Full wwPDB EM Validation Report

Sep 8, 2025 – 08:41 PM JST

PDB ID	:	7EYD / pdb_00007eyd
EMDB ID	:	EMD-31381
Title	:	Cryo-EM structure of cyanobacterial phycobilisome from Anabaena sp. PCC 7120
Authors	:	Zheng, L.; Zheng, Z.; Li, X.; Wang, G.; Zhang, K.; Wei, P.; Zhao, J.; Gao, N.
Deposited on	:	2021-05-30
Resolution	:	3.90 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

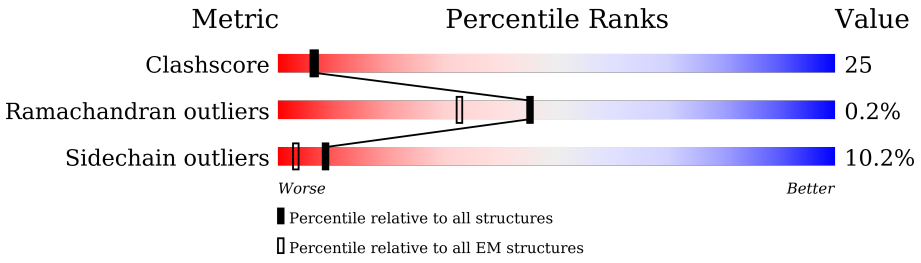
EMDB validation analysis	:	0.0.1.dev126
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4-5-2 with Phenix2.0rc1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)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

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.90 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A1	247	82% 44% 39% · 14%
1	A4	247	78% 43% 41% · 14%
2	B1	163	95% 68% 29% ··
2	B2	163	27% 64% 33% ··
2	B3	163	99% 64% 33% ··
2	B4	163	91% 66% 31% ··
2	B5	163	72% 74% 22% ··
2	B6	163	28% 66% 31% ··

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Mol	Chain	Length	Quality of chain
2	B7	163	99% 64% 33%
2	BA	163	72% 74% 22%
2	D1	163	98% 71% 27%
2	D2	163	77% 69% 28%
2	D3	163	99% 68% 29%
2	D4	163	96% 69% 28%
2	D5	163	77% 73% 25%
2	D6	163	71% 70% 27%
2	D7	163	99% 69% 28%
2	DA	163	86% 73% 25%
2	F1	163	99% 72% 26%
2	F2	163	58% 72% 25%
2	F3	163	99% 72% 25%
2	F4	163	99% 69% 28%
2	F5	163	60% 70% 26%
2	F6	163	49% 72% 25%
2	F7	163	99% 71% 26%
2	FA	163	65% 69% 26%
2	H1	163	98% 74% 23%
2	H2	163	71% 71% 25%
2	H3	163	99% 68% 28%
2	H4	163	96% 73% 25%
2	H5	163	77% 72% 25%
2	H6	163	66% 69% 27%
2	H7	163	99% 69% 26%

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Mol	Chain	Length	Quality of chain
2	HA	163	82% 74% 23%
2	J1	163	99% 67% 30%
2	J2	163	64% 71% 26%
2	J3	163	99% 69% 28%
2	J4	163	99% 68% 29%
2	J5	163	77% 74% 23%
2	J6	163	66% 73% 24%
2	J7	163	99% 72% 25%
2	JA	163	80% 77% 20%
2	L1	163	97% 69% 29%
2	L2	163	53% 66% 29% 5%
2	L3	163	99% 65% 30%
2	L4	163	98% 69% 29%
2	L5	163	71% 75% 20%
2	L6	163	48% 64% 31% 5%
2	L7	163	99% 66% 29%
2	LA	163	79% 72% 23%
2	O1	163	99% 74% 25%
2	O2	163	95% 73% 22%
2	O4	163	99% 75% 23%
2	O5	163	94% 75% 22%
2	O6	163	96% 71% 25%
2	OA	163	97% 74% 23%
2	Q1	163	99% 73% 25%
2	Q2	163	92% 72% 24%

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Mol	Chain	Length	Quality of chain
2	Q4	163	99% 73% 24%
2	Q5	163	95% 74% 23%
2	Q6	163	84% 71% 25%
2	QA	163	96% 74% 22%
2	S1	163	99% 75% 21%
2	S2	163	90% 68% 27%
2	S4	163	99% 76% 21%
2	S5	163	97% 74% 22%
2	S6	163	90% 68% 27%
2	SA	163	97% 76% 20%
2	U1	163	99% 74% 24%
2	U2	163	93% 69% 28%
2	U4	163	99% 75% 22%
2	U5	163	97% 75% 23%
2	U6	163	94% 71% 27%
2	UA	163	98% 74% 24%
2	W1	163	99% 71% 26%
2	W2	163	98% 71% 26%
2	W4	163	99% 71% 26%
2	W5	163	98% 75% 21%
2	W6	163	95% 69% 28%
2	WA	163	99% 75% 21%
2	Y1	163	99% 75% 23%
2	Y2	163	96% 72% 25%
2	Y4	163	99% 75% 23%

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Mol	Chain	Length	Quality of chain
2	Y5	163	98% 75% 21%
2	Y6	163	94% 72% 25%
2	YA	163	99% 74% 23%
3	C1	173	96% 73% 24%
3	C2	173	47% 62% 32% 5%
3	C3	173	98% 62% 33%
3	C4	173	95% 72% 24%
3	C5	173	69% 62% 32%
3	C6	173	45% 62% 33%
3	C7	173	99% 61% 33% 5%
3	CA	173	79% 62% 32%
3	E1	173	99% 73% 23%
3	E2	173	74% 68% 25% 7%
3	E3	173	100% 68% 26% 6%
3	E4	173	95% 73% 23%
3	E5	173	71% 63% 31%
3	E6	173	60% 68% 25% 6%
3	E7	173	100% 68% 25% 6%
3	EA	173	77% 64% 31%
3	G1	173	97% 72% 24%
3	G2	173	44% 62% 33% 5%
3	G3	173	100% 64% 31% 5%
3	G4	173	90% 71% 25%
3	G5	173	53% 61% 32% 5%
3	G6	173	36% 64% 32% 5%

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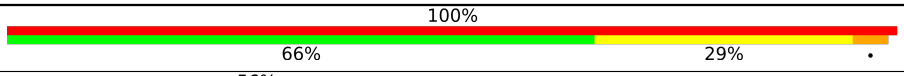
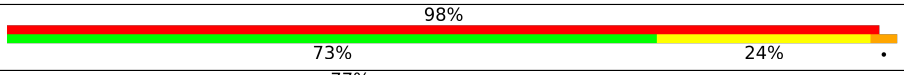
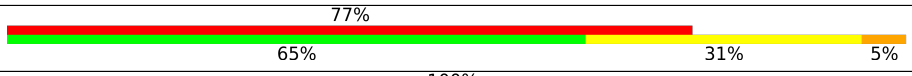
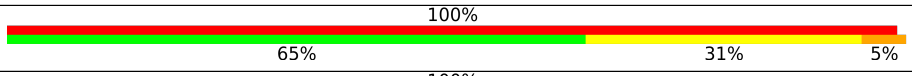
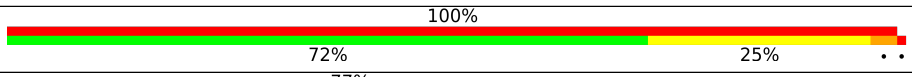
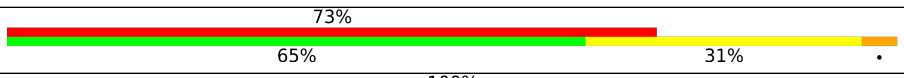
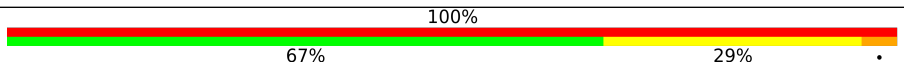
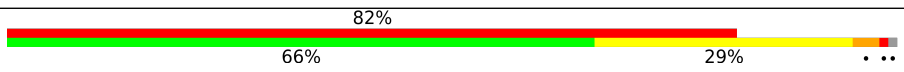
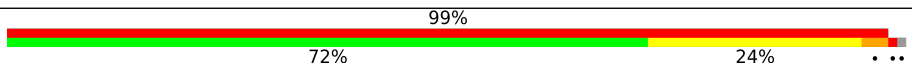
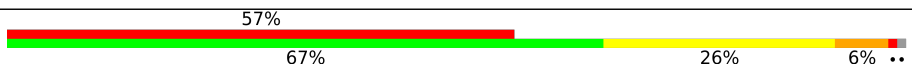
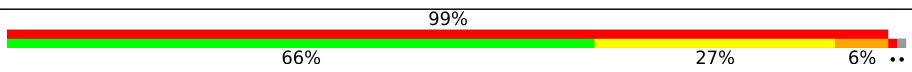
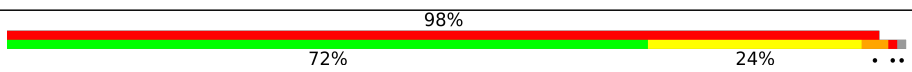
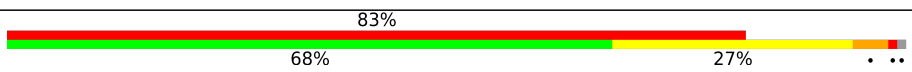
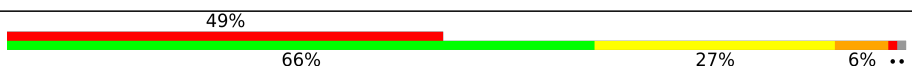
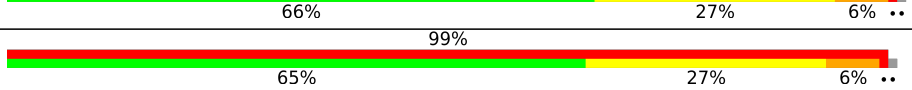
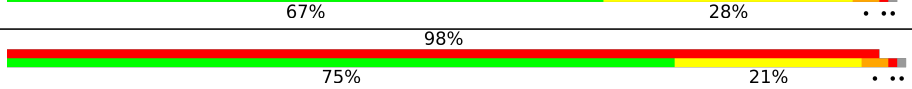
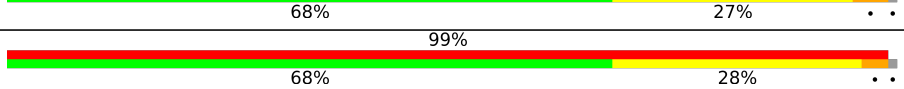
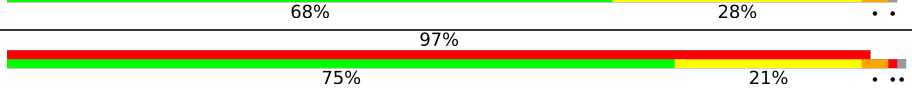
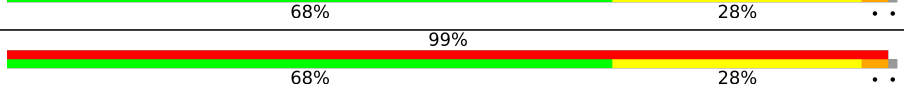
Mol	Chain	Length	Quality of chain
3	G7	173	
3	GA	173	
3	I1	173	
3	I2	173	
3	I3	173	
3	I4	173	
3	I5	173	
3	I6	173	
3	I7	173	
3	IA	173	
3	K1	173	
3	K2	173	
3	K3	173	
3	K4	173	
3	K5	173	
3	K6	173	
3	K7	173	
3	KA	173	
3	M1	173	
3	M2	173	
3	M3	173	
3	M4	173	
3	M5	173	
3	M6	173	
3	M7	173	

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Mol	Chain	Length	Quality of chain
3	MA	173	80% 62% 32%
3	P1	173	99% 76% 20%
3	P2	173	91% 65% 27% 7%
3	P4	173	99% 76% 21%
3	P5	173	91% 65% 30%
3	P6	173	87% 64% 28% 7%
3	PA	173	97% 64% 31%
3	R1	173	99% 72% 25%
3	R2	173	86% 64% 31% 5%
3	R4	173	99% 74% 23%
3	R5	173	93% 65% 28% 5%
3	R6	173	79% 64% 31% 5%
3	RA	173	93% 65% 29% 5%
3	T1	173	99% 72% 24%
3	T2	173	86% 66% 28% 5%
3	T4	173	99% 73% 24%
3	T5	173	94% 61% 34%
3	T6	173	82% 65% 29% 5%
3	TA	173	94% 63% 31%
3	V1	173	99% 77% 19%
3	V2	173	98% 68% 28%
3	V4	173	99% 76% 20%
3	V5	173	98% 66% 29%
3	V6	173	97% 68% 28%
3	VA	173	99% 66% 28%

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Mol	Chain	Length	Quality of chain
3	X1	173	99% 74% 23%
3	X2	173	94% 66% 28% 5%
3	X4	173	99% 75% 23%
3	X5	173	99% 66% 27% 6%
3	X6	173	95% 66% 27% 6%
3	XA	173	98% 64% 29% 5%
3	Z1	173	99% 76% 21%
3	Z2	173	95% 63% 32%
3	Z4	173	99% 77% 20%
3	Z5	173	97% 65% 29%
3	Z6	173	94% 64% 32%
3	ZA	173	99% 66% 28% 5%
4	N1	286	99% 69% 28%
4	N2	286	71% 64% 33%
4	N3	286	20% 9% 10% 80%
4	N4	286	99% 69% 27%
4	N5	286	83% 71% 28%
4	N6	286	65% 66% 32%
4	N7	286	20% 9% 10% 80%
4	NA	286	88% 70% 28%
5	A2	253	19% 62% 32%
5	A5	253	42% 48% 42% 6%
5	A6	253	17% 63% 32%
5	AA	253	45% 51% 40% 6%
6	A3	279	49% 16% 29% 51%

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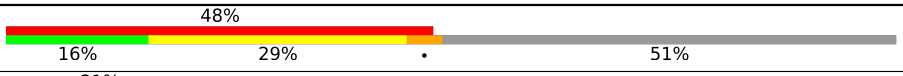
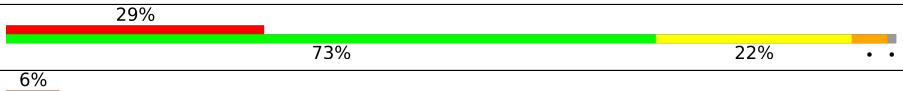
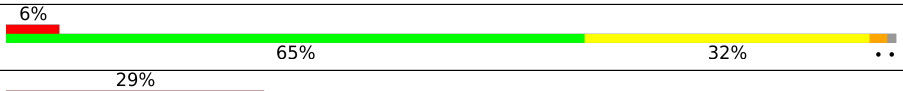
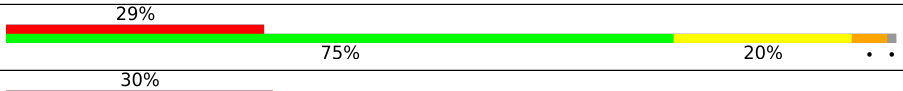
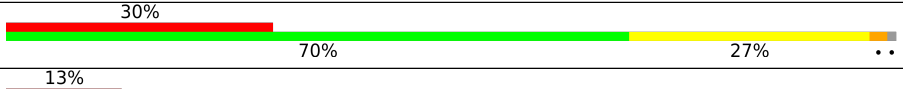
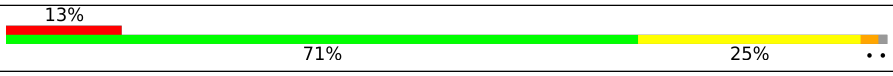
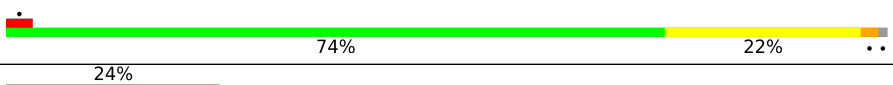
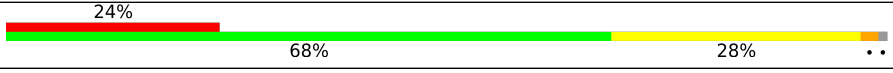
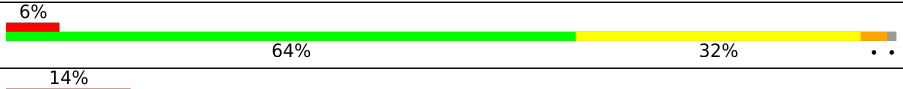
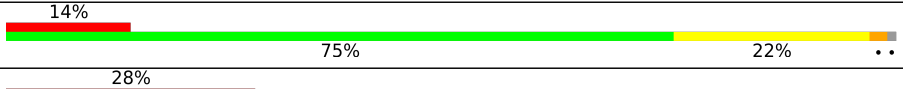
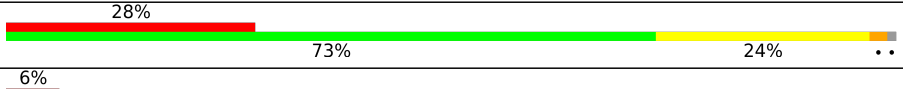
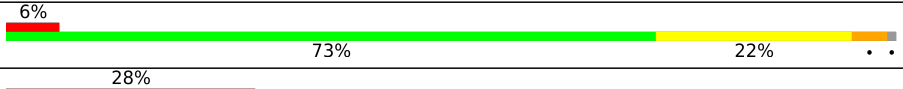
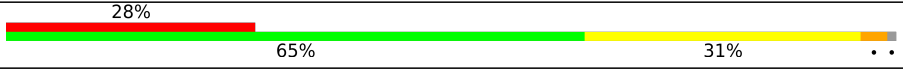
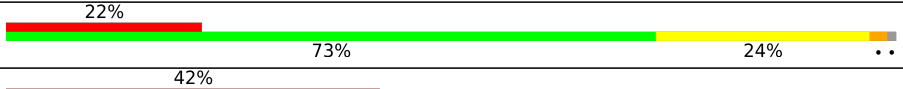
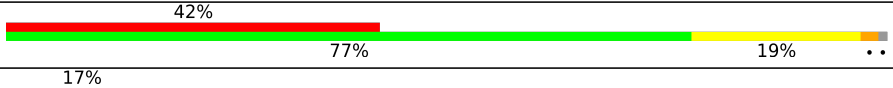
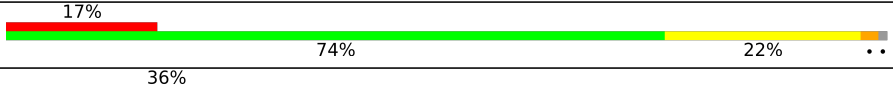
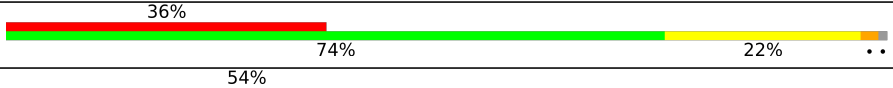
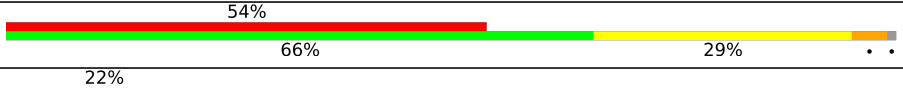
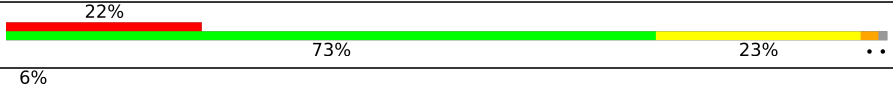
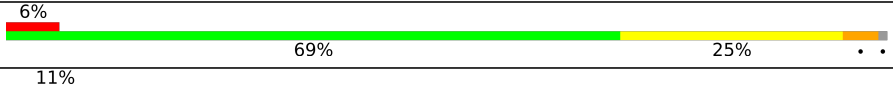
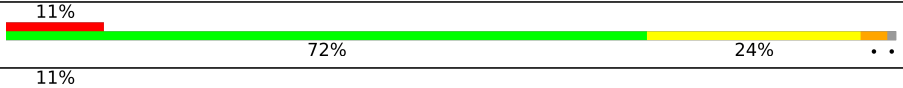
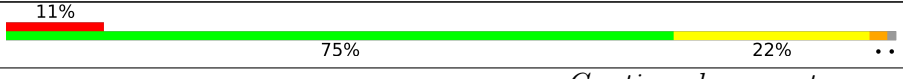
Mol	Chain	Length	Quality of chain
6	A7	279	
7	A8	161	
7	A9	161	
7	C8	161	
7	C9	161	
7	E8	161	
7	E9	161	
7	G9	161	
7	H8	161	
7	I9	161	
7	J8	161	
7	K9	161	
7	L8	161	
7	N9	161	
7	O8	161	
7	P9	161	
7	Q8	161	
7	R9	161	
7	S8	161	
7	T9	161	
7	V8	161	
7	X8	161	
7	X9	161	
7	Z8	161	
7	Z9	161	

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Mol	Chain	Length	Quality of chain
7	b9	161	7% 75% 21%
7	c8	161	55% 65% 30%
7	d9	161	7% 70% 26%
7	e8	161	25% 73% 23%
7	f9	161	5% 73% 23%
7	g8	161	9% 73% 24%
7	i9	161	54% 75% 21%
7	j8	161	25% 73% 24%
7	k9	161	42% 71% 25%
7	l8	161	32% 75% 22%
7	n8	161	9% 66% 30%
7	o9	161	15% 72% 24%
7	p8	161	28% 72% 25%
7	q9	161	10% 71% 25%
7	r8	161	37% 74% 22%
7	s9	161	7% 76% 20%
7	t8	161	6% 68% 27%
7	u9	161	18% 72% 24%
7	w9	161	7% 68% 28%
7	y9	161	10% 75% 21%
8	B8	162	16% 77% 19%
8	B9	162	27% 82% 15%
8	D8	162	12% 79% 17%
8	D9	162	23% 81% 15%
8	F8	162	18% 80% 16%

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Mol	Chain	Length	Quality of chain
8	F9	162	18% 77% 20%
8	H9	162	81% 15%
8	I8	162	19% 78% 18%
8	J9	162	5% 80% 15%
8	K8	162	13% 80% 15%
8	L9	162	9% 79% 17%
8	M8	162	20% 80% 15%
8	M9	162	12% 77% 20%
8	O9	162	81% 15%
8	P8	162	27% 77% 18%
8	R8	162	29% 81% 15%
8	S9	162	36% 79% 18%
8	T8	162	20% 79% 17%
8	U9	162	36% 81% 14%
8	W8	162	42% 78% 18%
8	W9	162	19% 81% 16%
8	Y8	162	9% 84% 12%
8	Y9	162	82% 15%
8	a8	162	21% 80% 16%
8	a9	162	8% 81% 16%
8	c9	162	81% 16%
8	d8	162	39% 77% 20%
8	e9	162	80% 17%
8	f8	162	16% 82% 13%
8	h8	162	24% 81% 15%

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Mol	Chain	Length	Quality of chain
8	h9	162	8% 78% 19%
8	j9	162	35% 81% 16%
8	k8	162	26% 80% 16%
8	l9	162	35% 78% 19%
8	m8	162	12% 80% 17%
8	n9	162	25% 80% 17%
8	o8	162	10% 75% 20%
8	p9	162	7% 81% 15%
8	q8	162	22% 78% 18%
8	r9	162	7% 77% 20%
8	s8	162	10% 80% 15%
8	t9	162	5% 77% 20%
8	u8	162	9% 81% 14%
8	v9	162	7% 81% 16%
8	x9	162	6% 77% 20%
8	z9	162	6% 80% 17%
9	29	68	15% 57% 34%
9	39	68	16% 63% 26% 6%
9	49	68	18% 53% 32% 10%
9	G8	68	15% 53% 38%
9	N8	68	15% 56% 34%
9	U8	68	18% 46% 46%
9	b8	68	26% 56% 37%
9	i8	68	29% 50% 41%
10	09	1132	7% 68% 24% 7%

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Mol	Chain	Length	Quality of chain
10	19	1132	6% 67% 24% 8%
11	Q9	169	82% 17%
11	g9	169	7% 82% 17%
12	V9	161	26% 79% 18%
12	m9	161	35% 77% 20%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CYC	09	1201	-	-	X	-
13	CYC	19	1201	-	-	X	-
13	CYC	A3	301	-	-	X	-
13	CYC	A5	302	-	-	X	-
13	CYC	A5	303	-	-	X	-
13	CYC	A5	304	-	-	X	-
13	CYC	A7	301	-	-	X	-
13	CYC	AA	302	-	-	X	-
13	CYC	AA	303	-	-	X	-
13	CYC	AA	304	-	-	X	-
13	CYC	B2	1001	-	-	X	-
13	CYC	B3	1001	-	-	X	-
13	CYC	B6	1001	-	-	X	-
13	CYC	B7	1001	-	-	X	-
13	CYC	B8	1001	-	-	X	-
13	CYC	C1	302	-	-	X	-
13	CYC	C2	201	-	-	X	-
13	CYC	C2	202	-	-	X	-
13	CYC	C3	201	-	-	X	-
13	CYC	C4	302	-	-	X	-
13	CYC	C5	201	-	-	X	-
13	CYC	C6	201	-	-	X	-
13	CYC	C6	202	-	-	X	-
13	CYC	C7	201	-	-	X	-
13	CYC	CA	201	-	-	X	-
13	CYC	D1	1001	-	-	X	-
13	CYC	D4	1001	-	-	X	-
13	CYC	D8	1001	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CYC	D9	1001	-	-	X	-
13	CYC	E1	202	-	-	X	-
13	CYC	E2	201	-	-	X	-
13	CYC	E2	202	-	-	X	-
13	CYC	E3	201	-	-	X	-
13	CYC	E3	202	-	-	X	-
13	CYC	E4	202	-	-	X	-
13	CYC	E5	201	-	-	X	-
13	CYC	E6	201	-	-	X	-
13	CYC	E6	202	-	-	X	-
13	CYC	E7	201	-	-	X	-
13	CYC	E7	202	-	-	X	-
13	CYC	EA	201	-	-	X	-
13	CYC	F8	1001	-	-	X	-
13	CYC	G1	201	-	-	X	-
13	CYC	G1	202	-	-	X	-
13	CYC	G2	201	-	-	X	-
13	CYC	G3	202	-	-	X	-
13	CYC	G4	201	-	-	X	-
13	CYC	G4	202	-	-	X	-
13	CYC	G5	201	-	-	X	-
13	CYC	G6	201	-	-	X	-
13	CYC	G7	202	-	-	X	-
13	CYC	GA	1002	-	-	X	-
13	CYC	I1	202	-	-	X	-
13	CYC	I2	201	-	-	X	-
13	CYC	I2	202	-	-	X	-
13	CYC	I3	201	-	-	X	-
13	CYC	I3	202	-	-	X	-
13	CYC	I4	202	-	-	X	-
13	CYC	I5	202	-	-	X	-
13	CYC	I6	201	-	-	X	-
13	CYC	I6	202	-	-	X	-
13	CYC	I7	201	-	-	X	-
13	CYC	I7	202	-	-	X	-
13	CYC	I8	1001	-	-	X	-
13	CYC	IA	202	-	-	X	-
13	CYC	J1	1001	-	-	X	-
13	CYC	J2	1001	-	-	X	-
13	CYC	J3	1001	-	-	X	-
13	CYC	J4	1001	-	-	X	-
13	CYC	J6	1001	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CYC	J7	1001	-	-	X	-
13	CYC	K1	201	-	-	X	-
13	CYC	K1	202	-	-	X	-
13	CYC	K2	201	-	-	X	-
13	CYC	K2	202	-	-	X	-
13	CYC	K3	201	-	-	X	-
13	CYC	K3	202	-	-	X	-
13	CYC	K4	201	-	-	X	-
13	CYC	K4	202	-	-	X	-
13	CYC	K5	201	-	-	X	-
13	CYC	K6	201	-	-	X	-
13	CYC	K6	202	-	-	X	-
13	CYC	K7	201	-	-	X	-
13	CYC	K7	202	-	-	X	-
13	CYC	K8	1001	-	-	X	-
13	CYC	KA	201	-	-	X	-
13	CYC	M1	201	-	-	X	-
13	CYC	M1	202	-	-	X	-
13	CYC	M2	201	-	-	X	-
13	CYC	M3	201	-	-	X	-
13	CYC	M4	201	-	-	X	-
13	CYC	M4	202	-	-	X	-
13	CYC	M5	1002	-	-	X	-
13	CYC	M5	1003	-	-	X	-
13	CYC	M6	201	-	-	X	-
13	CYC	M7	201	-	-	X	-
13	CYC	M8	1001	-	-	X	-
13	CYC	MA	1002	-	-	X	-
13	CYC	MA	1003	-	-	X	-
13	CYC	N2	301	-	-	X	-
13	CYC	N3	301	-	-	X	-
13	CYC	N6	301	-	-	X	-
13	CYC	N7	301	-	-	X	-
13	CYC	O1	1001	-	-	X	-
13	CYC	O4	1001	-	-	X	-
13	CYC	P1	201	-	-	X	-
13	CYC	P1	202	-	-	X	-
13	CYC	P2	201	-	-	X	-
13	CYC	P4	201	-	-	X	-
13	CYC	P4	202	-	-	X	-
13	CYC	P5	201	-	-	X	-
13	CYC	P5	202	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CYC	P6	201	-	-	X	-
13	CYC	P8	1001	-	-	X	-
13	CYC	PA	201	-	-	X	-
13	CYC	PA	202	-	-	X	-
13	CYC	Q1	202	-	-	X	-
13	CYC	Q2	201	-	-	X	-
13	CYC	Q4	202	-	-	X	-
13	CYC	Q6	201	-	-	X	-
13	CYC	R2	1001	-	-	X	-
13	CYC	R5	201	-	-	X	-
13	CYC	R6	1001	-	-	X	-
13	CYC	R8	1001	-	-	X	-
13	CYC	RA	201	-	-	X	-
13	CYC	S2	1001	-	-	X	-
13	CYC	S4	1001	-	-	X	-
13	CYC	S6	1001	-	-	X	-
13	CYC	T1	201	-	-	X	-
13	CYC	T1	202	-	-	X	-
13	CYC	T2	201	-	-	X	-
13	CYC	T4	201	-	-	X	-
13	CYC	T4	202	-	-	X	-
13	CYC	T5	201	-	-	X	-
13	CYC	T5	202	-	-	X	-
13	CYC	T6	201	-	-	X	-
13	CYC	T8	1001	-	-	X	-
13	CYC	TA	201	-	-	X	-
13	CYC	TA	202	-	-	X	-
13	CYC	U2	201	-	-	X	-
13	CYC	U2	202	-	-	X	-
13	CYC	U6	201	-	-	X	-
13	CYC	U6	202	-	-	X	-
13	CYC	V1	201	-	-	X	-
13	CYC	V1	202	-	-	X	-
13	CYC	V2	201	-	-	X	-
13	CYC	V2	202	-	-	X	-
13	CYC	V4	201	-	-	X	-
13	CYC	V4	202	-	-	X	-
13	CYC	V5	201	-	-	X	-
13	CYC	V5	202	-	-	X	-
13	CYC	V6	201	-	-	X	-
13	CYC	V6	202	-	-	X	-
13	CYC	VA	201	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CYC	VA	202	-	-	X	-
13	CYC	W1	1001	-	-	X	-
13	CYC	W2	201	-	-	X	-
13	CYC	W2	202	-	-	X	-
13	CYC	W2	203	-	-	X	-
13	CYC	W4	1001	-	-	X	-
13	CYC	W6	201	-	-	X	-
13	CYC	W6	202	-	-	X	-
13	CYC	W8	1001	-	-	X	-
13	CYC	X1	201	-	-	X	-
13	CYC	X1	202	-	-	X	-
13	CYC	X4	202	-	-	X	-
13	CYC	X5	202	-	-	X	-
13	CYC	X6	202	-	-	X	-
13	CYC	XA	202	-	-	X	-
13	CYC	Y2	201	-	-	X	-
13	CYC	Y6	201	-	-	X	-
13	CYC	Y8	1001	-	-	X	-
13	CYC	Z1	201	-	-	X	-
13	CYC	Z2	201	-	-	X	-
13	CYC	Z2	202	-	-	X	-
13	CYC	Z4	201	-	-	X	-
13	CYC	Z5	202	-	-	X	-
13	CYC	Z6	201	-	-	X	-
13	CYC	Z6	202	-	-	X	-
13	CYC	ZA	202	-	-	X	-
13	CYC	b8	1001	-	-	X	-
13	CYC	d8	1001	-	-	X	-
13	CYC	f8	1001	-	-	X	-
13	CYC	h8	1001	-	-	X	-
13	CYC	k8	1001	-	-	X	-
13	CYC	o8	1001	-	-	X	-
13	CYC	q8	1001	-	-	X	-
13	CYC	s8	1001	-	-	X	-

2 Entry composition (i)

There are 13 unique types of molecules in this entry. The entry contains 387586 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Phycobilisome rod-core linker polypeptide CpcG2.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	A1	213	Total	C	N	O	0	0
			1774	1135	308	331		
1	A4	213	Total	C	N	O	0	0
			1774	1135	308	331		

- Molecule 2 is a protein called C-phycocyanin alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	D1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	F1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	H1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	J1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	L1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	O1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	Q1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	S1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	U1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	W1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	Y1	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	B2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	D2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	F2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	H2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	J2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	L2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	O2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	Q2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	S2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	U2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	W2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	Y2	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	B3	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	D3	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	F3	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	H3	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	J3	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	L3	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	B4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	D4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	F4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	H4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	J4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	L4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	O4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	Q4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	S4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	U4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	W4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	Y4	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	B5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	D5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	F5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	H5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	J5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	L5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	O5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	Q5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	S5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	U5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	W5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	Y5	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	B6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	D6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	F6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	H6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	J6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	L6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	O6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	Q6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	S6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	U6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	W6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	Y6	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	B7	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	D7	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	F7	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	H7	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	J7	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	L7	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	BA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	DA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	FA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	HA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	JA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	LA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	OA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	QA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	SA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	UA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	WA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		
2	YA	162	Total	C	N	O	S	0	0
			1223	765	217	240	1		

- Molecule 3 is a protein called C-phycocyanin beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C1	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	E1	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	G1	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	I1	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	K1	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	M1	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	P1	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	R1	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	T1	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	V1	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	X1	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Z1	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	C2	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	E2	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	G2	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	I2	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	K2	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	M2	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	P2	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	R2	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	T2	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	V2	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	X2	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	Z2	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	C3	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	E3	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	G3	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	I3	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	K3	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	M3	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	C4	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	E4	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	G4	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	I4	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	K4	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	M4	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	P4	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	R4	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	T4	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	V4	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	X4	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	Z4	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	C5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	E5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	G5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	I5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	K5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	M5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	P5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	R5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	T5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	V5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	X5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Z5	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	C6	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	E6	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	G6	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	I6	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	K6	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	M6	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	P6	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	R6	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	T6	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	V6	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	X6	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	Z6	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	C7	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	E7	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	G7	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	I7	173	Total	C	N	O	S	0	0
			1286	793	230	256	7		
3	K7	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	M7	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	CA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	EA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	GA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	IA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	KA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	MA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	PA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	RA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	TA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	VA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	XA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		
3	ZA	172	Total	C	N	O	S	0	0
			1278	788	229	255	6		

- Molecule 4 is a protein called Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-asso ciated, rod.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	N1	284	Total	C	N	O	0	0
			2265	1425	407	433		
4	N2	284	Total	C	N	O	0	0
			2265	1425	407	433		
4	N3	57	Total	C	N	O	0	0
			444	278	83	83		
4	N4	284	Total	C	N	O	0	0
			2265	1425	407	433		
4	N5	284	Total	C	N	O	0	0
			2265	1425	407	433		
4	N6	284	Total	C	N	O	0	0
			2265	1425	407	433		
4	N7	57	Total	C	N	O	0	0
			444	278	83	83		
4	NA	284	Total	C	N	O	0	0
			2265	1425	407	433		

- Molecule 5 is a protein called Phycobilisome rod-core linker polypeptide CpcG4.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	A2	249	Total	C	N	O	S	0	0
			2038	1285	364	388	1		
5	A5	237	Total	C	N	O	S	0	0
			1944	1228	349	366	1		
5	A6	249	Total	C	N	O	S	0	0
			2038	1285	364	388	1		
5	AA	237	Total	C	N	O	S	0	0
			1944	1228	349	366	1		

- Molecule 6 is a protein called Phycobilisome rod-core linker polypeptide CpcG1.

Mol	Chain	Residues	Atoms				AltConf	Trace
6	A3	138	Total	C	N	O	0	0
			1127	710	203	214		
6	A7	138	Total	C	N	O	0	0
			1127	710	203	214		

- Molecule 7 is a protein called Allophycocyanin subunit alpha 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	A8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	C8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	E8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	H8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	J8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	L8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	O8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	Q8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	S8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	V8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	X8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	Z8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	c8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	e8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	g8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	j8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	l8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	n8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	p8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	r8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	t8	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	A9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	C9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	E9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	G9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	I9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	K9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	N9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	P9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	R9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	T9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	X9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	Z9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	b9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	d9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	f9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	i9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	k9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	o9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	q9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	s9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	u9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	w9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		
7	y9	159	Total	C	N	O	S	0	0
			1204	754	210	237	3		

- Molecule 8 is a protein called Allophycocyanin subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	B8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	D8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	F8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	I8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	K8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	M8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	P8	159	Total	C	N	O	S	0	0
			1192	753	199	236	4		
8	R8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	T8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	W8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	Y8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	a8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	d8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	f8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	h8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	k8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	m8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	o8	159	Total	C	N	O	S	0	0
			1192	753	199	236	4		
8	q8	159	Total	C	N	O	S	0	0
			1192	753	199	236	4		
8	s8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	u8	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	B9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	D9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	F9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	H9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	J9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	L9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	M9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	O9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	S9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	U9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	W9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	Y9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	a9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	c9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	e9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	h9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	j9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	l9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	n9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	p9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	r9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	t9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	v9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	x9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		
8	z9	160	Total	C	N	O	S	0	0
			1201	758	201	238	4		

- Molecule 9 is a protein called Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core.

Mol	Chain	Residues	Atoms				AltConf	Trace
9	G8	65	Total	C	N	O	0	0
			529	337	99	93		
9	N8	65	Total	C	N	O	0	0
			529	337	99	93		

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Mol	Chain	Residues	Atoms				AltConf	Trace
9	U8	65	Total 529	C 337	N 99	O 93	0	0
9	b8	65	Total 529	C 337	N 99	O 93	0	0
9	i8	65	Total 529	C 337	N 99	O 93	0	0
9	29	65	Total 529	C 337	N 99	O 93	0	0
9	39	65	Total 529	C 337	N 99	O 93	0	0
9	49	65	Total 529	C 337	N 99	O 93	0	0

- Molecule 10 is a protein called Phycobiliprotein ApcE.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	09	1049	Total 8352	C 5315	N 1471	O 1558	S 8	0	0
10	19	1043	Total 8299	C 5285	N 1459	O 1547	S 8	0	0

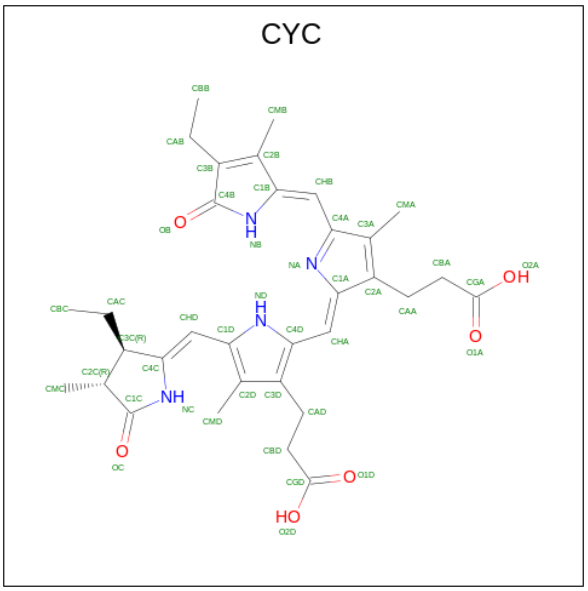
- Molecule 11 is a protein called Allophycocyanin subunit beta-18.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	Q9	168	Total 1304	C 817	N 232	O 253	S 2	0	0
11	g9	169	Total 1312	C 822	N 233	O 254	S 3	0	0

- Molecule 12 is a protein called Allophycocyanin subunit alpha-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	V9	160	Total 1244	C 793	N 210	O 237	S 4	0	0
12	m9	160	Total 1244	C 793	N 210	O 237	S 4	0	0

- Molecule 13 is PHYCOCYANOBILIN (CCD ID: CYC) (formula: $C_{33}H_{40}N_4O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
13	B1	1	Total	C	N	O	0
			43	33	4	6	
13	C1	1	Total	C	N	O	0
			43	33	4	6	
13	C1	1	Total	C	N	O	0
			43	33	4	6	
13	D1	1	Total	C	N	O	0
			43	33	4	6	
13	E1	1	Total	C	N	O	0
			43	33	4	6	
13	E1	1	Total	C	N	O	0
			43	33	4	6	
13	F1	1	Total	C	N	O	0
			43	33	4	6	
13	G1	1	Total	C	N	O	0
			43	33	4	6	
13	G1	1	Total	C	N	O	0
			43	33	4	6	
13	H1	1	Total	C	N	O	0
			43	33	4	6	
13	I1	1	Total	C	N	O	0
			43	33	4	6	
13	I1	1	Total	C	N	O	0
			43	33	4	6	
13	J1	1	Total	C	N	O	0
			43	33	4	6	
13	K1	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	K1	1	Total	C	N	O	0
			43	33	4	6	
13	L1	1	Total	C	N	O	0
			43	33	4	6	
13	M1	1	Total	C	N	O	0
			43	33	4	6	
13	M1	1	Total	C	N	O	0
			43	33	4	6	
13	O1	1	Total	C	N	O	0
			43	33	4	6	
13	P1	1	Total	C	N	O	0
			43	33	4	6	
13	P1	1	Total	C	N	O	0
			43	33	4	6	
13	Q1	1	Total	C	N	O	0
			43	33	4	6	
13	Q1	1	Total	C	N	O	0
			43	33	4	6	
13	R1	1	Total	C	N	O	0
			43	33	4	6	
13	S1	1	Total	C	N	O	0
			43	33	4	6	
13	T1	1	Total	C	N	O	0
			43	33	4	6	
13	T1	1	Total	C	N	O	0
			43	33	4	6	
13	U1	1	Total	C	N	O	0
			43	33	4	6	
13	V1	1	Total	C	N	O	0
			43	33	4	6	
13	V1	1	Total	C	N	O	0
			43	33	4	6	
13	W1	1	Total	C	N	O	0
			43	33	4	6	
13	X1	1	Total	C	N	O	0
			43	33	4	6	
13	X1	1	Total	C	N	O	0
			43	33	4	6	
13	Y1	1	Total	C	N	O	0
			43	33	4	6	
13	Z1	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	Z1	1	Total	C	N	O	0
			43	33	4	6	
13	B2	1	Total	C	N	O	0
			43	33	4	6	
13	C2	1	Total	C	N	O	0
			43	33	4	6	
13	C2	1	Total	C	N	O	0
			43	33	4	6	
13	D2	1	Total	C	N	O	0
			43	33	4	6	
13	E2	1	Total	C	N	O	0
			43	33	4	6	
13	E2	1	Total	C	N	O	0
			43	33	4	6	
13	F2	1	Total	C	N	O	0
			43	33	4	6	
13	G2	1	Total	C	N	O	0
			43	33	4	6	
13	G2	1	Total	C	N	O	0
			43	33	4	6	
13	H2	1	Total	C	N	O	0
			43	33	4	6	
13	I2	1	Total	C	N	O	0
			43	33	4	6	
13	I2	1	Total	C	N	O	0
			43	33	4	6	
13	J2	1	Total	C	N	O	0
			43	33	4	6	
13	K2	1	Total	C	N	O	0
			43	33	4	6	
13	K2	1	Total	C	N	O	0
			43	33	4	6	
13	L2	1	Total	C	N	O	0
			43	33	4	6	
13	M2	1	Total	C	N	O	0
			43	33	4	6	
13	N2	1	Total	C	N	O	0
			43	33	4	6	
13	N2	1	Total	C	N	O	0
			43	33	4	6	
13	O2	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	P2	1	Total	C	N	O	0
			43	33	4	6	
13	Q2	1	Total	C	N	O	0
			43	33	4	6	
13	R2	1	Total	C	N	O	0
			43	33	4	6	
13	S2	1	Total	C	N	O	0
			43	33	4	6	
13	T2	1	Total	C	N	O	0
			43	33	4	6	
13	U2	1	Total	C	N	O	0
			43	33	4	6	
13	U2	1	Total	C	N	O	0
			43	33	4	6	
13	V2	1	Total	C	N	O	0
			43	33	4	6	
13	V2	1	Total	C	N	O	0
			43	33	4	6	
13	W2	1	Total	C	N	O	0
			43	33	4	6	
13	W2	1	Total	C	N	O	0
			43	33	4	6	
13	W2	1	Total	C	N	O	0
			43	33	4	6	
13	X2	1	Total	C	N	O	0
			43	33	4	6	
13	Y2	1	Total	C	N	O	0
			43	33	4	6	
13	Z2	1	Total	C	N	O	0
			43	33	4	6	
13	Z2	1	Total	C	N	O	0
			43	33	4	6	
13	A3	1	Total	C	N	O	0
			43	33	4	6	
13	B3	1	Total	C	N	O	0
			43	33	4	6	
13	C3	1	Total	C	N	O	0
			43	33	4	6	
13	D3	1	Total	C	N	O	0
			43	33	4	6	
13	E3	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	E3	1	Total	C	N	O	0
			43	33	4	6	
13	F3	1	Total	C	N	O	0
			43	33	4	6	
13	G3	1	Total	C	N	O	0
			43	33	4	6	
13	G3	1	Total	C	N	O	0
			43	33	4	6	
13	H3	1	Total	C	N	O	0
			43	33	4	6	
13	I3	1	Total	C	N	O	0
			43	33	4	6	
13	I3	1	Total	C	N	O	0
			43	33	4	6	
13	J3	1	Total	C	N	O	0
			43	33	4	6	
13	K3	1	Total	C	N	O	0
			43	33	4	6	
13	K3	1	Total	C	N	O	0
			43	33	4	6	
13	L3	1	Total	C	N	O	0
			43	33	4	6	
13	M3	1	Total	C	N	O	0
			43	33	4	6	
13	N3	1	Total	C	N	O	0
			43	33	4	6	
13	B4	1	Total	C	N	O	0
			43	33	4	6	
13	C4	1	Total	C	N	O	0
			43	33	4	6	
13	C4	1	Total	C	N	O	0
			43	33	4	6	
13	D4	1	Total	C	N	O	0
			43	33	4	6	
13	E4	1	Total	C	N	O	0
			43	33	4	6	
13	E4	1	Total	C	N	O	0
			43	33	4	6	
13	F4	1	Total	C	N	O	0
			43	33	4	6	
13	G4	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	G4	1	Total	C	N	O	0
			43	33	4	6	
13	H4	1	Total	C	N	O	0
			43	33	4	6	
13	I4	1	Total	C	N	O	0
			43	33	4	6	
13	I4	1	Total	C	N	O	0
			43	33	4	6	
13	J4	1	Total	C	N	O	0
			43	33	4	6	
13	K4	1	Total	C	N	O	0
			43	33	4	6	
13	K4	1	Total	C	N	O	0
			43	33	4	6	
13	L4	1	Total	C	N	O	0
			43	33	4	6	
13	M4	1	Total	C	N	O	0
			43	33	4	6	
13	M4	1	Total	C	N	O	0
			43	33	4	6	
13	O4	1	Total	C	N	O	0
			43	33	4	6	
13	P4	1	Total	C	N	O	0
			43	33	4	6	
13	P4	1	Total	C	N	O	0
			43	33	4	6	
13	Q4	1	Total	C	N	O	0
			43	33	4	6	
13	Q4	1	Total	C	N	O	0
			43	33	4	6	
13	R4	1	Total	C	N	O	0
			43	33	4	6	
13	S4	1	Total	C	N	O	0
			43	33	4	6	
13	T4	1	Total	C	N	O	0
			43	33	4	6	
13	T4	1	Total	C	N	O	0
			43	33	4	6	
13	U4	1	Total	C	N	O	0
			43	33	4	6	
13	V4	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	V4	1	Total	C	N	O	0
			43	33	4	6	
13	W4	1	Total	C	N	O	0
			43	33	4	6	
13	X4	1	Total	C	N	O	0
			43	33	4	6	
13	X4	1	Total	C	N	O	0
			43	33	4	6	
13	Y4	1	Total	C	N	O	0
			43	33	4	6	
13	Z4	1	Total	C	N	O	0
			43	33	4	6	
13	Z4	1	Total	C	N	O	0
			43	33	4	6	
13	A5	1	Total	C	N	O	0
			43	33	4	6	
13	A5	1	Total	C	N	O	0
			43	33	4	6	
13	A5	1	Total	C	N	O	0
			43	33	4	6	
13	A5	1	Total	C	N	O	0
			43	33	4	6	
13	B5	1	Total	C	N	O	0
			43	33	4	6	
13	C5	1	Total	C	N	O	0
			43	33	4	6	
13	D5	1	Total	C	N	O	0
			43	33	4	6	
13	E5	1	Total	C	N	O	0
			43	33	4	6	
13	E5	1	Total	C	N	O	0
			43	33	4	6	
13	G5	1	Total	C	N	O	0
			43	33	4	6	
13	I5	1	Total	C	N	O	0
			43	33	4	6	
13	I5	1	Total	C	N	O	0
			43	33	4	6	
13	J5	1	Total	C	N	O	0
			43	33	4	6	
13	K5	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	L5	1	Total	C	N	O	0
			43	33	4	6	
13	M5	1	Total	C	N	O	0
			43	33	4	6	
13	M5	1	Total	C	N	O	0
			43	33	4	6	
13	M5	1	Total	C	N	O	0
			43	33	4	6	
13	N5	1	Total	C	N	O	0
			43	33	4	6	
13	O5	1	Total	C	N	O	0
			43	33	4	6	
13	P5	1	Total	C	N	O	0
			43	33	4	6	
13	P5	1	Total	C	N	O	0
			43	33	4	6	
13	P5	1	Total	C	N	O	0
			43	33	4	6	
13	R5	1	Total	C	N	O	0
			43	33	4	6	
13	S5	1	Total	C	N	O	0
			43	33	4	6	
13	T5	1	Total	C	N	O	0
			43	33	4	6	
13	T5	1	Total	C	N	O	0
			43	33	4	6	
13	U5	1	Total	C	N	O	0
			43	33	4	6	
13	V5	1	Total	C	N	O	0
			43	33	4	6	
13	V5	1	Total	C	N	O	0
			43	33	4	6	
13	W5	1	Total	C	N	O	0
			43	33	4	6	
13	X5	1	Total	C	N	O	0
			43	33	4	6	
13	X5	1	Total	C	N	O	0
			43	33	4	6	
13	Y5	1	Total	C	N	O	0
			43	33	4	6	
13	Z5	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	Z5	1	Total	C	N	O	0
			43	33	4	6	
13	B6	1	Total	C	N	O	0
			43	33	4	6	
13	C6	1	Total	C	N	O	0
			43	33	4	6	
13	C6	1	Total	C	N	O	0
			43	33	4	6	
13	D6	1	Total	C	N	O	0
			43	33	4	6	
13	E6	1	Total	C	N	O	0
			43	33	4	6	
13	E6	1	Total	C	N	O	0
			43	33	4	6	
13	F6	1	Total	C	N	O	0
			43	33	4	6	
13	G6	1	Total	C	N	O	0
			43	33	4	6	
13	G6	1	Total	C	N	O	0
			43	33	4	6	
13	H6	1	Total	C	N	O	0
			43	33	4	6	
13	I6	1	Total	C	N	O	0
			43	33	4	6	
13	I6	1	Total	C	N	O	0
			43	33	4	6	
13	J6	1	Total	C	N	O	0
			43	33	4	6	
13	K6	1	Total	C	N	O	0
			43	33	4	6	
13	K6	1	Total	C	N	O	0
			43	33	4	6	
13	L6	1	Total	C	N	O	0
			43	33	4	6	
13	M6	1	Total	C	N	O	0
			43	33	4	6	
13	N6	1	Total	C	N	O	0
			43	33	4	6	
13	N6	1	Total	C	N	O	0
			43	33	4	6	
13	O6	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	P6	1	Total	C	N	O	0
			43	33	4	6	
13	Q6	1	Total	C	N	O	0
			43	33	4	6	
13	R6	1	Total	C	N	O	0
			43	33	4	6	
13	S6	1	Total	C	N	O	0
			43	33	4	6	
13	T6	1	Total	C	N	O	0
			43	33	4	6	
13	U6	1	Total	C	N	O	0
			43	33	4	6	
13	U6	1	Total	C	N	O	0
			43	33	4	6	
13	V6	1	Total	C	N	O	0
			43	33	4	6	
13	V6	1	Total	C	N	O	0
			43	33	4	6	
13	W6	1	Total	C	N	O	0
			43	33	4	6	
13	W6	1	Total	C	N	O	0
			43	33	4	6	
13	X6	1	Total	C	N	O	0
			43	33	4	6	
13	X6	1	Total	C	N	O	0
			43	33	4	6	
13	Y6	1	Total	C	N	O	0
			43	33	4	6	
13	Z6	1	Total	C	N	O	0
			43	33	4	6	
13	Z6	1	Total	C	N	O	0
			43	33	4	6	
13	A7	1	Total	C	N	O	0
			43	33	4	6	
13	B7	1	Total	C	N	O	0
			43	33	4	6	
13	C7	1	Total	C	N	O	0
			43	33	4	6	
13	D7	1	Total	C	N	O	0
			43	33	4	6	
13	E7	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	E7	1	Total	C	N	O	0
			43	33	4	6	
13	F7	1	Total	C	N	O	0
			43	33	4	6	
13	G7	1	Total	C	N	O	0
			43	33	4	6	
13	G7	1	Total	C	N	O	0
			43	33	4	6	
13	H7	1	Total	C	N	O	0
			43	33	4	6	
13	I7	1	Total	C	N	O	0
			43	33	4	6	
13	I7	1	Total	C	N	O	0
			43	33	4	6	
13	J7	1	Total	C	N	O	0
			43	33	4	6	
13	K7	1	Total	C	N	O	0
			43	33	4	6	
13	K7	1	Total	C	N	O	0
			43	33	4	6	
13	L7	1	Total	C	N	O	0
			43	33	4	6	
13	M7	1	Total	C	N	O	0
			43	33	4	6	
13	N7	1	Total	C	N	O	0
			43	33	4	6	
13	A8	1	Total	C	N	O	0
			43	33	4	6	
13	B8	1	Total	C	N	O	0
			43	33	4	6	
13	C8	1	Total	C	N	O	0
			43	33	4	6	
13	D8	1	Total	C	N	O	0
			43	33	4	6	
13	E8	1	Total	C	N	O	0
			43	33	4	6	
13	F8	1	Total	C	N	O	0
			43	33	4	6	
13	H8	1	Total	C	N	O	0
			43	33	4	6	
13	I8	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	J8	1	Total	C	N	O	0
			43	33	4	6	
13	K8	1	Total	C	N	O	0
			43	33	4	6	
13	L8	1	Total	C	N	O	0
			43	33	4	6	
13	M8	1	Total	C	N	O	0
			43	33	4	6	
13	O8	1	Total	C	N	O	0
			43	33	4	6	
13	P8	1	Total	C	N	O	0
			43	33	4	6	
13	Q8	1	Total	C	N	O	0
			43	33	4	6	
13	R8	1	Total	C	N	O	0
			43	33	4	6	
13	S8	1	Total	C	N	O	0
			43	33	4	6	
13	T8	1	Total	C	N	O	0
			43	33	4	6	
13	V8	1	Total	C	N	O	0
			43	33	4	6	
13	W8	1	Total	C	N	O	0
			43	33	4	6	
13	X8	1	Total	C	N	O	0
			43	33	4	6	
13	Y8	1	Total	C	N	O	0
			43	33	4	6	
13	Z8	1	Total	C	N	O	0
			43	33	4	6	
13	b8	1	Total	C	N	O	0
			43	33	4	6	
13	c8	1	Total	C	N	O	0
			43	33	4	6	
13	d8	1	Total	C	N	O	0
			43	33	4	6	
13	e8	1	Total	C	N	O	0
			43	33	4	6	
13	f8	1	Total	C	N	O	0
			43	33	4	6	
13	g8	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	h8	1	Total	C	N	O	0
			43	33	4	6	
13	j8	1	Total	C	N	O	0
			43	33	4	6	
13	k8	1	Total	C	N	O	0
			43	33	4	6	
13	l8	1	Total	C	N	O	0
			43	33	4	6	
13	n8	1	Total	C	N	O	0
			43	33	4	6	
13	o8	1	Total	C	N	O	0
			43	33	4	6	
13	p8	1	Total	C	N	O	0
			43	33	4	6	
13	q8	1	Total	C	N	O	0
			43	33	4	6	
13	r8	1	Total	C	N	O	0
			43	33	4	6	
13	s8	1	Total	C	N	O	0
			43	33	4	6	
13	t8	1	Total	C	N	O	0
			43	33	4	6	
13	09	1	Total	C	N	O	0
			43	33	4	6	
13	09	1	Total	C	N	O	0
			43	33	4	6	
13	09	1	Total	C	N	O	0
			43	33	4	6	
13	19	1	Total	C	N	O	0
			43	33	4	6	
13	19	1	Total	C	N	O	0
			43	33	4	6	
13	19	1	Total	C	N	O	0
			43	33	4	6	
13	19	1	Total	C	N	O	0
			43	33	4	6	
13	19	1	Total	C	N	O	0
			43	33	4	6	
13	29	1	Total	C	N	O	0
			43	33	4	6	
13	39	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	A9	1	Total	C	N	O	0
			43	33	4	6	
13	B9	1	Total	C	N	O	0
			43	33	4	6	
13	C9	1	Total	C	N	O	0
			43	33	4	6	
13	D9	1	Total	C	N	O	0
			43	33	4	6	
13	E9	1	Total	C	N	O	0
			43	33	4	6	
13	F9	1	Total	C	N	O	0
			43	33	4	6	
13	G9	1	Total	C	N	O	0
			43	33	4	6	
13	H9	1	Total	C	N	O	0
			43	33	4	6	
13	I9	1	Total	C	N	O	0
			43	33	4	6	
13	J9	1	Total	C	N	O	0
			43	33	4	6	
13	K9	1	Total	C	N	O	0
			43	33	4	6	
13	L9	1	Total	C	N	O	0
			43	33	4	6	
13	N9	1	Total	C	N	O	0
			43	33	4	6	
13	O9	1	Total	C	N	O	0
			43	33	4	6	
13	P9	1	Total	C	N	O	0
			43	33	4	6	
13	Q9	1	Total	C	N	O	0
			43	33	4	6	
13	R9	1	Total	C	N	O	0
			43	33	4	6	
13	S9	1	Total	C	N	O	0
			43	33	4	6	
13	T9	1	Total	C	N	O	0
			43	33	4	6	
13	U9	1	Total	C	N	O	0
			43	33	4	6	
13	V9	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	X9	1	Total	C	N	O	0
			43	33	4	6	
13	Z9	1	Total	C	N	O	0
			43	33	4	6	
13	b9	1	Total	C	N	O	0
			43	33	4	6	
13	c9	1	Total	C	N	O	0
			43	33	4	6	
13	d9	1	Total	C	N	O	0
			43	33	4	6	
13	e9	1	Total	C	N	O	0
			43	33	4	6	
13	f9	1	Total	C	N	O	0
			43	33	4	6	
13	g9	1	Total	C	N	O	0
			43	33	4	6	
13	i9	1	Total	C	N	O	0
			43	33	4	6	
13	j9	1	Total	C	N	O	0
			43	33	4	6	
13	k9	1	Total	C	N	O	0
			43	33	4	6	
13	l9	1	Total	C	N	O	0
			43	33	4	6	
13	m9	1	Total	C	N	O	0
			43	33	4	6	
13	o9	1	Total	C	N	O	0
			43	33	4	6	
13	p9	1	Total	C	N	O	0
			43	33	4	6	
13	q9	1	Total	C	N	O	0
			43	33	4	6	
13	r9	1	Total	C	N	O	0
			43	33	4	6	
13	s9	1	Total	C	N	O	0
			43	33	4	6	
13	t9	1	Total	C	N	O	0
			43	33	4	6	
13	u9	1	Total	C	N	O	0
			43	33	4	6	
13	v9	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	w9	1	Total	C	N	O	0
			43	33	4	6	
13	x9	1	Total	C	N	O	0
			43	33	4	6	
13	y9	1	Total	C	N	O	0
			43	33	4	6	
13	z9	1	Total	C	N	O	0
			43	33	4	6	
13	AA	1	Total	C	N	O	0
			43	33	4	6	
13	AA	1	Total	C	N	O	0
			43	33	4	6	
13	AA	1	Total	C	N	O	0
			43	33	4	6	
13	AA	1	Total	C	N	O	0
			43	33	4	6	
13	CA	1	Total	C	N	O	0
			43	33	4	6	
13	DA	1	Total	C	N	O	0
			43	33	4	6	
13	EA	1	Total	C	N	O	0
			43	33	4	6	
13	EA	1	Total	C	N	O	0
			43	33	4	6	
13	GA	1	Total	C	N	O	0
			43	33	4	6	
13	GA	1	Total	C	N	O	0
			43	33	4	6	
13	IA	1	Total	C	N	O	0
			43	33	4	6	
13	IA	1	Total	C	N	O	0
			43	33	4	6	
13	JA	1	Total	C	N	O	0
			43	33	4	6	
13	KA	1	Total	C	N	O	0
			43	33	4	6	
13	LA	1	Total	C	N	O	0
			43	33	4	6	
13	MA	1	Total	C	N	O	0
			43	33	4	6	
13	MA	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
13	MA	1	Total	C	N	O	0
			43	33	4	6	
13	NA	1	Total	C	N	O	0
			43	33	4	6	
13	OA	1	Total	C	N	O	0
			43	33	4	6	
13	PA	1	Total	C	N	O	0
			43	33	4	6	
13	PA	1	Total	C	N	O	0
			43	33	4	6	
13	PA	1	Total	C	N	O	0
			43	33	4	6	
13	RA	1	Total	C	N	O	0
			43	33	4	6	
13	SA	1	Total	C	N	O	0
			43	33	4	6	
13	TA	1	Total	C	N	O	0
			43	33	4	6	
13	TA	1	Total	C	N	O	0
			43	33	4	6	
13	UA	1	Total	C	N	O	0
			43	33	4	6	
13	VA	1	Total	C	N	O	0
			43	33	4	6	
13	VA	1	Total	C	N	O	0
			43	33	4	6	
13	WA	1	Total	C	N	O	0
			43	33	4	6	
13	XA	1	Total	C	N	O	0
			43	33	4	6	
13	XA	1	Total	C	N	O	0
			43	33	4	6	
13	YA	1	Total	C	N	O	0
			43	33	4	6	
13	ZA	1	Total	C	N	O	0
			43	33	4	6	
13	ZA	1	Total	C	N	O	0
			43	33	4	6	

3 Residue-property plots (i)

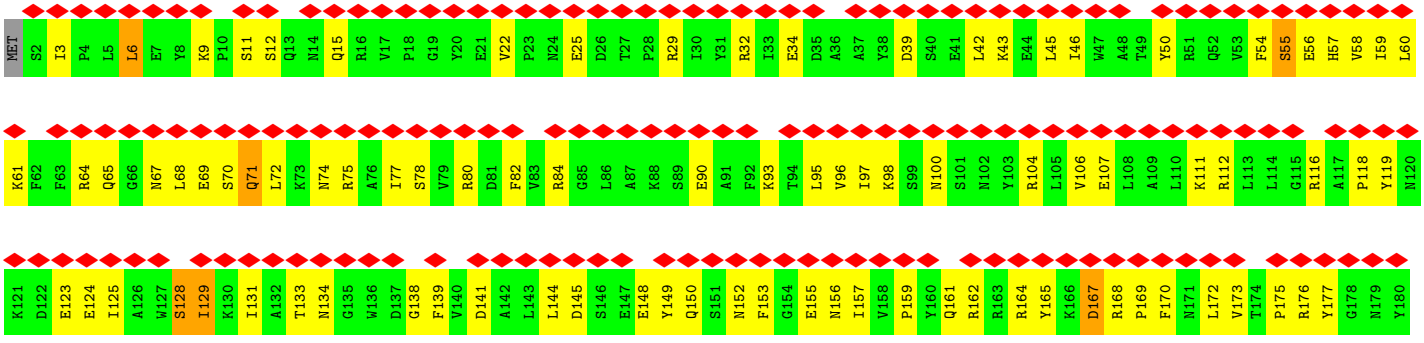
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

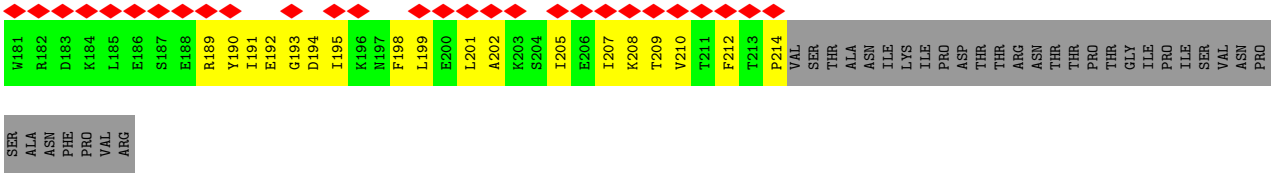
• Molecule 1: Phycobilisome rod-core linker polypeptide CpcG2

Chain A1:

• Molecule 1: Phycobilisome rod-core linker polypeptide CpcG2

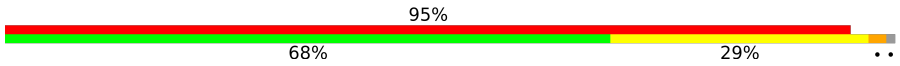
Chain A4:

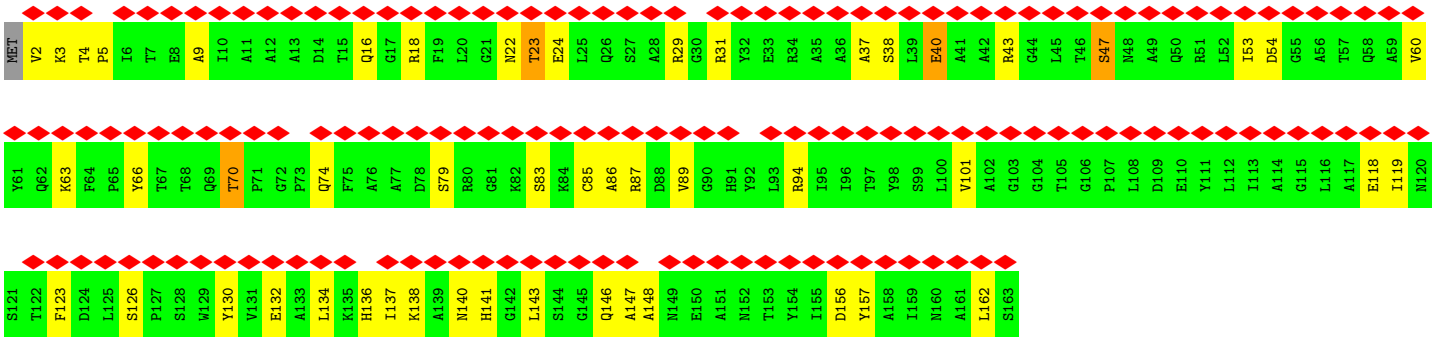




• Molecule 2: C-phycocyanin alpha subunit

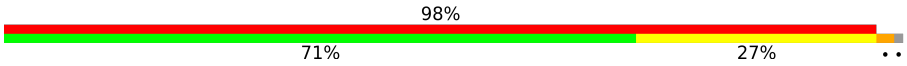
Chain B1:





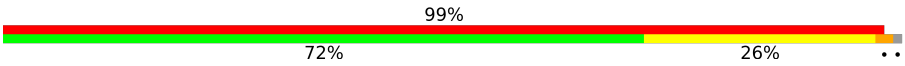
• Molecule 2: C-phycocyanin alpha subunit

Chain D1:



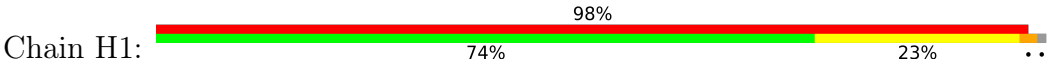
• Molecule 2: C-phycocyanin alpha subunit

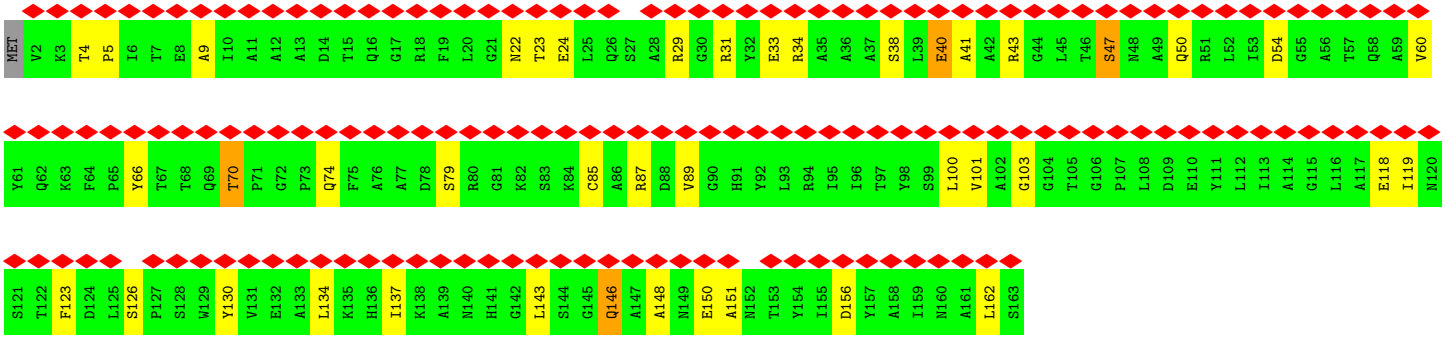
Chain F1:



• Molecule 2: C-phycocyanin alpha subunit

Chain H1:



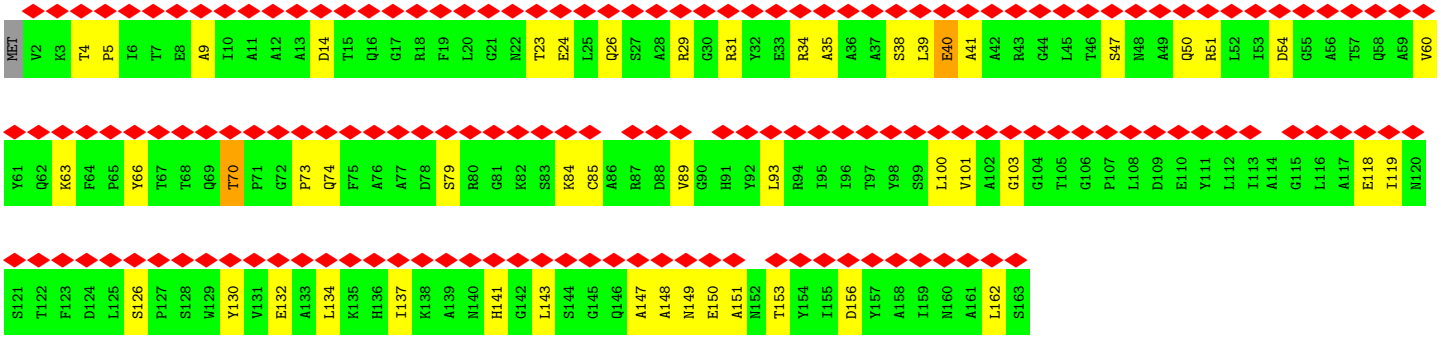


• Molecule 2: C-phycocyanin alpha subunit

Chain J1:

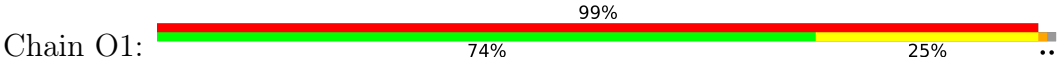
• Molecule 2: C-phycocyanin alpha subunit

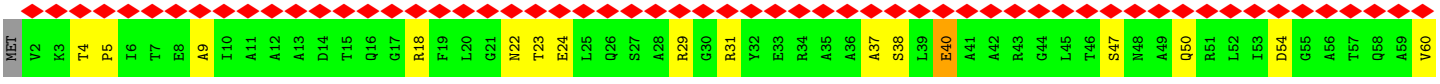
Chain L1:

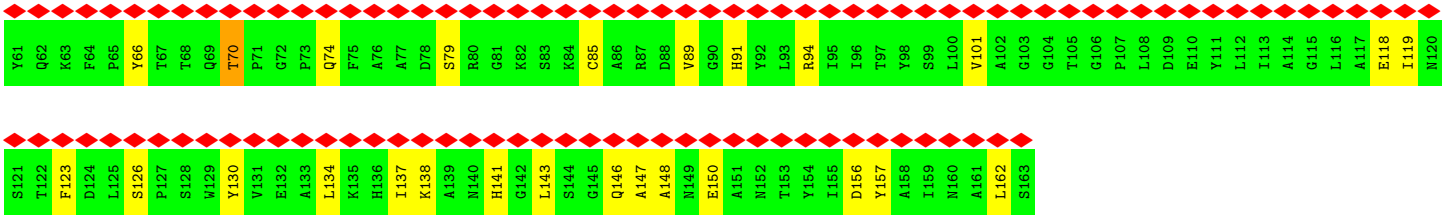


• Molecule 2: C-phycocyanin alpha subunit

Chain O1:

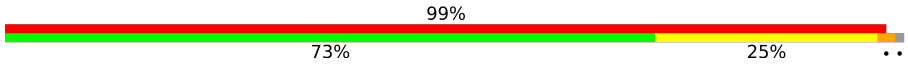


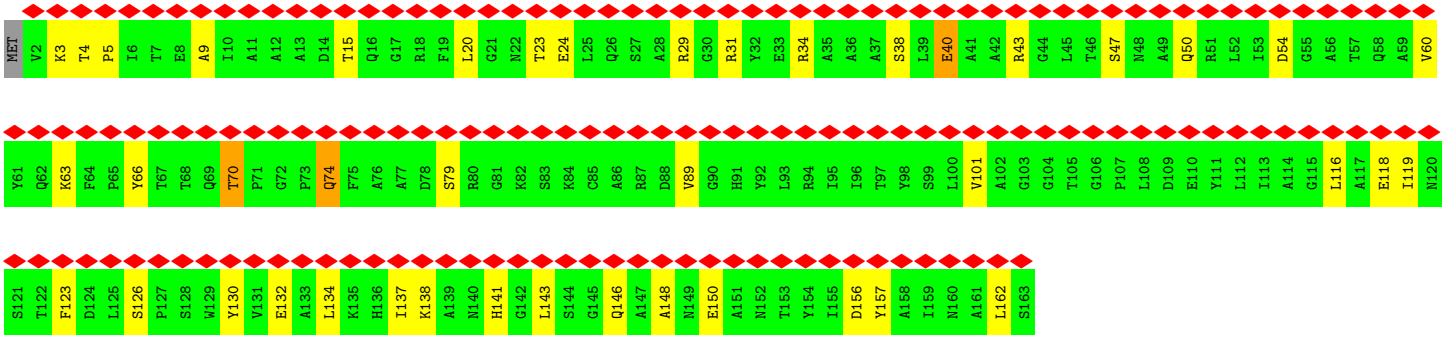




• Molecule 2: C-phycocyanin alpha subunit

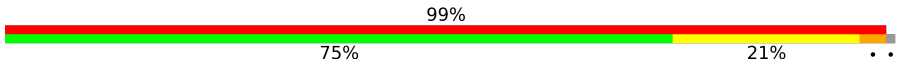
Chain Q1:

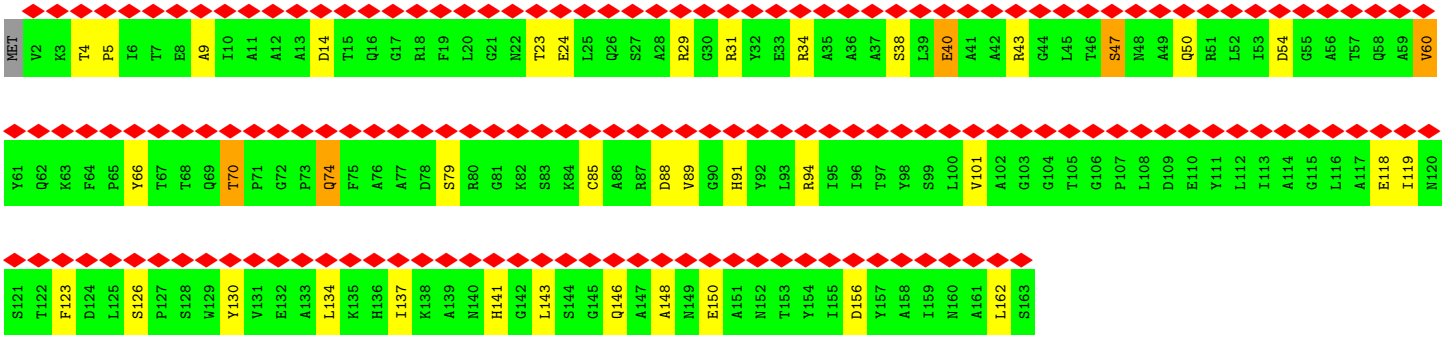




• Molecule 2: C-phycocyanin alpha subunit

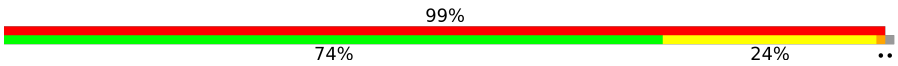
Chain S1:

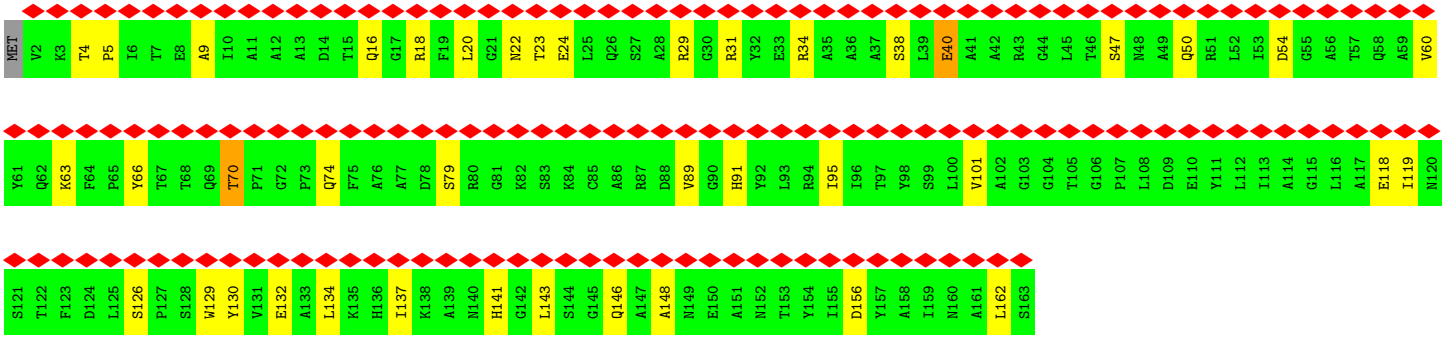




• Molecule 2: C-phycocyanin alpha subunit

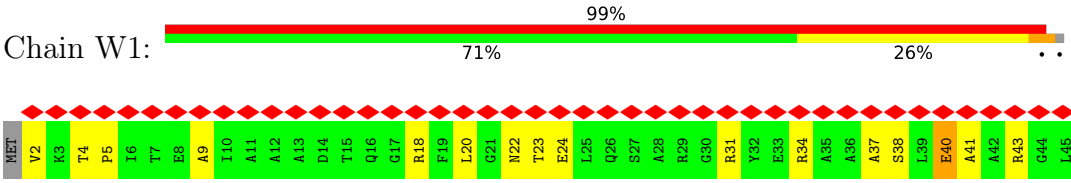
Chain U1:

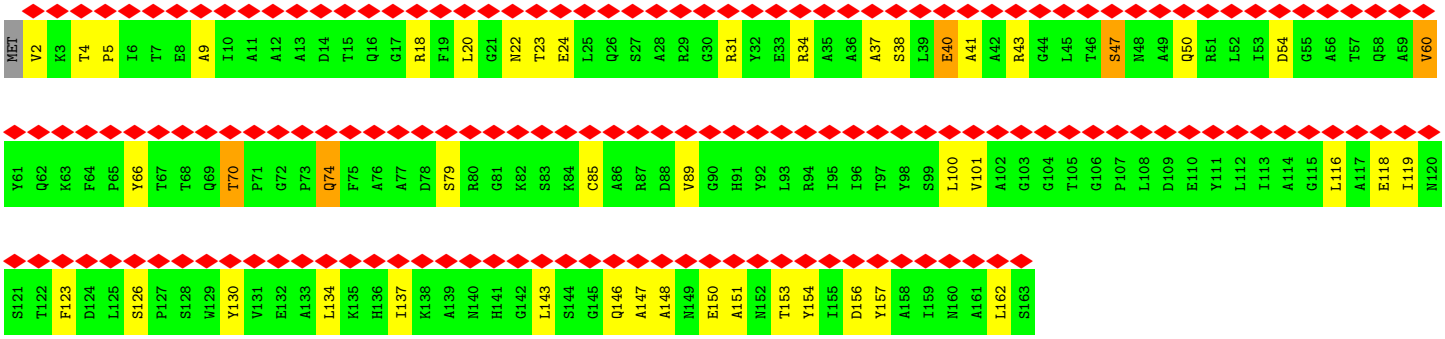




• Molecule 2: C-phycocyanin alpha subunit

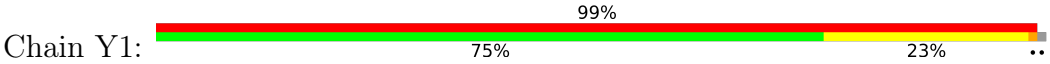
Chain W1:





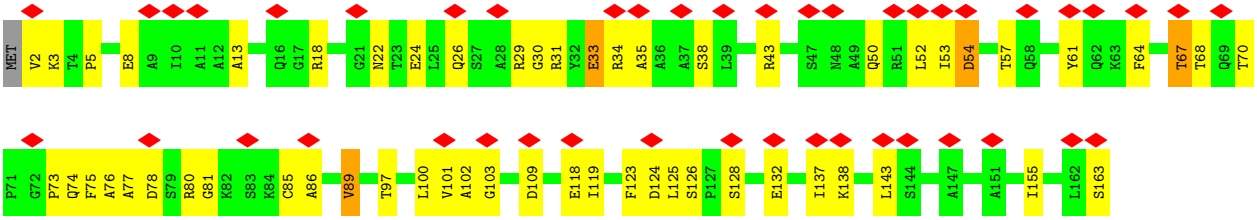
• Molecule 2: C-phycocyanin alpha subunit

Chain Y1:



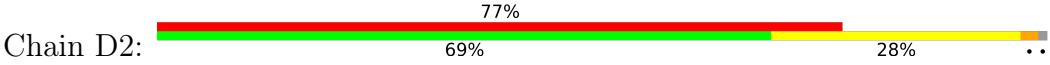
• Molecule 2: C-phycocyanin alpha subunit

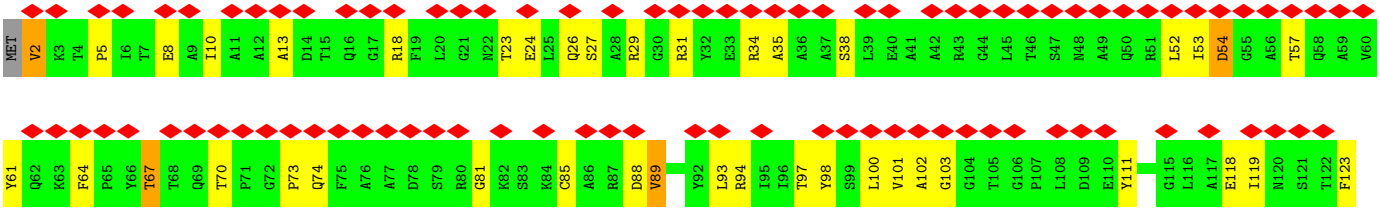
Chain B2:

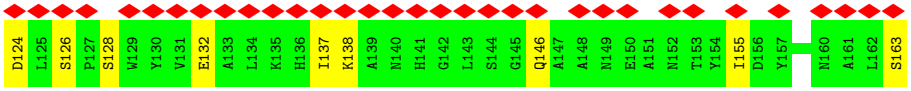


• Molecule 2: C-phycocyanin alpha subunit

Chain D2:

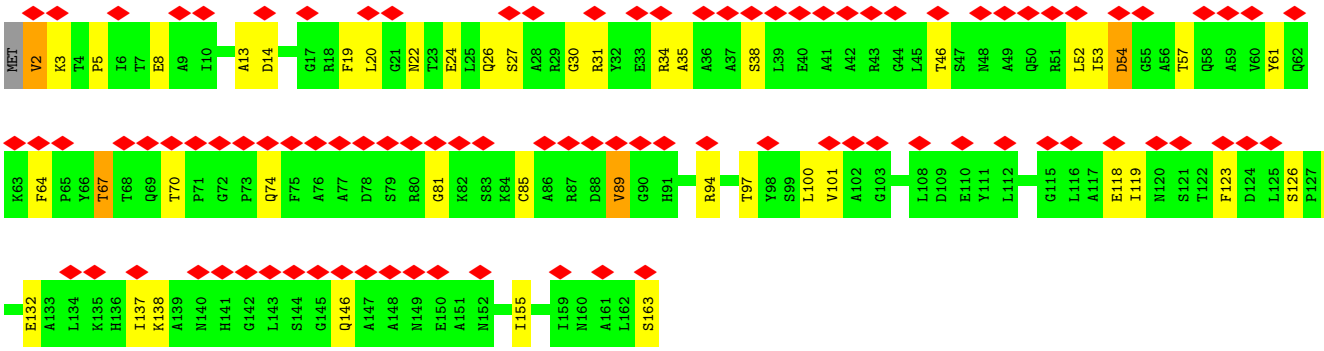






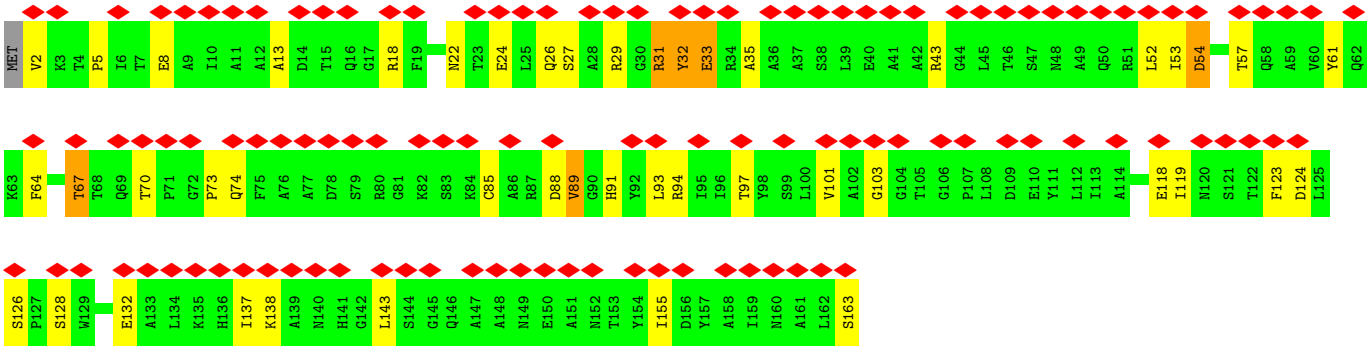
• Molecule 2: C-phycocyanin alpha subunit

Chain F2:



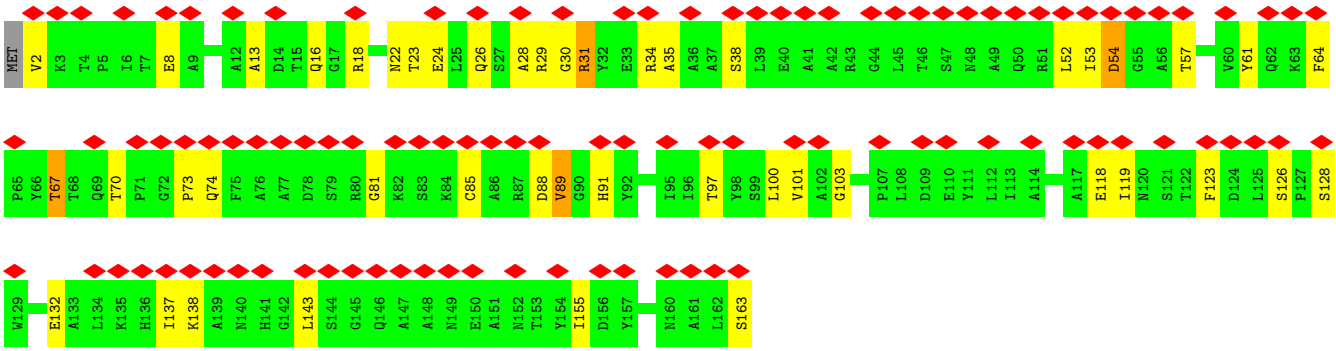
• Molecule 2: C-phycocyanin alpha subunit

Chain H2:



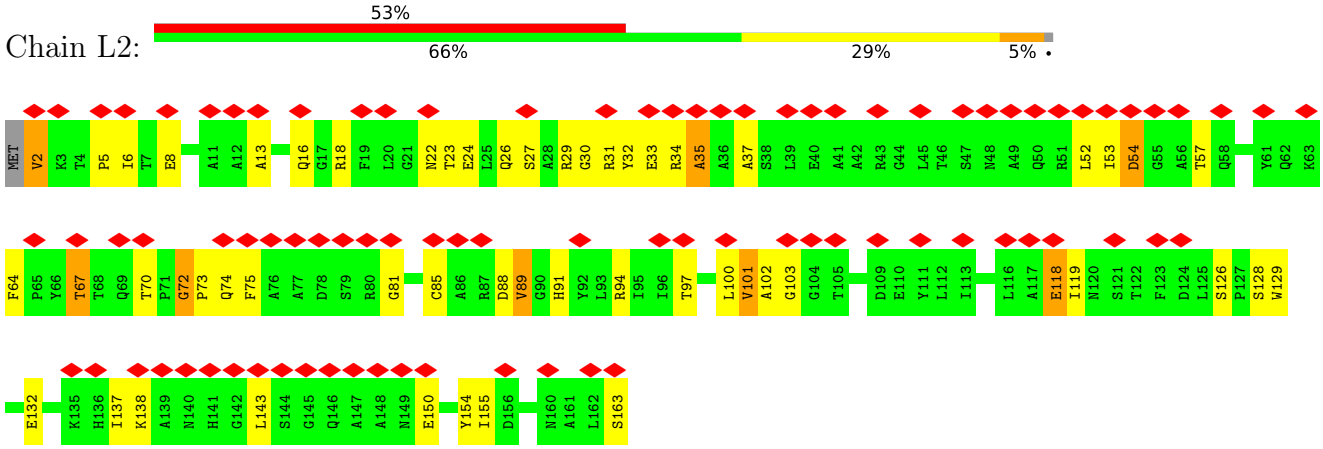
• Molecule 2: C-phycocyanin alpha subunit

Chain J2:



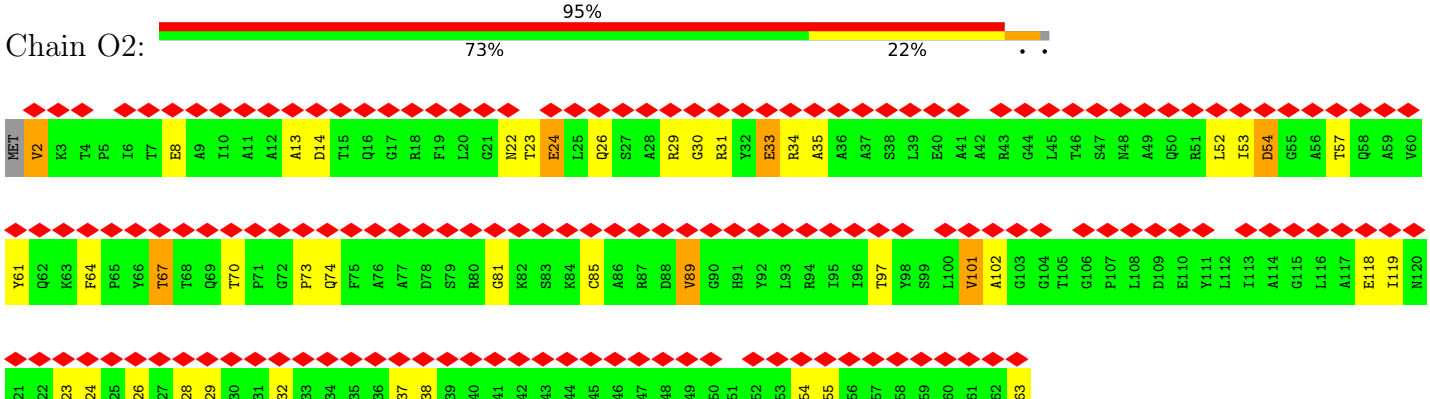
• Molecule 2: C-phycocyanin alpha subunit

Chain L2:



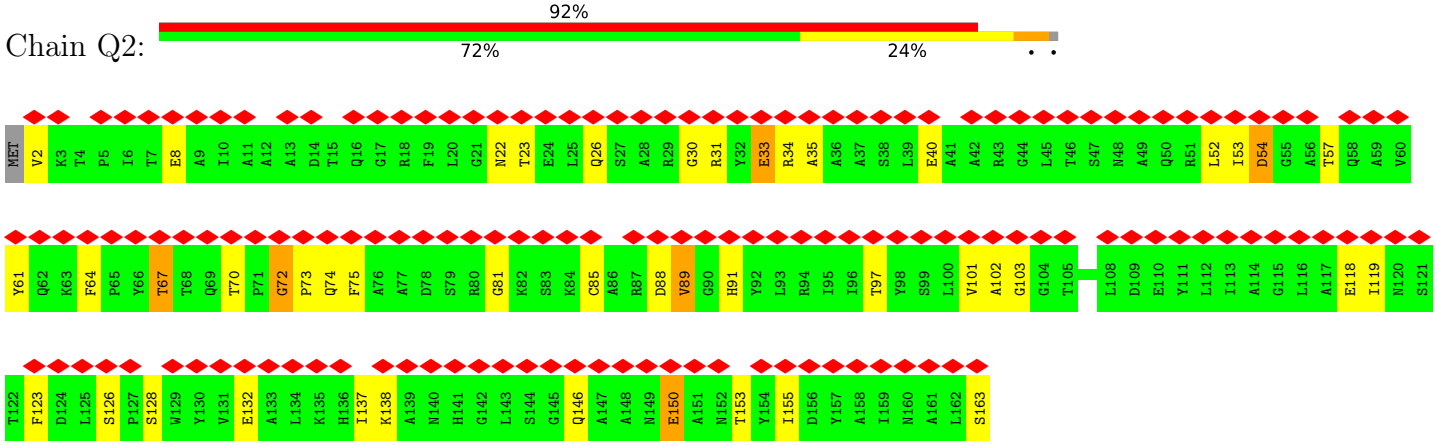
- Molecule 2: C-phycocyanin alpha subunit

Chain O2:



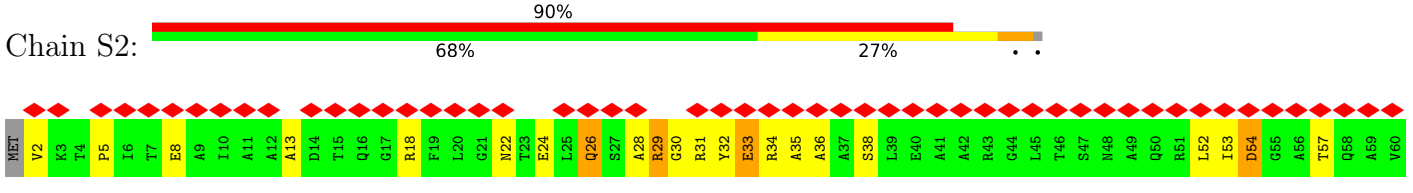
- Molecule 2: C-phycocyanin alpha subunit

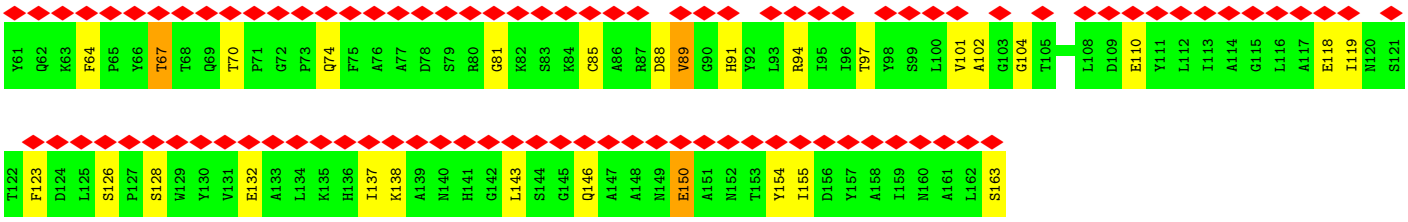
Chain Q2:



- Molecule 2: C-phycocyanin alpha subunit

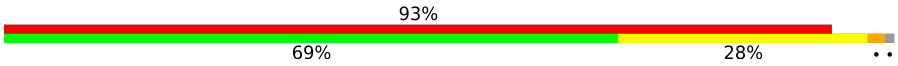
Chain S2:





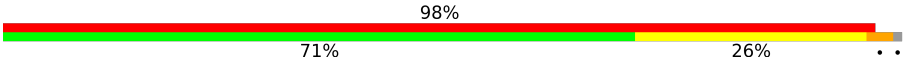
• Molecule 2: C-phycocyanin alpha subunit

Chain U2:



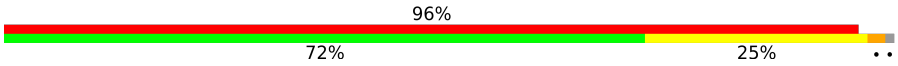
• Molecule 2: C-phycocyanin alpha subunit

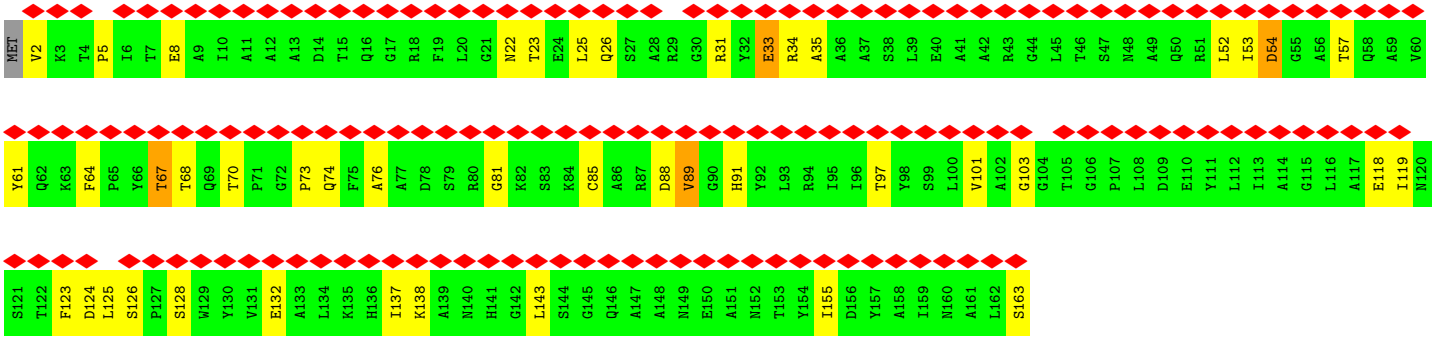
Chain W2:



• Molecule 2: C-phycocyanin alpha subunit

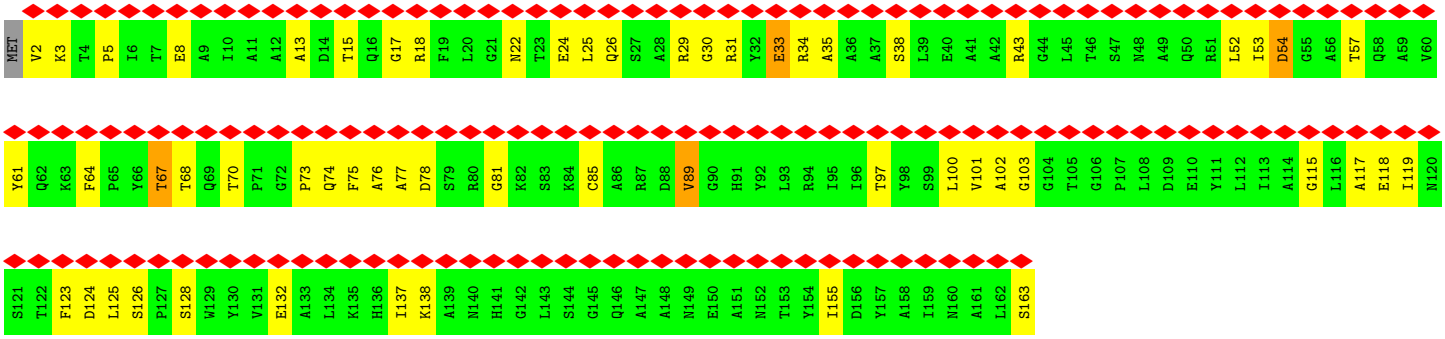
Chain Y2:





• Molecule 2: C-phycocyanin alpha subunit

Chain B3:

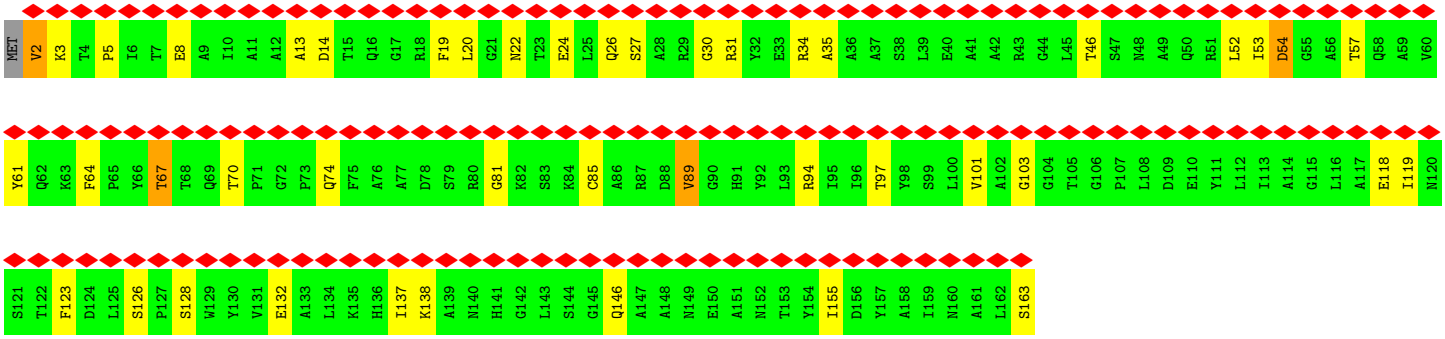


• Molecule 2: C-phycocyanin alpha subunit

Chain D3:

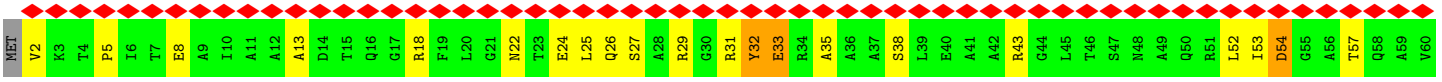
• Molecule 2: C-phycocyanin alpha subunit

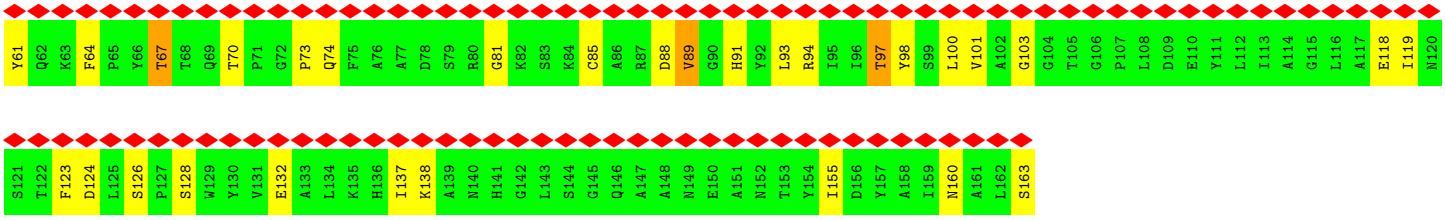
Chain F3:



• Molecule 2: C-phycocyanin alpha subunit

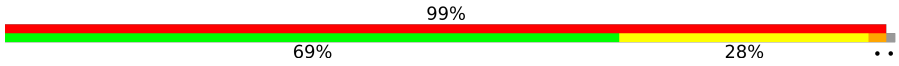
Chain H3:

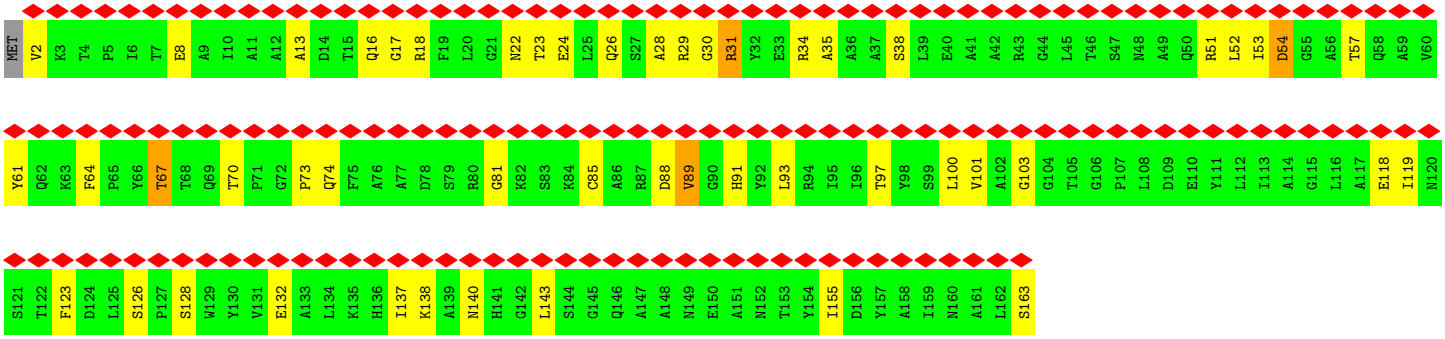




• Molecule 2: C-phycocyanin alpha subunit

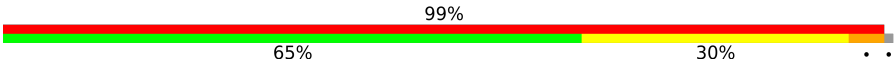
Chain J3:

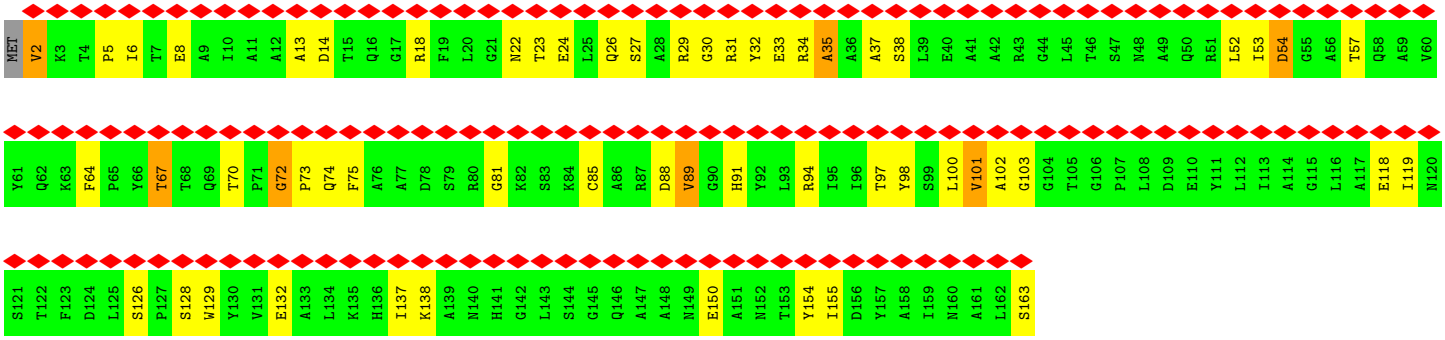




• Molecule 2: C-phycocyanin alpha subunit

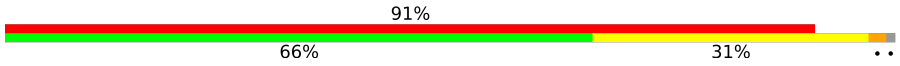
Chain L3:

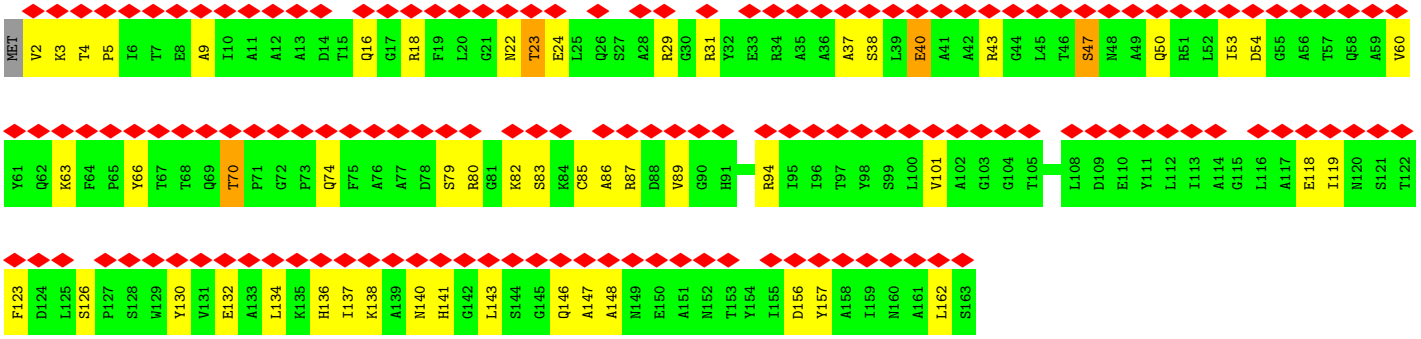




• Molecule 2: C-phycocyanin alpha subunit

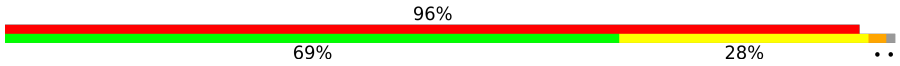
Chain B4:

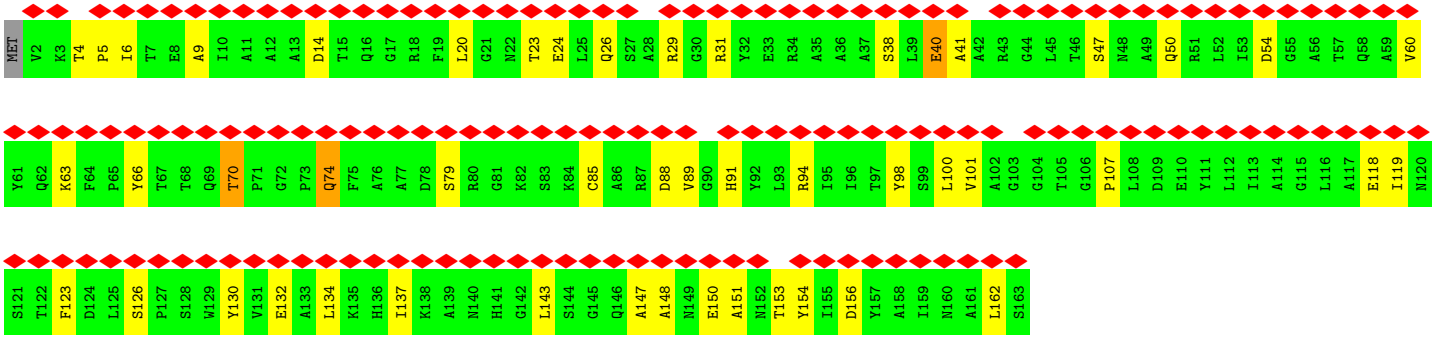




• Molecule 2: C-phycocyanin alpha subunit

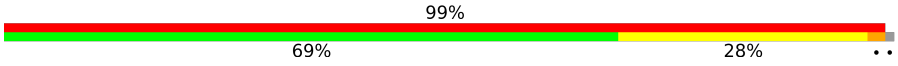
Chain D4:

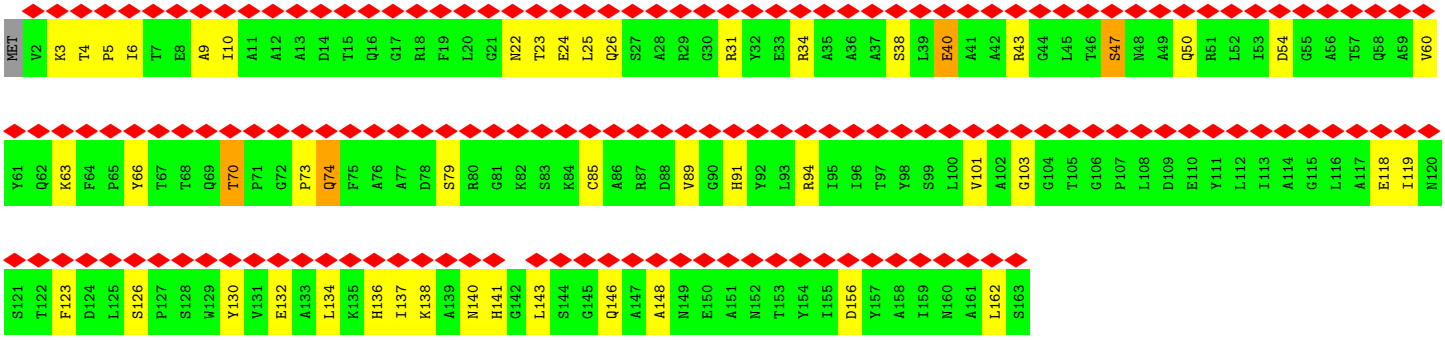




• Molecule 2: C-phycocyanin alpha subunit

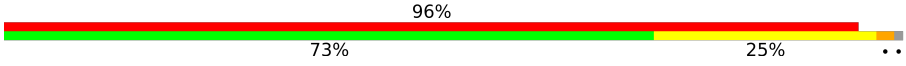
Chain F4:

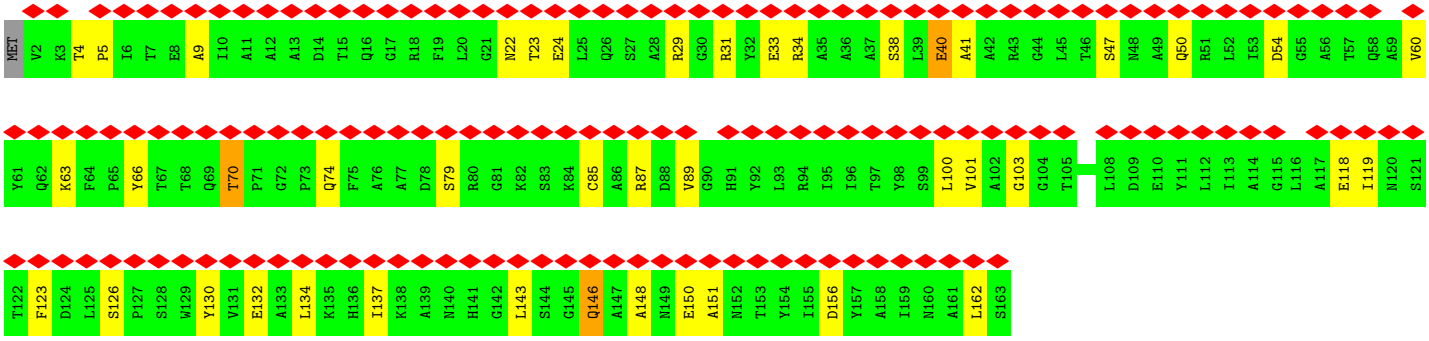




• Molecule 2: C-phycocyanin alpha subunit

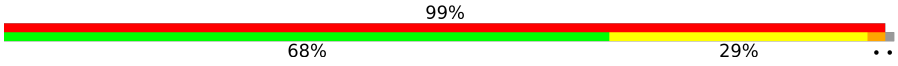
Chain H4:

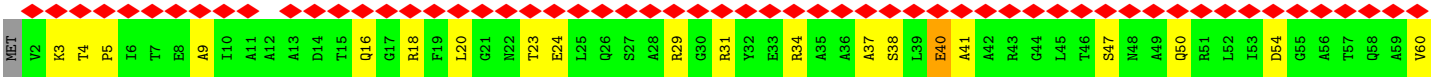


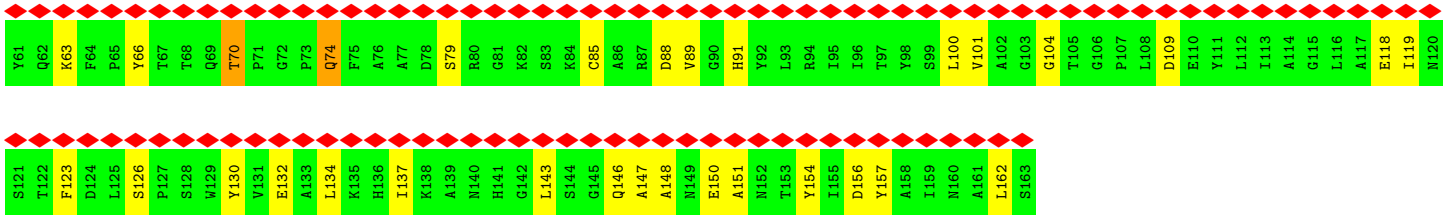


• Molecule 2: C-phycocyanin alpha subunit

Chain J4:

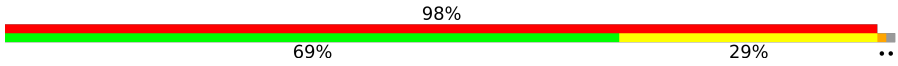


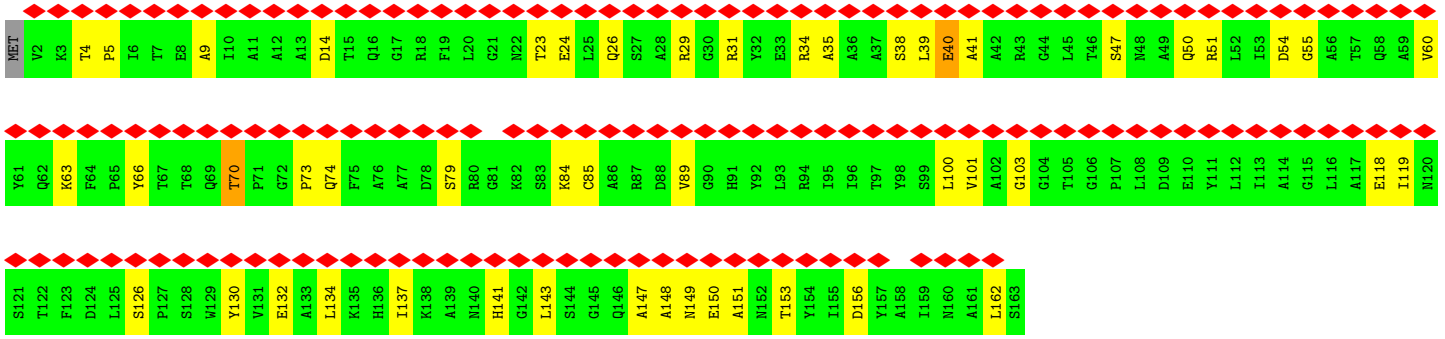




• Molecule 2: C-phycocyanin alpha subunit

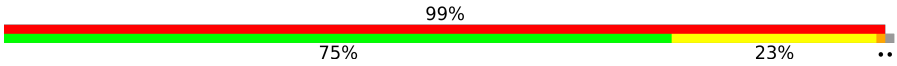
Chain L4:

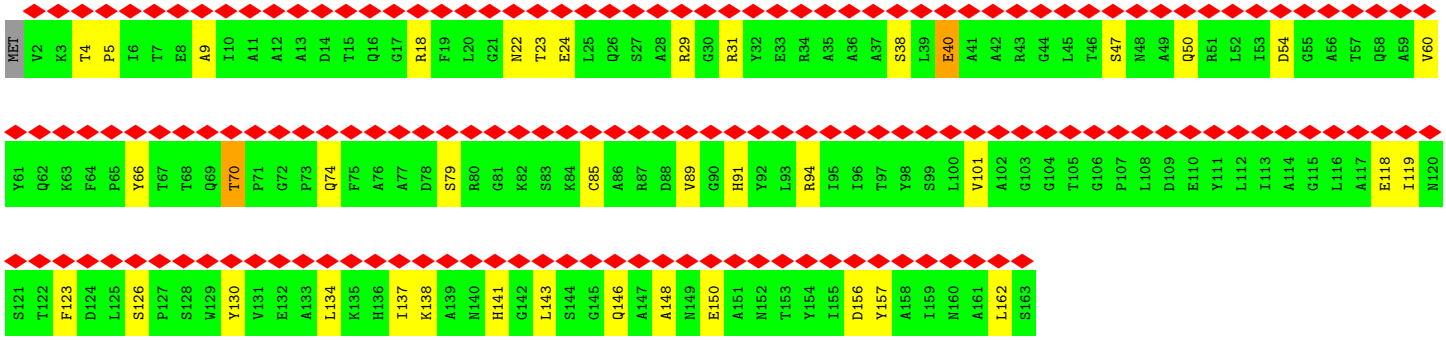




• Molecule 2: C-phycocyanin alpha subunit

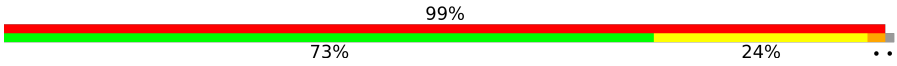
Chain O4:

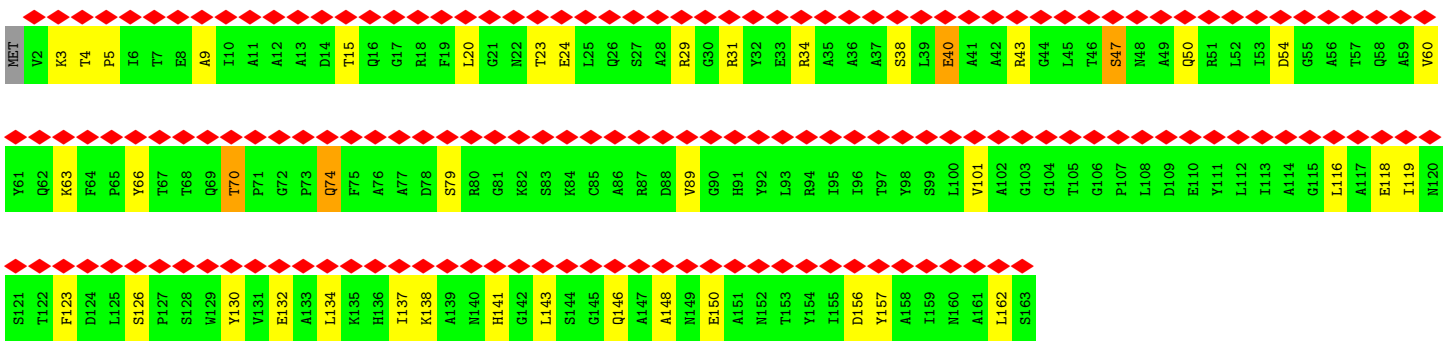




• Molecule 2: C-phycocyanin alpha subunit

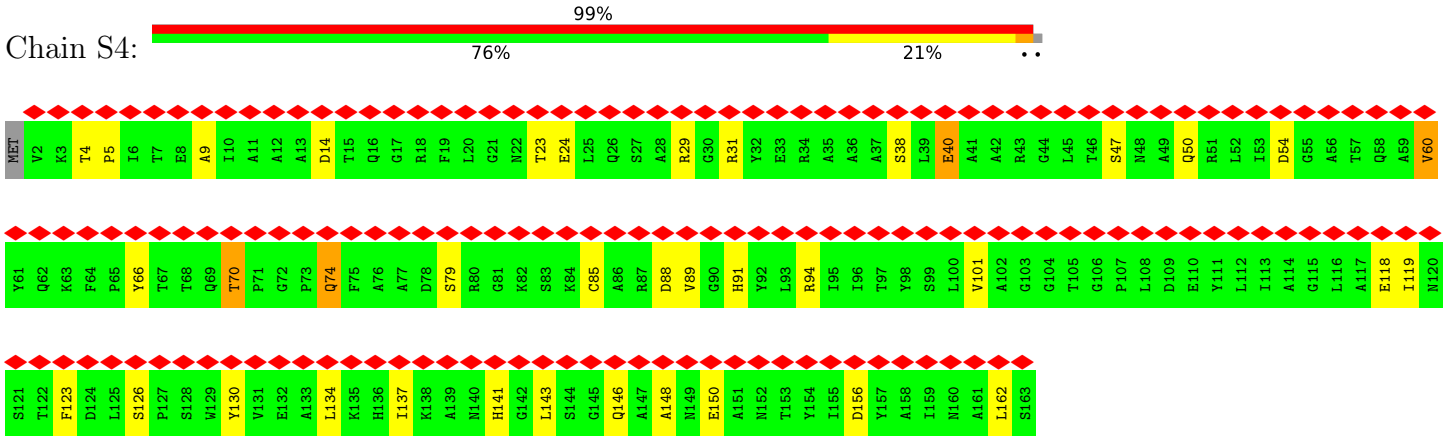
Chain Q4:





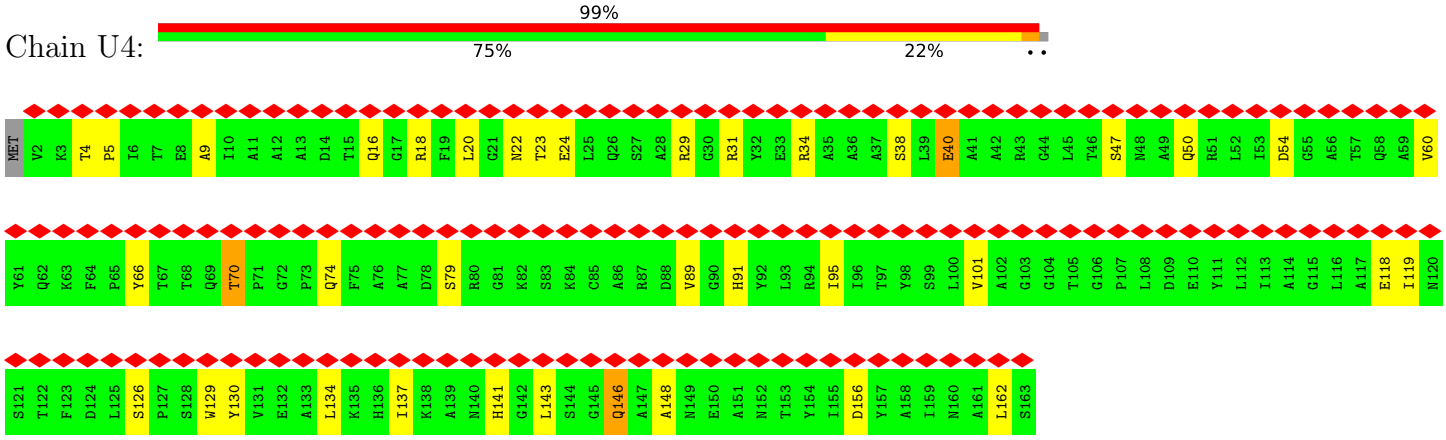
• Molecule 2: C-phycocyanin alpha subunit

Chain S4:



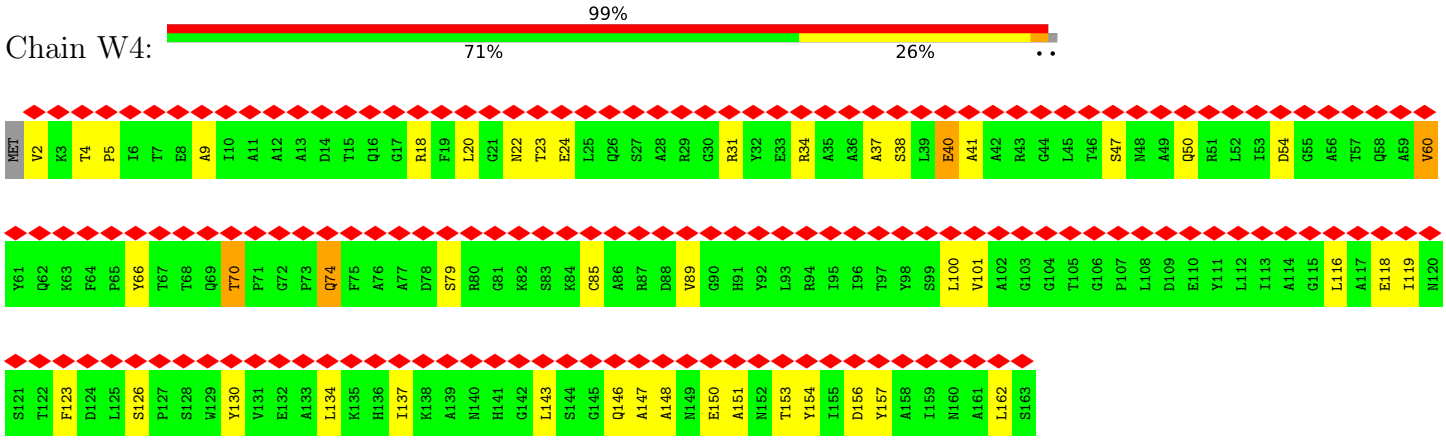
• Molecule 2: C-phycocyanin alpha subunit

Chain U4:



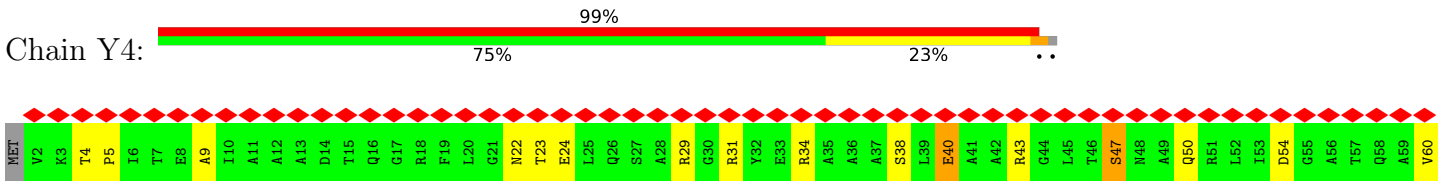
• Molecule 2: C-phycocyanin alpha subunit

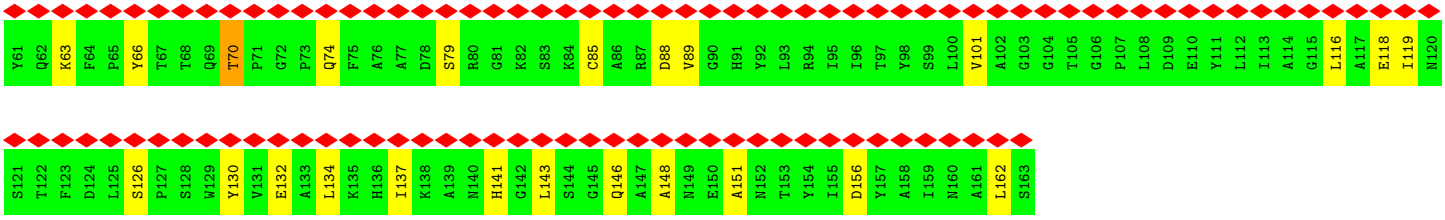
Chain W4:



• Molecule 2: C-phycocyanin alpha subunit

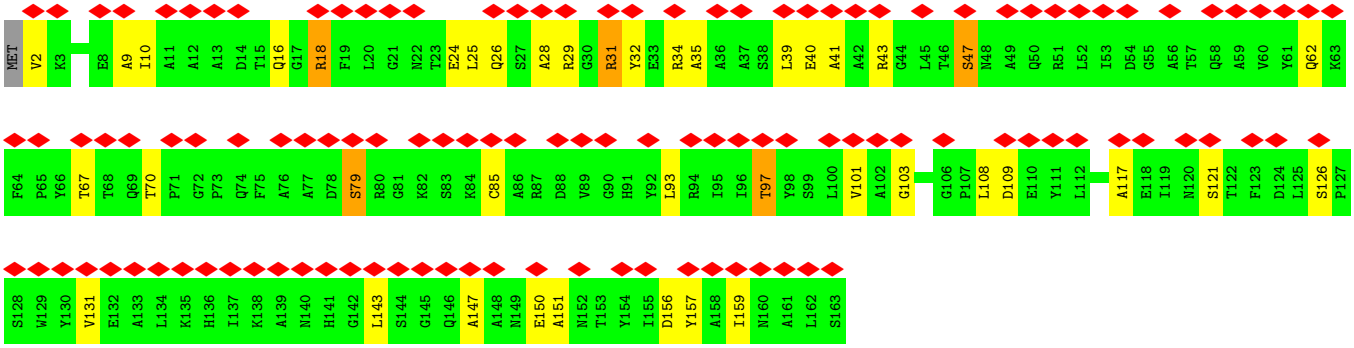
Chain Y4:





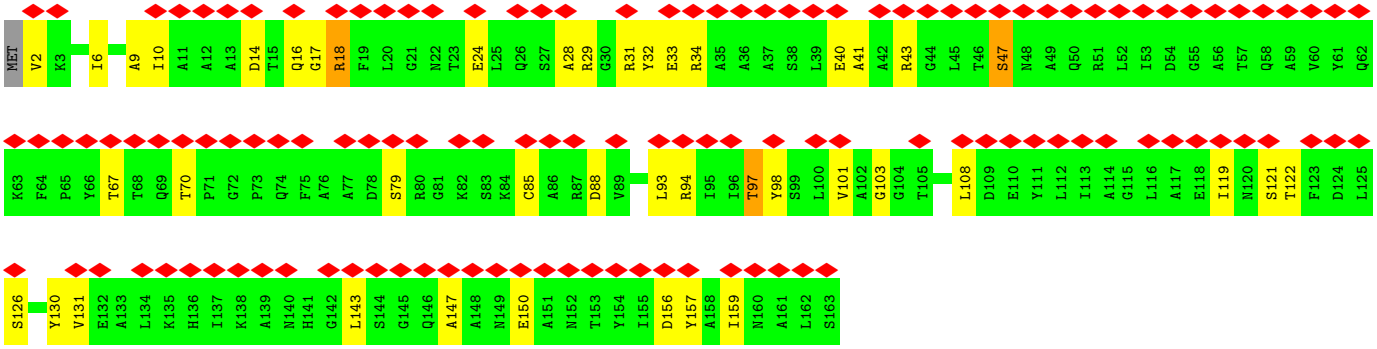
• Molecule 2: C-phycocyanin alpha subunit

Chain B5:



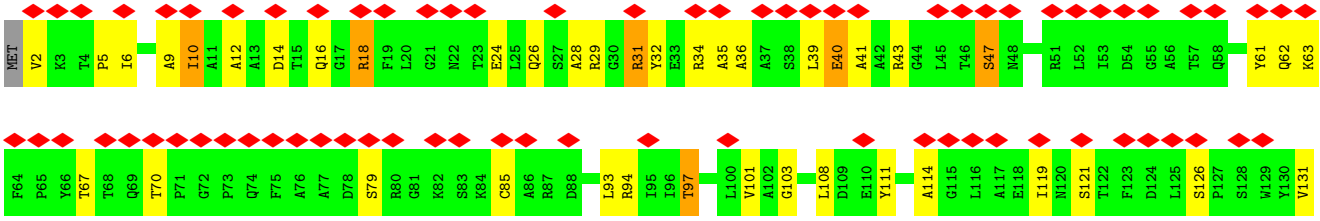
• Molecule 2: C-phycocyanin alpha subunit

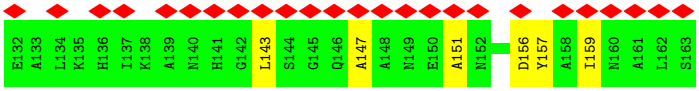
Chain D5:



• Molecule 2: C-phycocyanin alpha subunit

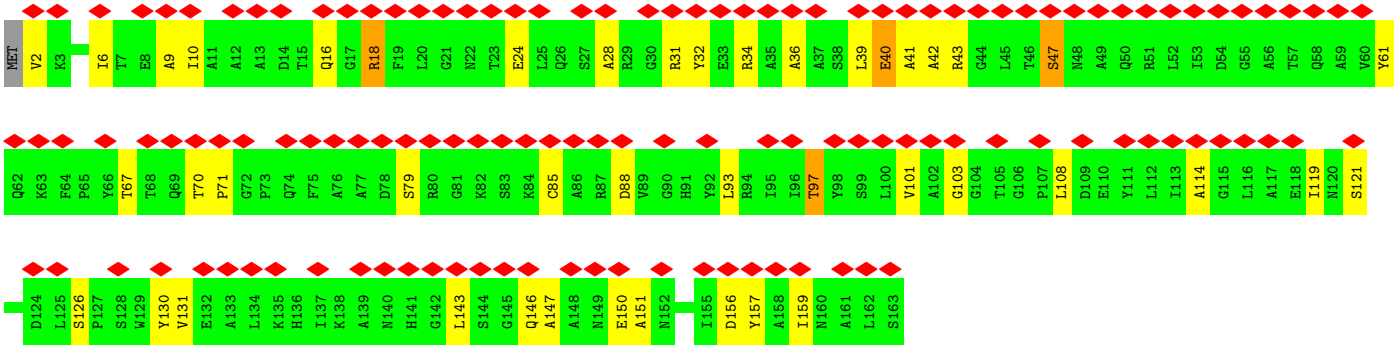
Chain F5:





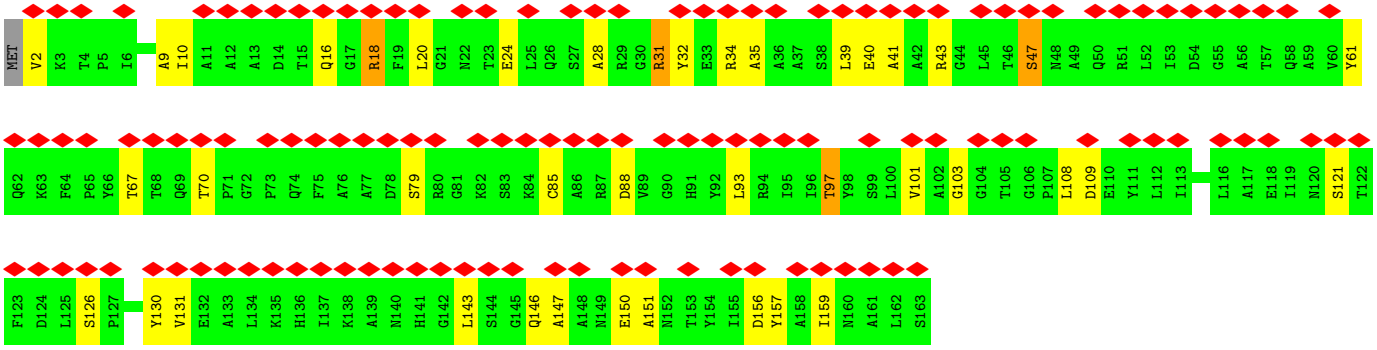
• Molecule 2: C-phycocyanin alpha subunit

Chain H5:



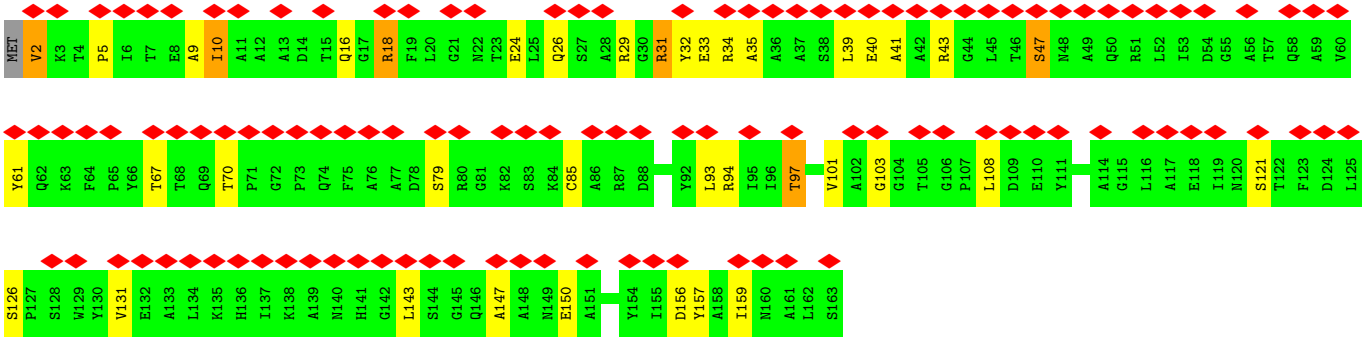
• Molecule 2: C-phycocyanin alpha subunit

Chain J5:



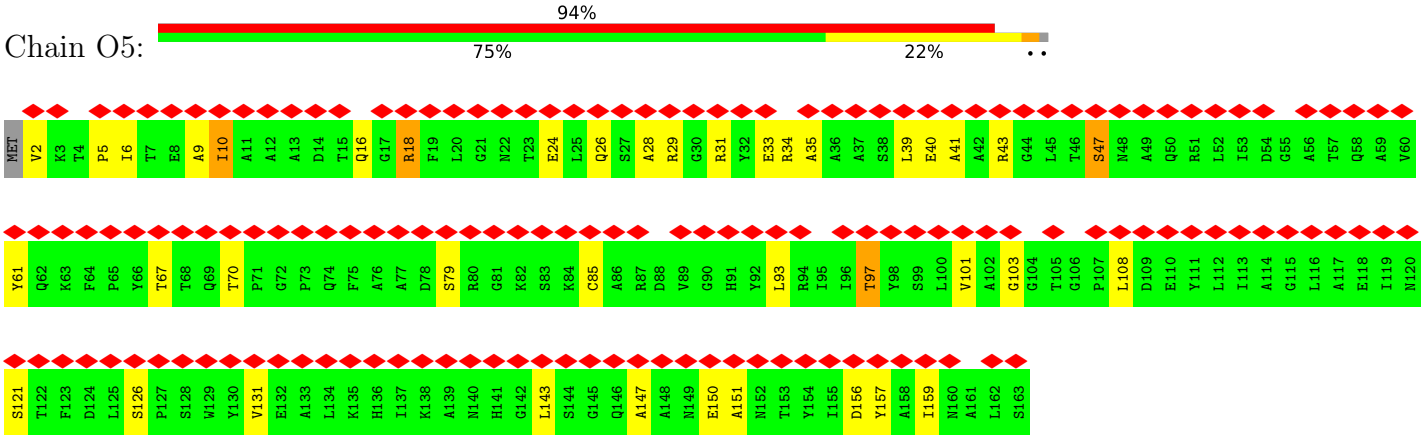
• Molecule 2: C-phycocyanin alpha subunit

Chain L5:



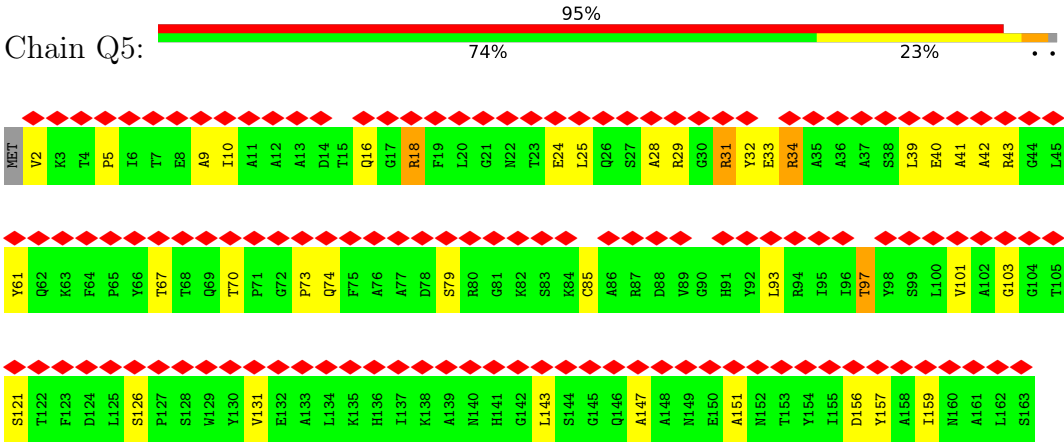
• Molecule 2: C-phycocyanin alpha subunit

Chain O5:



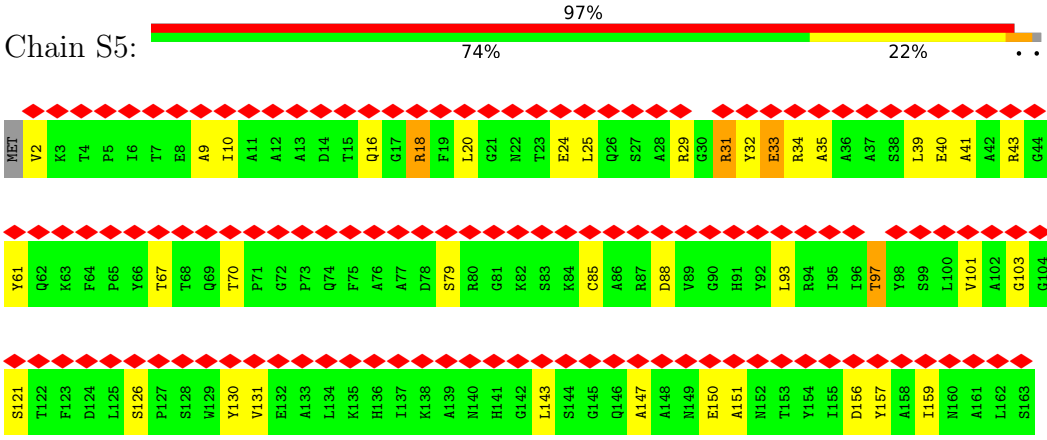
• Molecule 2: C-phycocyanin alpha subunit

Chain Q5:



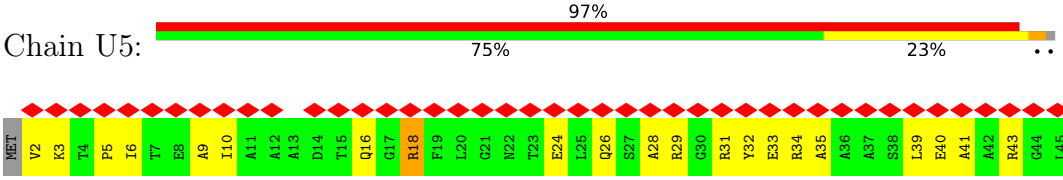
• Molecule 2: C-phycocyanin alpha subunit

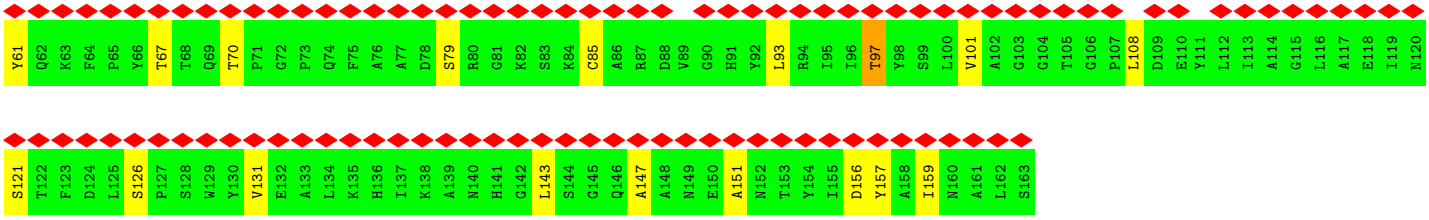
Chain S5:



• Molecule 2: C-phycocyanin alpha subunit

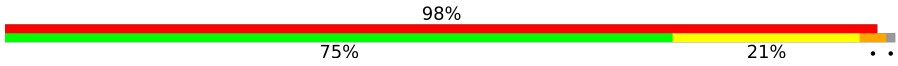
Chain U5:





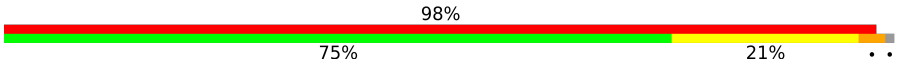
• Molecule 2: C-phycocyanin alpha subunit

Chain W5:



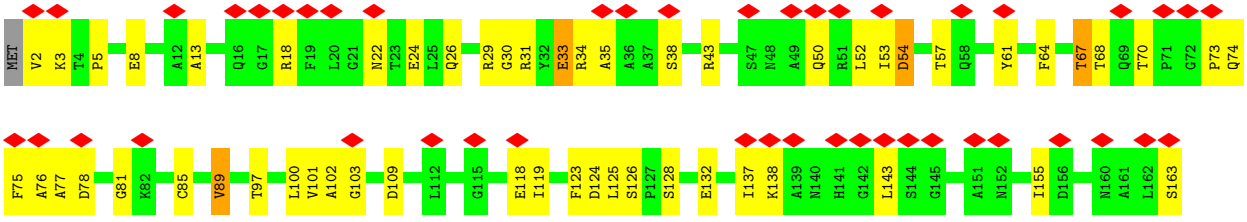
• Molecule 2: C-phycocyanin alpha subunit

Chain Y5:



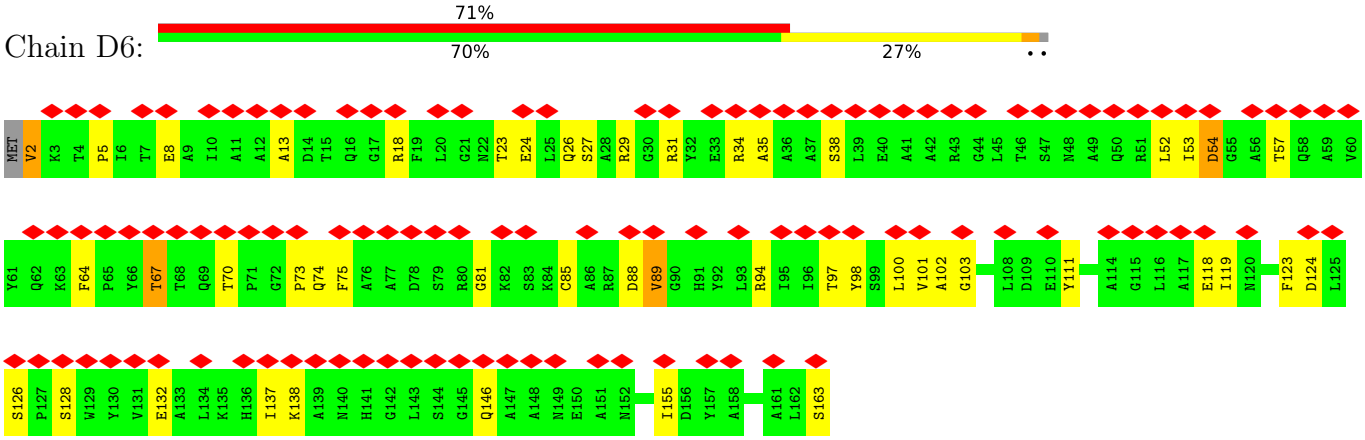
• Molecule 2: C-phycocyanin alpha subunit

Chain B6:



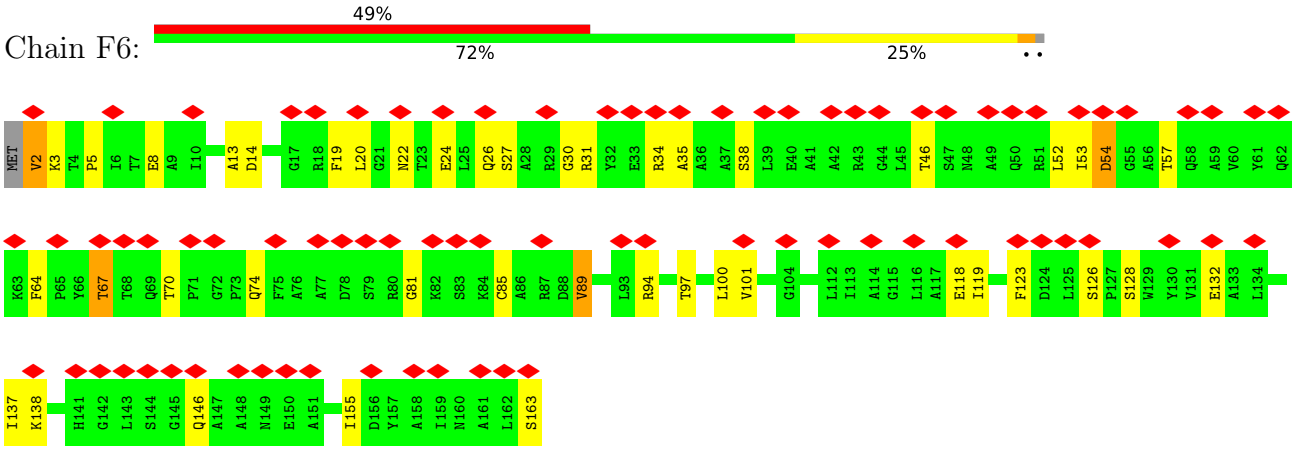
• Molecule 2: C-phycocyanin alpha subunit

Chain D6:



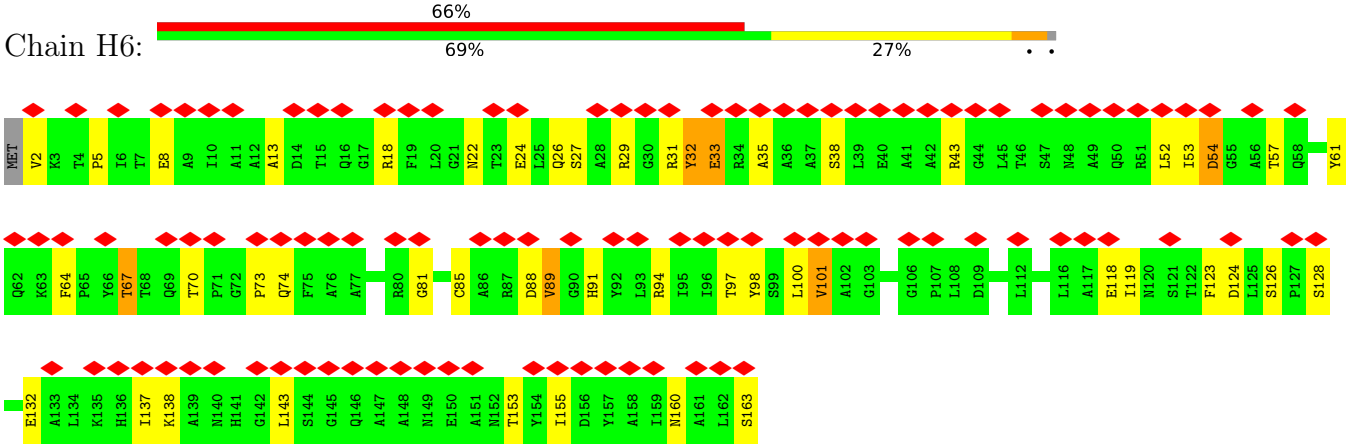
• Molecule 2: C-phycocyanin alpha subunit

Chain F6:



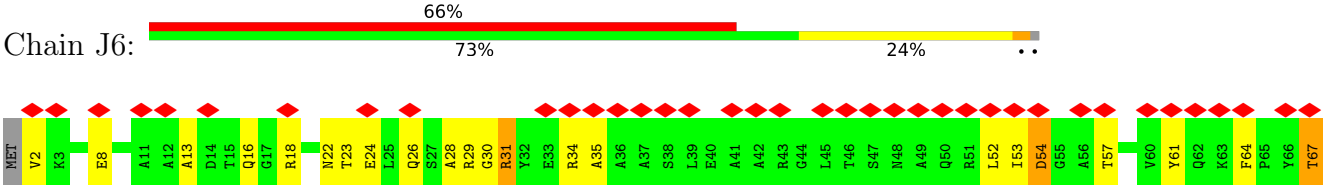
• Molecule 2: C-phycocyanin alpha subunit

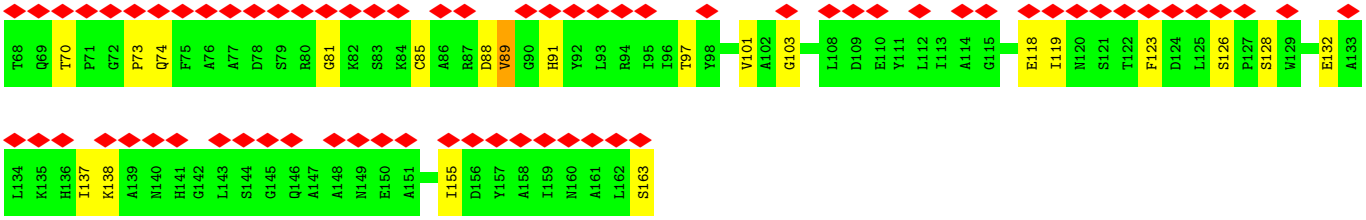
Chain H6:



• Molecule 2: C-phycocyanin alpha subunit

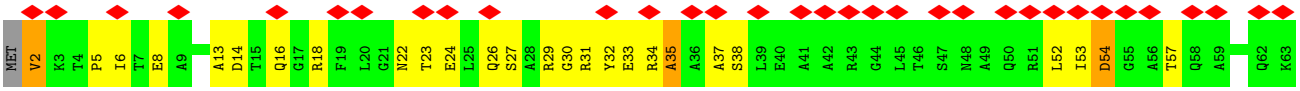
Chain J6:





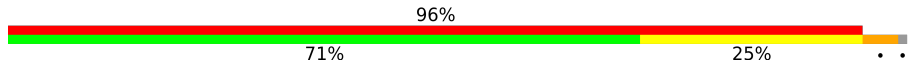
• Molecule 2: C-phycocyanin alpha subunit

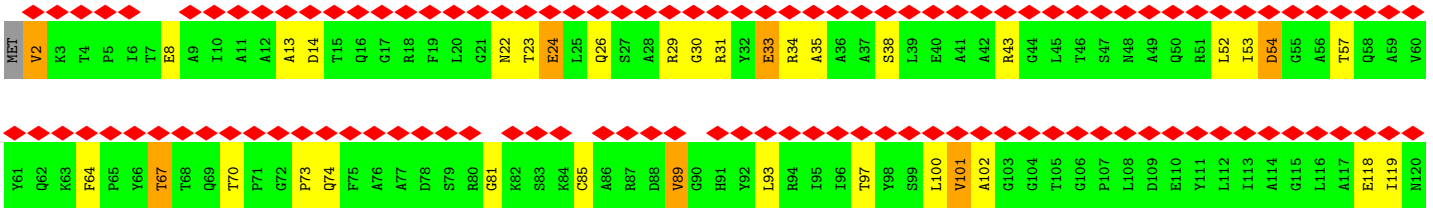
Chain L6:



• Molecule 2: C-phycocyanin alpha subunit

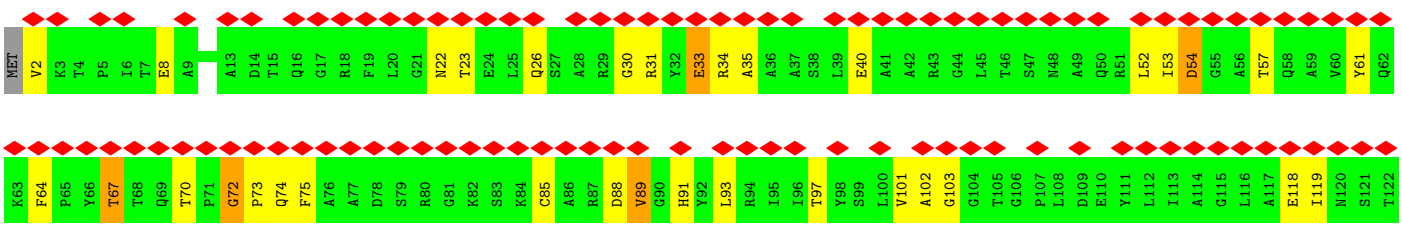
Chain O6:

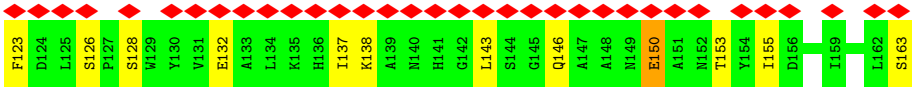




• Molecule 2: C-phycocyanin alpha subunit

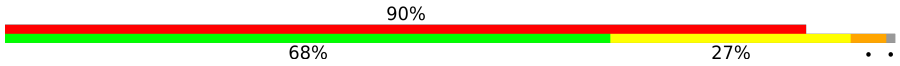
Chain Q6:

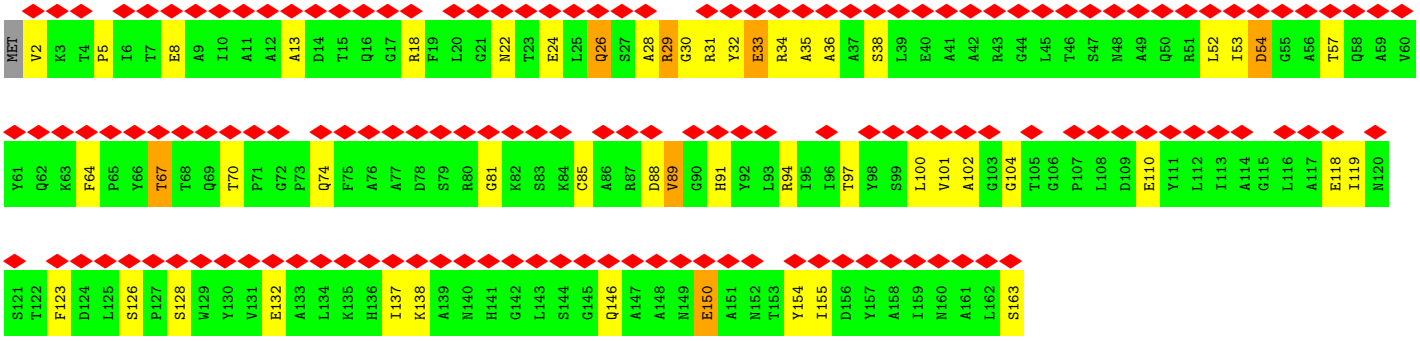




• Molecule 2: C-phycocyanin alpha subunit

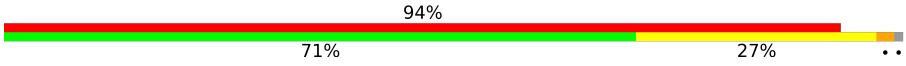
Chain S6:

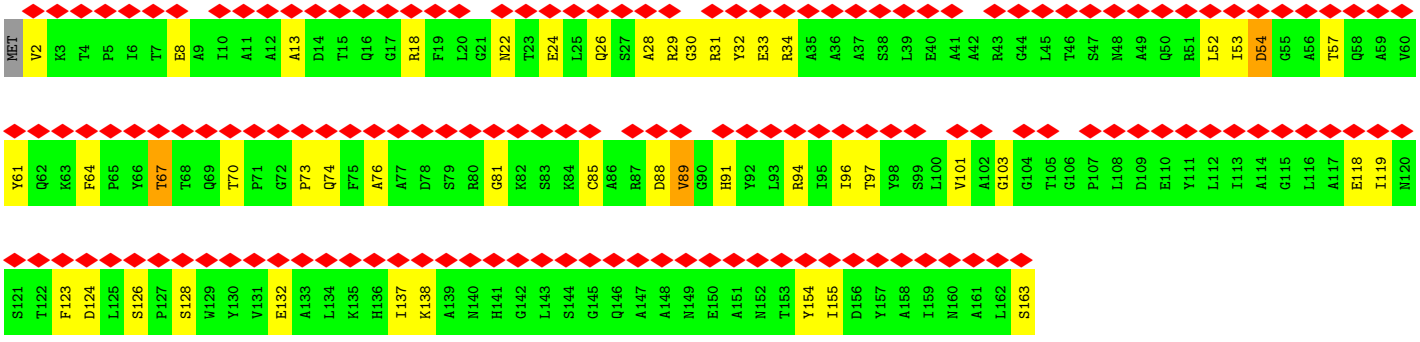




• Molecule 2: C-phycocyanin alpha subunit

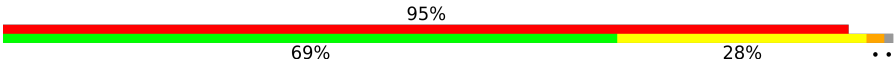
Chain U6:

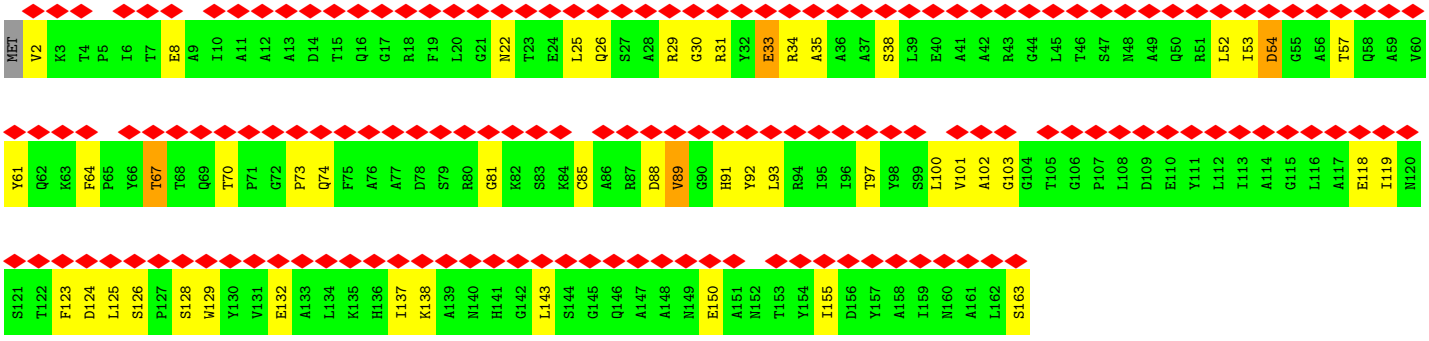




• Molecule 2: C-phycocyanin alpha subunit

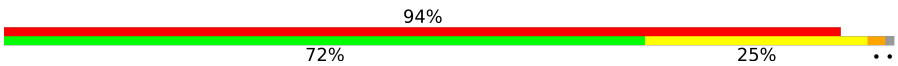
Chain W6:

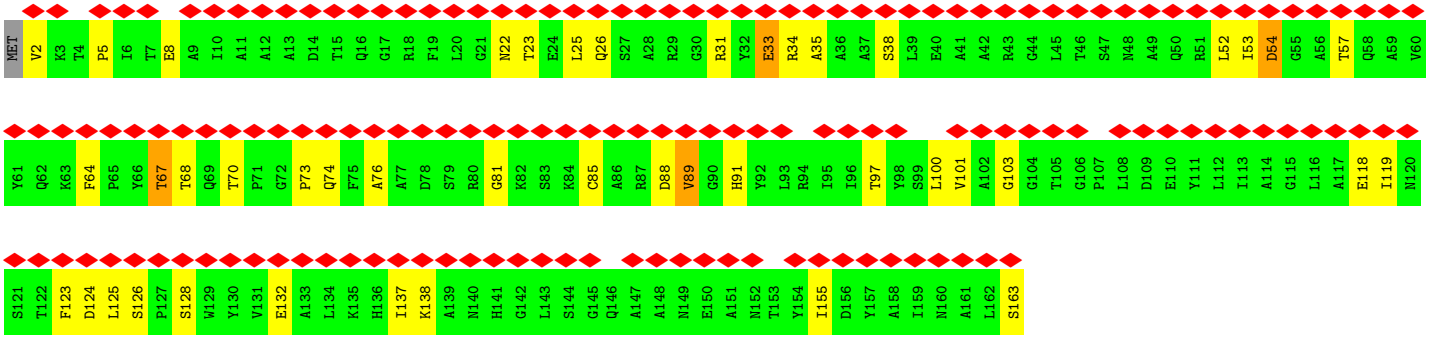




• Molecule 2: C-phycocyanin alpha subunit

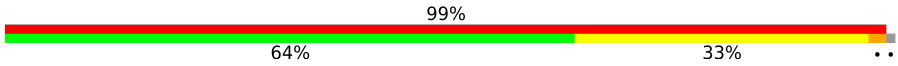
Chain Y6:

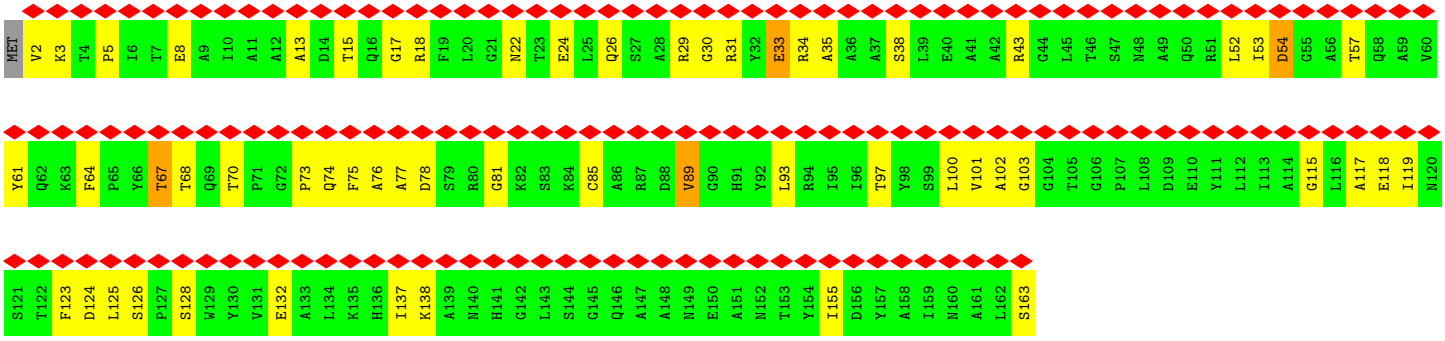




• Molecule 2: C-phycocyanin alpha subunit

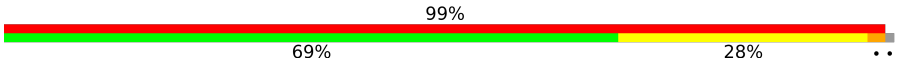
Chain B7:





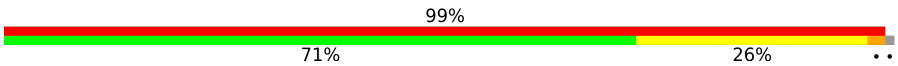
• Molecule 2: C-phycocyanin alpha subunit

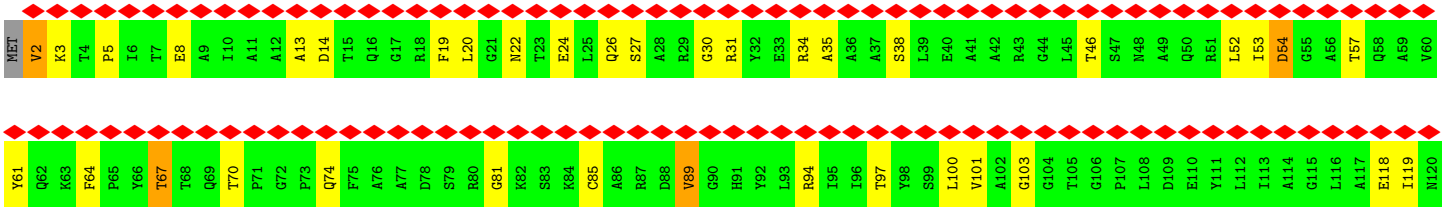
Chain D7:

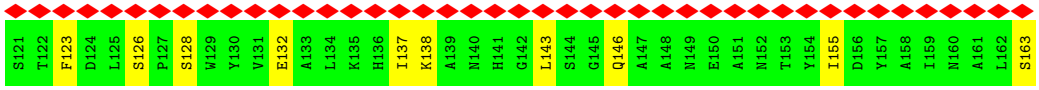


• Molecule 2: C-phycocyanin alpha subunit

Chain F7:

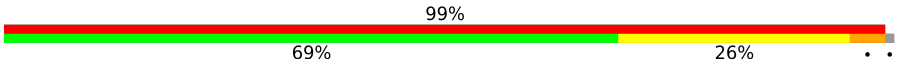


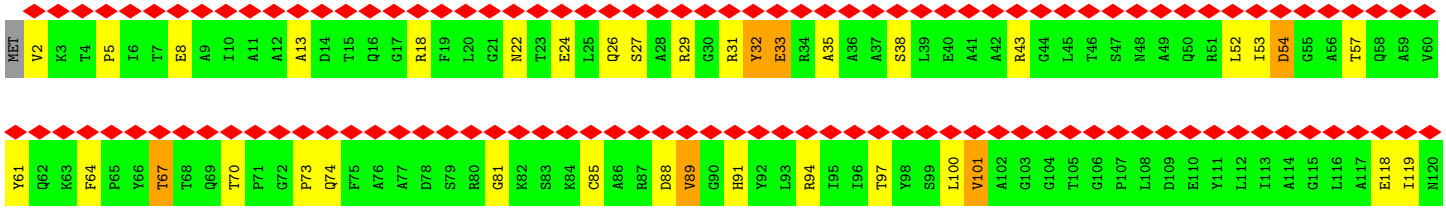




• Molecule 2: C-phycocyanin alpha subunit

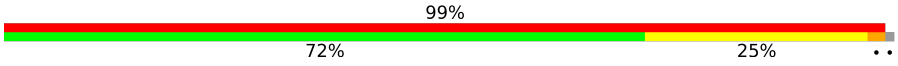
Chain H7:

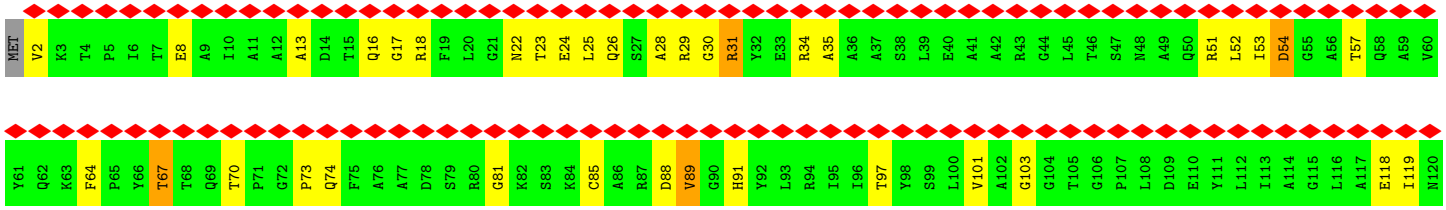




• Molecule 2: C-phycocyanin alpha subunit

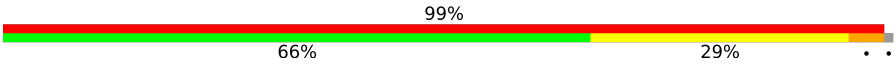
Chain J7:

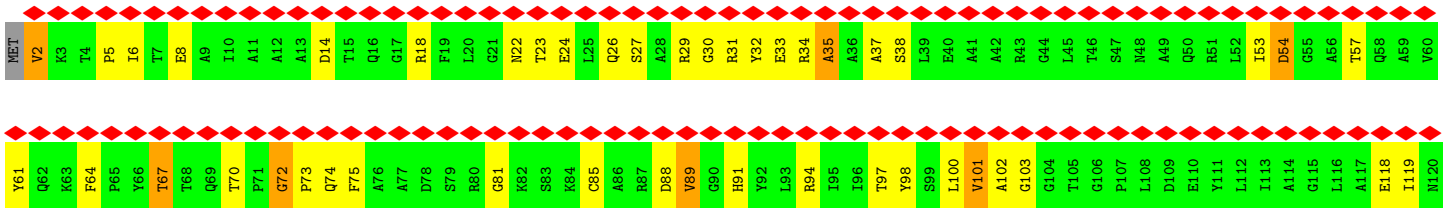




• Molecule 2: C-phycocyanin alpha subunit

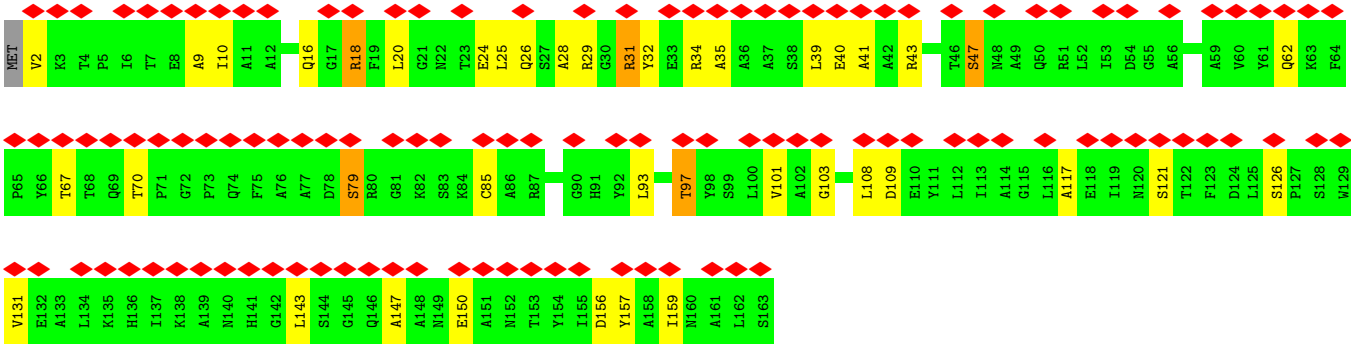
Chain L7:





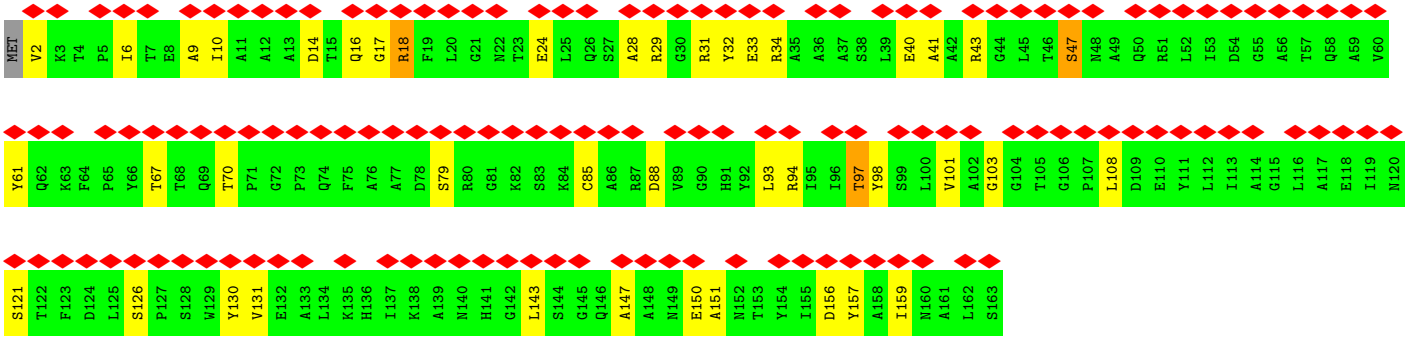
• Molecule 2: C-phycocyanin alpha subunit

Chain BA:



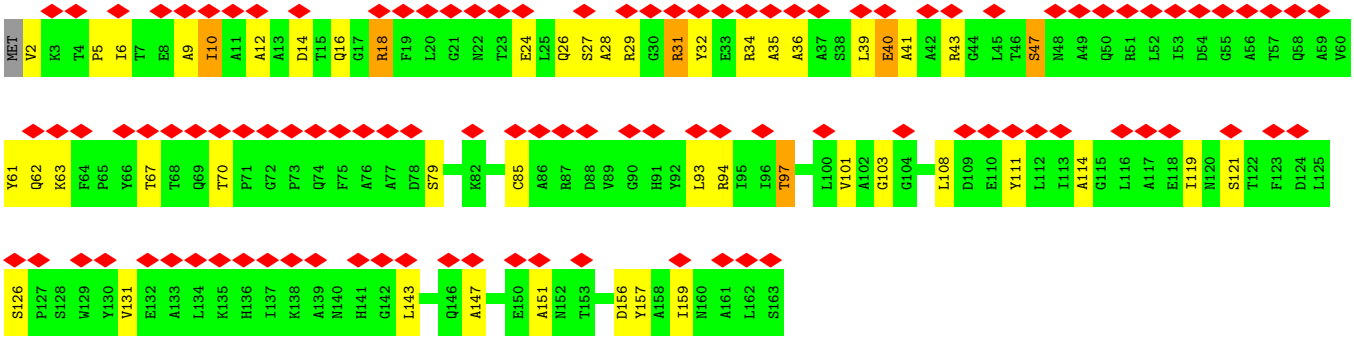
• Molecule 2: C-phycocyanin alpha subunit

Chain DA:



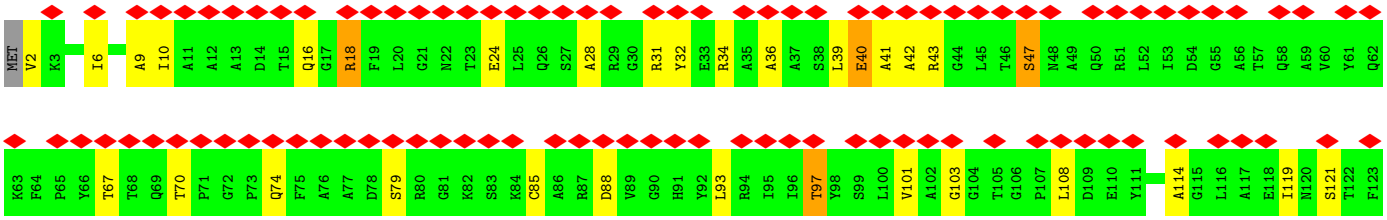
• Molecule 2: C-phycocyanin alpha subunit

Chain FA:



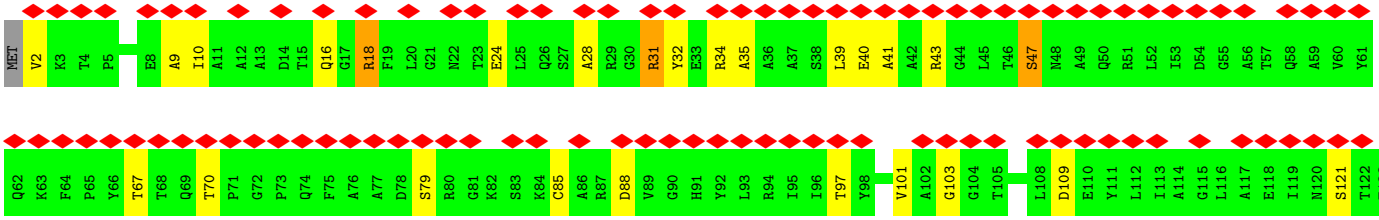
• Molecule 2: C-phycocyanin alpha subunit

Chain HA:



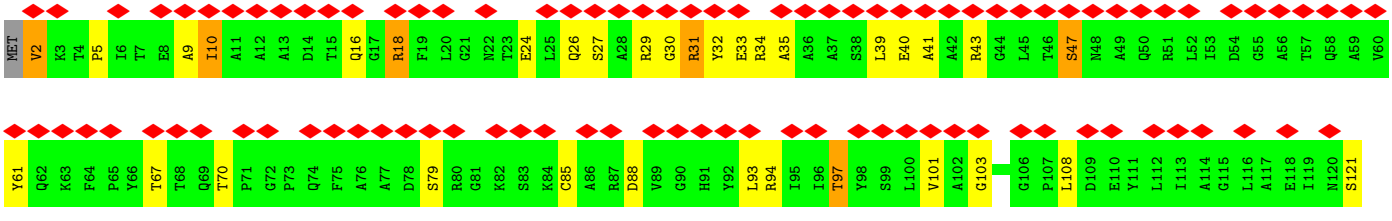
• Molecule 2: C-phycocyanin alpha subunit

Chain JA:



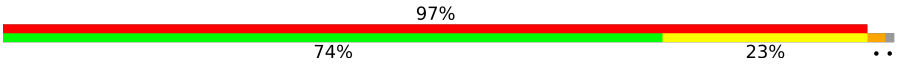
• Molecule 2: C-phycocyanin alpha subunit

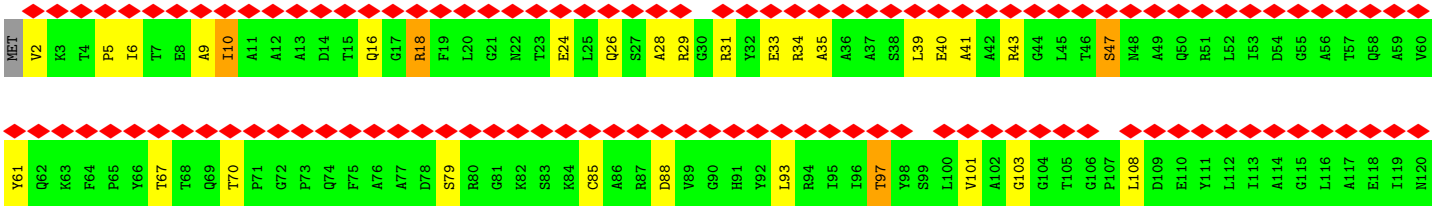
Chain LA:



• Molecule 2: C-phycocyanin alpha subunit

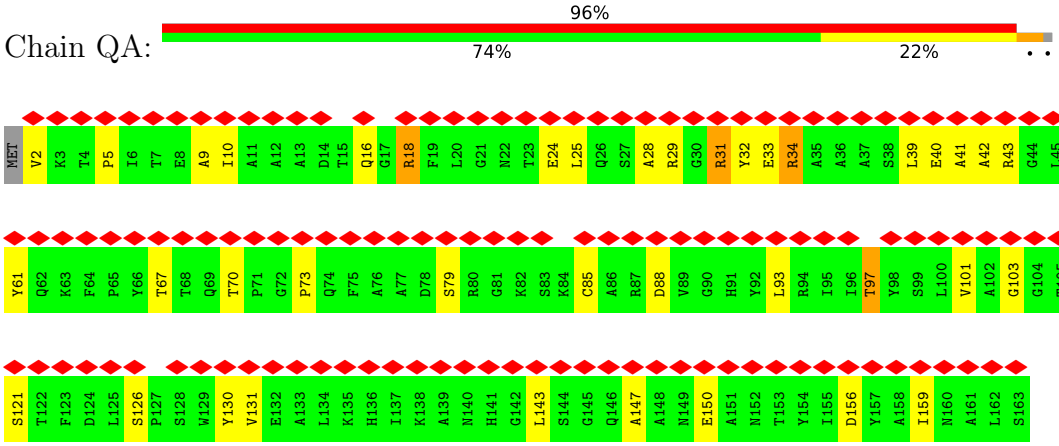
Chain OA:





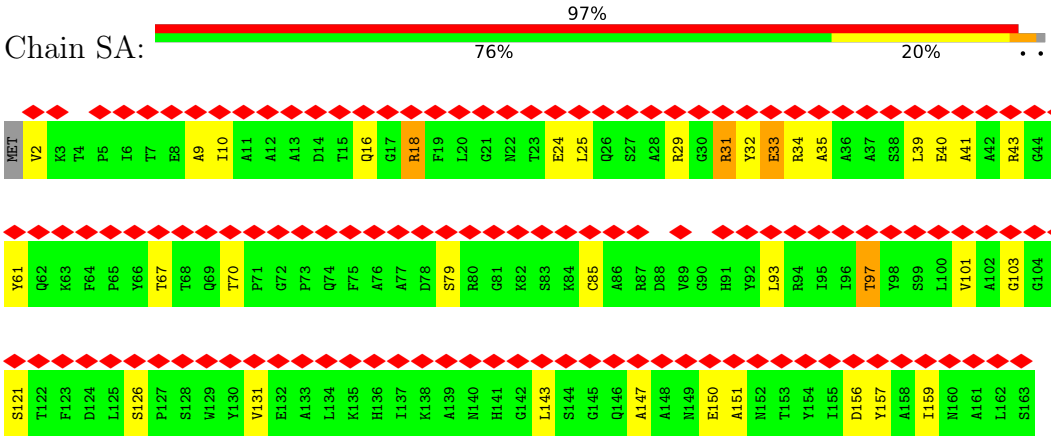
• Molecule 2: C-phycocyanin alpha subunit

Chain QA:



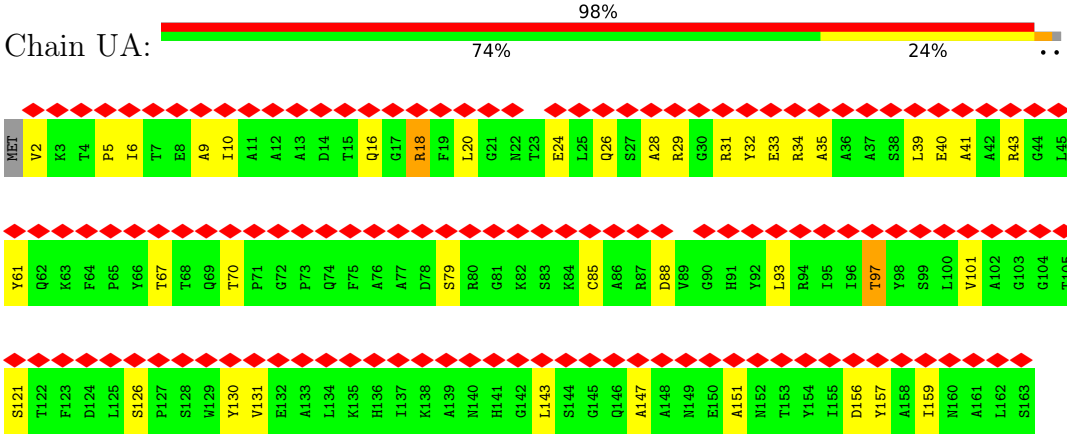
• Molecule 2: C-phycocyanin alpha subunit

Chain SA:



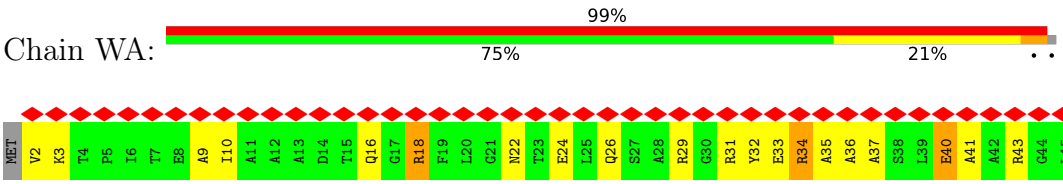
• Molecule 2: C-phycocyanin alpha subunit

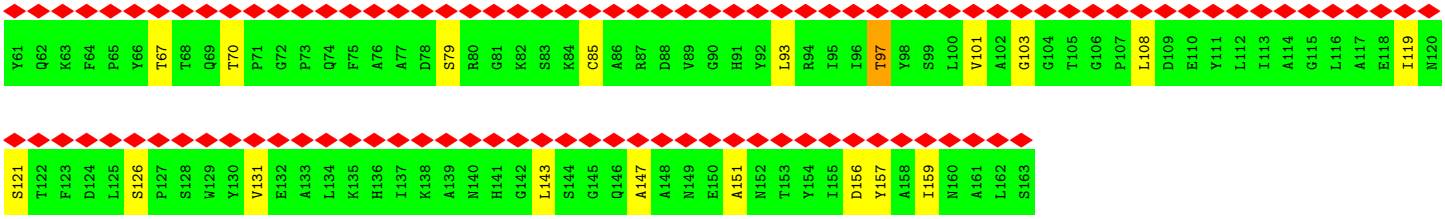
Chain UA:



• Molecule 2: C-phycocyanin alpha subunit

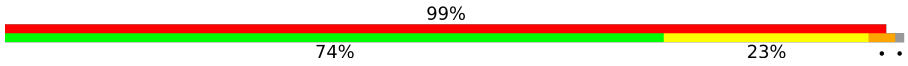
Chain WA:

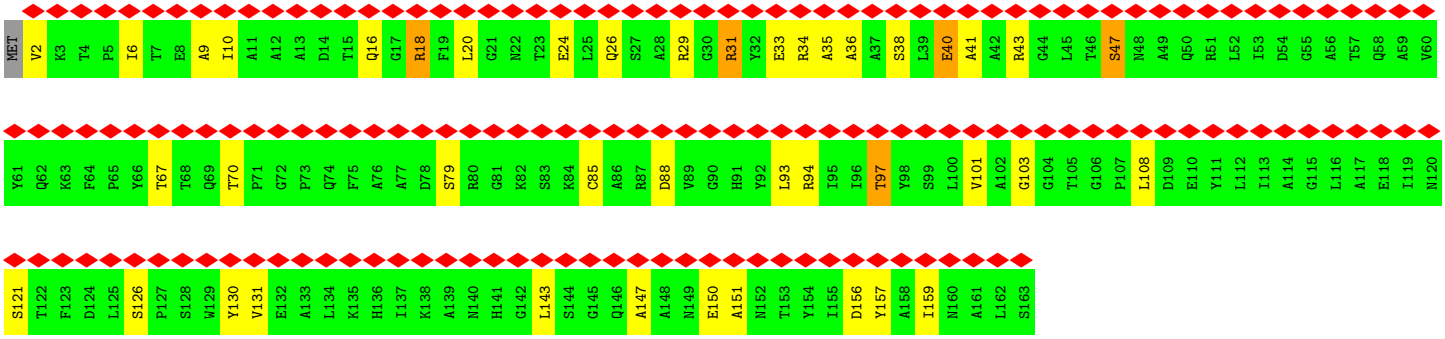




• Molecule 2: C-phycocyanin alpha subunit

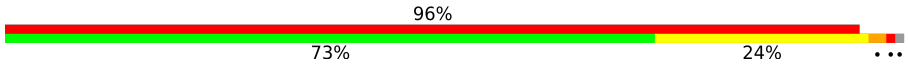
Chain YA:





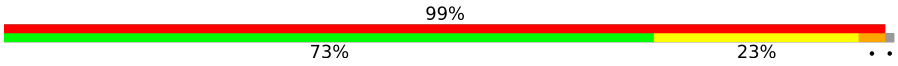
• Molecule 3: C-phycocyanin beta subunit

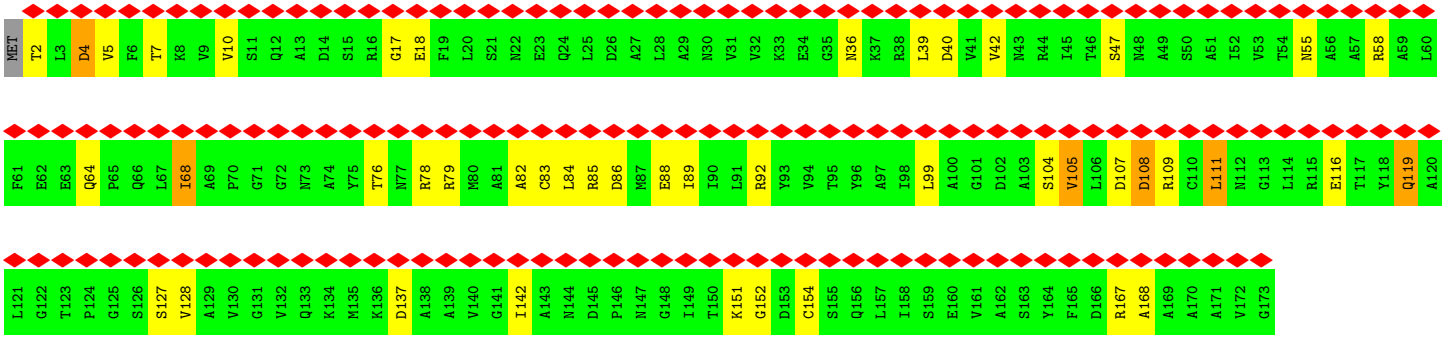
Chain C1:



• Molecule 3: C-phycocyanin beta subunit

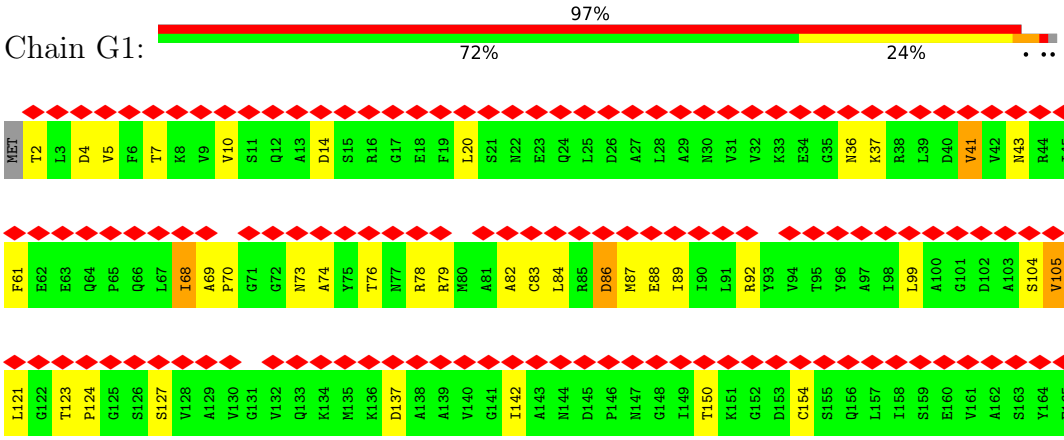
Chain E1:





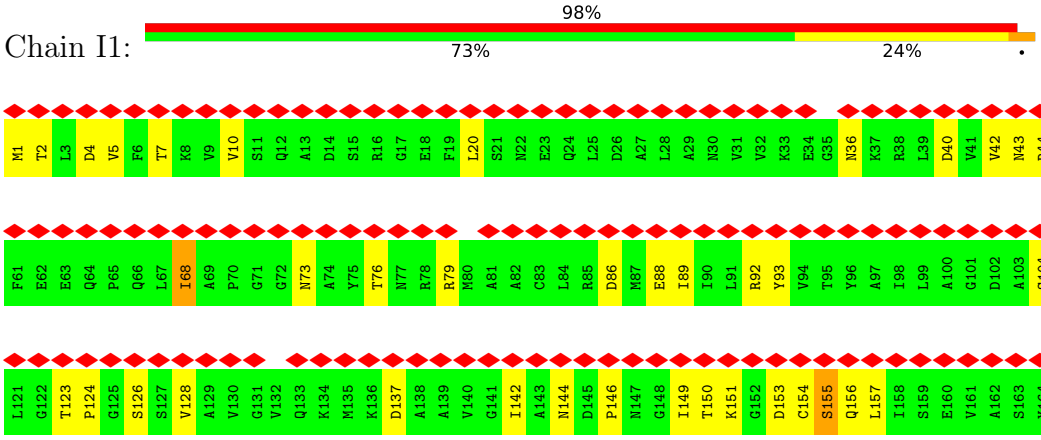
• Molecule 3: C-phycocyanin beta subunit

Chain G1:



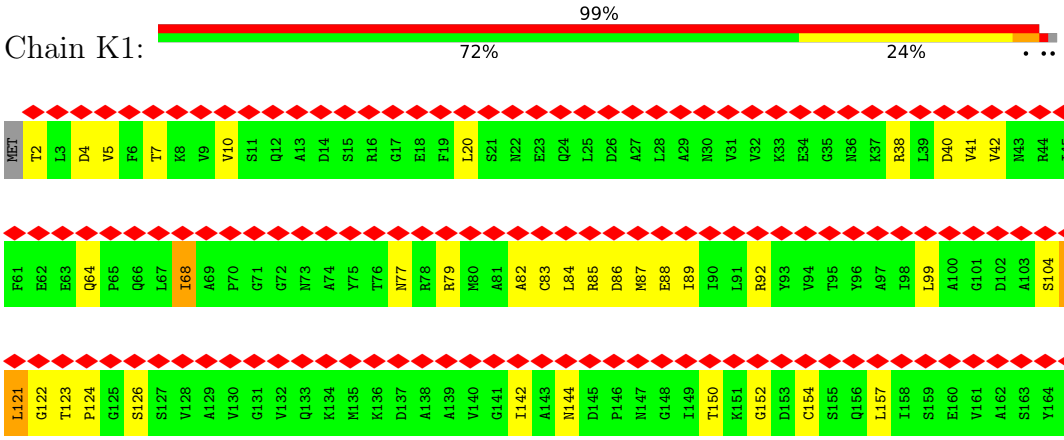
• Molecule 3: C-phycocyanin beta subunit

Chain I1:



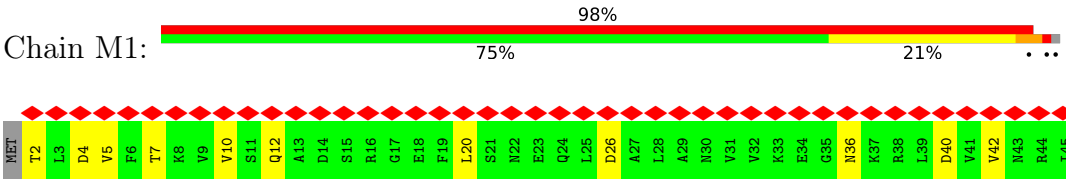
• Molecule 3: C-phycocyanin beta subunit

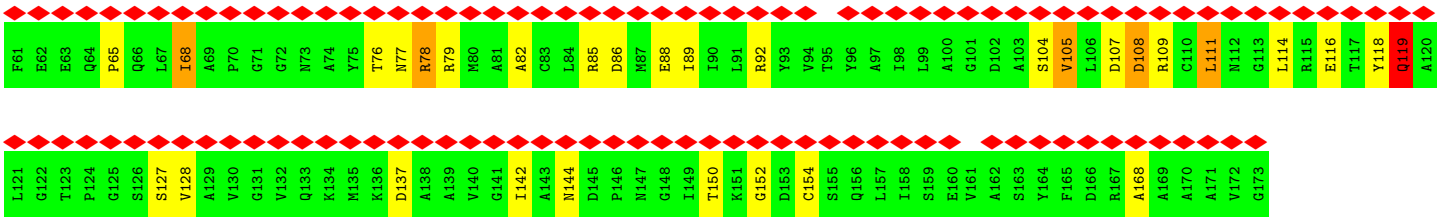
Chain K1:



• Molecule 3: C-phycocyanin beta subunit

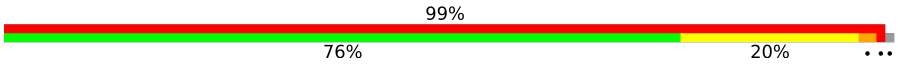
Chain M1:

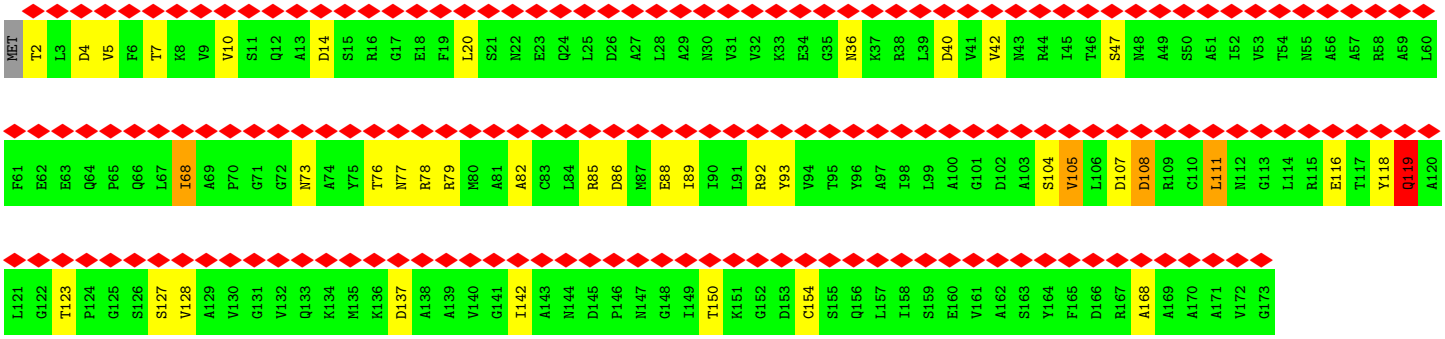




• Molecule 3: C-phycocyanin beta subunit

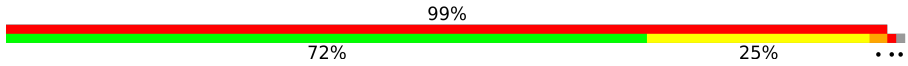
Chain P1:





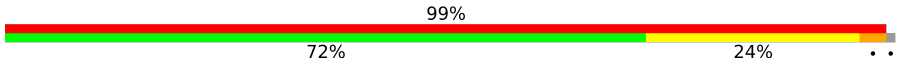
• Molecule 3: C-phycocyanin beta subunit

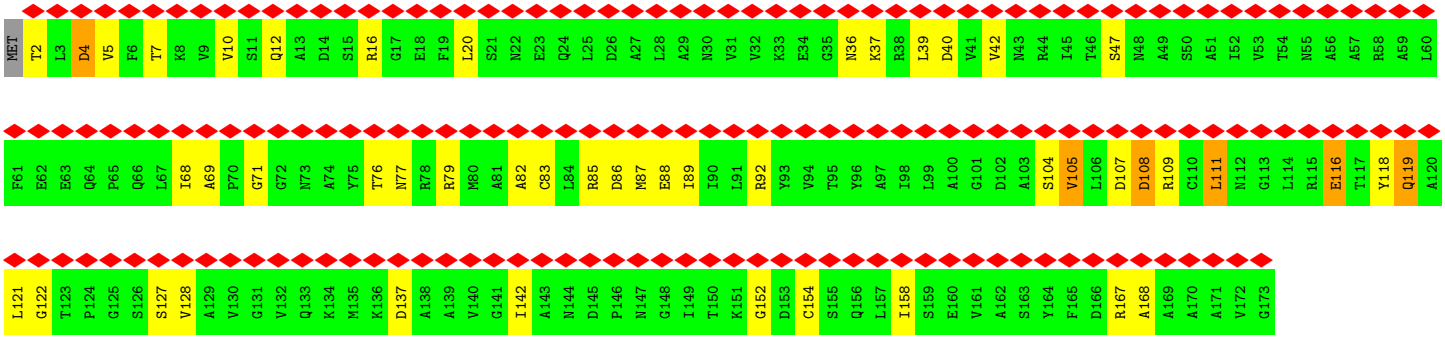
Chain R1:



• Molecule 3: C-phycocyanin beta subunit

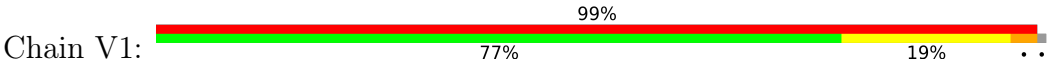
Chain T1:

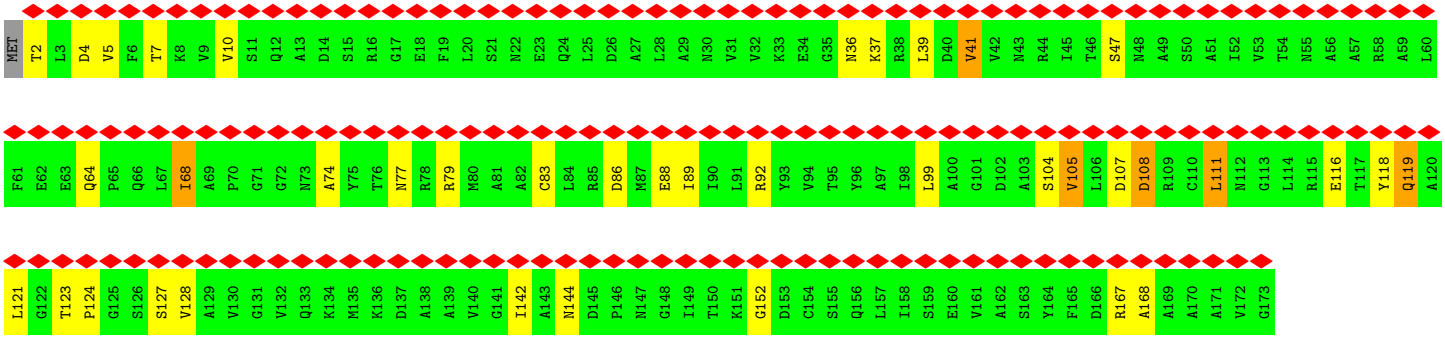




• Molecule 3: C-phycocyanin beta subunit

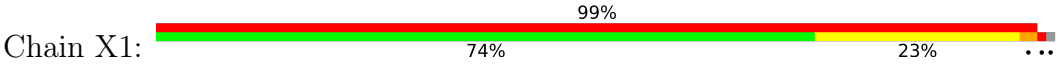
Chain V1:

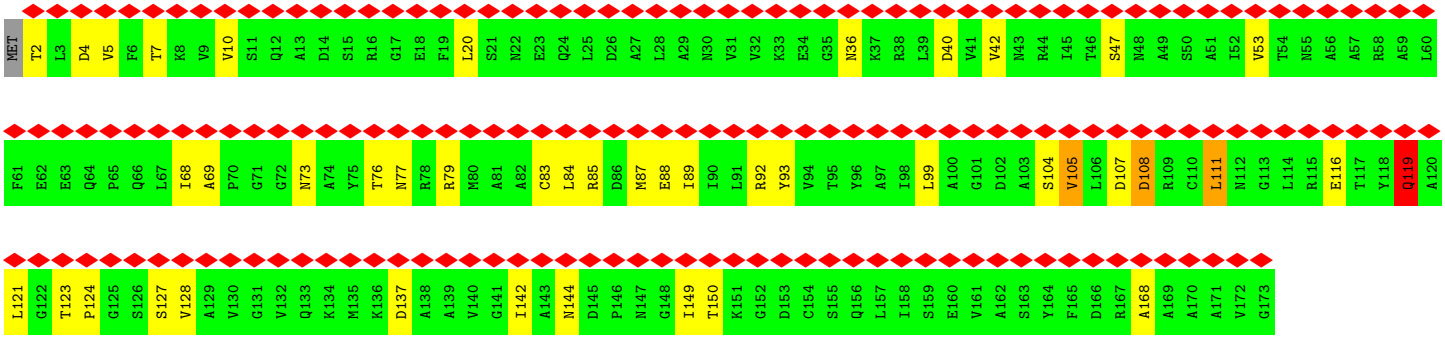




• Molecule 3: C-phycocyanin beta subunit

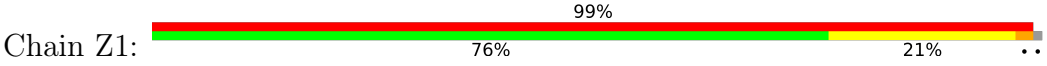
Chain X1:

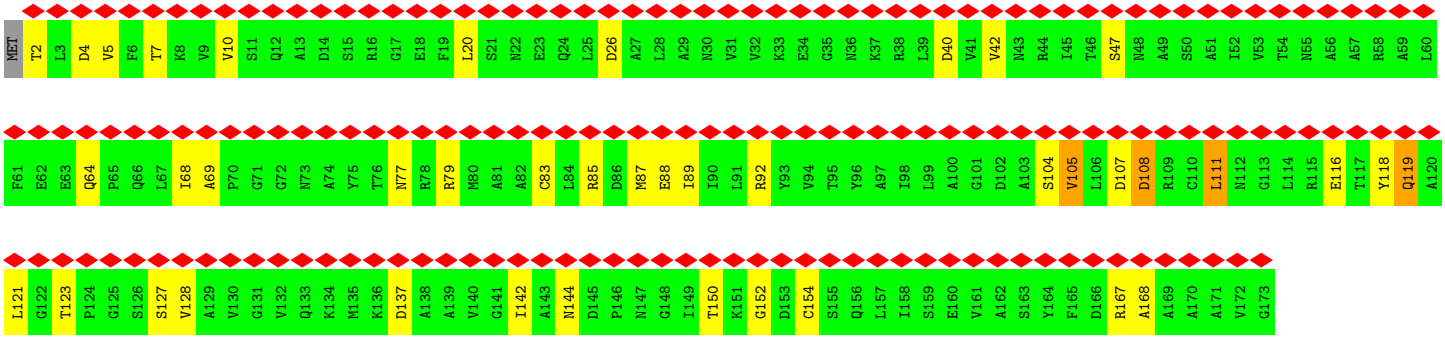




• Molecule 3: C-phycocyanin beta subunit

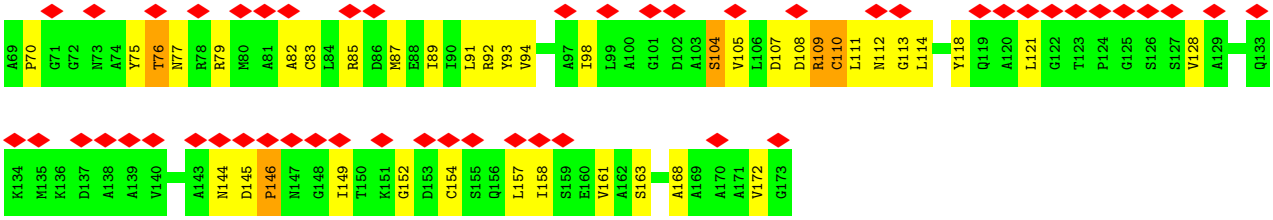
Chain Z1:





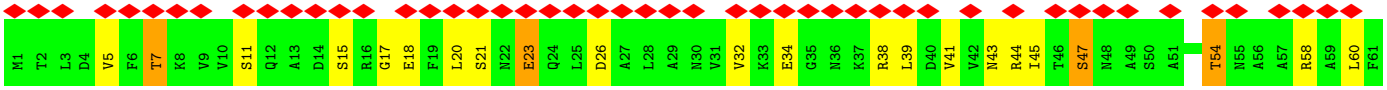
• Molecule 3: C-phycocyanin beta subunit

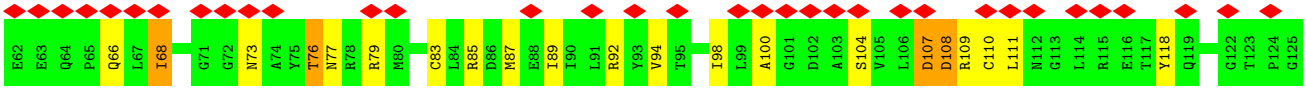
Chain C2:

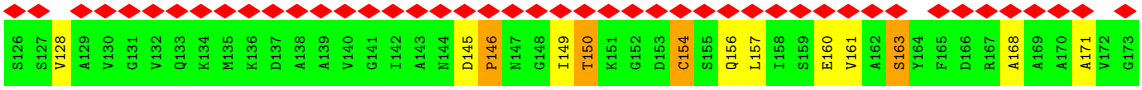


• Molecule 3: C-phycocyanin beta subunit

Chain E2:

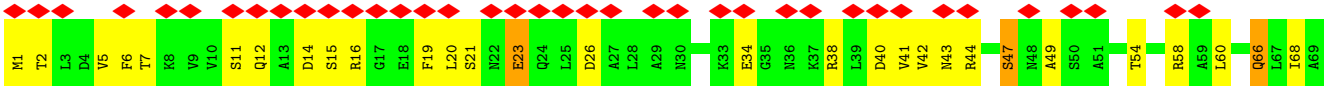


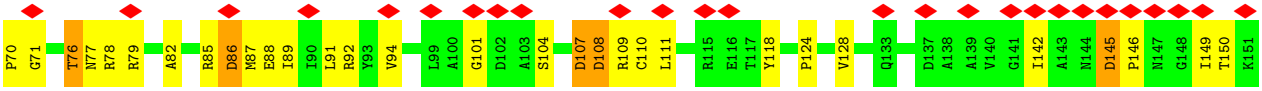




• Molecule 3: C-phycocyanin beta subunit

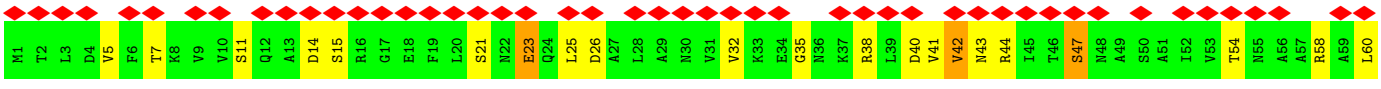
Chain G2:

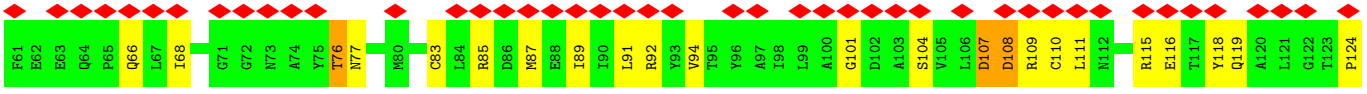


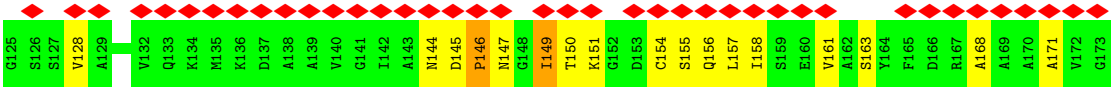


• Molecule 3: C-phycocyanin beta subunit

Chain I2:

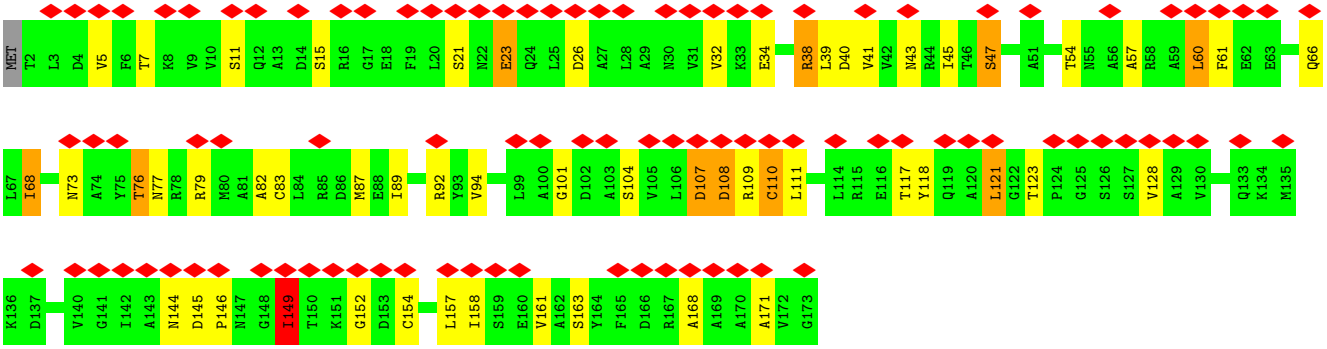






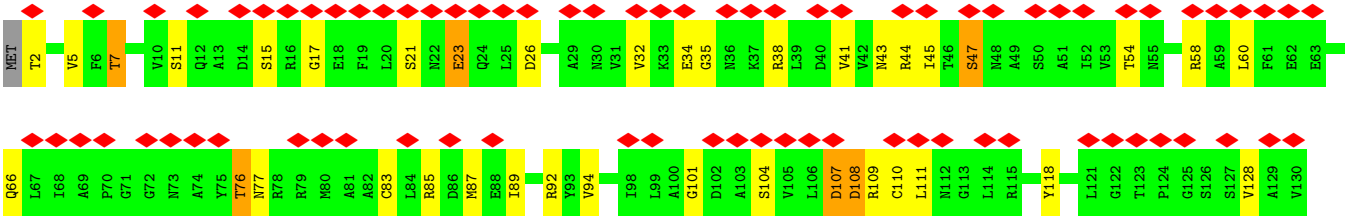
• Molecule 3: C-phycocyanin beta subunit

Chain K2:



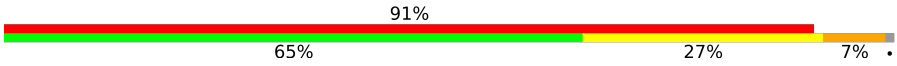
• Molecule 3: C-phycocyanin beta subunit

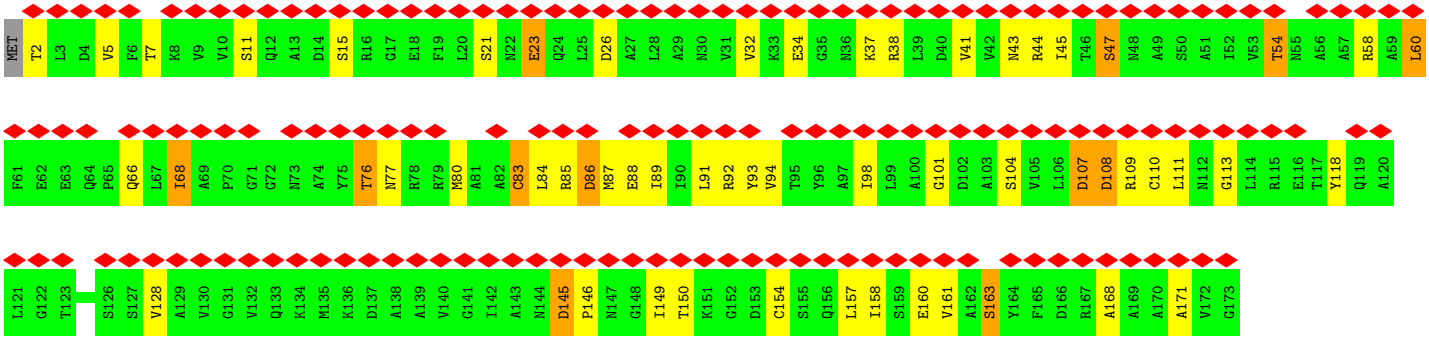
Chain M2:



• Molecule 3: C-phycocyanin beta subunit

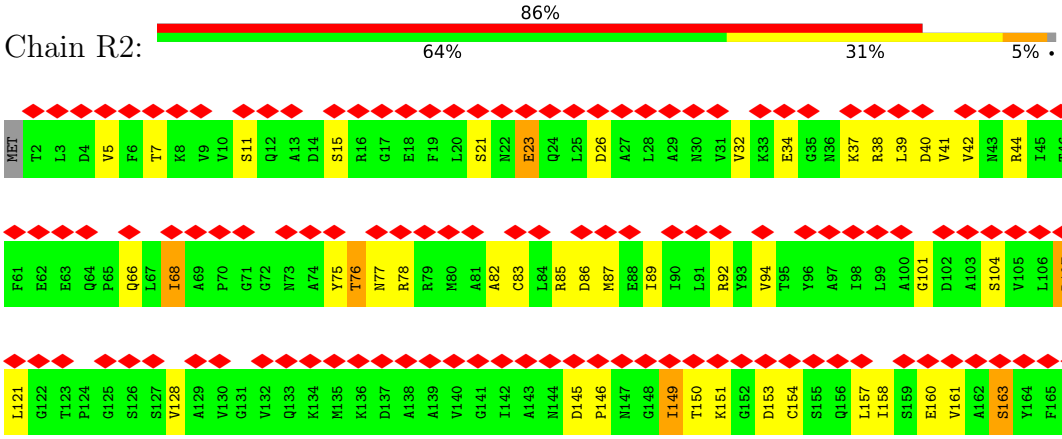
Chain P2:





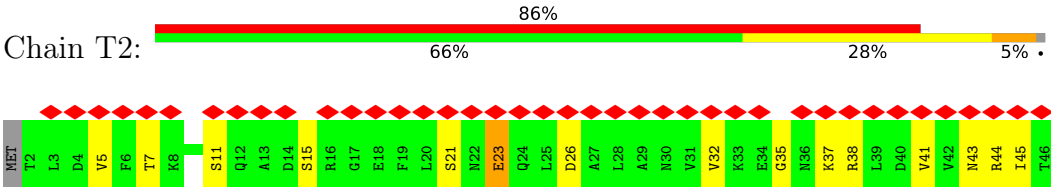
• Molecule 3: C-phycocyanin beta subunit

Chain R2:



• Molecule 3: C-phycocyanin beta subunit

Chain T2:

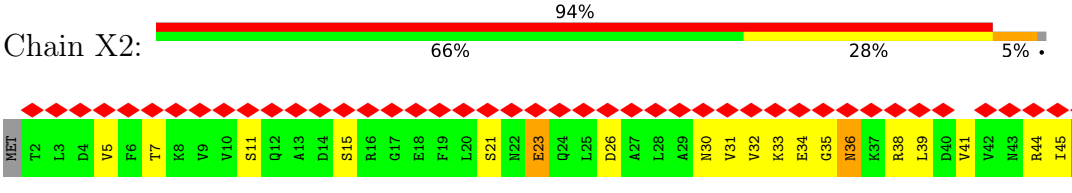


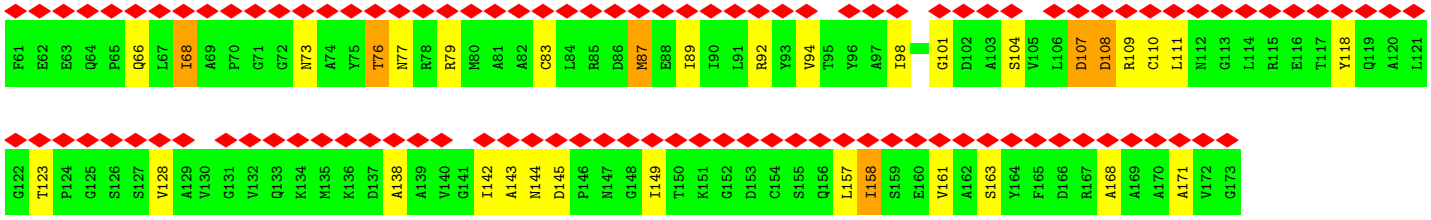
• Molecule 3: C-phycocyanin beta subunit

Chain V2:

• Molecule 3: C-phycocyanin beta subunit

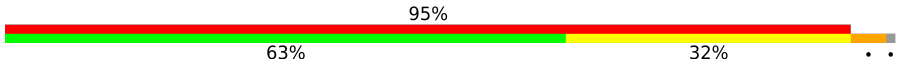
Chain X2:





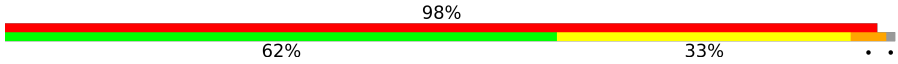
• Molecule 3: C-phycocyanin beta subunit

Chain Z2:



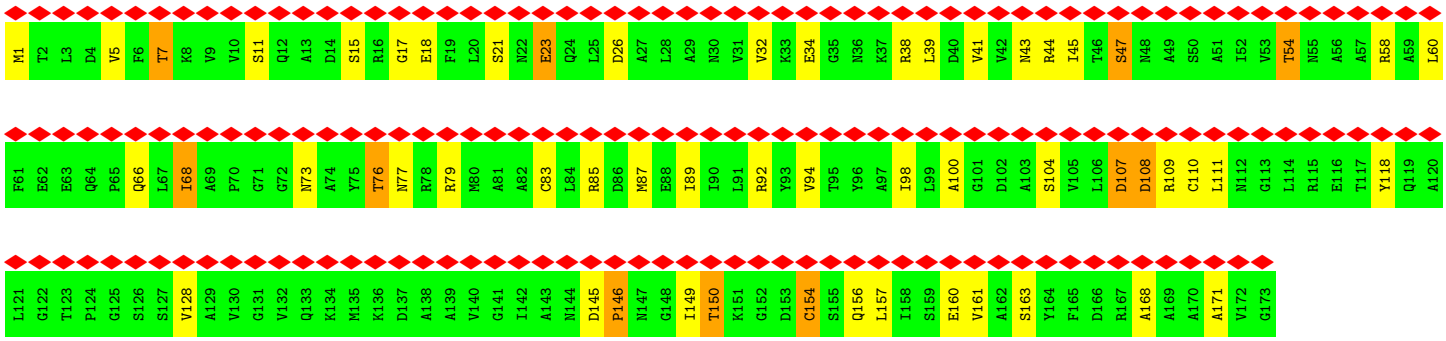
• Molecule 3: C-phycocyanin beta subunit

Chain C3:



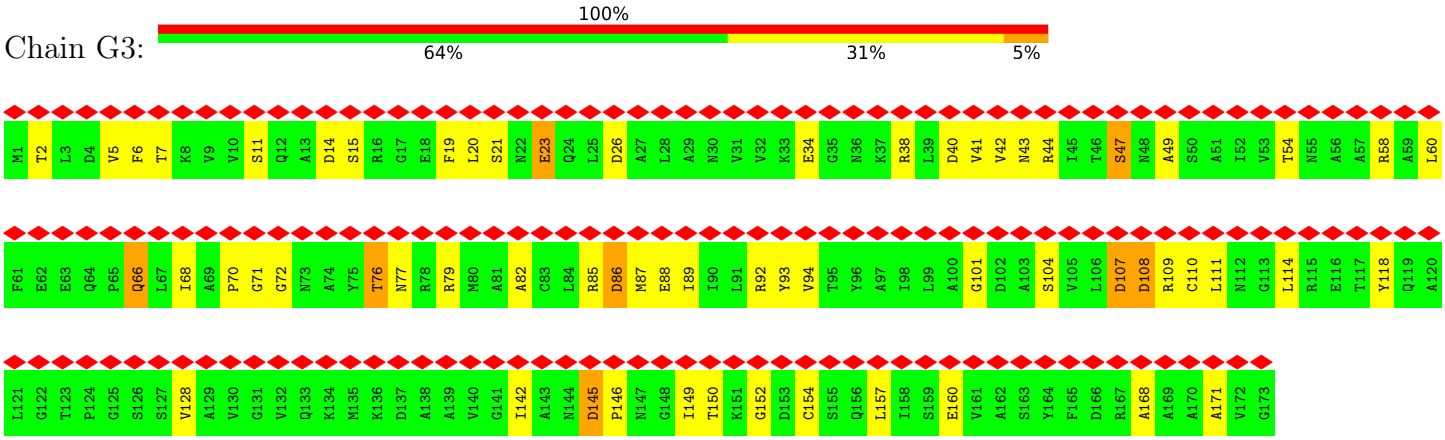
• Molecule 3: C-phycocyanin beta subunit

Chain E3:



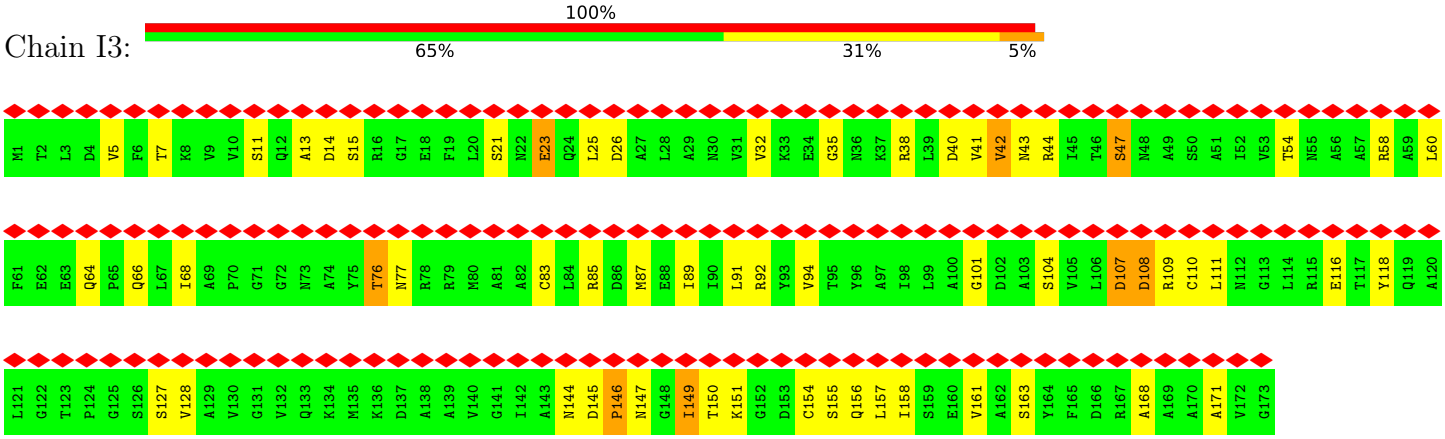
• Molecule 3: C-phycocyanin beta subunit

Chain G3:



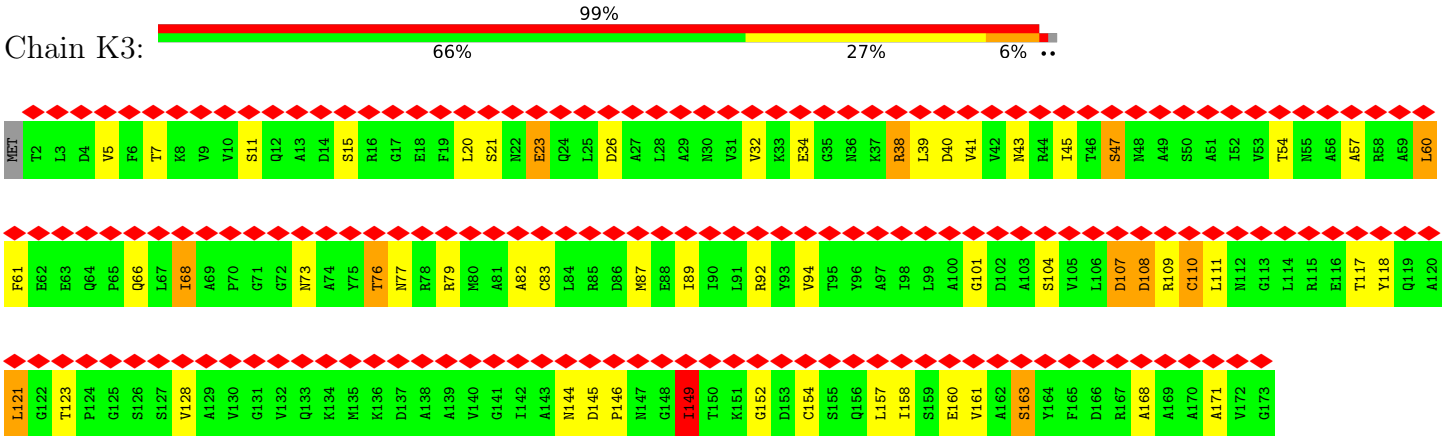
• Molecule 3: C-phycocyanin beta subunit

Chain I3:



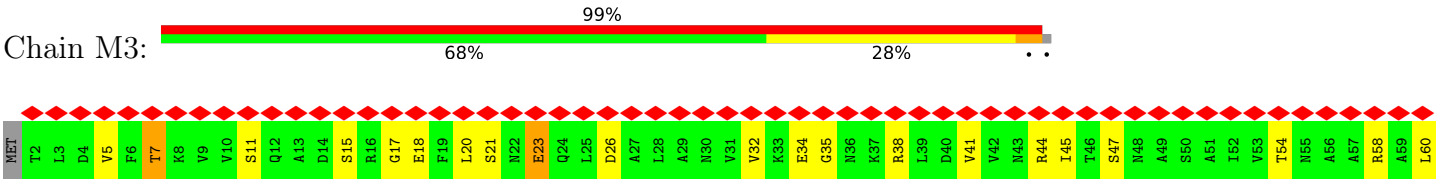
• Molecule 3: C-phycocyanin beta subunit

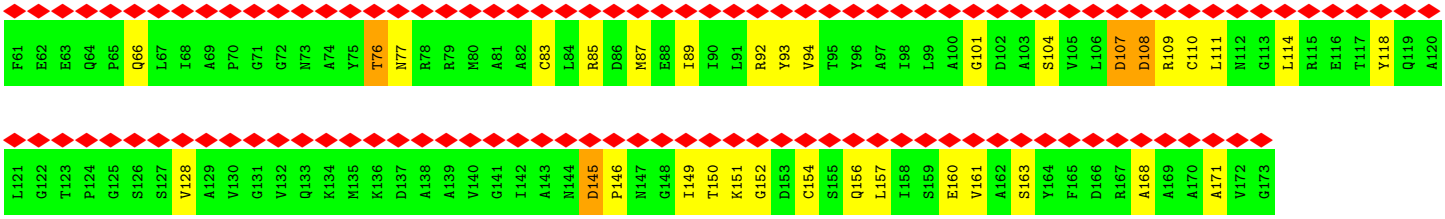
Chain K3:



• Molecule 3: C-phycocyanin beta subunit

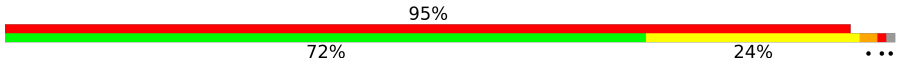
Chain M3:

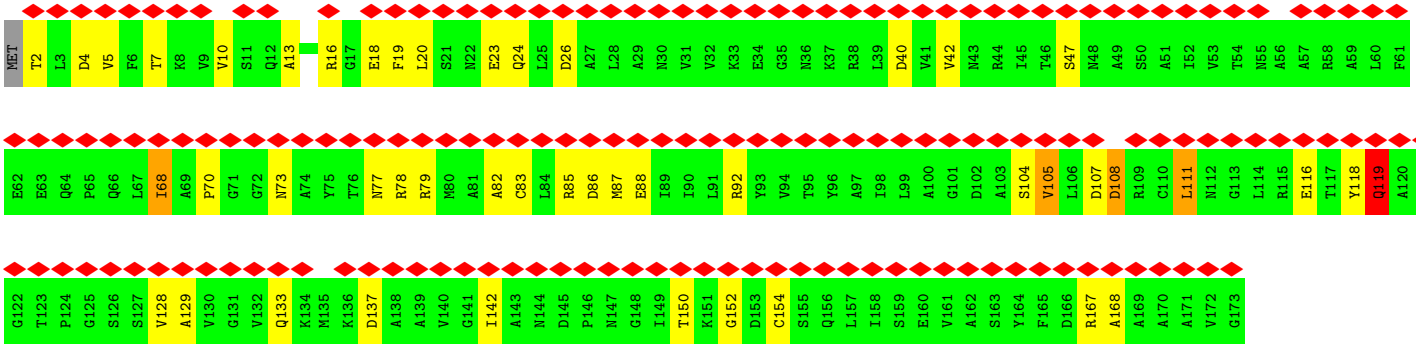




• Molecule 3: C-phycocyanin beta subunit

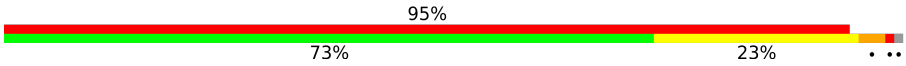
Chain C4:

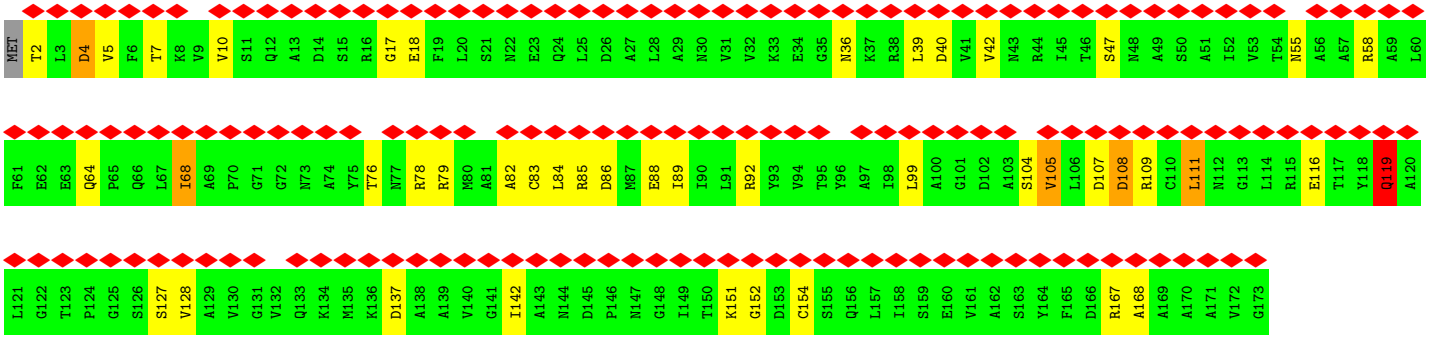




• Molecule 3: C-phycocyanin beta subunit

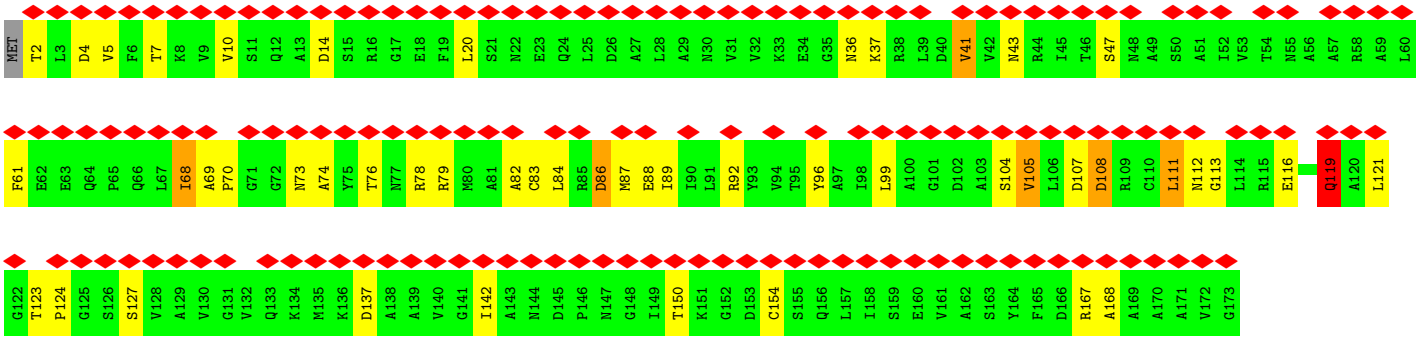
Chain E4:





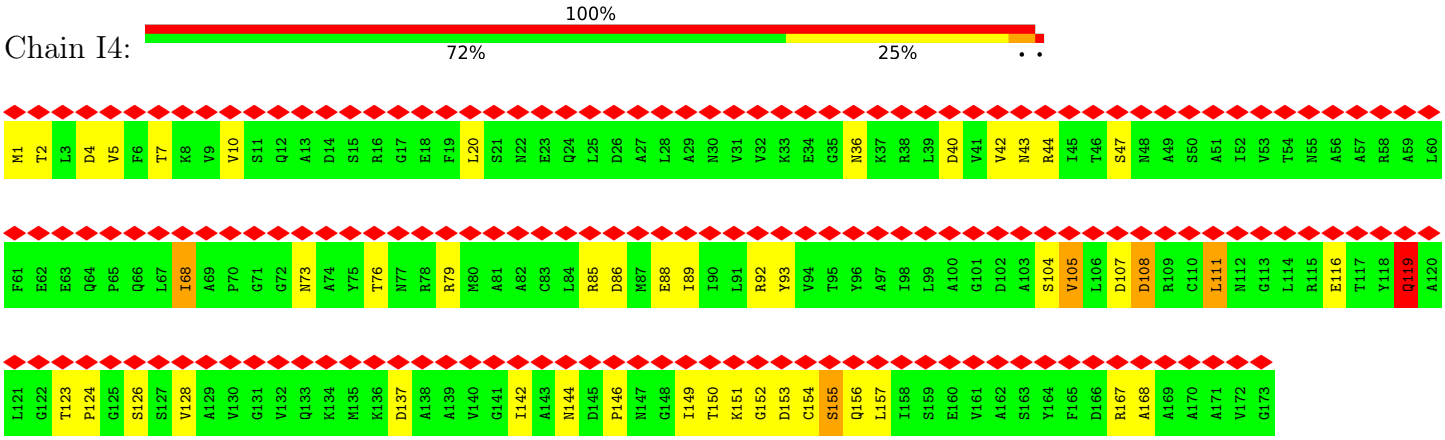
• Molecule 3: C-phycocyanin beta subunit

Chain G4:



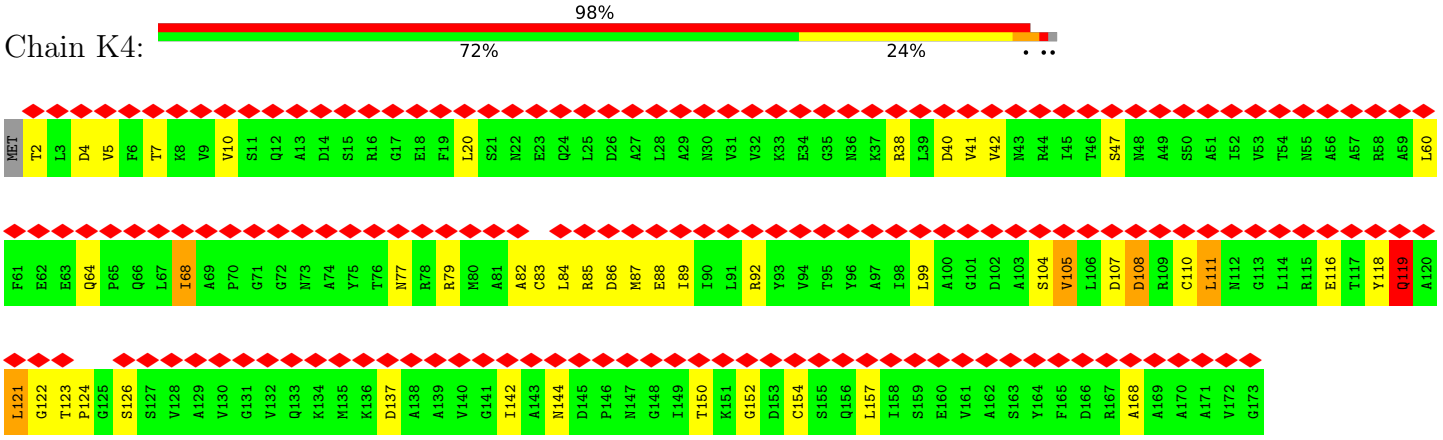
• Molecule 3: C-phycocyanin beta subunit

Chain I4:



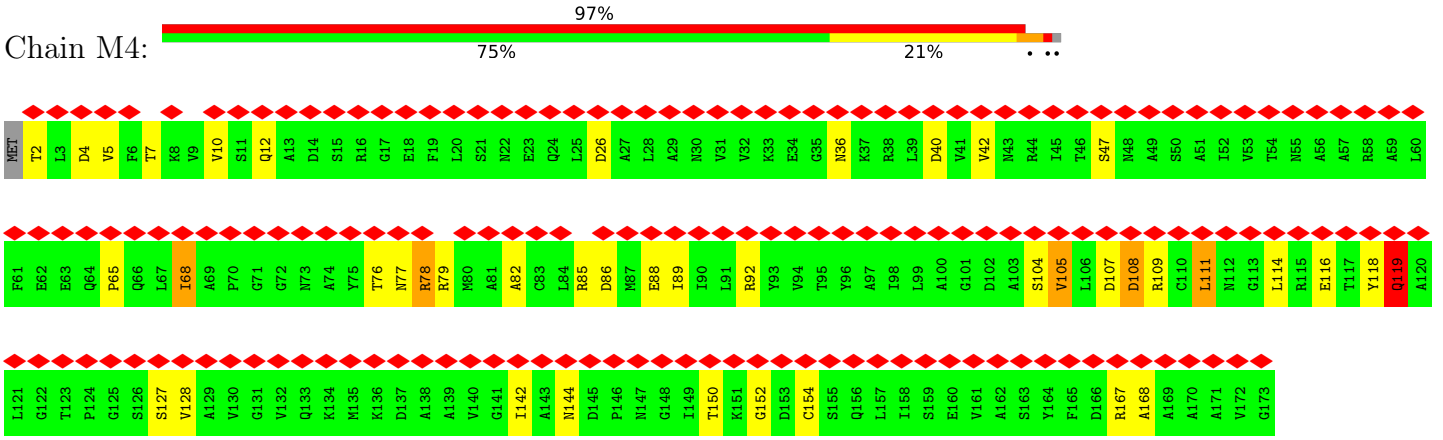
• Molecule 3: C-phycocyanin beta subunit

Chain K4:



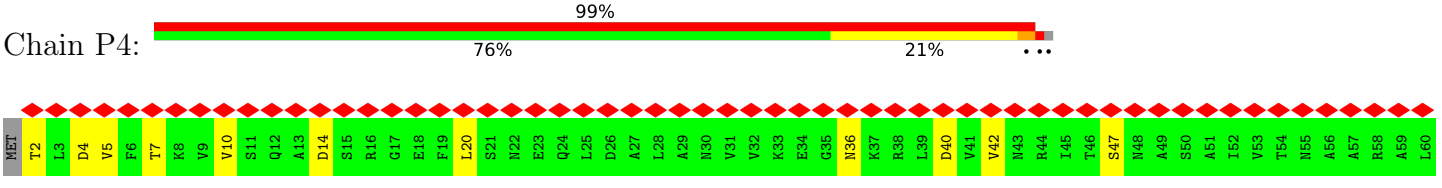
• Molecule 3: C-phycocyanin beta subunit

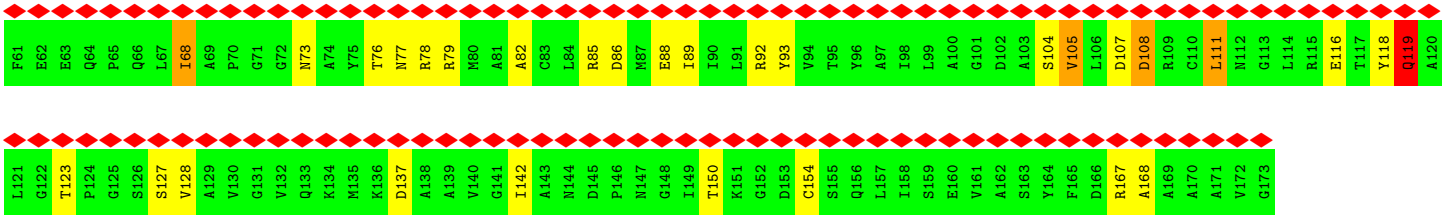
Chain M4:



• Molecule 3: C-phycocyanin beta subunit

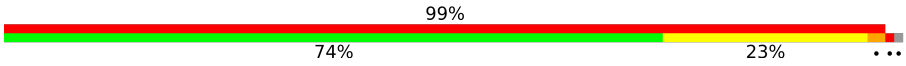
Chain P4:

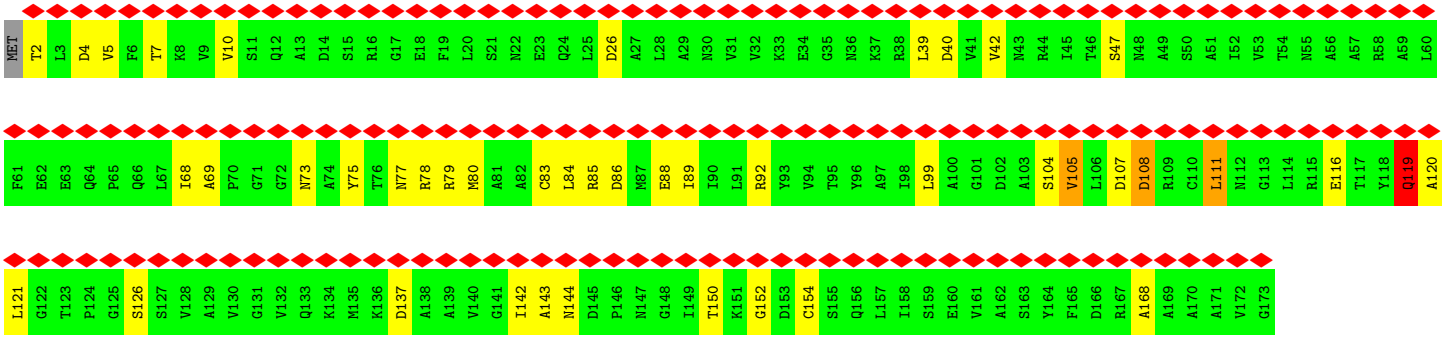




• Molecule 3: C-phycocyanin beta subunit

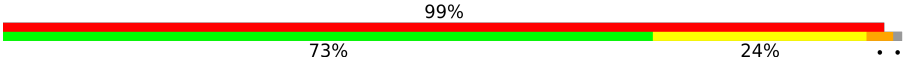
Chain R4:

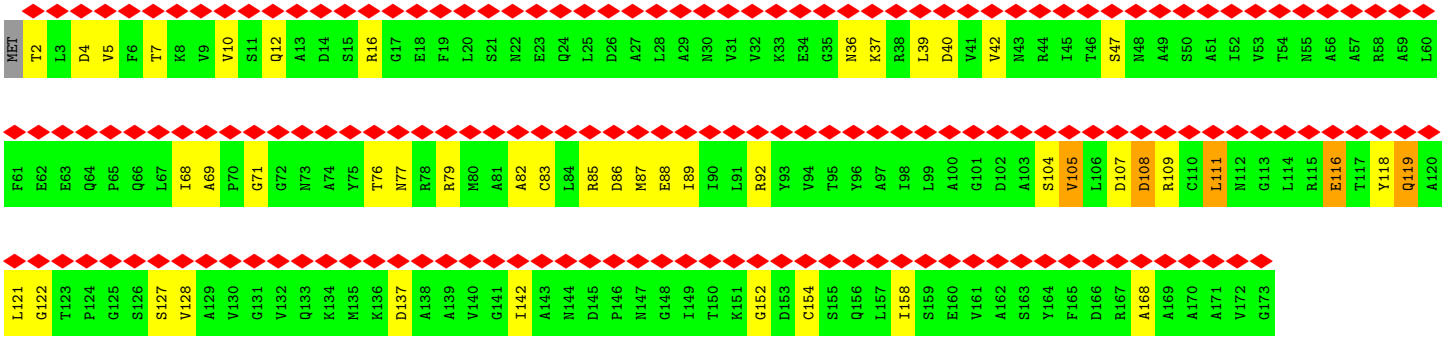




• Molecule 3: C-phycocyanin beta subunit

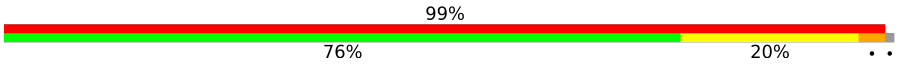
Chain T4:

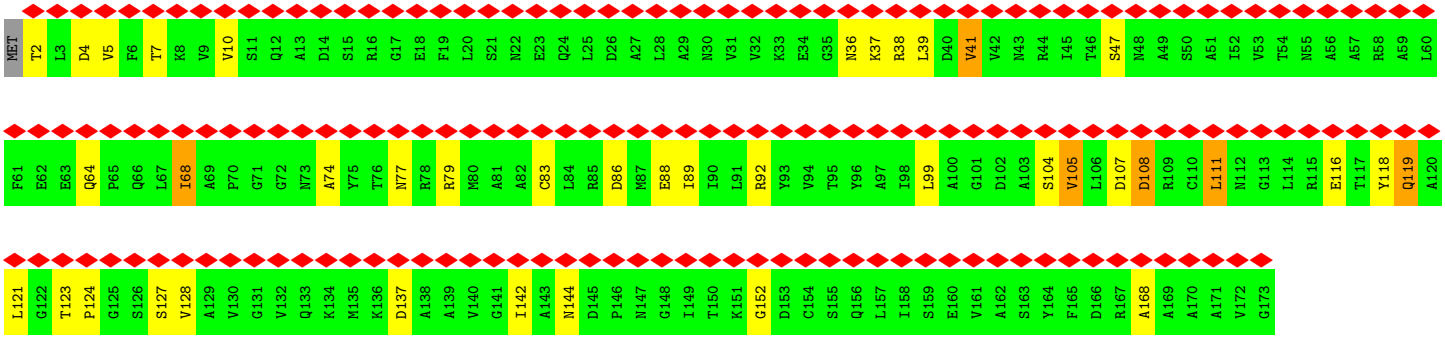




• Molecule 3: C-phycocyanin beta subunit

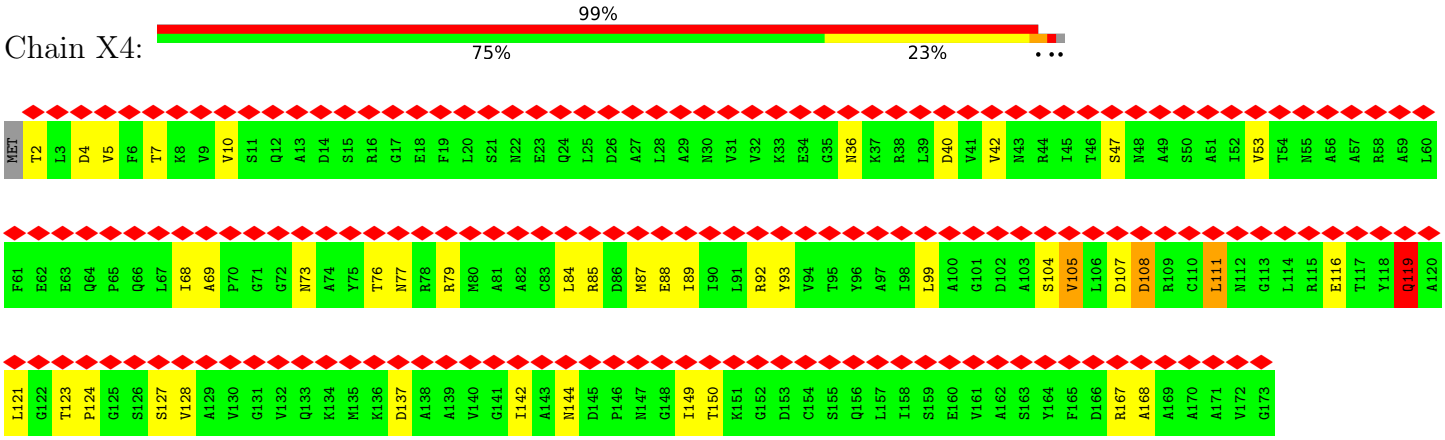
Chain V4:





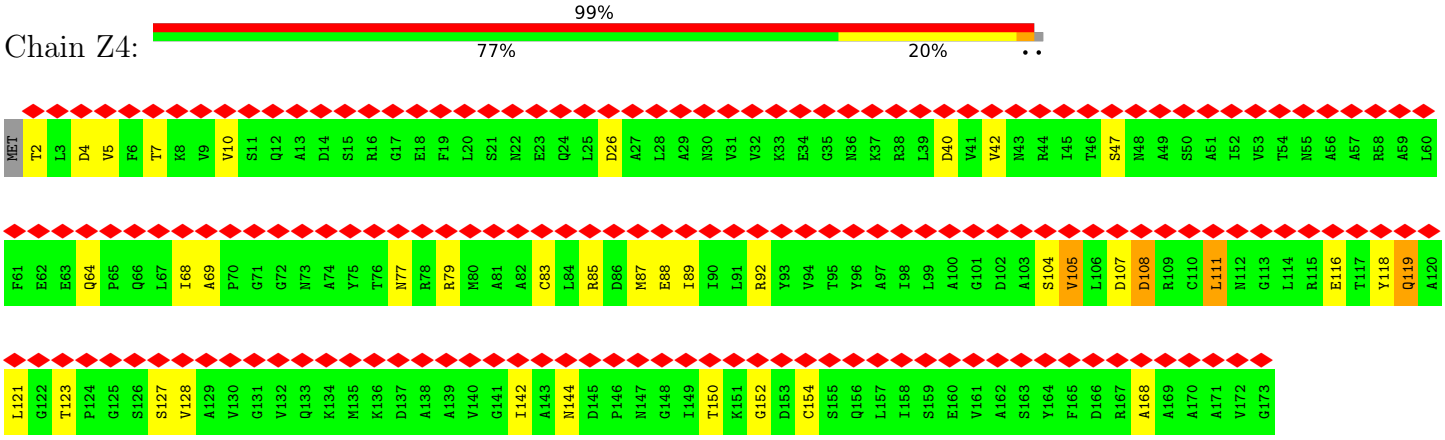
• Molecule 3: C-phycocyanin beta subunit

Chain X4:



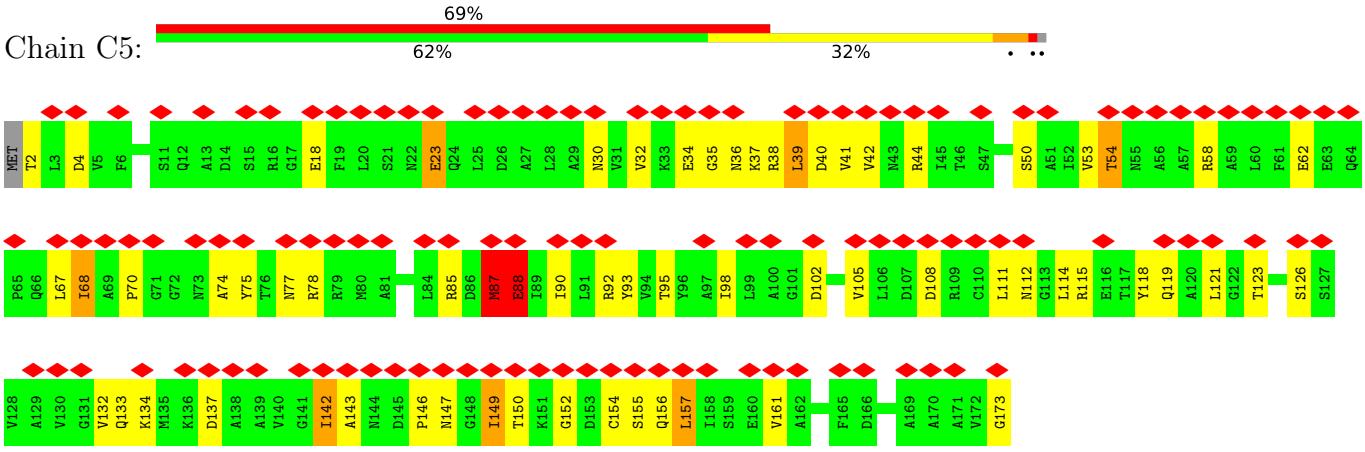
• Molecule 3: C-phycocyanin beta subunit

Chain Z4:



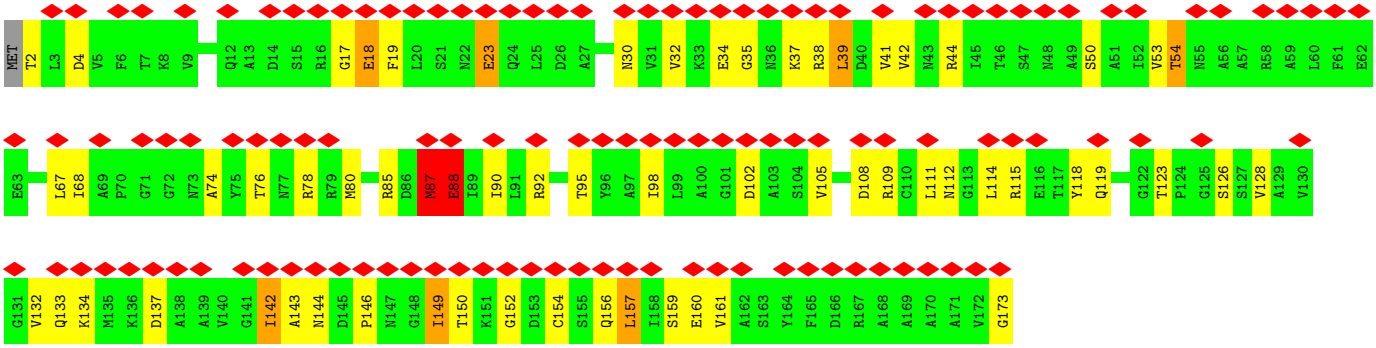
• Molecule 3: C-phycocyanin beta subunit

Chain C5:



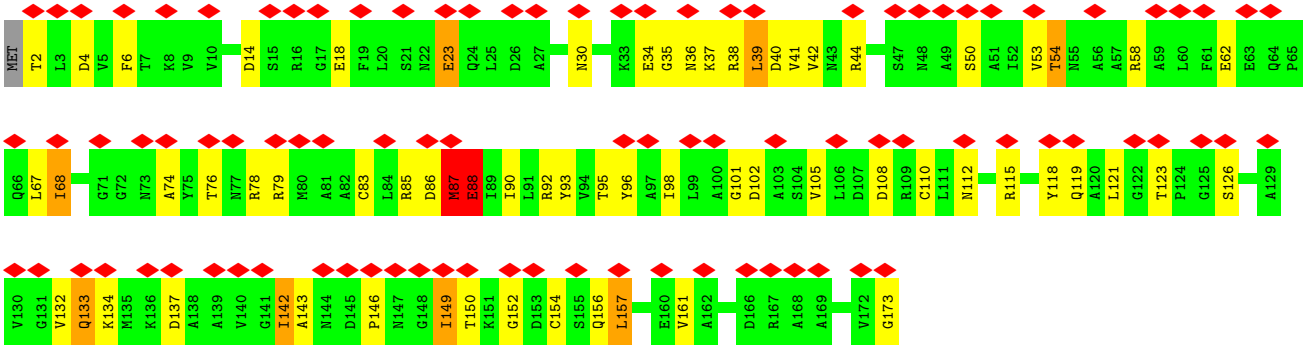
• Molecule 3: C-phycocyanin beta subunit

Chain E5:



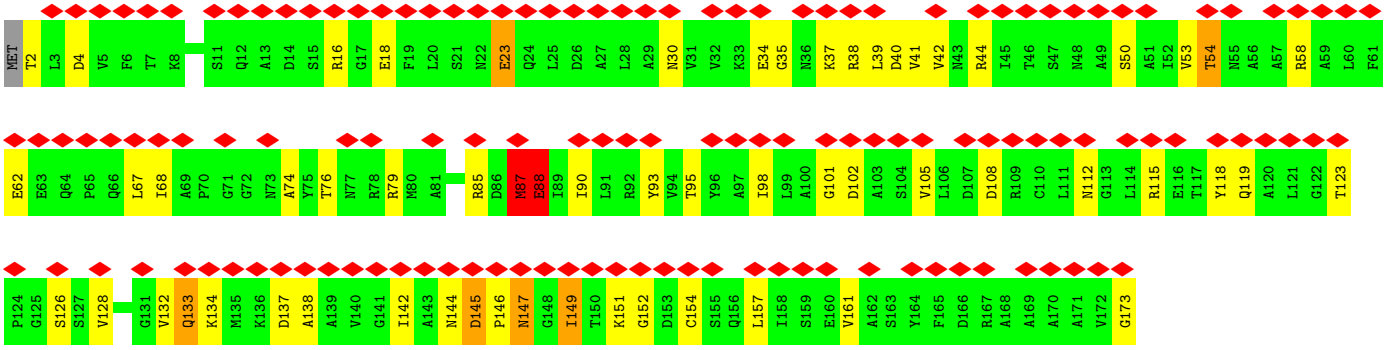
• Molecule 3: C-phycocyanin beta subunit

Chain G5:



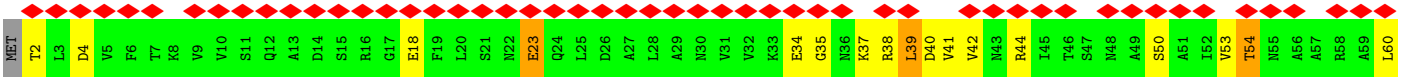
• Molecule 3: C-phycocyanin beta subunit

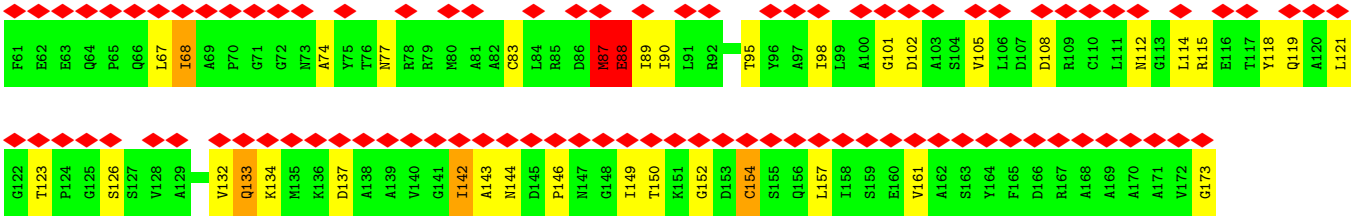
Chain I5:



• Molecule 3: C-phycocyanin beta subunit

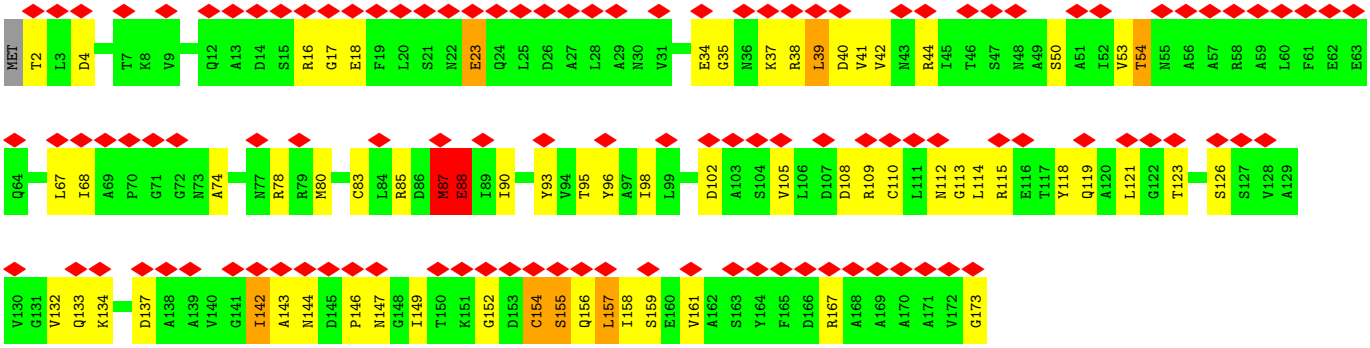
Chain K5:





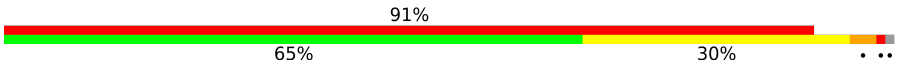
• Molecule 3: C-phycocyanin beta subunit

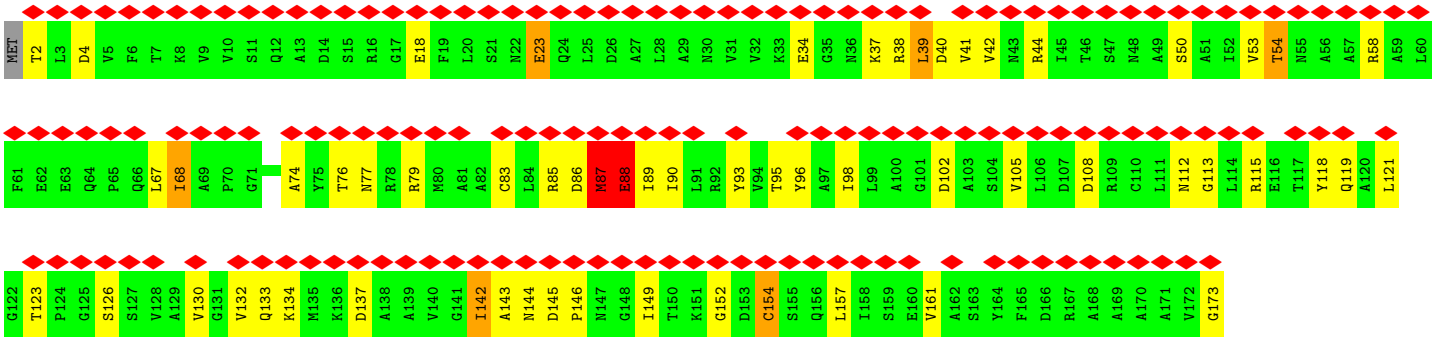
Chain M5:



• Molecule 3: C-phycocyanin beta subunit

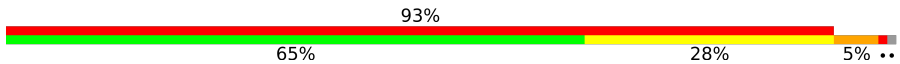
Chain P5:

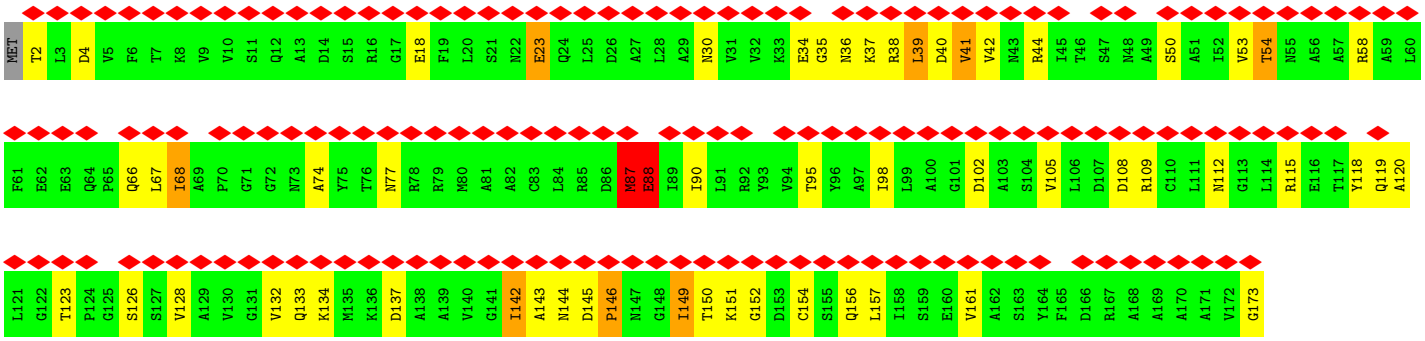




• Molecule 3: C-phycocyanin beta subunit

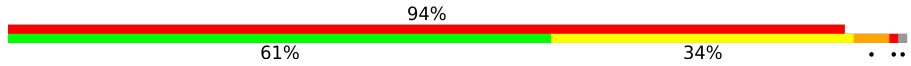
Chain R5:

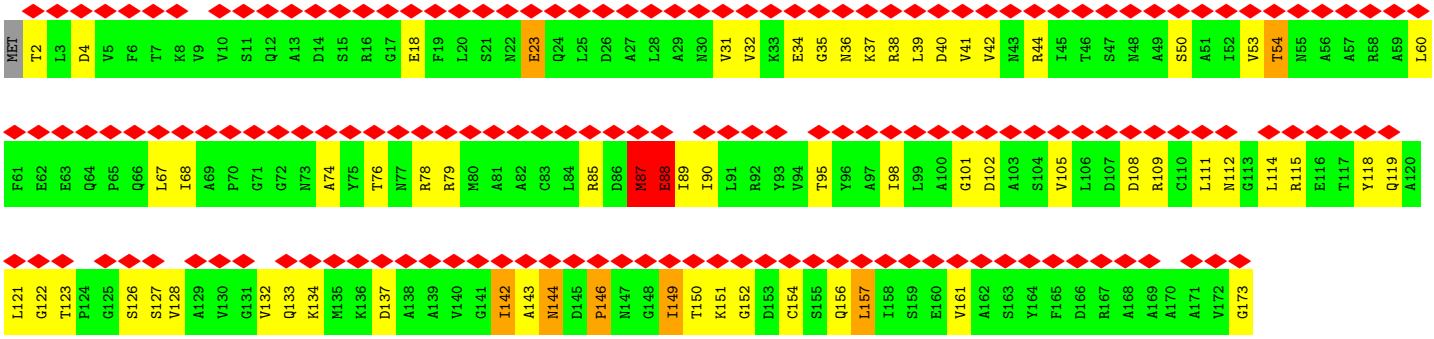




• Molecule 3: C-phycocyanin beta subunit

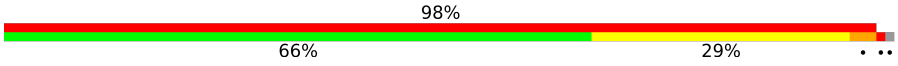
Chain T5:

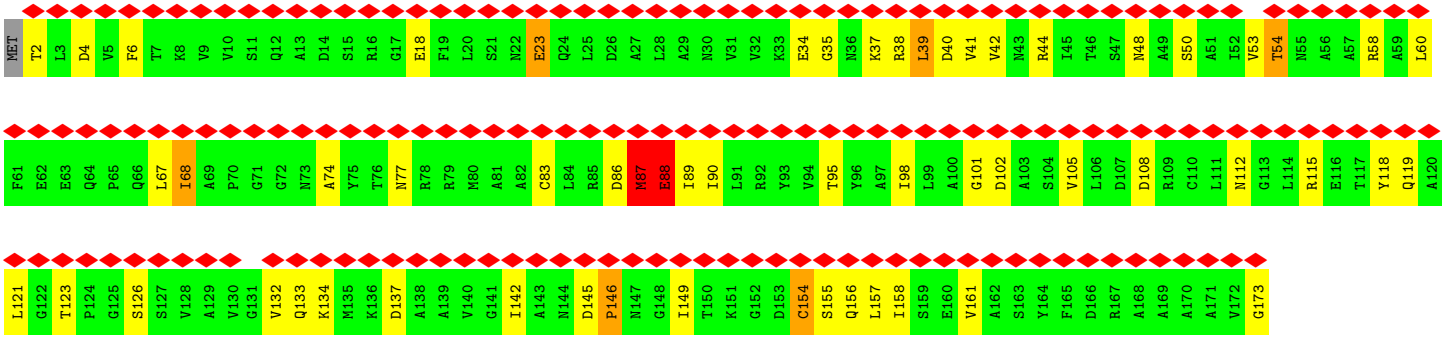




• Molecule 3: C-phycocyanin beta subunit

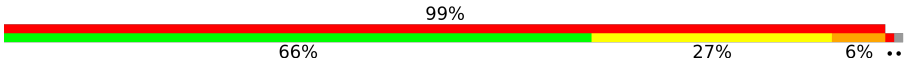
Chain V5:

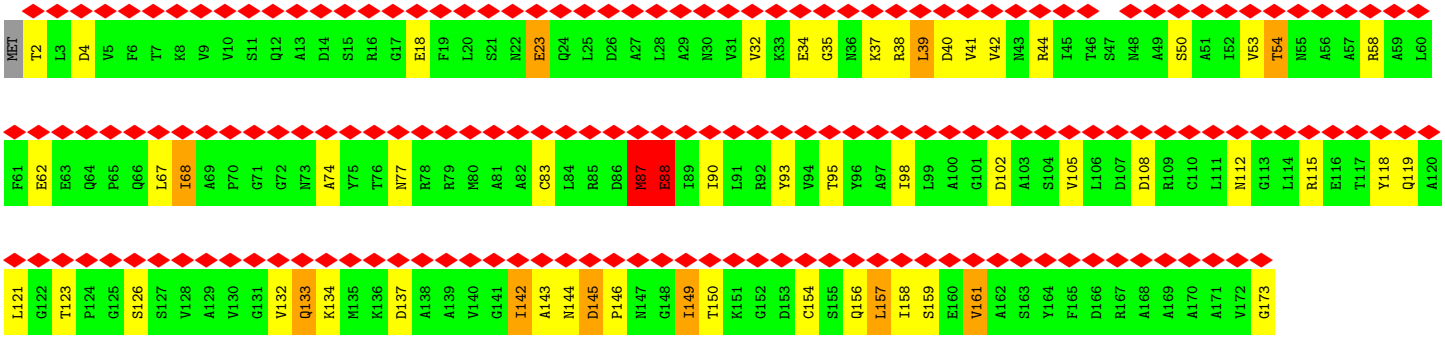




• Molecule 3: C-phycocyanin beta subunit

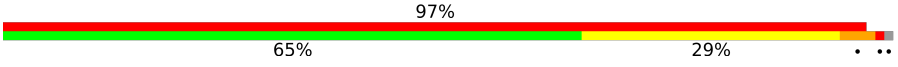
Chain X5:

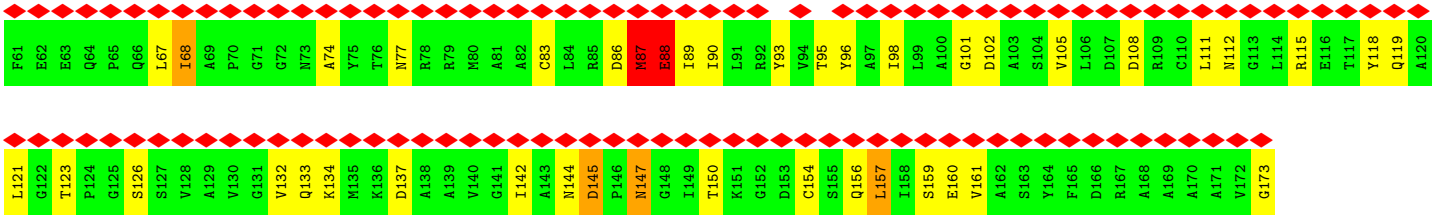




• Molecule 3: C-phycocyanin beta subunit

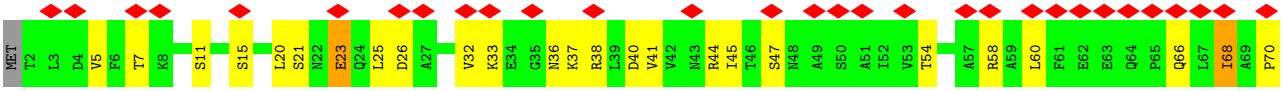
Chain Z5:

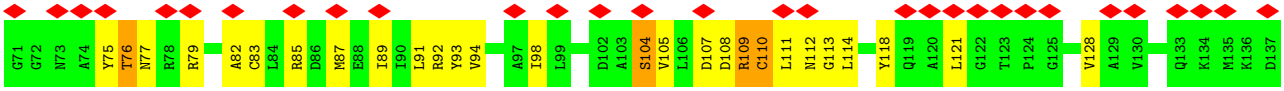


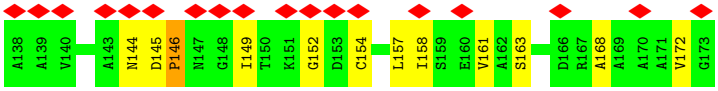


• Molecule 3: C-phycocyanin beta subunit

Chain C6:

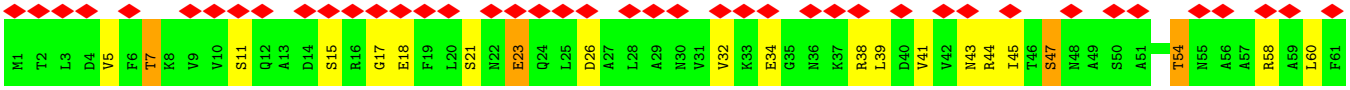


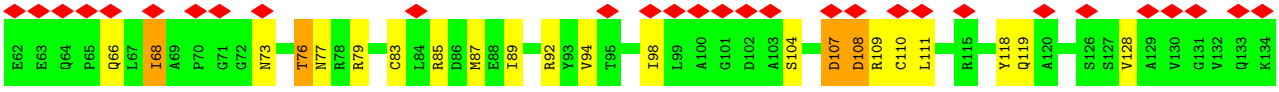


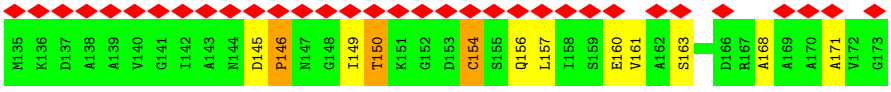


• Molecule 3: C-phycocyanin beta subunit

Chain E6:

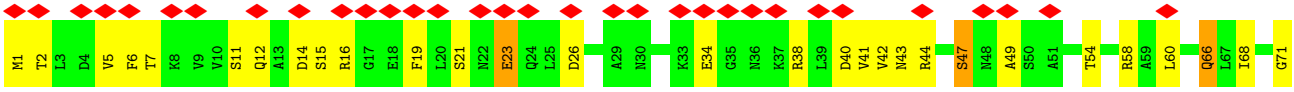


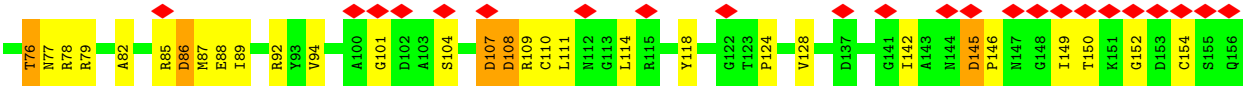


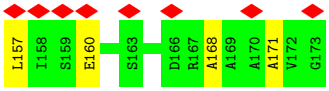


• Molecule 3: C-phycocyanin beta subunit

Chain G6:

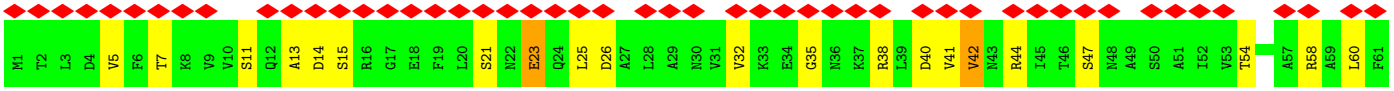


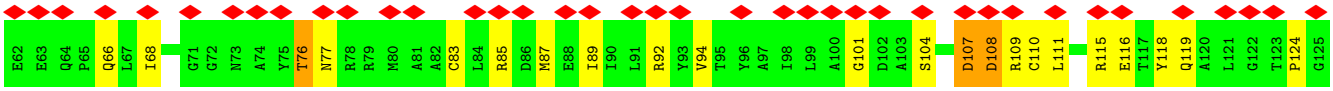


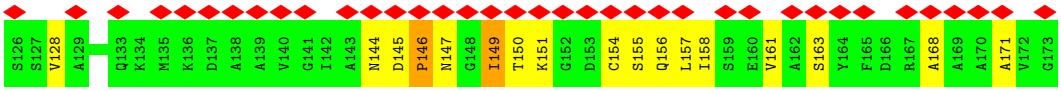


• Molecule 3: C-phycocyanin beta subunit

Chain I6:

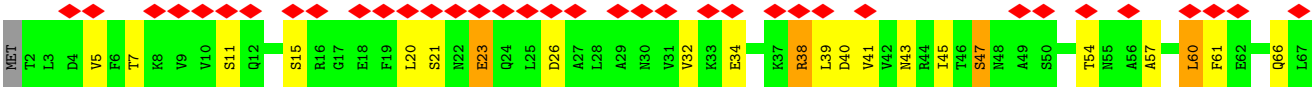


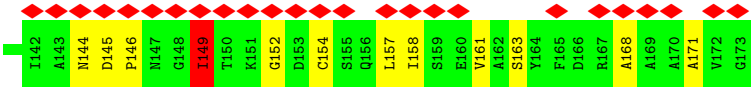




• Molecule 3: C-phycocyanin beta subunit

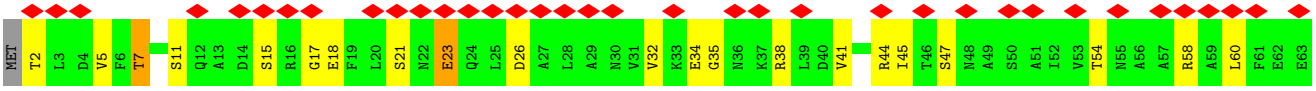
Chain K6:

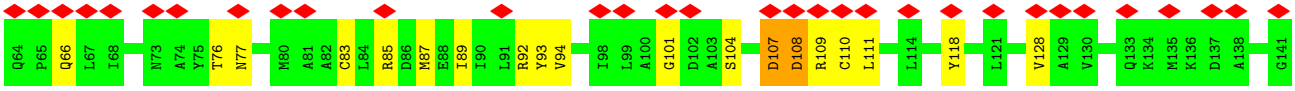


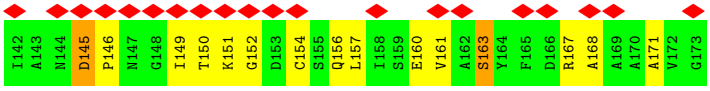


• Molecule 3: C-phycocyanin beta subunit

Chain M6:

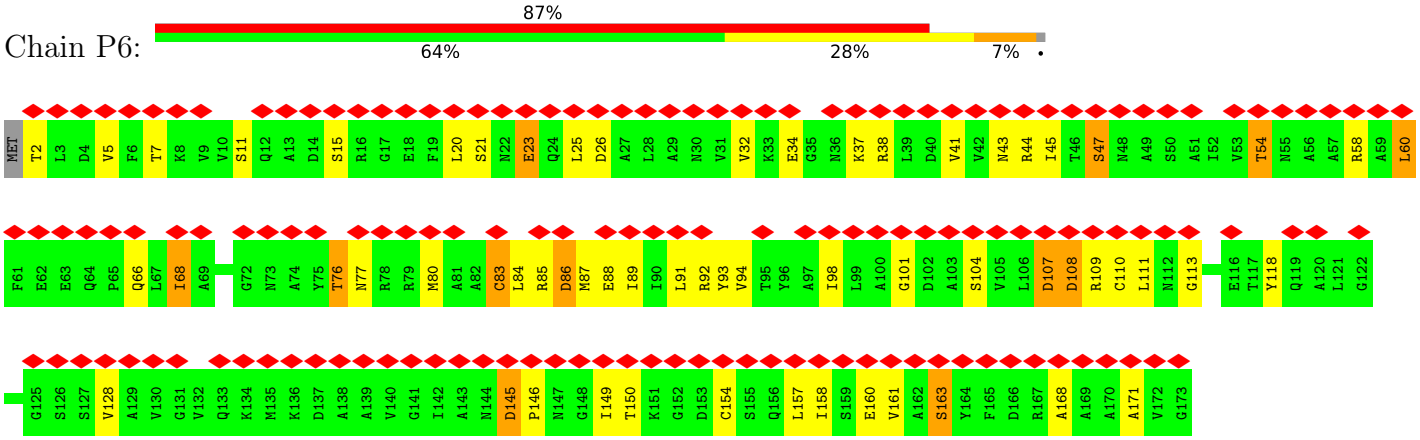






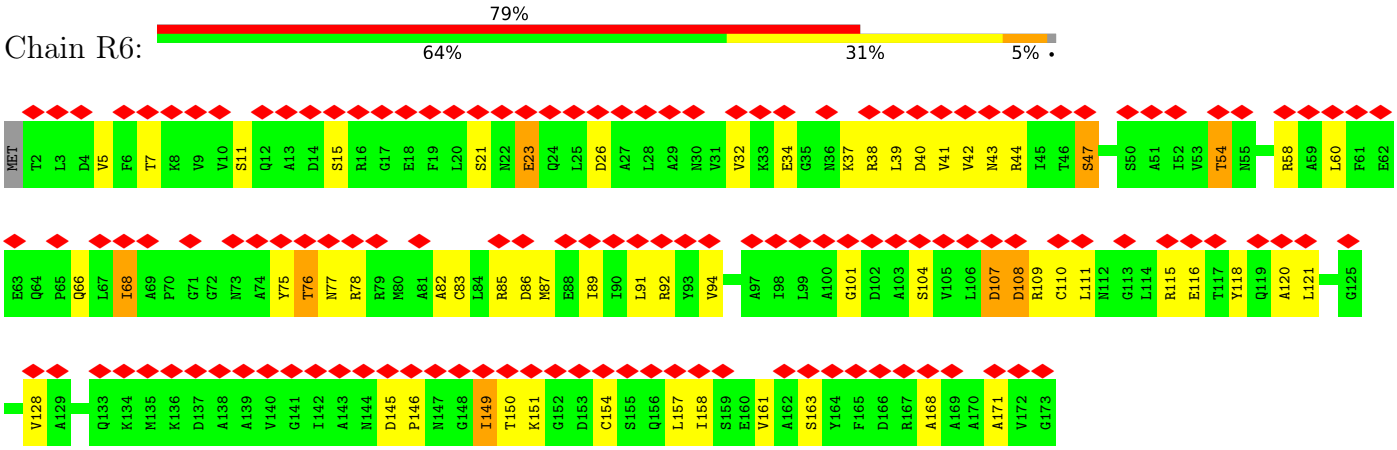
• Molecule 3: C-phycocyanin beta subunit

Chain P6:



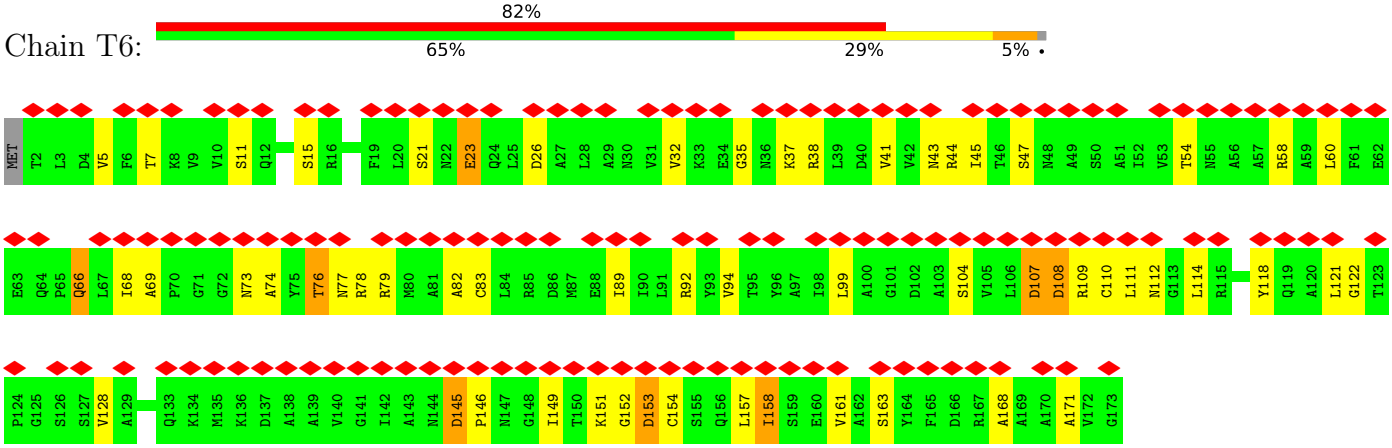
• Molecule 3: C-phycocyanin beta subunit

Chain R6:



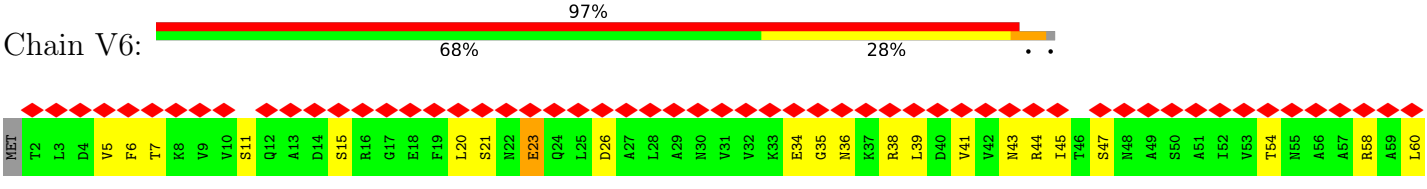
• Molecule 3: C-phycocyanin beta subunit

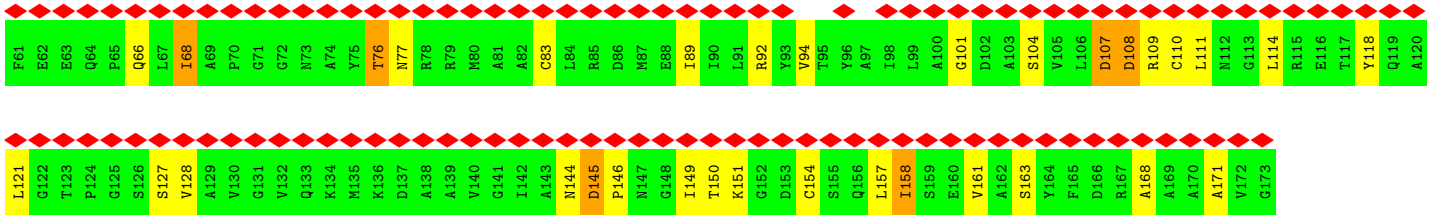
Chain T6:



• Molecule 3: C-phycocyanin beta subunit

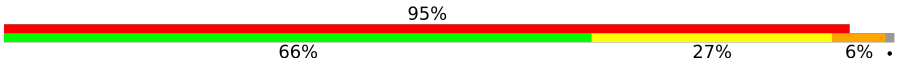
Chain V6:

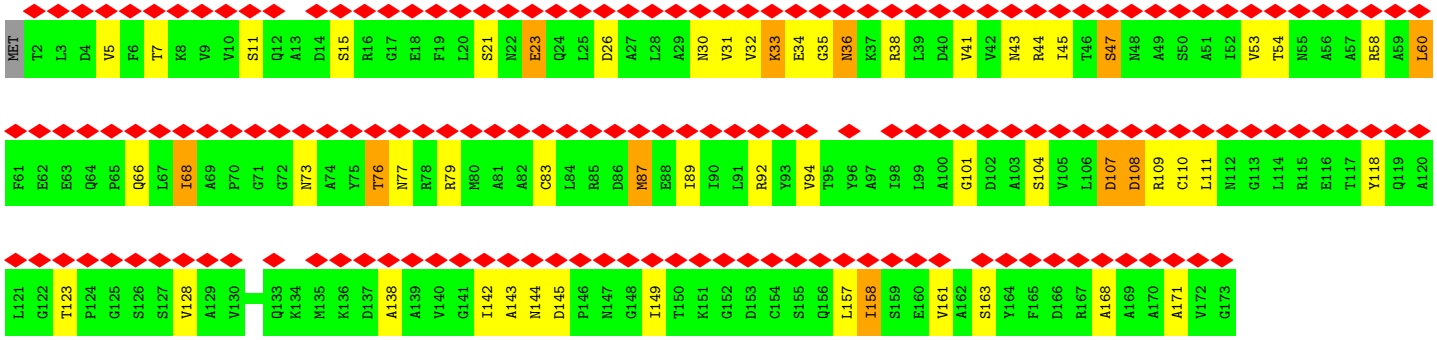




• Molecule 3: C-phycocyanin beta subunit

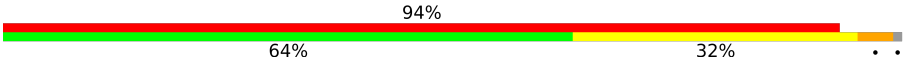
Chain X6:

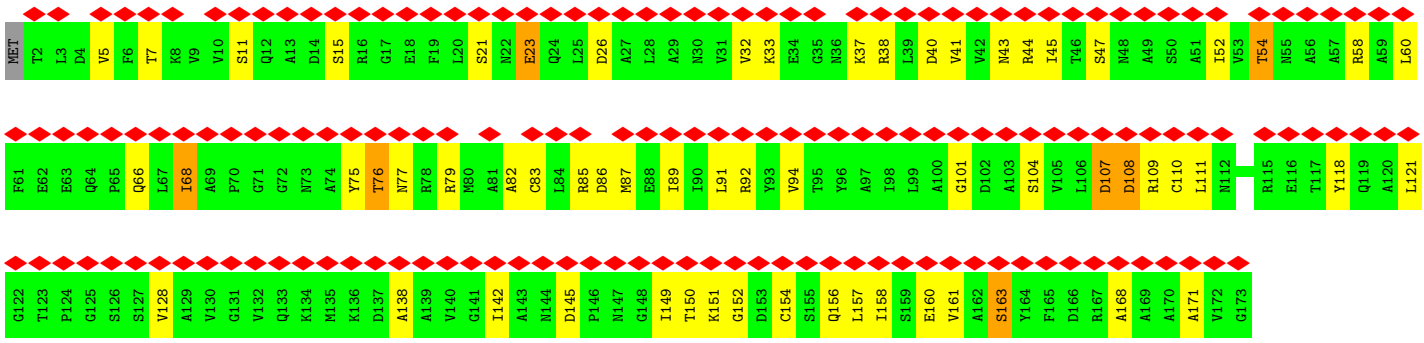




• Molecule 3: C-phycocyanin beta subunit

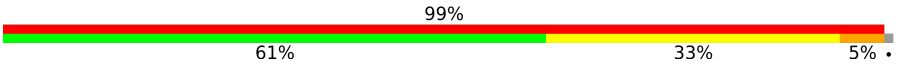
Chain Z6:

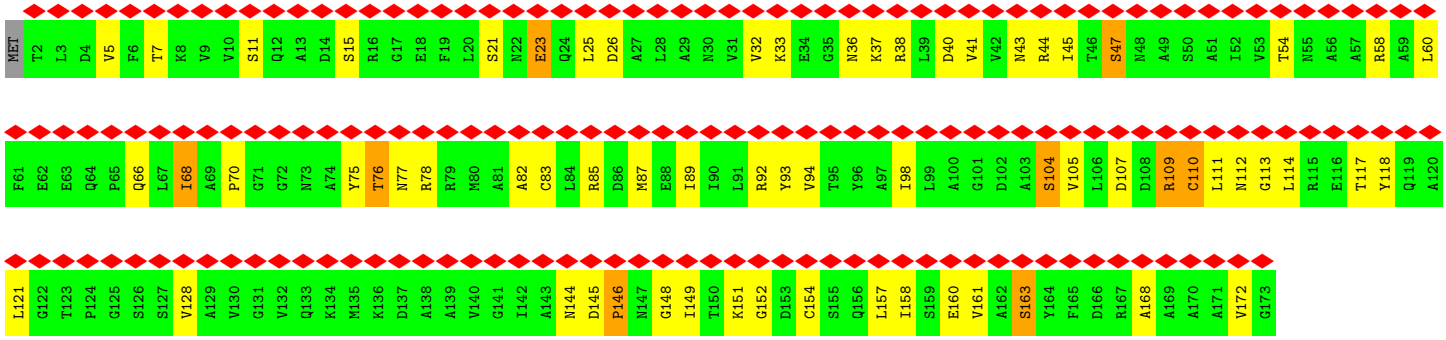




• Molecule 3: C-phycocyanin beta subunit

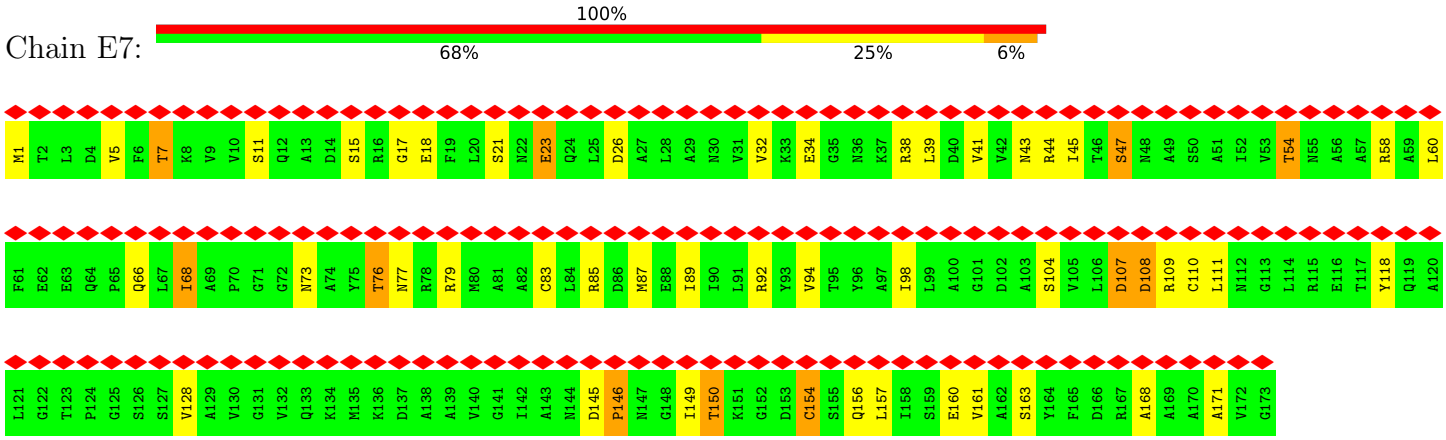
Chain C7:





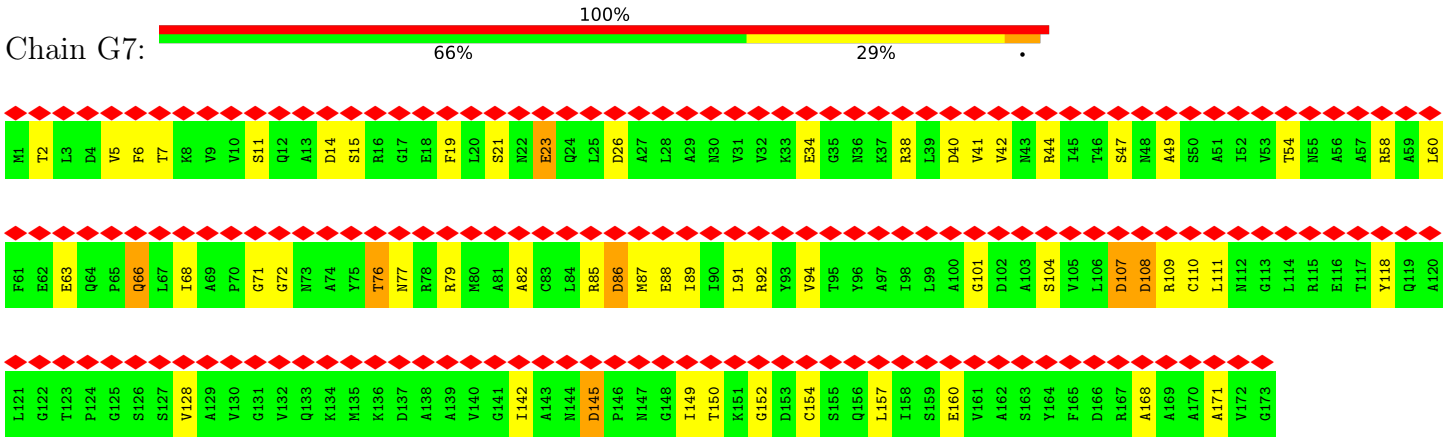
• Molecule 3: C-phycocyanin beta subunit

Chain E7:



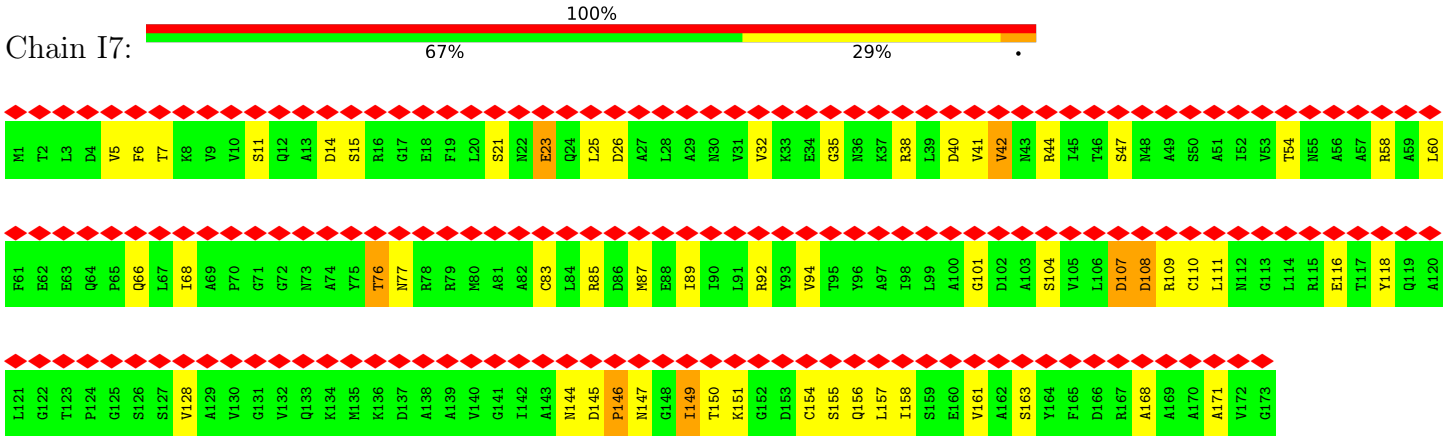
• Molecule 3: C-phycocyanin beta subunit

Chain G7:



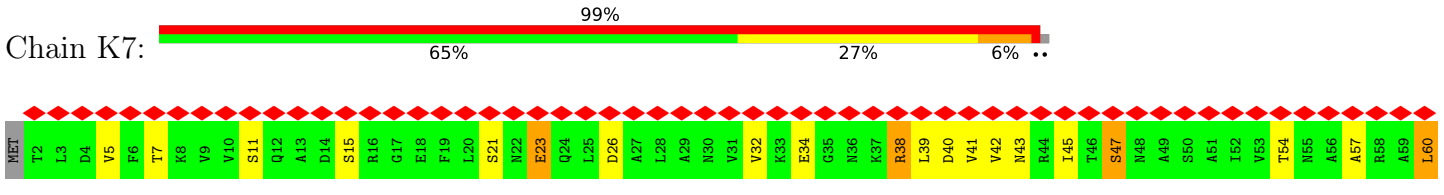
• Molecule 3: C-phycocyanin beta subunit

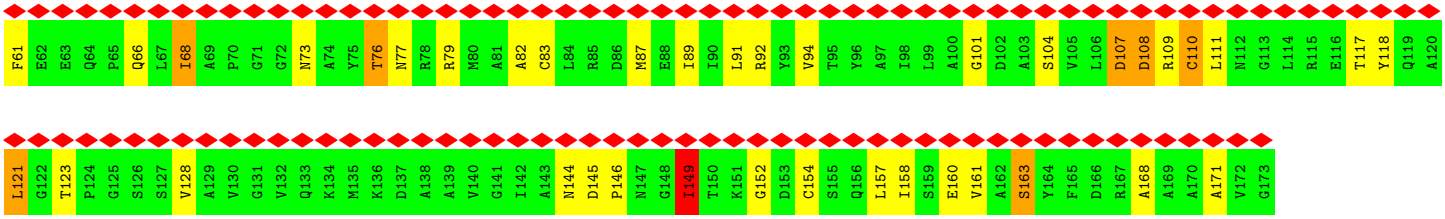
Chain I7:



• Molecule 3: C-phycocyanin beta subunit

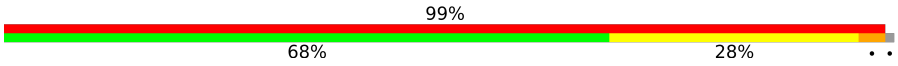
Chain K7:

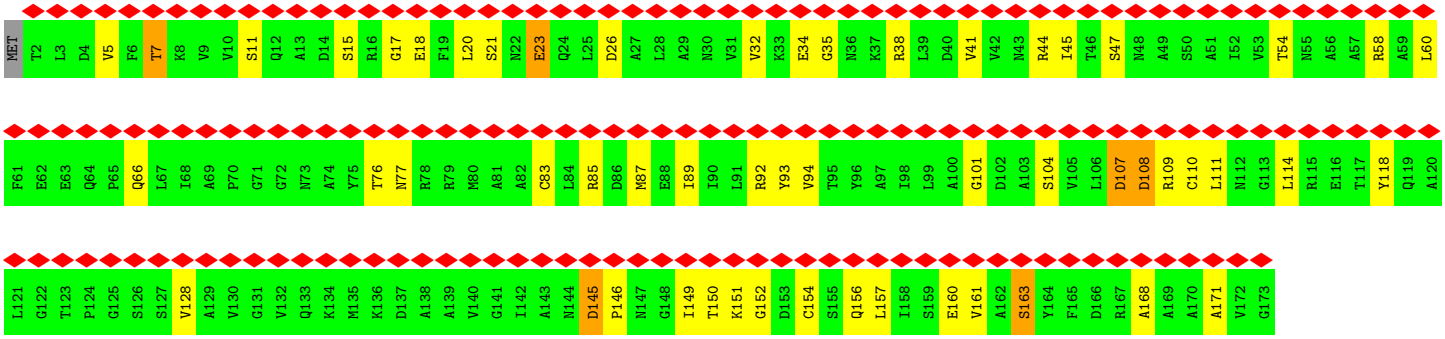




• Molecule 3: C-phycocyanin beta subunit

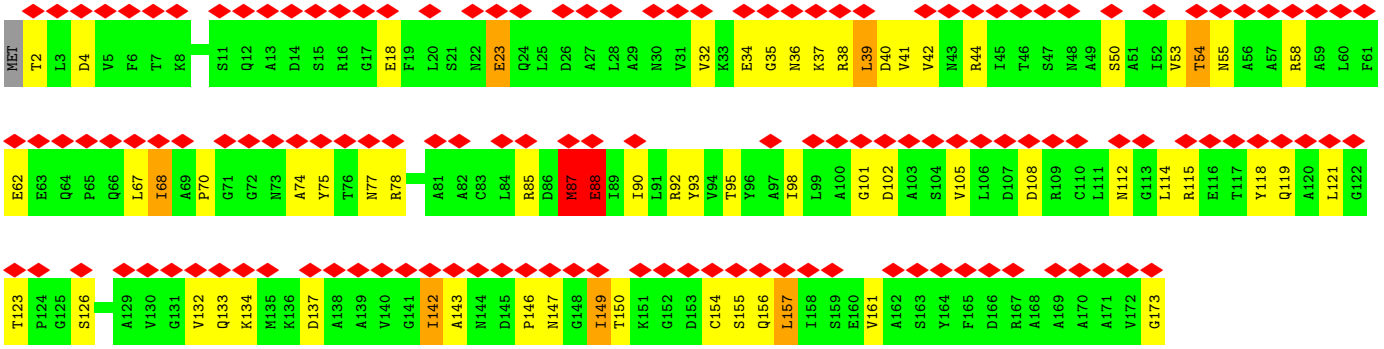
Chain M7:





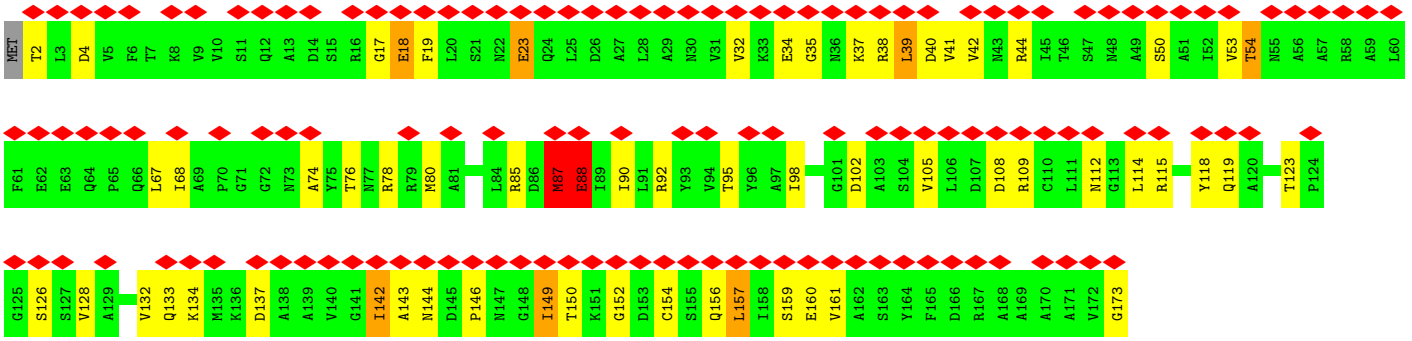
• Molecule 3: C-phycocyanin beta subunit

Chain CA:



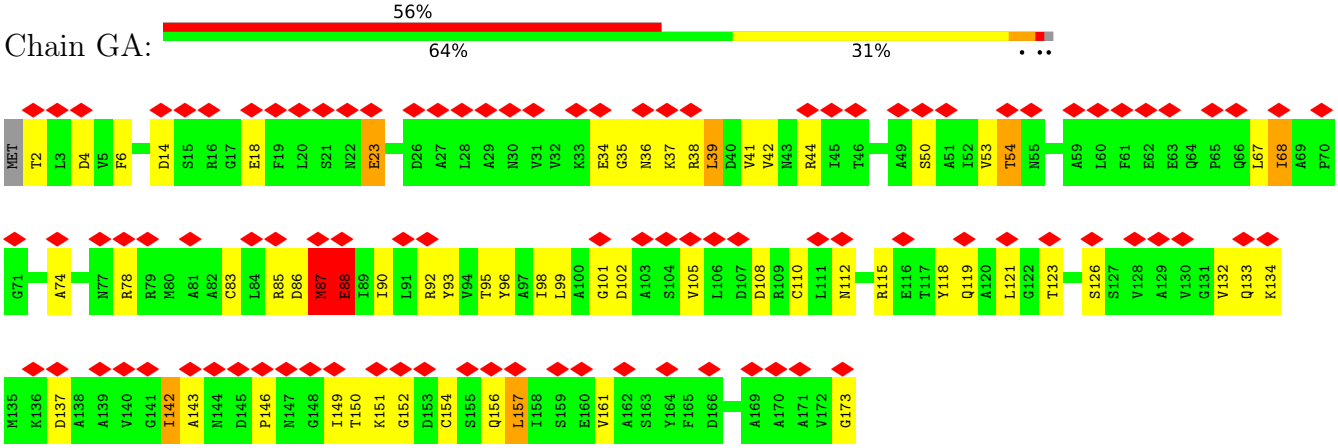
• Molecule 3: C-phycocyanin beta subunit

Chain EA:



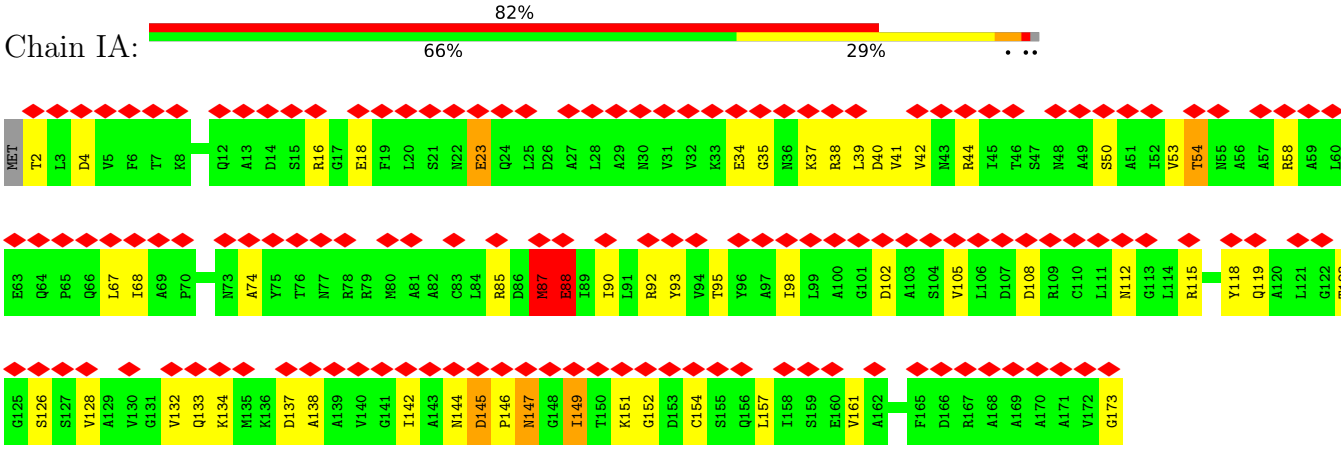
• Molecule 3: C-phycocyanin beta subunit

Chain GA:



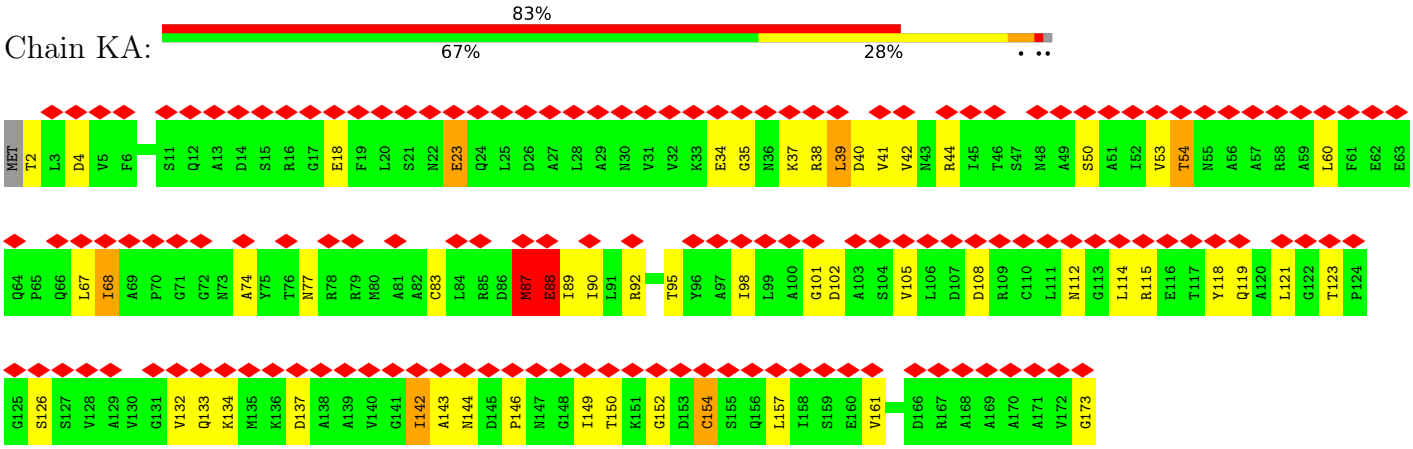
• Molecule 3: C-phycocyanin beta subunit

Chain IA:



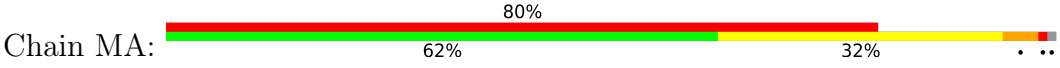
• Molecule 3: C-phycocyanin beta subunit

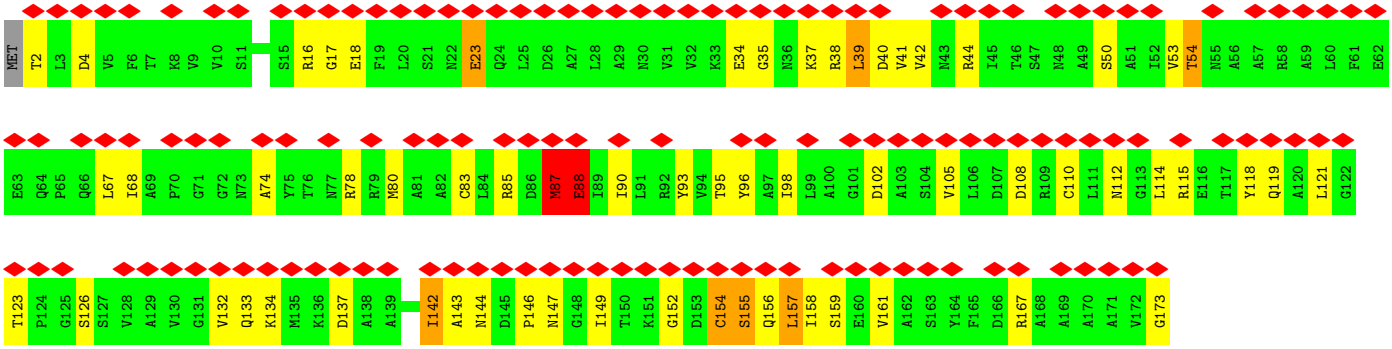
Chain KA:



• Molecule 3: C-phycocyanin beta subunit

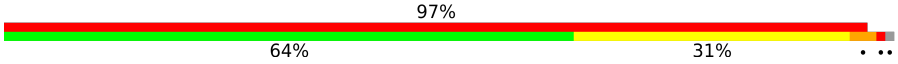
Chain MA:

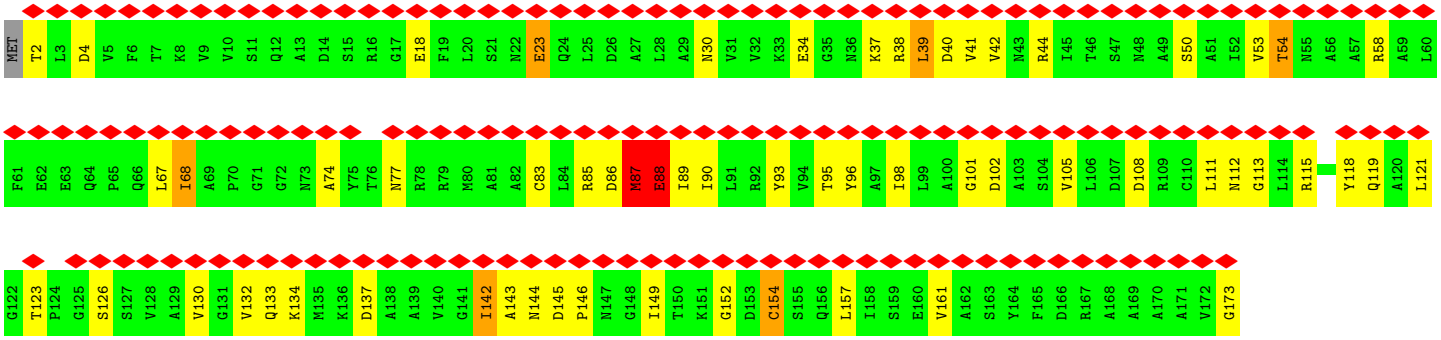




• Molecule 3: C-phycocyanin beta subunit

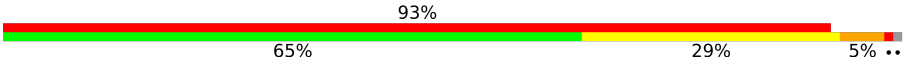
Chain PA:

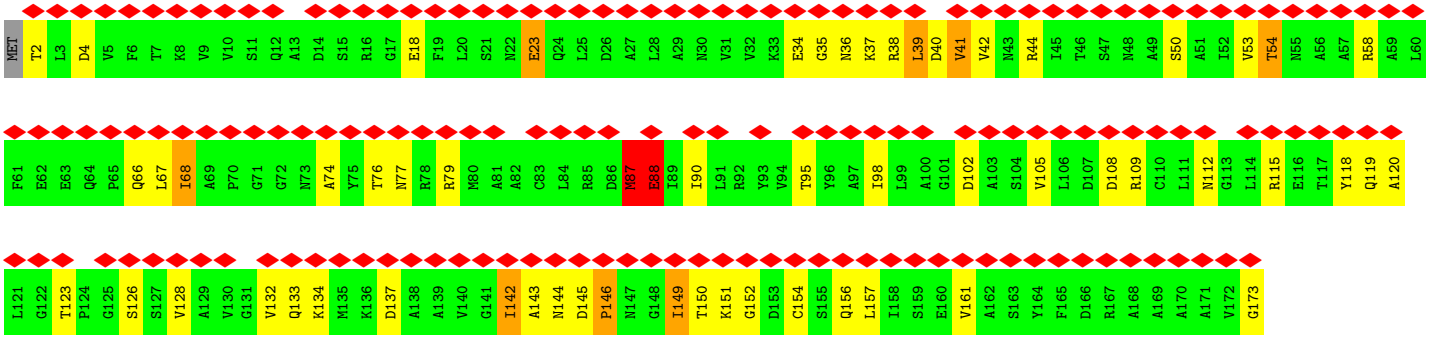




• Molecule 3: C-phycocyanin beta subunit

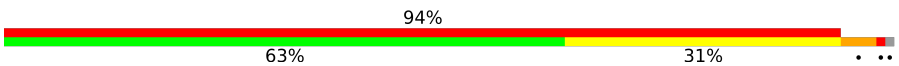
Chain RA:

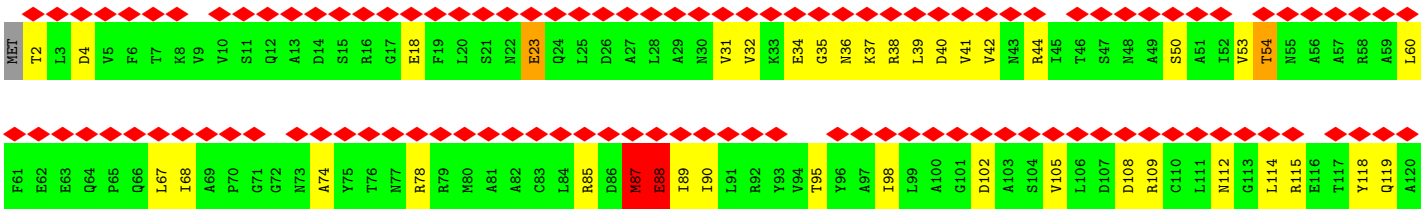


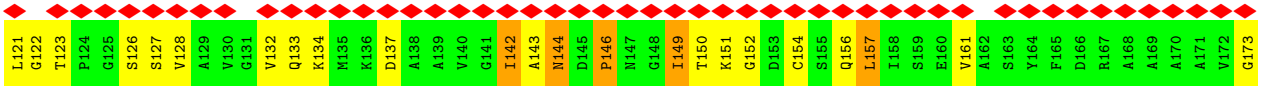


• Molecule 3: C-phycocyanin beta subunit

Chain TA:

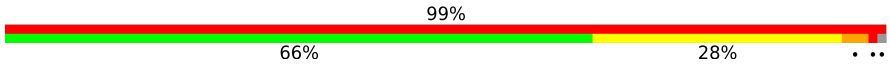


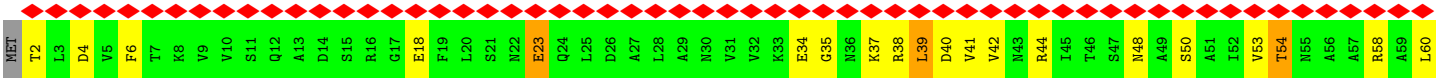


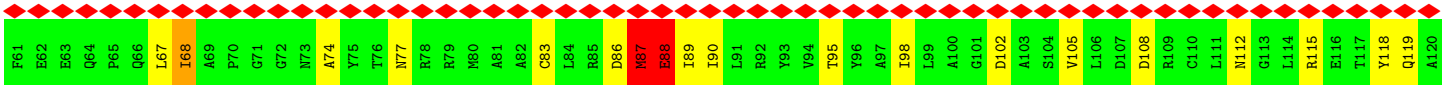


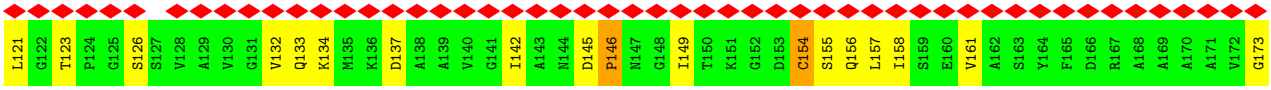
• Molecule 3: C-phycocyanin beta subunit

Chain VA:



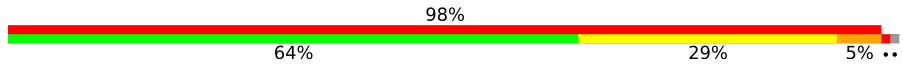


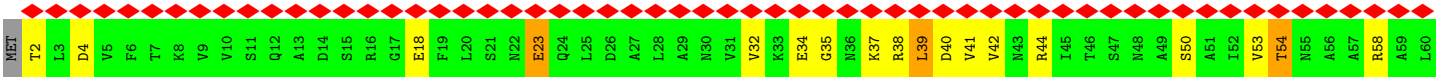


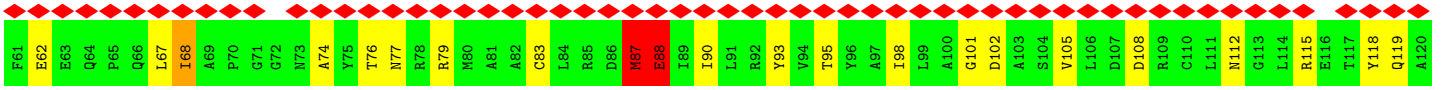


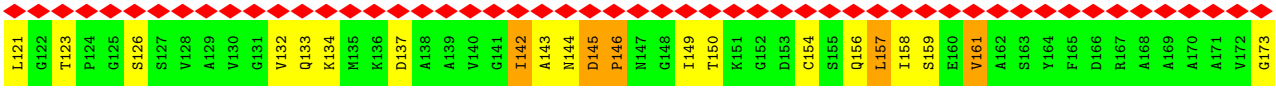
• Molecule 3: C-phycocyanin beta subunit

Chain XA:



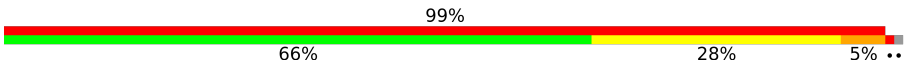


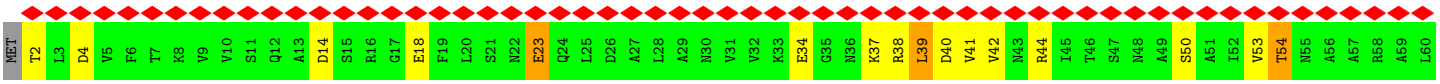


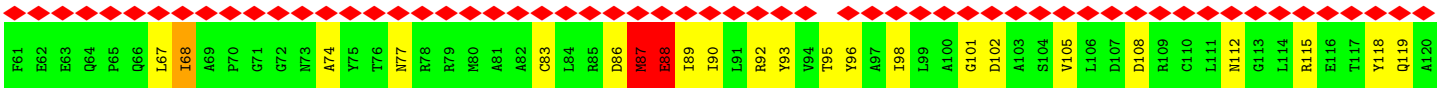


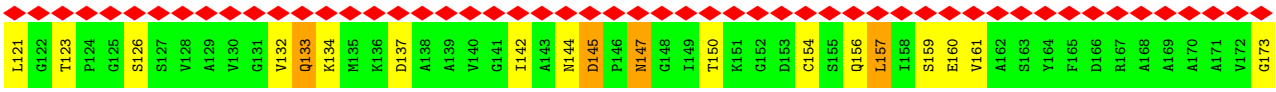
• Molecule 3: C-phycocyanin beta subunit

Chain ZA:



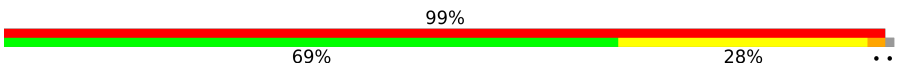


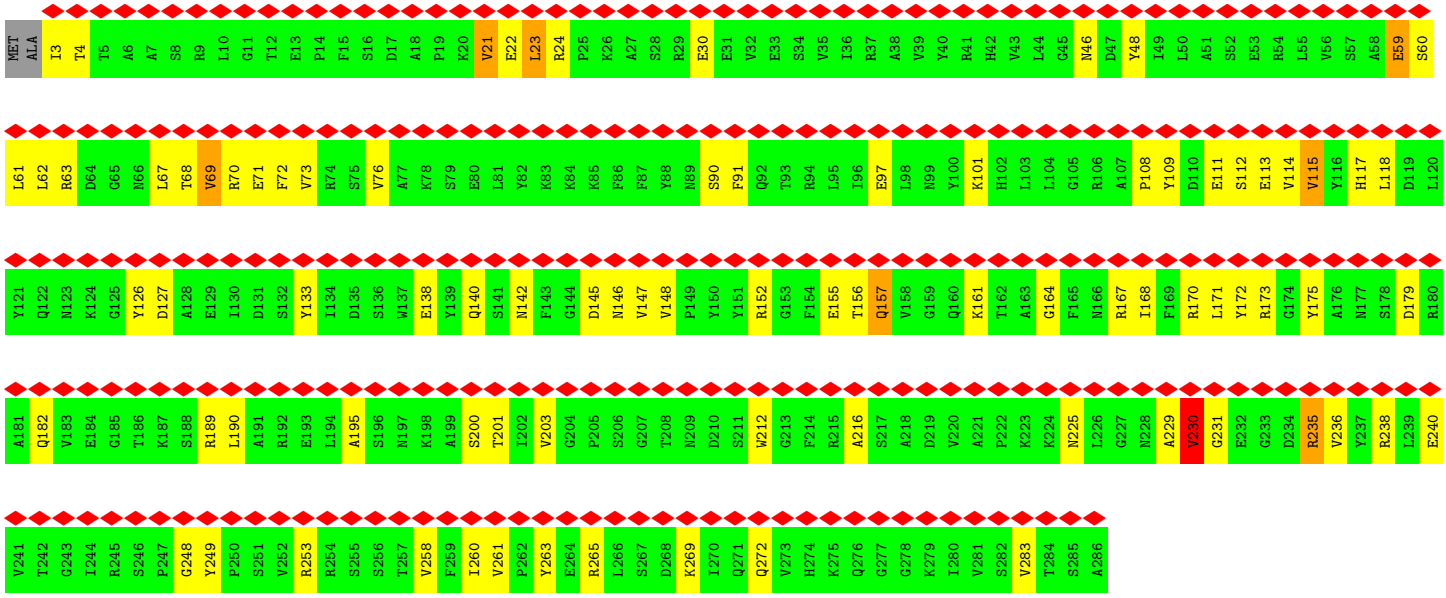




• Molecule 4: Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod

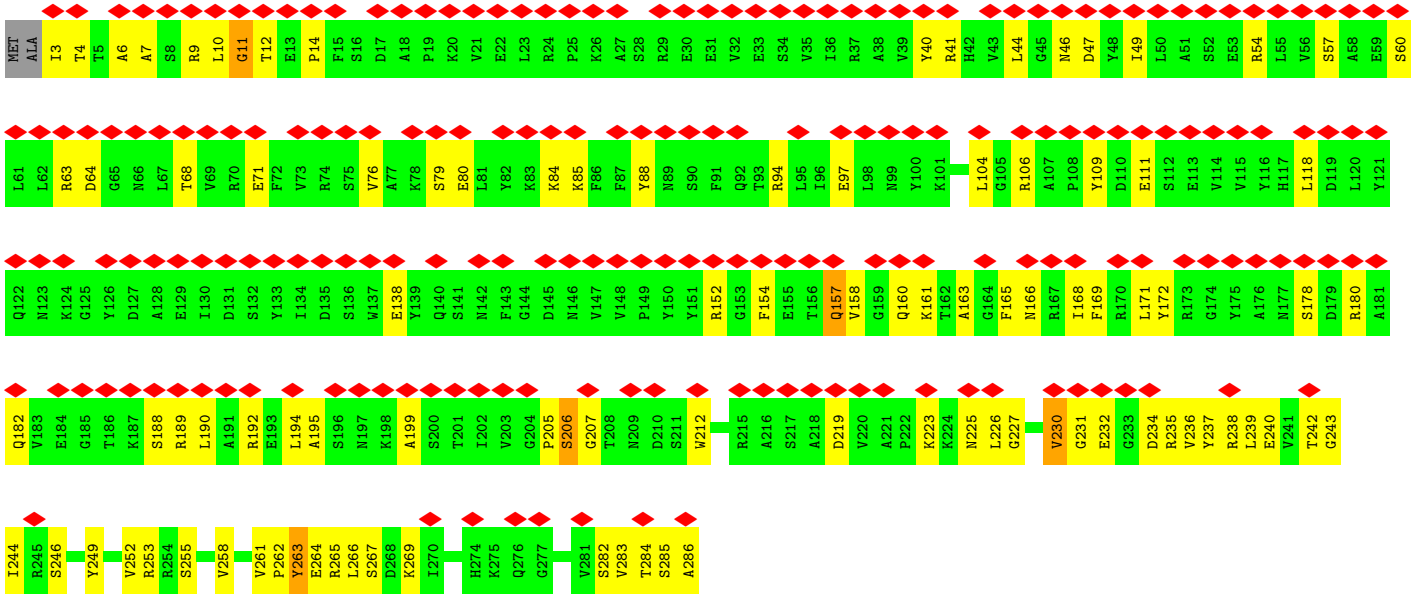
Chain N1:





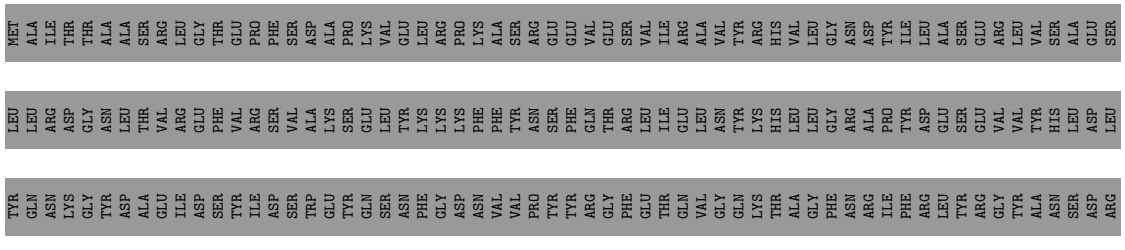
• Molecule 4: Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod

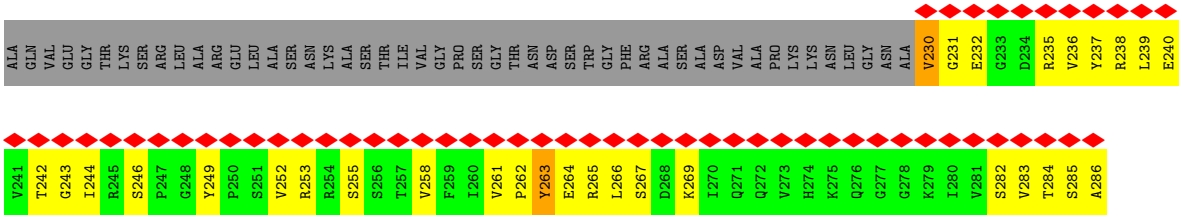
Chain N2:



• Molecule 4: Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod

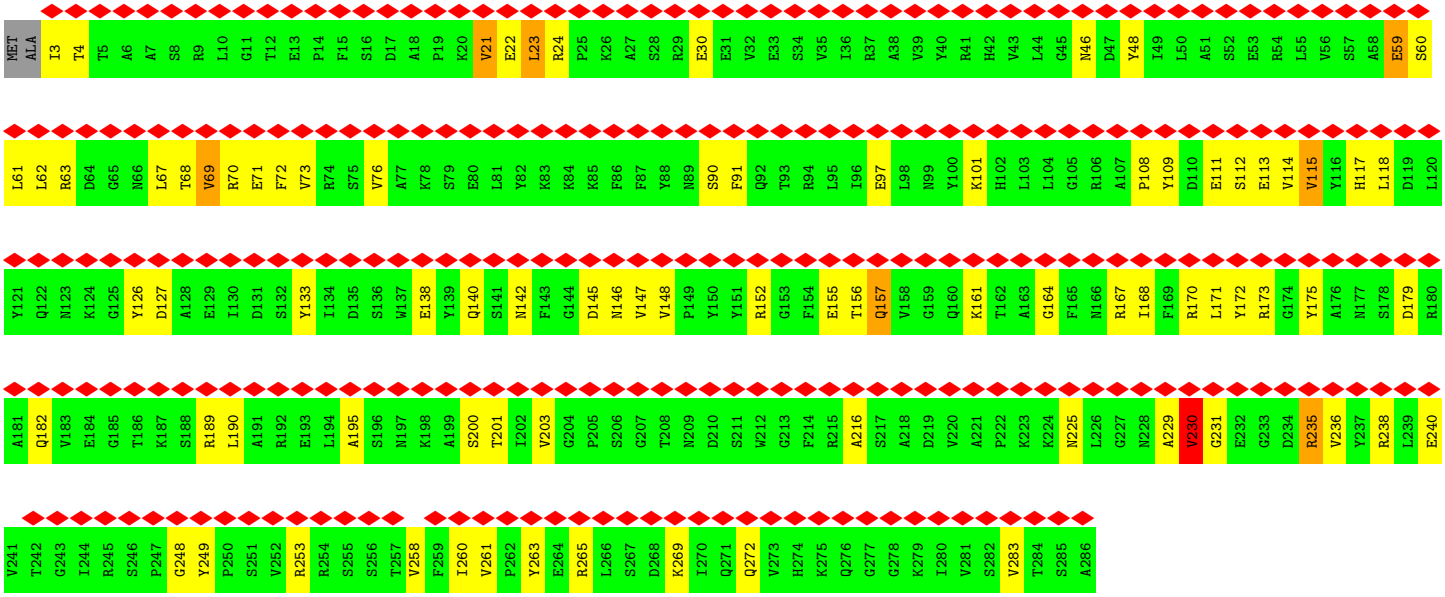
Chain N3:





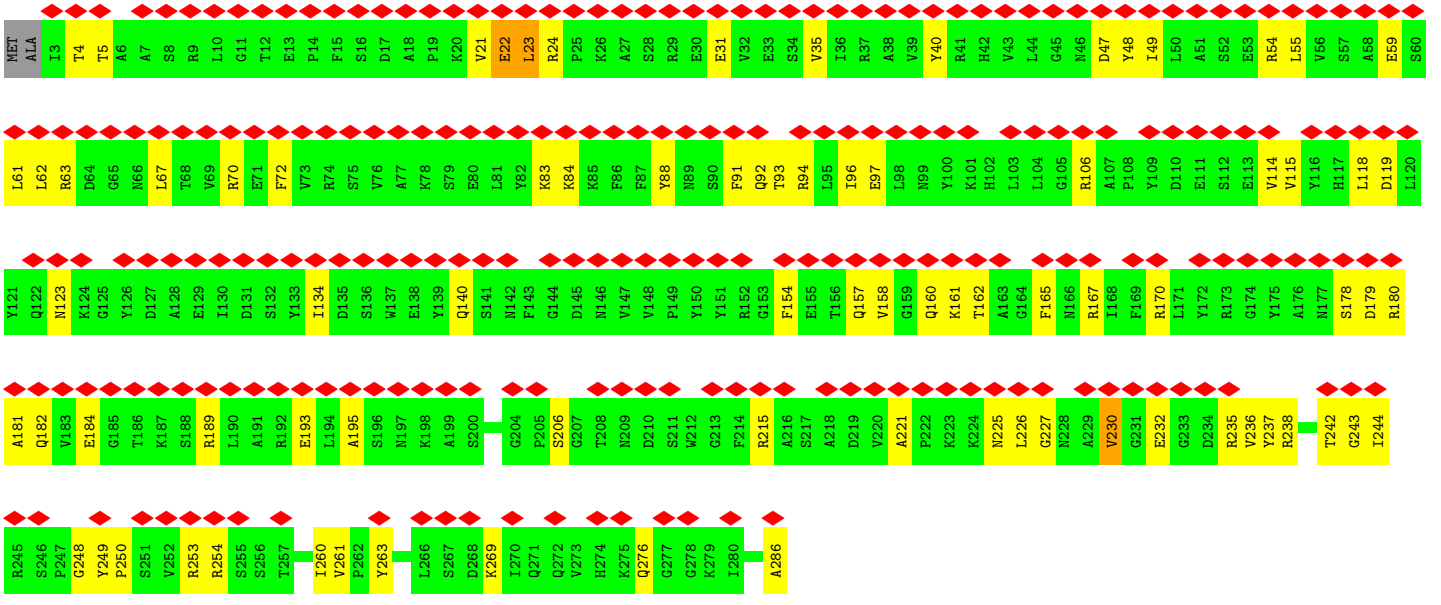
• Molecule 4: Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod

Chain N4:



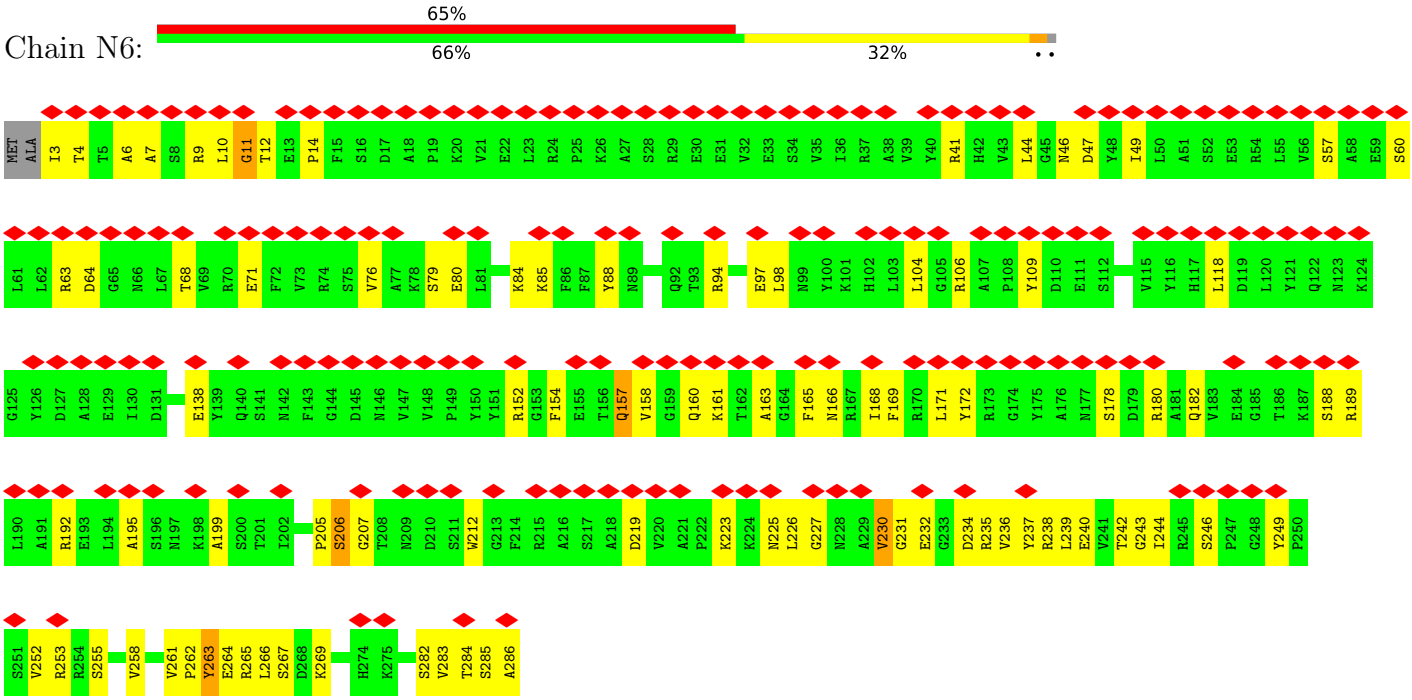
• Molecule 4: Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod

Chain N5:



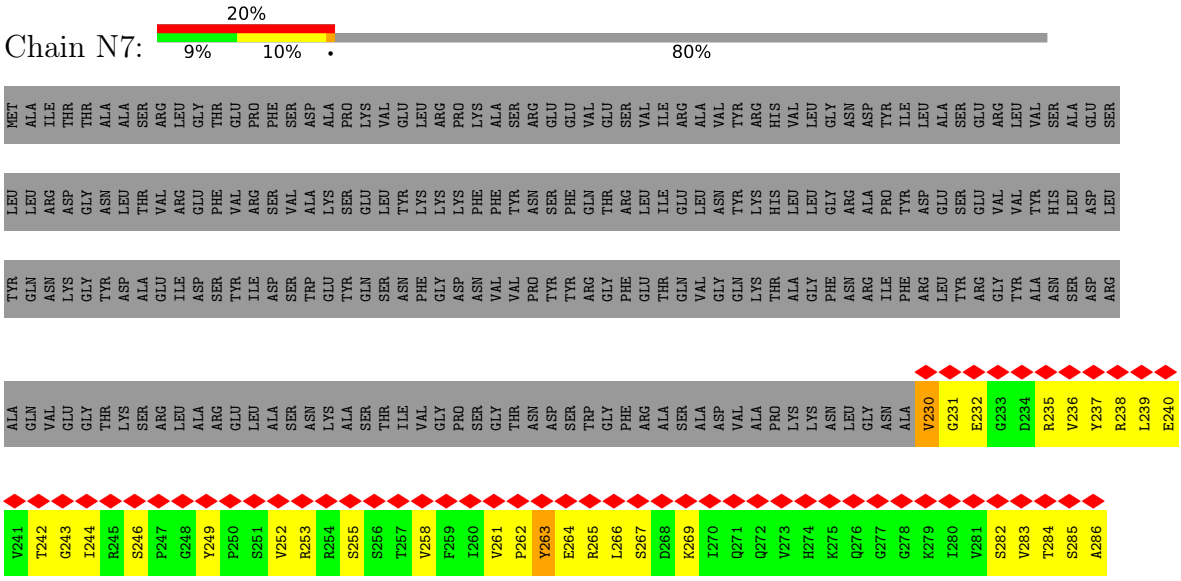
• Molecule 4: Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod

Chain N6:



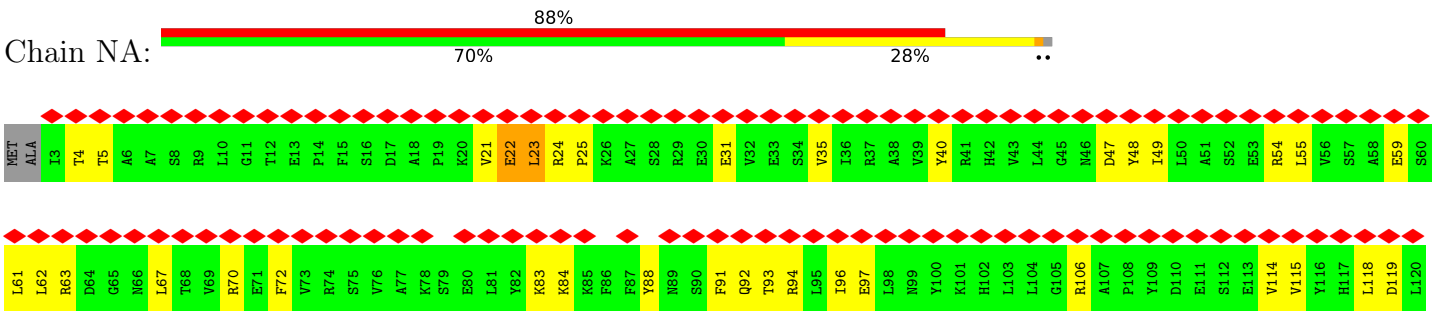
• Molecule 4: Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod

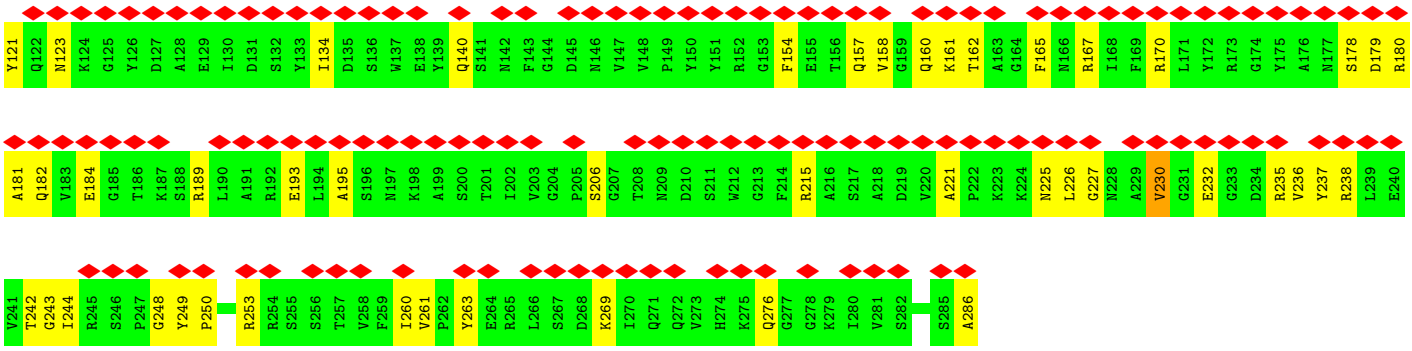
Chain N7:



• Molecule 4: Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod

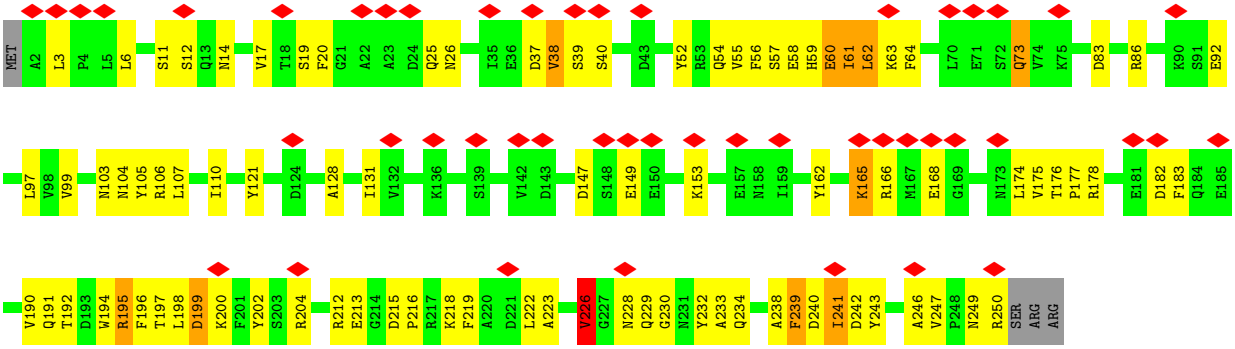
Chain NA:





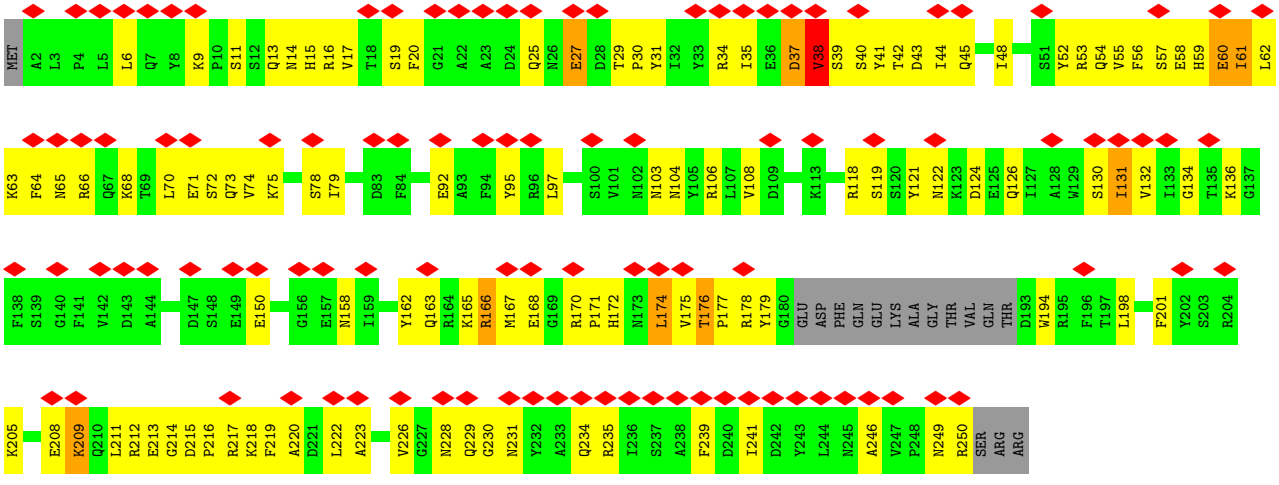
• Molecule 5: Phycobilisome rod-core linker polypeptide CpcG4

Chain A2:



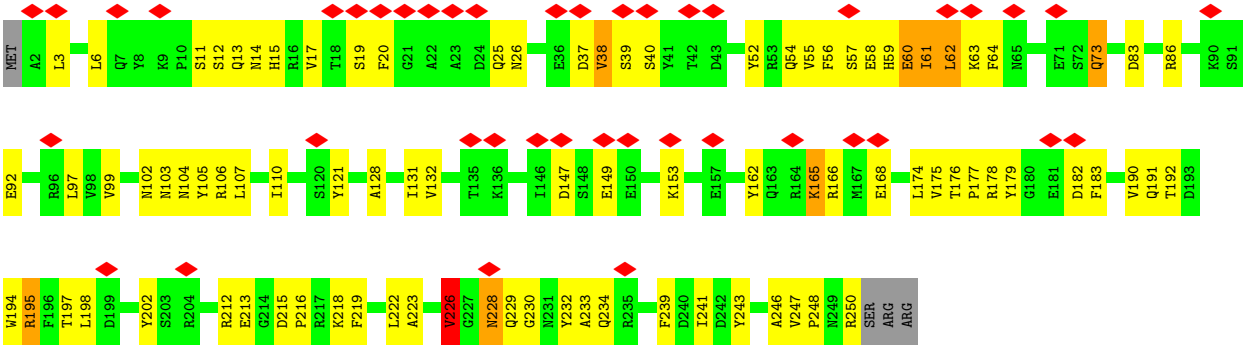
• Molecule 5: Phycobilisome rod-core linker polypeptide CpcG4

Chain A5:



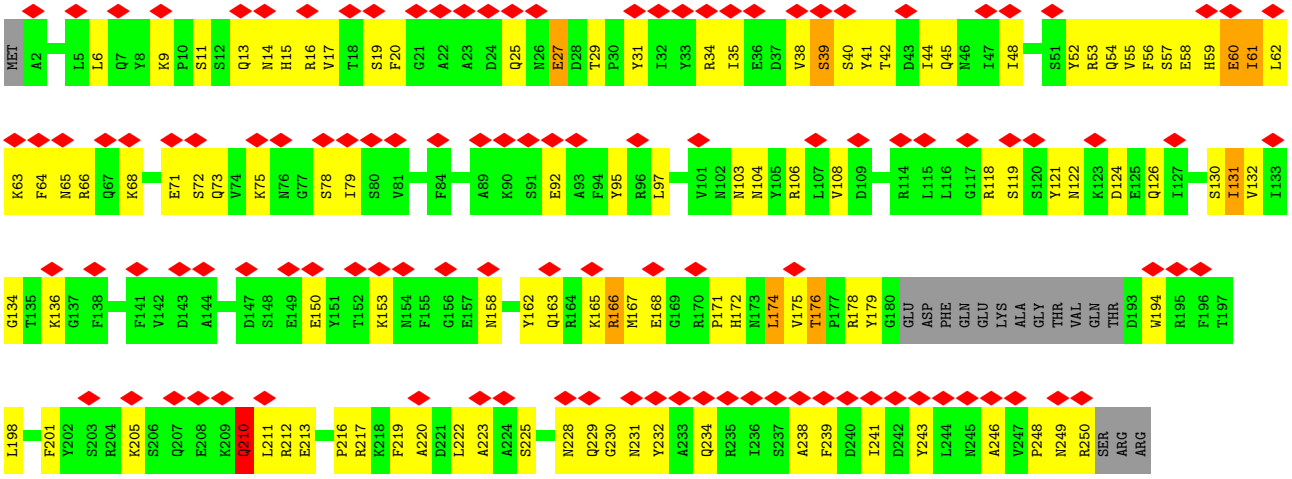
• Molecule 5: Phycobilisome rod-core linker polypeptide CpcG4

Chain A6:



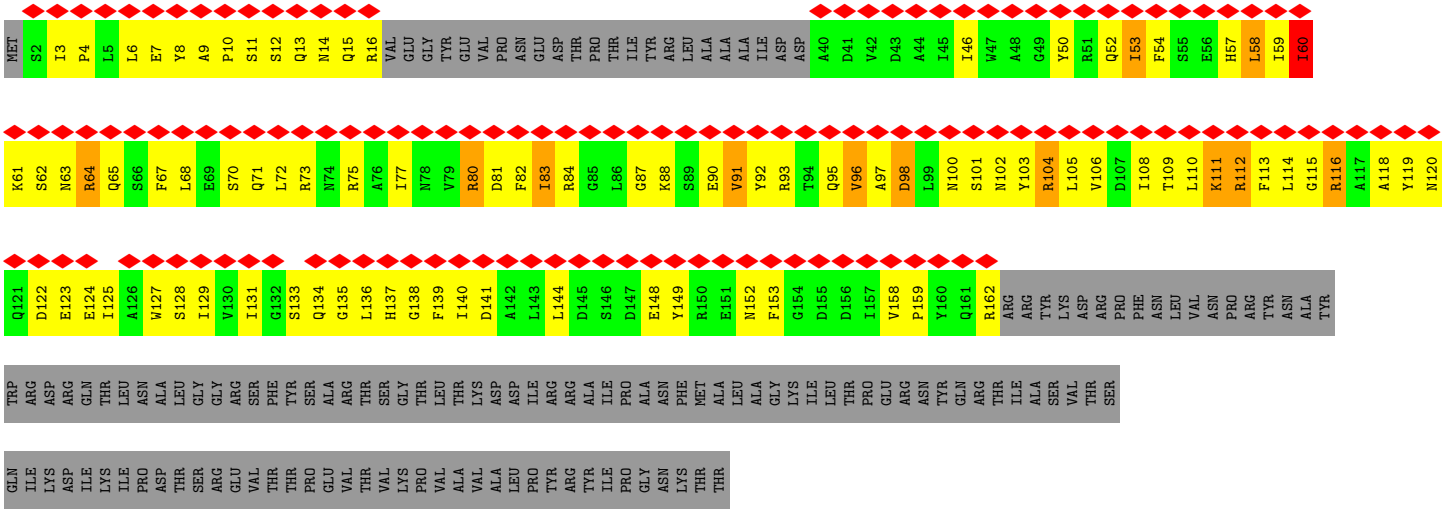
• Molecule 5: Phycobilisome rod-core linker polypeptide CpcG4

Chain AA:



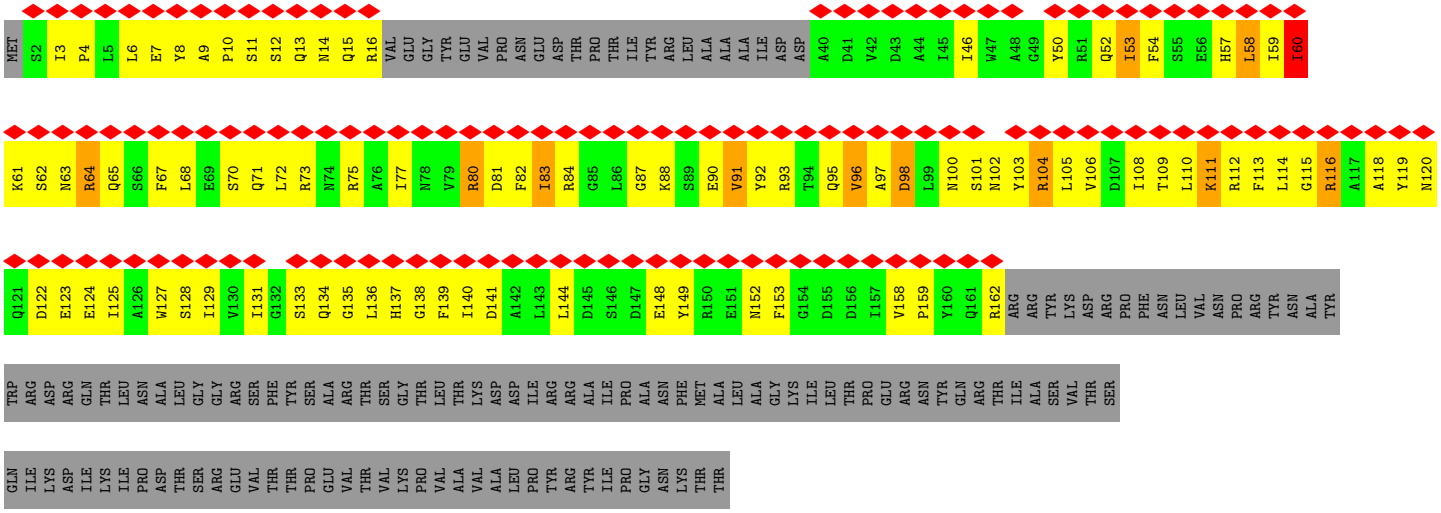
• Molecule 6: Phycobilisome rod-core linker polypeptide CpcG1

Chain A3:



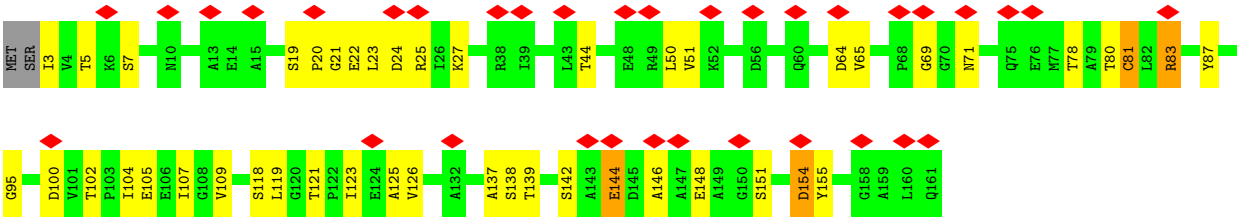
• Molecule 6: Phycobilisome rod-core linker polypeptide CpcG1

Chain A7:



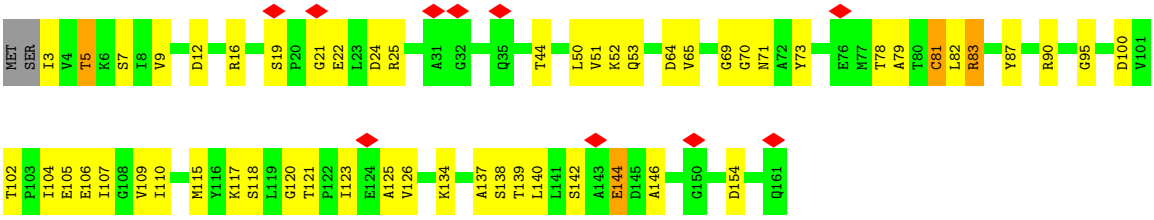
• Molecule 7: Allophycocyanin subunit alpha 1

Chain A8:



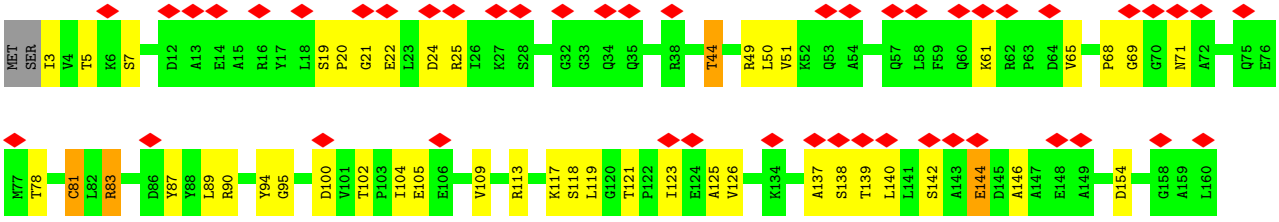
• Molecule 7: Allophycocyanin subunit alpha 1

Chain C8:



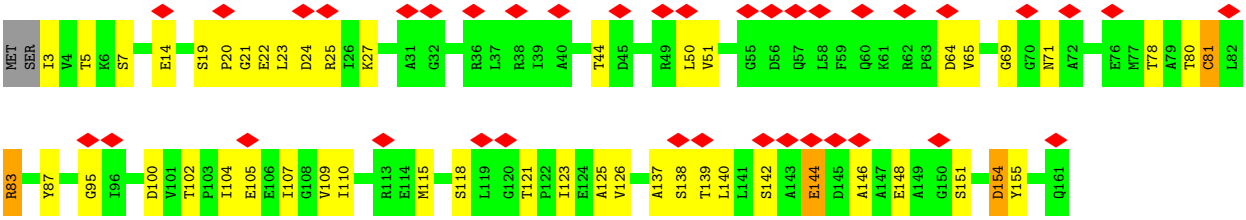
• Molecule 7: Allophycocyanin subunit alpha 1

Chain E8:



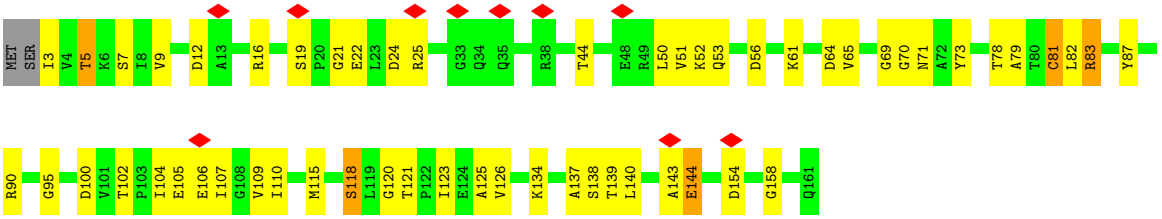
• Molecule 7: Allophycocyanin subunit alpha 1

Chain H8:



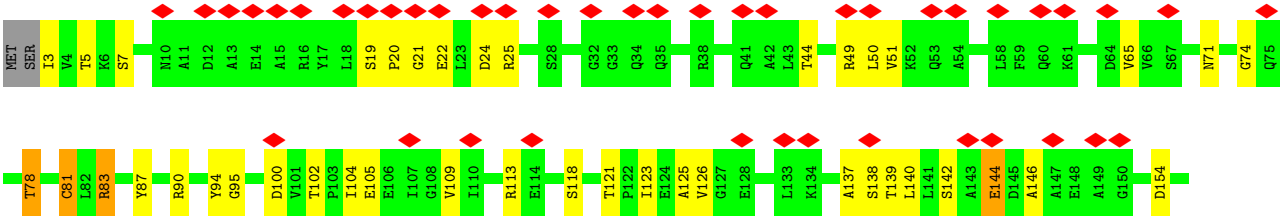
• Molecule 7: Allophycocyanin subunit alpha 1

Chain J8:



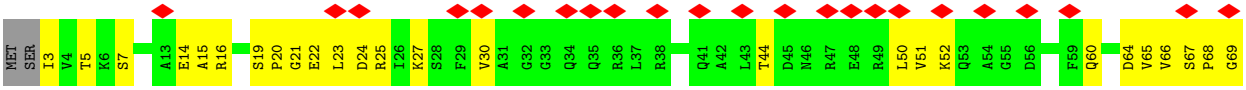
• Molecule 7: Allophycocyanin subunit alpha 1

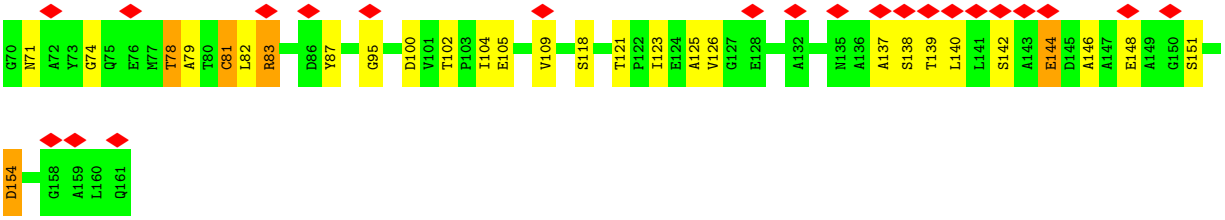
Chain L8:



• Molecule 7: Allophycocyanin subunit alpha 1

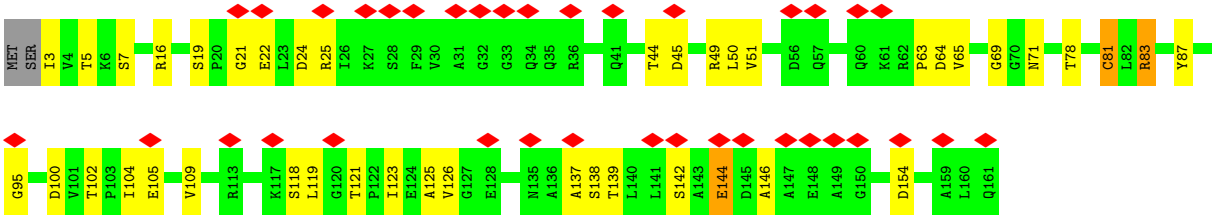
Chain O8:





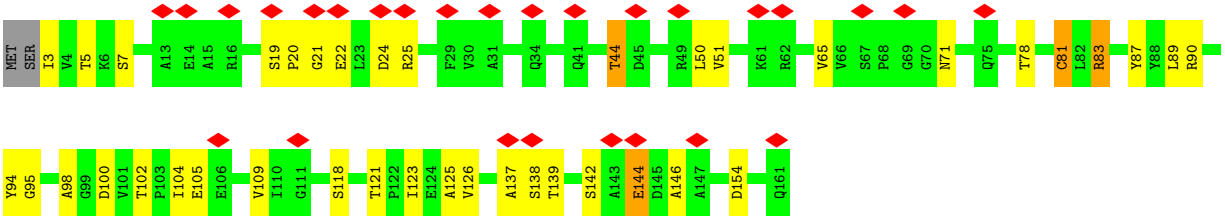
• Molecule 7: Allophycocyanin subunit alpha 1

Chain Q8:



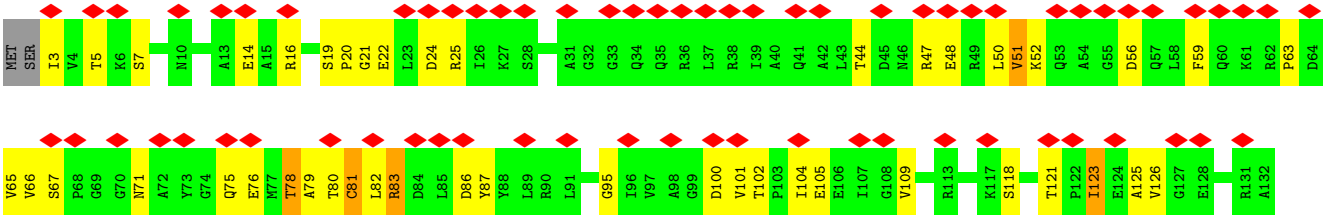
• Molecule 7: Allophycocyanin subunit alpha 1

Chain S8:



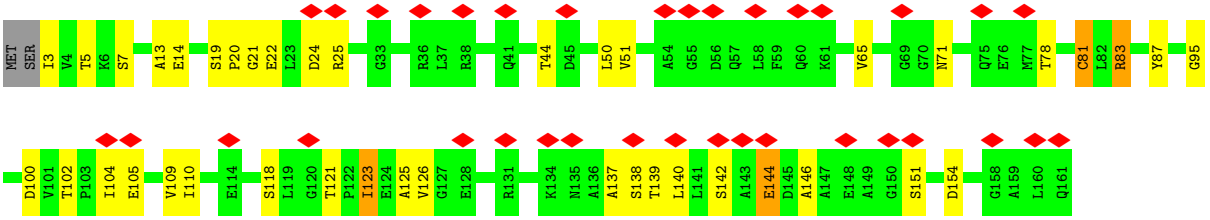
• Molecule 7: Allophycocyanin subunit alpha 1

Chain V8:



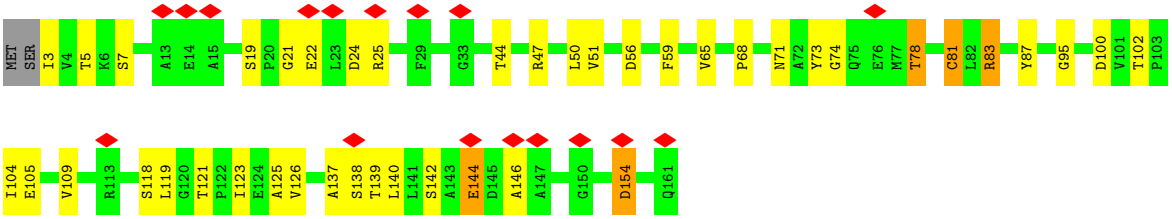
• Molecule 7: Allophycocyanin subunit alpha 1

Chain X8:



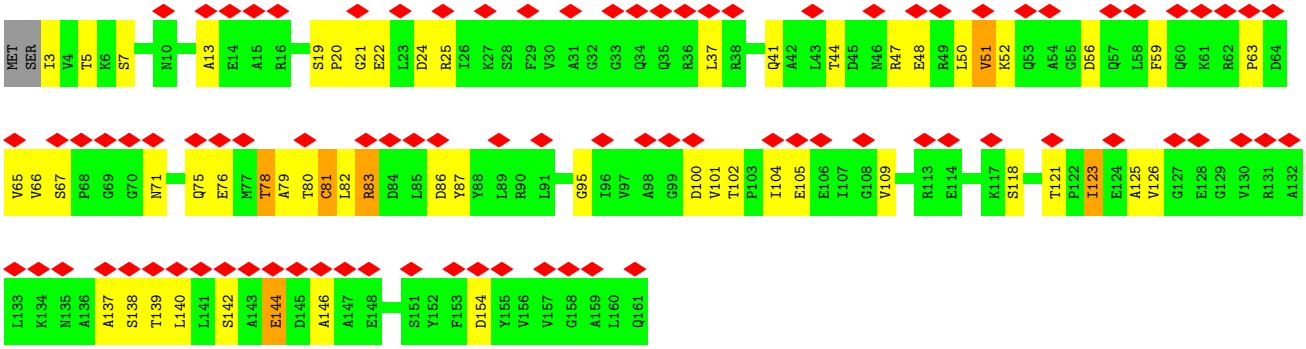
• Molecule 7: Allophycocyanin subunit alpha 1

Chain Z8:



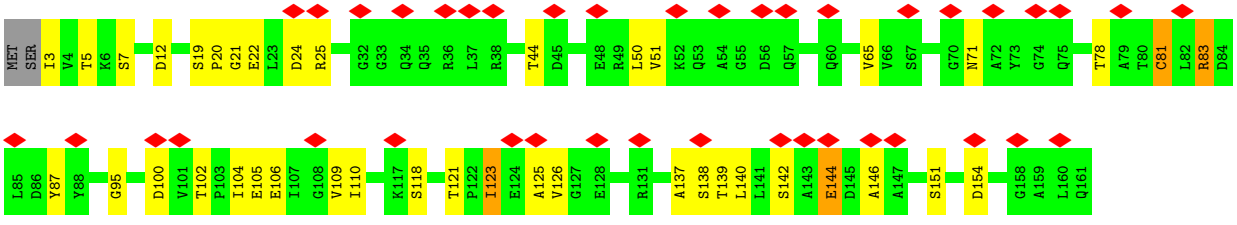
• Molecule 7: Allophycocyanin subunit alpha 1

Chain c8:



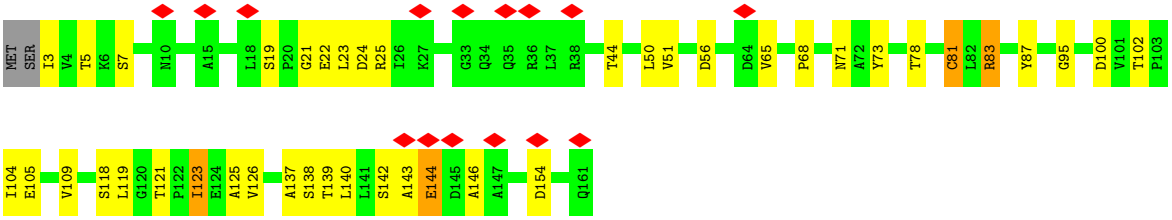
• Molecule 7: Allophycocyanin subunit alpha 1

Chain e8:



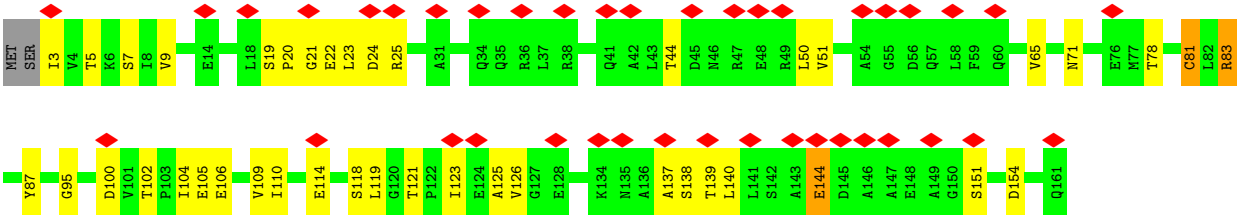
• Molecule 7: Allophycocyanin subunit alpha 1

Chain g8:



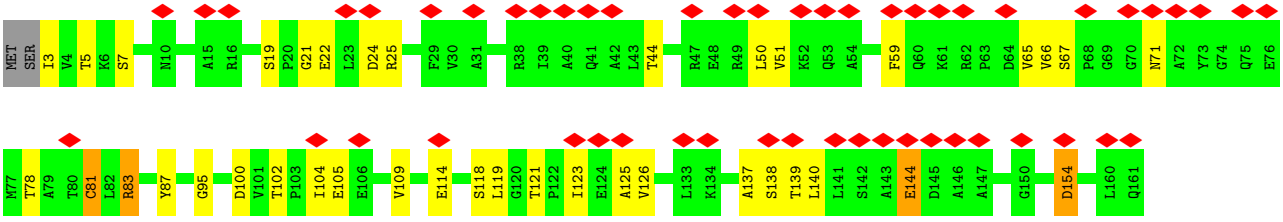
• Molecule 7: Allophycocyanin subunit alpha 1

Chain j8:



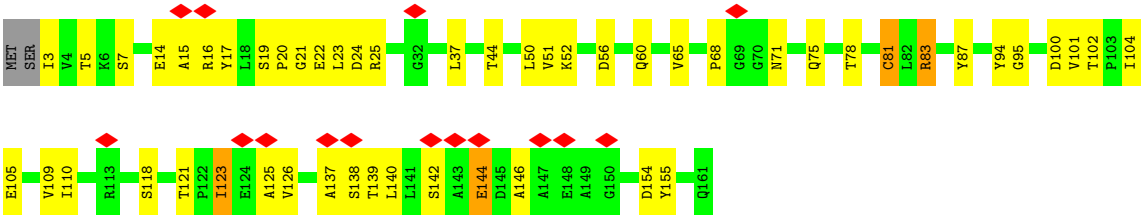
• Molecule 7: Allophycocyanin subunit alpha 1

Chain l8:



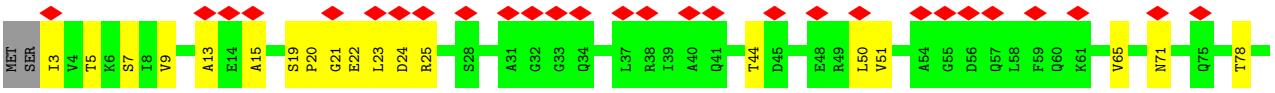
• Molecule 7: Allophycocyanin subunit alpha 1

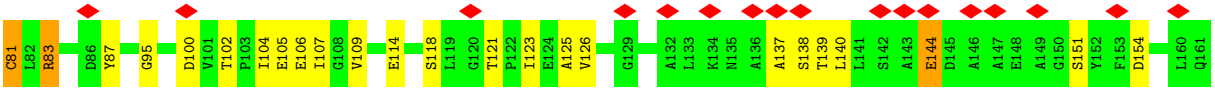
Chain n8:



• Molecule 7: Allophycocyanin subunit alpha 1

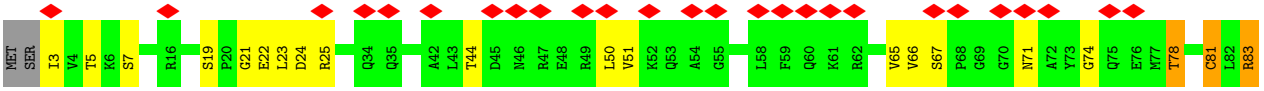
Chain p8:





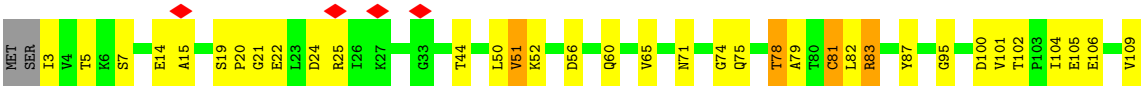
• Molecule 7: Allophycocyanin subunit alpha 1

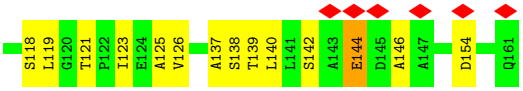
Chain r8:



• Molecule 7: Allophycocyanin subunit alpha 1

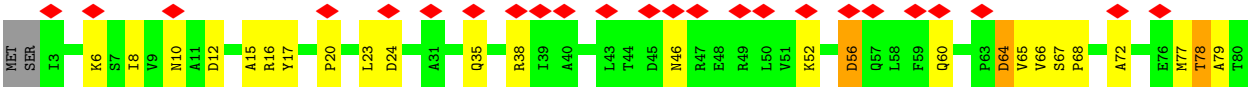
Chain t8:

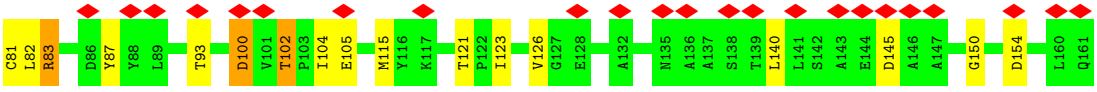




• Molecule 7: Allophycocyanin subunit alpha 1

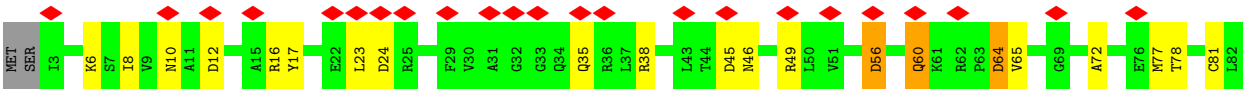
Chain A9:

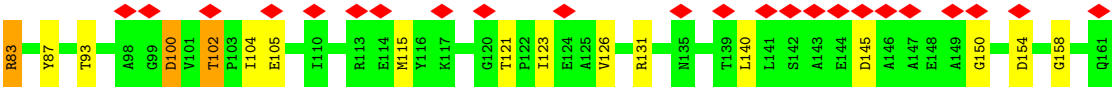




• Molecule 7: Allophycocyanin subunit alpha 1

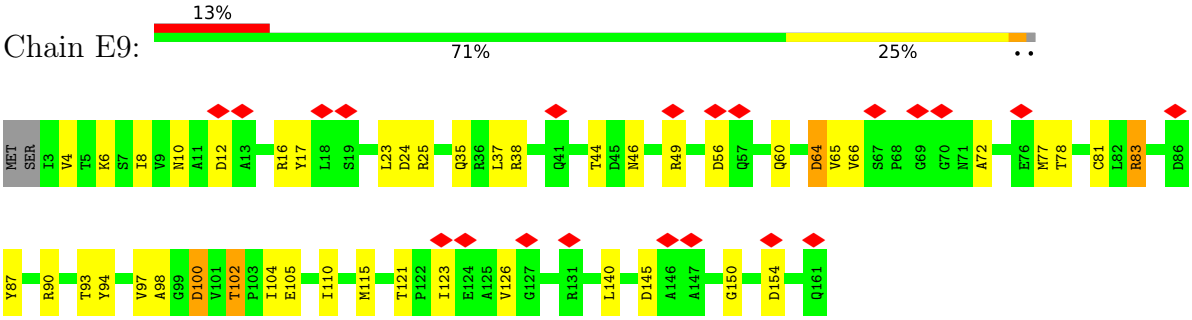
Chain C9:





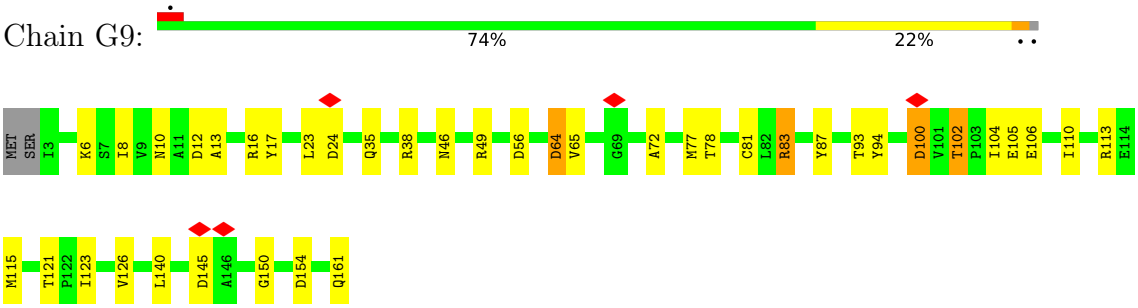
• Molecule 7: Allophycocyanin subunit alpha 1

Chain E9:



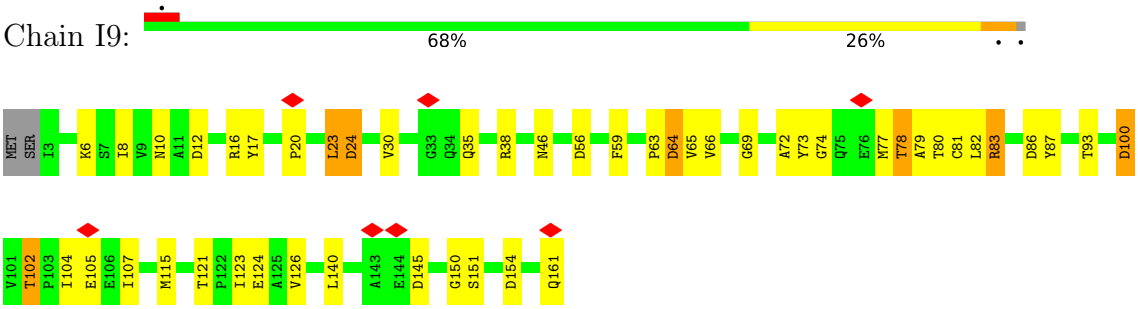
• Molecule 7: Allophycocyanin subunit alpha 1

Chain G9:



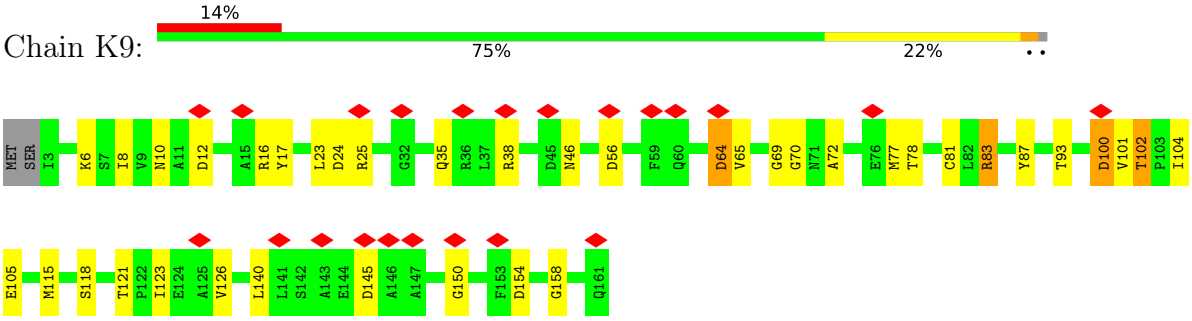
• Molecule 7: Allophycocyanin subunit alpha 1

Chain I9:



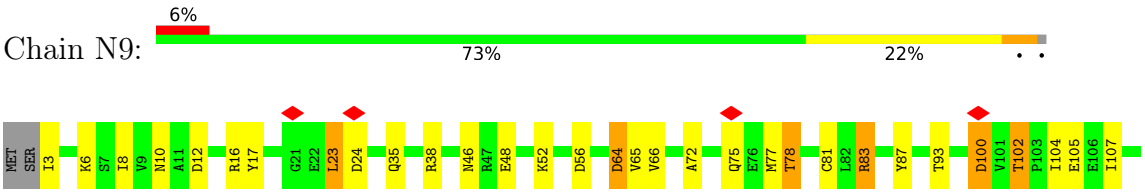
• Molecule 7: Allophycocyanin subunit alpha 1

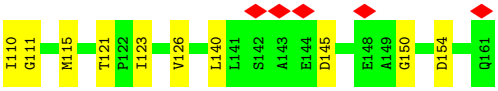
Chain K9:



• Molecule 7: Allophycocyanin subunit alpha 1

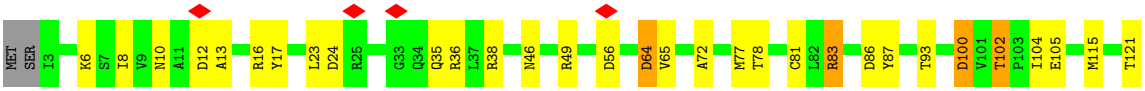
Chain N9:

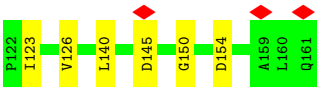




• Molecule 7: Allophycocyanin subunit alpha 1

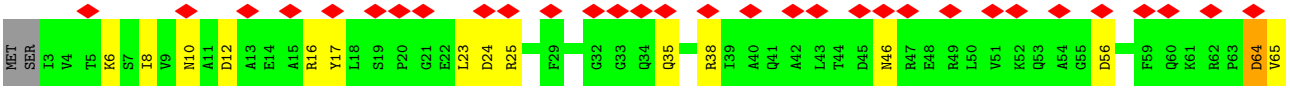
Chain P9:

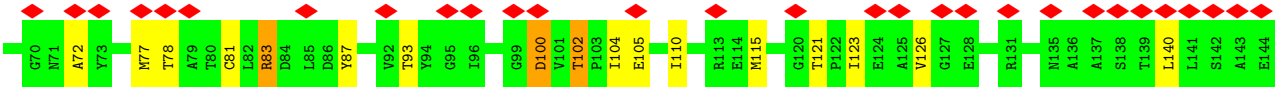


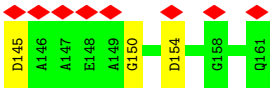


• Molecule 7: Allophycocyanin subunit alpha 1

Chain R9:

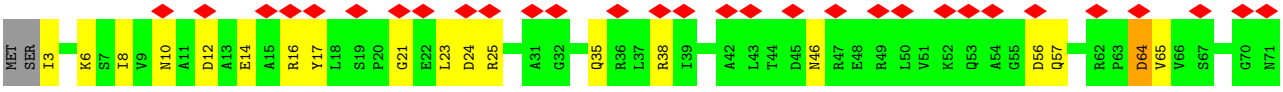


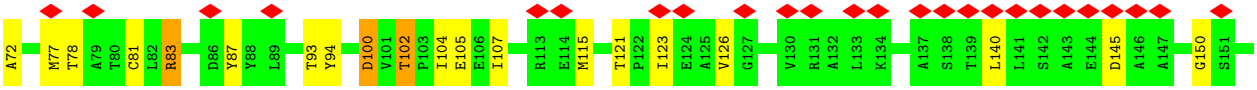




• Molecule 7: Allophycocyanin subunit alpha 1

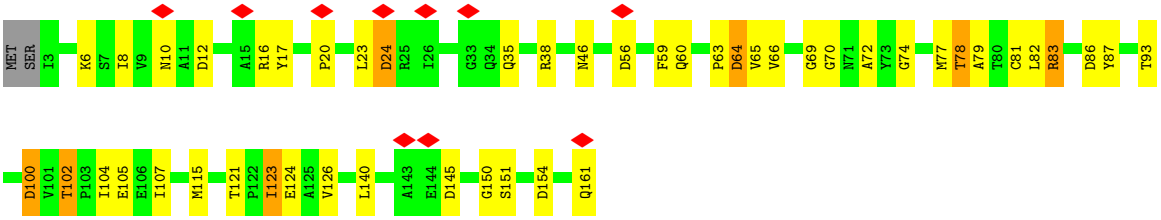
Chain T9:





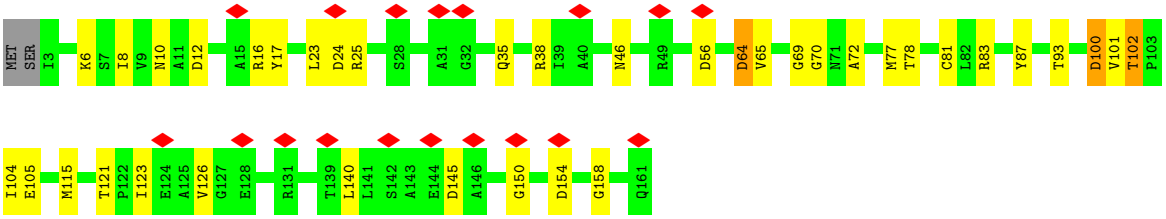
• Molecule 7: Allophycocyanin subunit alpha 1

Chain X9:



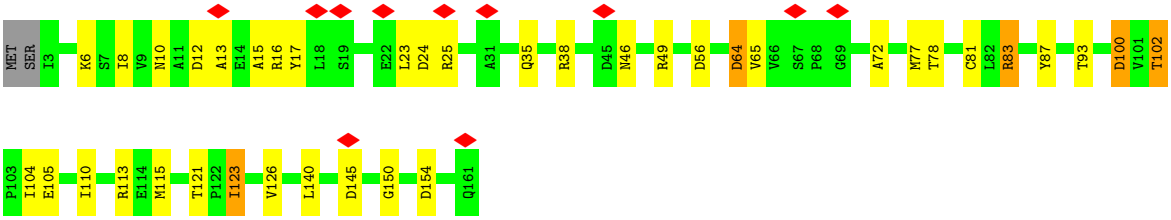
• Molecule 7: Allophycocyanin subunit alpha 1

Chain Z9:



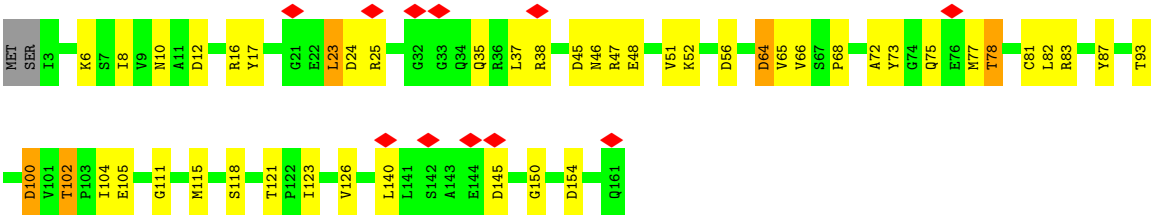
• Molecule 7: Allophycocyanin subunit alpha 1

Chain b9:



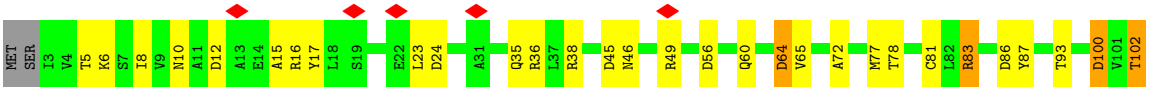
• Molecule 7: Allophycocyanin subunit alpha 1

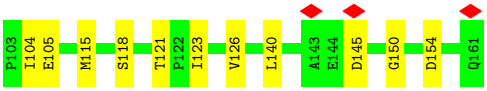
Chain d9:



• Molecule 7: Allophycocyanin subunit alpha 1

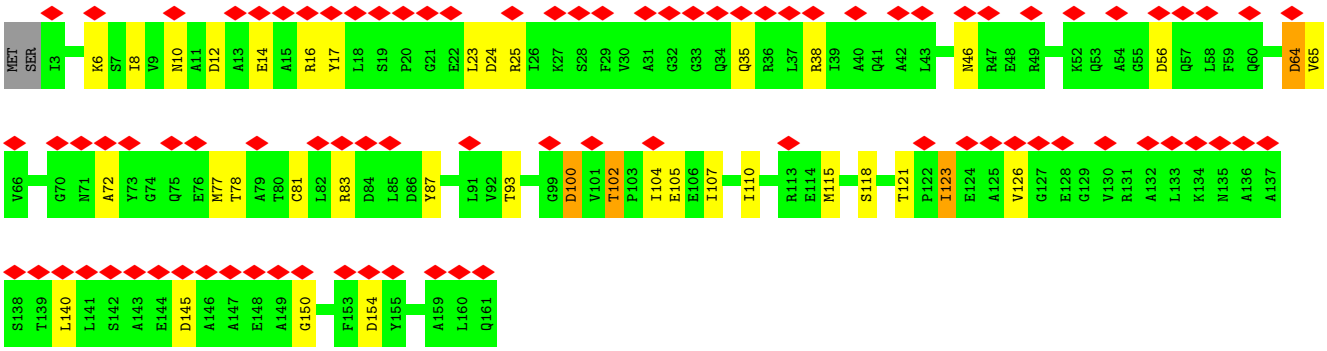
Chain f9:





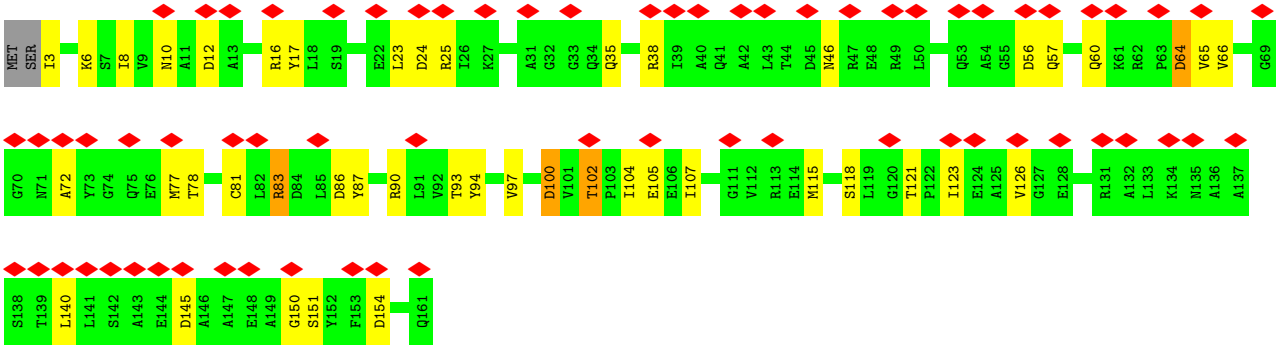
• Molecule 7: Allophycocyanin subunit alpha 1

Chain i9:



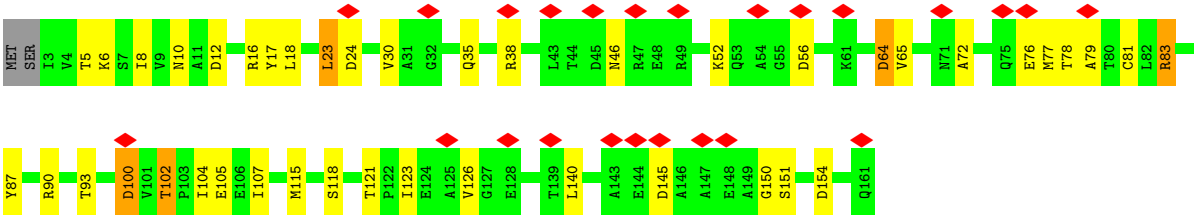
• Molecule 7: Allophycocyanin subunit alpha 1

Chain k9:



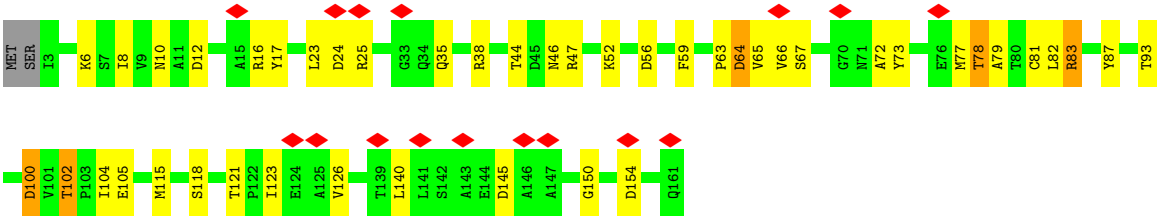
• Molecule 7: Allophycocyanin subunit alpha 1

Chain o9:

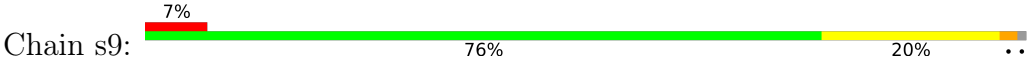


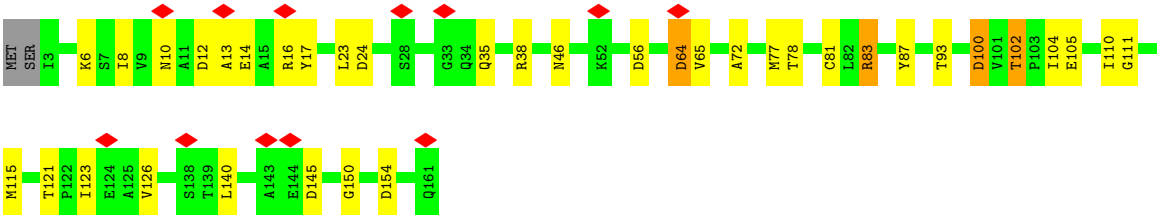
• Molecule 7: Allophycocyanin subunit alpha 1

Chain q9:

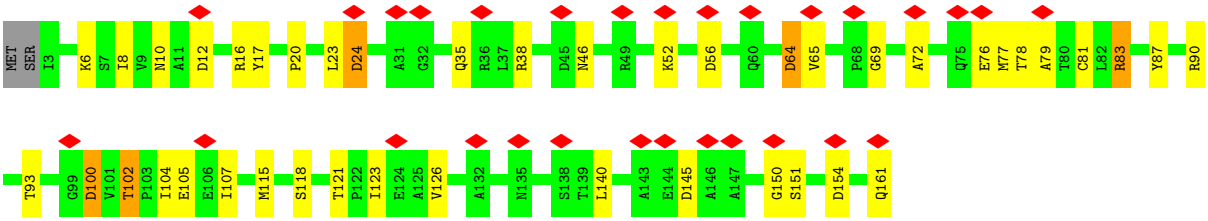


• Molecule 7: Allophycocyanin subunit alpha 1

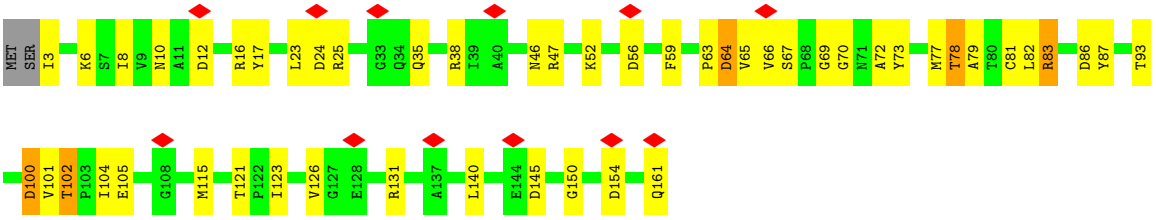




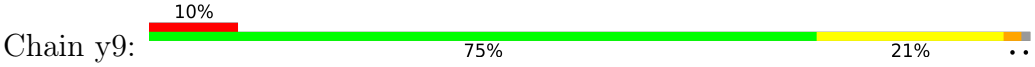
• Molecule 7: Allophycocyanin subunit alpha 1

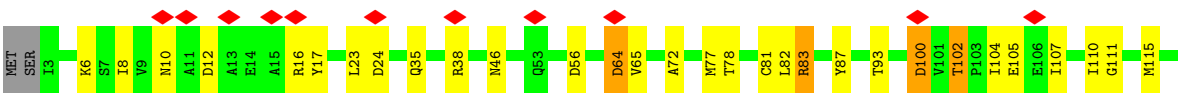


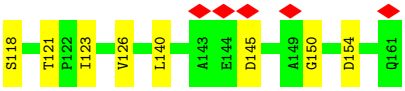
• Molecule 7: Allophycocyanin subunit alpha 1



• Molecule 7: Allophycocyanin subunit alpha 1

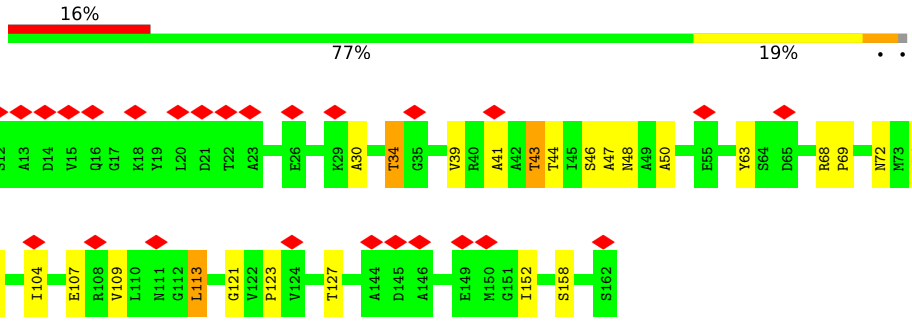






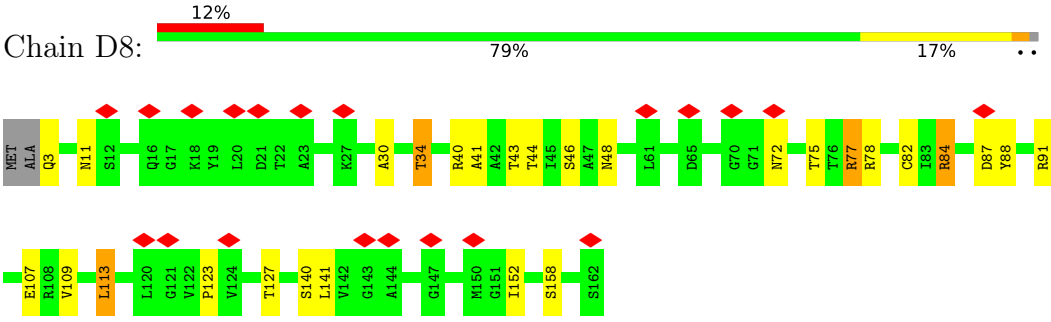
• Molecule 8: Allophycocyanin subunit beta

Chain B8:



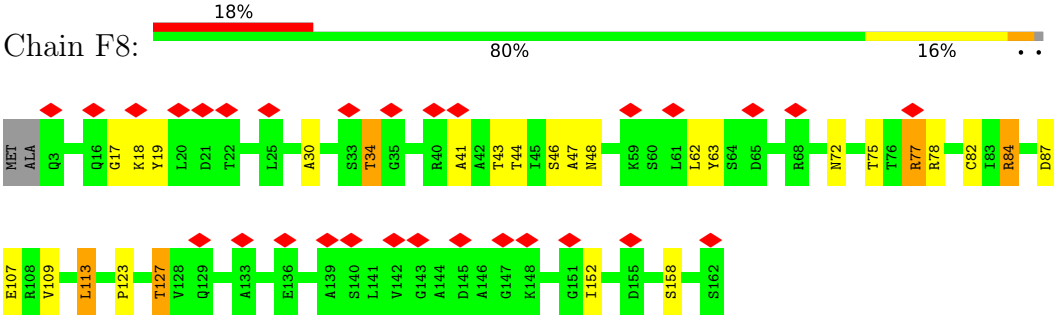
• Molecule 8: Allophycocyanin subunit beta

Chain D8:



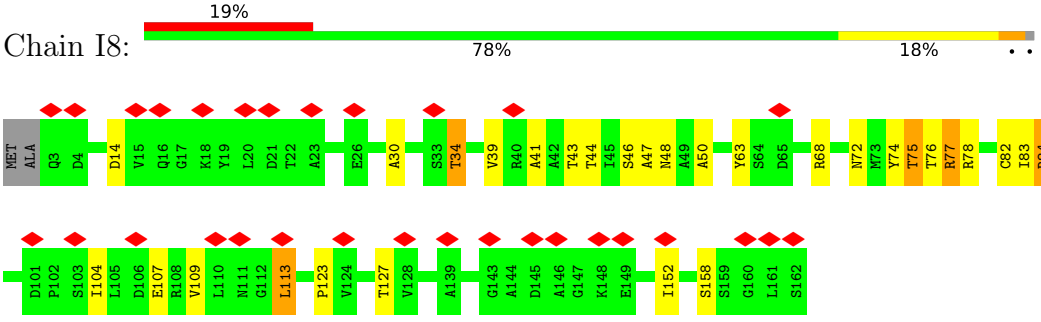
• Molecule 8: Allophycocyanin subunit beta

Chain F8:



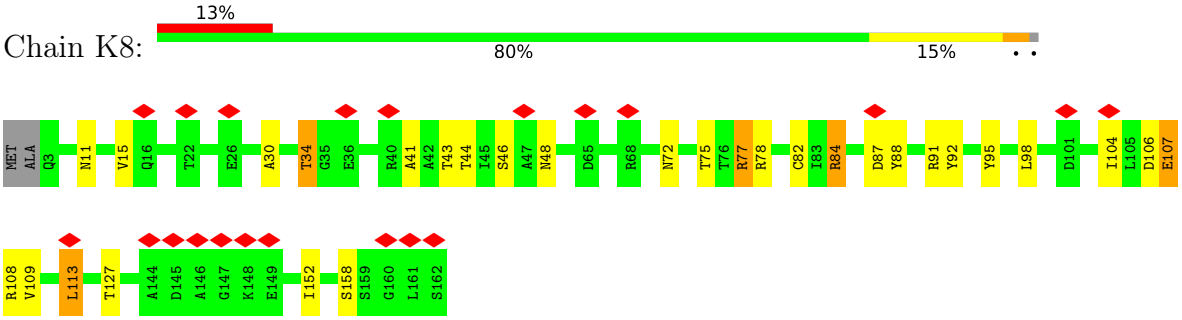
• Molecule 8: Allophycocyanin subunit beta

Chain I8:



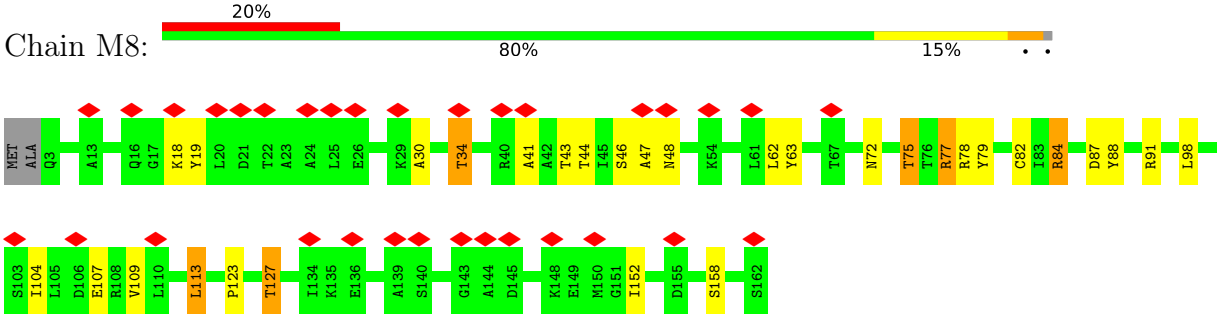
• Molecule 8: Allophycocyanin subunit beta

Chain K8:



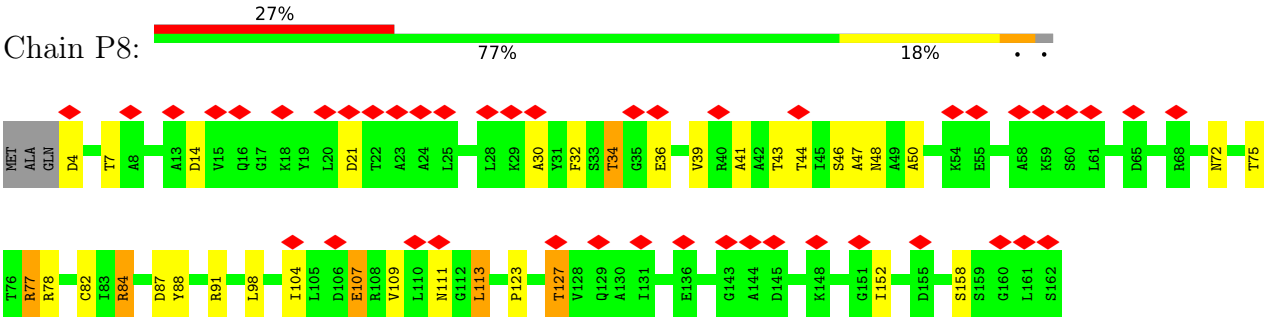
• Molecule 8: Allophycocyanin subunit beta

Chain M8:



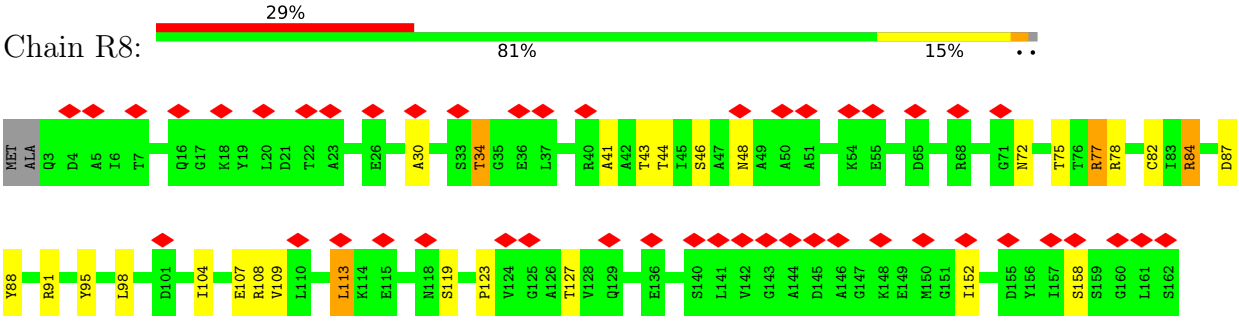
• Molecule 8: Allophycocyanin subunit beta

Chain P8:



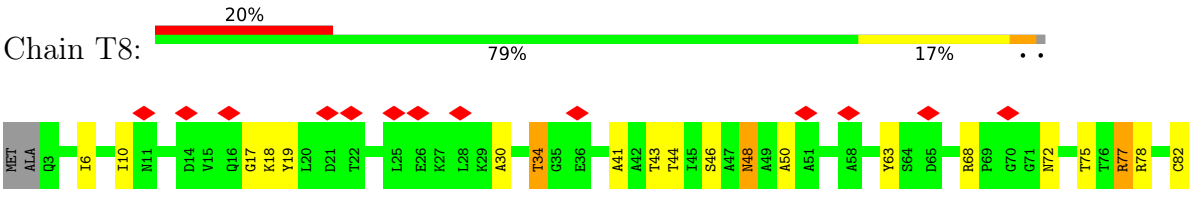
• Molecule 8: Allophycocyanin subunit beta

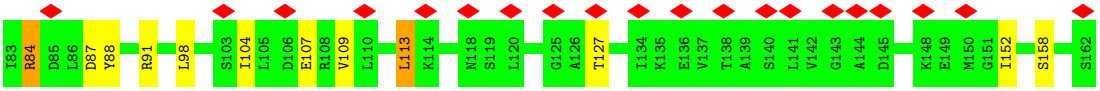
Chain R8:



• Molecule 8: Allophycocyanin subunit beta

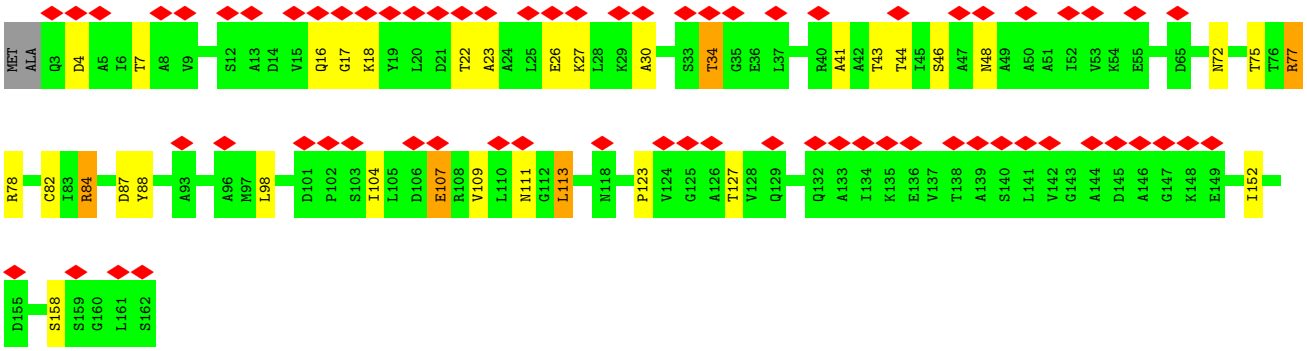
Chain T8:





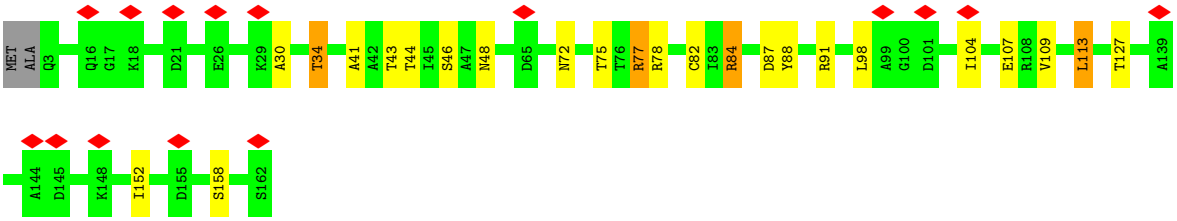
• Molecule 8: Allophycocyanin subunit beta

Chain W8:



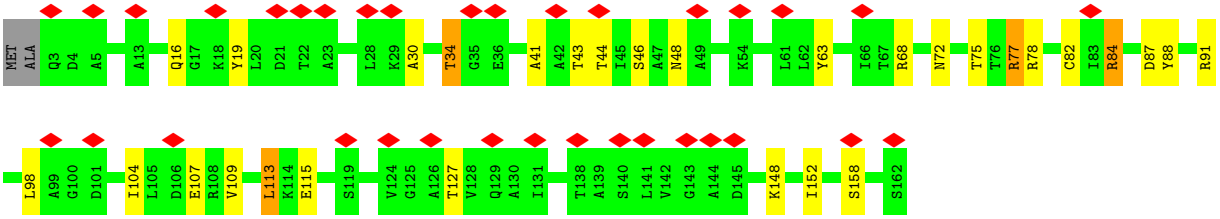
• Molecule 8: Allophycocyanin subunit beta

Chain Y8:



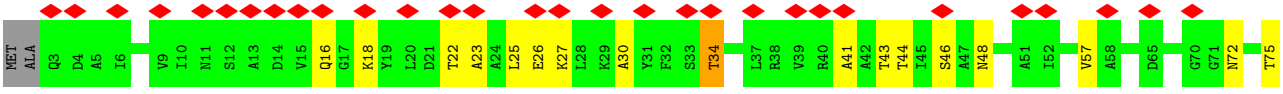
• Molecule 8: Allophycocyanin subunit beta

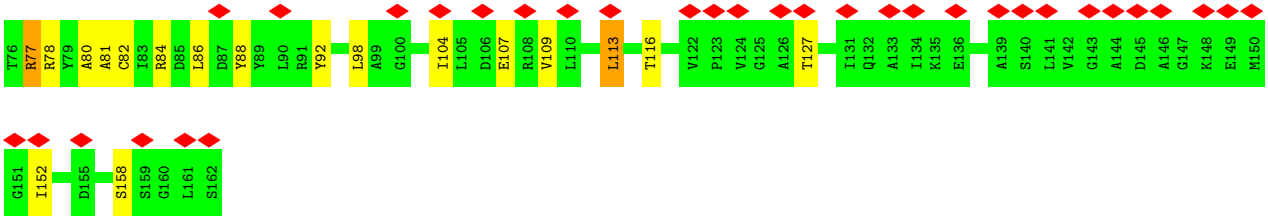
Chain a8:



• Molecule 8: Allophycocyanin subunit beta

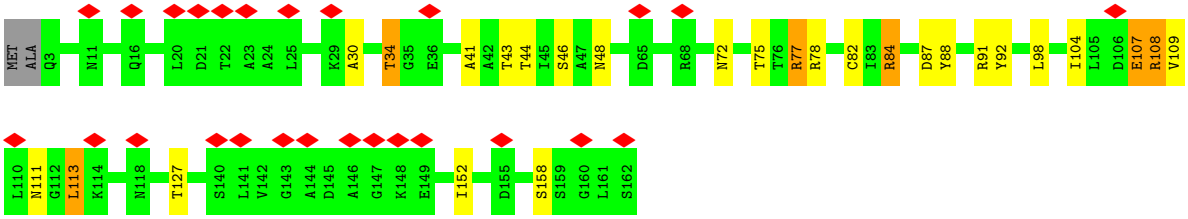
Chain d8:





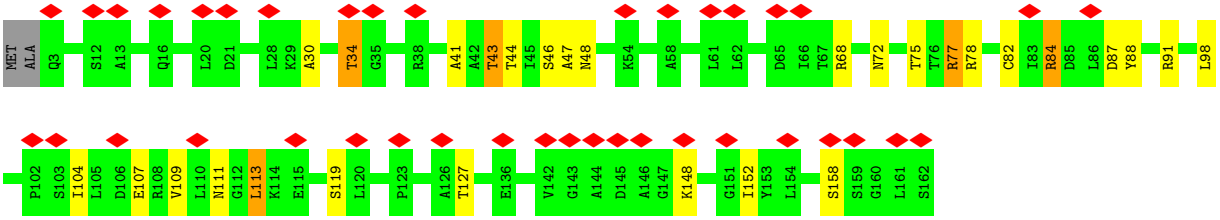
• Molecule 8: Allophycocyanin subunit beta

Chain f8:



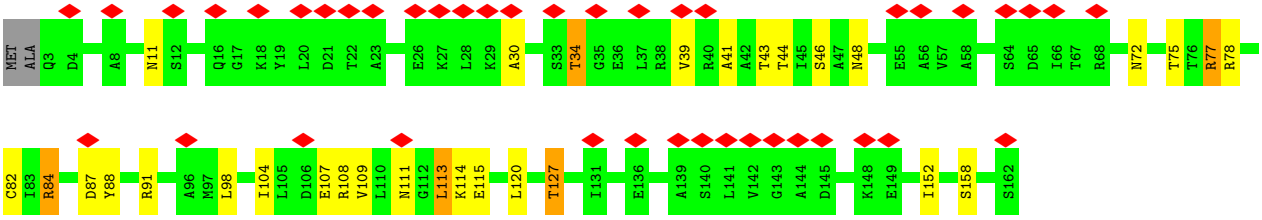
• Molecule 8: Allophycocyanin subunit beta

Chain h8:



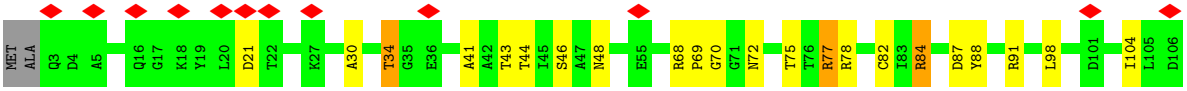
• Molecule 8: Allophycocyanin subunit beta

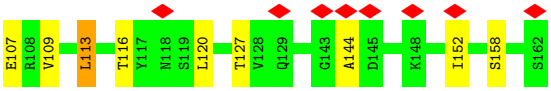
Chain k8:



• Molecule 8: Allophycocyanin subunit beta

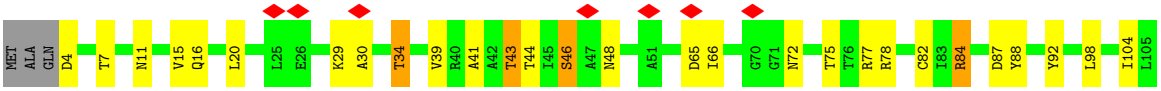
Chain m8:

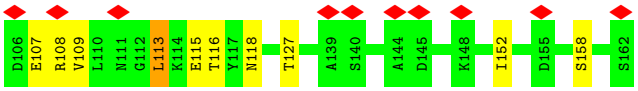




• Molecule 8: Allophycocyanin subunit beta

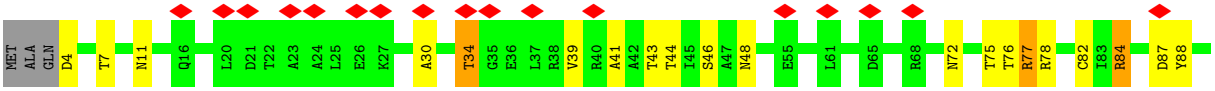
Chain o8:

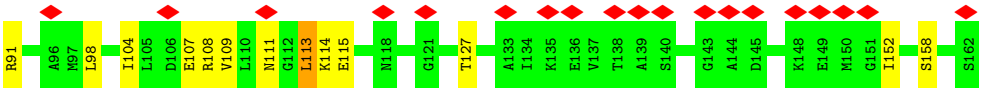




• Molecule 8: Allophycocyanin subunit beta

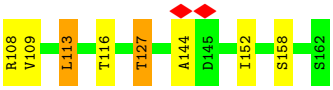
Chain q8:





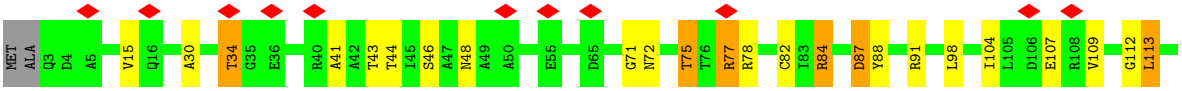
• Molecule 8: Allophycocyanin subunit beta

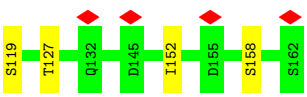
Chain s8:



• Molecule 8: Allophycocyanin subunit beta

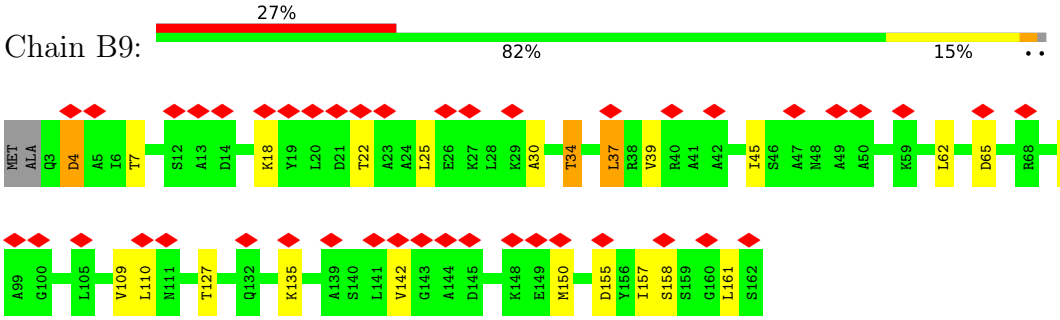
Chain u8:





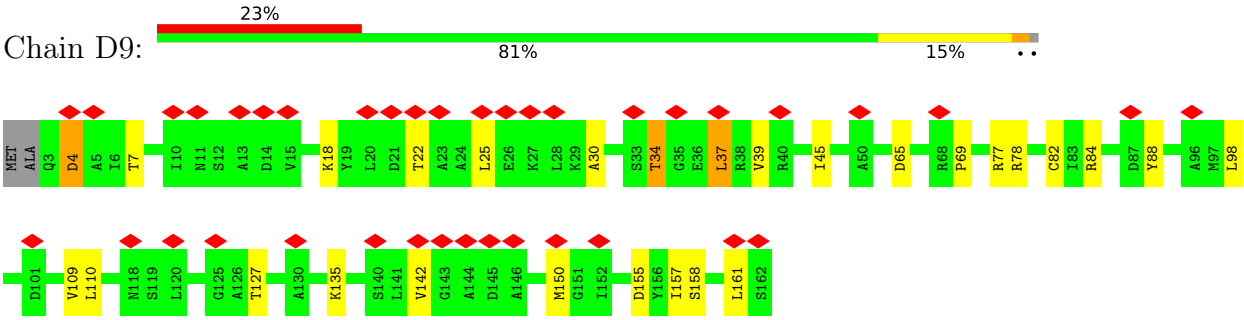
• Molecule 8: Allophycocyanin subunit beta

Chain B9:



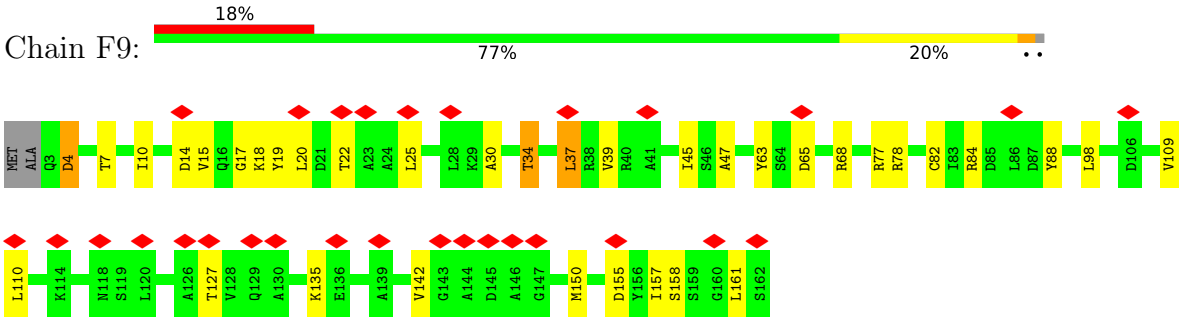
• Molecule 8: Allophycocyanin subunit beta

Chain D9:



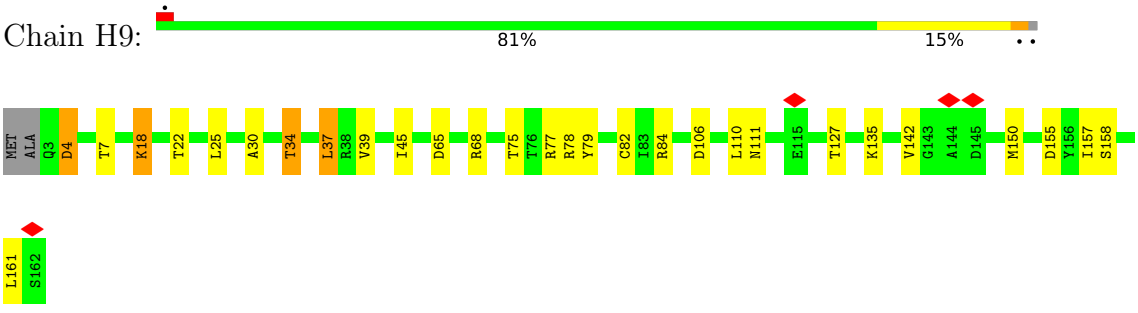
• Molecule 8: Allophycocyanin subunit beta

Chain F9:



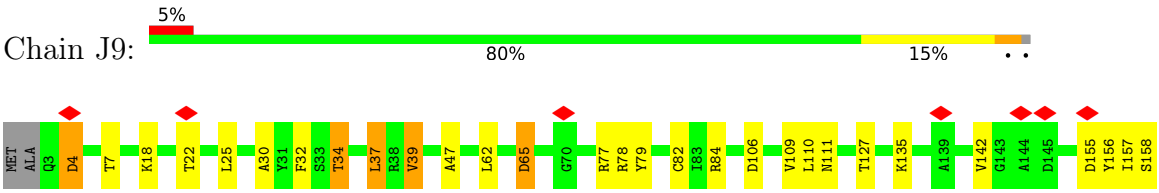
• Molecule 8: Allophycocyanin subunit beta

Chain H9:



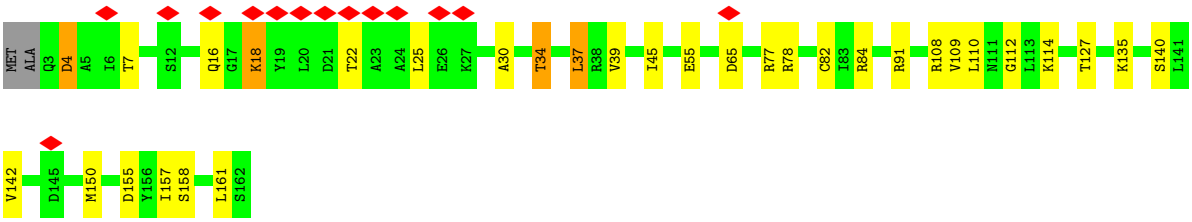
• Molecule 8: Allophycocyanin subunit beta

Chain J9:



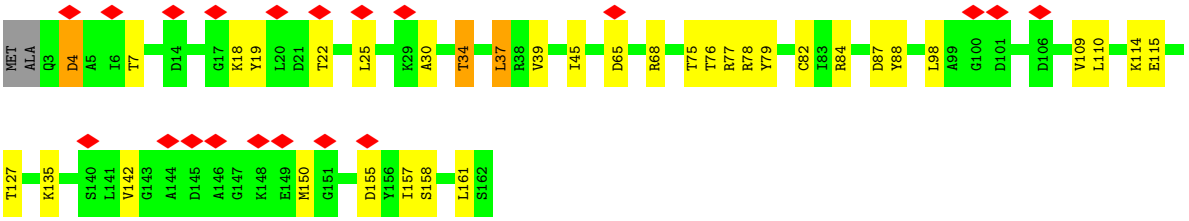
• Molecule 8: Allophycocyanin subunit beta

Chain L9:



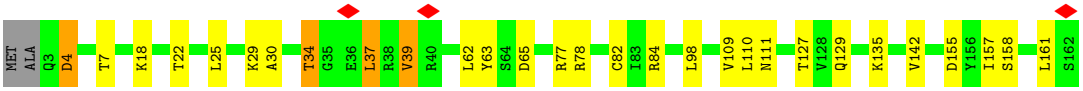
• Molecule 8: Allophycocyanin subunit beta

Chain M9:



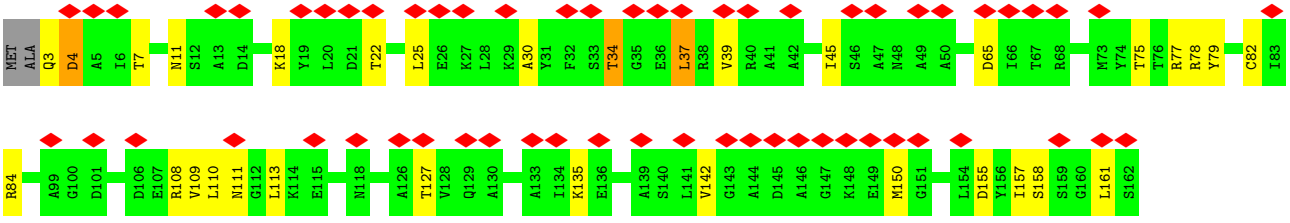
• Molecule 8: Allophycocyanin subunit beta

Chain O9:



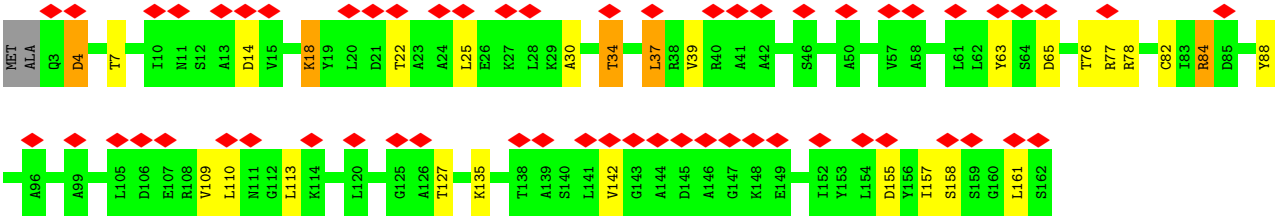
• Molecule 8: Allophycocyanin subunit beta

Chain S9:



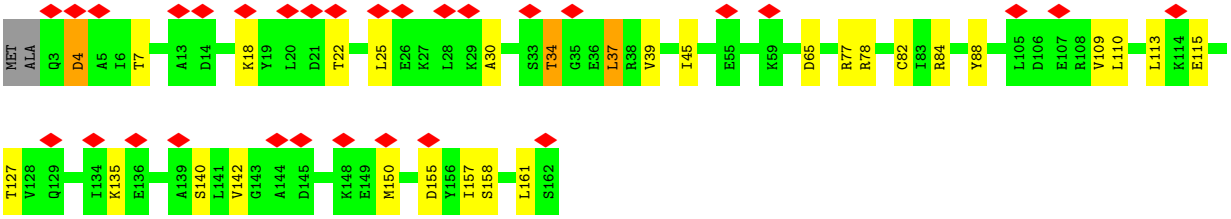
• Molecule 8: Allophycocyanin subunit beta

Chain U9:



• Molecule 8: Allophycocyanin subunit beta

Chain W9:

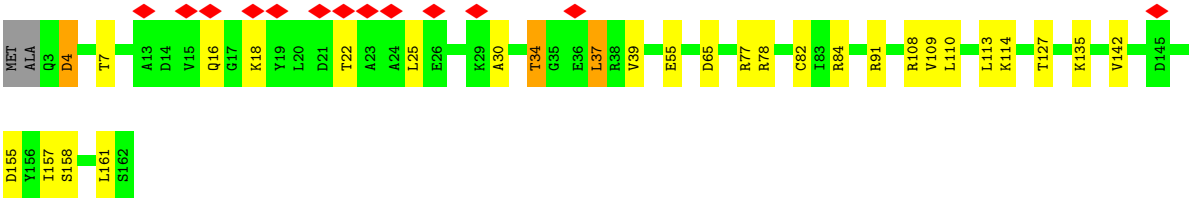


• Molecule 8: Allophycocyanin subunit beta

Chain Y9:

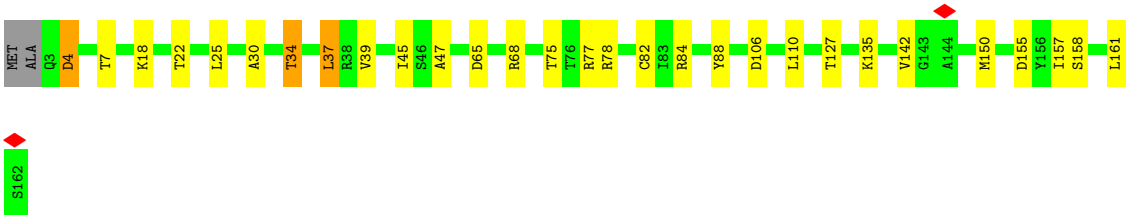
• Molecule 8: Allophycocyanin subunit beta

Chain a9:



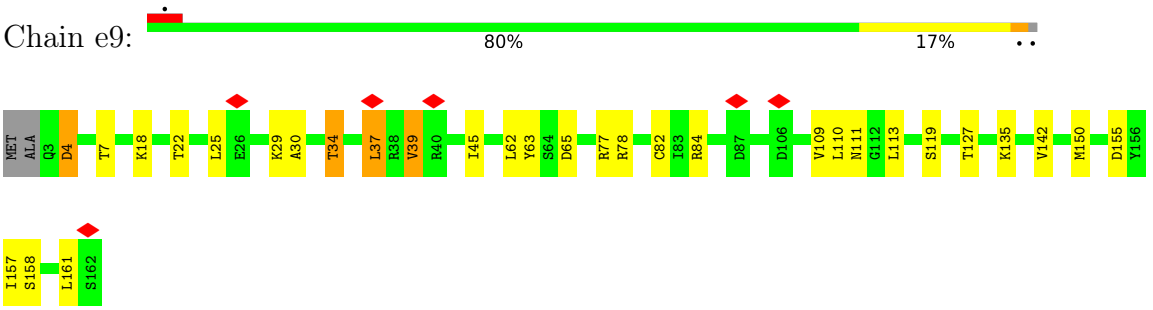
• Molecule 8: Allophycocyanin subunit beta

Chain c9:



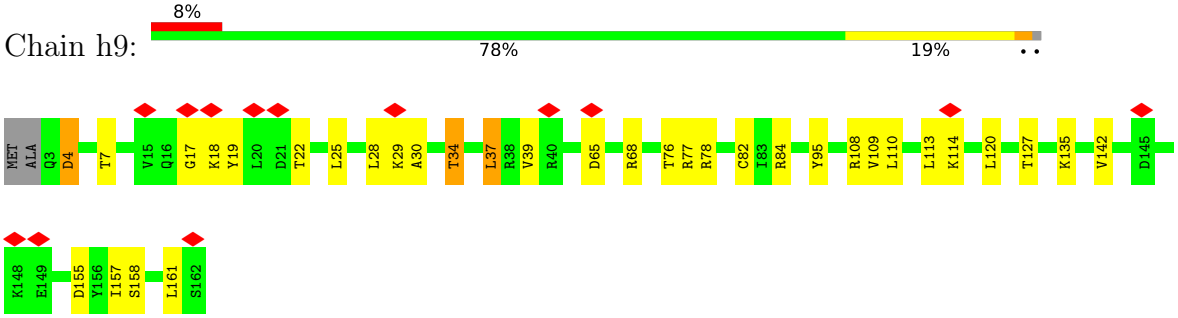
• Molecule 8: Allophycocyanin subunit beta

Chain e9:



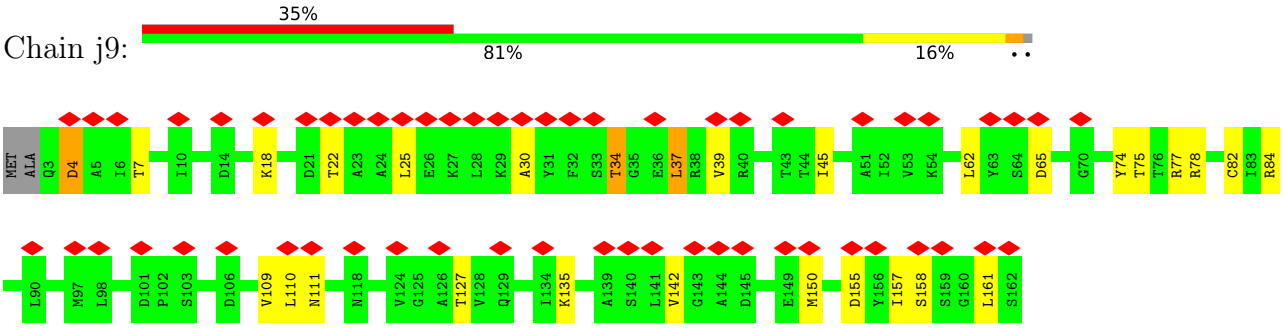
• Molecule 8: Allophycocyanin subunit beta

Chain h9:



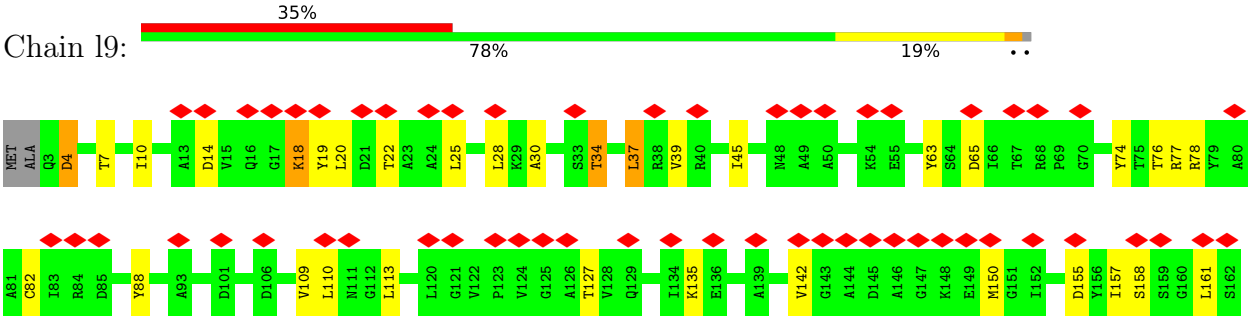
• Molecule 8: Allophycocyanin subunit beta

Chain j9:



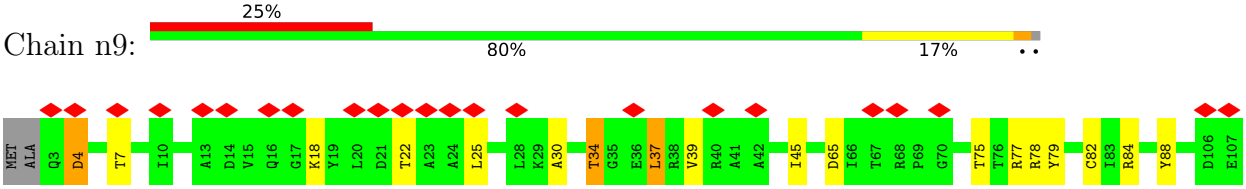
• Molecule 8: Allophycocyanin subunit beta

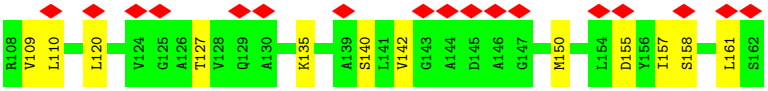
Chain l9:



• Molecule 8: Allophycocyanin subunit beta

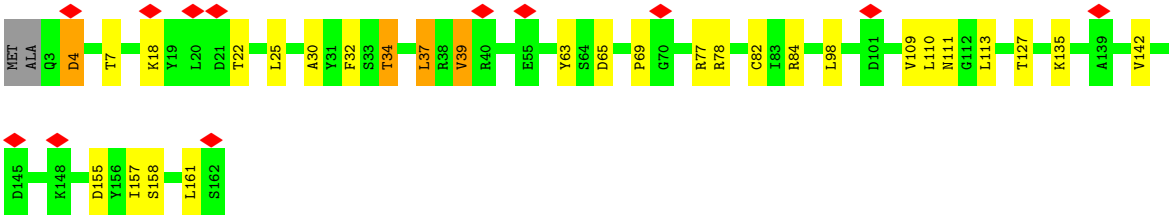
Chain n9:





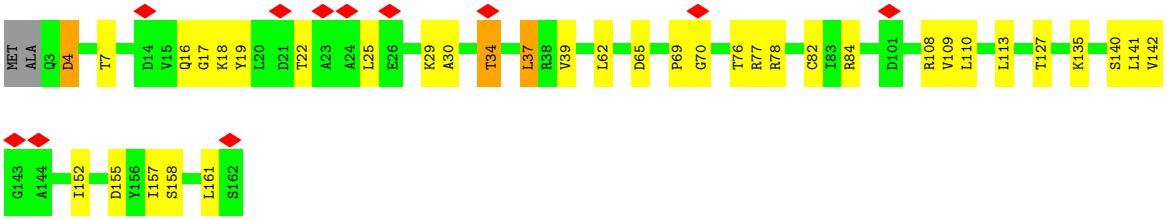
• Molecule 8: Allophycocyanin subunit beta

Chain p9:



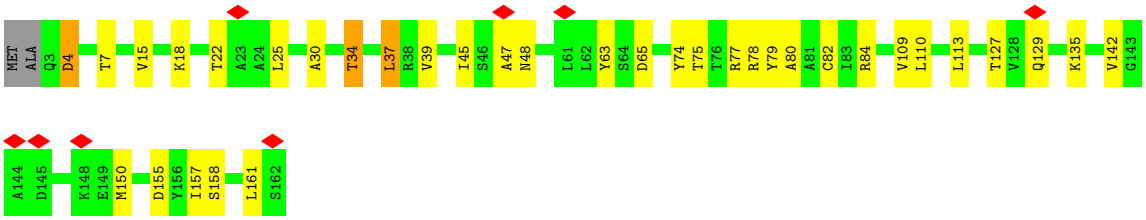
• Molecule 8: Allophycocyanin subunit beta

Chain r9:



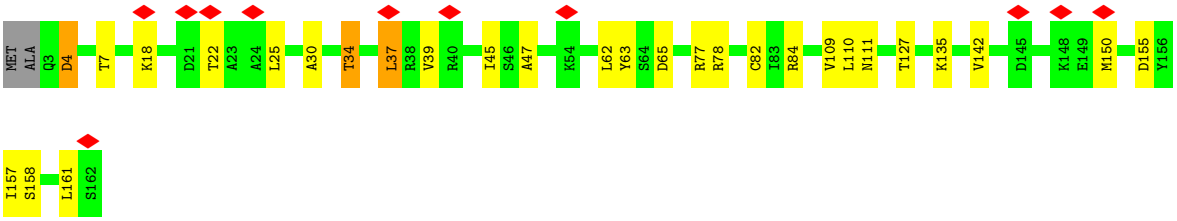
• Molecule 8: Allophycocyanin subunit beta

Chain t9:



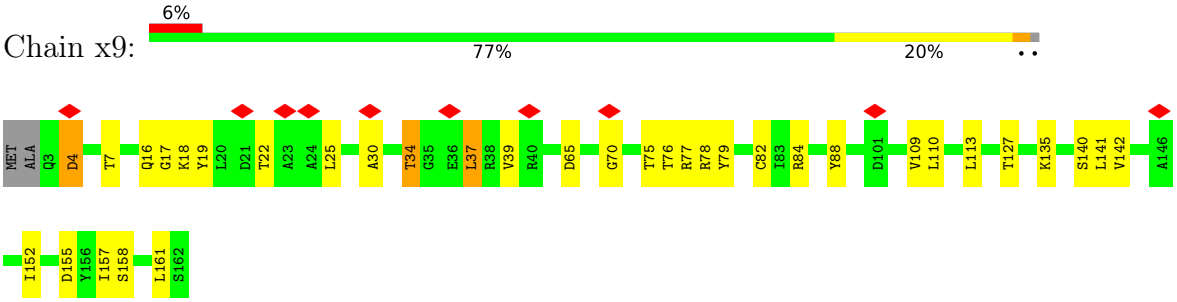
• Molecule 8: Allophycocyanin subunit beta

Chain v9:



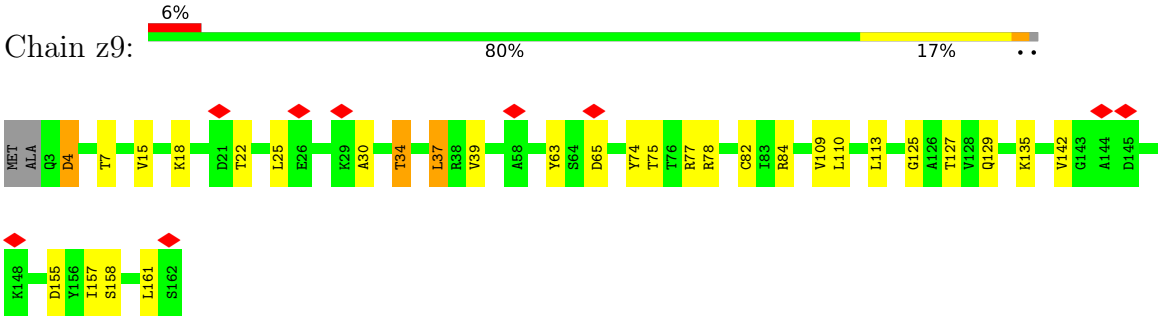
• Molecule 8: Allophycocyanin subunit beta

Chain x9:



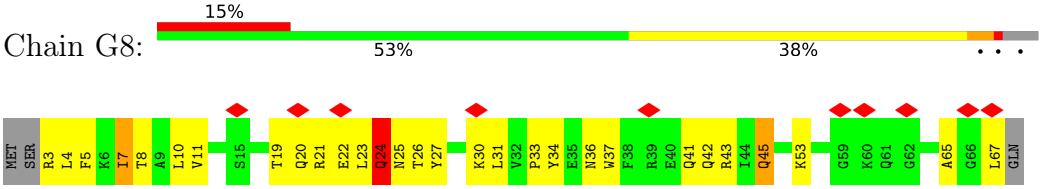
• Molecule 8: Allophycocyanin subunit beta

Chain z9:



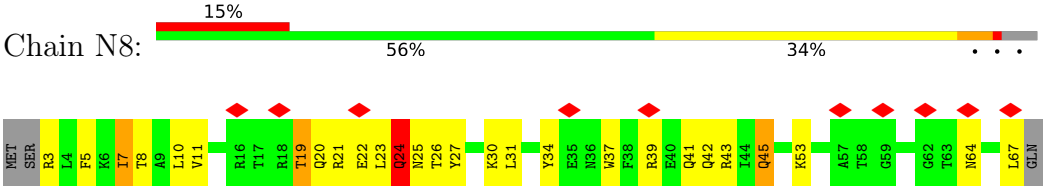
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain G8:



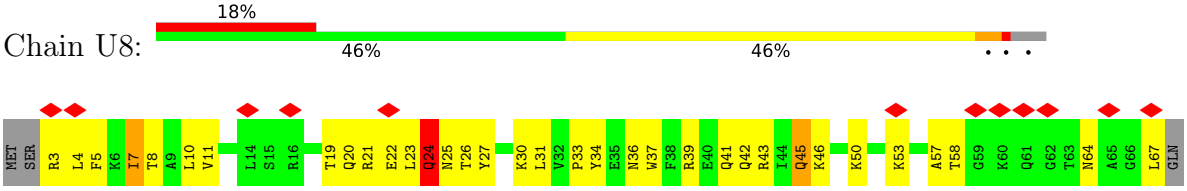
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain N8:



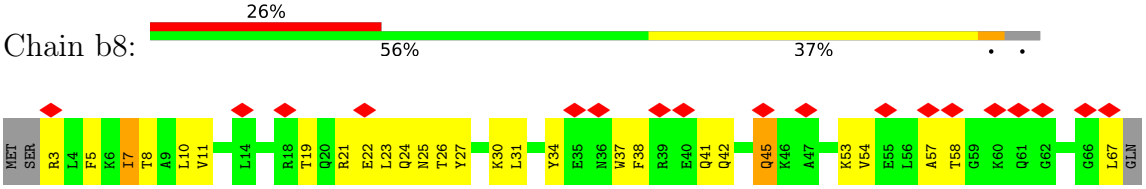
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain U8:



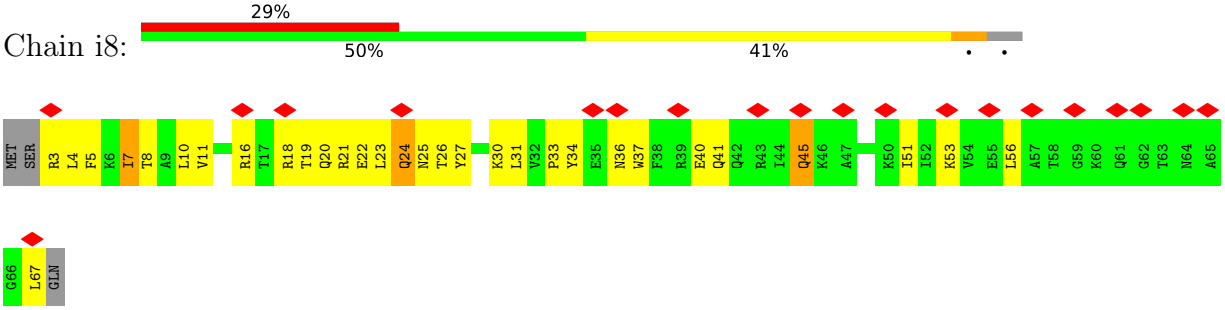
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain b8:



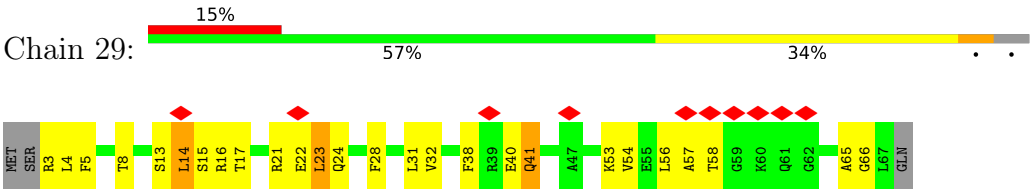
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain i8:



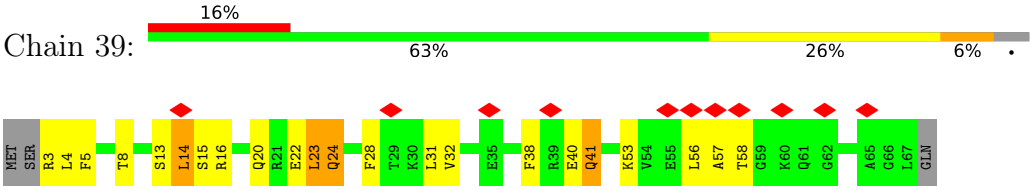
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain 29:



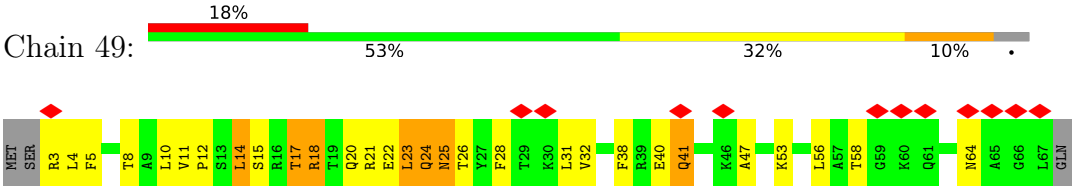
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain 39:



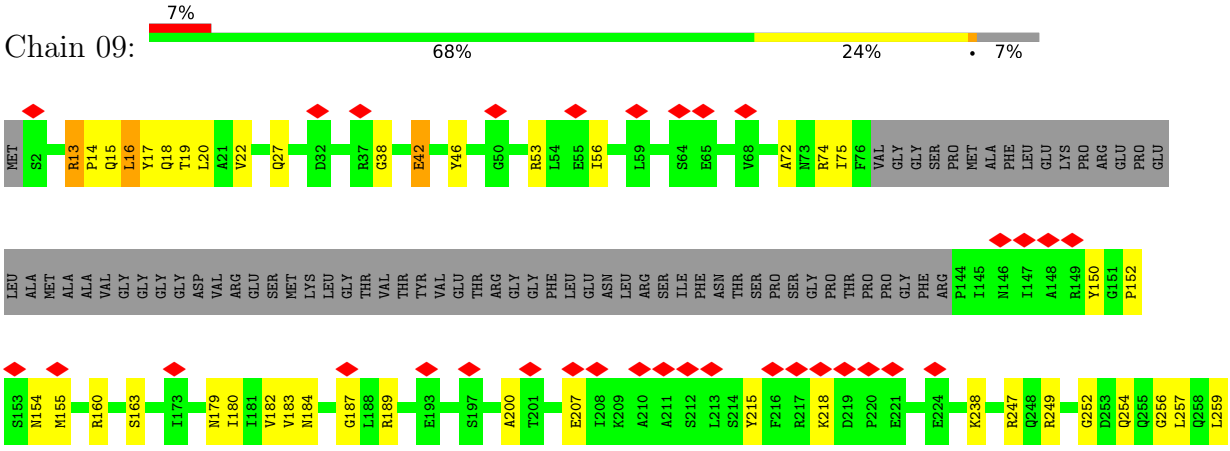
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

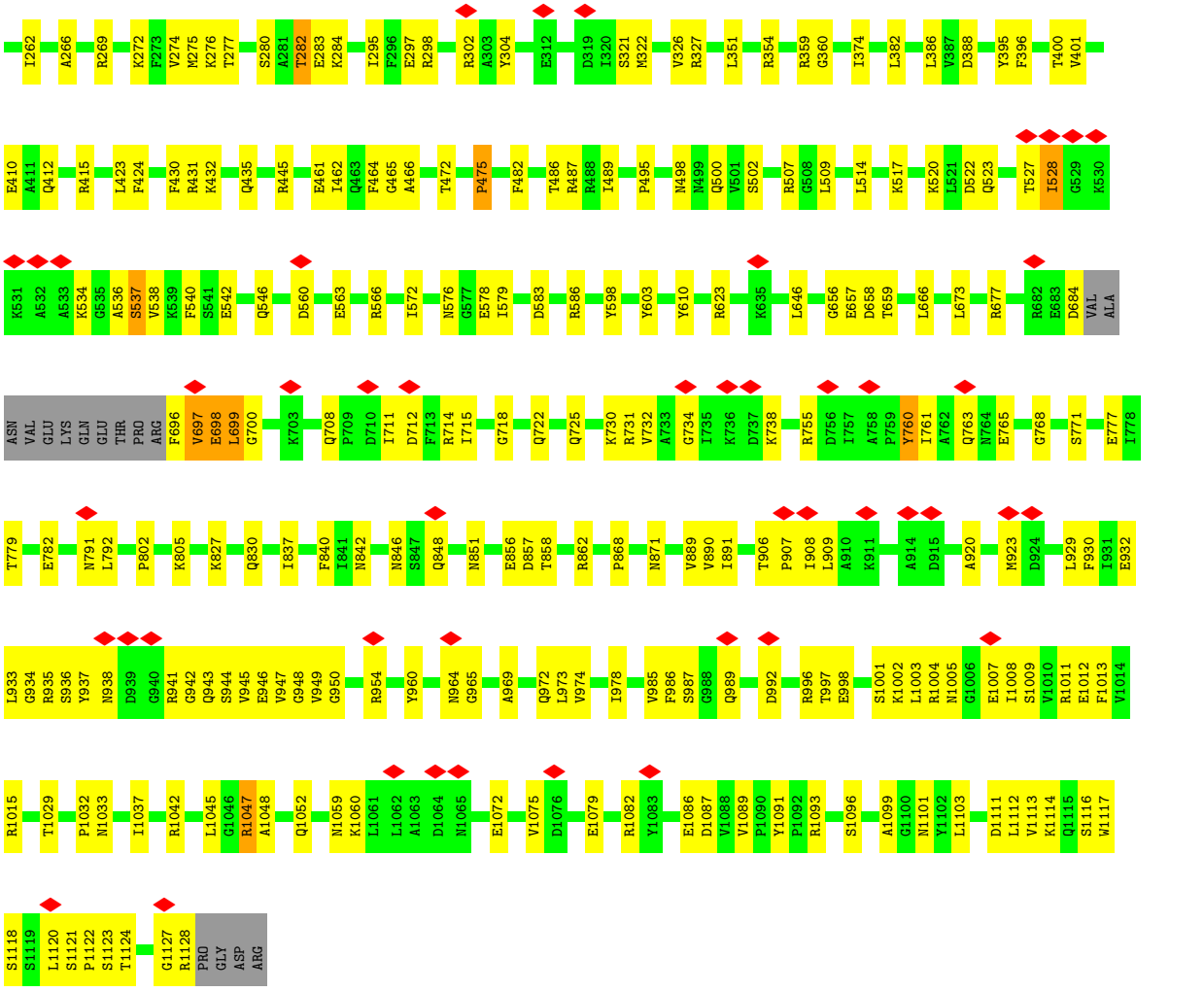
Chain 49:



• Molecule 10: Phycobiliprotein ApcE

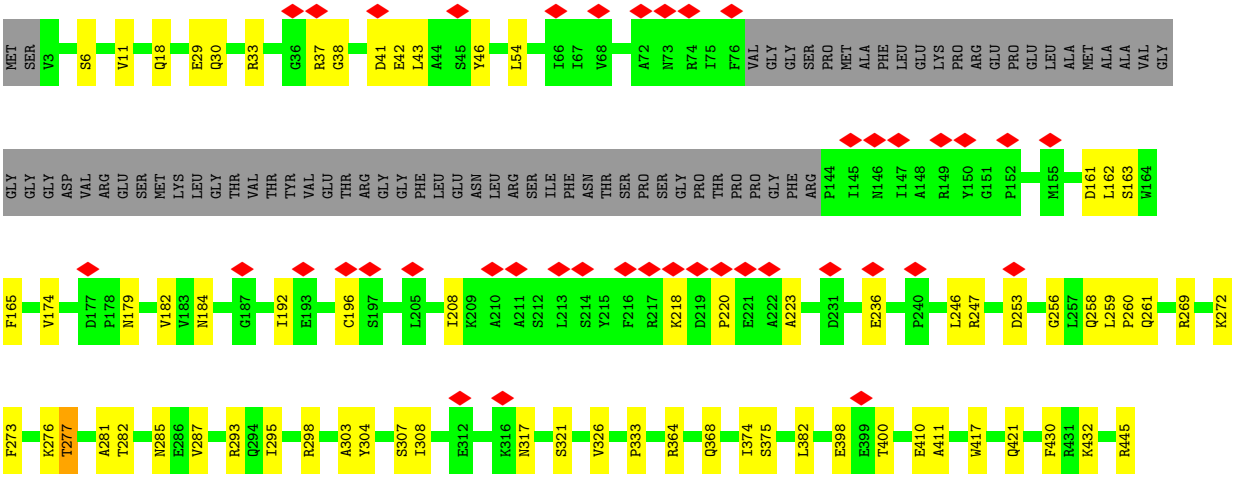
Chain 09:

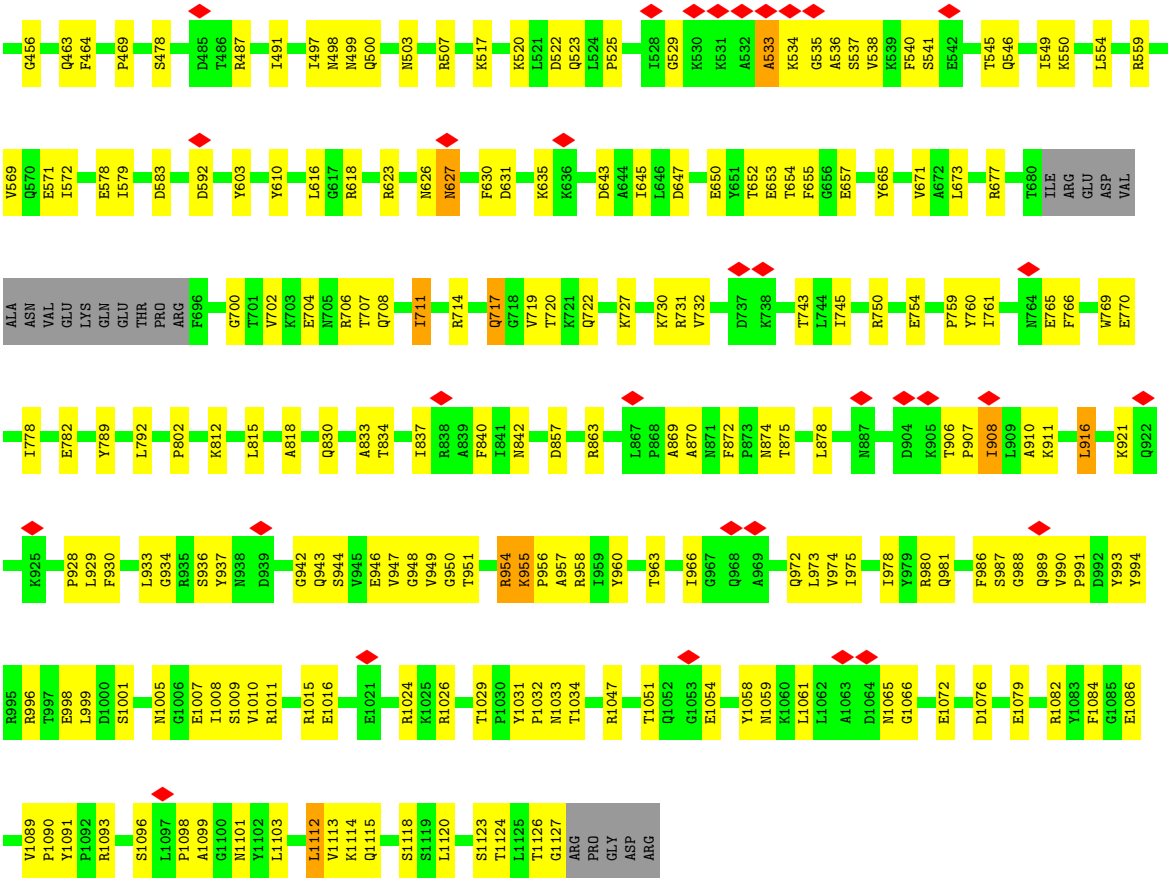




• Molecule 10: Phycobiliprotein ApcE

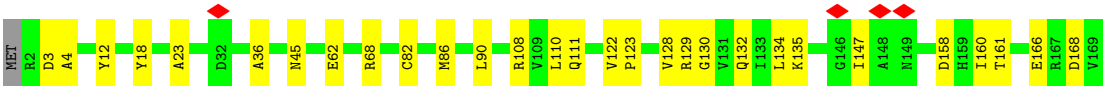
Chain 19:





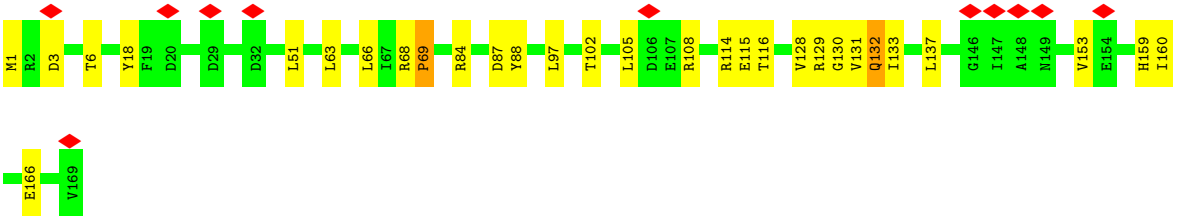
• Molecule 11: Allophycocyanin subunit beta-18

Chain Q9:



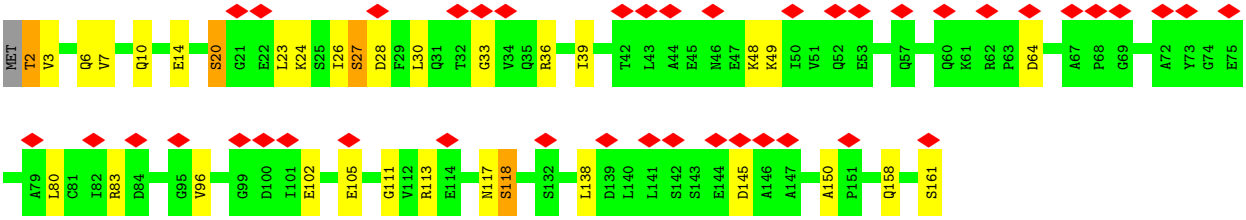
• Molecule 11: Allophycocyanin subunit beta-18

Chain g9:

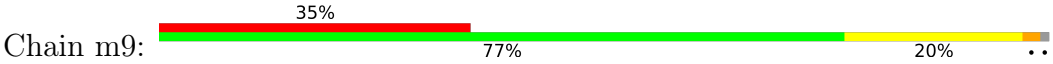


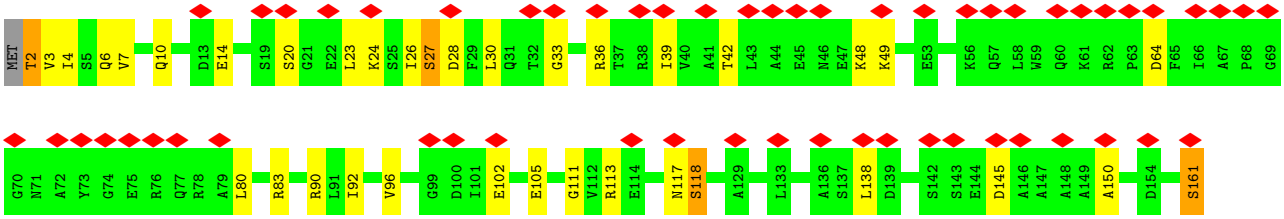
• Molecule 12: Allophycocyanin subunit alpha-B

Chain V9:



• Molecule 12: Allophycocyanin subunit alpha-B





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	62439	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	64	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.083	Depositor
Minimum map value	-0.035	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.006	Depositor
Recommended contour level	0.0195	Depositor
Map size (Å)	527.5, 527.5, 527.5	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.055, 1.055, 1.055	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: CYC

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A1	0.39	0/1814	0.80	4/2452 (0.2%)
1	A4	0.39	0/1814	0.80	4/2452 (0.2%)
2	B1	0.25	0/1246	0.52	0/1693
2	B2	0.31	0/1246	0.54	0/1693
2	B3	0.32	0/1246	0.54	0/1693
2	B4	0.25	0/1246	0.52	0/1693
2	B5	0.30	0/1246	0.49	0/1693
2	B6	0.31	0/1246	0.54	0/1693
2	B7	0.32	0/1246	0.54	0/1693
2	BA	0.30	0/1246	0.49	0/1693
2	D1	0.25	0/1246	0.52	0/1693
2	D2	0.31	0/1246	0.56	0/1693
2	D3	0.32	0/1246	0.56	0/1693
2	D4	0.25	0/1246	0.52	0/1693
2	D5	0.30	0/1246	0.50	0/1693
2	D6	0.31	0/1246	0.56	0/1693
2	D7	0.32	0/1246	0.56	0/1693
2	DA	0.30	0/1246	0.50	0/1693
2	F1	0.25	0/1246	0.51	0/1693
2	F2	0.31	0/1246	0.55	0/1693
2	F3	0.32	0/1246	0.55	0/1693
2	F4	0.25	0/1246	0.51	0/1693
2	F5	0.30	0/1246	0.50	0/1693
2	F6	0.31	0/1246	0.55	0/1693
2	F7	0.32	0/1246	0.55	0/1693
2	FA	0.30	0/1246	0.50	0/1693
2	H1	0.25	0/1246	0.53	0/1693
2	H2	0.31	0/1246	0.54	0/1693
2	H3	0.32	0/1246	0.54	0/1693
2	H4	0.25	0/1246	0.53	0/1693
2	H5	0.30	0/1246	0.52	0/1693
2	H6	0.31	0/1246	0.54	0/1693

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	H7	0.32	0/1246	0.54	0/1693
2	HA	0.30	0/1246	0.52	0/1693
2	J1	0.25	0/1246	0.51	0/1693
2	J2	0.32	0/1246	0.54	0/1693
2	J3	0.32	0/1246	0.55	0/1693
2	J4	0.25	0/1246	0.51	0/1693
2	J5	0.30	0/1246	0.50	0/1693
2	J6	0.32	0/1246	0.54	0/1693
2	J7	0.32	0/1246	0.55	0/1693
2	JA	0.30	0/1246	0.50	0/1693
2	L1	0.26	0/1246	0.56	0/1693
2	L2	0.31	0/1246	0.60	2/1693 (0.1%)
2	L3	0.31	0/1246	0.60	2/1693 (0.1%)
2	L4	0.26	0/1246	0.56	0/1693
2	L5	0.30	0/1246	0.51	0/1693
2	L6	0.31	0/1246	0.60	2/1693 (0.1%)
2	L7	0.31	0/1246	0.60	2/1693 (0.1%)
2	LA	0.30	0/1246	0.51	0/1693
2	O1	0.25	0/1246	0.52	0/1693
2	O2	0.31	0/1246	0.55	0/1693
2	O4	0.25	0/1246	0.52	0/1693
2	O5	0.30	0/1246	0.51	0/1693
2	O6	0.31	0/1246	0.55	0/1693
2	OA	0.30	0/1246	0.51	0/1693
2	Q1	0.25	0/1246	0.52	0/1693
2	Q2	0.31	0/1246	0.60	2/1693 (0.1%)
2	Q4	0.25	0/1246	0.52	0/1693
2	Q5	0.30	0/1246	0.52	0/1693
2	Q6	0.31	0/1246	0.61	2/1693 (0.1%)
2	QA	0.30	0/1246	0.52	0/1693
2	S1	0.25	0/1246	0.51	0/1693
2	S2	0.32	0/1246	0.64	3/1693 (0.2%)
2	S4	0.25	0/1246	0.51	0/1693
2	S5	0.30	0/1246	0.50	0/1693
2	S6	0.32	0/1246	0.64	3/1693 (0.2%)
2	SA	0.30	0/1246	0.50	0/1693
2	U1	0.25	0/1246	0.53	0/1693
2	U2	0.31	0/1246	0.53	0/1693
2	U4	0.25	0/1246	0.53	0/1693
2	U5	0.30	0/1246	0.50	0/1693
2	U6	0.31	0/1246	0.53	0/1693
2	UA	0.30	0/1246	0.50	0/1693
2	W1	0.25	0/1246	0.52	0/1693

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	W2	0.31	0/1246	0.53	0/1693
2	W4	0.25	0/1246	0.52	0/1693
2	W5	0.30	0/1246	0.51	0/1693
2	W6	0.31	0/1246	0.53	0/1693
2	WA	0.30	0/1246	0.51	0/1693
2	Y1	0.25	0/1246	0.51	0/1693
2	Y2	0.31	0/1246	0.54	0/1693
2	Y4	0.25	0/1246	0.51	0/1693
2	Y5	0.30	0/1246	0.51	0/1693
2	Y6	0.31	0/1246	0.54	0/1693
2	YA	0.30	0/1246	0.51	0/1693
3	C1	0.30	0/1290	0.65	1/1748 (0.1%)
3	C2	0.41	0/1290	0.77	2/1748 (0.1%)
3	C3	0.41	0/1290	0.77	2/1748 (0.1%)
3	C4	0.29	0/1290	0.65	1/1748 (0.1%)
3	C5	0.40	0/1290	0.79	4/1748 (0.2%)
3	C6	0.41	0/1290	0.77	2/1748 (0.1%)
3	C7	0.41	0/1290	0.77	2/1748 (0.1%)
3	CA	0.40	0/1290	0.80	4/1748 (0.2%)
3	E1	0.29	0/1290	0.61	0/1748
3	E2	0.39	0/1298	0.75	1/1758 (0.1%)
3	E3	0.40	0/1298	0.76	1/1758 (0.1%)
3	E4	0.29	0/1290	0.61	1/1748 (0.1%)
3	E5	0.41	0/1290	0.79	4/1748 (0.2%)
3	E6	0.39	0/1298	0.76	1/1758 (0.1%)
3	E7	0.39	0/1298	0.76	1/1758 (0.1%)
3	EA	0.41	0/1290	0.78	4/1748 (0.2%)
3	G1	0.29	0/1290	0.61	1/1748 (0.1%)
3	G2	0.42	0/1298	0.79	3/1758 (0.2%)
3	G3	0.42	0/1298	0.79	3/1758 (0.2%)
3	G4	0.29	0/1290	0.60	1/1748 (0.1%)
3	G5	0.40	0/1290	0.79	4/1748 (0.2%)
3	G6	0.42	0/1298	0.79	3/1758 (0.2%)
3	G7	0.42	0/1298	0.79	3/1758 (0.2%)
3	GA	0.41	0/1290	0.79	4/1748 (0.2%)
3	I1	0.29	0/1298	0.65	0/1758
3	I2	0.43	0/1298	0.77	2/1758 (0.1%)
3	I3	0.44	0/1298	0.77	2/1758 (0.1%)
3	I4	0.29	0/1298	0.65	1/1758 (0.1%)
3	I5	0.40	0/1290	0.83	7/1748 (0.4%)
3	I6	0.43	0/1298	0.77	2/1758 (0.1%)
3	I7	0.44	0/1298	0.77	2/1758 (0.1%)
3	IA	0.40	0/1290	0.83	7/1748 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	K1	0.30	0/1290	0.64	1/1748 (0.1%)
3	K2	0.42	0/1290	0.78	1/1748 (0.1%)
3	K3	0.42	0/1290	0.78	1/1748 (0.1%)
3	K4	0.30	0/1290	0.64	1/1748 (0.1%)
3	K5	0.41	0/1290	0.81	4/1748 (0.2%)
3	K6	0.42	0/1290	0.78	1/1748 (0.1%)
3	K7	0.42	0/1290	0.78	1/1748 (0.1%)
3	KA	0.41	0/1290	0.81	4/1748 (0.2%)
3	M1	0.27	0/1290	0.63	2/1748 (0.1%)
3	M2	0.42	0/1290	0.89	3/1748 (0.2%)
3	M3	0.43	0/1290	0.89	3/1748 (0.2%)
3	M4	0.27	0/1290	0.63	2/1748 (0.1%)
3	M5	0.41	0/1290	0.82	6/1748 (0.3%)
3	M6	0.42	0/1290	0.89	3/1748 (0.2%)
3	M7	0.42	0/1290	0.89	3/1748 (0.2%)
3	MA	0.41	0/1290	0.82	6/1748 (0.3%)
3	P1	0.29	0/1290	0.62	1/1748 (0.1%)
3	P2	0.39	0/1290	0.90	4/1748 (0.2%)
3	P4	0.29	0/1290	0.62	1/1748 (0.1%)
3	P5	0.41	0/1290	0.81	6/1748 (0.3%)
3	P6	0.39	0/1290	0.90	4/1748 (0.2%)
3	PA	0.41	0/1290	0.81	6/1748 (0.3%)
3	R1	0.26	0/1290	0.58	1/1748 (0.1%)
3	R2	0.40	0/1290	0.77	3/1748 (0.2%)
3	R4	0.26	0/1290	0.58	1/1748 (0.1%)
3	R5	0.41	0/1290	0.78	4/1748 (0.2%)
3	R6	0.40	0/1290	0.77	3/1748 (0.2%)
3	RA	0.41	0/1290	0.78	4/1748 (0.2%)
3	T1	0.27	0/1290	0.63	0/1748
3	T2	0.43	0/1290	0.84	4/1748 (0.2%)
3	T4	0.27	0/1290	0.63	0/1748
3	T5	0.41	0/1290	0.80	5/1748 (0.3%)
3	T6	0.43	0/1290	0.84	4/1748 (0.2%)
3	TA	0.41	0/1290	0.80	5/1748 (0.3%)
3	V1	0.29	0/1290	0.61	0/1748
3	V2	0.44	0/1290	0.83	6/1748 (0.3%)
3	V4	0.29	0/1290	0.61	0/1748
3	V5	0.41	0/1290	0.79	4/1748 (0.2%)
3	V6	0.44	0/1290	0.83	6/1748 (0.3%)
3	VA	0.41	0/1290	0.79	4/1748 (0.2%)
3	X1	0.27	0/1290	0.59	1/1748 (0.1%)
3	X2	0.43	0/1290	0.87	4/1748 (0.2%)
3	X4	0.27	0/1290	0.59	1/1748 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	X5	0.40	0/1290	0.80	4/1748 (0.2%)
3	X6	0.43	0/1290	0.87	4/1748 (0.2%)
3	XA	0.40	0/1290	0.79	4/1748 (0.2%)
3	Z1	0.26	0/1290	0.60	0/1748
3	Z2	0.39	0/1290	0.79	2/1748 (0.1%)
3	Z4	0.26	0/1290	0.60	0/1748
3	Z5	0.41	0/1290	0.87	7/1748 (0.4%)
3	Z6	0.39	0/1290	0.79	2/1748 (0.1%)
3	ZA	0.41	0/1290	0.87	7/1748 (0.4%)
4	N1	0.41	0/2311	0.83	10/3123 (0.3%)
4	N2	0.47	0/2311	0.79	3/3123 (0.1%)
4	N3	0.52	0/451	0.94	1/608 (0.2%)
4	N4	0.40	0/2311	0.83	10/3123 (0.3%)
4	N5	0.45	0/2311	0.80	1/3123 (0.0%)
4	N6	0.47	0/2311	0.79	3/3123 (0.1%)
4	N7	0.52	0/451	0.95	1/608 (0.2%)
4	NA	0.45	0/2311	0.80	1/3123 (0.0%)
5	A2	0.41	0/2081	0.81	9/2810 (0.3%)
5	A5	0.40	0/1985	0.82	7/2679 (0.3%)
5	A6	0.40	0/2081	0.78	9/2810 (0.3%)
5	AA	0.39	0/1985	0.82	6/2679 (0.2%)
6	A3	0.31	0/1147	0.99	8/1549 (0.5%)
6	A7	0.31	0/1147	0.97	7/1549 (0.5%)
7	A8	0.33	0/1219	0.88	4/1650 (0.2%)
7	A9	0.30	0/1219	0.78	3/1650 (0.2%)
7	C8	0.33	0/1219	0.88	4/1650 (0.2%)
7	C9	0.31	0/1219	0.79	3/1650 (0.2%)
7	E8	0.33	0/1219	0.88	4/1650 (0.2%)
7	E9	0.30	0/1219	0.78	3/1650 (0.2%)
7	G9	0.30	0/1219	0.78	3/1650 (0.2%)
7	H8	0.33	0/1219	0.88	4/1650 (0.2%)
7	I9	0.30	0/1219	0.78	3/1650 (0.2%)
7	J8	0.33	0/1219	0.88	4/1650 (0.2%)
7	K9	0.30	0/1219	0.78	3/1650 (0.2%)
7	L8	0.33	0/1219	0.88	4/1650 (0.2%)
7	N9	0.30	0/1219	0.78	3/1650 (0.2%)
7	O8	0.33	0/1219	0.87	4/1650 (0.2%)
7	P9	0.30	0/1219	0.78	3/1650 (0.2%)
7	Q8	0.33	0/1219	0.88	4/1650 (0.2%)
7	R9	0.30	0/1219	0.78	3/1650 (0.2%)
7	S8	0.33	0/1219	0.87	4/1650 (0.2%)
7	T9	0.30	0/1219	0.78	3/1650 (0.2%)
7	V8	0.33	0/1219	0.88	4/1650 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
7	X8	0.33	0/1219	0.88	4/1650 (0.2%)
7	X9	0.30	0/1219	0.78	3/1650 (0.2%)
7	Z8	0.33	0/1219	0.88	4/1650 (0.2%)
7	Z9	0.30	0/1219	0.78	3/1650 (0.2%)
7	b9	0.30	0/1219	0.78	3/1650 (0.2%)
7	c8	0.33	0/1219	0.88	4/1650 (0.2%)
7	d9	0.30	0/1219	0.79	3/1650 (0.2%)
7	e8	0.33	0/1219	0.88	4/1650 (0.2%)
7	f9	0.30	0/1219	0.78	3/1650 (0.2%)
7	g8	0.33	0/1219	0.87	4/1650 (0.2%)
7	i9	0.30	0/1219	0.78	3/1650 (0.2%)
7	j8	0.33	0/1219	0.88	4/1650 (0.2%)
7	k9	0.30	0/1219	0.78	3/1650 (0.2%)
7	l8	0.33	0/1219	0.88	4/1650 (0.2%)
7	n8	0.33	0/1219	0.88	4/1650 (0.2%)
7	o9	0.30	0/1219	0.78	3/1650 (0.2%)
7	p8	0.33	0/1219	0.86	4/1650 (0.2%)
7	q9	0.30	0/1219	0.78	3/1650 (0.2%)
7	r8	0.33	0/1219	0.88	4/1650 (0.2%)
7	s9	0.30	0/1219	0.78	3/1650 (0.2%)
7	t8	0.33	0/1219	0.88	4/1650 (0.2%)
7	u9	0.30	0/1219	0.78	3/1650 (0.2%)
7	w9	0.30	0/1219	0.78	3/1650 (0.2%)
7	y9	0.30	0/1219	0.78	3/1650 (0.2%)
8	B8	0.32	0/1216	0.89	6/1650 (0.4%)
8	B9	0.31	0/1216	0.55	0/1650
8	D8	0.32	0/1216	0.89	6/1650 (0.4%)
8	D9	0.31	0/1216	0.55	0/1650
8	F8	0.32	0/1216	0.89	6/1650 (0.4%)
8	F9	0.31	0/1216	0.55	0/1650
8	H9	0.31	0/1216	0.55	0/1650
8	I8	0.32	0/1216	0.89	6/1650 (0.4%)
8	J9	0.31	0/1216	0.55	0/1650
8	K8	0.32	0/1216	0.89	6/1650 (0.4%)
8	L9	0.31	0/1216	0.55	0/1650
8	M8	0.32	0/1216	0.89	6/1650 (0.4%)
8	M9	0.31	0/1216	0.55	0/1650
8	O9	0.31	0/1216	0.55	0/1650
8	P8	0.32	0/1207	0.89	6/1638 (0.4%)
8	R8	0.32	0/1216	0.89	6/1650 (0.4%)
8	S9	0.31	0/1216	0.55	0/1650
8	T8	0.32	0/1216	0.89	6/1650 (0.4%)
8	U9	0.31	0/1216	0.55	0/1650

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	W8	0.31	0/1216	0.89	6/1650 (0.4%)
8	W9	0.31	0/1216	0.55	0/1650
8	Y8	0.32	0/1216	0.89	6/1650 (0.4%)
8	Y9	0.31	0/1216	0.55	0/1650
8	a8	0.32	0/1216	0.89	6/1650 (0.4%)
8	a9	0.31	0/1216	0.55	0/1650
8	c9	0.31	0/1216	0.55	0/1650
8	d8	0.29	0/1216	0.75	3/1650 (0.2%)
8	e9	0.31	0/1216	0.55	0/1650
8	f8	0.33	0/1216	0.91	7/1650 (0.4%)
8	h8	0.32	0/1216	0.89	6/1650 (0.4%)
8	h9	0.31	0/1216	0.55	0/1650
8	j9	0.31	0/1216	0.55	0/1650
8	k8	0.32	0/1216	0.89	6/1650 (0.4%)
8	l9	0.31	0/1216	0.55	0/1650
8	m8	0.32	0/1216	0.89	6/1650 (0.4%)
8	n9	0.31	0/1216	0.55	0/1650
8	o8	0.31	0/1207	0.76	3/1638 (0.2%)
8	p9	0.31	0/1216	0.55	0/1650
8	q8	0.32	0/1207	0.89	6/1638 (0.4%)
8	r9	0.31	0/1216	0.55	0/1650
8	s8	0.32	0/1216	0.89	6/1650 (0.4%)
8	t9	0.31	0/1216	0.55	0/1650
8	u8	0.32	0/1216	0.89	6/1650 (0.4%)
8	v9	0.31	0/1216	0.55	0/1650
8	x9	0.31	0/1216	0.55	0/1650
8	z9	0.31	0/1216	0.55	0/1650
9	29	0.51	1/537 (0.2%)	0.97	4/721 (0.6%)
9	39	0.52	1/537 (0.2%)	0.98	4/721 (0.6%)
9	49	0.52	1/537 (0.2%)	1.09	7/721 (1.0%)
9	G8	0.47	1/537 (0.2%)	0.74	2/721 (0.3%)
9	N8	0.47	1/537 (0.2%)	0.75	2/721 (0.3%)
9	U8	0.47	1/537 (0.2%)	0.74	2/721 (0.3%)
9	b8	0.46	1/537 (0.2%)	0.68	0/721
9	i8	0.41	1/537 (0.2%)	0.61	0/721
10	09	0.44	3/8528 (0.0%)	0.72	7/11537 (0.1%)
10	19	0.46	2/8475 (0.0%)	0.77	7/11467 (0.1%)
11	Q9	0.46	0/1323	0.70	0/1795
11	g9	0.45	0/1331	0.72	1/1805 (0.1%)
12	V9	0.39	0/1265	0.79	0/1713
12	m9	0.39	0/1265	0.79	0/1713
All	All	0.35	13/377986 (0.0%)	0.71	642/512380 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A1	0	2
1	A4	0	2
4	N1	0	1
4	N2	0	1
4	N4	0	1
4	N5	0	2
4	N6	0	1
4	NA	0	2
5	A2	0	1
5	A6	0	1
10	09	0	4
10	19	0	5
All	All	0	23

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	19	627	ASN	CA-CB	7.05	1.65	1.53
9	39	41	GLN	CD-NE2	6.29	1.46	1.33
9	49	41	GLN	CD-NE2	6.29	1.46	1.33
9	29	41	GLN	CD-NE2	6.26	1.46	1.33
10	19	282	THR	CB-CG2	-6.01	1.32	1.52
10	09	760	TYR	CD1-CE1	-5.65	1.21	1.38
10	09	282	THR	CB-CG2	-5.61	1.34	1.52
9	b8	45	GLN	CD-NE2	5.58	1.45	1.33
9	G8	45	GLN	CD-NE2	5.57	1.45	1.33
9	i8	45	GLN	CD-NE2	5.56	1.45	1.33
9	N8	45	GLN	CD-NE2	5.54	1.44	1.33
9	U8	45	GLN	CD-NE2	5.51	1.44	1.33
10	09	42	GLU	CG-CD	-5.08	1.39	1.52

All (642) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	Q8	83	ARG	NH1-CZ-NH2	-16.34	98.06	119.30
7	A8	83	ARG	NH1-CZ-NH2	-16.33	98.07	119.30
7	L8	83	ARG	NH1-CZ-NH2	-16.32	98.08	119.30
7	e8	83	ARG	NH1-CZ-NH2	-16.32	98.08	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	r8	83	ARG	NH1-CZ-NH2	-16.32	98.09	119.30
7	Z8	83	ARG	NH1-CZ-NH2	-16.32	98.09	119.30
7	E8	83	ARG	NH1-CZ-NH2	-16.31	98.09	119.30
7	H8	83	ARG	NH1-CZ-NH2	-16.31	98.10	119.30
7	V8	83	ARG	NH1-CZ-NH2	-16.31	98.10	119.30
7	S8	83	ARG	NH1-CZ-NH2	-16.30	98.11	119.30
7	n8	83	ARG	NH1-CZ-NH2	-16.30	98.11	119.30
7	X8	83	ARG	NH1-CZ-NH2	-16.29	98.12	119.30
7	C8	83	ARG	NH1-CZ-NH2	-16.29	98.13	119.30
7	p8	83	ARG	NH1-CZ-NH2	-16.29	98.13	119.30
7	g8	83	ARG	NH1-CZ-NH2	-16.28	98.13	119.30
7	j8	83	ARG	NH1-CZ-NH2	-16.28	98.13	119.30
7	J8	83	ARG	NH1-CZ-NH2	-16.28	98.13	119.30
7	c8	83	ARG	NH1-CZ-NH2	-16.28	98.14	119.30
7	t8	83	ARG	NH1-CZ-NH2	-16.28	98.14	119.30
7	l8	83	ARG	NH1-CZ-NH2	-16.27	98.15	119.30
7	O8	83	ARG	NH1-CZ-NH2	-16.27	98.15	119.30
7	u9	83	ARG	NH1-CZ-NH2	-15.91	98.62	119.30
7	K9	83	ARG	NH1-CZ-NH2	-15.90	98.63	119.30
7	b9	83	ARG	NH1-CZ-NH2	-15.90	98.63	119.30
7	C9	83	ARG	NH1-CZ-NH2	-15.90	98.63	119.30
7	Z9	83	ARG	NH1-CZ-NH2	-15.89	98.64	119.30
7	T9	83	ARG	NH1-CZ-NH2	-15.89	98.64	119.30
7	N9	83	ARG	NH1-CZ-NH2	-15.88	98.65	119.30
7	P9	83	ARG	NH1-CZ-NH2	-15.88	98.65	119.30
7	i9	83	ARG	NH1-CZ-NH2	-15.88	98.66	119.30
7	d9	83	ARG	NH1-CZ-NH2	-15.87	98.66	119.30
7	k9	83	ARG	NH1-CZ-NH2	-15.87	98.67	119.30
7	s9	83	ARG	NH1-CZ-NH2	-15.87	98.67	119.30
7	R9	83	ARG	NH1-CZ-NH2	-15.86	98.68	119.30
7	y9	83	ARG	NH1-CZ-NH2	-15.86	98.68	119.30
7	o9	83	ARG	NH1-CZ-NH2	-15.86	98.69	119.30
7	A9	83	ARG	NH1-CZ-NH2	-15.85	98.69	119.30
7	G9	83	ARG	NH1-CZ-NH2	-15.85	98.70	119.30
7	f9	83	ARG	NH1-CZ-NH2	-15.85	98.70	119.30
7	I9	83	ARG	NH1-CZ-NH2	-15.84	98.71	119.30
7	q9	83	ARG	NH1-CZ-NH2	-15.84	98.71	119.30
7	E9	83	ARG	NH1-CZ-NH2	-15.84	98.71	119.30
7	w9	83	ARG	NH1-CZ-NH2	-15.83	98.72	119.30
7	X9	83	ARG	NH1-CZ-NH2	-15.83	98.73	119.30
3	P2	145	ASP	CA-C-N	14.76	138.75	120.89
3	P2	145	ASP	C-N-CA	14.76	138.75	120.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	P6	145	ASP	CA-C-N	14.76	138.75	120.89
3	P6	145	ASP	C-N-CA	14.76	138.75	120.89
7	L8	83	ARG	NE-CZ-NH2	13.86	131.68	119.20
7	Q8	83	ARG	NE-CZ-NH2	13.86	131.68	119.20
7	n8	83	ARG	NE-CZ-NH2	13.85	131.66	119.20
7	r8	83	ARG	NE-CZ-NH2	13.85	131.66	119.20
7	t8	83	ARG	NE-CZ-NH2	13.84	131.65	119.20
7	A8	83	ARG	NE-CZ-NH2	13.83	131.65	119.20
7	e8	83	ARG	NE-CZ-NH2	13.83	131.65	119.20
7	Z8	83	ARG	NE-CZ-NH2	13.83	131.65	119.20
7	V8	83	ARG	NE-CZ-NH2	13.82	131.64	119.20
7	E8	83	ARG	NE-CZ-NH2	13.81	131.63	119.20
7	S8	83	ARG	NE-CZ-NH2	13.81	131.63	119.20
7	g8	83	ARG	NE-CZ-NH2	13.79	131.61	119.20
7	p8	83	ARG	NE-CZ-NH2	13.79	131.61	119.20
7	c8	83	ARG	NE-CZ-NH2	13.79	131.61	119.20
7	l8	83	ARG	NE-CZ-NH2	13.78	131.60	119.20
7	X8	83	ARG	NE-CZ-NH2	13.77	131.60	119.20
7	H8	83	ARG	NE-CZ-NH2	13.77	131.59	119.20
7	C8	83	ARG	NE-CZ-NH2	13.77	131.59	119.20
8	T8	77	ARG	NH1-CZ-NH2	-13.77	101.40	119.30
8	f8	77	ARG	NH1-CZ-NH2	-13.77	101.40	119.30
7	O8	83	ARG	NE-CZ-NH2	13.76	131.59	119.20
8	B8	77	ARG	NH1-CZ-NH2	-13.75	101.42	119.30
7	J8	83	ARG	NE-CZ-NH2	13.75	131.58	119.20
8	P8	77	ARG	NH1-CZ-NH2	-13.75	101.42	119.30
8	h8	77	ARG	NH1-CZ-NH2	-13.75	101.42	119.30
8	a8	77	ARG	NH1-CZ-NH2	-13.75	101.43	119.30
7	j8	83	ARG	NE-CZ-NH2	13.75	131.57	119.20
8	K8	77	ARG	NH1-CZ-NH2	-13.74	101.44	119.30
8	R8	77	ARG	NH1-CZ-NH2	-13.73	101.45	119.30
8	m8	77	ARG	NH1-CZ-NH2	-13.73	101.45	119.30
8	I8	77	ARG	NH1-CZ-NH2	-13.73	101.45	119.30
8	s8	77	ARG	NH1-CZ-NH2	-13.73	101.45	119.30
8	D8	77	ARG	NH1-CZ-NH2	-13.72	101.46	119.30
8	M8	77	ARG	NH1-CZ-NH2	-13.72	101.46	119.30
8	k8	77	ARG	NH1-CZ-NH2	-13.72	101.46	119.30
8	W8	77	ARG	NH1-CZ-NH2	-13.72	101.46	119.30
8	F8	77	ARG	NH1-CZ-NH2	-13.71	101.47	119.30
8	Y8	77	ARG	NH1-CZ-NH2	-13.71	101.48	119.30
8	d8	77	ARG	NH1-CZ-NH2	-13.71	101.48	119.30
8	q8	77	ARG	NH1-CZ-NH2	-13.71	101.48	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	u8	77	ARG	NH1-CZ-NH2	-13.70	101.49	119.30
8	W8	84	ARG	NH1-CZ-NH2	-13.64	101.56	119.30
8	F8	84	ARG	NH1-CZ-NH2	-13.63	101.58	119.30
8	M8	84	ARG	NH1-CZ-NH2	-13.63	101.59	119.30
8	m8	84	ARG	NH1-CZ-NH2	-13.63	101.59	119.30
8	D8	84	ARG	NH1-CZ-NH2	-13.62	101.60	119.30
8	u8	84	ARG	NH1-CZ-NH2	-13.62	101.59	119.30
8	a8	84	ARG	NH1-CZ-NH2	-13.62	101.60	119.30
8	B8	84	ARG	NH1-CZ-NH2	-13.61	101.61	119.30
8	q8	84	ARG	NH1-CZ-NH2	-13.61	101.61	119.30
8	o8	84	ARG	NH1-CZ-NH2	-13.61	101.61	119.30
8	s8	84	ARG	NH1-CZ-NH2	-13.61	101.61	119.30
8	K8	84	ARG	NH1-CZ-NH2	-13.60	101.62	119.30
8	h8	84	ARG	NH1-CZ-NH2	-13.60	101.62	119.30
8	I8	84	ARG	NH1-CZ-NH2	-13.60	101.63	119.30
8	P8	84	ARG	NH1-CZ-NH2	-13.59	101.63	119.30
8	f8	84	ARG	NH1-CZ-NH2	-13.59	101.63	119.30
8	Y8	84	ARG	NH1-CZ-NH2	-13.59	101.64	119.30
8	k8	84	ARG	NH1-CZ-NH2	-13.59	101.64	119.30
7	Z9	83	ARG	NE-CZ-NH2	13.58	131.43	119.20
7	K9	83	ARG	NE-CZ-NH2	13.57	131.41	119.20
8	R8	84	ARG	NH1-CZ-NH2	-13.56	101.67	119.30
8	T8	84	ARG	NH1-CZ-NH2	-13.56	101.67	119.30
7	i9	83	ARG	NE-CZ-NH2	13.56	131.40	119.20
7	G9	83	ARG	NE-CZ-NH2	13.56	131.40	119.20
7	N9	83	ARG	NE-CZ-NH2	13.56	131.40	119.20
7	P9	83	ARG	NE-CZ-NH2	13.54	131.38	119.20
7	R9	83	ARG	NE-CZ-NH2	13.54	131.38	119.20
7	y9	83	ARG	NE-CZ-NH2	13.54	131.38	119.20
7	u9	83	ARG	NE-CZ-NH2	13.53	131.38	119.20
7	A9	83	ARG	NE-CZ-NH2	13.52	131.37	119.20
7	I9	83	ARG	NE-CZ-NH2	13.52	131.37	119.20
7	s9	83	ARG	NE-CZ-NH2	13.52	131.37	119.20
7	d9	83	ARG	NE-CZ-NH2	13.52	131.37	119.20
7	b9	83	ARG	NE-CZ-NH2	13.51	131.36	119.20
7	C9	83	ARG	NE-CZ-NH2	13.51	131.36	119.20
7	T9	83	ARG	NE-CZ-NH2	13.50	131.35	119.20
7	f9	83	ARG	NE-CZ-NH2	13.50	131.35	119.20
7	k9	83	ARG	NE-CZ-NH2	13.50	131.35	119.20
7	o9	83	ARG	NE-CZ-NH2	13.49	131.34	119.20
7	q9	83	ARG	NE-CZ-NH2	13.49	131.34	119.20
7	w9	83	ARG	NE-CZ-NH2	13.48	131.33	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	X9	83	ARG	NE-CZ-NH2	13.46	131.31	119.20
7	E9	83	ARG	NE-CZ-NH2	13.45	131.31	119.20
3	M2	145	ASP	CA-C-N	13.08	136.72	120.89
3	M2	145	ASP	C-N-CA	13.08	136.72	120.89
3	M7	145	ASP	CA-C-N	13.08	136.71	120.89
3	M7	145	ASP	C-N-CA	13.08	136.71	120.89
3	M6	145	ASP	CA-C-N	13.07	136.71	120.89
3	M6	145	ASP	C-N-CA	13.07	136.71	120.89
3	M3	145	ASP	CA-C-N	13.06	136.69	120.89
3	M3	145	ASP	C-N-CA	13.06	136.69	120.89
8	h8	77	ARG	NE-CZ-NH2	12.32	130.29	119.20
8	K8	77	ARG	NE-CZ-NH2	12.32	130.28	119.20
8	W8	77	ARG	NE-CZ-NH2	12.30	130.27	119.20
8	T8	77	ARG	NE-CZ-NH2	12.28	130.26	119.20
8	D8	77	ARG	NE-CZ-NH2	12.28	130.25	119.20
8	B8	77	ARG	NE-CZ-NH2	12.27	130.24	119.20
8	P8	77	ARG	NE-CZ-NH2	12.27	130.24	119.20
8	I8	77	ARG	NE-CZ-NH2	12.26	130.24	119.20
8	Y8	77	ARG	NE-CZ-NH2	12.26	130.23	119.20
8	F8	77	ARG	NE-CZ-NH2	12.25	130.23	119.20
8	M8	77	ARG	NE-CZ-NH2	12.25	130.22	119.20
8	m8	77	ARG	NE-CZ-NH2	12.24	130.22	119.20
8	a8	77	ARG	NE-CZ-NH2	12.24	130.21	119.20
8	f8	77	ARG	NE-CZ-NH2	12.24	130.21	119.20
8	k8	77	ARG	NE-CZ-NH2	12.23	130.21	119.20
8	d8	77	ARG	NE-CZ-NH2	12.22	130.20	119.20
8	s8	77	ARG	NE-CZ-NH2	12.21	130.19	119.20
8	R8	77	ARG	NE-CZ-NH2	12.21	130.19	119.20
8	u8	77	ARG	NE-CZ-NH2	12.20	130.18	119.20
8	q8	77	ARG	NE-CZ-NH2	12.19	130.17	119.20
3	X6	158	ILE	N-CA-C	11.99	122.83	110.72
3	X2	158	ILE	N-CA-C	11.95	122.79	110.72
8	W8	84	ARG	NE-CZ-NH2	11.34	129.41	119.20
8	B8	84	ARG	NE-CZ-NH2	11.33	129.40	119.20
8	m8	84	ARG	NE-CZ-NH2	11.32	129.39	119.20
8	I8	84	ARG	NE-CZ-NH2	11.31	129.38	119.20
8	F8	84	ARG	NE-CZ-NH2	11.30	129.37	119.20
8	u8	84	ARG	NE-CZ-NH2	11.30	129.37	119.20
8	h8	84	ARG	NE-CZ-NH2	11.29	129.37	119.20
8	s8	84	ARG	NE-CZ-NH2	11.29	129.36	119.20
8	D8	84	ARG	NE-CZ-NH2	11.29	129.36	119.20
8	K8	84	ARG	NE-CZ-NH2	11.28	129.35	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	k8	84	ARG	NE-CZ-NH2	11.28	129.35	119.20
8	M8	84	ARG	NE-CZ-NH2	11.28	129.35	119.20
8	T8	84	ARG	NE-CZ-NH2	11.27	129.34	119.20
8	f8	84	ARG	NE-CZ-NH2	11.26	129.34	119.20
8	a8	84	ARG	NE-CZ-NH2	11.26	129.33	119.20
8	q8	84	ARG	NE-CZ-NH2	11.26	129.33	119.20
8	Y8	84	ARG	NE-CZ-NH2	11.24	129.32	119.20
8	P8	84	ARG	NE-CZ-NH2	11.23	129.31	119.20
8	R8	84	ARG	NE-CZ-NH2	11.23	129.30	119.20
8	o8	84	ARG	NE-CZ-NH2	11.23	129.31	119.20
3	Z2	158	ILE	N-CA-C	10.54	121.36	110.72
3	Z6	158	ILE	N-CA-C	10.54	121.36	110.72
3	Z5	145	ASP	CA-C-N	10.48	130.68	119.05
3	Z5	145	ASP	C-N-CA	10.48	130.68	119.05
3	ZA	145	ASP	CA-C-N	10.48	130.68	119.05
3	ZA	145	ASP	C-N-CA	10.48	130.68	119.05
10	09	13	ARG	CA-C-N	10.00	130.15	119.05
10	09	13	ARG	C-N-CA	10.00	130.15	119.05
3	T2	158	ILE	N-CA-C	10.00	120.82	110.72
3	T6	158	ILE	N-CA-C	9.98	120.80	110.72
4	N4	157	GLN	N-CA-C	-9.15	99.58	111.02
4	N1	157	GLN	N-CA-C	-9.11	99.63	111.02
5	A2	195	ARG	NE-CZ-NH2	-8.51	111.54	119.20
5	A6	195	ARG	NE-CZ-NH2	-8.50	111.55	119.20
7	b9	83	ARG	NE-CZ-NH1	8.49	130.00	121.50
7	C9	83	ARG	NE-CZ-NH1	8.49	129.99	121.50
7	T9	83	ARG	NE-CZ-NH1	8.49	129.99	121.50
7	u9	83	ARG	NE-CZ-NH1	8.49	129.99	121.50
7	k9	83	ARG	NE-CZ-NH1	8.47	129.97	121.50
7	E9	83	ARG	NE-CZ-NH1	8.47	129.97	121.50
7	d9	83	ARG	NE-CZ-NH1	8.46	129.96	121.50
7	o9	83	ARG	NE-CZ-NH1	8.46	129.96	121.50
7	P9	83	ARG	NE-CZ-NH1	8.45	129.95	121.50
7	s9	83	ARG	NE-CZ-NH1	8.45	129.95	121.50
7	K9	83	ARG	NE-CZ-NH1	8.45	129.95	121.50
7	X9	83	ARG	NE-CZ-NH1	8.45	129.95	121.50
7	f9	83	ARG	NE-CZ-NH1	8.44	129.94	121.50
7	q9	83	ARG	NE-CZ-NH1	8.44	129.94	121.50
7	N9	83	ARG	NE-CZ-NH1	8.43	129.93	121.50
7	w9	83	ARG	NE-CZ-NH1	8.43	129.93	121.50
7	i9	83	ARG	NE-CZ-NH1	8.43	129.93	121.50
7	Z9	83	ARG	NE-CZ-NH1	8.42	129.92	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	y9	83	ARG	NE-CZ-NH1	8.42	129.92	121.50
7	A9	83	ARG	NE-CZ-NH1	8.42	129.92	121.50
7	R9	83	ARG	NE-CZ-NH1	8.42	129.92	121.50
7	I9	83	ARG	NE-CZ-NH1	8.41	129.91	121.50
7	G9	83	ARG	NE-CZ-NH1	8.39	129.89	121.50
7	H8	83	ARG	NE-CZ-NH1	8.22	129.72	121.50
7	j8	83	ARG	NE-CZ-NH1	8.22	129.72	121.50
7	C8	83	ARG	NE-CZ-NH1	8.21	129.71	121.50
7	J8	83	ARG	NE-CZ-NH1	8.21	129.71	121.50
7	E8	83	ARG	NE-CZ-NH1	8.20	129.70	121.50
7	A8	83	ARG	NE-CZ-NH1	8.20	129.70	121.50
7	X8	83	ARG	NE-CZ-NH1	8.20	129.70	121.50
7	Z8	83	ARG	NE-CZ-NH1	8.20	129.70	121.50
7	V8	83	ARG	NE-CZ-NH1	8.20	129.69	121.50
7	p8	83	ARG	NE-CZ-NH1	8.19	129.69	121.50
7	e8	83	ARG	NE-CZ-NH1	8.18	129.68	121.50
7	l8	83	ARG	NE-CZ-NH1	8.18	129.68	121.50
7	O8	83	ARG	NE-CZ-NH1	8.18	129.68	121.50
7	Q8	83	ARG	NE-CZ-NH1	8.18	129.68	121.50
7	S8	83	ARG	NE-CZ-NH1	8.17	129.67	121.50
7	c8	83	ARG	NE-CZ-NH1	8.17	129.67	121.50
7	L8	83	ARG	NE-CZ-NH1	8.17	129.67	121.50
7	r8	83	ARG	NE-CZ-NH1	8.17	129.67	121.50
7	g8	83	ARG	NE-CZ-NH1	8.17	129.67	121.50
7	n8	83	ARG	NE-CZ-NH1	8.15	129.65	121.50
7	t8	83	ARG	NE-CZ-NH1	8.13	129.63	121.50
9	49	11	VAL	CA-C-N	7.80	127.71	119.05
9	49	11	VAL	C-N-CA	7.80	127.71	119.05
9	49	15	SER	N-CA-C	7.80	119.78	111.28
4	NA	22	GLU	N-CA-C	7.79	122.21	112.24
3	V6	158	ILE	N-CA-C	7.77	117.88	110.42
3	V2	158	ILE	N-CA-C	7.76	117.87	110.42
4	N5	22	GLU	N-CA-C	7.72	122.12	112.24
5	A2	55	VAL	N-CA-C	7.69	118.49	110.72
8	f8	108	ARG	N-CA-C	7.65	119.70	111.36
11	g9	132	GLN	CA-CB-CG	-7.65	98.81	114.10
5	A6	55	VAL	N-CA-C	7.64	118.44	110.72
8	o8	84	ARG	NE-CZ-NH1	7.56	129.06	121.50
8	a8	84	ARG	NE-CZ-NH1	7.55	129.05	121.50
8	M8	84	ARG	NE-CZ-NH1	7.55	129.05	121.50
8	P8	84	ARG	NE-CZ-NH1	7.54	129.04	121.50
8	q8	84	ARG	NE-CZ-NH1	7.54	129.04	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	D8	84	ARG	NE-CZ-NH1	7.53	129.03	121.50
8	Y8	84	ARG	NE-CZ-NH1	7.53	129.03	121.50
8	F8	84	ARG	NE-CZ-NH1	7.52	129.02	121.50
8	u8	84	ARG	NE-CZ-NH1	7.52	129.02	121.50
8	f8	84	ARG	NE-CZ-NH1	7.51	129.01	121.50
8	W8	84	ARG	NE-CZ-NH1	7.51	129.01	121.50
8	s8	84	ARG	NE-CZ-NH1	7.51	129.01	121.50
8	K8	84	ARG	NE-CZ-NH1	7.50	129.00	121.50
5	AA	60	GLU	N-CA-C	7.50	119.46	111.28
8	R8	84	ARG	NE-CZ-NH1	7.50	129.00	121.50
8	m8	84	ARG	NE-CZ-NH1	7.50	129.00	121.50
8	h8	84	ARG	NE-CZ-NH1	7.49	128.99	121.50
8	k8	84	ARG	NE-CZ-NH1	7.49	128.99	121.50
8	B8	84	ARG	NE-CZ-NH1	7.48	128.98	121.50
5	A5	60	GLU	N-CA-C	7.48	119.43	111.28
8	I8	84	ARG	NE-CZ-NH1	7.47	128.97	121.50
8	T8	84	ARG	NE-CZ-NH1	7.46	128.96	121.50
3	R6	158	ILE	N-CA-C	7.41	118.18	110.62
3	R2	158	ILE	N-CA-C	7.37	118.14	110.62
1	A1	6	LEU	CA-CB-CG	7.36	142.06	116.30
1	A4	6	LEU	CA-CB-CG	7.35	142.04	116.30
2	S2	26	GLN	CA-C-N	7.34	130.11	120.28
2	S2	26	GLN	C-N-CA	7.34	130.11	120.28
2	S6	26	GLN	CA-C-N	7.28	130.04	120.28
2	S6	26	GLN	C-N-CA	7.28	130.04	120.28
3	T2	145	ASP	CA-C-N	7.26	129.82	121.04
3	T2	145	ASP	C-N-CA	7.26	129.82	121.04
3	T6	145	ASP	CA-C-N	7.26	129.82	121.04
3	T6	145	ASP	C-N-CA	7.26	129.82	121.04
2	Q6	72	GLY	CA-C-N	7.06	126.88	119.05
2	Q6	72	GLY	C-N-CA	7.06	126.88	119.05
2	L2	72	GLY	CA-C-N	7.04	126.87	119.05
2	L2	72	GLY	C-N-CA	7.04	126.87	119.05
2	Q2	72	GLY	CA-C-N	7.04	126.86	119.05
2	Q2	72	GLY	C-N-CA	7.04	126.86	119.05
2	L7	72	GLY	CA-C-N	7.01	126.83	119.05
2	L7	72	GLY	C-N-CA	7.01	126.83	119.05
2	L3	72	GLY	CA-C-N	7.01	126.83	119.05
2	L3	72	GLY	C-N-CA	7.01	126.83	119.05
1	A4	214	PRO	N-CA-CB	6.97	110.67	103.00
2	L6	72	GLY	CA-C-N	6.96	126.77	119.05
2	L6	72	GLY	C-N-CA	6.96	126.77	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A1	214	PRO	N-CA-CB	6.95	110.65	103.00
6	A7	53	ILE	N-CA-C	6.94	117.73	110.72
4	N3	263	TYR	N-CA-C	6.93	118.83	111.28
4	N7	263	TYR	N-CA-C	6.92	118.83	111.28
10	09	16	LEU	N-CA-C	6.92	118.47	111.07
9	49	14	LEU	N-CA-C	6.91	118.81	111.28
6	A3	53	ILE	N-CA-C	6.90	117.69	110.72
4	N2	263	TYR	N-CA-C	6.89	118.79	111.28
4	N6	263	TYR	N-CA-C	6.89	118.79	111.28
4	N6	11	GLY	N-CA-C	-6.87	105.84	115.32
4	N2	11	GLY	N-CA-C	-6.87	105.85	115.32
5	A2	165	LYS	N-CA-C	6.86	121.00	111.74
5	A6	165	LYS	N-CA-C	6.85	120.99	111.74
9	G8	24	GLN	CA-CB-CG	6.81	127.73	114.10
3	RA	23	GLU	CA-CB-CG	6.80	127.71	114.10
3	EA	23	GLU	CA-CB-CG	6.80	127.69	114.10
3	X5	23	GLU	CA-CB-CG	6.80	127.69	114.10
9	N8	24	GLN	CA-CB-CG	6.80	127.69	114.10
7	Q8	144	GLU	CA-CB-CG	6.80	127.69	114.10
3	C5	23	GLU	CA-CB-CG	6.79	127.68	114.10
9	U8	24	GLN	CA-CB-CG	6.79	127.68	114.10
8	f8	77	ARG	NE-CZ-NH1	6.79	128.29	121.50
3	ZA	23	GLU	CA-CB-CG	6.79	127.68	114.10
7	r8	144	GLU	CA-CB-CG	6.79	127.68	114.10
7	p8	144	GLU	CA-CB-CG	6.79	127.67	114.10
7	t8	144	GLU	CA-CB-CG	6.79	127.67	114.10
7	A8	144	GLU	CA-CB-CG	6.79	127.67	114.10
7	S8	144	GLU	CA-CB-CG	6.79	127.67	114.10
7	j8	144	GLU	CA-CB-CG	6.79	127.67	114.10
3	CA	23	GLU	CA-CB-CG	6.79	127.67	114.10
7	H8	144	GLU	CA-CB-CG	6.78	127.67	114.10
7	L8	144	GLU	CA-CB-CG	6.78	127.67	114.10
7	Z8	144	GLU	CA-CB-CG	6.78	127.66	114.10
7	e8	144	GLU	CA-CB-CG	6.78	127.66	114.10
7	O8	144	GLU	CA-CB-CG	6.78	127.66	114.10
3	R5	23	GLU	CA-CB-CG	6.78	127.66	114.10
7	E8	144	GLU	CA-CB-CG	6.78	127.66	114.10
7	J8	144	GLU	CA-CB-CG	6.78	127.65	114.10
7	V8	144	GLU	CA-CB-CG	6.78	127.66	114.10
7	g8	144	GLU	CA-CB-CG	6.78	127.66	114.10
7	n8	144	GLU	CA-CB-CG	6.78	127.66	114.10
3	KA	23	GLU	CA-CB-CG	6.78	127.66	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	VA	23	GLU	CA-CB-CG	6.78	127.65	114.10
8	R8	77	ARG	NE-CZ-NH1	6.77	128.27	121.50
3	XA	23	GLU	CA-CB-CG	6.77	127.64	114.10
7	X8	144	GLU	CA-CB-CG	6.77	127.64	114.10
8	a8	77	ARG	NE-CZ-NH1	6.77	128.27	121.50
7	c8	144	GLU	CA-CB-CG	6.77	127.64	114.10
3	V5	23	GLU	CA-CB-CG	6.77	127.64	114.10
3	Z5	23	GLU	CA-CB-CG	6.77	127.64	114.10
7	C8	144	GLU	CA-CB-CG	6.77	127.63	114.10
3	E5	23	GLU	CA-CB-CG	6.76	127.63	114.10
7	l8	144	GLU	CA-CB-CG	6.76	127.63	114.10
8	s8	77	ARG	NE-CZ-NH1	6.76	128.26	121.50
8	T8	77	ARG	NE-CZ-NH1	6.76	128.26	121.50
3	PA	23	GLU	CA-CB-CG	6.75	127.61	114.10
3	K5	23	GLU	CA-CB-CG	6.75	127.61	114.10
3	T5	23	GLU	CA-CB-CG	6.75	127.61	114.10
8	q8	77	ARG	NE-CZ-NH1	6.75	128.25	121.50
3	P5	23	GLU	CA-CB-CG	6.75	127.60	114.10
8	P8	77	ARG	NE-CZ-NH1	6.75	128.25	121.50
8	k8	77	ARG	NE-CZ-NH1	6.75	128.25	121.50
8	u8	77	ARG	NE-CZ-NH1	6.75	128.25	121.50
3	IA	23	GLU	CA-CB-CG	6.75	127.59	114.10
3	TA	23	GLU	CA-CB-CG	6.75	127.59	114.10
3	G5	23	GLU	CA-CB-CG	6.74	127.58	114.10
8	B8	77	ARG	NE-CZ-NH1	6.74	128.24	121.50
3	M5	23	GLU	CA-CB-CG	6.74	127.57	114.10
8	m8	77	ARG	NE-CZ-NH1	6.74	128.24	121.50
8	M8	77	ARG	NE-CZ-NH1	6.73	128.23	121.50
3	I5	23	GLU	CA-CB-CG	6.73	127.56	114.10
8	d8	77	ARG	NE-CZ-NH1	6.73	128.23	121.50
3	GA	23	GLU	CA-CB-CG	6.73	127.56	114.10
3	MA	23	GLU	CA-CB-CG	6.73	127.55	114.10
3	I5	87	MET	CB-CG-SD	6.72	132.86	112.70
8	I8	77	ARG	NE-CZ-NH1	6.72	128.22	121.50
3	C5	87	MET	CB-CG-SD	6.72	132.85	112.70
3	XA	87	MET	CB-CG-SD	6.72	132.85	112.70
3	K5	87	MET	CB-CG-SD	6.71	132.84	112.70
3	IA	87	MET	CB-CG-SD	6.71	132.84	112.70
8	D8	77	ARG	NE-CZ-NH1	6.71	128.21	121.50
3	KA	87	MET	CB-CG-SD	6.71	132.83	112.70
3	R5	87	MET	CB-CG-SD	6.71	132.82	112.70
8	F8	77	ARG	NE-CZ-NH1	6.71	128.21	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	PA	87	MET	CB-CG-SD	6.71	132.82	112.70
3	TA	87	MET	CB-CG-SD	6.71	132.82	112.70
3	V5	87	MET	CB-CG-SD	6.71	132.81	112.70
3	Z5	87	MET	CB-CG-SD	6.71	132.81	112.70
3	M5	87	MET	CB-CG-SD	6.70	132.81	112.70
3	T5	87	MET	CB-CG-SD	6.70	132.80	112.70
3	CA	87	MET	CB-CG-SD	6.70	132.80	112.70
3	GA	87	MET	CB-CG-SD	6.70	132.80	112.70
3	MA	87	MET	CB-CG-SD	6.70	132.80	112.70
3	VA	87	MET	CB-CG-SD	6.70	132.79	112.70
3	RA	87	MET	CB-CG-SD	6.70	132.79	112.70
8	h8	77	ARG	NE-CZ-NH1	6.70	128.20	121.50
8	Y8	77	ARG	NE-CZ-NH1	6.69	128.19	121.50
3	P5	87	MET	CB-CG-SD	6.69	132.78	112.70
3	X5	87	MET	CB-CG-SD	6.69	132.78	112.70
3	ZA	87	MET	CB-CG-SD	6.69	132.78	112.70
3	G5	87	MET	CB-CG-SD	6.69	132.76	112.70
3	EA	87	MET	CB-CG-SD	6.68	132.75	112.70
3	E5	87	MET	CB-CG-SD	6.68	132.75	112.70
8	K8	77	ARG	NE-CZ-NH1	6.68	128.18	121.50
8	W8	77	ARG	NE-CZ-NH1	6.68	128.18	121.50
9	39	41	GLN	CA-CB-CG	6.65	127.41	114.10
9	29	41	GLN	CA-CB-CG	6.65	127.40	114.10
6	A7	96	VAL	N-CA-C	6.65	117.28	111.56
9	49	41	GLN	CA-CB-CG	6.63	127.37	114.10
6	A3	96	VAL	N-CA-C	6.61	117.24	111.56
10	19	298	ARG	CA-CB-CG	6.58	127.27	114.10
9	39	41	GLN	CG-CD-NE2	6.58	126.27	116.40
9	49	41	GLN	CG-CD-NE2	6.57	126.26	116.40
9	29	41	GLN	CG-CD-NE2	6.56	126.24	116.40
10	09	528	ILE	N-CA-C	6.53	117.28	110.62
3	IA	144	ASN	N-CA-C	6.44	118.30	111.28
3	I5	144	ASN	N-CA-C	6.40	118.26	111.28
3	C6	110	CYS	N-CA-C	6.40	118.25	111.28
10	19	627	ASN	N-CA-CB	6.39	120.30	110.46
3	C3	110	CYS	N-CA-C	6.38	118.23	111.28
5	A5	55	VAL	N-CA-C	6.37	117.15	110.72
3	C2	110	CYS	N-CA-C	6.37	118.22	111.28
3	C7	110	CYS	N-CA-C	6.35	118.20	111.28
5	AA	55	VAL	N-CA-C	6.31	117.10	110.72
5	A2	226	VAL	N-CA-C	6.16	116.94	110.72
9	U8	24	GLN	CB-CG-CD	6.12	123.00	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	G8	24	GLN	CB-CG-CD	6.11	122.98	112.60
9	N8	24	GLN	CB-CG-CD	6.11	122.98	112.60
6	A7	62	SER	N-CA-C	6.03	117.85	111.28
10	09	298	ARG	CA-CB-CG	6.02	126.15	114.10
6	A3	62	SER	N-CA-C	6.02	117.84	111.28
3	K5	88	GLU	CA-CB-CG	6.01	126.12	114.10
3	PA	88	GLU	CA-CB-CG	6.01	126.11	114.10
3	KA	88	GLU	CA-CB-CG	5.99	126.09	114.10
3	VA	88	GLU	CA-CB-CG	5.98	126.06	114.10
3	R5	88	GLU	CA-CB-CG	5.98	126.06	114.10
3	E5	88	GLU	CA-CB-CG	5.98	126.05	114.10
3	V5	88	GLU	CA-CB-CG	5.98	126.06	114.10
3	CA	88	GLU	CA-CB-CG	5.97	126.05	114.10
3	I5	88	GLU	CA-CB-CG	5.97	126.05	114.10
3	EA	88	GLU	CA-CB-CG	5.97	126.04	114.10
3	IA	88	GLU	CA-CB-CG	5.97	126.04	114.10
3	ZA	88	GLU	CA-CB-CG	5.97	126.04	114.10
3	M5	88	GLU	CA-CB-CG	5.97	126.04	114.10
3	P5	88	GLU	CA-CB-CG	5.97	126.03	114.10
3	MA	88	GLU	CA-CB-CG	5.97	126.03	114.10
3	XA	88	GLU	CA-CB-CG	5.97	126.03	114.10
3	T5	88	GLU	CA-CB-CG	5.96	126.03	114.10
3	X5	88	GLU	CA-CB-CG	5.96	126.02	114.10
3	GA	88	GLU	CA-CB-CG	5.96	126.02	114.10
3	RA	88	GLU	CA-CB-CG	5.96	126.01	114.10
10	19	673	LEU	CA-CB-CG	5.96	137.14	116.30
3	G5	88	GLU	CA-CB-CG	5.95	126.00	114.10
3	Z5	88	GLU	CA-CB-CG	5.95	126.00	114.10
3	TA	88	GLU	CA-CB-CG	5.94	125.98	114.10
3	P6	158	ILE	N-CA-C	5.93	116.71	110.72
3	C5	88	GLU	CA-CB-CG	5.93	125.95	114.10
3	P2	158	ILE	N-CA-C	5.89	116.63	110.62
3	XA	88	GLU	CB-CG-CD	5.89	122.61	112.60
3	GA	88	GLU	CB-CG-CD	5.88	122.60	112.60
3	G5	88	GLU	CB-CG-CD	5.88	122.59	112.60
3	C5	88	GLU	CB-CG-CD	5.88	122.59	112.60
3	X5	88	GLU	CB-CG-CD	5.88	122.59	112.60
3	Z5	88	GLU	CB-CG-CD	5.88	122.59	112.60
3	R5	88	GLU	CB-CG-CD	5.87	122.57	112.60
3	EA	88	GLU	CB-CG-CD	5.86	122.56	112.60
3	IA	88	GLU	CB-CG-CD	5.86	122.57	112.60
3	X2	87	MET	N-CA-C	-5.86	104.97	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	V6	151	LYS	N-CA-C	5.86	118.28	108.96
3	E5	88	GLU	CB-CG-CD	5.86	122.56	112.60
3	ZA	144	ASN	N-CA-C	5.86	117.67	111.28
3	ZA	88	GLU	CB-CG-CD	5.86	122.56	112.60
6	A3	111	LYS	N-CA-C	5.85	117.66	111.28
3	M5	88	GLU	CB-CG-CD	5.85	122.55	112.60
3	T5	88	GLU	CB-CG-CD	5.85	122.55	112.60
3	MA	88	GLU	CB-CG-CD	5.85	122.55	112.60
3	RA	88	GLU	CB-CG-CD	5.85	122.55	112.60
3	TA	88	GLU	CB-CG-CD	5.85	122.55	112.60
3	P5	88	GLU	CB-CG-CD	5.85	122.55	112.60
6	A7	111	LYS	N-CA-C	5.84	117.65	111.28
3	I5	88	GLU	CB-CG-CD	5.84	122.53	112.60
3	KA	88	GLU	CB-CG-CD	5.84	122.52	112.60
3	V2	151	LYS	N-CA-C	5.83	118.24	108.96
3	CA	88	GLU	CB-CG-CD	5.83	122.52	112.60
3	MA	155	SER	N-CA-C	5.83	117.63	111.28
3	V5	88	GLU	CB-CG-CD	5.83	122.50	112.60
3	K5	88	GLU	CB-CG-CD	5.82	122.50	112.60
3	VA	88	GLU	CB-CG-CD	5.82	122.50	112.60
4	N6	157	GLN	N-CA-C	5.82	119.60	111.74
3	Z5	144	ASN	N-CA-C	5.82	117.62	111.28
3	PA	88	GLU	CB-CG-CD	5.82	122.49	112.60
4	N2	157	GLN	N-CA-C	5.82	119.59	111.74
3	M5	155	SER	N-CA-C	5.81	117.61	111.28
3	X6	87	MET	N-CA-C	-5.78	105.06	111.36
5	A5	38	VAL	N-CA-C	5.78	115.97	110.42
5	A6	226	VAL	N-CA-C	5.78	116.55	110.72
3	I5	145	ASP	CA-C-N	5.74	127.84	120.89
3	I5	145	ASP	C-N-CA	5.74	127.84	120.89
3	IA	145	ASP	CA-C-N	5.74	127.84	120.89
3	IA	145	ASP	C-N-CA	5.74	127.84	120.89
5	AA	176	THR	CA-C-N	5.71	126.98	119.84
5	AA	176	THR	C-N-CA	5.71	126.98	119.84
5	A5	176	THR	CA-C-N	5.71	126.98	119.84
5	A5	176	THR	C-N-CA	5.71	126.98	119.84
3	V6	145	ASP	CA-C-N	5.69	127.93	121.04
3	V6	145	ASP	C-N-CA	5.69	127.93	121.04
1	A1	167	ASP	N-CA-C	5.69	118.23	109.07
5	A6	228	ASN	N-CA-C	5.68	119.47	111.52
6	A7	58	LEU	N-CA-C	5.68	118.24	111.71
1	A4	167	ASP	N-CA-C	5.68	118.21	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	V2	145	ASP	CA-C-N	5.67	127.91	121.04
3	V2	145	ASP	C-N-CA	5.67	127.91	121.04
6	A3	58	LEU	N-CA-C	5.67	118.23	111.71
5	A2	60	GLU	N-CA-C	5.65	117.52	111.36
4	N4	23	LEU	CA-C-N	-5.65	112.53	120.39
4	N4	23	LEU	C-N-CA	-5.65	112.53	120.39
3	P5	145	ASP	CA-C-N	-5.65	112.78	119.84
3	P5	145	ASP	C-N-CA	-5.65	112.78	119.84
5	A6	60	GLU	N-CA-C	5.65	117.52	111.36
3	PA	145	ASP	CA-C-N	-5.64	112.80	119.84
3	PA	145	ASP	C-N-CA	-5.64	112.80	119.84
5	A2	239	PHE	N-CA-C	5.60	117.38	111.28
3	M4	78	ARG	N-CA-C	5.58	117.16	111.14
3	M1	78	ARG	N-CA-C	5.56	117.15	111.14
9	29	14	LEU	CA-CB-CG	5.53	135.66	116.30
10	19	916	LEU	CB-CG-CD2	-5.53	94.12	110.70
9	39	14	LEU	CA-CB-CG	5.53	135.65	116.30
4	N1	23	LEU	CA-C-N	-5.52	112.51	120.51
4	N1	23	LEU	C-N-CA	-5.52	112.51	120.51
5	A6	73	GLN	N-CA-C	5.51	117.37	111.36
10	09	760	TYR	CA-CB-CG	-5.51	103.98	113.90
10	19	711	ILE	CG1-CB-CG2	-5.50	94.20	110.70
5	A2	73	GLN	N-CA-C	5.48	117.33	111.36
3	TA	144	ASN	N-CA-C	5.41	117.25	111.36
3	T5	144	ASN	N-CA-C	5.40	117.24	111.36
6	A3	112	ARG	N-CA-C	5.38	117.23	111.36
4	N4	21	VAL	N-CA-C	5.38	116.04	110.82
4	N1	21	VAL	N-CA-C	5.38	116.04	110.82
4	N1	230	VAL	N-CA-C	5.29	120.35	109.34
2	S6	150	GLU	N-CA-C	5.29	116.73	111.07
4	N1	59	GLU	N-CA-C	5.28	117.03	111.28
3	V6	145	ASP	N-CA-C	5.26	117.15	109.84
4	N4	230	VAL	N-CA-C	5.26	120.27	109.34
5	A6	62	LEU	CB-CA-C	-5.25	110.50	116.54
4	N4	59	GLU	N-CA-C	5.25	117.00	111.28
3	X6	33	LYS	N-CA-C	-5.25	105.56	111.28
2	S2	150	GLU	N-CA-C	5.24	116.67	111.07
3	I6	155	SER	N-CA-C	5.24	116.99	111.28
5	A6	195	ARG	NH1-CZ-NH2	5.23	126.11	119.30
3	X2	33	LYS	N-CA-C	-5.23	105.58	111.28
3	V2	145	ASP	N-CA-C	5.22	117.10	109.84
5	A2	195	ARG	NH1-CZ-NH2	5.22	126.09	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	A2	62	LEU	CB-CA-C	-5.22	110.54	116.54
3	C3	23	GLU	CA-CB-CG	5.21	124.52	114.10
3	E6	23	GLU	CA-CB-CG	5.21	124.51	114.10
3	K3	23	GLU	CA-CB-CG	5.20	124.51	114.10
3	K2	23	GLU	CA-CB-CG	5.20	124.50	114.10
3	X2	23	GLU	CA-CB-CG	5.20	124.50	114.10
3	K6	23	GLU	CA-CB-CG	5.20	124.50	114.10
3	C7	23	GLU	CA-CB-CG	5.20	124.49	114.10
3	C6	23	GLU	CA-CB-CG	5.19	124.49	114.10
3	G7	23	GLU	CA-CB-CG	5.19	124.49	114.10
3	Z6	23	GLU	CA-CB-CG	5.19	124.48	114.10
3	Z2	23	GLU	CA-CB-CG	5.19	124.48	114.10
3	I6	23	GLU	CA-CB-CG	5.19	124.47	114.10
3	G3	23	GLU	CA-CB-CG	5.19	124.47	114.10
3	G6	23	GLU	CA-CB-CG	5.18	124.47	114.10
3	K7	23	GLU	CA-CB-CG	5.18	124.47	114.10
3	E7	23	GLU	CA-CB-CG	5.18	124.47	114.10
3	I2	23	GLU	CA-CB-CG	5.18	124.46	114.10
3	E2	23	GLU	CA-CB-CG	5.18	124.46	114.10
3	G2	23	GLU	CA-CB-CG	5.18	124.46	114.10
3	P2	23	GLU	CA-CB-CG	5.18	124.46	114.10
3	I7	155	SER	N-CA-C	5.18	116.93	111.28
3	I3	155	SER	N-CA-C	5.18	116.92	111.28
3	V6	23	GLU	CA-CB-CG	5.18	124.46	114.10
3	C2	23	GLU	CA-CB-CG	5.18	124.45	114.10
3	R2	23	GLU	CA-CB-CG	5.18	124.45	114.10
3	I2	155	SER	N-CA-C	5.17	116.92	111.28
3	M6	23	GLU	CA-CB-CG	5.17	124.44	114.10
3	R6	23	GLU	CA-CB-CG	5.17	124.44	114.10
10	19	966	ILE	N-CA-C	-5.17	100.41	107.75
3	E3	23	GLU	CA-CB-CG	5.17	124.44	114.10
3	R2	151	LYS	N-CA-C	5.17	117.66	109.24
3	X6	23	GLU	CA-CB-CG	5.17	124.43	114.10
3	M7	23	GLU	CA-CB-CG	5.17	124.43	114.10
3	T6	23	GLU	CA-CB-CG	5.17	124.43	114.10
3	M2	23	GLU	CA-CB-CG	5.16	124.43	114.10
3	M3	23	GLU	CA-CB-CG	5.16	124.43	114.10
3	P6	23	GLU	CA-CB-CG	5.16	124.43	114.10
3	V2	23	GLU	CA-CB-CG	5.16	124.42	114.10
3	T2	23	GLU	CA-CB-CG	5.16	124.42	114.10
9	49	41	GLN	CG-CD-OE1	-5.15	110.51	120.80
9	29	41	GLN	CG-CD-OE1	-5.14	110.51	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	39	41	GLN	CG-CD-OE1	-5.13	110.53	120.80
3	R6	151	LYS	N-CA-C	5.13	117.61	109.24
3	I7	23	GLU	CA-CB-CG	5.13	124.36	114.10
1	A4	128	SER	N-CA-C	5.12	116.86	111.28
3	I3	23	GLU	CA-CB-CG	5.12	124.33	114.10
1	A1	128	SER	N-CA-C	5.11	116.85	111.28
4	N4	4	THR	CA-C-N	5.11	131.31	121.54
4	N4	4	THR	C-N-CA	5.11	131.31	121.54
4	N1	4	THR	CA-C-N	5.11	131.30	121.54
4	N1	4	THR	C-N-CA	5.11	131.30	121.54
4	N4	248	GLY	CA-C-N	5.10	129.63	121.62
4	N4	248	GLY	C-N-CA	5.10	129.63	121.62
6	A3	80	ARG	N-CA-C	-5.10	105.72	111.28
6	A7	80	ARG	N-CA-C	-5.10	105.72	111.28
6	A7	149	TYR	N-CA-C	5.09	116.52	111.07
4	N1	248	GLY	CA-C-N	5.07	129.58	121.62
4	N1	248	GLY	C-N-CA	5.07	129.58	121.62
5	AA	27	GLU	CA-C-N	5.07	127.58	120.28
5	AA	27	GLU	C-N-CA	5.07	127.58	120.28
5	A5	27	GLU	CA-C-N	5.07	127.57	120.28
5	A5	27	GLU	C-N-CA	5.07	127.57	120.28
3	M1	119	GLN	CB-CG-CD	5.06	121.20	112.60
10	19	717	GLN	CA-CB-CG	5.06	124.21	114.10
6	A3	149	TYR	N-CA-C	5.05	116.48	111.07
3	X4	119	GLN	CB-CG-CD	5.04	121.17	112.60
3	MA	159	SER	N-CA-C	-5.04	105.78	111.28
3	K4	119	GLN	CB-CG-CD	5.04	121.17	112.60
3	P1	119	GLN	CB-CG-CD	5.04	121.16	112.60
3	X1	119	GLN	CB-CG-CD	5.04	121.16	112.60
3	K1	119	GLN	CB-CG-CD	5.03	121.16	112.60
3	G2	145	ASP	CA-C-N	5.03	126.98	120.89
3	G2	145	ASP	C-N-CA	5.03	126.98	120.89
3	M4	119	GLN	CB-CG-CD	5.03	121.15	112.60
3	P4	119	GLN	CB-CG-CD	5.03	121.14	112.60
3	M5	159	SER	N-CA-C	-5.03	105.80	111.28
3	C4	119	GLN	CB-CG-CD	5.02	121.14	112.60
3	E4	119	GLN	CB-CG-CD	5.02	121.14	112.60
3	C1	119	GLN	CB-CG-CD	5.02	121.13	112.60
3	R1	119	GLN	CB-CG-CD	5.01	121.12	112.60
3	G7	145	ASP	CA-C-N	5.01	126.95	120.89
3	G7	145	ASP	C-N-CA	5.01	126.95	120.89
3	G3	145	ASP	CA-C-N	5.01	126.95	120.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	G3	145	ASP	C-N-CA	5.01	126.95	120.89
3	R4	119	GLN	CB-CG-CD	5.01	121.11	112.60
10	09	218	LYS	CD-CE-NZ	5.01	127.93	111.90
3	G6	145	ASP	CA-C-N	5.01	126.95	120.89
3	G6	145	ASP	C-N-CA	5.01	126.95	120.89
3	I4	119	GLN	CB-CG-CD	5.01	121.11	112.60
3	G1	119	GLN	CB-CG-CD	5.00	121.11	112.60
3	G4	119	GLN	CB-CG-CD	5.00	121.10	112.60

There are no chirality outliers.

All (23) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
10	09	1047	ARG	Peptide
10	09	215	TYR	Peptide
10	09	537	SER	Peptide
10	09	718	GLY	Peptide
10	19	1112	LEU	Peptide
10	19	707	THR	Peptide
10	19	906	THR	Peptide
10	19	908	ILE	Peptide
10	19	943	GLN	Peptide
1	A1	22	VAL	Peptide
1	A1	29	ARG	Peptide
5	A2	37	ASP	Peptide
1	A4	22	VAL	Peptide
1	A4	29	ARG	Peptide
5	A6	37	ASP	Peptide
4	N1	235	ARG	Peptide
4	N2	206	SER	Peptide
4	N4	235	ARG	Peptide
4	N5	157	GLN	Peptide
4	N5	179	ASP	Peptide
4	N6	206	SER	Peptide
4	NA	157	GLN	Peptide
4	NA	179	ASP	Peptide

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	1774	0	1753	295	0
1	A4	1774	0	1753	279	0
2	B1	1223	0	1198	83	0
2	B2	1223	0	1198	114	0
2	B3	1223	0	1197	106	0
2	B4	1223	0	1198	83	0
2	B5	1223	0	1197	48	0
2	B6	1223	0	1198	104	0
2	B7	1223	0	1197	106	0
2	BA	1223	0	1197	47	0
2	D1	1223	0	1198	53	0
2	D2	1223	0	1198	90	0
2	D3	1223	0	1198	91	0
2	D4	1223	0	1198	53	0
2	D5	1223	0	1197	41	0
2	D6	1223	0	1198	87	0
2	D7	1223	0	1198	87	0
2	DA	1223	0	1197	41	0
2	F1	1223	0	1198	51	0
2	F2	1223	0	1198	64	0
2	F3	1223	0	1198	66	0
2	F4	1223	0	1198	56	0
2	F5	1223	0	1197	70	0
2	F6	1223	0	1198	64	0
2	F7	1223	0	1198	70	0
2	FA	1223	0	1197	78	0
2	H1	1223	0	1198	34	0
2	H2	1223	0	1198	79	0
2	H3	1223	0	1198	86	0
2	H4	1223	0	1198	35	0
2	H5	1223	0	1197	30	0
2	H6	1223	0	1197	77	0
2	H7	1223	0	1198	78	0
2	HA	1223	0	1197	26	0
2	J1	1223	0	1198	66	0
2	J2	1223	0	1198	74	0
2	J3	1223	0	1198	97	0
2	J4	1223	0	1198	61	0
2	J5	1223	0	1197	45	0
2	J6	1223	0	1198	69	0
2	J7	1223	0	1196	80	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	JA	1223	0	1197	40	0
2	L1	1223	0	1198	57	0
2	L2	1223	0	1198	88	0
2	L3	1223	0	1198	90	0
2	L4	1223	0	1198	62	0
2	L5	1223	0	1197	38	0
2	L6	1223	0	1198	95	0
2	L7	1223	0	1198	87	0
2	LA	1223	0	1197	43	0
2	O1	1223	0	1198	49	0
2	O2	1223	0	1198	84	0
2	O4	1223	0	1198	49	0
2	O5	1223	0	1197	42	0
2	O6	1223	0	1198	86	0
2	OA	1223	0	1197	43	0
2	Q1	1223	0	1197	34	0
2	Q2	1223	0	1198	94	0
2	Q4	1223	0	1197	34	0
2	Q5	1223	0	1197	44	0
2	Q6	1223	0	1198	96	0
2	QA	1223	0	1197	42	0
2	S1	1223	0	1198	43	0
2	S2	1223	0	1198	83	0
2	S4	1223	0	1198	42	0
2	S5	1223	0	1197	30	0
2	S6	1223	0	1198	79	0
2	SA	1223	0	1197	27	0
2	U1	1223	0	1198	22	0
2	U2	1223	0	1196	74	0
2	U4	1223	0	1198	22	0
2	U5	1223	0	1197	35	0
2	U6	1223	0	1196	76	0
2	UA	1223	0	1197	36	0
2	W1	1223	0	1198	45	0
2	W2	1223	0	1198	98	0
2	W4	1223	0	1198	44	0
2	W5	1223	0	1197	42	0
2	W6	1223	0	1198	94	0
2	WA	1223	0	1197	43	0
2	Y1	1223	0	1198	28	0
2	Y2	1223	0	1198	102	0
2	Y4	1223	0	1198	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Y5	1223	0	1197	35	0
2	Y6	1223	0	1198	99	0
2	YA	1223	0	1197	36	0
3	C1	1278	0	1277	77	0
3	C2	1278	0	1279	107	0
3	C3	1278	0	1279	128	0
3	C4	1278	0	1277	77	0
3	C5	1278	0	1278	77	0
3	C6	1278	0	1279	104	0
3	C7	1278	0	1279	135	0
3	CA	1278	0	1278	77	0
3	E1	1278	0	1278	59	0
3	E2	1286	0	1290	66	0
3	E3	1286	0	1290	64	0
3	E4	1278	0	1278	59	0
3	E5	1278	0	1278	101	0
3	E6	1286	0	1290	70	0
3	E7	1286	0	1290	65	0
3	EA	1278	0	1278	103	0
3	G1	1278	0	1279	77	0
3	G2	1286	0	1290	143	0
3	G3	1286	0	1290	145	0
3	G4	1278	0	1279	86	0
3	G5	1278	0	1279	106	0
3	G6	1286	0	1290	137	0
3	G7	1286	0	1290	144	0
3	GA	1278	0	1278	99	0
3	I1	1286	0	1290	73	0
3	I2	1286	0	1291	85	0
3	I3	1286	0	1291	75	0
3	I4	1286	0	1290	77	0
3	I5	1278	0	1279	54	0
3	I6	1286	0	1291	83	0
3	I7	1286	0	1291	76	0
3	IA	1278	0	1279	51	0
3	K1	1278	0	1279	100	0
3	K2	1278	0	1279	83	0
3	K3	1278	0	1279	84	0
3	K4	1278	0	1279	101	0
3	K5	1278	0	1278	74	0
3	K6	1278	0	1279	84	0
3	K7	1278	0	1279	86	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	KA	1278	0	1278	74	0
3	M1	1278	0	1278	63	0
3	M2	1278	0	1279	70	0
3	M3	1278	0	1279	69	0
3	M4	1278	0	1278	52	0
3	M5	1278	0	1278	75	0
3	M6	1278	0	1279	73	0
3	M7	1278	0	1279	67	0
3	MA	1278	0	1278	73	0
3	P1	1278	0	1278	77	0
3	P2	1278	0	1279	75	0
3	P4	1278	0	1278	76	0
3	P5	1278	0	1278	72	0
3	P6	1278	0	1279	84	0
3	PA	1278	0	1278	73	0
3	R1	1278	0	1278	52	0
3	R2	1278	0	1279	83	0
3	R4	1278	0	1278	49	0
3	R5	1278	0	1279	95	0
3	R6	1278	0	1279	85	0
3	RA	1278	0	1279	94	0
3	T1	1278	0	1279	121	0
3	T2	1278	0	1279	82	0
3	T4	1278	0	1279	119	0
3	T5	1278	0	1277	85	0
3	T6	1278	0	1279	81	0
3	TA	1278	0	1277	83	0
3	V1	1278	0	1279	74	0
3	V2	1278	0	1279	92	0
3	V4	1278	0	1279	74	0
3	V5	1278	0	1278	81	0
3	V6	1278	0	1279	95	0
3	VA	1278	0	1278	79	0
3	X1	1278	0	1279	57	0
3	X2	1278	0	1279	87	0
3	X4	1278	0	1278	46	0
3	X5	1278	0	1279	75	0
3	X6	1278	0	1279	95	0
3	XA	1278	0	1279	70	0
3	Z1	1278	0	1279	44	0
3	Z2	1278	0	1279	93	0
3	Z4	1278	0	1279	40	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	Z5	1278	0	1278	74	0
3	Z6	1278	0	1279	98	0
3	ZA	1278	0	1278	74	0
4	N1	2265	0	2233	111	0
4	N2	2265	0	2233	146	0
4	N3	444	0	456	40	0
4	N4	2265	0	2233	112	0
4	N5	2265	0	2233	136	0
4	N6	2265	0	2233	143	0
4	N7	444	0	456	41	0
4	NA	2265	0	2233	133	0
5	A2	2038	0	1988	226	0
5	A5	1944	0	1903	360	0
5	A6	2038	0	1988	223	0
5	AA	1944	0	1902	307	0
6	A3	1127	0	1097	294	0
6	A7	1127	0	1097	281	0
7	A8	1204	0	1209	46	0
7	A9	1204	0	1208	107	0
7	C8	1204	0	1209	88	0
7	C9	1204	0	1207	45	0
7	E8	1204	0	1209	63	0
7	E9	1204	0	1208	57	0
7	G9	1204	0	1208	43	0
7	H8	1204	0	1209	58	0
7	I9	1204	0	1208	110	0
7	J8	1204	0	1209	86	0
7	K9	1204	0	1208	50	0
7	L8	1204	0	1209	59	0
7	N9	1204	0	1208	74	0
7	O8	1204	0	1209	96	0
7	P9	1204	0	1208	37	0
7	Q8	1204	0	1209	38	0
7	R9	1204	0	1208	37	0
7	S8	1204	0	1209	53	0
7	T9	1204	0	1207	46	0
7	V8	1204	0	1208	148	0
7	X8	1204	0	1209	36	0
7	X9	1204	0	1208	102	0
7	Z8	1204	0	1208	45	0
7	Z9	1204	0	1208	55	0
7	b9	1204	0	1208	43	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	c8	1204	0	1209	161	0
7	d9	1204	0	1208	78	0
7	e8	1204	0	1209	38	0
7	f9	1204	0	1208	41	0
7	g8	1204	0	1208	39	0
7	i9	1204	0	1208	34	0
7	j8	1204	0	1209	48	0
7	k9	1204	0	1208	71	0
7	l8	1204	0	1209	53	0
7	n8	1204	0	1209	82	0
7	o9	1204	0	1208	58	0
7	p8	1204	0	1209	51	0
7	q9	1204	0	1208	92	0
7	r8	1204	0	1209	39	0
7	s9	1204	0	1208	36	0
7	t8	1204	0	1209	67	0
7	u9	1204	0	1208	58	0
7	w9	1204	0	1208	116	0
7	y9	1204	0	1208	37	0
8	B8	1201	0	1216	72	0
8	B9	1201	0	1217	19	0
8	D8	1201	0	1217	52	0
8	D9	1201	0	1216	34	0
8	F8	1201	0	1217	37	0
8	F9	1201	0	1217	39	0
8	H9	1201	0	1217	25	0
8	I8	1201	0	1215	50	0
8	J9	1201	0	1217	29	0
8	K8	1201	0	1217	45	0
8	L9	1201	0	1217	27	0
8	M8	1201	0	1217	39	0
8	M9	1201	0	1217	35	0
8	O9	1201	0	1217	34	0
8	P8	1192	0	1209	43	0
8	R8	1201	0	1217	35	0
8	S9	1201	0	1217	25	0
8	T8	1201	0	1217	43	0
8	U9	1201	0	1217	26	0
8	W8	1201	0	1217	86	0
8	W9	1201	0	1217	27	0
8	Y8	1201	0	1217	28	0
8	Y9	1201	0	1217	20	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	a8	1201	0	1217	50	0
8	a9	1201	0	1217	27	0
8	c9	1201	0	1217	24	0
8	d8	1201	0	1216	73	0
8	e9	1201	0	1217	33	0
8	f8	1201	0	1217	42	0
8	h8	1201	0	1215	42	0
8	h9	1201	0	1217	29	0
8	j9	1201	0	1217	21	0
8	k8	1201	0	1217	70	0
8	l9	1201	0	1217	34	0
8	m8	1201	0	1217	75	0
8	n9	1201	0	1217	29	0
8	o8	1192	0	1209	109	0
8	p9	1201	0	1217	27	0
8	q8	1192	0	1208	51	0
8	r9	1201	0	1217	33	0
8	s8	1201	0	1217	68	0
8	t9	1201	0	1215	57	0
8	u8	1201	0	1214	57	0
8	v9	1201	0	1217	22	0
8	x9	1201	0	1217	31	0
8	z9	1201	0	1215	50	0
9	29	529	0	554	35	0
9	39	529	0	555	21	0
9	49	529	0	554	64	0
9	G8	529	0	556	33	0
9	N8	529	0	556	28	0
9	U8	529	0	556	51	0
9	b8	529	0	556	45	0
9	i8	529	0	556	60	0
10	09	8352	0	8386	557	0
10	19	8299	0	8332	427	0
11	Q9	1304	0	1298	24	0
11	g9	1312	0	1310	27	0
12	V9	1244	0	1261	21	0
12	m9	1244	0	1261	24	0
13	09	129	0	114	42	0
13	19	215	0	188	75	0
13	29	43	0	37	14	0
13	39	43	0	37	9	0
13	A3	43	0	38	24	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	A5	172	0	152	127	0
13	A7	43	0	38	24	0
13	A8	43	0	38	16	0
13	A9	43	0	38	19	0
13	AA	172	0	152	123	0
13	B1	43	0	38	18	0
13	B2	43	0	38	24	0
13	B3	43	0	38	26	0
13	B4	43	0	38	18	0
13	B5	43	0	38	6	0
13	B6	43	0	38	27	0
13	B7	43	0	38	27	0
13	B8	43	0	38	35	0
13	B9	43	0	38	11	0
13	C1	86	0	74	46	0
13	C2	86	0	76	71	0
13	C3	43	0	38	42	0
13	C4	86	0	74	46	0
13	C5	43	0	35	30	0
13	C6	86	0	76	71	0
13	C7	43	0	38	42	0
13	C8	43	0	38	16	0
13	C9	43	0	38	19	0
13	CA	43	0	35	29	0
13	D1	43	0	38	30	0
13	D2	43	0	38	17	0
13	D3	43	0	38	17	0
13	D4	43	0	38	30	0
13	D5	43	0	38	11	0
13	D6	43	0	38	17	0
13	D7	43	0	38	17	0
13	D8	43	0	38	29	0
13	D9	43	0	38	22	0
13	DA	43	0	38	11	0
13	E1	86	0	75	46	0
13	E2	86	0	73	54	0
13	E3	86	0	73	61	0
13	E4	86	0	75	45	0
13	E5	86	0	76	53	0
13	E6	86	0	73	53	0
13	E7	86	0	73	61	0
13	E8	43	0	38	16	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	E9	43	0	38	19	0
13	EA	86	0	76	53	0
13	F1	43	0	38	18	0
13	F2	43	0	38	16	0
13	F3	43	0	38	16	0
13	F4	43	0	38	19	0
13	F6	43	0	38	17	0
13	F7	43	0	38	18	0
13	F8	43	0	38	28	0
13	F9	43	0	38	16	0
13	G1	86	0	76	67	0
13	G2	86	0	75	73	0
13	G3	86	0	75	67	0
13	G4	86	0	76	68	0
13	G5	43	0	38	41	0
13	G6	86	0	75	75	0
13	G7	86	0	75	69	0
13	G9	43	0	38	19	0
13	GA	86	0	76	46	0
13	H1	43	0	38	7	0
13	H2	43	0	38	20	0
13	H3	43	0	38	20	0
13	H4	43	0	38	7	0
13	H6	43	0	38	20	0
13	H7	43	0	38	20	0
13	H8	43	0	38	18	0
13	H9	43	0	38	10	0
13	I1	86	0	75	53	0
13	I2	86	0	76	60	0
13	I3	86	0	76	58	0
13	I4	86	0	75	57	0
13	I5	86	0	76	49	0
13	I6	86	0	76	59	0
13	I7	86	0	76	61	0
13	I8	43	0	38	26	0
13	I9	43	0	38	19	0
13	IA	86	0	76	48	0
13	J1	43	0	38	27	0
13	J2	43	0	38	25	0
13	J3	43	0	38	24	0
13	J4	43	0	38	26	0
13	J5	43	0	38	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	J6	43	0	38	24	0
13	J7	43	0	38	24	0
13	J8	43	0	38	16	0
13	J9	43	0	38	10	0
13	JA	43	0	38	2	0
13	K1	86	0	76	85	0
13	K2	86	0	76	82	0
13	K3	86	0	76	80	0
13	K4	86	0	76	87	0
13	K5	43	0	38	27	0
13	K6	86	0	76	81	0
13	K7	86	0	76	82	0
13	K8	43	0	38	29	0
13	K9	43	0	38	19	0
13	KA	43	0	38	27	0
13	L1	43	0	38	13	0
13	L2	43	0	38	17	0
13	L3	43	0	38	17	0
13	L4	43	0	38	13	0
13	L5	43	0	38	9	0
13	L6	43	0	38	17	0
13	L7	43	0	38	17	0
13	L8	43	0	38	16	0
13	L9	43	0	38	9	0
13	LA	43	0	38	9	0
13	M1	86	0	75	52	0
13	M2	43	0	38	28	0
13	M3	43	0	38	28	0
13	M4	86	0	75	50	0
13	M5	129	0	114	68	0
13	M6	43	0	38	29	0
13	M7	43	0	38	27	0
13	M8	43	0	38	28	0
13	MA	129	0	114	70	0
13	N2	86	0	76	44	0
13	N3	43	0	38	30	0
13	N5	43	0	38	19	0
13	N6	86	0	76	47	0
13	N7	43	0	38	29	0
13	N9	43	0	38	19	0
13	NA	43	0	38	18	0
13	O1	43	0	38	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	O2	43	0	38	13	0
13	O4	43	0	38	26	0
13	O5	43	0	38	1	0
13	O6	43	0	38	14	0
13	O8	43	0	38	16	0
13	O9	43	0	38	11	0
13	OA	43	0	38	1	0
13	P1	86	0	74	61	0
13	P2	43	0	38	22	0
13	P4	86	0	74	60	0
13	P5	129	0	114	70	0
13	P6	43	0	38	22	0
13	P8	43	0	38	29	0
13	P9	43	0	38	20	0
13	PA	129	0	114	70	0
13	Q1	86	0	76	47	0
13	Q2	43	0	38	39	0
13	Q4	86	0	76	47	0
13	Q6	43	0	38	40	0
13	Q8	43	0	38	16	0
13	Q9	43	0	37	1	0
13	R1	43	0	37	6	0
13	R2	43	0	38	23	0
13	R4	43	0	37	6	0
13	R5	43	0	38	58	0
13	R6	43	0	38	25	0
13	R8	43	0	38	28	0
13	R9	43	0	38	19	0
13	RA	43	0	38	56	0
13	S1	43	0	38	20	0
13	S2	43	0	38	25	0
13	S4	43	0	38	21	0
13	S5	43	0	38	11	0
13	S6	43	0	38	24	0
13	S8	43	0	38	16	0
13	S9	43	0	38	10	0
13	SA	43	0	38	11	0
13	T1	86	0	76	92	0
13	T2	43	0	38	41	0
13	T4	86	0	76	94	0
13	T5	86	0	73	81	0
13	T6	43	0	38	39	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	T8	43	0	38	27	0
13	T9	43	0	38	19	0
13	TA	86	0	73	83	0
13	U1	43	0	38	7	0
13	U2	86	0	74	61	0
13	U4	43	0	38	7	0
13	U5	43	0	38	10	0
13	U6	86	0	74	61	0
13	U9	43	0	38	8	0
13	UA	43	0	38	10	0
13	V1	86	0	76	79	0
13	V2	86	0	76	68	0
13	V4	86	0	76	80	0
13	V5	86	0	76	69	0
13	V6	86	0	76	68	0
13	V8	43	0	38	16	0
13	V9	43	0	36	2	0
13	VA	86	0	76	70	0
13	W1	43	0	38	21	0
13	W2	129	0	114	117	0
13	W4	43	0	38	23	0
13	W5	43	0	38	8	0
13	W6	86	0	76	63	0
13	W8	43	0	38	26	0
13	WA	43	0	38	8	0
13	X1	86	0	76	52	0
13	X2	43	0	38	17	0
13	X4	86	0	75	41	0
13	X5	86	0	76	49	0
13	X6	86	0	76	66	0
13	X8	43	0	38	16	0
13	X9	43	0	38	19	0
13	XA	86	0	76	49	0
13	Y1	43	0	38	4	0
13	Y2	43	0	38	30	0
13	Y4	43	0	38	4	0
13	Y5	43	0	38	8	0
13	Y6	43	0	38	30	0
13	Y8	43	0	38	30	0
13	YA	43	0	38	8	0
13	Z1	86	0	76	46	0
13	Z2	86	0	76	66	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	Z4	86	0	76	45	0
13	Z5	86	0	76	54	0
13	Z6	86	0	76	66	0
13	Z8	43	0	38	16	0
13	Z9	43	0	38	15	0
13	ZA	86	0	76	55	0
13	b8	43	0	38	32	0
13	b9	43	0	38	19	0
13	c8	43	0	38	16	0
13	c9	43	0	38	10	0
13	d8	43	0	38	34	0
13	d9	43	0	38	15	0
13	e8	43	0	38	15	0
13	e9	43	0	38	10	0
13	f8	43	0	38	31	0
13	f9	43	0	38	20	0
13	g8	43	0	38	16	0
13	g9	43	0	37	0	0
13	h8	43	0	38	25	0
13	i9	43	0	38	15	0
13	j8	43	0	38	16	0
13	j9	43	0	38	10	0
13	k8	43	0	38	34	0
13	k9	43	0	38	19	0
13	l8	43	0	38	16	0
13	l9	43	0	38	6	0
13	m9	43	0	36	2	0
13	n8	43	0	38	15	0
13	o8	43	0	38	43	0
13	o9	43	0	38	19	0
13	p8	43	0	38	16	0
13	p9	43	0	38	10	0
13	q8	43	0	38	35	0
13	q9	43	0	38	19	0
13	r8	43	0	38	16	0
13	r9	43	0	38	11	0
13	s8	43	0	38	35	0
13	s9	43	0	38	19	0
13	t8	43	0	38	16	0
13	t9	43	0	38	10	0
13	u9	43	0	38	19	0
13	v9	43	0	38	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	w9	43	0	38	19	0
13	x9	43	0	38	10	0
13	y9	43	0	38	19	0
13	z9	43	0	38	10	0
All	All	387586	0	384517	19363	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 25.

All (19363) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G1:154:CYS:SG	13:G1:201:CYC:HBC2	1.33	1.68
3:G4:154:CYS:SG	13:G4:201:CYC:HBC2	1.33	1.68
3:E5:154:CYS:SG	13:E5:201:CYC:H2C	1.25	1.65
3:EA:154:CYS:SG	13:EA:201:CYC:H2C	1.25	1.65
3:I6:87:MET:CE	13:I6:201:CYC:HBC1	1.19	1.65
2:H3:31:ARG:HH11	2:H3:103:GLY:CA	1.04	1.64
3:T4:127:SER:CB	13:T4:202:CYC:HBB1	1.22	1.64
4:NA:62:LEU:HD21	4:NA:72:PHE:CD1	1.17	1.64
3:M3:87:MET:CE	13:N3:301:CYC:HBC1	1.18	1.63
3:G4:70:PRO:CG	8:W8:18:LYS:HZ2	1.09	1.63
4:N5:62:LEU:HD21	4:N5:72:PHE:CD1	1.17	1.62
3:T1:127:SER:CB	13:T1:202:CYC:HBB1	1.22	1.61
9:b8:24:GLN:HE21	10:19:963:THR:CA	1.06	1.61
5:A5:241:ILE:HD12	7:A9:78:THR:CG2	1.13	1.60
3:M6:87:MET:CE	13:N6:301:CYC:HBC1	1.18	1.60
6:A7:104:ARG:CD	6:A7:108:ILE:HD11	1.18	1.60
2:W2:34:ARG:HH11	13:W2:201:CYC:C2C	1.12	1.60
6:A3:14:ASN:HA	13:E3:201:CYC:CMA	1.17	1.60
6:A7:14:ASN:CA	13:E7:201:CYC:HMA1	1.31	1.60
8:t9:63:TYR:CA	5:AA:205:LYS:HZ2	1.12	1.60
3:M2:87:MET:CE	13:N2:301:CYC:HBC1	1.18	1.60
1:A1:195:ILE:CG2	7:c8:80:THR:HG23	1.27	1.59
3:M7:87:MET:CE	13:N7:301:CYC:HBC1	1.18	1.59
3:RA:154:CYS:SG	13:RA:201:CYC:HAC2	1.38	1.59
3:I2:87:MET:CE	13:I2:201:CYC:HBC1	1.19	1.59
3:R5:154:CYS:SG	13:R5:201:CYC:HAC2	1.38	1.59
3:P6:44:ARG:HH21	3:P6:149:ILE:CG1	1.15	1.59
6:A7:14:ASN:HA	13:E7:201:CYC:CMA	1.17	1.58
6:A3:104:ARG:CD	6:A3:108:ILE:HD11	1.18	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P2:44:ARG:HH21	3:P2:149:ILE:CG1	1.15	1.57
1:A4:195:ILE:CG2	7:V8:80:THR:CG2	1.82	1.57
2:W6:34:ARG:HH11	13:W6:201:CYC:C2C	1.12	1.57
1:A4:207:ILE:CD1	7:V8:66:VAL:HG11	1.20	1.57
3:Z6:87:MET:HE1	13:Z6:202:CYC:CBC	1.17	1.57
3:Z2:87:MET:HE1	13:Z2:202:CYC:CBC	1.17	1.57
3:I3:87:MET:CE	13:I3:201:CYC:CBC	1.80	1.57
3:V5:60:LEU:HD21	13:V5:201:CYC:CBB	1.28	1.57
3:I2:87:MET:HE1	13:I2:201:CYC:CBC	1.29	1.56
1:A4:195:ILE:CG2	7:V8:80:THR:HG23	1.21	1.56
1:A4:207:ILE:HD13	7:V8:66:VAL:CG1	1.21	1.56
3:I6:87:MET:HE1	13:I6:201:CYC:CBC	1.29	1.56
8:o8:115:GLU:CB	10:09:1114:LYS:HZ1	1.14	1.56
2:LA:32:TYR:CE1	3:MA:35:GLY:HA3	1.40	1.55
3:I7:87:MET:HE1	13:I7:201:CYC:CBC	1.29	1.55
4:NA:62:LEU:CD2	4:NA:72:PHE:CD1	1.82	1.55
2:B1:83:SER:CB	8:d8:27:LYS:HG3	1.32	1.55
3:VA:60:LEU:HD21	13:VA:201:CYC:CBB	1.28	1.55
2:O6:31:ARG:HH21	2:O6:35:ALA:CB	1.17	1.55
3:R6:87:MET:CE	13:R6:1001:CYC:HBC1	1.37	1.54
3:I7:87:MET:CE	13:I7:201:CYC:HBC1	1.19	1.54
3:M7:87:MET:HE1	13:N7:301:CYC:CBC	1.36	1.54
6:A3:14:ASN:CA	13:E3:201:CYC:HMA1	1.31	1.54
3:I3:87:MET:CE	13:I3:201:CYC:HBC1	1.19	1.54
3:G3:71:GLY:HA3	2:FA:62:GLN:CD	1.27	1.54
4:N5:62:LEU:CD2	4:N5:72:PHE:CD1	1.82	1.54
3:R6:154:CYS:SG	13:U6:201:CYC:HAC2	1.47	1.54
3:G5:154:CYS:SG	13:G5:201:CYC:H2C	1.48	1.54
3:I7:83:CYS:CB	13:I7:201:CYC:HAC2	1.37	1.54
8:S9:82:CYS:SG	13:S9:1001:CYC:HAC2	1.48	1.53
8:x9:82:CYS:SG	13:x9:1001:CYC:HAC2	1.48	1.53
5:A5:205:LYS:HZ2	8:z9:63:TYR:C	1.14	1.53
3:M6:87:MET:HE1	13:N6:301:CYC:CBC	1.36	1.53
8:O9:82:CYS:SG	13:O9:1001:CYC:HAC2	1.48	1.53
8:e9:82:CYS:SG	13:e9:1001:CYC:HAC2	1.48	1.53
3:I6:87:MET:CE	13:I6:201:CYC:CBC	1.80	1.53
13:39:1001:CYC:HAC2	8:n9:82:CYS:SG	1.48	1.53
8:H9:82:CYS:SG	13:H9:1001:CYC:HAC2	1.48	1.53
8:t9:82:CYS:SG	13:t9:1001:CYC:HAC2	1.48	1.53
1:A4:195:ILE:HD13	7:V8:80:THR:CG2	1.33	1.53
8:D9:82:CYS:SG	13:D9:1001:CYC:HAC2	1.48	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:L9:82:CYS:SG	13:L9:1001:CYC:HAC2	1.48	1.53
4:NA:92:GLN:NE2	4:NA:121:TYR:CE1	1.73	1.53
3:I3:87:MET:HE1	13:I3:201:CYC:CBC	1.29	1.53
3:M7:83:CYS:CB	13:N7:301:CYC:HAC2	1.39	1.53
3:Z1:83:CYS:SG	13:Z1:202:CYC:HAC2	1.47	1.52
3:R2:87:MET:CE	13:R2:1001:CYC:HBC1	1.37	1.52
3:Z4:83:CYS:SG	13:Z4:202:CYC:HAC2	1.47	1.52
8:j9:82:CYS:SG	13:j9:1001:CYC:HAC2	1.48	1.52
3:VA:154:CYS:SG	13:VA:202:CYC:HMB1	1.46	1.52
2:O2:31:ARG:HH21	2:O2:35:ALA:CB	1.17	1.52
2:L5:32:TYR:CE1	3:M5:35:GLY:HA3	1.40	1.52
13:09:1203:CYC:HAC2	8:M9:82:CYS:SG	1.48	1.52
3:I6:83:CYS:CB	13:I6:201:CYC:HAC2	1.37	1.52
3:I7:83:CYS:HB2	13:I7:201:CYC:CAC	1.39	1.52
7:j8:110:ILE:CD1	10:09:1117:TRP:HZ2	1.21	1.52
3:EA:39:LEU:CD2	13:EA:201:CYC:HBB3	1.39	1.52
3:M3:87:MET:HE1	13:N3:301:CYC:CBC	1.36	1.51
3:I7:87:MET:CE	13:I7:201:CYC:CBC	1.80	1.51
8:F9:82:CYS:SG	13:F9:1001:CYC:HAC2	1.48	1.51
3:M3:83:CYS:HB2	13:N3:301:CYC:CAC	1.40	1.51
3:I6:83:CYS:HB2	13:I6:201:CYC:CAC	1.39	1.51
3:M6:83:CYS:CB	13:N6:301:CYC:HAC2	1.39	1.51
7:L8:25:ARG:HD3	7:Z9:25:ARG:NH1	1.22	1.51
13:19:1205:CYC:HAC2	8:h9:82:CYS:SG	1.48	1.51
3:GA:154:CYS:SG	13:GA:1002:CYC:H2C	1.48	1.51
3:I3:83:CYS:CB	13:I3:201:CYC:HAC2	1.37	1.51
7:O8:66:VAL:CB	5:AA:234:GLN:NE2	1.70	1.51
8:p9:82:CYS:SG	13:p9:1001:CYC:HAC2	1.48	1.51
3:M2:87:MET:HE1	13:N2:301:CYC:CBC	1.36	1.51
5:A2:222:LEU:CD2	7:X9:82:LEU:HD13	1.37	1.50
2:H6:31:ARG:NH2	2:H6:35:ALA:CB	1.70	1.50
8:J9:82:CYS:SG	13:J9:1001:CYC:HAC2	1.48	1.50
8:l9:82:CYS:SG	13:l9:1001:CYC:HAC2	1.48	1.50
3:M7:83:CYS:HB2	13:N7:301:CYC:CAC	1.40	1.50
2:B2:86:ALA:CB	7:k9:60:GLN:CD	1.80	1.50
2:W6:34:ARG:NH1	13:W6:201:CYC:C2C	1.74	1.50
13:19:1203:CYC:HAC2	8:Y9:82:CYS:SG	1.48	1.50
13:19:1204:CYC:HAC2	8:a9:82:CYS:SG	1.48	1.50
8:z9:82:CYS:SG	13:z9:1001:CYC:HAC2	1.48	1.50
3:I2:83:CYS:HB2	13:I2:201:CYC:CAC	1.39	1.50
3:R2:154:CYS:SG	13:U2:201:CYC:HAC2	1.47	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c9:82:CYS:SG	13:c9:1001:CYC:HAC2	1.48	1.50
3:I2:83:CYS:CB	13:I2:201:CYC:HAC2	1.37	1.50
3:C3:58:ARG:NH2	2:D3:73:PRO:HB2	1.25	1.50
13:29:1001:CYC:HAC2	8:W9:82:CYS:SG	1.48	1.50
2:B2:86:ALA:HB2	7:k9:60:GLN:CD	1.28	1.49
3:M6:83:CYS:HB2	13:N6:301:CYC:CAC	1.40	1.49
2:Q6:31:ARG:NH2	2:Q6:35:ALA:HB2	1.25	1.49
8:B9:82:CYS:SG	13:B9:1001:CYC:HAC2	1.48	1.49
6:A3:71:GLN:CD	6:A3:77:ILE:CD1	1.83	1.49
9:U8:43:ARG:HD2	10:09:851:ASN:ND2	1.22	1.49
8:U9:82:CYS:SG	13:U9:1001:CYC:HAC2	1.48	1.49
8:r9:82:CYS:SG	13:r9:1001:CYC:HAC2	1.48	1.49
8:v9:82:CYS:SG	13:v9:1001:CYC:HAC2	1.48	1.49
3:I2:87:MET:CE	13:I2:201:CYC:CBC	1.80	1.49
3:M2:83:CYS:CB	13:N2:301:CYC:HAC2	1.39	1.49
2:W6:34:ARG:NH1	13:W6:201:CYC:H2C	1.25	1.49
3:M2:83:CYS:HB2	13:N2:301:CYC:CAC	1.40	1.48
3:E5:39:LEU:CD2	13:E5:201:CYC:HBB3	1.39	1.48
3:IA:87:MET:HE3	13:IA:201:CYC:CBC	1.43	1.48
8:k8:115:GLU:CG	7:C9:49:ARG:NH2	1.71	1.48
3:I3:83:CYS:HB2	13:I3:201:CYC:CAC	1.39	1.47
6:A3:71:GLN:CD	6:A3:77:ILE:HD12	1.33	1.47
3:I5:87:MET:HE3	13:I5:201:CYC:CBC	1.43	1.47
8:q8:84:ARG:NH1	10:19:1059:ASN:HD21	1.03	1.47
3:VA:60:LEU:CD2	13:VA:201:CYC:HBB1	0.99	1.47
3:E5:39:LEU:CD2	13:E5:201:CYC:CBB	1.93	1.47
3:C3:93:TYR:CD2	3:C3:110:CYS:SG	2.08	1.47
3:V5:154:CYS:SG	13:V5:202:CYC:HMB2	1.55	1.47
5:A6:229:GLN:CA	7:I9:66:VAL:HG11	1.40	1.47
8:s8:144:ALA:CB	8:O9:29:LYS:NZ	1.78	1.47
3:C2:93:TYR:CD2	3:C2:110:CYS:SG	2.08	1.47
3:C6:58:ARG:NH2	2:D6:73:PRO:HB2	1.25	1.47
3:C6:93:TYR:CD2	3:C6:110:CYS:SG	2.08	1.46
3:Z6:87:MET:CE	13:Z6:202:CYC:HBC1	1.00	1.46
1:A1:195:ILE:HD13	7:c8:80:THR:CG2	1.43	1.46
3:T2:154:CYS:SG	13:T2:201:CYC:HBC1	1.55	1.46
3:M3:83:CYS:CB	13:N3:301:CYC:HAC2	1.39	1.46
3:T5:154:CYS:SG	13:T5:202:CYC:C2C	2.03	1.46
10:19:986:PHE:CZ	13:19:1201:CYC:O2A	1.64	1.46
8:t9:63:TYR:C	5:AA:205:LYS:HZ2	1.18	1.46
3:G3:71:GLY:HA3	2:FA:62:GLN:NE2	1.22	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:104:ARG:HD2	6:A7:108:ILE:CD1	1.47	1.45
3:C7:93:TYR:CD2	3:C7:110:CYS:SG	2.08	1.45
9:b8:24:GLN:NE2	10:19:963:THR:HA	1.30	1.45
2:BA:34:ARG:HH11	2:BA:150:GLU:CD	1.21	1.45
5:A6:229:GLN:HA	7:I9:66:VAL:CG1	1.47	1.45
8:t9:63:TYR:CA	5:AA:205:LYS:NZ	1.73	1.45
3:Z2:87:MET:CE	13:Z2:202:CYC:HBC1	1.00	1.45
3:P2:44:ARG:NH2	3:P2:149:ILE:HG13	1.31	1.45
6:A3:104:ARG:HD2	6:A3:108:ILE:CD1	1.47	1.45
3:TA:154:CYS:SG	13:TA:202:CYC:C2C	2.03	1.45
5:A5:223:ALA:CB	7:q9:78:THR:HG23	1.45	1.44
3:V5:60:LEU:CD2	13:V5:201:CYC:HBB1	0.99	1.44
2:Y2:31:ARG:NH2	2:Y2:35:ALA:CB	1.79	1.44
3:V5:60:LEU:CD2	13:V5:201:CYC:CBB	1.85	1.44
3:T6:154:CYS:SG	13:T6:201:CYC:HBC1	1.55	1.44
2:B2:86:ALA:HB2	7:k9:60:GLN:NE2	1.21	1.44
2:L4:51:ARG:NH1	3:C7:148:GLY:HA2	1.16	1.44
3:V6:58:ARG:NH2	2:W6:73:PRO:HB2	1.26	1.44
3:I2:115:ARG:NH2	4:N2:9:ARG:HD2	1.21	1.44
8:o8:82:CYS:SG	13:o8:1001:CYC:HAC2	1.58	1.44
3:VA:60:LEU:CD2	13:VA:201:CYC:CBB	1.85	1.44
3:X2:58:ARG:NH2	2:Y2:73:PRO:HB2	1.14	1.43
5:A5:39:SER:HG	3:M5:2:THR:N	0.97	1.43
2:B2:73:PRO:CB	3:G2:58:ARG:NH2	1.82	1.43
2:L4:51:ARG:CZ	3:C7:148:GLY:HA2	1.46	1.43
5:A5:239:PHE:CB	7:A9:52:LYS:HE2	1.49	1.43
3:RA:39:LEU:HD23	13:RA:201:CYC:CBB	1.48	1.43
5:A2:229:GLN:CA	7:X9:66:VAL:HG11	1.46	1.42
2:Y6:31:ARG:NH2	2:Y6:35:ALA:CB	1.79	1.42
3:EA:39:LEU:CD2	13:EA:201:CYC:CBB	1.93	1.42
2:B3:73:PRO:CB	3:G3:58:ARG:NH2	1.82	1.42
8:t9:63:TYR:HB3	5:AA:205:LYS:CD	1.47	1.42
2:B6:73:PRO:CB	3:G6:58:ARG:NH2	1.82	1.42
1:A1:195:ILE:CG2	7:c8:80:THR:CG2	1.94	1.42
3:C2:58:ARG:NH2	2:D2:73:PRO:HB2	1.25	1.42
3:I6:115:ARG:NH2	4:N6:9:ARG:HD2	1.21	1.42
5:A5:205:LYS:HZ2	8:z9:63:TYR:CA	1.33	1.42
3:V2:58:ARG:NH2	2:W2:73:PRO:HB2	1.26	1.41
2:JA:31:ARG:HH11	2:JA:103:GLY:CA	1.32	1.41
6:A3:104:ARG:CD	6:A3:108:ILE:CD1	1.97	1.41
2:B5:34:ARG:HH11	2:B5:150:GLU:CD	1.21	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X6:58:ARG:NH2	2:Y6:73:PRO:HB2	1.14	1.41
9:U8:46:LYS:HD3	10:09:848:GLN:NE2	1.30	1.41
9:29:41:GLN:NE2	13:29:1001:CYC:NB	1.60	1.41
2:Q2:31:ARG:NH2	2:Q2:35:ALA:HB2	1.25	1.41
9:U8:43:ARG:CD	10:09:851:ASN:ND2	1.81	1.41
3:T1:82:ALA:CB	13:T1:202:CYC:HAA2	1.50	1.41
3:T4:82:ALA:CB	13:T4:202:CYC:HAA2	1.50	1.41
3:G6:44:ARG:NH1	3:G6:145:ASP:HB2	1.08	1.41
3:R5:39:LEU:HD23	13:R5:201:CYC:CBB	1.48	1.41
2:W2:34:ARG:NH1	13:W2:201:CYC:H2C	1.25	1.40
2:J5:31:ARG:HH11	2:J5:103:GLY:CA	1.32	1.40
3:P6:44:ARG:NH2	3:P6:149:ILE:HG13	1.31	1.40
2:LA:32:TYR:HE1	3:MA:35:GLY:CA	1.33	1.40
2:B4:86:ALA:CB	8:W8:26:GLU:HG3	1.48	1.40
3:G2:44:ARG:NH1	3:G2:145:ASP:HB2	1.08	1.40
6:A7:104:ARG:CD	6:A7:108:ILE:CD1	1.97	1.40
2:L5:32:TYR:HE1	3:M5:35:GLY:CA	1.33	1.40
2:O6:31:ARG:NH2	2:O6:35:ALA:CB	1.82	1.40
2:W6:34:ARG:NH1	13:W6:201:CYC:C1C	1.85	1.39
2:JA:31:ARG:NH1	2:JA:103:GLY:HA3	1.07	1.39
3:K1:83:CYS:HB2	13:K1:201:CYC:C2B	1.51	1.39
3:C2:154:CYS:SG	13:C2:202:CYC:HAC2	1.63	1.39
2:B4:86:ALA:HB2	8:W8:26:GLU:CG	1.52	1.39
2:B7:73:PRO:CB	3:G7:58:ARG:NH2	1.82	1.39
7:K9:83:ARG:NH2	13:K9:1001:CYC:O2A	1.56	1.39
2:Y6:31:ARG:HH21	2:Y6:35:ALA:CB	1.35	1.39
3:C7:58:ARG:NH2	2:D7:73:PRO:HB2	1.25	1.39
7:A8:20:PRO:CB	7:I9:151:SER:OG	1.71	1.39
7:k9:83:ARG:NH2	13:k9:1001:CYC:O2A	1.56	1.39
7:w9:83:ARG:NH2	13:w9:1001:CYC:O2A	1.56	1.39
3:K1:83:CYS:HB2	13:K1:201:CYC:CMB	1.52	1.39
2:H2:31:ARG:HH11	2:H2:103:GLY:CA	1.35	1.39
2:B6:119:ILE:HD11	13:B6:1001:CYC:CMA	1.51	1.39
7:u9:83:ARG:NH2	13:u9:1001:CYC:O2A	1.56	1.38
2:O2:31:ARG:NH2	2:O2:35:ALA:CB	1.82	1.38
3:P2:83:CYS:CB	13:P2:201:CYC:HAC2	1.53	1.38
2:B3:119:ILE:HD11	13:B3:1001:CYC:CMA	1.51	1.38
3:C5:68:ILE:CD1	13:D5:1001:CYC:O1A	1.71	1.38
7:O8:66:VAL:HB	5:AA:234:GLN:NE2	1.07	1.38
3:C3:152:GLY:HA3	13:C3:201:CYC:CMD	1.53	1.38
2:H3:31:ARG:NH1	2:H3:103:GLY:CA	1.86	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:195:ILE:CD1	8:a8:63:TYR:HE1	1.33	1.38
2:JA:31:ARG:NH1	2:JA:103:GLY:CA	1.84	1.38
2:Q2:31:ARG:NH2	2:Q2:35:ALA:CB	1.85	1.38
3:G4:70:PRO:CG	8:W8:18:LYS:NZ	1.80	1.38
3:T1:154:CYS:SG	13:T1:201:CYC:H2C	1.64	1.38
3:V4:127:SER:CB	13:V4:202:CYC:HBB1	1.54	1.38
3:G7:44:ARG:NH1	3:G7:145:ASP:HB2	1.08	1.38
2:H7:73:PRO:HB2	3:M7:58:ARG:NH2	1.38	1.38
2:W2:34:ARG:NH1	13:W2:201:CYC:C1C	1.85	1.37
3:C3:154:CYS:SG	13:C3:201:CYC:HAC2	1.63	1.37
7:I9:83:ARG:NH2	13:I9:1001:CYC:O2A	1.56	1.37
1:A4:195:ILE:CG1	7:V8:80:THR:HG22	1.52	1.37
2:O4:85:CYS:SG	13:O4:1001:CYC:H2C	1.64	1.37
3:K6:83:CYS:HB2	13:K6:201:CYC:CMB	1.54	1.37
2:B7:119:ILE:HD11	13:B7:1001:CYC:CMA	1.51	1.37
2:B2:119:ILE:HD11	13:B2:1001:CYC:CMA	1.51	1.37
3:C2:152:GLY:HA3	13:C2:202:CYC:CMD	1.53	1.37
3:K2:83:CYS:HB2	13:K2:201:CYC:CMB	1.55	1.37
3:K4:83:CYS:HB2	13:K4:201:CYC:C2B	1.51	1.37
3:C6:152:GLY:HA3	13:C6:202:CYC:CMD	1.53	1.37
3:C6:154:CYS:SG	13:C6:202:CYC:HAC2	1.63	1.37
7:A8:64:ASP:OD1	7:K9:69:GLY:C	1.66	1.37
7:b9:83:ARG:NH2	13:b9:1001:CYC:O2A	1.56	1.37
3:K3:83:CYS:HB2	13:K3:201:CYC:CMB	1.54	1.37
3:K4:83:CYS:HB2	13:K4:201:CYC:CMB	1.52	1.37
5:A5:205:LYS:CD	8:z9:63:TYR:HB3	1.53	1.37
2:Q6:31:ARG:NH2	2:Q6:35:ALA:CB	1.85	1.37
3:V6:154:CYS:SG	13:V6:201:CYC:C3B	2.13	1.37
7:X9:83:ARG:NH2	13:X9:1001:CYC:O2A	1.56	1.37
3:CA:68:ILE:CD1	13:DA:1001:CYC:O1A	1.71	1.37
3:VA:89:ILE:HG12	13:VA:201:CYC:CMC	1.54	1.37
2:J5:31:ARG:NH1	2:J5:103:GLY:CA	1.84	1.37
3:R2:87:MET:HE1	13:R2:1001:CYC:CBC	1.53	1.36
5:A5:205:LYS:NZ	8:z9:63:TYR:CA	1.82	1.36
7:j8:110:ILE:CD1	10:09:1117:TRP:CZ2	2.06	1.36
1:A1:209:THR:HG21	7:c8:67:SER:CA	1.56	1.36
2:W2:29:ARG:HG3	13:W2:203:CYC:OC	1.19	1.36
3:G3:44:ARG:NH1	3:G3:145:ASP:HB2	1.08	1.36
3:C7:152:GLY:HA3	13:C7:201:CYC:CMD	1.53	1.36
3:C7:154:CYS:SG	13:C7:201:CYC:HAC2	1.63	1.36
3:K7:83:CYS:HB2	13:K7:201:CYC:CMB	1.54	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N9:83:ARG:NH2	13:N9:1001:CYC:O2A	1.56	1.36
5:A2:229:GLN:HA	7:X9:66:VAL:CG1	1.54	1.36
3:R2:83:CYS:CB	13:R2:1001:CYC:HAC2	1.56	1.36
2:W2:29:ARG:CG	13:W2:203:CYC:OC	1.73	1.36
9:b8:21:ARG:NH2	10:19:963:THR:HB	1.39	1.36
7:A9:83:ARG:NH2	13:A9:1001:CYC:O2A	1.56	1.36
7:y9:83:ARG:NH2	13:y9:1001:CYC:O2A	1.56	1.36
2:O1:85:CYS:SG	13:O1:1001:CYC:H2C	1.64	1.36
3:V2:154:CYS:SG	13:V2:201:CYC:C3B	2.13	1.36
5:A6:222:LEU:CD2	7:I9:82:LEU:HD13	1.56	1.36
3:P6:83:CYS:CB	13:P6:201:CYC:HAC2	1.53	1.36
7:s9:83:ARG:NH2	13:s9:1001:CYC:O2A	1.56	1.36
3:VA:58:ARG:NH2	13:WA:1001:CYC:O2D	1.58	1.36
3:V1:127:SER:CB	13:V1:202:CYC:HBB1	1.54	1.35
3:T4:154:CYS:SG	13:T4:201:CYC:H2C	1.64	1.35
3:I6:58:ARG:NH2	2:J6:73:PRO:HB2	1.40	1.35
7:R9:83:ARG:NH2	13:R9:1001:CYC:O2A	1.56	1.35
3:T1:82:ALA:CB	13:T1:202:CYC:CAA	2.03	1.35
2:B3:119:ILE:CD1	13:B3:1001:CYC:HMA1	1.57	1.35
3:R6:87:MET:HE1	13:R6:1001:CYC:CBC	1.53	1.35
8:o8:88:TYR:OH	13:o8:1001:CYC:HBB1	1.19	1.35
7:C9:83:ARG:NH2	13:C9:1001:CYC:O2A	1.56	1.35
3:I2:58:ARG:NH2	2:J2:73:PRO:HB2	1.40	1.35
2:Y5:34:ARG:HD3	2:Y5:150:GLU:OE2	1.24	1.35
3:P6:44:ARG:NH2	3:P6:149:ILE:CG1	1.85	1.35
7:T9:83:ARG:NH2	13:T9:1001:CYC:O2A	1.56	1.35
13:AA:304:CYC:OB	3:KA:74:ALA:HB2	1.25	1.35
2:Q2:31:ARG:HH21	2:Q2:35:ALA:CB	1.38	1.35
2:W2:34:ARG:NH1	13:W2:201:CYC:C2C	1.74	1.35
3:T4:82:ALA:CB	13:T4:202:CYC:CAA	2.03	1.35
3:E5:154:CYS:SG	13:E5:201:CYC:C2C	2.14	1.35
2:H6:31:ARG:NH2	2:H6:35:ALA:HB1	1.05	1.34
3:Z6:83:CYS:CB	13:Z6:202:CYC:HAC2	1.57	1.34
3:EA:154:CYS:SG	13:EA:201:CYC:C2C	2.14	1.34
4:NA:92:GLN:NE2	4:NA:121:TYR:CD1	1.82	1.34
13:UA:1001:CYC:O1A	3:ZA:68:ILE:CD1	1.75	1.34
3:I3:58:ARG:NH2	2:J3:73:PRO:HB2	1.40	1.34
2:J5:31:ARG:NH1	2:J5:103:GLY:HA3	1.07	1.34
13:U5:1001:CYC:O1A	3:Z5:68:ILE:CD1	1.74	1.34
3:V5:58:ARG:NH2	13:W5:1001:CYC:O2D	1.58	1.34
2:B6:119:ILE:CD1	13:B6:1001:CYC:HMA1	1.57	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:t9:63:TYR:CB	5:AA:205:LYS:NZ	1.90	1.34
7:w9:66:VAL:HG12	5:AA:230:GLY:N	1.42	1.34
2:Q5:31:ARG:NH1	2:Q5:103:GLY:HA3	1.40	1.34
7:f9:83:ARG:NH2	13:f9:1001:CYC:O2A	1.56	1.34
2:L1:51:ARG:NH2	3:C3:148:GLY:HA2	1.43	1.34
2:H2:73:PRO:HB2	3:M2:58:ARG:NH2	1.38	1.34
3:Z2:83:CYS:CB	13:Z2:202:CYC:HAC2	1.57	1.34
2:H6:73:PRO:HB2	3:M6:58:ARG:NH2	1.38	1.34
7:E9:83:ARG:NH2	13:E9:1001:CYC:O2A	1.56	1.34
7:P9:83:ARG:NH2	13:P9:1001:CYC:O2A	1.56	1.34
6:A7:13:GLN:CG	6:A7:119:TYR:HE2	1.40	1.34
3:C1:78:ARG:NH1	13:C1:301:CYC:O1D	1.60	1.33
13:B5:1001:CYC:O1A	3:G5:68:ILE:CD1	1.75	1.33
13:N5:301:CYC:CBC	3:R5:87:MET:HE3	1.57	1.33
3:C6:93:TYR:CG	3:C6:110:CYS:SG	2.20	1.33
13:K8:1001:CYC:OB	9:N8:21:ARG:CG	1.75	1.33
13:NA:301:CYC:CBC	3:RA:87:MET:HE3	1.57	1.33
3:GA:68:ILE:CD1	13:GA:1001:CYC:O1A	1.75	1.33
8:s8:144:ALA:HB3	8:O9:29:LYS:NZ	1.01	1.33
7:G9:83:ARG:NH2	13:G9:1001:CYC:O2A	1.56	1.33
7:o9:83:ARG:NH2	13:o9:1001:CYC:O2A	1.56	1.33
3:C3:93:TYR:CG	3:C3:110:CYS:SG	2.20	1.33
2:H3:73:PRO:HB2	3:M3:58:ARG:NH2	1.38	1.33
7:q9:83:ARG:NH2	13:q9:1001:CYC:O2A	1.56	1.33
3:P2:83:CYS:HB2	13:P2:201:CYC:CAC	1.59	1.33
2:Y2:31:ARG:HH21	2:Y2:35:ALA:CB	1.35	1.33
6:A3:13:GLN:CG	6:A3:119:TYR:HE2	1.40	1.33
5:A5:241:ILE:CD1	7:A9:78:THR:HG23	0.86	1.33
3:E5:39:LEU:HD23	13:E5:201:CYC:CBB	1.52	1.33
3:V5:89:ILE:HG12	13:V5:201:CYC:CMC	1.54	1.33
3:R6:83:CYS:CB	13:R6:1001:CYC:HAC2	1.56	1.33
3:V6:150:THR:OG1	13:V6:201:CYC:CAA	1.77	1.33
9:G8:31:LEU:HD12	10:09:578:GLU:OE2	1.23	1.33
8:M8:82:CYS:SG	13:M8:1001:CYC:HAC2	1.69	1.33
3:T1:128:VAL:HG22	13:T1:202:CYC:CMB	1.60	1.32
4:N5:54:ARG:HG3	4:N5:59:GLU:OE2	1.21	1.32
9:G8:36:ASN:ND2	10:09:586:ARG:HH22	1.25	1.32
8:W8:82:CYS:SG	13:W8:1001:CYC:HAC2	1.69	1.32
3:P6:83:CYS:HB2	13:P6:201:CYC:CAC	1.59	1.32
3:C7:93:TYR:CG	3:C7:110:CYS:SG	2.20	1.32
8:m8:144:ALA:HB3	8:e9:29:LYS:NZ	1.02	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:241:ILE:CD1	7:A9:78:THR:CG2	1.77	1.32
4:N6:10:LEU:HD22	4:N6:169:PHE:CE1	1.65	1.32
8:u8:119:SER:CB	10:19:1114:LYS:HE3	1.57	1.32
3:EA:39:LEU:HD23	13:EA:201:CYC:CBB	1.52	1.32
2:QA:31:ARG:NH1	2:QA:103:GLY:HA3	1.40	1.32
3:C2:93:TYR:CG	3:C2:110:CYS:SG	2.20	1.32
7:O8:20:PRO:HB3	7:u9:151:SER:OG	1.27	1.32
3:R2:154:CYS:SG	13:U2:201:CYC:CAC	2.17	1.32
2:J5:32:TYR:CE1	3:K5:35:GLY:HA3	1.63	1.32
2:B7:119:ILE:CD1	13:B7:1001:CYC:HMA1	1.57	1.32
3:I7:58:ARG:NH2	2:J7:73:PRO:HB2	1.40	1.32
8:I8:82:CYS:SG	13:I8:1001:CYC:HAC2	1.69	1.32
8:d8:82:CYS:SG	13:d8:1001:CYC:HAC2	1.69	1.32
2:JA:32:TYR:CE1	3:KA:35:GLY:HA3	1.62	1.32
3:V2:150:THR:OG1	13:V2:201:CYC:CAA	1.77	1.31
7:L8:25:ARG:CD	7:Z9:25:ARG:NH1	1.93	1.31
8:P8:82:CYS:SG	13:P8:1001:CYC:HAC2	1.69	1.31
8:a8:82:CYS:SG	13:b8:1001:CYC:HAC2	1.69	1.31
8:f8:82:CYS:SG	13:f8:1001:CYC:HAC2	1.69	1.31
8:q8:82:CYS:SG	13:q8:1001:CYC:HAC2	1.69	1.31
2:B2:119:ILE:CD1	13:B2:1001:CYC:HMA1	1.57	1.31
3:G3:34:GLU:OE2	3:G3:157:LEU:CD2	1.78	1.31
3:T4:128:VAL:HG22	13:T4:202:CYC:CMB	1.60	1.31
8:Y8:82:CYS:SG	13:Y8:1001:CYC:HAC2	1.69	1.31
4:N2:10:LEU:HD22	4:N2:169:PHE:CE1	1.65	1.31
3:C4:78:ARG:NH1	13:C4:301:CYC:O1D	1.60	1.31
5:A5:57:SER:CB	13:A5:303:CYC:O2A	1.76	1.31
5:A6:246:ALA:CB	7:C8:79:ALA:CB	2.09	1.31
8:K8:82:CYS:SG	13:K8:1001:CYC:HAC2	1.69	1.31
8:h8:82:CYS:SG	13:h8:1001:CYC:HAC2	1.69	1.31
8:m8:144:ALA:CB	8:e9:29:LYS:NZ	1.91	1.31
8:s8:84:ARG:NH1	13:s8:1001:CYC:O2A	1.64	1.31
8:u8:119:SER:HB2	10:19:1114:LYS:CE	1.57	1.31
2:YA:34:ARG:HD3	2:YA:150:GLU:OE2	1.24	1.31
5:A5:178:ARG:NH2	13:A5:303:CYC:O2D	1.63	1.31
8:W8:84:ARG:NH1	13:W8:1001:CYC:O2A	1.64	1.31
5:A5:39:SER:OG	3:M5:2:THR:N	1.62	1.31
3:R5:154:CYS:SG	13:R5:201:CYC:CAC	2.16	1.31
8:P8:84:ARG:NH1	13:P8:1001:CYC:O2A	1.64	1.31
8:s8:82:CYS:SG	13:s8:1001:CYC:HAC2	1.69	1.31
5:AA:57:SER:CB	13:AA:303:CYC:O2A	1.76	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G2:34:GLU:OE2	3:G2:157:LEU:CD2	1.78	1.30
3:G6:34:GLU:OE2	3:G6:157:LEU:CD2	1.78	1.30
8:k8:82:CYS:SG	13:k8:1001:CYC:HAC2	1.69	1.30
8:u8:82:CYS:SG	13:19:1201:CYC:HAC2	1.69	1.30
3:P1:89:ILE:CG2	13:P1:201:CYC:HBB3	1.59	1.30
3:T1:127:SER:HB2	13:T1:202:CYC:CBB	1.60	1.30
6:A3:13:GLN:HB2	6:A3:119:TYR:CE2	1.66	1.30
3:R6:154:CYS:SG	13:U6:201:CYC:CAC	2.17	1.30
2:Y6:31:ARG:NH2	2:Y6:35:ALA:HB2	1.42	1.30
8:F8:82:CYS:SG	13:F8:1001:CYC:HAC2	1.69	1.30
7:X8:83:ARG:NH1	13:X8:1001:CYC:O2A	1.65	1.30
8:k8:84:ARG:NH1	13:k8:1001:CYC:O2A	1.64	1.30
8:o8:115:GLU:HB3	10:09:1114:LYS:NZ	0.99	1.30
8:s8:108:ARG:O	10:19:1099:ALA:HB1	1.30	1.30
3:RA:154:CYS:SG	13:RA:201:CYC:CAC	2.16	1.30
8:f8:84:ARG:NH1	13:f8:1001:CYC:O2A	1.64	1.30
9:i8:24:GLN:HG2	10:09:1087:ASP:OD1	1.27	1.30
3:P4:89:ILE:CG2	13:P4:201:CYC:HBB3	1.59	1.30
3:R5:58:ARG:NH2	13:S5:1001:CYC:O2D	1.62	1.30
3:R5:68:ILE:HD13	13:S5:1001:CYC:O1A	1.15	1.30
3:G7:34:GLU:CG	3:G7:157:LEU:HD21	1.62	1.30
7:H8:64:ASP:OD1	7:Z9:69:GLY:C	1.73	1.30
8:M8:84:ARG:NH1	13:M8:1001:CYC:O2A	1.64	1.30
8:R8:82:CYS:SG	13:R8:1001:CYC:HAC2	1.69	1.30
8:T8:82:CYS:SG	13:T8:1001:CYC:HAC2	1.69	1.30
8:T8:84:ARG:NH1	13:T8:1001:CYC:O2A	1.64	1.30
2:L1:51:ARG:CZ	3:C3:148:GLY:HA2	1.60	1.30
6:A3:106:VAL:HG22	6:A3:131:ILE:CD1	1.61	1.30
2:L4:51:ARG:NH2	3:C7:148:GLY:C	1.90	1.30
8:I8:84:ARG:NH1	13:I8:1001:CYC:O2A	1.64	1.30
8:m8:82:CYS:SG	13:09:1201:CYC:HAC2	1.69	1.30
2:LA:32:TYR:CE1	3:MA:35:GLY:CA	2.08	1.30
3:E1:154:CYS:SG	13:E1:202:CYC:HBC2	1.73	1.29
3:P1:40:ASP:OD2	13:P1:202:CYC:NA	1.65	1.29
3:X2:58:ARG:NH2	2:Y2:73:PRO:CB	1.95	1.29
3:G3:34:GLU:CG	3:G3:157:LEU:HD21	1.62	1.29
3:T4:127:SER:HB2	13:T4:202:CYC:CBB	1.61	1.29
8:B8:82:CYS:SG	13:B8:1001:CYC:HAC2	1.69	1.29
8:D8:82:CYS:SG	13:D8:1001:CYC:HAC2	1.69	1.29
7:E8:83:ARG:NH1	13:E8:1001:CYC:O2A	1.65	1.29
9:b8:45:GLN:NE2	13:b8:1001:CYC:OB	1.63	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:c8:83:ARG:NH1	13:c8:1001:CYC:O2A	1.65	1.29
7:g8:83:ARG:NH1	13:g8:1001:CYC:O2A	1.65	1.29
3:M1:26:ASP:CG	2:J3:51:ARG:CZ	2.04	1.29
3:G2:34:GLU:CG	3:G2:157:LEU:HD21	1.62	1.29
2:L5:32:TYR:CE1	3:M5:35:GLY:CA	2.08	1.29
3:V5:154:CYS:SG	13:V5:202:CYC:CMB	2.21	1.29
7:L8:83:ARG:NH1	13:L8:1001:CYC:O2A	1.65	1.29
1:A1:195:ILE:CG1	7:c8:80:THR:HG22	1.62	1.29
1:A4:195:ILE:HG21	7:V8:80:THR:CG2	1.46	1.29
2:L4:51:ARG:NH1	3:C7:148:GLY:CA	1.95	1.29
8:F8:84:ARG:NH1	13:F8:1001:CYC:O2A	1.64	1.29
7:H8:83:ARG:NH1	13:H8:1001:CYC:O2A	1.65	1.29
7:Z8:56:ASP:OD2	7:I9:74:GLY:HA2	1.19	1.29
2:LA:32:TYR:CD1	3:MA:35:GLY:HA3	1.66	1.29
2:Y2:119:ILE:CD1	13:Y2:201:CYC:HMA1	1.63	1.29
1:A4:195:ILE:CD1	7:V8:80:THR:CG2	2.09	1.29
5:A5:223:ALA:HB1	7:q9:78:THR:CG2	1.60	1.29
2:U6:32:TYR:CE2	3:V6:35:GLY:HA3	1.68	1.29
8:Y8:84:ARG:NH1	13:Y8:1001:CYC:O2A	1.64	1.29
7:Z8:83:ARG:NH1	13:Z8:1001:CYC:O2A	1.65	1.29
5:AA:178:ARG:NH2	13:AA:303:CYC:O2D	1.63	1.29
3:RA:58:ARG:NH2	13:SA:1001:CYC:O2D	1.62	1.29
2:B1:83:SER:CB	8:d8:27:LYS:CG	2.10	1.29
2:W2:31:ARG:NH2	2:W2:35:ALA:HB2	1.45	1.29
1:A4:129:ILE:CG2	13:C4:301:CYC:O1A	1.80	1.29
2:F4:22:ASN:ND2	2:L4:150:GLU:OE1	1.63	1.29
6:A7:13:GLN:CB	6:A7:119:TYR:CE2	2.14	1.29
8:u8:84:ARG:NH1	13:19:1201:CYC:O2A	1.64	1.29
6:A3:13:GLN:CB	6:A3:119:TYR:CE2	2.14	1.28
4:N5:62:LEU:HD11	4:N5:72:PHE:CB	1.63	1.28
3:X6:83:CYS:HB2	13:X6:201:CYC:CAC	1.62	1.28
6:A7:106:VAL:HG22	6:A7:131:ILE:CD1	1.61	1.28
7:O8:83:ARG:NH1	13:O8:1001:CYC:O2A	1.65	1.28
8:m8:84:ARG:NH1	13:09:1201:CYC:O2A	1.64	1.28
3:PA:68:ILE:HD13	13:PA:203:CYC:O1A	1.24	1.28
3:X2:83:CYS:HB2	13:X2:201:CYC:CAC	1.62	1.28
3:E4:154:CYS:SG	13:E4:202:CYC:HBC2	1.72	1.28
2:F4:136:HIS:CE1	2:F4:140:ASN:ND2	2.01	1.28
4:N6:63:ARG:CB	13:V6:202:CYC:O2D	1.81	1.28
7:S8:83:ARG:NH1	13:S8:1001:CYC:O2A	1.65	1.28
8:q8:84:ARG:NH1	13:q8:1001:CYC:O2A	1.64	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AA:301:CYC:HBC1	3:CA:87:MET:CE	1.62	1.28
2:F1:22:ASN:ND2	2:L1:150:GLU:OE1	1.63	1.28
3:T1:127:SER:CB	13:T1:202:CYC:CBB	2.09	1.28
2:L5:32:TYR:CD1	3:M5:35:GLY:HA3	1.66	1.28
3:G7:34:GLU:OE2	3:G7:157:LEU:CD2	1.78	1.28
8:B8:84:ARG:NH1	13:B8:1001:CYC:O2A	1.64	1.28
9:b8:24:GLN:NE2	10:19:963:THR:CA	1.86	1.28
7:l8:83:ARG:NH1	13:l8:1001:CYC:O2A	1.65	1.28
3:P4:40:ASP:OD2	13:P4:202:CYC:NA	1.65	1.28
3:T4:127:SER:CB	13:T4:202:CYC:CBB	2.09	1.28
3:M6:87:MET:CE	13:N6:301:CYC:CBC	1.99	1.28
2:W6:31:ARG:NH2	2:W6:35:ALA:HB2	1.45	1.28
8:D8:84:ARG:NH1	13:D8:1001:CYC:O2A	1.64	1.28
7:e8:83:ARG:NH1	13:e8:1001:CYC:O2A	1.65	1.28
2:F1:136:HIS:CE1	2:F1:140:ASN:ND2	2.01	1.28
2:H2:31:ARG:NH1	2:H2:103:GLY:HA2	1.49	1.28
2:F5:62:GLN:CD	3:G7:71:GLY:HA3	1.57	1.28
3:P5:68:ILE:HD13	13:P5:203:CYC:O1A	1.24	1.28
2:Q6:31:ARG:HH21	2:Q6:35:ALA:CB	1.38	1.28
3:X6:58:ARG:NH2	2:Y6:73:PRO:CB	1.95	1.28
13:A7:301:CYC:HBC1	3:C7:87:MET:CE	1.64	1.28
4:NA:54:ARG:HG3	4:NA:59:GLU:OE2	1.21	1.28
3:XA:68:ILE:HD13	13:YA:201:CYC:O1A	1.24	1.28
1:A4:194:ASP:O	7:V8:83:ARG:HD3	1.33	1.27
2:B4:87:ARG:HB2	8:W8:23:ALA:CB	1.62	1.27
5:A5:205:LYS:HZ3	8:z9:63:TYR:CB	1.47	1.27
1:A1:67:ASN:HD21	3:K1:92:ARG:NH1	1.32	1.27
3:P1:68:ILE:HD13	13:Q1:201:CYC:O1A	1.27	1.27
4:N2:63:ARG:CB	13:V2:202:CYC:O2D	1.81	1.27
2:U2:32:TYR:CE2	3:V2:35:GLY:HA3	1.68	1.27
3:X5:68:ILE:HD13	13:Y5:201:CYC:O1A	1.24	1.27
3:E6:119:GLN:NE2	8:a8:16:GLN:HE21	1.30	1.27
6:A7:97:ALA:CB	6:A7:136:LEU:HD11	1.64	1.27
7:J8:83:ARG:NH1	13:J8:1001:CYC:O2A	1.65	1.27
9:b8:24:GLN:NE2	10:19:963:THR:C	1.91	1.27
7:p8:83:ARG:NH1	13:p8:1001:CYC:O2A	1.65	1.27
3:M1:40:ASP:OD2	13:M1:202:CYC:NA	1.65	1.27
3:E3:44:ARG:NH2	3:E3:149:ILE:HD12	1.49	1.27
6:A7:13:GLN:HB2	6:A7:119:TYR:CE2	1.66	1.27
7:j8:83:ARG:NH1	13:j8:1001:CYC:O2A	1.65	1.27
5:AA:179:TYR:CZ	13:AA:303:CYC:O1D	1.87	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P4:68:ILE:HD13	13:Q4:201:CYC:O1A	1.27	1.27
5:A5:239:PHE:CD2	7:A9:52:LYS:HG2	1.68	1.27
8:K8:84:ARG:NH1	13:K8:1001:CYC:O2A	1.64	1.27
8:a8:84:ARG:NH1	13:b8:1001:CYC:O2A	1.64	1.27
7:t8:83:ARG:NH1	13:t8:1001:CYC:O2A	1.65	1.27
5:A5:179:TYR:CZ	13:A5:303:CYC:O1D	1.87	1.27
5:A5:231:ASN:OD1	7:A9:67:SER:HB3	1.23	1.27
3:G6:34:GLU:CG	3:G6:157:LEU:HD21	1.62	1.27
13:A3:301:CYC:HBC1	3:C3:87:MET:CE	1.64	1.26
3:M4:40:ASP:OD2	13:M4:202:CYC:NA	1.65	1.26
5:A5:57:SER:HB2	13:A5:303:CYC:O2A	1.12	1.26
7:Q8:83:ARG:NH1	13:Q8:1001:CYC:O2A	1.65	1.26
7:p8:106:GLU:OE1	10:19:1118:SER:HB2	1.30	1.26
5:AA:57:SER:HB2	13:AA:303:CYC:O2A	1.12	1.26
3:RA:44:ARG:NH1	3:RA:145:ASP:OD1	1.66	1.26
3:VA:154:CYS:SG	13:VA:202:CYC:CMB	2.21	1.26
3:E6:44:ARG:NH2	3:E6:149:ILE:HD12	1.49	1.26
7:V8:83:ARG:NH1	13:V8:1001:CYC:O2A	1.65	1.26
7:r8:83:ARG:NH1	13:r8:1001:CYC:O2A	1.65	1.26
2:U6:32:TYR:HE2	3:V6:35:GLY:CA	1.49	1.26
3:Z6:40:ASP:OD1	13:Z6:201:CYC:HHD	1.29	1.26
7:A8:83:ARG:NH1	13:A8:1001:CYC:O2A	1.65	1.26
8:R8:84:ARG:NH1	13:R8:1001:CYC:O2A	1.64	1.26
7:n8:83:ARG:NH1	13:n8:1001:CYC:O2A	1.65	1.26
3:XA:93:TYR:CE2	13:XA:201:CYC:HBB1	1.69	1.26
3:P2:44:ARG:NH2	3:P2:149:ILE:CG1	1.85	1.26
5:A5:201:PHE:HE1	8:z9:63:TYR:CD1	1.53	1.26
4:NA:62:LEU:HD11	4:NA:72:PHE:CB	1.63	1.26
3:RA:151:LYS:NZ	13:RA:201:CYC:OC	1.68	1.26
1:A1:129:ILE:CG2	13:C1:301:CYC:O1A	1.80	1.26
13:A5:301:CYC:HBC1	3:C5:87:MET:CE	1.62	1.26
3:R5:44:ARG:NH1	3:R5:145:ASP:OD1	1.66	1.26
3:E7:44:ARG:NH2	3:E7:149:ILE:HD12	1.49	1.26
7:E8:25:ARG:HD3	7:K9:25:ARG:NH1	1.49	1.26
9:49:20:GLN:O	8:D9:88:TYR:OH	1.54	1.26
3:G4:83:CYS:CB	13:G4:202:CYC:HAC2	1.64	1.25
3:X5:93:TYR:CE2	13:X5:201:CYC:HBB1	1.69	1.25
7:O8:64:ASP:OD1	7:w9:69:GLY:C	1.79	1.25
3:PA:89:ILE:CG1	13:PA:201:CYC:HBB3	1.66	1.25
5:A2:246:ALA:CB	7:J8:79:ALA:CB	2.13	1.25
3:E2:44:ARG:NH2	3:E2:149:ILE:HD12	1.49	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:231:ASN:OD1	7:A9:67:SER:CB	1.84	1.25
5:A5:239:PHE:CD2	7:A9:52:LYS:CG	2.19	1.25
2:D6:34:ARG:HH12	2:D6:146:GLN:NE2	1.34	1.25
8:h8:84:ARG:NH1	13:h8:1001:CYC:O2A	1.64	1.25
2:B4:87:ARG:CB	8:W8:23:ALA:HB2	1.66	1.25
3:P4:93:TYR:CE2	13:P4:201:CYC:HBB1	1.71	1.25
2:Y6:119:ILE:CD1	13:Y6:201:CYC:HMA1	1.63	1.25
3:M7:87:MET:CE	13:N7:301:CYC:CBC	1.99	1.25
8:t9:63:TYR:CD1	5:AA:201:PHE:HE1	1.53	1.25
3:RA:68:ILE:HD13	13:SA:1001:CYC:O1A	1.15	1.25
2:F5:62:GLN:NE2	3:G7:71:GLY:HA3	1.51	1.25
3:V5:68:ILE:CD1	13:W5:1001:CYC:O1A	1.84	1.25
13:D8:1001:CYC:OB	9:G8:21:ARG:HG2	1.12	1.25
6:A3:97:ALA:CB	6:A3:136:LEU:CD1	2.14	1.25
3:P5:89:ILE:CG1	13:P5:201:CYC:HBB3	1.66	1.25
6:A7:14:ASN:CA	13:E7:201:CYC:CMA	1.94	1.25
7:C8:83:ARG:NH1	13:C8:1001:CYC:O2A	1.65	1.25
8:s8:144:ALA:CB	8:O9:29:LYS:HZ2	1.37	1.25
4:NA:62:LEU:HD21	4:NA:72:PHE:CG	1.72	1.25
3:K1:68:ILE:HD13	13:L1:201:CYC:O1A	1.37	1.25
3:V1:83:CYS:SG	13:V1:202:CYC:C1B	2.25	1.25
6:A3:97:ALA:CB	6:A3:136:LEU:HD11	1.64	1.25
3:V4:83:CYS:SG	13:V4:202:CYC:C1B	2.25	1.25
3:GA:68:ILE:HD13	13:GA:1001:CYC:O1A	1.07	1.25
3:G1:83:CYS:CB	13:G1:202:CYC:HAC2	1.64	1.24
2:Y2:31:ARG:NH2	2:Y2:35:ALA:HB2	1.42	1.24
7:g8:56:ASP:OD2	7:X9:74:GLY:HA2	1.35	1.24
2:D3:31:ARG:HH21	2:D3:35:ALA:CB	1.51	1.24
2:B7:119:ILE:CD1	13:B7:1001:CYC:CMA	2.13	1.24
2:U2:32:TYR:HE2	3:V2:35:GLY:CA	1.49	1.24
3:Z2:40:ASP:OD1	13:Z2:201:CYC:HHD	1.29	1.24
2:B3:119:ILE:CD1	13:B3:1001:CYC:CMA	2.13	1.24
1:A4:67:ASN:HD21	3:K4:92:ARG:NH1	1.32	1.24
3:E6:85:ARG:CZ	13:E6:201:CYC:O2A	1.86	1.24
2:D7:34:ARG:HH12	2:D7:146:GLN:NE2	1.34	1.24
8:q8:84:ARG:NH1	10:19:1059:ASN:ND2	1.85	1.24
9:39:23:LEU:HD12	8:l9:88:TYR:CE2	1.72	1.24
3:G1:154:CYS:SG	13:G1:201:CYC:CBC	2.26	1.24
2:B2:86:ALA:HB3	7:k9:60:GLN:CG	1.68	1.24
2:D2:31:ARG:HH21	2:D2:35:ALA:CB	1.51	1.24
5:A5:228:ASN:O	7:q9:66:VAL:HG11	1.32	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:97:ALA:CB	6:A7:136:LEU:CD1	2.14	1.24
8:o8:15:VAL:HG13	10:09:941:ARG:O	1.10	1.24
5:A5:239:PHE:HD2	7:A9:52:LYS:CG	1.49	1.23
7:w9:59:PHE:HB3	5:AA:228:ASN:ND2	1.53	1.23
3:E1:154:CYS:SG	13:E1:202:CYC:CBC	2.26	1.23
2:D2:34:ARG:HH12	2:D2:146:GLN:NE2	1.34	1.23
6:A3:13:GLN:HG2	6:A3:119:TYR:CE2	1.73	1.23
3:E3:85:ARG:CZ	13:E3:201:CYC:O2A	1.86	1.23
2:D7:31:ARG:HH21	2:D7:35:ALA:CB	1.51	1.23
3:VA:68:ILE:CD1	13:WA:1001:CYC:O1A	1.84	1.23
1:A1:212:PHE:CD1	7:l8:66:VAL:O	1.92	1.23
3:P1:93:TYR:CE2	13:P1:201:CYC:HBB1	1.71	1.23
2:D3:34:ARG:HH12	2:D3:146:GLN:NE2	1.34	1.23
3:G4:154:CYS:SG	13:G4:201:CYC:CBC	2.26	1.23
3:T4:154:CYS:SG	13:T4:201:CYC:HBC2	1.79	1.23
5:A5:241:ILE:HG21	7:A9:82:LEU:CD1	1.66	1.23
6:A7:13:GLN:HG2	6:A7:119:TYR:CE2	1.73	1.23
7:p8:9:VAL:HG21	10:19:1024:ARG:NH2	1.52	1.23
2:L1:40:GLU:HG3	2:J3:140:ASN:ND2	1.51	1.23
3:R5:151:LYS:NZ	13:R5:201:CYC:OC	1.68	1.23
3:E4:154:CYS:SG	13:E4:202:CYC:CBC	2.26	1.23
3:G4:83:CYS:HB2	13:G4:202:CYC:CAC	1.69	1.23
7:A8:20:PRO:HB3	7:I9:151:SER:OG	1.20	1.23
7:O8:68:PRO:HG2	5:AA:231:ASN:ND2	1.51	1.23
8:o8:15:VAL:CG1	10:09:941:ARG:O	1.87	1.23
3:G1:83:CYS:HB2	13:G1:202:CYC:CAC	1.69	1.22
3:T1:154:CYS:SG	13:T1:201:CYC:HBC2	1.79	1.22
3:C2:83:CYS:CB	13:C2:201:CYC:HAC2	1.67	1.22
2:B4:86:ALA:CB	8:W8:26:GLU:CG	2.12	1.22
2:F4:22:ASN:HD21	2:L4:150:GLU:CD	1.47	1.22
13:A5:304:CYC:OB	3:K5:74:ALA:HB2	1.25	1.22
4:N5:62:LEU:HD21	4:N5:72:PHE:CG	1.72	1.22
2:O6:34:ARG:NH2	13:X6:202:CYC:HAC2	1.52	1.22
9:G8:30:LYS:NZ	10:09:657:GLU:OE2	1.71	1.22
8:I8:88:TYR:OH	10:19:569:VAL:HG22	1.36	1.22
3:V2:58:ARG:NH2	2:W2:73:PRO:CB	2.03	1.22
3:K4:68:ILE:CD1	13:L4:201:CYC:O1A	1.87	1.22
5:A5:64:PHE:CZ	2:J5:18:ARG:HD2	1.73	1.22
3:C6:83:CYS:CB	13:C6:201:CYC:HAC2	1.67	1.22
3:E6:119:GLN:CD	8:a8:16:GLN:NE2	1.96	1.22
3:E7:85:ARG:NH1	13:E7:201:CYC:O2A	1.73	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C8:9:VAL:HG11	10:09:540:PHE:CZ	1.72	1.22
9:i8:24:GLN:CG	10:09:1087:ASP:OD1	1.85	1.22
13:s8:1001:CYC:O2D	10:19:949:VAL:N	1.72	1.22
3:E2:85:ARG:CZ	13:E2:201:CYC:O2A	1.86	1.22
3:PA:68:ILE:HD13	13:PA:203:CYC:CGA	1.69	1.22
6:A3:14:ASN:CA	13:E3:201:CYC:CMA	1.94	1.22
1:A4:195:ILE:HD12	8:a8:63:TYR:CE1	1.74	1.22
2:Q5:32:TYR:CE1	3:R5:35:GLY:HA3	1.74	1.22
8:o8:66:ILE:CG2	10:09:1128:ARG:HD2	1.70	1.22
7:w9:59:PHE:CB	5:AA:228:ASN:HD22	1.52	1.22
3:XA:154:CYS:SG	13:XA:202:CYC:HMB2	1.78	1.22
1:A1:195:ILE:CD1	7:c8:80:THR:CG2	2.18	1.22
2:B2:73:PRO:HB2	3:G2:58:ARG:NH2	0.90	1.22
2:O2:34:ARG:NH2	13:W2:203:CYC:HAC2	1.52	1.22
2:B3:73:PRO:HB2	3:G3:58:ARG:NH2	0.90	1.22
3:G3:71:GLY:CA	2:FA:62:GLN:CD	2.13	1.22
5:A5:75:LYS:HE3	13:A5:304:CYC:CGD	1.68	1.22
3:P5:68:ILE:HD13	13:P5:203:CYC:CGA	1.69	1.22
3:E7:85:ARG:CZ	13:E7:201:CYC:O2A	1.86	1.22
9:U8:30:LYS:HD2	10:09:782:GLU:OE2	1.36	1.22
2:B2:119:ILE:CD1	13:B2:1001:CYC:CMA	2.13	1.21
2:B6:73:PRO:HB2	3:G6:58:ARG:NH2	0.90	1.21
2:F1:22:ASN:HD21	2:L1:150:GLU:CD	1.48	1.21
2:L1:40:GLU:CG	2:J3:140:ASN:HD21	1.53	1.21
2:O1:85:CYS:CA	13:O1:1001:CYC:HAC2	1.69	1.21
3:C5:68:ILE:HD13	13:D5:1001:CYC:O1A	1.05	1.21
2:D6:31:ARG:HH21	2:D6:35:ALA:CB	1.51	1.21
2:B7:73:PRO:HB2	3:G7:58:ARG:NH2	0.90	1.21
5:AA:64:PHE:CZ	2:JA:18:ARG:HD2	1.73	1.21
2:B2:86:ALA:CB	7:k9:60:GLN:CG	2.17	1.21
3:Z2:87:MET:CE	13:Z2:202:CYC:CBC	1.85	1.21
2:O4:85:CYS:CA	13:O4:1001:CYC:HAC2	1.69	1.21
3:X5:154:CYS:SG	13:X5:202:CYC:HMB2	1.78	1.21
2:O6:119:ILE:HD11	13:O6:1001:CYC:CMA	1.70	1.21
3:T6:154:CYS:SG	13:T6:201:CYC:CBC	2.29	1.21
3:Z6:83:CYS:HB2	13:Z6:202:CYC:CAC	1.71	1.21
2:QA:32:TYR:CE1	3:RA:35:GLY:HA3	1.74	1.21
3:K1:68:ILE:CD1	13:L1:201:CYC:O1A	1.87	1.20
2:O2:119:ILE:HD11	13:O2:1001:CYC:CMA	1.70	1.20
2:L4:51:ARG:HH12	3:C7:148:GLY:CA	1.49	1.20
13:A5:301:CYC:CBC	3:C5:87:MET:HE3	1.71	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A8:64:ASP:OD1	7:K9:69:GLY:CA	1.89	1.20
8:f8:92:TYR:OH	9:i8:21:ARG:HD3	1.09	1.20
3:CA:68:ILE:HD13	13:DA:1001:CYC:O1A	1.05	1.20
3:XA:87:MET:HE3	13:XA:201:CYC:CBC	1.71	1.20
6:A3:97:ALA:HB1	6:A3:136:LEU:CD1	1.71	1.20
6:A3:100:ASN:HD22	6:A3:108:ILE:CD1	1.54	1.20
5:A5:205:LYS:NZ	8:z9:63:TYR:CB	2.03	1.20
3:E6:85:ARG:NH1	13:E6:201:CYC:O2A	1.73	1.20
6:A7:100:ASN:HD22	6:A7:108:ILE:CD1	1.54	1.20
13:Y8:1001:CYC:OB	9:b8:21:ARG:HG2	1.06	1.20
8:o8:88:TYR:CZ	13:o8:1001:CYC:HBB1	1.76	1.20
5:AA:59:HIS:HD2	13:AA:303:CYC:O1A	1.24	1.20
1:A1:67:ASN:ND2	3:K1:92:ARG:HH12	1.40	1.20
3:C1:152:GLY:HA3	13:C1:302:CYC:HMD1	1.23	1.20
3:K1:154:CYS:SG	13:K1:202:CYC:HAB1	1.80	1.20
2:W2:119:ILE:HD11	13:W2:202:CYC:CMA	1.71	1.20
2:H3:31:ARG:HH11	2:H3:103:GLY:N	1.35	1.20
3:G4:70:PRO:HG3	8:W8:18:LYS:NZ	1.46	1.20
13:AA:304:CYC:O1A	3:KA:121:LEU:HD23	1.40	1.20
1:A1:191:ILE:HG21	8:h8:68:ARG:NH1	1.56	1.20
3:T2:154:CYS:SG	13:T2:201:CYC:CBC	2.29	1.20
3:E3:85:ARG:NH1	13:E3:201:CYC:O2A	1.72	1.20
2:B6:119:ILE:CD1	13:B6:1001:CYC:CMA	2.13	1.20
3:V6:58:ARG:NH2	2:W6:73:PRO:CB	2.03	1.20
3:G7:44:ARG:NH1	3:G7:145:ASP:CB	2.05	1.20
8:T8:63:TYR:O	5:AA:250:ARG:N	1.73	1.20
3:E2:85:ARG:NH1	13:E2:201:CYC:O2A	1.73	1.20
3:M3:87:MET:CE	13:N3:301:CYC:CBC	1.99	1.20
13:B5:1001:CYC:O1A	3:G5:68:ILE:HD13	1.07	1.20
6:A7:90:GLU:HG3	2:J7:16:GLN:NE2	1.55	1.20
2:J7:119:ILE:CD1	13:J7:1001:CYC:HMA1	1.72	1.20
3:RA:39:LEU:CD2	13:RA:201:CYC:HBB2	1.72	1.20
3:C2:152:GLY:HA3	13:C2:202:CYC:HMD1	1.25	1.19
2:D3:26:GLN:OE1	2:H3:31:ARG:HG2	1.36	1.19
3:K4:154:CYS:SG	13:K4:202:CYC:HAB1	1.80	1.19
3:G6:44:ARG:NH1	3:G6:145:ASP:CB	2.05	1.19
2:J6:119:ILE:CD1	13:J6:1001:CYC:HMA1	1.72	1.19
2:W6:119:ILE:HD11	13:W6:202:CYC:CMA	1.71	1.19
3:TA:154:CYS:SG	13:TA:202:CYC:HAC2	1.82	1.19
2:O1:85:CYS:HA	13:O1:1001:CYC:CAC	1.73	1.19
3:X1:83:CYS:SG	13:X1:201:CYC:C4C	2.31	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G4:69:ALA:HB2	8:W8:16:GLN:NE2	1.54	1.19
3:G5:39:LEU:HD23	13:G5:201:CYC:CBB	1.71	1.19
3:R5:39:LEU:CD2	13:R5:201:CYC:HBB2	1.72	1.19
3:X5:87:MET:HE3	13:X5:201:CYC:CBC	1.71	1.19
2:W6:34:ARG:HH12	13:W6:201:CYC:C1C	1.48	1.19
8:t9:63:TYR:HB3	5:AA:205:LYS:CE	1.70	1.19
3:GA:39:LEU:CD2	13:GA:1002:CYC:CBB	2.20	1.19
3:GA:39:LEU:HD23	13:GA:1002:CYC:CBB	1.71	1.19
2:Q2:91:HIS:CG	13:Q2:201:CYC:HBB3	1.77	1.19
2:J3:119:ILE:CD1	13:J3:1001:CYC:HMA1	1.72	1.19
2:O6:29:ARG:NH1	13:W6:201:CYC:HMD2	1.55	1.19
9:49:10:LEU:HD12	9:49:26:THR:O	1.37	1.19
7:w9:66:VAL:CG1	5:AA:230:GLY:N	2.06	1.19
1:A1:207:ILE:CB	7:c8:66:VAL:HG21	1.72	1.19
3:G2:44:ARG:NH1	3:G2:145:ASP:CB	2.05	1.19
3:Z2:83:CYS:HB2	13:Z2:202:CYC:CAC	1.71	1.19
6:A3:90:GLU:HG3	2:J3:16:GLN:NE2	1.55	1.19
3:K4:68:ILE:HD13	13:L4:201:CYC:O1A	1.37	1.19
5:A5:250:ARG:N	8:F9:63:TYR:O	1.74	1.19
13:A5:303:CYC:HAC2	3:G5:83:CYS:CB	1.73	1.19
2:Q6:91:HIS:CG	13:Q6:201:CYC:HBB3	1.77	1.19
13:M8:1001:CYC:OB	9:N8:45:GLN:NE2	1.74	1.19
13:AA:301:CYC:CBC	3:CA:87:MET:HE3	1.71	1.19
3:G2:44:ARG:HH12	3:G2:145:ASP:CB	1.55	1.18
3:T4:76:THR:HG22	3:T4:79:ARG:NE	1.58	1.18
3:Z4:83:CYS:SG	13:Z4:202:CYC:CAC	2.31	1.18
2:F5:62:GLN:OE1	3:G7:71:GLY:CA	1.89	1.18
3:X5:87:MET:HE3	13:X5:201:CYC:HBC1	1.21	1.18
3:M2:87:MET:CE	13:N2:301:CYC:CBC	1.99	1.18
3:X2:58:ARG:CZ	2:Y2:73:PRO:HB2	1.73	1.18
2:F5:32:TYR:CE1	3:G5:35:GLY:HA3	1.78	1.18
3:G5:39:LEU:CD2	13:G5:201:CYC:CBB	2.20	1.18
3:G3:44:ARG:HH12	3:G3:145:ASP:CB	1.55	1.18
3:G3:71:GLY:CA	2:FA:62:GLN:NE2	2.06	1.18
13:A5:304:CYC:O1A	3:K5:121:LEU:HD23	1.40	1.18
3:E6:157:LEU:O	3:E6:161:VAL:HG23	1.42	1.18
3:Z6:87:MET:CE	13:Z6:202:CYC:CBC	1.85	1.18
1:A1:207:ILE:HG22	7:c8:59:PHE:HB3	1.26	1.18
3:Z1:83:CYS:SG	13:Z1:202:CYC:CAC	2.31	1.18
5:A5:241:ILE:HD11	7:A9:78:THR:HG23	1.23	1.18
3:K5:154:CYS:SG	13:K5:201:CYC:HMB1	1.84	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T5:154:CYS:SG	13:T5:202:CYC:HAC2	1.82	1.18
2:J2:119:ILE:CD1	13:J2:1001:CYC:HMA1	1.72	1.18
3:G3:44:ARG:NH1	3:G3:145:ASP:CB	2.05	1.18
5:A5:59:HIS:HD2	13:A5:303:CYC:O1A	1.24	1.18
6:A7:97:ALA:HB1	6:A7:136:LEU:CD1	1.71	1.18
3:C7:152:GLY:HA3	13:C7:201:CYC:HMD1	1.25	1.18
7:w9:82:LEU:HD13	5:AA:222:LEU:CD2	1.73	1.18
3:EA:154:CYS:CB	13:EA:201:CYC:HAC2	1.74	1.18
2:FA:32:TYR:CE1	3:GA:35:GLY:HA3	1.78	1.18
2:L1:40:GLU:CG	2:J3:140:ASN:ND2	2.08	1.17
2:H3:31:ARG:NH1	2:H3:103:GLY:HA2	1.56	1.17
1:A4:67:ASN:ND2	3:K4:92:ARG:HH12	1.40	1.17
3:T4:152:GLY:HA3	13:T4:201:CYC:HMD1	1.22	1.17
4:N5:62:LEU:HD11	4:N5:72:PHE:CG	1.79	1.17
6:A7:13:GLN:CG	6:A7:119:TYR:CE2	2.27	1.17
3:I7:87:MET:HE1	13:I7:201:CYC:HBC2	1.18	1.17
2:O2:29:ARG:NH1	13:W2:201:CYC:HMD2	1.55	1.17
13:A5:303:CYC:CAC	3:G5:83:CYS:HA	1.74	1.17
5:A6:239:PHE:CZ	7:t8:60:GLN:HG3	1.76	1.17
3:G6:16:ARG:HH22	8:a8:148:LYS:CE	1.58	1.17
3:P6:89:ILE:HG21	13:P6:201:CYC:CBB	1.75	1.17
3:G7:44:ARG:HH12	3:G7:145:ASP:CB	1.55	1.17
3:T1:76:THR:HG22	3:T1:79:ARG:HE	1.02	1.17
2:B2:86:ALA:HB3	7:k9:60:GLN:HG2	1.19	1.17
1:A4:195:ILE:CD1	8:a8:63:TYR:CE1	2.26	1.17
3:G6:44:ARG:HH12	3:G6:145:ASP:CB	1.55	1.17
8:s8:116:THR:OG1	10:19:1103:LEU:CD2	1.93	1.17
1:A1:207:ILE:HG21	7:c8:66:VAL:HG11	1.20	1.17
2:F2:119:ILE:HD11	13:F2:1001:CYC:HMA1	1.20	1.17
2:L4:51:ARG:NH2	3:C7:148:GLY:CA	2.08	1.17
3:E5:154:CYS:CB	13:E5:201:CYC:HAC2	1.74	1.17
13:AA:303:CYC:HAC2	3:GA:83:CYS:CB	1.73	1.17
3:K7:121:LEU:HD23	13:K7:201:CYC:CGD	1.75	1.17
9:G8:24:GLN:NE2	10:09:522:ASP:OD1	1.77	1.17
8:o8:88:TYR:CZ	13:o8:1001:CYC:CBB	2.28	1.17
3:XA:87:MET:HE3	13:XA:201:CYC:HBC1	1.21	1.17
2:F5:62:GLN:OE1	3:G7:71:GLY:C	1.88	1.16
3:X6:58:ARG:CZ	2:Y6:73:PRO:CB	2.24	1.16
2:Y6:74:GLN:HE22	2:Y6:124:ASP:CB	1.58	1.16
9:i8:24:GLN:CB	10:09:1087:ASP:OD1	1.93	1.16
13:AA:303:CYC:CAC	3:GA:83:CYS:HA	1.74	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NA:62:LEU:HD11	4:NA:72:PHE:CG	1.78	1.16
3:K1:79:ARG:CB	13:K1:201:CYC:O1A	1.93	1.16
3:K2:121:LEU:HD23	13:K2:201:CYC:CGD	1.75	1.16
3:R2:83:CYS:HB2	13:R2:1001:CYC:CAC	1.75	1.16
6:A7:67:PHE:HE2	2:J7:17:GLY:HA3	1.01	1.16
8:W8:84:ARG:NH1	10:19:1001:SER:OG	1.78	1.16
3:X1:93:TYR:HE2	13:X1:201:CYC:HBB1	1.03	1.16
3:E2:157:LEU:O	3:E2:161:VAL:HG23	1.42	1.16
3:I2:115:ARG:NH2	4:N2:9:ARG:CD	2.09	1.16
2:O4:85:CYS:HA	13:O4:1001:CYC:CAC	1.73	1.16
8:m8:116:THR:OG1	10:09:1103:LEU:CD2	1.92	1.16
13:29:1001:CYC:CAC	8:W9:82:CYS:SG	2.34	1.16
3:KA:154:CYS:SG	13:KA:201:CYC:HMB1	1.84	1.16
3:R2:154:CYS:SG	13:U2:201:CYC:C3C	2.34	1.16
3:R6:154:CYS:SG	13:U6:201:CYC:C3C	2.34	1.16
8:l9:82:CYS:SG	13:l9:1001:CYC:CAC	2.34	1.16
7:o9:76:GLU:HG2	5:AA:201:PHE:HD2	1.03	1.16
1:A1:209:THR:CG2	7:c8:67:SER:HA	1.74	1.16
3:R2:154:CYS:SG	13:U2:201:CYC:H2C	1.86	1.16
3:X2:58:ARG:CZ	2:Y2:73:PRO:CB	2.24	1.16
3:K3:121:LEU:HD23	13:K3:201:CYC:CGD	1.75	1.16
2:B5:34:ARG:NH1	2:B5:150:GLU:CD	2.03	1.16
3:R6:154:CYS:SG	13:U6:201:CYC:H2C	1.86	1.16
3:X6:58:ARG:CZ	2:Y6:73:PRO:HB2	1.73	1.16
6:A7:106:VAL:CG2	6:A7:131:ILE:HD12	1.76	1.16
8:H9:82:CYS:SG	13:H9:1001:CYC:CAC	2.34	1.16
7:b9:83:ARG:NH1	13:b9:1001:CYC:O2A	1.79	1.16
2:B1:83:SER:HB3	8:d8:27:LYS:CG	1.73	1.15
3:T5:89:ILE:HG12	13:T5:201:CYC:HMC3	1.24	1.15
13:T8:1001:CYC:OB	9:U8:45:GLN:NE2	1.79	1.15
7:A9:83:ARG:NH1	13:A9:1001:CYC:O2A	1.79	1.15
8:e9:82:CYS:SG	13:e9:1001:CYC:CAC	2.34	1.15
2:BA:34:ARG:NH1	2:BA:150:GLU:CD	2.03	1.15
1:A1:212:PHE:CD1	7:l8:66:VAL:HB	1.80	1.15
3:C1:154:CYS:SG	13:C1:302:CYC:H2C	1.86	1.15
3:T1:76:THR:HG22	3:T1:79:ARG:NE	1.58	1.15
2:Y2:74:GLN:HE22	2:Y2:124:ASP:CB	1.58	1.15
3:K4:79:ARG:CB	13:K4:201:CYC:O1A	1.93	1.15
8:s8:116:THR:OG1	10:19:1103:LEU:HD21	1.42	1.15
8:O9:82:CYS:SG	13:O9:1001:CYC:CAC	2.34	1.15
7:u9:83:ARG:NH1	13:u9:1001:CYC:O2A	1.80	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:v9:82:CYS:SG	13:v9:1001:CYC:CAC	2.34	1.15
3:VA:68:ILE:HD13	13:WA:1001:CYC:O1A	0.97	1.15
3:P1:77:ASN:HD21	2:Q1:116:LEU:CA	1.60	1.15
6:A7:14:ASN:C	13:E7:201:CYC:HMA1	1.70	1.15
13:09:1203:CYC:CAC	8:M9:82:CYS:SG	2.34	1.15
13:19:1204:CYC:CAC	8:a9:82:CYS:SG	2.34	1.15
8:c9:82:CYS:SG	13:c9:1001:CYC:CAC	2.34	1.15
7:f9:83:ARG:NH1	13:f9:1001:CYC:O2A	1.80	1.15
8:t9:63:TYR:HB3	5:AA:205:LYS:HD2	1.15	1.15
7:y9:83:ARG:NH1	13:y9:1001:CYC:O2A	1.80	1.15
8:z9:82:CYS:SG	13:z9:1001:CYC:CAC	2.34	1.15
5:AA:61:ILE:HD11	3:GA:85:ARG:NH1	1.60	1.15
2:B1:53:ILE:CD1	8:d8:22:THR:HG21	1.76	1.15
3:V1:36:ASN:ND2	13:V1:201:CYC:C3D	2.10	1.15
6:A3:14:ASN:C	13:E3:201:CYC:HMA1	1.70	1.15
2:B3:73:PRO:CB	3:G3:58:ARG:CZ	2.24	1.15
3:T4:76:THR:HG22	3:T4:79:ARG:HE	1.02	1.15
5:A5:230:GLY:N	7:q9:66:VAL:HG12	1.59	1.15
5:A5:239:PHE:HB3	7:A9:52:LYS:CE	1.76	1.15
3:M5:154:CYS:SG	13:M5:1003:CYC:CMB	2.35	1.15
3:X5:54:THR:HB	3:X5:58:ARG:NH2	1.59	1.15
2:F7:119:ILE:HD11	13:F7:1001:CYC:HMA1	1.20	1.15
7:E8:68:PRO:HG2	7:E9:66:VAL:CG1	1.76	1.15
4:NA:91:PHE:CE1	13:NA:301:CYC:HAB2	1.81	1.15
3:RA:39:LEU:CD2	13:RA:201:CYC:CBB	2.25	1.15
3:X1:83:CYS:CB	13:X1:201:CYC:HAC2	1.75	1.15
5:A2:60:GLU:O	5:A2:62:LEU:HD13	1.47	1.15
3:Z2:40:ASP:OD1	13:Z2:201:CYC:CHD	1.94	1.15
6:A3:106:VAL:CG2	6:A3:131:ILE:HD12	1.76	1.15
3:G4:70:PRO:HG2	8:W8:18:LYS:NZ	1.45	1.15
3:K6:121:LEU:HD23	13:K6:201:CYC:CGD	1.75	1.15
13:19:1205:CYC:CAC	8:h9:82:CYS:SG	2.34	1.15
7:C9:83:ARG:NH1	13:C9:1001:CYC:O2A	1.79	1.15
8:F9:82:CYS:SG	13:F9:1001:CYC:CAC	2.34	1.15
8:L9:82:CYS:SG	13:L9:1001:CYC:CAC	2.34	1.15
8:t9:63:TYR:CB	5:AA:205:LYS:HD2	1.77	1.15
3:MA:154:CYS:SG	13:MA:1003:CYC:CMB	2.35	1.15
4:N1:48:TYR:HB2	3:P1:85:ARG:NH1	1.62	1.14
2:B2:73:PRO:CB	3:G2:58:ARG:CZ	2.24	1.14
3:E2:83:CYS:HB2	13:E2:201:CYC:HAC2	1.27	1.14
3:P2:89:ILE:HG21	13:P2:201:CYC:CBB	1.75	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:195:ILE:CD1	7:V8:80:THR:HG21	1.68	1.14
5:A5:61:ILE:HD11	3:G5:85:ARG:NH1	1.60	1.14
3:V5:68:ILE:HD13	13:W5:1001:CYC:O1A	0.97	1.14
3:C6:87:MET:HE1	13:C6:201:CYC:HBC1	1.17	1.14
2:O6:29:ARG:HH12	13:W6:201:CYC:CMD	1.61	1.14
3:P6:44:ARG:HH21	3:P6:149:ILE:HG12	1.09	1.14
2:B7:73:PRO:CB	3:G7:58:ARG:CZ	2.24	1.14
3:E7:157:LEU:O	3:E7:161:VAL:HG23	1.42	1.14
7:O8:15:ALA:HB2	10:09:765:GLU:CA	1.76	1.14
8:k8:115:GLU:HG2	7:C9:49:ARG:NH2	1.44	1.14
8:r9:82:CYS:SG	13:r9:1001:CYC:CAC	2.34	1.14
3:M2:87:MET:HE1	13:N2:301:CYC:HBC3	1.20	1.14
3:P2:44:ARG:HH21	3:P2:149:ILE:HG12	1.09	1.14
3:E3:157:LEU:O	3:E3:161:VAL:HG23	1.42	1.14
3:P4:127:SER:HB3	13:P4:201:CYC:CMC	1.77	1.14
5:A5:228:ASN:O	7:q9:66:VAL:CG1	1.93	1.14
4:N5:91:PHE:CE1	13:N5:301:CYC:HAB2	1.81	1.14
3:I6:115:ARG:NH2	4:N6:9:ARG:CD	2.09	1.14
6:A7:88:LYS:CE	6:A7:141:ASP:OD1	1.95	1.14
3:M7:87:MET:HE1	13:N7:301:CYC:HBC3	1.20	1.14
8:D8:11:ASN:ND2	10:09:537:SER:O	1.79	1.14
8:D9:82:CYS:SG	13:D9:1001:CYC:CAC	2.34	1.14
8:t9:82:CYS:SG	13:t9:1001:CYC:CAC	2.34	1.14
8:x9:82:CYS:SG	13:x9:1001:CYC:CAC	2.34	1.14
5:AA:60:GLU:HG3	5:AA:65:ASN:ND2	1.63	1.14
2:WA:29:ARG:HG3	13:XA:202:CYC:OC	1.47	1.14
2:W1:34:ARG:NH1	2:W1:150:GLU:HB2	1.62	1.14
3:G2:86:ASP:OD1	13:G2:202:CYC:HHD	1.48	1.14
3:R2:154:CYS:SG	13:U2:201:CYC:C2C	2.36	1.14
3:C4:154:CYS:SG	13:C4:302:CYC:H2C	1.86	1.14
13:B5:1001:CYC:O2D	3:G5:58:ARG:NH2	1.81	1.14
3:E6:83:CYS:HB2	13:E6:201:CYC:HAC2	1.27	1.14
2:F6:20:LEU:HA	2:F6:24:GLU:OE2	1.46	1.14
2:Q6:91:HIS:HB3	13:Q6:201:CYC:HAB1	1.15	1.14
2:H7:29:ARG:HD2	13:I7:202:CYC:OC	1.47	1.14
8:k8:115:GLU:HG3	7:C9:49:ARG:NH2	1.55	1.14
13:19:1203:CYC:CAC	8:Y9:82:CYS:SG	2.34	1.14
7:I9:83:ARG:NH1	13:I9:1001:CYC:O2A	1.80	1.14
7:N9:83:ARG:NH1	13:N9:1001:CYC:O2A	1.80	1.14
8:S9:82:CYS:SG	13:S9:1001:CYC:CAC	2.34	1.14
8:j9:82:CYS:SG	13:j9:1001:CYC:CAC	2.34	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p9:82:CYS:SG	13:p9:1001:CYC:CAC	2.34	1.14
3:E3:83:CYS:HB2	13:E3:201:CYC:HAC2	1.27	1.14
2:L4:41:ALA:HB2	2:L4:147:ALA:CB	1.77	1.14
3:R5:39:LEU:CD2	13:R5:201:CYC:CBB	2.25	1.14
2:B6:73:PRO:CB	3:G6:58:ARG:CZ	2.24	1.14
3:M6:87:MET:HE1	13:N6:301:CYC:HBC3	1.20	1.14
3:R6:83:CYS:HB2	13:R6:1001:CYC:CAC	1.75	1.14
3:R6:154:CYS:SG	13:U6:201:CYC:C2C	2.35	1.14
3:Z6:40:ASP:OD1	13:Z6:201:CYC:CHD	1.94	1.14
7:E8:68:PRO:CG	7:E9:66:VAL:HG11	1.76	1.14
13:39:1001:CYC:CAC	8:n9:82:CYS:SG	2.34	1.14
8:J9:82:CYS:SG	13:J9:1001:CYC:CAC	2.34	1.14
7:k9:83:ARG:NH1	13:k9:1001:CYC:O2A	1.79	1.14
3:XA:68:ILE:CD1	13:YA:201:CYC:O1A	1.96	1.14
3:P1:89:ILE:HG22	13:P1:201:CYC:HBB3	1.20	1.14
3:T1:128:VAL:CG2	13:T1:202:CYC:HMB2	1.77	1.14
2:O6:73:PRO:HB2	3:T6:58:ARG:NH2	1.62	1.14
2:Q6:26:GLN:HG2	2:U6:34:ARG:HD3	1.24	1.14
13:A7:301:CYC:HAC2	3:C7:83:CYS:CB	1.77	1.14
8:B9:82:CYS:SG	13:B9:1001:CYC:CAC	2.34	1.14
7:E9:83:ARG:NH1	13:E9:1001:CYC:O2A	1.79	1.14
7:K9:83:ARG:NH1	13:K9:1001:CYC:O2A	1.79	1.14
7:P9:83:ARG:NH1	13:P9:1001:CYC:O2A	1.79	1.14
7:q9:83:ARG:NH1	13:q9:1001:CYC:O2A	1.79	1.14
5:A2:250:ARG:HA	8:I8:63:TYR:O	1.47	1.13
2:Q2:26:GLN:HG2	2:U2:34:ARG:HD3	1.24	1.13
2:W2:34:ARG:HH12	13:W2:201:CYC:C1C	1.48	1.13
3:T4:128:VAL:CG2	13:T4:202:CYC:HMB2	1.77	1.13
5:A5:231:ASN:CG	7:A9:67:SER:HB3	1.72	1.13
3:R5:39:LEU:HD23	13:R5:201:CYC:HBB3	1.16	1.13
2:B6:73:PRO:HB2	3:G6:58:ARG:CZ	1.78	1.13
7:G9:83:ARG:NH1	13:G9:1001:CYC:O2A	1.79	1.13
7:s9:83:ARG:NH1	13:s9:1001:CYC:O2A	1.80	1.13
8:t9:63:TYR:CB	5:AA:205:LYS:HZ3	1.53	1.13
1:A1:207:ILE:HB	7:c8:66:VAL:CG2	1.76	1.13
2:L1:41:ALA:HB2	2:L1:147:ALA:CB	1.77	1.13
3:P1:89:ILE:CG2	13:P1:201:CYC:CBB	2.27	1.13
3:P1:127:SER:HB3	13:P1:201:CYC:CMC	1.77	1.13
3:P4:77:ASN:HD21	2:Q4:116:LEU:CA	1.60	1.13
2:W5:29:ARG:HG3	13:X5:202:CYC:OC	1.47	1.13
2:B6:30:GLY:HA3	2:J6:30:GLY:HA3	1.28	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:104:ARG:HD3	6:A7:108:ILE:CG1	1.78	1.13
7:H8:20:PRO:CB	7:X9:151:SER:OG	1.96	1.13
3:TA:154:CYS:CB	13:TA:202:CYC:HAC2	1.77	1.13
2:B1:86:ALA:CB	8:d8:26:GLU:HG3	1.78	1.13
3:T1:82:ALA:HB3	13:T1:202:CYC:CAA	1.69	1.13
3:P4:68:ILE:CD1	13:Q4:201:CYC:O1A	1.96	1.13
3:V4:36:ASN:ND2	13:V4:201:CYC:C3D	2.10	1.13
5:A5:223:ALA:CB	7:q9:78:THR:CG2	2.22	1.13
3:M5:154:CYS:SG	13:M5:1003:CYC:HMB2	1.89	1.13
2:Q5:31:ARG:HH11	2:Q5:103:GLY:CA	1.61	1.13
3:T5:154:CYS:CB	13:T5:202:CYC:HAC2	1.77	1.13
3:V5:89:ILE:CG1	13:V5:201:CYC:HMC1	1.79	1.13
3:E6:119:GLN:NE2	8:a8:16:GLN:NE2	1.97	1.13
9:U8:46:LYS:CD	10:09:848:GLN:NE2	2.10	1.13
13:d8:1001:CYC:HMA2	10:09:1001:SER:HB3	1.28	1.13
8:s8:69:PRO:O	10:19:936:SER:HB2	1.47	1.13
3:KA:68:ILE:HD13	13:LA:201:CYC:O1A	1.49	1.13
2:QA:31:ARG:NH1	2:QA:103:GLY:CA	2.12	1.13
5:A2:191:GLN:O	7:d9:75:GLN:HG3	1.49	1.13
2:H2:29:ARG:HD2	13:I2:202:CYC:OC	1.47	1.13
4:N2:63:ARG:HB2	13:V2:202:CYC:O2D	1.45	1.13
3:I3:87:MET:HE1	13:I3:201:CYC:HBC2	1.18	1.13
3:P4:89:ILE:CG2	13:P4:201:CYC:CBB	2.27	1.13
5:A5:228:ASN:HD22	7:q9:59:PHE:CB	1.62	1.13
3:I5:154:CYS:SG	13:I5:202:CYC:C3B	2.37	1.13
3:X5:68:ILE:CD1	13:Y5:201:CYC:O1A	1.96	1.13
13:h8:1001:CYC:OB	9:i8:45:GLN:NE2	1.80	1.13
7:R9:83:ARG:NH1	13:R9:1001:CYC:O2A	1.80	1.13
7:T9:83:ARG:NH1	13:T9:1001:CYC:O2A	1.79	1.13
8:U9:82:CYS:SG	13:U9:1001:CYC:CAC	2.34	1.13
7:X9:83:ARG:NH1	13:X9:1001:CYC:O2A	1.80	1.13
1:A1:195:ILE:CD1	7:c8:80:THR:HG21	1.75	1.13
1:A1:195:ILE:HG23	7:c8:80:THR:CG2	1.65	1.13
2:L1:41:ALA:HB2	2:L1:147:ALA:HB1	1.19	1.13
3:X1:89:ILE:CG2	13:X1:201:CYC:HBB3	1.79	1.12
2:O2:73:PRO:HB2	3:T2:58:ARG:NH2	1.62	1.12
6:A3:88:LYS:CE	6:A3:141:ASP:OD1	1.95	1.12
6:A3:104:ARG:HD3	6:A3:108:ILE:CG1	1.78	1.12
13:A3:301:CYC:HAC2	3:C3:83:CYS:CB	1.77	1.12
4:N4:48:TYR:HB2	3:P4:85:ARG:NH1	1.62	1.13
3:R6:121:LEU:HD11	13:R6:1001:CYC:HAA2	1.31	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G7:86:ASP:OD1	13:G7:201:CYC:HHD	1.48	1.12
9:G8:25:ASN:ND2	10:09:656:GLY:O	1.81	1.12
3:XA:39:LEU:HD23	13:XA:202:CYC:HMC3	1.28	1.13
5:A6:60:GLU:O	5:A6:62:LEU:HD13	1.47	1.12
7:o9:83:ARG:NH1	13:o9:1001:CYC:O2A	1.79	1.12
13:AA:303:CYC:HAC2	3:GA:83:CYS:SG	1.88	1.12
2:J2:119:ILE:HD11	13:J2:1001:CYC:CMA	1.79	1.12
3:Z5:39:LEU:HD23	13:Z5:202:CYC:HMC3	1.28	1.12
2:J7:119:ILE:HD11	13:J7:1001:CYC:CMA	1.79	1.12
7:t8:52:LYS:HE3	10:19:930:PHE:HE2	1.12	1.12
3:IA:154:CYS:SG	13:IA:202:CYC:C3B	2.37	1.12
3:MA:154:CYS:SG	13:MA:1003:CYC:HMB2	1.89	1.12
3:TA:154:CYS:SG	13:TA:202:CYC:CAC	2.37	1.12
6:A3:106:VAL:HG22	6:A3:131:ILE:HD11	1.14	1.12
2:J3:119:ILE:HD11	13:J3:1001:CYC:CMA	1.79	1.12
1:A4:195:ILE:HG23	7:V8:80:THR:CG2	1.64	1.12
2:O6:119:ILE:HD11	13:O6:1001:CYC:HMA1	1.12	1.12
6:A7:103:TYR:OH	13:A7:301:CYC:HMA3	1.50	1.12
2:F7:20:LEU:HA	2:F7:24:GLU:OE2	1.47	1.12
2:QA:31:ARG:HH11	2:QA:103:GLY:CA	1.61	1.12
3:ZA:39:LEU:CD2	13:ZA:202:CYC:HMC3	1.80	1.12
2:O1:119:ILE:HD13	13:O1:1001:CYC:HMA2	1.32	1.12
3:P1:68:ILE:CD1	13:Q1:201:CYC:O1A	1.96	1.12
2:B2:73:PRO:HB2	3:G2:58:ARG:CZ	1.78	1.12
3:G2:16:ARG:HH22	8:h8:148:LYS:CE	1.62	1.12
3:C3:152:GLY:HA3	13:C3:201:CYC:HMD1	1.25	1.12
1:A4:209:THR:HG21	7:V8:67:SER:CA	1.80	1.12
2:W4:34:ARG:NH1	2:W4:150:GLU:HB2	1.62	1.12
5:A5:60:GLU:HG3	5:A5:65:ASN:HD22	0.96	1.12
13:A5:303:CYC:HAC2	3:G5:83:CYS:SG	1.88	1.12
13:A5:304:CYC:HMC3	3:K5:89:ILE:HG12	1.31	1.12
3:Z5:39:LEU:CD2	13:Z5:202:CYC:HMC3	1.80	1.12
7:j8:110:ILE:HD11	10:09:1117:TRP:CZ2	1.73	1.12
7:w9:83:ARG:NH1	13:w9:1001:CYC:O2A	1.80	1.12
2:F1:25:LEU:HB3	13:G1:201:CYC:HBB1	1.15	1.12
5:A2:63:LYS:HE3	2:L2:118:GLU:OE2	1.50	1.12
6:A3:106:VAL:CG2	6:A3:131:ILE:CD1	2.28	1.12
2:F3:20:LEU:HA	2:F3:24:GLU:OE2	1.47	1.12
2:H3:29:ARG:HD2	13:I3:202:CYC:OC	1.47	1.12
3:T4:40:ASP:OD2	13:T4:201:CYC:ND	1.83	1.12
2:F5:62:GLN:CD	3:G7:71:GLY:CA	2.23	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F5:62:GLN:OE1	3:G7:71:GLY:HA3	1.44	1.12
3:C6:152:GLY:HA3	13:C6:202:CYC:HMD1	1.25	1.12
2:H6:29:ARG:HD2	13:I6:202:CYC:OC	1.47	1.12
3:P6:34:GLU:OE1	3:P6:157:LEU:HG	1.49	1.12
3:E7:83:CYS:CB	13:E7:201:CYC:HAC2	1.79	1.12
7:H8:20:PRO:HB3	7:X9:151:SER:OG	1.50	1.12
8:k8:108:ARG:NH2	10:09:1029:THR:HA	1.63	1.12
3:IA:87:MET:CE	13:IA:201:CYC:CBC	2.28	1.12
2:SA:32:TYR:CE1	3:TA:35:GLY:HA3	1.84	1.12
5:A2:228:ASN:ND2	7:X9:60:GLN:HG3	1.63	1.11
3:E2:83:CYS:CB	13:E2:201:CYC:HAC2	1.79	1.11
6:A3:71:GLN:CG	6:A3:77:ILE:HD12	1.78	1.11
3:E3:83:CYS:CB	13:E3:201:CYC:HAC2	1.79	1.11
2:L3:31:ARG:HH21	2:L3:35:ALA:HB2	1.14	1.11
3:M3:87:MET:HE1	13:N3:301:CYC:HBC3	1.20	1.11
5:A5:60:GLU:HG3	5:A5:65:ASN:ND2	1.63	1.11
3:G6:16:ARG:NH2	8:a8:148:LYS:HE2	1.63	1.11
3:I6:87:MET:HE1	13:I6:201:CYC:HBC2	1.18	1.11
2:H7:31:ARG:NE	2:H7:35:ALA:HB2	1.64	1.11
3:KA:77:ASN:OD1	13:LA:201:CYC:C4B	1.97	1.11
3:T1:40:ASP:OD2	13:T1:201:CYC:ND	1.83	1.11
13:Q4:202:CYC:HMD1	3:R4:152:GLY:HA3	1.16	1.11
3:X4:89:ILE:CG2	13:X4:201:CYC:HBB3	1.79	1.11
2:B5:79:SER:HB3	7:q9:73:TYR:OH	1.49	1.11
3:K5:77:ASN:OD1	13:L5:201:CYC:C4B	1.97	1.11
2:Y6:74:GLN:HE22	2:Y6:124:ASP:HB2	1.08	1.11
13:A7:301:CYC:CBC	3:C7:87:MET:HE1	1.79	1.11
2:B7:30:GLY:HA3	2:J7:30:GLY:HA3	1.29	1.11
3:T1:152:GLY:HA3	13:T1:201:CYC:HMD1	1.22	1.11
3:G2:16:ARG:HH22	8:h8:148:LYS:HE2	0.98	1.11
2:L2:31:ARG:HH21	2:L2:35:ALA:HB2	1.13	1.11
2:O2:29:ARG:HH12	13:W2:201:CYC:CMD	1.61	1.11
2:S2:119:ILE:HD11	13:S2:1001:CYC:HMA1	1.31	1.11
13:A3:301:CYC:CBC	3:C3:87:MET:HE1	1.80	1.11
3:G3:34:GLU:OE2	3:G3:157:LEU:HD23	1.51	1.11
3:I6:115:ARG:HH22	4:N6:9:ARG:CD	1.62	1.11
2:J6:119:ILE:HD11	13:J6:1001:CYC:CMA	1.79	1.11
9:U8:46:LYS:CD	10:09:848:GLN:HE21	1.61	1.11
8:o8:77:ARG:NH2	13:o8:1001:CYC:O1D	1.81	1.11
3:G2:82:ALA:HB3	13:G2:202:CYC:HMD1	1.33	1.11
2:O2:31:ARG:NH2	2:O2:35:ALA:HB2	1.54	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q5:31:ARG:NH1	2:Q5:103:GLY:CA	2.12	1.11
3:T5:154:CYS:SG	13:T5:202:CYC:CAC	2.37	1.11
5:A6:250:ARG:HA	8:B8:63:TYR:O	1.51	1.11
3:G6:86:ASP:OD1	13:G6:202:CYC:HHD	1.48	1.11
4:N6:63:ARG:HB2	13:V6:202:CYC:O2D	1.45	1.11
9:U8:43:ARG:HD3	10:09:851:ASN:HD21	1.14	1.11
9:b8:21:ARG:HH22	10:19:963:THR:CB	1.63	1.11
8:o8:66:ILE:HG23	10:09:1128:ARG:HD2	1.21	1.11
8:o8:113:LEU:HD21	13:o8:1001:CYC:HMB3	1.28	1.11
8:t9:63:TYR:HB3	5:AA:205:LYS:NZ	1.55	1.11
7:w9:86:ASP:OD2	5:AA:219:PHE:HZ	1.30	1.11
13:UA:1001:CYC:CGA	3:ZA:68:ILE:HD13	1.81	1.11
2:F2:20:LEU:HA	2:F2:24:GLU:OE2	1.46	1.11
2:B3:73:PRO:HB2	3:G3:58:ARG:CZ	1.78	1.11
2:L4:51:ARG:NH2	3:C7:148:GLY:HA2	1.63	1.11
3:V4:36:ASN:ND2	13:V4:201:CYC:HAD1	1.66	1.11
13:U5:1001:CYC:CGA	3:Z5:68:ILE:HD13	1.81	1.11
6:A7:106:VAL:CG2	6:A7:131:ILE:CD1	2.28	1.11
2:B7:73:PRO:HB2	3:G7:58:ARG:CZ	1.78	1.11
7:C8:9:VAL:HG11	10:09:540:PHE:CE1	1.85	1.11
8:k8:108:ARG:CZ	10:09:1029:THR:HA	1.79	1.11
8:t9:63:TYR:HA	5:AA:205:LYS:NZ	1.53	1.11
1:A1:209:THR:CG2	7:c8:67:SER:CA	2.28	1.10
2:D2:31:ARG:HH21	2:D2:35:ALA:HB2	1.13	1.10
3:T4:82:ALA:HB3	13:T4:202:CYC:CAA	1.69	1.10
5:A5:201:PHE:HD2	7:u9:76:GLU:HG2	1.02	1.10
3:I5:87:MET:CE	13:I5:201:CYC:CBC	2.28	1.10
3:K5:154:CYS:SG	13:K5:201:CYC:CMB	2.39	1.10
2:B6:31:ARG:HH21	2:B6:35:ALA:HB2	0.94	1.10
3:E6:83:CYS:CB	13:E6:201:CYC:HAC2	1.79	1.10
2:H6:29:ARG:HH12	13:I6:202:CYC:HMD2	1.13	1.10
13:R8:1001:CYC:OB	9:U8:21:ARG:HG2	1.51	1.10
3:KA:154:CYS:SG	13:KA:201:CYC:CMB	2.39	1.10
3:TA:89:ILE:HG12	13:TA:201:CYC:HMC3	1.24	1.10
3:T1:83:CYS:SG	13:T1:202:CYC:C1B	2.39	1.10
2:S2:26:GLN:OE1	2:Y2:5:PRO:HG2	1.50	1.10
3:V2:44:ARG:NH2	3:V2:149:ILE:CG1	2.15	1.10
2:H3:29:ARG:HH12	13:I3:202:CYC:HMD2	1.13	1.10
2:H4:34:ARG:NH1	2:H4:150:GLU:OE2	1.83	1.10
3:T4:83:CYS:SG	13:T4:202:CYC:C1B	2.39	1.10
3:X4:89:ILE:HG21	13:X4:201:CYC:HBB3	1.33	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A6:246:ALA:CB	7:C8:79:ALA:HB1	1.72	1.10
2:H6:119:ILE:HD11	13:H6:1001:CYC:HMA1	1.34	1.10
6:A7:101:SER:HB3	3:C7:112:ASN:HD22	1.12	1.10
9:G8:36:ASN:ND2	10:09:586:ARG:NH2	1.96	1.10
1:A1:207:ILE:HB	7:c8:66:VAL:HG21	1.11	1.10
5:A2:246:ALA:HB3	7:J8:79:ALA:CB	1.77	1.10
2:B2:31:ARG:HH21	2:B2:35:ALA:CB	1.65	1.10
6:A3:103:TYR:OH	13:A3:301:CYC:HMA3	1.50	1.10
3:G3:86:ASP:OD1	13:G3:201:CYC:HHD	1.48	1.10
3:C4:152:GLY:HA3	13:C4:302:CYC:HMD1	1.23	1.10
3:P4:93:TYR:HE2	13:P4:201:CYC:HBB1	0.95	1.10
2:U6:119:ILE:HD11	13:U6:202:CYC:HMA1	1.28	1.10
5:A2:222:LEU:HD22	7:X9:82:LEU:HD13	1.29	1.10
2:Y2:31:ARG:NH2	2:Y2:35:ALA:CA	2.15	1.10
2:D3:31:ARG:HH21	2:D3:35:ALA:HB2	1.13	1.10
2:D3:34:ARG:NH1	2:D3:146:GLN:HE21	1.50	1.10
3:G4:79:ARG:O	13:G4:202:CYC:CMD	1.99	1.10
3:V5:146:PRO:HB3	13:V5:202:CYC:HBB2	1.34	1.10
5:A6:230:GLY:H	7:I9:66:VAL:CG1	1.63	1.10
2:D6:34:ARG:NH1	2:D6:146:GLN:HE21	1.50	1.10
2:F6:119:ILE:HD11	13:F6:1001:CYC:CMA	1.81	1.10
3:G6:34:GLU:OE2	3:G6:157:LEU:HD23	1.51	1.10
3:P6:34:GLU:OE1	3:P6:157:LEU:CG	2.00	1.10
6:A7:104:ARG:O	6:A7:108:ILE:HG13	1.51	1.10
2:D7:34:ARG:NH1	2:D7:146:GLN:HE21	1.50	1.10
8:o8:88:TYR:HE1	8:o8:109:VAL:CG1	1.64	1.10
3:G1:79:ARG:O	13:G1:202:CYC:CMD	1.99	1.10
3:K1:79:ARG:HA	13:K1:201:CYC:O1A	1.52	1.10
2:B2:22:ASN:O	2:B2:26:GLN:HG3	1.51	1.10
2:F3:119:ILE:HD11	13:F3:1001:CYC:CMA	1.81	1.10
2:L4:41:ALA:HB2	2:L4:147:ALA:HB1	1.19	1.10
3:X4:93:TYR:CE2	13:X4:201:CYC:HBB1	1.87	1.10
2:S5:32:TYR:CE1	3:T5:35:GLY:HA3	1.84	1.10
2:B6:31:ARG:NH2	2:B6:35:ALA:HB2	1.65	1.10
2:Y6:31:ARG:NH2	2:Y6:35:ALA:CA	2.15	1.10
2:F7:119:ILE:HD11	13:F7:1001:CYC:CMA	1.81	1.10
8:s8:78:ARG:NH1	10:19:947:VAL:O	1.83	1.10
3:VA:89:ILE:CG1	13:VA:201:CYC:HMC1	1.79	1.10
3:VA:146:PRO:HB3	13:VA:202:CYC:HBB2	1.34	1.10
2:B2:31:ARG:NH2	2:B2:35:ALA:HB2	1.65	1.09
2:O2:119:ILE:HD11	13:O2:1001:CYC:HMA1	1.12	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R2:121:LEU:HD11	13:R2:1001:CYC:HAA2	1.31	1.09
6:A3:67:PHE:HE2	2:J3:17:GLY:HA3	1.01	1.09
2:F3:119:ILE:HD11	13:F3:1001:CYC:HMA1	1.20	1.09
5:A5:205:LYS:NZ	8:z9:63:TYR:HA	1.59	1.09
4:N5:92:GLN:CG	4:N5:118:LEU:HD21	1.81	1.09
3:V5:60:LEU:HD21	13:V5:201:CYC:HBB2	1.27	1.09
5:A6:63:LYS:HE3	2:L6:118:GLU:OE2	1.50	1.09
2:O6:31:ARG:NH2	2:O6:35:ALA:HB1	1.60	1.09
7:O8:68:PRO:CG	5:AA:231:ASN:ND2	2.14	1.09
7:w9:86:ASP:OD2	5:AA:219:PHE:CZ	2.03	1.09
1:A1:212:PHE:HB3	7:l8:66:VAL:O	1.51	1.09
2:H1:34:ARG:NH1	2:H1:150:GLU:OE2	1.83	1.09
2:L1:51:ARG:NH1	3:C3:148:GLY:HA2	1.66	1.09
4:N1:156:THR:C	4:N1:157:GLN:OE1	1.96	1.09
13:Q1:202:CYC:HMD1	3:R1:152:GLY:HA3	1.16	1.09
3:I2:115:ARG:HH22	4:N2:9:ARG:CD	1.62	1.09
13:A3:301:CYC:HAC2	3:C3:83:CYS:HB2	1.15	1.09
3:C3:58:ARG:CZ	2:D3:73:PRO:HB2	1.83	1.09
2:H4:29:ARG:HD3	13:I4:202:CYC:OC	1.50	1.09
3:T4:82:ALA:HB2	13:T4:202:CYC:HAA2	1.32	1.09
3:G5:39:LEU:CD2	13:G5:201:CYC:HBB3	1.81	1.09
3:X5:39:LEU:HD23	13:X5:202:CYC:HMC3	1.28	1.09
2:L6:31:ARG:HH21	2:L6:35:ALA:HB2	1.13	1.09
2:Q6:88:ASP:HA	13:Q6:201:CYC:HMB2	1.34	1.09
6:A7:71:GLN:HG3	6:A7:77:ILE:CD1	1.82	1.09
2:H7:29:ARG:HH12	13:I7:202:CYC:HMD2	1.13	1.09
9:b8:24:GLN:HE21	10:19:963:THR:C	1.53	1.09
7:j8:110:ILE:HD11	10:09:1117:TRP:HZ2	1.05	1.09
7:p8:9:VAL:CG2	10:19:1024:ARG:NH2	2.15	1.09
2:B1:86:ALA:HB2	8:d8:26:GLU:HG3	1.12	1.09
3:K1:154:CYS:SG	13:K1:202:CYC:CAB	2.41	1.09
2:L1:51:ARG:NH2	3:C3:148:GLY:CA	2.16	1.09
2:O2:31:ARG:NH2	2:O2:35:ALA:HB1	1.60	1.09
3:C3:154:CYS:CB	13:C3:201:CYC:HAC2	1.83	1.09
3:X4:93:TYR:HE2	13:X4:201:CYC:HBB1	1.02	1.09
5:A6:250:ARG:N	8:B8:63:TYR:O	1.85	1.09
3:C6:58:ARG:CZ	2:D6:73:PRO:HB2	1.83	1.09
2:S6:26:GLN:OE1	2:Y6:5:PRO:HG2	1.50	1.09
3:V6:44:ARG:NH2	3:V6:149:ILE:CG1	2.15	1.09
2:B7:31:ARG:HH21	2:B7:35:ALA:CB	1.65	1.09
2:B7:31:ARG:NH2	2:B7:35:ALA:HB2	1.65	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:n8:15:ALA:HB1	10:09:989:GLN:CA	1.82	1.09
2:B1:85:CYS:HA	13:B1:1001:CYC:HAC2	1.10	1.09
2:F2:119:ILE:HD11	13:F2:1001:CYC:CMA	1.81	1.09
2:B3:31:ARG:NH2	2:B3:35:ALA:HB2	1.65	1.09
3:K4:154:CYS:SG	13:K4:202:CYC:CAB	2.41	1.09
4:N4:156:THR:C	4:N4:157:GLN:OE1	1.96	1.09
3:P4:89:ILE:HG22	13:P4:201:CYC:HBB3	1.20	1.09
5:A6:222:LEU:HD23	7:I9:82:LEU:HD13	1.09	1.09
3:V6:150:THR:OG1	13:V6:201:CYC:HAA2	0.93	1.09
7:c8:37:LEU:O	7:c8:41:GLN:HG2	1.52	1.09
8:s8:108:ARG:O	10:19:1099:ALA:CB	2.00	1.09
13:AA:304:CYC:HMC3	3:KA:89:ILE:HG12	1.31	1.09
3:V1:127:SER:HB2	13:V1:202:CYC:CBB	1.83	1.09
3:C2:87:MET:HE1	13:C2:201:CYC:HBC1	1.17	1.09
3:G3:154:CYS:SG	13:G3:202:CYC:H2C	1.93	1.09
2:F5:34:ARG:HE	13:M5:1003:CYC:H2C	1.14	1.09
3:K5:68:ILE:HD13	13:L5:201:CYC:O1A	1.49	1.09
2:O5:6:ILE:HG13	2:O5:31:ARG:HD2	1.34	1.09
3:C7:154:CYS:CB	13:C7:201:CYC:HAC2	1.83	1.09
3:G7:154:CYS:SG	13:G7:202:CYC:H2C	1.93	1.09
3:M7:87:MET:HE3	13:N7:301:CYC:HBC1	1.34	1.09
2:BA:31:ARG:HH11	2:BA:103:GLY:HA3	1.15	1.09
3:V1:36:ASN:ND2	13:V1:201:CYC:HAD1	1.66	1.08
2:H2:31:ARG:HH11	2:H2:103:GLY:HA2	0.98	1.08
2:U2:119:ILE:HD11	13:U2:202:CYC:HMA1	1.28	1.08
6:A3:71:GLN:OE1	6:A3:77:ILE:HD12	1.50	1.08
2:B3:22:ASN:O	2:B3:26:GLN:HG3	1.52	1.08
2:F4:25:LEU:HB3	13:G4:201:CYC:HBB1	1.15	1.08
13:U5:1001:CYC:O1A	3:Z5:68:ILE:HD13	0.92	1.08
2:Y5:29:ARG:HD3	13:Z5:202:CYC:OC	1.53	1.08
2:B6:31:ARG:HH21	2:B6:35:ALA:CB	1.65	1.08
13:A7:301:CYC:HAC2	3:C7:83:CYS:HB2	1.15	1.08
3:E7:83:CYS:HB2	13:E7:201:CYC:HAC2	1.27	1.08
3:E7:87:MET:HE1	13:E7:201:CYC:CBC	1.83	1.08
3:G7:154:CYS:SG	13:G7:202:CYC:HBC2	1.93	1.08
13:F8:1001:CYC:OB	9:G8:45:GLN:NE2	1.86	1.08
9:i8:36:ASN:HD21	10:09:1072:GLU:CD	1.61	1.08
2:OA:6:ILE:HG13	2:OA:31:ARG:HD2	1.34	1.08
2:YA:29:ARG:HD3	13:ZA:202:CYC:OC	1.53	1.08
2:Y1:29:ARG:HD3	13:Z1:201:CYC:OC	1.52	1.08
3:G2:154:CYS:SG	13:G2:201:CYC:H2C	1.93	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y2:74:GLN:HE22	2:Y2:124:ASP:HB2	1.08	1.08
6:A3:67:PHE:CE2	2:J3:17:GLY:HA3	1.88	1.08
6:A3:129:ILE:HD13	3:C3:85:ARG:NH1	1.67	1.08
3:G3:71:GLY:HA3	2:FA:62:GLN:OE1	1.52	1.08
2:L4:51:ARG:CZ	3:C7:148:GLY:CA	2.23	1.08
2:D5:34:ARG:NH1	2:D5:150:GLU:HB2	1.67	1.08
5:A6:246:ALA:HB3	7:C8:79:ALA:CB	1.76	1.08
3:E6:87:MET:HE1	13:E6:201:CYC:CBC	1.83	1.08
3:G6:154:CYS:SG	13:G6:201:CYC:HBC2	1.93	1.08
6:A7:67:PHE:CE2	2:J7:17:GLY:HA3	1.88	1.08
6:A7:84:ARG:HH21	6:A7:144:LEU:HB3	1.12	1.08
7:C8:120:GLY:HA2	7:I9:124:GLU:OE2	1.51	1.08
8:m8:116:THR:OG1	10:09:1103:LEU:HD23	1.50	1.08
8:m8:144:ALA:CB	8:e9:29:LYS:HZ2	1.56	1.08
13:UA:1001:CYC:O1A	3:ZA:68:ILE:HD13	0.92	1.08
3:P1:76:THR:HG22	3:P1:79:ARG:HE	1.14	1.08
5:A2:191:GLN:HA	7:d9:75:GLN:NE2	1.66	1.08
2:H2:119:ILE:HD11	13:H2:1001:CYC:HMA1	1.34	1.08
2:B3:30:GLY:HA3	2:J3:30:GLY:HA3	1.29	1.08
3:C4:152:GLY:HA3	13:C4:302:CYC:CMD	1.84	1.08
3:K4:40:ASP:OD2	13:K4:202:CYC:NA	1.85	1.08
3:V4:127:SER:HB2	13:V4:202:CYC:CBB	1.83	1.08
13:A5:303:CYC:HAC2	3:G5:83:CYS:CA	1.82	1.08
3:P5:89:ILE:HG12	13:P5:201:CYC:HBB3	1.33	1.08
2:B6:22:ASN:O	2:B6:26:GLN:HG3	1.52	1.08
6:A7:71:GLN:HG3	6:A7:77:ILE:HD12	1.25	1.08
7:X8:13:ALA:HB2	10:19:958:ARG:HH21	1.09	1.08
7:w9:78:THR:HG23	5:AA:223:ALA:HB1	1.34	1.08
2:DA:34:ARG:NH1	2:DA:150:GLU:HB2	1.68	1.08
3:RA:39:LEU:HD23	13:RA:201:CYC:HBB3	1.16	1.08
1:A1:199:LEU:HD21	7:c8:76:GLU:HA	1.33	1.08
3:C2:154:CYS:CB	13:C2:202:CYC:HAC2	1.83	1.08
3:E2:87:MET:HE1	13:E2:201:CYC:CBC	1.83	1.08
3:G2:154:CYS:SG	13:G2:201:CYC:HBC2	1.93	1.08
3:P2:89:ILE:HG21	13:P2:201:CYC:HBB3	1.14	1.08
2:Q2:91:HIS:HB3	13:Q2:201:CYC:HAB1	1.15	1.08
3:V2:150:THR:OG1	13:V2:201:CYC:HAA2	0.93	1.08
6:A3:104:ARG:O	6:A3:108:ILE:HG13	1.51	1.08
3:E3:44:ARG:NH1	3:E3:145:ASP:O	1.85	1.08
3:E3:87:MET:HE1	13:E3:201:CYC:CBC	1.83	1.08
3:I4:40:ASP:OD2	13:I4:202:CYC:NA	1.87	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y4:29:ARG:HD3	13:Z4:201:CYC:OC	1.52	1.08
3:E6:44:ARG:NH1	3:E6:145:ASP:O	1.85	1.08
2:Q6:119:ILE:HD11	13:Q6:201:CYC:HMA1	1.35	1.08
2:S6:119:ILE:HD11	13:S6:1001:CYC:HMA1	1.31	1.08
6:A7:129:ILE:HD13	3:C7:85:ARG:NH1	1.67	1.08
2:B7:22:ASN:O	2:B7:26:GLN:HG3	1.52	1.08
9:i8:40:GLU:OE2	10:09:1015:ARG:NH1	1.86	1.08
3:XA:93:TYR:HE2	13:XA:201:CYC:CBB	1.67	1.08
2:H1:29:ARG:HD3	13:I1:202:CYC:OC	1.50	1.08
3:K1:83:CYS:CB	13:K1:201:CYC:C2B	2.31	1.08
2:D2:34:ARG:NH1	2:D2:146:GLN:HE21	1.50	1.08
3:E2:44:ARG:NH1	3:E2:145:ASP:O	1.85	1.08
2:Y2:85:CYS:SG	13:Y2:201:CYC:HAC2	1.94	1.08
2:B3:31:ARG:HH21	2:B3:35:ALA:CB	1.65	1.08
1:A4:195:ILE:HD12	8:a8:63:TYR:HE1	0.92	1.08
1:A4:199:LEU:HD21	7:V8:76:GLU:HA	1.26	1.08
2:F5:34:ARG:NH2	13:M5:1003:CYC:HAC2	1.69	1.08
2:F5:62:GLN:NE2	3:G7:71:GLY:CA	2.16	1.08
3:G5:154:CYS:SG	13:G5:201:CYC:C2C	2.41	1.08
3:C6:154:CYS:CB	13:C6:202:CYC:HAC2	1.83	1.08
2:D6:31:ARG:HH21	2:D6:35:ALA:HB2	1.13	1.08
3:G6:154:CYS:SG	13:G6:201:CYC:H2C	1.93	1.08
7:O8:68:PRO:HD2	5:AA:231:ASN:CG	1.79	1.08
7:S8:25:ARG:HD2	7:w9:25:ARG:CZ	1.83	1.08
13:AA:303:CYC:HAC2	3:GA:83:CYS:CA	1.82	1.08
2:L1:40:GLU:HG2	2:J3:140:ASN:HD21	1.19	1.07
2:B2:30:GLY:HA3	2:J2:30:GLY:HA3	1.28	1.07
2:B4:85:CYS:HA	13:B4:1001:CYC:HAC2	1.10	1.07
3:K4:83:CYS:CB	13:K4:201:CYC:C2B	2.31	1.07
5:A5:44:ILE:HG21	5:A5:75:LYS:HG2	1.28	1.07
5:A5:60:GLU:O	5:A5:62:LEU:HG	1.53	1.07
5:A5:205:LYS:HD2	8:z9:63:TYR:CB	1.83	1.07
5:A5:228:ASN:ND2	7:q9:59:PHE:HB3	1.67	1.07
2:B5:31:ARG:HH11	2:B5:103:GLY:HA3	1.15	1.07
3:G6:82:ALA:HB3	13:G6:202:CYC:HMD1	1.33	1.07
2:Y6:85:CYS:SG	13:Y6:201:CYC:HAC2	1.94	1.07
3:C7:58:ARG:NH2	2:D7:73:PRO:CB	2.17	1.07
3:C7:58:ARG:CZ	2:D7:73:PRO:HB2	1.83	1.07
7:S8:20:PRO:CG	7:w9:101:VAL:HG13	1.85	1.07
8:m8:144:ALA:CB	8:e9:29:LYS:HZ3	1.59	1.07
5:AA:60:GLU:O	5:AA:62:LEU:HG	1.53	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VA:89:ILE:HG12	13:VA:201:CYC:HMC1	1.11	1.07
2:B1:83:SER:HB2	8:d8:27:LYS:CG	1.75	1.07
2:H1:34:ARG:NH1	2:H1:150:GLU:HB2	1.69	1.07
3:X1:93:TYR:CE2	13:X1:201:CYC:HBB1	1.87	1.07
3:C2:58:ARG:NH2	2:D2:73:PRO:CB	2.17	1.07
2:H2:29:ARG:HH12	13:I2:202:CYC:HMD2	1.13	1.07
2:B3:123:PHE:CD2	13:B3:1001:CYC:HAA2	1.89	1.07
5:A5:241:ILE:HG21	7:A9:82:LEU:HD12	1.32	1.07
4:N5:160:GLN:CG	13:T5:201:CYC:OC	2.03	1.07
2:B6:50:GLN:CG	7:T9:57:GLN:NE2	2.17	1.07
3:P6:89:ILE:HG21	13:P6:201:CYC:HBB3	1.14	1.07
7:w9:73:TYR:OH	2:BA:79:SER:HB3	1.51	1.07
3:K1:40:ASP:OD2	13:K1:202:CYC:NA	1.86	1.07
3:K1:79:ARG:CG	13:K1:201:CYC:O1A	2.03	1.07
3:T1:152:GLY:HA3	13:T1:201:CYC:CMD	1.84	1.07
3:C2:58:ARG:CZ	2:D2:73:PRO:HB2	1.83	1.07
3:I2:87:MET:HE1	13:I2:201:CYC:HBC2	1.18	1.07
3:X2:83:CYS:CB	13:X2:201:CYC:HAC2	1.84	1.07
6:A3:14:ASN:C	13:E3:201:CYC:CMA	2.27	1.07
3:G3:154:CYS:SG	13:G3:202:CYC:HBC2	1.93	1.07
3:T4:127:SER:HB2	13:T4:202:CYC:HBB1	1.12	1.07
3:P5:154:CYS:SG	13:P5:202:CYC:HMB1	1.95	1.07
3:X5:154:CYS:SG	13:X5:202:CYC:CMB	2.41	1.07
3:Z5:150:THR:OG1	13:Z5:202:CYC:HAA2	1.54	1.07
6:A7:106:VAL:HG22	6:A7:131:ILE:HD11	1.14	1.07
7:Q8:63:PRO:HB3	10:19:1126:THR:HG21	1.33	1.07
13:Y8:1001:CYC:OB	9:b8:21:ARG:CG	2.03	1.07
9:i8:40:GLU:OE2	10:09:1015:ARG:CZ	2.03	1.07
3:GA:39:LEU:HD23	13:GA:1002:CYC:HBB3	1.08	1.07
3:PA:154:CYS:SG	13:PA:202:CYC:HMB1	1.95	1.07
3:XA:154:CYS:SG	13:XA:202:CYC:CMB	2.41	1.07
2:B1:83:SER:HB3	8:d8:27:LYS:HG3	1.31	1.07
5:A2:222:LEU:CD2	7:X9:82:LEU:CD1	2.32	1.07
5:A2:246:ALA:CB	7:J8:79:ALA:HB1	1.79	1.07
6:A3:53:ILE:HA	6:A3:112:ARG:HD3	1.35	1.07
1:A4:209:THR:HG21	7:V8:67:SER:HA	1.27	1.07
3:K4:79:ARG:HA	13:K4:201:CYC:O1A	1.52	1.07
2:L4:51:ARG:HH22	3:C7:148:GLY:CA	1.65	1.07
3:P4:76:THR:HG22	3:P4:79:ARG:HE	1.14	1.07
5:A5:205:LYS:HD2	8:z9:63:TYR:HB3	1.16	1.07
2:B6:123:PHE:CD2	13:B6:1001:CYC:HAA2	1.89	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C6:58:ARG:NH2	2:D6:73:PRO:CB	2.17	1.07
2:F6:119:ILE:HD11	13:F6:1001:CYC:HMA1	1.20	1.07
3:E7:44:ARG:NH1	3:E7:145:ASP:O	1.86	1.07
2:BA:25:LEU:HB3	13:CA:201:CYC:HBB1	1.08	1.07
4:NA:91:PHE:HE1	13:NA:301:CYC:HAB2	0.90	1.07
3:RA:39:LEU:HD23	13:RA:201:CYC:HBB2	1.28	1.07
3:G1:79:ARG:O	13:G1:202:CYC:HMD1	1.53	1.07
3:I1:40:ASP:OD2	13:I1:202:CYC:NA	1.87	1.07
3:P1:93:TYR:HE2	13:P1:201:CYC:HBB1	0.95	1.07
2:B2:50:GLN:HG3	7:k9:57:GLN:NE2	1.69	1.07
4:N2:154:PHE:CE1	4:N2:172:TYR:OH	2.08	1.07
3:C3:58:ARG:NH2	2:D3:73:PRO:CB	2.17	1.07
3:K4:79:ARG:CG	13:K4:201:CYC:O1A	2.03	1.07
3:V4:127:SER:CB	13:V4:202:CYC:CBB	2.33	1.07
5:A5:228:ASN:ND2	7:q9:59:PHE:O	1.85	1.07
3:X5:93:TYR:HE2	13:X5:201:CYC:CBB	1.67	1.07
2:B7:31:ARG:HH21	2:B7:35:ALA:HB2	0.94	1.07
3:G7:82:ALA:HB3	13:G7:201:CYC:HMD1	1.33	1.07
7:n8:15:ALA:CB	10:09:989:GLN:HA	1.84	1.07
7:t8:51:VAL:HG11	10:19:930:PHE:CE1	1.89	1.07
10:19:986:PHE:HZ	13:19:1201:CYC:O2A	0.74	1.07
5:AA:163:GLN:OE1	5:AA:166:ARG:HG3	1.54	1.07
3:EA:39:LEU:HD21	13:EA:201:CYC:CBB	1.85	1.07
4:NA:160:GLN:CG	13:TA:201:CYC:OC	2.03	1.07
3:VA:60:LEU:HD21	13:VA:201:CYC:HBB2	1.27	1.07
3:P1:77:ASN:ND2	2:Q1:116:LEU:HA	1.69	1.06
4:N2:10:LEU:CB	4:N2:12:THR:HG23	1.86	1.06
6:A3:101:SER:HB3	3:C3:112:ASN:HD22	1.12	1.06
3:Z5:87:MET:HE3	13:Z5:201:CYC:CBC	1.85	1.06
3:Z5:157:LEU:H	3:Z5:157:LEU:HD23	1.20	1.06
3:M6:87:MET:HE3	13:N6:301:CYC:HBC1	1.34	1.06
2:D7:31:ARG:HH21	2:D7:35:ALA:HB2	1.13	1.06
9:G8:36:ASN:HD21	10:09:586:ARG:NH2	1.52	1.06
2:FA:34:ARG:HE	13:MA:1003:CYC:H2C	1.14	1.06
3:PA:68:ILE:HD13	13:PA:203:CYC:O2A	1.54	1.06
3:ZA:39:LEU:HD23	13:ZA:202:CYC:HMC3	1.28	1.06
4:N1:63:ARG:HG2	13:V1:202:CYC:CGD	1.86	1.06
13:Q1:202:CYC:ND	3:R1:40:ASP:OD2	1.88	1.06
3:T1:128:VAL:HG22	13:T1:202:CYC:HMB2	1.08	1.06
3:V1:36:ASN:ND2	13:V1:201:CYC:CAD	2.18	1.06
2:H3:31:ARG:HH11	2:H3:103:GLY:HA2	1.06	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C5:68:ILE:HD13	13:D5:1001:CYC:CGA	1.85	1.06
5:A6:250:ARG:CA	8:B8:63:TYR:O	2.02	1.06
9:b8:21:ARG:NH2	10:19:963:THR:CB	2.17	1.06
2:JA:32:TYR:CD1	3:KA:35:GLY:HA3	1.90	1.06
3:X1:89:ILE:HG21	13:X1:201:CYC:HBB3	1.34	1.06
3:V2:154:CYS:SG	13:V2:201:CYC:CAB	2.43	1.06
3:G3:82:ALA:HB3	13:G3:201:CYC:HMD1	1.33	1.06
4:N4:63:ARG:HG2	13:V4:202:CYC:CGD	1.86	1.06
3:T4:152:GLY:HA3	13:T4:201:CYC:CMD	1.84	1.06
5:A5:201:PHE:CE1	8:z9:63:TYR:CD1	2.42	1.06
5:A5:205:LYS:CE	8:z9:63:TYR:HB3	1.84	1.06
5:A5:241:ILE:HD12	7:A9:78:THR:HG21	1.37	1.06
3:G5:39:LEU:HD23	13:G5:201:CYC:HBB3	1.08	1.06
2:W6:119:ILE:CD1	13:W6:202:CYC:HMA1	1.85	1.06
7:O8:15:ALA:HB2	10:09:765:GLU:HA	1.08	1.06
8:o8:109:VAL:HG12	13:o8:1001:CYC:HAB1	1.18	1.06
3:GA:154:CYS:SG	13:GA:1002:CYC:C2C	2.41	1.06
1:A1:201:LEU:HG	7:c8:82:LEU:CD1	1.85	1.06
3:C1:152:GLY:HA3	13:C1:302:CYC:CMD	1.84	1.06
3:P1:77:ASN:HD21	2:Q1:116:LEU:HA	0.92	1.06
5:A2:230:GLY:H	7:X9:66:VAL:CG1	1.68	1.06
2:B2:123:PHE:CD2	13:B2:1001:CYC:HAA2	1.89	1.06
2:W2:31:ARG:NH2	2:W2:35:ALA:CB	2.18	1.06
1:A4:201:LEU:HG	7:V8:82:LEU:HD13	1.34	1.06
2:B4:85:CYS:SG	13:B4:1001:CYC:H2C	1.96	1.06
5:A5:205:LYS:CE	8:z9:63:TYR:O	2.03	1.06
5:A5:249:ASN:HB3	8:F9:68:ARG:NH2	1.70	1.06
3:R5:68:ILE:CD1	13:S5:1001:CYC:O1A	2.04	1.06
3:C6:83:CYS:HB2	13:C6:201:CYC:HAC2	1.06	1.06
2:Y6:119:ILE:HD11	13:Y6:201:CYC:CMA	1.86	1.06
8:t9:63:TYR:CD1	5:AA:201:PHE:CE1	2.43	1.06
3:ZA:150:THR:OG1	13:ZA:202:CYC:HAA2	1.54	1.06
1:A1:195:ILE:HG12	7:c8:80:THR:HG22	1.35	1.06
2:B2:31:ARG:HH21	2:B2:35:ALA:HB2	0.94	1.06
3:E2:44:ARG:NH2	3:E2:149:ILE:CD1	2.19	1.06
2:Q2:85:CYS:SG	13:Q2:201:CYC:HAC2	1.95	1.06
2:J4:34:ARG:NH1	2:J4:150:GLU:HB2	1.70	1.06
3:K4:121:LEU:HD23	13:K4:201:CYC:CGD	1.86	1.06
2:O4:119:ILE:HD13	13:O4:1001:CYC:HMA2	1.31	1.06
3:V4:83:CYS:SG	13:V4:202:CYC:C2B	2.44	1.06
3:P5:154:CYS:SG	13:P5:202:CYC:CMB	2.43	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:14:ASN:C	13:E7:201:CYC:CMA	2.27	1.06
8:B8:84:ARG:NE	10:09:572:ILE:HD11	1.71	1.06
8:t9:63:TYR:C	5:AA:205:LYS:NZ	2.03	1.06
4:NA:91:PHE:HE1	13:NA:301:CYC:CAB	1.68	1.06
2:B1:85:CYS:HA	13:B1:1001:CYC:CAC	1.86	1.05
2:B1:85:CYS:SG	13:B1:1001:CYC:H2C	1.96	1.05
3:K1:121:LEU:HD23	13:K1:201:CYC:CGD	1.86	1.05
3:T1:82:ALA:HB2	13:T1:202:CYC:HAA2	1.32	1.05
3:V1:127:SER:CB	13:V1:202:CYC:CBB	2.33	1.05
3:G2:34:GLU:OE2	3:G2:157:LEU:HD23	1.51	1.05
2:W2:119:ILE:CD1	13:W2:202:CYC:HMA1	1.85	1.05
6:A3:63:ASN:CG	6:A3:91:VAL:HG21	1.80	1.05
2:B3:31:ARG:HH21	2:B3:35:ALA:HB2	0.94	1.05
3:M3:87:MET:HE2	13:N3:301:CYC:HBC1	1.37	1.05
2:H4:34:ARG:NH1	2:H4:150:GLU:HB2	1.69	1.05
3:P4:77:ASN:ND2	2:Q4:116:LEU:HA	1.69	1.05
3:V4:36:ASN:ND2	13:V4:201:CYC:CAD	2.18	1.05
5:A5:241:ILE:HD13	7:A9:78:THR:HG23	1.36	1.05
2:L5:32:TYR:HE1	3:M5:35:GLY:HA2	1.17	1.05
5:A6:191:GLN:HA	7:N9:75:GLN:NE2	1.70	1.05
4:N6:10:LEU:HB3	4:N6:12:THR:HG23	1.37	1.05
4:N6:10:LEU:CB	4:N6:12:THR:HG23	1.86	1.05
3:X6:83:CYS:CB	13:X6:201:CYC:HAC2	1.84	1.05
3:E7:44:ARG:NH2	3:E7:149:ILE:CD1	2.19	1.05
9:i8:40:GLU:OE2	10:09:1015:ARG:NH2	1.87	1.05
7:n8:15:ALA:HB1	10:09:989:GLN:HA	1.11	1.05
10:19:400:THR:OG1	9:39:24:GLN:NE2	1.89	1.05
5:AA:60:GLU:HG3	5:AA:65:ASN:HD22	0.96	1.05
3:GA:39:LEU:CD2	13:GA:1002:CYC:HBB2	1.84	1.05
3:E2:44:ARG:HH21	3:E2:149:ILE:CD1	1.69	1.05
3:M3:87:MET:HE3	13:N3:301:CYC:HBC1	1.34	1.05
3:P4:77:ASN:HD21	2:Q4:116:LEU:HA	0.92	1.05
2:D5:29:ARG:NH2	2:D5:33:GLU:OE2	1.89	1.05
3:E5:152:GLY:HA3	13:E5:201:CYC:HMD1	1.38	1.05
3:P5:68:ILE:CD1	13:P5:203:CYC:O1A	2.03	1.05
5:A6:229:GLN:C	7:I9:66:VAL:HG11	1.79	1.05
2:Q6:85:CYS:SG	13:Q6:201:CYC:HAC2	1.95	1.05
3:V6:154:CYS:SG	13:V6:201:CYC:CAB	2.43	1.05
6:A7:63:ASN:CG	6:A7:91:VAL:HG21	1.80	1.05
9:49:12:PRO:HG3	9:49:47:ALA:O	1.55	1.05
8:t9:63:TYR:O	5:AA:205:LYS:CE	2.04	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:w9:66:VAL:HG11	5:AA:228:ASN:O	1.56	1.05
3:PA:154:CYS:SG	13:PA:202:CYC:CMB	2.43	1.05
2:F1:119:ILE:CD1	13:F1:1001:CYC:HMA1	1.86	1.05
3:G2:40:ASP:OD2	3:G2:149:ILE:HD12	1.56	1.05
2:Q2:119:ILE:HD11	13:Q2:201:CYC:HMA1	1.35	1.05
6:A3:11:SER:OG	6:A3:119:TYR:HB3	1.55	1.05
3:G4:79:ARG:O	13:G4:202:CYC:HMD1	1.53	1.05
4:N5:92:GLN:HG2	4:N5:118:LEU:HD21	1.33	1.05
3:P5:68:ILE:HD13	13:P5:203:CYC:O2A	1.54	1.05
6:A7:80:ARG:CD	6:A7:144:LEU:HD21	1.85	1.05
2:B7:123:PHE:CD2	13:B7:1001:CYC:HAA2	1.89	1.05
3:CA:68:ILE:HD13	13:DA:1001:CYC:CGA	1.85	1.05
1:A1:195:ILE:HG21	7:c8:80:THR:CG2	1.66	1.05
3:X1:83:CYS:SG	13:X1:201:CYC:NC	2.29	1.05
5:A2:222:LEU:HD23	7:X9:82:LEU:CD1	1.85	1.05
6:A3:84:ARG:HH21	6:A3:144:LEU:HB3	1.11	1.05
3:E3:44:ARG:NH2	3:E3:149:ILE:CD1	2.19	1.05
2:B4:85:CYS:HA	13:B4:1001:CYC:CAC	1.86	1.05
13:Q4:202:CYC:ND	3:R4:40:ASP:OD2	1.88	1.05
5:A5:163:GLN:OE1	5:A5:166:ARG:HG3	1.54	1.05
3:G5:39:LEU:CD2	13:G5:201:CYC:HBB2	1.84	1.05
2:J5:32:TYR:CD1	3:K5:35:GLY:HA3	1.90	1.05
2:W6:31:ARG:NH2	2:W6:35:ALA:CB	2.18	1.05
3:RA:68:ILE:CD1	13:SA:1001:CYC:O1A	2.04	1.05
3:P1:127:SER:CB	13:P1:201:CYC:CMC	2.34	1.05
2:Y2:74:GLN:NE2	2:Y2:124:ASP:HB2	1.72	1.05
4:N5:91:PHE:HE1	13:N5:301:CYC:CAB	1.68	1.05
3:V5:89:ILE:HG12	13:V5:201:CYC:HMC1	1.11	1.05
8:k8:108:ARG:HH22	10:09:1029:THR:CA	1.70	1.05
10:09:948:GLY:HA3	13:09:1201:CYC:CGD	1.83	1.05
3:GA:39:LEU:CD2	13:GA:1002:CYC:HBB3	1.81	1.05
3:ZA:87:MET:HE3	13:ZA:201:CYC:CBC	1.85	1.05
5:A2:246:ALA:HB1	7:J8:79:ALA:CB	1.84	1.04
2:H2:31:ARG:NH1	2:H2:103:GLY:CA	2.13	1.04
2:Q2:88:ASP:HA	13:Q2:201:CYC:HMB2	1.34	1.04
3:P4:127:SER:CB	13:P4:201:CYC:CMC	2.34	1.04
5:A5:241:ILE:HD11	7:A9:78:THR:CG2	1.79	1.04
6:A7:11:SER:OG	6:A7:119:TYR:HB3	1.55	1.04
3:G7:40:ASP:OD2	3:G7:149:ILE:HD12	1.56	1.04
9:U8:43:ARG:CD	10:09:851:ASN:HD22	1.52	1.04
8:u8:119:SER:CB	10:19:1114:LYS:CE	2.23	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u8:119:SER:HB3	10:19:1114:LYS:HE3	1.30	1.04
2:FA:34:ARG:NH2	13:MA:1003:CYC:HAC2	1.69	1.04
3:PA:89:ILE:HG12	13:PA:201:CYC:HBB3	1.33	1.04
3:V1:127:SER:HB3	13:V1:202:CYC:HBB1	1.07	1.04
5:A2:228:ASN:HD21	7:X9:60:GLN:HG3	0.89	1.04
2:B2:31:ARG:NH2	2:B2:35:ALA:CB	2.21	1.04
6:A3:71:GLN:CD	6:A3:77:ILE:HD11	1.79	1.04
3:K4:79:ARG:HG2	13:K4:201:CYC:O1A	1.55	1.04
3:T4:127:SER:HB3	13:T4:202:CYC:CBB	1.81	1.04
2:J5:32:TYR:CE1	3:K5:35:GLY:CA	2.41	1.04
4:N5:91:PHE:HE1	13:N5:301:CYC:HAB2	0.90	1.04
3:E6:87:MET:CE	13:E6:201:CYC:HBC1	1.87	1.04
4:N6:154:PHE:CE1	4:N6:172:TYR:OH	2.08	1.04
6:A7:110:LEU:HD22	6:A7:114:LEU:HD12	1.39	1.04
2:DA:29:ARG:NH2	2:DA:33:GLU:OE2	1.89	1.04
3:PA:68:ILE:CD1	13:PA:203:CYC:O1A	2.03	1.04
5:A2:222:LEU:HD23	7:X9:82:LEU:HD13	1.10	1.04
3:X2:38:ARG:NH2	3:X2:98:ILE:O	1.90	1.04
6:A3:80:ARG:CD	6:A3:144:LEU:HD21	1.85	1.04
6:A3:88:LYS:NZ	6:A3:141:ASP:OD1	1.90	1.04
2:B4:136:HIS:CE1	2:B4:140:ASN:ND2	2.25	1.04
5:A6:246:ALA:HB1	7:C8:79:ALA:CB	1.81	1.04
6:A7:14:ASN:HA	13:E7:201:CYC:HMA3	1.11	1.04
13:N7:301:CYC:HHA	13:N7:301:CYC:HBA2	1.39	1.04
7:O8:68:PRO:HG2	5:AA:231:ASN:HD21	0.90	1.04
8:s8:69:PRO:O	10:19:936:SER:CB	2.04	1.04
2:B1:136:HIS:CE1	2:B1:140:ASN:ND2	2.25	1.04
3:K1:79:ARG:CA	13:K1:201:CYC:O1A	2.05	1.04
5:A2:223:ALA:HB1	7:X9:78:THR:CG2	1.88	1.04
3:G2:34:GLU:HG3	3:G2:157:LEU:HD21	1.04	1.04
2:O2:23:THR:HG23	2:O2:24:GLU:OE2	1.57	1.04
6:A3:110:LEU:HD22	6:A3:114:LEU:HD12	1.39	1.04
2:B3:31:ARG:NH2	2:B3:35:ALA:CB	2.21	1.04
3:E3:44:ARG:HH21	3:E3:149:ILE:CD1	1.69	1.04
3:K4:126:SER:CB	3:T4:12:GLN:CD	2.31	1.04
5:A5:205:LYS:NZ	8:z9:63:TYR:HB3	1.66	1.04
5:A5:205:LYS:NZ	8:z9:63:TYR:C	2.02	1.04
5:A5:239:PHE:CA	7:A9:52:LYS:HE2	1.87	1.04
3:E6:44:ARG:NH2	3:E6:149:ILE:CD1	2.19	1.04
3:Z6:151:LYS:HA	13:Z6:201:CYC:OB	1.58	1.04
6:A7:88:LYS:NZ	6:A7:141:ASP:OD1	1.90	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:L8:25:ARG:HG2	7:Z9:25:ARG:CZ	1.86	1.04
3:PA:89:ILE:HG13	13:PA:201:CYC:HBB3	1.35	1.04
1:A1:194:ASP:O	7:c8:83:ARG:HD3	1.55	1.04
2:D1:85:CYS:SG	13:D1:1001:CYC:HAC2	1.97	1.04
3:K1:79:ARG:HG2	13:K1:201:CYC:O1A	1.55	1.04
2:O2:119:ILE:CD1	13:O2:1001:CYC:CMA	2.34	1.04
2:Y2:119:ILE:CD1	13:Y2:201:CYC:CMA	2.36	1.04
2:Y2:119:ILE:HD11	13:Y2:201:CYC:CMA	1.86	1.04
2:D4:85:CYS:SG	13:D4:1001:CYC:HAC2	1.97	1.04
13:Q4:202:CYC:CMD	3:R4:152:GLY:HA3	1.88	1.04
5:A5:239:PHE:CD2	7:A9:52:LYS:CD	2.39	1.04
3:R5:44:ARG:HH12	3:R5:145:ASP:CG	1.65	1.04
3:E6:44:ARG:HH21	3:E6:149:ILE:CD1	1.69	1.04
3:E7:44:ARG:HH21	3:E7:149:ILE:CD1	1.69	1.04
3:G7:34:GLU:HG3	3:G7:157:LEU:HD21	1.04	1.04
13:TA:202:CYC:HBD1	13:TA:202:CYC:HHA	1.40	1.04
1:A1:46:ILE:HD13	1:A1:72:LEU:HD12	1.38	1.03
3:I1:89:ILE:HG21	13:I1:201:CYC:HBB3	1.40	1.03
2:J1:34:ARG:NH1	2:J1:150:GLU:HB2	1.70	1.03
3:M1:26:ASP:CG	2:J3:51:ARG:NH2	2.15	1.03
3:T1:127:SER:HB2	13:T1:202:CYC:HBB1	1.12	1.03
5:A2:246:ALA:HB3	7:J8:79:ALA:HB1	1.04	1.03
6:A3:14:ASN:HA	13:E3:201:CYC:HMA3	1.11	1.03
6:A3:104:ARG:NE	6:A3:108:ILE:HD11	1.72	1.03
6:A3:129:ILE:CD1	3:C3:85:ARG:HH11	1.71	1.03
2:H3:119:ILE:HD11	13:H3:1001:CYC:HMA1	1.34	1.03
13:I4:202:CYC:HBD1	13:I4:202:CYC:HHA	1.40	1.03
3:K4:79:ARG:CA	13:K4:201:CYC:O1A	2.05	1.03
3:M6:87:MET:HE2	13:N6:301:CYC:HBC1	1.37	1.03
2:O6:119:ILE:CD1	13:O6:1001:CYC:CMA	2.34	1.03
3:Z6:87:MET:HE1	13:Z6:202:CYC:HBC3	1.34	1.03
6:A7:129:ILE:CD1	3:C7:85:ARG:HH11	1.71	1.03
3:E7:87:MET:CE	13:E7:201:CYC:HBC1	1.87	1.03
7:p8:106:GLU:CD	10:19:1118:SER:HB2	1.83	1.03
5:AA:59:HIS:CD2	13:AA:303:CYC:O1A	2.11	1.03
2:WA:31:ARG:HH11	2:WA:103:GLY:HA3	1.24	1.03
1:A1:131:ILE:HG12	1:A1:139:PHE:CB	1.88	1.03
13:C1:302:CYC:HBD1	13:C1:302:CYC:HHA	1.40	1.03
13:E1:202:CYC:HBD1	13:E1:202:CYC:HHA	1.40	1.03
3:M2:87:MET:HE3	13:N2:301:CYC:HBC1	1.34	1.03
2:B4:53:ILE:CD1	8:W8:22:THR:HG21	1.88	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F4:119:ILE:CD1	13:F4:1001:CYC:HMA1	1.86	1.03
3:V4:127:SER:HB3	13:V4:202:CYC:HBB1	1.07	1.03
13:A5:303:CYC:OC	3:G5:74:ALA:HB2	1.58	1.03
13:G5:201:CYC:HBD1	13:G5:201:CYC:HHA	1.41	1.03
13:K6:201:CYC:HHA	13:K6:201:CYC:HBD1	1.41	1.03
13:C7:201:CYC:HHA	13:C7:201:CYC:HBD1	1.40	1.03
2:L7:31:ARG:HH21	2:L7:35:ALA:HB2	1.14	1.03
8:k8:108:ARG:NH2	10:09:1029:THR:CA	2.20	1.03
2:JA:32:TYR:CE1	3:KA:35:GLY:CA	2.41	1.03
3:RA:44:ARG:HH12	3:RA:145:ASP:CG	1.65	1.03
1:A1:201:LEU:HG	7:c8:82:LEU:HD13	1.34	1.03
3:K1:126:SER:CB	3:T1:12:GLN:CD	2.31	1.03
13:M1:201:CYC:HHA	13:M1:201:CYC:HBA2	1.39	1.03
3:V1:83:CYS:SG	13:V1:202:CYC:C2B	2.44	1.03
2:J2:119:ILE:CD1	13:J2:1001:CYC:CMA	2.35	1.03
3:Z2:87:MET:HE1	13:Z2:202:CYC:HBC3	1.34	1.03
3:E3:87:MET:CE	13:E3:201:CYC:HBC1	1.87	1.03
3:G3:71:GLY:CA	2:FA:62:GLN:OE1	2.05	1.03
13:M4:202:CYC:HBD1	13:M4:202:CYC:HHA	1.41	1.03
3:P5:89:ILE:HG13	13:P5:201:CYC:HBB3	1.35	1.03
5:A6:228:ASN:O	7:I9:66:VAL:HG21	1.57	1.03
3:G6:40:ASP:OD2	3:G6:149:ILE:HD12	1.56	1.03
2:O6:23:THR:HG23	2:O6:24:GLU:OE2	1.57	1.03
2:Y6:119:ILE:CD1	13:Y6:201:CYC:CMA	2.36	1.03
2:B7:31:ARG:NH2	2:B7:35:ALA:CB	2.20	1.03
3:G7:34:GLU:OE2	3:G7:157:LEU:HD23	1.51	1.03
2:H7:119:ILE:HD11	13:H7:1001:CYC:HMA1	1.34	1.03
13:M7:201:CYC:HBD1	13:M7:201:CYC:HHA	1.41	1.03
7:O8:20:PRO:CB	7:u9:151:SER:OG	2.06	1.03
3:RA:154:CYS:SG	13:RA:201:CYC:C3C	2.46	1.03
1:A1:210:VAL:O	7:l8:67:SER:OG	1.75	1.03
3:C1:18:GLU:OE1	7:c8:47:ARG:NH2	1.91	1.03
3:G1:82:ALA:HB3	13:G1:202:CYC:CMD	1.87	1.03
3:X1:83:CYS:HB3	13:X1:201:CYC:CAC	1.87	1.03
3:E2:87:MET:CE	13:E2:201:CYC:HBC1	1.87	1.03
6:A3:104:ARG:HD3	6:A3:108:ILE:HG13	1.37	1.03
13:C4:302:CYC:HBD1	13:C4:302:CYC:HHA	1.41	1.03
3:T4:128:VAL:HG22	13:T4:202:CYC:HMB2	1.08	1.03
2:B5:25:LEU:HB3	13:C5:201:CYC:HBB1	1.08	1.03
13:W6:201:CYC:HHA	13:W6:201:CYC:HBD1	1.41	1.03
13:E7:202:CYC:HBD1	13:E7:202:CYC:HHA	1.41	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:K7:202:CYC:HBD1	13:K7:202:CYC:HHA	1.41	1.03
8:f8:92:TYR:OH	9:i8:21:ARG:CD	2.05	1.03
8:o8:65:ASP:CB	10:09:1128:ARG:HB2	1.88	1.03
8:o8:82:CYS:SG	13:o8:1001:CYC:C1C	2.47	1.03
13:AA:303:CYC:OC	3:GA:74:ALA:HB2	1.58	1.03
13:GA:1002:CYC:HHA	13:GA:1002:CYC:HBD1	1.41	1.03
2:LA:32:TYR:HE1	3:MA:35:GLY:HA2	1.17	1.03
13:G1:201:CYC:HBD1	13:G1:201:CYC:HHA	1.41	1.03
13:N2:301:CYC:HHA	13:N2:301:CYC:HBA2	1.39	1.03
3:G3:34:GLU:HG3	3:G3:157:LEU:HD21	1.04	1.03
13:K3:201:CYC:HBD1	13:K3:201:CYC:HHA	1.40	1.03
3:G4:82:ALA:HB3	13:G4:202:CYC:CMD	1.87	1.03
13:P4:202:CYC:HBD1	13:P4:202:CYC:HHA	1.41	1.03
4:N5:62:LEU:CG	4:N5:72:PHE:CD1	2.42	1.03
3:R5:154:CYS:SG	13:R5:201:CYC:C3C	2.46	1.03
5:A6:230:GLY:N	7:I9:66:VAL:CG1	2.21	1.03
13:V6:201:CYC:HBD1	13:V6:201:CYC:HHA	1.41	1.03
7:A8:64:ASP:OD1	7:K9:69:GLY:HA3	1.55	1.03
7:E8:25:ARG:CD	7:K9:25:ARG:NH1	2.22	1.03
9:39:23:LEU:HD12	8:l9:88:TYR:HE2	0.88	1.03
3:IA:87:MET:CE	13:IA:201:CYC:HBC1	1.88	1.03
3:ZA:157:LEU:HD23	3:ZA:157:LEU:H	1.20	1.03
13:ZA:202:CYC:HHA	13:ZA:202:CYC:HBD1	1.41	1.03
2:D1:91:HIS:HB3	13:D1:1001:CYC:HAB1	1.41	1.02
13:Q1:202:CYC:CMD	3:R1:152:GLY:HA3	1.88	1.02
3:M2:157:LEU:O	3:M2:161:VAL:HG23	1.59	1.02
13:Z2:201:CYC:HBD1	13:Z2:201:CYC:HHA	1.41	1.02
3:I3:144:ASN:O	13:I3:202:CYC:HBB1	1.59	1.02
5:A5:17:VAL:HG11	13:A5:302:CYC:O2A	1.59	1.02
3:E5:39:LEU:HD21	13:E5:201:CYC:CBB	1.85	1.02
5:A6:215:ASP:OD1	8:H9:68:ARG:NE	1.92	1.02
3:C6:40:ASP:OD2	3:C6:149:ILE:HD11	1.59	1.02
3:E6:119:GLN:CD	8:a8:16:GLN:HE22	1.61	1.02
2:J6:119:ILE:CD1	13:J6:1001:CYC:CMA	2.35	1.02
8:o8:82:CYS:SG	13:o8:1001:CYC:CAC	2.47	1.02
2:BA:25:LEU:CB	13:CA:201:CYC:HBB1	1.88	1.02
1:A1:168:ARG:HH22	1:A1:172:LEU:HD13	1.23	1.02
6:A3:105:LEU:O	6:A3:109:THR:HG23	1.58	1.02
3:G3:40:ASP:OD2	3:G3:149:ILE:HD12	1.56	1.02
13:I3:202:CYC:HBD1	13:I3:202:CYC:HHA	1.40	1.02
1:A4:46:ILE:HD13	1:A4:72:LEU:HD12	1.38	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:84:ARG:HB2	4:N4:230:VAL:HG21	1.40	1.02
1:A4:168:ARG:HH21	1:A4:172:LEU:HD22	1.22	1.02
1:A4:195:ILE:HG12	7:V8:80:THR:HG22	1.40	1.02
3:K4:126:SER:HB3	3:T4:12:GLN:CD	1.85	1.02
13:K4:201:CYC:HBD1	13:K4:201:CYC:HHA	1.41	1.02
13:Z4:201:CYC:HBD1	13:Z4:201:CYC:HHA	1.41	1.02
13:E5:201:CYC:HBD1	13:E5:201:CYC:HHA	1.41	1.02
13:P5:202:CYC:HBD1	13:P5:202:CYC:HHA	1.41	1.02
13:G6:201:CYC:HBD1	13:G6:201:CYC:HHA	1.41	1.02
6:A7:104:ARG:NE	6:A7:108:ILE:HD11	1.72	1.02
3:M7:157:LEU:O	3:M7:161:VAL:HG23	1.60	1.02
3:G2:16:ARG:NH2	8:h8:148:LYS:HE2	1.73	1.02
4:N2:10:LEU:HB3	4:N2:12:THR:HG23	1.37	1.02
6:A3:57:HIS:ND1	3:G3:85:ARG:HB3	1.75	1.02
3:K3:83:CYS:HB2	13:K3:201:CYC:HMB1	1.41	1.02
3:M3:157:LEU:O	3:M3:161:VAL:HG23	1.60	1.02
5:A5:201:PHE:CD2	7:u9:76:GLU:HG2	1.94	1.02
2:B5:25:LEU:CB	13:C5:201:CYC:HBB1	1.88	1.02
13:M5:1002:CYC:HBA2	13:M5:1002:CYC:HHA	1.39	1.02
13:N5:301:CYC:CBC	3:R5:87:MET:CE	2.38	1.02
13:E6:202:CYC:HBD1	13:E6:202:CYC:HHA	1.41	1.02
2:H6:31:ARG:HD3	2:H6:35:ALA:HB2	1.40	1.02
3:EA:152:GLY:HA3	13:EA:201:CYC:HMD1	1.38	1.02
13:IA:202:CYC:HBD1	13:IA:202:CYC:HHA	1.41	1.02
13:XA:202:CYC:HBD1	13:XA:202:CYC:HHA	1.41	1.02
3:K1:83:CYS:HB2	13:K1:201:CYC:HMB3	1.39	1.02
13:C2:202:CYC:HHA	13:C2:202:CYC:HBD1	1.41	1.02
3:M2:87:MET:HE2	13:N2:301:CYC:HBC1	1.37	1.02
3:V2:44:ARG:NH2	3:V2:149:ILE:HG12	1.74	1.02
13:W2:203:CYC:HBD1	13:W2:203:CYC:HHA	1.41	1.02
3:C3:40:ASP:OD2	3:C3:149:ILE:HD11	1.59	1.02
13:E3:202:CYC:HBD1	13:E3:202:CYC:HHA	1.41	1.02
2:H3:31:ARG:NH1	2:H3:103:GLY:N	2.01	1.02
13:K3:202:CYC:HHA	13:K3:202:CYC:HBD1	1.41	1.02
5:A5:59:HIS:CD2	13:A5:303:CYC:O1A	2.11	1.02
2:B5:25:LEU:HB3	13:C5:201:CYC:CBB	1.88	1.02
3:V6:58:ARG:CZ	2:W6:73:PRO:CB	2.37	1.02
13:X6:202:CYC:HBD1	13:X6:202:CYC:HHA	1.41	1.02
13:I7:202:CYC:HBD1	13:I7:202:CYC:HHA	1.41	1.02
3:K7:83:CYS:CB	13:K7:201:CYC:CMB	2.38	1.02
7:H8:151:SER:OG	7:X9:20:PRO:HB3	1.58	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b8:21:ARG:HH22	10:19:963:THR:HB	0.85	1.02
8:f8:82:CYS:SG	13:f8:1001:CYC:CAC	2.48	1.02
3:MA:154:CYS:SG	13:MA:1003:CYC:C2B	2.48	1.02
3:K1:152:GLY:HA3	13:K1:202:CYC:CMA	1.90	1.02
13:M1:202:CYC:HBD1	13:M1:202:CYC:HHA	1.41	1.02
13:K2:202:CYC:HHA	13:K2:202:CYC:HBD1	1.41	1.02
1:A4:131:ILE:HG12	1:A4:139:PHE:CB	1.89	1.02
13:G4:201:CYC:HBD1	13:G4:201:CYC:HHA	1.41	1.02
13:Q4:202:CYC:HBD1	13:Q4:202:CYC:HHA	1.41	1.02
13:T5:202:CYC:HBD1	13:T5:202:CYC:HHA	1.40	1.02
3:V5:83:CYS:SG	13:V5:201:CYC:C4B	2.48	1.02
6:A7:80:ARG:HD2	6:A7:144:LEU:HD21	1.41	1.02
6:A7:105:LEU:O	6:A7:109:THR:HG23	1.58	1.02
3:C7:154:CYS:SG	13:C7:201:CYC:CAC	2.48	1.02
8:B8:109:VAL:HG12	13:B8:1001:CYC:CAB	1.90	1.02
8:D8:109:VAL:HG12	13:D8:1001:CYC:CAB	1.90	1.02
8:F8:82:CYS:SG	13:F8:1001:CYC:CAC	2.48	1.02
8:K8:109:VAL:HG12	13:K8:1001:CYC:CAB	1.90	1.02
8:R8:82:CYS:SG	13:R8:1001:CYC:CAC	2.48	1.02
8:d8:109:VAL:HG12	13:d8:1001:CYC:CAB	1.90	1.02
7:p8:106:GLU:OE1	10:19:1118:SER:CB	2.07	1.02
8:s8:109:VAL:HG12	13:s8:1001:CYC:CAB	1.90	1.02
7:t8:15:ALA:HB1	10:19:989:GLN:CA	1.90	1.02
8:u8:82:CYS:SG	13:19:1201:CYC:CAC	2.48	1.02
8:u8:109:VAL:HG12	13:19:1201:CYC:CAB	1.90	1.02
2:BA:25:LEU:HB3	13:CA:201:CYC:CBB	1.88	1.02
3:IA:93:TYR:HE2	13:IA:201:CYC:HBB1	1.25	1.02
3:VA:83:CYS:SG	13:VA:201:CYC:C4B	2.48	1.02
1:A1:212:PHE:CB	7:l8:66:VAL:O	2.06	1.01
2:B1:85:CYS:CA	13:B1:1001:CYC:HAC2	1.90	1.01
13:Q1:202:CYC:HBD1	13:Q1:202:CYC:HHA	1.41	1.01
3:K2:83:CYS:CB	13:K2:201:CYC:CMB	2.38	1.01
2:B5:62:GLN:HA	7:A9:60:GLN:HE22	1.23	1.01
3:I5:44:ARG:NH1	3:I5:145:ASP:OD1	1.94	1.01
3:M5:154:CYS:SG	13:M5:1003:CYC:C2B	2.48	1.01
3:V6:44:ARG:NH2	3:V6:149:ILE:HG12	1.74	1.01
2:Y6:74:GLN:NE2	2:Y6:124:ASP:HB2	1.72	1.01
2:J7:119:ILE:CD1	13:J7:1001:CYC:CMA	2.35	1.01
3:M7:87:MET:HE2	13:N7:301:CYC:HBC1	1.38	1.01
8:B8:82:CYS:SG	13:B8:1001:CYC:CAC	2.48	1.01
8:M8:109:VAL:HG12	13:M8:1001:CYC:CAB	1.90	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P8:109:VAL:HG12	13:P8:1001:CYC:CAB	1.90	1.01
8:W8:82:CYS:SG	13:W8:1001:CYC:CAC	2.48	1.01
9:29:41:GLN:NE2	13:29:1001:CYC:C4B	2.21	1.01
7:o9:76:GLU:HG2	5:AA:201:PHE:CD2	1.95	1.01
13:MA:1002:CYC:HHA	13:MA:1002:CYC:HBA2	1.39	1.01
13:T1:201:CYC:HBD1	13:T1:201:CYC:HHA	1.40	1.01
2:U2:119:ILE:HD11	13:U2:202:CYC:CMA	1.90	1.01
3:V2:58:ARG:CZ	2:W2:73:PRO:CB	2.37	1.01
13:A3:301:CYC:HAB2	3:C3:110:CYS:HA	1.42	1.01
5:A5:179:TYR:OH	13:A5:303:CYC:O1D	1.78	1.01
3:P5:68:ILE:CD1	13:P5:203:CYC:O2A	2.08	1.01
3:T5:154:CYS:SG	13:T5:202:CYC:C3C	2.47	1.01
13:V5:202:CYC:HHA	13:V5:202:CYC:HBD1	1.41	1.01
13:T6:201:CYC:CAB	2:Y6:34:ARG:CZ	2.38	1.01
6:A7:104:ARG:HD3	6:A7:108:ILE:HG13	1.37	1.01
8:m8:109:VAL:HG12	13:09:1201:CYC:CAB	1.90	1.01
13:I1:202:CYC:HBD1	13:I1:202:CYC:HHA	1.40	1.01
13:P1:202:CYC:HBD1	13:P1:202:CYC:HHA	1.41	1.01
3:T1:127:SER:HB3	13:T1:202:CYC:CBB	1.81	1.01
3:X1:83:CYS:HB3	13:X1:201:CYC:HAC2	1.01	1.01
5:A2:240:ASP:O	5:A2:242:ASP:N	1.91	1.01
13:E2:202:CYC:HBD1	13:E2:202:CYC:HHA	1.41	1.01
2:W2:119:ILE:CD1	13:W2:202:CYC:CMA	2.37	1.01
13:B3:1001:CYC:O1D	3:G3:58:ARG:NH1	1.94	1.01
13:N3:301:CYC:HHA	13:N3:301:CYC:HBA2	1.39	1.01
2:B6:31:ARG:NH2	2:B6:35:ALA:CB	2.21	1.01
3:I6:144:ASN:O	13:I6:202:CYC:HBB1	1.59	1.01
3:R6:121:LEU:HD11	13:R6:1001:CYC:CAA	1.90	1.01
3:K7:83:CYS:HB2	13:K7:201:CYC:HMB1	1.41	1.01
8:D8:82:CYS:SG	13:D8:1001:CYC:CAC	2.48	1.01
9:N8:25:ASN:OD1	10:19:657:GLU:HB3	1.59	1.01
7:o9:79:ALA:HB1	5:AA:198:LEU:HB3	1.40	1.01
7:w9:66:VAL:HG12	5:AA:230:GLY:H	1.00	1.01
5:AA:44:ILE:HG21	5:AA:75:LYS:HG2	1.42	1.01
13:KA:201:CYC:HBD1	13:KA:201:CYC:HHA	1.41	1.01
4:NA:62:LEU:CG	4:NA:72:PHE:CD1	2.42	1.01
3:TA:154:CYS:SG	13:TA:202:CYC:C3C	2.47	1.01
3:K1:126:SER:HB3	3:T1:12:GLN:CD	1.85	1.01
13:K1:202:CYC:HHA	13:K1:202:CYC:HBD1	1.41	1.01
13:X1:202:CYC:HBD1	13:X1:202:CYC:HHA	1.41	1.01
3:C2:83:CYS:HB2	13:C2:201:CYC:HAC2	1.06	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F2:26:GLN:OE1	2:L2:31:ARG:HG2	1.61	1.01
3:K2:83:CYS:CB	13:K2:201:CYC:C2B	2.39	1.01
13:M4:201:CYC:HHA	13:M4:201:CYC:HBA2	1.39	1.01
3:T4:76:THR:CG2	3:T4:79:ARG:HE	1.74	1.01
3:M5:154:CYS:SG	13:M5:1003:CYC:HAB1	2.00	1.01
3:Z5:154:CYS:SG	13:Z5:202:CYC:HMB2	2.00	1.01
13:C6:202:CYC:HBD1	13:C6:202:CYC:HHA	1.40	1.01
2:U6:119:ILE:HD11	13:U6:202:CYC:CMA	1.90	1.01
3:C7:40:ASP:OD2	3:C7:149:ILE:HD11	1.59	1.01
8:R8:109:VAL:HG12	13:R8:1001:CYC:CAB	1.90	1.01
8:T8:82:CYS:SG	13:T8:1001:CYC:CAC	2.48	1.01
8:W8:109:VAL:HG12	13:W8:1001:CYC:CAB	1.90	1.01
8:Y8:82:CYS:SG	13:Y8:1001:CYC:CAC	2.48	1.01
7:Z8:56:ASP:OD2	7:I9:74:GLY:CA	2.08	1.01
8:h8:82:CYS:SG	13:h8:1001:CYC:CAC	2.48	1.01
8:k8:82:CYS:SG	13:k8:1001:CYC:CAC	2.48	1.01
8:k8:109:VAL:HG12	13:k8:1001:CYC:CAB	1.90	1.01
7:n8:110:ILE:HD11	10:09:954:ARG:NH2	1.75	1.01
8:q8:82:CYS:SG	13:q8:1001:CYC:CAC	2.48	1.01
8:q8:109:VAL:HG12	13:q8:1001:CYC:CAB	1.90	1.01
5:AA:179:TYR:OH	13:AA:303:CYC:O1D	1.78	1.01
13:NA:301:CYC:CBC	3:RA:87:MET:CE	2.38	1.01
13:PA:202:CYC:HBD1	13:PA:202:CYC:HHA	1.41	1.01
3:T1:82:ALA:CB	13:T1:202:CYC:C2A	2.38	1.01
13:B2:1001:CYC:O1D	3:G2:58:ARG:NH1	1.94	1.01
13:T2:201:CYC:HHA	13:T2:201:CYC:HBD1	1.40	1.01
3:Z2:151:LYS:HA	13:Z2:201:CYC:OB	1.58	1.01
3:C3:154:CYS:SG	13:C3:201:CYC:CAC	2.48	1.01
2:J3:119:ILE:CD1	13:J3:1001:CYC:CMA	2.35	1.01
3:T4:82:ALA:CB	13:T4:202:CYC:C2A	2.37	1.01
3:I5:154:CYS:SG	13:I5:202:CYC:CAB	2.49	1.01
13:X5:202:CYC:HBD1	13:X5:202:CYC:HHA	1.41	1.01
3:C6:154:CYS:SG	13:C6:202:CYC:CAC	2.48	1.01
13:K6:202:CYC:HBD1	13:K6:202:CYC:HHA	1.41	1.01
3:I7:144:ASN:O	13:I7:202:CYC:HBB1	1.59	1.01
8:M8:82:CYS:SG	13:M8:1001:CYC:CAC	2.48	1.01
8:a8:82:CYS:SG	13:b8:1001:CYC:CAC	2.48	1.01
7:t8:15:ALA:CB	10:19:989:GLN:HA	1.91	1.01
3:MA:154:CYS:SG	13:MA:1003:CYC:HAB1	2.00	1.01
3:XA:39:LEU:CD2	13:XA:202:CYC:HMC3	1.90	1.01
2:H2:31:ARG:NH2	2:H2:35:ALA:HA	1.76	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N2:63:ARG:HB3	13:V2:202:CYC:O2D	1.58	1.00
6:A3:13:GLN:HG2	6:A3:119:TYR:HE2	0.86	1.00
6:A3:80:ARG:HD2	6:A3:144:LEU:HD21	1.41	1.00
3:K3:83:CYS:CB	13:K3:201:CYC:C2B	2.39	1.00
3:K3:83:CYS:CB	13:K3:201:CYC:CMB	2.38	1.00
5:A5:239:PHE:CD2	7:A9:52:LYS:HD3	1.96	1.00
3:G6:16:ARG:HH22	8:a8:148:LYS:HE2	0.85	1.00
2:W6:29:ARG:HB2	13:X6:202:CYC:OC	1.61	1.00
6:A7:57:HIS:ND1	3:G7:85:ARG:HB3	1.75	1.00
6:A7:71:GLN:CG	6:A7:77:ILE:HD12	1.91	1.00
6:A7:129:ILE:CD1	3:C7:85:ARG:NH1	2.24	1.00
3:K7:83:CYS:CB	13:K7:201:CYC:C2B	2.39	1.00
8:K8:82:CYS:SG	13:K8:1001:CYC:CAC	2.48	1.00
8:P8:82:CYS:SG	13:P8:1001:CYC:CAC	2.48	1.00
8:T8:109:VAL:HG12	13:T8:1001:CYC:CAB	1.90	1.00
8:m8:82:CYS:SG	13:09:1201:CYC:CAC	2.48	1.00
8:o8:115:GLU:CB	10:09:1114:LYS:NZ	1.85	1.00
8:s8:144:ALA:CB	8:O9:29:LYS:HZ3	1.55	1.00
8:t9:63:TYR:CE1	5:AA:201:PHE:CE1	2.49	1.00
3:IA:44:ARG:NH1	3:IA:145:ASP:OD1	1.93	1.00
3:PA:89:ILE:CG1	13:PA:201:CYC:CBB	2.39	1.00
2:L1:51:ARG:HH22	3:C3:148:GLY:CA	1.74	1.00
13:E4:202:CYC:HBD1	13:E4:202:CYC:HHA	1.41	1.00
3:K4:83:CYS:HB2	13:K4:201:CYC:HMB3	1.39	1.00
3:K4:152:GLY:HA3	13:K4:202:CYC:CMA	1.90	1.00
13:K4:202:CYC:HBD1	13:K4:202:CYC:HHA	1.41	1.00
3:T4:154:CYS:SG	13:T4:201:CYC:C2C	2.49	1.00
5:A6:219:PHE:HZ	7:I9:86:ASP:OD2	1.43	1.00
3:G6:34:GLU:CG	3:G6:157:LEU:CD2	2.40	1.00
3:G6:34:GLU:HG3	3:G6:157:LEU:HD21	1.04	1.00
3:K6:83:CYS:CB	13:K6:201:CYC:C2B	2.39	1.00
3:K6:83:CYS:CB	13:K6:201:CYC:CMB	2.38	1.00
2:O6:31:ARG:NH2	2:O6:35:ALA:HB2	1.54	1.00
13:T6:201:CYC:HBD1	13:T6:201:CYC:HHA	1.40	1.00
13:B7:1001:CYC:O1D	3:G7:58:ARG:NH1	1.94	1.00
8:F8:109:VAL:HG12	13:F8:1001:CYC:CAB	1.90	1.00
7:H8:148:GLU:OE2	7:X9:24:ASP:OD2	1.79	1.00
8:I8:109:VAL:HG12	13:I8:1001:CYC:CAB	1.90	1.00
8:Y8:109:VAL:HG12	13:Y8:1001:CYC:CAB	1.90	1.00
8:a8:109:VAL:HG12	13:b8:1001:CYC:CAB	1.90	1.00
9:b8:22:GLU:HB2	9:b8:25:ASN:HB3	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:s8:82:CYS:SG	13:s8:1001:CYC:CAC	2.48	1.00
7:t8:15:ALA:HB1	10:19:989:GLN:HA	1.04	1.00
5:AA:17:VAL:HG11	13:AA:302:CYC:O2A	1.59	1.00
3:PA:121:LEU:HD23	13:PA:201:CYC:HBD1	1.44	1.00
13:K1:201:CYC:HBD1	13:K1:201:CYC:HHA	1.41	1.00
3:M1:26:ASP:OD2	2:J3:51:ARG:NH2	1.94	1.00
3:T1:154:CYS:SG	13:T1:201:CYC:C2C	2.49	1.00
3:G2:34:GLU:CG	3:G2:157:LEU:CD2	2.40	1.00
3:G2:150:THR:O	13:G2:201:CYC:HMD2	1.62	1.00
3:I2:144:ASN:O	13:I2:202:CYC:HBB1	1.59	1.00
2:O2:29:ARG:NH1	13:W2:201:CYC:CMD	2.20	1.00
6:A3:13:GLN:HB2	6:A3:119:TYR:CD2	1.96	1.00
6:A3:100:ASN:ND2	6:A3:108:ILE:CD1	2.24	1.00
1:A4:195:ILE:CD1	7:V8:80:THR:HG22	1.79	1.00
13:A5:304:CYC:CGA	3:K5:121:LEU:HD23	1.91	1.00
3:M5:154:CYS:SG	13:M5:1003:CYC:C3B	2.50	1.00
3:P5:89:ILE:CG1	13:P5:201:CYC:CBB	2.39	1.00
3:P6:34:GLU:CD	3:P6:157:LEU:HD21	1.85	1.00
3:P6:43:ASN:ND2	13:W6:201:CYC:CBC	2.25	1.00
6:A7:100:ASN:HD22	6:A7:108:ILE:HD13	1.24	1.00
6:A7:100:ASN:ND2	6:A7:108:ILE:CD1	2.24	1.00
8:I8:82:CYS:SG	13:I8:1001:CYC:CAC	2.48	1.00
8:m8:84:ARG:HH11	10:09:1096:SER:HB3	1.24	1.00
8:o8:65:ASP:HB3	10:09:1128:ARG:HB2	1.42	1.00
13:AA:304:CYC:CGA	3:KA:121:LEU:HD23	1.91	1.00
3:M1:26:ASP:OD2	2:J3:51:ARG:CZ	2.09	1.00
3:T1:76:THR:CG2	3:T1:79:ARG:HE	1.74	1.00
3:C2:154:CYS:SG	13:C2:202:CYC:CAC	2.48	1.00
6:A3:71:GLN:NE2	6:A3:77:ILE:HD11	1.77	1.00
1:A4:168:ARG:HH22	1:A4:172:LEU:HD13	1.23	1.00
4:N4:63:ARG:CD	13:V4:202:CYC:O2D	2.10	1.00
5:A5:61:ILE:CD1	3:G5:85:ARG:NH1	2.24	1.00
6:A7:13:GLN:HG2	6:A7:119:TYR:HE2	0.86	1.00
2:F7:26:GLN:OE1	2:L7:31:ARG:HG2	1.61	1.00
7:V8:25:ARG:HD2	7:p8:25:ARG:HD2	1.38	1.00
9:49:41:GLN:HE21	13:F9:1001:CYC:C4B	1.75	1.00
3:IA:154:CYS:SG	13:IA:202:CYC:CAB	2.49	1.00
3:PA:68:ILE:CD1	13:PA:203:CYC:O2A	2.08	1.00
3:V1:127:SER:HB2	13:V1:202:CYC:HBB1	1.42	1.00
13:I2:202:CYC:HBD1	13:I2:202:CYC:HHA	1.40	1.00
3:T2:152:GLY:HA3	13:T2:201:CYC:CMD	1.91	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E5:39:LEU:CD2	13:E5:201:CYC:HBB2	1.88	1.00
13:K5:201:CYC:HBD1	13:K5:201:CYC:HHA	1.41	1.00
2:W5:31:ARG:HH11	2:W5:103:GLY:HA3	1.24	1.00
6:A7:88:LYS:NZ	6:A7:141:ASP:CG	2.20	1.00
13:CA:201:CYC:HBD1	13:CA:201:CYC:HHA	1.41	1.00
3:G3:34:GLU:CG	3:G3:157:LEU:CD2	2.40	1.00
1:A4:129:ILE:CB	13:C4:301:CYC:O1A	2.10	1.00
5:A5:230:GLY:N	7:q9:66:VAL:CG1	2.24	1.00
3:P5:121:LEU:HD23	13:P5:201:CYC:HBD1	1.44	1.00
13:R5:201:CYC:HBD1	13:R5:201:CYC:HHA	1.41	1.00
4:N6:10:LEU:HB3	4:N6:12:THR:CG2	1.92	1.00
7:S8:20:PRO:HG2	7:w9:101:VAL:HG13	1.38	1.00
8:d8:82:CYS:SG	13:d8:1001:CYC:CAC	2.48	1.00
8:h8:109:VAL:HG12	13:h8:1001:CYC:CAB	1.90	1.00
3:VA:89:ILE:HG12	13:VA:201:CYC:HMC3	1.42	1.00
1:A1:168:ARG:HH21	1:A1:172:LEU:HD22	1.22	1.00
13:G2:201:CYC:HBD1	13:G2:201:CYC:HHA	1.41	1.00
13:T2:201:CYC:CAB	2:Y2:34:ARG:CZ	2.38	1.00
13:V2:201:CYC:HBD1	13:V2:201:CYC:HHA	1.41	1.00
6:A3:88:LYS:NZ	6:A3:141:ASP:CG	2.20	1.00
13:A5:303:CYC:HAC1	3:G5:83:CYS:HA	1.43	1.00
3:G6:150:THR:O	13:G6:201:CYC:HMD2	1.62	1.00
13:U6:201:CYC:HBD1	13:U6:201:CYC:HHA	1.41	1.00
13:K7:201:CYC:HHA	13:K7:201:CYC:HBD1	1.40	1.00
8:F8:82:CYS:HG	13:F8:1001:CYC:HAC2	1.03	1.00
8:W8:84:ARG:NH1	10:19:1001:SER:HG	1.56	1.00
9:i8:31:LEU:O	10:09:1012:GLU:OE1	1.80	1.00
3:MA:154:CYS:SG	13:MA:1003:CYC:C3B	2.49	1.00
3:ZA:154:CYS:SG	13:ZA:202:CYC:HMB2	2.00	1.00
1:A1:195:ILE:HG23	7:c8:80:THR:HG23	1.22	0.99
3:C2:40:ASP:OD2	3:C2:149:ILE:HD11	1.59	0.99
3:P2:43:ASN:ND2	13:W2:201:CYC:CBC	2.25	0.99
2:B4:85:CYS:CA	13:B4:1001:CYC:HAC2	1.90	0.99
13:C5:201:CYC:HBD1	13:C5:201:CYC:HHA	1.41	0.99
5:A6:223:ALA:HB1	7:I9:78:THR:HG23	1.42	0.99
3:P6:34:GLU:OE1	3:P6:157:LEU:CD2	2.09	0.99
7:O8:66:VAL:HB	5:AA:234:GLN:CD	1.87	0.99
7:p8:15:ALA:HB2	10:19:1065:ASN:HA	1.42	0.99
13:AA:303:CYC:HAC1	3:GA:83:CYS:HA	1.44	0.99
1:A1:209:THR:HG21	7:c8:67:SER:HA	1.00	0.99
3:I1:154:CYS:O	3:I1:157:LEU:N	1.95	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:K2:201:CYC:HBD1	13:K2:201:CYC:HHA	1.41	0.99
6:A3:97:ALA:CB	6:A3:136:LEU:HD13	1.89	0.99
5:A5:239:PHE:HB3	7:A9:52:LYS:HE2	1.00	0.99
3:X5:39:LEU:CD2	13:X5:202:CYC:HMC3	1.90	0.99
4:N6:63:ARG:HB3	13:V6:202:CYC:O2D	1.58	0.99
5:AA:61:ILE:CD1	3:GA:85:ARG:NH1	2.24	0.99
4:NA:62:LEU:CD2	4:NA:72:PHE:HD1	1.44	0.99
13:Z1:201:CYC:HBD1	13:Z1:201:CYC:HHA	1.41	0.99
5:A2:228:ASN:HD21	7:X9:60:GLN:CG	1.74	0.99
3:V2:44:ARG:NH2	3:V2:149:ILE:HG13	1.77	0.99
13:V4:201:CYC:HBD1	13:V4:201:CYC:HHA	1.41	0.99
5:A6:191:GLN:O	7:N9:75:GLN:HG3	1.61	0.99
2:H7:31:ARG:CD	2:H7:35:ALA:HB2	1.92	0.99
8:m8:113:LEU:HD21	13:09:1201:CYC:HMB3	1.45	0.99
9:49:10:LEU:CD1	9:49:26:THR:O	2.10	0.99
7:w9:86:ASP:CB	5:AA:219:PHE:CZ	2.44	0.99
13:RA:201:CYC:HBD1	13:RA:201:CYC:HHA	1.41	0.99
6:A3:57:HIS:CE1	3:G3:85:ARG:HB3	1.97	0.99
6:A3:100:ASN:HD22	6:A3:108:ILE:HD13	1.24	0.99
3:I5:93:TYR:HE2	13:I5:201:CYC:HBB1	1.25	0.99
3:K6:83:CYS:HB2	13:K6:201:CYC:HMB1	1.41	0.99
3:T6:152:GLY:HA3	13:T6:201:CYC:CMD	1.91	0.99
13:D8:1001:CYC:OB	9:G8:21:ARG:CG	2.08	0.99
7:c8:13:ALA:HA	10:09:996:ARG:HH12	1.25	0.99
8:k8:113:LEU:HD21	13:k8:1001:CYC:HMB3	1.45	0.99
13:EA:201:CYC:HHA	13:EA:201:CYC:HBD1	1.40	0.99
13:NA:301:CYC:HBC1	3:RA:87:MET:CE	1.93	0.99
2:YA:29:ARG:CD	13:ZA:202:CYC:OC	2.09	0.99
2:O2:30:GLY:CA	2:W2:30:GLY:HA3	1.92	0.99
6:A3:129:ILE:CD1	3:C3:85:ARG:NH1	2.24	0.99
2:D5:34:ARG:HH12	2:D5:150:GLU:HB2	1.18	0.99
5:A6:246:ALA:CB	7:C8:79:ALA:HB2	1.92	0.99
8:t9:63:TYR:CB	5:AA:205:LYS:CD	2.37	0.99
13:V1:201:CYC:HBD1	13:V1:201:CYC:HHA	1.41	0.99
3:R2:121:LEU:HD11	13:R2:1001:CYC:CAA	1.90	0.99
13:C3:201:CYC:HBD1	13:C3:201:CYC:HHA	1.40	0.99
13:T4:201:CYC:HHA	13:T4:201:CYC:HBD1	1.40	0.99
3:R5:39:LEU:HD23	13:R5:201:CYC:HBB2	1.28	0.99
2:B6:30:GLY:CA	2:J6:30:GLY:HA3	1.92	0.99
13:B6:1001:CYC:O1D	3:G6:58:ARG:NH1	1.94	0.99
4:N6:154:PHE:CZ	4:N6:172:TYR:OH	2.14	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W6:119:ILE:CD1	13:W6:202:CYC:CMA	2.37	0.99
6:A7:57:HIS:CE1	3:G7:85:ARG:HB3	1.97	0.99
2:B7:30:GLY:CA	2:J7:30:GLY:HA3	1.92	0.99
8:f8:109:VAL:HG12	13:f8:1001:CYC:CAB	1.90	0.99
13:VA:202:CYC:HHA	13:VA:202:CYC:HBD1	1.41	0.99
1:A1:84:ARG:HB2	4:N1:230:VAL:HG21	1.40	0.99
5:A2:246:ALA:CB	7:J8:79:ALA:HB2	1.90	0.99
13:W2:201:CYC:HBD1	13:W2:201:CYC:HHA	1.41	0.99
3:Z2:152:GLY:N	13:Z2:201:CYC:OB	1.95	0.99
6:A3:53:ILE:O	6:A3:112:ARG:CZ	2.11	0.99
2:B3:30:GLY:CA	2:J3:30:GLY:HA3	1.92	0.99
3:I4:89:ILE:HG21	13:I4:201:CYC:HBB3	1.40	0.99
5:A5:223:ALA:HB1	7:q9:78:THR:HG23	1.19	0.99
6:A7:104:ARG:CD	6:A7:108:ILE:CG1	2.38	0.99
2:B7:73:PRO:HB2	3:G7:58:ARG:HH22	1.23	0.99
8:h8:113:LEU:HD21	13:h8:1001:CYC:HMB3	1.45	0.99
9:39:23:LEU:CD1	8:l9:88:TYR:HE2	1.75	0.99
7:w9:82:LEU:HD13	5:AA:222:LEU:HD22	1.43	0.99
13:RA:201:CYC:HAB2	2:UA:34:ARG:HE	1.27	0.99
3:G3:71:GLY:HA3	2:FA:62:GLN:HE22	1.22	0.99
3:G4:70:PRO:HG2	8:W8:18:LYS:HZ2	0.82	0.99
3:P4:40:ASP:OD2	13:P4:202:CYC:C4A	2.11	0.99
2:Y5:29:ARG:CD	13:Z5:202:CYC:OC	2.09	0.99
13:N6:301:CYC:HHA	13:N6:301:CYC:HBA2	1.39	0.99
6:A7:104:ARG:HG3	6:A7:104:ARG:HH11	1.28	0.99
3:G7:150:THR:O	13:G7:202:CYC:HMD2	1.62	0.99
2:L7:31:ARG:NH2	2:L7:35:ALA:HB2	1.77	0.99
3:TA:152:GLY:HA3	13:TA:202:CYC:HMD1	1.43	0.99
4:N2:10:LEU:HB3	4:N2:12:THR:CG2	1.92	0.99
13:U2:201:CYC:HBD1	13:U2:201:CYC:HHA	1.41	0.99
2:F3:26:GLN:OE1	2:L3:31:ARG:HG2	1.61	0.99
6:A7:13:GLN:HB2	6:A7:119:TYR:CD2	1.96	0.99
2:B7:73:PRO:HB3	3:G7:58:ARG:CZ	1.93	0.99
2:J7:119:ILE:HD11	13:J7:1001:CYC:HMA1	0.99	0.99
8:I8:84:ARG:CZ	10:19:572:ILE:HG21	1.93	0.99
13:19:1205:CYC:O1A	8:h9:84:ARG:NH1	1.96	0.99
3:GA:152:GLY:HA3	13:GA:1002:CYC:HMD1	1.43	0.99
2:F1:136:HIS:CE1	2:F1:140:ASN:HD21	1.74	0.98
13:M2:201:CYC:HBD1	13:M2:201:CYC:HHA	1.41	0.98
3:I3:83:CYS:CB	13:I3:201:CYC:CAC	2.16	0.98
2:L3:31:ARG:NH2	2:L3:35:ALA:CB	2.26	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:X4:202:CYC:HBD1	13:X4:202:CYC:HHA	1.41	0.98
13:M5:1003:CYC:HBD1	13:M5:1003:CYC:HHA	1.41	0.98
2:Q5:31:ARG:HH11	2:Q5:103:GLY:HA3	0.97	0.98
13:Z5:202:CYC:HHA	13:Z5:202:CYC:HBD1	1.41	0.98
5:A6:73:GLN:NE2	4:N6:227:GLY:HA3	1.78	0.98
2:B6:50:GLN:HG3	7:T9:57:GLN:NE2	1.77	0.98
3:P6:89:ILE:CG2	13:P6:201:CYC:HBB3	1.93	0.98
13:Z6:201:CYC:HBD1	13:Z6:201:CYC:HHA	1.41	0.98
3:I7:87:MET:HE2	13:I7:201:CYC:CBC	1.67	0.98
8:I8:84:ARG:NH1	10:19:572:ILE:HG21	1.78	0.98
9:U8:36:ASN:ND2	10:09:842:ASN:CG	2.21	0.98
5:A6:103:ASN:CG	3:C6:112:ASN:HD22	1.71	0.98
2:B6:73:PRO:HB2	3:G6:58:ARG:HH22	1.22	0.98
3:M6:157:LEU:O	3:M6:161:VAL:HG23	1.59	0.98
13:M6:201:CYC:HBD1	13:M6:201:CYC:HHA	1.41	0.98
8:D8:113:LEU:HD21	13:D8:1001:CYC:HMB3	1.45	0.98
8:M8:113:LEU:HD21	13:M8:1001:CYC:HMB3	1.45	0.98
8:k8:11:ASN:HD21	10:09:1122:PRO:HD3	1.27	0.98
8:v9:84:ARG:NH1	13:v9:1001:CYC:O1A	1.96	0.98
2:S2:5:PRO:HG3	2:Y2:23:THR:OG1	1.63	0.98
6:A3:88:LYS:HE3	6:A3:141:ASP:OD1	1.60	0.98
4:N4:63:ARG:HG2	13:V4:202:CYC:O2D	1.62	0.98
5:A5:220:ALA:HA	7:q9:79:ALA:HB2	1.43	0.98
3:I5:87:MET:CE	13:I5:201:CYC:HBC1	1.88	0.98
2:O6:30:GLY:CA	2:W6:30:GLY:HA3	1.92	0.98
3:V6:44:ARG:NH2	3:V6:149:ILE:HG13	1.77	0.98
3:G7:34:GLU:CG	3:G7:157:LEU:CD2	2.40	0.98
13:G7:202:CYC:HBD1	13:G7:202:CYC:HHA	1.41	0.98
2:L7:31:ARG:NH2	2:L7:35:ALA:CB	2.26	0.98
8:B8:113:LEU:HD21	13:B8:1001:CYC:HMB3	1.45	0.98
13:19:1204:CYC:O1A	8:a9:84:ARG:NH1	1.96	0.98
13:29:1001:CYC:O1A	8:W9:84:ARG:NH1	1.96	0.98
8:S9:84:ARG:NH1	13:S9:1001:CYC:O1A	1.96	0.98
8:e9:84:ARG:NH1	13:e9:1001:CYC:O1A	1.96	0.98
8:x9:84:ARG:NH1	13:x9:1001:CYC:O1A	1.96	0.98
13:MA:1003:CYC:HHA	13:MA:1003:CYC:HBD1	1.41	0.98
3:K2:83:CYS:HB2	13:K2:201:CYC:HMB1	1.41	0.98
5:A5:201:PHE:HD2	7:u9:76:GLU:CG	1.77	0.98
7:J8:81:CYS:SG	13:J8:1001:CYC:NC	2.37	0.98
7:l8:81:CYS:SG	13:l8:1001:CYC:NC	2.37	0.98
3:CA:68:ILE:CD1	13:DA:1001:CYC:CGA	2.41	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:129:ILE:CB	13:C1:301:CYC:O1A	2.10	0.98
4:N1:155:GLU:C	4:N1:157:GLN:OE1	2.05	0.98
2:B2:30:GLY:CA	2:J2:30:GLY:HA3	1.92	0.98
2:L2:31:ARG:NH2	2:L2:35:ALA:CB	2.26	0.98
2:L2:31:ARG:NH2	2:L2:35:ALA:HB2	1.77	0.98
3:P2:89:ILE:CG2	13:P2:201:CYC:HBB3	1.93	0.98
13:G3:202:CYC:HHA	13:G3:202:CYC:HBD1	1.41	0.98
3:I6:157:LEU:O	3:I6:161:VAL:HG23	1.64	0.98
2:O6:29:ARG:NH1	13:W6:201:CYC:CMD	2.20	0.98
2:Q6:91:HIS:CB	13:Q6:201:CYC:HAB1	1.94	0.98
6:A7:97:ALA:CB	6:A7:136:LEU:HD13	1.89	0.98
9:G8:31:LEU:CD1	10:09:578:GLU:OE2	2.10	0.98
8:a8:113:LEU:HD21	13:b8:1001:CYC:HMB3	1.45	0.98
7:j8:81:CYS:SG	13:j8:1001:CYC:NC	2.37	0.98
8:J9:84:ARG:NH1	13:J9:1001:CYC:O1A	1.96	0.98
4:N1:63:ARG:CD	13:V1:202:CYC:O2D	2.10	0.98
2:O1:85:CYS:SG	13:O1:1001:CYC:C2C	2.52	0.98
3:P1:40:ASP:OD2	13:P1:202:CYC:C4A	2.11	0.98
2:B2:73:PRO:HB3	3:G2:58:ARG:CZ	1.93	0.98
2:H2:29:ARG:NH1	13:I2:202:CYC:HMD2	1.79	0.98
2:J2:119:ILE:HD11	13:J2:1001:CYC:HMA1	0.99	0.98
3:I4:154:CYS:O	3:I4:157:LEU:N	1.95	0.98
3:P4:68:ILE:HD13	13:Q4:201:CYC:CGA	1.94	0.98
3:C6:87:MET:CE	13:C6:201:CYC:HBC1	1.91	0.98
2:L6:31:ARG:NH2	2:L6:35:ALA:CB	2.26	0.98
2:L6:31:ARG:NH2	2:L6:35:ALA:HB2	1.77	0.98
2:Y6:74:GLN:HA	13:Y6:201:CYC:HBD2	1.45	0.98
8:K8:113:LEU:HD21	13:K8:1001:CYC:HMB3	1.45	0.98
13:d8:1001:CYC:HMA2	10:09:1001:SER:CB	1.94	0.98
7:n8:81:CYS:SG	13:n8:1001:CYC:NC	2.37	0.98
13:39:1001:CYC:O1A	8:n9:84:ARG:NH1	1.96	0.98
8:H9:84:ARG:NH1	13:H9:1001:CYC:O1A	1.96	0.98
7:w9:82:LEU:HD13	5:AA:222:LEU:HD23	1.40	0.98
3:RA:68:ILE:HD13	13:SA:1001:CYC:CGA	1.93	0.98
1:A1:207:ILE:CG2	7:c8:66:VAL:HG21	1.91	0.98
3:M1:26:ASP:OD2	2:J3:51:ARG:NH1	1.95	0.98
5:A2:73:GLN:NE2	4:N2:227:GLY:CA	2.27	0.98
3:G2:154:CYS:HB3	13:G2:201:CYC:HAC2	1.45	0.98
6:A7:88:LYS:HE3	6:A7:141:ASP:OD1	1.60	0.98
7:C8:81:CYS:SG	13:C8:1001:CYC:NC	2.37	0.98
7:E8:81:CYS:SG	13:E8:1001:CYC:NC	2.37	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W8:113:LEU:HD21	13:W8:1001:CYC:HMB3	1.45	0.98
7:n8:16:ARG:HA	10:09:989:GLN:NE2	1.78	0.98
8:o8:15:VAL:HG13	10:09:941:ARG:C	1.88	0.98
8:u8:113:LEU:HD21	13:19:1201:CYC:HMB3	1.45	0.98
3:EA:39:LEU:CD2	13:EA:201:CYC:HBB2	1.88	0.98
1:A1:212:PHE:CG	7:l8:66:VAL:O	2.16	0.98
2:L1:100:LEU:HD21	2:L1:151:ALA:HA	1.46	0.98
4:N1:48:TYR:CB	3:P1:85:ARG:NH1	2.26	0.98
3:C2:87:MET:CE	13:C2:201:CYC:HBC1	1.91	0.98
3:G3:150:THR:O	13:G3:202:CYC:HMD2	1.62	0.98
3:G3:154:CYS:HB3	13:G3:202:CYC:HAC2	1.45	0.98
2:L4:34:ARG:NH1	2:L4:150:GLU:HB2	1.78	0.98
4:N4:155:GLU:C	4:N4:157:GLN:OE1	2.05	0.98
3:V5:89:ILE:HG12	13:V5:201:CYC:HMC3	1.42	0.98
2:S6:5:PRO:HG3	2:Y6:23:THR:OG1	1.63	0.98
7:Z8:81:CYS:SG	13:Z8:1001:CYC:NC	2.37	0.98
9:i8:30:LYS:HD2	10:09:1012:GLU:OE2	1.64	0.98
8:O9:84:ARG:NH1	13:O9:1001:CYC:O1A	1.96	0.98
7:w9:78:THR:HG23	5:AA:223:ALA:CB	1.93	0.98
2:F3:34:ARG:HH22	2:F3:146:GLN:NE2	1.62	0.98
5:A5:230:GLY:H	7:q9:66:VAL:HG12	1.18	0.98
2:H7:29:ARG:NH1	13:I7:202:CYC:HMD2	1.79	0.98
8:q8:113:LEU:HD21	13:q8:1001:CYC:HMB3	1.45	0.98
8:D9:84:ARG:NH1	13:D9:1001:CYC:O1A	1.96	0.98
3:C1:40:ASP:OD2	13:C1:302:CYC:ND	1.95	0.98
3:T1:127:SER:HB3	13:T1:202:CYC:HBB1	0.98	0.98
3:Z2:44:ARG:NH1	3:Z2:145:ASP:HB2	1.79	0.98
2:L3:31:ARG:NH2	2:L3:35:ALA:HB2	1.77	0.98
3:G5:152:GLY:HA3	13:G5:201:CYC:HMD1	1.43	0.98
7:H8:81:CYS:SG	13:H8:1001:CYC:NC	2.37	0.98
7:J8:106:GLU:OE1	10:19:538:VAL:O	1.80	0.98
7:O8:81:CYS:SG	13:O8:1001:CYC:NC	2.37	0.98
7:t8:81:CYS:SG	13:t8:1001:CYC:NC	2.37	0.98
7:o9:76:GLU:CG	5:AA:201:PHE:HD2	1.76	0.98
2:F1:136:HIS:CE1	2:F1:140:ASN:HD22	1.82	0.97
6:A3:14:ASN:O	13:E3:201:CYC:CMA	2.11	0.97
13:I5:202:CYC:HBD1	13:I5:202:CYC:HHA	1.41	0.97
3:K6:83:CYS:HB2	13:K6:201:CYC:C2B	1.94	0.97
7:O8:66:VAL:CG1	5:AA:234:GLN:NE2	2.26	0.97
8:o8:113:LEU:HD11	13:o8:1001:CYC:C2B	1.92	0.97
8:s8:113:LEU:HD21	13:s8:1001:CYC:HMB3	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:19:986:PHE:CE1	13:19:1201:CYC:HBA1	1.99	0.97
7:w9:78:THR:CG2	5:AA:223:ALA:HB1	1.94	0.97
5:A2:215:ASP:OD1	8:c9:68:ARG:NE	1.96	0.97
2:F2:34:ARG:HH22	2:F2:146:GLN:NE2	1.62	0.97
2:J3:119:ILE:HD11	13:J3:1001:CYC:HMA1	0.99	0.97
3:Z6:157:LEU:O	3:Z6:161:VAL:HG23	1.63	0.97
7:r8:81:CYS:SG	13:r8:1001:CYC:NC	2.37	0.97
8:t9:63:TYR:O	5:AA:205:LYS:HE3	1.62	0.97
8:z9:84:ARG:NH1	13:z9:1001:CYC:O1A	1.96	0.97
2:SA:29:ARG:NH2	2:SA:33:GLU:OE2	1.97	0.97
2:L1:34:ARG:NH1	2:L1:150:GLU:HB2	1.78	0.97
4:N2:154:PHE:CZ	4:N2:172:TYR:OH	2.14	0.97
2:Q2:88:ASP:OD1	13:Q2:201:CYC:CHB	2.12	0.97
6:A3:104:ARG:CD	6:A3:108:ILE:CG1	2.38	0.97
2:H3:29:ARG:NH1	13:I3:202:CYC:HMD2	1.79	0.97
4:N4:48:TYR:CB	3:P4:85:ARG:NH1	2.26	0.97
2:S5:29:ARG:NH2	2:S5:33:GLU:OE2	1.96	0.97
2:W6:31:ARG:HH21	2:W6:35:ALA:CB	1.77	0.97
7:A8:81:CYS:SG	13:A8:1001:CYC:NC	2.37	0.97
7:S8:81:CYS:SG	13:S8:1001:CYC:NC	2.37	0.97
8:k8:82:CYS:HG	13:k8:1001:CYC:HAC2	0.86	0.97
7:n8:15:ALA:CB	10:09:989:GLN:HG3	1.94	0.97
8:o8:77:ARG:HH12	13:o8:1001:CYC:CGD	1.78	0.97
8:F9:84:ARG:NH1	13:F9:1001:CYC:O1A	1.96	0.97
8:p9:84:ARG:NH1	13:p9:1001:CYC:O1A	1.96	0.97
6:A3:158:VAL:HG12	6:A3:159:PRO:HD2	1.46	0.97
2:J4:85:CYS:SG	13:J4:1001:CYC:HAC2	2.03	0.97
2:L4:35:ALA:HA	2:L4:38:SER:OG	1.64	0.97
13:N5:301:CYC:HBC1	3:R5:87:MET:HE3	0.99	0.97
6:A7:14:ASN:O	13:E7:201:CYC:CMA	2.12	0.97
2:D7:18:ARG:NH2	2:D7:24:GLU:OE1	1.98	0.97
8:I8:113:LEU:HD21	13:I8:1001:CYC:HMB3	1.45	0.97
7:Q8:81:CYS:SG	13:Q8:1001:CYC:NC	2.37	0.97
7:g8:81:CYS:SG	13:g8:1001:CYC:NC	2.37	0.97
7:p8:15:ALA:HB2	10:19:1065:ASN:CA	1.95	0.97
8:B9:84:ARG:NH1	13:B9:1001:CYC:O1A	1.96	0.97
8:j9:84:ARG:NH1	13:j9:1001:CYC:O1A	1.96	0.97
2:B2:86:ALA:CB	7:k9:60:GLN:HG2	1.89	0.97
3:C4:16:ARG:O	8:W8:18:LYS:HE2	1.64	0.97
2:L4:41:ALA:CB	2:L4:147:ALA:HB1	1.94	0.97
2:W4:119:ILE:HD13	13:W4:1001:CYC:HMA2	1.44	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:234:GLN:H	7:A9:66:VAL:HG12	1.28	0.97
5:A6:246:ALA:HB3	7:C8:79:ALA:HB1	1.00	0.97
7:c8:81:CYS:SG	13:c8:1001:CYC:NC	2.37	0.97
7:e8:81:CYS:SG	13:e8:1001:CYC:NC	2.37	0.97
13:09:1203:CYC:O1A	8:M9:84:ARG:NH1	1.96	0.97
3:VA:83:CYS:SG	13:VA:201:CYC:NB	2.38	0.97
1:A1:195:ILE:CG1	7:c8:80:THR:CG2	2.42	0.97
3:C4:40:ASP:OD2	13:C4:302:CYC:ND	1.95	0.97
2:O4:85:CYS:SG	13:O4:1001:CYC:C2C	2.52	0.97
5:A6:73:GLN:NE2	4:N6:227:GLY:CA	2.27	0.97
5:A6:222:LEU:HD23	7:I9:82:LEU:CD1	1.94	0.97
13:A7:301:CYC:HAB2	3:C7:110:CYS:HA	1.42	0.97
7:J8:64:ASP:OD1	7:X9:69:GLY:C	2.07	0.97
8:f8:113:LEU:HD21	13:f8:1001:CYC:HMB3	1.45	0.97
2:B3:73:PRO:HB3	3:G3:58:ARG:CZ	1.93	0.97
2:F6:26:GLN:OE1	2:L6:31:ARG:HG2	1.61	0.97
2:F6:34:ARG:HH22	2:F6:146:GLN:NE2	1.62	0.97
4:N6:230:VAL:HG23	4:N6:265:ARG:HH22	1.28	0.97
3:Z6:44:ARG:NH1	3:Z6:145:ASP:HB2	1.79	0.97
8:r9:84:ARG:NH1	13:r9:1001:CYC:O1A	1.96	0.97
5:A2:73:GLN:HE22	4:N2:227:GLY:CA	1.77	0.97
2:O2:119:ILE:CD1	13:O2:1001:CYC:HMA1	1.95	0.97
3:Z2:157:LEU:O	3:Z2:161:VAL:HG23	1.63	0.97
1:A4:201:LEU:HG	7:V8:82:LEU:CD1	1.94	0.97
2:D4:91:HIS:HB3	13:D4:1001:CYC:HAB1	1.41	0.97
3:R5:68:ILE:HD13	13:S5:1001:CYC:CGA	1.93	0.97
13:I6:202:CYC:HBD1	13:I6:202:CYC:HHA	1.41	0.97
7:V8:81:CYS:SG	13:V8:1001:CYC:NC	2.37	0.97
7:X8:81:CYS:SG	13:X8:1001:CYC:NC	2.37	0.97
8:d8:113:LEU:HD21	13:d8:1001:CYC:HMB3	1.45	0.97
7:p8:81:CYS:SG	13:p8:1001:CYC:NC	2.37	0.97
8:c9:84:ARG:NH1	13:c9:1001:CYC:O1A	1.96	0.97
3:I2:157:LEU:O	3:I2:161:VAL:HG23	1.64	0.97
2:Q2:91:HIS:CB	13:Q2:201:CYC:HAB1	1.94	0.97
2:W2:119:ILE:HD11	13:W2:202:CYC:HMA1	0.97	0.97
6:A3:101:SER:CB	3:C3:112:ASN:HD22	1.78	0.97
3:K3:83:CYS:HB2	13:K3:201:CYC:C2B	1.94	0.97
13:M3:201:CYC:HBD1	13:M3:201:CYC:HHA	1.41	0.97
13:A5:303:CYC:HAC2	3:G5:83:CYS:HA	1.39	0.97
2:B6:50:GLN:HG3	7:T9:57:GLN:HE21	1.28	0.97
2:H6:29:ARG:NH1	13:I6:202:CYC:HMD2	1.79	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O6:29:ARG:HD3	13:W6:201:CYC:OC	1.64	0.97
2:Q6:88:ASP:OD1	13:Q6:201:CYC:CHB	2.12	0.97
8:T8:68:ARG:NH2	5:AA:249:ASN:HB3	1.79	0.97
13:d8:1001:CYC:CMA	10:09:1001:SER:HB3	1.94	0.97
7:j8:110:ILE:HD12	10:09:1117:TRP:CZ2	1.95	0.97
2:J1:85:CYS:SG	13:J1:1001:CYC:HAC2	2.03	0.97
2:B2:86:ALA:HB1	7:k9:60:GLN:CD	1.90	0.97
6:A3:13:GLN:CG	6:A3:119:TYR:CE2	2.27	0.97
13:A3:301:CYC:HBC1	3:C3:87:MET:HE1	0.97	0.97
3:P6:37:LYS:HB3	3:P6:154:CYS:SG	2.05	0.97
6:A7:97:ALA:HB2	6:A7:136:LEU:HD13	1.46	0.97
9:U8:30:LYS:CD	10:09:782:GLU:OE2	2.12	0.97
8:Y8:113:LEU:HD21	13:Y8:1001:CYC:HMB3	1.45	0.97
2:FA:34:ARG:HH21	13:MA:1003:CYC:CAC	1.77	0.97
1:A1:209:THR:HG21	7:c8:67:SER:N	1.80	0.96
2:W1:119:ILE:HD13	13:W1:1001:CYC:HMA2	1.44	0.96
5:A2:73:GLN:NE2	4:N2:227:GLY:HA3	1.78	0.96
2:B4:83:SER:OG	8:W8:27:LYS:HE3	1.65	0.96
5:A5:228:ASN:HD22	7:q9:59:PHE:HB3	0.82	0.96
2:F5:32:TYR:HE1	3:G5:35:GLY:HA3	1.20	0.96
2:D6:31:ARG:NH2	2:D6:35:ALA:CB	2.28	0.96
3:G6:154:CYS:HB3	13:G6:201:CYC:HAC2	1.46	0.96
2:W6:119:ILE:HD11	13:W6:202:CYC:HMA1	0.97	0.96
7:C8:106:GLU:OE2	10:09:540:PHE:HA	1.64	0.96
8:m8:70:GLY:O	10:09:942:GLY:HA2	1.63	0.96
4:NA:62:LEU:CD1	4:NA:72:PHE:CG	2.48	0.96
4:N1:63:ARG:HG2	13:V1:202:CYC:O2D	1.62	0.96
1:A4:55:SER:O	1:A4:59:ILE:HG23	1.64	0.96
1:A4:57:HIS:HB2	13:G4:202:CYC:O2A	1.64	0.96
3:Z4:83:CYS:HG	13:Z4:202:CYC:HAC2	1.24	0.96
2:J5:35:ALA:O	2:J5:39:LEU:HG	1.65	0.96
3:V5:83:CYS:SG	13:V5:201:CYC:NB	2.38	0.96
2:Y6:31:ARG:NH2	2:Y6:35:ALA:HA	1.79	0.96
3:Z6:152:GLY:N	13:Z6:201:CYC:OB	1.95	0.96
6:A7:101:SER:CB	3:C7:112:ASN:HD22	1.78	0.96
8:T8:113:LEU:HD21	13:T8:1001:CYC:HMB3	1.45	0.96
13:19:1203:CYC:O1A	8:Y9:84:ARG:NH1	1.96	0.96
8:t9:84:ARG:NH1	13:t9:1001:CYC:O1A	1.96	0.96
13:NA:301:CYC:HBC1	3:RA:87:MET:HE3	0.99	0.96
2:L1:41:ALA:CB	2:L1:147:ALA:HB1	1.94	0.96
3:P1:68:ILE:HD13	13:Q1:201:CYC:CGA	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D2:23:THR:HG23	2:D2:24:GLU:OE2	1.65	0.96
3:G2:34:GLU:CD	3:G2:157:LEU:CD2	2.38	0.96
3:E5:154:CYS:SG	13:E5:201:CYC:CAC	2.53	0.96
4:N5:62:LEU:CD1	4:N5:72:PHE:CG	2.48	0.96
3:V5:89:ILE:CG1	13:V5:201:CYC:CMC	2.40	0.96
3:X5:54:THR:HB	3:X5:58:ARG:HH21	1.23	0.96
13:T6:201:CYC:CAB	2:Y6:34:ARG:NH1	2.28	0.96
6:A7:158:VAL:HG12	6:A7:159:PRO:HD2	1.46	0.96
3:G7:34:GLU:CD	3:G7:157:LEU:CD2	2.38	0.96
7:L8:81:CYS:SG	13:L8:1001:CYC:NC	2.37	0.96
10:19:986:PHE:HZ	13:19:1201:CYC:CGA	1.78	0.96
1:A1:55:SER:O	1:A1:59:ILE:HG23	1.64	0.96
1:A1:57:HIS:HB2	13:G1:202:CYC:O2A	1.64	0.96
13:T2:201:CYC:CAB	2:Y2:34:ARG:NH1	2.27	0.96
1:A4:195:ILE:CB	7:V8:80:THR:HG22	1.95	0.96
2:D6:23:THR:HG23	2:D6:24:GLU:OE2	1.65	0.96
2:S6:32:TYR:CE1	3:T6:35:GLY:HA3	2.00	0.96
8:F8:113:LEU:HD21	13:F8:1001:CYC:HMB3	1.45	0.96
2:D1:119:ILE:HD11	13:D1:1001:CYC:HAA1	1.48	0.96
4:N2:230:VAL:HG23	4:N2:265:ARG:HH22	1.28	0.96
6:A3:100:ASN:ND2	6:A3:108:ILE:HD13	1.80	0.96
2:F5:32:TYR:HE1	3:G5:35:GLY:CA	1.78	0.96
2:F5:62:GLN:CD	3:G7:71:GLY:C	2.33	0.96
13:R5:201:CYC:HAB2	2:U5:34:ARG:HE	1.27	0.96
2:F6:119:ILE:CD1	13:F6:1001:CYC:CMA	2.44	0.96
3:G6:34:GLU:CD	3:G6:157:LEU:CD2	2.38	0.96
2:F7:34:ARG:HH22	2:F7:146:GLN:NE2	1.62	0.96
7:O8:82:LEU:CD1	5:AA:241:ILE:HG21	1.95	0.96
5:A2:103:ASN:CG	3:C2:112:ASN:HD22	1.71	0.96
3:M2:44:ARG:HH21	3:M2:149:ILE:HG12	1.30	0.96
2:O2:29:ARG:HD3	13:W2:201:CYC:OC	1.64	0.96
2:W2:31:ARG:HH21	2:W2:35:ALA:HB2	0.83	0.96
3:C3:93:TYR:CB	3:C3:110:CYS:SG	2.54	0.96
2:H3:31:ARG:HH11	2:H3:103:GLY:HA3	1.31	0.96
1:A4:95:LEU:HG	1:A4:176:ARG:NH2	1.80	0.96
4:N7:230:VAL:HG23	4:N7:265:ARG:HH22	1.28	0.96
8:k8:108:ARG:HH22	10:09:1029:THR:CB	1.78	0.96
7:n8:110:ILE:CD1	10:09:954:ARG:CZ	2.43	0.96
8:L9:84:ARG:NH1	13:L9:1001:CYC:O1A	1.96	0.96
2:F2:119:ILE:CD1	13:F2:1001:CYC:CMA	2.44	0.96
3:P2:37:LYS:HB3	3:P2:154:CYS:SG	2.05	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A3:88:LYS:NZ	6:A3:141:ASP:OD2	1.99	0.96
6:A3:101:SER:HB3	3:C3:112:ASN:ND2	1.80	0.96
2:D3:18:ARG:NH2	2:D3:24:GLU:OE1	1.98	0.96
2:F5:34:ARG:HH21	13:M5:1003:CYC:CAC	1.77	0.96
9:49:41:GLN:NE2	13:F9:1001:CYC:OB	1.98	0.96
3:EA:154:CYS:SG	13:EA:201:CYC:CAC	2.53	0.96
13:N2:302:CYC:C1B	3:T2:83:CYS:HB3	1.96	0.96
2:S2:32:TYR:CE1	3:T2:35:GLY:HA3	2.00	0.96
2:U2:32:TYR:CE2	3:V2:35:GLY:CA	2.38	0.96
3:M3:44:ARG:HH21	3:M3:149:ILE:HG12	1.30	0.96
2:H4:100:LEU:HD21	2:H4:151:ALA:HA	1.48	0.96
3:T4:127:SER:HB3	13:T4:202:CYC:HBB1	0.98	0.96
3:G5:154:CYS:HG	13:G5:201:CYC:H2C	1.26	0.96
3:C6:37:LYS:HB3	3:C6:154:CYS:SG	2.06	0.96
3:C6:152:GLY:CA	13:C6:202:CYC:CMD	2.44	0.96
2:D6:18:ARG:NH2	2:D6:24:GLU:OE1	1.98	0.96
3:M6:44:ARG:HH21	3:M6:149:ILE:HG12	1.30	0.96
13:A7:301:CYC:HBC1	3:C7:87:MET:HE1	0.97	0.96
3:C7:152:GLY:CA	13:C7:201:CYC:CMD	2.44	0.96
2:H7:73:PRO:CB	3:M7:58:ARG:NH2	2.29	0.96
8:R8:113:LEU:HD21	13:R8:1001:CYC:HMB3	1.45	0.96
4:N1:63:ARG:CG	13:V1:202:CYC:O2D	2.13	0.96
6:A3:104:ARG:HH11	6:A3:104:ARG:HG3	1.28	0.96
3:P4:89:ILE:HG21	13:P4:201:CYC:HBB3	1.48	0.96
2:F5:62:GLN:O	3:G7:66:GLN:HB2	1.65	0.96
2:W6:31:ARG:HH21	2:W6:35:ALA:HB2	0.83	0.96
8:u8:119:SER:HB2	10:19:1114:LYS:HE2	1.45	0.96
2:JA:35:ALA:O	2:JA:39:LEU:HG	1.65	0.96
2:F1:25:LEU:HD22	13:G1:201:CYC:HBB3	1.47	0.96
3:C2:93:TYR:CB	3:C2:110:CYS:SG	2.54	0.96
2:H2:73:PRO:CB	3:M2:58:ARG:NH2	2.29	0.96
2:Y2:74:GLN:HA	13:Y2:201:CYC:HBD2	1.45	0.96
2:F4:25:LEU:HD22	13:G4:201:CYC:HBB3	1.47	0.96
4:N4:63:ARG:CG	13:V4:202:CYC:O2D	2.13	0.96
2:D6:31:ARG:HH11	2:D6:103:GLY:N	1.63	0.96
2:J6:119:ILE:HD11	13:J6:1001:CYC:HMA1	0.99	0.96
13:A7:301:CYC:HAA2	3:C7:121:LEU:HD11	1.48	0.96
13:B7:1001:CYC:CGD	3:G7:58:ARG:HH12	1.79	0.96
2:D7:31:ARG:NH2	2:D7:35:ALA:CB	2.28	0.96
13:K8:1001:CYC:OB	9:N8:21:ARG:HG2	0.79	0.96
4:NA:62:LEU:CD1	4:NA:72:PHE:CB	2.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VA:60:LEU:HD22	13:VA:201:CYC:HBB1	0.96	0.96
2:O1:29:ARG:HD3	13:P1:202:CYC:OC	1.66	0.95
2:D2:31:ARG:HH11	2:D2:103:GLY:N	1.63	0.95
13:T2:201:CYC:HAB1	2:Y2:34:ARG:NH1	1.81	0.95
2:Y2:31:ARG:HH21	2:Y2:35:ALA:HB2	0.81	0.95
3:C3:58:ARG:CZ	2:D3:73:PRO:CB	2.44	0.95
2:D3:31:ARG:NH2	2:D3:35:ALA:CB	2.28	0.95
5:A6:73:GLN:HE22	4:N6:227:GLY:CA	1.77	0.95
13:B6:1001:CYC:CGD	3:G6:58:ARG:HH12	1.79	0.95
3:C6:93:TYR:CB	3:C6:110:CYS:SG	2.54	0.95
13:N6:302:CYC:C1B	3:T6:83:CYS:HB3	1.96	0.95
6:A7:101:SER:HB3	3:C7:112:ASN:ND2	1.80	0.95
3:G7:34:GLU:HG3	3:G7:157:LEU:CD2	1.96	0.95
3:G7:154:CYS:HB3	13:G7:202:CYC:HAC2	1.46	0.95
7:O8:68:PRO:HD2	5:AA:231:ASN:ND2	1.81	0.95
2:O1:119:ILE:CD1	13:O1:1001:CYC:HMA2	1.96	0.95
13:B2:1001:CYC:CGD	3:G2:58:ARG:HH12	1.79	0.95
3:C2:37:LYS:HB3	3:C2:154:CYS:SG	2.06	0.95
3:K2:83:CYS:HB2	13:K2:201:CYC:C2B	1.94	0.95
2:D4:119:ILE:HD11	13:D4:1001:CYC:HAA1	1.48	0.95
2:F5:62:GLN:HE22	3:G7:71:GLY:CA	1.74	0.95
2:S5:35:ALA:O	2:S5:39:LEU:HG	1.66	0.95
3:Z6:87:MET:HE2	13:Z6:202:CYC:HBC1	0.96	0.95
6:A7:84:ARG:NH2	6:A7:144:LEU:HB3	1.81	0.95
2:F7:119:ILE:CD1	13:F7:1001:CYC:CMA	2.44	0.95
3:I7:157:LEU:O	3:I7:161:VAL:HG23	1.63	0.95
4:N7:239:LEU:HD23	4:N7:283:VAL:HG22	1.48	0.95
7:O8:78:THR:HB	5:AA:241:ILE:CD1	1.96	0.95
2:DA:34:ARG:HH12	2:DA:150:GLU:HB2	1.18	0.95
3:RA:154:CYS:HG	13:RA:201:CYC:HAC2	1.22	0.95
3:K1:82:ALA:CB	13:K1:201:CYC:O2A	2.14	0.95
4:N3:230:VAL:HG23	4:N3:265:ARG:HH22	1.28	0.95
4:N5:62:LEU:CD1	4:N5:72:PHE:CB	2.44	0.95
2:Y6:31:ARG:HH21	2:Y6:35:ALA:HB2	0.81	0.95
3:C7:93:TYR:CB	3:C7:110:CYS:SG	2.54	0.95
8:P8:113:LEU:HD21	13:P8:1001:CYC:HMB3	1.45	0.95
8:m8:116:THR:CA	10:09:1103:LEU:HD21	1.97	0.95
3:X1:150:THR:OG1	13:X1:202:CYC:HAA2	1.67	0.95
2:D3:23:THR:HG23	2:D3:24:GLU:OE2	1.65	0.95
3:I3:157:LEU:O	3:I3:161:VAL:HG23	1.63	0.95
3:T5:152:GLY:HA3	13:T5:202:CYC:HMD1	1.43	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:88:LYS:NZ	6:A7:141:ASP:OD2	1.99	0.95
2:D7:103:GLY:O	2:H7:26:GLN:NE2	2.00	0.95
7:O8:68:PRO:CD	5:AA:231:ASN:ND2	2.28	0.95
2:FA:32:TYR:HE1	3:GA:35:GLY:CA	1.78	0.95
3:VA:89:ILE:CG1	13:VA:201:CYC:CMC	2.40	0.95
2:L1:35:ALA:HA	2:L1:38:SER:OG	1.64	0.95
1:A4:208:LYS:O	7:V8:63:PRO:HB3	1.64	0.95
2:F4:136:HIS:CE1	2:F4:140:ASN:HD21	1.74	0.95
5:A5:60:GLU:CG	5:A5:65:ASN:HD22	1.80	0.95
8:T8:68:ARG:HH22	5:AA:249:ASN:HB3	1.26	0.95
4:NA:62:LEU:HD23	4:NA:72:PHE:CD1	2.01	0.95
1:A1:129:ILE:HB	13:C1:301:CYC:O1A	1.67	0.95
3:V1:128:VAL:HG22	13:V1:202:CYC:HMB2	1.48	0.95
3:G2:34:GLU:HG3	3:G2:157:LEU:CD2	1.97	0.95
2:O4:29:ARG:HD3	13:P4:202:CYC:OC	1.66	0.95
3:V5:60:LEU:HD22	13:V5:201:CYC:HBB1	0.96	0.95
8:m8:77:ARG:NH2	13:09:1201:CYC:O1D	2.00	0.95
7:n8:110:ILE:HD12	10:09:954:ARG:CZ	1.97	0.95
3:T1:76:THR:CG2	3:T1:79:ARG:NE	2.29	0.95
4:N2:64:ASP:OD1	13:V2:202:CYC:HAD1	1.67	0.95
13:B3:1001:CYC:CGD	3:G3:58:ARG:HH12	1.79	0.95
2:F3:119:ILE:CD1	13:F3:1001:CYC:CMA	2.43	0.95
3:G3:34:GLU:CD	3:G3:157:LEU:CD2	2.38	0.95
1:A4:129:ILE:HB	13:C4:301:CYC:O1A	1.67	0.95
3:T4:82:ALA:HB3	13:T4:202:CYC:HAA1	1.49	0.95
3:C6:58:ARG:CZ	2:D6:73:PRO:CB	2.44	0.95
3:C7:37:LYS:HB3	3:C7:154:CYS:SG	2.06	0.95
2:J7:22:ASN:O	2:J7:26:GLN:HG3	1.67	0.95
8:K8:77:ARG:NH2	13:K8:1001:CYC:O1D	2.00	0.95
7:O8:66:VAL:HB	5:AA:234:GLN:HE21	1.20	0.95
3:C2:152:GLY:CA	13:C2:202:CYC:CMD	2.44	0.95
2:D2:18:ARG:NH2	2:D2:24:GLU:OE1	1.98	0.95
5:A6:223:ALA:HB1	7:I9:78:THR:CG2	1.96	0.95
3:I6:87:MET:HE2	13:I6:201:CYC:CBC	1.67	0.95
3:V6:144:ASN:HA	13:V6:201:CYC:HBB1	1.48	0.95
9:49:41:GLN:NE2	13:F9:1001:CYC:NB	2.13	0.95
4:NA:63:ARG:CB	13:VA:201:CYC:O1D	2.14	0.95
2:L1:51:ARG:HH22	3:C3:148:GLY:HA2	1.20	0.95
4:N2:239:LEU:CD2	4:N2:283:VAL:HG22	1.97	0.95
3:C3:37:LYS:HB3	3:C3:154:CYS:SG	2.06	0.95
2:D3:103:GLY:O	2:H3:26:GLN:NE2	2.00	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H3:73:PRO:CB	3:M3:58:ARG:NH2	2.29	0.95
5:A5:198:LEU:HB3	7:u9:79:ALA:HB1	1.47	0.95
2:D7:23:THR:HG23	2:D7:24:GLU:OE2	1.65	0.95
8:F8:77:ARG:NH2	13:F8:1001:CYC:O1D	2.00	0.95
8:I8:77:ARG:NH2	13:I8:1001:CYC:O1D	2.00	0.95
7:J8:9:VAL:HG11	10:19:540:PHE:CE2	2.01	0.95
9:49:18:ARG:O	8:D9:84:ARG:HD2	1.67	0.95
2:SA:35:ALA:O	2:SA:39:LEU:HG	1.66	0.95
3:I2:87:MET:HE2	13:I2:201:CYC:CBC	1.67	0.95
6:A3:97:ALA:HB2	6:A3:136:LEU:HD13	1.46	0.95
2:B3:73:PRO:HB2	3:G3:58:ARG:HH21	1.13	0.95
2:L4:100:LEU:HD21	2:L4:151:ALA:HA	1.46	0.95
2:B6:73:PRO:HB3	3:G6:58:ARG:CZ	1.93	0.95
3:C6:83:CYS:HB2	13:C6:201:CYC:CAC	1.97	0.95
2:D6:103:GLY:O	2:H6:26:GLN:NE2	2.00	0.95
4:N6:239:LEU:CD2	4:N6:283:VAL:HG22	1.97	0.95
2:O6:34:ARG:NH1	13:X6:202:CYC:HBC2	1.82	0.95
3:R6:121:LEU:CD1	13:R6:1001:CYC:HAA2	1.97	0.95
8:T8:77:ARG:NH2	13:T8:1001:CYC:O1D	2.00	0.95
8:d8:77:ARG:NH2	13:d8:1001:CYC:O1D	2.00	0.95
8:h8:77:ARG:NH2	13:h8:1001:CYC:O1D	2.00	0.95
7:t8:52:LYS:HE3	10:19:930:PHE:CE2	2.00	0.95
2:H1:100:LEU:HD21	2:H1:151:ALA:HA	1.48	0.94
3:K1:150:THR:OG1	13:K1:202:CYC:HAA2	1.67	0.94
2:D2:103:GLY:O	2:H2:26:GLN:NE2	2.00	0.94
6:A3:84:ARG:NH2	6:A3:144:LEU:HB3	1.81	0.94
4:N3:239:LEU:CD2	4:N3:283:VAL:HG22	1.97	0.94
3:E5:154:CYS:SG	13:E5:201:CYC:HAC2	2.07	0.94
3:P5:68:ILE:CD1	13:P5:203:CYC:CGA	2.45	0.94
10:09:395:TYR:CE1	9:29:21:ARG:NH2	2.35	0.94
2:SA:32:TYR:CZ	3:TA:35:GLY:HA3	2.02	0.94
1:A1:95:LEU:HG	1:A1:176:ARG:NH2	1.80	0.94
3:P1:89:ILE:HG21	13:P1:201:CYC:HBB3	1.47	0.94
2:B2:123:PHE:CE2	13:B2:1001:CYC:CAA	2.51	0.94
2:J2:22:ASN:O	2:J2:26:GLN:HG3	1.67	0.94
4:N2:118:LEU:HD23	3:R2:85:ARG:NH2	1.82	0.94
13:T6:201:CYC:HAB1	2:Y6:34:ARG:NH1	1.82	0.94
8:R8:77:ARG:NH2	13:R8:1001:CYC:O1D	2.00	0.94
7:P9:81:CYS:SG	13:P9:1001:CYC:HBC2	2.08	0.94
7:w9:66:VAL:CG1	5:AA:228:ASN:O	2.14	0.94
2:FA:32:TYR:HE1	3:GA:35:GLY:HA3	1.20	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:67:ASN:ND2	3:K1:92:ARG:NH1	2.05	0.94
3:T1:82:ALA:HB3	13:T1:202:CYC:HAA1	1.49	0.94
3:V1:77:ASN:HD21	2:W1:116:LEU:HA	1.32	0.94
3:C2:58:ARG:CZ	2:D2:73:PRO:CB	2.44	0.94
3:V2:144:ASN:HA	13:V2:201:CYC:HBB1	1.48	0.94
6:A3:71:GLN:NE2	6:A3:77:ILE:CD1	2.31	0.94
2:J3:22:ASN:O	2:J3:26:GLN:HG3	1.67	0.94
3:K4:82:ALA:CB	13:K4:201:CYC:O2A	2.14	0.94
3:T4:82:ALA:HB1	13:T4:202:CYC:C2A	1.96	0.94
3:X4:150:THR:OG1	13:X4:202:CYC:HAA2	1.67	0.94
4:N5:63:ARG:CB	13:V5:201:CYC:O1D	2.14	0.94
3:E6:87:MET:HE1	13:E6:201:CYC:HBC1	1.46	0.94
6:A7:15:GLN:CD	6:A7:162:ARG:O	2.10	0.94
3:I7:58:ARG:CZ	2:J7:73:PRO:HB2	1.98	0.94
7:O8:82:LEU:HD12	5:AA:241:ILE:HG21	1.49	0.94
8:Y8:77:ARG:NH2	13:Y8:1001:CYC:O1D	2.00	0.94
7:i9:81:CYS:SG	13:i9:1001:CYC:HBC2	2.08	0.94
7:q9:81:CYS:SG	13:q9:1001:CYC:HBC2	2.08	0.94
7:w9:86:ASP:CG	5:AA:219:PHE:HZ	1.74	0.94
5:AA:17:VAL:HG11	3:EA:85:ARG:CZ	1.97	0.94
3:EA:150:THR:OG1	13:EA:201:CYC:HAD1	1.68	0.94
1:A1:191:ILE:CG2	8:h8:68:ARG:NH1	2.29	0.94
6:A3:15:GLN:CD	6:A3:162:ARG:O	2.10	0.94
3:C3:152:GLY:CA	13:C3:201:CYC:CMD	2.44	0.94
2:O4:85:CYS:HG	13:O4:1001:CYC:H2C	1.18	0.94
3:V4:77:ASN:HD21	2:W4:116:LEU:HA	1.32	0.94
2:U6:32:TYR:CE2	3:V6:35:GLY:CA	2.38	0.94
3:I7:83:CYS:CB	13:I7:201:CYC:CAC	2.16	0.94
8:W8:77:ARG:NH2	13:W8:1001:CYC:O1D	2.00	0.94
7:E9:81:CYS:SG	13:E9:1001:CYC:HBC2	2.08	0.94
7:f9:81:CYS:SG	13:f9:1001:CYC:HBC2	2.08	0.94
7:w9:66:VAL:HG11	5:AA:229:GLN:C	1.91	0.94
3:K1:68:ILE:CD1	13:L1:201:CYC:O2A	2.16	0.94
2:Y2:31:ARG:NH2	2:Y2:35:ALA:HA	1.79	0.94
3:G4:70:PRO:HG3	8:W8:18:LYS:HZ2	1.08	0.94
3:K4:68:ILE:CD1	13:L4:201:CYC:O2A	2.16	0.94
2:O4:119:ILE:CD1	13:O4:1001:CYC:HMA2	1.95	0.94
5:A5:201:PHE:CE1	8:z9:63:TYR:CE1	2.54	0.94
5:A5:249:ASN:HB3	8:F9:68:ARG:HH22	1.22	0.94
3:C5:68:ILE:CD1	13:D5:1001:CYC:CGA	2.41	0.94
2:H6:73:PRO:CB	3:M6:58:ARG:NH2	2.29	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N6:64:ASP:OD1	13:V6:202:CYC:HAD1	1.67	0.94
3:Z6:43:ASN:ND2	13:Z6:201:CYC:HBC1	1.83	0.94
2:D7:31:ARG:HH11	2:D7:103:GLY:N	1.64	0.94
2:O2:34:ARG:NH1	13:W2:203:CYC:HBC2	1.82	0.94
6:A3:71:GLN:CG	6:A3:77:ILE:CD1	2.40	0.94
3:C3:154:CYS:HB2	13:C3:201:CYC:CBC	1.98	0.94
5:A5:17:VAL:HG11	3:E5:85:ARG:CZ	1.97	0.94
3:I6:58:ARG:CZ	2:J6:73:PRO:HB2	1.98	0.94
3:I6:87:MET:HE1	13:I6:201:CYC:HBC3	1.50	0.94
3:K7:83:CYS:HB2	13:K7:201:CYC:C2B	1.94	0.94
8:D8:77:ARG:NH2	13:D8:1001:CYC:O1D	2.00	0.94
3:EA:154:CYS:SG	13:EA:201:CYC:HAC2	2.07	0.94
3:E1:152:GLY:HA3	13:E1:202:CYC:CMD	1.98	0.94
5:A2:223:ALA:HB1	7:X9:78:THR:HG23	1.47	0.94
2:D2:26:GLN:OE1	2:H2:31:ARG:HG2	1.66	0.94
3:K4:150:THR:OG1	13:K4:202:CYC:HAA2	1.67	0.94
3:V4:128:VAL:HG22	13:V4:202:CYC:HMB2	1.48	0.94
4:N6:118:LEU:HD23	3:R6:85:ARG:NH2	1.82	0.94
2:Y6:31:ARG:HH21	2:Y6:35:ALA:CA	1.79	0.94
3:C7:154:CYS:HB2	13:C7:201:CYC:CBC	1.98	0.94
7:c8:41:GLN:HE22	8:d8:25:LEU:HD13	1.26	0.94
7:k9:81:CYS:SG	13:k9:1001:CYC:HBC2	2.08	0.94
7:u9:81:CYS:SG	13:u9:1001:CYC:HBC2	2.08	0.94
3:T1:82:ALA:HB1	13:T1:202:CYC:C2A	1.96	0.94
2:D2:31:ARG:NH2	2:D2:35:ALA:CB	2.28	0.94
3:R2:121:LEU:CD1	13:R2:1001:CYC:HAA2	1.97	0.94
3:Z2:87:MET:HE2	13:Z2:202:CYC:HBC1	0.96	0.94
3:I3:58:ARG:NH2	2:J3:73:PRO:CB	2.31	0.94
3:P4:127:SER:HB3	13:P4:201:CYC:HMC2	1.49	0.94
3:T4:76:THR:CG2	3:T4:79:ARG:NE	2.29	0.94
3:T4:154:CYS:SG	13:T4:201:CYC:CBC	2.56	0.94
5:A5:239:PHE:CB	7:A9:52:LYS:CE	2.40	0.94
3:Z5:83:CYS:SG	13:Z5:201:CYC:HAC2	2.07	0.94
2:Q6:88:ASP:CG	13:Q6:201:CYC:HHB	1.93	0.94
3:V6:58:ARG:CZ	2:W6:73:PRO:HB2	1.96	0.94
6:A7:100:ASN:ND2	6:A7:108:ILE:HD13	1.80	0.94
4:N7:239:LEU:CD2	4:N7:283:VAL:HG22	1.97	0.94
7:A8:20:PRO:HB2	7:I9:151:SER:OG	1.63	0.94
7:L8:25:ARG:CD	7:Z9:25:ARG:HH12	1.64	0.94
7:L8:49:ARG:NH2	8:W9:140:SER:O	2.01	0.94
7:c8:41:GLN:NE2	8:d8:25:LEU:HD13	1.82	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N9:81:CYS:SG	13:N9:1001:CYC:HBC2	2.08	0.94
7:Z9:81:CYS:SG	13:Z9:1001:CYC:HBC2	2.08	0.94
7:d9:81:CYS:SG	13:d9:1001:CYC:HBC2	2.08	0.94
2:FA:34:ARG:NE	13:MA:1003:CYC:H2C	1.83	0.94
3:XA:144:ASN:O	13:XA:202:CYC:HBB1	1.68	0.94
1:A1:131:ILE:HG12	1:A1:139:PHE:HB2	1.49	0.94
1:A1:212:PHE:HD1	7:l8:66:VAL:O	1.48	0.94
3:P1:40:ASP:OD2	13:P1:202:CYC:CHB	2.16	0.94
3:K2:79:ARG:HG2	13:K2:201:CYC:O1A	1.68	0.94
6:A3:73:ARG:HH11	6:A3:73:ARG:HG3	1.33	0.94
2:D3:31:ARG:HH11	2:D3:103:GLY:N	1.64	0.94
3:E5:150:THR:OG1	13:E5:201:CYC:HAD1	1.68	0.94
3:I6:58:ARG:NH2	2:J6:73:PRO:CB	2.31	0.94
8:B8:77:ARG:NH2	13:B8:1001:CYC:O1D	2.00	0.94
8:K8:82:CYS:HG	13:K8:1001:CYC:HAC2	1.05	0.94
7:L8:83:ARG:NH2	13:L8:1001:CYC:O2A	2.01	0.94
8:Y8:109:VAL:HG12	13:Y8:1001:CYC:HAB1	1.50	0.94
7:A9:81:CYS:SG	13:A9:1001:CYC:HBC2	2.08	0.94
7:R9:81:CYS:SG	13:R9:1001:CYC:HBC2	2.08	0.94
1:A1:208:LYS:O	7:c8:63:PRO:HB3	1.67	0.94
2:S2:32:TYR:HE1	3:T2:35:GLY:CA	1.79	0.94
1:A4:131:ILE:HG12	1:A4:139:PHE:CG	2.03	0.94
4:N5:92:GLN:HG2	4:N5:118:LEU:CD2	1.96	0.94
2:B6:73:PRO:HB2	3:G6:58:ARG:HH21	1.12	0.94
2:J6:22:ASN:O	2:J6:26:GLN:HG3	1.67	0.94
7:E8:25:ARG:HD3	7:K9:25:ARG:HH12	1.25	0.94
7:S8:83:ARG:NH2	13:S8:1001:CYC:O2A	2.01	0.94
7:b9:81:CYS:SG	13:b9:1001:CYC:HBC2	2.08	0.94
13:AA:301:CYC:CBC	3:CA:87:MET:CE	2.39	0.94
3:ZA:83:CYS:SG	13:ZA:201:CYC:HAC2	2.07	0.94
3:I2:58:ARG:CZ	2:J2:73:PRO:HB2	1.98	0.93
5:A6:202:TYR:CE1	7:N9:48:GLU:CG	2.50	0.93
7:E8:68:PRO:HG2	7:E9:66:VAL:HG11	0.95	0.93
7:J8:83:ARG:NH2	13:J8:1001:CYC:O2A	2.01	0.93
7:w9:81:CYS:SG	13:w9:1001:CYC:HBC2	2.08	0.93
7:y9:81:CYS:SG	13:y9:1001:CYC:HBC2	2.08	0.93
4:NA:92:GLN:HE22	4:NA:121:TYR:HD1	1.10	0.93
2:J1:119:ILE:HD13	13:J1:1001:CYC:HMA2	1.50	0.93
3:I2:58:ARG:NH2	2:J2:73:PRO:CB	2.31	0.93
6:A3:97:ALA:HB1	6:A3:136:LEU:HD11	0.94	0.93
2:H3:31:ARG:HH21	2:H3:35:ALA:CB	1.81	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:65:GLN:OE1	6:A7:67:PHE:CE1	2.22	0.93
3:C7:58:ARG:CZ	2:D7:73:PRO:CB	2.44	0.93
8:F8:109:VAL:HG12	13:F8:1001:CYC:HAB1	1.50	0.93
7:J8:9:VAL:HG11	10:19:540:PHE:HE2	1.33	0.93
8:f8:77:ARG:NH2	13:f8:1001:CYC:O1D	2.00	0.93
8:s8:77:ARG:NH2	13:s8:1001:CYC:O1D	2.00	0.93
2:B1:83:SER:HB3	8:d8:27:LYS:HG2	1.48	0.93
3:G2:82:ALA:HB3	13:G2:202:CYC:CMD	1.98	0.93
13:A3:301:CYC:HAA2	3:C3:121:LEU:HD11	1.48	0.93
2:F3:119:ILE:CD1	13:F3:1001:CYC:HMA1	1.97	0.93
4:N6:239:LEU:HD23	4:N6:283:VAL:HG22	1.48	0.93
8:M8:77:ARG:NH1	13:M8:1001:CYC:O1D	2.01	0.93
9:U8:36:ASN:ND2	10:09:842:ASN:ND2	2.16	0.93
8:d8:77:ARG:NH1	13:d8:1001:CYC:O1D	2.01	0.93
8:k8:77:ARG:NH1	13:k8:1001:CYC:O1D	2.01	0.93
8:k8:77:ARG:NH2	13:k8:1001:CYC:O1D	2.00	0.93
8:u8:77:ARG:NH1	13:19:1201:CYC:O1D	2.01	0.93
7:X9:81:CYS:SG	13:X9:1001:CYC:HBC2	2.08	0.93
7:s9:81:CYS:SG	13:s9:1001:CYC:HBC2	2.08	0.93
5:AA:60:GLU:CG	5:AA:65:ASN:HD22	1.80	0.93
6:A3:65:GLN:OE1	6:A3:67:PHE:CE1	2.22	0.93
6:A3:96:VAL:HG12	6:A3:105:LEU:CD2	1.98	0.93
3:K4:126:SER:HB3	3:T4:12:GLN:NE2	1.83	0.93
3:T4:154:CYS:HB3	13:T4:201:CYC:HAC2	1.50	0.93
2:S5:32:TYR:CZ	3:T5:35:GLY:HA3	2.02	0.93
3:V5:146:PRO:HB3	13:V5:202:CYC:CBB	1.98	0.93
3:X5:144:ASN:O	13:X5:202:CYC:HBB1	1.68	0.93
3:G6:82:ALA:HB3	13:G6:202:CYC:CMD	1.98	0.93
3:I6:83:CYS:CB	13:I6:201:CYC:CAC	2.16	0.93
2:Q6:91:HIS:CG	13:Q6:201:CYC:CBB	2.52	0.93
2:S6:32:TYR:HE1	3:T6:35:GLY:CA	1.79	0.93
6:A7:84:ARG:HH21	6:A7:144:LEU:CB	1.81	0.93
6:A7:96:VAL:HG12	6:A7:105:LEU:CD2	1.98	0.93
2:F7:119:ILE:CD1	13:F7:1001:CYC:HMA1	1.98	0.93
8:I8:77:ARG:NH1	13:I8:1001:CYC:O1D	2.01	0.93
8:M8:77:ARG:NH2	13:M8:1001:CYC:O1D	2.00	0.93
7:Q8:83:ARG:NH2	13:Q8:1001:CYC:O2A	2.01	0.93
8:W8:77:ARG:NH1	13:W8:1001:CYC:O1D	2.01	0.93
9:49:41:GLN:NE2	13:F9:1001:CYC:HB	1.67	0.93
7:T9:81:CYS:SG	13:T9:1001:CYC:HBC2	2.08	0.93
3:T1:154:CYS:HB3	13:T1:201:CYC:HAC2	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q2:91:HIS:CG	13:Q2:201:CYC:CBB	2.52	0.93
3:M5:154:CYS:SG	13:M5:1003:CYC:CAB	2.56	0.93
8:F8:77:ARG:NH1	13:F8:1001:CYC:O1D	2.01	0.93
8:f8:77:ARG:NH1	13:f8:1001:CYC:O1D	2.01	0.93
7:C9:81:CYS:SG	13:C9:1001:CYC:HBC2	2.08	0.93
7:I9:81:CYS:SG	13:I9:1001:CYC:HBC2	2.07	0.93
7:o9:79:ALA:CB	5:AA:198:LEU:HB3	1.97	0.93
7:o9:81:CYS:SG	13:o9:1001:CYC:HBC2	2.08	0.93
8:p9:77:ARG:NH2	13:p9:1001:CYC:O2D	2.02	0.93
4:NA:62:LEU:CG	4:NA:72:PHE:CG	2.52	0.93
2:B2:86:ALA:CB	7:k9:60:GLN:NE2	2.16	0.93
4:N2:239:LEU:HD23	4:N2:283:VAL:HG22	1.48	0.93
2:B3:73:PRO:HB2	3:G3:58:ARG:HH22	1.23	0.93
2:B3:123:PHE:CE2	13:B3:1001:CYC:CAA	2.51	0.93
3:K3:110:CYS:HA	13:K3:201:CYC:HBC1	1.50	0.93
3:E4:152:GLY:HA3	13:E4:202:CYC:CMD	1.98	0.93
5:A5:223:ALA:HB1	7:q9:78:THR:HG21	1.49	0.93
3:K6:83:CYS:HB2	13:K6:201:CYC:HMB3	1.51	0.93
8:P8:77:ARG:NH1	13:P8:1001:CYC:O1D	2.01	0.93
8:P8:77:ARG:NH2	13:P8:1001:CYC:O1D	2.00	0.93
7:j8:110:ILE:HD13	10:09:1117:TRP:HZ2	1.33	0.93
8:k8:115:GLU:CD	7:C9:49:ARG:HH21	1.77	0.93
1:A1:195:ILE:CG2	7:c8:80:THR:HG22	1.93	0.93
3:M1:26:ASP:OD1	2:J3:51:ARG:CZ	2.16	0.93
3:T1:154:CYS:SG	13:T1:201:CYC:CBC	2.56	0.93
2:B6:123:PHE:CE2	13:B6:1001:CYC:CAA	2.51	0.93
2:W6:74:GLN:OE1	2:W6:124:ASP:HB2	1.69	0.93
8:K8:109:VAL:HG12	13:K8:1001:CYC:HAB1	1.50	0.93
8:M8:109:VAL:HG12	13:M8:1001:CYC:HAB1	1.50	0.93
8:o8:92:TYR:CZ	8:o8:108:ARG:HG2	2.02	0.93
8:q8:84:ARG:HH11	10:19:1059:ASN:HD21	1.16	0.93
3:K1:126:SER:HB3	3:T1:12:GLN:NE2	1.83	0.93
5:A6:60:GLU:C	5:A6:62:LEU:HD13	1.93	0.93
2:B7:123:PHE:CE2	13:B7:1001:CYC:CAA	2.51	0.93
8:I8:109:VAL:HG12	13:I8:1001:CYC:HAB1	1.50	0.93
7:O8:66:VAL:CG2	5:AA:234:GLN:NE2	2.30	0.93
8:T8:109:VAL:HG12	13:T8:1001:CYC:HAB1	1.50	0.93
9:U8:46:LYS:HD3	10:09:848:GLN:HE22	1.10	0.93
7:j8:83:ARG:NH2	13:j8:1001:CYC:O2A	2.01	0.93
8:q8:109:VAL:HG12	13:q8:1001:CYC:HAB1	1.50	0.93
7:T9:65:VAL:HG11	13:T9:1001:CYC:OC	1.69	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:165:TYR:CE2	3:E1:78:ARG:NH1	2.37	0.93
3:C4:13:ALA:HB2	3:C4:20:LEU:CD2	1.99	0.93
3:I4:89:ILE:CG2	13:I4:201:CYC:HBB3	1.99	0.93
2:F5:34:ARG:NE	13:M5:1003:CYC:H2C	1.83	0.93
2:O6:119:ILE:CD1	13:O6:1001:CYC:HMA1	1.95	0.93
2:Y6:119:ILE:HD11	13:Y6:201:CYC:HMA1	0.93	0.93
7:A8:83:ARG:NH2	13:A8:1001:CYC:O2A	2.01	0.93
8:T8:77:ARG:NH1	13:T8:1001:CYC:O1D	2.01	0.93
7:V8:83:ARG:NH2	13:V8:1001:CYC:O2A	2.01	0.93
8:a8:77:ARG:NH1	13:b8:1001:CYC:O1D	2.01	0.93
8:h8:77:ARG:NH1	13:h8:1001:CYC:O1D	2.01	0.93
8:m8:109:VAL:HG12	13:09:1201:CYC:HAB1	1.50	0.93
8:q8:77:ARG:NH2	13:q8:1001:CYC:O1D	2.00	0.93
8:s8:77:ARG:NH1	13:s8:1001:CYC:O1D	2.01	0.93
7:G9:65:VAL:HG11	13:G9:1001:CYC:OC	1.69	0.93
7:b9:65:VAL:HG11	13:b9:1001:CYC:OC	1.69	0.93
7:k9:65:VAL:HG11	13:k9:1001:CYC:OC	1.69	0.93
8:z9:77:ARG:NH2	13:z9:1001:CYC:O2D	2.02	0.93
1:A1:129:ILE:HG22	13:C1:301:CYC:O1A	1.67	0.93
1:A1:131:ILE:HG12	1:A1:139:PHE:CG	2.03	0.93
2:F2:119:ILE:CD1	13:F2:1001:CYC:HMA1	1.98	0.93
3:V2:58:ARG:CZ	2:W2:73:PRO:HB2	1.96	0.93
3:Z2:43:ASN:ND2	13:Z2:201:CYC:HBC1	1.83	0.93
3:G3:82:ALA:HB3	13:G3:201:CYC:CMD	1.98	0.93
3:P5:89:ILE:HG12	13:P5:201:CYC:CBB	1.98	0.93
3:T5:60:LEU:HD21	13:T5:201:CYC:HAB2	1.51	0.93
5:A6:230:GLY:H	7:I9:66:VAL:HG12	1.31	0.93
6:A7:73:ARG:HG3	6:A7:73:ARG:HH11	1.32	0.93
7:C8:83:ARG:NH2	13:C8:1001:CYC:O2A	2.01	0.93
8:R8:109:VAL:HG12	13:R8:1001:CYC:HAB1	1.50	0.93
8:a8:77:ARG:NH2	13:b8:1001:CYC:O1D	2.00	0.93
7:e8:83:ARG:NH2	13:e8:1001:CYC:O2A	2.01	0.93
8:o8:82:CYS:SG	13:o8:1001:CYC:NC	2.41	0.93
7:G9:81:CYS:SG	13:G9:1001:CYC:HBC2	2.08	0.93
8:U9:77:ARG:NH2	13:U9:1001:CYC:O2D	2.02	0.93
8:c9:77:ARG:NH2	13:c9:1001:CYC:O2D	2.02	0.93
7:w9:65:VAL:HG11	13:w9:1001:CYC:OC	1.69	0.93
8:x9:77:ARG:NH2	13:x9:1001:CYC:O2D	2.02	0.93
4:N1:229:ALA:O	4:N1:231:GLY:N	2.02	0.92
3:P1:127:SER:HB3	13:P1:201:CYC:HMC2	1.49	0.92
3:C2:83:CYS:HB2	13:C2:201:CYC:CAC	1.97	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:154:CYS:HB2	13:C2:202:CYC:CBC	1.98	0.92
2:Q2:30:GLY:HA3	2:U2:30:GLY:HA3	1.51	0.92
6:A3:84:ARG:HH21	6:A3:144:LEU:CB	1.81	0.92
3:E3:87:MET:HE1	13:E3:201:CYC:HBC1	1.46	0.92
2:D5:32:TYR:CE1	3:E5:35:GLY:HA3	2.04	0.92
4:N5:62:LEU:CG	4:N5:72:PHE:CG	2.51	0.92
3:C6:44:ARG:NH1	3:C6:145:ASP:O	2.03	0.92
3:K7:68:ILE:HD12	13:L7:201:CYC:O1A	1.69	0.92
8:D8:77:ARG:NH1	13:D8:1001:CYC:O1D	2.01	0.92
7:E8:49:ARG:HH12	8:n9:140:SER:CB	1.81	0.92
8:K8:77:ARG:NH1	13:K8:1001:CYC:O1D	2.01	0.92
8:P8:109:VAL:HG12	13:P8:1001:CYC:HAB1	1.50	0.92
8:R8:77:ARG:NH1	13:R8:1001:CYC:O1D	2.01	0.92
8:u8:77:ARG:NH2	13:19:1201:CYC:O1D	2.00	0.92
7:E9:65:VAL:HG11	13:E9:1001:CYC:OC	1.69	0.92
7:I9:65:VAL:HG11	13:I9:1001:CYC:OC	1.69	0.92
8:t9:63:TYR:O	5:AA:205:LYS:NZ	2.01	0.92
8:v9:77:ARG:NH2	13:v9:1001:CYC:O2D	2.02	0.92
5:A2:60:GLU:C	5:A2:62:LEU:HD13	1.93	0.92
2:O2:22:ASN:O	2:O2:26:GLN:HG3	1.69	0.92
2:W2:74:GLN:OE1	2:W2:124:ASP:HB2	1.69	0.92
2:B4:87:ARG:HB2	8:W8:23:ALA:HB2	0.94	0.92
3:P4:40:ASP:OD2	13:P4:202:CYC:CHB	2.16	0.92
3:G6:34:GLU:HG3	3:G6:157:LEU:CD2	1.96	0.92
2:W6:29:ARG:NH1	13:X6:202:CYC:CMD	2.32	0.92
2:H7:119:ILE:CD1	13:H7:1001:CYC:HMA1	2.00	0.92
3:K7:110:CYS:HA	13:K7:201:CYC:HBC1	1.51	0.92
3:M7:44:ARG:HH21	3:M7:149:ILE:HG12	1.30	0.92
7:Z8:83:ARG:NH2	13:Z8:1001:CYC:O2A	2.01	0.92
8:q8:77:ARG:NH1	13:q8:1001:CYC:O1D	2.01	0.92
13:39:1001:CYC:O2D	8:n9:77:ARG:NH2	2.02	0.92
7:K9:81:CYS:SG	13:K9:1001:CYC:HBC2	2.08	0.92
8:L9:77:ARG:NH2	13:L9:1001:CYC:O2D	2.02	0.92
3:MA:154:CYS:SG	13:MA:1003:CYC:CAB	2.56	0.92
1:A1:54:PHE:HB3	1:A1:58:VAL:HG23	1.51	0.92
3:C1:154:CYS:SG	13:C1:302:CYC:HBC2	2.10	0.92
3:P1:93:TYR:HE2	13:P1:201:CYC:CBB	1.83	0.92
2:Q2:88:ASP:CG	13:Q2:201:CYC:HHB	1.93	0.92
2:B3:119:ILE:CD1	13:B3:1001:CYC:HMA3	1.99	0.92
3:K3:68:ILE:HD12	13:L3:201:CYC:O1A	1.69	0.92
13:N5:301:CYC:HBC1	3:R5:87:MET:CE	1.93	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R6:87:MET:HE2	13:R6:1001:CYC:HBC1	1.50	0.92
3:I7:87:MET:HE1	13:I7:201:CYC:HBC3	1.50	0.92
3:K7:83:CYS:HB2	13:K7:201:CYC:HMB3	1.51	0.92
7:c8:83:ARG:NH2	13:c8:1001:CYC:O2A	2.01	0.92
8:q8:108:ARG:NH2	10:19:1029:THR:O	2.03	0.92
13:19:1203:CYC:O2D	8:Y9:77:ARG:NH2	2.02	0.92
13:19:1205:CYC:O2D	8:h9:77:ARG:NH2	2.02	0.92
3:VA:146:PRO:HB3	13:VA:202:CYC:CBB	1.98	0.92
3:G7:150:THR:OG1	13:G7:202:CYC:HAD1	1.70	0.92
7:E8:83:ARG:NH2	13:E8:1001:CYC:O2A	2.01	0.92
8:Y8:77:ARG:NH1	13:Y8:1001:CYC:O1D	2.01	0.92
10:19:954:ARG:HG2	10:19:954:ARG:HH21	1.33	0.92
8:D9:77:ARG:NH2	13:D9:1001:CYC:O2D	2.02	0.92
8:O9:77:ARG:NH2	13:O9:1001:CYC:O2D	2.02	0.92
8:r9:77:ARG:NH2	13:r9:1001:CYC:O2D	2.02	0.92
3:Z1:40:ASP:OD2	13:Z1:201:CYC:NA	2.03	0.92
3:E2:87:MET:HE1	13:E2:201:CYC:HBC1	1.46	0.92
3:K2:68:ILE:HD12	13:L2:201:CYC:O1A	1.69	0.92
3:G3:150:THR:OG1	13:G3:202:CYC:HAD1	1.70	0.92
3:I3:87:MET:HE1	13:I3:201:CYC:HBC3	1.50	0.92
4:N3:239:LEU:HD23	4:N3:283:VAL:HG22	1.48	0.92
1:A4:131:ILE:HG12	1:A4:139:PHE:HB2	1.49	0.92
3:I5:87:MET:HE3	13:I5:201:CYC:HBC1	0.92	0.92
4:N5:62:LEU:HD23	4:N5:72:PHE:CD1	2.01	0.92
3:V5:68:ILE:HD13	13:W5:1001:CYC:CGA	2.00	0.92
5:A6:202:TYR:CE1	7:N9:48:GLU:HG3	2.03	0.92
2:Q6:30:GLY:HA3	2:U6:30:GLY:HA3	1.51	0.92
3:Z6:43:ASN:ND2	13:Z6:201:CYC:CBC	2.33	0.92
6:A7:97:ALA:HB1	6:A7:136:LEU:HD11	0.94	0.92
8:d8:82:CYS:HG	13:d8:1001:CYC:HAC2	1.03	0.92
7:A9:65:VAL:HG11	13:A9:1001:CYC:OC	1.69	0.92
7:P9:65:VAL:HG11	13:P9:1001:CYC:OC	1.69	0.92
7:w9:59:PHE:O	5:AA:228:ASN:ND2	2.02	0.92
3:V1:36:ASN:HD22	13:V1:201:CYC:HAD1	1.33	0.92
2:Y2:119:ILE:HD11	13:Y2:201:CYC:HMA1	0.93	0.92
2:H3:31:ARG:HH21	2:H3:35:ALA:HB2	1.34	0.92
3:K3:79:ARG:HG2	13:K3:201:CYC:O1A	1.68	0.92
1:A4:165:TYR:CE2	3:E4:78:ARG:NH1	2.37	0.92
3:T4:82:ALA:HB1	13:T4:202:CYC:HAA2	1.49	0.92
2:F5:62:GLN:C	3:G7:66:GLN:HG3	1.95	0.92
2:L5:34:ARG:NH2	2:L5:150:GLU:HB2	1.85	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G6:150:THR:OG1	13:G6:201:CYC:HAD1	1.70	0.92
3:Z6:152:GLY:H	13:Z6:201:CYC:C4B	1.82	0.92
3:K7:79:ARG:HG2	13:K7:201:CYC:O1A	1.68	0.92
2:L7:31:ARG:HH21	2:L7:35:ALA:CB	1.81	0.92
9:b8:24:GLN:CD	10:19:963:THR:HA	1.94	0.92
13:AA:304:CYC:O1A	3:KA:121:LEU:CD2	2.17	0.92
2:L2:31:ARG:HH21	2:L2:35:ALA:CB	1.81	0.92
6:A3:110:LEU:CD2	6:A3:114:LEU:HD12	1.99	0.92
3:T5:128:VAL:CG2	13:T5:201:CYC:HMB2	1.99	0.92
2:B6:119:ILE:CD1	13:B6:1001:CYC:HMA3	1.99	0.92
2:F6:119:ILE:CD1	13:F6:1001:CYC:HMA1	1.98	0.92
3:R6:87:MET:HE1	13:R6:1001:CYC:HBC1	0.93	0.92
8:B8:77:ARG:NH1	13:B8:1001:CYC:O1D	2.01	0.92
7:g8:83:ARG:NH2	13:g8:1001:CYC:O2A	2.01	0.92
7:w9:86:ASP:HB2	5:AA:219:PHE:CZ	2.04	0.92
2:DA:32:TYR:CE1	3:EA:35:GLY:HA3	2.04	0.92
2:LA:34:ARG:NH2	2:LA:150:GLU:HB2	1.85	0.92
2:H3:31:ARG:HE	2:H3:103:GLY:HA3	1.34	0.92
3:I3:58:ARG:CZ	2:J3:73:PRO:HB2	1.98	0.92
1:A4:129:ILE:HG21	13:C4:301:CYC:O1A	1.69	0.92
3:C6:154:CYS:HB2	13:C6:202:CYC:CBC	1.98	0.92
2:H6:119:ILE:CD1	13:H6:1001:CYC:HMA1	1.99	0.92
7:n8:110:ILE:HD11	10:09:954:ARG:HD2	1.51	0.92
7:p8:83:ARG:NH2	13:p8:1001:CYC:O2A	2.01	0.92
8:s8:109:VAL:HG12	13:s8:1001:CYC:HAB1	1.50	0.92
8:u8:88:TYR:CE1	10:19:987:SER:HA	2.04	0.92
7:i9:65:VAL:HG11	13:i9:1001:CYC:OC	1.69	0.92
8:l9:77:ARG:NH2	13:l9:1001:CYC:O2D	2.02	0.92
3:IA:87:MET:HE3	13:IA:201:CYC:HBC1	0.92	0.92
1:A1:201:LEU:CG	7:c8:82:LEU:HD13	1.99	0.92
1:A1:212:PHE:HB3	7:l8:66:VAL:C	1.94	0.92
2:O1:85:CYS:HA	13:O1:1001:CYC:HAC2	0.95	0.92
2:O1:85:CYS:HG	13:O1:1001:CYC:H2C	1.23	0.92
3:K2:110:CYS:HA	13:K2:201:CYC:HBC1	1.51	0.92
3:K3:83:CYS:HB2	13:K3:201:CYC:HMB3	1.51	0.92
1:A4:129:ILE:HG22	13:C4:301:CYC:O1A	1.67	0.92
1:A4:195:ILE:CG2	7:V8:80:THR:HG22	1.77	0.92
3:P4:68:ILE:CD1	13:Q4:201:CYC:O2A	2.18	0.92
3:P6:37:LYS:HD3	3:P6:154:CYS:SG	2.10	0.92
8:h8:109:VAL:HG12	13:h8:1001:CYC:HAB1	1.50	0.92
8:k8:115:GLU:CD	7:C9:49:ARG:NH2	2.27	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:n8:83:ARG:NH2	13:n8:1001:CYC:O2A	2.01	0.92
7:t8:83:ARG:NH2	13:t8:1001:CYC:O2A	2.01	0.92
8:u8:87:ASP:HB3	10:19:989:GLN:HE22	1.35	0.92
8:u8:109:VAL:HG12	13:19:1201:CYC:HAB1	1.50	0.92
7:y9:65:VAL:HG11	13:y9:1001:CYC:OC	1.69	0.92
3:TA:60:LEU:HD21	13:TA:201:CYC:HAB2	1.51	0.92
3:TA:128:VAL:CG2	13:TA:201:CYC:HMB2	1.99	0.92
2:Q2:91:HIS:HB3	13:Q2:201:CYC:CAB	2.00	0.92
6:A7:110:LEU:CD2	6:A7:114:LEU:HD12	1.99	0.92
3:C7:44:ARG:NH1	3:C7:145:ASP:O	2.03	0.92
8:f8:109:VAL:HG12	13:f8:1001:CYC:HAB1	1.50	0.92
7:l8:83:ARG:NH2	13:l8:1001:CYC:O2A	2.01	0.92
7:o9:65:VAL:HG11	13:o9:1001:CYC:OC	1.69	0.92
13:AA:302:CYC:HBC1	3:EA:87:MET:CE	1.99	0.92
2:B2:73:PRO:HB2	3:G2:58:ARG:HH21	1.13	0.91
1:A4:195:ILE:HD11	8:a8:63:TYR:HE1	1.32	0.91
2:B4:119:ILE:CD1	13:B4:1001:CYC:HMA1	2.00	0.91
3:C4:154:CYS:SG	13:C4:302:CYC:HBC2	2.10	0.91
2:O4:85:CYS:HA	13:O4:1001:CYC:HAC2	0.95	0.91
6:A7:64:ARG:HH21	6:A7:64:ARG:HG2	1.34	0.91
3:G7:82:ALA:HB3	13:G7:201:CYC:CMD	1.98	0.91
8:k8:109:VAL:HG12	13:k8:1001:CYC:HAB1	1.50	0.91
7:N9:65:VAL:HG11	13:N9:1001:CYC:OC	1.69	0.91
7:X9:65:VAL:HG11	13:X9:1001:CYC:OC	1.69	0.91
8:j9:77:ARG:NH2	13:j9:1001:CYC:O2D	2.02	0.91
3:C1:13:ALA:HB2	3:C1:20:LEU:CD2	1.99	0.91
5:A2:194:TRP:HD1	7:d9:66:VAL:HG13	1.33	0.91
2:B2:119:ILE:CD1	13:B2:1001:CYC:HMA3	1.99	0.91
3:Z2:152:GLY:H	13:Z2:201:CYC:C4B	1.82	0.91
13:A5:302:CYC:HBC1	3:E5:87:MET:CE	1.99	0.91
2:H6:31:ARG:NH2	2:H6:35:ALA:HB2	1.80	0.91
3:I7:58:ARG:NH2	2:J7:73:PRO:CB	2.31	0.91
8:H9:77:ARG:NH2	13:H9:1001:CYC:O2D	2.02	0.91
7:Z9:65:VAL:HG11	13:Z9:1001:CYC:OC	1.69	0.91
2:B1:83:SER:OG	8:d8:27:LYS:HE3	1.70	0.91
3:G1:82:ALA:HB3	13:G1:202:CYC:C2D	2.01	0.91
3:K1:121:LEU:HG	13:K1:201:CYC:O2D	1.70	0.91
3:R2:87:MET:HE1	13:R2:1001:CYC:HBC1	0.93	0.91
4:N4:229:ALA:O	4:N4:231:GLY:N	2.02	0.91
3:Z4:40:ASP:OD2	13:Z4:201:CYC:NA	2.03	0.91
3:K6:79:ARG:HG2	13:K6:201:CYC:O1A	1.68	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K6:121:LEU:CD2	13:K6:201:CYC:CGD	2.48	0.91
4:N6:10:LEU:CD2	4:N6:169:PHE:CE1	2.54	0.91
7:H8:83:ARG:NH2	13:H8:1001:CYC:O2A	2.01	0.91
8:o8:115:GLU:C	10:09:1114:LYS:NZ	2.28	0.91
7:r8:83:ARG:NH2	13:r8:1001:CYC:O2A	2.01	0.91
13:19:1204:CYC:O2D	8:a9:77:ARG:NH2	2.02	0.91
8:S9:77:ARG:NH2	13:S9:1001:CYC:O2D	2.02	0.91
7:d9:65:VAL:HG11	13:d9:1001:CYC:OC	1.69	0.91
7:f9:65:VAL:HG11	13:f9:1001:CYC:OC	1.69	0.91
4:N2:154:PHE:HZ	4:N2:172:TYR:HH	1.18	0.91
5:A5:249:ASN:CB	8:F9:68:ARG:HH22	1.83	0.91
3:E5:154:CYS:HB3	13:E5:201:CYC:HAC2	1.51	0.91
2:D6:119:ILE:HD11	13:D6:1001:CYC:HMA1	1.53	0.91
3:I6:115:ARG:HH21	4:N6:9:ARG:HD2	1.32	0.91
3:P6:44:ARG:HH21	3:P6:149:ILE:HG13	0.84	0.91
2:B7:34:ARG:NH2	13:K7:202:CYC:HAC2	1.84	0.91
7:e8:110:ILE:HD11	10:09:972:GLN:HG3	1.48	0.91
8:m8:77:ARG:NH1	13:09:1201:CYC:O1D	2.01	0.91
8:B9:77:ARG:NH2	13:B9:1001:CYC:O2D	2.02	0.91
8:J9:77:ARG:NH2	13:J9:1001:CYC:O2D	2.02	0.91
7:b9:81:CYS:SG	13:b9:1001:CYC:NC	2.44	0.91
8:t9:77:ARG:NH2	13:t9:1001:CYC:O2D	2.02	0.91
7:u9:65:VAL:HG11	13:u9:1001:CYC:OC	1.69	0.91
5:AA:179:TYR:CE2	13:AA:303:CYC:O1D	2.23	0.91
4:NA:160:GLN:HG2	13:TA:201:CYC:OC	1.69	0.91
3:PA:68:ILE:CD1	13:PA:203:CYC:CGA	2.45	0.91
3:G1:83:CYS:HB2	13:G1:202:CYC:HAC2	0.91	0.91
3:K1:68:ILE:HD12	13:L1:201:CYC:O1A	1.70	0.91
3:P1:68:ILE:CD1	13:Q1:201:CYC:O2A	2.18	0.91
3:T1:82:ALA:HB1	13:T1:202:CYC:CAA	2.00	0.91
2:B2:34:ARG:NH2	13:K2:202:CYC:HAC2	1.85	0.91
3:C2:44:ARG:NH1	3:C2:145:ASP:O	2.03	0.91
2:D3:119:ILE:HD11	13:D3:1001:CYC:HMA1	1.53	0.91
4:N5:160:GLN:HG2	13:T5:201:CYC:OC	1.69	0.91
2:L6:31:ARG:HH21	2:L6:35:ALA:CB	1.81	0.91
2:O6:22:ASN:O	2:O6:26:GLN:HG3	1.69	0.91
3:X6:38:ARG:HG2	3:X6:157:LEU:HD22	1.53	0.91
7:X8:83:ARG:NH2	13:X8:1001:CYC:O2A	2.01	0.91
8:d8:109:VAL:HG12	13:d8:1001:CYC:HAB1	1.50	0.91
7:E9:81:CYS:SG	13:E9:1001:CYC:NC	2.44	0.91
7:G9:81:CYS:SG	13:G9:1001:CYC:NC	2.44	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:f9:81:CYS:SG	13:f9:1001:CYC:NC	2.44	0.91
7:y9:81:CYS:SG	13:y9:1001:CYC:NC	2.44	0.91
3:I1:89:ILE:CG2	13:I1:201:CYC:HBB3	1.99	0.91
3:G2:150:THR:OG1	13:G2:201:CYC:HAD1	1.70	0.91
3:K2:121:LEU:CD2	13:K2:201:CYC:CGD	2.48	0.91
3:K3:121:LEU:CD2	13:K3:201:CYC:CGD	2.48	0.91
1:A4:168:ARG:HB3	1:A4:173:VAL:CG2	2.00	0.91
5:A5:205:LYS:HE3	8:z9:63:TYR:O	1.67	0.91
2:B6:34:ARG:NH2	13:K6:202:CYC:HAC2	1.84	0.91
2:D6:34:ARG:HH12	2:D6:146:GLN:HE21	0.91	0.91
2:H6:31:ARG:HH22	2:H6:35:ALA:HB1	1.15	0.91
3:K7:121:LEU:CD2	13:K7:201:CYC:CGD	2.48	0.91
7:O8:83:ARG:NH2	13:O8:1001:CYC:O2A	2.01	0.91
8:k8:11:ASN:ND2	10:09:1122:PRO:HD3	1.86	0.91
13:q8:1001:CYC:HMA3	10:19:1034:THR:HG21	1.53	0.91
7:K9:65:VAL:HG11	13:K9:1001:CYC:OC	1.69	0.91
7:X9:81:CYS:SG	13:X9:1001:CYC:NC	2.44	0.91
7:s9:81:CYS:SG	13:s9:1001:CYC:NC	2.44	0.91
2:JA:32:TYR:HE1	3:KA:35:GLY:HA3	1.35	0.91
1:A1:168:ARG:HB3	1:A1:173:VAL:CG2	2.00	0.91
6:A3:14:ASN:O	13:E3:201:CYC:HMA2	1.70	0.91
13:A5:304:CYC:O1A	3:K5:121:LEU:CD2	2.17	0.91
3:G5:39:LEU:HD21	13:G5:201:CYC:CBB	1.99	0.91
7:H8:20:PRO:HB2	7:X9:151:SER:OG	1.71	0.91
13:09:1203:CYC:O2D	8:M9:77:ARG:NH2	2.02	0.91
13:29:1001:CYC:O2D	8:W9:77:ARG:NH2	2.02	0.91
1:A1:212:PHE:HD1	7:l8:66:VAL:HB	1.32	0.91
2:B1:119:ILE:CD1	13:B1:1001:CYC:HMA1	2.00	0.91
3:T1:82:ALA:HB3	13:T1:202:CYC:C2A	2.01	0.91
3:T1:83:CYS:SG	13:T1:202:CYC:NB	2.43	0.91
3:G2:44:ARG:CZ	3:G2:145:ASP:HB2	2.01	0.91
3:P2:44:ARG:NH2	3:P2:149:ILE:HG12	1.73	0.91
3:V2:128:VAL:HG22	13:V2:202:CYC:HMB3	1.52	0.91
2:B3:34:ARG:NH2	13:K3:202:CYC:HAC2	1.85	0.91
1:A4:54:PHE:HB3	1:A4:58:VAL:HG23	1.51	0.91
2:B4:86:ALA:CB	8:W8:26:GLU:HG2	1.99	0.91
5:A5:44:ILE:CG2	5:A5:75:LYS:HG2	2.01	0.91
3:I6:41:VAL:CG2	13:I6:202:CYC:CMB	2.48	0.91
3:P6:43:ASN:HD22	13:W6:201:CYC:CBC	1.83	0.91
3:G7:44:ARG:CZ	3:G7:145:ASP:HB2	2.01	0.91
3:K7:83:CYS:HB3	13:K7:201:CYC:C2B	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D8:109:VAL:HG12	13:D8:1001:CYC:HAB1	1.50	0.91
7:O8:15:ALA:CB	10:09:765:GLU:HA	2.00	0.91
8:a8:109:VAL:HG12	13:b8:1001:CYC:HAB1	1.50	0.91
7:K9:81:CYS:SG	13:K9:1001:CYC:NC	2.44	0.91
2:F1:119:ILE:HD11	13:F1:1001:CYC:HAA1	1.53	0.91
2:H2:119:ILE:CD1	13:H2:1001:CYC:HMA1	1.99	0.91
3:I2:83:CYS:CB	13:I2:201:CYC:CAC	2.16	0.91
3:G3:34:GLU:HG3	3:G3:157:LEU:CD2	1.96	0.91
3:T4:83:CYS:SG	13:T4:202:CYC:NB	2.43	0.91
5:A5:239:PHE:HD2	7:A9:52:LYS:HG2	0.78	0.91
2:B7:73:PRO:HB2	3:G7:58:ARG:HH21	1.13	0.91
2:B7:119:ILE:CD1	13:B7:1001:CYC:HMA3	1.99	0.91
2:D7:34:ARG:HH12	2:D7:146:GLN:HE21	0.91	0.91
8:F9:77:ARG:NH2	13:F9:1001:CYC:O2D	2.02	0.91
7:R9:65:VAL:HG11	13:R9:1001:CYC:OC	1.69	0.91
7:q9:65:VAL:HG11	13:q9:1001:CYC:OC	1.69	0.91
7:w9:81:CYS:SG	13:w9:1001:CYC:NC	2.44	0.91
3:GA:39:LEU:HD21	13:GA:1002:CYC:CBB	1.99	0.91
3:P2:37:LYS:HD3	3:P2:154:CYS:SG	2.10	0.91
3:Z2:43:ASN:ND2	13:Z2:201:CYC:CBC	2.33	0.91
1:A4:67:ASN:ND2	3:K4:92:ARG:NH1	2.06	0.91
3:K4:68:ILE:HD13	13:L4:201:CYC:CGA	2.01	0.91
3:V4:36:ASN:HD22	13:V4:201:CYC:HAD1	1.33	0.91
5:A5:179:TYR:CE2	13:A5:303:CYC:O1D	2.23	0.91
5:A5:205:LYS:NZ	8:z9:63:TYR:O	1.97	0.91
2:U6:85:CYS:SG	13:U6:202:CYC:HAC2	2.11	0.91
2:H7:73:PRO:HB2	3:M7:58:ARG:CZ	2.01	0.91
7:R9:81:CYS:SG	13:R9:1001:CYC:NC	2.44	0.91
8:e9:77:ARG:NH2	13:e9:1001:CYC:O2D	2.02	0.91
7:o9:81:CYS:SG	13:o9:1001:CYC:NC	2.44	0.91
7:s9:65:VAL:HG11	13:s9:1001:CYC:OC	1.69	0.91
7:u9:81:CYS:SG	13:u9:1001:CYC:NC	2.44	0.91
3:PA:89:ILE:HG12	13:PA:201:CYC:CBB	1.99	0.91
3:VA:68:ILE:HD13	13:WA:1001:CYC:CGA	2.00	0.91
2:L3:31:ARG:HH21	2:L3:35:ALA:CB	1.81	0.90
2:B4:83:SER:OG	8:W8:27:LYS:CE	2.14	0.90
2:F4:136:HIS:CE1	2:F4:140:ASN:HD22	1.82	0.90
3:V6:128:VAL:HG22	13:V6:202:CYC:HMB3	1.51	0.90
8:m8:116:THR:HA	10:09:1103:LEU:HD21	1.53	0.90
9:49:26:THR:HG21	13:D9:1001:CYC:HMA1	1.52	0.90
7:C9:65:VAL:HG11	13:C9:1001:CYC:OC	1.69	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I9:81:CYS:SG	13:I9:1001:CYC:NC	2.44	0.90
3:K1:126:SER:HB2	3:T1:12:GLN:CD	1.96	0.90
3:T1:82:ALA:HB1	13:T1:202:CYC:HAA2	1.49	0.90
3:K2:83:CYS:HB2	13:K2:201:CYC:HMB3	1.51	0.90
4:N2:118:LEU:HD23	3:R2:85:ARG:CZ	2.01	0.90
3:P4:93:TYR:HE2	13:P4:201:CYC:CBB	1.83	0.90
3:C6:154:CYS:HB2	13:C6:202:CYC:HAC2	1.54	0.90
2:F6:20:LEU:HD23	2:F6:24:GLU:OE2	1.72	0.90
4:N6:118:LEU:HD23	3:R6:85:ARG:CZ	2.01	0.90
3:I7:41:VAL:CG2	13:I7:202:CYC:CMB	2.48	0.90
8:W8:109:VAL:HG12	13:W8:1001:CYC:HAB1	1.50	0.90
7:i9:81:CYS:SG	13:i9:1001:CYC:NC	2.44	0.90
2:B2:34:ARG:HH22	13:K2:202:CYC:HAC2	1.36	0.90
2:H3:73:PRO:HB2	3:M3:58:ARG:CZ	2.01	0.90
2:J4:119:ILE:HD13	13:J4:1001:CYC:HMA2	1.50	0.90
3:T4:82:ALA:HB3	13:T4:202:CYC:C2A	2.00	0.90
5:A5:241:ILE:HG21	7:A9:82:LEU:HD11	1.49	0.90
9:49:23:LEU:CD2	13:D9:1001:CYC:C4B	2.49	0.90
7:N9:81:CYS:SG	13:N9:1001:CYC:NC	2.44	0.90
7:Z9:81:CYS:SG	13:Z9:1001:CYC:NC	2.44	0.90
7:k9:81:CYS:SG	13:k9:1001:CYC:NC	2.44	0.90
7:q9:81:CYS:SG	13:q9:1001:CYC:NC	2.44	0.90
1:A1:129:ILE:HG21	13:C1:301:CYC:O1A	1.69	0.90
3:I2:41:VAL:CG2	13:I2:202:CYC:CMB	2.48	0.90
3:I3:41:VAL:CG2	13:I3:202:CYC:CMB	2.48	0.90
3:G4:83:CYS:HB2	13:G4:202:CYC:HAC2	0.91	0.90
2:S4:29:ARG:NH2	13:T4:201:CYC:OB	2.03	0.90
2:S4:85:CYS:HA	13:S4:1001:CYC:HAC2	1.54	0.90
3:Z5:44:ARG:HG3	3:Z5:142:ILE:HG22	1.53	0.90
3:P6:83:CYS:SG	13:P6:201:CYC:HAC2	2.11	0.90
6:A7:14:ASN:O	13:E7:201:CYC:HMA2	1.70	0.90
2:B7:34:ARG:HH22	13:K7:202:CYC:HAC2	1.36	0.90
8:o8:88:TYR:CZ	13:o8:1001:CYC:HBB3	2.06	0.90
7:A9:81:CYS:SG	13:A9:1001:CYC:NC	2.44	0.90
7:T9:81:CYS:SG	13:T9:1001:CYC:NC	2.44	0.90
4:NA:62:LEU:CD2	4:NA:72:PHE:CG	2.43	0.90
13:Q1:202:CYC:HMD1	3:R1:152:GLY:CA	2.01	0.90
5:A2:250:ARG:CA	8:I8:63:TYR:O	2.18	0.90
3:K2:83:CYS:HB3	13:K2:201:CYC:C2B	2.01	0.90
3:Z2:44:ARG:HH12	3:Z2:145:ASP:HB2	1.34	0.90
6:A3:64:ARG:HG2	6:A3:64:ARG:HH21	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D3:34:ARG:HH12	2:D3:146:GLN:HE21	0.91	0.90
3:K4:110:CYS:HA	13:K4:201:CYC:CBC	2.00	0.90
3:K6:68:ILE:HD12	13:L6:201:CYC:O1A	1.70	0.90
13:q8:1001:CYC:O2A	10:19:1059:ASN:ND2	2.05	0.90
3:TA:121:LEU:HD23	13:TA:201:CYC:O1A	1.72	0.90
3:K1:110:CYS:HA	13:K1:201:CYC:CBC	2.01	0.90
3:P2:83:CYS:SG	13:P2:201:CYC:HAC2	2.11	0.90
3:I3:87:MET:HE2	13:I3:201:CYC:CBC	1.67	0.90
1:A4:172:LEU:HD21	3:G4:113:GLY:HA3	1.51	0.90
5:A5:241:ILE:CG2	7:A9:82:LEU:CD1	2.49	0.90
13:A5:301:CYC:CBC	3:C5:87:MET:CE	2.39	0.90
3:P6:43:ASN:ND2	13:W6:201:CYC:HBC1	1.84	0.90
8:m8:116:THR:HG1	10:09:1103:LEU:HD23	1.34	0.90
2:O2:29:ARG:CD	13:W2:201:CYC:OC	2.20	0.90
3:C3:44:ARG:NH1	3:C3:145:ASP:O	2.03	0.90
2:H3:119:ILE:CD1	13:H3:1001:CYC:HMA1	2.00	0.90
2:F5:62:GLN:HE22	3:G7:71:GLY:HA3	1.21	0.90
2:H5:34:ARG:NH1	2:H5:150:GLU:HB2	1.87	0.90
9:i8:31:LEU:HB2	10:09:1008:ILE:HG22	1.51	0.90
7:p8:9:VAL:HG21	10:19:1024:ARG:HH22	1.35	0.90
3:CA:154:CYS:SG	13:CA:201:CYC:H2C	2.12	0.90
2:QA:34:ARG:NH1	2:QA:34:ARG:HA	1.87	0.90
2:B2:73:PRO:HB2	3:G2:58:ARG:HH22	1.22	0.90
2:H2:73:PRO:HB2	3:M2:58:ARG:CZ	2.01	0.90
3:K4:68:ILE:HD12	13:L4:201:CYC:O1A	1.70	0.90
2:H6:31:ARG:CD	2:H6:35:ALA:HB2	2.01	0.90
7:P9:81:CYS:SG	13:P9:1001:CYC:NC	2.44	0.90
7:d9:81:CYS:SG	13:d9:1001:CYC:NC	2.44	0.90
3:PA:83:CYS:SG	13:PA:201:CYC:HAC2	2.12	0.90
3:K1:68:ILE:HD13	13:L1:201:CYC:CGA	2.01	0.90
2:U2:85:CYS:SG	13:U2:202:CYC:HAC2	2.11	0.90
3:G4:82:ALA:HB3	13:G4:202:CYC:C2D	2.01	0.90
3:K4:83:CYS:CB	13:K4:201:CYC:CMB	2.46	0.90
13:A5:301:CYC:HBC1	3:C5:87:MET:HE3	0.91	0.90
3:C5:154:CYS:SG	13:C5:201:CYC:H2C	2.11	0.90
2:H6:73:PRO:HB2	3:M6:58:ARG:CZ	2.01	0.90
3:K6:83:CYS:HB3	13:K6:201:CYC:C2B	2.01	0.90
3:K6:110:CYS:HA	13:K6:201:CYC:HBC1	1.51	0.90
2:W6:29:ARG:NH1	13:X6:202:CYC:HMD2	1.86	0.90
8:B8:109:VAL:HG12	13:B8:1001:CYC:HAB1	1.50	0.90
7:O8:14:GLU:HG3	10:09:791:ASN:HD21	1.35	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a8:82:CYS:HG	13:b8:1001:CYC:HAC2	1.11	0.90
8:f8:82:CYS:HG	13:f8:1001:CYC:HAC2	1.13	0.90
8:k8:108:ARG:NH2	10:09:1029:THR:O	2.05	0.90
8:k8:108:ARG:NH1	10:09:1029:THR:HA	1.86	0.90
9:49:14:LEU:CD2	8:D9:77:ARG:CD	2.49	0.90
2:FA:34:ARG:HH21	13:MA:1003:CYC:HAC2	1.31	0.90
3:ZA:44:ARG:HG3	3:ZA:142:ILE:HG22	1.53	0.90
4:N2:10:LEU:CD2	4:N2:169:PHE:CE1	2.54	0.90
6:A3:71:GLN:OE1	6:A3:77:ILE:CD1	2.14	0.90
2:B4:86:ALA:HB3	8:W8:26:GLU:CG	2.02	0.90
3:C4:18:GLU:OE1	7:V8:47:ARG:NH2	2.03	0.90
3:G4:154:CYS:SG	13:G4:201:CYC:H2C	2.11	0.90
5:A5:228:ASN:C	7:q9:66:VAL:HG11	1.96	0.90
2:F7:20:LEU:HD23	2:F7:24:GLU:OE2	1.72	0.90
8:o8:109:VAL:HG12	13:o8:1001:CYC:CAB	2.02	0.90
13:AA:303:CYC:HAC2	3:GA:83:CYS:HA	1.39	0.90
3:P2:43:ASN:ND2	13:W2:201:CYC:HBC1	1.84	0.89
3:G3:44:ARG:CZ	3:G3:145:ASP:HB2	2.01	0.89
3:I4:128:VAL:HG22	13:I4:201:CYC:CMC	2.02	0.89
13:Q4:202:CYC:HMD1	3:R4:152:GLY:CA	2.01	0.89
3:P5:83:CYS:SG	13:P5:201:CYC:HAC2	2.12	0.89
2:D7:119:ILE:HD11	13:D7:1001:CYC:HMA1	1.53	0.89
8:q8:84:ARG:HH12	10:19:1059:ASN:HD21	1.15	0.89
8:u8:82:CYS:HG	13:19:1201:CYC:HAC2	1.17	0.89
2:F3:20:LEU:HD23	2:F3:24:GLU:OE2	1.72	0.89
3:K4:126:SER:HB2	3:T4:12:GLN:CD	1.96	0.89
7:Q8:125:ALA:HB3	13:Q8:1001:CYC:HMC2	1.55	0.89
7:Z8:125:ALA:HB3	13:Z8:1001:CYC:HMC2	1.54	0.89
8:f8:88:TYR:OH	9:i8:21:ARG:HA	1.70	0.89
10:19:954:ARG:NH2	10:19:955:LYS:HB2	1.88	0.89
2:HA:34:ARG:NH1	2:HA:150:GLU:HB2	1.87	0.89
1:A1:172:LEU:HD21	3:G1:113:GLY:HA3	1.51	0.89
2:S1:29:ARG:NH2	13:T1:201:CYC:OB	2.03	0.89
3:T1:40:ASP:OD2	13:T1:201:CYC:NA	2.06	0.89
4:N2:10:LEU:HD22	4:N2:169:PHE:HE1	1.34	0.89
6:A3:158:VAL:CG1	6:A3:159:PRO:HD2	2.02	0.89
2:B3:34:ARG:HH22	13:K3:202:CYC:HAC2	1.36	0.89
3:E3:44:ARG:HH21	3:E3:149:ILE:HD12	1.28	0.89
13:A5:304:CYC:HBC1	3:K5:114:LEU:HD22	1.55	0.89
3:G6:44:ARG:CZ	3:G6:145:ASP:HB2	2.01	0.89
2:O6:29:ARG:CD	13:W6:201:CYC:OC	2.20	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N1:156:THR:N	4:N1:157:GLN:OE1	2.06	0.89
3:C2:154:CYS:HB2	13:C2:202:CYC:HAC2	1.54	0.89
3:R2:38:ARG:HH22	3:R2:101:GLY:HA2	1.36	0.89
3:K4:121:LEU:HG	13:K4:201:CYC:O2D	1.70	0.89
3:I5:138:ALA:O	3:I5:142:ILE:HG12	1.73	0.89
6:A7:158:VAL:CG1	6:A7:159:PRO:HD2	2.02	0.89
7:L8:25:ARG:CD	7:Z9:25:ARG:CZ	2.50	0.89
7:V8:125:ALA:HB3	13:V8:1001:CYC:HMC2	1.55	0.89
9:b8:24:GLN:HE22	10:19:963:THR:C	1.79	0.89
7:G9:83:ARG:CZ	13:G9:1001:CYC:O2A	2.21	0.89
7:K9:83:ARG:CZ	13:K9:1001:CYC:O2A	2.21	0.89
1:A1:195:ILE:HG21	7:c8:80:THR:HG23	0.90	0.89
3:G2:34:GLU:CD	3:G2:157:LEU:HD21	1.97	0.89
4:N5:62:LEU:CD2	4:N5:72:PHE:HD1	1.44	0.89
7:E8:125:ALA:HB3	13:E8:1001:CYC:HMC2	1.55	0.89
7:n8:125:ALA:HB3	13:n8:1001:CYC:HMC2	1.55	0.89
4:N1:23:LEU:HB3	4:N1:146:ASN:HB2	1.55	0.89
2:D2:119:ILE:HD11	13:D2:1001:CYC:HMA1	1.53	0.89
1:A4:209:THR:CG2	7:V8:67:SER:HA	2.01	0.89
2:Q6:91:HIS:HB3	13:Q6:201:CYC:CAB	2.00	0.89
7:T9:83:ARG:CZ	13:T9:1001:CYC:O2A	2.21	0.89
13:AA:301:CYC:HBC1	3:CA:87:MET:HE3	0.91	0.89
1:A1:56:GLU:O	1:A1:59:ILE:HG13	1.73	0.89
3:M1:26:ASP:CG	2:J3:51:ARG:NH1	2.29	0.89
2:D2:34:ARG:NH1	2:D2:146:GLN:NE2	2.14	0.89
1:A4:209:THR:HG21	7:V8:67:SER:N	1.87	0.89
5:A5:239:PHE:CE2	7:A9:52:LYS:HB3	2.08	0.89
3:G6:34:GLU:CD	3:G6:157:LEU:HD21	1.97	0.89
7:p8:125:ALA:HB3	13:p8:1001:CYC:HMC2	1.55	0.89
7:r8:125:ALA:HB3	13:r8:1001:CYC:HMC2	1.55	0.89
7:C9:81:CYS:SG	13:C9:1001:CYC:NC	2.44	0.89
3:GA:39:LEU:HD21	13:GA:1002:CYC:HBB2	1.55	0.89
1:A1:191:ILE:HG21	8:h8:68:ARG:CZ	2.02	0.89
3:G1:154:CYS:SG	13:G1:201:CYC:H2C	2.11	0.89
3:V1:36:ASN:ND2	13:V1:201:CYC:C2D	2.35	0.89
3:T5:121:LEU:HD23	13:T5:201:CYC:O1A	1.72	0.89
5:A6:234:GLN:NE2	7:C8:73:TYR:CD1	2.40	0.89
2:B6:34:ARG:HH22	13:K6:202:CYC:HAC2	1.36	0.89
2:B6:34:ARG:CZ	13:K6:202:CYC:H2C	2.03	0.89
2:Q6:91:HIS:CD2	13:Q6:201:CYC:HBB3	2.08	0.89
3:I7:38:ARG:HH22	3:I7:101:GLY:HA2	1.38	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:R8:82:CYS:HG	13:R8:1001:CYC:HAC2	1.05	0.89
7:e8:125:ALA:HB3	13:e8:1001:CYC:HMC2	1.55	0.89
8:o8:115:GLU:HB3	10:09:1114:LYS:HZ2	1.18	0.89
7:p8:15:ALA:HB2	10:19:1065:ASN:C	1.98	0.89
7:p8:106:GLU:CD	10:19:1118:SER:CB	2.44	0.89
3:GA:154:CYS:HG	13:GA:1002:CYC:H2C	1.34	0.89
3:V1:36:ASN:HD21	13:V1:201:CYC:C3D	1.83	0.89
2:F2:20:LEU:HD23	2:F2:24:GLU:OE2	1.72	0.89
6:A7:67:PHE:O	6:A7:71:GLN:HG2	1.73	0.89
6:A7:97:ALA:HA	6:A7:105:LEU:HD11	1.55	0.89
2:D7:34:ARG:NH1	2:D7:146:GLN:NE2	2.14	0.89
7:S8:25:ARG:HD2	7:w9:25:ARG:NH1	1.88	0.89
8:Y8:82:CYS:HG	13:Y8:1001:CYC:HAC2	1.07	0.89
13:AA:304:CYC:CMC	3:KA:89:ILE:HG12	2.03	0.89
5:A2:230:GLY:N	7:X9:66:VAL:CG1	2.35	0.89
3:I2:87:MET:HE1	13:I2:201:CYC:HBC3	1.50	0.89
6:A3:65:GLN:OE1	6:A3:67:PHE:CZ	2.26	0.89
1:A4:46:ILE:CD1	1:A4:72:LEU:HD12	2.02	0.89
4:N4:63:ARG:CG	13:V4:202:CYC:CGD	2.51	0.89
3:G7:34:GLU:CD	3:G7:157:LEU:HD21	1.97	0.89
7:C8:125:ALA:HB3	13:C8:1001:CYC:HMC2	1.55	0.89
7:O8:125:ALA:HB3	13:O8:1001:CYC:HMC2	1.55	0.89
8:k8:108:ARG:HH22	10:09:1029:THR:HB	1.35	0.89
3:PA:154:CYS:SG	13:PA:202:CYC:C2B	2.61	0.89
3:ZA:44:ARG:CG	3:ZA:142:ILE:HG22	2.03	0.89
1:A1:46:ILE:CD1	1:A1:72:LEU:HD12	2.02	0.88
5:A2:246:ALA:HB1	7:J8:79:ALA:HB2	1.52	0.88
2:Y2:31:ARG:HH21	2:Y2:35:ALA:CA	1.79	0.88
2:B3:34:ARG:CZ	13:K3:202:CYC:H2C	2.03	0.88
13:A5:304:CYC:CMC	3:K5:89:ILE:HG12	2.03	0.88
3:Z5:39:LEU:HD23	13:Z5:202:CYC:CMC	2.03	0.88
7:j8:106:GLU:OE1	10:09:1118:SER:HB2	1.73	0.88
2:HA:34:ARG:HH11	2:HA:150:GLU:HB2	1.38	0.88
2:OA:6:ILE:HG13	2:OA:31:ARG:CD	2.03	0.88
3:RA:36:ASN:HD21	13:RA:201:CYC:HAA2	1.36	0.88
2:D2:34:ARG:HH12	2:D2:146:GLN:HE21	0.91	0.88
2:Q2:88:ASP:OD1	13:Q2:201:CYC:HHB	1.73	0.88
3:K4:68:ILE:CD1	13:L4:201:CYC:CGA	2.51	0.88
3:R6:38:ARG:HH22	3:R6:101:GLY:HA2	1.37	0.88
6:A7:65:GLN:OE1	6:A7:67:PHE:CZ	2.26	0.88
10:19:954:ARG:HH22	10:19:955:LYS:HB2	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:49:23:LEU:CD2	13:D9:1001:CYC:OB	2.21	0.88
7:A9:83:ARG:CZ	13:A9:1001:CYC:O2A	2.21	0.88
7:s9:83:ARG:CZ	13:s9:1001:CYC:O2A	2.21	0.88
7:w9:66:VAL:CG1	5:AA:229:GLN:C	2.45	0.88
5:AA:61:ILE:HD11	3:GA:85:ARG:CZ	2.04	0.88
4:N1:63:ARG:CG	13:V1:202:CYC:CGD	2.51	0.88
3:V1:36:ASN:HD21	13:V1:201:CYC:C2D	1.87	0.88
3:I2:38:ARG:HH22	3:I2:101:GLY:HA2	1.38	0.88
1:A4:56:GLU:O	1:A4:59:ILE:HG13	1.73	0.88
5:A5:234:GLN:CB	7:A9:66:VAL:CG1	2.52	0.88
2:B7:34:ARG:CZ	13:K7:202:CYC:H2C	2.03	0.88
7:X9:83:ARG:CZ	13:X9:1001:CYC:O2A	2.21	0.88
3:I1:128:VAL:HG22	13:I1:201:CYC:CMC	2.02	0.88
2:J2:29:ARG:HB2	13:K2:202:CYC:OC	1.74	0.88
3:V4:36:ASN:HD21	13:V4:201:CYC:C3D	1.83	0.88
2:F5:34:ARG:HH21	13:M5:1003:CYC:HAC2	1.31	0.88
10:19:986:PHE:CZ	13:19:1201:CYC:CGA	2.54	0.88
7:I9:83:ARG:CZ	13:I9:1001:CYC:O2A	2.21	0.88
7:q9:83:ARG:CZ	13:q9:1001:CYC:O2A	2.21	0.88
1:A1:207:ILE:HG21	7:c8:66:VAL:CG1	2.04	0.88
2:U1:29:ARG:HD3	13:V1:201:CYC:OC	1.74	0.88
2:B2:34:ARG:CZ	13:K2:202:CYC:H2C	2.03	0.88
2:Q2:74:GLN:HE21	2:Q2:75:PHE:HE2	1.21	0.88
2:B4:119:ILE:HD11	13:B4:1001:CYC:HMA1	1.54	0.88
2:F4:119:ILE:HD11	13:F4:1001:CYC:HAA1	1.53	0.88
3:I4:76:THR:HG22	3:I4:79:ARG:HD2	1.55	0.88
4:N4:156:THR:N	4:N4:157:GLN:OE1	2.06	0.88
2:U4:29:ARG:HD3	13:V4:201:CYC:OC	1.74	0.88
3:R6:154:CYS:SG	13:U6:201:CYC:C4C	2.61	0.88
7:A8:125:ALA:HB3	13:A8:1001:CYC:HMC2	1.55	0.88
8:Y9:156:TYR:OH	8:h9:114:LYS:NZ	2.06	0.88
7:w9:83:ARG:CZ	13:w9:1001:CYC:O2A	2.21	0.88
13:AA:304:CYC:HBC1	3:KA:114:LEU:HD22	1.55	0.88
2:DA:29:ARG:NE	13:EA:201:CYC:OB	2.06	0.88
2:QA:31:ARG:HH11	2:QA:103:GLY:HA3	0.97	0.88
3:ZA:39:LEU:HD23	13:ZA:202:CYC:CMC	2.03	0.88
2:Q2:91:HIS:CD2	13:Q2:201:CYC:HBB3	2.08	0.88
6:A3:102:ASN:HD21	3:C3:109:ARG:HB3	1.39	0.88
3:I3:38:ARG:HH22	3:I3:101:GLY:HA2	1.38	0.88
3:P5:154:CYS:SG	13:P5:202:CYC:C2B	2.61	0.88
3:Z6:87:MET:HE1	13:Z6:202:CYC:HBC2	1.52	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:88:LYS:HZ1	6:A7:141:ASP:CG	1.76	0.88
7:c8:125:ALA:HB3	13:c8:1001:CYC:HMC2	1.55	0.88
8:o8:77:ARG:CZ	13:o8:1001:CYC:O1D	2.21	0.88
8:s8:78:ARG:HH12	10:19:947:VAL:HB	1.39	0.88
8:s8:144:ALA:HB1	8:O9:29:LYS:HZ3	1.39	0.88
7:o9:83:ARG:CZ	13:o9:1001:CYC:O2A	2.21	0.88
3:P1:40:ASP:OD2	13:P1:202:CYC:HHB	1.74	0.88
2:S1:85:CYS:HA	13:S1:1001:CYC:HAC2	1.54	0.88
2:Q5:34:ARG:HH11	2:Q5:34:ARG:HG2	1.38	0.88
3:R5:36:ASN:HD21	13:R5:201:CYC:HAA2	1.36	0.88
3:Z5:44:ARG:CG	3:Z5:142:ILE:HG22	2.02	0.88
4:N6:10:LEU:HD22	4:N6:169:PHE:HE1	1.34	0.88
9:U8:43:ARG:CD	10:09:851:ASN:HD21	1.69	0.88
7:g8:125:ALA:HB3	13:g8:1001:CYC:HMC2	1.55	0.88
7:f9:83:ARG:CZ	13:f9:1001:CYC:O2A	2.21	0.88
3:K1:83:CYS:CB	13:K1:201:CYC:CMB	2.46	0.88
3:P2:43:ASN:HD22	13:W2:201:CYC:CBC	1.83	0.88
3:R2:154:CYS:SG	13:U2:201:CYC:C4C	2.61	0.88
2:D3:34:ARG:NH1	2:D3:146:GLN:NE2	2.15	0.88
5:A5:220:ALA:CA	7:q9:79:ALA:HB2	2.03	0.88
3:G5:39:LEU:HD21	13:G5:201:CYC:HBB2	1.55	0.88
2:Q5:34:ARG:NH1	2:Q5:34:ARG:HA	1.87	0.88
6:A7:67:PHE:HE2	2:J7:17:GLY:CA	1.87	0.88
8:D8:82:CYS:HG	13:D8:1001:CYC:HAC2	1.03	0.88
7:k9:83:ARG:CZ	13:k9:1001:CYC:O2A	2.21	0.88
3:IA:138:ALA:O	3:IA:142:ILE:HG12	1.73	0.88
4:N2:104:LEU:O	4:N2:152:ARG:NH2	2.06	0.88
3:T4:40:ASP:OD2	13:T4:201:CYC:NA	2.06	0.88
5:A5:234:GLN:H	7:A9:66:VAL:CG1	1.85	0.88
7:C9:83:ARG:CZ	13:C9:1001:CYC:O2A	2.21	0.88
7:y9:83:ARG:CZ	13:y9:1001:CYC:O2A	2.21	0.88
2:O2:34:ARG:NH2	13:W2:203:CYC:CAC	2.36	0.88
3:R2:87:MET:HE2	13:R2:1001:CYC:HBC1	1.50	0.88
1:A4:46:ILE:HD13	1:A4:72:LEU:CD1	2.04	0.88
1:A4:169:PRO:O	1:A4:173:VAL:HG23	1.74	0.88
2:O5:6:ILE:HG13	2:O5:31:ARG:CD	2.03	0.88
3:I6:38:ARG:HH22	3:I6:101:GLY:HA2	1.38	0.88
3:Z6:44:ARG:HH12	3:Z6:145:ASP:HB2	1.34	0.88
8:B8:77:ARG:CD	10:09:542:GLU:OE1	2.23	0.88
7:S8:125:ALA:HB3	13:S8:1001:CYC:HMC2	1.54	0.88
7:l8:125:ALA:HB3	13:l8:1001:CYC:HMC2	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E9:83:ARG:CZ	13:E9:1001:CYC:O2A	2.21	0.88
2:O2:119:ILE:CD1	13:O2:1001:CYC:HMA3	2.03	0.87
13:T2:201:CYC:HAB2	2:Y2:34:ARG:CZ	2.04	0.87
13:T6:201:CYC:HAB2	2:Y6:34:ARG:CZ	2.04	0.87
7:J8:120:GLY:HA2	7:X9:124:GLU:OE2	1.73	0.87
7:P9:83:ARG:CZ	13:P9:1001:CYC:O2A	2.21	0.87
7:R9:83:ARG:CZ	13:R9:1001:CYC:O2A	2.21	0.87
4:NA:62:LEU:CD1	4:NA:72:PHE:HB2	2.04	0.87
3:P1:89:ILE:HG21	13:P1:201:CYC:CBB	2.01	0.87
2:D2:5:PRO:HG2	2:H2:26:GLN:OE1	1.74	0.87
2:J3:29:ARG:HB2	13:K3:202:CYC:OC	1.74	0.87
3:G4:154:CYS:SG	13:G4:201:CYC:HMC1	2.15	0.87
3:V4:36:ASN:ND2	13:V4:201:CYC:C2D	2.36	0.87
5:A5:72:SER:O	13:A5:304:CYC:HBD2	1.73	0.87
5:A5:205:LYS:CD	8:z9:63:TYR:CB	2.45	0.87
5:A5:231:ASN:HD22	7:q9:63:PRO:HG2	1.38	0.87
13:A5:301:CYC:OC	3:C5:74:ALA:HB2	1.74	0.87
2:D5:29:ARG:NE	13:E5:201:CYC:OB	2.06	0.87
3:P6:34:GLU:OE1	3:P6:157:LEU:HD21	1.73	0.87
7:L8:125:ALA:HB3	13:L8:1001:CYC:HMC2	1.55	0.87
7:t8:125:ALA:HB3	13:t8:1001:CYC:HMC2	1.55	0.87
3:EA:154:CYS:HB3	13:EA:201:CYC:HAC2	1.51	0.87
2:B1:86:ALA:HB2	8:d8:26:GLU:CG	2.00	0.87
2:U1:129:TRP:CE3	13:U1:1001:CYC:HMC3	2.10	0.87
2:D2:24:GLU:OE2	2:D2:24:GLU:N	2.08	0.87
2:U4:129:TRP:CE3	13:U4:1001:CYC:HMC3	2.09	0.87
3:G6:12:GLN:OE1	8:a8:148:LYS:HE3	1.74	0.87
2:Q6:88:ASP:OD1	13:Q6:201:CYC:HHB	1.74	0.87
6:A7:116:ARG:HH21	6:A7:116:ARG:HB2	1.38	0.87
3:E7:44:ARG:HH21	3:E7:149:ILE:HD12	1.28	0.87
8:m8:70:GLY:CA	10:09:942:GLY:HA3	2.04	0.87
7:N9:83:ARG:CZ	13:N9:1001:CYC:O2A	2.21	0.87
2:QA:34:ARG:HH11	2:QA:34:ARG:HG2	1.38	0.87
6:A3:80:ARG:CG	6:A3:144:LEU:HD21	2.05	0.87
6:A3:97:ALA:HA	6:A3:105:LEU:HD11	1.55	0.87
1:A4:194:ASP:C	7:V8:83:ARG:HD3	1.98	0.87
1:A4:212:PHE:HD1	7:r8:66:VAL:O	1.56	0.87
3:X5:93:TYR:HE2	13:X5:201:CYC:HBB1	1.05	0.87
2:F7:22:ASN:O	2:F7:26:GLN:HG3	1.75	0.87
8:D8:3:GLN:NE2	10:09:528:ILE:HD11	1.89	0.87
8:f8:109:VAL:HG12	13:f8:1001:CYC:HAB2	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:u9:83:ARG:CZ	13:u9:1001:CYC:O2A	2.21	0.87
3:I2:44:ARG:NH1	3:I2:145:ASP:O	2.07	0.87
2:F3:22:ASN:O	2:F3:26:GLN:HG3	1.75	0.87
3:P4:40:ASP:OD2	13:P4:202:CYC:HHB	1.74	0.87
7:J8:125:ALA:HB3	13:J8:1001:CYC:HMC2	1.55	0.87
8:o8:115:GLU:HB3	10:09:1114:LYS:HZ3	1.40	0.87
4:NA:232:GLU:OE1	4:NA:232:GLU:N	2.08	0.87
3:XA:93:TYR:HE2	13:XA:201:CYC:HBB1	1.05	0.87
3:I3:44:ARG:NH1	3:I3:145:ASP:O	2.07	0.87
3:Z4:150:THR:OG1	13:Z4:201:CYC:HAA2	1.75	0.87
3:C6:154:CYS:HB2	13:C6:202:CYC:CAC	2.05	0.87
4:N6:104:LEU:O	4:N6:152:ARG:NH2	2.06	0.87
3:C7:154:CYS:HB2	13:C7:201:CYC:CAC	2.05	0.87
2:J7:29:ARG:HB2	13:K7:202:CYC:OC	1.74	0.87
8:P8:109:VAL:HG12	13:P8:1001:CYC:HAB2	1.57	0.87
7:j8:9:VAL:CG2	10:09:1029:THR:HG21	2.04	0.87
8:o8:88:TYR:CE1	8:o8:109:VAL:CG1	2.55	0.87
7:b9:83:ARG:CZ	13:b9:1001:CYC:O2A	2.21	0.87
13:AA:304:CYC:CAC	3:KA:114:LEU:HD13	2.05	0.87
2:FA:32:TYR:CE1	3:GA:35:GLY:CA	2.55	0.87
3:K1:68:ILE:CD1	13:L1:201:CYC:CGA	2.51	0.87
3:C2:154:CYS:HB2	13:C2:202:CYC:CAC	2.05	0.87
3:C2:157:LEU:O	3:C2:161:VAL:HG23	1.75	0.87
3:C3:58:ARG:HH22	2:D3:73:PRO:HB2	1.40	0.87
3:C3:154:CYS:HB2	13:C3:201:CYC:HAC2	1.54	0.87
2:B5:35:ALA:HB1	3:C5:32:VAL:HG11	1.56	0.87
3:C5:68:ILE:CD1	13:D5:1001:CYC:O2A	2.23	0.87
3:M5:121:LEU:HD23	13:M5:1002:CYC:HBD1	1.55	0.87
5:A6:222:LEU:HD22	7:I9:82:LEU:HD13	1.57	0.87
13:P8:1001:CYC:HMA2	10:09:771:SER:HB3	1.56	0.87
8:a8:109:VAL:HG12	13:b8:1001:CYC:HAB2	1.57	0.87
7:e8:106:GLU:OE2	10:09:969:ALA:HB3	1.74	0.87
9:i8:24:GLN:HB2	10:09:1087:ASP:OD1	1.73	0.87
7:j8:125:ALA:HB3	13:j8:1001:CYC:HMC2	1.55	0.87
8:U9:84:ARG:HH11	8:U9:84:ARG:HG2	1.40	0.87
13:AA:301:CYC:OC	3:CA:74:ALA:HB2	1.74	0.87
3:CA:68:ILE:CD1	13:DA:1001:CYC:O2A	2.23	0.87
1:A1:212:PHE:HD1	7:l8:66:VAL:CB	1.87	0.87
5:A2:229:GLN:C	7:X9:66:VAL:HG11	2.00	0.87
3:I2:115:ARG:HH21	4:N2:9:ARG:HD2	1.32	0.87
3:C3:157:LEU:O	3:C3:161:VAL:HG23	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:195:ILE:HD11	8:a8:63:TYR:CE1	2.04	0.87
3:P4:127:SER:HB2	13:P4:201:CYC:HMC3	1.56	0.87
3:V5:86:ASP:OD1	13:V5:201:CYC:HHD	1.75	0.87
2:Q6:91:HIS:ND1	13:Q6:201:CYC:HBB3	1.89	0.87
2:S6:119:ILE:CD1	13:S6:1001:CYC:HMA1	2.05	0.87
2:D7:5:PRO:HG2	2:H7:26:GLN:OE1	1.75	0.87
3:I7:44:ARG:NH1	3:I7:145:ASP:O	2.07	0.87
5:AA:72:SER:O	13:AA:304:CYC:HBD2	1.73	0.87
2:BA:35:ALA:HB1	3:CA:32:VAL:HG11	1.56	0.87
3:TA:89:ILE:HG12	13:TA:201:CYC:CMC	2.03	0.87
2:B1:119:ILE:HD11	13:B1:1001:CYC:HMA1	1.54	0.87
2:F2:22:ASN:O	2:F2:26:GLN:HG3	1.75	0.87
2:O2:34:ARG:HH22	13:W2:203:CYC:HAC2	1.39	0.87
3:G4:82:ALA:CB	13:G4:202:CYC:C2D	2.53	0.87
4:N5:62:LEU:CD1	4:N5:72:PHE:HB2	2.04	0.87
13:U5:1001:CYC:CGA	3:Z5:68:ILE:CD1	2.46	0.87
3:K6:83:CYS:HB3	13:K6:201:CYC:C1B	2.05	0.87
13:B8:1001:CYC:CMA	10:09:572:ILE:CG2	2.52	0.87
8:D8:109:VAL:HG12	13:D8:1001:CYC:HAB2	1.57	0.87
7:H8:125:ALA:HB3	13:H8:1001:CYC:HMC2	1.55	0.87
8:m8:109:VAL:HG12	13:09:1201:CYC:HAB2	1.57	0.87
8:s8:109:VAL:HG12	13:s8:1001:CYC:HAB2	1.57	0.87
3:RA:154:CYS:SG	13:RA:201:CYC:C4C	2.63	0.87
13:UA:1001:CYC:CGA	3:ZA:68:ILE:CD1	2.46	0.87
3:I1:76:THR:HG22	3:I1:79:ARG:HD2	1.55	0.86
3:P1:77:ASN:ND2	2:Q1:116:LEU:CA	2.32	0.86
3:Z1:150:THR:OG1	13:Z1:201:CYC:HAA2	1.75	0.86
6:A3:116:ARG:HB2	6:A3:116:ARG:HH21	1.38	0.86
2:J3:123:PHE:CD2	13:J3:1001:CYC:HAA2	2.10	0.86
3:K3:83:CYS:HB3	13:K3:201:CYC:C2B	2.01	0.86
3:V4:36:ASN:HD21	13:V4:201:CYC:C2D	1.87	0.86
3:V6:127:SER:HB3	13:V6:202:CYC:HBB1	1.56	0.86
3:C7:157:LEU:O	3:C7:161:VAL:HG23	1.75	0.86
3:VA:86:ASP:OD1	13:VA:201:CYC:HHD	1.75	0.86
2:F1:85:CYS:HA	13:F1:1001:CYC:HAC2	1.56	0.86
3:G1:82:ALA:CB	13:G1:202:CYC:C2D	2.53	0.86
2:J2:123:PHE:CD2	13:J2:1001:CYC:HAA2	2.10	0.86
3:X2:83:CYS:CB	13:X2:201:CYC:CAC	2.50	0.86
6:A3:90:GLU:HG3	2:J3:16:GLN:HE21	1.38	0.86
2:D3:24:GLU:OE2	2:D3:24:GLU:N	2.08	0.86
1:A4:207:ILE:HG12	7:V8:59:PHE:HB3	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:61:ILE:HD11	3:G5:85:ARG:CZ	2.04	0.86
13:R5:201:CYC:HAB1	2:U5:34:ARG:HH11	1.40	0.86
3:T5:89:ILE:HG12	13:T5:201:CYC:CMC	2.04	0.86
3:X1:144:ASN:O	13:X1:202:CYC:HBB1	1.75	0.86
6:A3:114:LEU:O	6:A3:153:PHE:HZ	1.58	0.86
2:D3:5:PRO:HG2	2:H3:26:GLN:OE1	1.75	0.86
1:A4:209:THR:CG2	7:V8:67:SER:CA	2.54	0.86
5:A5:222:LEU:HD21	7:q9:52:LYS:HA	1.57	0.86
2:F5:32:TYR:CE1	3:G5:35:GLY:CA	2.55	0.86
2:H5:34:ARG:HH11	2:H5:150:GLU:HB2	1.39	0.86
2:B6:50:GLN:HG2	7:T9:57:GLN:NE2	1.87	0.86
2:J6:29:ARG:HB2	13:K6:202:CYC:OC	1.74	0.86
2:L6:29:ARG:NH1	13:M6:201:CYC:CMD	2.39	0.86
2:O6:119:ILE:CD1	13:O6:1001:CYC:HMA3	2.04	0.86
7:C8:9:VAL:CG1	10:09:540:PHE:CE1	2.57	0.86
7:C8:9:VAL:CG1	10:09:540:PHE:CZ	2.58	0.86
13:s8:1001:CYC:O2D	10:19:948:GLY:HA3	1.75	0.86
7:k9:65:VAL:CG1	13:k9:1001:CYC:OC	2.24	0.86
3:M1:76:THR:CG2	3:M1:79:ARG:HG3	2.06	0.86
3:K2:68:ILE:CD1	13:L2:201:CYC:O1A	2.24	0.86
3:K2:83:CYS:HB3	13:K2:201:CYC:C1B	2.05	0.86
2:L2:29:ARG:NH1	13:M2:201:CYC:CMD	2.38	0.86
3:K3:83:CYS:HB3	13:K3:201:CYC:C1B	2.05	0.86
3:P6:83:CYS:HB2	13:P6:201:CYC:HAC2	0.86	0.86
3:X6:83:CYS:HB2	13:X6:201:CYC:HAC2	0.88	0.86
7:O8:64:ASP:OD1	7:w9:70:GLY:N	2.08	0.86
8:Y8:109:VAL:HG12	13:Y8:1001:CYC:HAB2	1.57	0.86
3:I1:128:VAL:CG2	13:I1:201:CYC:HMC3	2.05	0.86
5:A2:73:GLN:HE22	4:N2:227:GLY:HA3	1.37	0.86
2:S2:119:ILE:CD1	13:S2:1001:CYC:HMA1	2.05	0.86
2:W2:29:ARG:CB	13:W2:203:CYC:OC	2.22	0.86
3:G3:34:GLU:CD	3:G3:157:LEU:HD21	1.97	0.86
3:K4:152:GLY:HA3	13:K4:202:CYC:HMA3	1.57	0.86
4:N5:21:VAL:HG11	4:N5:35:VAL:HG22	1.55	0.86
4:N5:232:GLU:OE1	4:N5:232:GLU:N	2.08	0.86
3:I6:44:ARG:NH1	3:I6:145:ASP:O	2.07	0.86
3:R6:154:CYS:CB	13:U6:201:CYC:H2C	2.06	0.86
2:U6:73:PRO:HB2	3:Z6:58:ARG:NH1	1.90	0.86
6:A7:80:ARG:CG	6:A7:144:LEU:HD21	2.05	0.86
7:A8:20:PRO:CB	7:I9:151:SER:HG	1.86	0.86
7:Z9:65:VAL:CG1	13:Z9:1001:CYC:OC	2.24	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G1:154:CYS:SG	13:G1:201:CYC:HMC1	2.15	0.86
3:K2:40:ASP:OD2	3:K2:149:ILE:HD13	1.75	0.86
2:W2:34:ARG:HD2	2:W2:150:GLU:OE1	1.76	0.86
3:X2:38:ARG:HH22	3:X2:101:GLY:CA	1.88	0.86
6:A3:67:PHE:HE2	2:J3:17:GLY:CA	1.87	0.86
3:K3:40:ASP:OD2	3:K3:149:ILE:HD13	1.75	0.86
5:A5:42:THR:HG1	2:L5:2:VAL:N	1.72	0.86
4:N5:162:THR:CG2	13:T5:201:CYC:HAC2	2.05	0.86
3:R5:152:GLY:HA3	13:R5:201:CYC:HMD1	1.58	0.86
2:H7:31:ARG:HD3	2:H7:35:ALA:HB2	1.55	0.86
7:X8:125:ALA:HB3	13:X8:1001:CYC:HMC2	1.55	0.86
8:h8:109:VAL:HG12	13:h8:1001:CYC:HAB2	1.57	0.86
7:d9:65:VAL:CG1	13:d9:1001:CYC:OC	2.24	0.86
7:o9:65:VAL:CG1	13:o9:1001:CYC:OC	2.24	0.86
3:CA:68:ILE:HD11	13:DA:1001:CYC:O1A	1.75	0.86
1:A1:46:ILE:HD13	1:A1:72:LEU:CD1	2.04	0.86
2:D1:91:HIS:HB3	13:D1:1001:CYC:CAB	2.05	0.86
3:X2:60:LEU:CD1	3:X2:87:MET:HE1	2.05	0.86
2:Y2:31:ARG:NH2	2:Y2:35:ALA:HB1	1.89	0.86
2:L3:29:ARG:NH1	13:M3:201:CYC:CMD	2.38	0.86
2:B4:53:ILE:CD1	8:W8:22:THR:CG2	2.54	0.86
3:T4:154:CYS:HG	13:T4:201:CYC:H2C	0.99	0.86
13:A5:304:CYC:HAC2	3:K5:114:LEU:HD13	1.56	0.86
2:O6:34:ARG:NH2	13:X6:202:CYC:CAC	2.36	0.86
8:B8:109:VAL:HG12	13:B8:1001:CYC:HAB2	1.57	0.86
8:k8:115:GLU:HG3	7:C9:49:ARG:CZ	2.06	0.86
7:n8:110:ILE:CD1	10:09:954:ARG:HD2	2.05	0.86
8:u8:15:VAL:HG22	10:19:944:SER:HB3	1.57	0.86
10:19:954:ARG:HH22	10:19:955:LYS:CB	1.89	0.86
7:R9:65:VAL:CG1	13:R9:1001:CYC:OC	2.24	0.86
7:u9:65:VAL:CG1	13:u9:1001:CYC:OC	2.24	0.86
5:AA:178:ARG:CZ	13:AA:303:CYC:O2D	2.24	0.86
3:MA:121:LEU:HD23	13:MA:1002:CYC:HBD1	1.56	0.86
4:NA:62:LEU:HD11	4:NA:72:PHE:HB3	1.58	0.86
3:T1:83:CYS:SG	13:T1:202:CYC:C4B	2.64	0.86
3:I4:128:VAL:CG2	13:I4:201:CYC:HMC3	2.05	0.86
5:A5:229:GLN:C	7:q9:66:VAL:HG11	2.01	0.86
3:C6:157:LEU:O	3:C6:161:VAL:HG23	1.75	0.86
2:L6:31:ARG:HH11	2:L6:102:ALA:C	1.84	0.86
2:O6:34:ARG:HH12	13:X6:202:CYC:HBC2	1.39	0.86
2:J7:123:PHE:CD2	13:J7:1001:CYC:HAA2	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S8:25:ARG:CD	7:w9:25:ARG:NH1	2.38	0.86
8:o8:82:CYS:HA	13:o8:1001:CYC:CAC	2.06	0.86
8:o8:115:GLU:HB2	10:09:1114:LYS:HZ1	1.39	0.86
7:G9:65:VAL:CG1	13:G9:1001:CYC:OC	2.24	0.86
7:P9:65:VAL:CG1	13:P9:1001:CYC:OC	2.24	0.86
7:y9:65:VAL:CG1	13:y9:1001:CYC:OC	2.24	0.86
2:U2:73:PRO:HB2	3:Z2:58:ARG:NH1	1.90	0.86
3:X2:58:ARG:HH22	2:Y2:73:PRO:HB2	1.06	0.86
2:B3:123:PHE:CE2	13:B3:1001:CYC:HAA1	2.11	0.86
3:C3:154:CYS:CB	13:C3:201:CYC:CAC	2.54	0.86
3:C3:154:CYS:HB2	13:C3:201:CYC:CAC	2.05	0.86
13:A5:304:CYC:CAC	3:K5:114:LEU:HD13	2.05	0.86
2:F6:22:ASN:O	2:F6:26:GLN:HG3	1.75	0.86
8:M8:109:VAL:HG12	13:M8:1001:CYC:HAB2	1.57	0.86
8:o8:88:TYR:OH	13:o8:1001:CYC:CBB	2.13	0.86
8:o8:92:TYR:CE1	8:o8:108:ARG:HG2	2.11	0.86
8:q8:109:VAL:HG12	13:q8:1001:CYC:HAB2	1.57	0.86
7:E9:65:VAL:CG1	13:E9:1001:CYC:OC	2.24	0.86
7:X9:65:VAL:CG1	13:X9:1001:CYC:OC	2.24	0.86
7:i9:65:VAL:CG1	13:i9:1001:CYC:OC	2.24	0.86
3:C2:154:CYS:CB	13:C2:202:CYC:CAC	2.54	0.86
6:A3:103:TYR:CE1	6:A3:128:SER:OG	2.29	0.86
2:B3:74:GLN:HA	13:B3:1001:CYC:HBD2	1.58	0.86
3:M3:85:ARG:HD3	4:N3:249:TYR:HB2	1.58	0.86
3:G4:79:ARG:O	13:G4:202:CYC:HMD3	1.76	0.86
5:A5:73:GLN:HE22	4:N5:227:GLY:HA3	1.40	0.86
3:E5:152:GLY:CA	13:E5:201:CYC:HMD1	2.06	0.86
4:N5:62:LEU:HD11	4:N5:72:PHE:HB2	1.58	0.86
3:V6:58:ARG:HH22	2:W6:73:PRO:HB2	1.04	0.86
3:C7:154:CYS:HB2	13:C7:201:CYC:HAC2	1.54	0.86
7:C8:9:VAL:HG11	10:09:540:PHE:HZ	1.36	0.86
7:O8:52:LYS:HB3	5:AA:239:PHE:HD2	1.41	0.86
7:O8:68:PRO:CG	5:AA:231:ASN:HD21	1.77	0.86
10:19:732:VAL:HG12	9:49:24:GLN:HE22	1.41	0.86
9:49:14:LEU:HD21	8:D9:77:ARG:CD	2.06	0.86
7:A9:65:VAL:CG1	13:A9:1001:CYC:OC	2.24	0.86
7:K9:65:VAL:CG1	13:K9:1001:CYC:OC	2.24	0.86
13:AA:304:CYC:HAC2	3:KA:114:LEU:HD13	1.56	0.86
3:EA:152:GLY:CA	13:EA:201:CYC:HMD1	2.06	0.86
2:Q1:119:ILE:HD11	13:Q1:201:CYC:HMA1	1.58	0.85
2:B2:50:GLN:CG	7:k9:57:GLN:NE2	2.39	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L2:31:ARG:HH11	2:L2:102:ALA:C	1.84	0.85
2:O2:34:ARG:HH12	13:W2:203:CYC:HBC2	1.39	0.85
3:V2:154:CYS:SG	13:V2:201:CYC:C4B	2.64	0.85
4:N4:23:LEU:HB3	4:N4:146:ASN:HB2	1.55	0.85
2:Q4:119:ILE:HD11	13:Q4:201:CYC:HMA1	1.58	0.85
3:T4:83:CYS:SG	13:T4:202:CYC:C4B	2.64	0.85
3:X6:58:ARG:HH22	2:Y6:73:PRO:HB2	1.07	0.85
3:X6:60:LEU:CD1	3:X6:87:MET:HE1	2.05	0.85
2:D7:24:GLU:OE2	2:D7:24:GLU:N	2.08	0.85
8:k8:111:ASN:HD22	10:09:1032:PRO:CD	1.88	0.85
7:b9:65:VAL:CG1	13:b9:1001:CYC:OC	2.24	0.85
7:f9:65:VAL:CG1	13:f9:1001:CYC:OC	2.24	0.85
7:q9:65:VAL:CG1	13:q9:1001:CYC:OC	2.24	0.85
4:NA:21:VAL:HG11	4:NA:35:VAL:HG22	1.55	0.85
3:PA:93:TYR:CE2	13:PA:201:CYC:HBB1	2.11	0.85
1:A1:209:THR:HB	7:c8:67:SER:OG	1.76	0.85
3:G1:79:ARG:O	13:G1:202:CYC:HMD3	1.76	0.85
3:K1:152:GLY:HA3	13:K1:202:CYC:HMA3	1.57	0.85
2:S2:29:ARG:HH22	13:T2:201:CYC:HB	1.22	0.85
2:L3:31:ARG:HH11	2:L3:102:ALA:C	1.84	0.85
1:A4:168:ARG:HH21	1:A4:172:LEU:CD2	1.88	0.85
5:A5:73:GLN:NE2	4:N5:227:GLY:HA3	1.91	0.85
3:P5:89:ILE:HG13	13:P5:201:CYC:CBB	2.05	0.85
3:P5:93:TYR:HE2	13:P5:201:CYC:HBB1	1.40	0.85
2:J6:123:PHE:CD2	13:J6:1001:CYC:HAA2	2.10	0.85
2:H7:31:ARG:NE	2:H7:35:ALA:CB	2.39	0.85
8:W8:84:ARG:HH12	10:19:1001:SER:HG	1.19	0.85
8:o8:77:ARG:NH1	13:o8:1001:CYC:CGD	2.39	0.85
3:RA:152:GLY:HA3	13:RA:201:CYC:HMD1	1.58	0.85
3:I1:151:LYS:HA	13:I1:202:CYC:OB	1.75	0.85
2:B2:74:GLN:HA	13:B2:1001:CYC:HBD2	1.58	0.85
3:R2:87:MET:CE	13:R2:1001:CYC:CBC	2.27	0.85
6:A3:102:ASN:OD1	3:C3:109:ARG:HG3	1.77	0.85
2:H3:22:ASN:O	2:H3:26:GLN:HG3	1.76	0.85
1:A4:212:PHE:CD1	7:r8:66:VAL:O	2.28	0.85
2:J4:85:CYS:HA	13:J4:1001:CYC:HAC2	1.57	0.85
3:R5:154:CYS:SG	13:R5:201:CYC:C4C	2.63	0.85
2:H6:22:ASN:O	2:H6:26:GLN:HG3	1.76	0.85
6:A7:114:LEU:O	6:A7:153:PHE:HZ	1.58	0.85
3:K7:68:ILE:CD1	13:L7:201:CYC:O1A	2.24	0.85
2:W1:119:ILE:CD1	13:W1:1001:CYC:HMA2	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z1:83:CYS:HG	13:Z1:202:CYC:HAC2	1.04	0.85
2:S2:119:ILE:HD11	13:S2:1001:CYC:CMA	2.05	0.85
1:A4:201:LEU:CG	7:V8:82:LEU:HD13	2.06	0.85
3:M4:76:THR:HG22	3:M4:79:ARG:NE	1.90	0.85
5:A5:223:ALA:HB3	7:q9:78:THR:HG23	1.58	0.85
5:A5:234:GLN:HB3	7:A9:66:VAL:HG13	1.57	0.85
2:D6:5:PRO:HG2	2:H6:26:GLN:OE1	1.74	0.85
2:D6:24:GLU:OE2	2:D6:24:GLU:N	2.08	0.85
8:I8:109:VAL:HG12	13:I8:1001:CYC:HAB2	1.57	0.85
9:U8:20:GLN:OE1	10:09:730:LYS:NZ	2.08	0.85
7:I9:65:VAL:CG1	13:I9:1001:CYC:OC	2.24	0.85
7:N9:65:VAL:CG1	13:N9:1001:CYC:OC	2.24	0.85
7:T9:65:VAL:CG1	13:T9:1001:CYC:OC	2.24	0.85
5:AA:38:VAL:O	5:AA:40:SER:N	2.10	0.85
5:AA:73:GLN:HE22	4:NA:227:GLY:HA3	1.40	0.85
3:RA:154:CYS:SG	13:RA:201:CYC:C2C	2.65	0.85
1:A1:168:ARG:HH21	1:A1:172:LEU:CD2	1.88	0.85
1:A1:212:PHE:CD1	7:l8:66:VAL:CB	2.58	0.85
3:P2:43:ASN:ND2	13:W2:201:CYC:HBC3	1.89	0.85
3:V2:58:ARG:HH22	2:W2:73:PRO:HB2	1.04	0.85
3:K3:68:ILE:CD1	13:L3:201:CYC:O1A	2.24	0.85
3:I4:151:LYS:HA	13:I4:202:CYC:OB	1.75	0.85
3:P4:76:THR:HG22	3:P4:79:ARG:NE	1.91	0.85
2:W4:119:ILE:CD1	13:W4:1001:CYC:HMA2	2.05	0.85
4:N5:62:LEU:HD11	4:N5:72:PHE:HB3	1.58	0.85
2:B6:123:PHE:CE2	13:B6:1001:CYC:HAA1	2.11	0.85
3:C6:40:ASP:OD2	3:C6:149:ILE:CD1	2.25	0.85
3:C6:154:CYS:CB	13:C6:202:CYC:CAC	2.54	0.85
3:K6:152:GLY:N	13:K6:202:CYC:OB	2.10	0.85
2:B7:123:PHE:CD2	13:B7:1001:CYC:CAA	2.60	0.85
2:H7:22:ASN:O	2:H7:26:GLN:HG3	1.76	0.85
8:m8:78:ARG:NH1	10:09:948:GLY:H	1.75	0.85
1:A1:209:THR:CG2	7:c8:67:SER:N	2.39	0.85
1:A1:212:PHE:O	7:l8:66:VAL:HG23	1.76	0.85
3:I1:128:VAL:CG2	13:I1:201:CYC:CMC	2.54	0.85
3:K1:121:LEU:CD2	13:K1:201:CYC:O2D	2.24	0.85
2:B2:50:GLN:HG3	7:k9:57:GLN:HE21	1.42	0.85
3:C2:58:ARG:HH22	2:D2:73:PRO:HB2	1.40	0.85
3:T4:154:CYS:CB	13:T4:201:CYC:HAC2	2.06	0.85
5:A5:231:ASN:ND2	7:A9:67:SER:HB3	1.92	0.85
3:M6:85:ARG:HD3	4:N6:249:TYR:HB2	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P6:43:ASN:ND2	13:W6:201:CYC:HBC3	1.89	0.85
3:R6:87:MET:CE	13:R6:1001:CYC:CBC	2.27	0.85
2:U6:32:TYR:HE2	3:V6:35:GLY:HA3	1.03	0.85
6:A7:90:GLU:HG3	2:J7:16:GLN:HE21	1.38	0.85
6:A7:103:TYR:CE1	6:A7:128:SER:OG	2.29	0.85
3:C7:154:CYS:CB	13:C7:201:CYC:CAC	2.54	0.85
7:E8:49:ARG:NH1	8:n9:140:SER:HB2	1.91	0.85
8:R8:109:VAL:HG12	13:R8:1001:CYC:HAB2	1.57	0.85
8:T8:109:VAL:HG12	13:T8:1001:CYC:HAB2	1.57	0.85
8:o8:82:CYS:HA	13:o8:1001:CYC:HAC1	1.58	0.85
8:u8:15:VAL:CG2	10:19:944:SER:HB3	2.07	0.85
9:49:23:LEU:HD23	13:D9:1001:CYC:OB	1.77	0.85
7:C9:65:VAL:CG1	13:C9:1001:CYC:OC	2.24	0.85
3:EA:156:GLN:O	3:EA:159:SER:OG	1.94	0.85
4:NA:162:THR:CG2	13:TA:201:CYC:HAC2	2.05	0.85
3:I1:93:TYR:HE2	13:I1:201:CYC:HBB1	1.42	0.85
3:M1:76:THR:HG22	3:M1:79:ARG:NE	1.90	0.85
3:P1:127:SER:HB2	13:P1:201:CYC:HMC3	1.56	0.85
2:Q1:119:ILE:CD1	13:Q1:201:CYC:HMA1	2.07	0.85
5:A2:202:TYR:OH	7:d9:48:GLU:HA	1.75	0.85
3:C2:40:ASP:OD2	3:C2:149:ILE:CD1	2.25	0.85
3:R2:154:CYS:CB	13:U2:201:CYC:H2C	2.06	0.85
2:F4:85:CYS:HA	13:F4:1001:CYC:HAC2	1.56	0.85
3:G4:82:ALA:HB3	13:G4:202:CYC:HMD1	1.58	0.85
5:A5:13:GLN:OE1	5:A5:15:HIS:NE2	2.10	0.85
3:V6:154:CYS:SG	13:V6:201:CYC:C4B	2.64	0.85
2:L7:29:ARG:NH1	13:M7:201:CYC:CMD	2.38	0.85
7:L8:25:ARG:CG	7:Z9:25:ARG:CZ	2.53	0.85
9:U8:36:ASN:HD22	10:09:842:ASN:ND2	1.73	0.85
9:29:23:LEU:HD12	8:U9:88:TYR:HE2	1.40	0.85
5:AA:39:SER:HG	3:MA:2:THR:N	1.75	0.85
5:AA:73:GLN:NE2	4:NA:227:GLY:HA3	1.91	0.85
3:P1:76:THR:HG22	3:P1:79:ARG:NE	1.91	0.85
2:Q2:91:HIS:ND1	13:Q2:201:CYC:HBB3	1.89	0.85
3:I4:128:VAL:CG2	13:I4:201:CYC:CMC	2.54	0.85
3:K4:121:LEU:CD2	13:K4:201:CYC:O2D	2.24	0.85
3:E5:156:GLN:O	3:E5:159:SER:OG	1.94	0.85
3:R5:154:CYS:SG	13:R5:201:CYC:C2C	2.65	0.85
2:B6:123:PHE:CD2	13:B6:1001:CYC:CAA	2.60	0.85
13:q8:1001:CYC:HMA3	10:19:1034:THR:CG2	2.06	0.85
3:C1:13:ALA:HB2	3:C1:20:LEU:HD23	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:16:ARG:O	8:d8:18:LYS:CE	2.24	0.85
4:N1:63:ARG:HD3	13:V1:202:CYC:O2D	1.77	0.85
3:Z1:152:GLY:N	13:Z1:201:CYC:OB	2.09	0.85
3:T2:152:GLY:HA3	13:T2:201:CYC:HMD1	1.58	0.85
2:F4:25:LEU:CB	13:G4:201:CYC:HBB1	2.05	0.85
3:M4:76:THR:CG2	3:M4:79:ARG:HG3	2.06	0.85
3:R6:38:ARG:HH22	3:R6:101:GLY:CA	1.90	0.85
2:W6:29:ARG:CB	13:X6:202:CYC:OC	2.24	0.85
2:W6:34:ARG:HD2	2:W6:150:GLU:OE1	1.76	0.85
6:A7:67:PHE:CE2	2:J7:17:GLY:CA	2.60	0.85
3:K7:83:CYS:HB3	13:K7:201:CYC:C1B	2.05	0.85
3:K7:152:GLY:N	13:K7:202:CYC:OB	2.10	0.85
8:k8:109:VAL:HG12	13:k8:1001:CYC:HAB2	1.57	0.85
7:w9:65:VAL:CG1	13:w9:1001:CYC:OC	2.24	0.85
5:AA:13:GLN:OE1	5:AA:15:HIS:NE2	2.10	0.85
4:NA:62:LEU:HD11	4:NA:72:PHE:HB2	1.58	0.85
1:A1:169:PRO:O	1:A1:173:VAL:HG23	1.75	0.85
5:A2:194:TRP:CD1	7:d9:66:VAL:CG1	2.60	0.85
3:P2:83:CYS:HB2	13:P2:201:CYC:HAC2	0.86	0.85
2:U2:31:ARG:NH2	3:V2:6:PHE:CE1	2.45	0.85
3:X2:83:CYS:HB2	13:X2:201:CYC:HAC2	0.88	0.85
2:B4:86:ALA:HB2	8:W8:26:GLU:HG3	0.86	0.85
2:D4:91:HIS:HB3	13:D4:1001:CYC:CAB	2.05	0.85
2:S6:119:ILE:HD11	13:S6:1001:CYC:CMA	2.05	0.85
7:C8:64:ASP:OD1	7:I9:69:GLY:C	2.19	0.85
7:s9:65:VAL:CG1	13:s9:1001:CYC:OC	2.24	0.85
3:R2:38:ARG:HH22	3:R2:101:GLY:CA	1.90	0.84
3:Z2:87:MET:HE1	13:Z2:202:CYC:HBC2	1.52	0.84
6:A3:71:GLN:CB	6:A3:77:ILE:HD12	2.07	0.84
3:K3:152:GLY:N	13:K3:202:CYC:OB	2.10	0.84
1:A4:199:LEU:HD21	7:V8:76:GLU:CA	2.07	0.84
3:K4:121:LEU:CD2	13:K4:201:CYC:CGD	2.54	0.84
5:A5:178:ARG:CZ	13:A5:303:CYC:O2D	2.24	0.84
5:A5:198:LEU:HB3	7:u9:79:ALA:CB	2.07	0.84
2:S6:29:ARG:HH22	13:T6:201:CYC:HB	1.22	0.84
2:B7:123:PHE:CE2	13:B7:1001:CYC:HAA1	2.11	0.84
3:K7:40:ASP:OD2	3:K7:149:ILE:HD13	1.75	0.84
3:T1:154:CYS:CB	13:T1:201:CYC:HAC2	2.06	0.84
2:Q4:119:ILE:CD1	13:Q4:201:CYC:HMA1	2.07	0.84
3:X4:144:ASN:O	13:X4:202:CYC:HBB1	1.75	0.84
3:C5:68:ILE:HD11	13:D5:1001:CYC:O1A	1.75	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A6:222:LEU:CD2	7:I9:82:LEU:CD1	2.50	0.84
2:Y6:31:ARG:NH2	2:Y6:35:ALA:HB1	1.89	0.84
9:i8:25:ASN:OD1	10:09:1086:GLU:HB3	1.77	0.84
7:j8:110:ILE:HD12	10:09:1117:TRP:CH2	2.11	0.84
3:TA:154:CYS:HB2	13:TA:202:CYC:HAC2	1.58	0.84
2:B1:83:SER:HB2	8:d8:27:LYS:HG3	0.85	0.84
2:F1:22:ASN:CG	2:L1:150:GLU:OE1	2.20	0.84
2:J1:85:CYS:HA	13:J1:1001:CYC:HAC2	1.57	0.84
6:A3:93:ARG:HG3	6:A3:136:LEU:HD12	1.59	0.84
5:A5:229:GLN:C	7:q9:66:VAL:CG1	2.50	0.84
3:K6:68:ILE:CD1	13:L6:201:CYC:O1A	2.23	0.84
2:B7:74:GLN:HA	13:B7:1001:CYC:HBD2	1.58	0.84
2:L7:31:ARG:HH11	2:L7:102:ALA:C	1.84	0.84
8:W8:109:VAL:HG12	13:W8:1001:CYC:HAB2	1.57	0.84
3:ZA:156:GLN:O	3:ZA:159:SER:OG	1.95	0.84
3:K1:121:LEU:CD2	13:K1:201:CYC:CGD	2.54	0.84
2:B2:123:PHE:CD2	13:B2:1001:CYC:CAA	2.60	0.84
3:C2:104:SER:O	3:C2:107:ASP:OD1	1.95	0.84
4:N4:63:ARG:HD3	13:V4:202:CYC:O2D	1.77	0.84
3:C6:104:SER:O	3:C6:107:ASP:OD1	1.95	0.84
4:N6:3:ILE:HG22	3:T6:121:LEU:HD21	1.60	0.84
3:T6:152:GLY:HA3	13:T6:201:CYC:HMD1	1.58	0.84
7:c8:25:ARG:HD2	7:j8:25:ARG:HD2	1.59	0.84
9:29:41:GLN:NE2	13:29:1001:CYC:OB	2.10	0.84
3:TA:128:VAL:HG22	13:TA:201:CYC:HMB2	1.60	0.84
1:A1:195:ILE:CD1	7:c8:80:THR:HG22	1.90	0.84
3:M3:44:ARG:NH2	3:M3:149:ILE:CG1	2.41	0.84
3:I4:93:TYR:HE2	13:I4:201:CYC:HBB1	1.42	0.84
3:P4:77:ASN:ND2	2:Q4:116:LEU:CA	2.32	0.84
5:A6:219:PHE:CZ	7:I9:86:ASP:OD2	2.30	0.84
2:Q6:74:GLN:NE2	2:Q6:75:PHE:CE2	2.45	0.84
6:A7:102:ASN:OD1	3:C7:109:ARG:HG3	1.77	0.84
3:C7:154:CYS:HG	13:C7:201:CYC:HAC2	1.42	0.84
7:O8:78:THR:HB	5:AA:241:ILE:HD12	1.57	0.84
8:W8:84:ARG:O	8:W8:88:TYR:HD1	1.61	0.84
8:m8:70:GLY:HA2	10:09:942:GLY:HA3	1.58	0.84
3:TA:127:SER:HB3	13:TA:201:CYC:CBB	2.07	0.84
1:A1:199:LEU:HD21	7:c8:76:GLU:CA	2.08	0.84
3:E1:128:VAL:HG22	13:E1:201:CYC:HBC3	1.60	0.84
2:H2:22:ASN:O	2:H2:26:GLN:HG3	1.76	0.84
13:T2:201:CYC:HAB2	2:Y2:34:ARG:NH1	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P5:93:TYR:CE2	13:P5:201:CYC:HBB1	2.11	0.84
3:T5:154:CYS:HB2	13:T5:202:CYC:HAC2	1.58	0.84
5:A6:197:THR:CG2	7:N9:75:GLN:HG2	2.08	0.84
2:L6:119:ILE:HD11	13:L6:201:CYC:HMA1	1.60	0.84
3:X6:157:LEU:O	3:X6:161:VAL:HG23	1.76	0.84
2:Y6:31:ARG:HH22	2:Y6:35:ALA:HA	1.39	0.84
6:A7:106:VAL:HG23	6:A7:131:ILE:HD12	1.58	0.84
2:H7:119:ILE:HD11	13:H7:1001:CYC:CMA	2.08	0.84
2:BA:31:ARG:HH11	2:BA:103:GLY:CA	1.91	0.84
3:C3:40:ASP:OD2	3:C3:149:ILE:CD1	2.25	0.84
3:C4:13:ALA:HB2	3:C4:20:LEU:HD23	1.58	0.84
2:F4:22:ASN:CG	2:L4:150:GLU:OE1	2.20	0.84
4:N4:157:GLN:OE1	4:N4:157:GLN:N	2.10	0.84
13:A5:304:CYC:OB	3:K5:74:ALA:CB	2.20	0.84
3:T5:127:SER:HB3	13:T5:201:CYC:CBB	2.07	0.84
3:K6:157:LEU:O	3:K6:161:VAL:HG23	1.78	0.84
3:P6:44:ARG:NH2	3:P6:149:ILE:HG12	1.73	0.84
3:M7:85:ARG:HD3	4:N7:249:TYR:HB2	1.58	0.84
8:d8:109:VAL:HG12	13:d8:1001:CYC:HAB2	1.57	0.84
13:s8:1001:CYC:O2D	10:19:948:GLY:CA	2.26	0.84
3:PA:89:ILE:HG13	13:PA:201:CYC:CBB	2.05	0.84
3:RA:77:ASN:OD1	13:SA:1001:CYC:C4B	2.26	0.84
13:Q1:202:CYC:CMD	3:R1:152:GLY:CA	2.56	0.84
3:V2:150:THR:HG1	13:V2:201:CYC:HAA2	1.37	0.84
2:B3:123:PHE:CD2	13:B3:1001:CYC:CAA	2.60	0.84
2:H3:119:ILE:HD11	13:H3:1001:CYC:CMA	2.08	0.84
3:K6:40:ASP:OD2	3:K6:149:ILE:HD13	1.75	0.84
3:P6:89:ILE:CG2	13:P6:201:CYC:CBB	2.54	0.84
3:C7:104:SER:O	3:C7:107:ASP:OD1	1.95	0.84
8:m8:84:ARG:HH11	10:09:1096:SER:CB	1.89	0.84
3:V2:127:SER:HB3	13:V2:202:CYC:HBB1	1.56	0.84
3:G4:83:CYS:CA	13:G4:202:CYC:HAC2	2.08	0.84
5:A5:205:LYS:HZ3	8:z9:63:TYR:CA	1.67	0.84
3:R5:77:ASN:OD1	13:S5:1001:CYC:C4B	2.26	0.84
3:Z5:150:THR:OG1	13:Z5:202:CYC:CAA	2.25	0.84
2:Q6:34:ARG:HH12	2:Q6:146:GLN:NE2	1.76	0.84
3:M7:44:ARG:NH2	3:M7:149:ILE:CG1	2.41	0.84
8:K8:109:VAL:HG12	13:K8:1001:CYC:HAB2	1.57	0.84
7:n8:15:ALA:HB1	10:09:989:GLN:HG3	1.57	0.84
7:o9:76:GLU:HB3	5:AA:201:PHE:CD2	2.12	0.84
5:AA:57:SER:HB3	13:AA:303:CYC:O2A	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O2:31:ARG:HH21	2:O2:35:ALA:HB2	0.69	0.84
2:Q2:34:ARG:HH12	2:Q2:146:GLN:NE2	1.76	0.84
1:A4:195:ILE:HG23	7:V8:80:THR:N	1.93	0.84
2:F5:32:TYR:CD1	3:G5:35:GLY:HA3	2.13	0.84
5:A6:194:TRP:HD1	7:N9:66:VAL:HG13	1.40	0.84
5:A6:230:GLY:N	7:I9:66:VAL:HG11	1.90	0.84
2:O6:31:ARG:HH21	2:O6:35:ALA:HB2	0.69	0.84
2:U6:31:ARG:NH2	3:V6:6:PHE:CE1	2.45	0.84
2:W6:74:GLN:OE1	2:W6:124:ASP:CB	2.26	0.84
13:A7:301:CYC:CAB	3:C7:110:CYS:HA	2.08	0.84
13:A7:301:CYC:CAC	3:C7:83:CYS:HB2	2.06	0.84
3:C7:40:ASP:OD2	3:C7:149:ILE:CD1	2.25	0.84
8:B8:77:ARG:NE	10:09:542:GLU:OE1	2.10	0.84
7:n8:110:ILE:CD1	10:09:954:ARG:NH2	2.40	0.84
8:o8:88:TYR:HE1	8:o8:109:VAL:HG11	1.42	0.84
8:J9:78:ARG:HH12	11:Q9:166:GLU:HG2	1.43	0.84
3:G2:12:GLN:OE1	8:h8:148:LYS:HE3	1.78	0.83
3:X2:157:LEU:O	3:X2:161:VAL:HG23	1.76	0.83
6:A3:90:GLU:CB	2:J3:16:GLN:HG2	2.08	0.83
4:N4:117:HIS:CE1	4:N4:133:TYR:CZ	2.66	0.83
3:V4:127:SER:HB2	13:V4:202:CYC:HBB3	1.58	0.83
6:A7:102:ASN:HD21	3:C7:109:ARG:HB3	1.39	0.83
3:C7:58:ARG:HH22	2:D7:73:PRO:HB2	1.40	0.83
7:E8:49:ARG:HH12	8:n9:140:SER:HB2	1.40	0.83
7:E8:113:ARG:HH22	7:G9:113:ARG:NH2	1.76	0.83
3:V2:144:ASN:C	13:V2:201:CYC:HBB1	2.03	0.83
13:A3:301:CYC:CAB	3:C3:110:CYS:HA	2.08	0.83
5:A5:241:ILE:CG2	7:A9:82:LEU:HD12	2.08	0.83
2:B6:50:GLN:CG	7:T9:57:GLN:HE21	1.81	0.83
3:V6:154:CYS:SG	13:V6:201:CYC:C2B	2.66	0.83
8:F8:109:VAL:HG12	13:F8:1001:CYC:HAB2	1.57	0.83
7:g8:56:ASP:OD2	7:X9:74:GLY:CA	2.23	0.83
2:FA:32:TYR:CD1	3:GA:35:GLY:HA3	2.13	0.83
13:RA:201:CYC:HAB1	2:UA:34:ARG:HH11	1.40	0.83
2:F1:25:LEU:CB	13:G1:201:CYC:HBB1	2.05	0.83
3:V1:36:ASN:OD1	13:V1:201:CYC:C2D	2.26	0.83
3:V1:127:SER:HB2	13:V1:202:CYC:HBB3	1.58	0.83
5:A2:230:GLY:H	7:X9:66:VAL:HG12	1.42	0.83
2:B2:123:PHE:CE2	13:B2:1001:CYC:HAA1	2.11	0.83
2:Y2:31:ARG:HH22	2:Y2:35:ALA:HA	1.39	0.83
2:H3:31:ARG:NH1	2:H3:103:GLY:HA3	1.90	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K3:157:LEU:O	3:K3:161:VAL:HG23	1.78	0.83
1:A4:84:ARG:CB	4:N4:230:VAL:HG21	2.08	0.83
5:A5:64:PHE:CZ	2:J5:18:ARG:CD	2.61	0.83
2:B6:74:GLN:HA	13:B6:1001:CYC:HBD2	1.58	0.83
3:C6:87:MET:HE1	13:C6:201:CYC:CBC	2.07	0.83
8:s8:144:ALA:HB3	8:O9:29:LYS:HZ1	1.40	0.83
10:09:1096:SER:O	13:09:1201:CYC:C4B	2.26	0.83
3:ZA:150:THR:OG1	13:ZA:202:CYC:CAA	2.25	0.83
1:A1:207:ILE:CG2	7:c8:59:PHE:HB3	2.08	0.83
3:M1:76:THR:HG23	3:M1:79:ARG:HG3	1.60	0.83
3:G2:157:LEU:O	3:G2:160:GLU:CG	2.26	0.83
3:Z4:152:GLY:N	13:Z4:201:CYC:OB	2.09	0.83
5:A5:223:ALA:HB2	7:q9:78:THR:HG23	1.57	0.83
5:A5:229:GLN:HA	7:q9:66:VAL:CG1	2.07	0.83
7:A8:64:ASP:OD1	7:K9:70:GLY:N	2.12	0.83
8:u8:109:VAL:HG12	13:19:1201:CYC:HAB2	1.57	0.83
7:w9:59:PHE:HB3	5:AA:228:ASN:HD22	0.70	0.83
3:TA:128:VAL:HG22	13:TA:201:CYC:CMB	2.08	0.83
1:A1:84:ARG:CB	4:N1:230:VAL:HG21	2.08	0.83
3:R2:87:MET:HE1	13:R2:1001:CYC:HBC3	1.59	0.83
3:G4:69:ALA:HB2	8:W8:16:GLN:HE21	1.38	0.83
3:T5:128:VAL:HG22	13:T5:201:CYC:CMB	2.08	0.83
7:O8:68:PRO:CD	5:AA:231:ASN:CG	2.52	0.83
2:D1:85:CYS:HA	13:D1:1001:CYC:HAC2	1.60	0.83
2:D2:119:ILE:HD11	13:D2:1001:CYC:CMA	2.09	0.83
3:G2:157:LEU:O	3:G2:160:GLU:HG2	1.79	0.83
2:H2:119:ILE:HD11	13:H2:1001:CYC:CMA	2.08	0.83
4:N2:3:ILE:HG22	3:T2:121:LEU:HD21	1.60	0.83
3:V2:154:CYS:SG	13:V2:201:CYC:C2B	2.66	0.83
3:G3:157:LEU:O	3:G3:160:GLU:CG	2.26	0.83
1:A4:195:ILE:HG23	7:V8:80:THR:CA	2.08	0.83
3:G4:70:PRO:CG	8:W8:18:LYS:HZ1	1.90	0.83
3:P4:89:ILE:HG21	13:P4:201:CYC:CBB	2.01	0.83
13:Q4:202:CYC:CMD	3:R4:152:GLY:CA	2.56	0.83
3:X6:38:ARG:HH22	3:X6:101:GLY:CA	1.90	0.83
6:A7:90:GLU:CB	2:J7:16:GLN:HG2	2.08	0.83
7:E8:113:ARG:NH2	7:G9:113:ARG:NH2	2.27	0.83
1:A1:212:PHE:CE1	7:l8:66:VAL:HB	2.12	0.83
5:A2:219:PHE:HZ	7:X9:86:ASP:OD2	1.60	0.83
4:N5:92:GLN:HG3	4:N5:118:LEU:HD21	1.60	0.83
3:Z5:156:GLN:O	3:Z5:159:SER:OG	1.95	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G8:36:ASN:HD21	10:09:586:ARG:HH22	0.87	0.83
3:IA:87:MET:HE3	13:IA:201:CYC:HBC3	1.58	0.83
3:VA:74:ALA:HB2	13:VA:201:CYC:OB	1.79	0.83
1:A1:202:ALA:HB1	7:c8:78:THR:HB	1.58	0.83
3:G1:82:ALA:HB3	13:G1:202:CYC:HMD1	1.58	0.83
4:N1:117:HIS:CE1	4:N1:133:TYR:CZ	2.66	0.83
2:Q2:31:ARG:HH22	2:Q2:35:ALA:CB	1.85	0.83
6:A3:67:PHE:CE2	2:J3:17:GLY:CA	2.59	0.83
6:A3:88:LYS:HZ1	6:A3:141:ASP:CG	1.81	0.83
6:A3:106:VAL:HG23	6:A3:131:ILE:HD12	1.58	0.83
2:J5:32:TYR:HE1	3:K5:35:GLY:CA	1.86	0.83
5:A6:73:GLN:HE22	4:N6:227:GLY:HA3	1.37	0.83
2:D6:34:ARG:NH1	2:D6:146:GLN:NE2	2.14	0.83
3:G6:157:LEU:O	3:G6:160:GLU:HG2	1.78	0.83
3:X6:83:CYS:CB	13:X6:201:CYC:CAC	2.50	0.83
6:A7:93:ARG:HG3	6:A7:136:LEU:HD12	1.59	0.83
3:E7:85:ARG:NH2	13:E7:201:CYC:O2A	2.12	0.83
3:G7:157:LEU:O	3:G7:160:GLU:HG2	1.78	0.83
7:X8:14:GLU:HG2	10:19:955:LYS:HZ1	1.43	0.83
8:m8:78:ARG:HH11	10:09:948:GLY:H	1.26	0.83
10:09:395:TYR:CD1	9:29:21:ARG:NH2	2.45	0.83
10:09:986:PHE:HZ	10:09:1113:VAL:CG1	1.91	0.83
3:K2:157:LEU:O	3:K2:161:VAL:HG23	1.78	0.83
3:M2:44:ARG:NH2	3:M2:149:ILE:CG1	2.41	0.83
3:E4:128:VAL:HG22	13:E4:201:CYC:HBC3	1.59	0.83
3:K7:157:LEU:O	3:K7:161:VAL:HG23	1.78	0.83
8:o8:116:THR:HA	10:09:1114:LYS:HE2	1.61	0.83
5:AA:56:PHE:HB3	5:AA:60:GLU:HB3	1.61	0.83
2:F1:94:ARG:NH2	3:G1:14:ASP:OD2	2.12	0.83
3:K4:126:SER:HB2	3:T4:12:GLN:OE1	1.79	0.83
3:M6:44:ARG:NH2	3:M6:149:ILE:CG1	2.41	0.83
3:E7:87:MET:HE1	13:E7:201:CYC:HBC1	1.46	0.83
8:m8:84:ARG:NH1	10:09:1096:SER:CB	2.42	0.83
4:NA:237:TYR:HE2	4:NA:263:TYR:CE1	1.97	0.83
3:PA:93:TYR:HE2	13:PA:201:CYC:HBB1	1.40	0.83
3:K1:126:SER:HB2	3:T1:12:GLN:OE1	1.79	0.82
4:N1:157:GLN:OE1	4:N1:157:GLN:N	2.10	0.82
3:T1:154:CYS:HG	13:T1:201:CYC:H2C	1.38	0.82
3:M2:85:ARG:HD3	4:N2:249:TYR:HB2	1.59	0.82
3:E3:85:ARG:NH2	13:E3:201:CYC:O2A	2.12	0.82
3:G3:157:LEU:O	3:G3:160:GLU:HG2	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N4:48:TYR:CB	3:P4:85:ARG:HH11	1.92	0.82
3:T4:76:THR:HG22	3:T4:79:ARG:CD	2.09	0.82
3:V4:36:ASN:OD1	13:V4:201:CYC:C2D	2.26	0.82
2:F5:63:LYS:HA	3:G7:66:GLN:CB	2.09	0.82
3:R5:154:CYS:HG	13:R5:201:CYC:HAC2	1.39	0.82
2:D6:119:ILE:HD11	13:D6:1001:CYC:CMA	2.09	0.82
2:O6:30:GLY:HA2	2:W6:30:GLY:CA	2.09	0.82
8:K8:11:ASN:OD1	10:19:537:SER:HB2	1.78	0.82
2:H1:34:ARG:CZ	2:H1:150:GLU:OE2	2.27	0.82
1:A4:168:ARG:NH2	1:A4:172:LEU:HD13	1.92	0.82
2:H4:34:ARG:CZ	2:H4:150:GLU:OE2	2.27	0.82
3:V4:152:GLY:N	13:V4:201:CYC:OB	2.11	0.82
5:A5:56:PHE:HB3	5:A5:60:GLU:HB3	1.61	0.82
5:A5:229:GLN:CA	7:q9:66:VAL:CG1	2.57	0.82
3:G6:157:LEU:O	3:G6:160:GLU:CG	2.26	0.82
7:t8:83:ARG:HD3	10:19:933:LEU:HB2	1.60	0.82
9:49:41:GLN:NE2	13:F9:1001:CYC:C4B	2.41	0.82
3:TA:121:LEU:HD23	13:TA:201:CYC:CGA	2.09	0.82
3:G1:83:CYS:CA	13:G1:202:CYC:HAC2	2.08	0.82
2:D2:31:ARG:HH11	2:D2:102:ALA:C	1.88	0.82
3:K2:152:GLY:N	13:K2:202:CYC:OB	2.10	0.82
2:W2:74:GLN:OE1	2:W2:124:ASP:CB	2.26	0.82
3:C3:104:SER:O	3:C3:107:ASP:OD1	1.95	0.82
3:I3:58:ARG:HH22	2:J3:73:PRO:HB2	1.44	0.82
1:A4:192:GLU:OE2	8:W8:17:GLY:O	1.97	0.82
4:N5:237:TYR:HE2	4:N5:263:TYR:CE1	1.97	0.82
2:H6:31:ARG:CZ	2:H6:35:ALA:CB	2.57	0.82
3:G7:157:LEU:O	3:G7:160:GLU:CG	2.26	0.82
3:E2:85:ARG:NH2	13:E2:201:CYC:O2A	2.12	0.82
2:H2:31:ARG:HD2	2:H2:35:ALA:HB2	1.61	0.82
3:M2:44:ARG:HH21	3:M2:149:ILE:CG1	1.92	0.82
2:D3:31:ARG:HH11	2:D3:102:ALA:C	1.88	0.82
2:B4:53:ILE:HD13	8:W8:22:THR:HG21	1.58	0.82
3:E5:152:GLY:HA3	13:E5:201:CYC:CMD	2.09	0.82
2:O5:34:ARG:NH2	2:O5:150:GLU:CD	2.38	0.82
3:V5:74:ALA:HB2	13:V5:201:CYC:OB	1.79	0.82
3:E6:85:ARG:NH2	13:E6:201:CYC:O2A	2.12	0.82
2:Q6:74:GLN:HE21	2:Q6:75:PHE:HE2	1.21	0.82
1:A1:168:ARG:NH2	1:A1:172:LEU:HD13	1.92	0.82
3:T1:76:THR:HG22	3:T1:79:ARG:CD	2.09	0.82
3:X2:73:ASN:O	3:X2:79:ARG:HD3	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I4:154:CYS:O	3:I4:156:GLN:N	2.13	0.82
3:K4:154:CYS:SG	13:K4:202:CYC:HAB2	2.19	0.82
5:A5:57:SER:HB3	13:A5:303:CYC:O2A	1.76	0.82
5:A5:219:PHE:CD2	7:q9:83:ARG:HA	2.15	0.82
3:M5:144:ASN:O	13:M5:1003:CYC:HBB1	1.80	0.82
4:N5:63:ARG:HB3	13:V5:201:CYC:O1D	1.79	0.82
3:R6:83:CYS:HB2	13:R6:1001:CYC:HAC2	0.84	0.82
3:X6:73:ASN:O	3:X6:79:ARG:HD3	1.79	0.82
7:O8:52:LYS:HB3	5:AA:239:PHE:CD2	2.14	0.82
7:c8:41:GLN:HE22	8:d8:25:LEU:CD1	1.92	0.82
9:49:23:LEU:HD22	13:D9:1001:CYC:C4B	2.09	0.82
3:RA:157:LEU:O	3:RA:157:LEU:HD13	1.80	0.82
5:A5:241:ILE:HD11	7:A9:79:ALA:N	1.93	0.82
3:V6:144:ASN:C	13:V6:201:CYC:HBB1	2.03	0.82
3:I7:58:ARG:HH22	2:J7:73:PRO:HB2	1.44	0.82
8:B8:84:ARG:NE	10:09:572:ILE:CD1	2.41	0.82
9:U8:30:LYS:HA	10:09:777:GLU:O	1.79	0.82
9:U8:43:ARG:HD2	10:09:851:ASN:HD22	0.71	0.82
7:Z8:25:ARG:HD2	7:r8:25:ARG:HD2	1.62	0.82
2:B1:53:ILE:CD1	8:d8:22:THR:CG2	2.56	0.82
2:L1:51:ARG:CZ	3:C3:148:GLY:CA	2.51	0.82
2:S2:85:CYS:SG	13:S2:1001:CYC:HAC2	2.20	0.82
1:A4:168:ARG:NH2	1:A4:172:LEU:HD22	1.95	0.82
3:M4:76:THR:HG23	3:M4:79:ARG:HG3	1.60	0.82
10:19:732:VAL:HG12	9:49:24:GLN:NE2	1.94	0.82
2:JA:32:TYR:HE1	3:KA:35:GLY:CA	1.87	0.82
4:NA:63:ARG:HB3	13:VA:201:CYC:O1D	1.79	0.82
3:E2:58:ARG:NH1	13:F2:1001:CYC:O2D	2.13	0.82
2:Q2:74:GLN:NE2	2:Q2:75:PHE:CE2	2.45	0.82
3:R2:121:LEU:HD21	13:R2:1001:CYC:HAA2	1.61	0.82
2:H3:31:ARG:NE	2:H3:103:GLY:HA3	1.94	0.82
3:P4:127:SER:CB	13:P4:201:CYC:HMC2	2.06	0.82
3:R5:157:LEU:HD13	3:R5:157:LEU:O	1.80	0.82
3:Z5:89:ILE:HG21	13:Z5:201:CYC:HMB2	1.61	0.82
3:C6:58:ARG:HH22	2:D6:73:PRO:HB2	1.40	0.82
3:X6:44:ARG:NH2	3:X6:149:ILE:CG1	2.43	0.82
3:E7:58:ARG:NH1	13:F7:1001:CYC:O2D	2.13	0.82
3:K7:43:ASN:HB2	13:K7:202:CYC:HBC3	1.62	0.82
7:e8:106:GLU:HG2	10:09:969:ALA:HB2	1.60	0.82
8:s8:78:ARG:NE	13:s8:1001:CYC:O1D	2.11	0.82
10:19:956:PRO:HG2	10:19:1091:TYR:CD2	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:49:14:LEU:CD2	8:D9:77:ARG:NE	2.43	0.82
7:o9:76:GLU:CG	5:AA:201:PHE:CD2	2.57	0.82
4:NA:63:ARG:HB2	13:VA:201:CYC:O1D	1.79	0.82
2:OA:34:ARG:NH2	2:OA:150:GLU:CD	2.38	0.82
3:I1:154:CYS:O	3:I1:156:GLN:N	2.13	0.82
2:S1:74:GLN:HA	13:S1:1001:CYC:HBD2	1.62	0.82
2:W2:29:ARG:HG3	13:W2:203:CYC:C1C	2.09	0.82
3:X2:44:ARG:NH2	3:X2:149:ILE:CG1	2.43	0.82
2:F4:94:ARG:NH2	3:G4:14:ASP:OD2	2.12	0.82
5:A5:219:PHE:HB3	7:q9:82:LEU:HB2	1.60	0.82
2:D6:31:ARG:HH11	2:D6:102:ALA:C	1.88	0.82
2:D7:119:ILE:HD11	13:D7:1001:CYC:CMA	2.09	0.82
3:G7:152:GLY:HA3	13:G7:202:CYC:HMD1	1.62	0.82
7:J8:9:VAL:CG1	10:19:540:PHE:HE2	1.92	0.82
8:z9:125:GLY:O	8:z9:129:GLN:HG2	1.80	0.82
3:XA:144:ASN:C	13:XA:202:CYC:HBB1	2.04	0.82
2:YA:34:ARG:HD3	2:YA:150:GLU:CD	2.05	0.82
3:C4:152:GLY:CA	13:C4:302:CYC:CMD	2.58	0.82
2:B5:31:ARG:HH11	2:B5:103:GLY:CA	1.91	0.82
3:T5:128:VAL:HG22	13:T5:201:CYC:HMB2	1.60	0.82
3:Z5:87:MET:HE3	13:Z5:201:CYC:HBC3	1.60	0.82
5:A6:194:TRP:CD1	7:N9:66:VAL:CG1	2.62	0.82
7:S8:20:PRO:HG3	7:w9:101:VAL:HG13	1.60	0.82
8:o8:113:LEU:HD21	13:o8:1001:CYC:CMB	2.08	0.82
13:AA:304:CYC:HBC1	3:KA:114:LEU:CD2	2.10	0.82
3:I1:128:VAL:HG22	13:I1:201:CYC:HMC1	1.62	0.81
3:I4:128:VAL:HG22	13:I4:201:CYC:HMC1	1.62	0.81
2:Y5:34:ARG:HD3	2:Y5:150:GLU:CD	2.05	0.81
3:K6:43:ASN:HB2	13:K6:202:CYC:HBC3	1.62	0.81
2:O6:34:ARG:HH22	13:X6:202:CYC:HAC2	1.39	0.81
3:R6:121:LEU:HD21	13:R6:1001:CYC:HAA2	1.61	0.81
6:A7:11:SER:OG	6:A7:119:TYR:CB	2.28	0.81
7:H8:64:ASP:OD1	7:Z9:70:GLY:N	2.13	0.81
13:k8:1001:CYC:OB	10:09:1033:ASN:HB2	1.78	0.81
2:L2:119:ILE:HD11	13:L2:201:CYC:HMA1	1.60	0.81
2:L3:119:ILE:HD11	13:L3:201:CYC:HMA1	1.60	0.81
13:Q4:202:CYC:HAC2	3:R4:154:CYS:SG	2.20	0.81
4:N5:63:ARG:HB2	13:V5:201:CYC:O1D	1.79	0.81
3:P5:83:CYS:CB	13:P5:201:CYC:HAC2	2.10	0.81
3:T5:121:LEU:HD23	13:T5:201:CYC:CGA	2.09	0.81
6:A7:71:GLN:CB	6:A7:77:ILE:HD12	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:m8:78:ARG:NE	13:09:1201:CYC:O1D	2.11	0.81
3:EA:152:GLY:HA3	13:EA:201:CYC:CMD	2.09	0.81
3:GA:152:GLY:HA3	13:GA:1002:CYC:CMD	2.10	0.81
4:NA:62:LEU:HD21	4:NA:72:PHE:CB	2.10	0.81
3:RA:58:ARG:HH21	13:SA:1001:CYC:CGD	1.93	0.81
3:C1:152:GLY:CA	13:C1:302:CYC:CMD	2.58	0.81
3:M1:40:ASP:OD2	13:M1:202:CYC:C4A	2.29	0.81
3:P2:68:ILE:HD12	13:Q2:201:CYC:O1A	1.80	0.81
3:V2:44:ARG:HH21	3:V2:149:ILE:HG12	1.43	0.81
3:X2:58:ARG:NH2	2:Y2:73:PRO:CG	2.43	0.81
1:A4:168:ARG:CB	1:A4:173:VAL:CG2	2.58	0.81
1:A4:205:ILE:HG23	7:V8:56:ASP:CG	2.04	0.81
2:Q5:28:ALA:O	2:Q5:32:TYR:CD2	2.34	0.81
3:X5:144:ASN:C	13:X5:202:CYC:HBB1	2.04	0.81
2:H6:119:ILE:HD11	13:H6:1001:CYC:CMA	2.08	0.81
8:P8:78:ARG:NE	13:P8:1001:CYC:O1D	2.11	0.81
9:b8:24:GLN:HE21	10:19:963:THR:HA	0.66	0.81
9:49:18:ARG:O	8:D9:84:ARG:CD	2.29	0.81
5:AA:64:PHE:CZ	2:JA:18:ARG:CD	2.61	0.81
3:IA:87:MET:CE	13:IA:201:CYC:HBC3	2.08	0.81
4:NA:237:TYR:CE2	4:NA:263:TYR:CE1	2.68	0.81
3:PA:83:CYS:CB	13:PA:201:CYC:HAC2	2.10	0.81
2:O1:85:CYS:CB	13:O1:1001:CYC:HAC2	2.10	0.81
2:L2:73:PRO:O	13:L2:201:CYC:HBD2	1.81	0.81
2:O2:30:GLY:HA2	2:W2:30:GLY:CA	2.09	0.81
6:A3:57:HIS:HE1	3:G3:86:ASP:N	1.77	0.81
2:D3:119:ILE:HD11	13:D3:1001:CYC:CMA	2.09	0.81
5:A6:40:SER:HG	3:M6:2:THR:N	1.79	0.81
3:G6:152:GLY:HA3	13:G6:201:CYC:HMD1	1.62	0.81
2:S6:85:CYS:SG	13:S6:1001:CYC:HAC2	2.20	0.81
2:H7:31:ARG:HE	2:H7:35:ALA:HB2	1.42	0.81
3:M7:44:ARG:HH21	3:M7:149:ILE:CG1	1.93	0.81
8:h8:109:VAL:CG1	13:h8:1001:CYC:HAB1	2.11	0.81
8:o8:84:ARG:NH1	13:o8:1001:CYC:O2A	2.13	0.81
3:RA:154:CYS:SG	13:RA:201:CYC:H2C	2.20	0.81
2:B1:87:ARG:HB2	8:d8:23:ALA:HB2	1.61	0.81
13:Q1:202:CYC:HAC2	3:R1:154:CYS:SG	2.20	0.81
6:A3:11:SER:OG	6:A3:119:TYR:CB	2.27	0.81
3:G3:152:GLY:HA3	13:G3:202:CYC:HMD1	1.62	0.81
3:K4:83:CYS:CB	13:K4:201:CYC:C1B	2.59	0.81
2:L4:51:ARG:NH1	3:C7:148:GLY:N	2.27	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A5:304:CYC:HBC1	3:K5:114:LEU:CD2	2.10	0.81
4:N5:237:TYR:CE2	4:N5:263:TYR:CE1	2.68	0.81
5:A6:246:ALA:HB1	7:C8:79:ALA:HB2	1.58	0.81
2:L7:119:ILE:HD11	13:L7:201:CYC:HMA1	1.60	0.81
8:f8:109:VAL:CG1	13:f8:1001:CYC:HAB1	2.11	0.81
9:49:10:LEU:HA	9:49:26:THR:O	1.80	0.81
2:BA:32:TYR:CE1	3:CA:35:GLY:HA3	2.16	0.81
3:K1:152:GLY:O	13:K1:202:CYC:OB	1.99	0.81
2:L3:31:ARG:O	2:L3:31:ARG:HD3	1.81	0.81
5:A6:39:SER:HG	3:M6:2:THR:N	1.79	0.81
3:M6:44:ARG:HH21	3:M6:149:ILE:CG1	1.92	0.81
2:Q6:31:ARG:HH22	2:Q6:35:ALA:CB	1.85	0.81
2:QA:32:TYR:CE1	3:RA:35:GLY:CA	2.61	0.81
2:O2:34:ARG:CZ	13:W2:203:CYC:H2C	2.11	0.81
2:Q2:31:ARG:NH2	2:Q2:35:ALA:HB1	1.92	0.81
2:L3:73:PRO:O	13:L3:201:CYC:HBD2	1.81	0.81
3:I4:126:SER:HB3	3:T4:71:GLY:O	1.80	0.81
2:J4:85:CYS:SG	13:J4:1001:CYC:H2C	2.20	0.81
2:B5:32:TYR:CE1	3:C5:35:GLY:HA3	2.16	0.81
3:G5:152:GLY:HA3	13:G5:201:CYC:CMD	2.10	0.81
3:I5:87:MET:CE	13:I5:201:CYC:HBC3	2.08	0.81
4:N5:115:VAL:HA	13:N5:301:CYC:O2A	1.81	0.81
2:Q5:32:TYR:CE1	3:R5:35:GLY:CA	2.61	0.81
13:T6:201:CYC:HAB2	2:Y6:34:ARG:NH1	1.92	0.81
6:A7:57:HIS:HE1	3:G7:86:ASP:N	1.77	0.81
2:D7:31:ARG:HH11	2:D7:102:ALA:C	1.88	0.81
8:D8:109:VAL:CG1	13:D8:1001:CYC:HAB1	2.11	0.81
8:P8:109:VAL:CG1	13:P8:1001:CYC:HAB1	2.11	0.81
8:a8:109:VAL:CG1	13:b8:1001:CYC:HAB1	2.11	0.81
8:k8:109:VAL:CG1	13:k8:1001:CYC:HAB1	2.11	0.81
8:m8:70:GLY:O	10:09:942:GLY:CA	2.29	0.81
9:49:12:PRO:CG	9:49:47:ALA:O	2.27	0.81
7:w9:81:CYS:SG	13:w9:1001:CYC:CBC	2.69	0.81
3:T1:158:ILE:HD11	13:T1:201:CYC:HBC2	1.62	0.81
2:H2:31:ARG:HH11	2:H2:103:GLY:N	1.78	0.81
2:S4:74:GLN:HA	13:S4:1001:CYC:HBD2	1.62	0.81
5:A5:241:ILE:CD1	7:A9:78:THR:HG22	2.10	0.81
3:R5:58:ARG:HH21	13:S5:1001:CYC:CGD	1.93	0.81
7:L8:113:ARG:HH22	7:b9:113:ARG:NH2	1.78	0.81
7:i9:81:CYS:SG	13:i9:1001:CYC:CBC	2.69	0.81
7:o9:81:CYS:SG	13:o9:1001:CYC:CBC	2.69	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AA:303:CYC:CAC	3:GA:83:CYS:CA	2.47	0.81
3:K1:121:LEU:CG	13:K1:201:CYC:O2D	2.29	0.81
3:I2:58:ARG:CZ	2:J2:73:PRO:CB	2.59	0.81
2:L2:31:ARG:O	2:L2:31:ARG:HD3	1.81	0.81
2:L4:51:ARG:HH22	3:C7:148:GLY:C	1.69	0.81
5:A5:17:VAL:CG1	3:E5:85:ARG:CZ	2.59	0.81
5:A5:239:PHE:HE2	7:A9:52:LYS:C	1.88	0.81
3:T5:36:ASN:HD21	13:T5:202:CYC:HAA2	1.46	0.81
5:A6:174:LEU:HD12	13:G6:202:CYC:OB	1.80	0.81
3:X6:38:ARG:HH22	3:X6:101:GLY:HA3	1.42	0.81
8:D8:78:ARG:NE	13:D8:1001:CYC:O1D	2.11	0.81
7:H8:64:ASP:OD1	7:Z9:69:GLY:CA	2.28	0.81
7:j8:9:VAL:HG23	10:09:1029:THR:HG21	1.62	0.81
8:m8:109:VAL:CG1	13:09:1201:CYC:HAB1	2.11	0.81
9:49:14:LEU:HD21	8:D9:77:ARG:HD3	1.62	0.81
7:A9:81:CYS:SG	13:A9:1001:CYC:CBC	2.69	0.81
7:f9:81:CYS:SG	13:f9:1001:CYC:CBC	2.69	0.81
5:AA:64:PHE:HZ	2:JA:18:ARG:NH1	1.78	0.81
3:P1:127:SER:HB2	13:P1:201:CYC:CMC	2.11	0.81
3:E3:68:ILE:CD1	13:F3:1001:CYC:O1A	2.29	0.81
3:K3:43:ASN:HB2	13:K3:202:CYC:HBC3	1.62	0.81
3:K4:152:GLY:O	13:K4:202:CYC:OB	1.99	0.81
3:R5:154:CYS:SG	13:R5:201:CYC:H2C	2.21	0.81
2:L7:31:ARG:O	2:L7:31:ARG:HD3	1.81	0.81
8:F8:109:VAL:CG1	13:F8:1001:CYC:HAB1	2.11	0.81
7:H8:151:SER:OG	7:X9:20:PRO:CB	2.29	0.81
8:R8:109:VAL:CG1	13:R8:1001:CYC:HAB1	2.11	0.81
8:W8:109:VAL:CG1	13:W8:1001:CYC:HAB1	2.11	0.81
8:d8:109:VAL:CG1	13:d8:1001:CYC:HAB1	2.11	0.81
7:E9:81:CYS:SG	13:E9:1001:CYC:CBC	2.69	0.81
7:R9:81:CYS:SG	13:R9:1001:CYC:CBC	2.69	0.81
7:X9:81:CYS:SG	13:X9:1001:CYC:CBC	2.69	0.81
13:AA:304:CYC:OB	3:KA:74:ALA:CB	2.20	0.81
3:MA:144:ASN:O	13:MA:1003:CYC:HBB1	1.80	0.81
2:QA:28:ALA:O	2:QA:32:TYR:CD2	2.34	0.81
3:R2:83:CYS:HB2	13:R2:1001:CYC:HAC2	0.84	0.80
3:M3:44:ARG:HH21	3:M3:149:ILE:CG1	1.93	0.80
3:G5:36:ASN:HD21	13:G5:201:CYC:HAA2	1.46	0.80
3:E6:58:ARG:NH1	13:F6:1001:CYC:O2D	2.13	0.80
3:I6:58:ARG:CZ	2:J6:73:PRO:CB	2.59	0.80
3:V6:144:ASN:CA	13:V6:201:CYC:HBB1	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E7:68:ILE:CD1	13:F7:1001:CYC:O1A	2.29	0.80
8:I8:109:VAL:CG1	13:I8:1001:CYC:HAB1	2.11	0.80
8:T8:109:VAL:CG1	13:T8:1001:CYC:HAB1	2.11	0.80
8:u8:78:ARG:NE	13:19:1201:CYC:O1D	2.11	0.80
7:y9:81:CYS:SG	13:y9:1001:CYC:CBC	2.69	0.80
5:AA:17:VAL:CG1	3:EA:85:ARG:CZ	2.59	0.80
3:TA:36:ASN:HD21	13:TA:202:CYC:HAA2	1.46	0.80
3:K1:83:CYS:CB	13:K1:201:CYC:C1B	2.58	0.80
2:D2:31:ARG:NH1	2:D2:103:GLY:N	2.30	0.80
3:V2:144:ASN:CA	13:V2:201:CYC:HBB1	2.10	0.80
5:A5:64:PHE:HZ	2:J5:18:ARG:NH1	1.78	0.80
3:V6:34:GLU:OE2	3:V6:157:LEU:HD21	1.80	0.80
8:Y8:109:VAL:CG1	13:Y8:1001:CYC:HAB1	2.10	0.80
8:f8:78:ARG:NE	13:f8:1001:CYC:O1D	2.11	0.80
7:G9:81:CYS:SG	13:G9:1001:CYC:CBC	2.69	0.80
7:N9:81:CYS:SG	13:N9:1001:CYC:CBC	2.69	0.80
7:o9:76:GLU:HG3	5:AA:201:PHE:HB2	1.63	0.80
5:AA:17:VAL:HG11	3:EA:85:ARG:NH1	1.96	0.80
2:SA:34:ARG:HD3	2:SA:150:GLU:OE2	1.82	0.80
3:ZA:89:ILE:HG21	13:ZA:201:CYC:HMB2	1.61	0.80
2:F1:25:LEU:HB3	13:G1:201:CYC:CBB	2.07	0.80
13:I1:202:CYC:HHA	13:I1:202:CYC:CBD	2.12	0.80
5:A2:174:LEU:HD12	13:G2:202:CYC:OB	1.80	0.80
3:R2:121:LEU:HD11	13:R2:1001:CYC:C2A	2.11	0.80
2:D4:85:CYS:HA	13:D4:1001:CYC:HAC2	1.60	0.80
3:T4:158:ILE:HD11	13:T4:201:CYC:HBC2	1.62	0.80
3:Z4:83:CYS:SG	13:Z4:202:CYC:H2C	2.21	0.80
5:A5:229:GLN:CA	7:q9:66:VAL:HG11	2.12	0.80
2:F5:34:ARG:HH21	13:M5:1003:CYC:CBC	1.94	0.80
2:F5:62:GLN:OE1	3:G7:72:GLY:N	2.12	0.80
2:U6:31:ARG:NH2	3:V6:6:PHE:CZ	2.49	0.80
3:X6:58:ARG:NH2	2:Y6:73:PRO:CG	2.43	0.80
3:I7:58:ARG:CZ	2:J7:73:PRO:CB	2.59	0.80
8:F8:78:ARG:NE	13:F8:1001:CYC:O1D	2.11	0.80
4:NA:47:ASP:OD1	13:PA:201:CYC:O1A	1.99	0.80
3:X2:38:ARG:HG2	3:X2:157:LEU:CD2	2.12	0.80
3:X2:44:ARG:NH2	3:X2:149:ILE:HG13	1.96	0.80
3:E4:40:ASP:OD2	13:E4:202:CYC:ND	2.15	0.80
13:E5:201:CYC:HHA	13:E5:201:CYC:CBD	2.12	0.80
2:J5:31:ARG:NH1	2:J5:103:GLY:HA2	1.97	0.80
2:L6:31:ARG:O	2:L6:31:ARG:HD3	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W6:31:ARG:NH1	2:W6:103:GLY:HA3	1.97	0.80
5:AA:60:GLU:CG	5:AA:65:ASN:ND2	2.42	0.80
1:A1:168:ARG:NH2	1:A1:172:LEU:HD22	1.95	0.80
3:I1:126:SER:HB3	3:T1:71:GLY:O	1.80	0.80
2:U2:31:ARG:NH2	3:V2:6:PHE:CZ	2.49	0.80
13:C6:202:CYC:HHA	13:C6:202:CYC:CBD	2.12	0.80
3:P6:68:ILE:HD12	13:Q6:201:CYC:O1A	1.80	0.80
2:Q6:31:ARG:NH2	2:Q6:35:ALA:HB1	1.92	0.80
2:S6:34:ARG:HH22	2:S6:146:GLN:NE2	1.79	0.80
2:L7:73:PRO:O	13:L7:201:CYC:HBD2	1.81	0.80
8:I8:78:ARG:NE	13:I8:1001:CYC:O1D	2.11	0.80
8:s8:109:VAL:CG1	13:s8:1001:CYC:HAB1	2.11	0.80
7:C9:81:CYS:SG	13:C9:1001:CYC:CBC	2.69	0.80
7:K9:81:CYS:SG	13:K9:1001:CYC:CBC	2.69	0.80
7:k9:81:CYS:SG	13:k9:1001:CYC:CBC	2.69	0.80
2:FA:34:ARG:HH21	13:MA:1003:CYC:CBC	1.94	0.80
3:GA:36:ASN:HD21	13:GA:1002:CYC:HAA2	1.46	0.80
3:IA:154:CYS:SG	13:IA:202:CYC:HAB1	2.21	0.80
3:ZA:87:MET:HE3	13:ZA:201:CYC:HBC3	1.60	0.80
1:A1:168:ARG:CB	1:A1:173:VAL:CG2	2.58	0.80
2:B1:86:ALA:CB	8:d8:26:GLU:CG	2.59	0.80
5:A2:223:ALA:CB	7:X9:78:THR:HG23	2.10	0.80
13:K2:202:CYC:HHA	13:K2:202:CYC:CBD	2.12	0.80
13:A5:303:CYC:HBB1	3:G5:93:TYR:CE2	2.16	0.80
2:H5:71:PRO:HB2	3:G7:63:GLU:OE2	1.81	0.80
3:E6:68:ILE:CD1	13:F6:1001:CYC:O1A	2.29	0.80
13:G7:202:CYC:HHA	13:G7:202:CYC:CBD	2.12	0.80
8:B8:78:ARG:NE	13:B8:1001:CYC:O1D	2.11	0.80
7:X8:13:ALA:CB	10:19:958:ARG:HH21	1.94	0.80
8:Y8:78:ARG:NE	13:Y8:1001:CYC:O1D	2.11	0.80
8:u8:109:VAL:CG1	13:19:1201:CYC:HAB1	2.11	0.80
7:Z9:81:CYS:SG	13:Z9:1001:CYC:CBC	2.69	0.80
7:s9:81:CYS:SG	13:s9:1001:CYC:CBC	2.69	0.80
2:UA:28:ALA:O	2:UA:32:TYR:CD2	2.35	0.80
2:W1:85:CYS:HA	13:W1:1001:CYC:HAC2	1.64	0.80
2:W2:31:ARG:NH1	2:W2:103:GLY:HA3	1.96	0.80
3:E3:58:ARG:NH1	13:F3:1001:CYC:O2D	2.13	0.80
1:A4:207:ILE:HD13	7:V8:66:VAL:CB	2.11	0.80
13:K4:201:CYC:HHA	13:K4:201:CYC:CBD	2.12	0.80
13:M4:202:CYC:HHA	13:M4:202:CYC:CBD	2.12	0.80
3:R4:83:CYS:HB2	13:R4:1001:CYC:HMD3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A5:304:CYC:HBB1	3:K5:60:LEU:HD21	1.63	0.80
2:O5:34:ARG:NH2	2:O5:150:GLU:OE2	2.15	0.80
3:P5:40:ASP:OD1	13:P5:202:CYC:HHB	1.81	0.80
3:C6:154:CYS:CB	13:C6:202:CYC:CBC	2.60	0.80
2:L6:73:PRO:O	13:L6:201:CYC:HBD2	1.81	0.80
8:B8:109:VAL:CG1	13:B8:1001:CYC:HAB1	2.11	0.80
13:AA:303:CYC:HBB1	3:GA:93:TYR:CE2	2.16	0.80
1:A1:195:ILE:HD13	7:c8:80:THR:HG21	0.80	0.80
1:A1:195:ILE:CB	7:c8:80:THR:HG22	2.12	0.80
13:T1:201:CYC:HHA	13:T1:201:CYC:CBD	2.12	0.80
3:E2:68:ILE:CD1	13:F2:1001:CYC:O1A	2.29	0.80
13:I2:202:CYC:HHA	13:I2:202:CYC:CBD	2.12	0.80
13:A3:301:CYC:CAC	3:C3:83:CYS:HB2	2.06	0.80
1:A4:195:ILE:CB	7:V8:80:THR:CG2	2.57	0.80
3:K4:121:LEU:CG	13:K4:201:CYC:O2D	2.29	0.80
2:O4:85:CYS:CB	13:O4:1001:CYC:HAC2	2.10	0.80
5:A5:234:GLN:HB2	7:A9:66:VAL:HG12	1.64	0.80
13:M5:1003:CYC:HHA	13:M5:1003:CYC:CBD	2.12	0.80
5:A6:202:TYR:CZ	7:N9:48:GLU:HG3	2.16	0.80
3:T6:157:LEU:O	3:T6:161:VAL:HG23	1.81	0.80
13:K7:201:CYC:HHA	13:K7:201:CYC:CBD	2.12	0.80
8:K8:109:VAL:CG1	13:K8:1001:CYC:HAB1	2.11	0.80
8:P8:111:ASN:HD21	9:U8:57:ALA:HB1	1.47	0.80
7:I9:81:CYS:SG	13:I9:1001:CYC:CBC	2.69	0.80
3:TA:114:LEU:HD13	13:TA:201:CYC:HBC1	1.64	0.80
3:XA:87:MET:CE	13:XA:201:CYC:CBC	2.59	0.80
2:J1:85:CYS:SG	13:J1:1001:CYC:H2C	2.20	0.80
3:K1:154:CYS:SG	13:K1:202:CYC:HAB2	2.19	0.80
3:K1:154:CYS:HG	13:K1:202:CYC:HAB1	1.46	0.80
13:K1:201:CYC:HHA	13:K1:201:CYC:CBD	2.12	0.80
13:V1:201:CYC:HHA	13:V1:201:CYC:CBD	2.12	0.80
3:X1:77:ASN:HD21	2:Y1:116:LEU:HA	1.46	0.80
3:V2:34:GLU:OE2	3:V2:157:LEU:HD21	1.80	0.80
13:G3:202:CYC:HHA	13:G3:202:CYC:CBD	2.12	0.80
1:A4:194:ASP:O	7:V8:83:ARG:CD	2.24	0.80
2:L4:29:ARG:HD3	13:M4:202:CYC:OC	1.82	0.80
4:N5:62:LEU:HD21	4:N5:72:PHE:CB	2.10	0.80
5:A6:228:ASN:HB3	7:I9:59:PHE:HB3	1.63	0.80
8:M8:109:VAL:CG1	13:M8:1001:CYC:HAB1	2.11	0.80
9:U8:43:ARG:HD3	10:09:851:ASN:ND2	1.70	0.80
7:b9:81:CYS:SG	13:b9:1001:CYC:CBC	2.69	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:w9:86:ASP:CB	5:AA:219:PHE:HZ	1.90	0.80
3:K1:157:LEU:O	3:K1:157:LEU:HD23	1.82	0.80
13:K1:202:CYC:HHA	13:K1:202:CYC:CBD	2.12	0.80
3:P1:68:ILE:CD1	13:Q1:201:CYC:CGA	2.56	0.80
3:Z1:83:CYS:SG	13:Z1:202:CYC:H2C	2.21	0.80
13:C2:202:CYC:HHA	13:C2:202:CYC:CBD	2.12	0.80
13:K3:202:CYC:HHA	13:K3:202:CYC:CBD	2.12	0.80
1:A4:201:LEU:CB	7:V8:52:LYS:HE2	2.12	0.80
3:X4:77:ASN:HD21	2:Y4:116:LEU:HA	1.46	0.80
13:X4:202:CYC:HHA	13:X4:202:CYC:CBD	2.12	0.80
2:B5:35:ALA:HB1	3:C5:32:VAL:CG1	2.12	0.80
2:S5:34:ARG:HD3	2:S5:150:GLU:OE2	1.82	0.80
3:T5:114:LEU:HD13	13:T5:201:CYC:HBC1	1.64	0.80
13:V6:201:CYC:HHA	13:V6:201:CYC:CBD	2.12	0.80
13:I7:202:CYC:HHA	13:I7:202:CYC:CBD	2.12	0.80
7:c8:13:ALA:HA	10:09:996:ARG:NH1	1.94	0.80
7:P9:81:CYS:SG	13:P9:1001:CYC:CBC	2.69	0.80
7:T9:81:CYS:SG	13:T9:1001:CYC:CBC	2.69	0.80
7:q9:81:CYS:SG	13:q9:1001:CYC:CBC	2.69	0.80
13:AA:304:CYC:HBB1	3:KA:60:LEU:HD21	1.63	0.80
13:CA:201:CYC:HHA	13:CA:201:CYC:CBD	2.12	0.80
3:EA:154:CYS:SG	13:EA:201:CYC:HBC2	2.22	0.80
3:GA:36:ASN:ND2	13:GA:1002:CYC:O2D	2.15	0.80
4:NA:115:VAL:HA	13:NA:301:CYC:O2A	1.81	0.80
3:K1:126:SER:CB	3:T1:12:GLN:NE2	2.44	0.79
2:O1:119:ILE:CD1	13:O1:1001:CYC:CMA	2.60	0.79
3:P2:89:ILE:CG2	13:P2:201:CYC:CBB	2.55	0.79
3:X2:38:ARG:HH22	3:X2:101:GLY:HA2	1.46	0.79
3:K4:157:LEU:O	3:K4:157:LEU:HD23	1.82	0.79
3:V4:36:ASN:CG	13:V4:201:CYC:C2D	2.55	0.79
5:A5:213:GLU:OE1	8:r9:17:GLY:HA3	1.82	0.79
2:O6:34:ARG:CZ	13:X6:202:CYC:H2C	2.11	0.79
13:Z6:201:CYC:HHA	13:Z6:201:CYC:CBD	2.12	0.79
6:A7:103:TYR:OH	3:C7:117:THR:HG21	1.83	0.79
13:E7:202:CYC:HHA	13:E7:202:CYC:CBD	2.12	0.79
9:b8:24:GLN:CG	10:19:963:THR:HA	2.12	0.79
8:q8:109:VAL:CG1	13:q8:1001:CYC:HAB1	2.11	0.79
7:u9:81:CYS:SG	13:u9:1001:CYC:CBC	2.69	0.79
3:R1:83:CYS:HB2	13:R1:1001:CYC:HMD3	1.63	0.79
3:V1:36:ASN:CG	13:V1:201:CYC:C2D	2.55	0.79
3:K2:43:ASN:HB2	13:K2:202:CYC:HBC3	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C3:201:CYC:HHA	13:C3:201:CYC:CBD	2.12	0.79
2:J3:85:CYS:HA	13:J3:1001:CYC:HAC2	1.65	0.79
3:M4:40:ASP:OD2	13:M4:202:CYC:C4A	2.29	0.79
13:Z4:201:CYC:HHA	13:Z4:201:CYC:CBD	2.12	0.79
5:A5:201:PHE:CD2	7:u9:76:GLU:CG	2.57	0.79
3:G5:154:CYS:CB	13:G5:201:CYC:HAC2	2.12	0.79
3:I5:154:CYS:SG	13:I5:202:CYC:C2B	2.70	0.79
3:X5:93:TYR:CE2	13:X5:201:CYC:CBB	2.51	0.79
13:T6:201:CYC:HHA	13:T6:201:CYC:CBD	2.12	0.79
13:C7:201:CYC:HHA	13:C7:201:CYC:CBD	2.12	0.79
13:B8:1001:CYC:HMA1	10:09:572:ILE:CG2	2.11	0.79
8:d8:78:ARG:NE	13:d8:1001:CYC:O1D	2.11	0.79
10:09:19:THR:OG1	10:09:22:VAL:HG12	1.83	0.79
13:KA:201:CYC:HHA	13:KA:201:CYC:CBD	2.12	0.79
1:A1:201:LEU:CD2	7:c8:82:LEU:HD13	2.12	0.79
3:P1:127:SER:CB	13:P1:201:CYC:HMC2	2.06	0.79
3:G2:87:MET:CE	13:G2:202:CYC:HBC1	2.13	0.79
2:S2:34:ARG:HH22	2:S2:146:GLN:NE2	1.79	0.79
6:A3:93:ARG:NH1	6:A3:137:HIS:NE2	2.31	0.79
3:G3:87:MET:CE	13:G3:201:CYC:HBC1	2.13	0.79
13:I4:202:CYC:HHA	13:I4:202:CYC:CBD	2.12	0.79
13:K4:202:CYC:HHA	13:K4:202:CYC:CBD	2.12	0.79
13:K6:201:CYC:HHA	13:K6:201:CYC:CBD	2.12	0.79
3:V6:44:ARG:HH21	3:V6:149:ILE:HG12	1.44	0.79
3:X6:44:ARG:NH2	3:X6:149:ILE:HG13	1.96	0.79
2:B7:34:ARG:NH1	13:K7:202:CYC:H2C	1.98	0.79
13:H7:1001:CYC:CGD	3:M7:58:ARG:HH12	1.96	0.79
7:j8:126:VAL:N	13:j8:1001:CYC:HMC1	1.98	0.79
7:n8:126:VAL:N	13:n8:1001:CYC:HMC1	1.98	0.79
5:AA:15:HIS:HE1	5:AA:121:TYR:CE2	2.00	0.79
2:OA:34:ARG:NH2	2:OA:150:GLU:OE2	2.15	0.79
3:ZA:87:MET:HE3	13:ZA:201:CYC:HBC1	1.63	0.79
3:G1:154:CYS:SG	13:G1:201:CYC:CMC	2.71	0.79
2:D3:31:ARG:NH1	2:D3:103:GLY:N	2.30	0.79
3:E3:87:MET:HE2	13:E3:201:CYC:HBC1	1.64	0.79
3:I3:58:ARG:CZ	2:J3:73:PRO:CB	2.59	0.79
1:A4:207:ILE:HD11	7:V8:59:PHE:CD2	2.18	0.79
5:A5:52:TYR:OH	5:A5:71:GLU:OE2	2.00	0.79
4:N5:47:ASP:OD1	13:P5:201:CYC:O1A	1.99	0.79
5:A6:103:ASN:ND2	3:C6:112:ASN:ND2	2.30	0.79
3:C7:154:CYS:CB	13:C7:201:CYC:CBC	2.60	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E7:87:MET:HE2	13:E7:201:CYC:HBC1	1.64	0.79
13:M7:201:CYC:HHA	13:M7:201:CYC:CBD	2.12	0.79
7:H8:126:VAL:N	13:H8:1001:CYC:HMC1	1.98	0.79
7:S8:126:VAL:N	13:S8:1001:CYC:HMC1	1.98	0.79
7:l8:126:VAL:N	13:l8:1001:CYC:HMC1	1.98	0.79
7:p8:126:VAL:N	13:p8:1001:CYC:HMC1	1.98	0.79
7:r8:126:VAL:N	13:r8:1001:CYC:HMC1	1.98	0.79
13:G1:201:CYC:HHA	13:G1:201:CYC:CBD	2.12	0.79
13:E2:202:CYC:HHA	13:E2:202:CYC:CBD	2.12	0.79
13:G2:201:CYC:HHA	13:G2:201:CYC:CBD	2.12	0.79
3:C3:154:CYS:CB	13:C3:201:CYC:CBC	2.60	0.79
3:E4:68:ILE:HD13	13:F4:1001:CYC:O1A	1.82	0.79
5:A5:17:VAL:HG11	3:E5:85:ARG:NH1	1.96	0.79
13:C5:201:CYC:HHA	13:C5:201:CYC:CBD	2.12	0.79
3:M5:83:CYS:SG	13:M5:1002:CYC:HAC2	2.23	0.79
13:Z5:202:CYC:HHA	13:Z5:202:CYC:CBD	2.12	0.79
5:A6:60:GLU:O	5:A6:62:LEU:CD1	2.29	0.79
2:U6:22:ASN:O	2:U6:26:GLN:HG3	1.81	0.79
7:Q8:126:VAL:N	13:Q8:1001:CYC:HMC1	1.98	0.79
7:X8:13:ALA:HB2	10:19:958:ARG:NH2	1.94	0.79
7:d9:81:CYS:SG	13:d9:1001:CYC:CBC	2.69	0.79
3:GA:154:CYS:CB	13:GA:1002:CYC:HAC2	2.12	0.79
13:PA:202:CYC:HHA	13:PA:202:CYC:CBD	2.12	0.79
5:A2:39:SER:HG	3:M2:2:THR:N	1.81	0.79
5:A2:103:ASN:ND2	3:C2:112:ASN:ND2	2.30	0.79
3:C2:114:LEU:HD23	3:C2:172:VAL:HG22	1.65	0.79
13:K2:201:CYC:HHA	13:K2:201:CYC:CBD	2.12	0.79
3:T2:157:LEU:O	3:T2:161:VAL:HG23	1.81	0.79
13:T2:201:CYC:HHA	13:T2:201:CYC:CBD	2.12	0.79
2:J4:119:ILE:HD11	13:J4:1001:CYC:HAA1	1.65	0.79
5:A5:15:HIS:HE1	5:A5:121:TYR:CE2	2.00	0.79
3:G5:36:ASN:ND2	13:G5:201:CYC:O2D	2.15	0.79
13:K5:201:CYC:HHA	13:K5:201:CYC:CBD	2.12	0.79
2:U5:28:ALA:O	2:U5:32:TYR:CD2	2.35	0.79
5:A6:191:GLN:HA	7:N9:75:GLN:HE21	1.45	0.79
2:D6:31:ARG:NH1	2:D6:103:GLY:N	2.30	0.79
13:G6:201:CYC:HHA	13:G6:201:CYC:CBD	2.12	0.79
3:T6:37:LYS:HB2	3:T6:157:LEU:HD11	1.65	0.79
13:W6:201:CYC:HHA	13:W6:201:CYC:CBD	2.12	0.79
6:A7:71:GLN:NE2	13:K7:201:CYC:OC	2.15	0.79
2:H7:73:PRO:HB2	3:M7:58:ARG:HH22	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I7:41:VAL:CG2	13:I7:202:CYC:HMB2	2.12	0.79
13:K7:202:CYC:HHA	13:K7:202:CYC:CBD	2.12	0.79
7:A8:126:VAL:N	13:A8:1001:CYC:HMC1	1.98	0.79
10:19:954:ARG:NH2	10:19:955:LYS:CB	2.46	0.79
13:IA:202:CYC:HHA	13:IA:202:CYC:CBD	2.12	0.79
2:L1:51:ARG:NH1	3:C3:148:GLY:CA	2.45	0.79
3:T1:36:ASN:ND2	13:T1:201:CYC:HAA2	1.97	0.79
3:X1:83:CYS:CB	13:X1:201:CYC:CAC	2.53	0.79
3:C2:87:MET:HE1	13:C2:201:CYC:CBC	2.07	0.79
2:J2:85:CYS:HA	13:J2:1001:CYC:HAC2	1.64	0.79
13:K2:202:CYC:HMA2	13:K2:202:CYC:CGA	2.13	0.79
6:A3:64:ARG:HG2	6:A3:64:ARG:NH2	1.96	0.79
13:I3:202:CYC:HHA	13:I3:202:CYC:CBD	2.12	0.79
13:K3:201:CYC:HHA	13:K3:201:CYC:CBD	2.12	0.79
3:P4:76:THR:CG2	3:P4:79:ARG:HE	1.95	0.79
13:Q4:202:CYC:HHA	13:Q4:202:CYC:CBD	2.12	0.79
3:T4:127:SER:HB2	13:T4:202:CYC:HBB3	1.63	0.79
2:W4:85:CYS:HA	13:W4:1001:CYC:HAC2	1.64	0.79
5:A6:197:THR:HG22	7:N9:75:GLN:HG2	1.65	0.79
2:H6:73:PRO:HB2	3:M6:58:ARG:HH22	1.46	0.79
13:U6:201:CYC:HHA	13:U6:201:CYC:CBD	2.12	0.79
3:Z6:38:ARG:HG2	3:Z6:157:LEU:HD21	1.63	0.79
7:O8:82:LEU:HD12	5:AA:241:ILE:CG2	2.12	0.79
13:s8:1001:CYC:O2D	10:19:948:GLY:C	2.24	0.79
5:AA:52:TYR:OH	5:AA:71:GLU:OE2	2.00	0.79
13:EA:201:CYC:HHA	13:EA:201:CYC:CBD	2.12	0.79
3:K1:144:ASN:O	13:K1:202:CYC:HBB1	1.82	0.79
13:M1:202:CYC:HHA	13:M1:202:CYC:CBD	2.12	0.79
3:C2:154:CYS:HG	13:C2:202:CYC:HAC2	1.46	0.79
3:G2:152:GLY:HA3	13:G2:201:CYC:HMD1	1.62	0.79
4:N2:10:LEU:HB2	4:N2:12:THR:HG23	1.64	0.79
2:O2:30:GLY:HA3	2:W2:30:GLY:HA3	1.65	0.79
13:E3:202:CYC:HHA	13:E3:202:CYC:CBD	2.12	0.79
13:M3:201:CYC:HHA	13:M3:201:CYC:CBD	2.12	0.79
1:A4:193:GLY:HA3	7:V8:87:TYR:OH	1.83	0.79
13:C4:302:CYC:HHA	13:C4:302:CYC:CBD	2.12	0.79
13:V4:201:CYC:CGA	13:V4:201:CYC:HMA2	2.13	0.79
13:X4:202:CYC:CGA	13:X4:202:CYC:HMA2	2.13	0.79
2:U5:35:ALA:O	2:U5:39:LEU:HG	1.82	0.79
13:X5:202:CYC:HHA	13:X5:202:CYC:CBD	2.12	0.79
13:E6:202:CYC:HHA	13:E6:202:CYC:CBD	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C7:114:LEU:HD23	3:C7:172:VAL:HG22	1.65	0.79
2:H7:31:ARG:HD3	2:H7:31:ARG:C	2.07	0.79
7:O8:126:VAL:N	13:O8:1001:CYC:HMC1	1.98	0.79
7:X8:126:VAL:N	13:X8:1001:CYC:HMC1	1.98	0.79
3:IA:154:CYS:SG	13:IA:202:CYC:C2B	2.70	0.79
13:MA:1003:CYC:HHA	13:MA:1003:CYC:CBD	2.12	0.79
13:VA:202:CYC:HMA2	13:VA:202:CYC:CGA	2.13	0.79
3:XA:87:MET:HE3	13:XA:201:CYC:HBC3	1.65	0.79
3:C1:16:ARG:O	8:d8:18:LYS:HE2	1.81	0.79
13:E1:202:CYC:HHA	13:E1:202:CYC:CBD	2.12	0.79
3:M1:127:SER:HB3	13:M1:201:CYC:HMC2	1.65	0.79
3:P1:76:THR:CG2	3:P1:79:ARG:HE	1.95	0.79
3:T1:76:THR:HG23	3:T1:79:ARG:HG3	1.65	0.79
13:X1:202:CYC:HMA2	13:X1:202:CYC:CGA	2.13	0.79
3:K2:83:CYS:CB	13:K2:201:CYC:HMB3	2.10	0.79
13:V2:201:CYC:HHA	13:V2:201:CYC:CBD	2.12	0.79
6:A3:103:TYR:OH	3:C3:117:THR:HG21	1.83	0.79
3:E3:87:MET:HE1	13:E3:201:CYC:HBC2	1.65	0.79
13:G4:201:CYC:CGA	13:G4:201:CYC:HMA2	2.13	0.79
13:K4:202:CYC:HMA2	13:K4:202:CYC:CGA	2.13	0.79
3:E5:154:CYS:SG	13:E5:201:CYC:HBC2	2.22	0.79
13:I5:202:CYC:HHA	13:I5:202:CYC:CBD	2.12	0.79
13:R5:201:CYC:HAB2	2:U5:34:ARG:NE	1.97	0.79
3:M6:44:ARG:NH2	3:M6:149:ILE:HG12	1.98	0.79
3:R6:87:MET:HE1	13:R6:1001:CYC:HBC3	1.59	0.79
3:Z6:151:LYS:CA	13:Z6:201:CYC:OB	2.31	0.79
2:D7:31:ARG:NH1	2:D7:103:GLY:N	2.30	0.79
7:L8:126:VAL:N	13:L8:1001:CYC:HMC1	1.98	0.79
8:a8:78:ARG:NE	13:b8:1001:CYC:O1D	2.11	0.79
8:f8:88:TYR:OH	9:i8:21:ARG:CA	2.29	0.79
8:q8:78:ARG:NE	13:q8:1001:CYC:O1D	2.11	0.79
3:E1:68:ILE:HD13	13:F1:1001:CYC:O1A	1.83	0.79
3:P1:127:SER:HB3	13:P1:201:CYC:HMC1	1.65	0.79
3:C2:154:CYS:CB	13:C2:202:CYC:CBC	2.60	0.79
3:K2:60:LEU:CD2	13:K2:201:CYC:HBB1	2.13	0.79
13:M2:201:CYC:HHA	13:M2:201:CYC:CBD	2.12	0.79
3:T4:36:ASN:ND2	13:T4:201:CYC:HAA2	1.97	0.79
13:V5:202:CYC:HHA	13:V5:202:CYC:CBD	2.12	0.79
3:C6:152:GLY:HA3	13:C6:202:CYC:HMD2	1.64	0.79
13:K6:201:CYC:HMA2	13:K6:201:CYC:CGA	2.13	0.79
4:N6:154:PHE:HE1	4:N6:172:TYR:HH	1.25	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K8:78:ARG:NE	13:K8:1001:CYC:O1D	2.11	0.79
2:BA:35:ALA:HB1	3:CA:32:VAL:CG1	2.11	0.79
13:RA:201:CYC:HMA2	13:RA:201:CYC:CGA	2.13	0.79
2:UA:35:ALA:O	2:UA:39:LEU:HG	1.82	0.79
1:A1:104:ARG:HH22	1:A1:175:PRO:HG2	1.48	0.78
2:L1:29:ARG:HD3	13:M1:202:CYC:OC	1.82	0.78
3:T1:152:GLY:CA	13:T1:201:CYC:CMD	2.61	0.78
5:A2:191:GLN:HA	7:d9:75:GLN:HE21	1.48	0.78
5:A2:234:GLN:NE2	7:J8:73:TYR:CD1	2.51	0.78
3:G2:34:GLU:OE2	3:G2:157:LEU:HD22	1.82	0.78
13:K2:201:CYC:CGA	13:K2:201:CYC:HMA2	2.13	0.78
2:S2:32:TYR:HE1	3:T2:35:GLY:HA3	1.39	0.78
2:U2:22:ASN:O	2:U2:26:GLN:HG3	1.81	0.78
3:V2:150:THR:CB	13:V2:201:CYC:HAA2	2.14	0.78
2:B3:30:GLY:CA	2:J3:30:GLY:CA	2.61	0.78
13:K3:202:CYC:HMA2	13:K3:202:CYC:CGA	2.13	0.78
3:M4:127:SER:HB3	13:M4:201:CYC:HMC2	1.65	0.78
3:T4:152:GLY:CA	13:T4:201:CYC:CMD	2.61	0.78
13:T4:201:CYC:HHA	13:T4:201:CYC:CBD	2.12	0.78
13:E5:201:CYC:HMA2	13:E5:201:CYC:CGA	2.13	0.78
3:E6:87:MET:HE2	13:E6:201:CYC:HBC1	1.64	0.78
13:I6:202:CYC:HHA	13:I6:202:CYC:CBD	2.12	0.78
13:I6:202:CYC:CGA	13:I6:202:CYC:HMA2	2.13	0.78
13:M6:201:CYC:HHA	13:M6:201:CYC:CBD	2.12	0.78
13:Z6:201:CYC:CGA	13:Z6:201:CYC:HMA2	2.13	0.78
2:B7:30:GLY:CA	2:J7:30:GLY:CA	2.61	0.78
3:G7:87:MET:CE	13:G7:201:CYC:HBC1	2.13	0.78
8:u8:119:SER:HB2	10:19:1114:LYS:HE3	1.26	0.78
13:CA:201:CYC:CGA	13:CA:201:CYC:HMA2	2.13	0.78
3:EA:150:THR:O	13:EA:201:CYC:HMD2	1.83	0.78
2:JA:31:ARG:NH1	2:JA:103:GLY:HA2	1.97	0.78
13:XA:202:CYC:HHA	13:XA:202:CYC:CBD	2.12	0.78
13:ZA:202:CYC:HHA	13:ZA:202:CYC:CBD	2.12	0.78
13:I1:202:CYC:HMA2	13:I1:202:CYC:CGA	2.13	0.78
13:K1:202:CYC:HMA2	13:K1:202:CYC:CGA	2.13	0.78
3:C2:83:CYS:HB3	13:C2:201:CYC:HAC2	1.64	0.78
13:G2:201:CYC:CGA	13:G2:201:CYC:HMA2	2.13	0.78
13:I2:202:CYC:CGA	13:I2:202:CYC:HMA2	2.13	0.78
13:M2:201:CYC:HMA2	13:M2:201:CYC:CGA	2.13	0.78
13:W2:203:CYC:HHA	13:W2:203:CYC:CBD	2.12	0.78
3:Z2:38:ARG:HG2	3:Z2:157:LEU:HD21	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:H3:1001:CYC:CGD	3:M3:58:ARG:HH12	1.96	0.78
3:I3:41:VAL:CG2	13:I3:202:CYC:HMB2	2.12	0.78
1:A4:198:PHE:CZ	7:V8:86:ASP:HB2	2.17	0.78
13:E4:202:CYC:HHA	13:E4:202:CYC:CBD	2.12	0.78
4:N4:156:THR:CA	4:N4:157:GLN:OE1	2.31	0.78
2:D5:34:ARG:NE	13:I5:202:CYC:H2C	1.98	0.78
13:G5:201:CYC:HHA	13:G5:201:CYC:CBD	2.12	0.78
2:W5:34:ARG:HA	2:W5:34:ARG:NE	1.98	0.78
13:Z5:202:CYC:HMA2	13:Z5:202:CYC:CGA	2.13	0.78
2:B6:34:ARG:NH1	13:K6:202:CYC:H2C	1.98	0.78
3:K7:60:LEU:CD2	13:K7:201:CYC:HBB1	2.13	0.78
7:J8:126:VAL:N	13:J8:1001:CYC:HMC1	1.98	0.78
8:M8:78:ARG:NE	13:M8:1001:CYC:O1D	2.11	0.78
8:k8:78:ARG:NE	13:k8:1001:CYC:O1D	2.11	0.78
13:GA:1002:CYC:HHA	13:GA:1002:CYC:CBD	2.12	0.78
3:MA:16:ARG:HG2	3:RA:66:GLN:HE22	1.47	0.78
3:PA:40:ASP:OD1	13:PA:202:CYC:HHB	1.81	0.78
13:C1:302:CYC:HHA	13:C1:302:CYC:CBD	2.12	0.78
13:G1:201:CYC:CGA	13:G1:201:CYC:HMA2	2.13	0.78
4:N1:155:GLU:N	4:N1:157:GLN:HE22	1.82	0.78
13:Z1:201:CYC:HHA	13:Z1:201:CYC:CBD	2.12	0.78
2:B2:34:ARG:NH1	13:K2:202:CYC:H2C	1.98	0.78
13:E2:202:CYC:HMA2	13:E2:202:CYC:CGA	2.14	0.78
13:T2:201:CYC:HMA2	13:T2:201:CYC:CGA	2.13	0.78
3:Z2:151:LYS:CA	13:Z2:201:CYC:OB	2.31	0.78
6:A3:96:VAL:HG12	6:A3:105:LEU:HD22	1.66	0.78
3:C3:114:LEU:HD23	3:C3:172:VAL:HG22	1.65	0.78
3:K3:60:LEU:CD2	13:K3:201:CYC:HBB1	2.13	0.78
13:G4:201:CYC:HHA	13:G4:201:CYC:CBD	2.12	0.78
2:B5:31:ARG:NH1	2:B5:103:GLY:HA3	1.96	0.78
13:T5:202:CYC:HHA	13:T5:202:CYC:CBD	2.12	0.78
3:Z5:87:MET:HE3	13:Z5:201:CYC:HBC1	1.63	0.78
3:G6:87:MET:CE	13:G6:202:CYC:HBC1	2.13	0.78
2:H6:119:ILE:CD1	13:H6:1001:CYC:CMA	2.62	0.78
4:N6:41:ARG:HG2	4:N6:46:ASN:OD1	1.84	0.78
2:Q6:119:ILE:CD1	13:Q6:201:CYC:HMA1	2.14	0.78
3:R6:121:LEU:HD11	13:R6:1001:CYC:C2A	2.12	0.78
13:W6:201:CYC:HMA2	13:W6:201:CYC:CGA	2.14	0.78
13:X6:202:CYC:HHA	13:X6:202:CYC:CBD	2.12	0.78
13:C7:201:CYC:HMA2	13:C7:201:CYC:CGA	2.14	0.78
7:J8:53:GLN:NE2	7:n8:56:ASP:OD1	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z8:126:VAL:N	13:Z8:1001:CYC:HMC1	1.98	0.78
8:o8:115:GLU:CA	10:09:1114:LYS:HZ1	1.95	0.78
7:p8:13:ALA:O	10:19:1066:GLY:HA3	1.84	0.78
13:09:1203:CYC:O2A	8:M9:84:ARG:NH1	2.17	0.78
13:19:1205:CYC:O2A	8:h9:84:ARG:NH1	2.17	0.78
8:B9:84:ARG:NH1	13:B9:1001:CYC:O2A	2.17	0.78
8:x9:84:ARG:NH1	13:x9:1001:CYC:O2A	2.17	0.78
13:EA:201:CYC:HMA2	13:EA:201:CYC:CGA	2.13	0.78
3:MA:83:CYS:SG	13:MA:1002:CYC:HAC2	2.23	0.78
13:RA:201:CYC:HAB2	2:UA:34:ARG:NE	1.97	0.78
13:Z1:201:CYC:HMA2	13:Z1:201:CYC:CGA	2.13	0.78
5:A2:40:SER:HG	3:M2:2:THR:N	1.81	0.78
2:B2:31:ARG:HH11	2:B2:103:GLY:N	1.82	0.78
3:E2:87:MET:HE1	13:E2:201:CYC:HBC2	1.65	0.78
3:E2:87:MET:HE2	13:E2:201:CYC:HBC1	1.64	0.78
2:F2:31:ARG:NH1	3:G2:6:PHE:CG	2.52	0.78
2:B3:31:ARG:HH11	2:B3:103:GLY:N	1.82	0.78
2:H4:119:ILE:CD1	13:H4:1001:CYC:HMA1	2.13	0.78
13:K4:201:CYC:CGA	13:K4:201:CYC:HMA2	2.13	0.78
13:Q4:202:CYC:CGA	13:Q4:202:CYC:HMA2	2.14	0.78
5:A5:205:LYS:HZ3	8:z9:63:TYR:HB3	1.31	0.78
2:F6:31:ARG:NH1	3:G6:6:PHE:CG	2.52	0.78
13:H6:1001:CYC:CGD	3:M6:58:ARG:HH12	1.96	0.78
3:I6:41:VAL:CG2	13:I6:202:CYC:HMB2	2.12	0.78
2:O6:30:GLY:HA3	2:W6:30:GLY:HA3	1.65	0.78
3:P6:68:ILE:CD1	13:Q6:201:CYC:O1A	2.31	0.78
6:A7:93:ARG:NH1	6:A7:137:HIS:NE2	2.31	0.78
13:I7:202:CYC:CGA	13:I7:202:CYC:HMA2	2.14	0.78
8:D8:11:ASN:OD1	10:09:537:SER:C	2.27	0.78
7:e8:126:VAL:N	13:e8:1001:CYC:HMC1	1.98	0.78
8:L9:84:ARG:NH1	13:L9:1001:CYC:O2A	2.17	0.78
8:e9:84:ARG:NH1	13:e9:1001:CYC:O2A	2.17	0.78
13:KA:201:CYC:CGA	13:KA:201:CYC:HMA2	2.13	0.78
2:WA:34:ARG:NE	2:WA:34:ARG:HA	1.98	0.78
3:I1:128:VAL:HG23	13:I1:201:CYC:HMC3	1.65	0.78
3:T1:127:SER:HB2	13:T1:202:CYC:HBB3	1.63	0.78
13:V1:201:CYC:HMA2	13:V1:201:CYC:CGA	2.13	0.78
13:W2:201:CYC:HHA	13:W2:201:CYC:CBD	2.12	0.78
13:W2:203:CYC:CGA	13:W2:203:CYC:HMA2	2.13	0.78
2:D4:85:CYS:SG	13:D4:1001:CYC:CAC	2.72	0.78
2:O4:119:ILE:CD1	13:O4:1001:CYC:CMA	2.60	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:T5:202:CYC:CGA	13:T5:202:CYC:HMA2	2.14	0.78
13:C6:202:CYC:HMA2	13:C6:202:CYC:CGA	2.14	0.78
13:M6:201:CYC:HMA2	13:M6:201:CYC:CGA	2.13	0.78
4:N6:10:LEU:HB2	4:N6:12:THR:HG23	1.64	0.78
2:W6:119:ILE:CD1	13:W6:202:CYC:HMA3	2.13	0.78
13:E7:202:CYC:CGA	13:E7:202:CYC:HMA2	2.14	0.78
3:G7:34:GLU:OE2	3:G7:157:LEU:HD22	1.82	0.78
8:D8:3:GLN:HE22	10:09:528:ILE:HD11	1.48	0.78
7:X8:25:ARG:HD2	7:t8:25:ARG:HD2	1.65	0.78
7:n8:110:ILE:HD11	10:09:954:ARG:HH21	1.44	0.78
8:o8:15:VAL:CG1	10:09:941:ARG:C	2.53	0.78
8:O9:84:ARG:NH1	13:O9:1001:CYC:O2A	2.17	0.78
2:DA:34:ARG:NE	13:IA:202:CYC:H2C	1.98	0.78
13:RA:201:CYC:HHA	13:RA:201:CYC:CBD	2.12	0.78
13:TA:202:CYC:HMA2	13:TA:202:CYC:CGA	2.14	0.78
2:H1:34:ARG:NE	2:H1:150:GLU:OE2	2.17	0.78
2:J1:119:ILE:HD11	13:J1:1001:CYC:HAA1	1.65	0.78
4:N1:156:THR:CA	4:N1:157:GLN:OE1	2.31	0.78
3:Z1:83:CYS:SG	13:Z1:202:CYC:C3C	2.72	0.78
13:Z2:201:CYC:CGA	13:Z2:201:CYC:HMA2	2.13	0.78
13:K3:201:CYC:CGA	13:K3:201:CYC:HMA2	2.13	0.78
1:A4:104:ARG:HH22	1:A4:175:PRO:HG2	1.48	0.78
3:Z4:83:CYS:SG	13:Z4:202:CYC:C2C	2.72	0.78
13:R5:201:CYC:HHA	13:R5:201:CYC:CBD	2.12	0.78
3:V5:154:CYS:SG	13:V5:202:CYC:C2B	2.72	0.78
2:H7:73:PRO:CB	3:M7:58:ARG:CZ	2.62	0.78
7:V8:126:VAL:N	13:V8:1001:CYC:HMC1	1.98	0.78
8:W8:78:ARG:NE	13:W8:1001:CYC:O1D	2.11	0.78
7:t8:51:VAL:CG1	10:19:930:PHE:CE1	2.67	0.78
10:09:696:PHE:HB3	7:y9:82:LEU:HB2	1.65	0.78
8:F9:84:ARG:NH1	13:F9:1001:CYC:O2A	2.17	0.78
13:MA:1003:CYC:HMA2	13:MA:1003:CYC:CGA	2.13	0.78
13:Q1:202:CYC:HHA	13:Q1:202:CYC:CBD	2.12	0.78
13:Q1:202:CYC:CGA	13:Q1:202:CYC:HMA2	2.14	0.78
13:T1:201:CYC:HMA2	13:T1:201:CYC:CGA	2.13	0.78
3:Z1:83:CYS:SG	13:Z1:202:CYC:C2C	2.72	0.78
2:H2:73:PRO:CB	3:M2:58:ARG:CZ	2.62	0.78
2:Q2:119:ILE:CD1	13:Q2:201:CYC:HMA1	2.14	0.78
13:E3:202:CYC:CGA	13:E3:202:CYC:HMA2	2.14	0.78
2:H3:73:PRO:CB	3:M3:58:ARG:CZ	2.62	0.78
3:C4:13:ALA:CB	3:C4:20:LEU:CD2	2.61	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G4:154:CYS:SG	13:G4:201:CYC:CMC	2.71	0.78
2:H4:34:ARG:NE	2:H4:150:GLU:OE2	2.17	0.78
13:P4:202:CYC:HHA	13:P4:202:CYC:CBD	2.12	0.78
13:Z4:201:CYC:CGA	13:Z4:201:CYC:HMA2	2.13	0.78
5:A5:234:GLN:HB3	7:A9:66:VAL:CG1	2.13	0.78
13:K5:201:CYC:CGA	13:K5:201:CYC:HMA2	2.13	0.78
2:S5:34:ARG:HH11	13:Z5:202:CYC:H2C	1.47	0.78
13:E6:202:CYC:CGA	13:E6:202:CYC:HMA2	2.14	0.78
3:I6:41:VAL:HG23	13:I6:202:CYC:CMB	2.14	0.78
2:J6:85:CYS:HA	13:J6:1001:CYC:HAC2	1.65	0.78
13:K6:202:CYC:HHA	13:K6:202:CYC:CBD	2.12	0.78
13:M7:201:CYC:HMA2	13:M7:201:CYC:CGA	2.13	0.78
8:B8:84:ARG:CZ	10:09:572:ILE:CD1	2.61	0.78
7:t8:126:VAL:N	13:t8:1001:CYC:HMC1	1.98	0.78
10:19:272:LYS:HD3	9:39:22:GLU:OE2	1.83	0.78
8:J9:84:ARG:NH1	13:J9:1001:CYC:O2A	2.17	0.78
8:v9:84:ARG:NH1	13:v9:1001:CYC:O2A	2.17	0.78
13:GA:1002:CYC:HMA2	13:GA:1002:CYC:CGA	2.13	0.78
1:A1:50:TYR:CZ	1:A1:64:ARG:HG2	2.19	0.78
13:P1:202:CYC:HMA2	13:P1:202:CYC:CGA	2.14	0.78
5:A2:60:GLU:O	5:A2:62:LEU:CD1	2.30	0.78
5:A2:194:TRP:CD1	7:d9:66:VAL:HG13	2.18	0.78
3:E2:44:ARG:HH21	3:E2:149:ILE:HD11	1.49	0.78
6:A3:14:ASN:CB	13:E3:201:CYC:HMA1	2.13	0.78
6:A3:104:ARG:NE	6:A3:108:ILE:CD1	2.41	0.78
13:I3:202:CYC:CGA	13:I3:202:CYC:HMA2	2.14	0.78
3:M3:44:ARG:NH2	3:M3:149:ILE:HG12	1.98	0.78
13:M3:201:CYC:HMA2	13:M3:201:CYC:CGA	2.13	0.78
13:M4:202:CYC:CGA	13:M4:202:CYC:HMA2	2.13	0.78
3:C5:54:THR:O	3:C5:58:ARG:NH1	2.17	0.78
13:C5:201:CYC:CGA	13:C5:201:CYC:HMA2	2.13	0.78
4:N5:237:TYR:HE2	4:N5:263:TYR:CD1	2.02	0.78
13:R5:201:CYC:CGA	13:R5:201:CYC:HMA2	2.13	0.78
3:E6:87:MET:CE	13:E6:201:CYC:CBC	2.54	0.78
3:X6:38:ARG:CG	3:X6:157:LEU:CD2	2.62	0.78
13:X6:202:CYC:CGA	13:X6:202:CYC:HMA2	2.13	0.78
2:J7:85:CYS:HA	13:J7:1001:CYC:HAC2	1.65	0.78
7:g8:126:VAL:N	13:g8:1001:CYC:HMC1	1.98	0.78
8:h8:113:LEU:HD21	13:h8:1001:CYC:CMB	2.14	0.78
8:m8:144:ALA:HB3	8:e9:29:LYS:HZ3	0.96	0.78
13:ZA:202:CYC:HMA2	13:ZA:202:CYC:CGA	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:205:ILE:HG21	7:c8:59:PHE:HD2	1.48	0.78
2:L1:51:ARG:NH2	3:C3:148:GLY:C	2.41	0.78
4:N1:48:TYR:CB	3:P1:85:ARG:HH11	1.92	0.78
3:V1:36:ASN:HD21	13:V1:201:CYC:CAD	1.89	0.78
5:A2:194:TRP:HD1	7:d9:66:VAL:CG1	1.96	0.78
13:H2:1001:CYC:CGD	3:M2:58:ARG:HH12	1.96	0.78
2:W2:29:ARG:CZ	13:W2:203:CYC:HMD2	2.14	0.78
2:W2:119:ILE:CD1	13:W2:202:CYC:HMA3	2.13	0.78
6:A3:54:PHE:HB3	6:A3:58:LEU:HB2	1.66	0.78
2:F3:31:ARG:NH1	3:G3:6:PHE:CG	2.52	0.78
13:G3:202:CYC:HMA2	13:G3:202:CYC:CGA	2.13	0.78
2:F4:123:PHE:CD2	13:F4:1001:CYC:HAA2	2.19	0.78
3:I6:58:ARG:HH22	2:J6:73:PRO:HB2	1.44	0.78
3:V6:150:THR:CB	13:V6:201:CYC:HAA2	2.14	0.78
13:V6:201:CYC:CGA	13:V6:201:CYC:HMA2	2.13	0.78
6:A7:64:ARG:HG2	6:A7:64:ARG:NH2	1.97	0.78
8:d8:81:ALA:HA	8:d8:84:ARG:HD3	1.65	0.78
13:d8:1001:CYC:HMA2	10:09:1001:SER:CA	2.13	0.78
8:h8:78:ARG:NE	13:h8:1001:CYC:O1D	2.11	0.78
7:j8:106:GLU:CD	10:09:1118:SER:HB2	2.08	0.78
13:39:1001:CYC:O2A	8:n9:84:ARG:NH1	2.17	0.78
8:j9:84:ARG:NH1	13:j9:1001:CYC:O2A	2.17	0.78
2:SA:34:ARG:HH11	13:ZA:202:CYC:H2C	1.47	0.78
13:TA:202:CYC:HHA	13:TA:202:CYC:CBD	2.12	0.78
3:V1:36:ASN:OD1	13:V1:201:CYC:C1D	2.32	0.78
13:X1:202:CYC:HHA	13:X1:202:CYC:CBD	2.12	0.78
5:A2:197:THR:CG2	7:d9:75:GLN:HG2	2.14	0.78
13:W2:201:CYC:CGA	13:W2:201:CYC:HMA2	2.14	0.78
2:B3:34:ARG:NH1	13:K3:202:CYC:H2C	1.98	0.78
3:G3:34:GLU:OE2	3:G3:157:LEU:HD22	1.82	0.78
3:K4:144:ASN:O	13:K4:202:CYC:HBB1	1.82	0.78
3:P4:127:SER:HB3	13:P4:201:CYC:HMC1	1.66	0.78
13:P4:202:CYC:HMA2	13:P4:202:CYC:CGA	2.13	0.78
5:A5:15:HIS:CE1	5:A5:121:TYR:HE2	2.02	0.78
5:A5:163:GLN:CD	5:A5:166:ARG:HG3	2.09	0.78
3:E6:44:ARG:HH21	3:E6:149:ILE:HD11	1.49	0.78
8:D8:113:LEU:HD21	13:D8:1001:CYC:CMB	2.14	0.78
8:M8:113:LEU:HD21	13:M8:1001:CYC:CMB	2.14	0.78
8:W8:113:LEU:HD21	13:W8:1001:CYC:CMB	2.14	0.78
7:n8:110:ILE:CD1	10:09:954:ARG:CD	2.61	0.78
8:s8:144:ALA:HB1	8:O9:29:LYS:NZ	1.93	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IA:93:TYR:CE2	13:IA:201:CYC:HBB1	2.17	0.78
13:VA:202:CYC:HHA	13:VA:202:CYC:CBD	2.12	0.78
13:XA:202:CYC:HMA2	13:XA:202:CYC:CGA	2.13	0.78
2:F1:123:PHE:CD2	13:F1:1001:CYC:HAA2	2.19	0.77
5:A2:86:ARG:HH11	4:N2:265:ARG:NH1	1.83	0.77
2:B2:30:GLY:CA	2:J2:30:GLY:CA	2.61	0.77
13:C2:202:CYC:HMA2	13:C2:202:CYC:CGA	2.14	0.77
13:U2:201:CYC:HHA	13:U2:201:CYC:CBD	2.12	0.77
2:H3:119:ILE:CD1	13:H3:1001:CYC:CMA	2.62	0.77
13:C4:302:CYC:CGA	13:C4:302:CYC:HMA2	2.14	0.77
2:F4:119:ILE:HD13	13:F4:1001:CYC:HMA1	1.66	0.77
13:A5:302:CYC:O2A	3:E5:85:ARG:NH2	2.18	0.77
13:G5:201:CYC:CGA	13:G5:201:CYC:HMA2	2.13	0.77
3:M5:16:ARG:HG2	3:R5:66:GLN:HE22	1.47	0.77
13:P5:202:CYC:CGA	13:P5:202:CYC:HMA2	2.13	0.77
13:X5:202:CYC:CGA	13:X5:202:CYC:HMA2	2.13	0.77
5:A6:229:GLN:HA	7:I9:66:VAL:HG11	0.79	0.77
13:K6:202:CYC:HMA2	13:K6:202:CYC:CGA	2.13	0.77
8:B8:84:ARG:NH1	10:09:572:ILE:HG12	1.99	0.77
8:D8:11:ASN:ND2	10:09:536:ALA:HB1	1.98	0.77
8:d8:81:ALA:HA	8:d8:84:ARG:CD	2.14	0.77
8:f8:113:LEU:HD21	13:f8:1001:CYC:CMB	2.14	0.77
8:x9:16:GLN:O	5:AA:213:GLU:CD	2.28	0.77
13:AA:302:CYC:O2A	3:EA:85:ARG:NH2	2.17	0.77
13:E1:202:CYC:HMA2	13:E1:202:CYC:CGA	2.14	0.77
2:H1:119:ILE:CD1	13:H1:1001:CYC:HMA1	2.13	0.77
3:M1:127:SER:CB	13:M1:201:CYC:CMC	2.62	0.77
3:I2:41:VAL:HG23	13:I2:202:CYC:CMB	2.14	0.77
6:A3:14:ASN:O	13:E3:201:CYC:HMA1	1.79	0.77
1:A4:195:ILE:HG23	7:V8:80:THR:HG23	1.32	0.77
2:F4:25:LEU:HB3	13:G4:201:CYC:CBB	2.07	0.77
3:Z4:83:CYS:SG	13:Z4:202:CYC:C3C	2.72	0.77
13:A5:303:CYC:CAC	3:G5:83:CYS:SG	2.71	0.77
3:E5:150:THR:O	13:E5:201:CYC:HMD2	1.83	0.77
13:V5:202:CYC:HMA2	13:V5:202:CYC:CGA	2.13	0.77
2:B6:30:GLY:CA	2:J6:30:GLY:CA	2.61	0.77
2:B6:31:ARG:HH11	2:B6:103:GLY:N	1.82	0.77
2:H6:73:PRO:CB	3:M6:58:ARG:CZ	2.62	0.77
2:Q6:85:CYS:SG	13:Q6:201:CYC:CAC	2.72	0.77
13:U6:201:CYC:HMA2	13:U6:201:CYC:CGA	2.13	0.77
2:B7:31:ARG:HH11	2:B7:103:GLY:N	1.81	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H7:119:ILE:CD1	13:H7:1001:CYC:CMA	2.62	0.77
13:K7:201:CYC:HMA2	13:K7:201:CYC:CGA	2.13	0.77
13:K7:202:CYC:HMA2	13:K7:202:CYC:CGA	2.13	0.77
7:E8:126:VAL:N	13:E8:1001:CYC:HMC1	1.97	0.77
8:I8:113:LEU:HD21	13:I8:1001:CYC:CMB	2.14	0.77
8:R8:78:ARG:NE	13:R8:1001:CYC:O1D	2.11	0.77
8:W8:84:ARG:O	8:W8:88:TYR:CD1	2.38	0.77
7:c8:126:VAL:N	13:c8:1001:CYC:HMC1	1.98	0.77
8:o8:66:ILE:HG23	10:09:1128:ARG:CD	2.10	0.77
8:o8:116:THR:CA	10:09:1114:LYS:HE2	2.14	0.77
8:u8:15:VAL:CG1	10:19:942:GLY:H	1.97	0.77
7:w9:82:LEU:CD1	5:AA:222:LEU:HD23	2.15	0.77
13:K1:201:CYC:CGA	13:K1:201:CYC:HMA2	2.13	0.77
13:V2:201:CYC:HMA2	13:V2:201:CYC:CGA	2.13	0.77
3:M4:127:SER:CB	13:M4:201:CYC:CMC	2.62	0.77
4:N4:63:ARG:HG2	13:V4:202:CYC:O1D	1.85	0.77
5:A5:60:GLU:CG	5:A5:65:ASN:ND2	2.42	0.77
3:I5:154:CYS:SG	13:I5:202:CYC:HAB1	2.21	0.77
13:I5:202:CYC:CGA	13:I5:202:CYC:HMA2	2.13	0.77
13:M5:1003:CYC:HMA2	13:M5:1003:CYC:CGA	2.13	0.77
5:A6:73:GLN:NE2	4:N6:227:GLY:HA2	1.99	0.77
3:E6:87:MET:HE1	13:E6:201:CYC:HBC2	1.65	0.77
3:V6:89:ILE:HG21	13:V6:202:CYC:HMC1	1.66	0.77
6:A7:54:PHE:HB3	6:A7:58:LEU:HB2	1.66	0.77
3:E7:150:THR:O	13:E7:202:CYC:HMD2	1.85	0.77
8:P8:113:LEU:HD21	13:P8:1001:CYC:CMB	2.14	0.77
8:o8:66:ILE:CG2	10:09:1128:ARG:CD	2.59	0.77
8:c9:84:ARG:NH1	13:c9:1001:CYC:O2A	2.17	0.77
8:p9:84:ARG:NH1	13:p9:1001:CYC:O2A	2.17	0.77
13:IA:202:CYC:CGA	13:IA:202:CYC:HMA2	2.13	0.77
13:PA:202:CYC:HMA2	13:PA:202:CYC:CGA	2.13	0.77
3:VA:154:CYS:SG	13:VA:202:CYC:C2B	2.72	0.77
3:C1:13:ALA:CB	3:C1:20:LEU:CD2	2.61	0.77
5:A2:14:ASN:HA	13:E2:201:CYC:HMA1	1.66	0.77
2:O2:30:GLY:HA2	2:W2:30:GLY:HA3	1.65	0.77
13:U2:201:CYC:HMA2	13:U2:201:CYC:CGA	2.13	0.77
3:X2:73:ASN:ND2	3:X2:123:THR:HB	2.00	0.77
13:T4:201:CYC:HMA2	13:T4:201:CYC:CGA	2.13	0.77
13:V4:201:CYC:HHA	13:V4:201:CYC:CBD	2.12	0.77
13:G6:201:CYC:CGA	13:G6:201:CYC:HMA2	2.13	0.77
3:E7:44:ARG:HH21	3:E7:149:ILE:HD11	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F7:31:ARG:NH1	3:G7:6:PHE:CG	2.52	0.77
13:G7:202:CYC:HMA2	13:G7:202:CYC:CGA	2.13	0.77
7:L8:25:ARG:HD3	7:Z9:25:ARG:HH12	0.96	0.77
8:m8:113:LEU:HD21	13:09:1201:CYC:CMB	2.14	0.77
8:s8:113:LEU:HD21	13:s8:1001:CYC:CMB	2.14	0.77
10:19:956:PRO:O	10:19:957:ALA:C	2.26	0.77
8:S9:84:ARG:NH1	13:S9:1001:CYC:O2A	2.17	0.77
8:r9:84:ARG:NH1	13:r9:1001:CYC:O2A	2.17	0.77
2:BA:26:GLN:HG2	2:JA:34:ARG:HG3	1.67	0.77
1:A1:212:PHE:HD1	7:l8:66:VAL:C	1.92	0.77
3:C1:79:ARG:O	13:C1:301:CYC:HMD2	1.85	0.77
3:E1:40:ASP:OD2	13:E1:202:CYC:ND	2.14	0.77
5:A2:131:ILE:CG2	13:C2:201:CYC:O1A	2.33	0.77
5:A2:222:LEU:HD22	7:X9:82:LEU:CD1	2.07	0.77
2:H2:73:PRO:HB2	3:M2:58:ARG:HH22	1.46	0.77
13:Z2:201:CYC:HHA	13:Z2:201:CYC:CBD	2.12	0.77
13:E4:202:CYC:CGA	13:E4:202:CYC:HMA2	2.14	0.77
4:N5:21:VAL:CG1	4:N5:35:VAL:HG22	2.14	0.77
4:N5:55:LEU:O	4:N5:59:GLU:HG3	1.83	0.77
3:Z5:89:ILE:HG12	13:Z5:201:CYC:HBB3	1.67	0.77
2:B6:31:ARG:HH11	2:B6:103:GLY:CA	1.97	0.77
3:K6:83:CYS:CB	13:K6:201:CYC:HMB3	2.09	0.77
3:R6:44:ARG:NH1	3:R6:145:ASP:O	2.17	0.77
2:B7:31:ARG:HH11	2:B7:103:GLY:CA	1.97	0.77
3:E7:87:MET:HE1	13:E7:201:CYC:HBC2	1.65	0.77
3:M7:44:ARG:NH2	3:M7:149:ILE:HG12	1.98	0.77
7:C8:126:VAL:N	13:C8:1001:CYC:HMC1	1.98	0.77
13:19:1204:CYC:O2A	8:a9:84:ARG:NH1	2.17	0.77
1:A1:205:ILE:HG21	7:c8:59:PHE:CD2	2.19	0.77
13:M1:202:CYC:HMA2	13:M1:202:CYC:CGA	2.13	0.77
3:P1:89:ILE:HG22	13:P1:201:CYC:CBB	2.02	0.77
13:P1:202:CYC:HHA	13:P1:202:CYC:CBD	2.12	0.77
3:P2:68:ILE:CD1	13:Q2:201:CYC:O1A	2.31	0.77
2:Y2:123:PHE:CD2	13:Y2:201:CYC:HAA2	2.19	0.77
13:C3:201:CYC:CGA	13:C3:201:CYC:HMA2	2.14	0.77
3:M4:154:CYS:SG	13:M4:202:CYC:HAB1	2.24	0.77
3:V4:36:ASN:HD21	13:V4:201:CYC:CMD	1.98	0.77
2:B5:34:ARG:NH1	2:B5:150:GLU:OE1	2.17	0.77
2:J5:31:ARG:CZ	2:J5:103:GLY:HA3	2.09	0.77
2:Q5:32:TYR:CD1	3:R5:35:GLY:HA3	2.19	0.77
5:A6:131:ILE:CG2	13:C6:201:CYC:O1A	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A6:202:TYR:CZ	7:N9:48:GLU:CG	2.68	0.77
2:Q6:30:GLY:HA3	2:U6:30:GLY:CA	2.15	0.77
8:B8:113:LEU:HD21	13:B8:1001:CYC:CMB	2.14	0.77
7:g8:25:ARG:HD2	7:l8:25:ARG:HD2	1.67	0.77
8:t9:84:ARG:NH1	13:t9:1001:CYC:O2A	2.17	0.77
5:AA:163:GLN:CD	5:AA:166:ARG:HG3	2.09	0.77
13:AA:304:CYC:NC	4:NA:226:LEU:HD11	2.00	0.77
2:DA:34:ARG:CZ	2:DA:150:GLU:CD	2.58	0.77
4:NA:55:LEU:O	4:NA:59:GLU:HG3	1.83	0.77
4:NA:62:LEU:HG	4:NA:72:PHE:CD1	2.20	0.77
2:H2:31:ARG:HE	2:H2:103:GLY:HA3	1.48	0.77
3:I2:41:VAL:CG2	13:I2:202:CYC:HMB2	2.13	0.77
3:T4:76:THR:HG23	3:T4:79:ARG:HG3	1.65	0.77
2:Q5:28:ALA:O	2:Q5:32:TYR:HD2	1.68	0.77
5:A6:14:ASN:HA	13:E6:201:CYC:HMA1	1.66	0.77
3:K6:60:LEU:CD2	13:K6:201:CYC:HBB1	2.13	0.77
7:J8:69:GLY:HA3	7:X9:64:ASP:OD2	1.83	0.77
8:K8:11:ASN:ND2	10:19:536:ALA:HB1	2.00	0.77
7:O8:64:ASP:OD1	7:w9:69:GLY:CA	2.31	0.77
8:T8:113:LEU:HD21	13:T8:1001:CYC:CMB	2.14	0.77
7:t8:106:GLU:OE1	10:19:951:THR:CG2	2.33	0.77
13:19:1203:CYC:O2A	8:Y9:84:ARG:NH1	2.17	0.77
4:NA:237:TYR:HE2	4:NA:263:TYR:CD1	2.02	0.77
5:A2:103:ASN:CG	3:C2:112:ASN:ND2	2.43	0.77
2:H2:31:ARG:NH2	2:H2:35:ALA:CA	2.47	0.77
2:Q2:30:GLY:HA3	2:U2:30:GLY:CA	2.15	0.77
2:Y2:85:CYS:SG	13:Y2:201:CYC:CAC	2.72	0.77
1:A4:50:TYR:CZ	1:A4:64:ARG:HG2	2.19	0.77
4:N4:155:GLU:N	4:N4:157:GLN:HE22	1.82	0.77
3:V4:36:ASN:OD1	13:V4:201:CYC:C1D	2.32	0.77
5:A5:228:ASN:ND2	7:q9:59:PHE:C	2.43	0.77
3:E5:154:CYS:CB	13:E5:201:CYC:CAC	2.60	0.77
3:V5:60:LEU:HD21	13:V5:201:CYC:HBB1	0.86	0.77
5:A6:202:TYR:CE1	7:N9:48:GLU:HG2	2.18	0.77
3:C6:83:CYS:HB3	13:C6:201:CYC:HAC2	1.64	0.77
3:I7:41:VAL:HG23	13:I7:202:CYC:CMB	2.14	0.77
8:F8:113:LEU:HD21	13:F8:1001:CYC:CMB	2.14	0.77
8:s8:69:PRO:O	10:19:936:SER:OG	2.02	0.77
10:19:38:GLY:HA3	7:k9:3:ILE:HD11	1.67	0.77
13:29:1001:CYC:O2A	8:W9:84:ARG:NH1	2.17	0.77
4:NA:21:VAL:CG1	4:NA:35:VAL:HG22	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QA:32:TYR:CD1	3:RA:35:GLY:HA3	2.19	0.77
6:A3:53:ILE:CA	6:A3:112:ARG:HD3	2.12	0.77
2:B3:31:ARG:HH11	2:B3:103:GLY:CA	1.97	0.77
13:I4:202:CYC:CGA	13:I4:202:CYC:HMA2	2.13	0.77
3:P4:127:SER:HB2	13:P4:201:CYC:CMC	2.11	0.77
13:A5:303:CYC:CAC	3:G5:83:CYS:CA	2.47	0.77
3:K6:144:ASN:HB2	3:K6:158:ILE:CD1	2.15	0.77
13:T6:201:CYC:HAB1	2:Y6:34:ARG:CZ	2.11	0.77
8:a8:113:LEU:HD21	13:b8:1001:CYC:CMB	2.14	0.77
8:f8:88:TYR:OH	9:i8:21:ARG:N	2.18	0.77
13:AA:301:CYC:O2A	3:CA:85:ARG:NH2	2.18	0.77
3:EA:154:CYS:CB	13:EA:201:CYC:CAC	2.60	0.77
3:K1:82:ALA:HB3	13:K1:201:CYC:O2A	1.84	0.77
3:M1:154:CYS:SG	13:M1:202:CYC:HAB1	2.24	0.77
5:A2:232:TYR:HB3	7:g8:73:TYR:CE1	2.19	0.77
3:T2:37:LYS:HB2	3:T2:157:LEU:HD11	1.65	0.77
3:T2:38:ARG:HG2	3:T2:157:LEU:CD2	2.15	0.77
3:V2:89:ILE:HG21	13:V2:202:CYC:HMC1	1.66	0.77
2:W2:123:PHE:CD2	13:W2:202:CYC:HAA2	2.20	0.77
3:K4:82:ALA:HB3	13:K4:201:CYC:O2A	1.84	0.77
5:A5:201:PHE:CD2	7:u9:76:GLU:HB3	2.20	0.77
3:K5:144:ASN:O	13:K5:201:CYC:HBB1	1.84	0.77
3:T6:38:ARG:HG2	3:T6:157:LEU:CD2	2.15	0.77
13:T6:201:CYC:HMA2	13:T6:201:CYC:CGA	2.13	0.77
8:I8:88:TYR:OH	10:19:569:VAL:CG2	2.27	0.77
7:L8:113:ARG:NH2	7:b9:113:ARG:NH2	2.33	0.77
9:U8:25:ASN:OD1	10:09:856:GLU:HB2	1.84	0.77
8:d8:113:LEU:HD21	13:d8:1001:CYC:CMB	2.14	0.77
8:D9:84:ARG:NH1	13:D9:1001:CYC:O2A	2.17	0.77
13:C1:302:CYC:HMA2	13:C1:302:CYC:CGA	2.14	0.76
3:K1:110:CYS:HA	13:K1:201:CYC:HBC2	1.67	0.76
4:N2:41:ARG:HG2	4:N2:46:ASN:OD1	1.84	0.76
5:A5:234:GLN:CB	7:A9:66:VAL:HG12	2.15	0.76
13:A5:304:CYC:CAC	3:K5:114:LEU:CD1	2.63	0.76
13:A5:304:CYC:NC	4:N5:226:LEU:HD11	2.00	0.76
2:L6:31:ARG:NH2	2:L6:35:ALA:HB1	2.00	0.76
2:Y6:85:CYS:SG	13:Y6:201:CYC:CAC	2.72	0.76
8:D8:11:ASN:OD1	10:09:537:SER:CB	2.33	0.76
8:K8:113:LEU:HD21	13:K8:1001:CYC:CMB	2.14	0.76
8:u8:113:LEU:HD21	13:19:1201:CYC:CMB	2.14	0.76
10:19:731:ARG:O	9:49:24:GLN:NE2	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AA:15:HIS:CE1	5:AA:121:TYR:HE2	2.02	0.76
13:AA:304:CYC:CAC	3:KA:114:LEU:CD1	2.63	0.76
2:BA:31:ARG:NH1	2:BA:103:GLY:HA3	1.96	0.76
2:D1:85:CYS:SG	13:D1:1001:CYC:CAC	2.72	0.76
5:A2:190:VAL:C	7:d9:75:GLN:HE21	1.91	0.76
3:E2:150:THR:O	13:E2:202:CYC:HMD2	1.85	0.76
3:K3:144:ASN:HB2	3:K3:158:ILE:CD1	2.15	0.76
3:C6:114:LEU:HD23	3:C6:172:VAL:HG22	1.65	0.76
3:P6:44:ARG:CZ	3:P6:149:ILE:HG13	2.16	0.76
3:V6:58:ARG:CZ	2:W6:73:PRO:HB3	2.15	0.76
2:W6:123:PHE:CD2	13:W6:202:CYC:HAA2	2.20	0.76
2:Y6:123:PHE:CD2	13:Y6:201:CYC:HAA2	2.19	0.76
2:D7:85:CYS:HA	13:D7:1001:CYC:HAC2	1.67	0.76
2:L7:29:ARG:NH1	13:M7:201:CYC:HMD2	2.01	0.76
8:I8:84:ARG:NH1	10:19:572:ILE:CG2	2.48	0.76
8:R8:113:LEU:HD21	13:R8:1001:CYC:CMB	2.14	0.76
8:k8:84:ARG:NH1	10:09:1059:ASN:HD22	1.82	0.76
8:k8:113:LEU:HD21	13:k8:1001:CYC:CMB	2.14	0.76
8:o8:88:TYR:CE1	8:o8:109:VAL:HG11	2.17	0.76
7:w9:86:ASP:HB2	5:AA:219:PHE:CE2	2.20	0.76
2:BA:35:ALA:CB	3:CA:32:VAL:CG1	2.62	0.76
3:G1:79:ARG:C	13:G1:202:CYC:HMD1	2.10	0.76
5:A2:52:TYR:HB3	5:A2:61:ILE:CG2	2.15	0.76
2:H2:119:ILE:CD1	13:H2:1001:CYC:CMA	2.62	0.76
3:G3:66:GLN:HB2	2:FA:63:LYS:HA	1.67	0.76
2:H3:29:ARG:HH12	13:I3:202:CYC:CMD	1.96	0.76
2:B4:136:HIS:CE1	2:B4:140:ASN:HD22	2.00	0.76
3:E4:55:ASN:OD1	3:E4:58:ARG:NH2	2.19	0.76
3:K4:110:CYS:HA	13:K4:201:CYC:HBC2	1.66	0.76
3:P4:68:ILE:CD1	13:Q4:201:CYC:CGA	2.56	0.76
2:B5:26:GLN:HG2	2:J5:34:ARG:HG3	1.67	0.76
2:H5:28:ALA:O	2:H5:32:TYR:HD2	1.68	0.76
3:T6:154:CYS:SG	13:T6:201:CYC:CAC	2.74	0.76
2:D7:74:GLN:OE1	2:D7:124:ASP:HB2	1.86	0.76
8:H9:84:ARG:NH1	13:H9:1001:CYC:O2A	2.17	0.76
13:AA:303:CYC:CAC	3:GA:83:CYS:SG	2.71	0.76
2:BA:34:ARG:NH1	2:BA:150:GLU:OE1	2.17	0.76
1:A1:199:LEU:HD23	7:c8:75:GLN:O	1.86	0.76
5:A2:14:ASN:HA	13:E2:201:CYC:CMA	2.15	0.76
3:C2:104:SER:C	3:C2:107:ASP:OD1	2.28	0.76
3:M2:44:ARG:NH2	3:M2:149:ILE:HG12	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:104:SER:C	3:C3:107:ASP:OD1	2.29	0.76
1:A4:201:LEU:HB2	7:V8:52:LYS:CE	2.15	0.76
1:A4:209:THR:HG21	7:V8:66:VAL:C	2.11	0.76
3:C4:152:GLY:CA	13:C4:302:CYC:HMD1	2.11	0.76
4:N4:230:VAL:HG12	4:N4:265:ARG:HH22	1.50	0.76
5:A6:86:ARG:HH11	4:N6:265:ARG:NH1	1.82	0.76
6:A7:96:VAL:HG12	6:A7:105:LEU:HD22	1.66	0.76
6:A7:135:GLY:HA3	2:B7:15:THR:HA	1.67	0.76
13:C7:201:CYC:CAB	2:J7:34:ARG:CZ	2.64	0.76
7:A9:20:PRO:HB2	7:o9:151:SER:OG	1.84	0.76
8:z9:84:ARG:NH1	13:z9:1001:CYC:O2A	2.17	0.76
2:JA:31:ARG:HH12	2:JA:103:GLY:CA	1.98	0.76
3:V1:36:ASN:HD21	13:V1:201:CYC:CMD	1.97	0.76
5:A2:52:TYR:HB3	5:A2:61:ILE:HG22	1.66	0.76
2:B2:31:ARG:HH11	2:B2:102:ALA:C	1.94	0.76
3:K2:144:ASN:HB2	3:K2:158:ILE:CD1	2.15	0.76
2:L2:31:ARG:NH2	2:L2:35:ALA:HB1	2.00	0.76
3:P2:44:ARG:CZ	3:P2:149:ILE:HG13	2.15	0.76
2:S2:29:ARG:O	2:S2:33:GLU:HG2	1.86	0.76
5:A6:248:PRO:HD2	8:B8:63:TYR:CE1	2.21	0.76
13:C6:202:CYC:CAB	2:J6:34:ARG:CZ	2.64	0.76
6:A7:83:ILE:HD11	6:A7:159:PRO:CD	2.15	0.76
3:C7:104:SER:C	3:C7:107:ASP:OD1	2.28	0.76
2:U2:119:ILE:CD1	13:U2:202:CYC:CMA	2.64	0.76
3:E3:44:ARG:HH21	3:E3:149:ILE:HD11	1.49	0.76
3:E3:87:MET:CE	13:E3:201:CYC:CBC	2.54	0.76
3:I4:128:VAL:HG23	13:I4:201:CYC:HMC3	1.65	0.76
5:A6:52:TYR:HB3	5:A6:61:ILE:CG2	2.15	0.76
3:C6:104:SER:C	3:C6:107:ASP:OD1	2.28	0.76
2:U6:119:ILE:CD1	13:U6:202:CYC:CMA	2.64	0.76
3:X6:73:ASN:ND2	3:X6:123:THR:HB	2.00	0.76
3:G7:87:MET:HE1	13:G7:201:CYC:HBC1	1.68	0.76
8:o8:115:GLU:C	10:09:1114:LYS:HZ3	1.91	0.76
2:QA:28:ALA:O	2:QA:32:TYR:HD2	1.68	0.76
1:A1:208:LYS:O	7:c8:63:PRO:CB	2.33	0.76
2:B1:136:HIS:CE1	2:B1:140:ASN:HD22	2.00	0.76
2:F1:138:LYS:O	2:F1:141:HIS:CD2	2.39	0.76
5:A2:196:PHE:O	5:A2:200:LYS:HG2	1.86	0.76
2:B2:31:ARG:HH11	2:B2:103:GLY:CA	1.97	0.76
4:N4:62:LEU:HD21	4:N4:72:PHE:HB2	1.68	0.76
4:N4:230:VAL:CG1	4:N4:265:ARG:HH22	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z5:154:CYS:SG	13:Z5:202:CYC:CMB	2.74	0.76
5:A6:73:GLN:HE22	4:N6:227:GLY:HA2	1.50	0.76
2:J6:123:PHE:CE2	13:J6:1001:CYC:CAA	2.69	0.76
3:M6:157:LEU:O	3:M6:161:VAL:CG2	2.34	0.76
2:O6:24:GLU:OE2	2:O6:24:GLU:N	2.19	0.76
2:B7:31:ARG:HH11	2:B7:102:ALA:C	1.94	0.76
2:J7:123:PHE:CE2	13:J7:1001:CYC:CAA	2.69	0.76
8:D8:11:ASN:CG	10:09:537:SER:O	2.27	0.76
8:T8:78:ARG:NE	13:T8:1001:CYC:O1D	2.11	0.76
2:HA:28:ALA:O	2:HA:32:TYR:HD2	1.69	0.76
4:N1:230:VAL:HG12	4:N1:265:ARG:HH22	1.50	0.76
2:D3:74:GLN:OE1	2:D3:124:ASP:HB2	1.86	0.76
3:I3:41:VAL:HG23	13:I3:202:CYC:CMB	2.14	0.76
5:A5:106:ARG:HH21	5:A5:176:THR:CG2	1.99	0.76
3:X5:154:CYS:SG	13:X5:202:CYC:C2B	2.73	0.76
2:B6:31:ARG:HH11	2:B6:102:ALA:C	1.94	0.76
2:B6:78:ASP:OD2	2:B6:81:GLY:N	2.18	0.76
3:E7:87:MET:CE	13:E7:201:CYC:CBC	2.54	0.76
3:K7:144:ASN:HB2	3:K7:158:ILE:CD1	2.15	0.76
8:D8:11:ASN:OD1	10:09:537:SER:HB2	1.85	0.76
10:19:627:ASN:HA	10:19:630:PHE:HB3	1.66	0.76
4:N1:230:VAL:CG1	4:N1:265:ARG:HH22	1.99	0.76
5:A2:63:LYS:CE	2:L2:118:GLU:OE2	2.32	0.76
3:M2:157:LEU:O	3:M2:161:VAL:CG2	2.34	0.76
2:F4:138:LYS:O	2:F4:141:HIS:CD2	2.39	0.76
13:A5:303:CYC:HBD1	3:G5:121:LEU:HD23	1.67	0.76
2:B5:35:ALA:CB	3:C5:32:VAL:CG1	2.63	0.76
13:P5:202:CYC:HHA	13:P5:202:CYC:CBD	2.12	0.76
2:H7:29:ARG:HH12	13:I7:202:CYC:CMD	1.96	0.76
2:L7:34:ARG:HH21	2:L7:150:GLU:CB	1.99	0.76
7:A8:148:GLU:OE2	7:I9:24:ASP:OD2	2.04	0.76
3:KA:144:ASN:O	13:KA:201:CYC:HBB1	1.84	0.76
3:PA:121:LEU:CD2	13:PA:201:CYC:HBD1	2.16	0.76
3:VA:86:ASP:OD1	13:VA:201:CYC:CHD	2.34	0.76
3:Z1:79:ARG:O	13:Z1:202:CYC:HMD2	1.85	0.76
5:A2:73:GLN:NE2	4:N2:227:GLY:HA2	1.99	0.76
2:Q2:85:CYS:SG	13:Q2:201:CYC:CAC	2.72	0.76
3:T2:38:ARG:HG2	3:T2:157:LEU:HD22	1.67	0.76
3:C3:144:ASN:ND2	3:C3:158:ILE:CD1	2.49	0.76
2:J3:123:PHE:CE2	13:J3:1001:CYC:CAA	2.69	0.76
2:L3:119:ILE:HD11	13:L3:201:CYC:CMA	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:195:ILE:HG12	7:V8:83:ARG:NH1	2.01	0.76
1:A4:202:ALA:HB1	7:V8:78:THR:HB	1.68	0.76
3:X5:87:MET:HE3	13:X5:201:CYC:HBC3	1.65	0.76
3:C6:144:ASN:ND2	3:C6:158:ILE:CD1	2.49	0.76
3:C7:144:ASN:ND2	3:C7:158:ILE:CD1	2.49	0.76
2:L7:119:ILE:HD11	13:L7:201:CYC:CMA	2.16	0.76
9:b8:21:ARG:NH2	10:19:963:THR:CG2	2.48	0.76
5:AA:106:ARG:HH21	5:AA:176:THR:CG2	1.99	0.76
2:D2:74:GLN:OE1	2:D2:124:ASP:HB2	1.86	0.75
3:P2:44:ARG:HH21	3:P2:149:ILE:HG13	0.85	0.75
3:T2:154:CYS:SG	13:T2:201:CYC:CAC	2.74	0.75
5:A5:239:PHE:CD2	7:A9:52:LYS:CB	2.69	0.75
5:A6:14:ASN:HA	13:E6:201:CYC:CMA	2.15	0.75
5:A6:194:TRP:HD1	7:N9:66:VAL:CG1	1.97	0.75
2:H6:29:ARG:HH12	13:I6:202:CYC:CMD	1.96	0.75
2:S6:29:ARG:O	2:S6:33:GLU:HG2	1.86	0.75
6:A7:14:ASN:CB	13:E7:201:CYC:HMA1	2.13	0.75
6:A7:129:ILE:HD11	3:C7:85:ARG:HH11	1.52	0.75
3:K7:144:ASN:CG	3:K7:158:ILE:CD1	2.60	0.75
8:o8:115:GLU:CA	10:09:1114:LYS:NZ	2.49	0.75
7:w9:73:TYR:OH	2:BA:79:SER:CB	2.32	0.75
4:NA:237:TYR:CE2	4:NA:263:TYR:CD1	2.74	0.75
3:E1:55:ASN:OD1	3:E1:58:ARG:NH2	2.19	0.75
3:E1:152:GLY:HA3	13:E1:202:CYC:HMD3	1.68	0.75
4:N1:63:ARG:HG2	13:V1:202:CYC:O1D	1.85	0.75
3:V1:68:ILE:CD1	13:W1:1001:CYC:O2A	2.35	0.75
3:V1:152:GLY:N	13:V1:201:CYC:OB	2.11	0.75
5:A2:191:GLN:HA	7:d9:75:GLN:CD	2.11	0.75
6:A3:53:ILE:HA	6:A3:112:ARG:CD	2.16	0.75
13:C3:201:CYC:CAB	2:J3:34:ARG:CZ	2.64	0.75
3:E3:150:THR:O	13:E3:202:CYC:HMD2	1.85	0.75
2:H3:73:PRO:HB2	3:M3:58:ARG:HH22	1.46	0.75
1:A4:95:LEU:CG	1:A4:176:ARG:NH2	2.49	0.75
3:I4:68:ILE:HD13	13:J4:1001:CYC:O1A	1.87	0.75
2:J4:74:GLN:HA	13:J4:1001:CYC:HBD2	1.69	0.75
3:V5:86:ASP:OD1	13:V5:201:CYC:CHD	2.34	0.75
3:Z5:39:LEU:HD21	13:Z5:202:CYC:HMC3	1.67	0.75
3:E6:150:THR:O	13:E6:202:CYC:HMD2	1.85	0.75
2:Q6:88:ASP:CA	13:Q6:201:CYC:HMB2	2.14	0.75
3:C7:152:GLY:HA3	13:C7:201:CYC:HMD2	1.64	0.75
2:LA:32:TYR:CE1	3:MA:35:GLY:HA2	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XA:154:CYS:SG	13:XA:202:CYC:C2B	2.73	0.75
3:C1:154:CYS:SG	13:C1:302:CYC:CBC	2.75	0.75
3:I2:115:ARG:HH22	4:N2:9:ARG:HD2	0.82	0.75
3:K2:144:ASN:CG	3:K2:158:ILE:CD1	2.60	0.75
2:L2:119:ILE:HD11	13:L2:201:CYC:CMA	2.16	0.75
3:R2:44:ARG:NH1	3:R2:145:ASP:O	2.17	0.75
3:M3:157:LEU:O	3:M3:161:VAL:CG2	2.34	0.75
2:D5:34:ARG:CZ	2:D5:150:GLU:CD	2.58	0.75
4:N5:62:LEU:HG	4:N5:72:PHE:CD1	2.20	0.75
5:A6:223:ALA:CB	7:I9:78:THR:HG23	2.16	0.75
3:K6:144:ASN:HB2	3:K6:158:ILE:HD11	1.69	0.75
3:R6:38:ARG:NH2	3:R6:101:GLY:HA2	2.01	0.75
2:F7:34:ARG:HH12	2:F7:146:GLN:CG	2.00	0.75
13:d8:1001:CYC:CBA	10:09:1004:ARG:HB2	2.16	0.75
8:o8:77:ARG:NH1	13:o8:1001:CYC:O1D	2.19	0.75
8:q8:113:LEU:HD21	13:q8:1001:CYC:CMB	2.14	0.75
3:EA:154:CYS:SG	13:EA:201:CYC:C3C	2.75	0.75
3:ZA:154:CYS:SG	13:ZA:202:CYC:CMB	2.74	0.75
3:K1:83:CYS:HB3	13:K1:201:CYC:C1B	2.17	0.75
13:W2:203:CYC:HBB1	3:X2:144:ASN:HA	1.69	0.75
3:C3:152:GLY:HA3	13:C3:201:CYC:HMD2	1.64	0.75
3:G4:79:ARG:C	13:G4:202:CYC:HMD1	2.10	0.75
2:L5:31:ARG:HH11	2:L5:103:GLY:HA3	1.50	0.75
3:P6:34:GLU:HG3	3:P6:37:LYS:HD2	1.69	0.75
8:B8:84:ARG:CZ	10:09:572:ILE:HD11	2.16	0.75
8:s8:84:ARG:NH2	13:s8:1001:CYC:O2A	2.20	0.75
3:CA:150:THR:O	13:CA:201:CYC:HMD2	1.86	0.75
3:TA:114:LEU:HD13	13:TA:201:CYC:CAC	2.17	0.75
3:ZA:39:LEU:HD21	13:ZA:202:CYC:HMC3	1.67	0.75
2:B1:138:LYS:O	2:B1:141:HIS:CD2	2.40	0.75
5:A2:73:GLN:HE22	4:N2:227:GLY:HA2	1.50	0.75
3:C2:144:ASN:ND2	3:C2:158:ILE:CD1	2.49	0.75
3:I2:58:ARG:HH22	2:J2:73:PRO:HB2	1.44	0.75
2:J2:123:PHE:CE2	13:J2:1001:CYC:CAA	2.69	0.75
2:L2:34:ARG:HH21	2:L2:150:GLU:CB	1.99	0.75
6:A3:83:ILE:HD11	6:A3:159:PRO:CD	2.15	0.75
3:K3:83:CYS:CB	13:K3:201:CYC:HMB3	2.10	0.75
2:L3:34:ARG:HH21	2:L3:150:GLU:CB	1.99	0.75
2:B4:138:LYS:O	2:B4:141:HIS:CD2	2.40	0.75
3:C4:79:ARG:O	13:C4:301:CYC:HMD2	1.85	0.75
3:C4:154:CYS:SG	13:C4:302:CYC:CBC	2.75	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F6:34:ARG:HH12	2:F6:146:GLN:CG	2.00	0.75
3:T6:38:ARG:HG2	3:T6:157:LEU:HD22	1.67	0.75
6:A7:88:LYS:HE2	6:A7:137:HIS:O	1.87	0.75
2:L7:31:ARG:NH2	2:L7:35:ALA:HB1	2.00	0.75
9:G8:43:ARG:NH2	10:09:657:GLU:OE1	2.20	0.75
7:n8:110:ILE:CD1	10:09:954:ARG:NE	2.50	0.75
3:VA:60:LEU:CD2	13:VA:201:CYC:CAB	2.65	0.75
2:F1:119:ILE:HD13	13:F1:1001:CYC:HMA1	1.66	0.75
2:L1:51:ARG:HH12	3:C3:148:GLY:HA2	1.47	0.75
2:D2:85:CYS:HA	13:D2:1001:CYC:HAC2	1.67	0.75
3:G2:66:GLN:HG3	7:d9:66:VAL:HG12	1.69	0.75
2:O2:73:PRO:HB2	3:T2:58:ARG:HH22	1.51	0.75
3:T5:114:LEU:HD13	13:T5:201:CYC:CAC	2.17	0.75
5:A6:52:TYR:HB3	5:A6:61:ILE:HG22	1.67	0.75
2:D6:31:ARG:NH2	2:D6:35:ALA:HB2	1.97	0.75
2:O6:31:ARG:HH22	2:O6:35:ALA:HB1	1.50	0.75
2:S6:119:ILE:CD1	13:S6:1001:CYC:CMA	2.64	0.75
2:LA:34:ARG:NE	2:LA:150:GLU:OE2	2.17	0.75
3:E1:83:CYS:SG	13:E1:201:CYC:C1C	2.71	0.75
3:I1:68:ILE:HD13	13:J1:1001:CYC:O1A	1.87	0.75
3:R2:154:CYS:HB2	13:U2:201:CYC:H2C	1.68	0.75
2:S2:22:ASN:O	2:S2:26:GLN:HG3	1.87	0.75
6:A3:103:TYR:OH	13:A3:301:CYC:CMA	2.34	0.75
2:F3:13:ALA:HB2	2:F3:24:GLU:CD	2.12	0.75
2:L3:31:ARG:NH2	2:L3:35:ALA:HB1	2.00	0.75
3:I4:119:GLN:HG2	3:T4:119:GLN:HA	1.69	0.75
2:B5:35:ALA:CB	3:C5:32:VAL:HG11	2.16	0.75
2:W6:31:ARG:O	2:W6:31:ARG:HD3	1.86	0.75
3:X6:144:ASN:HA	13:X6:202:CYC:HBB1	1.69	0.75
3:X6:144:ASN:OD1	13:X6:202:CYC:HBB1	1.87	0.75
6:A7:104:ARG:NE	6:A7:108:ILE:CD1	2.41	0.75
3:M7:157:LEU:O	3:M7:161:VAL:CG2	2.34	0.75
8:I8:84:ARG:NH2	13:I8:1001:CYC:O2A	2.20	0.75
7:X8:14:GLU:HG2	10:19:955:LYS:NZ	2.02	0.75
8:o8:82:CYS:SG	13:o8:1001:CYC:C4C	2.75	0.75
3:GA:68:ILE:HD11	13:GA:1001:CYC:O1A	1.86	0.75
3:RA:154:CYS:CB	13:RA:201:CYC:HAC2	2.17	0.75
3:M1:76:THR:HG22	3:M1:79:ARG:HE	1.51	0.75
5:A2:58:GLU:O	5:A2:61:ILE:HG12	1.87	0.75
5:A2:195:ARG:HH12	3:G2:66:GLN:HE22	1.35	0.75
2:F2:31:ARG:NH1	3:G2:6:PHE:CD1	2.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G2:87:MET:HE1	13:G2:202:CYC:HBC1	1.68	0.75
2:L2:29:ARG:NH1	13:M2:201:CYC:HMD2	2.01	0.75
2:W2:31:ARG:O	2:W2:31:ARG:HD3	1.86	0.75
1:A4:54:PHE:HB3	1:A4:58:VAL:CG2	2.17	0.75
4:N4:155:GLU:CA	4:N4:157:GLN:HE22	2.00	0.75
3:T4:83:CYS:SG	13:T4:202:CYC:C2B	2.75	0.75
2:L5:32:TYR:CE1	3:M5:35:GLY:HA2	2.01	0.75
4:N5:237:TYR:CE2	4:N5:263:TYR:CD1	2.74	0.75
5:A6:58:GLU:O	5:A6:61:ILE:HG12	1.87	0.75
2:D6:74:GLN:OE1	2:D6:124:ASP:HB2	1.86	0.75
2:B7:78:ASP:OD2	2:B7:81:GLY:N	2.18	0.75
2:D7:29:ARG:HB2	13:E7:202:CYC:HBB2	1.69	0.75
3:I7:87:MET:CE	13:I7:201:CYC:HBC3	2.11	0.75
8:B8:77:ARG:HD3	10:09:542:GLU:OE1	1.86	0.75
8:K8:84:ARG:NH2	13:K8:1001:CYC:O2A	2.20	0.75
8:R8:84:ARG:NH2	13:R8:1001:CYC:O2A	2.20	0.75
7:n8:16:ARG:HA	10:09:989:GLN:HE21	1.52	0.75
8:o8:82:CYS:CB	13:o8:1001:CYC:HAC2	2.16	0.75
8:u8:84:ARG:NH2	13:19:1201:CYC:O2A	2.20	0.75
3:GA:157:LEU:C	3:GA:157:LEU:HD12	2.12	0.75
3:I1:119:GLN:HG2	3:T1:119:GLN:HA	1.69	0.75
3:T1:83:CYS:SG	13:T1:202:CYC:C2B	2.75	0.75
2:D2:29:ARG:HB2	13:E2:202:CYC:HBB2	1.69	0.75
2:Q2:88:ASP:CA	13:Q2:201:CYC:HMB2	2.14	0.75
13:T2:201:CYC:HAB1	2:Y2:34:ARG:CZ	2.11	0.75
2:U2:73:PRO:HB2	3:Z2:58:ARG:HH12	1.51	0.75
2:D3:29:ARG:HB2	13:E3:202:CYC:HBB2	1.69	0.75
3:Z4:79:ARG:O	13:Z4:202:CYC:HMD2	1.85	0.75
3:G6:87:MET:HE1	13:G6:202:CYC:HBC1	1.68	0.75
2:O6:29:ARG:HH12	13:W6:201:CYC:HMD1	1.51	0.75
7:S8:25:ARG:CD	7:w9:25:ARG:CZ	2.64	0.75
2:BA:35:ALA:CB	3:CA:32:VAL:HG11	2.16	0.75
3:CA:157:LEU:C	3:CA:157:LEU:HD12	2.12	0.75
2:H1:85:CYS:SG	13:H1:1001:CYC:HAC2	2.27	0.74
13:C2:202:CYC:CAB	2:J2:34:ARG:CZ	2.64	0.74
2:O2:24:GLU:OE2	2:O2:24:GLU:N	2.19	0.74
2:O2:73:PRO:HB2	3:T2:58:ARG:CZ	2.17	0.74
3:K3:144:ASN:CG	3:K3:158:ILE:CD1	2.60	0.74
2:H4:85:CYS:SG	13:H4:1001:CYC:HAC2	2.27	0.74
3:K4:83:CYS:HB3	13:K4:201:CYC:C1B	2.17	0.74
3:C5:157:LEU:HD12	3:C5:157:LEU:C	2.12	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G5:157:LEU:HD12	3:G5:157:LEU:C	2.12	0.74
2:Q6:34:ARG:NH1	2:Q6:146:GLN:NE2	2.35	0.74
3:R6:154:CYS:HB2	13:U6:201:CYC:H2C	1.68	0.74
6:A7:11:SER:OG	6:A7:119:TYR:C	2.30	0.74
4:N7:230:VAL:HG23	4:N7:265:ARG:NH2	2.02	0.74
8:Y8:113:LEU:HD21	13:Y8:1001:CYC:CMB	2.14	0.74
13:d8:1001:CYC:HB	10:09:1001:SER:HB3	1.52	0.74
13:d8:1001:CYC:HBA2	10:09:1004:ARG:HB2	1.68	0.74
8:k8:84:ARG:NH2	13:k8:1001:CYC:O2A	2.20	0.74
7:p8:15:ALA:CB	10:19:1065:ASN:HA	2.17	0.74
8:q8:84:ARG:NH2	13:q8:1001:CYC:O2A	2.20	0.74
3:GA:154:CYS:SG	13:GA:1002:CYC:HBC2	2.27	0.74
4:NA:4:THR:OG1	3:TA:78:ARG:NH1	2.20	0.74
2:J1:74:GLN:HA	13:J1:1001:CYC:HBD2	1.68	0.74
2:S1:91:HIS:HB3	13:S1:1001:CYC:HAB1	1.69	0.74
2:O2:30:GLY:CA	2:W2:30:GLY:CA	2.65	0.74
6:A3:96:VAL:O	6:A3:105:LEU:HD21	1.87	0.74
2:D3:85:CYS:HA	13:D3:1001:CYC:HAC2	1.67	0.74
3:G3:87:MET:HE1	13:G3:201:CYC:HBC1	1.68	0.74
3:P4:89:ILE:HG22	13:P4:201:CYC:CBB	2.03	0.74
13:A5:301:CYC:O2A	3:C5:85:ARG:NH2	2.18	0.74
3:V5:60:LEU:HD22	13:V5:201:CYC:CBB	1.86	0.74
2:F6:13:ALA:HB2	2:F6:24:GLU:CD	2.12	0.74
3:R6:157:LEU:O	3:R6:161:VAL:HG23	1.87	0.74
6:A7:96:VAL:O	6:A7:105:LEU:HD21	1.87	0.74
2:F7:13:ALA:HB2	2:F7:24:GLU:CD	2.12	0.74
8:B8:84:ARG:NH2	13:B8:1001:CYC:O2A	2.20	0.74
8:D8:84:ARG:NH2	13:D8:1001:CYC:O2A	2.20	0.74
8:f8:92:TYR:HH	9:i8:21:ARG:HD3	1.49	0.74
7:i9:115:MET:HE1	13:i9:1001:CYC:CHB	2.18	0.74
13:AA:303:CYC:HBD1	3:GA:121:LEU:HD23	1.67	0.74
2:LA:31:ARG:HH11	2:LA:103:GLY:HA3	1.50	0.74
3:ZA:89:ILE:HG12	13:ZA:201:CYC:HBB3	1.67	0.74
1:A1:95:LEU:CG	1:A1:176:ARG:NH2	2.49	0.74
3:C1:16:ARG:O	8:d8:18:LYS:NZ	2.20	0.74
2:U2:74:GLN:OE1	2:U2:124:ASP:HB2	1.87	0.74
13:W2:203:CYC:HBB1	3:X2:144:ASN:OD1	1.87	0.74
3:Z2:83:CYS:HB2	13:Z2:202:CYC:HAC2	0.77	0.74
6:A3:133:SER:O	2:B3:17:GLY:HA3	1.88	0.74
6:A3:135:GLY:HA3	2:B3:15:THR:HA	1.67	0.74
2:B3:85:CYS:SG	13:B3:1001:CYC:HAC2	2.28	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K3:144:ASN:HB2	3:K3:158:ILE:HD11	1.69	0.74
2:L3:29:ARG:NH1	13:M3:201:CYC:HMD2	2.01	0.74
3:E4:154:CYS:SG	13:E4:202:CYC:HBC1	2.23	0.74
3:K4:126:SER:CB	3:T4:12:GLN:NE2	2.44	0.74
2:L4:51:ARG:CZ	3:C7:148:GLY:C	2.54	0.74
2:H5:31:ARG:HH11	2:H5:103:GLY:HA3	1.52	0.74
5:A6:103:ASN:CG	3:C6:112:ASN:ND2	2.43	0.74
2:D6:85:CYS:HA	13:D6:1001:CYC:HAC2	1.68	0.74
3:I6:87:MET:CE	13:I6:201:CYC:HBC3	2.11	0.74
2:L6:29:ARG:NH1	13:M6:201:CYC:HMD2	2.01	0.74
2:O6:129:TRP:CE3	13:O6:1001:CYC:HMC3	2.23	0.74
6:A7:110:LEU:HD22	6:A7:114:LEU:CD1	2.16	0.74
2:B7:85:CYS:SG	13:B7:1001:CYC:HAC2	2.28	0.74
4:N7:238:ARG:NH2	4:N7:258:VAL:HG11	2.03	0.74
7:X9:115:MET:HE1	13:X9:1001:CYC:CHB	2.18	0.74
7:s9:115:MET:HE1	13:s9:1001:CYC:CHB	2.18	0.74
8:t9:63:TYR:HB2	5:AA:205:LYS:HD2	1.70	0.74
5:AA:174:LEU:C	5:AA:174:LEU:HD12	2.12	0.74
3:ZA:83:CYS:CB	13:ZA:201:CYC:HAC2	2.17	0.74
1:A1:168:ARG:HB2	1:A1:173:VAL:HG21	1.69	0.74
4:N1:68:THR:OG1	4:N1:145:ASP:HB3	1.88	0.74
4:N1:155:GLU:CA	4:N1:157:GLN:HE22	2.00	0.74
2:O2:29:ARG:HH12	13:W2:201:CYC:HMD1	1.51	0.74
2:B3:31:ARG:HH11	2:B3:102:ALA:C	1.94	0.74
2:S4:91:HIS:HB3	13:S4:1001:CYC:HAB1	1.69	0.74
2:B5:35:ALA:O	2:B5:39:LEU:HG	1.87	0.74
3:Z5:83:CYS:CB	13:Z5:201:CYC:HAC2	2.17	0.74
3:K6:144:ASN:CG	3:K6:158:ILE:CD1	2.60	0.74
10:19:857:ASP:CG	9:49:25:ASN:HD21	1.95	0.74
10:19:956:PRO:HG2	10:19:1091:TYR:CE2	2.22	0.74
7:R9:115:MET:HE1	13:R9:1001:CYC:CHB	2.18	0.74
5:AA:42:THR:HG1	2:LA:2:VAL:N	1.85	0.74
2:YA:31:ARG:CZ	2:YA:31:ARG:HB2	2.17	0.74
1:A1:54:PHE:HB3	1:A1:58:VAL:CG2	2.17	0.74
1:A1:201:LEU:HB2	7:c8:52:LYS:HE2	1.69	0.74
1:A1:205:ILE:CG2	7:c8:59:PHE:HD2	1.99	0.74
2:L2:100:LEU:CD2	2:L2:150:GLU:OE2	2.35	0.74
3:C3:152:GLY:HA3	13:C3:201:CYC:HMD3	1.66	0.74
2:F3:34:ARG:HH12	2:F3:146:GLN:CG	2.00	0.74
1:A4:168:ARG:HB2	1:A4:173:VAL:HG21	1.69	0.74
3:E5:154:CYS:SG	13:E5:201:CYC:C3C	2.75	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:12:SER:HA	6:A7:16:ARG:NH1	2.03	0.74
7:E8:25:ARG:HG2	7:K9:25:ARG:CZ	2.18	0.74
7:S8:25:ARG:HG2	7:w9:25:ARG:HD3	1.68	0.74
7:n8:15:ALA:HB1	10:09:989:GLN:CG	2.16	0.74
7:K9:115:MET:HE1	13:K9:1001:CYC:CHB	2.18	0.74
7:f9:36:ARG:HH12	12:m9:24:LYS:HE2	1.51	0.74
7:k9:115:MET:HE1	13:k9:1001:CYC:CHB	2.18	0.74
13:AA:302:CYC:HBC1	3:EA:87:MET:HE3	1.68	0.74
2:D1:91:HIS:HB2	13:D1:1001:CYC:HMB2	1.69	0.74
2:B2:29:ARG:HH12	3:C2:36:ASN:HD21	1.36	0.74
4:N2:238:ARG:NH2	4:N2:258:VAL:HG11	2.03	0.74
3:V2:58:ARG:CZ	2:W2:73:PRO:HB3	2.15	0.74
2:F3:31:ARG:NH1	3:G3:6:PHE:CD1	2.52	0.74
4:N3:238:ARG:NH2	4:N3:258:VAL:HG11	2.03	0.74
2:B4:86:ALA:HB3	8:W8:26:GLU:HG3	1.59	0.74
3:K4:152:GLY:HA3	13:K4:202:CYC:HMA1	1.69	0.74
3:P4:150:THR:OG1	13:P4:202:CYC:HAA2	1.88	0.74
3:M5:157:LEU:C	3:M5:157:LEU:HD12	2.12	0.74
2:F6:123:PHE:CE2	13:F6:1001:CYC:HAA2	2.23	0.74
2:U6:73:PRO:HB2	3:Z6:58:ARG:HH12	1.50	0.74
6:A7:13:GLN:HA	6:A7:13:GLN:NE2	2.02	0.74
6:A7:133:SER:O	2:B7:17:GLY:HA3	1.88	0.74
2:F1:25:LEU:HD22	13:G1:201:CYC:CBB	2.18	0.74
2:J1:100:LEU:HD21	2:J1:151:ALA:HA	1.70	0.74
4:N1:155:GLU:HB2	4:N1:157:GLN:NE2	2.03	0.74
3:K2:144:ASN:CB	3:K2:158:ILE:HD11	2.18	0.74
3:R2:38:ARG:NH2	3:R2:101:GLY:HA2	2.01	0.74
6:A3:11:SER:OG	6:A3:119:TYR:O	2.06	0.74
2:L3:100:LEU:CD2	2:L3:150:GLU:OE2	2.35	0.74
2:F4:25:LEU:HD22	13:G4:201:CYC:CBB	2.18	0.74
2:O4:123:PHE:CD2	13:O4:1001:CYC:HAA2	2.23	0.74
5:A5:174:LEU:C	5:A5:174:LEU:HD12	2.12	0.74
2:L5:34:ARG:NE	2:L5:150:GLU:OE2	2.17	0.74
2:F6:31:ARG:NH1	3:G6:6:PHE:CD1	2.52	0.74
2:L6:119:ILE:HD11	13:L6:201:CYC:CMA	2.16	0.74
3:G7:154:CYS:SG	13:G7:202:CYC:C2C	2.74	0.74
8:F8:84:ARG:NH2	13:F8:1001:CYC:O2A	2.20	0.74
7:L8:25:ARG:CG	7:Z9:25:ARG:NH1	2.50	0.74
7:f9:115:MET:HE1	13:f9:1001:CYC:CHB	2.18	0.74
13:Q1:202:CYC:HMD2	3:R1:152:GLY:N	2.02	0.74
2:B2:85:CYS:SG	13:B2:1001:CYC:HAC2	2.28	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F2:123:PHE:CE2	13:F2:1001:CYC:HAA2	2.23	0.74
4:N2:230:VAL:HG23	4:N2:265:ARG:NH2	2.03	0.74
3:X2:38:ARG:HG2	3:X2:157:LEU:HD22	1.69	0.74
6:A3:88:LYS:HE2	6:A3:137:HIS:O	1.87	0.74
2:B4:53:ILE:HD12	8:W8:22:THR:CG2	2.17	0.74
2:H4:146:GLN:CD	2:H4:146:GLN:H	1.95	0.74
3:I4:73:ASN:ND2	13:I4:201:CYC:HMD2	2.02	0.74
3:V4:68:ILE:HD13	13:W4:1001:CYC:O1A	1.88	0.74
3:E5:157:LEU:HD23	3:E5:157:LEU:C	2.13	0.74
3:P5:121:LEU:CD2	13:P5:201:CYC:HBD1	2.16	0.74
2:B6:85:CYS:SG	13:B6:1001:CYC:HAC2	2.28	0.74
2:L6:34:ARG:HH21	2:L6:150:GLU:CB	1.99	0.74
4:N6:47:ASP:CG	4:N6:85:LYS:HZ2	1.95	0.74
8:f8:92:TYR:CZ	9:i8:21:ARG:HD3	2.21	0.74
8:h8:84:ARG:NH2	13:h8:1001:CYC:O2A	2.20	0.74
7:A9:115:MET:HE1	13:A9:1001:CYC:CHB	2.18	0.74
7:w9:115:MET:HE1	13:w9:1001:CYC:CHB	2.18	0.74
2:HA:31:ARG:HH11	2:HA:103:GLY:HA3	1.52	0.74
3:ZA:44:ARG:NH1	3:ZA:142:ILE:O	2.21	0.74
1:A1:195:ILE:HG23	7:c8:80:THR:N	2.03	0.74
2:O1:123:PHE:CD2	13:O1:1001:CYC:HAA2	2.23	0.74
3:P1:150:THR:OG1	13:P1:202:CYC:HAA2	1.88	0.74
3:G2:41:VAL:HG23	13:G2:201:CYC:HAC1	1.70	0.74
2:H2:31:ARG:HH21	2:H2:35:ALA:CA	2.01	0.74
3:M2:38:ARG:HH22	3:M2:101:GLY:HA2	1.53	0.74
2:Q2:34:ARG:NH1	2:Q2:146:GLN:NE2	2.35	0.74
3:R2:121:LEU:CD2	13:R2:1001:CYC:HAA2	2.18	0.74
3:R2:157:LEU:O	3:R2:161:VAL:HG23	1.87	0.74
2:W2:31:ARG:HH11	2:W2:103:GLY:HA3	1.52	0.74
3:Z2:154:CYS:SG	13:Z2:201:CYC:HMB2	2.28	0.74
6:A3:11:SER:OG	6:A3:119:TYR:C	2.30	0.74
6:A3:12:SER:HA	6:A3:16:ARG:NH1	2.03	0.74
3:K3:144:ASN:CB	3:K3:158:ILE:HD11	2.18	0.74
3:K6:144:ASN:CB	3:K6:158:ILE:HD11	2.18	0.74
2:Q6:31:ARG:HD3	2:Q6:31:ARG:O	1.88	0.74
3:R6:83:CYS:HB3	13:R6:1001:CYC:HAC2	1.68	0.74
2:U6:74:GLN:OE1	2:U6:124:ASP:HB2	1.87	0.74
2:H7:31:ARG:HD3	2:H7:31:ARG:O	1.88	0.74
3:I7:83:CYS:HB3	13:I7:201:CYC:C4C	2.18	0.74
8:M8:84:ARG:NH2	13:M8:1001:CYC:O2A	2.20	0.74
8:T8:84:ARG:NH2	13:T8:1001:CYC:O2A	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Y8:84:ARG:NH2	13:Y8:1001:CYC:O2A	2.20	0.74
7:e8:106:GLU:OE2	10:09:969:ALA:CB	2.36	0.74
8:m8:120:LEU:HD22	10:09:948:GLY:C	2.13	0.74
7:u9:115:MET:HE1	13:u9:1001:CYC:CHB	2.18	0.74
3:VA:89:ILE:HG21	13:VA:201:CYC:H3C	1.70	0.74
2:D1:29:ARG:HD2	13:E1:202:CYC:OB	1.88	0.74
3:C2:144:ASN:HD22	3:C2:158:ILE:HD13	1.52	0.74
3:C3:93:TYR:HD2	3:C3:110:CYS:SG	2.08	0.74
3:C3:144:ASN:HD22	3:C3:158:ILE:HD13	1.52	0.74
3:G3:154:CYS:SG	13:G3:202:CYC:C2C	2.74	0.74
4:N4:68:THR:OG1	4:N4:145:ASP:HB3	1.88	0.74
13:Q4:202:CYC:HMD2	3:R4:152:GLY:N	2.02	0.74
3:V4:68:ILE:CD1	13:W4:1001:CYC:O2A	2.35	0.74
3:X4:128:VAL:CG2	13:X4:201:CYC:HMC3	2.17	0.74
2:J5:34:ARG:HH11	2:J5:150:GLU:CD	1.95	0.74
3:V5:60:LEU:CD2	13:V5:201:CYC:CAB	2.65	0.74
3:E6:150:THR:OG1	13:E6:202:CYC:HAD1	1.88	0.74
2:F7:31:ARG:NH1	3:G7:6:PHE:CD1	2.52	0.74
3:G7:41:VAL:CG2	13:G7:202:CYC:HAC1	2.18	0.74
3:K7:83:CYS:CB	13:K7:201:CYC:HMB3	2.09	0.74
3:K7:144:ASN:HB2	3:K7:158:ILE:HD11	1.69	0.74
7:G9:115:MET:HE1	13:G9:1001:CYC:CHB	2.18	0.74
7:Z9:115:MET:HE1	13:Z9:1001:CYC:CHB	2.18	0.74
7:d9:115:MET:HE1	13:d9:1001:CYC:CHB	2.18	0.74
3:XA:157:LEU:C	3:XA:157:LEU:HD12	2.13	0.74
1:A1:207:ILE:HD12	1:A1:207:ILE:O	1.86	0.73
3:C1:13:ALA:CB	3:C1:20:LEU:HD23	2.18	0.73
5:A2:243:TYR:HE1	7:J8:52:LYS:HE3	1.53	0.73
3:C2:152:GLY:HA3	13:C2:202:CYC:HMD2	1.64	0.73
2:O2:31:ARG:HH22	2:O2:35:ALA:HB1	1.50	0.73
2:O2:74:GLN:OE1	2:O2:124:ASP:HB2	1.87	0.73
2:Q2:31:ARG:O	2:Q2:31:ARG:HD3	1.87	0.73
3:X2:58:ARG:CZ	2:Y2:73:PRO:HB3	2.17	0.73
3:C4:13:ALA:CB	3:C4:20:LEU:HD23	2.18	0.73
3:C5:150:THR:O	13:C5:201:CYC:HMD2	1.86	0.73
3:G5:154:CYS:SG	13:G5:201:CYC:HBC2	2.27	0.73
4:N5:4:THR:OG1	3:T5:78:ARG:NH1	2.20	0.73
3:V5:89:ILE:HG21	13:V5:201:CYC:H3C	1.70	0.73
3:E7:150:THR:OG1	13:E7:202:CYC:HAD1	1.88	0.73
3:G7:41:VAL:HG23	13:G7:202:CYC:HAC1	1.70	0.73
7:H8:27:LYS:HG3	8:I8:39:VAL:HG11	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I9:115:MET:HE1	13:I9:1001:CYC:CHB	2.18	0.73
7:T9:115:MET:HE1	13:T9:1001:CYC:CHB	2.18	0.73
7:b9:115:MET:HE1	13:b9:1001:CYC:CHB	2.18	0.73
4:NA:162:THR:HG22	13:TA:201:CYC:HAC2	1.70	0.73
3:I1:126:SER:CB	3:T1:71:GLY:O	2.36	0.73
4:N1:62:LEU:HD21	4:N1:72:PHE:HB2	1.68	0.73
3:G2:41:VAL:CG2	13:G2:201:CYC:HAC1	2.18	0.73
3:G3:41:VAL:HG23	13:G3:202:CYC:HAC1	1.70	0.73
3:M3:38:ARG:HH22	3:M3:101:GLY:HA2	1.53	0.73
3:V4:152:GLY:HA3	13:V4:201:CYC:CMA	2.18	0.73
13:A5:302:CYC:HBC1	3:E5:87:MET:HE3	1.68	0.73
3:C6:152:GLY:HA3	13:C6:202:CYC:HMD3	1.66	0.73
3:G6:34:GLU:OE2	3:G6:157:LEU:HD22	1.82	0.73
2:O6:29:ARG:HH11	13:W6:201:CYC:HMD2	1.51	0.73
2:O6:73:PRO:HB2	3:T6:58:ARG:CZ	2.17	0.73
3:C7:144:ASN:HD22	3:C7:158:ILE:HD13	1.52	0.73
2:D7:31:ARG:NH2	2:D7:35:ALA:HB2	1.97	0.73
8:K8:11:ASN:HD21	10:19:536:ALA:HB1	1.54	0.73
8:f8:84:ARG:NH2	13:f8:1001:CYC:O2A	2.20	0.73
7:n8:110:ILE:HD11	10:09:954:ARG:CZ	2.15	0.73
7:P9:115:MET:HE1	13:P9:1001:CYC:CHB	2.18	0.73
7:q9:115:MET:HE1	13:q9:1001:CYC:CHB	2.18	0.73
13:UA:1001:CYC:O2A	3:ZA:68:ILE:CD1	2.36	0.73
2:B1:53:ILE:HD13	8:d8:22:THR:HG21	1.70	0.73
3:K1:79:ARG:HB3	13:K1:201:CYC:O1A	1.89	0.73
3:M1:26:ASP:OD1	2:J3:51:ARG:NH1	2.21	0.73
3:X1:128:VAL:CG2	13:X1:201:CYC:HMC3	2.17	0.73
2:W2:29:ARG:CG	13:W2:203:CYC:C1C	2.63	0.73
2:W2:31:ARG:NH1	2:W2:103:GLY:CA	2.52	0.73
6:A3:97:ALA:HA	6:A3:105:LEU:CD1	2.18	0.73
6:A3:110:LEU:HD22	6:A3:114:LEU:CD1	2.16	0.73
6:A3:129:ILE:HD11	3:C3:85:ARG:HH11	1.52	0.73
1:A4:168:ARG:HB3	1:A4:173:VAL:HG22	1.70	0.73
3:E4:152:GLY:HA3	13:E4:202:CYC:HMD3	1.69	0.73
3:Z4:87:MET:SD	13:Z4:202:CYC:HBC1	2.28	0.73
5:A5:222:LEU:O	5:A5:222:LEU:HD23	1.88	0.73
3:X5:87:MET:CE	13:X5:201:CYC:CBC	2.59	0.73
3:X5:157:LEU:C	3:X5:157:LEU:HD12	2.13	0.73
2:D6:29:ARG:HB2	13:E6:202:CYC:HBB2	1.69	0.73
4:N6:238:ARG:NH2	4:N6:258:VAL:HG11	2.03	0.73
2:O6:74:GLN:OE1	2:O6:124:ASP:HB2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V6:58:ARG:NH2	2:W6:73:PRO:CG	2.51	0.73
6:A7:103:TYR:OH	13:A7:301:CYC:CMA	2.34	0.73
8:W8:84:ARG:NH2	13:W8:1001:CYC:O2A	2.20	0.73
8:o8:11:ASN:OD1	10:09:945:VAL:HG23	1.87	0.73
5:AA:44:ILE:CG2	5:AA:75:LYS:HG2	2.16	0.73
2:BA:35:ALA:O	2:BA:39:LEU:HG	1.87	0.73
4:NA:70:ARG:HH22	4:NA:140:GLN:HE21	1.35	0.73
3:XA:121:LEU:HD23	13:XA:201:CYC:HBD1	1.69	0.73
3:E1:154:CYS:SG	13:E1:202:CYC:HBC1	2.23	0.73
5:A2:230:GLY:HA2	7:X9:63:PRO:HB2	1.70	0.73
2:B3:78:ASP:OD2	2:B3:81:GLY:N	2.18	0.73
2:F3:119:ILE:CD1	13:F3:1001:CYC:HMA3	2.19	0.73
3:G4:70:PRO:HG2	8:W8:18:LYS:CE	2.18	0.73
3:I4:93:TYR:CE2	13:I4:201:CYC:HBB1	2.24	0.73
3:I4:126:SER:CB	3:T4:71:GLY:O	2.36	0.73
3:M4:127:SER:HB3	13:M4:201:CYC:CMC	2.18	0.73
3:T4:83:CYS:HB2	13:T4:202:CYC:HMA2	1.71	0.73
5:A5:208:GLU:O	5:A5:209:LYS:O	2.07	0.73
5:A6:229:GLN:HA	7:I9:66:VAL:HG13	1.65	0.73
3:C6:144:ASN:HD22	3:C6:158:ILE:HD13	1.52	0.73
3:M6:44:ARG:NH2	3:M6:149:ILE:HG13	2.03	0.73
3:K7:144:ASN:CB	3:K7:158:ILE:HD11	2.18	0.73
2:L7:100:LEU:CD2	2:L7:150:GLU:OE2	2.35	0.73
8:P8:77:ARG:NE	10:09:738:LYS:HG3	2.02	0.73
8:m8:84:ARG:NH2	13:09:1201:CYC:O2A	2.20	0.73
7:t8:106:GLU:OE1	10:19:951:THR:HG22	1.87	0.73
8:u8:119:SER:HB3	10:19:1114:LYS:HB2	1.69	0.73
7:o9:79:ALA:HB1	5:AA:198:LEU:HD23	1.70	0.73
5:AA:174:LEU:HD11	3:GA:112:ASN:O	1.88	0.73
2:JA:34:ARG:HH11	2:JA:150:GLU:CD	1.95	0.73
4:NA:54:ARG:CG	4:NA:59:GLU:OE2	2.18	0.73
2:YA:29:ARG:HD3	13:ZA:202:CYC:C1C	2.18	0.73
3:G1:36:ASN:HD21	13:G1:201:CYC:HAA2	1.54	0.73
3:K1:83:CYS:CB	13:K1:201:CYC:HMB3	2.14	0.73
2:F2:119:ILE:CD1	13:F2:1001:CYC:HMA3	2.19	0.73
3:Z2:43:ASN:CG	13:Z2:201:CYC:HBC3	2.14	0.73
2:F3:123:PHE:CE2	13:F3:1001:CYC:HAA2	2.23	0.73
2:H3:31:ARG:CZ	2:H3:103:GLY:CA	2.66	0.73
3:I3:87:MET:HE2	13:I3:201:CYC:HBC1	0.74	0.73
3:K3:121:LEU:HG	13:K3:201:CYC:O2D	1.88	0.73
2:J5:31:ARG:HH12	2:J5:103:GLY:CA	1.98	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M5:144:ASN:C	13:M5:1003:CYC:HBB1	2.13	0.73
2:U6:32:TYR:CD2	3:V6:35:GLY:HA3	2.24	0.73
2:Y6:31:ARG:HD3	2:Y6:31:ARG:O	1.88	0.73
3:K7:121:LEU:HG	13:K7:201:CYC:O2D	1.88	0.73
7:H8:151:SER:O	7:X9:20:PRO:HG2	1.89	0.73
10:19:432:LYS:HB3	8:e9:111:ASN:HD21	1.53	0.73
7:C9:115:MET:HE1	13:C9:1001:CYC:CHB	2.18	0.73
7:E9:115:MET:HE1	13:E9:1001:CYC:CHB	2.18	0.73
2:B1:53:ILE:HD11	8:d8:22:THR:HG21	1.70	0.73
3:E1:78:ARG:O	3:E1:78:ARG:HD2	1.89	0.73
2:W1:100:LEU:HD21	2:W1:151:ALA:HA	1.70	0.73
3:E2:83:CYS:HB2	13:E2:201:CYC:CAC	2.15	0.73
3:G2:41:VAL:HG21	13:G2:201:CYC:CBC	2.19	0.73
2:O2:31:ARG:NH2	2:O2:35:ALA:CA	2.52	0.73
2:S2:119:ILE:CD1	13:S2:1001:CYC:CMA	2.64	0.73
2:D3:85:CYS:SG	13:D3:1001:CYC:HAC2	2.29	0.73
3:G3:41:VAL:HG21	13:G3:202:CYC:CBC	2.19	0.73
4:N4:155:GLU:HB2	4:N4:157:GLN:NE2	2.03	0.73
2:W4:100:LEU:HD21	2:W4:151:ALA:HA	1.70	0.73
5:A5:174:LEU:HD11	3:G5:112:ASN:O	1.88	0.73
5:A5:201:PHE:HB2	7:u9:76:GLU:HG3	1.70	0.73
2:Y5:31:ARG:HH22	2:Y5:35:ALA:HB2	1.53	0.73
2:S6:22:ASN:O	2:S6:26:GLN:HG3	1.87	0.73
2:F7:119:ILE:CD1	13:F7:1001:CYC:HMA3	2.19	0.73
2:F7:123:PHE:CE2	13:F7:1001:CYC:HAA2	2.23	0.73
7:n8:15:ALA:HB1	10:09:989:GLN:CB	2.19	0.73
10:09:522:ASP:O	10:09:523:GLN:CG	2.37	0.73
1:A1:209:THR:CB	7:c8:67:SER:HA	2.19	0.73
2:B1:123:PHE:CD2	13:B1:1001:CYC:HAA2	2.24	0.73
2:F1:85:CYS:SG	13:F1:1001:CYC:HAC2	2.28	0.73
3:I1:73:ASN:ND2	13:I1:201:CYC:HMD2	2.02	0.73
2:B2:31:ARG:HH11	2:B2:103:GLY:HA3	1.54	0.73
2:F2:13:ALA:HB2	2:F2:24:GLU:CD	2.12	0.73
2:F2:34:ARG:HH12	2:F2:146:GLN:CG	2.00	0.73
3:K2:144:ASN:HB2	3:K2:158:ILE:HD11	1.68	0.73
2:Y2:31:ARG:O	2:Y2:31:ARG:HD3	1.88	0.73
3:E3:150:THR:OG1	13:E3:202:CYC:HAD1	1.88	0.73
2:F4:85:CYS:SG	13:F4:1001:CYC:HAC2	2.28	0.73
5:A5:64:PHE:HZ	2:J5:18:ARG:HD2	1.53	0.73
3:R5:154:CYS:CB	13:R5:201:CYC:HAC2	2.17	0.73
2:Y5:29:ARG:HD3	13:Z5:202:CYC:C1C	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A6:195:ARG:HH12	3:G6:66:GLN:HE22	1.35	0.73
3:C6:154:CYS:HG	13:C6:202:CYC:HAC2	1.54	0.73
3:X6:38:ARG:HD2	3:X6:157:LEU:HD21	1.70	0.73
3:I7:87:MET:HE2	13:I7:201:CYC:HBC1	0.73	0.73
7:N9:115:MET:HE1	13:N9:1001:CYC:CHB	2.18	0.73
3:MA:157:LEU:C	3:MA:157:LEU:HD12	2.12	0.73
1:A1:61:LYS:O	1:A1:61:LYS:HD2	1.89	0.73
2:L1:40:GLU:HG2	2:J3:140:ASN:ND2	1.88	0.73
3:V1:128:VAL:HG22	13:V1:202:CYC:CMB	2.19	0.73
3:I2:87:MET:HE2	13:I2:201:CYC:HBC1	0.74	0.73
1:A4:201:LEU:HB2	7:V8:52:LYS:HE2	1.70	0.73
5:A5:39:SER:HB2	3:M5:109:ARG:HH21	1.53	0.73
3:Z5:44:ARG:HG3	3:Z5:142:ILE:CG2	2.18	0.73
2:D6:98:TYR:OH	3:E6:18:GLU:O	2.07	0.73
3:I6:83:CYS:HB3	13:I6:201:CYC:C4C	2.18	0.73
2:L6:100:LEU:CD2	2:L6:150:GLU:OE2	2.35	0.73
3:V6:89:ILE:HG21	13:V6:202:CYC:CMC	2.18	0.73
5:AA:131:ILE:C	5:AA:131:ILE:HD13	2.14	0.73
3:XA:93:TYR:CD2	13:XA:201:CYC:HBB1	2.22	0.73
1:A1:209:THR:HG21	7:c8:66:VAL:C	2.13	0.73
2:H1:146:GLN:CD	2:H1:146:GLN:H	1.95	0.73
3:V1:68:ILE:HD13	13:W1:1001:CYC:O1A	1.88	0.73
2:B2:78:ASP:OD2	2:B2:81:GLY:N	2.18	0.73
3:E2:150:THR:OG1	13:E2:202:CYC:HAD1	1.88	0.73
3:K2:121:LEU:HG	13:K2:201:CYC:O2D	1.88	0.73
3:V2:89:ILE:HG21	13:V2:202:CYC:CMC	2.18	0.73
6:A3:13:GLN:HA	6:A3:13:GLN:NE2	2.02	0.73
2:D3:98:TYR:OH	3:E3:18:GLU:O	2.07	0.73
1:A4:193:GLY:C	7:V8:83:ARG:HD2	2.12	0.73
3:X5:121:LEU:HD23	13:X5:201:CYC:HBD1	1.69	0.73
3:Z5:44:ARG:NH1	3:Z5:142:ILE:O	2.21	0.73
3:V6:68:ILE:HD12	13:W6:202:CYC:O1A	1.88	0.73
6:A7:97:ALA:HA	6:A7:105:LEU:CD1	2.18	0.73
3:M7:44:ARG:NH2	3:M7:149:ILE:HG13	2.03	0.73
8:D8:11:ASN:OD1	10:09:537:SER:CA	2.37	0.73
7:H8:20:PRO:CB	7:X9:151:SER:HG	2.02	0.73
8:P8:84:ARG:NH2	13:P8:1001:CYC:O2A	2.20	0.73
8:a8:84:ARG:NH2	13:b8:1001:CYC:O2A	2.20	0.73
10:09:1096:SER:O	13:09:1201:CYC:OB	2.06	0.73
2:H2:29:ARG:HH12	13:I2:202:CYC:CMD	1.96	0.73
2:F3:123:PHE:CE2	13:F3:1001:CYC:CAA	2.72	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I3:38:ARG:NH2	3:I3:101:GLY:HA2	2.04	0.73
2:D4:91:HIS:HB2	13:D4:1001:CYC:HMB2	1.69	0.73
5:A5:14:ASN:HA	13:A5:302:CYC:CMA	2.19	0.73
4:N5:162:THR:HG22	13:T5:201:CYC:HAC2	1.70	0.73
13:U5:1001:CYC:O2A	3:Z5:68:ILE:CD1	2.36	0.73
5:A6:63:LYS:CE	2:L6:118:GLU:OE2	2.32	0.73
3:R6:121:LEU:CD2	13:R6:1001:CYC:HAA2	2.18	0.73
2:W6:31:ARG:HH11	2:W6:103:GLY:HA3	1.52	0.73
6:A7:80:ARG:HG3	6:A7:144:LEU:HD21	1.70	0.73
6:A7:90:GLU:HB3	2:J7:16:GLN:HG2	1.69	0.73
2:B7:31:ARG:HH11	2:B7:103:GLY:HA3	1.54	0.73
2:F7:123:PHE:CE2	13:F7:1001:CYC:CAA	2.72	0.73
3:G7:154:CYS:CB	13:G7:202:CYC:CBC	2.67	0.73
9:U8:36:ASN:HD21	10:09:842:ASN:CG	1.95	0.73
9:b8:45:GLN:HE22	13:b8:1001:CYC:C4B	1.94	0.73
8:k8:11:ASN:ND2	10:09:1122:PRO:CD	2.52	0.73
13:o8:1001:CYC:HMA3	10:09:986:PHE:CE2	2.24	0.73
8:u8:87:ASP:HB3	10:19:989:GLN:NE2	2.02	0.73
7:o9:115:MET:HE1	13:o9:1001:CYC:CHB	2.18	0.73
7:y9:115:MET:HE1	13:y9:1001:CYC:CHB	2.18	0.73
5:AA:14:ASN:HA	13:AA:302:CYC:CMA	2.19	0.73
3:EA:154:CYS:SG	13:EA:201:CYC:CBC	2.76	0.73
3:MA:144:ASN:C	13:MA:1003:CYC:HBB1	2.13	0.73
2:D2:85:CYS:SG	13:D2:1001:CYC:HAC2	2.29	0.72
4:N2:4:THR:OG1	3:T2:78:ARG:NH2	2.22	0.72
6:A3:90:GLU:HB3	2:J3:16:GLN:HG2	1.69	0.72
3:I3:83:CYS:HB3	13:I3:201:CYC:C4C	2.18	0.72
3:M3:44:ARG:NH2	3:M3:149:ILE:HG13	2.03	0.72
2:D4:29:ARG:HD2	13:E4:202:CYC:OB	1.88	0.72
3:E4:151:LYS:HZ3	2:Q6:40:GLU:HG2	1.54	0.72
3:I5:93:TYR:CE2	13:I5:201:CYC:HBB1	2.17	0.72
3:X6:58:ARG:CZ	2:Y6:73:PRO:HB3	2.17	0.72
9:U8:24:GLN:HG2	10:09:857:ASP:HB3	1.71	0.72
9:b8:42:GLN:HE22	13:b8:1001:CYC:HBB2	1.54	0.72
10:09:698:GLU:O	10:09:700:GLY:N	2.22	0.72
2:WA:29:ARG:O	2:WA:29:ARG:HD2	1.88	0.72
3:T1:76:THR:CG2	3:T1:79:ARG:HG3	2.19	0.72
3:T1:83:CYS:HB2	13:T1:202:CYC:HMA2	1.70	0.72
3:V2:68:ILE:HD12	13:W2:202:CYC:O1A	1.88	0.72
2:W2:31:ARG:HH21	2:W2:35:ALA:CB	1.77	0.72
2:B3:31:ARG:HH11	2:B3:103:GLY:HA3	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E4:78:ARG:O	3:E4:78:ARG:HD2	1.89	0.72
3:T4:36:ASN:ND2	13:T4:201:CYC:CAA	2.52	0.72
5:A5:131:ILE:C	5:A5:131:ILE:HD13	2.14	0.72
3:E5:154:CYS:SG	13:E5:201:CYC:CBC	2.76	0.72
3:G6:41:VAL:CG2	13:G6:201:CYC:HAC1	2.18	0.72
3:G6:154:CYS:CB	13:G6:201:CYC:CBC	2.67	0.72
3:I6:87:MET:HE2	13:I6:201:CYC:HBC1	0.74	0.72
2:O6:73:PRO:CB	3:T6:58:ARG:NH2	2.48	0.72
6:A7:11:SER:OG	6:A7:119:TYR:O	2.06	0.72
3:G7:41:VAL:HG21	13:G7:202:CYC:CBC	2.19	0.72
8:W8:88:TYR:CE2	10:19:998:GLU:HB3	2.24	0.72
7:p8:9:VAL:HG22	10:19:1024:ARG:CZ	2.19	0.72
10:09:19:THR:HG21	8:M9:7:THR:OG1	1.89	0.72
3:EA:157:LEU:HD23	3:EA:157:LEU:C	2.13	0.72
3:ZA:44:ARG:HG3	3:ZA:142:ILE:CG2	2.18	0.72
2:B1:43:ARG:NH2	3:C1:26:ASP:OD1	2.22	0.72
2:D2:98:TYR:OH	3:E2:18:GLU:O	2.07	0.72
2:F2:34:ARG:HH22	2:F2:146:GLN:HE21	1.38	0.72
3:G2:154:CYS:SG	13:G2:201:CYC:C2C	2.74	0.72
3:Z2:41:VAL:O	3:Z2:45:ILE:HG12	1.89	0.72
6:A3:14:ASN:HA	13:E3:201:CYC:HMA1	0.91	0.72
3:G3:154:CYS:CB	13:G3:202:CYC:CBC	2.67	0.72
2:B4:123:PHE:CD2	13:B4:1001:CYC:HAA2	2.24	0.72
3:G4:154:CYS:CB	13:G4:201:CYC:CBC	2.67	0.72
4:N4:112:SER:HA	4:N4:115:VAL:HG12	1.70	0.72
2:S4:85:CYS:SG	13:S4:1001:CYC:HAC2	2.29	0.72
5:A5:220:ALA:HA	7:q9:79:ALA:CB	2.18	0.72
3:T5:89:ILE:CG1	13:T5:201:CYC:HMC3	2.14	0.72
3:T5:121:LEU:CD2	13:T5:201:CYC:O1A	2.37	0.72
2:F6:123:PHE:CE2	13:F6:1001:CYC:CAA	2.72	0.72
2:O6:31:ARG:NH2	2:O6:35:ALA:CA	2.51	0.72
3:Z6:43:ASN:CG	13:Z6:201:CYC:HBC3	2.14	0.72
7:O8:82:LEU:HD11	5:AA:241:ILE:HG21	1.71	0.72
1:A1:198:PHE:HD1	7:c8:82:LEU:CB	2.01	0.72
3:V1:83:CYS:SG	13:V1:202:CYC:NB	2.62	0.72
2:F2:123:PHE:CE2	13:F2:1001:CYC:CAA	2.72	0.72
3:G2:41:VAL:CG2	13:G2:201:CYC:CBC	2.68	0.72
2:J2:85:CYS:SG	13:J2:1001:CYC:HAC2	2.30	0.72
2:O2:129:TRP:CE3	13:O2:1001:CYC:HMC3	2.23	0.72
2:Q2:30:GLY:CA	2:U2:30:GLY:HA3	2.19	0.72
3:V2:44:ARG:HH21	3:V2:149:ILE:CG1	1.96	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G3:41:VAL:CG2	13:G3:202:CYC:HAC1	2.18	0.72
3:T4:76:THR:CG2	3:T4:79:ARG:HG3	2.20	0.72
2:Y5:31:ARG:CZ	2:Y5:31:ARG:HB2	2.17	0.72
3:K6:121:LEU:HG	13:K6:201:CYC:O2D	1.88	0.72
2:W6:31:ARG:NH1	2:W6:103:GLY:CA	2.52	0.72
3:Z6:83:CYS:CB	13:Z6:202:CYC:CAC	2.49	0.72
6:A7:58:LEU:O	6:A7:60:ILE:HG13	1.89	0.72
3:G7:41:VAL:CG2	13:G7:202:CYC:CBC	2.67	0.72
3:M7:38:ARG:HH22	3:M7:101:GLY:HA2	1.53	0.72
9:49:14:LEU:HD13	9:49:14:LEU:C	2.14	0.72
3:G1:154:CYS:SG	13:G1:201:CYC:C2C	2.77	0.72
3:M1:127:SER:HB3	13:M1:201:CYC:CMC	2.18	0.72
3:V1:152:GLY:HA3	13:V1:201:CYC:CMA	2.19	0.72
5:A2:216:PRO:O	7:X9:79:ALA:HB1	1.88	0.72
3:I2:83:CYS:HB3	13:I2:201:CYC:C4C	2.18	0.72
2:O2:29:ARG:HH11	13:W2:201:CYC:HMD2	1.51	0.72
2:Q2:119:ILE:HD11	13:Q2:201:CYC:CMA	2.17	0.72
2:S2:32:TYR:CE1	3:T2:35:GLY:CA	2.63	0.72
2:U2:32:TYR:CD2	3:V2:35:GLY:HA3	2.24	0.72
3:V2:58:ARG:NH2	2:W2:73:PRO:CG	2.51	0.72
6:A3:58:LEU:O	6:A3:60:ILE:HG13	1.89	0.72
3:G3:71:GLY:CA	2:FA:62:GLN:HE22	1.85	0.72
5:A6:86:ARG:NH1	4:N6:265:ARG:NH1	2.37	0.72
2:B6:31:ARG:HH11	2:B6:103:GLY:HA3	1.54	0.72
3:C6:75:TYR:OH	2:D6:94:ARG:NH1	2.23	0.72
3:E6:83:CYS:HB3	13:E6:201:CYC:HAC2	1.72	0.72
3:G6:41:VAL:HG23	13:G6:201:CYC:HAC1	1.69	0.72
2:B7:31:ARG:NH2	2:B7:35:ALA:HB1	2.03	0.72
7:c8:20:PRO:HB3	7:j8:151:SER:OG	1.89	0.72
8:k8:11:ASN:HD21	10:09:1122:PRO:CD	1.99	0.72
4:NA:92:GLN:NE2	4:NA:121:TYR:HE1	1.82	0.72
2:S1:85:CYS:SG	13:S1:1001:CYC:HAC2	2.29	0.72
5:A2:86:ARG:NH1	4:N2:265:ARG:NH1	2.37	0.72
2:Y2:91:HIS:CG	13:Y2:201:CYC:HBB3	2.25	0.72
3:G3:41:VAL:CG2	13:G3:202:CYC:CBC	2.67	0.72
1:A4:61:LYS:O	1:A4:61:LYS:HD2	1.89	0.72
1:A4:131:ILE:HD11	1:A4:139:PHE:CD2	2.25	0.72
2:H4:119:ILE:HD11	13:H4:1001:CYC:HMA1	1.71	0.72
3:K4:68:ILE:HD11	13:L4:201:CYC:O2A	1.90	0.72
3:M4:127:SER:HB2	13:M4:201:CYC:CMC	2.20	0.72
5:A5:38:VAL:O	5:A5:43:ASP:HB2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I6:38:ARG:NH2	3:I6:101:GLY:HA2	2.04	0.72
3:M7:83:CYS:CB	13:N7:301:CYC:CAC	2.26	0.72
9:i8:36:ASN:ND2	10:09:1072:GLU:OE1	2.22	0.72
8:o8:65:ASP:HB2	10:09:1128:ARG:HB2	1.67	0.72
9:49:23:LEU:HD22	13:D9:1001:CYC:OB	1.89	0.72
7:w9:86:ASP:CG	5:AA:219:PHE:CZ	2.57	0.72
3:TA:121:LEU:CD2	13:TA:201:CYC:O1A	2.37	0.72
3:M1:127:SER:HB2	13:M1:201:CYC:CMC	2.20	0.72
3:Z1:87:MET:SD	13:Z1:202:CYC:HBC1	2.28	0.72
5:A2:191:GLN:CA	7:d9:75:GLN:NE2	2.49	0.72
4:N2:44:LEU:HB3	4:N2:47:ASP:OD2	1.90	0.72
2:O2:73:PRO:CB	3:T2:58:ARG:NH2	2.47	0.72
3:X2:44:ARG:HH21	3:X2:149:ILE:HG12	1.55	0.72
1:A4:209:THR:CG2	7:V8:67:SER:N	2.53	0.72
2:J4:100:LEU:HD21	2:J4:151:ALA:HA	1.70	0.72
3:V4:36:ASN:HD21	13:V4:201:CYC:CAD	1.90	0.72
3:X5:93:TYR:CD2	13:X5:201:CYC:HBB1	2.22	0.72
3:K6:43:ASN:CB	13:K6:202:CYC:HBC3	2.20	0.72
4:N6:4:THR:OG1	3:T6:78:ARG:NH2	2.22	0.72
3:VA:68:ILE:CD1	13:WA:1001:CYC:CGA	2.65	0.72
1:A1:201:LEU:CB	7:c8:52:LYS:HE2	2.19	0.72
3:Z1:83:CYS:HG	13:Z1:202:CYC:CAC	1.91	0.72
2:B2:86:ALA:HB2	7:k9:60:GLN:HE21	1.50	0.72
2:D2:31:ARG:NH2	2:D2:35:ALA:HB2	1.97	0.72
2:F2:74:GLN:CD	2:F2:74:GLN:H	1.98	0.72
1:A4:207:ILE:HG12	7:V8:59:PHE:CB	2.19	0.72
3:V4:128:VAL:HG22	13:V4:202:CYC:CMB	2.19	0.72
2:Q5:29:ARG:NE	13:R5:201:CYC:OB	2.21	0.72
3:G6:41:VAL:HG21	13:G6:201:CYC:CBC	2.19	0.72
3:I6:41:VAL:HG22	13:I6:202:CYC:CMB	2.20	0.72
2:Q6:123:PHE:CD2	13:Q6:201:CYC:HAA2	2.25	0.72
3:V6:44:ARG:HH21	3:V6:149:ILE:CG1	1.96	0.72
2:D7:85:CYS:SG	13:D7:1001:CYC:HAC2	2.29	0.72
3:E7:68:ILE:HD12	13:F7:1001:CYC:O1A	1.90	0.72
8:s8:116:THR:HG1	10:19:1103:LEU:CD2	1.99	0.72
2:D1:85:CYS:HA	13:D1:1001:CYC:CAC	2.19	0.72
3:I2:41:VAL:HG22	13:I2:202:CYC:CMB	2.20	0.72
1:A4:104:ARG:NH2	1:A4:175:PRO:HG2	2.04	0.72
3:M4:76:THR:HG22	3:M4:79:ARG:HE	1.51	0.72
5:A5:39:SER:HB2	3:M5:109:ARG:NH2	2.05	0.72
5:A5:241:ILE:HD11	7:A9:78:THR:C	2.15	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A5:302:CYC:CBC	3:E5:87:MET:CE	2.68	0.72
2:B6:29:ARG:HH12	3:C6:36:ASN:HD21	1.36	0.72
3:C6:93:TYR:HD2	3:C6:110:CYS:SG	2.08	0.72
2:F6:119:ILE:CD1	13:F6:1001:CYC:HMA3	2.19	0.72
4:N6:63:ARG:CB	13:V6:202:CYC:CGD	2.68	0.72
8:B8:68:ARG:HG2	8:B8:69:PRO:HD2	1.71	0.72
8:f8:92:TYR:CE1	8:f8:108:ARG:HG2	2.25	0.72
8:m8:69:PRO:HB2	10:09:936:SER:OG	1.89	0.72
3:VA:60:LEU:HD21	13:VA:201:CYC:HBB1	0.86	0.72
2:YA:31:ARG:HH22	2:YA:35:ALA:HB2	1.53	0.72
3:G1:154:CYS:CB	13:G1:201:CYC:CBC	2.67	0.72
3:K1:152:GLY:HA3	13:K1:202:CYC:HMA1	1.69	0.72
2:B2:30:GLY:HA3	2:J2:30:GLY:CA	2.16	0.72
2:B2:31:ARG:NH2	2:B2:35:ALA:HB1	2.03	0.72
3:G2:154:CYS:CB	13:G2:201:CYC:CBC	2.67	0.72
13:U2:202:CYC:O2D	3:Z2:58:ARG:CZ	2.38	0.72
2:J3:85:CYS:SG	13:J3:1001:CYC:HAC2	2.30	0.72
2:B4:53:ILE:HD12	8:W8:22:THR:HG21	1.72	0.72
3:G4:36:ASN:HD21	13:G4:201:CYC:HAA2	1.54	0.72
3:Z4:40:ASP:OD2	13:Z4:201:CYC:HHB	1.90	0.72
2:W5:29:ARG:O	2:W5:29:ARG:HD2	1.88	0.72
2:B6:31:ARG:NH2	2:B6:35:ALA:HB1	2.03	0.72
3:C6:85:ARG:NH1	13:C6:201:CYC:O2A	2.23	0.72
4:N6:230:VAL:HG23	4:N6:265:ARG:NH2	2.02	0.72
2:Q6:30:GLY:CA	2:U6:30:GLY:HA3	2.19	0.72
3:V6:150:THR:HG1	13:V6:201:CYC:HAA2	1.52	0.72
3:X6:44:ARG:HH21	3:X6:149:ILE:HG12	1.55	0.72
7:L8:49:ARG:HH12	8:W9:140:SER:C	1.98	0.72
5:AA:63:LYS:HD2	2:BA:117:ALA:CB	2.20	0.72
3:TA:157:LEU:C	3:TA:157:LEU:HD12	2.15	0.72
3:Z1:40:ASP:OD2	13:Z1:201:CYC:HHB	1.90	0.71
3:C2:75:TYR:OH	2:D2:94:ARG:NH1	2.23	0.71
3:M2:44:ARG:NH2	3:M2:149:ILE:HG13	2.03	0.71
3:C4:23:GLU:OE1	3:C4:23:GLU:N	2.21	0.71
2:B5:62:GLN:HA	7:A9:60:GLN:NE2	2.00	0.71
5:A6:229:GLN:NE2	5:A6:229:GLN:H	1.87	0.71
3:C6:154:CYS:HB2	13:C6:202:CYC:HBC2	1.72	0.71
2:J6:85:CYS:SG	13:J6:1001:CYC:HAC2	2.30	0.71
3:M6:38:ARG:HH22	3:M6:101:GLY:HA2	1.53	0.71
4:N6:10:LEU:O	4:N6:205:PRO:HG3	1.90	0.71
2:Y6:91:HIS:CG	13:Y6:201:CYC:HBB3	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D7:98:TYR:OH	3:E7:18:GLU:O	2.07	0.71
7:O8:79:ALA:N	5:AA:241:ILE:HD11	2.04	0.71
8:o8:88:TYR:CE1	13:o8:1001:CYC:CBB	2.73	0.71
10:09:986:PHE:HZ	10:09:1113:VAL:HG11	1.55	0.71
4:NA:162:THR:HG21	13:TA:201:CYC:CBC	2.20	0.71
1:A1:131:ILE:HD11	1:A1:139:PHE:CD2	2.25	0.71
3:I1:93:TYR:CE2	13:I1:201:CYC:HBB1	2.24	0.71
5:A2:243:TYR:CE1	7:J8:52:LYS:HE3	2.25	0.71
3:C2:79:ARG:O	13:C2:201:CYC:CMD	2.39	0.71
3:E2:154:CYS:HB2	13:E2:202:CYC:H2C	1.73	0.71
3:I2:38:ARG:NH2	3:I2:101:GLY:HA2	2.04	0.71
6:A3:14:ASN:CA	13:E3:201:CYC:HMA3	1.90	0.71
6:A3:80:ARG:HG3	6:A3:144:LEU:HD21	1.70	0.71
3:G3:71:GLY:C	2:FA:62:GLN:CD	2.59	0.71
2:B4:43:ARG:NH2	3:C4:26:ASP:OD1	2.23	0.71
3:E4:83:CYS:SG	13:E4:201:CYC:C1C	2.71	0.71
3:V4:83:CYS:SG	13:V4:202:CYC:NB	2.62	0.71
3:G6:41:VAL:CG2	13:G6:201:CYC:CBC	2.68	0.71
2:O6:73:PRO:HB2	3:T6:58:ARG:HH22	1.51	0.71
2:Y6:91:HIS:HB3	13:Y6:201:CYC:HAB1	1.71	0.71
3:Z6:41:VAL:O	3:Z6:45:ILE:HG12	1.89	0.71
3:Z6:83:CYS:HB3	13:Z6:202:CYC:C4C	2.20	0.71
6:A7:14:ASN:O	13:E7:201:CYC:HMA1	1.79	0.71
3:I7:38:ARG:NH2	3:I7:101:GLY:HA2	2.04	0.71
3:M7:38:ARG:HH12	3:M7:101:GLY:HA3	1.56	0.71
7:C8:9:VAL:CG1	10:09:540:PHE:HE1	2.03	0.71
7:O8:148:GLU:OE2	7:u9:24:ASP:OD2	2.08	0.71
8:m8:70:GLY:C	10:09:942:GLY:HA3	2.15	0.71
7:G9:110:ILE:HG23	8:L9:77:ARG:HB3	1.70	0.71
5:A2:197:THR:HG22	7:d9:75:GLN:HG2	1.73	0.71
3:E3:68:ILE:HD12	13:F3:1001:CYC:O1A	1.90	0.71
5:A5:234:GLN:CB	7:A9:66:VAL:HG13	2.18	0.71
2:D6:85:CYS:SG	13:D6:1001:CYC:HAC2	2.29	0.71
3:G6:154:CYS:SG	13:G6:201:CYC:C2C	2.74	0.71
2:L6:31:ARG:HH11	2:L6:103:GLY:N	1.88	0.71
13:U6:202:CYC:O2D	3:Z6:58:ARG:CZ	2.38	0.71
3:C7:75:TYR:OH	2:D7:94:ARG:NH1	2.23	0.71
2:F7:34:ARG:HH22	2:F7:146:GLN:HE21	1.38	0.71
2:F7:74:GLN:CD	2:F7:74:GLN:H	1.97	0.71
13:s8:1001:CYC:O1A	10:19:949:VAL:HG21	1.91	0.71
10:09:522:ASP:O	10:09:523:GLN:HG3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:19:954:ARG:HG2	10:19:954:ARG:NH2	1.96	0.71
9:39:23:LEU:HD13	9:39:23:LEU:O	1.89	0.71
13:AA:303:CYC:C2C	3:GA:83:CYS:SG	2.78	0.71
2:JA:31:ARG:CZ	2:JA:103:GLY:HA3	2.09	0.71
1:A1:165:TYR:CZ	3:E1:78:ARG:NH1	2.58	0.71
3:T1:36:ASN:ND2	13:T1:201:CYC:CAA	2.52	0.71
5:A2:12:SER:OG	13:E2:201:CYC:C4B	2.39	0.71
3:E2:83:CYS:HB3	13:E2:201:CYC:HAC2	1.72	0.71
2:Q2:30:GLY:CA	2:U2:30:GLY:CA	2.68	0.71
3:V2:38:ARG:NH2	3:V2:101:GLY:HA2	2.06	0.71
6:A3:7:GLU:OE1	3:E3:1:MET:HG3	1.90	0.71
3:E3:154:CYS:HB2	13:E3:202:CYC:H2C	1.73	0.71
2:D4:85:CYS:HA	13:D4:1001:CYC:CAC	2.19	0.71
5:A5:63:LYS:HD2	2:B5:117:ALA:CB	2.20	0.71
5:A5:239:PHE:CE2	7:A9:52:LYS:CB	2.72	0.71
3:C5:154:CYS:SG	13:C5:201:CYC:C2C	2.78	0.71
3:T5:157:LEU:C	3:T5:157:LEU:HD12	2.15	0.71
5:A6:194:TRP:CD1	7:N9:66:VAL:HG11	2.24	0.71
2:F6:74:GLN:CD	2:F6:74:GLN:H	1.98	0.71
4:N6:154:PHE:O	4:N6:165:PHE:HE2	1.73	0.71
3:R6:83:CYS:CB	13:R6:1001:CYC:CAC	2.50	0.71
3:V6:38:ARG:NH2	3:V6:101:GLY:HA2	2.06	0.71
13:A7:301:CYC:HAC2	3:C7:83:CYS:HB3	1.73	0.71
8:B8:74:TYR:OH	7:C8:90:ARG:NH2	2.23	0.71
7:C8:53:GLN:NE2	7:t8:56:ASP:OD1	2.24	0.71
13:AA:302:CYC:HBC3	3:EA:128:VAL:HG13	1.72	0.71
1:A1:95:LEU:HG	1:A1:176:ARG:CZ	2.19	0.71
3:C1:78:ARG:O	3:C1:78:ARG:HD2	1.90	0.71
4:N1:112:SER:HA	4:N1:115:VAL:HG12	1.70	0.71
3:X1:89:ILE:CG2	13:X1:201:CYC:CBB	2.64	0.71
3:X1:128:VAL:HG22	13:X1:201:CYC:HMC3	1.72	0.71
2:Q2:123:PHE:CD2	13:Q2:201:CYC:HAA2	2.25	0.71
2:B3:29:ARG:HH12	3:C3:36:ASN:HD21	1.36	0.71
3:C3:144:ASN:ND2	3:C3:158:ILE:HD13	2.06	0.71
3:K3:43:ASN:CB	13:K3:202:CYC:HBC3	2.20	0.71
1:A4:95:LEU:HG	1:A4:176:ARG:CZ	2.19	0.71
3:G4:154:CYS:SG	13:G4:201:CYC:C2C	2.77	0.71
2:O4:119:ILE:HD11	13:O4:1001:CYC:HAA1	1.72	0.71
2:S4:91:HIS:HB2	13:S4:1001:CYC:HMB2	1.72	0.71
5:A5:249:ASN:CB	8:F9:68:ARG:NH2	2.45	0.71
3:C5:146:PRO:O	3:C5:147:ASN:OD1	2.09	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N5:162:THR:HG21	13:T5:201:CYC:CBC	2.20	0.71
3:Z5:154:CYS:HA	3:Z5:157:LEU:HD21	1.73	0.71
3:E6:83:CYS:HB2	13:E6:201:CYC:CAC	2.15	0.71
13:I6:201:CYC:HMA2	4:N6:266:LEU:HD23	1.73	0.71
2:U6:31:ARG:HD3	2:U6:31:ARG:C	2.15	0.71
2:B7:29:ARG:HH12	3:C7:36:ASN:HD21	1.36	0.71
7:O8:82:LEU:CD1	5:AA:241:ILE:CG2	2.67	0.71
8:k8:108:ARG:NH2	10:09:1029:THR:C	2.48	0.71
9:29:65:ALA:O	8:S9:11:ASN:ND2	2.23	0.71
5:AA:6:LEU:HD22	13:AA:301:CYC:HBA1	1.73	0.71
13:AA:303:CYC:C1C	3:GA:83:CYS:SG	2.79	0.71
3:CA:146:PRO:O	3:CA:147:ASN:OD1	2.09	0.71
3:XA:68:ILE:HD13	13:YA:201:CYC:CGA	2.19	0.71
1:A1:168:ARG:HB3	1:A1:173:VAL:HG22	1.71	0.71
3:T1:89:ILE:HG21	13:T1:202:CYC:HMC3	1.72	0.71
3:E2:68:ILE:HD12	13:F2:1001:CYC:O1A	1.90	0.71
2:H2:123:PHE:CE2	13:H2:1001:CYC:HAA2	2.26	0.71
3:K2:43:ASN:CB	13:K2:202:CYC:HBC3	2.20	0.71
2:Y2:91:HIS:HB3	13:Y2:201:CYC:HAB1	1.71	0.71
2:F3:74:GLN:CD	2:F3:74:GLN:H	1.97	0.71
1:A4:193:GLY:CA	7:V8:87:TYR:OH	2.37	0.71
1:A4:199:LEU:HD23	7:V8:75:GLN:O	1.90	0.71
4:N4:156:THR:O	4:N4:157:GLN:C	2.33	0.71
2:B6:30:GLY:HA2	2:J6:30:GLY:CA	2.21	0.71
2:F6:34:ARG:HH22	2:F6:146:GLN:HE21	1.38	0.71
2:Q6:34:ARG:NH1	2:Q6:146:GLN:HE21	1.89	0.71
3:V6:154:CYS:SG	13:V6:201:CYC:HAB2	2.31	0.71
6:A7:104:ARG:HG3	6:A7:104:ARG:NH1	2.00	0.71
3:E7:154:CYS:HB2	13:E7:202:CYC:H2C	1.73	0.71
7:J8:5:THR:CG2	10:19:540:PHE:CD2	2.73	0.71
2:QA:29:ARG:NE	13:RA:201:CYC:OB	2.22	0.71
1:A1:104:ARG:NH2	1:A1:175:PRO:HG2	2.04	0.71
4:N2:10:LEU:CB	4:N2:12:THR:CG2	2.62	0.71
2:F3:34:ARG:HH22	2:F3:146:GLN:HE21	1.38	0.71
2:B4:87:ARG:HB2	8:W8:23:ALA:HB1	1.72	0.71
13:A5:303:CYC:C2C	3:G5:83:CYS:SG	2.78	0.71
13:A5:303:CYC:C1C	3:G5:83:CYS:SG	2.78	0.71
2:H6:74:GLN:OE1	2:H6:124:ASP:HB2	1.91	0.71
3:M6:38:ARG:HH12	3:M6:101:GLY:HA3	1.56	0.71
8:B8:84:ARG:HE	10:09:572:ILE:CD1	2.04	0.71
7:o9:76:GLU:CB	5:AA:201:PHE:CD2	2.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AA:60:GLU:O	5:AA:61:ILE:C	2.34	0.71
2:UA:29:ARG:HD3	13:VA:202:CYC:OC	1.91	0.71
1:A1:131:ILE:CG1	1:A1:139:PHE:CG	2.73	0.71
2:S1:91:HIS:HB2	13:S1:1001:CYC:HMB2	1.72	0.71
3:C2:85:ARG:NH1	13:C2:201:CYC:O2A	2.22	0.71
3:C2:144:ASN:ND2	3:C2:158:ILE:HD13	2.06	0.71
3:E2:44:ARG:HH22	3:E2:146:PRO:HA	1.56	0.71
3:E2:87:MET:CE	13:E2:201:CYC:CBC	2.54	0.71
3:M3:83:CYS:HB3	13:N3:301:CYC:C4C	2.21	0.71
3:C4:13:ALA:HB2	3:C4:20:LEU:HD21	1.72	0.71
3:E6:44:ARG:HH22	3:E6:146:PRO:HA	1.56	0.71
4:N6:44:LEU:HB3	4:N6:47:ASP:OD2	1.90	0.71
3:V6:34:GLU:OE2	3:V6:157:LEU:CD2	2.38	0.71
2:B7:30:GLY:HA2	2:J7:30:GLY:CA	2.21	0.71
7:C8:69:GLY:HA3	7:I9:63:PRO:HD2	1.73	0.71
2:B1:83:SER:OG	8:d8:27:LYS:CE	2.38	0.71
2:H1:119:ILE:HD11	13:H1:1001:CYC:HMA1	1.71	0.71
3:Z2:83:CYS:HB3	13:Z2:202:CYC:C4C	2.20	0.71
3:C3:75:TYR:OH	2:D3:94:ARG:NH1	2.23	0.71
2:H3:31:ARG:CZ	2:H3:103:GLY:HA3	2.20	0.71
1:A4:195:ILE:HD13	7:V8:80:THR:HG21	0.71	0.71
2:F4:22:ASN:ND2	2:L4:150:GLU:CD	2.28	0.71
4:N5:70:ARG:HH22	4:N5:140:GLN:HE21	1.35	0.71
3:C6:79:ARG:O	13:C6:201:CYC:CMD	2.39	0.71
3:V6:157:LEU:O	3:V6:161:VAL:HG23	1.90	0.71
3:E7:44:ARG:HH22	3:E7:146:PRO:HA	1.56	0.71
13:AA:302:CYC:CBC	3:EA:87:MET:CE	2.68	0.71
5:A2:6:LEU:HD22	13:C2:201:CYC:HBA1	1.73	0.71
5:A2:233:ALA:HB3	7:g8:68:PRO:HG3	1.73	0.71
13:I2:201:CYC:HMA2	4:N2:266:LEU:HD23	1.73	0.71
3:M2:83:CYS:HB3	13:N2:301:CYC:C4C	2.21	0.71
3:V2:157:LEU:O	3:V2:161:VAL:HG23	1.90	0.71
3:X2:73:ASN:HD21	3:X2:123:THR:HB	1.56	0.71
2:B3:31:ARG:NH2	2:B3:35:ALA:HB1	2.03	0.71
3:M3:38:ARG:HH12	3:M3:101:GLY:HA3	1.56	0.71
2:L4:51:ARG:HH12	3:C7:148:GLY:HA2	0.89	0.71
3:X4:85:ARG:O	3:X4:89:ILE:HG12	1.91	0.71
5:A5:6:LEU:HD22	13:A5:301:CYC:HBA1	1.73	0.71
3:K6:144:ASN:CG	3:K6:158:ILE:HD11	2.16	0.71
2:J7:85:CYS:SG	13:J7:1001:CYC:HAC2	2.30	0.71
8:o8:116:THR:N	10:09:1114:LYS:HE2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:29:16:ARG:HD2	9:29:23:LEU:HD23	1.72	0.71
5:AA:15:HIS:CE1	5:AA:121:TYR:CE2	2.78	0.71
3:CA:154:CYS:SG	13:CA:201:CYC:C2C	2.78	0.71
2:FA:35:ALA:O	2:FA:39:LEU:HG	1.91	0.71
3:TA:128:VAL:HG21	13:TA:201:CYC:HMB2	1.72	0.71
3:C1:152:GLY:CA	13:C1:302:CYC:HMD1	2.11	0.70
3:C2:93:TYR:HD2	3:C2:110:CYS:SG	2.08	0.70
2:F2:31:ARG:NH1	3:G2:6:PHE:CD2	2.59	0.70
2:U2:31:ARG:HD3	2:U2:31:ARG:C	2.15	0.70
3:X2:73:ASN:HD22	3:X2:123:THR:HA	1.56	0.70
2:H3:74:GLN:OE1	2:H3:124:ASP:HB2	1.91	0.70
2:J3:29:ARG:O	2:J3:29:ARG:HD3	1.91	0.70
1:A4:172:LEU:C	1:A4:172:LEU:HD23	2.16	0.70
4:N4:48:TYR:HB3	3:P4:85:ARG:HH11	1.55	0.70
3:T4:89:ILE:HG21	13:T4:202:CYC:HMC3	1.72	0.70
3:V4:127:SER:HB2	13:V4:202:CYC:HBB1	1.42	0.70
3:V4:144:ASN:O	13:V4:201:CYC:HBB1	1.90	0.70
5:A5:17:VAL:CG1	3:E5:85:ARG:NH1	2.54	0.70
5:A5:17:VAL:HG21	13:A5:302:CYC:CMA	2.21	0.70
5:A5:220:ALA:CB	7:q9:79:ALA:HB2	2.21	0.70
5:A5:234:GLN:N	7:A9:66:VAL:HG12	2.02	0.70
3:K5:68:ILE:HD13	13:L5:201:CYC:CGA	2.20	0.70
2:Q6:119:ILE:HD11	13:Q6:201:CYC:CMA	2.17	0.70
3:Z6:154:CYS:SG	13:Z6:201:CYC:HMB1	2.30	0.70
6:A7:144:LEU:HD13	6:A7:144:LEU:C	2.16	0.70
2:H7:123:PHE:CE2	13:H7:1001:CYC:HAA2	2.26	0.70
3:K7:43:ASN:CB	13:K7:202:CYC:HBC3	2.20	0.70
8:s8:78:ARG:NH1	10:19:947:VAL:C	2.49	0.70
7:t8:82:LEU:HB2	10:19:930:PHE:CB	2.20	0.70
13:AA:302:CYC:O2A	3:EA:85:ARG:CZ	2.39	0.70
2:UA:28:ALA:O	2:UA:32:TYR:HD2	1.74	0.70
5:A2:190:VAL:O	7:d9:75:GLN:NE2	2.22	0.70
3:C2:154:CYS:HB2	13:C2:202:CYC:HBC2	1.72	0.70
6:A3:58:LEU:O	6:A3:63:ASN:ND2	2.25	0.70
13:I3:201:CYC:HMA2	4:N3:266:LEU:HD23	1.73	0.70
1:A4:131:ILE:CG1	1:A4:139:PHE:CG	2.73	0.70
3:P4:68:ILE:HD13	13:Q4:201:CYC:O2A	1.84	0.70
3:E5:154:CYS:HG	13:E5:201:CYC:H2C	1.54	0.70
2:F5:35:ALA:O	2:F5:39:LEU:HG	1.91	0.70
5:A6:194:TRP:CD1	7:N9:66:VAL:HG13	2.23	0.70
2:F6:31:ARG:NH1	3:G6:6:PHE:CD2	2.59	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:49:10:LEU:HD12	9:49:26:THR:C	2.16	0.70
4:NA:162:THR:HG21	13:TA:201:CYC:HAC2	1.73	0.70
3:P1:68:ILE:HD13	13:Q1:201:CYC:O2A	1.84	0.70
2:H2:74:GLN:OE1	2:H2:124:ASP:HB2	1.91	0.70
3:K2:144:ASN:CG	3:K2:158:ILE:HD11	2.16	0.70
4:N2:63:ARG:CB	13:V2:202:CYC:CGD	2.68	0.70
6:A3:144:LEU:C	6:A3:144:LEU:HD13	2.16	0.70
2:D3:34:ARG:NH2	13:I3:202:CYC:H2C	2.07	0.70
2:H3:123:PHE:CE2	13:H3:1001:CYC:HAA2	2.26	0.70
2:L3:31:ARG:HH11	2:L3:103:GLY:N	1.89	0.70
4:N4:109:TYR:HB2	4:N4:113:GLU:OE2	1.90	0.70
3:T5:128:VAL:HG21	13:T5:201:CYC:HMB2	1.72	0.70
2:H6:123:PHE:CE2	13:H6:1001:CYC:HAA2	2.26	0.70
2:H7:74:GLN:OE1	2:H7:124:ASP:HB2	1.91	0.70
3:I7:41:VAL:HG22	13:I7:202:CYC:CMB	2.20	0.70
3:K7:144:ASN:CG	3:K7:158:ILE:HD11	2.16	0.70
13:B8:1001:CYC:HMA3	10:09:572:ILE:CG2	2.19	0.70
9:i8:16:ARG:NH1	10:09:1082:ARG:HH22	1.89	0.70
8:u8:15:VAL:HG13	10:19:942:GLY:CA	2.22	0.70
3:KA:68:ILE:HD13	13:LA:201:CYC:CGA	2.20	0.70
2:LA:32:TYR:CD1	3:MA:35:GLY:CA	2.58	0.70
2:O1:119:ILE:HD11	13:O1:1001:CYC:HAA1	1.71	0.70
3:K3:109:ARG:O	13:K3:201:CYC:HBC2	1.91	0.70
2:D4:85:CYS:SG	13:D4:1001:CYC:H2C	2.31	0.70
3:K4:79:ARG:HB3	13:K4:201:CYC:O1A	1.89	0.70
6:A7:7:GLU:OE1	3:E7:1:MET:HG3	1.90	0.70
6:A7:80:ARG:HD2	6:A7:144:LEU:CD2	2.19	0.70
10:09:18:GLN:OE1	10:09:269:ARG:NH1	2.24	0.70
1:A1:150:GLN:HE22	4:N1:272:GLN:HG2	1.56	0.70
4:N1:48:TYR:HB3	3:P1:85:ARG:HH11	1.55	0.70
4:N1:109:TYR:HB2	4:N1:113:GLU:OE2	1.90	0.70
2:O1:138:LYS:O	2:O1:141:HIS:NE2	2.24	0.70
3:V1:77:ASN:ND2	2:W1:116:LEU:HA	2.05	0.70
5:A2:25:GLN:HE22	2:L2:16:GLN:HG2	1.55	0.70
3:I2:87:MET:CE	13:I2:201:CYC:HBC3	2.11	0.70
6:A3:104:ARG:HG3	6:A3:104:ARG:NH1	2.00	0.70
3:K3:144:ASN:CG	3:K3:158:ILE:HD11	2.16	0.70
1:A4:165:TYR:CZ	3:E4:78:ARG:NH1	2.58	0.70
3:C4:78:ARG:O	3:C4:78:ARG:HD2	1.90	0.70
2:Y4:141:HIS:CE1	2:Y4:143:LEU:HB3	2.26	0.70
2:O5:103:GLY:O	2:W5:26:GLN:NE2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U5:28:ALA:O	2:U5:32:TYR:HD2	1.74	0.70
3:E6:154:CYS:HB2	13:E6:202:CYC:H2C	1.73	0.70
4:N6:88:TYR:HA	3:R6:109:ARG:HH22	1.55	0.70
3:P6:38:ARG:HH22	3:P6:101:GLY:HA2	1.56	0.70
2:Q6:30:GLY:CA	2:U6:30:GLY:CA	2.68	0.70
2:J7:29:ARG:O	2:J7:29:ARG:HD3	1.91	0.70
7:S8:20:PRO:CG	7:w9:101:VAL:CG1	2.68	0.70
3:V1:144:ASN:O	13:V1:201:CYC:HBB1	1.90	0.70
2:L2:31:ARG:HH11	2:L2:103:GLY:N	1.88	0.70
3:V2:154:CYS:SG	13:V2:201:CYC:HAB2	2.31	0.70
6:A3:80:ARG:HG3	6:A3:144:LEU:CD2	2.22	0.70
6:A3:87:GLY:HA3	6:A3:140:ILE:HD13	1.74	0.70
3:E3:44:ARG:HH22	3:E3:146:PRO:HA	1.56	0.70
3:I3:41:VAL:HG22	13:I3:202:CYC:CMB	2.20	0.70
3:T4:127:SER:CA	13:T4:202:CYC:HBB1	2.20	0.70
3:X4:128:VAL:HG22	13:X4:201:CYC:HMC3	1.72	0.70
3:V5:68:ILE:CD1	13:W5:1001:CYC:CGA	2.65	0.70
5:A6:228:ASN:HB3	7:I9:59:PHE:CB	2.21	0.70
5:A6:230:GLY:N	7:I9:66:VAL:HB	2.07	0.70
2:D6:34:ARG:NH2	13:I6:202:CYC:H2C	2.07	0.70
2:J6:29:ARG:O	2:J6:29:ARG:HD3	1.91	0.70
3:P6:83:CYS:CB	13:P6:201:CYC:CAC	2.41	0.70
3:C7:152:GLY:HA3	13:C7:201:CYC:HMD3	1.66	0.70
3:K7:109:ARG:O	13:K7:201:CYC:HBC2	1.91	0.70
7:Q8:49:ARG:NH2	8:q8:115:GLU:OE2	2.25	0.70
8:W8:88:TYR:OH	10:19:998:GLU:CA	2.39	0.70
9:49:18:ARG:HH22	13:D9:1001:CYC:HBA1	1.55	0.70
2:OA:33:GLU:HB3	2:WA:29:ARG:NH2	2.07	0.70
1:A1:172:LEU:HD23	1:A1:172:LEU:C	2.16	0.70
1:A1:198:PHE:CD1	7:c8:82:LEU:CB	2.75	0.70
2:D1:85:CYS:SG	13:D1:1001:CYC:H2C	2.31	0.70
3:K1:110:CYS:SG	13:K1:201:CYC:HBC3	2.32	0.70
5:A2:233:ALA:HB3	7:g8:68:PRO:CG	2.21	0.70
2:D2:34:ARG:NH2	13:I2:202:CYC:H2C	2.07	0.70
3:K2:144:ASN:ND2	3:K2:158:ILE:CD1	2.55	0.70
4:N2:10:LEU:O	4:N2:205:PRO:HG3	1.90	0.70
3:P2:41:VAL:O	3:P2:45:ILE:HG12	1.91	0.70
3:K4:110:CYS:SG	13:K4:201:CYC:HBC3	2.32	0.70
5:A5:239:PHE:CG	7:A9:52:LYS:HD3	2.26	0.70
13:A5:303:CYC:CAC	3:G5:83:CYS:CB	2.64	0.70
4:N5:62:LEU:HD11	4:N5:72:PHE:CD2	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N5:162:THR:HG21	13:T5:201:CYC:HAC2	1.73	0.70
5:A6:25:GLN:HE22	2:L6:16:GLN:HG2	1.55	0.70
3:M6:83:CYS:HB3	13:N6:301:CYC:C4C	2.21	0.70
2:L7:31:ARG:HH11	2:L7:103:GLY:N	1.89	0.70
7:E8:25:ARG:CD	7:K9:25:ARG:HH12	1.95	0.70
8:k8:115:GLU:OE2	7:C9:49:ARG:NH2	2.20	0.70
5:A2:131:ILE:HG21	13:C2:201:CYC:O1A	1.91	0.70
4:N2:88:TYR:HA	3:R2:109:ARG:HH22	1.56	0.70
1:A4:74:ASN:O	1:A4:75:ARG:HB2	1.90	0.70
5:A5:44:ILE:HG21	5:A5:75:LYS:CG	2.16	0.70
2:O5:33:GLU:HB3	2:W5:29:ARG:NH2	2.07	0.70
3:C6:144:ASN:ND2	3:C6:158:ILE:HD13	2.06	0.70
3:E6:68:ILE:HD12	13:F6:1001:CYC:O1A	1.90	0.70
2:D7:34:ARG:NH2	13:I7:202:CYC:H2C	2.07	0.70
7:L8:83:ARG:CZ	13:L8:1001:CYC:O2A	2.40	0.70
10:19:916:LEU:HD21	8:r9:29:LYS:HD2	1.71	0.70
7:G9:49:ARG:NH1	8:r9:140:SER:OG	2.24	0.70
7:P9:86:ASP:OD1	11:Q9:18:TYR:OH	2.09	0.70
3:CA:40:ASP:HB3	13:CA:201:CYC:HHB	1.74	0.70
2:OA:103:GLY:O	2:WA:26:GLN:NE2	2.25	0.70
3:C1:23:GLU:N	3:C1:23:GLU:OE1	2.21	0.70
3:C1:154:CYS:SG	13:C1:302:CYC:C2C	2.76	0.70
3:X1:83:CYS:SG	13:X1:201:CYC:CHD	2.78	0.70
2:Y1:141:HIS:CE1	2:Y1:143:LEU:HB3	2.26	0.70
2:B2:86:ALA:CB	7:k9:60:GLN:OE1	2.39	0.70
3:I2:150:THR:OG1	13:I2:202:CYC:HAA2	1.92	0.70
3:M2:38:ARG:HH12	3:M2:101:GLY:HA3	1.56	0.70
3:V2:34:GLU:OE2	3:V2:157:LEU:CD2	2.38	0.70
2:J3:28:ALA:HB3	3:K3:39:LEU:HD21	1.74	0.70
4:N3:238:ARG:N	4:N3:284:THR:O	2.22	0.70
1:A4:195:ILE:HG12	7:V8:83:ARG:HH11	1.56	0.70
3:K4:83:CYS:CB	13:K4:201:CYC:HMB3	2.14	0.70
2:U5:29:ARG:HD3	13:V5:202:CYC:OC	1.91	0.70
2:H6:123:PHE:CD2	13:H6:1001:CYC:HAA2	2.27	0.70
3:Z6:38:ARG:NH2	3:Z6:101:GLY:HA2	2.07	0.70
6:A7:71:GLN:HG3	6:A7:77:ILE:HD11	1.73	0.70
3:E7:83:CYS:HB3	13:E7:201:CYC:HAC2	1.72	0.70
3:I7:150:THR:OG1	13:I7:202:CYC:HAA2	1.92	0.70
3:M7:83:CYS:HB3	13:N7:301:CYC:C4C	2.21	0.70
7:J8:16:ARG:O	8:K8:95:TYR:OH	2.09	0.70
7:S8:83:ARG:CZ	13:S8:1001:CYC:O2A	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e8:106:GLU:CG	10:09:969:ALA:HB2	2.21	0.70
3:G1:70:PRO:CG	8:d8:18:LYS:HZ2	2.04	0.70
2:W1:146:GLN:H	2:W1:146:GLN:CD	2.00	0.70
13:C2:202:CYC:HAB1	2:J2:34:ARG:NH1	2.07	0.70
4:N2:154:PHE:O	4:N2:165:PHE:HE2	1.73	0.70
4:N2:223:LYS:HA	4:N2:238:ARG:NH1	2.07	0.70
2:F3:31:ARG:NH1	3:G3:6:PHE:CD2	2.60	0.70
4:N4:230:VAL:HB	4:N4:265:ARG:HH12	1.57	0.70
2:O4:138:LYS:O	2:O4:141:HIS:NE2	2.24	0.70
3:Z4:150:THR:OG1	13:Z4:201:CYC:CAA	2.40	0.70
3:X5:54:THR:CB	3:X5:58:ARG:NH2	2.50	0.70
5:A6:12:SER:OG	13:E6:201:CYC:C4B	2.39	0.70
5:A6:232:TYR:HB3	7:Z8:73:TYR:CE1	2.27	0.70
3:X6:44:ARG:HH21	3:X6:149:ILE:CG1	2.05	0.70
6:A7:58:LEU:O	6:A7:63:ASN:ND2	2.24	0.70
6:A7:80:ARG:HG3	6:A7:144:LEU:CD2	2.22	0.70
3:C7:154:CYS:HB2	13:C7:201:CYC:HBC2	1.72	0.70
2:H7:123:PHE:CD2	13:H7:1001:CYC:HAA2	2.27	0.70
7:O8:83:ARG:CZ	13:O8:1001:CYC:O2A	2.40	0.70
7:w9:52:LYS:HE2	5:AA:225:SER:OG	1.90	0.70
5:AA:15:HIS:HE1	5:AA:121:TYR:HE2	1.34	0.70
5:AA:17:VAL:CG1	3:EA:85:ARG:NH1	2.54	0.70
2:F1:22:ASN:ND2	2:L1:150:GLU:CD	2.28	0.69
2:J1:85:CYS:SG	13:J1:1001:CYC:CAC	2.80	0.69
3:G2:154:CYS:SG	13:G2:201:CYC:CMC	2.80	0.69
3:X2:44:ARG:NH2	3:X2:149:ILE:HG12	2.06	0.69
6:A3:15:GLN:CG	6:A3:162:ARG:O	2.40	0.69
2:B3:119:ILE:HD11	13:B3:1001:CYC:HMA1	0.72	0.69
3:G4:154:CYS:CB	13:G4:201:CYC:HBC2	2.22	0.69
2:L5:32:TYR:HD1	3:M5:35:GLY:HA3	1.53	0.69
3:R5:68:ILE:CD1	13:S5:1001:CYC:CGA	2.67	0.69
2:B6:119:ILE:HD11	13:B6:1001:CYC:HMA1	0.72	0.69
4:N6:223:LYS:HA	4:N6:238:ARG:NH1	2.07	0.69
3:P6:86:ASP:OD1	13:P6:201:CYC:HHD	1.92	0.69
8:s8:144:ALA:HB3	8:O9:29:LYS:HZ3	1.17	0.69
7:w9:66:VAL:HG11	5:AA:229:GLN:CA	2.22	0.69
3:MA:154:CYS:HG	13:MA:1003:CYC:HAB1	1.54	0.69
1:A1:59:ILE:C	1:A1:59:ILE:HD12	2.17	0.69
1:A1:74:ASN:O	1:A1:75:ARG:HB2	1.90	0.69
3:C1:13:ALA:CB	3:C1:20:LEU:HD21	2.22	0.69
3:I1:150:THR:OG1	13:I1:202:CYC:CAA	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T1:127:SER:CA	13:T1:202:CYC:HBB1	2.20	0.69
3:E2:68:ILE:HD13	13:F2:1001:CYC:O1A	1.92	0.69
2:Q2:34:ARG:NH1	2:Q2:146:GLN:HE21	1.89	0.69
2:Q2:91:HIS:CE1	13:Q2:201:CYC:HBB3	2.28	0.69
3:T2:44:ARG:NH1	3:T2:145:ASP:HB2	2.07	0.69
2:W2:29:ARG:HG2	3:X2:39:LEU:HD12	1.73	0.69
3:K3:144:ASN:ND2	3:K3:158:ILE:CD1	2.55	0.69
4:N3:230:VAL:HG23	4:N3:265:ARG:NH2	2.02	0.69
1:A4:195:ILE:HG21	7:V8:80:THR:HG23	0.70	0.69
4:N4:117:HIS:CE1	4:N4:133:TYR:CE2	2.80	0.69
2:W4:143:LEU:HD23	2:W4:148:ALA:HA	1.74	0.69
2:W4:146:GLN:H	2:W4:146:GLN:CD	2.00	0.69
2:Y4:146:GLN:CD	2:Y4:146:GLN:H	2.00	0.69
3:M5:87:MET:HE3	13:M5:1002:CYC:HBC1	1.74	0.69
7:A8:20:PRO:HB2	7:I9:151:SER:HG	1.44	0.69
5:AA:17:VAL:HG21	13:AA:302:CYC:CMA	2.21	0.69
5:AA:174:LEU:CB	13:AA:303:CYC:OB	2.40	0.69
3:P2:34:GLU:CG	3:P2:157:LEU:HD11	2.22	0.69
3:C3:154:CYS:HB2	13:C3:201:CYC:HBC2	1.72	0.69
5:A5:60:GLU:O	5:A5:61:ILE:C	2.34	0.69
5:A5:215:ASP:OD1	5:A5:218:LYS:HG2	1.93	0.69
13:A5:302:CYC:HBC3	3:E5:128:VAL:HG13	1.72	0.69
3:C5:40:ASP:HB3	13:C5:201:CYC:HHB	1.74	0.69
2:Y5:34:ARG:HA	2:Y5:34:ARG:HE	1.57	0.69
2:B6:50:GLN:HG2	7:T9:57:GLN:HE22	1.55	0.69
3:E6:68:ILE:HD13	13:F6:1001:CYC:O1A	1.91	0.69
4:N6:63:ARG:HB3	13:V6:202:CYC:CGD	2.22	0.69
3:P6:41:VAL:O	3:P6:45:ILE:HG12	1.91	0.69
3:G7:109:ARG:O	13:G7:201:CYC:HAB2	1.93	0.69
13:B8:1001:CYC:HMA3	10:09:572:ILE:HG23	1.74	0.69
7:c8:83:ARG:CZ	13:c8:1001:CYC:O2A	2.40	0.69
7:n8:83:ARG:HD3	10:09:933:LEU:C	2.17	0.69
7:w9:66:VAL:CG1	5:AA:229:GLN:CA	2.70	0.69
2:YA:34:ARG:HA	2:YA:34:ARG:HE	1.57	0.69
3:G3:154:CYS:SG	13:G3:202:CYC:CMC	2.80	0.69
3:X4:150:THR:OG1	13:X4:202:CYC:CAA	2.41	0.69
13:A5:302:CYC:O2A	3:E5:85:ARG:CZ	2.39	0.69
3:T5:152:GLY:CA	13:T5:202:CYC:HMD1	2.20	0.69
3:G6:154:CYS:SG	13:G6:201:CYC:CMC	2.80	0.69
3:K6:109:ARG:O	13:K6:201:CYC:HBC2	1.91	0.69
2:S6:34:ARG:HG2	2:Y6:26:GLN:HG2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T6:76:THR:HG22	3:T6:79:ARG:CZ	2.22	0.69
3:T6:152:GLY:HA3	13:T6:201:CYC:HMD3	1.74	0.69
3:X6:44:ARG:NH2	3:X6:149:ILE:HG12	2.06	0.69
3:C7:144:ASN:ND2	3:C7:158:ILE:HD13	2.06	0.69
2:D7:31:ARG:CD	2:D7:35:ALA:HB2	2.22	0.69
3:G7:154:CYS:CB	13:G7:202:CYC:HAC2	2.22	0.69
2:J7:28:ALA:HB3	3:K7:39:LEU:HD21	1.74	0.69
8:P8:107:GLU:HG3	9:U8:58:THR:HB	1.73	0.69
7:n8:110:ILE:HD11	10:09:954:ARG:CD	2.20	0.69
7:E9:37:LEU:HD22	8:F9:25:LEU:HD23	1.74	0.69
4:NA:62:LEU:HD11	4:NA:72:PHE:CD2	2.27	0.69
1:A1:195:ILE:CB	7:c8:80:THR:CG2	2.68	0.69
4:N1:230:VAL:HB	4:N1:265:ARG:HH12	1.57	0.69
5:A2:229:GLN:OE1	5:A2:229:GLN:N	2.24	0.69
2:F2:34:ARG:NH2	2:F2:146:GLN:NE2	2.40	0.69
2:B3:30:GLY:HA2	2:J3:30:GLY:CA	2.21	0.69
3:E3:68:ILE:HD13	13:F3:1001:CYC:O1A	1.92	0.69
3:K6:144:ASN:ND2	3:K6:158:ILE:CD1	2.55	0.69
2:O6:30:GLY:CA	2:W6:30:GLY:CA	2.65	0.69
13:C7:201:CYC:HAB1	2:J7:34:ARG:NH1	2.07	0.69
2:F7:31:ARG:NH1	3:G7:6:PHE:CD2	2.60	0.69
7:J8:83:ARG:CZ	13:J8:1001:CYC:O2A	2.40	0.69
7:Z8:83:ARG:CZ	13:Z8:1001:CYC:O2A	2.40	0.69
7:e8:83:ARG:CZ	13:e8:1001:CYC:O2A	2.40	0.69
7:t8:82:LEU:HB2	10:19:930:PHE:HB2	1.73	0.69
3:I1:76:THR:HG22	3:I1:79:ARG:CD	2.22	0.69
4:N1:117:HIS:CE1	4:N1:133:TYR:CE2	2.80	0.69
3:V1:36:ASN:CG	13:V1:201:CYC:C3D	2.65	0.69
3:X1:85:ARG:O	3:X1:89:ILE:HG12	1.91	0.69
2:B2:30:GLY:HA2	2:J2:30:GLY:CA	2.21	0.69
2:Y2:88:ASP:CG	13:Y2:201:CYC:HHB	2.17	0.69
3:Z2:38:ARG:NH2	3:Z2:101:GLY:HA2	2.07	0.69
1:A4:150:GLN:HE22	4:N4:272:GLN:HG2	1.56	0.69
3:I4:150:THR:OG1	13:I4:202:CYC:C2A	2.41	0.69
3:K4:83:CYS:HB2	13:K4:201:CYC:C1B	2.16	0.69
2:L4:55:GLY:HA2	3:C7:151:LYS:HZ2	1.56	0.69
5:A5:198:LEU:HD23	7:u9:79:ALA:HB1	1.73	0.69
2:S6:32:TYR:CE1	3:T6:35:GLY:CA	2.63	0.69
2:U6:31:ARG:HD3	2:U6:31:ARG:O	1.92	0.69
3:V6:127:SER:HB3	13:V6:202:CYC:CBB	2.23	0.69
2:H7:31:ARG:NH2	3:I7:6:PHE:CE1	2.60	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:I7:201:CYC:HMA2	4:N7:266:LEU:HD23	1.73	0.69
7:A8:20:PRO:HB3	7:I9:151:SER:CB	2.22	0.69
8:I8:50:ALA:HB3	7:X9:161:GLN:OE1	1.92	0.69
7:l8:83:ARG:CZ	13:l8:1001:CYC:O2A	2.40	0.69
8:o8:88:TYR:HE1	8:o8:109:VAL:HG12	1.56	0.69
7:w9:59:PHE:C	5:AA:228:ASN:ND2	2.49	0.69
3:ZA:154:CYS:HA	3:ZA:157:LEU:HD21	1.73	0.69
3:C1:13:ALA:HB2	3:C1:20:LEU:HD21	1.72	0.69
3:E1:79:ARG:O	3:E1:82:ALA:HB3	1.92	0.69
3:I1:150:THR:OG1	13:I1:202:CYC:C2A	2.41	0.69
5:A2:191:GLN:O	7:d9:75:GLN:CG	2.37	0.69
3:G2:109:ARG:O	13:G2:202:CYC:HAB2	1.92	0.69
2:U2:31:ARG:HD3	2:U2:31:ARG:O	1.92	0.69
6:A3:103:TYR:CD2	3:C3:113:GLY:HA3	2.28	0.69
2:B3:123:PHE:CE2	13:B3:1001:CYC:HAA2	2.23	0.69
3:V4:77:ASN:ND2	2:W4:116:LEU:HA	2.05	0.69
3:X5:68:ILE:HD13	13:Y5:201:CYC:CGA	2.19	0.69
9:U8:31:LEU:O	10:09:782:GLU:OE1	2.11	0.69
7:j8:83:ARG:CZ	13:j8:1001:CYC:O2A	2.40	0.69
8:B9:76:THR:OG1	7:C9:115:MET:SD	2.47	0.69
7:b9:49:ARG:NH1	8:x9:140:SER:OG	2.25	0.69
3:TA:114:LEU:HD13	13:TA:201:CYC:CBC	2.23	0.69
2:B1:53:ILE:HD12	8:d8:22:THR:HG21	1.71	0.69
3:K1:68:ILE:HD11	13:L1:201:CYC:O2A	1.90	0.69
3:V1:152:GLY:H	13:V1:201:CYC:C4B	2.05	0.69
2:J2:28:ALA:HB3	3:K2:39:LEU:HD21	1.74	0.69
2:J2:29:ARG:O	2:J2:29:ARG:HD3	1.91	0.69
13:M2:201:CYC:NB	13:M2:201:CYC:HMA1	2.08	0.69
3:T2:76:THR:HG22	3:T2:79:ARG:CZ	2.22	0.69
2:Y2:31:ARG:HH22	2:Y2:35:ALA:CB	1.98	0.69
3:E3:83:CYS:HB2	13:E3:201:CYC:CAC	2.15	0.69
3:M3:152:GLY:N	13:M3:201:CYC:OB	2.26	0.69
1:A4:59:ILE:C	1:A4:59:ILE:HD12	2.17	0.69
3:E4:79:ARG:O	3:E4:82:ALA:HB3	1.92	0.69
2:J4:85:CYS:CA	13:J4:1001:CYC:HAC2	2.22	0.69
3:V4:36:ASN:CG	13:V4:201:CYC:C3D	2.65	0.69
5:A5:15:HIS:HE1	5:A5:121:TYR:HE2	1.34	0.69
5:A5:75:LYS:CE	13:A5:304:CYC:CGD	2.61	0.69
5:A5:174:LEU:CB	13:A5:303:CYC:OB	2.41	0.69
3:V5:89:ILE:HG23	13:V5:201:CYC:HBC3	1.75	0.69
3:V5:123:THR:HB	13:V5:201:CYC:O2A	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A6:6:LEU:HD22	13:C6:201:CYC:HBA1	1.73	0.69
3:G6:154:CYS:CB	13:G6:201:CYC:HAC2	2.22	0.69
3:X6:38:ARG:CG	3:X6:157:LEU:HD22	2.22	0.69
2:Y6:88:ASP:CG	13:Y6:201:CYC:HHB	2.17	0.69
6:A7:90:GLU:HB2	2:J7:16:GLN:HG2	1.75	0.69
2:D7:29:ARG:HD3	2:D7:29:ARG:O	1.93	0.69
7:X8:83:ARG:CZ	13:X8:1001:CYC:O2A	2.40	0.69
9:b8:21:ARG:HB3	9:b8:23:LEU:H	1.57	0.69
8:o8:82:CYS:SG	13:o8:1001:CYC:C2C	2.80	0.69
13:q8:1001:CYC:CMA	10:19:1034:THR:CG2	2.70	0.69
7:t8:83:ARG:CZ	13:t8:1001:CYC:O2A	2.40	0.69
10:19:706:ARG:NH2	8:t9:15:VAL:O	2.25	0.69
2:YA:29:ARG:CG	13:ZA:202:CYC:OC	2.41	0.69
1:A1:60:LEU:HD12	1:A1:60:LEU:N	2.07	0.69
3:E1:152:GLY:HA3	13:E1:202:CYC:HMD1	1.75	0.69
3:I1:128:VAL:CG2	13:I1:201:CYC:HMC1	2.22	0.69
3:E2:44:ARG:HH21	3:E2:149:ILE:HD12	1.28	0.69
3:Z2:83:CYS:CB	13:Z2:202:CYC:CAC	2.49	0.69
2:D3:31:ARG:CD	2:D3:35:ALA:HB2	2.22	0.69
3:I3:150:THR:OG1	13:I3:202:CYC:HAA2	1.92	0.69
13:I3:202:CYC:NB	13:I3:202:CYC:HMA1	2.08	0.69
13:B4:1001:CYC:O1A	3:G4:68:ILE:HD13	1.93	0.69
13:T5:202:CYC:NB	13:T5:202:CYC:HMA1	2.08	0.69
2:D6:31:ARG:CD	2:D6:35:ALA:HB2	2.22	0.69
2:H6:31:ARG:CZ	2:H6:35:ALA:HB1	2.11	0.69
2:W6:74:GLN:HA	13:W6:202:CYC:HBD2	1.74	0.69
3:X6:38:ARG:HG3	3:X6:157:LEU:HD11	1.74	0.69
3:X6:73:ASN:HD21	3:X6:123:THR:HB	1.56	0.69
2:Y6:88:ASP:OD1	13:Y6:201:CYC:CHB	2.41	0.69
6:A7:87:GLY:HA3	6:A7:140:ILE:HD13	1.74	0.69
3:C7:93:TYR:HD2	3:C7:110:CYS:SG	2.08	0.69
3:G7:154:CYS:SG	13:G7:202:CYC:CMC	2.80	0.69
3:K7:144:ASN:ND2	3:K7:158:ILE:CD1	2.55	0.69
7:C8:83:ARG:CZ	13:C8:1001:CYC:O2A	2.40	0.69
7:E8:49:ARG:NH1	8:n9:140:SER:CB	2.53	0.69
8:W8:84:ARG:NH1	10:19:1001:SER:CB	2.55	0.69
3:EA:39:LEU:HD22	13:EA:201:CYC:HBB2	1.73	0.69
2:OA:33:GLU:CB	2:WA:29:ARG:HH21	2.06	0.69
2:J1:85:CYS:CA	13:J1:1001:CYC:HAC2	2.22	0.69
13:Q1:202:CYC:NB	13:Q1:202:CYC:HMA1	2.08	0.69
2:Y1:141:HIS:ND1	2:Y1:143:LEU:HB2	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K2:109:ARG:O	13:K2:201:CYC:HBC2	1.91	0.69
4:N2:47:ASP:CG	4:N2:85:LYS:NZ	2.51	0.69
4:N2:63:ARG:HB3	13:V2:202:CYC:CGD	2.22	0.69
3:R2:83:CYS:HB3	13:R2:1001:CYC:HAC2	1.68	0.69
2:Y2:88:ASP:OD1	13:Y2:201:CYC:CHB	2.41	0.69
6:A3:53:ILE:O	6:A3:112:ARG:NE	2.26	0.69
1:A4:212:PHE:HB3	7:r8:66:VAL:O	1.93	0.69
2:B4:22:ASN:ND2	2:J4:150:GLU:OE2	2.24	0.69
3:C4:13:ALA:CB	3:C4:20:LEU:HD21	2.23	0.69
13:C4:302:CYC:NB	13:C4:302:CYC:HMA1	2.08	0.69
2:J4:143:LEU:HD23	2:J4:148:ALA:HA	1.75	0.69
5:A6:230:GLY:HA3	7:I9:63:PRO:O	1.93	0.69
3:Z6:83:CYS:HB2	13:Z6:202:CYC:HAC2	0.78	0.69
6:A7:15:GLN:CG	6:A7:162:ARG:O	2.40	0.69
3:E7:68:ILE:HD13	13:F7:1001:CYC:O1A	1.91	0.69
7:C8:110:ILE:HD13	10:09:542:GLU:CD	2.17	0.69
8:o8:77:ARG:HD2	10:09:1117:TRP:HE1	1.57	0.69
10:19:37:ARG:NH1	7:k9:151:SER:OG	2.26	0.69
3:RA:149:ILE:HG21	13:RA:201:CYC:C1D	2.23	0.69
3:Z1:150:THR:OG1	13:Z1:201:CYC:CAA	2.40	0.68
2:H2:123:PHE:CD2	13:H2:1001:CYC:HAA2	2.27	0.68
3:V2:68:ILE:CD1	13:W2:202:CYC:O1A	2.42	0.68
3:X2:44:ARG:HH21	3:X2:149:ILE:CG1	2.05	0.68
13:C3:201:CYC:NB	13:C3:201:CYC:HMA1	2.08	0.68
13:C3:201:CYC:HAB1	2:J3:34:ARG:NH1	2.07	0.68
3:G3:109:ARG:O	13:G3:201:CYC:HAB2	1.93	0.68
3:G3:154:CYS:CB	13:G3:202:CYC:HAC2	2.22	0.68
1:A4:60:LEU:HD12	1:A4:60:LEU:N	2.07	0.68
3:G4:61:PHE:HZ	3:G4:83:CYS:SG	2.16	0.68
2:J4:85:CYS:SG	13:J4:1001:CYC:CAC	2.80	0.68
5:A5:15:HIS:CE1	5:A5:121:TYR:CE2	2.78	0.68
3:M5:121:LEU:CD2	13:M5:1002:CYC:HBD1	2.22	0.68
5:A6:60:GLU:O	5:A6:61:ILE:C	2.36	0.68
3:I6:150:THR:OG1	13:I6:202:CYC:HAA2	1.92	0.68
2:Q6:34:ARG:HH12	2:Q6:146:GLN:HE21	1.41	0.68
7:S8:20:PRO:HG3	7:w9:101:VAL:CG1	2.22	0.68
10:09:890:VAL:HG23	10:09:891:ILE:HD12	1.76	0.68
13:RA:201:CYC:NB	13:RA:201:CYC:HMA1	2.08	0.68
13:TA:202:CYC:NB	13:TA:202:CYC:HMA1	2.08	0.68
1:A1:201:LEU:HB2	7:c8:52:LYS:CE	2.23	0.68
13:B1:1001:CYC:O1A	3:G1:68:ILE:HD13	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C2:202:CYC:NB	13:C2:202:CYC:HMA1	2.08	0.68
2:S2:34:ARG:HG2	2:Y2:26:GLN:HG2	1.74	0.68
2:W2:74:GLN:HA	13:W2:202:CYC:HBD2	1.74	0.68
2:H3:123:PHE:CD2	13:H3:1001:CYC:HAA2	2.27	0.68
3:I4:150:THR:OG1	13:I4:202:CYC:CAA	2.40	0.68
13:Q4:202:CYC:CMD	3:R4:152:GLY:N	2.57	0.68
13:Q4:202:CYC:NB	13:Q4:202:CYC:HMA1	2.08	0.68
3:R5:149:ILE:HG21	13:R5:201:CYC:C1D	2.23	0.68
3:V6:150:THR:OG1	13:V6:201:CYC:C2A	2.41	0.68
7:E8:83:ARG:CZ	13:E8:1001:CYC:O2A	2.40	0.68
9:b8:22:GLU:HB2	9:b8:25:ASN:CB	2.20	0.68
9:i8:36:ASN:ND2	10:09:1072:GLU:CD	2.44	0.68
13:E1:202:CYC:NB	13:E1:202:CYC:HMA1	2.08	0.68
2:F1:119:ILE:HD11	13:F1:1001:CYC:HMA1	1.75	0.68
13:K1:201:CYC:NB	13:K1:201:CYC:HMA1	2.09	0.68
13:M1:202:CYC:NB	13:M1:202:CYC:HMA1	2.08	0.68
13:P1:202:CYC:HMA1	13:P1:202:CYC:NB	2.08	0.68
3:V1:121:LEU:HD22	13:V1:202:CYC:O2A	1.93	0.68
5:A2:197:THR:HG21	7:d9:75:GLN:HA	1.74	0.68
2:D2:29:ARG:O	2:D2:29:ARG:HD3	1.93	0.68
3:P2:86:ASP:OD1	13:P2:201:CYC:HHD	1.92	0.68
13:W2:201:CYC:NB	13:W2:201:CYC:HMA1	2.08	0.68
1:A4:198:PHE:HD1	7:V8:82:LEU:CB	2.07	0.68
1:A4:198:PHE:HZ	7:V8:86:ASP:CB	2.06	0.68
1:A4:208:LYS:O	7:V8:63:PRO:CB	2.41	0.68
2:B4:143:LEU:HD23	2:B4:148:ALA:HA	1.74	0.68
5:A5:234:GLN:HB2	7:A9:66:VAL:CG1	2.21	0.68
2:F5:63:LYS:HA	3:G7:66:GLN:HB3	1.74	0.68
13:Z5:202:CYC:NB	13:Z5:202:CYC:HMA1	2.09	0.68
2:B6:30:GLY:HA2	2:J6:30:GLY:HA2	1.75	0.68
13:C6:202:CYC:HMA1	13:C6:202:CYC:NB	2.08	0.68
2:H6:31:ARG:HD3	2:H6:31:ARG:O	1.93	0.68
13:b8:1001:CYC:HMD1	13:b8:1001:CYC:HC	1.59	0.68
8:d8:81:ALA:HA	8:d8:84:ARG:CG	2.24	0.68
8:f8:88:TYR:OH	9:i8:20:GLN:C	2.36	0.68
8:m8:69:PRO:O	10:09:936:SER:HB3	1.93	0.68
13:AA:304:CYC:C1C	4:NA:226:LEU:HD11	2.23	0.68
13:MA:1003:CYC:NB	13:MA:1003:CYC:HMA1	2.08	0.68
2:B1:22:ASN:ND2	2:J1:150:GLU:OE2	2.24	0.68
4:N1:156:THR:O	4:N1:157:GLN:C	2.33	0.68
5:A2:250:ARG:N	8:I8:63:TYR:O	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G2:154:CYS:CB	13:G2:201:CYC:HAC2	2.22	0.68
3:M2:152:GLY:N	13:M2:201:CYC:OB	2.26	0.68
3:P2:38:ARG:HH22	3:P2:101:GLY:HA2	1.56	0.68
2:W2:31:ARG:HH11	2:W2:102:ALA:C	2.01	0.68
13:W2:203:CYC:NB	13:W2:203:CYC:HMA1	2.09	0.68
2:F3:34:ARG:HA	2:F3:34:ARG:HE	1.58	0.68
13:M3:201:CYC:HMA1	13:M3:201:CYC:NB	2.08	0.68
2:J4:85:CYS:HA	13:J4:1001:CYC:CAC	2.23	0.68
13:T4:201:CYC:NB	13:T4:201:CYC:HMA1	2.08	0.68
13:B5:1001:CYC:O1A	3:G5:68:ILE:HD11	1.86	0.68
4:N5:54:ARG:CG	4:N5:59:GLU:OE2	2.18	0.68
13:V5:202:CYC:NB	13:V5:202:CYC:HMA1	2.08	0.68
5:A6:131:ILE:HG21	13:C6:201:CYC:O1A	1.91	0.68
2:J6:28:ALA:HB3	3:K6:39:LEU:HD21	1.74	0.68
4:N6:3:ILE:HG22	3:T6:121:LEU:CD2	2.23	0.68
13:T6:201:CYC:HMA1	13:T6:201:CYC:NB	2.08	0.68
4:N7:238:ARG:N	4:N7:284:THR:O	2.22	0.68
9:39:16:ARG:HD2	9:39:23:LEU:HD23	1.75	0.68
13:ZA:202:CYC:NB	13:ZA:202:CYC:HMA1	2.09	0.68
2:B2:30:GLY:HA2	2:J2:30:GLY:HA2	1.75	0.68
2:D2:31:ARG:CD	2:D2:35:ALA:HB2	2.22	0.68
4:N2:240:GLU:HG3	4:N2:258:VAL:HG12	1.76	0.68
13:U2:201:CYC:HMA1	13:U2:201:CYC:NB	2.08	0.68
2:F3:123:PHE:CD2	13:F3:1001:CYC:HAA2	2.29	0.68
3:C4:16:ARG:O	8:W8:18:LYS:CE	2.39	0.68
3:E4:152:GLY:CA	13:E4:202:CYC:CMD	2.71	0.68
3:E4:154:CYS:SG	13:E4:202:CYC:CAC	2.81	0.68
13:G4:201:CYC:NB	13:G4:201:CYC:HMA1	2.09	0.68
3:I4:76:THR:HG22	3:I4:79:ARG:CD	2.22	0.68
13:P4:202:CYC:NB	13:P4:202:CYC:HMA1	2.08	0.68
13:A5:304:CYC:C1C	4:N5:226:LEU:HD11	2.23	0.68
13:C5:201:CYC:NB	13:C5:201:CYC:HMA1	2.08	0.68
13:E5:201:CYC:HMA1	13:E5:201:CYC:NB	2.09	0.68
2:B6:50:GLN:CG	7:T9:57:GLN:HE22	2.06	0.68
13:K6:201:CYC:NB	13:K6:201:CYC:HMA1	2.09	0.68
4:N6:11:GLY:O	4:N6:14:PRO:HD2	1.93	0.68
4:N6:240:GLU:HG3	4:N6:258:VAL:HG12	1.76	0.68
3:R6:40:ASP:HB2	13:U6:201:CYC:HHB	1.76	0.68
2:B7:30:GLY:HA2	2:J7:30:GLY:HA2	1.75	0.68
13:C7:201:CYC:NB	13:C7:201:CYC:HMA1	2.08	0.68
13:P8:1001:CYC:HMD1	13:P8:1001:CYC:HC	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:T8:1001:CYC:HMD1	13:T8:1001:CYC:HC	1.59	0.68
8:x9:77:ARG:HB3	7:y9:110:ILE:HG23	1.75	0.68
3:KA:154:CYS:SG	13:KA:201:CYC:C2B	2.82	0.68
3:C1:18:GLU:CD	7:c8:47:ARG:NH2	2.51	0.68
2:H1:146:GLN:OE1	2:H1:146:GLN:N	2.24	0.68
3:I1:123:THR:HG22	3:I1:124:PRO:HD2	1.75	0.68
2:F2:34:ARG:HA	2:F2:34:ARG:HE	1.58	0.68
2:S2:30:GLY:O	2:S2:34:ARG:HB3	1.93	0.68
13:T2:201:CYC:NB	13:T2:201:CYC:HMA1	2.08	0.68
13:K3:201:CYC:NB	13:K3:201:CYC:HMA1	2.09	0.68
3:I4:128:VAL:CG2	13:I4:201:CYC:HMC1	2.22	0.68
3:T5:114:LEU:HD13	13:T5:201:CYC:CBC	2.23	0.68
2:W5:31:ARG:HH22	2:W5:35:ALA:HB2	1.59	0.68
5:A6:230:GLY:HA2	7:I9:63:PRO:HB2	1.75	0.68
13:G6:201:CYC:NB	13:G6:201:CYC:HMA1	2.09	0.68
3:M6:152:GLY:N	13:M6:201:CYC:OB	2.26	0.68
4:N6:238:ARG:N	4:N6:284:THR:O	2.22	0.68
2:S6:30:GLY:O	2:S6:34:ARG:HB3	1.93	0.68
3:T6:44:ARG:NH1	3:T6:145:ASP:HB2	2.07	0.68
13:W6:201:CYC:NB	13:W6:201:CYC:HMA1	2.08	0.68
3:X6:73:ASN:HD22	3:X6:123:THR:HA	1.57	0.68
6:A7:103:TYR:CD2	3:C7:113:GLY:HA3	2.28	0.68
2:D7:88:ASP:OD1	13:D7:1001:CYC:CHB	2.42	0.68
13:09:1201:CYC:HMD1	13:09:1201:CYC:HC	1.59	0.68
13:19:1201:CYC:HMD1	13:19:1201:CYC:HC	1.59	0.68
8:x9:17:GLY:HA3	5:AA:213:GLU:OE1	1.93	0.68
13:KA:201:CYC:NB	13:KA:201:CYC:HMA1	2.09	0.68
3:VA:123:THR:HB	13:VA:201:CYC:CGA	2.24	0.68
1:A1:84:ARG:HB2	4:N1:230:VAL:CG2	2.21	0.68
3:G1:74:ALA:HB2	13:G1:202:CYC:OC	1.93	0.68
3:T1:128:VAL:HG22	13:T1:202:CYC:C2B	2.23	0.68
2:W1:74:GLN:HA	13:W1:1001:CYC:HBD2	1.74	0.68
2:Y1:146:GLN:CD	2:Y1:146:GLN:H	2.00	0.68
5:A2:230:GLY:H	7:X9:66:VAL:CB	2.06	0.68
2:B2:119:ILE:HD11	13:B2:1001:CYC:HMA1	0.72	0.68
2:D2:88:ASP:OD1	13:D2:1001:CYC:HHB	1.94	0.68
13:Z2:201:CYC:NB	13:Z2:201:CYC:HMA1	2.09	0.68
3:G3:66:GLN:CB	2:FA:63:LYS:HA	2.24	0.68
1:A4:131:ILE:HD11	1:A4:139:PHE:CE2	2.29	0.68
13:E4:202:CYC:NB	13:E4:202:CYC:HMA1	2.08	0.68
13:I4:202:CYC:NB	13:I4:202:CYC:HMA1	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:V4:201:CYC:NB	13:V4:201:CYC:HMA1	2.08	0.68
13:X4:202:CYC:NB	13:X4:202:CYC:HMA1	2.09	0.68
2:H5:28:ALA:O	2:H5:32:TYR:CD2	2.46	0.68
13:I5:202:CYC:NB	13:I5:202:CYC:HMA1	2.09	0.68
13:M5:1003:CYC:NB	13:M5:1003:CYC:HMA1	2.08	0.68
13:X5:202:CYC:NB	13:X5:202:CYC:HMA1	2.09	0.68
13:C6:202:CYC:HAB1	2:J6:34:ARG:NH1	2.07	0.68
2:F6:34:ARG:HA	2:F6:34:ARG:HE	1.58	0.68
3:G6:109:ARG:O	13:G6:202:CYC:HAB2	1.92	0.68
3:T6:44:ARG:NH2	3:T6:149:ILE:HG13	2.08	0.68
2:U6:73:PRO:CB	3:Z6:58:ARG:NH1	2.56	0.68
3:V6:68:ILE:CD1	13:W6:202:CYC:O1A	2.42	0.68
7:A8:83:ARG:CZ	13:A8:1001:CYC:O2A	2.40	0.68
13:K8:1001:CYC:HMD1	13:K8:1001:CYC:HC	1.59	0.68
8:o8:11:ASN:ND2	10:09:944:SER:HB3	2.09	0.68
13:GA:1002:CYC:NB	13:GA:1002:CYC:HMA1	2.09	0.68
4:NA:160:GLN:HG3	13:TA:201:CYC:OC	1.94	0.68
3:TA:152:GLY:CA	13:TA:202:CYC:HMD1	2.20	0.68
1:A1:205:ILE:HG23	7:c8:56:ASP:CG	2.17	0.68
13:T1:201:CYC:NB	13:T1:201:CYC:HMA1	2.09	0.68
2:B2:22:ASN:ND2	2:B2:26:GLN:HE21	1.92	0.68
3:T2:152:GLY:HA3	13:T2:201:CYC:HMD3	1.73	0.68
2:U2:73:PRO:CB	3:Z2:58:ARG:NH1	2.56	0.68
13:V2:201:CYC:NB	13:V2:201:CYC:HMA1	2.08	0.68
3:X2:83:CYS:HB3	13:X2:201:CYC:C4C	2.24	0.68
2:D3:29:ARG:O	2:D3:29:ARG:HD3	1.93	0.68
3:P4:118:TYR:HE2	3:P4:128:VAL:HG21	1.59	0.68
2:O5:33:GLU:CB	2:W5:29:ARG:HH21	2.06	0.68
3:E6:119:GLN:OE1	8:a8:16:GLN:NE2	2.21	0.68
2:F6:31:ARG:NH1	3:G6:6:PHE:CE1	2.62	0.68
2:O6:154:TYR:OH	2:W6:22:ASN:ND2	2.26	0.68
2:Q6:91:HIS:CE1	13:Q6:201:CYC:HBB3	2.27	0.68
3:X6:38:ARG:HG3	3:X6:157:LEU:CD1	2.23	0.68
13:K7:201:CYC:NB	13:K7:201:CYC:HMA1	2.09	0.68
8:B8:77:ARG:CD	10:09:542:GLU:CD	2.67	0.68
13:q8:1001:CYC:HC	13:q8:1001:CYC:HMD1	1.59	0.68
7:r8:83:ARG:CZ	13:r8:1001:CYC:O2A	2.40	0.68
7:t8:51:VAL:HG11	10:19:930:PHE:HE1	1.53	0.68
3:G1:154:CYS:CB	13:G1:201:CYC:HBC2	2.22	0.68
13:I1:202:CYC:NB	13:I1:202:CYC:HMA1	2.09	0.68
5:A2:228:ASN:ND2	7:X9:60:GLN:CG	2.45	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D2:31:ARG:NH2	2:D2:35:ALA:HB1	2.09	0.68
13:E2:202:CYC:NB	13:E2:202:CYC:HMA1	2.08	0.68
13:I2:202:CYC:NB	13:I2:202:CYC:HMA1	2.09	0.68
3:V2:89:ILE:HD13	13:V2:202:CYC:HMC3	1.76	0.68
6:A3:11:SER:OG	6:A3:119:TYR:CA	2.42	0.68
3:C4:152:GLY:N	13:C4:302:CYC:HMD2	2.09	0.68
2:F4:119:ILE:HD11	13:F4:1001:CYC:HMA1	1.75	0.68
13:K4:202:CYC:HMA1	13:K4:202:CYC:NB	2.09	0.68
2:S4:85:CYS:HA	13:S4:1001:CYC:CAC	2.24	0.68
3:X4:128:VAL:HG22	13:X4:201:CYC:CMC	2.24	0.68
3:V5:123:THR:HB	13:V5:201:CYC:CGA	2.24	0.68
2:D6:88:ASP:OD1	13:D6:1001:CYC:CHB	2.42	0.68
2:F6:123:PHE:CD2	13:F6:1001:CYC:HAA2	2.29	0.68
13:X6:202:CYC:NB	13:X6:202:CYC:HMA1	2.09	0.68
2:D7:88:ASP:OD1	13:D7:1001:CYC:HHB	1.94	0.68
13:E7:202:CYC:NB	13:E7:202:CYC:HMA1	2.09	0.68
2:F7:34:ARG:HE	2:F7:34:ARG:HA	1.58	0.68
13:I7:202:CYC:NB	13:I7:202:CYC:HMA1	2.08	0.68
4:N7:240:GLU:HG3	4:N7:258:VAL:HG12	1.76	0.68
8:D8:40:ARG:HH12	7:E9:38:ARG:HH22	1.42	0.68
8:P8:50:ALA:HB3	7:u9:161:GLN:OE1	1.94	0.68
3:GA:154:CYS:SG	13:GA:1002:CYC:CAC	2.82	0.68
13:PA:202:CYC:NB	13:PA:202:CYC:HMA1	2.08	0.68
3:VA:123:THR:HB	13:VA:201:CYC:O2A	1.92	0.68
3:G1:70:PRO:HG2	8:d8:18:LYS:HZ2	1.59	0.68
2:J1:143:LEU:HD23	2:J1:148:ALA:HA	1.75	0.68
3:X1:93:TYR:HE2	13:X1:201:CYC:CBB	1.95	0.68
13:Z1:201:CYC:NB	13:Z1:201:CYC:HMA1	2.09	0.68
2:L2:88:ASP:OD1	13:L2:201:CYC:CHB	2.42	0.68
2:O2:154:TYR:OH	2:W2:22:ASN:ND2	2.26	0.68
2:Q2:34:ARG:HH12	2:Q2:146:GLN:HE21	1.41	0.68
2:Q2:85:CYS:SG	13:Q2:201:CYC:CBC	2.82	0.68
3:V2:127:SER:HB3	13:V2:202:CYC:CBB	2.22	0.68
2:D3:88:ASP:OD1	13:D3:1001:CYC:HHB	1.94	0.68
13:K3:202:CYC:NB	13:K3:202:CYC:HMA1	2.09	0.68
13:M4:202:CYC:NB	13:M4:202:CYC:HMA1	2.08	0.68
2:W4:74:GLN:HA	13:W4:1001:CYC:HBD2	1.74	0.68
5:A5:106:ARG:HH21	5:A5:176:THR:HG23	1.59	0.68
13:A5:302:CYC:CBC	3:E5:87:MET:HE3	2.24	0.68
2:B5:79:SER:CB	7:q9:73:TYR:OH	2.37	0.68
3:K5:154:CYS:SG	13:K5:201:CYC:C2B	2.82	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:E6:202:CYC:NB	13:E6:202:CYC:HMA1	2.08	0.68
3:X6:73:ASN:ND2	3:X6:123:THR:HA	2.08	0.68
3:X6:83:CYS:HB3	13:X6:201:CYC:C4C	2.24	0.68
6:A7:11:SER:OG	6:A7:119:TYR:CA	2.42	0.68
6:A7:60:ILE:HG22	2:B7:115:GLY:HA2	1.76	0.68
13:M7:201:CYC:NB	13:M7:201:CYC:HMA1	2.08	0.68
13:R8:1001:CYC:HC	13:R8:1001:CYC:HMD1	1.59	0.68
13:d8:1001:CYC:HBA2	10:09:1004:ARG:CB	2.23	0.68
13:d8:1001:CYC:HMD1	13:d8:1001:CYC:HC	1.59	0.68
8:x9:16:GLN:O	5:AA:213:GLU:OE2	2.12	0.68
5:AA:17:VAL:HG13	3:EA:85:ARG:HD3	1.75	0.68
2:HA:28:ALA:O	2:HA:32:TYR:CD2	2.46	0.68
2:WA:31:ARG:HH22	2:WA:35:ALA:HB2	1.59	0.68
2:W1:143:LEU:HD23	2:W1:148:ALA:HA	1.74	0.67
3:X1:150:THR:OG1	13:X1:202:CYC:CAA	2.41	0.67
2:B2:86:ALA:HB1	7:k9:60:GLN:OE1	1.92	0.67
2:F2:31:ARG:NH1	3:G2:6:PHE:CE1	2.62	0.67
3:X2:73:ASN:ND2	3:X2:123:THR:HA	2.08	0.67
6:A3:104:ARG:HD2	6:A3:108:ILE:HD11	0.68	0.67
2:D3:88:ASP:OD1	13:D3:1001:CYC:CHB	2.42	0.67
3:T4:154:CYS:SG	13:T4:201:CYC:CAC	2.83	0.67
3:X4:89:ILE:CG2	13:X4:201:CYC:CBB	2.64	0.67
13:Z4:201:CYC:NB	13:Z4:201:CYC:HMA1	2.09	0.67
5:A5:163:GLN:HB3	5:A5:172:HIS:CD2	2.29	0.67
2:Y5:29:ARG:CG	13:Z5:202:CYC:OC	2.41	0.67
3:C6:79:ARG:O	13:C6:201:CYC:HMD1	1.94	0.67
2:D6:29:ARG:HD3	2:D6:29:ARG:O	1.93	0.67
3:K6:121:LEU:CD2	13:K6:201:CYC:O2D	2.42	0.67
13:K6:202:CYC:NB	13:K6:202:CYC:HMA1	2.09	0.67
2:Q6:85:CYS:SG	13:Q6:201:CYC:CBC	2.82	0.67
6:A7:118:ALA:HB3	6:A7:124:GLU:OE2	1.95	0.67
13:G7:202:CYC:NB	13:G7:202:CYC:HMA1	2.09	0.67
2:L7:88:ASP:OD1	13:L7:201:CYC:CHB	2.43	0.67
13:s8:1001:CYC:HMD1	13:s8:1001:CYC:HC	1.59	0.67
13:AA:303:CYC:HBB1	3:GA:93:TYR:HE2	1.59	0.67
13:CA:201:CYC:NB	13:CA:201:CYC:HMA1	2.08	0.67
2:LA:35:ALA:O	2:LA:39:LEU:HG	1.94	0.67
3:MA:121:LEU:CD2	13:MA:1002:CYC:HBD1	2.22	0.67
2:B1:143:LEU:HD23	2:B1:148:ALA:HA	1.74	0.67
3:C1:152:GLY:N	13:C1:302:CYC:HMD2	2.09	0.67
3:P1:76:THR:CG2	3:P1:79:ARG:HG2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X1:128:VAL:HG22	13:X1:201:CYC:CMC	2.24	0.67
13:X1:202:CYC:NB	13:X1:202:CYC:HMA1	2.09	0.67
3:E2:157:LEU:O	3:E2:161:VAL:CG2	2.34	0.67
6:A3:144:LEU:HD13	6:A3:144:LEU:O	1.94	0.67
13:E3:202:CYC:NB	13:E3:202:CYC:HMA1	2.09	0.67
3:I3:41:VAL:HG23	13:I3:202:CYC:HMB1	1.75	0.67
1:A4:57:HIS:CB	13:G4:202:CYC:O2A	2.41	0.67
2:H4:34:ARG:HH12	2:H4:150:GLU:HB2	1.58	0.67
5:A5:17:VAL:HG13	3:E5:85:ARG:HD3	1.75	0.67
5:A5:239:PHE:HA	7:A9:52:LYS:HG2	1.75	0.67
13:G5:201:CYC:NB	13:G5:201:CYC:HMA1	2.09	0.67
13:P5:202:CYC:NB	13:P5:202:CYC:HMA1	2.08	0.67
3:V6:89:ILE:HD13	13:V6:202:CYC:HMC3	1.76	0.67
6:A7:104:ARG:HD2	6:A7:108:ILE:HD11	0.68	0.67
13:K7:202:CYC:NB	13:K7:202:CYC:HMA1	2.09	0.67
7:H8:148:GLU:OE2	7:X9:24:ASP:CG	2.37	0.67
7:Q8:83:ARG:CZ	13:Q8:1001:CYC:O2A	2.40	0.67
10:09:943:GLN:HB3	10:09:947:VAL:HG11	1.76	0.67
7:A9:10:ASN:HD21	7:o9:10:ASN:HD21	1.38	0.67
3:IA:152:GLY:HA3	13:IA:202:CYC:CMA	2.25	0.67
13:IA:202:CYC:NB	13:IA:202:CYC:HMA1	2.08	0.67
2:LA:31:ARG:NH1	2:LA:103:GLY:HA3	2.09	0.67
3:MA:87:MET:HE3	13:MA:1002:CYC:HBC1	1.74	0.67
3:MA:146:PRO:O	3:MA:147:ASN:OD1	2.12	0.67
3:VA:89:ILE:HG23	13:VA:201:CYC:HBC3	1.75	0.67
13:C1:302:CYC:NB	13:C1:302:CYC:HMA1	2.08	0.67
3:E1:154:CYS:SG	13:E1:202:CYC:CAC	2.81	0.67
13:K1:202:CYC:HMA1	13:K1:202:CYC:NB	2.09	0.67
2:S1:85:CYS:HA	13:S1:1001:CYC:CAC	2.24	0.67
2:D2:88:ASP:OD1	13:D2:1001:CYC:CHB	2.42	0.67
2:J2:123:PHE:CE2	13:J2:1001:CYC:HAA2	2.30	0.67
4:N2:3:ILE:HG22	3:T2:121:LEU:CD2	2.23	0.67
1:A4:198:PHE:HZ	7:V8:86:ASP:HB2	1.59	0.67
3:I4:123:THR:HG22	3:I4:124:PRO:HD2	1.75	0.67
4:N4:261:VAL:HG21	4:N4:269:LYS:HG2	1.76	0.67
5:A5:17:VAL:CG2	13:A5:302:CYC:HMA1	2.24	0.67
3:M5:146:PRO:O	3:M5:147:ASN:OD1	2.12	0.67
2:B6:22:ASN:ND2	2:B6:26:GLN:HE21	1.92	0.67
2:J6:123:PHE:CE2	13:J6:1001:CYC:HAA2	2.30	0.67
3:K6:109:ARG:O	13:K6:201:CYC:CBC	2.43	0.67
8:K8:108:ARG:NH2	10:19:523:GLN:OE1	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V8:83:ARG:CZ	13:V8:1001:CYC:O2A	2.40	0.67
8:k8:111:ASN:HD22	10:09:1032:PRO:HD3	1.59	0.67
13:o8:1001:CYC:HMA1	13:o8:1001:CYC:HB	1.60	0.67
8:q8:84:ARG:HH12	10:19:1059:ASN:ND2	1.76	0.67
7:K9:150:GLY:O	7:K9:154:ASP:HB2	1.95	0.67
7:R9:150:GLY:O	7:R9:154:ASP:HB2	1.95	0.67
2:J1:85:CYS:HA	13:J1:1001:CYC:CAC	2.23	0.67
3:T2:38:ARG:CG	3:T2:157:LEU:HD21	2.24	0.67
3:T2:151:LYS:HA	13:T2:201:CYC:OC	1.95	0.67
3:Z2:37:LYS:HB3	3:Z2:157:LEU:CD1	2.25	0.67
1:A4:191:ILE:HG21	8:a8:68:ARG:NH1	2.08	0.67
1:A4:199:LEU:HA	7:V8:79:ALA:HB2	1.76	0.67
2:B4:16:GLN:HE22	2:J4:3:LYS:HE2	1.59	0.67
2:D4:91:HIS:CG	13:D4:1001:CYC:HBB3	2.29	0.67
3:G4:74:ALA:HB2	13:G4:202:CYC:OC	1.93	0.67
2:H4:146:GLN:OE1	2:H4:146:GLN:N	2.24	0.67
13:K4:201:CYC:NB	13:K4:201:CYC:HMA1	2.09	0.67
3:V4:79:ARG:HB3	13:V4:202:CYC:HMA1	1.77	0.67
3:V4:152:GLY:H	13:V4:201:CYC:C4B	2.05	0.67
5:A5:239:PHE:CG	7:A9:52:LYS:CD	2.78	0.67
13:I5:201:CYC:CAA	4:N5:263:TYR:OH	2.42	0.67
2:L6:88:ASP:OD1	13:L6:201:CYC:CHB	2.42	0.67
13:M6:201:CYC:NB	13:M6:201:CYC:HMA1	2.08	0.67
2:S6:5:PRO:CG	2:Y6:23:THR:OG1	2.41	0.67
13:V6:201:CYC:NB	13:V6:201:CYC:HMA1	2.08	0.67
3:X6:38:ARG:HG2	3:X6:157:LEU:CD2	2.22	0.67
13:Z6:201:CYC:NB	13:Z6:201:CYC:HMA1	2.09	0.67
2:F7:26:GLN:NE2	2:L7:103:GLY:O	2.28	0.67
7:n8:23:LEU:HD22	8:o8:39:VAL:HG13	1.75	0.67
10:09:183:VAL:HG21	10:09:266:ALA:HB2	1.76	0.67
7:T9:150:GLY:O	7:T9:154:ASP:HB2	1.95	0.67
7:w9:66:VAL:CG1	5:AA:229:GLN:HA	2.24	0.67
13:AA:302:CYC:CBC	3:EA:87:MET:HE3	2.24	0.67
2:QA:34:ARG:HG3	2:UA:26:GLN:HG2	1.75	0.67
13:D1:1001:CYC:HB	13:D1:1001:CYC:HMA1	1.60	0.67
3:M1:154:CYS:SG	13:M1:202:CYC:CAB	2.83	0.67
4:N1:225:ASN:HD21	4:N1:236:VAL:HG21	1.60	0.67
3:I2:41:VAL:HG23	13:I2:202:CYC:HMB1	1.75	0.67
13:K2:201:CYC:NB	13:K2:201:CYC:HMA1	2.09	0.67
3:R2:40:ASP:HB2	13:U2:201:CYC:HHB	1.76	0.67
6:A3:80:ARG:HD2	6:A3:144:LEU:CD2	2.19	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G3:66:GLN:HB2	2:FA:62:GLN:O	1.93	0.67
13:C4:301:CYC:HMA1	13:C4:301:CYC:HB	1.60	0.67
3:V4:121:LEU:HD22	13:V4:202:CYC:O2A	1.93	0.67
2:Y4:141:HIS:ND1	2:Y4:143:LEU:HB2	2.08	0.67
13:R5:201:CYC:NB	13:R5:201:CYC:HMA1	2.08	0.67
2:U6:32:TYR:HE2	3:V6:35:GLY:C	2.02	0.67
6:A7:13:GLN:HA	6:A7:13:GLN:HE21	1.59	0.67
2:F7:34:ARG:NH2	2:F7:146:GLN:NE2	2.40	0.67
3:M7:152:GLY:N	13:M7:201:CYC:OB	2.26	0.67
7:H8:83:ARG:CZ	13:H8:1001:CYC:O2A	2.40	0.67
13:I8:1001:CYC:HMD1	13:I8:1001:CYC:HC	1.59	0.67
13:W8:1001:CYC:HMD1	13:W8:1001:CYC:HC	1.59	0.67
9:b8:24:GLN:NE2	10:19:963:THR:O	2.26	0.67
13:k8:1001:CYC:HMD1	13:k8:1001:CYC:HC	1.59	0.67
7:X9:150:GLY:O	7:X9:154:ASP:HB2	1.95	0.67
13:CA:201:CYC:O1A	2:JA:146:GLN:HG2	1.95	0.67
3:KA:68:ILE:CD1	13:LA:201:CYC:O1A	2.37	0.67
2:OA:5:PRO:HG3	2:WA:26:GLN:OE1	1.95	0.67
13:G1:201:CYC:NB	13:G1:201:CYC:HMA1	2.09	0.67
3:M1:127:SER:CB	13:M1:201:CYC:HMC2	2.23	0.67
13:V1:201:CYC:NB	13:V1:201:CYC:HMA1	2.08	0.67
3:C2:152:GLY:HA3	13:C2:202:CYC:HMD3	1.66	0.67
2:F2:26:GLN:NE2	2:L2:103:GLY:O	2.28	0.67
3:T2:44:ARG:NH2	3:T2:149:ILE:HG13	2.08	0.67
3:G3:70:PRO:O	2:FA:62:GLN:OE1	2.12	0.67
1:A4:193:GLY:O	7:V8:83:ARG:HD2	1.94	0.67
3:C4:18:GLU:CD	7:V8:47:ARG:NH2	2.53	0.67
3:I4:40:ASP:OD2	13:I4:202:CYC:HHB	1.95	0.67
2:J4:29:ARG:NH2	13:K4:202:CYC:OC	2.26	0.67
2:J4:85:CYS:CB	13:J4:1001:CYC:HAC2	2.25	0.67
3:Z5:157:LEU:O	3:Z5:160:GLU:N	2.28	0.67
3:C6:58:ARG:HH12	13:D6:1001:CYC:CGD	2.07	0.67
2:D6:88:ASP:OD1	13:D6:1001:CYC:HHB	1.94	0.67
13:I6:202:CYC:NB	13:I6:202:CYC:HMA1	2.08	0.67
3:R6:58:ARG:NH2	13:S6:1001:CYC:O2D	2.25	0.67
2:S6:34:ARG:HH22	2:S6:146:GLN:HE21	1.42	0.67
2:W6:31:ARG:HH11	2:W6:102:ALA:C	2.01	0.67
6:A7:14:ASN:HA	13:E7:201:CYC:HMA1	0.91	0.67
6:A7:71:GLN:O	6:A7:75:ARG:N	2.28	0.67
3:K7:109:ARG:O	13:K7:201:CYC:CBC	2.42	0.67
7:C8:69:GLY:HA3	7:I9:64:ASP:OD2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U8:46:LYS:HD2	10:09:848:GLN:HE21	1.57	0.67
7:e8:25:ARG:HD2	7:n8:25:ARG:HD2	1.75	0.67
7:g8:83:ARG:CZ	13:g8:1001:CYC:O2A	2.40	0.67
13:h8:1001:CYC:HMD1	13:h8:1001:CYC:HC	1.59	0.67
8:k8:84:ARG:NH1	10:09:1059:ASN:ND2	2.42	0.67
13:19:1204:CYC:CBC	8:a9:82:CYS:SG	2.83	0.67
13:29:1001:CYC:CBC	8:W9:82:CYS:SG	2.83	0.67
8:O9:82:CYS:SG	13:O9:1001:CYC:CBC	2.83	0.67
7:Z9:150:GLY:O	7:Z9:154:ASP:HB2	1.95	0.67
7:s9:150:GLY:O	7:s9:154:ASP:HB2	1.95	0.67
13:EA:201:CYC:NB	13:EA:201:CYC:HMA1	2.09	0.67
13:XA:202:CYC:NB	13:XA:202:CYC:HMA1	2.09	0.67
1:A1:195:ILE:HG23	7:c8:80:THR:HG22	1.63	0.67
13:C1:301:CYC:HB	13:C1:301:CYC:HMA1	1.60	0.67
3:V1:79:ARG:HB3	13:V1:202:CYC:HMA1	1.77	0.67
5:A2:60:GLU:O	5:A2:61:ILE:C	2.36	0.67
4:N2:11:GLY:O	4:N2:14:PRO:HD2	1.93	0.67
3:P2:88:GLU:O	3:P2:91:LEU:N	2.28	0.67
6:A3:13:GLN:HA	6:A3:13:GLN:HE21	1.59	0.67
2:B3:30:GLY:HA2	2:J3:30:GLY:HA2	1.75	0.67
3:C3:58:ARG:HH12	13:D3:1001:CYC:CGD	2.07	0.67
2:L3:88:ASP:OD1	13:L3:201:CYC:CHB	2.43	0.67
1:A4:65:GLN:N	1:A4:65:GLN:OE1	2.28	0.67
3:M4:127:SER:CB	13:M4:201:CYC:HMC2	2.23	0.67
5:A5:220:ALA:CA	7:q9:79:ALA:CB	2.71	0.67
3:G5:154:CYS:SG	13:G5:201:CYC:CAC	2.82	0.67
13:K5:201:CYC:NB	13:K5:201:CYC:HMA1	2.09	0.67
2:O5:26:GLN:CD	2:W5:34:ARG:HG2	2.20	0.67
3:I6:41:VAL:HG23	13:I6:202:CYC:HMB1	1.75	0.67
3:Z6:40:ASP:OD2	13:Z6:201:CYC:NA	2.28	0.67
3:C7:58:ARG:HH12	13:D7:1001:CYC:CGD	2.07	0.67
2:F7:123:PHE:CD2	13:F7:1001:CYC:HAA2	2.29	0.67
2:J7:29:ARG:CB	13:K7:202:CYC:OC	2.43	0.67
13:D8:1001:CYC:HMD1	13:D8:1001:CYC:HC	1.59	0.67
8:m8:116:THR:OG1	10:09:1103:LEU:HD21	1.90	0.67
8:u8:119:SER:CB	10:19:1114:LYS:HE2	2.13	0.67
13:19:1205:CYC:CBC	8:h9:82:CYS:SG	2.83	0.67
7:I9:150:GLY:O	7:I9:154:ASP:HB2	1.95	0.67
8:e9:82:CYS:SG	13:e9:1001:CYC:CBC	2.83	0.67
7:o9:38:ARG:HH12	3:CA:155:SER:HB2	1.58	0.67
7:o9:150:GLY:O	7:o9:154:ASP:HB2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:v9:82:CYS:SG	13:v9:1001:CYC:CBC	2.83	0.67
13:AA:303:CYC:CBB	3:GA:93:TYR:HE2	2.08	0.67
3:VA:60:LEU:HD22	13:VA:201:CYC:CBB	1.86	0.67
13:VA:202:CYC:NB	13:VA:202:CYC:HMA1	2.08	0.67
1:A1:131:ILE:HD11	1:A1:139:PHE:CE2	2.29	0.67
4:N1:118:LEU:HD12	13:R1:1001:CYC:O1A	1.94	0.67
5:A2:103:ASN:ND2	3:C2:112:ASN:HD22	1.93	0.67
3:C2:79:ARG:O	13:C2:201:CYC:HMD1	1.94	0.67
3:C2:93:TYR:HB2	3:C2:110:CYS:SG	2.34	0.67
3:Z2:40:ASP:OD2	13:Z2:201:CYC:NA	2.28	0.67
4:N3:240:GLU:HG3	4:N3:258:VAL:HG12	1.76	0.67
3:P4:76:THR:CG2	3:P4:79:ARG:HG2	2.24	0.67
3:V4:68:ILE:HD13	13:W4:1001:CYC:O2A	1.95	0.67
2:F5:29:ARG:NE	13:G5:201:CYC:OB	2.28	0.67
2:J5:32:TYR:HE1	3:K5:35:GLY:HA3	1.35	0.67
2:L5:31:ARG:NH1	2:L5:103:GLY:HA3	2.09	0.67
5:A6:230:GLY:N	7:I9:66:VAL:CB	2.57	0.67
2:H6:31:ARG:CZ	2:H6:35:ALA:HB2	2.20	0.67
3:P6:88:GLU:O	3:P6:91:LEU:N	2.28	0.67
3:T6:38:ARG:CG	3:T6:157:LEU:HD21	2.24	0.67
2:Y6:74:GLN:NE2	2:Y6:124:ASP:CB	2.41	0.67
6:A7:144:LEU:HD13	6:A7:144:LEU:O	1.94	0.67
2:H7:85:CYS:HA	13:H7:1001:CYC:HAC2	1.77	0.67
13:B8:1001:CYC:HMD1	13:B8:1001:CYC:HC	1.59	0.67
9:U8:36:ASN:HD22	10:09:842:ASN:HD21	1.41	0.67
13:09:1201:CYC:HMA1	13:09:1201:CYC:HB	1.60	0.67
10:19:603:TYR:HB2	8:Y9:111:ASN:HD22	1.60	0.67
5:AA:163:GLN:HB3	5:AA:172:HIS:CD2	2.29	0.67
2:BA:29:ARG:HD3	13:CA:201:CYC:OB	1.95	0.67
2:FA:34:ARG:HE	13:MA:1003:CYC:C2C	2.01	0.67
3:RA:68:ILE:CD1	13:SA:1001:CYC:CGA	2.67	0.67
2:D1:91:HIS:CG	13:D1:1001:CYC:HBB3	2.29	0.67
2:Q1:146:GLN:H	2:Q1:146:GLN:CD	2.03	0.67
5:A2:194:TRP:CD1	7:d9:66:VAL:HG11	2.29	0.67
13:K2:202:CYC:NB	13:K2:202:CYC:HMA1	2.09	0.67
2:Q2:31:ARG:NH2	2:Q2:35:ALA:CA	2.58	0.67
3:R2:82:ALA:O	3:R2:85:ARG:HG3	1.95	0.67
2:F3:31:ARG:NH1	3:G3:6:PHE:CE1	2.62	0.67
3:M3:83:CYS:CB	13:N3:301:CYC:CAC	2.26	0.67
1:A4:199:LEU:CD2	7:V8:76:GLU:HA	2.17	0.67
2:F4:85:CYS:HA	13:F4:1001:CYC:CAC	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J4:150:GLU:OE1	2:J4:154:TYR:HE2	1.78	0.67
4:N5:160:GLN:HG3	13:T5:201:CYC:OC	1.94	0.67
5:A6:239:PHE:CE1	7:t8:60:GLN:HG3	2.29	0.67
2:B6:74:GLN:OE1	2:B6:124:ASP:HB2	1.95	0.67
6:A7:83:ILE:HD11	6:A7:159:PRO:HD3	1.76	0.67
2:B7:74:GLN:OE1	2:B7:124:ASP:HB2	1.95	0.67
2:F7:31:ARG:NH1	3:G7:6:PHE:CE1	2.62	0.67
2:H7:31:ARG:NH2	3:I7:6:PHE:CZ	2.62	0.67
2:J7:123:PHE:CE2	13:J7:1001:CYC:HAA2	2.30	0.67
7:H8:14:GLU:HG3	10:19:592:ASP:OD1	1.94	0.67
13:d8:1001:CYC:HMA2	10:09:1001:SER:C	2.20	0.67
13:f8:1001:CYC:HMD1	13:f8:1001:CYC:HC	1.59	0.67
13:19:1203:CYC:CBC	8:Y9:82:CYS:SG	2.83	0.67
13:39:1001:CYC:CBC	8:n9:82:CYS:SG	2.83	0.67
8:U9:82:CYS:SG	13:U9:1001:CYC:CBC	2.83	0.67
7:k9:150:GLY:O	7:k9:154:ASP:HB2	1.95	0.67
7:q9:150:GLY:O	7:q9:154:ASP:HB2	1.95	0.67
7:y9:150:GLY:O	7:y9:154:ASP:HB2	1.95	0.67
13:AA:303:CYC:CAC	3:GA:83:CYS:CB	2.64	0.67
13:IA:201:CYC:CAA	4:NA:263:TYR:OH	2.42	0.67
3:ZA:157:LEU:O	3:ZA:160:GLU:N	2.28	0.67
2:D1:74:GLN:HA	13:D1:1001:CYC:HBD2	1.77	0.67
2:H2:31:ARG:HH22	2:H2:35:ALA:HA	1.57	0.67
3:V2:150:THR:OG1	13:V2:201:CYC:C2A	2.41	0.67
3:G3:34:GLU:OE2	3:G3:157:LEU:HD21	1.84	0.67
3:G3:157:LEU:O	3:G3:160:GLU:HG3	1.95	0.67
13:G3:202:CYC:NB	13:G3:202:CYC:HMA1	2.09	0.67
3:K3:109:ARG:O	13:K3:201:CYC:CBC	2.42	0.67
3:K3:121:LEU:CD2	13:K3:201:CYC:O2D	2.42	0.67
4:N4:118:LEU:HD12	13:R4:1001:CYC:O1A	1.93	0.67
3:X4:93:TYR:HE2	13:X4:201:CYC:CBB	1.95	0.67
5:A5:64:PHE:HZ	2:J5:18:ARG:HH11	1.43	0.67
2:L5:35:ALA:O	2:L5:39:LEU:HG	1.94	0.67
2:Q5:34:ARG:HG3	2:U5:26:GLN:HG2	1.76	0.67
2:S6:154:TYR:OH	2:Y6:22:ASN:ND2	2.28	0.67
3:Z6:37:LYS:HB3	3:Z6:157:LEU:CD1	2.25	0.67
2:B7:22:ASN:ND2	2:B7:26:GLN:HE21	1.92	0.67
7:E8:113:ARG:NH2	7:G9:113:ARG:HH22	1.92	0.67
9:b8:24:GLN:HG3	10:19:963:THR:HA	1.77	0.67
9:b8:30:LYS:HA	10:19:1007:GLU:O	1.95	0.67
7:p8:9:VAL:CG2	10:19:1024:ARG:CZ	2.73	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:q8:1001:CYC:OB	10:19:1033:ASN:HB2	1.94	0.67
8:B9:82:CYS:SG	13:B9:1001:CYC:CBC	2.83	0.67
2:O1:85:CYS:SG	13:O1:1001:CYC:HAC2	2.34	0.66
3:T1:154:CYS:SG	13:T1:201:CYC:CAC	2.83	0.66
3:C2:58:ARG:HH12	13:D2:1001:CYC:CGD	2.07	0.66
13:G2:201:CYC:NB	13:G2:201:CYC:HMA1	2.09	0.66
2:U2:32:TYR:HE2	3:V2:35:GLY:C	2.02	0.66
6:A3:11:SER:HG	6:A3:119:TYR:C	2.02	0.66
2:O4:85:CYS:SG	13:O4:1001:CYC:HAC2	2.34	0.66
3:X4:124:PRO:HG2	3:X4:127:SER:HB2	1.76	0.66
3:V5:123:THR:CG2	13:V5:201:CYC:O1A	2.43	0.66
3:X5:54:THR:O	3:X5:58:ARG:NE	2.28	0.66
4:N6:47:ASP:CG	4:N6:85:LYS:NZ	2.51	0.66
6:A7:84:ARG:HH21	6:A7:144:LEU:CG	2.08	0.66
3:I7:41:VAL:HG23	13:I7:202:CYC:HMB1	1.75	0.66
7:C9:150:GLY:O	7:C9:154:ASP:HB2	1.95	0.66
7:N9:150:GLY:O	7:N9:154:ASP:HB2	1.95	0.66
7:b9:150:GLY:O	7:b9:154:ASP:HB2	1.95	0.66
7:i9:150:GLY:O	7:i9:154:ASP:HB2	1.95	0.66
8:p9:82:CYS:SG	13:p9:1001:CYC:CBC	2.83	0.66
3:EA:78:ARG:HB2	2:FA:114:ALA:HB3	1.77	0.66
1:A1:65:GLN:N	1:A1:65:GLN:OE1	2.28	0.66
3:E1:152:GLY:CA	13:E1:202:CYC:CMD	2.71	0.66
3:G1:61:PHE:HZ	3:G1:83:CYS:SG	2.16	0.66
3:I1:36:ASN:ND2	13:I1:202:CYC:C3D	2.58	0.66
3:M1:40:ASP:OD2	13:M1:202:CYC:CHB	2.43	0.66
2:F2:123:PHE:CD2	13:F2:1001:CYC:HAA2	2.29	0.66
2:S2:34:ARG:HH22	2:S2:146:GLN:HE21	1.42	0.66
3:V2:43:ASN:HD22	13:V2:201:CYC:CBC	2.08	0.66
2:B3:74:GLN:OE1	2:B3:124:ASP:HB2	1.95	0.66
2:D3:26:GLN:OE1	2:H3:31:ARG:CG	2.29	0.66
2:D3:31:ARG:NH2	2:D3:35:ALA:HB2	1.97	0.66
5:A5:40:SER:HG	2:L5:2:VAL:N	1.92	0.66
2:B5:29:ARG:HD3	13:C5:201:CYC:OB	1.95	0.66
3:E5:39:LEU:HD22	13:E5:201:CYC:HBB2	1.72	0.66
3:I5:152:GLY:HA3	13:I5:202:CYC:CMA	2.25	0.66
2:D6:31:ARG:NH2	2:D6:35:ALA:HB1	2.09	0.66
2:W6:29:ARG:HH12	13:X6:202:CYC:CMD	2.08	0.66
13:B8:1001:CYC:HMA1	13:B8:1001:CYC:HB	1.60	0.66
13:09:1203:CYC:CBC	8:M9:82:CYS:SG	2.83	0.66
8:F9:82:CYS:SG	13:F9:1001:CYC:CBC	2.83	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S9:82:CYS:SG	13:S9:1001:CYC:CBC	2.83	0.66
8:l9:82:CYS:SG	13:l9:1001:CYC:CBC	2.83	0.66
5:AA:64:PHE:HZ	2:JA:18:ARG:HH11	1.43	0.66
5:AA:73:GLN:HE22	4:NA:227:GLY:CA	2.09	0.66
2:OA:26:GLN:CD	2:WA:34:ARG:HG2	2.20	0.66
3:VA:123:THR:CG2	13:VA:201:CYC:O1A	2.43	0.66
3:XA:144:ASN:O	13:XA:202:CYC:CBB	2.43	0.66
13:O1:1001:CYC:HB	13:O1:1001:CYC:HMA1	1.60	0.66
3:P1:118:TYR:HE2	3:P1:128:VAL:HG21	1.59	0.66
13:Q1:202:CYC:CMD	3:R1:152:GLY:N	2.57	0.66
5:A2:228:ASN:O	7:X9:66:VAL:HG21	1.93	0.66
2:B3:22:ASN:ND2	2:B3:26:GLN:HE21	1.92	0.66
2:F3:26:GLN:NE2	2:L3:103:GLY:O	2.28	0.66
2:H3:85:CYS:HA	13:H3:1001:CYC:HAC2	1.77	0.66
3:G4:82:ALA:CB	13:G4:202:CYC:C3D	2.74	0.66
13:O4:1001:CYC:HB	13:O4:1001:CYC:HMA1	1.60	0.66
2:W6:31:ARG:HH22	2:W6:35:ALA:CB	2.05	0.66
3:G7:157:LEU:O	3:G7:160:GLU:HG3	1.95	0.66
7:j8:114:GLU:OE2	10:09:992:ASP:CG	2.39	0.66
7:n8:83:ARG:CZ	13:n8:1001:CYC:O2A	2.40	0.66
9:49:14:LEU:HD13	9:49:14:LEU:O	1.96	0.66
8:J9:82:CYS:SG	13:J9:1001:CYC:CBC	2.83	0.66
2:F1:146:GLN:OE1	2:F1:146:GLN:N	2.20	0.66
2:H1:34:ARG:HH12	2:H1:150:GLU:HB2	1.58	0.66
3:V1:39:LEU:CD1	13:V1:201:CYC:C1C	2.74	0.66
2:W1:146:GLN:OE1	2:W1:146:GLN:N	2.21	0.66
3:K2:109:ARG:O	13:K2:201:CYC:CBC	2.43	0.66
3:P2:43:ASN:HD22	13:W2:201:CYC:HBC3	1.51	0.66
6:A3:60:ILE:HG22	2:B3:115:GLY:HA2	1.76	0.66
2:D4:74:GLN:HA	13:D4:1001:CYC:HBD2	1.77	0.66
13:D4:1001:CYC:HB	13:D4:1001:CYC:HMA1	1.60	0.66
3:M4:154:CYS:SG	13:M4:202:CYC:CAB	2.83	0.66
2:Q4:43:ARG:NH2	3:R4:26:ASP:OD1	2.28	0.66
5:A5:73:GLN:HE22	4:N5:227:GLY:CA	2.09	0.66
5:A5:231:ASN:OD1	7:A9:67:SER:OG	2.12	0.66
13:C5:201:CYC:O1A	2:J5:146:GLN:HG2	1.95	0.66
3:E5:152:GLY:CA	13:E5:201:CYC:CMD	2.73	0.66
2:B6:123:PHE:CE2	13:B6:1001:CYC:HAA2	2.24	0.66
3:G6:157:LEU:O	3:G6:160:GLU:HG3	1.95	0.66
3:T6:44:ARG:HH21	3:T6:149:ILE:CG1	2.08	0.66
13:U6:201:CYC:NB	13:U6:201:CYC:HMA1	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G7:202:CYC:CAB	2:L7:34:ARG:HH11	2.09	0.66
8:B8:77:ARG:HD2	10:09:542:GLU:OE2	1.95	0.66
9:N8:30:LYS:HB2	10:19:578:GLU:O	1.95	0.66
13:Y8:1001:CYC:HMD1	13:Y8:1001:CYC:HC	1.59	0.66
7:P9:36:ARG:HH12	12:V9:24:LYS:HE2	1.60	0.66
5:AA:17:VAL:CG2	13:AA:302:CYC:HMA1	2.24	0.66
2:QA:34:ARG:HA	2:QA:34:ARG:CZ	2.26	0.66
3:RA:149:ILE:HD12	3:RA:149:ILE:N	2.11	0.66
3:VA:87:MET:HE3	13:VA:201:CYC:HMB3	1.76	0.66
1:A1:194:ASP:C	7:c8:83:ARG:HD3	2.20	0.66
2:B1:16:GLN:HE22	2:J1:3:LYS:HE2	1.59	0.66
3:C1:68:ILE:CD1	13:D1:1001:CYC:O2A	2.44	0.66
3:I1:40:ASP:OD2	13:I1:202:CYC:HHB	1.95	0.66
2:J1:85:CYS:CB	13:J1:1001:CYC:HAC2	2.25	0.66
3:K1:83:CYS:HB2	13:K1:201:CYC:C1B	2.16	0.66
2:Q1:43:ARG:NH2	3:R1:26:ASP:OD1	2.28	0.66
3:T1:37:LYS:HE3	13:T1:201:CYC:O1D	1.95	0.66
3:T2:44:ARG:HH21	3:T2:149:ILE:CG1	2.08	0.66
2:D3:31:ARG:NH2	2:D3:35:ALA:HB1	2.09	0.66
3:E4:152:GLY:HA3	13:E4:202:CYC:HMD1	1.75	0.66
3:M4:40:ASP:OD2	13:M4:202:CYC:CHB	2.43	0.66
3:M4:118:TYR:CE2	3:M4:128:VAL:HG21	2.31	0.66
13:T4:202:CYC:HB	13:T4:202:CYC:HMA1	1.60	0.66
4:N5:62:LEU:CD2	4:N5:72:PHE:CG	2.43	0.66
3:R5:149:ILE:HD12	3:R5:149:ILE:N	2.11	0.66
2:F6:26:GLN:NE2	2:L6:103:GLY:O	2.28	0.66
3:I6:83:CYS:CB	13:I6:201:CYC:HAC1	2.23	0.66
6:A7:103:TYR:CZ	3:C7:117:THR:HG21	2.31	0.66
7:Z8:56:ASP:CG	7:I9:74:GLY:HA2	2.15	0.66
8:o8:15:VAL:HG11	10:09:941:ARG:HB3	1.76	0.66
7:A9:150:GLY:O	7:A9:154:ASP:HB2	1.95	0.66
8:L9:82:CYS:SG	13:L9:1001:CYC:CBC	2.83	0.66
8:j9:82:CYS:SG	13:j9:1001:CYC:CBC	2.83	0.66
8:t9:82:CYS:SG	13:t9:1001:CYC:CBC	2.83	0.66
4:N1:261:VAL:HG21	4:N1:269:LYS:HG2	1.76	0.66
2:W1:123:PHE:CD2	13:W1:1001:CYC:HAA2	2.30	0.66
3:K2:121:LEU:CD2	13:K2:201:CYC:O2D	2.42	0.66
3:R2:58:ARG:NH2	13:S2:1001:CYC:O2D	2.25	0.66
3:R2:83:CYS:CB	13:R2:1001:CYC:CAC	2.50	0.66
6:A3:90:GLU:HB2	2:J3:16:GLN:HG2	1.75	0.66
2:J3:123:PHE:CE2	13:J3:1001:CYC:HAA2	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:136:HIS:CE1	2:B4:140:ASN:HD21	2.10	0.66
3:I4:36:ASN:ND2	13:I4:202:CYC:C3D	2.58	0.66
4:N4:225:ASN:HD21	4:N4:236:VAL:HG21	1.60	0.66
3:P4:76:THR:HG23	3:P4:79:ARG:HG2	1.78	0.66
3:T4:37:LYS:HE3	13:T4:201:CYC:O1D	1.95	0.66
2:O5:5:PRO:HG3	2:W5:26:GLN:OE1	1.95	0.66
5:A6:233:ALA:HB3	7:Z8:68:PRO:HG3	1.78	0.66
2:B7:119:ILE:HD11	13:B7:1001:CYC:HMA1	0.72	0.66
7:C8:69:GLY:CA	7:I9:63:PRO:HD2	2.25	0.66
7:H8:14:GLU:CG	10:19:592:ASP:OD1	2.44	0.66
9:U8:36:ASN:ND2	10:09:842:ASN:OD1	2.29	0.66
7:p8:83:ARG:CZ	13:p8:1001:CYC:O2A	2.40	0.66
13:19:1201:CYC:HB	13:19:1201:CYC:HMA1	1.60	0.66
9:49:23:LEU:HD23	13:D9:1001:CYC:C4B	2.25	0.66
7:E9:44:THR:HG23	8:F9:19:TYR:HB3	1.77	0.66
7:w9:83:ARG:HA	5:AA:219:PHE:CE1	2.31	0.66
3:EA:152:GLY:CA	13:EA:201:CYC:CMD	2.72	0.66
4:NA:232:GLU:H	4:NA:232:GLU:CD	2.03	0.66
3:G1:82:ALA:CB	13:G1:202:CYC:C3D	2.74	0.66
2:L1:41:ALA:HB2	2:L1:147:ALA:HB3	1.75	0.66
3:P1:76:THR:HG23	3:P1:79:ARG:HG2	1.78	0.66
3:E3:83:CYS:HB3	13:E3:201:CYC:HAC2	1.72	0.66
2:F3:34:ARG:NH2	2:F3:146:GLN:HE21	1.94	0.66
3:C4:18:GLU:CD	7:V8:47:ARG:HH22	2.03	0.66
3:I4:36:ASN:HD21	13:I4:202:CYC:C3D	2.09	0.66
3:P4:89:ILE:CG2	13:P4:201:CYC:HBB2	2.25	0.66
13:S4:1001:CYC:HB	13:S4:1001:CYC:HMA1	1.60	0.66
3:T4:128:VAL:HG22	13:T4:202:CYC:C2B	2.23	0.66
13:A5:303:CYC:CBB	3:G5:93:TYR:HE2	2.08	0.66
4:N5:92:GLN:CG	4:N5:118:LEU:CD2	2.63	0.66
4:N5:160:GLN:CD	13:T5:201:CYC:OC	2.39	0.66
5:A6:230:GLY:H	7:I9:66:VAL:CB	2.08	0.66
13:C6:202:CYC:CAB	2:J6:34:ARG:NH1	2.59	0.66
3:T6:151:LYS:HA	13:T6:201:CYC:OC	1.95	0.66
6:A7:3:ILE:CG2	6:A7:4:PRO:HD2	2.26	0.66
3:G7:152:GLY:HA3	13:G7:202:CYC:CMD	2.26	0.66
3:K7:121:LEU:CD2	13:K7:201:CYC:O2D	2.42	0.66
10:19:246:LEU:HD13	10:19:258:GLN:HB3	1.77	0.66
9:29:57:ALA:HB1	8:S9:111:ASN:HD21	1.61	0.66
7:K9:83:ARG:HH12	13:K9:1001:CYC:CGA	2.09	0.66
1:A1:60:LEU:HD12	1:A1:60:LEU:H	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I1:36:ASN:HD21	13:I1:202:CYC:C3D	2.09	0.66
3:X1:124:PRO:HG2	3:X1:127:SER:HB2	1.76	0.66
2:B2:50:GLN:HG3	7:k9:57:GLN:HE22	1.59	0.66
3:G2:157:LEU:O	3:G2:160:GLU:HG3	1.95	0.66
2:J2:29:ARG:CB	13:K2:202:CYC:OC	2.43	0.66
2:W2:31:ARG:HH22	2:W2:35:ALA:CB	2.05	0.66
6:A3:80:ARG:CG	6:A3:144:LEU:CD2	2.74	0.66
1:A4:195:ILE:HG23	7:V8:80:THR:CB	2.24	0.66
3:M4:127:SER:HB2	13:M4:201:CYC:HMC3	1.76	0.66
13:G6:201:CYC:CAB	2:L6:34:ARG:HH11	2.09	0.66
3:K6:121:LEU:CG	13:K6:201:CYC:O2D	2.44	0.66
3:V6:43:ASN:HD22	13:V6:201:CYC:CBC	2.08	0.66
13:F8:1001:CYC:HMD1	13:F8:1001:CYC:HC	1.59	0.66
13:M8:1001:CYC:HMD1	13:M8:1001:CYC:HC	1.59	0.66
13:f8:1001:CYC:CMA	9:i8:26:THR:HG21	2.25	0.66
8:m8:144:ALA:HB3	8:e9:29:LYS:HZ2	0.84	0.66
10:19:960:TYR:HB3	10:19:974:VAL:HG23	1.77	0.66
8:D9:82:CYS:SG	13:D9:1001:CYC:CBC	2.83	0.66
8:c9:82:CYS:SG	13:c9:1001:CYC:CBC	2.83	0.66
7:d9:150:GLY:O	7:d9:154:ASP:HB2	1.95	0.66
2:FA:29:ARG:NE	13:GA:1002:CYC:OB	2.28	0.66
13:MA:1002:CYC:O2A	4:NA:248:GLY:HA2	1.96	0.66
13:S1:1001:CYC:HB	13:S1:1001:CYC:HMA1	1.60	0.66
5:A2:229:GLN:HA	7:X9:66:VAL:HG11	0.69	0.66
2:B2:31:ARG:NH1	2:B2:103:GLY:CA	2.59	0.66
6:A3:100:ASN:HD22	6:A3:108:ILE:HD12	1.56	0.66
6:A3:103:TYR:CZ	3:C3:117:THR:HG21	2.31	0.66
6:A3:118:ALA:HB3	6:A3:124:GLU:OE2	1.94	0.66
1:A4:198:PHE:HD1	7:V8:82:LEU:HB3	1.61	0.66
3:C4:154:CYS:SG	13:C4:302:CYC:C2C	2.76	0.66
4:N4:60:SER:OG	13:V4:202:CYC:NC	2.29	0.66
3:V4:39:LEU:CD1	13:V4:201:CYC:C1C	2.74	0.66
13:W4:1001:CYC:HB	13:W4:1001:CYC:HMA1	1.60	0.66
5:A5:131:ILE:HG13	13:A5:301:CYC:O2A	1.96	0.66
2:F5:62:GLN:HE22	3:G7:71:GLY:HA2	1.59	0.66
3:V5:87:MET:HE3	13:V5:201:CYC:HMB3	1.76	0.66
4:N6:63:ARG:HB2	13:V6:202:CYC:CGD	2.26	0.66
4:N6:230:VAL:CG2	4:N6:265:ARG:HH12	2.09	0.66
4:N6:238:ARG:O	4:N6:283:VAL:HA	1.96	0.66
6:A7:80:ARG:CG	6:A7:144:LEU:CD2	2.74	0.66
6:A7:116:ARG:HB2	6:A7:116:ARG:NH2	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C7:201:CYC:CAB	2:J7:34:ARG:NH1	2.59	0.66
7:O8:66:VAL:HG11	5:AA:234:GLN:NE2	2.07	0.66
7:n8:14:GLU:OE2	10:09:973:LEU:HD11	1.96	0.66
7:G9:150:GLY:O	7:G9:154:ASP:HB2	1.95	0.66
7:P9:83:ARG:HH12	13:P9:1001:CYC:CGA	2.09	0.66
13:AA:303:CYC:CBC	3:GA:87:MET:HE3	2.26	0.66
3:XA:154:CYS:SG	13:XA:202:CYC:HAB1	2.36	0.66
1:A1:57:HIS:CB	13:G1:202:CYC:O2A	2.41	0.66
2:J1:29:ARG:NH2	13:K1:202:CYC:OC	2.26	0.66
4:N2:230:VAL:CG2	4:N2:265:ARG:HH12	2.09	0.66
3:Z2:43:ASN:CG	13:Z2:201:CYC:CBC	2.69	0.66
6:A3:83:ILE:HD11	6:A3:159:PRO:HD3	1.76	0.66
2:B3:31:ARG:NH1	2:B3:103:GLY:CA	2.59	0.66
1:A4:150:GLN:OE1	4:N4:272:GLN:HB3	1.96	0.66
3:C4:68:ILE:CD1	13:D4:1001:CYC:O2A	2.44	0.66
2:O5:34:ARG:HH22	2:O5:150:GLU:HB2	1.61	0.66
2:Y5:34:ARG:CD	2:Y5:150:GLU:OE2	2.21	0.66
5:A6:92:GLU:OE1	2:J6:16:GLN:NE2	2.29	0.66
2:B7:31:ARG:NH1	2:B7:103:GLY:N	2.44	0.66
8:D8:3:GLN:NE2	10:09:528:ILE:CD1	2.59	0.66
7:J8:64:ASP:OD1	7:X9:69:GLY:O	2.13	0.66
7:A9:83:ARG:HH12	13:A9:1001:CYC:CGA	2.09	0.66
8:r9:82:CYS:SG	13:r9:1001:CYC:CBC	2.83	0.66
3:CA:36:ASN:ND2	13:CA:201:CYC:O2D	2.29	0.66
3:CA:149:ILE:HD12	3:CA:149:ILE:N	2.11	0.66
2:D1:85:CYS:CA	13:D1:1001:CYC:HAC2	2.26	0.65
2:J1:146:GLN:H	2:J1:146:GLN:CD	2.04	0.65
3:V1:68:ILE:HD13	13:W1:1001:CYC:O2A	1.94	0.65
3:I2:83:CYS:HB3	13:I2:201:CYC:CAC	2.23	0.65
3:K2:121:LEU:HD23	13:K2:201:CYC:O2D	1.95	0.65
2:S2:154:TYR:OH	2:Y2:22:ASN:ND2	2.28	0.65
6:A3:84:ARG:HH21	6:A3:144:LEU:CG	2.08	0.65
3:C3:93:TYR:HB2	3:C3:110:CYS:SG	2.34	0.65
2:J3:29:ARG:CB	13:K3:202:CYC:OC	2.43	0.65
4:N3:238:ARG:O	4:N3:283:VAL:HA	1.96	0.65
1:A4:84:ARG:HB2	4:N4:230:VAL:CG2	2.22	0.65
1:A4:209:THR:HG22	7:V8:63:PRO:O	1.96	0.65
2:W4:123:PHE:CD2	13:W4:1001:CYC:HAA2	2.30	0.65
13:M5:1002:CYC:O2A	4:N5:248:GLY:HA2	1.96	0.65
3:T5:60:LEU:CD2	13:T5:201:CYC:HAB2	2.26	0.65
3:T5:149:ILE:HD12	3:T5:149:ILE:N	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X5:54:THR:O	3:X5:58:ARG:CZ	2.45	0.65
5:A6:233:ALA:HB3	7:Z8:68:PRO:CG	2.26	0.65
13:C6:202:CYC:HAB2	2:J6:34:ARG:CZ	2.26	0.65
3:X6:38:ARG:NH2	3:X6:101:GLY:CA	2.59	0.65
13:C7:201:CYC:HAB2	2:J7:34:ARG:CZ	2.26	0.65
3:K7:121:LEU:CG	13:K7:201:CYC:O2D	2.44	0.65
7:E8:25:ARG:CD	7:K9:25:ARG:CZ	2.74	0.65
13:W8:1001:CYC:O2A	10:19:1001:SER:OG	2.12	0.65
9:i8:30:LYS:CD	10:09:1012:GLU:OE2	2.41	0.65
10:19:29:GLU:OE1	8:h9:108:ARG:NH2	2.29	0.65
7:E9:150:GLY:O	7:E9:154:ASP:HB2	1.95	0.65
5:AA:106:ARG:HH21	5:AA:176:THR:HG23	1.59	0.65
3:GA:154:CYS:SG	13:GA:1002:CYC:HAC2	2.36	0.65
3:PA:87:MET:HE3	13:PA:201:CYC:CBC	2.25	0.65
1:A1:150:GLN:OE1	4:N1:272:GLN:HB3	1.96	0.65
2:W1:34:ARG:HH11	2:W1:150:GLU:HB2	1.59	0.65
13:W1:1001:CYC:HB	13:W1:1001:CYC:HMA1	1.60	0.65
5:A2:60:GLU:HA	5:A2:62:LEU:HD13	1.79	0.65
2:H2:123:PHE:CE2	13:H2:1001:CYC:CAA	2.80	0.65
2:S2:91:HIS:HB3	13:S2:1001:CYC:HAB1	1.77	0.65
2:D3:81:GLY:HA2	13:D3:1001:CYC:HMD2	1.78	0.65
1:A4:207:ILE:HD11	7:V8:59:PHE:CE2	2.31	0.65
3:E4:78:ARG:HD2	3:E4:78:ARG:C	2.21	0.65
2:F5:34:ARG:HE	13:M5:1003:CYC:C2C	2.01	0.65
2:H5:34:ARG:HH12	2:H5:146:GLN:HE21	1.42	0.65
3:P5:87:MET:HE3	13:P5:201:CYC:CBC	2.25	0.65
2:Y5:6:ILE:HG13	2:Y5:31:ARG:HD2	1.78	0.65
2:B6:31:ARG:NH1	2:B6:103:GLY:CA	2.59	0.65
3:C6:93:TYR:HB2	3:C6:110:CYS:SG	2.34	0.65
3:R6:85:ARG:HD2	3:R6:85:ARG:C	2.21	0.65
2:B7:31:ARG:NH1	2:B7:103:GLY:CA	2.59	0.65
2:D7:31:ARG:NH2	2:D7:35:ALA:HB1	2.09	0.65
7:X8:126:VAL:HG22	13:X8:1001:CYC:HBC3	1.79	0.65
8:f8:107:GLU:OE2	10:09:965:GLY:C	2.40	0.65
7:n8:52:LYS:HE3	10:09:930:PHE:CE2	2.30	0.65
7:f9:150:GLY:O	7:f9:154:ASP:HB2	1.95	0.65
8:t9:63:TYR:CG	5:AA:201:PHE:HE1	2.12	0.65
7:u9:150:GLY:O	7:u9:154:ASP:HB2	1.95	0.65
8:x9:82:CYS:SG	13:x9:1001:CYC:CBC	2.83	0.65
7:y9:83:ARG:HH12	13:y9:1001:CYC:CGA	2.09	0.65
2:F1:85:CYS:HA	13:F1:1001:CYC:CAC	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J1:150:GLU:OE1	2:J1:154:TYR:HE2	1.78	0.65
3:M1:118:TYR:CE2	3:M1:128:VAL:HG21	2.31	0.65
3:T1:154:CYS:SG	13:T1:201:CYC:CMC	2.84	0.65
4:N2:238:ARG:N	4:N2:284:THR:O	2.22	0.65
3:K5:68:ILE:CD1	13:L5:201:CYC:O1A	2.37	0.65
2:S5:34:ARG:HG3	2:Y5:26:GLN:HG2	1.78	0.65
3:E6:157:LEU:O	3:E6:161:VAL:CG2	2.33	0.65
2:Q6:31:ARG:NH2	2:Q6:35:ALA:CA	2.58	0.65
3:R6:82:ALA:O	3:R6:85:ARG:HG3	1.95	0.65
4:N7:230:VAL:CG2	4:N7:265:ARG:HH12	2.09	0.65
4:N7:238:ARG:O	4:N7:283:VAL:HA	1.96	0.65
7:L8:126:VAL:HG22	13:L8:1001:CYC:HBC3	1.79	0.65
7:w9:66:VAL:HG11	5:AA:228:ASN:C	2.20	0.65
7:w9:150:GLY:O	7:w9:154:ASP:HB2	1.95	0.65
5:AA:174:LEU:HB2	13:AA:303:CYC:OB	1.97	0.65
2:BA:34:ARG:NH1	2:BA:150:GLU:HB2	2.12	0.65
2:OA:34:ARG:HH22	2:OA:150:GLU:HB2	1.61	0.65
13:J1:1001:CYC:HMA1	13:J1:1001:CYC:HB	1.60	0.65
2:B2:74:GLN:OE1	2:B2:124:ASP:HB2	1.95	0.65
13:C2:202:CYC:CAB	2:J2:34:ARG:NH1	2.59	0.65
13:G2:201:CYC:CAB	2:L2:34:ARG:HH11	2.09	0.65
13:C3:201:CYC:CAB	2:J3:34:ARG:NH1	2.59	0.65
2:B4:146:GLN:OE1	2:B4:146:GLN:N	2.20	0.65
3:G4:82:ALA:HB1	13:G4:202:CYC:C2D	2.27	0.65
5:A5:75:LYS:HE3	13:A5:304:CYC:O1D	1.90	0.65
5:A5:241:ILE:CD1	7:A9:78:THR:C	2.68	0.65
3:C5:36:ASN:ND2	13:C5:201:CYC:O2D	2.29	0.65
2:D5:34:ARG:HE	13:I5:202:CYC:H2C	1.60	0.65
2:Q5:34:ARG:HA	2:Q5:34:ARG:CZ	2.26	0.65
3:X5:154:CYS:SG	13:X5:202:CYC:HAB1	2.36	0.65
5:A6:86:ARG:HH11	4:N6:265:ARG:CZ	2.09	0.65
5:A6:86:ARG:NH1	4:N6:265:ARG:CZ	2.59	0.65
3:G6:40:ASP:HB2	13:G6:201:CYC:HHB	1.78	0.65
3:G6:154:CYS:CB	13:G6:201:CYC:HBC2	2.27	0.65
2:J6:29:ARG:CB	13:K6:202:CYC:OC	2.43	0.65
3:P6:157:LEU:O	3:P6:161:VAL:HG23	1.95	0.65
2:W6:123:PHE:CE2	13:W6:202:CYC:CAA	2.80	0.65
3:X6:73:ASN:ND2	3:X6:123:THR:CB	2.60	0.65
6:A7:71:GLN:CG	6:A7:77:ILE:CD1	2.63	0.65
3:C7:93:TYR:HB2	3:C7:110:CYS:SG	2.34	0.65
3:K7:121:LEU:HD23	13:K7:201:CYC:O2D	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I8:14:ASP:OD2	9:N8:64:ASN:ND2	2.29	0.65
7:S8:126:VAL:HG22	13:S8:1001:CYC:HBC3	1.79	0.65
7:e8:126:VAL:HG22	13:e8:1001:CYC:HBC3	1.79	0.65
7:t8:52:LYS:CE	10:19:930:PHE:HE2	2.01	0.65
8:H9:82:CYS:SG	13:H9:1001:CYC:CBC	2.83	0.65
5:AA:73:GLN:NE2	4:NA:227:GLY:CA	2.59	0.65
5:AA:131:ILE:HG13	13:AA:301:CYC:O2A	1.96	0.65
3:KA:39:LEU:HD23	13:KA:201:CYC:HMC3	1.78	0.65
1:A1:201:LEU:HD22	7:c8:52:LYS:HE3	1.79	0.65
1:A1:207:ILE:CB	7:c8:66:VAL:CG2	2.55	0.65
3:M1:127:SER:HB2	13:M1:201:CYC:HMC3	1.76	0.65
3:T1:39:LEU:HD13	13:T1:201:CYC:HBB2	1.78	0.65
5:A2:92:GLU:OE1	2:J2:16:GLN:NE2	2.29	0.65
2:B2:68:THR:HA	2:B2:77:ALA:HA	1.79	0.65
3:G2:152:GLY:HA3	13:G2:201:CYC:CMD	2.26	0.65
4:N2:47:ASP:CG	4:N2:85:LYS:HZ3	2.04	0.65
3:G3:40:ASP:HB2	13:G3:202:CYC:HHB	1.78	0.65
3:T4:39:LEU:HD13	13:T4:201:CYC:HBB2	1.78	0.65
3:T4:154:CYS:SG	13:T4:201:CYC:CMC	2.84	0.65
3:E5:149:ILE:HD12	3:E5:149:ILE:N	2.12	0.65
5:A6:60:GLU:HA	5:A6:62:LEU:HD13	1.79	0.65
3:G6:152:GLY:HA3	13:G6:201:CYC:CMD	2.26	0.65
7:E8:126:VAL:HG22	13:E8:1001:CYC:HBC3	1.79	0.65
9:G8:36:ASN:CG	10:09:586:ARG:NH2	2.55	0.65
7:g8:126:VAL:HG22	13:g8:1001:CYC:HBC3	1.79	0.65
8:o8:11:ASN:HD21	10:09:944:SER:HB3	1.60	0.65
9:49:14:LEU:HD23	8:D9:77:ARG:NE	2.09	0.65
8:z9:82:CYS:SG	13:z9:1001:CYC:CBC	2.83	0.65
2:SA:32:TYR:CZ	3:TA:35:GLY:CA	2.79	0.65
1:A1:193:GLY:C	7:c8:83:ARG:HD2	2.21	0.65
1:A1:199:LEU:CD2	7:c8:75:GLN:C	2.70	0.65
4:N1:21:VAL:HG22	4:N1:148:VAL:HG12	1.79	0.65
4:N1:30:GLU:OE2	2:W1:2:VAL:N	2.30	0.65
2:O1:146:GLN:OE1	2:O1:146:GLN:N	2.20	0.65
3:C2:121:LEU:HD21	13:C2:201:CYC:HAA2	1.79	0.65
3:K2:121:LEU:CG	13:K2:201:CYC:O2D	2.44	0.65
4:N2:154:PHE:HE1	4:N2:172:TYR:OH	1.75	0.65
2:S2:5:PRO:CG	2:Y2:23:THR:OG1	2.41	0.65
2:W2:31:ARG:HH11	2:W2:103:GLY:CA	2.08	0.65
2:Y2:74:GLN:HA	13:Y2:201:CYC:CBD	2.25	0.65
2:H3:123:PHE:CE2	13:H3:1001:CYC:CAA	2.80	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I3:58:ARG:HH12	13:J3:1001:CYC:CGD	2.10	0.65
13:J4:1001:CYC:HB	13:J4:1001:CYC:HMA1	1.60	0.65
2:Q4:146:GLN:H	2:Q4:146:GLN:CD	2.03	0.65
2:B6:30:GLY:HA3	2:J6:30:GLY:CA	2.16	0.65
2:B6:68:THR:HA	2:B6:77:ALA:HA	1.79	0.65
3:T6:76:THR:HG22	3:T6:79:ARG:NH2	2.12	0.65
2:W6:31:ARG:HH11	2:W6:103:GLY:CA	2.08	0.65
2:Y6:31:ARG:HH22	2:Y6:35:ALA:CA	1.96	0.65
6:A7:84:ARG:NH2	6:A7:144:LEU:HD12	2.12	0.65
3:G7:154:CYS:CB	13:G7:202:CYC:HBC2	2.27	0.65
7:E8:69:GLY:HA3	7:E9:60:GLN:CG	2.26	0.65
7:H8:126:VAL:HG22	13:H8:1001:CYC:HBC3	1.79	0.65
7:u9:83:ARG:HH12	13:u9:1001:CYC:CGA	2.09	0.65
4:NA:91:PHE:CE1	13:NA:301:CYC:C3B	2.80	0.65
1:A1:214:PRO:O	7:l8:59:PHE:HB2	1.95	0.65
2:S1:146:GLN:OE1	2:S1:146:GLN:N	2.21	0.65
2:D2:81:GLY:HA2	13:D2:1001:CYC:HMD2	1.79	0.65
3:G2:154:CYS:HB2	13:G2:201:CYC:CBC	2.27	0.65
2:H2:85:CYS:HA	13:H2:1001:CYC:HAC2	1.77	0.65
4:N2:238:ARG:O	4:N2:283:VAL:HA	1.96	0.65
13:N2:301:CYC:HC	13:N2:301:CYC:CMD	2.10	0.65
3:T2:76:THR:HG22	3:T2:79:ARG:NH2	2.12	0.65
2:U2:74:GLN:OE1	2:U2:124:ASP:CB	2.45	0.65
6:A3:158:VAL:HG12	6:A3:159:PRO:CD	2.24	0.65
2:D4:85:CYS:CA	13:D4:1001:CYC:HAC2	2.26	0.65
3:G4:78:ARG:HB3	3:G4:78:ARG:NH1	2.12	0.65
13:M4:201:CYC:HB	13:M4:201:CYC:CMA	2.10	0.65
2:W4:119:ILE:CD1	13:W4:1001:CYC:CMA	2.74	0.65
3:V5:154:CYS:SG	13:V5:202:CYC:HAB1	2.37	0.65
5:A6:195:ARG:NH1	3:G6:66:GLN:HE22	1.94	0.65
3:E6:54:THR:O	3:E6:58:ARG:HG3	1.97	0.65
13:U6:202:CYC:O1A	3:Z6:68:ILE:HD13	1.97	0.65
2:D7:81:GLY:HA2	13:D7:1001:CYC:HMD2	1.78	0.65
8:k8:120:LEU:HD21	10:09:1052:GLN:NE2	2.12	0.65
7:r8:126:VAL:HG22	13:r8:1001:CYC:HBC3	1.79	0.65
5:AA:60:GLU:O	5:AA:62:LEU:N	2.30	0.65
4:NA:160:GLN:CD	13:TA:201:CYC:OC	2.39	0.65
3:VA:154:CYS:SG	13:VA:202:CYC:HAB1	2.37	0.65
1:A1:195:ILE:HG23	7:c8:80:THR:CA	2.27	0.65
2:B1:123:PHE:CE2	13:B1:1001:CYC:CAA	2.80	0.65
2:B2:31:ARG:NH1	2:B2:103:GLY:N	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U2:33:GLU:N	2:U2:33:GLU:OE1	2.30	0.65
6:A3:15:GLN:NE2	6:A3:162:ARG:O	2.29	0.65
6:A3:84:ARG:NH2	6:A3:144:LEU:HD12	2.12	0.65
3:G3:154:CYS:HB2	13:G3:202:CYC:CBC	2.27	0.65
3:I4:150:THR:OG1	13:I4:202:CYC:HAA2	1.96	0.65
3:M4:65:PRO:O	3:M4:68:ILE:CG2	2.45	0.65
2:S4:85:CYS:CA	13:S4:1001:CYC:HAC2	2.26	0.65
3:T4:128:VAL:CG2	13:T4:202:CYC:CMB	2.50	0.65
13:A5:303:CYC:CBC	3:G5:87:MET:HE3	2.26	0.65
2:F5:34:ARG:NH2	13:M5:1003:CYC:CAC	2.44	0.65
3:G5:154:CYS:SG	13:G5:201:CYC:HAC2	2.36	0.65
4:N5:91:PHE:CE1	13:N5:301:CYC:C3B	2.80	0.65
2:H6:85:CYS:HA	13:H6:1001:CYC:HAC2	1.77	0.65
3:I6:58:ARG:HH12	13:J6:1001:CYC:CGD	2.10	0.65
13:N6:301:CYC:CMD	13:N6:301:CYC:HC	2.10	0.65
6:A7:100:ASN:HD22	6:A7:108:ILE:HD12	1.56	0.65
2:H7:29:ARG:NH1	13:I7:202:CYC:CMD	2.59	0.65
7:Q8:126:VAL:HG22	13:Q8:1001:CYC:HBC3	1.79	0.65
8:s8:78:ARG:HH12	10:19:947:VAL:CB	2.08	0.65
7:N9:8:ILE:O	7:N9:12:ASP:HB2	1.97	0.65
7:P9:150:GLY:O	7:P9:154:ASP:HB2	1.95	0.65
3:ZA:39:LEU:CD2	13:ZA:202:CYC:CMC	2.66	0.65
2:B1:136:HIS:CE1	2:B1:140:ASN:HD21	2.10	0.65
13:C2:202:CYC:HAB2	2:J2:34:ARG:CZ	2.26	0.65
2:Q2:34:ARG:NH2	2:Q2:150:GLU:OE1	2.29	0.65
3:Z2:43:ASN:HB2	13:Z2:201:CYC:HBC3	1.79	0.65
3:E3:54:THR:O	3:E3:58:ARG:HG3	1.97	0.65
13:N3:301:CYC:CMD	13:N3:301:CYC:HC	2.10	0.65
2:D4:98:TYR:OH	3:E4:18:GLU:O	2.15	0.65
5:A5:60:GLU:O	5:A5:62:LEU:CG	2.40	0.65
5:A5:73:GLN:NE2	4:N5:227:GLY:CA	2.60	0.65
3:E5:78:ARG:HB2	2:F5:114:ALA:HB3	1.76	0.65
3:K5:39:LEU:HD23	13:K5:201:CYC:HMC3	1.78	0.65
3:G6:85:ARG:O	3:G6:89:ILE:HG13	1.97	0.65
13:N6:301:CYC:HB	13:N6:301:CYC:CMA	2.10	0.65
2:S6:91:HIS:HB3	13:S6:1001:CYC:HAB1	1.78	0.65
3:X6:87:MET:SD	13:X6:201:CYC:HBC1	2.37	0.65
3:Z6:43:ASN:HB2	13:Z6:201:CYC:HBC3	1.79	0.65
6:A7:80:ARG:HD2	6:A7:144:LEU:HD11	1.79	0.65
3:G7:154:CYS:HB2	13:G7:202:CYC:CBC	2.27	0.65
13:N7:301:CYC:HB	13:N7:301:CYC:CMA	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f8:1001:CYC:HMA2	9:i8:26:THR:HG21	1.77	0.65
8:s8:116:THR:HG1	10:19:1103:LEU:HD21	1.52	0.65
7:T9:8:ILE:O	7:T9:12:ASP:HB2	1.97	0.65
7:X9:83:ARG:HH12	13:X9:1001:CYC:CGA	2.09	0.65
7:Z9:8:ILE:O	7:Z9:12:ASP:HB2	1.97	0.65
2:OA:6:ILE:HD11	2:OA:31:ARG:HD3	1.79	0.65
3:TA:149:ILE:HD12	3:TA:149:ILE:N	2.12	0.65
3:P1:89:ILE:CG2	13:P1:201:CYC:HBB2	2.25	0.65
5:A2:195:ARG:HH22	3:G2:66:GLN:NE2	1.94	0.65
3:G2:40:ASP:HB2	13:G2:201:CYC:HHB	1.78	0.65
1:A4:60:LEU:HD12	1:A4:60:LEU:H	1.60	0.65
2:J4:119:ILE:CD1	13:J4:1001:CYC:HMA2	2.25	0.65
2:J4:123:PHE:CD2	13:J4:1001:CYC:HAA2	2.31	0.65
3:I5:40:ASP:OD1	13:I5:202:CYC:HHB	1.97	0.65
4:N5:232:GLU:H	4:N5:232:GLU:CD	2.03	0.65
13:N5:301:CYC:HBC3	3:R5:87:MET:CE	2.26	0.65
2:O5:33:GLU:CB	2:W5:29:ARG:NH2	2.60	0.65
2:S5:32:TYR:CZ	3:T5:35:GLY:CA	2.79	0.65
5:A6:246:ALA:HB1	7:C8:79:ALA:HB3	1.77	0.65
2:Q6:34:ARG:NH2	2:Q6:150:GLU:OE1	2.29	0.65
2:W6:123:PHE:CE2	13:W6:202:CYC:HAA1	2.32	0.65
3:Z6:43:ASN:CG	13:Z6:201:CYC:CBC	2.69	0.65
2:H7:123:PHE:CE2	13:H7:1001:CYC:CAA	2.80	0.65
7:Z8:126:VAL:HG22	13:Z8:1001:CYC:HBC3	1.79	0.65
7:l8:126:VAL:HG22	13:l8:1001:CYC:HBC3	1.79	0.65
8:o8:77:ARG:HD2	10:09:1117:TRP:NE1	2.12	0.65
10:09:986:PHE:CZ	10:09:1113:VAL:HG12	2.32	0.65
10:19:507:ARG:HB3	10:19:654:THR:HG22	1.77	0.65
7:k9:83:ARG:HH12	13:k9:1001:CYC:CGA	2.09	0.65
2:HA:34:ARG:HH12	2:HA:146:GLN:HE21	1.42	0.65
2:OA:6:ILE:CG1	2:OA:31:ARG:CD	2.75	0.65
1:A1:131:ILE:CD1	1:A1:139:PHE:CD2	2.80	0.64
3:E1:78:ARG:HD2	3:E1:78:ARG:C	2.21	0.64
3:M1:150:THR:OG1	13:M1:202:CYC:HAA2	1.97	0.64
4:N1:60:SER:OG	13:V1:202:CYC:NC	2.29	0.64
2:S1:85:CYS:CA	13:S1:1001:CYC:HAC2	2.26	0.64
3:G2:44:ARG:HH12	3:G2:145:ASP:CA	2.11	0.64
13:G3:202:CYC:CAB	2:L3:34:ARG:HH11	2.09	0.64
1:A4:176:ARG:HB3	13:G4:202:CYC:HBA1	1.79	0.64
2:B4:123:PHE:CE2	13:B4:1001:CYC:CAA	2.80	0.64
3:P4:68:ILE:HD12	13:Q4:201:CYC:O1A	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F6:34:ARG:NH2	2:F6:146:GLN:HE21	1.94	0.64
2:U6:33:GLU:N	2:U6:33:GLU:OE1	2.30	0.64
7:c8:13:ALA:O	10:09:996:ARG:NH1	2.30	0.64
7:p8:126:VAL:HG22	13:p8:1001:CYC:HBC3	1.79	0.64
7:C9:8:ILE:O	7:C9:12:ASP:HB2	1.97	0.64
13:MA:1002:CYC:CMA	13:MA:1002:CYC:HB	2.10	0.64
2:OA:33:GLU:CB	2:WA:29:ARG:NH2	2.60	0.64
3:G1:78:ARG:HB3	3:G1:78:ARG:NH1	2.12	0.64
2:J1:123:PHE:CD2	13:J1:1001:CYC:HAA2	2.31	0.64
2:S1:143:LEU:HD23	2:S1:148:ALA:HA	1.79	0.64
5:A2:86:ARG:NH1	4:N2:265:ARG:CZ	2.59	0.64
2:F2:34:ARG:NH2	2:F2:146:GLN:HE21	1.94	0.64
3:R2:85:ARG:HD2	3:R2:85:ARG:C	2.21	0.64
2:W2:123:PHE:CE2	13:W2:202:CYC:CAA	2.80	0.64
6:A3:3:ILE:CG2	6:A3:4:PRO:HD2	2.26	0.64
2:B3:31:ARG:NH1	2:B3:103:GLY:N	2.44	0.64
2:F4:146:GLN:OE1	2:F4:146:GLN:N	2.20	0.64
13:M4:201:CYC:CMD	13:M4:201:CYC:HC	2.10	0.64
3:P4:68:ILE:HD11	13:Q4:201:CYC:O2A	1.95	0.64
5:A5:34:ARG:HB3	5:A5:37:ASP:OD2	1.96	0.64
5:A5:174:LEU:HB2	13:A5:303:CYC:OB	1.97	0.64
5:A5:222:LEU:HB3	7:q9:82:LEU:HD13	1.79	0.64
13:A5:302:CYC:CMC	3:E5:128:VAL:HG22	2.27	0.64
3:C5:149:ILE:HD12	3:C5:149:ILE:N	2.11	0.64
13:M5:1002:CYC:HC	13:M5:1002:CYC:CMD	2.10	0.64
2:H6:123:PHE:CE2	13:H6:1001:CYC:CAA	2.80	0.64
3:K6:121:LEU:HD23	13:K6:201:CYC:O2D	1.95	0.64
2:F7:34:ARG:HH12	2:F7:146:GLN:HG3	1.62	0.64
3:G7:85:ARG:O	3:G7:89:ILE:HG13	1.97	0.64
7:O8:154:ASP:OD1	8:v9:47:ALA:HB2	1.98	0.64
7:c8:126:VAL:HG22	13:c8:1001:CYC:HBC3	1.79	0.64
13:s8:1001:CYC:CGD	10:19:947:VAL:O	2.45	0.64
10:09:53:ARG:HA	10:09:56:ILE:HD12	1.79	0.64
7:w9:73:TYR:HH	2:BA:79:SER:HB3	1.62	0.64
3:P1:68:ILE:HD11	13:Q1:201:CYC:O2A	1.95	0.64
3:P1:118:TYR:CE2	3:P1:128:VAL:HG21	2.32	0.64
2:U2:28:ALA:CB	3:V2:39:LEU:HD21	2.28	0.64
2:W2:85:CYS:SG	13:W2:202:CYC:HAC2	2.38	0.64
3:K3:121:LEU:CG	13:K3:201:CYC:O2D	2.44	0.64
2:B4:82:LYS:O	8:W8:26:GLU:HB3	1.97	0.64
2:L4:51:ARG:HH12	3:C7:148:GLY:N	1.87	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E5:152:GLY:N	13:E5:201:CYC:CMD	2.61	0.64
5:A6:216:PRO:O	7:I9:79:ALA:HB1	1.97	0.64
2:Y6:74:GLN:HA	13:Y6:201:CYC:CBD	2.25	0.64
6:A7:158:VAL:HG12	6:A7:159:PRO:CD	2.24	0.64
3:G7:142:ILE:O	3:G7:145:ASP:CG	2.41	0.64
2:J7:119:ILE:CD1	13:J7:1001:CYC:HMA3	2.27	0.64
7:O8:23:LEU:HB3	8:P8:39:VAL:HG13	1.78	0.64
8:W8:88:TYR:OH	10:19:998:GLU:N	2.30	0.64
7:j8:9:VAL:HG23	10:09:1029:THR:CG2	2.26	0.64
8:m8:70:GLY:C	10:09:942:GLY:CA	2.71	0.64
7:p8:9:VAL:HG22	10:19:1024:ARG:NH2	2.12	0.64
10:19:760:TYR:OH	8:t9:84:ARG:NH1	2.29	0.64
10:19:994:TYR:OH	10:19:1026:ARG:NH2	2.30	0.64
7:K9:8:ILE:O	7:K9:12:ASP:HB2	1.97	0.64
7:d9:8:ILE:O	7:d9:12:ASP:HB2	1.97	0.64
7:u9:8:ILE:O	7:u9:12:ASP:HB2	1.97	0.64
3:PA:87:MET:HE3	13:PA:201:CYC:HBC3	1.79	0.64
1:A1:207:ILE:HG22	7:c8:59:PHE:CB	2.16	0.64
2:J1:119:ILE:CD1	13:J1:1001:CYC:HMA2	2.25	0.64
13:T1:202:CYC:HMA1	13:T1:202:CYC:HB	1.60	0.64
2:Y2:31:ARG:CZ	2:Y2:35:ALA:HB2	2.23	0.64
2:Y2:74:GLN:HE22	2:Y2:124:ASP:HB3	1.60	0.64
13:C3:201:CYC:HAB2	2:J3:34:ARG:CZ	2.26	0.64
3:G3:152:GLY:HA3	13:G3:202:CYC:CMD	2.26	0.64
1:A4:131:ILE:CD1	1:A4:139:PHE:CD2	2.80	0.64
13:A5:303:CYC:OC	3:G5:74:ALA:CB	2.43	0.64
2:B6:31:ARG:NH1	2:B6:103:GLY:N	2.44	0.64
3:E6:44:ARG:HH21	3:E6:149:ILE:HD12	1.28	0.64
3:G7:44:ARG:HH12	3:G7:145:ASP:CA	2.11	0.64
3:I7:58:ARG:HH12	13:J7:1001:CYC:CGD	2.10	0.64
7:O8:126:VAL:HG22	13:O8:1001:CYC:HBC3	1.79	0.64
7:t8:126:VAL:HG22	13:t8:1001:CYC:HBC3	1.79	0.64
10:09:986:PHE:HZ	10:09:1113:VAL:HG12	1.62	0.64
10:19:986:PHE:CE1	13:19:1201:CYC:CBA	2.79	0.64
7:b9:83:ARG:HH12	13:b9:1001:CYC:CGA	2.09	0.64
7:q9:115:MET:HE1	13:q9:1001:CYC:HHB	1.80	0.64
7:s9:8:ILE:O	7:s9:12:ASP:HB2	1.97	0.64
3:I1:150:THR:OG1	13:I1:202:CYC:HAA2	1.96	0.64
13:M1:201:CYC:CMD	13:M1:201:CYC:HC	2.10	0.64
5:A2:195:ARG:NH1	3:G2:66:GLN:HE22	1.94	0.64
3:G2:154:CYS:CB	13:G2:201:CYC:HBC2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T2:44:ARG:NH2	3:T2:149:ILE:CG1	2.61	0.64
2:U2:28:ALA:HB3	3:V2:39:LEU:HD21	1.79	0.64
2:Y2:88:ASP:OD2	13:Y2:201:CYC:NA	2.31	0.64
13:A5:301:CYC:HBD1	3:C5:121:LEU:HD23	1.79	0.64
2:B5:34:ARG:NH1	2:B5:150:GLU:HB2	2.12	0.64
2:Q5:32:TYR:HE1	3:R5:35:GLY:HA3	1.55	0.64
5:A6:195:ARG:HH22	3:G6:66:GLN:NE2	1.94	0.64
2:B6:85:CYS:HA	13:B6:1001:CYC:HAC2	1.80	0.64
3:C6:121:LEU:HD21	13:C6:201:CYC:HAA2	1.79	0.64
2:O6:29:ARG:HD2	13:W6:201:CYC:OC	1.97	0.64
2:O6:31:ARG:HH22	2:O6:35:ALA:CB	2.02	0.64
2:Y6:31:ARG:CZ	2:Y6:35:ALA:HB2	2.23	0.64
3:Z6:38:ARG:HH22	3:Z6:101:GLY:CA	2.11	0.64
3:Z6:52:ILE:HD11	3:Z6:142:ILE:HD12	1.79	0.64
6:A7:13:GLN:HB3	6:A7:119:TYR:CE2	2.30	0.64
6:A7:15:GLN:NE2	6:A7:162:ARG:O	2.29	0.64
8:B8:77:ARG:HD3	10:09:542:GLU:CD	2.22	0.64
7:V8:126:VAL:HG22	13:V8:1001:CYC:HBC3	1.79	0.64
7:G9:8:ILE:O	7:G9:12:ASP:HB2	1.97	0.64
7:X9:8:ILE:O	7:X9:12:ASP:HB2	1.97	0.64
3:EA:152:GLY:N	13:EA:201:CYC:CMD	2.61	0.64
13:NA:301:CYC:HBC3	3:RA:87:MET:CE	2.26	0.64
2:SA:34:ARG:HG3	2:YA:26:GLN:HG2	1.78	0.64
1:A1:55:SER:O	1:A1:59:ILE:CG2	2.43	0.64
1:A1:199:LEU:CD2	7:c8:76:GLU:HA	2.20	0.64
4:N1:61:LEU:HB3	4:N1:67:LEU:HG	1.79	0.64
5:A2:86:ARG:HH11	4:N2:265:ARG:CZ	2.09	0.64
4:N2:63:ARG:HB2	13:V2:202:CYC:CGD	2.26	0.64
3:T2:37:LYS:HB2	3:T2:157:LEU:CD1	2.27	0.64
2:D3:31:ARG:HH21	2:D3:35:ALA:CA	2.11	0.64
3:G3:142:ILE:O	3:G3:145:ASP:CG	2.41	0.64
3:I4:40:ASP:OD2	13:I4:202:CYC:C4A	2.46	0.64
3:M4:150:THR:OG1	13:M4:202:CYC:HAA2	1.97	0.64
5:A5:75:LYS:HE3	13:A5:304:CYC:CBD	2.28	0.64
5:A5:228:ASN:O	7:q9:66:VAL:HG13	1.95	0.64
5:A5:234:GLN:N	7:A9:66:VAL:CG1	2.60	0.64
3:G6:154:CYS:HB2	13:G6:201:CYC:CBC	2.27	0.64
3:I6:38:ARG:HG2	3:I6:157:LEU:HD11	1.80	0.64
2:J6:119:ILE:CD1	13:J6:1001:CYC:HMA3	2.27	0.64
2:Q6:26:GLN:CG	2:U6:34:ARG:HD3	2.16	0.64
3:T6:44:ARG:NH2	3:T6:149:ILE:CG1	2.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U6:28:ALA:CB	3:V6:39:LEU:HD21	2.28	0.64
2:U6:28:ALA:HB3	3:V6:39:LEU:HD21	1.79	0.64
2:F7:34:ARG:NH2	2:F7:146:GLN:HE21	1.94	0.64
7:A8:126:VAL:HG22	13:A8:1001:CYC:HBC3	1.79	0.64
9:N8:20:GLN:OE1	10:19:520:LYS:HD3	1.98	0.64
9:i8:22:GLU:O	9:i8:22:GLU:HG3	1.96	0.64
8:u8:15:VAL:HG13	10:19:942:GLY:N	2.11	0.64
7:k9:94:TYR:HE1	8:l9:20:LEU:HG	1.62	0.64
2:HA:6:ILE:HG13	2:HA:31:ARG:HD2	1.80	0.64
3:TA:89:ILE:CG1	13:TA:201:CYC:HMC3	2.14	0.64
2:F1:143:LEU:HD23	2:F1:148:ALA:HA	1.79	0.64
3:I1:128:VAL:HG23	13:I1:201:CYC:CMC	2.25	0.64
2:W1:119:ILE:CD1	13:W1:1001:CYC:CMA	2.74	0.64
5:A2:191:GLN:CA	7:d9:75:GLN:HE21	2.07	0.64
5:A2:202:TYR:CZ	7:d9:48:GLU:HA	2.31	0.64
13:N2:301:CYC:CMA	13:N2:301:CYC:HB	2.10	0.64
3:Z2:38:ARG:HH22	3:Z2:101:GLY:CA	2.11	0.64
13:A3:301:CYC:HAC2	3:C3:83:CYS:HB3	1.73	0.64
2:F3:34:ARG:NH2	2:F3:146:GLN:NE2	2.40	0.64
2:D4:150:GLU:OE1	2:H4:22:ASN:ND2	2.31	0.64
2:J4:146:GLN:H	2:J4:146:GLN:CD	2.04	0.64
5:A5:60:GLU:O	5:A5:62:LEU:N	2.30	0.64
3:C5:68:ILE:HD13	13:D5:1001:CYC:O2A	1.92	0.64
6:A7:63:ASN:ND2	6:A7:91:VAL:HG21	2.13	0.64
3:E7:39:LEU:HD13	13:E7:202:CYC:CBB	2.28	0.64
3:E7:83:CYS:HB2	13:E7:201:CYC:CAC	2.15	0.64
3:G7:40:ASP:HB2	13:G7:202:CYC:HHB	1.78	0.64
7:n8:126:VAL:HG22	13:n8:1001:CYC:HBC3	1.79	0.64
9:49:14:LEU:HD22	8:D9:77:ARG:HD2	1.79	0.64
7:I9:115:MET:HE1	13:I9:1001:CYC:HHB	1.80	0.64
3:G1:150:THR:OG1	13:G1:201:CYC:HAD1	1.98	0.64
3:M1:65:PRO:O	3:M1:68:ILE:CG2	2.45	0.64
13:M1:201:CYC:HB	13:M1:201:CYC:CMA	2.10	0.64
2:L2:100:LEU:HD22	2:L2:150:GLU:OE2	1.98	0.64
2:W2:123:PHE:CE2	13:W2:202:CYC:HAA1	2.32	0.64
6:A3:50:TYR:HD1	6:A3:54:PHE:CD2	2.16	0.64
2:L3:29:ARG:HH12	13:M3:201:CYC:CMD	2.11	0.64
3:C4:154:CYS:SG	13:C4:302:CYC:CAC	2.86	0.64
3:K4:121:LEU:HD23	13:K4:201:CYC:O2D	1.94	0.64
4:N4:30:GLU:OE2	2:W4:2:VAL:N	2.30	0.64
5:A5:201:PHE:CD2	7:u9:76:GLU:CB	2.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B5:35:ALA:CB	3:C5:32:VAL:HG12	2.27	0.64
13:M5:1002:CYC:CMA	13:M5:1002:CYC:HB	2.10	0.64
3:X5:144:ASN:O	13:X5:202:CYC:CBB	2.43	0.64
2:L6:29:ARG:HH12	13:M6:201:CYC:HMD1	1.63	0.64
2:O6:34:ARG:HH22	13:X6:202:CYC:CAC	2.06	0.64
2:W6:29:ARG:CG	13:X6:202:CYC:OC	2.46	0.64
2:B7:68:THR:HA	2:B7:77:ALA:HA	1.79	0.64
2:L7:100:LEU:HD22	2:L7:150:GLU:OE2	1.98	0.64
7:O8:66:VAL:HG21	5:AA:234:GLN:NE2	2.13	0.64
8:m8:69:PRO:O	10:09:936:SER:CB	2.46	0.64
8:m8:78:ARG:NH1	10:09:948:GLY:N	2.46	0.64
10:09:272:LYS:CE	9:29:22:GLU:OE2	2.45	0.64
7:f9:8:ILE:O	7:f9:12:ASP:HB2	1.97	0.64
3:KA:152:GLY:HA3	13:KA:201:CYC:CMA	2.28	0.64
2:YA:6:ILE:HG13	2:YA:31:ARG:HD2	1.78	0.64
3:C1:154:CYS:SG	13:C1:302:CYC:CAC	2.86	0.64
2:D1:150:GLU:OE1	2:H1:22:ASN:ND2	2.31	0.64
3:G1:82:ALA:HB1	13:G1:202:CYC:C2D	2.27	0.64
2:L1:51:ARG:HH12	3:C3:148:GLY:CA	2.09	0.64
3:V1:39:LEU:HD12	13:V1:201:CYC:C1C	2.28	0.64
2:O2:29:ARG:HD2	13:W2:201:CYC:OC	1.97	0.64
3:X2:73:ASN:ND2	3:X2:123:THR:CB	2.60	0.64
2:L3:100:LEU:HD22	2:L3:150:GLU:OE2	1.98	0.64
4:N4:21:VAL:HG22	4:N4:148:VAL:HG12	1.79	0.64
5:A5:39:SER:CB	3:M5:109:ARG:HH21	2.10	0.64
3:R5:157:LEU:HD13	3:R5:157:LEU:C	2.23	0.64
3:Z5:83:CYS:HA	13:Z5:201:CYC:HAC1	1.80	0.64
2:F6:34:ARG:NH2	2:F6:146:GLN:NE2	2.40	0.64
3:K6:38:ARG:HH11	3:K6:38:ARG:CG	2.11	0.64
2:U6:74:GLN:OE1	2:U6:124:ASP:CB	2.45	0.64
3:E7:54:THR:O	3:E7:58:ARG:HG3	1.97	0.64
7:t8:83:ARG:CD	10:19:933:LEU:HB2	2.26	0.64
10:09:75:ILE:HD11	10:09:200:ALA:HB1	1.78	0.64
7:i9:115:MET:HE1	13:i9:1001:CYC:HHB	1.80	0.64
7:w9:8:ILE:O	7:w9:12:ASP:HB2	1.97	0.64
5:AA:48:ILE:HD13	5:AA:71:GLU:HB3	1.80	0.64
2:DA:34:ARG:HE	13:IA:202:CYC:H2C	1.60	0.64
3:MA:40:ASP:OD1	13:MA:1003:CYC:HHB	1.98	0.64
13:MA:1002:CYC:HC	13:MA:1002:CYC:CMD	2.10	0.64
1:A1:209:THR:HB	7:c8:67:SER:CB	2.28	0.64
2:O1:85:CYS:CA	13:O1:1001:CYC:CAC	2.54	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E2:54:THR:O	3:E2:58:ARG:HG3	1.97	0.64
3:G2:85:ARG:O	3:G2:89:ILE:HG13	1.97	0.64
3:P2:157:LEU:O	3:P2:161:VAL:HG23	1.98	0.64
2:S2:33:GLU:N	2:S2:33:GLU:OE2	2.31	0.64
3:X2:87:MET:SD	13:X2:201:CYC:HBC1	2.37	0.64
2:H3:91:HIS:HB3	13:H3:1001:CYC:HAB1	1.80	0.64
3:K3:145:ASP:OD1	3:K3:146:PRO:HD2	1.98	0.64
13:Q4:202:CYC:CAC	3:R4:154:CYS:SG	2.86	0.64
5:A5:214:GLY:H	5:A5:218:LYS:HE2	1.62	0.64
3:C5:75:TYR:OH	2:D5:94:ARG:NH1	2.32	0.64
3:X5:142:ILE:O	3:X5:145:ASP:OD1	2.16	0.64
3:P6:43:ASN:HD22	13:W6:201:CYC:HBC3	1.50	0.64
3:T6:44:ARG:HH21	3:T6:149:ILE:HG12	1.63	0.64
3:V6:34:GLU:HG2	3:V6:34:GLU:O	1.98	0.64
2:Y6:31:ARG:HH22	2:Y6:35:ALA:CB	1.98	0.64
3:Z6:138:ALA:O	3:Z6:142:ILE:HG13	1.98	0.64
13:k8:1001:CYC:HBA1	10:09:1059:ASN:ND2	2.13	0.64
7:p8:106:GLU:OE1	10:19:1118:SER:CA	2.45	0.64
8:s8:78:ARG:NH1	10:19:947:VAL:HB	2.09	0.64
7:A9:8:ILE:O	7:A9:12:ASP:HB2	1.97	0.64
7:E9:97:VAL:HG21	8:F9:20:LEU:HD13	1.80	0.64
7:G9:115:MET:HE1	13:G9:1001:CYC:HHB	1.80	0.64
7:T9:115:MET:HE1	13:T9:1001:CYC:HHB	1.80	0.64
8:U9:84:ARG:HH11	8:U9:84:ARG:CG	2.11	0.64
7:y9:8:ILE:O	7:y9:12:ASP:HB2	1.97	0.64
3:XA:142:ILE:O	3:XA:145:ASP:OD1	2.16	0.64
1:A1:176:ARG:HB3	13:G1:202:CYC:HBA1	1.80	0.63
2:O1:146:GLN:H	2:O1:146:GLN:CD	2.05	0.63
3:V1:83:CYS:SG	13:V1:202:CYC:C4B	2.87	0.63
3:E2:39:LEU:HD13	13:E2:202:CYC:CBB	2.28	0.63
3:K2:38:ARG:HH11	3:K2:38:ARG:CG	2.11	0.63
2:O2:31:ARG:HD3	2:O2:31:ARG:O	1.98	0.63
3:Z2:151:LYS:HA	13:Z2:201:CYC:C4B	2.27	0.63
6:A3:73:ARG:HG3	6:A3:73:ARG:NH1	2.07	0.63
3:G3:154:CYS:CB	13:G3:202:CYC:HBC2	2.27	0.63
13:N3:301:CYC:CMA	13:N3:301:CYC:HB	2.10	0.63
1:A4:201:LEU:HD22	7:V8:52:LYS:HE3	1.80	0.63
2:F4:85:CYS:SG	13:F4:1001:CYC:H2C	2.38	0.63
2:F4:143:LEU:HD23	2:F4:148:ALA:HA	1.79	0.63
3:G4:150:THR:OG1	13:G4:201:CYC:HAD1	1.98	0.63
3:V5:83:CYS:SG	13:V5:201:CYC:C1B	2.86	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A6:234:GLN:NE2	7:C8:73:TYR:CE1	2.60	0.63
2:Y6:88:ASP:OD2	13:Y6:201:CYC:NA	2.31	0.63
2:B7:85:CYS:HA	13:B7:1001:CYC:HAC2	1.80	0.63
3:I7:38:ARG:HG2	3:I7:157:LEU:HD11	1.80	0.63
3:K7:145:ASP:OD1	3:K7:146:PRO:HD2	1.98	0.63
13:B8:1001:CYC:CMA	10:09:572:ILE:HG23	2.28	0.63
8:u8:119:SER:OG	10:19:1114:LYS:O	2.14	0.63
7:E9:8:ILE:O	7:E9:12:ASP:HB2	1.97	0.63
7:k9:8:ILE:O	7:k9:12:ASP:HB2	1.97	0.63
3:GA:149:ILE:HD12	3:GA:149:ILE:N	2.14	0.63
2:QA:31:ARG:NH1	2:QA:103:GLY:HA2	2.11	0.63
3:RA:157:LEU:HD13	3:RA:157:LEU:C	2.23	0.63
1:A1:168:ARG:CB	1:A1:173:VAL:HG21	2.28	0.63
2:D1:98:TYR:OH	3:E1:18:GLU:O	2.15	0.63
2:W2:29:ARG:HG2	13:W2:203:CYC:OC	1.88	0.63
2:Y2:74:GLN:NE2	2:Y2:124:ASP:CB	2.41	0.63
3:Z2:138:ALA:O	3:Z2:142:ILE:HG13	1.98	0.63
2:D3:23:THR:CG2	2:D3:24:GLU:OE2	2.45	0.63
1:A4:189:ARG:NH2	1:A4:189:ARG:O	2.30	0.63
4:N4:109:TYR:O	4:N4:167:ARG:NH1	2.31	0.63
2:S4:141:HIS:ND1	2:S4:143:LEU:HB2	2.13	0.63
5:A5:215:ASP:N	5:A5:218:LYS:HE3	2.14	0.63
3:K5:152:GLY:HA3	13:K5:201:CYC:CMA	2.28	0.63
4:N5:62:LEU:CD2	4:N5:72:PHE:CE1	2.74	0.63
5:A6:191:GLN:CA	7:N9:75:GLN:HE21	2.11	0.63
2:Q6:31:ARG:HG2	2:U6:26:GLN:OE1	1.98	0.63
2:S6:33:GLU:OE2	2:S6:33:GLU:N	2.31	0.63
7:J8:126:VAL:HG22	13:J8:1001:CYC:HBC3	1.79	0.63
7:O8:79:ALA:CB	5:AA:246:ALA:HB3	2.29	0.63
7:j8:126:VAL:HG22	13:j8:1001:CYC:HBC3	1.79	0.63
7:N9:83:ARG:HH12	13:N9:1001:CYC:CGA	2.09	0.63
7:P9:8:ILE:O	7:P9:12:ASP:HB2	1.97	0.63
7:R9:8:ILE:O	7:R9:12:ASP:HB2	1.97	0.63
7:b9:8:ILE:O	7:b9:12:ASP:HB2	1.97	0.63
7:o9:8:ILE:O	7:o9:12:ASP:HB2	1.97	0.63
2:FA:94:ARG:NH2	3:GA:14:ASP:OD1	2.31	0.63
3:K1:121:LEU:HD13	3:K1:121:LEU:O	1.99	0.63
13:K2:201:CYC:HAC2	4:N2:226:LEU:HD12	1.81	0.63
3:M2:83:CYS:CB	13:N2:301:CYC:CAC	2.26	0.63
2:O2:73:PRO:CB	3:T2:58:ARG:CZ	2.77	0.63
3:V2:34:GLU:HG2	3:V2:34:GLU:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A3:301:CYC:CAA	3:C3:121:LEU:HD11	2.26	0.63
2:B3:68:THR:HA	2:B3:77:ALA:HA	1.79	0.63
2:F3:34:ARG:HH12	2:F3:146:GLN:HG3	1.62	0.63
1:A4:168:ARG:CB	1:A4:173:VAL:HG21	2.28	0.63
3:I4:128:VAL:HG23	13:I4:201:CYC:CMC	2.25	0.63
3:M4:12:GLN:NE2	3:R4:126:SER:HB2	2.14	0.63
3:V4:39:LEU:HD12	13:V4:201:CYC:C1C	2.28	0.63
13:I5:201:CYC:HAA2	4:N5:263:TYR:OH	1.99	0.63
3:M5:40:ASP:OD1	13:M5:1003:CYC:HHB	1.98	0.63
2:D6:31:ARG:NH1	2:D6:103:GLY:CA	2.61	0.63
3:T6:37:LYS:HB2	3:T6:157:LEU:CD1	2.27	0.63
3:Z6:151:LYS:HA	13:Z6:201:CYC:C4B	2.27	0.63
2:D7:31:ARG:NH1	2:D7:103:GLY:CA	2.61	0.63
7:C8:126:VAL:HG22	13:C8:1001:CYC:HBC3	1.79	0.63
8:I8:76:THR:HG22	7:J8:115:MET:SD	2.38	0.63
13:k8:1001:CYC:HBB2	10:09:1033:ASN:HD22	1.62	0.63
8:s8:78:ARG:HH11	10:19:947:VAL:C	1.98	0.63
10:09:698:GLU:C	10:09:700:GLY:H	2.06	0.63
7:P9:115:MET:HE1	13:P9:1001:CYC:HHB	1.80	0.63
7:Z9:115:MET:HE1	13:Z9:1001:CYC:HHB	1.80	0.63
7:i9:8:ILE:O	7:i9:12:ASP:HB2	1.97	0.63
5:AA:178:ARG:HH22	3:GA:78:ARG:NH2	1.96	0.63
3:IA:40:ASP:OD1	13:IA:202:CYC:HHB	1.97	0.63
3:XA:149:ILE:HD12	3:XA:149:ILE:N	2.14	0.63
1:A1:67:ASN:CG	3:K1:92:ARG:NH1	2.56	0.63
1:A1:198:PHE:HD1	7:c8:82:LEU:HB3	1.63	0.63
3:M1:12:GLN:NE2	3:R1:126:SER:HB2	2.14	0.63
3:T1:158:ILE:HD11	13:T1:201:CYC:CBC	2.28	0.63
3:G2:142:ILE:O	3:G2:145:ASP:CG	2.41	0.63
3:I2:58:ARG:HH12	13:J2:1001:CYC:CGD	2.10	0.63
13:U2:202:CYC:O1A	3:Z2:68:ILE:HD13	1.97	0.63
2:H3:29:ARG:NH1	13:I3:202:CYC:CMD	2.59	0.63
2:J3:119:ILE:CD1	13:J3:1001:CYC:HMA3	2.27	0.63
2:L4:41:ALA:HB2	2:L4:147:ALA:HB3	1.75	0.63
3:V4:83:CYS:SG	13:V4:202:CYC:C4B	2.86	0.63
5:A5:48:ILE:HD13	5:A5:71:GLU:HB3	1.80	0.63
3:K6:38:ARG:HH11	3:K6:38:ARG:HG3	1.64	0.63
2:S6:88:ASP:OD1	13:S6:1001:CYC:CHB	2.47	0.63
6:A7:11:SER:HG	6:A7:119:TYR:C	2.04	0.63
3:K7:38:ARG:HH11	3:K7:38:ARG:CG	2.11	0.63
7:A8:69:GLY:HA3	7:K9:64:ASP:OD2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a8:84:ARG:CZ	13:b8:1001:CYC:O2A	2.46	0.63
8:a9:77:ARG:HB3	7:b9:110:ILE:HG23	1.81	0.63
2:OA:33:GLU:HB2	2:WA:29:ARG:HH21	1.63	0.63
1:A1:198:PHE:CD1	7:c8:82:LEU:HB2	2.34	0.63
2:D2:31:ARG:NH1	2:D2:103:GLY:CA	2.61	0.63
3:T2:44:ARG:HH21	3:T2:149:ILE:HG12	1.63	0.63
2:B3:85:CYS:HA	13:B3:1001:CYC:HAC2	1.80	0.63
3:E3:39:LEU:HD13	13:E3:202:CYC:CBB	2.28	0.63
4:N3:230:VAL:CG2	4:N3:265:ARG:HH12	2.09	0.63
3:I4:119:GLN:NE2	3:T4:122:GLY:HA2	2.14	0.63
2:S4:146:GLN:H	2:S4:146:GLN:CD	2.07	0.63
2:D5:32:TYR:CZ	3:E5:35:GLY:HA3	2.34	0.63
2:D5:34:ARG:HH11	13:I5:202:CYC:CBC	2.12	0.63
3:P6:34:GLU:HA	3:P6:37:LYS:HZ2	1.63	0.63
2:U6:119:ILE:CD1	13:U6:202:CYC:HMA3	2.28	0.63
6:A7:50:TYR:HD1	6:A7:54:PHE:CD2	2.16	0.63
6:A7:116:ARG:HH12	6:A7:118:ALA:HA	1.63	0.63
13:N7:301:CYC:CMD	13:N7:301:CYC:HC	2.10	0.63
8:B8:77:ARG:CD	10:09:542:GLU:OE2	2.46	0.63
7:C8:9:VAL:CG1	10:09:540:PHE:HZ	2.06	0.63
7:H8:64:ASP:OD1	7:Z9:69:GLY:HA3	1.99	0.63
7:Q8:69:GLY:HA3	7:u9:64:ASP:OD2	1.98	0.63
8:W8:88:TYR:OH	10:19:998:GLU:HB3	1.99	0.63
8:Y8:84:ARG:CZ	13:Y8:1001:CYC:O2A	2.46	0.63
7:e8:12:ASP:OD1	9:i8:21:ARG:NH1	2.30	0.63
7:n8:15:ALA:O	10:09:989:GLN:HG3	1.98	0.63
8:o8:118:ASN:HA	7:C9:60:GLN:HG3	1.81	0.63
7:b9:115:MET:HE1	13:b9:1001:CYC:HHB	1.80	0.63
7:s9:115:MET:HE1	13:s9:1001:CYC:HHB	1.80	0.63
13:AA:302:CYC:CMC	3:EA:128:VAL:HG22	2.27	0.63
1:A1:191:ILE:CG2	8:h8:68:ARG:HH11	2.12	0.63
3:G1:43:ASN:HD22	13:G1:201:CYC:HMB1	1.64	0.63
3:G1:70:PRO:HG2	8:d8:18:LYS:NZ	2.13	0.63
2:H1:87:ARG:NH2	3:M1:68:ILE:HD11	2.14	0.63
4:N1:109:TYR:O	4:N1:167:ARG:NH1	2.31	0.63
1:A4:67:ASN:CG	3:K4:92:ARG:NH1	2.56	0.63
1:A4:199:LEU:HD23	7:V8:79:ALA:HB2	1.79	0.63
3:K4:121:LEU:HD13	3:K4:121:LEU:O	1.99	0.63
3:T4:118:TYR:CE2	3:T4:128:VAL:HG21	2.34	0.63
2:H5:6:ILE:HG13	2:H5:31:ARG:HD2	1.80	0.63
2:O5:6:ILE:HD11	2:O5:31:ARG:HD3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S5:31:ARG:HH11	2:S5:103:GLY:HA3	1.64	0.63
3:X5:83:CYS:SG	13:X5:201:CYC:HAC2	2.39	0.63
3:I6:83:CYS:HB3	13:I6:201:CYC:CAC	2.23	0.63
3:K6:145:ASP:OD1	3:K6:146:PRO:HD2	1.98	0.63
3:T6:76:THR:HG22	3:T6:79:ARG:NE	2.13	0.63
8:K8:106:ASP:OD2	10:19:529:GLY:HA2	1.98	0.63
7:I9:8:ILE:O	7:I9:12:ASP:HB2	1.97	0.63
7:f9:115:MET:HE1	13:f9:1001:CYC:HHB	1.80	0.63
7:k9:115:MET:HE1	13:k9:1001:CYC:HHB	1.80	0.63
5:AA:92:GLU:HA	5:AA:95:TYR:HB3	1.81	0.63
13:AA:303:CYC:OC	3:GA:74:ALA:CB	2.43	0.63
3:EA:149:ILE:HD12	3:EA:149:ILE:N	2.12	0.63
3:RA:150:THR:O	13:RA:201:CYC:HMD2	1.99	0.63
2:F1:85:CYS:SG	13:F1:1001:CYC:H2C	2.38	0.63
3:I1:40:ASP:OD2	13:I1:202:CYC:C4A	2.46	0.63
3:P1:77:ASN:HD21	2:Q1:116:LEU:N	1.96	0.63
5:A2:197:THR:OG1	7:d9:78:THR:HG21	1.99	0.63
2:H2:91:HIS:HB3	13:H2:1001:CYC:HAB1	1.80	0.63
2:U2:119:ILE:CD1	13:U2:202:CYC:HMA3	2.28	0.63
3:Z2:38:ARG:HG2	3:Z2:157:LEU:CD2	2.29	0.63
6:A3:63:ASN:ND2	6:A3:91:VAL:HG21	2.13	0.63
3:G3:85:ARG:O	3:G3:89:ILE:HG13	1.97	0.63
3:K3:38:ARG:HH11	3:K3:38:ARG:CG	2.11	0.63
2:L4:55:GLY:HA2	3:C7:151:LYS:NZ	2.14	0.63
2:S4:143:LEU:HD23	2:S4:148:ALA:HA	1.79	0.63
3:P5:87:MET:HE3	13:P5:201:CYC:HBC3	1.79	0.63
3:Z5:157:LEU:HD23	3:Z5:157:LEU:N	2.03	0.63
3:G6:142:ILE:O	3:G6:145:ASP:CG	2.41	0.63
2:H6:91:HIS:HB3	13:H6:1001:CYC:HAB1	1.80	0.63
2:W6:85:CYS:SG	13:W6:202:CYC:HAC2	2.38	0.63
2:H7:91:HIS:HB3	13:H7:1001:CYC:HAB1	1.80	0.63
7:L8:49:ARG:HH12	8:W9:140:SER:CB	2.12	0.63
7:L8:94:TYR:OH	8:M8:18:LYS:O	2.16	0.63
8:R8:108:ARG:NH1	10:09:732:VAL:HG12	2.14	0.63
7:E9:115:MET:HE1	13:E9:1001:CYC:HHB	1.80	0.63
7:X9:115:MET:HE1	13:X9:1001:CYC:HHB	1.80	0.63
13:AA:304:CYC:HAC1	3:KA:114:LEU:HD11	1.81	0.63
3:VA:83:CYS:SG	13:VA:201:CYC:C1B	2.86	0.63
3:M1:68:ILE:O	3:M1:68:ILE:HD12	1.99	0.63
2:Y1:119:ILE:CD1	13:Y1:201:CYC:HMA1	2.29	0.63
3:P2:108:ASP:HB2	3:P2:109:ARG:HD2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S2:88:ASP:OD1	13:S2:1001:CYC:CHB	2.47	0.63
3:Z2:52:ILE:HD11	3:Z2:142:ILE:HD12	1.79	0.63
3:K3:38:ARG:HH11	3:K3:38:ARG:HG3	1.64	0.63
1:A4:172:LEU:HD23	1:A4:172:LEU:O	1.99	0.63
4:N4:61:LEU:HB3	4:N4:67:LEU:HG	1.79	0.63
3:P4:118:TYR:CE2	3:P4:128:VAL:HG21	2.32	0.63
3:V4:64:GLN:HE22	3:V4:127:SER:HA	1.64	0.63
5:A5:178:ARG:HH22	3:G5:78:ARG:NH2	1.96	0.63
2:F5:94:ARG:NH2	3:G5:14:ASP:OD1	2.31	0.63
5:A6:228:ASN:CB	7:I9:59:PHE:CB	2.77	0.63
3:I6:108:ASP:HB2	3:I6:109:ARG:HD2	1.81	0.63
3:X6:108:ASP:HB2	3:X6:109:ARG:HD2	1.81	0.63
8:B8:84:ARG:NH1	10:09:572:ILE:CD1	2.61	0.63
7:N9:115:MET:HE1	13:N9:1001:CYC:HHB	1.80	0.63
12:m9:83:ARG:NH1	13:m9:201:CYC:O1A	2.32	0.63
2:LA:31:ARG:HH11	2:LA:103:GLY:CA	2.12	0.63
3:ZA:83:CYS:HA	13:ZA:201:CYC:HAC1	1.80	0.63
3:C1:154:CYS:SG	13:C1:302:CYC:HAC2	2.39	0.63
2:H1:143:LEU:HD23	2:H1:148:ALA:HA	1.80	0.63
3:K1:110:CYS:HA	13:K1:201:CYC:HBC1	1.81	0.63
13:Q1:202:CYC:CAC	3:R1:154:CYS:SG	2.86	0.63
3:T1:118:TYR:CE2	3:T1:128:VAL:HG21	2.34	0.63
2:B2:85:CYS:HA	13:B2:1001:CYC:HAC2	1.80	0.63
2:O2:29:ARG:HH12	13:W2:201:CYC:HMD2	1.24	0.63
2:D3:31:ARG:NH1	2:D3:103:GLY:CA	2.61	0.63
3:M3:108:ASP:HB2	3:M3:109:ARG:HD2	1.81	0.63
1:A4:198:PHE:CD1	7:V8:82:LEU:CB	2.81	0.63
1:A4:201:LEU:CD2	7:V8:82:LEU:HD13	2.28	0.63
3:G4:43:ASN:HD22	13:G4:201:CYC:HMB1	1.64	0.63
2:Y4:119:ILE:CD1	13:Y4:201:CYC:HMA1	2.29	0.63
13:A5:304:CYC:CMC	3:K5:89:ILE:CG1	2.76	0.63
3:K5:44:ARG:HH21	3:K5:149:ILE:CD1	2.12	0.63
3:V6:108:ASP:HB2	3:V6:109:ARG:HD2	1.81	0.63
3:Z6:108:ASP:HB2	3:Z6:109:ARG:HD2	1.81	0.63
3:G7:41:VAL:HG22	13:G7:202:CYC:HBC3	1.81	0.63
13:q8:1001:CYC:CMA	10:19:1034:THR:HG22	2.28	0.63
7:q9:8:ILE:O	7:q9:12:ASP:HB2	1.97	0.63
1:A1:198:PHE:CZ	7:c8:86:ASP:HB2	2.34	0.62
3:G1:70:PRO:CG	8:d8:18:LYS:NZ	2.61	0.62
3:I1:73:ASN:HD21	13:I1:201:CYC:HMD2	1.62	0.62
2:F2:34:ARG:HH12	2:F2:146:GLN:HG3	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H2:29:ARG:NH1	13:I2:202:CYC:CMD	2.58	0.62
3:K2:60:LEU:HD21	13:K2:201:CYC:HBB1	1.81	0.62
3:R2:108:ASP:HB2	3:R2:109:ARG:HD2	1.81	0.62
3:Z2:43:ASN:CB	13:Z2:201:CYC:HBC3	2.29	0.62
13:B3:1001:CYC:CGD	3:G3:58:ARG:NH1	2.55	0.62
3:C3:70:PRO:CB	3:E3:17:GLY:HA3	2.29	0.62
2:L3:29:ARG:HH12	13:M3:201:CYC:HMD1	1.63	0.62
3:I4:73:ASN:HD21	13:I4:201:CYC:HMD2	1.62	0.62
5:A5:216:PRO:O	7:q9:79:ALA:HB1	1.99	0.62
3:Z5:157:LEU:H	3:Z5:157:LEU:CD2	2.02	0.62
3:P6:108:ASP:HB2	3:P6:109:ARG:HD2	1.81	0.62
3:C7:70:PRO:CB	3:E7:17:GLY:HA3	2.29	0.62
2:L7:29:ARG:HH12	13:M7:201:CYC:CMD	2.11	0.62
8:D8:40:ARG:NH1	7:E9:38:ARG:HH22	1.96	0.62
8:D8:84:ARG:CZ	13:D8:1001:CYC:O2A	2.46	0.62
13:F8:1001:CYC:HBB2	9:G8:42:GLN:HE22	1.64	0.62
8:W8:84:ARG:CZ	13:W8:1001:CYC:O2A	2.46	0.62
8:k8:11:ASN:OD1	10:09:1121:SER:HA	1.98	0.62
9:29:23:LEU:HB3	8:U9:88:TYR:OH	1.98	0.62
8:e9:63:TYR:OH	13:f9:1001:CYC:O1D	2.14	0.62
7:o9:83:ARG:HH12	13:o9:1001:CYC:CGA	2.09	0.62
3:PA:149:ILE:HD12	3:PA:149:ILE:N	2.14	0.62
1:A1:164:ARG:O	1:A1:164:ARG:HG3	1.99	0.62
3:C2:70:PRO:CB	3:E2:17:GLY:HA3	2.29	0.62
2:L2:31:ARG:HD3	2:L2:31:ARG:C	2.23	0.62
6:A3:61:LYS:HD2	6:A3:61:LYS:C	2.24	0.62
6:A3:71:GLN:O	6:A3:75:ARG:N	2.32	0.62
6:A3:80:ARG:HD2	6:A3:144:LEU:HD11	1.79	0.62
3:G3:41:VAL:CG2	13:G3:202:CYC:HBC3	2.30	0.62
1:A4:55:SER:O	1:A4:59:ILE:CG2	2.43	0.62
1:A4:61:LYS:HD2	1:A4:61:LYS:C	2.25	0.62
1:A4:129:ILE:HD11	3:C4:85:ARG:HH22	1.64	0.62
1:A4:168:ARG:NH2	1:A4:172:LEU:CD1	2.62	0.62
2:O4:146:GLN:H	2:O4:146:GLN:CD	2.06	0.62
2:O4:146:GLN:OE1	2:O4:146:GLN:N	2.20	0.62
3:I5:145:ASP:O	13:I5:202:CYC:CBB	2.47	0.62
3:T5:144:ASN:O	13:T5:202:CYC:HMC2	2.00	0.62
3:X5:149:ILE:HD12	3:X5:149:ILE:N	2.14	0.62
3:Z5:39:LEU:CD2	13:Z5:202:CYC:CMC	2.66	0.62
13:K6:201:CYC:HAC2	4:N6:226:LEU:HD12	1.81	0.62
2:O6:31:ARG:O	2:O6:31:ARG:HD3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P6:37:LYS:CD	3:P6:154:CYS:SG	2.87	0.62
13:U6:202:CYC:O1A	3:Z6:68:ILE:CD1	2.46	0.62
3:X6:38:ARG:CG	3:X6:157:LEU:HD21	2.28	0.62
3:Z6:82:ALA:HB3	13:Z6:202:CYC:HMD1	1.81	0.62
3:M7:108:ASP:HB2	3:M7:109:ARG:HD2	1.81	0.62
9:G8:20:GLN:OE1	10:09:520:LYS:HE3	1.99	0.62
3:IA:145:ASP:O	13:IA:202:CYC:CBB	2.47	0.62
2:QA:32:TYR:HE1	3:RA:35:GLY:HA3	1.55	0.62
2:SA:31:ARG:HH11	2:SA:103:GLY:HA3	1.64	0.62
3:TA:144:ASN:O	13:TA:202:CYC:HMC2	1.99	0.62
2:B1:85:CYS:SG	13:B1:1001:CYC:HAC2	2.40	0.62
3:I1:119:GLN:NE2	3:T1:122:GLY:HA2	2.13	0.62
3:E2:156:GLN:O	3:E2:160:GLU:HG2	2.00	0.62
3:I2:38:ARG:HG2	3:I2:157:LEU:HD11	1.80	0.62
2:L2:29:ARG:HH12	13:M2:201:CYC:HMD1	1.63	0.62
2:Q2:30:GLY:HA2	2:U2:30:GLY:HA2	1.81	0.62
3:Z2:108:ASP:HB2	3:Z2:109:ARG:HD2	1.81	0.62
6:A3:148:GLU:O	6:A3:152:ASN:CG	2.42	0.62
3:C3:70:PRO:HB3	3:E3:17:GLY:HA3	1.82	0.62
3:C4:68:ILE:HD13	13:D4:1001:CYC:O2A	1.99	0.62
2:J4:146:GLN:OE1	2:J4:146:GLN:N	2.20	0.62
4:N5:92:GLN:HA	4:N5:92:GLN:NE2	2.14	0.62
3:E6:39:LEU:HD13	13:E6:202:CYC:CBB	2.28	0.62
3:G6:154:CYS:HB3	13:G6:201:CYC:CAC	2.26	0.62
3:R6:108:ASP:HB2	3:R6:109:ARG:HD2	1.81	0.62
3:T6:152:GLY:CA	13:T6:201:CYC:CMD	2.74	0.62
3:K7:108:ASP:HB2	3:K7:109:ARG:HD2	1.81	0.62
2:L7:31:ARG:HD3	2:L7:31:ARG:C	2.23	0.62
7:n8:15:ALA:C	10:09:989:GLN:HG3	2.24	0.62
10:09:20:LEU:HD11	7:T9:21:GLY:HA3	1.81	0.62
7:f9:83:ARG:HH12	13:f9:1001:CYC:CGA	2.09	0.62
7:s9:83:ARG:HH12	13:s9:1001:CYC:CGA	2.09	0.62
7:u9:115:MET:HE1	13:u9:1001:CYC:HHB	1.80	0.62
7:w9:115:MET:HE1	13:w9:1001:CYC:HHB	1.80	0.62
2:BA:35:ALA:CB	3:CA:32:VAL:HG12	2.27	0.62
13:IA:201:CYC:HAA2	4:NA:263:TYR:OH	1.99	0.62
4:NA:62:LEU:HD21	4:NA:72:PHE:HD1	0.80	0.62
3:XA:83:CYS:SG	13:XA:201:CYC:HAC2	2.39	0.62
1:A1:198:PHE:CZ	7:c8:83:ARG:HA	2.34	0.62
3:R1:77:ASN:OD1	13:S1:1001:CYC:NB	2.33	0.62
2:S1:141:HIS:ND1	2:S1:143:LEU:HB2	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:70:PRO:HB3	3:E2:17:GLY:HA3	1.81	0.62
2:D2:23:THR:CG2	2:D2:24:GLU:OE2	2.45	0.62
3:K2:145:ASP:OD1	3:K2:146:PRO:HD2	1.98	0.62
3:V2:108:ASP:HB2	3:V2:109:ARG:HD2	1.81	0.62
2:L3:94:ARG:NH2	3:M3:17:GLY:HA2	2.14	0.62
3:P4:77:ASN:HD21	2:Q4:116:LEU:N	1.96	0.62
2:O5:6:ILE:CG1	2:O5:31:ARG:CD	2.75	0.62
3:R5:150:THR:O	13:R5:201:CYC:HMD2	1.99	0.62
5:A6:166:ARG:O	5:A6:166:ARG:HD2	1.99	0.62
3:C6:70:PRO:CB	3:E6:17:GLY:HA3	2.29	0.62
3:E6:156:GLN:O	3:E6:160:GLU:HG2	1.99	0.62
3:G6:44:ARG:HH12	3:G6:145:ASP:HB2	0.79	0.62
2:L6:94:ARG:NH2	3:M6:17:GLY:HA2	2.15	0.62
2:O6:73:PRO:CB	3:T6:58:ARG:CZ	2.77	0.62
3:G7:44:ARG:HH12	3:G7:145:ASP:HB2	0.79	0.62
8:o8:113:LEU:HD11	13:o8:1001:CYC:CMB	2.29	0.62
7:t8:83:ARG:HD3	10:19:933:LEU:C	2.25	0.62
8:u8:15:VAL:HG13	10:19:942:GLY:HA3	1.80	0.62
10:19:750:ARG:NH1	7:s9:13:ALA:O	2.33	0.62
7:o9:107:ILE:HG23	8:t9:75:THR:HG23	1.82	0.62
7:q9:83:ARG:HH12	13:q9:1001:CYC:CGA	2.09	0.62
2:DA:32:TYR:CZ	3:EA:35:GLY:HA3	2.34	0.62
2:FA:34:ARG:NH2	13:MA:1003:CYC:CAC	2.44	0.62
3:M1:65:PRO:O	3:M1:68:ILE:HG23	2.00	0.62
13:U1:1001:CYC:C4B	3:Z1:77:ASN:OD1	2.48	0.62
5:A2:92:GLU:HB3	2:J2:16:GLN:HE21	1.64	0.62
3:E2:108:ASP:HB2	3:E2:109:ARG:HD2	1.81	0.62
3:P2:37:LYS:CB	3:P2:154:CYS:SG	2.85	0.62
3:X2:60:LEU:CD1	3:X2:87:MET:CE	2.77	0.62
6:A3:133:SER:O	2:B3:17:GLY:CA	2.48	0.62
13:B3:1001:CYC:O2D	3:G3:58:ARG:NH2	2.33	0.62
2:J4:20:LEU:HD13	3:K4:99:LEU:HD13	1.81	0.62
5:A5:239:PHE:HA	7:A9:52:LYS:HE2	1.79	0.62
2:B6:68:THR:O	2:B6:77:ALA:HB1	2.00	0.62
2:D6:23:THR:CG2	2:D6:24:GLU:OE2	2.45	0.62
3:I6:115:ARG:HH22	4:N6:9:ARG:HD2	0.82	0.62
6:A7:148:GLU:O	6:A7:152:ASN:CG	2.42	0.62
3:C7:111:LEU:HD11	3:C7:168:ALA:HA	1.82	0.62
7:C9:6:LYS:O	7:C9:10:ASN:HB2	2.00	0.62
8:J9:156:TYR:OH	8:M9:114:LYS:NZ	2.30	0.62
7:K9:115:MET:HE1	13:K9:1001:CYC:HHB	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AA:60:GLU:O	5:AA:62:LEU:CG	2.40	0.62
1:A1:172:LEU:HD23	1:A1:172:LEU:O	1.99	0.62
3:C1:68:ILE:HD13	13:D1:1001:CYC:O2A	1.99	0.62
2:D1:143:LEU:HD23	2:D1:148:ALA:HA	1.81	0.62
2:U2:88:ASP:OD1	13:U2:202:CYC:CHB	2.48	0.62
3:Z2:83:CYS:HB3	13:Z2:202:CYC:CHD	2.30	0.62
3:Z2:87:MET:HE2	13:Z2:202:CYC:CBC	1.91	0.62
2:D3:31:ARG:HD3	2:D3:35:ALA:HB2	1.82	0.62
3:G3:108:ASP:HB2	3:G3:109:ARG:HD2	1.81	0.62
2:L3:31:ARG:HD3	2:L3:31:ARG:C	2.23	0.62
2:D4:85:CYS:CB	13:D4:1001:CYC:HAC2	2.29	0.62
5:A5:216:PRO:HG3	8:p9:63:TYR:HE1	1.63	0.62
13:A5:303:CYC:H2C	3:G5:83:CYS:SG	2.40	0.62
3:G5:149:ILE:HD12	3:G5:149:ILE:N	2.13	0.62
13:B6:1001:CYC:O2D	3:G6:58:ARG:NH2	2.33	0.62
2:D6:31:ARG:HD3	2:D6:35:ALA:HB2	1.82	0.62
2:F6:34:ARG:HH12	2:F6:146:GLN:HG3	1.62	0.62
3:K6:144:ASN:CB	3:K6:158:ILE:CD1	2.77	0.62
2:L6:31:ARG:HD3	2:L6:31:ARG:C	2.23	0.62
2:O6:123:PHE:CE2	13:O6:1001:CYC:CAA	2.83	0.62
2:Q6:30:GLY:HA2	2:U6:30:GLY:HA2	1.80	0.62
3:T6:108:ASP:HB2	3:T6:109:ARG:HD2	1.81	0.62
2:Y6:74:GLN:HE22	2:Y6:124:ASP:HB3	1.60	0.62
3:G7:41:VAL:CG2	13:G7:202:CYC:HBC3	2.30	0.62
3:I7:83:CYS:HB3	13:I7:201:CYC:CAC	2.23	0.62
3:I7:108:ASP:HB2	3:I7:109:ARG:HD2	1.81	0.62
3:K7:60:LEU:HD21	13:K7:201:CYC:HBB1	1.81	0.62
7:E8:113:ARG:HH22	7:G9:113:ARG:HH21	1.47	0.62
8:Y8:88:TYR:CE1	13:Y8:1001:CYC:HBB3	2.35	0.62
8:f8:88:TYR:CE1	13:f8:1001:CYC:HBB3	2.35	0.62
8:k8:88:TYR:CE1	13:k8:1001:CYC:HBB3	2.35	0.62
9:49:25:ASN:N	9:49:25:ASN:HD22	1.95	0.62
7:A9:115:MET:CE	13:A9:1001:CYC:CHB	2.78	0.62
7:K9:6:LYS:O	7:K9:10:ASN:HB2	2.00	0.62
8:M9:77:ARG:HB3	7:N9:110:ILE:HG23	1.82	0.62
7:T9:83:ARG:HH12	13:T9:1001:CYC:CGA	2.09	0.62
7:f9:115:MET:CE	13:f9:1001:CYC:CHB	2.78	0.62
13:AA:302:CYC:O1D	3:EA:78:ARG:NH2	2.30	0.62
13:AA:303:CYC:H2C	3:GA:83:CYS:SG	2.40	0.62
1:A1:84:ARG:HD3	4:N1:230:VAL:HG11	1.82	0.62
1:A1:189:ARG:O	1:A1:189:ARG:NH2	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:193:GLY:HA3	7:c8:87:TYR:OH	1.99	0.62
2:D2:31:ARG:HD3	2:D2:35:ALA:HB2	1.82	0.62
2:L2:94:ARG:NH2	3:M2:17:GLY:HA2	2.15	0.62
3:P2:38:ARG:NH2	3:P2:98:ILE:O	2.32	0.62
2:S2:31:ARG:O	2:S2:35:ALA:CB	2.48	0.62
13:U2:202:CYC:O1A	3:Z2:68:ILE:CD1	2.47	0.62
3:X2:83:CYS:HB2	13:X2:201:CYC:HAC1	1.77	0.62
3:I3:38:ARG:HG2	3:I3:157:LEU:HD11	1.80	0.62
3:M4:68:ILE:O	3:M4:68:ILE:HD12	1.99	0.62
3:V4:68:ILE:CD1	13:W4:1001:CYC:O1A	2.47	0.62
13:A5:303:CYC:HBB1	3:G5:93:TYR:HE2	1.59	0.62
2:B6:31:ARG:NH1	2:B6:103:GLY:HA3	2.14	0.62
3:K6:108:ASP:HB2	3:K6:109:ARG:HD2	1.81	0.62
8:T8:88:TYR:CE1	13:T8:1001:CYC:HBB3	2.35	0.62
10:09:684:ASP:H	8:O9:129:GLN:HE22	1.48	0.62
7:R9:115:MET:CE	13:R9:1001:CYC:CHB	2.78	0.62
7:Z9:115:MET:CE	13:Z9:1001:CYC:CHB	2.78	0.62
7:b9:6:LYS:O	7:b9:10:ASN:HB2	2.00	0.62
7:d9:115:MET:HE1	13:d9:1001:CYC:HHB	1.80	0.62
7:i9:6:LYS:O	7:i9:10:ASN:HB2	2.00	0.62
7:o9:115:MET:CE	13:o9:1001:CYC:CHB	2.78	0.62
7:u9:115:MET:CE	13:u9:1001:CYC:CHB	2.78	0.62
5:AA:14:ASN:HA	13:AA:302:CYC:HMA3	1.82	0.62
3:KA:44:ARG:HH21	3:KA:149:ILE:CD1	2.12	0.62
1:A1:125:ILE:O	1:A1:128:SER:OG	2.17	0.62
3:X1:83:CYS:SG	13:X1:201:CYC:HAC2	2.38	0.62
5:A2:230:GLY:N	7:X9:66:VAL:HG11	2.03	0.62
3:I2:108:ASP:HB2	3:I2:109:ARG:HD2	1.81	0.62
2:L2:31:ARG:HH22	2:L2:35:ALA:HB1	1.65	0.62
2:O2:123:PHE:CE2	13:O2:1001:CYC:CAA	2.83	0.62
2:W2:29:ARG:HG2	3:X2:39:LEU:CD1	2.29	0.62
3:G3:44:ARG:HH12	3:G3:145:ASP:HB2	0.79	0.62
13:A5:304:CYC:HAC1	3:K5:114:LEU:HD11	1.81	0.62
2:F5:63:LYS:N	3:G7:66:GLN:HG3	2.15	0.62
3:C6:70:PRO:HB3	3:E6:17:GLY:HA3	1.81	0.62
3:C6:111:LEU:HD11	3:C6:168:ALA:HA	1.82	0.62
3:X6:60:LEU:CD1	3:X6:87:MET:CE	2.77	0.62
6:A7:96:VAL:HG12	6:A7:105:LEU:HD21	1.81	0.62
2:B7:68:THR:O	2:B7:77:ALA:HB1	2.00	0.62
3:E7:156:GLN:O	3:E7:160:GLU:HG2	1.99	0.62
8:F8:88:TYR:CE1	13:F8:1001:CYC:HBB3	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a8:88:TYR:CE1	13:b8:1001:CYC:HBB3	2.35	0.62
8:u8:84:ARG:CZ	13:19:1201:CYC:O2A	2.46	0.62
10:19:281:ALA:O	10:19:285:ASN:ND2	2.33	0.62
10:19:956:PRO:CG	10:19:1091:TYR:CD2	2.82	0.62
7:I9:6:LYS:O	7:I9:10:ASN:HB2	2.00	0.62
7:P9:6:LYS:O	7:P9:10:ASN:HB2	2.00	0.62
7:T9:115:MET:CE	13:T9:1001:CYC:CHB	2.78	0.62
7:d9:115:MET:CE	13:d9:1001:CYC:CHB	2.78	0.62
7:q9:6:LYS:O	7:q9:10:ASN:HB2	2.00	0.62
7:u9:107:ILE:HG23	8:z9:75:THR:HG23	1.80	0.62
7:y9:6:LYS:O	7:y9:10:ASN:HB2	2.00	0.62
2:DA:34:ARG:HH11	13:IA:202:CYC:CBC	2.12	0.62
2:B1:85:CYS:SG	13:B1:1001:CYC:C2C	2.83	0.62
3:P1:40:ASP:CG	13:P1:202:CYC:HHB	2.24	0.62
5:A2:229:GLN:CA	7:X9:66:VAL:CG1	2.36	0.62
3:K2:108:ASP:HB2	3:K2:109:ARG:HD2	1.81	0.62
3:K2:144:ASN:CB	3:K2:158:ILE:CD1	2.77	0.62
3:X2:108:ASP:HB2	3:X2:109:ARG:HD2	1.81	0.62
6:A3:59:ILE:HG22	6:A3:64:ARG:HG3	1.82	0.62
6:A3:116:ARG:HH12	6:A3:118:ALA:HA	1.63	0.62
2:B3:68:THR:C	2:B3:77:ALA:HB2	2.25	0.62
2:H3:85:CYS:SG	13:H3:1001:CYC:HAC2	2.40	0.62
3:K3:108:ASP:HB2	3:K3:109:ARG:HD2	1.81	0.62
13:U4:1001:CYC:C4B	3:Z4:77:ASN:OD1	2.48	0.62
2:W4:34:ARG:HH11	2:W4:150:GLU:HB2	1.59	0.62
3:M5:149:ILE:HD12	3:M5:149:ILE:N	2.15	0.62
3:K6:121:LEU:HD23	13:K6:201:CYC:O1D	2.00	0.62
2:S6:31:ARG:O	2:S6:35:ALA:CB	2.48	0.62
3:G7:108:ASP:HB2	3:G7:109:ARG:HD2	1.81	0.62
8:I8:88:TYR:HH	10:19:569:VAL:HG22	1.64	0.62
8:I8:88:TYR:CE1	13:I8:1001:CYC:HBB3	2.35	0.62
8:f8:77:ARG:HH12	13:f8:1001:CYC:CGD	2.13	0.62
13:o8:1001:CYC:HBA1	10:09:986:PHE:CZ	2.34	0.62
8:q8:111:ASN:HD22	10:19:1032:PRO:CD	2.12	0.62
8:s8:88:TYR:CE1	13:s8:1001:CYC:HBB3	2.35	0.62
7:C9:115:MET:HE1	13:C9:1001:CYC:HHB	1.80	0.62
7:N9:6:LYS:O	7:N9:10:ASN:HB2	2.00	0.62
7:R9:6:LYS:O	7:R9:10:ASN:HB2	2.00	0.62
7:X9:6:LYS:O	7:X9:10:ASN:HB2	2.00	0.62
7:Z9:6:LYS:O	7:Z9:10:ASN:HB2	2.00	0.62
7:y9:115:MET:HE1	13:y9:1001:CYC:HHB	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:y9:115:MET:CE	13:y9:1001:CYC:CHB	2.78	0.62
13:AA:301:CYC:HBD1	3:CA:121:LEU:HD23	1.79	0.62
3:CA:75:TYR:OH	2:DA:94:ARG:NH1	2.32	0.62
1:A1:198:PHE:HD1	7:c8:82:LEU:HB2	1.65	0.62
1:A1:212:PHE:HD1	7:l8:66:VAL:CA	2.12	0.62
2:B1:53:ILE:HD12	8:d8:22:THR:CG2	2.29	0.62
2:H1:34:ARG:NH1	2:H1:150:GLU:CB	2.58	0.62
2:J1:146:GLN:OE1	2:J1:146:GLN:N	2.20	0.62
3:M1:76:THR:CG2	3:M1:79:ARG:NE	2.62	0.62
4:N1:155:GLU:O	4:N1:157:GLN:OE1	2.17	0.62
13:B2:1001:CYC:CGD	3:G2:58:ARG:NH1	2.56	0.62
2:D2:26:GLN:OE1	2:H2:31:ARG:CG	2.45	0.62
2:H2:85:CYS:SG	13:H2:1001:CYC:HAC2	2.40	0.62
3:T2:76:THR:HG22	3:T2:79:ARG:NE	2.13	0.62
3:T2:108:ASP:HB2	3:T2:109:ARG:HD2	1.81	0.62
2:W2:29:ARG:HB2	13:W2:203:CYC:OC	1.99	0.62
6:A3:111:LYS:O	6:A3:115:GLY:HA2	2.00	0.62
3:E3:156:GLN:O	3:E3:160:GLU:HG2	1.99	0.62
3:G3:41:VAL:HG22	13:G3:202:CYC:HBC3	1.81	0.62
3:G3:44:ARG:HH12	3:G3:145:ASP:CA	2.11	0.62
3:K3:121:LEU:HD23	13:K3:201:CYC:O2D	1.96	0.62
2:D4:143:LEU:HD23	2:D4:148:ALA:HA	1.81	0.62
3:M4:65:PRO:O	3:M4:68:ILE:HG23	2.00	0.62
2:O4:29:ARG:HH21	13:P4:202:CYC:C1C	2.13	0.62
5:A6:92:GLU:HB3	2:J6:16:GLN:HE21	1.64	0.62
2:H6:29:ARG:NH1	13:I6:202:CYC:CMD	2.58	0.62
3:K6:34:GLU:OE2	3:K6:157:LEU:HD21	2.00	0.62
3:P6:38:ARG:NH2	3:P6:98:ILE:O	2.32	0.62
3:Z6:83:CYS:HB3	13:Z6:202:CYC:CHD	2.30	0.62
2:L7:94:ARG:NH2	3:M7:17:GLY:HA2	2.14	0.62
8:K8:88:TYR:CE1	13:K8:1001:CYC:HBB3	2.35	0.62
8:R8:119:SER:O	9:U8:50:LYS:NZ	2.33	0.62
7:N9:115:MET:CE	13:N9:1001:CYC:CHB	2.78	0.62
7:R9:115:MET:HE1	13:R9:1001:CYC:HHB	1.80	0.62
7:f9:6:LYS:O	7:f9:10:ASN:HB2	2.00	0.62
7:o9:115:MET:HE1	13:o9:1001:CYC:HHB	1.80	0.62
7:q9:115:MET:CE	13:q9:1001:CYC:CHB	2.78	0.62
7:w9:6:LYS:O	7:w9:10:ASN:HB2	2.00	0.62
4:NA:91:PHE:CE1	13:NA:301:CYC:CAB	2.60	0.62
3:G1:79:ARG:CA	13:G1:202:CYC:HMD1	2.29	0.61
2:D2:27:SER:HA	2:H2:27:SER:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G2:44:ARG:HH12	3:G2:145:ASP:HB2	0.79	0.61
3:G2:108:ASP:HB2	3:G2:109:ARG:HD2	1.81	0.61
3:G2:154:CYS:HB3	13:G2:201:CYC:CAC	2.26	0.61
3:M2:108:ASP:HB2	3:M2:109:ARG:HD2	1.81	0.61
13:N2:302:CYC:OB	3:T2:74:ALA:HB2	2.00	0.61
2:Q2:31:ARG:HG2	2:U2:26:GLN:OE1	1.99	0.61
6:A3:116:ARG:HB2	6:A3:116:ARG:NH2	2.10	0.61
2:O4:85:CYS:CA	13:O4:1001:CYC:CAC	2.54	0.61
13:C5:201:CYC:O2A	2:J5:146:GLN:OE1	2.18	0.61
2:D6:27:SER:HA	2:H6:27:SER:HA	1.82	0.61
2:L6:100:LEU:HD22	2:L6:150:GLU:OE2	1.98	0.61
2:W6:29:ARG:CZ	13:X6:202:CYC:HMD2	2.29	0.61
3:Z6:38:ARG:HG2	3:Z6:157:LEU:CD2	2.29	0.61
2:H7:85:CYS:SG	13:H7:1001:CYC:HAC2	2.40	0.61
3:K7:34:GLU:OE2	3:K7:157:LEU:HD21	2.00	0.61
8:B8:88:TYR:CE1	13:B8:1001:CYC:HBB3	2.35	0.61
7:J8:110:ILE:HD11	10:19:546:GLN:NE2	2.14	0.61
8:h8:88:TYR:CE1	13:h8:1001:CYC:HBB3	2.35	0.61
7:C9:115:MET:CE	13:C9:1001:CYC:CHB	2.78	0.61
7:G9:115:MET:CE	13:G9:1001:CYC:CHB	2.78	0.61
7:T9:6:LYS:O	7:T9:10:ASN:HB2	2.00	0.61
5:AA:64:PHE:CZ	2:JA:18:ARG:NH1	2.66	0.61
1:A1:212:PHE:HB3	7:l8:67:SER:HA	1.82	0.61
2:D1:85:CYS:CB	13:D1:1001:CYC:HAC2	2.29	0.61
2:S1:141:HIS:CE1	2:S1:143:LEU:HB3	2.34	0.61
2:Y1:143:LEU:HD23	2:Y1:148:ALA:HA	1.81	0.61
5:A2:60:GLU:CA	5:A2:62:LEU:HD13	2.29	0.61
3:I2:115:ARG:HD3	4:N2:9:ARG:NH1	2.15	0.61
3:P2:37:LYS:CD	3:P2:154:CYS:SG	2.87	0.61
3:T2:152:GLY:CA	13:T2:201:CYC:CMD	2.74	0.61
3:E3:108:ASP:HB2	3:E3:109:ARG:HD2	1.81	0.61
1:A4:198:PHE:CZ	7:V8:83:ARG:HA	2.35	0.61
3:M4:76:THR:CG2	3:M4:79:ARG:NE	2.62	0.61
3:I5:149:ILE:N	3:I5:149:ILE:HD13	2.15	0.61
5:A6:56:PHE:HB3	5:A6:60:GLU:HB2	1.81	0.61
13:B6:1001:CYC:CGD	3:G6:58:ARG:NH1	2.55	0.61
3:G6:44:ARG:HH12	3:G6:145:ASP:CA	2.11	0.61
3:Z6:154:CYS:SG	13:Z6:201:CYC:CMB	2.88	0.61
3:G7:154:CYS:SG	13:G7:202:CYC:CBC	2.82	0.61
7:J8:69:GLY:C	7:X9:64:ASP:OD1	2.43	0.61
7:J8:110:ILE:HD11	10:19:546:GLN:HE22	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:L8:113:ARG:NH2	7:b9:113:ARG:HH22	1.96	0.61
7:O8:151:SER:OG	7:u9:20:PRO:HB3	2.01	0.61
8:o8:92:TYR:OH	8:o8:108:ARG:HG2	2.00	0.61
10:09:527:THR:HG22	10:09:527:THR:O	1.99	0.61
10:19:445:ARG:NH2	8:e9:119:SER:O	2.33	0.61
10:19:1098:PRO:HG2	10:19:1101:ASN:HD22	1.65	0.61
7:d9:6:LYS:O	7:d9:10:ASN:HB2	2.00	0.61
3:G1:108:ASP:OD1	3:G1:108:ASP:N	2.34	0.61
3:M1:40:ASP:OD2	13:M1:202:CYC:HHB	2.00	0.61
13:B2:1001:CYC:O2D	3:G2:58:ARG:NH2	2.33	0.61
3:C2:111:LEU:HD11	3:C2:168:ALA:HA	1.82	0.61
4:N2:230:VAL:HG23	4:N2:230:VAL:O	2.00	0.61
3:Z2:150:THR:OG1	13:Z2:201:CYC:HAA2	2.00	0.61
2:B3:68:THR:O	2:B3:77:ALA:HB1	2.00	0.61
2:L3:31:ARG:HH22	2:L3:35:ALA:HB1	1.65	0.61
3:G4:79:ARG:CA	13:G4:202:CYC:HMD1	2.29	0.61
2:H4:143:LEU:HD23	2:H4:148:ALA:HA	1.80	0.61
4:N4:155:GLU:O	4:N4:157:GLN:OE1	2.17	0.61
2:S4:146:GLN:OE1	2:S4:146:GLN:N	2.21	0.61
3:V4:83:CYS:SG	13:V4:202:CYC:CHB	2.89	0.61
5:A5:241:ILE:HD11	7:A9:78:THR:HG22	1.74	0.61
5:A6:248:PRO:O	8:B8:63:TYR:CD1	2.53	0.61
2:D6:31:ARG:HH21	2:D6:35:ALA:CA	2.11	0.61
3:G6:41:VAL:CG2	13:G6:201:CYC:HBC3	2.30	0.61
4:N6:230:VAL:HG23	4:N6:230:VAL:O	2.00	0.61
2:Q6:91:HIS:CB	13:Q6:201:CYC:CAB	2.71	0.61
2:U6:88:ASP:OD1	13:U6:202:CYC:CHB	2.48	0.61
3:Z6:43:ASN:CB	13:Z6:201:CYC:HBC3	2.29	0.61
2:B7:68:THR:C	2:B7:77:ALA:HB2	2.25	0.61
3:E7:108:ASP:HB2	3:E7:109:ARG:HD2	1.81	0.61
3:K7:144:ASN:CB	3:K7:158:ILE:CD1	2.77	0.61
7:J8:69:GLY:CA	7:X9:64:ASP:OD2	2.47	0.61
8:M8:88:TYR:CE1	13:M8:1001:CYC:HBB3	2.35	0.61
8:R8:88:TYR:CE1	13:R8:1001:CYC:HBB3	2.35	0.61
8:m8:68:ARG:NH1	10:09:937:TYR:OH	2.32	0.61
7:G9:83:ARG:HH12	13:G9:1001:CYC:CGA	2.09	0.61
7:T9:107:ILE:HD13	8:U9:14:ASP:CG	2.25	0.61
7:k9:86:ASP:OD1	8:l9:19:TYR:OH	2.18	0.61
7:k9:97:VAL:HG11	8:l9:28:LEU:HD13	1.82	0.61
7:k9:115:MET:CE	13:k9:1001:CYC:CHB	2.78	0.61
7:o9:6:LYS:O	7:o9:10:ASN:HB2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:106:VAL:HG11	1:A1:124:GLU:HA	1.83	0.61
5:A2:166:ARG:O	5:A2:166:ARG:HD2	1.99	0.61
2:B2:68:THR:C	2:B2:77:ALA:HB2	2.25	0.61
2:D2:31:ARG:HH21	2:D2:35:ALA:CA	2.11	0.61
2:Q2:54:ASP:OD1	2:Q2:54:ASP:N	2.34	0.61
2:U2:88:ASP:CG	13:U2:202:CYC:HHB	2.25	0.61
3:X2:58:ARG:NH2	2:Y2:73:PRO:HG2	2.15	0.61
3:Z2:82:ALA:HB3	13:Z2:202:CYC:HMD1	1.81	0.61
3:G3:71:GLY:C	2:FA:62:GLN:OE1	2.43	0.61
1:A4:125:ILE:O	1:A4:128:SER:OG	2.17	0.61
2:S4:141:HIS:CE1	2:S4:143:LEU:HB3	2.34	0.61
3:T4:82:ALA:HB1	13:T4:202:CYC:CAA	2.00	0.61
3:Z4:152:GLY:H	13:Z4:201:CYC:C4B	2.09	0.61
5:A5:92:GLU:HA	5:A5:95:TYR:HB3	1.81	0.61
5:A5:216:PRO:HG3	8:p9:63:TYR:CE1	2.36	0.61
3:C5:70:PRO:HB2	3:E5:17:GLY:HA3	1.82	0.61
5:A6:60:GLU:CA	5:A6:62:LEU:HD13	2.29	0.61
5:A6:191:GLN:CA	7:N9:75:GLN:NE2	2.57	0.61
5:A6:243:TYR:HE1	7:C8:52:LYS:HE3	1.65	0.61
2:B6:68:THR:C	2:B6:77:ALA:HB2	2.25	0.61
3:G6:108:ASP:HB2	3:G6:109:ARG:HD2	1.81	0.61
2:U6:88:ASP:CG	13:U6:202:CYC:HHB	2.25	0.61
3:X6:58:ARG:NH2	2:Y6:73:PRO:HG2	2.15	0.61
6:A7:133:SER:O	2:B7:17:GLY:CA	2.48	0.61
2:D7:31:ARG:HH21	2:D7:35:ALA:CA	2.11	0.61
3:I7:83:CYS:CB	13:I7:201:CYC:HAC1	2.23	0.61
8:K8:11:ASN:ND2	10:19:537:SER:H	1.98	0.61
7:L8:25:ARG:HG2	7:Z9:25:ARG:NE	2.14	0.61
7:S8:25:ARG:HD3	7:w9:25:ARG:NH1	2.15	0.61
8:W8:111:ASN:HD21	9:b8:57:ALA:HB1	1.66	0.61
7:j8:9:VAL:HG21	10:09:1029:THR:HG21	1.83	0.61
10:09:697:VAL:O	10:09:697:VAL:HG23	2.00	0.61
7:A9:6:LYS:O	7:A9:10:ASN:HB2	2.00	0.61
7:b9:115:MET:CE	13:b9:1001:CYC:CHB	2.78	0.61
7:w9:115:MET:CE	13:w9:1001:CYC:CHB	2.78	0.61
1:A1:61:LYS:HD2	1:A1:61:LYS:C	2.25	0.61
2:B2:31:ARG:NH1	2:B2:103:GLY:HA3	2.14	0.61
2:J2:54:ASP:OD1	2:J2:54:ASP:N	2.34	0.61
2:W2:54:ASP:N	2:W2:54:ASP:OD1	2.34	0.61
3:Z2:154:CYS:SG	13:Z2:201:CYC:CMB	2.88	0.61
3:K3:34:GLU:HG2	3:K3:34:GLU:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:194:ASP:C	7:V8:83:ARG:CD	2.72	0.61
1:A4:199:LEU:CD2	7:V8:75:GLN:O	2.48	0.61
2:B4:85:CYS:SG	13:B4:1001:CYC:HAC2	2.39	0.61
3:M4:40:ASP:OD2	13:M4:202:CYC:HHB	2.01	0.61
3:P4:40:ASP:CG	13:P4:202:CYC:HHB	2.24	0.61
2:W4:146:GLN:OE1	2:W4:146:GLN:N	2.21	0.61
3:X4:108:ASP:N	3:X4:108:ASP:OD1	2.34	0.61
5:A5:246:ALA:HB3	7:A9:79:ALA:CB	2.30	0.61
5:A6:202:TYR:OH	7:N9:48:GLU:HA	1.99	0.61
2:Q6:34:ARG:HD3	13:V6:201:CYC:C1C	2.30	0.61
2:Q6:54:ASP:OD1	2:Q6:54:ASP:N	2.34	0.61
2:Y6:54:ASP:OD1	2:Y6:54:ASP:N	2.34	0.61
6:A7:61:LYS:HD2	6:A7:61:LYS:C	2.24	0.61
6:A7:93:ARG:HG3	6:A7:136:LEU:CD1	2.30	0.61
2:B7:31:ARG:NH1	2:B7:103:GLY:HA3	2.14	0.61
8:R8:77:ARG:HH12	13:R8:1001:CYC:CGD	2.13	0.61
8:d8:88:TYR:CE2	10:09:997:THR:OG1	2.43	0.61
8:m8:88:TYR:CE1	13:09:1201:CYC:HBB3	2.35	0.61
8:o8:115:GLU:C	10:09:1114:LYS:CE	2.72	0.61
8:q8:88:TYR:CE1	13:q8:1001:CYC:HBB3	2.35	0.61
7:E9:6:LYS:O	7:E9:10:ASN:HB2	2.00	0.61
7:G9:6:LYS:O	7:G9:10:ASN:HB2	2.00	0.61
1:A1:129:ILE:HD11	3:C1:85:ARG:HH22	1.64	0.61
1:A1:193:GLY:O	7:c8:83:ARG:HD2	2.01	0.61
3:K1:108:ASP:OD1	3:K1:108:ASP:N	2.34	0.61
2:S1:146:GLN:H	2:S1:146:GLN:CD	2.07	0.61
3:V1:64:GLN:HE22	3:V1:127:SER:HA	1.64	0.61
2:D2:31:ARG:HH11	2:D2:103:GLY:CA	2.14	0.61
2:D3:54:ASP:OD1	2:D3:54:ASP:N	2.34	0.61
3:I3:108:ASP:HB2	3:I3:109:ARG:HD2	1.81	0.61
3:R4:77:ASN:OD1	13:S4:1001:CYC:NB	2.33	0.61
5:A5:220:ALA:HB2	7:q9:79:ALA:CB	2.31	0.61
4:N5:162:THR:HG21	13:T5:201:CYC:CAC	2.31	0.61
4:N5:230:VAL:HG23	4:N5:230:VAL:O	2.00	0.61
3:R5:68:ILE:HD13	13:S5:1001:CYC:O2A	2.00	0.61
2:F6:31:ARG:NH1	3:G6:6:PHE:CE2	2.69	0.61
3:K6:34:GLU:HG2	3:K6:34:GLU:O	2.00	0.61
13:N6:302:CYC:OB	3:T6:74:ALA:HB2	2.00	0.61
2:H7:54:ASP:OD1	2:H7:54:ASP:N	2.34	0.61
2:L7:34:ARG:HH21	2:L7:150:GLU:HB2	1.66	0.61
8:B8:84:ARG:NH1	10:09:572:ILE:CG1	2.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:m8:84:ARG:CZ	13:09:1201:CYC:O2A	2.46	0.61
10:09:431:ARG:HD3	10:09:435:GLN:HE21	1.65	0.61
7:K9:115:MET:CE	13:K9:1001:CYC:CHB	2.78	0.61
7:P9:115:MET:CE	13:P9:1001:CYC:CHB	2.78	0.61
12:V9:83:ARG:NH1	13:V9:201:CYC:O1A	2.32	0.61
5:AA:61:ILE:CD1	3:GA:85:ARG:HH12	2.13	0.61
4:NA:62:LEU:CD2	4:NA:72:PHE:HB2	2.30	0.61
3:XA:87:MET:CE	13:XA:201:CYC:HBC3	2.28	0.61
1:A1:95:LEU:HG	1:A1:176:ARG:NE	2.15	0.61
2:J1:20:LEU:HD13	3:K1:99:LEU:HD13	1.81	0.61
3:T1:39:LEU:HB3	13:T1:201:CYC:HBB3	1.83	0.61
3:T1:108:ASP:OD1	3:T1:108:ASP:N	2.34	0.61
3:G2:41:VAL:HG22	13:G2:201:CYC:HBC3	1.81	0.61
3:I2:83:CYS:CB	13:I2:201:CYC:HAC1	2.23	0.61
3:K2:38:ARG:HH11	3:K2:38:ARG:HG3	1.64	0.61
2:L2:54:ASP:OD1	2:L2:54:ASP:N	2.34	0.61
2:O2:123:PHE:CD2	13:O2:1001:CYC:HAA2	2.36	0.61
6:A3:52:GLN:HA	6:A3:52:GLN:HE21	1.66	0.61
3:C4:154:CYS:SG	13:C4:302:CYC:HAC2	2.39	0.61
3:X4:77:ASN:ND2	2:Y4:116:LEU:HA	2.16	0.61
3:G5:58:ARG:O	3:G5:62:GLU:HB2	2.00	0.61
4:N5:167:ARG:NH2	4:N5:193:GLU:O	2.34	0.61
2:O5:33:GLU:HB2	2:W5:29:ARG:HH21	1.63	0.61
2:Q5:31:ARG:CZ	2:Q5:103:GLY:HA3	2.28	0.61
5:A6:229:GLN:CA	7:I9:66:VAL:CG1	2.27	0.61
2:L6:54:ASP:OD1	2:L6:54:ASP:N	2.34	0.61
2:W6:54:ASP:OD1	2:W6:54:ASP:N	2.34	0.61
2:D7:27:SER:HA	2:H7:27:SER:HA	1.82	0.61
2:L7:31:ARG:HH22	2:L7:35:ALA:HB1	1.65	0.61
8:o8:78:ARG:NH2	10:09:1123:SER:HB2	2.15	0.61
10:09:986:PHE:CZ	10:09:1113:VAL:CG1	2.80	0.61
10:19:754:GLU:OE2	10:19:812:LYS:NZ	2.31	0.61
9:49:26:THR:HG21	13:D9:1001:CYC:CMA	2.27	0.61
7:P9:49:ARG:NH2	8:a9:55:GLU:OE2	2.34	0.61
7:k9:6:LYS:O	7:k9:10:ASN:HB2	2.00	0.61
7:s9:6:LYS:O	7:s9:10:ASN:HB2	2.00	0.61
13:CA:201:CYC:O2A	2:JA:146:GLN:OE1	2.18	0.61
3:MA:149:ILE:HD12	3:MA:149:ILE:N	2.15	0.61
4:NA:162:THR:HG21	13:TA:201:CYC:CAC	2.31	0.61
2:B1:85:CYS:CB	13:B1:1001:CYC:HAC2	2.31	0.61
3:T1:83:CYS:HB2	13:T1:202:CYC:CMA	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q2:34:ARG:HD3	13:V2:201:CYC:C1C	2.30	0.61
3:X2:58:ARG:CZ	2:Y2:73:PRO:CG	2.78	0.61
2:Y2:54:ASP:OD1	2:Y2:54:ASP:N	2.34	0.61
3:G3:82:ALA:HB1	13:G3:201:CYC:C3D	2.31	0.61
1:A4:95:LEU:HG	1:A4:176:ARG:NE	2.15	0.61
2:H4:87:ARG:NH2	3:M4:68:ILE:HD11	2.14	0.61
3:M4:92:ARG:NH1	4:N4:249:TYR:OH	2.34	0.61
5:A5:213:GLU:CD	8:r9:16:GLN:O	2.44	0.61
4:N5:184:GLU:O	4:N5:189:ARG:NH2	2.33	0.61
2:S5:34:ARG:NH1	13:Z5:202:CYC:H2C	2.16	0.61
3:M6:83:CYS:CB	13:N6:301:CYC:CAC	2.26	0.61
3:Z6:37:LYS:HB3	3:Z6:157:LEU:HD12	1.82	0.61
13:B7:1001:CYC:O2D	3:G7:58:ARG:NH2	2.33	0.61
4:N7:230:VAL:HG23	4:N7:230:VAL:O	2.00	0.61
8:D8:88:TYR:CE1	13:D8:1001:CYC:HBB3	2.35	0.61
8:M8:77:ARG:HH12	13:M8:1001:CYC:CGD	2.13	0.61
8:m8:84:ARG:NH1	10:09:1096:SER:OG	2.34	0.61
7:n8:16:ARG:CA	10:09:989:GLN:HE21	2.14	0.61
7:A9:115:MET:HE1	13:A9:1001:CYC:HHB	1.80	0.61
7:w9:59:PHE:CB	5:AA:228:ASN:ND2	2.34	0.61
3:C1:108:ASP:OD1	3:C1:108:ASP:N	2.34	0.61
13:Q1:202:CYC:H2C	3:R1:154:CYS:SG	2.41	0.61
2:U1:129:TRP:CD2	13:U1:1001:CYC:HMC3	2.36	0.61
3:V1:68:ILE:CD1	13:W1:1001:CYC:O1A	2.47	0.61
2:Y1:141:HIS:CE1	2:Y1:143:LEU:CB	2.83	0.61
2:B2:86:ALA:HB2	7:k9:60:GLN:CG	2.02	0.61
2:H2:54:ASP:N	2:H2:54:ASP:OD1	2.34	0.61
2:S2:91:HIS:CG	13:S2:1001:CYC:HBB3	2.36	0.61
2:D4:119:ILE:CD1	13:D4:1001:CYC:HAA1	2.29	0.61
2:W4:85:CYS:SG	13:W4:1001:CYC:H2C	2.41	0.61
4:N5:62:LEU:CD2	4:N5:72:PHE:HB2	2.30	0.61
2:H6:85:CYS:SG	13:H6:1001:CYC:HAC2	2.40	0.61
3:I6:115:ARG:HD3	4:N6:9:ARG:NH1	2.15	0.61
2:J6:54:ASP:N	2:J6:54:ASP:OD1	2.34	0.61
2:L6:31:ARG:HH22	2:L6:35:ALA:HB1	1.65	0.61
2:S6:123:PHE:CD2	13:S6:1001:CYC:HAA2	2.36	0.61
6:A7:111:LYS:O	6:A7:115:GLY:HA2	2.00	0.61
2:D7:31:ARG:HH11	2:D7:103:GLY:CA	2.14	0.61
2:L7:29:ARG:HH12	13:M7:201:CYC:HMD1	1.63	0.61
7:E9:115:MET:CE	13:E9:1001:CYC:CHB	2.78	0.61
7:s9:115:MET:CE	13:s9:1001:CYC:CHB	2.78	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AA:304:CYC:CMC	3:KA:89:ILE:CG1	2.76	0.61
1:A1:209:THR:HG22	7:c8:63:PRO:O	2.00	0.61
4:N1:63:ARG:CB	13:V1:202:CYC:CGD	2.79	0.61
2:Q1:146:GLN:OE1	2:Q1:146:GLN:N	2.21	0.61
5:A2:6:LEU:CD2	13:C2:201:CYC:HBA1	2.31	0.61
2:B2:86:ALA:HB3	7:k9:60:GLN:CB	2.30	0.61
4:N2:41:ARG:CG	4:N2:46:ASN:OD1	2.49	0.61
3:P2:34:GLU:HG2	3:P2:157:LEU:HD11	1.82	0.61
3:R2:75:TYR:OH	2:S2:94:ARG:NH1	2.33	0.61
6:A3:90:GLU:CG	2:J3:16:GLN:NE2	2.49	0.61
2:F3:54:ASP:OD1	2:F3:54:ASP:N	2.34	0.61
3:G3:154:CYS:SG	13:G3:202:CYC:CBC	2.82	0.61
2:L3:54:ASP:OD1	2:L3:54:ASP:N	2.34	0.61
1:A4:195:ILE:CG1	7:V8:80:THR:CG2	2.37	0.61
3:T4:158:ILE:HD11	13:T4:201:CYC:CBC	2.28	0.61
2:Y4:141:HIS:CE1	2:Y4:143:LEU:CB	2.83	0.61
5:A5:231:ASN:HD21	7:A9:67:SER:HB3	1.65	0.61
13:A5:302:CYC:O1D	3:E5:78:ARG:NH2	2.29	0.61
3:I5:145:ASP:O	13:I5:202:CYC:HBB1	2.01	0.61
5:A6:6:LEU:CD2	13:C6:201:CYC:HBA1	2.31	0.61
3:G6:82:ALA:HB1	13:G6:202:CYC:C3D	2.31	0.61
2:H6:54:ASP:OD1	2:H6:54:ASP:N	2.34	0.61
2:D7:31:ARG:HD3	2:D7:35:ALA:HB2	1.82	0.61
3:G7:82:ALA:HB1	13:G7:201:CYC:C3D	2.31	0.61
2:J7:28:ALA:CB	3:K7:39:LEU:HD21	2.31	0.61
8:B8:84:ARG:CZ	13:B8:1001:CYC:O2A	2.46	0.61
8:P8:88:TYR:CE1	13:P8:1001:CYC:HBB3	2.35	0.61
7:S8:25:ARG:HD3	7:w9:25:ARG:HD3	1.82	0.61
7:S8:25:ARG:CG	7:w9:25:ARG:HD3	2.30	0.61
8:m8:78:ARG:HH12	10:09:947:VAL:HG12	1.65	0.61
8:u8:119:SER:CB	10:19:1114:LYS:HB2	2.31	0.61
7:G9:81:CYS:SG	13:G9:1001:CYC:HAC2	2.41	0.61
7:I9:115:MET:CE	13:I9:1001:CYC:CHB	2.78	0.61
7:i9:81:CYS:SG	13:i9:1001:CYC:HAC2	2.41	0.61
7:i9:115:MET:CE	13:i9:1001:CYC:CHB	2.78	0.61
7:k9:81:CYS:SG	13:k9:1001:CYC:HAC2	2.41	0.61
3:IA:145:ASP:O	13:IA:202:CYC:HBB1	2.01	0.61
3:IA:149:ILE:N	3:IA:149:ILE:HD13	2.15	0.61
4:NA:230:VAL:HG23	4:NA:230:VAL:O	2.00	0.61
1:A1:168:ARG:NH2	1:A1:172:LEU:CD1	2.61	0.60
2:B1:146:GLN:OE1	2:B1:146:GLN:N	2.20	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:23:GLU:CD	3:C1:23:GLU:H	2.06	0.60
3:G1:83:CYS:HB2	13:G1:202:CYC:C3C	2.31	0.60
3:I1:36:ASN:ND2	13:I1:202:CYC:HAD1	2.16	0.60
2:J1:37:ALA:O	2:J1:147:ALA:CB	2.49	0.60
3:V1:83:CYS:SG	13:V1:202:CYC:CHB	2.89	0.60
2:F2:54:ASP:OD1	2:F2:54:ASP:N	2.34	0.60
3:G2:87:MET:HE2	13:G2:202:CYC:HBC1	1.83	0.60
3:K2:34:GLU:OE2	3:K2:157:LEU:HD21	2.00	0.60
3:K2:34:GLU:O	3:K2:34:GLU:HG2	2.00	0.60
2:S2:26:GLN:OE1	2:Y2:31:ARG:HG2	2.01	0.60
6:A3:15:GLN:HG2	6:A3:162:ARG:O	2.00	0.60
6:A3:93:ARG:HH12	6:A3:137:HIS:CD2	2.18	0.60
3:I3:83:CYS:CB	13:I3:201:CYC:HAC1	2.23	0.60
4:N3:230:VAL:HG23	4:N3:230:VAL:O	2.00	0.60
2:B4:22:ASN:HD21	2:J4:150:GLU:CD	2.09	0.60
3:C4:23:GLU:H	3:C4:23:GLU:CD	2.06	0.60
3:R4:108:ASP:OD1	3:R4:108:ASP:N	2.34	0.60
2:Y4:143:LEU:HD23	2:Y4:148:ALA:HA	1.81	0.60
5:A5:179:TYR:CZ	13:A5:303:CYC:CGD	2.81	0.60
3:P5:149:ILE:HD12	3:P5:149:ILE:N	2.14	0.60
3:K6:60:LEU:HD21	13:K6:201:CYC:HBB1	1.81	0.60
8:D8:140:SER:C	7:E9:49:ARG:HH12	2.09	0.60
7:S8:25:ARG:CD	7:w9:25:ARG:HD3	2.31	0.60
9:i8:16:ARG:HH11	10:09:1082:ARG:HH22	1.47	0.60
8:s8:84:ARG:HH11	10:19:1096:SER:HB3	1.65	0.60
7:X9:81:CYS:SG	13:X9:1001:CYC:HAC2	2.41	0.60
7:X9:115:MET:CE	13:X9:1001:CYC:CHB	2.78	0.60
7:Z9:81:CYS:SG	13:Z9:1001:CYC:HAC2	2.41	0.60
8:t9:129:GLN:HE22	5:AA:212:ARG:CZ	2.14	0.60
7:u9:6:LYS:O	7:u9:10:ASN:HB2	2.00	0.60
7:y9:81:CYS:SG	13:y9:1001:CYC:HAC2	2.41	0.60
4:NA:184:GLU:O	4:NA:189:ARG:NH2	2.33	0.60
4:N1:68:THR:O	4:N1:70:ARG:N	2.34	0.60
3:P1:68:ILE:HD12	13:Q1:201:CYC:O1A	1.97	0.60
2:W1:85:CYS:SG	13:W1:1001:CYC:H2C	2.41	0.60
3:Z1:108:ASP:OD1	3:Z1:108:ASP:N	2.34	0.60
5:A2:56:PHE:HB3	5:A2:60:GLU:HB2	1.81	0.60
2:B2:68:THR:O	2:B2:77:ALA:HB1	2.00	0.60
3:Z2:37:LYS:HB3	3:Z2:157:LEU:HD12	1.82	0.60
2:H3:31:ARG:NH2	2:H3:35:ALA:CB	2.58	0.60
1:A4:84:ARG:HD3	4:N4:230:VAL:HG11	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:164:ARG:O	1:A4:164:ARG:HG3	1.99	0.60
2:B4:85:CYS:CB	13:B4:1001:CYC:HAC2	2.31	0.60
2:J4:37:ALA:O	2:J4:147:ALA:CB	2.49	0.60
3:K4:110:CYS:HA	13:K4:201:CYC:HBC1	1.81	0.60
3:T4:39:LEU:HB3	13:T4:201:CYC:HBB3	1.83	0.60
5:A5:14:ASN:HA	13:A5:302:CYC:HMA3	1.82	0.60
5:A5:17:VAL:CG1	3:E5:85:ARG:HD3	2.31	0.60
5:A5:70:LEU:O	5:A5:74:VAL:HG23	2.01	0.60
3:V5:89:ILE:CG2	13:V5:201:CYC:HBC3	2.31	0.60
2:D6:81:GLY:HA2	13:D6:1001:CYC:HMD1	1.82	0.60
2:J6:28:ALA:CB	3:K6:39:LEU:HD21	2.31	0.60
3:P6:37:LYS:CB	3:P6:154:CYS:SG	2.85	0.60
3:R6:75:TYR:OH	2:S6:94:ARG:NH1	2.33	0.60
3:R6:86:ASP:HB2	13:R6:1001:CYC:HMB1	1.83	0.60
2:S6:26:GLN:OE1	2:Y6:31:ARG:HG2	2.01	0.60
6:A7:15:GLN:HG2	6:A7:162:ARG:O	2.01	0.60
2:F7:54:ASP:N	2:F7:54:ASP:OD1	2.34	0.60
8:K8:84:ARG:CZ	13:K8:1001:CYC:O2A	2.46	0.60
8:s8:78:ARG:NH1	10:19:947:VAL:CA	2.64	0.60
8:J9:78:ARG:NH2	11:Q9:168:ASP:OD2	2.34	0.60
4:NA:167:ARG:NH2	4:NA:193:GLU:O	2.34	0.60
1:A1:60:LEU:H	1:A1:60:LEU:CD1	2.14	0.60
2:L2:88:ASP:OD2	13:L2:201:CYC:NA	2.35	0.60
2:U2:29:ARG:CG	13:V2:201:CYC:OC	2.50	0.60
3:Z2:79:ARG:O	13:Z2:202:CYC:HMD1	2.02	0.60
2:B3:54:ASP:OD1	2:B3:54:ASP:N	2.34	0.60
13:A5:304:CYC:CBB	3:K5:60:LEU:HD21	2.31	0.60
2:F5:63:LYS:HA	3:G7:66:GLN:HB2	1.82	0.60
3:K5:38:ARG:HD3	3:K5:157:LEU:HD22	1.84	0.60
2:L5:31:ARG:HH11	2:L5:103:GLY:CA	2.12	0.60
3:V5:38:ARG:HD3	3:V5:157:LEU:HD22	1.84	0.60
3:E6:108:ASP:HB2	3:E6:109:ARG:HD2	1.81	0.60
2:O6:123:PHE:CD2	13:O6:1001:CYC:HAA2	2.36	0.60
3:R6:121:LEU:HD13	13:R6:1001:CYC:CHA	2.31	0.60
2:S6:123:PHE:CE2	13:S6:1001:CYC:HAA2	2.37	0.60
2:U6:54:ASP:OD1	2:U6:54:ASP:N	2.34	0.60
6:A7:73:ARG:HG3	6:A7:73:ARG:NH1	2.07	0.60
7:O8:15:ALA:HB3	10:09:763:GLN:HB2	1.83	0.60
9:U8:36:ASN:HD22	10:09:842:ASN:CG	2.01	0.60
8:u8:77:ARG:HH12	13:19:1201:CYC:CGD	2.13	0.60
7:T9:81:CYS:SG	13:T9:1001:CYC:HAC2	2.41	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:t9:63:TYR:CB	5:AA:205:LYS:HZ2	1.74	0.60
5:AA:38:VAL:C	5:AA:40:SER:H	2.09	0.60
2:FA:34:ARG:HH21	13:MA:1003:CYC:HBC2	1.66	0.60
3:KA:38:ARG:HD3	3:KA:157:LEU:HD22	1.84	0.60
3:XA:58:ARG:O	3:XA:62:GLU:HB2	2.01	0.60
2:B1:22:ASN:HD21	2:J1:150:GLU:CD	2.09	0.60
3:I1:108:ASP:N	3:I1:108:ASP:OD1	2.34	0.60
2:O1:29:ARG:HH21	13:P1:202:CYC:C1C	2.13	0.60
13:Q1:202:CYC:CBC	3:R1:154:CYS:SG	2.90	0.60
5:A2:226:VAL:HG21	7:X9:59:PHE:CD2	2.36	0.60
3:G2:41:VAL:CG2	13:G2:201:CYC:HBC3	2.30	0.60
2:S2:123:PHE:CD2	13:S2:1001:CYC:HAA2	2.36	0.60
3:V2:128:VAL:HG22	13:V2:202:CYC:CMB	2.28	0.60
6:A3:83:ILE:CD1	6:A3:159:PRO:HD3	2.32	0.60
2:B3:31:ARG:NH1	2:B3:103:GLY:HA3	2.14	0.60
3:C3:111:LEU:HD11	3:C3:168:ALA:HA	1.82	0.60
2:J3:123:PHE:CE2	13:J3:1001:CYC:HAA1	2.37	0.60
2:L3:88:ASP:OD2	13:L3:201:CYC:NA	2.35	0.60
2:B4:85:CYS:SG	13:B4:1001:CYC:C2C	2.83	0.60
3:C4:108:ASP:OD1	3:C4:108:ASP:N	2.34	0.60
2:L4:51:ARG:NH2	3:C7:148:GLY:O	2.31	0.60
4:N4:156:THR:O	4:N4:157:GLN:O	2.19	0.60
3:T4:83:CYS:HB2	13:T4:202:CYC:CMA	2.31	0.60
3:T4:128:VAL:HG22	13:T4:202:CYC:HMB1	1.74	0.60
3:V4:108:ASP:OD1	3:V4:108:ASP:N	2.34	0.60
2:W4:85:CYS:SG	13:W4:1001:CYC:HAC2	2.42	0.60
5:A5:61:ILE:CD1	3:G5:85:ARG:HH12	2.13	0.60
2:Q5:34:ARG:HH11	2:Q5:34:ARG:CG	2.11	0.60
5:A6:202:TYR:CZ	7:N9:48:GLU:CB	2.85	0.60
3:G6:87:MET:HE2	13:G6:202:CYC:HBC1	1.83	0.60
2:S6:54:ASP:OD1	2:S6:54:ASP:N	2.34	0.60
3:Z6:38:ARG:NH2	3:Z6:101:GLY:CA	2.65	0.60
3:Z6:150:THR:OG1	13:Z6:201:CYC:HAA2	2.00	0.60
3:C7:70:PRO:HB3	3:E7:17:GLY:HA3	1.82	0.60
2:D7:54:ASP:OD1	2:D7:54:ASP:N	2.34	0.60
3:G7:87:MET:HE2	13:G7:201:CYC:HBC1	1.83	0.60
3:K7:38:ARG:HH11	3:K7:38:ARG:HG3	1.64	0.60
9:U8:39:ARG:HB3	10:09:846:ASN:OD1	2.01	0.60
8:k8:11:ASN:HD21	10:09:1121:SER:HA	1.66	0.60
10:09:18:GLN:OE1	10:09:269:ARG:CZ	2.48	0.60
10:09:19:THR:OG1	10:09:22:VAL:CG1	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A9:100:ASP:OD1	7:A9:102:THR:OG1	2.20	0.60
7:b9:81:CYS:SG	13:b9:1001:CYC:HAC2	2.41	0.60
7:y9:100:ASP:OD1	7:y9:102:THR:OG1	2.20	0.60
3:XA:83:CYS:CB	13:XA:201:CYC:HAC2	2.31	0.60
2:B1:18:ARG:NH1	2:J1:157:TYR:OH	2.35	0.60
3:I1:144:ASN:O	13:I1:202:CYC:HBB1	2.01	0.60
3:R1:108:ASP:OD1	3:R1:108:ASP:N	2.34	0.60
3:V1:83:CYS:HB2	13:V1:202:CYC:HMA3	1.83	0.60
5:A2:230:GLY:N	7:X9:66:VAL:HB	2.16	0.60
5:A2:241:ILE:HG21	7:J8:82:LEU:HD12	1.83	0.60
2:B2:123:PHE:CE2	13:B2:1001:CYC:HAA2	2.23	0.60
3:C2:83:CYS:CB	13:C2:201:CYC:CAC	2.62	0.60
2:O2:54:ASP:N	2:O2:54:ASP:OD1	2.34	0.60
3:P2:38:ARG:NH2	3:P2:101:GLY:HA2	2.17	0.60
2:U2:54:ASP:OD1	2:U2:54:ASP:N	2.34	0.60
3:X2:73:ASN:OD1	13:X2:201:CYC:HBD2	2.02	0.60
6:A3:93:ARG:HG3	6:A3:136:LEU:CD1	2.30	0.60
3:I3:40:ASP:OD1	3:I3:149:ILE:HD13	2.01	0.60
4:N4:63:ARG:CB	13:V4:202:CYC:CGD	2.79	0.60
13:Q4:202:CYC:CBC	3:R4:154:CYS:SG	2.90	0.60
5:A5:239:PHE:CE2	7:A9:52:LYS:C	2.76	0.60
3:T5:154:CYS:SG	13:T5:202:CYC:C1C	2.87	0.60
2:F6:54:ASP:N	2:F6:54:ASP:OD1	2.34	0.60
2:L6:34:ARG:HH21	2:L6:150:GLU:HB2	1.66	0.60
3:X6:58:ARG:CZ	2:Y6:73:PRO:CG	2.78	0.60
3:E7:83:CYS:HB3	13:E7:201:CYC:C4C	2.32	0.60
8:B8:77:ARG:HH12	13:B8:1001:CYC:CGD	2.13	0.60
8:f8:88:TYR:CZ	9:i8:21:ARG:HA	2.37	0.60
8:k8:84:ARG:HH12	10:09:1059:ASN:HD22	1.49	0.60
8:u8:88:TYR:CE1	13:19:1201:CYC:HBB3	2.35	0.60
7:d9:100:ASP:OD1	7:d9:102:THR:OG1	2.20	0.60
3:TA:154:CYS:SG	13:TA:202:CYC:C1C	2.87	0.60
2:YA:29:ARG:HG2	13:ZA:202:CYC:OC	2.02	0.60
4:N1:156:THR:O	4:N1:157:GLN:O	2.19	0.60
3:E2:34:GLU:HG2	3:E2:34:GLU:O	2.02	0.60
3:I2:40:ASP:OD1	3:I2:149:ILE:HD13	2.01	0.60
3:R2:86:ASP:HB2	13:R2:1001:CYC:HMB1	1.83	0.60
2:F3:31:ARG:NH1	3:G3:6:PHE:CE2	2.69	0.60
2:F3:74:GLN:OE1	2:F3:74:GLN:N	2.29	0.60
3:G3:66:GLN:HB2	2:FA:62:GLN:C	2.26	0.60
3:E4:108:ASP:N	3:E4:108:ASP:OD1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I4:36:ASN:ND2	13:I4:202:CYC:HAD1	2.16	0.60
3:C5:155:SER:HB2	7:u9:38:ARG:HH12	1.67	0.60
3:X5:39:LEU:HD23	13:X5:202:CYC:CMC	2.19	0.60
2:D6:31:ARG:HH11	2:D6:103:GLY:CA	2.14	0.60
2:F6:74:GLN:OE1	2:F6:74:GLN:N	2.29	0.60
3:G6:41:VAL:HG22	13:G6:201:CYC:HBC3	1.81	0.60
3:P6:83:CYS:SG	13:P6:201:CYC:CAC	2.89	0.60
2:S6:91:HIS:CG	13:S6:1001:CYC:HBB3	2.36	0.60
3:T6:41:VAL:O	3:T6:45:ILE:HG12	2.02	0.60
3:K7:34:GLU:HG2	3:K7:34:GLU:O	2.00	0.60
2:L7:54:ASP:OD1	2:L7:54:ASP:N	2.34	0.60
9:G8:31:LEU:N	10:09:578:GLU:O	2.30	0.60
8:P8:84:ARG:CZ	13:P8:1001:CYC:O2A	2.46	0.60
8:o8:115:GLU:C	10:09:1114:LYS:HE2	2.25	0.60
8:s8:84:ARG:NH1	10:19:1096:SER:HB3	2.16	0.60
8:s8:84:ARG:CZ	13:s8:1001:CYC:O2A	2.46	0.60
10:19:986:PHE:HE1	13:19:1201:CYC:HBA1	1.59	0.60
7:C9:83:ARG:HH12	13:C9:1001:CYC:CGA	2.09	0.60
7:I9:81:CYS:SG	13:I9:1001:CYC:HAC2	2.41	0.60
7:R9:100:ASP:OD1	7:R9:102:THR:OG1	2.20	0.60
7:d9:81:CYS:SG	13:d9:1001:CYC:HAC2	2.41	0.60
7:s9:81:CYS:SG	13:s9:1001:CYC:HAC2	2.41	0.60
3:CA:70:PRO:HB2	3:EA:17:GLY:HA3	1.83	0.60
3:GA:154:CYS:SG	13:GA:1002:CYC:CBC	2.89	0.60
3:IA:152:GLY:HA3	13:IA:202:CYC:HMA3	1.82	0.60
3:RA:68:ILE:HD13	13:SA:1001:CYC:O2A	2.00	0.60
2:SA:34:ARG:NH1	13:ZA:202:CYC:H2C	2.16	0.60
3:TA:60:LEU:CD2	13:TA:201:CYC:HAB2	2.25	0.60
3:E1:108:ASP:N	3:E1:108:ASP:OD1	2.34	0.60
3:M1:92:ARG:NH1	4:N1:249:TYR:OH	2.34	0.60
2:O1:138:LYS:O	2:O1:141:HIS:CD2	2.55	0.60
2:F2:31:ARG:NH1	3:G2:6:PHE:CE2	2.69	0.60
2:J2:28:ALA:CB	3:K2:39:LEU:HD21	2.31	0.60
2:L2:34:ARG:HH21	2:L2:150:GLU:HB2	1.66	0.60
3:R2:121:LEU:HD13	13:R2:1001:CYC:CHA	2.31	0.60
2:S2:54:ASP:N	2:S2:54:ASP:OD1	2.34	0.60
3:T2:41:VAL:O	3:T2:45:ILE:HG12	2.02	0.60
2:U2:123:PHE:CE2	13:U2:202:CYC:HAA1	2.37	0.60
2:B3:103:GLY:O	2:J3:26:GLN:NE2	2.34	0.60
3:K3:34:GLU:OE2	3:K3:157:LEU:HD21	2.00	0.60
3:M3:41:VAL:O	3:M3:45:ILE:HG12	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:119:TYR:N	1:A4:123:GLU:OE2	2.34	0.60
3:I4:40:ASP:OD2	13:I4:202:CYC:CHB	2.50	0.60
3:Z4:40:ASP:OD2	13:Z4:201:CYC:CHB	2.50	0.60
3:P5:38:ARG:HD3	3:P5:157:LEU:HD22	1.84	0.60
3:X5:154:CYS:SG	13:X5:202:CYC:C3B	2.90	0.60
5:A6:228:ASN:CB	7:I9:59:PHE:HB2	2.32	0.60
4:N6:158:VAL:O	4:N6:158:VAL:HG13	2.00	0.60
2:U6:29:ARG:CG	13:V6:201:CYC:OC	2.50	0.60
8:I8:77:ARG:HH12	13:I8:1001:CYC:CGD	2.13	0.60
8:s8:77:ARG:HH12	13:s8:1001:CYC:CGD	2.13	0.60
7:t8:14:GLU:HG2	10:19:973:LEU:CD1	2.32	0.60
10:19:1009:SER:OG	10:19:1086:GLU:O	2.19	0.60
7:R9:83:ARG:HH12	13:R9:1001:CYC:CGA	2.09	0.60
7:o9:81:CYS:SG	13:o9:1001:CYC:HAC2	2.41	0.60
7:s9:100:ASP:OD1	7:s9:102:THR:OG1	2.20	0.60
7:u9:81:CYS:SG	13:u9:1001:CYC:HAC2	2.41	0.60
7:w9:83:ARG:HH12	13:w9:1001:CYC:CGA	2.09	0.60
5:AA:64:PHE:HZ	2:JA:18:ARG:HD2	1.53	0.60
1:A1:84:ARG:NH2	1:A1:145:ASP:OD1	2.35	0.60
1:A1:212:PHE:CD1	7:l8:66:VAL:C	2.71	0.60
2:D1:14:ASP:OD2	3:E1:109:ARG:NH1	2.35	0.60
3:P1:108:ASP:OD1	3:P1:108:ASP:N	2.34	0.60
3:C2:85:ARG:NH2	13:C2:201:CYC:O2A	2.35	0.60
2:J2:123:PHE:CE2	13:J2:1001:CYC:HAA1	2.37	0.60
3:K2:121:LEU:HD23	13:K2:201:CYC:O1D	2.00	0.60
3:Z2:150:THR:O	13:Z2:201:CYC:NB	2.34	0.60
3:Z2:154:CYS:SG	13:Z2:201:CYC:C2B	2.90	0.60
3:I3:83:CYS:HB3	13:I3:201:CYC:CAC	2.23	0.60
1:A4:54:PHE:O	1:A4:55:SER:HB2	2.02	0.60
1:A4:60:LEU:H	1:A4:60:LEU:CD1	2.14	0.60
3:G4:69:ALA:CB	8:W8:16:GLN:NE2	2.47	0.60
2:J4:119:ILE:HD13	13:J4:1001:CYC:CMA	2.28	0.60
4:N4:68:THR:O	4:N4:70:ARG:N	2.34	0.60
13:Q4:202:CYC:H2C	3:R4:154:CYS:SG	2.41	0.60
3:I5:58:ARG:O	3:I5:62:GLU:HB2	2.02	0.60
3:R5:152:GLY:HA3	13:R5:201:CYC:CMD	2.32	0.60
3:X5:83:CYS:CB	13:X5:201:CYC:HAC2	2.31	0.60
3:X5:87:MET:CE	13:X5:201:CYC:HBC3	2.27	0.60
2:L6:88:ASP:OD2	13:L6:201:CYC:NA	2.35	0.60
3:M6:108:ASP:HB2	3:M6:109:ARG:HD2	1.81	0.60
3:Z6:154:CYS:SG	13:Z6:201:CYC:C2B	2.90	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:59:ILE:HG22	6:A7:64:ARG:HG3	1.82	0.60
2:J7:85:CYS:HA	13:J7:1001:CYC:CAC	2.32	0.60
5:AA:17:VAL:CG1	3:EA:85:ARG:HD3	2.31	0.60
3:CA:58:ARG:O	3:CA:62:GLU:HB2	2.02	0.60
2:FA:14:ASP:OD1	3:GA:92:ARG:NH1	2.32	0.60
3:IA:44:ARG:HH12	3:IA:145:ASP:CG	2.03	0.60
3:PA:38:ARG:HD3	3:PA:157:LEU:HD22	1.84	0.60
2:QA:34:ARG:HH11	2:QA:34:ARG:CG	2.11	0.60
3:XA:154:CYS:SG	13:XA:202:CYC:C3B	2.90	0.60
1:A1:199:LEU:CD2	7:c8:75:GLN:O	2.50	0.60
3:M1:108:ASP:N	3:M1:108:ASP:OD1	2.34	0.60
3:Z1:152:GLY:H	13:Z1:201:CYC:C4B	2.09	0.60
3:C2:58:ARG:CZ	2:D2:73:PRO:HB3	2.32	0.60
2:L2:29:ARG:HH12	13:M2:201:CYC:CMD	2.11	0.60
2:S2:123:PHE:CE2	13:S2:1001:CYC:HAA2	2.37	0.60
6:A3:125:ILE:CG2	3:C3:117:THR:HG22	2.32	0.60
2:D3:27:SER:HA	2:H3:27:SER:HA	1.82	0.60
2:J3:28:ALA:CB	3:K3:39:LEU:HD21	2.31	0.60
3:G4:108:ASP:OD1	3:G4:108:ASP:N	2.34	0.60
3:I4:108:ASP:OD1	3:I4:108:ASP:N	2.34	0.60
3:K4:123:THR:HG23	3:K4:124:PRO:HD2	1.84	0.60
3:T4:154:CYS:HG	13:T4:201:CYC:C2C	1.93	0.60
5:A5:166:ARG:NH2	5:A5:171:PRO:HD3	2.16	0.60
5:A5:229:GLN:HA	7:q9:66:VAL:HG12	1.84	0.60
3:E6:34:GLU:HG2	3:E6:34:GLU:O	2.02	0.60
4:N6:41:ARG:CG	4:N6:46:ASN:OD1	2.49	0.60
2:O6:54:ASP:OD1	2:O6:54:ASP:N	2.34	0.60
3:Z6:79:ARG:O	13:Z6:202:CYC:HMD1	2.02	0.60
6:A7:52:GLN:HE21	6:A7:52:GLN:HA	1.66	0.60
6:A7:83:ILE:CD1	6:A7:159:PRO:HD3	2.32	0.60
6:A7:93:ARG:HH12	6:A7:137:HIS:CD2	2.18	0.60
3:E7:34:GLU:HG2	3:E7:34:GLU:O	2.02	0.60
8:I8:84:ARG:CZ	13:I8:1001:CYC:O2A	2.46	0.60
8:a8:109:VAL:CG1	13:b8:1001:CYC:CAB	2.73	0.60
8:k8:77:ARG:HH12	13:k8:1001:CYC:CGD	2.13	0.60
13:o8:1001:CYC:CMA	10:09:986:PHE:CE2	2.85	0.60
10:19:430:PHE:HZ	13:19:1205:CYC:HAA1	1.66	0.60
7:u9:100:ASP:OD1	7:u9:102:THR:OG1	2.20	0.60
5:AA:166:ARG:NH2	5:AA:171:PRO:HD3	2.16	0.60
2:B1:119:ILE:CD1	13:B1:1001:CYC:CMA	2.79	0.60
2:S1:119:ILE:HD13	13:S1:1001:CYC:HMA2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W1:85:CYS:SG	13:W1:1001:CYC:HAC2	2.42	0.60
2:D2:54:ASP:N	2:D2:54:ASP:OD1	2.34	0.60
2:F2:31:ARG:NH1	3:G2:6:PHE:CZ	2.70	0.60
2:O2:34:ARG:HH22	13:W2:203:CYC:CAC	2.06	0.60
2:Q2:91:HIS:ND1	13:Q2:201:CYC:CBB	2.63	0.60
2:F3:31:ARG:NH1	3:G3:6:PHE:CZ	2.70	0.60
3:K3:60:LEU:HD21	13:K3:201:CYC:HBB1	1.81	0.60
2:B4:18:ARG:NH1	2:J4:157:TYR:OH	2.35	0.60
3:P4:108:ASP:N	3:P4:108:ASP:OD1	2.34	0.60
3:T4:108:ASP:N	3:T4:108:ASP:OD1	2.34	0.60
2:H5:71:PRO:HG3	3:G7:63:GLU:HA	1.84	0.60
3:E6:83:CYS:HB3	13:E6:201:CYC:C4C	2.32	0.60
2:Q6:74:GLN:HA	13:Q6:201:CYC:HBD2	1.84	0.60
3:X6:73:ASN:OD1	13:X6:201:CYC:HBD2	2.02	0.60
3:Z6:87:MET:HE2	13:Z6:202:CYC:CBC	1.91	0.60
2:B7:103:GLY:O	2:J7:26:GLN:NE2	2.34	0.60
2:F7:2:VAL:N	3:G7:2:THR:HG1	2.00	0.60
3:G7:41:VAL:CG2	13:G7:202:CYC:CAC	2.80	0.60
3:K7:121:LEU:HD23	13:K7:201:CYC:O1D	2.00	0.60
8:h8:88:TYR:CD1	13:h8:1001:CYC:HBB3	2.37	0.60
7:C9:81:CYS:SG	13:C9:1001:CYC:HAC2	2.41	0.60
7:G9:49:ARG:NH2	8:r9:141:LEU:HD12	2.17	0.60
7:f9:81:CYS:SG	13:f9:1001:CYC:HAC2	2.41	0.60
7:q9:100:ASP:OD1	7:q9:102:THR:OG1	2.20	0.60
2:D1:91:HIS:HB2	13:D1:1001:CYC:CMB	2.32	0.59
2:S1:14:ASP:OD2	3:T1:109:ARG:NH1	2.35	0.59
3:T1:152:GLY:N	13:T1:201:CYC:HMD2	2.17	0.59
2:B2:33:GLU:N	2:B2:33:GLU:OE1	2.35	0.59
3:E4:128:VAL:HG23	13:E4:201:CYC:HMC2	1.84	0.59
13:H4:1001:CYC:C4B	3:M4:77:ASN:OD1	2.50	0.59
3:T4:152:GLY:N	13:T4:201:CYC:HMD2	2.17	0.59
3:E5:39:LEU:HD23	13:E5:201:CYC:HBB3	0.63	0.59
5:A6:59:HIS:ND1	3:G6:85:ARG:HB3	2.17	0.59
2:B6:103:GLY:O	2:J6:26:GLN:NE2	2.34	0.59
2:J6:123:PHE:CE2	13:J6:1001:CYC:HAA1	2.37	0.59
3:T6:38:ARG:CG	3:T6:157:LEU:CD2	2.79	0.59
6:A7:125:ILE:CG2	3:C7:117:THR:HG22	2.32	0.59
2:B7:33:GLU:N	2:B7:33:GLU:OE1	2.35	0.59
2:F7:31:ARG:NH1	3:G7:6:PHE:CE2	2.69	0.59
2:J7:123:PHE:CE2	13:J7:1001:CYC:HAA1	2.37	0.59
2:L7:88:ASP:OD2	13:L7:201:CYC:NA	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M7:34:GLU:HG2	3:M7:34:GLU:O	2.01	0.59
8:I8:88:TYR:CD1	13:I8:1001:CYC:HBB3	2.37	0.59
8:d8:77:ARG:HH12	13:d8:1001:CYC:CGD	2.13	0.59
8:f8:88:TYR:CD1	13:f8:1001:CYC:HBB3	2.37	0.59
8:k8:88:TYR:CD1	13:k8:1001:CYC:HBB3	2.37	0.59
8:k8:111:ASN:HD22	10:09:1032:PRO:CG	2.14	0.59
8:o8:16:GLN:HA	10:09:938:ASN:ND2	2.16	0.59
10:19:163:SER:O	8:h9:19:TYR:OH	2.20	0.59
7:P9:81:CYS:SG	13:P9:1001:CYC:HAC2	2.41	0.59
7:P9:100:ASP:OD1	7:P9:102:THR:OG1	2.20	0.59
7:k9:100:ASP:OD1	7:k9:102:THR:OG1	2.20	0.59
7:q9:81:CYS:SG	13:q9:1001:CYC:HAC2	2.41	0.59
5:AA:179:TYR:CZ	13:AA:303:CYC:CGD	2.81	0.59
2:S1:123:PHE:CD2	13:S1:1001:CYC:HAA2	2.36	0.59
3:Z1:83:CYS:HB2	13:Z1:202:CYC:CMD	2.32	0.59
5:A2:59:HIS:ND1	3:G2:85:ARG:HB3	2.17	0.59
3:G2:82:ALA:HB1	13:G2:202:CYC:C3D	2.31	0.59
2:S2:26:GLN:OE1	2:Y2:5:PRO:CG	2.40	0.59
2:H3:54:ASP:OD1	2:H3:54:ASP:N	2.34	0.59
2:S4:123:PHE:CD2	13:S4:1001:CYC:HAA2	2.36	0.59
3:Z4:83:CYS:HB2	13:Z4:202:CYC:CMD	2.32	0.59
5:A5:205:LYS:HD2	8:z9:63:TYR:HB2	1.80	0.59
3:G5:154:CYS:SG	13:G5:201:CYC:CBC	2.89	0.59
13:U5:1001:CYC:O2A	3:Z5:68:ILE:HD13	1.99	0.59
2:Q6:123:PHE:CE2	13:Q6:201:CYC:CAA	2.86	0.59
2:U6:123:PHE:CE2	13:U6:202:CYC:HAA1	2.37	0.59
3:G7:154:CYS:HB3	13:G7:202:CYC:CAC	2.26	0.59
13:G7:202:CYC:HAB2	2:L7:34:ARG:HH11	1.67	0.59
8:B8:88:TYR:CD1	13:B8:1001:CYC:HBB3	2.37	0.59
7:J8:102:THR:HG21	10:19:540:PHE:CE1	2.37	0.59
8:u8:88:TYR:CD1	13:19:1201:CYC:HBB3	2.37	0.59
7:C9:100:ASP:OD1	7:C9:102:THR:OG1	2.20	0.59
7:K9:81:CYS:SG	13:K9:1001:CYC:HAC2	2.41	0.59
7:N9:81:CYS:SG	13:N9:1001:CYC:HAC2	2.41	0.59
7:Z9:100:ASP:OD1	7:Z9:102:THR:OG1	2.20	0.59
7:w9:81:CYS:SG	13:w9:1001:CYC:HAC2	2.41	0.59
5:AA:131:ILE:HD13	5:AA:131:ILE:O	2.02	0.59
4:NA:88:TYR:HA	3:RA:109:ARG:HH22	1.67	0.59
3:TA:89:ILE:CG1	13:TA:201:CYC:CMC	2.78	0.59
3:XA:93:TYR:CE2	13:XA:201:CYC:CBB	2.51	0.59
3:E1:83:CYS:SG	13:E1:201:CYC:NC	2.64	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I1:150:THR:O	13:I1:202:CYC:NB	2.35	0.59
5:A2:191:GLN:C	7:d9:75:GLN:HG3	2.24	0.59
3:R2:154:CYS:CB	13:U2:201:CYC:HAC2	2.32	0.59
3:Z2:154:CYS:SG	13:Z2:201:CYC:C3B	2.91	0.59
2:J3:54:ASP:OD1	2:J3:54:ASP:N	2.34	0.59
2:L3:34:ARG:HH21	2:L3:150:GLU:HB2	1.66	0.59
3:I4:144:ASN:O	13:I4:202:CYC:HBB1	2.01	0.59
3:V4:83:CYS:HB2	13:V4:202:CYC:HMA3	1.83	0.59
3:R5:150:THR:OG1	13:R5:201:CYC:HAD1	2.02	0.59
3:C6:82:ALA:HB3	13:C6:201:CYC:CMD	2.33	0.59
3:T6:154:CYS:SG	13:T6:201:CYC:HAC2	2.42	0.59
3:Z6:150:THR:O	13:Z6:201:CYC:NB	2.34	0.59
6:A7:70:SER:HB2	13:K7:201:CYC:HMD2	1.84	0.59
13:A7:301:CYC:CAA	3:C7:121:LEU:HD11	2.26	0.59
3:E7:157:LEU:O	3:E7:161:VAL:CG2	2.33	0.59
8:D8:3:GLN:HE22	10:09:528:ILE:CD1	2.12	0.59
7:n8:15:ALA:O	10:09:989:GLN:CG	2.50	0.59
10:09:374:ILE:HD12	10:09:382:LEU:HD22	1.83	0.59
10:09:560:ASP:OD1	10:09:566:ARG:NH2	2.35	0.59
7:A9:81:CYS:SG	13:A9:1001:CYC:HAC2	2.41	0.59
7:R9:81:CYS:SG	13:R9:1001:CYC:HAC2	2.41	0.59
7:o9:38:ARG:NH1	3:CA:155:SER:HB2	2.16	0.59
2:OA:6:ILE:CG1	2:OA:31:ARG:HD2	2.22	0.59
2:D1:20:LEU:HD13	3:E1:99:LEU:HD13	1.84	0.59
3:I1:40:ASP:OD2	13:I1:202:CYC:CHB	2.50	0.59
3:G2:41:VAL:CG2	13:G2:201:CYC:CAC	2.80	0.59
3:I2:87:MET:CE	13:I2:201:CYC:HBC2	1.93	0.59
3:P2:34:GLU:HG2	3:P2:34:GLU:O	2.01	0.59
3:G3:66:GLN:HG3	2:FA:62:GLN:HB3	1.84	0.59
13:N3:301:CYC:HBA2	13:N3:301:CYC:CHA	2.24	0.59
1:A4:106:VAL:HG11	1:A4:124:GLU:HA	1.83	0.59
2:D4:14:ASP:OD2	3:E4:109:ARG:NH1	2.35	0.59
2:B5:34:ARG:HH12	2:B5:150:GLU:HB2	1.66	0.59
3:C5:39:LEU:O	13:C5:201:CYC:HMB2	2.02	0.59
5:A6:168:GLU:OE1	5:A6:168:GLU:HA	2.02	0.59
3:C6:38:ARG:HD2	3:C6:98:ILE:O	2.02	0.59
2:D6:54:ASP:OD1	2:D6:54:ASP:N	2.34	0.59
3:I6:40:ASP:OD1	3:I6:149:ILE:HD13	2.01	0.59
3:I6:87:MET:CE	13:I6:201:CYC:HBC2	1.93	0.59
4:N6:3:ILE:O	4:N6:3:ILE:HG13	2.01	0.59
3:Z6:40:ASP:CG	13:Z6:201:CYC:HD	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F7:31:ARG:NH1	3:G7:6:PHE:CZ	2.70	0.59
7:O8:15:ALA:HB2	10:09:765:GLU:N	2.17	0.59
9:i8:10:LEU:HG	9:i8:26:THR:O	2.01	0.59
8:k8:84:ARG:CZ	13:k8:1001:CYC:O2A	2.46	0.59
8:m8:84:ARG:NH1	10:09:1096:SER:HB3	2.01	0.59
8:q8:88:TYR:CD1	13:q8:1001:CYC:HBB3	2.37	0.59
13:q8:1001:CYC:CMA	10:19:1034:THR:HG21	2.29	0.59
10:09:180:ILE:O	10:09:184:ASN:ND2	2.35	0.59
10:09:252:GLY:HA2	7:P9:13:ALA:HB2	1.85	0.59
9:29:17:THR:HG22	8:U9:84:ARG:HH21	1.68	0.59
7:o9:100:ASP:OD1	7:o9:102:THR:OG1	2.20	0.59
13:AA:301:CYC:O2A	3:CA:85:ARG:CZ	2.50	0.59
3:XA:39:LEU:HD23	13:XA:202:CYC:CMC	2.19	0.59
2:B1:146:GLN:H	2:B1:146:GLN:CD	2.10	0.59
3:G1:79:ARG:O	3:G1:82:ALA:HB3	2.02	0.59
13:H1:1001:CYC:C4B	3:M1:77:ASN:OD1	2.50	0.59
5:A2:240:ASP:O	5:A2:241:ILE:C	2.45	0.59
3:E2:83:CYS:HB3	13:E2:201:CYC:C4C	2.32	0.59
3:T2:154:CYS:SG	13:T2:201:CYC:HAC2	2.42	0.59
13:W2:203:CYC:CBB	3:X2:144:ASN:HA	2.32	0.59
2:J3:85:CYS:HA	13:J3:1001:CYC:CAC	2.32	0.59
1:A4:190:TYR:CE2	3:C4:16:ARG:NE	2.71	0.59
3:K4:154:CYS:HG	13:K4:202:CYC:HAB1	1.66	0.59
3:I5:38:ARG:HD3	3:I5:157:LEU:HD22	1.84	0.59
3:I5:152:GLY:HA3	13:I5:202:CYC:HMA3	1.82	0.59
5:A6:19:SER:HB2	5:A6:165:LYS:HZ3	1.68	0.59
2:B6:54:ASP:OD1	2:B6:54:ASP:N	2.34	0.59
2:L6:29:ARG:HH12	13:M6:201:CYC:CMD	2.11	0.59
3:M6:34:GLU:HG2	3:M6:34:GLU:O	2.01	0.59
3:P6:43:ASN:HD21	13:W6:201:CYC:HBC1	1.65	0.59
3:X6:38:ARG:CD	3:X6:157:LEU:HD21	2.33	0.59
3:G7:41:VAL:HG21	13:G7:202:CYC:HBC1	1.85	0.59
2:H7:31:ARG:O	2:H7:35:ALA:N	2.34	0.59
7:A8:27:LYS:HG3	8:B8:39:VAL:HG11	1.82	0.59
7:C8:126:VAL:HG22	13:C8:1001:CYC:CBC	2.33	0.59
8:D8:88:TYR:CD1	13:D8:1001:CYC:HBB3	2.37	0.59
7:L8:25:ARG:HD2	7:Z9:25:ARG:NH2	2.17	0.59
8:Y8:109:VAL:CG1	13:Y8:1001:CYC:CAB	2.73	0.59
8:m8:69:PRO:CB	10:09:936:SER:OG	2.50	0.59
8:m8:88:TYR:CD1	13:09:1201:CYC:HBB3	2.37	0.59
7:n8:126:VAL:HG22	13:n8:1001:CYC:CBC	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:q8:84:ARG:CZ	13:q8:1001:CYC:O2A	2.46	0.59
10:09:1113:VAL:O	10:09:1113:VAL:HG13	2.01	0.59
5:AA:17:VAL:CG2	13:AA:302:CYC:CMA	2.79	0.59
5:AA:106:ARG:NH2	5:AA:176:THR:HG23	2.17	0.59
2:BA:34:ARG:HH12	2:BA:150:GLU:HB2	1.66	0.59
2:JA:31:ARG:HH11	2:JA:103:GLY:HA3	0.57	0.59
1:A1:50:TYR:CE1	1:A1:64:ARG:HG2	2.37	0.59
1:A1:68:LEU:HB3	1:A1:82:PHE:HE1	1.68	0.59
1:A1:104:ARG:NH2	1:A1:175:PRO:O	2.36	0.59
2:Q1:119:ILE:CD1	13:Q1:201:CYC:CMA	2.80	0.59
2:H2:31:ARG:NE	2:H2:103:GLY:HA3	2.15	0.59
3:M2:34:GLU:HG2	3:M2:34:GLU:O	2.01	0.59
3:M2:41:VAL:O	3:M2:45:ILE:HG12	2.02	0.59
2:Q2:123:PHE:CE2	13:Q2:201:CYC:CAA	2.86	0.59
6:A3:68:LEU:HB3	6:A3:82:PHE:CE2	2.37	0.59
2:B3:22:ASN:OD1	2:J3:34:ARG:NH1	2.36	0.59
3:C3:38:ARG:HD2	3:C3:98:ILE:O	2.02	0.59
3:C3:152:GLY:CA	13:C3:201:CYC:HMD1	2.17	0.59
3:G3:87:MET:HE2	13:G3:201:CYC:HBC1	1.83	0.59
1:A4:84:ARG:NH2	1:A4:145:ASP:OD1	2.35	0.59
2:B4:119:ILE:CD1	13:B4:1001:CYC:CMA	2.79	0.59
5:A5:239:PHE:CG	7:A9:52:LYS:HE2	2.31	0.59
2:D5:34:ARG:NE	2:D5:150:GLU:OE2	2.35	0.59
2:Y5:31:ARG:HH11	2:Y5:103:GLY:HA3	1.68	0.59
5:A6:190:VAL:C	7:N9:75:GLN:HE21	2.10	0.59
2:B6:22:ASN:OD1	2:J6:34:ARG:NH1	2.36	0.59
2:B6:33:GLU:N	2:B6:33:GLU:OE1	2.35	0.59
3:C6:85:ARG:CZ	13:C6:201:CYC:O2A	2.51	0.59
3:G6:41:VAL:CG2	13:G6:201:CYC:CAC	2.80	0.59
3:I6:156:GLN:HA	3:I6:156:GLN:OE1	2.03	0.59
3:X6:41:VAL:HG23	13:X6:202:CYC:CMB	2.33	0.59
2:J7:54:ASP:N	2:J7:54:ASP:OD1	2.34	0.59
2:L7:150:GLU:OE1	2:L7:154:TYR:HE2	1.86	0.59
8:F8:77:ARG:HH12	13:F8:1001:CYC:CGD	2.13	0.59
8:P8:88:TYR:CD1	13:P8:1001:CYC:HBB3	2.37	0.59
7:X8:126:VAL:HG22	13:X8:1001:CYC:CBC	2.33	0.59
7:c8:126:VAL:HG22	13:c8:1001:CYC:CBC	2.33	0.59
8:s8:116:THR:OG1	10:19:1103:LEU:HD23	1.98	0.59
7:E9:81:CYS:SG	13:E9:1001:CYC:HAC2	2.41	0.59
3:VA:89:ILE:CG2	13:VA:201:CYC:HBC3	2.31	0.59
3:ZA:39:LEU:HD23	13:ZA:202:CYC:C2C	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:78:SER:OG	1:A1:155:GLU:OE2	2.20	0.59
5:A2:168:GLU:HA	5:A2:168:GLU:OE1	2.02	0.59
2:B2:103:GLY:O	2:J2:26:GLN:NE2	2.34	0.59
3:C2:85:ARG:CZ	13:C2:201:CYC:O2A	2.51	0.59
2:B3:33:GLU:N	2:B3:33:GLU:OE1	2.35	0.59
2:D3:31:ARG:HH11	2:D3:103:GLY:CA	2.14	0.59
3:E4:151:LYS:NZ	2:Q6:40:GLU:HG2	2.17	0.59
3:G4:79:ARG:O	3:G4:82:ALA:HB3	2.02	0.59
5:A5:131:ILE:HG13	3:C5:85:ARG:CZ	2.33	0.59
3:I5:44:ARG:HH12	3:I5:145:ASP:CG	2.03	0.59
4:N5:88:TYR:HA	3:R5:109:ARG:HH22	1.67	0.59
13:R5:201:CYC:CAB	2:U5:34:ARG:HE	2.09	0.59
3:M6:38:ARG:NH2	3:M6:101:GLY:HA2	2.18	0.59
3:X6:83:CYS:HB2	13:X6:201:CYC:HAC1	1.77	0.59
3:C7:58:ARG:CZ	2:D7:73:PRO:HB3	2.32	0.59
8:K8:77:ARG:HH12	13:K8:1001:CYC:CGD	2.13	0.59
9:N8:21:ARG:HB3	9:N8:23:LEU:H	1.67	0.59
7:Q8:126:VAL:HG22	13:Q8:1001:CYC:CBC	2.33	0.59
9:U8:21:ARG:HB3	9:U8:23:LEU:H	1.67	0.59
7:e8:126:VAL:HG22	13:e8:1001:CYC:CBC	2.33	0.59
7:n8:15:ALA:O	10:09:989:GLN:CD	2.45	0.59
8:o8:15:VAL:HG11	10:09:941:ARG:O	1.99	0.59
7:r8:126:VAL:HG22	13:r8:1001:CYC:CBC	2.33	0.59
8:u8:15:VAL:HG23	10:19:944:SER:HB3	1.84	0.59
10:19:986:PHE:CZ	13:19:1201:CYC:CBA	2.86	0.59
9:49:14:LEU:HD22	8:D9:77:ARG:CD	2.32	0.59
7:G9:100:ASP:OD1	7:G9:102:THR:OG1	2.20	0.59
7:K9:100:ASP:OD1	7:K9:102:THR:OG1	2.20	0.59
7:i9:100:ASP:OD1	7:i9:102:THR:OG1	2.20	0.59
1:A1:198:PHE:CD1	7:c8:82:LEU:HB3	2.37	0.59
3:X1:77:ASN:ND2	2:Y1:116:LEU:HA	2.16	0.59
3:Z1:40:ASP:OD2	13:Z1:201:CYC:CHB	2.50	0.59
3:C2:82:ALA:HB3	13:C2:201:CYC:CMD	2.32	0.59
2:F2:5:PRO:HG2	2:L2:26:GLN:OE1	2.03	0.59
2:L2:88:ASP:CG	13:L2:201:CYC:HHB	2.28	0.59
2:L2:150:GLU:OE1	2:L2:154:TYR:HE2	1.86	0.59
3:R2:37:LYS:HG2	13:U2:201:CYC:C1D	2.33	0.59
2:W2:34:ARG:CD	2:W2:150:GLU:OE1	2.49	0.59
13:W2:203:CYC:CMB	3:X2:41:VAL:HG23	2.33	0.59
3:I3:156:GLN:HA	3:I3:156:GLN:OE1	2.03	0.59
3:G4:36:ASN:ND2	13:G4:201:CYC:HAA2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G4:83:CYS:HB2	13:G4:202:CYC:C3C	2.31	0.59
3:I4:150:THR:O	13:I4:202:CYC:NB	2.35	0.59
2:U4:129:TRP:CD2	13:U4:1001:CYC:HMC3	2.36	0.59
3:I5:146:PRO:HA	13:I5:202:CYC:HBB2	1.84	0.59
4:N5:62:LEU:HG	4:N5:72:PHE:CG	2.36	0.59
13:R5:201:CYC:CAB	2:U5:34:ARG:HH11	2.12	0.59
5:A6:215:ASP:CG	8:H9:68:ARG:HE	2.03	0.59
2:F6:31:ARG:NH1	3:G6:6:PHE:CZ	2.70	0.59
3:Z6:154:CYS:SG	13:Z6:201:CYC:C3B	2.90	0.59
6:A7:114:LEU:O	6:A7:153:PHE:CZ	2.48	0.59
3:I7:40:ASP:OD1	3:I7:149:ILE:HD13	2.01	0.59
3:M7:41:VAL:O	3:M7:45:ILE:HG12	2.02	0.59
7:E8:126:VAL:HG22	13:E8:1001:CYC:CBC	2.33	0.59
8:F8:82:CYS:SG	13:F8:1001:CYC:C4C	2.91	0.59
7:O8:126:VAL:HG22	13:O8:1001:CYC:CBC	2.33	0.59
7:S8:44:THR:HG22	8:T8:19:TYR:CB	2.33	0.59
8:T8:84:ARG:CZ	13:T8:1001:CYC:O2A	2.46	0.59
8:d8:82:CYS:SG	13:d8:1001:CYC:C4C	2.91	0.59
7:j8:106:GLU:OE1	10:09:1118:SER:CB	2.50	0.59
8:q8:82:CYS:SG	13:q8:1001:CYC:C4C	2.91	0.59
8:s8:88:TYR:CD1	13:s8:1001:CYC:HBB3	2.37	0.59
10:19:714:ARG:HA	10:19:717:GLN:HB2	1.85	0.59
7:T9:81:CYS:SG	13:T9:1001:CYC:CAC	2.91	0.59
7:b9:100:ASP:OD1	7:b9:102:THR:OG1	2.20	0.59
7:f9:100:ASP:OD1	7:f9:102:THR:OG1	2.20	0.59
3:CA:39:LEU:O	13:CA:201:CYC:HMB2	2.03	0.59
3:IA:58:ARG:O	3:IA:62:GLU:HB2	2.02	0.59
3:ZA:157:LEU:HD23	3:ZA:157:LEU:N	2.03	0.59
2:B1:94:ARG:HA	3:C1:19:PHE:CE1	2.38	0.59
3:K1:123:THR:HG23	3:K1:124:PRO:HD2	1.84	0.59
5:A2:239:PHE:CE1	7:n8:60:GLN:NE2	2.71	0.59
2:B2:54:ASP:OD1	2:B2:54:ASP:N	2.34	0.59
3:C2:82:ALA:HB3	13:C2:201:CYC:HMD1	1.83	0.59
4:N2:158:VAL:O	4:N2:158:VAL:HG13	2.00	0.59
3:R2:83:CYS:HB3	13:R2:1001:CYC:CHD	2.33	0.59
3:T2:37:LYS:CB	3:T2:157:LEU:CD1	2.81	0.59
2:D3:88:ASP:CG	13:D3:1001:CYC:HHB	2.28	0.59
3:E3:83:CYS:HB3	13:E3:201:CYC:C4C	2.32	0.59
2:J3:74:GLN:HA	13:J3:1001:CYC:HBD2	1.85	0.59
1:A4:3:ILE:CG2	3:C4:78:ARG:HD3	2.33	0.59
1:A4:78:SER:OG	1:A4:155:GLU:OE2	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I4:1:MET:HE3	3:I4:2:THR:H	1.68	0.59
2:S4:14:ASP:OD2	3:T4:109:ARG:NH1	2.35	0.59
5:A5:239:PHE:HB3	7:A9:52:LYS:NZ	2.16	0.59
2:D5:34:ARG:NH1	2:D5:150:GLU:CB	2.56	0.59
5:A6:191:GLN:HA	7:N9:75:GLN:CD	2.26	0.59
3:R6:37:LYS:HG2	13:U6:201:CYC:C1D	2.33	0.59
6:A7:120:ASN:HD21	6:A7:122:ASP:HB2	1.67	0.59
2:L7:88:ASP:CG	13:L7:201:CYC:HHB	2.28	0.59
7:H8:126:VAL:HG22	13:H8:1001:CYC:CBC	2.33	0.59
8:K8:82:CYS:SG	13:K8:1001:CYC:C4C	2.91	0.59
8:R8:82:CYS:SG	13:R8:1001:CYC:C4C	2.91	0.59
8:R8:88:TYR:CD1	13:R8:1001:CYC:HBB3	2.37	0.59
8:a8:82:CYS:SG	13:b8:1001:CYC:C4C	2.91	0.59
8:m8:82:CYS:SG	13:09:1201:CYC:C4C	2.91	0.59
7:N9:81:CYS:SG	13:N9:1001:CYC:CAC	2.91	0.59
7:P9:65:VAL:HG12	13:P9:1001:CYC:OC	2.03	0.59
7:u9:90:ARG:NH2	8:z9:74:TYR:OH	2.30	0.59
13:AA:304:CYC:HAC2	3:KA:114:LEU:CD1	2.31	0.59
2:DA:34:ARG:NE	2:DA:150:GLU:OE2	2.35	0.59
2:YA:34:ARG:CD	2:YA:150:GLU:OE2	2.21	0.59
1:A1:199:LEU:HA	7:c8:79:ALA:HB2	1.84	0.59
2:L1:85:CYS:SG	13:L1:201:CYC:HAC2	2.42	0.59
3:I2:156:GLN:HA	3:I2:156:GLN:OE1	2.03	0.59
2:J2:85:CYS:HA	13:J2:1001:CYC:CAC	2.32	0.59
3:V2:58:ARG:NH2	2:W2:73:PRO:HG2	2.18	0.59
3:G3:70:PRO:C	2:FA:62:GLN:OE1	2.46	0.59
1:A4:198:PHE:CZ	7:V8:86:ASP:CB	2.84	0.59
1:A4:207:ILE:CD1	7:V8:66:VAL:CG1	2.12	0.59
3:K4:108:ASP:OD1	3:K4:108:ASP:N	2.34	0.59
2:U4:143:LEU:HG	2:U4:148:ALA:HB2	1.85	0.59
2:O5:6:ILE:CG1	2:O5:31:ARG:HD2	2.22	0.59
3:X5:68:ILE:CD1	13:Y5:201:CYC:CGA	2.78	0.59
3:Z5:39:LEU:HD23	13:Z5:202:CYC:C2C	2.32	0.59
5:A6:241:ILE:HG21	7:C8:82:LEU:HD12	1.85	0.59
2:B6:74:GLN:HA	13:B6:1001:CYC:CBD	2.33	0.59
3:C6:58:ARG:CZ	2:D6:73:PRO:HB3	2.32	0.59
3:V6:58:ARG:NH2	2:W6:73:PRO:HG2	2.18	0.59
3:C7:38:ARG:HD2	3:C7:98:ILE:O	2.02	0.59
8:B8:82:CYS:SG	13:B8:1001:CYC:C4C	2.91	0.59
8:M8:88:TYR:CD1	13:M8:1001:CYC:HBB3	2.37	0.59
8:Y8:82:CYS:SG	13:Y8:1001:CYC:C4C	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h8:77:ARG:HH12	13:h8:1001:CYC:CGD	2.13	0.59
8:k8:82:CYS:SG	13:k8:1001:CYC:C4C	2.91	0.59
8:m8:77:ARG:HH12	13:09:1201:CYC:CGD	2.13	0.59
9:49:20:GLN:C	8:D9:88:TYR:OH	2.40	0.59
7:R9:65:VAL:HG12	13:R9:1001:CYC:OC	2.03	0.59
7:i9:81:CYS:SG	13:i9:1001:CYC:CAC	2.91	0.59
7:q9:65:VAL:HG12	13:q9:1001:CYC:OC	2.03	0.59
7:s9:81:CYS:SG	13:s9:1001:CYC:CAC	2.91	0.59
7:w9:100:ASP:OD1	7:w9:102:THR:OG1	2.20	0.59
2:DA:34:ARG:NH1	2:DA:150:GLU:CB	2.56	0.59
3:RA:150:THR:OG1	13:RA:201:CYC:HAD1	2.03	0.59
3:RA:151:LYS:HA	3:RA:151:LYS:HE3	1.85	0.59
1:A1:119:TYR:N	1:A1:123:GLU:OE2	2.34	0.58
3:E1:128:VAL:HG23	13:E1:201:CYC:HMC2	1.84	0.58
2:J1:119:ILE:HD13	13:J1:1001:CYC:CMA	2.28	0.58
13:P1:201:CYC:HHA	13:P1:201:CYC:O2A	2.03	0.58
2:O2:123:PHE:CE2	13:O2:1001:CYC:HAA2	2.38	0.58
13:A3:301:CYC:HMD1	3:C3:82:ALA:HB3	1.84	0.58
3:G3:41:VAL:CG2	13:G3:202:CYC:CAC	2.80	0.58
2:L3:150:GLU:OE1	2:L3:154:TYR:HE2	1.86	0.58
1:A4:129:ILE:HD11	3:C4:85:ARG:NH2	2.18	0.58
2:D4:91:HIS:HB2	13:D4:1001:CYC:CMB	2.32	0.58
5:A5:131:ILE:HD13	5:A5:131:ILE:O	2.01	0.58
13:G6:201:CYC:HAB2	2:L6:34:ARG:HH11	1.67	0.58
2:L6:150:GLU:OE1	2:L6:154:TYR:HE2	1.86	0.58
3:P6:93:TYR:HE2	13:P6:201:CYC:HBB1	1.67	0.58
8:B8:72:ASN:OD1	13:B8:1001:CYC:HMD1	2.03	0.58
8:F8:88:TYR:CD1	13:F8:1001:CYC:HBB3	2.37	0.58
8:K8:88:TYR:CD1	13:K8:1001:CYC:HBB3	2.37	0.58
8:T8:88:TYR:CD1	13:T8:1001:CYC:HBB3	2.37	0.58
8:T8:109:VAL:CG1	13:T8:1001:CYC:CAB	2.73	0.58
8:Y8:88:TYR:CD1	13:Y8:1001:CYC:HBB3	2.37	0.58
7:Z8:126:VAL:HG22	13:Z8:1001:CYC:CBC	2.33	0.58
8:f8:84:ARG:CZ	13:f8:1001:CYC:O2A	2.46	0.58
7:g8:126:VAL:HG22	13:g8:1001:CYC:CBC	2.33	0.58
9:49:14:LEU:CD2	8:D9:77:ARG:HD2	2.31	0.58
7:G9:81:CYS:SG	13:G9:1001:CYC:CAC	2.91	0.58
7:R9:81:CYS:SG	13:R9:1001:CYC:CAC	2.91	0.58
7:X9:81:CYS:SG	13:X9:1001:CYC:CAC	2.91	0.58
7:k9:81:CYS:SG	13:k9:1001:CYC:CAC	2.91	0.58
2:QA:31:ARG:CZ	2:QA:103:GLY:HA3	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RA:68:ILE:CD1	13:SA:1001:CYC:O2A	2.51	0.58
2:WA:34:ARG:HA	2:WA:34:ARG:CZ	2.33	0.58
3:XA:77:ASN:OD1	13:YA:201:CYC:C4B	2.51	0.58
1:A1:129:ILE:HD11	3:C1:85:ARG:NH2	2.18	0.58
3:V1:108:ASP:OD1	3:V1:108:ASP:N	2.34	0.58
3:X1:108:ASP:OD1	3:X1:108:ASP:N	2.34	0.58
2:J2:119:ILE:CD1	13:J2:1001:CYC:HMA3	2.27	0.58
2:U2:94:ARG:NH1	3:Z2:75:TYR:OH	2.36	0.58
3:Z2:38:ARG:NH2	3:Z2:101:GLY:CA	2.65	0.58
3:K3:144:ASN:CB	3:K3:158:ILE:CD1	2.77	0.58
2:B4:29:ARG:HH21	2:J4:34:ARG:HD3	1.68	0.58
2:L4:85:CYS:SG	13:L4:201:CYC:HAC2	2.42	0.58
13:A5:301:CYC:O2A	3:C5:85:ARG:CZ	2.50	0.58
3:C5:58:ARG:O	3:C5:62:GLU:HB2	2.04	0.58
3:P5:152:GLY:HA3	13:P5:202:CYC:HMA3	1.85	0.58
2:U5:33:GLU:HA	2:U5:33:GLU:OE1	2.03	0.58
3:V5:154:CYS:HG	13:V5:202:CYC:HMB2	1.62	0.58
3:X5:77:ASN:OD1	13:Y5:201:CYC:C4B	2.51	0.58
3:C6:82:ALA:HB3	13:C6:201:CYC:HMD1	1.83	0.58
2:F6:5:PRO:HG2	2:L6:26:GLN:OE1	2.03	0.58
2:O6:34:ARG:HH12	13:X6:202:CYC:CBC	2.13	0.58
3:P6:38:ARG:NH2	3:P6:101:GLY:HA2	2.17	0.58
2:S6:26:GLN:OE1	2:Y6:5:PRO:CG	2.40	0.58
3:V6:41:VAL:O	3:V6:45:ILE:HG12	2.03	0.58
6:A7:14:ASN:CA	13:E7:201:CYC:HMA3	1.90	0.58
13:A7:301:CYC:HMD1	3:C7:82:ALA:HB3	1.84	0.58
3:E7:85:ARG:HH22	13:E7:201:CYC:HBA2	1.69	0.58
8:D8:72:ASN:OD1	13:D8:1001:CYC:HMD1	2.03	0.58
8:I8:82:CYS:SG	13:I8:1001:CYC:C4C	2.91	0.58
7:O8:78:THR:C	5:AA:241:ILE:HD11	2.29	0.58
7:S8:126:VAL:HG22	13:S8:1001:CYC:CBC	2.33	0.58
8:T8:72:ASN:OD1	13:T8:1001:CYC:HMD1	2.03	0.58
7:Z8:59:PHE:CB	7:I9:73:TYR:HE1	2.16	0.58
8:f8:72:ASN:OD1	13:f8:1001:CYC:HMD1	2.03	0.58
7:l8:126:VAL:HG22	13:l8:1001:CYC:CBC	2.33	0.58
8:m8:72:ASN:OD1	13:09:1201:CYC:HMD1	2.03	0.58
8:s8:82:CYS:SG	13:s8:1001:CYC:C4C	2.91	0.58
10:09:295:ILE:HD11	10:09:326:VAL:HG22	1.84	0.58
10:19:430:PHE:CZ	13:19:1205:CYC:HAA1	2.38	0.58
10:19:525:PRO:HD3	10:19:545:THR:HG21	1.85	0.58
11:g9:69:PRO:HG3	8:h9:17:GLY:HA3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:u9:81:CYS:SG	13:u9:1001:CYC:CAC	2.91	0.58
3:VA:38:ARG:HD3	3:VA:157:LEU:HD22	1.84	0.58
1:A1:3:ILE:CG2	3:C1:78:ARG:HD3	2.33	0.58
1:A1:190:TYR:CE2	3:C1:16:ARG:NE	2.71	0.58
3:G1:69:ALA:HB2	8:d8:16:GLN:NE2	2.17	0.58
3:K1:121:LEU:HD23	13:K1:201:CYC:O2D	1.94	0.58
5:A2:60:GLU:O	5:A2:62:LEU:N	2.36	0.58
3:E2:85:ARG:HH22	13:E2:201:CYC:HBA2	1.68	0.58
3:G2:154:CYS:SG	13:G2:201:CYC:CBC	2.82	0.58
3:M2:38:ARG:HH12	3:M2:101:GLY:CA	2.16	0.58
2:Y2:91:HIS:HB3	13:Y2:201:CYC:CAB	2.33	0.58
3:E3:34:GLU:HG2	3:E3:34:GLU:O	2.02	0.58
2:O4:138:LYS:O	2:O4:141:HIS:CD2	2.55	0.58
3:X4:121:LEU:HD22	13:X4:201:CYC:HBD1	1.86	0.58
2:B6:68:THR:C	2:B6:77:ALA:CB	2.77	0.58
3:C6:85:ARG:NH2	13:C6:201:CYC:O2A	2.35	0.58
3:M6:41:VAL:O	3:M6:45:ILE:HG12	2.02	0.58
2:B7:22:ASN:OD1	2:J7:34:ARG:NH1	2.36	0.58
7:E8:69:GLY:HA3	7:E9:60:GLN:HG3	1.86	0.58
8:K8:72:ASN:OD1	13:K8:1001:CYC:HMD1	2.03	0.58
7:L8:20:PRO:CG	7:Z9:101:VAL:HG22	2.32	0.58
7:O8:78:THR:HB	5:AA:241:ILE:HD11	1.85	0.58
8:P8:72:ASN:OD1	13:P8:1001:CYC:HMD1	2.03	0.58
7:X8:151:SER:OG	7:t8:20:PRO:HB3	2.04	0.58
8:a8:72:ASN:OD1	13:b8:1001:CYC:HMD1	2.04	0.58
13:q8:1001:CYC:HBB2	10:19:1033:ASN:HD22	1.68	0.58
8:u8:15:VAL:CG1	10:19:942:GLY:N	2.66	0.58
8:u8:82:CYS:SG	13:19:1201:CYC:C4C	2.91	0.58
8:u8:112:GLY:C	10:19:1112:LEU:HD22	2.28	0.58
10:09:985:VAL:HG12	10:09:985:VAL:O	2.02	0.58
10:19:261:GLN:OE1	9:39:20:GLN:OE1	2.20	0.58
9:39:23:LEU:HB3	8:l9:88:TYR:OH	2.03	0.58
7:N9:10:ASN:ND2	7:R9:10:ASN:HD21	2.01	0.58
7:X9:100:ASP:OD1	7:X9:102:THR:OG1	2.20	0.58
13:AA:304:CYC:CBB	3:KA:60:LEU:HD21	2.31	0.58
3:PA:152:GLY:HA3	13:PA:202:CYC:HMA3	1.85	0.58
3:X1:40:ASP:CG	13:X1:202:CYC:HHB	2.28	0.58
2:Y1:29:ARG:HH21	13:Z1:201:CYC:C1C	2.17	0.58
3:G2:41:VAL:HG21	13:G2:201:CYC:HBC1	1.85	0.58
13:G2:201:CYC:HAB2	2:L2:34:ARG:HH11	1.67	0.58
4:N2:3:ILE:O	4:N2:3:ILE:HG13	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A3:96:VAL:CG1	6:A3:105:LEU:CD2	2.79	0.58
6:A3:120:ASN:HD21	6:A3:122:ASP:HB2	1.67	0.58
2:B3:30:GLY:HA3	2:J3:30:GLY:CA	2.16	0.58
3:G3:154:CYS:HB3	13:G3:202:CYC:CAC	2.26	0.58
1:A4:50:TYR:CE1	1:A4:64:ARG:HG2	2.37	0.58
1:A4:70:SER:HB2	13:K4:201:CYC:HMD2	1.86	0.58
1:A4:198:PHE:CD1	7:V8:82:LEU:HB3	2.38	0.58
2:B4:94:ARG:HA	3:C4:19:PHE:CE1	2.38	0.58
2:H4:34:ARG:NH1	2:H4:150:GLU:CB	2.58	0.58
5:A5:17:VAL:CG2	13:A5:302:CYC:CMA	2.79	0.58
5:A5:178:ARG:NH2	13:A5:303:CYC:CGD	2.61	0.58
2:Y5:29:ARG:HG2	13:Z5:202:CYC:OC	2.02	0.58
5:A6:60:GLU:O	5:A6:62:LEU:N	2.36	0.58
5:A6:243:TYR:CE1	7:C8:52:LYS:HE3	2.38	0.58
2:F6:123:PHE:CE2	13:F6:1001:CYC:HAA1	2.38	0.58
3:T6:37:LYS:CB	3:T6:157:LEU:CD1	2.81	0.58
3:V6:154:CYS:O	3:V6:158:ILE:HG13	2.03	0.58
2:W6:34:ARG:HH11	13:W6:201:CYC:H2C	0.42	0.58
2:D7:23:THR:CG2	2:D7:24:GLU:OE2	2.45	0.58
8:D8:82:CYS:SG	13:D8:1001:CYC:C4C	2.91	0.58
8:F8:84:ARG:CZ	13:F8:1001:CYC:O2A	2.46	0.58
8:a8:88:TYR:CD1	13:b8:1001:CYC:HBB3	2.37	0.58
9:b8:8:THR:HB	9:b8:53:LYS:HB2	1.86	0.58
9:49:17:THR:O	9:49:17:THR:OG1	2.19	0.58
7:G9:65:VAL:HG12	13:G9:1001:CYC:OC	2.03	0.58
7:I9:65:VAL:HG12	13:I9:1001:CYC:OC	2.03	0.58
7:K9:81:CYS:SG	13:K9:1001:CYC:CAC	2.91	0.58
3:IA:16:ARG:HG2	3:PA:130:VAL:HG22	1.86	0.58
3:KA:77:ASN:OD1	13:LA:201:CYC:C3B	2.51	0.58
3:XA:68:ILE:CD1	13:YA:201:CYC:CGA	2.78	0.58
2:YA:9:ALA:HB1	2:YA:24:GLU:HB3	1.86	0.58
2:YA:29:ARG:HD3	3:ZA:39:LEU:HD22	1.85	0.58
3:I1:1:MET:HE3	3:I1:2:THR:H	1.68	0.58
3:K2:68:ILE:HD13	13:L2:201:CYC:O1A	2.04	0.58
3:K2:82:ALA:CB	13:K2:201:CYC:O2A	2.52	0.58
3:E3:85:ARG:HH22	13:E3:201:CYC:HBA2	1.69	0.58
3:M3:38:ARG:HH12	3:M3:101:GLY:CA	2.16	0.58
3:G4:82:ALA:HB1	13:G4:202:CYC:C3D	2.33	0.58
4:N4:112:SER:O	4:N4:115:VAL:CG1	2.51	0.58
2:Q4:119:ILE:CD1	13:Q4:201:CYC:CMA	2.80	0.58
2:D6:88:ASP:CG	13:D6:1001:CYC:HHB	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K6:82:ALA:CB	13:K6:201:CYC:O2A	2.52	0.58
2:O6:29:ARG:HH12	13:W6:201:CYC:HMD2	1.24	0.58
3:P6:34:GLU:CG	3:P6:157:LEU:HD11	2.32	0.58
2:H7:91:HIS:HB2	13:H7:1001:CYC:HMB2	1.86	0.58
7:A8:126:VAL:HG22	13:A8:1001:CYC:CBC	2.33	0.58
7:C8:69:GLY:CA	7:I9:64:ASP:OD2	2.51	0.58
9:G8:8:THR:HB	9:G8:53:LYS:HB2	1.86	0.58
9:G8:21:ARG:HB3	9:G8:23:LEU:H	1.67	0.58
8:M8:84:ARG:CZ	13:M8:1001:CYC:O2A	2.46	0.58
7:n8:15:ALA:O	10:09:989:GLN:NE2	2.36	0.58
7:C9:81:CYS:SG	13:C9:1001:CYC:CAC	2.91	0.58
7:d9:81:CYS:SG	13:d9:1001:CYC:CAC	2.91	0.58
7:f9:81:CYS:SG	13:f9:1001:CYC:CAC	2.91	0.58
2:B1:53:ILE:HD11	8:d8:22:THR:CG2	2.31	0.58
2:B1:87:ARG:HB2	8:d8:23:ALA:CB	2.31	0.58
3:X2:128:VAL:HG22	13:X2:201:CYC:HMC3	1.83	0.58
3:K3:121:LEU:HD23	13:K3:201:CYC:O1D	2.00	0.58
3:X4:40:ASP:CG	13:X4:202:CYC:HHB	2.28	0.58
2:Y4:29:ARG:HH21	13:Z4:201:CYC:C1C	2.17	0.58
3:Z4:83:CYS:HB2	13:Z4:202:CYC:HMD2	1.85	0.58
13:B5:1001:CYC:CGA	3:G5:68:ILE:CD1	2.76	0.58
2:W5:9:ALA:HB1	2:W5:24:GLU:HB3	1.86	0.58
5:A6:198:LEU:HD12	7:N9:52:LYS:HG2	1.85	0.58
3:E6:41:VAL:O	3:E6:45:ILE:HG12	2.04	0.58
6:A7:103:TYR:CE2	3:C7:113:GLY:HA3	2.39	0.58
3:K7:68:ILE:HD13	13:L7:201:CYC:O1A	2.04	0.58
3:K7:117:THR:O	3:K7:121:LEU:HB2	2.04	0.58
8:T8:82:CYS:SG	13:T8:1001:CYC:C4C	2.91	0.58
7:Z8:81:CYS:SG	13:Z8:1001:CYC:C4C	2.92	0.58
8:s8:72:ASN:OD1	13:s8:1001:CYC:HMD1	2.03	0.58
7:t8:126:VAL:HG22	13:t8:1001:CYC:CBC	2.33	0.58
10:19:623:ARG:HA	10:19:626:ASN:HB2	1.85	0.58
7:E9:65:VAL:HG12	13:E9:1001:CYC:OC	2.03	0.58
7:E9:83:ARG:HH12	13:E9:1001:CYC:CGA	2.09	0.58
7:b9:81:CYS:SG	13:b9:1001:CYC:CAC	2.91	0.58
7:q9:81:CYS:SG	13:q9:1001:CYC:CAC	2.91	0.58
7:y9:81:CYS:SG	13:y9:1001:CYC:CAC	2.91	0.58
5:AA:131:ILE:HG13	3:CA:85:ARG:CZ	2.33	0.58
2:LA:9:ALA:HB1	2:LA:24:GLU:HB3	1.86	0.58
3:PA:154:CYS:SG	13:PA:202:CYC:C3B	2.91	0.58
1:A1:148:GLU:OE2	1:A1:162:ARG:NH1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D1:88:ASP:HA	13:D1:1001:CYC:HMB2	1.86	0.58
2:J1:41:ALA:HA	2:J1:143:LEU:HD21	1.86	0.58
4:N1:200:SER:OG	4:N1:201:THR:N	2.37	0.58
2:D2:88:ASP:CG	13:D2:1001:CYC:HHB	2.28	0.58
3:E2:41:VAL:O	3:E2:45:ILE:HG12	2.04	0.58
2:J2:74:GLN:HA	13:J2:1001:CYC:HBD2	1.85	0.58
13:P2:201:CYC:HMA2	13:P2:201:CYC:HB	1.69	0.58
3:T2:38:ARG:CG	3:T2:157:LEU:CD2	2.79	0.58
6:A3:70:SER:HB2	13:K3:201:CYC:HMD2	1.84	0.58
3:G3:41:VAL:HG21	13:G3:202:CYC:HBC1	1.85	0.58
1:A4:201:LEU:CB	7:V8:52:LYS:CE	2.75	0.58
2:D4:20:LEU:HD13	3:E4:99:LEU:HD13	1.84	0.58
3:K4:157:LEU:HD23	3:K4:157:LEU:C	2.28	0.58
2:B5:18:ARG:NH1	2:J5:109:ASP:OD2	2.36	0.58
3:M6:38:ARG:HH12	3:M6:101:GLY:CA	2.16	0.58
2:B7:68:THR:C	2:B7:77:ALA:CB	2.77	0.58
2:B7:74:GLN:HA	13:B7:1001:CYC:CBD	2.33	0.58
7:J8:9:VAL:HG21	10:19:523:GLN:HE22	1.69	0.58
7:L8:126:VAL:HG22	13:L8:1001:CYC:CBC	2.33	0.58
7:O8:81:CYS:SG	13:O8:1001:CYC:C4C	2.92	0.58
8:W8:82:CYS:SG	13:W8:1001:CYC:C4C	2.91	0.58
8:f8:82:CYS:SG	13:f8:1001:CYC:C4C	2.91	0.58
7:g8:81:CYS:SG	13:g8:1001:CYC:C4C	2.92	0.58
8:h8:82:CYS:SG	13:h8:1001:CYC:C4C	2.91	0.58
7:r8:81:CYS:SG	13:r8:1001:CYC:C4C	2.92	0.58
10:19:507:ARG:NH2	10:19:653:GLU:OE2	2.37	0.58
7:E9:100:ASP:OD1	7:E9:102:THR:OG1	2.20	0.58
7:P9:81:CYS:SG	13:P9:1001:CYC:CAC	2.91	0.58
7:Z9:81:CYS:SG	13:Z9:1001:CYC:CAC	2.91	0.58
7:b9:65:VAL:HG12	13:b9:1001:CYC:OC	2.03	0.58
7:o9:81:CYS:SG	13:o9:1001:CYC:CAC	2.91	0.58
8:p9:34:THR:HG22	8:p9:37:LEU:HD11	1.86	0.58
8:t9:34:THR:HG22	8:t9:37:LEU:HD11	1.86	0.58
7:w9:81:CYS:SG	13:w9:1001:CYC:CAC	2.91	0.58
13:AA:304:CYC:HMC3	3:KA:89:ILE:CG1	2.21	0.58
2:OA:9:ALA:HB1	2:OA:24:GLU:HB3	1.86	0.58
13:UA:1001:CYC:O2A	3:ZA:68:ILE:HD13	1.99	0.58
1:A1:56:GLU:O	1:A1:59:ILE:CG1	2.48	0.58
4:N1:112:SER:O	4:N1:115:VAL:CG1	2.51	0.58
3:V1:83:CYS:SG	13:V1:202:CYC:C3B	2.92	0.58
3:C2:38:ARG:HD2	3:C2:98:ILE:O	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V2:41:VAL:O	3:V2:45:ILE:HG12	2.03	0.58
6:A3:104:ARG:HD2	6:A3:108:ILE:HD12	1.74	0.58
2:B3:74:GLN:OE1	2:B3:124:ASP:CB	2.52	0.58
2:F3:5:PRO:HG2	2:L3:26:GLN:OE1	2.03	0.58
3:K3:82:ALA:CB	13:K3:201:CYC:O2A	2.52	0.58
3:M3:34:GLU:HG2	3:M3:34:GLU:O	2.01	0.58
1:A4:104:ARG:NH2	1:A4:175:PRO:O	2.36	0.58
1:A4:199:LEU:CD2	7:V8:75:GLN:C	2.77	0.58
4:N4:48:TYR:HB2	3:P4:85:ARG:CZ	2.32	0.58
2:S4:85:CYS:SG	13:S4:1001:CYC:H2C	2.44	0.58
5:A5:231:ASN:ND2	7:q9:63:PRO:HG2	2.16	0.58
4:N5:235:ARG:HB2	4:N5:263:TYR:HB2	1.86	0.58
13:P5:201:CYC:HHA	13:P5:201:CYC:O2A	2.04	0.58
5:A6:234:GLN:NE2	7:C8:73:TYR:HD1	1.95	0.58
3:I6:116:GLU:HG2	4:N6:282:SER:HA	1.86	0.58
2:O6:123:PHE:CE2	13:O6:1001:CYC:HAA2	2.38	0.58
3:R6:121:LEU:HD21	13:R6:1001:CYC:CAA	2.34	0.58
3:X6:128:VAL:HG22	13:X6:201:CYC:HMC3	1.84	0.58
2:D7:88:ASP:CG	13:D7:1001:CYC:HHB	2.28	0.58
8:I8:72:ASN:OD1	13:I8:1001:CYC:HMD1	2.03	0.58
7:O8:66:VAL:CG2	5:AA:234:GLN:CD	2.77	0.58
8:h8:72:ASN:OD1	13:h8:1001:CYC:HMD1	2.03	0.58
9:i8:8:THR:HB	9:i8:53:LYS:HB2	1.86	0.58
7:A9:81:CYS:SG	13:A9:1001:CYC:CAC	2.91	0.58
8:c9:34:THR:HG22	8:c9:37:LEU:HD11	1.86	0.58
11:g9:68:ARG:HG2	11:g9:69:PRO:HD2	1.86	0.58
7:o9:79:ALA:HB1	5:AA:198:LEU:CB	2.27	0.58
7:s9:65:VAL:HG12	13:s9:1001:CYC:OC	2.03	0.58
3:IA:38:ARG:HD3	3:IA:157:LEU:HD22	1.84	0.58
3:KA:152:GLY:HA3	13:KA:201:CYC:HMA3	1.85	0.58
3:RA:39:LEU:HD21	13:RA:201:CYC:HBB2	1.81	0.58
2:UA:33:GLU:HA	2:UA:33:GLU:OE1	2.03	0.58
3:X1:121:LEU:HD22	13:X1:201:CYC:HBD1	1.86	0.58
3:Z1:83:CYS:HB2	13:Z1:202:CYC:HMD2	1.85	0.58
2:B2:22:ASN:OD1	2:J2:34:ARG:NH1	2.36	0.58
2:B2:74:GLN:HA	13:B2:1001:CYC:CBD	2.33	0.58
3:M2:38:ARG:NH2	3:M2:101:GLY:HA2	2.18	0.58
3:P2:83:CYS:SG	13:P2:201:CYC:CAC	2.89	0.58
3:P2:93:TYR:HE2	13:P2:201:CYC:HBB1	1.67	0.58
2:Y2:31:ARG:CD	2:Y2:35:ALA:HB2	2.34	0.58
3:Z2:82:ALA:HB3	13:Z2:202:CYC:CMD	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:37:LYS:HB3	3:C3:154:CYS:HG	1.67	0.58
13:G3:202:CYC:HAB2	2:L3:34:ARG:HH11	1.68	0.58
3:K3:117:THR:O	3:K3:121:LEU:HB2	2.04	0.58
2:D4:88:ASP:HA	13:D4:1001:CYC:HMB2	1.86	0.58
2:J4:119:ILE:CD1	13:J4:1001:CYC:CMA	2.81	0.58
2:F5:34:ARG:HH21	13:M5:1003:CYC:HBC2	1.66	0.58
3:K5:154:CYS:SG	13:K5:201:CYC:HMB3	2.40	0.58
4:N5:92:GLN:HB3	13:N5:301:CYC:OB	2.03	0.58
2:O5:28:ALA:HA	2:O5:31:ARG:HG2	1.85	0.58
3:P5:154:CYS:SG	13:P5:202:CYC:C3B	2.91	0.58
2:Y5:9:ALA:HB1	2:Y5:24:GLU:HB3	1.86	0.58
3:E6:85:ARG:HH22	13:E6:201:CYC:HBA2	1.68	0.58
2:Y6:85:CYS:SG	13:Y6:201:CYC:CBC	2.92	0.58
6:A7:68:LEU:HB3	6:A7:82:PHE:CE2	2.37	0.58
2:F7:5:PRO:HG2	2:L7:26:GLN:OE1	2.03	0.58
3:I7:156:GLN:HA	3:I7:156:GLN:OE1	2.03	0.58
8:B8:84:ARG:HH11	10:09:572:ILE:HD13	1.69	0.58
7:E8:81:CYS:SG	13:E8:1001:CYC:C4C	2.92	0.58
8:M8:82:CYS:SG	13:M8:1001:CYC:C4C	2.91	0.58
8:P8:82:CYS:SG	13:P8:1001:CYC:C4C	2.91	0.58
8:W8:4:ASP:H	8:W8:7:THR:HG1	1.51	0.58
7:Z8:125:ALA:CB	13:Z8:1001:CYC:HMC2	2.33	0.58
7:j8:126:VAL:HG22	13:j8:1001:CYC:CBC	2.33	0.58
7:t8:52:LYS:HZ2	10:19:928:PRO:HG3	1.67	0.58
10:19:702:VAL:HG11	10:19:706:ARG:HH22	1.69	0.58
8:B9:34:THR:HG22	8:B9:37:LEU:HD11	1.86	0.58
7:E9:81:CYS:SG	13:E9:1001:CYC:CAC	2.91	0.58
8:Y9:34:THR:HG22	8:Y9:37:LEU:HD11	1.86	0.58
8:h9:34:THR:HG22	8:h9:37:LEU:HD11	1.86	0.58
3:EA:154:CYS:HB2	13:EA:201:CYC:HAC2	1.79	0.58
3:IA:146:PRO:HA	13:IA:202:CYC:HBB2	1.84	0.58
2:LA:32:TYR:HD1	3:MA:35:GLY:HA3	1.53	0.58
3:PA:152:GLY:HA3	13:PA:202:CYC:CMA	2.34	0.58
2:YA:31:ARG:HH11	2:YA:103:GLY:HA3	1.68	0.58
4:N1:155:GLU:CB	4:N1:157:GLN:HE22	2.17	0.58
2:S2:30:GLY:O	2:S2:34:ARG:CB	2.52	0.58
3:Z2:40:ASP:CG	13:Z2:201:CYC:HD	2.10	0.58
2:H3:91:HIS:HB2	13:H3:1001:CYC:HMB2	1.86	0.58
3:I3:85:ARG:HD3	3:I3:85:ARG:C	2.29	0.58
1:A4:152:ASN:OD1	1:A4:162:ARG:NH2	2.37	0.58
3:K4:152:GLY:CA	13:K4:202:CYC:HMA3	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P4:201:CYC:HHA	13:P4:201:CYC:O2A	2.03	0.58
2:W4:119:ILE:HD11	13:W4:1001:CYC:HAA1	1.86	0.58
5:A5:64:PHE:CZ	2:J5:18:ARG:NH1	2.66	0.58
2:L5:5:PRO:HG2	2:L5:31:ARG:HD2	1.86	0.58
13:P5:201:CYC:HMA2	13:P5:201:CYC:HB	1.69	0.58
2:Q5:31:ARG:NH1	2:Q5:103:GLY:HA2	2.11	0.58
5:A6:92:GLU:HB3	2:J6:16:GLN:NE2	2.19	0.58
3:G6:41:VAL:HG21	13:G6:201:CYC:HBC1	1.85	0.58
2:Q6:119:ILE:CD1	13:Q6:201:CYC:CMA	2.80	0.58
2:S6:30:GLY:O	2:S6:34:ARG:CB	2.52	0.58
2:B7:74:GLN:OE1	2:B7:124:ASP:CB	2.52	0.58
3:M7:38:ARG:HH12	3:M7:101:GLY:CA	2.16	0.58
3:M7:38:ARG:NH2	3:M7:101:GLY:HA2	2.18	0.58
7:A8:87:TYR:HB3	13:A8:1001:CYC:HBB3	1.86	0.58
9:G8:24:GLN:CD	10:09:522:ASP:OD1	2.45	0.58
7:L8:87:TYR:HB3	13:L8:1001:CYC:HBB3	1.86	0.58
9:i8:16:ARG:NH1	10:09:1082:ARG:NH2	2.50	0.58
7:n8:81:CYS:SG	13:n8:1001:CYC:C4C	2.92	0.58
8:q8:72:ASN:OD1	13:q8:1001:CYC:HMD1	2.03	0.58
8:S9:34:THR:HG22	8:S9:37:LEU:HD11	1.86	0.58
2:BA:18:ARG:NH1	2:JA:109:ASP:OD2	2.36	0.58
3:G1:82:ALA:HB1	13:G1:202:CYC:C3D	2.33	0.57
5:A2:165:LYS:NZ	13:E2:201:CYC:O1A	2.37	0.57
6:A3:96:VAL:HG12	6:A3:105:LEU:HD21	1.81	0.57
2:B3:68:THR:C	2:B3:77:ALA:CB	2.77	0.57
2:D3:34:ARG:HH21	13:I3:202:CYC:H2C	1.69	0.57
3:E3:41:VAL:O	3:E3:45:ILE:HG12	2.03	0.57
2:F3:123:PHE:CE2	13:F3:1001:CYC:HAA1	2.39	0.57
1:A4:209:THR:HB	7:V8:67:SER:OG	2.04	0.57
2:J4:41:ALA:HA	2:J4:143:LEU:HD21	1.86	0.57
3:P4:73:ASN:O	3:P4:79:ARG:HD2	2.04	0.57
3:K5:77:ASN:OD1	13:L5:201:CYC:C3B	2.51	0.57
2:W5:34:ARG:HA	2:W5:34:ARG:CZ	2.33	0.57
5:A6:165:LYS:NZ	13:E6:201:CYC:O1A	2.37	0.57
3:C6:83:CYS:CB	13:C6:201:CYC:CAC	2.62	0.57
2:D6:34:ARG:HH12	2:D6:146:GLN:CD	2.10	0.57
2:J6:74:GLN:HA	13:J6:1001:CYC:HBD2	1.85	0.57
2:J6:85:CYS:HA	13:J6:1001:CYC:CAC	2.32	0.57
2:O6:13:ALA:HB2	2:O6:24:GLU:HG2	1.86	0.57
2:U6:94:ARG:NH1	3:Z6:75:TYR:OH	2.36	0.57
3:V6:43:ASN:ND2	13:V6:201:CYC:HBC1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y6:91:HIS:HB3	13:Y6:201:CYC:CAB	2.33	0.57
3:I7:85:ARG:NH2	4:N7:267:SER:HB2	2.19	0.57
7:H8:81:CYS:SG	13:H8:1001:CYC:C4C	2.92	0.57
7:J8:81:CYS:SG	13:J8:1001:CYC:C4C	2.92	0.57
7:L8:19:SER:OG	7:Z9:6:LYS:HE2	2.04	0.57
7:V8:126:VAL:HG22	13:V8:1001:CYC:CBC	2.33	0.57
8:Y8:72:ASN:OD1	13:Y8:1001:CYC:HMD1	2.03	0.57
7:c8:81:CYS:SG	13:c8:1001:CYC:C4C	2.92	0.57
8:h8:84:ARG:CZ	13:h8:1001:CYC:O2A	2.46	0.57
7:j8:87:TYR:HB3	13:j8:1001:CYC:HBB3	1.86	0.57
7:n8:110:ILE:HD13	10:09:954:ARG:CD	2.34	0.57
7:t8:87:TYR:HB3	13:t8:1001:CYC:HBB3	1.86	0.57
8:F9:34:THR:HG22	8:F9:37:LEU:HD11	1.86	0.57
7:T9:100:ASP:OD1	7:T9:102:THR:OG1	2.20	0.57
4:NA:22:GLU:HA	4:NA:22:GLU:OE2	2.03	0.57
2:SA:34:ARG:CD	2:SA:150:GLU:OE2	2.52	0.57
3:VA:123:THR:HG21	13:VA:201:CYC:O1A	2.04	0.57
1:A1:176:ARG:HG3	1:A1:177:TYR:N	2.19	0.57
3:P1:89:ILE:HG21	13:P1:201:CYC:HBB2	1.84	0.57
3:T1:128:VAL:HG22	13:T1:202:CYC:HMB1	1.74	0.57
2:B2:74:GLN:OE1	2:B2:124:ASP:CB	2.52	0.57
3:I2:85:ARG:HD3	3:I2:85:ARG:C	2.29	0.57
13:P2:201:CYC:HHA	13:P2:201:CYC:O2A	2.04	0.57
2:Q2:74:GLN:HA	13:Q2:201:CYC:HBD2	1.84	0.57
2:W2:34:ARG:HH11	13:W2:201:CYC:H2C	0.42	0.57
2:Y2:31:ARG:HH22	2:Y2:35:ALA:CA	1.96	0.57
2:Y2:123:PHE:CE2	13:Y2:201:CYC:CAA	2.87	0.57
6:A3:103:TYR:CE2	3:C3:113:GLY:HA3	2.39	0.57
3:K3:68:ILE:HD13	13:L3:201:CYC:O1A	2.04	0.57
2:L3:88:ASP:CG	13:L3:201:CYC:HHB	2.28	0.57
1:A4:68:LEU:HB3	1:A4:82:PHE:HE1	1.68	0.57
1:A4:176:ARG:HG3	1:A4:177:TYR:N	2.19	0.57
2:F5:31:ARG:HH11	2:F5:103:GLY:HA3	1.69	0.57
3:K5:115:ARG:NH1	3:K5:173:GLY:O	2.37	0.57
3:V5:123:THR:HG21	13:V5:201:CYC:O1A	2.03	0.57
2:L6:88:ASP:CG	13:L6:201:CYC:HHB	2.28	0.57
4:N6:206:SER:HG	4:N6:212:TRP:CD1	2.22	0.57
2:B7:54:ASP:N	2:B7:54:ASP:OD1	2.34	0.57
3:K7:82:ALA:CB	13:K7:201:CYC:O2A	2.52	0.57
7:C8:87:TYR:HB3	13:C8:1001:CYC:HBB3	1.86	0.57
7:H8:126:VAL:H	13:H8:1001:CYC:HMC1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V8:87:TYR:HB3	13:V8:1001:CYC:HBB3	1.86	0.57
7:V8:126:VAL:H	13:V8:1001:CYC:HMC1	1.69	0.57
7:Z8:87:TYR:HB3	13:Z8:1001:CYC:HBB3	1.86	0.57
7:g8:87:TYR:HB3	13:g8:1001:CYC:HBB3	1.86	0.57
7:l8:126:VAL:H	13:l8:1001:CYC:HMC1	1.69	0.57
7:p8:126:VAL:HG22	13:p8:1001:CYC:CBC	2.33	0.57
7:I9:64:ASP:OD2	7:I9:64:ASP:N	2.37	0.57
7:I9:100:ASP:OD1	7:I9:102:THR:OG1	2.20	0.57
7:N9:100:ASP:OD1	7:N9:102:THR:OG1	2.20	0.57
8:z9:34:THR:HG22	8:z9:37:LEU:HD11	1.86	0.57
3:EA:39:LEU:HD23	13:EA:201:CYC:HBB3	0.63	0.57
2:FA:9:ALA:HB1	2:FA:24:GLU:HB3	1.86	0.57
4:NA:225:ASN:HB3	4:NA:260:ILE:HD13	1.87	0.57
1:A1:54:PHE:O	1:A1:55:SER:HB2	2.02	0.57
3:G1:83:CYS:O	3:G1:87:MET:HG2	2.04	0.57
2:U1:143:LEU:HG	2:U1:148:ALA:HB2	1.85	0.57
2:B2:68:THR:C	2:B2:77:ALA:CB	2.77	0.57
2:H2:91:HIS:HB2	13:H2:1001:CYC:HMB2	1.86	0.57
3:I2:116:GLU:HG2	4:N2:282:SER:HA	1.86	0.57
3:V2:150:THR:HG1	13:V2:201:CYC:C2A	2.16	0.57
3:V2:154:CYS:O	3:V2:158:ILE:HG13	2.03	0.57
2:W2:31:ARG:NH1	2:W2:103:GLY:N	2.52	0.57
2:Y2:85:CYS:SG	13:Y2:201:CYC:CBC	2.92	0.57
6:A3:53:ILE:O	6:A3:112:ARG:NH1	2.36	0.57
1:A4:54:PHE:O	1:A4:112:ARG:NH1	2.37	0.57
3:G4:83:CYS:O	3:G4:87:MET:HG2	2.04	0.57
2:F5:9:ALA:HB1	2:F5:24:GLU:HB3	1.86	0.57
2:H5:34:ARG:HE	2:H5:150:GLU:CD	2.12	0.57
3:I5:115:ARG:NH1	3:I5:173:GLY:O	2.38	0.57
2:L5:9:ALA:HB1	2:L5:24:GLU:HB3	1.86	0.57
3:M5:78:ARG:NH2	13:M5:1002:CYC:O2D	2.37	0.57
3:M5:115:ARG:NH1	3:M5:173:GLY:O	2.37	0.57
3:P5:152:GLY:HA3	13:P5:202:CYC:CMA	2.34	0.57
3:R5:151:LYS:HA	3:R5:151:LYS:HE3	1.85	0.57
2:S5:9:ALA:HB1	2:S5:24:GLU:HB3	1.86	0.57
2:H6:33:GLU:N	2:H6:33:GLU:OE1	2.37	0.57
13:P6:201:CYC:HHA	13:P6:201:CYC:O2A	2.04	0.57
13:P6:201:CYC:HMA2	13:P6:201:CYC:HB	1.69	0.57
3:R6:83:CYS:HB3	13:R6:1001:CYC:CHD	2.33	0.57
3:R6:154:CYS:CB	13:U6:201:CYC:HAC2	2.32	0.57
3:T6:89:ILE:HA	3:T6:92:ARG:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V6:44:ARG:NH1	3:V6:145:ASP:HB2	2.19	0.57
3:V6:89:ILE:HA	3:V6:92:ARG:HB2	1.87	0.57
13:B7:1001:CYC:CGD	3:G7:58:ARG:NH1	2.55	0.57
3:I7:116:GLU:HG2	4:N7:282:SER:HA	1.86	0.57
13:I7:201:CYC:O2A	4:N7:267:SER:HB3	2.05	0.57
7:E8:87:TYR:HB3	13:E8:1001:CYC:HBB3	1.86	0.57
7:J8:126:VAL:HG22	13:J8:1001:CYC:CBC	2.33	0.57
8:W8:72:ASN:OD1	13:W8:1001:CYC:HMD1	2.03	0.57
7:X8:81:CYS:SG	13:X8:1001:CYC:C4C	2.92	0.57
7:Z8:59:PHE:HB2	7:I9:73:TYR:HE1	1.69	0.57
8:q8:76:THR:HG21	7:r8:108:GLY:HA2	1.87	0.57
8:J9:34:THR:HG22	8:J9:37:LEU:HD11	1.86	0.57
8:l9:34:THR:HG22	8:l9:37:LEU:HD11	1.86	0.57
5:AA:39:SER:OG	3:MA:2:THR:N	2.37	0.57
5:AA:174:LEU:HB3	13:AA:303:CYC:OB	2.04	0.57
3:MA:74:ALA:HB2	13:MA:1002:CYC:OC	2.04	0.57
3:MA:78:ARG:NH2	13:MA:1002:CYC:O2D	2.37	0.57
3:MA:93:TYR:OH	4:NA:253:ARG:NH2	2.38	0.57
4:NA:62:LEU:HG	4:NA:72:PHE:CE1	2.39	0.57
3:PA:115:ARG:NH1	3:PA:173:GLY:O	2.38	0.57
3:VA:115:ARG:NH1	3:VA:173:GLY:O	2.38	0.57
1:A1:214:PRO:O	7:l8:59:PHE:CB	2.51	0.57
3:K1:157:LEU:HD23	3:K1:157:LEU:C	2.28	0.57
3:K2:117:THR:O	3:K2:121:LEU:HB2	2.04	0.57
2:O2:33:GLU:N	2:O2:33:GLU:OE1	2.37	0.57
3:I3:85:ARG:NH2	4:N3:267:SER:HB2	2.19	0.57
2:L4:51:ARG:NH1	3:C7:148:GLY:H	2.00	0.57
3:M4:108:ASP:OD1	3:M4:108:ASP:N	2.34	0.57
2:Q4:146:GLN:OE1	2:Q4:146:GLN:N	2.21	0.57
2:Y4:141:HIS:HE1	2:Y4:143:LEU:HB3	1.69	0.57
3:E5:115:ARG:NH1	3:E5:173:GLY:O	2.37	0.57
3:R5:68:ILE:CD1	13:S5:1001:CYC:O2A	2.51	0.57
3:R5:115:ARG:NH1	3:R5:173:GLY:O	2.37	0.57
2:W6:34:ARG:CD	2:W6:150:GLU:OE1	2.49	0.57
3:Z6:89:ILE:HA	3:Z6:92:ARG:HB2	1.87	0.57
2:B7:29:ARG:HH12	3:C7:36:ASN:ND2	2.03	0.57
3:E7:41:VAL:O	3:E7:45:ILE:HG12	2.03	0.57
7:C8:81:CYS:SG	13:C8:1001:CYC:C4C	2.92	0.57
7:H8:87:TYR:HB3	13:H8:1001:CYC:HBB3	1.86	0.57
7:X8:126:VAL:H	13:X8:1001:CYC:HMC1	1.69	0.57
7:l8:81:CYS:SG	13:l8:1001:CYC:C4C	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:m8:120:LEU:CD2	10:09:948:GLY:C	2.78	0.57
7:p8:87:TYR:HB3	13:p8:1001:CYC:HBB3	1.86	0.57
8:q8:77:ARG:HH12	13:q8:1001:CYC:CGD	2.13	0.57
10:09:907:PRO:HD2	10:09:908:ILE:HD12	1.85	0.57
10:19:732:VAL:HA	9:49:24:GLN:HE22	1.69	0.57
7:I9:83:ARG:HH12	13:I9:1001:CYC:CGA	2.09	0.57
8:L9:34:THR:HG22	8:L9:37:LEU:HD11	1.86	0.57
11:g9:131:VAL:HG12	11:g9:132:GLN:HE21	1.68	0.57
2:BA:9:ALA:HB1	2:BA:24:GLU:HB3	1.86	0.57
3:IA:128:VAL:HG22	13:IA:201:CYC:CMC	2.35	0.57
4:NA:22:GLU:O	4:NA:23:LEU:C	2.46	0.57
2:J1:119:ILE:CD1	13:J1:1001:CYC:CMA	2.81	0.57
3:M2:89:ILE:HA	3:M2:92:ARG:HB2	1.87	0.57
2:O2:31:ARG:HH22	2:O2:35:ALA:CB	2.02	0.57
3:R2:89:ILE:HA	3:R2:92:ARG:HB2	1.87	0.57
2:J3:29:ARG:HD3	2:J3:29:ARG:C	2.30	0.57
3:Z5:115:ARG:NH1	3:Z5:173:GLY:O	2.37	0.57
2:B6:29:ARG:HH12	3:C6:36:ASN:ND2	2.03	0.57
2:B6:74:GLN:OE1	2:B6:124:ASP:CB	2.52	0.57
3:G6:16:ARG:NH2	8:a8:148:LYS:CE	2.41	0.57
3:G6:154:CYS:CB	13:G6:201:CYC:CAC	2.83	0.57
2:H6:31:ARG:O	2:H6:35:ALA:N	2.37	0.57
4:N6:10:LEU:CB	4:N6:12:THR:CG2	2.62	0.57
3:X6:89:ILE:HA	3:X6:92:ARG:HB2	1.87	0.57
3:Z6:121:LEU:HD11	13:Z6:202:CYC:HAA2	1.85	0.57
2:F7:123:PHE:CE2	13:F7:1001:CYC:HAA1	2.38	0.57
2:H7:33:GLU:N	2:H7:33:GLU:OE1	2.38	0.57
2:J7:74:GLN:HA	13:J7:1001:CYC:HBD2	1.85	0.57
7:J8:87:TYR:HB3	13:J8:1001:CYC:HBB3	1.86	0.57
8:M8:72:ASN:OD1	13:M8:1001:CYC:HMD1	2.03	0.57
7:O8:79:ALA:HB2	5:AA:246:ALA:HB3	1.87	0.57
7:S8:126:VAL:H	13:S8:1001:CYC:HMC1	1.69	0.57
7:p8:81:CYS:SG	13:p8:1001:CYC:C4C	2.92	0.57
10:19:870:ALA:O	10:19:874:ASN:ND2	2.36	0.57
7:R9:64:ASP:N	7:R9:64:ASP:OD2	2.37	0.57
7:f9:65:VAL:HG12	13:f9:1001:CYC:OC	2.03	0.57
8:r9:34:THR:HG22	8:r9:37:LEU:HD11	1.86	0.57
3:GA:68:ILE:CD1	13:GA:1001:CYC:CGA	2.76	0.57
13:PA:201:CYC:HHA	13:PA:201:CYC:O2A	2.04	0.57
3:RA:152:GLY:HA3	13:RA:201:CYC:CMD	2.32	0.57
3:TA:115:ARG:NH1	3:TA:173:GLY:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UA:9:ALA:HB1	2:UA:24:GLU:HB3	1.86	0.57
3:ZA:115:ARG:NH1	3:ZA:173:GLY:O	2.37	0.57
3:T1:36:ASN:HD22	13:T1:201:CYC:HAA2	1.69	0.57
2:F2:123:PHE:CE2	13:F2:1001:CYC:HAA1	2.38	0.57
3:G2:66:GLN:HG3	7:d9:66:VAL:CG1	2.34	0.57
4:N2:47:ASP:OD1	4:N2:85:LYS:NZ	2.38	0.57
2:O2:13:ALA:HB2	2:O2:24:GLU:HG2	1.86	0.57
3:V2:43:ASN:ND2	13:V2:201:CYC:HBC1	2.19	0.57
6:A3:3:ILE:HG23	6:A3:4:PRO:HD2	1.86	0.57
6:A3:46:ILE:HG12	6:A3:72:LEU:HD12	1.86	0.57
6:A3:52:GLN:HA	6:A3:52:GLN:NE2	2.20	0.57
3:G3:66:GLN:CG	2:FA:62:GLN:HB3	2.34	0.57
3:K3:89:ILE:HA	3:K3:92:ARG:HB2	1.87	0.57
3:I4:154:CYS:C	3:I4:156:GLN:N	2.63	0.57
5:A5:106:ARG:NH2	5:A5:176:THR:HG23	2.17	0.57
3:C5:115:ARG:NH1	3:C5:173:GLY:O	2.37	0.57
3:K5:152:GLY:HA3	13:K5:201:CYC:HMA3	1.85	0.57
13:M5:1003:CYC:HB	13:M5:1003:CYC:CMA	2.18	0.57
2:O5:9:ALA:HB1	2:O5:24:GLU:HB3	1.86	0.57
3:V5:154:CYS:SG	13:V5:202:CYC:HMB3	2.34	0.57
2:W5:32:TYR:CE2	3:X5:35:GLY:HA3	2.40	0.57
2:Y5:29:ARG:HD3	3:Z5:39:LEU:HD22	1.86	0.57
3:C6:83:CYS:HB3	13:C6:201:CYC:CHD	2.35	0.57
3:I6:85:ARG:HD3	3:I6:85:ARG:C	2.29	0.57
4:N6:47:ASP:OD1	4:N6:85:LYS:NZ	2.38	0.57
6:A7:46:ILE:HG12	6:A7:72:LEU:HD12	1.86	0.57
6:A7:90:GLU:CG	2:J7:16:GLN:NE2	2.49	0.57
3:G7:86:ASP:OD1	13:G7:201:CYC:CHD	2.40	0.57
7:C8:134:LYS:HE2	7:t8:75:GLN:HE21	1.70	0.57
7:O8:52:LYS:HG2	5:AA:238:ALA:O	2.05	0.57
8:a8:77:ARG:HH12	13:b8:1001:CYC:CGD	2.13	0.57
7:e8:81:CYS:SG	13:e8:1001:CYC:C4C	2.92	0.57
8:q8:109:VAL:CG1	13:q8:1001:CYC:CAB	2.73	0.57
10:09:698:GLU:N	10:09:698:GLU:OE1	2.38	0.57
7:I9:81:CYS:SG	13:I9:1001:CYC:CAC	2.91	0.57
8:M9:34:THR:HG22	8:M9:37:LEU:HD11	1.86	0.57
11:g9:63:LEU:HB2	11:g9:66:LEU:HD23	1.84	0.57
7:i9:65:VAL:HG12	13:i9:1001:CYC:OC	2.03	0.57
8:n9:34:THR:HG22	8:n9:37:LEU:HD11	1.86	0.57
5:AA:59:HIS:CE1	3:GA:86:ASP:OD1	2.57	0.57
2:OA:29:ARG:NE	13:PA:202:CYC:OC	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RA:115:ARG:NH1	3:RA:173:GLY:O	2.37	0.57
13:RA:201:CYC:CAB	2:UA:34:ARG:HH11	2.13	0.57
1:A1:201:LEU:CG	7:c8:82:LEU:CD1	2.70	0.57
1:A1:209:THR:CG2	7:c8:66:VAL:C	2.76	0.57
2:B1:22:ASN:ND2	2:J1:150:GLU:CD	2.63	0.57
3:I1:154:CYS:C	3:I1:156:GLN:N	2.63	0.57
2:S1:85:CYS:SG	13:S1:1001:CYC:H2C	2.44	0.57
2:B2:5:PRO:HG2	2:J2:26:GLN:OE1	2.04	0.57
3:C2:83:CYS:HB3	13:C2:201:CYC:CHD	2.35	0.57
2:J2:29:ARG:HD3	2:J2:29:ARG:C	2.30	0.57
2:O2:34:ARG:HH12	13:W2:203:CYC:CBC	2.13	0.57
1:A4:205:ILE:HG21	7:V8:59:PHE:HD2	1.70	0.57
4:N4:68:THR:O	4:N4:69:VAL:C	2.47	0.57
3:T4:82:ALA:HB1	13:T4:202:CYC:C1A	2.35	0.57
2:Y4:141:HIS:ND1	2:Y4:143:LEU:CB	2.68	0.57
3:M5:93:TYR:OH	4:N5:253:ARG:NH2	2.38	0.57
4:N5:91:PHE:CE1	13:N5:301:CYC:C4B	2.88	0.57
3:P5:115:ARG:NH1	3:P5:173:GLY:O	2.38	0.57
2:Q5:34:ARG:HG2	2:Q5:34:ARG:NH1	2.16	0.57
3:T5:115:ARG:NH1	3:T5:173:GLY:O	2.37	0.57
5:A6:104:ASN:HD21	3:C6:109:ARG:HB3	1.69	0.57
13:I6:201:CYC:O2A	4:N6:267:SER:HB3	2.05	0.57
2:O6:33:GLU:N	2:O6:33:GLU:OE1	2.37	0.57
3:X6:144:ASN:HA	13:X6:202:CYC:CBB	2.33	0.57
6:A7:50:TYR:HD1	6:A7:54:PHE:HD2	1.51	0.57
3:M7:156:GLN:O	3:M7:160:GLU:HG2	2.05	0.57
7:A8:81:CYS:SG	13:A8:1001:CYC:C4C	2.92	0.57
7:A8:126:VAL:H	13:A8:1001:CYC:HMC1	1.69	0.57
7:C8:64:ASP:OD1	7:I9:69:GLY:O	2.22	0.57
8:F8:72:ASN:OD1	13:F8:1001:CYC:HMD1	2.03	0.57
7:L8:25:ARG:HD2	7:Z9:25:ARG:NH1	2.09	0.57
7:Q8:49:ARG:NH1	8:q8:115:GLU:OE2	2.37	0.57
7:V8:81:CYS:SG	13:V8:1001:CYC:C4C	2.92	0.57
8:o8:65:ASP:HB2	10:09:1128:ARG:CB	2.33	0.57
8:o8:113:LEU:CD2	13:o8:1001:CYC:HMB3	2.20	0.57
7:C9:65:VAL:HG12	13:C9:1001:CYC:OC	2.03	0.57
7:K9:121:THR:HB	13:K9:1001:CYC:HMC3	1.87	0.57
8:O9:34:THR:HG22	8:O9:37:LEU:HD11	1.86	0.57
7:Z9:65:VAL:HG12	13:Z9:1001:CYC:OC	2.03	0.57
12:m9:7:VAL:HG11	12:m9:26:ILE:HD11	1.85	0.57
8:x9:34:THR:HG22	8:x9:37:LEU:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AA:302:CYC:O2A	3:EA:85:ARG:NH1	2.38	0.57
3:EA:115:ARG:NH1	3:EA:173:GLY:O	2.37	0.57
3:XA:115:ARG:NH1	3:XA:173:GLY:O	2.38	0.57
1:A1:70:SER:HB2	13:K1:201:CYC:HMD2	1.86	0.57
2:B1:29:ARG:HH21	2:J1:34:ARG:HD3	1.68	0.57
2:D1:100:LEU:HD21	2:D1:151:ALA:HA	1.86	0.57
5:A2:174:LEU:HD12	13:G2:202:CYC:C4B	2.35	0.57
5:A2:215:ASP:CG	8:c9:68:ARG:HE	2.04	0.57
2:H2:33:GLU:N	2:H2:33:GLU:OE1	2.37	0.57
3:I2:85:ARG:NH2	4:N2:267:SER:HB2	2.19	0.57
3:V2:44:ARG:NH1	3:V2:145:ASP:HB2	2.19	0.57
6:A3:60:ILE:CG2	2:B3:115:GLY:HA2	2.35	0.57
3:G3:154:CYS:CB	13:G3:202:CYC:CAC	2.83	0.57
13:I3:201:CYC:O2A	4:N3:267:SER:HB3	2.05	0.57
4:N4:22:GLU:HG2	4:N4:147:VAL:HG22	1.86	0.57
4:N4:155:GLU:CB	4:N4:157:GLN:HE22	2.17	0.57
2:S4:119:ILE:HD13	13:S4:1001:CYC:HMA2	1.84	0.57
3:V4:83:CYS:SG	13:V4:202:CYC:C3B	2.92	0.57
5:A5:59:HIS:CE1	3:G5:86:ASP:OD1	2.57	0.57
3:C5:150:THR:OG1	13:C5:201:CYC:HAD1	2.04	0.57
3:C5:155:SER:HB2	7:u9:38:ARG:NH1	2.20	0.57
13:C5:201:CYC:CMA	13:C5:201:CYC:HB	2.18	0.57
4:N5:62:LEU:HG	4:N5:72:PHE:CE1	2.39	0.57
3:T5:89:ILE:CG1	13:T5:201:CYC:CMC	2.78	0.57
3:X5:115:ARG:NH1	3:X5:173:GLY:O	2.38	0.57
6:A7:3:ILE:HG23	6:A7:4:PRO:HD2	1.86	0.57
6:A7:52:GLN:HA	6:A7:52:GLN:NE2	2.20	0.57
6:A7:96:VAL:CG1	6:A7:105:LEU:CD2	2.79	0.57
2:B7:119:ILE:HD12	13:B7:1001:CYC:CMA	2.28	0.57
2:H7:32:TYR:N	2:H7:32:TYR:HD1	2.03	0.57
3:I7:85:ARG:HD3	3:I7:85:ARG:C	2.29	0.57
7:E8:126:VAL:H	13:E8:1001:CYC:HMC1	1.69	0.57
13:K8:1001:CYC:HBB2	9:N8:21:ARG:HG3	1.87	0.57
7:O8:60:GLN:HG2	2:BA:62:GLN:NE2	2.19	0.57
7:O8:126:VAL:H	13:O8:1001:CYC:HMC1	1.69	0.57
8:R8:72:ASN:OD1	13:R8:1001:CYC:HMD1	2.03	0.57
8:R8:84:ARG:CZ	13:R8:1001:CYC:O2A	2.46	0.57
7:S8:87:TYR:HB3	13:S8:1001:CYC:HBB3	1.86	0.57
7:e8:126:VAL:H	13:e8:1001:CYC:HMC1	1.69	0.57
9:i8:30:LYS:HA	10:09:1007:GLU:O	2.05	0.57
8:k8:111:ASN:HB3	10:09:1032:PRO:CG	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:t8:81:CYS:SG	13:t8:1001:CYC:C4C	2.92	0.57
7:t8:126:VAL:H	13:t8:1001:CYC:HMC1	1.69	0.57
10:09:1011:ARG:NH2	10:09:1075:VAL:O	2.37	0.57
9:29:23:LEU:HD12	8:U9:88:TYR:CE2	2.30	0.57
9:29:23:LEU:HD13	9:29:23:LEU:O	2.04	0.57
7:I9:121:THR:HB	13:I9:1001:CYC:HMC3	1.87	0.57
7:P9:121:THR:HB	13:P9:1001:CYC:HMC3	1.87	0.57
2:FA:32:TYR:HE1	3:GA:35:GLY:HA2	1.68	0.57
2:JA:9:ALA:HB1	2:JA:24:GLU:HB3	1.86	0.57
3:KA:115:ARG:NH1	3:KA:173:GLY:O	2.37	0.57
2:WA:32:TYR:CE2	3:XA:35:GLY:HA3	2.40	0.57
1:A1:54:PHE:O	1:A1:112:ARG:NH1	2.38	0.57
2:F1:103:GLY:O	2:L1:26:GLN:NE2	2.38	0.57
3:T1:82:ALA:HB1	13:T1:202:CYC:C1A	2.35	0.57
5:A2:104:ASN:HD21	3:C2:109:ARG:HB3	1.69	0.57
3:G2:154:CYS:SG	13:G2:201:CYC:HMC1	2.44	0.57
3:I2:89:ILE:HA	3:I2:92:ARG:HB2	1.87	0.57
3:P2:89:ILE:HA	3:P2:92:ARG:HB2	1.87	0.57
2:Q2:88:ASP:HA	13:Q2:201:CYC:CMB	2.23	0.57
2:S2:123:PHE:CE2	13:S2:1001:CYC:CAA	2.88	0.57
13:T2:201:CYC:HB	13:T2:201:CYC:CMA	2.18	0.57
3:V2:89:ILE:HA	3:V2:92:ARG:HB2	1.87	0.57
2:W2:123:PHE:CD2	13:W2:202:CYC:CAA	2.88	0.57
3:Z2:121:LEU:HD11	13:Z2:202:CYC:HAA2	1.85	0.57
3:E3:89:ILE:HA	3:E3:92:ARG:HB2	1.86	0.57
1:A4:205:ILE:CG2	7:V8:59:PHE:HD2	2.18	0.57
3:Z5:44:ARG:NH1	3:Z5:145:ASP:OD2	2.27	0.57
3:E6:150:THR:CB	13:E6:202:CYC:HAD1	2.35	0.57
3:M6:89:ILE:HA	3:M6:92:ARG:HB2	1.87	0.57
3:M6:156:GLN:O	3:M6:160:GLU:HG2	2.05	0.57
2:W6:31:ARG:NH1	2:W6:103:GLY:N	2.52	0.57
3:M7:89:ILE:HA	3:M7:92:ARG:HB2	1.87	0.57
8:K8:11:ASN:HD21	10:19:537:SER:H	1.52	0.57
7:L8:81:CYS:SG	13:L8:1001:CYC:C4C	2.92	0.57
7:O8:64:ASP:OD1	7:w9:69:GLY:HA3	2.02	0.57
7:S8:81:CYS:SG	13:S8:1001:CYC:C4C	2.92	0.57
8:d8:72:ASN:OD1	13:d8:1001:CYC:HMD1	2.03	0.57
8:d8:81:ALA:HA	8:d8:84:ARG:HG2	1.87	0.57
8:k8:72:ASN:OD1	13:k8:1001:CYC:HMD1	2.03	0.57
8:k8:114:LYS:NZ	7:C9:45:ASP:OD1	2.37	0.57
8:o8:16:GLN:HA	10:09:938:ASN:HD22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:19:273:PHE:HB3	10:19:287:VAL:HG22	1.86	0.57
7:A9:121:THR:HB	13:A9:1001:CYC:HMC3	1.87	0.57
12:V9:7:VAL:HG11	12:V9:26:ILE:HD11	1.85	0.57
7:o9:64:ASP:N	7:o9:64:ASP:OD2	2.37	0.57
3:CA:115:ARG:NH1	3:CA:173:GLY:O	2.38	0.57
2:FA:31:ARG:HH11	2:FA:103:GLY:HA3	1.69	0.57
4:NA:47:ASP:OD2	4:NA:180:ARG:NH2	2.38	0.57
2:OA:28:ALA:HA	2:OA:31:ARG:HG2	1.85	0.57
2:WA:9:ALA:HB1	2:WA:24:GLU:HB3	1.86	0.57
3:E1:76:THR:CG2	3:E1:79:ARG:HG3	2.35	0.57
3:G1:36:ASN:ND2	13:G1:201:CYC:HAA2	2.17	0.57
13:M1:202:CYC:CMA	13:M1:202:CYC:HB	2.18	0.57
13:P1:202:CYC:HB	13:P1:202:CYC:CMA	2.18	0.57
5:A2:92:GLU:HB3	2:J2:16:GLN:NE2	2.19	0.57
3:C2:89:ILE:HA	3:C2:92:ARG:HB2	1.87	0.57
3:G2:154:CYS:CB	13:G2:201:CYC:CAC	2.83	0.57
13:I2:201:CYC:O2A	4:N2:267:SER:HB3	2.04	0.57
3:K2:89:ILE:HA	3:K2:92:ARG:HB2	1.87	0.57
3:Z2:79:ARG:O	13:Z2:202:CYC:CMD	2.53	0.57
6:A3:134:GLN:O	2:B3:15:THR:O	2.23	0.57
2:B3:5:PRO:HG2	2:J3:26:GLN:OE1	2.04	0.57
3:E3:157:LEU:O	3:E3:161:VAL:CG2	2.33	0.57
2:F3:31:ARG:O	2:F3:35:ALA:N	2.35	0.57
13:I3:202:CYC:CMA	13:I3:202:CYC:HB	2.18	0.57
2:B4:22:ASN:ND2	2:J4:150:GLU:CD	2.63	0.57
3:E4:76:THR:CG2	3:E4:79:ARG:HG3	2.35	0.57
3:I4:128:VAL:HG22	13:I4:201:CYC:H3C	1.86	0.57
3:I4:153:ASP:OD1	3:I4:155:SER:OG	2.23	0.57
13:M4:202:CYC:CMA	13:M4:202:CYC:HB	2.18	0.57
13:A5:304:CYC:C1C	4:N5:226:LEU:CD1	2.83	0.57
2:J5:31:ARG:HH11	2:J5:103:GLY:HA3	0.57	0.57
3:V5:115:ARG:NH1	3:V5:173:GLY:O	2.38	0.57
3:G6:154:CYS:SG	13:G6:201:CYC:HMC1	2.44	0.57
3:I6:85:ARG:HH22	4:N6:267:SER:CB	2.18	0.57
3:K6:73:ASN:HD22	3:K6:123:THR:HA	1.70	0.57
3:P6:89:ILE:HA	3:P6:92:ARG:HB2	1.87	0.57
2:W6:31:ARG:HH11	2:W6:103:GLY:N	2.03	0.57
13:W6:201:CYC:CMA	13:W6:201:CYC:HB	2.18	0.57
3:X6:144:ASN:CA	13:X6:202:CYC:HBB1	2.34	0.57
3:Z6:82:ALA:HB3	13:Z6:202:CYC:CMD	2.34	0.57
6:A7:97:ALA:HB3	6:A7:136:LEU:CD1	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E7:89:ILE:HA	3:E7:92:ARG:HB2	1.87	0.57
13:M7:201:CYC:CMA	13:M7:201:CYC:HB	2.18	0.57
7:C8:16:ARG:O	8:D8:95:TYR:OH	2.23	0.57
7:H8:155:TYR:HB2	7:X9:20:PRO:CD	2.35	0.57
8:K8:88:TYR:OH	9:N8:19:THR:O	2.17	0.57
7:Q8:87:TYR:HB3	13:Q8:1001:CYC:HBB3	1.86	0.57
7:j8:81:CYS:SG	13:j8:1001:CYC:C4C	2.92	0.57
8:o8:66:ILE:HG22	10:09:1128:ARG:H	1.69	0.57
8:o8:82:CYS:CA	13:o8:1001:CYC:HAC2	2.34	0.57
7:p8:126:VAL:H	13:p8:1001:CYC:HMC1	1.69	0.57
8:u8:72:ASN:OD1	13:19:1201:CYC:HMD1	2.03	0.57
8:D9:34:THR:HG22	8:D9:37:LEU:HD11	1.86	0.57
7:N9:65:VAL:HG12	13:N9:1001:CYC:OC	2.03	0.57
8:W9:34:THR:HG22	8:W9:37:LEU:HD11	1.86	0.57
7:d9:64:ASP:N	7:d9:64:ASP:OD2	2.37	0.57
7:f9:5:THR:HG23	11:g9:3:ASP:HB2	1.87	0.57
7:o9:52:LYS:HG3	5:AA:194:TRP:CZ3	2.39	0.57
7:w9:121:THR:HB	13:w9:1001:CYC:HMC3	1.87	0.57
3:MA:115:ARG:NH1	3:MA:173:GLY:O	2.37	0.57
4:NA:62:LEU:CD2	4:NA:72:PHE:CB	2.78	0.57
3:I1:153:ASP:OD1	3:I1:155:SER:OG	2.23	0.56
3:P1:73:ASN:O	3:P1:79:ARG:HD2	2.04	0.56
13:T1:201:CYC:CMA	13:T1:201:CYC:HB	2.18	0.56
3:E2:89:ILE:HA	3:E2:92:ARG:HB2	1.87	0.56
3:G2:89:ILE:HA	3:G2:92:ARG:HB2	1.87	0.56
3:M2:167:ARG:HH12	3:R2:115:ARG:HH22	1.51	0.56
3:Z2:89:ILE:HA	3:Z2:92:ARG:HB2	1.87	0.56
3:E3:150:THR:CB	13:E3:202:CYC:HAD1	2.35	0.56
3:G3:154:CYS:SG	13:G3:202:CYC:HMC1	2.44	0.56
3:I3:85:ARG:HH22	4:N3:267:SER:CB	2.18	0.56
1:A4:148:GLU:OE2	1:A4:162:ARG:NH1	2.36	0.56
1:A4:191:ILE:HG21	8:a8:68:ARG:CZ	2.34	0.56
1:A4:205:ILE:HG21	7:V8:59:PHE:CD2	2.39	0.56
3:E4:154:CYS:SG	13:E4:202:CYC:HAC2	2.45	0.56
13:P4:201:CYC:HMA2	13:P4:201:CYC:HB	1.69	0.56
13:Q4:202:CYC:HBC2	3:R4:154:CYS:SG	2.45	0.56
3:I5:128:VAL:HG22	13:I5:201:CYC:CMC	2.35	0.56
4:N5:62:LEU:HD21	4:N5:72:PHE:HD1	0.80	0.56
2:O5:29:ARG:NE	13:P5:202:CYC:OC	2.38	0.56
2:O5:61:TYR:HH	2:O5:85:CYS:HG	1.52	0.56
3:R5:154:CYS:CB	13:R5:201:CYC:H2C	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:R5:201:CYC:CMA	13:R5:201:CYC:HB	2.18	0.56
5:A6:248:PRO:HD2	8:B8:63:TYR:HE1	1.68	0.56
2:B6:5:PRO:HG2	2:J6:26:GLN:OE1	2.04	0.56
3:K6:89:ILE:HA	3:K6:92:ARG:HB2	1.87	0.56
2:Q6:31:ARG:HH21	2:Q6:35:ALA:HB2	0.49	0.56
2:U6:29:ARG:HG2	13:V6:201:CYC:OC	2.06	0.56
3:V6:154:CYS:SG	13:V6:201:CYC:HAB1	2.43	0.56
2:B7:31:ARG:HD3	2:B7:31:ARG:O	2.05	0.56
3:G7:154:CYS:SG	13:G7:202:CYC:HMC1	2.44	0.56
13:I7:202:CYC:CMA	13:I7:202:CYC:HB	2.18	0.56
9:U8:8:THR:HB	9:U8:53:LYS:HB2	1.86	0.56
9:i8:30:LYS:HB2	10:09:1012:GLU:OE2	2.05	0.56
10:09:17:TYR:HE2	8:M9:7:THR:HG23	1.70	0.56
7:N9:121:THR:HB	13:N9:1001:CYC:HMC3	1.87	0.56
7:s9:121:THR:HB	13:s9:1001:CYC:HMC3	1.87	0.56
8:v9:34:THR:HG22	8:v9:37:LEU:HD11	1.86	0.56
7:w9:64:ASP:N	7:w9:64:ASP:OD2	2.37	0.56
3:CA:150:THR:OG1	13:CA:201:CYC:HAD1	2.04	0.56
4:N1:22:GLU:HG2	4:N1:147:VAL:HG22	1.86	0.56
13:P1:201:CYC:HMA2	13:P1:201:CYC:HB	1.69	0.56
2:Q1:143:LEU:HD23	2:Q1:148:ALA:HA	1.88	0.56
13:Q1:202:CYC:CMA	13:Q1:202:CYC:HB	2.18	0.56
13:Q1:202:CYC:HBC2	3:R1:154:CYS:SG	2.45	0.56
2:D2:34:ARG:HH21	13:I2:202:CYC:H2C	1.69	0.56
3:P2:34:GLU:HA	3:P2:37:LYS:HZ2	1.71	0.56
2:Q2:33:GLU:N	2:Q2:33:GLU:OE1	2.39	0.56
3:V2:44:ARG:CZ	3:V2:149:ILE:HG13	2.35	0.56
13:V2:201:CYC:CMA	13:V2:201:CYC:HB	2.18	0.56
3:X2:73:ASN:ND2	3:X2:123:THR:CA	2.67	0.56
3:E3:76:THR:HG22	3:E3:79:ARG:HD2	1.87	0.56
1:A4:56:GLU:O	1:A4:59:ILE:CG1	2.48	0.56
1:A4:195:ILE:HG12	7:V8:83:ARG:CZ	2.34	0.56
2:J4:91:HIS:HB2	13:J4:1001:CYC:HMB3	1.86	0.56
3:Z4:85:ARG:O	3:Z4:89:ILE:HG12	2.05	0.56
3:Z4:108:ASP:OD1	3:Z4:108:ASP:N	2.34	0.56
13:A5:302:CYC:O2A	3:E5:85:ARG:NH1	2.38	0.56
3:G5:115:ARG:NH1	3:G5:173:GLY:O	2.38	0.56
3:M5:74:ALA:HB2	13:M5:1002:CYC:OC	2.04	0.56
4:N5:22:GLU:HA	4:N5:22:GLU:OE2	2.03	0.56
4:N5:62:LEU:CD2	4:N5:72:PHE:CB	2.78	0.56
13:K6:201:CYC:CMA	13:K6:201:CYC:HB	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M6:167:ARG:HH12	3:R6:115:ARG:HH22	1.51	0.56
13:N6:302:CYC:O2A	3:T6:121:LEU:HD22	2.05	0.56
2:O6:31:ARG:CD	2:O6:35:ALA:HB2	2.34	0.56
2:Q6:153:THR:HG21	3:V6:43:ASN:HD21	1.70	0.56
2:S6:123:PHE:CE2	13:S6:1001:CYC:CAA	2.88	0.56
3:V6:128:VAL:HG22	13:V6:202:CYC:CMB	2.28	0.56
2:Y6:123:PHE:CE2	13:Y6:201:CYC:CAA	2.87	0.56
13:Z6:201:CYC:CMA	13:Z6:201:CYC:HB	2.18	0.56
7:C8:126:VAL:H	13:C8:1001:CYC:HMC1	1.69	0.56
7:E8:44:THR:HG22	8:F8:19:TYR:CB	2.35	0.56
7:E8:69:GLY:HA3	7:E9:60:GLN:HG2	1.87	0.56
9:G8:24:GLN:NE2	10:09:658:ASP:OD1	2.38	0.56
7:J8:126:VAL:H	13:J8:1001:CYC:HMC1	1.69	0.56
9:N8:8:THR:HB	9:N8:53:LYS:HB2	1.86	0.56
7:X8:87:TYR:HB3	13:X8:1001:CYC:HBB3	1.86	0.56
8:h8:119:SER:OG	9:i8:56:LEU:HB2	2.04	0.56
8:m8:116:THR:N	10:09:1103:LEU:HD21	2.20	0.56
9:29:4:LEU:N	9:29:58:THR:OG1	2.38	0.56
9:29:41:GLN:NE2	13:29:1001:CYC:HMA1	2.19	0.56
7:G9:64:ASP:N	7:G9:64:ASP:OD2	2.37	0.56
8:J9:106:ASP:OD2	8:M9:114:LYS:NZ	2.37	0.56
7:P9:64:ASP:N	7:P9:64:ASP:OD2	2.37	0.56
7:o9:65:VAL:HG12	13:o9:1001:CYC:OC	2.03	0.56
5:AA:17:VAL:HG13	3:EA:85:ARG:CD	2.35	0.56
3:GA:115:ARG:NH1	3:GA:173:GLY:O	2.38	0.56
13:PA:201:CYC:HMA2	13:PA:201:CYC:HB	1.69	0.56
13:RA:201:CYC:CMA	13:RA:201:CYC:HB	2.18	0.56
2:SA:9:ALA:HB1	2:SA:24:GLU:HB3	1.86	0.56
1:A1:212:PHE:CB	7:l8:67:SER:HA	2.36	0.56
13:C1:302:CYC:CMA	13:C1:302:CYC:HB	2.18	0.56
3:E1:154:CYS:SG	13:E1:202:CYC:HAC2	2.45	0.56
3:I1:128:VAL:HG22	13:I1:201:CYC:H3C	1.86	0.56
5:A2:19:SER:HB2	5:A2:165:LYS:HZ2	1.70	0.56
5:A2:219:PHE:CZ	7:X9:86:ASP:OD2	2.51	0.56
13:E2:202:CYC:CMA	13:E2:202:CYC:HB	2.18	0.56
3:I2:85:ARG:HH22	4:N2:267:SER:CB	2.18	0.56
4:N2:206:SER:HG	4:N2:212:TRP:CD1	2.23	0.56
13:N2:302:CYC:C2B	3:T2:83:CYS:HB3	2.35	0.56
3:P2:38:ARG:HG2	3:P2:157:LEU:HD13	1.86	0.56
2:U2:29:ARG:HG2	13:V2:201:CYC:OC	2.06	0.56
13:U2:201:CYC:HB	13:U2:201:CYC:CMA	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W2:31:ARG:HH11	2:W2:103:GLY:N	2.02	0.56
2:Y2:31:ARG:O	2:Y2:35:ALA:N	2.37	0.56
13:Z2:201:CYC:CMA	13:Z2:201:CYC:HB	2.18	0.56
6:A3:104:ARG:HD3	6:A3:104:ARG:O	2.05	0.56
2:B3:31:ARG:HD3	2:B3:31:ARG:O	2.05	0.56
2:H3:33:GLU:N	2:H3:33:GLU:OE1	2.38	0.56
13:K3:201:CYC:CMA	13:K3:201:CYC:HB	2.18	0.56
3:M3:38:ARG:NH2	3:M3:101:GLY:HA2	2.18	0.56
3:M3:156:GLN:O	3:M3:160:GLU:HG2	2.05	0.56
2:B4:87:ARG:CA	8:W8:23:ALA:HB2	2.33	0.56
2:F4:103:GLY:O	2:L4:26:GLN:NE2	2.38	0.56
4:N4:235:ARG:HB2	4:N4:263:TYR:HB2	1.87	0.56
2:O4:143:LEU:HD23	2:O4:148:ALA:HA	1.88	0.56
3:P4:154:CYS:SG	13:P4:202:CYC:HAB1	2.45	0.56
13:Z4:201:CYC:CMA	13:Z4:201:CYC:HB	2.19	0.56
5:A5:174:LEU:HB3	13:A5:303:CYC:OB	2.05	0.56
5:A5:219:PHE:CE2	7:q9:83:ARG:HA	2.39	0.56
5:A5:239:PHE:CA	7:A9:52:LYS:CE	2.75	0.56
2:D5:6:ILE:HG13	2:D5:31:ARG:HD2	1.86	0.56
2:D5:31:ARG:HH11	2:D5:103:GLY:HA3	1.70	0.56
2:F5:62:GLN:O	3:G7:66:GLN:CB	2.46	0.56
13:G5:201:CYC:CMA	13:G5:201:CYC:HB	2.19	0.56
2:L5:33:GLU:OE1	2:L5:33:GLU:HA	2.06	0.56
2:Q5:9:ALA:HB1	2:Q5:24:GLU:HB3	1.86	0.56
2:S5:34:ARG:CD	2:S5:150:GLU:OE2	2.51	0.56
2:U5:9:ALA:HB1	2:U5:24:GLU:HB3	1.86	0.56
13:V5:202:CYC:HB	13:V5:202:CYC:CMA	2.18	0.56
5:A6:99:VAL:HA	5:A6:107:LEU:HD21	1.88	0.56
2:H6:91:HIS:HB2	13:H6:1001:CYC:HMB2	1.86	0.56
3:I6:85:ARG:NH2	4:N6:267:SER:HB2	2.19	0.56
3:I6:115:ARG:NH2	4:N6:9:ARG:HH11	2.04	0.56
2:O6:30:GLY:HA2	2:W6:30:GLY:HA2	1.86	0.56
3:P6:37:LYS:HB2	3:P6:157:LEU:CD1	2.35	0.56
2:U6:61:TYR:HH	2:U6:85:CYS:HG	1.53	0.56
3:X6:73:ASN:ND2	3:X6:123:THR:CA	2.67	0.56
2:Y6:31:ARG:CD	2:Y6:35:ALA:HB2	2.34	0.56
6:A7:113:PHE:O	6:A7:153:PHE:CE1	2.58	0.56
6:A7:134:GLN:O	2:B7:15:THR:O	2.23	0.56
2:B7:5:PRO:HG2	2:J7:26:GLN:OE1	2.04	0.56
3:C7:89:ILE:HA	3:C7:92:ARG:HB2	1.87	0.56
3:C7:154:CYS:CB	13:C7:201:CYC:HBC1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G7:154:CYS:CB	13:G7:202:CYC:CAC	2.83	0.56
3:I7:87:MET:CE	13:I7:201:CYC:HBC2	1.93	0.56
2:J7:29:ARG:HD3	2:J7:29:ARG:C	2.30	0.56
3:K7:73:ASN:HD22	3:K7:123:THR:HA	1.70	0.56
13:B8:1001:CYC:CMA	10:09:572:ILE:HG22	2.33	0.56
9:N8:30:LYS:CB	10:19:578:GLU:O	2.53	0.56
7:Q8:63:PRO:HB3	10:19:1126:THR:CG2	2.21	0.56
7:c8:87:TYR:HB3	13:c8:1001:CYC:HBB3	1.86	0.56
7:n8:15:ALA:HB3	10:09:989:GLN:HG3	1.81	0.56
7:n8:125:ALA:CB	13:n8:1001:CYC:HMC2	2.33	0.56
7:r8:87:TYR:HB3	13:r8:1001:CYC:HBB3	1.86	0.56
8:s8:144:ALA:HB3	8:O9:29:LYS:HZ2	0.74	0.56
10:19:732:VAL:CG1	9:49:24:GLN:HE22	2.15	0.56
10:19:986:PHE:CZ	13:19:1201:CYC:HBA1	2.41	0.56
9:39:4:LEU:N	9:39:58:THR:OG1	2.38	0.56
9:49:10:LEU:CD1	9:49:26:THR:C	2.78	0.56
7:C9:64:ASP:N	7:C9:64:ASP:OD2	2.37	0.56
7:E9:121:THR:HB	13:E9:1001:CYC:HMC3	1.87	0.56
8:U9:34:THR:HG22	8:U9:37:LEU:HD11	1.86	0.56
8:a9:34:THR:HG22	8:a9:37:LEU:HD11	1.86	0.56
7:u9:65:VAL:HG12	13:u9:1001:CYC:OC	2.03	0.56
7:w9:79:ALA:HB1	5:AA:216:PRO:O	2.06	0.56
7:y9:65:VAL:HG12	13:y9:1001:CYC:OC	2.03	0.56
7:y9:121:THR:HB	13:y9:1001:CYC:HMC3	1.87	0.56
2:DA:31:ARG:HH11	2:DA:103:GLY:HA3	1.70	0.56
2:LA:5:PRO:HG2	2:LA:31:ARG:HD2	1.86	0.56
4:NA:91:PHE:CE1	13:NA:301:CYC:C4B	2.88	0.56
4:NA:235:ARG:HB2	4:NA:263:TYR:HB2	1.86	0.56
13:PA:202:CYC:CMA	13:PA:202:CYC:HB	2.18	0.56
13:K1:201:CYC:CMA	13:K1:201:CYC:HB	2.19	0.56
2:O1:143:LEU:HD23	2:O1:148:ALA:HA	1.88	0.56
3:P1:154:CYS:SG	13:P1:202:CYC:HAB1	2.45	0.56
2:Y1:141:HIS:ND1	2:Y1:143:LEU:CB	2.68	0.56
5:A2:12:SER:OG	13:E2:201:CYC:C3B	2.53	0.56
2:B2:31:ARG:NH1	2:B2:102:ALA:C	2.63	0.56
3:C2:154:CYS:CB	13:C2:202:CYC:HBC1	2.35	0.56
2:H2:32:TYR:N	2:H2:32:TYR:HD1	2.03	0.56
2:O2:31:ARG:CD	2:O2:35:ALA:HB2	2.34	0.56
3:V2:154:CYS:SG	13:V2:201:CYC:HAB1	2.43	0.56
6:A3:13:GLN:HB3	6:A3:119:TYR:CE2	2.30	0.56
13:C3:201:CYC:CMA	13:C3:201:CYC:HB	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G3:66:GLN:HG3	2:FA:62:GLN:CB	2.35	0.56
2:D4:100:LEU:HD21	2:D4:151:ALA:HA	1.86	0.56
4:N4:21:VAL:CG2	4:N4:148:VAL:HG12	2.36	0.56
2:Q4:143:LEU:HD23	2:Q4:148:ALA:HA	1.88	0.56
5:A5:201:PHE:HE1	8:z9:63:TYR:CG	2.15	0.56
2:D5:9:ALA:HB1	2:D5:24:GLU:HB3	1.86	0.56
13:I5:202:CYC:CMA	13:I5:202:CYC:HB	2.18	0.56
2:J5:9:ALA:HB1	2:J5:24:GLU:HB3	1.86	0.56
2:L5:32:TYR:CD1	3:M5:35:GLY:CA	2.58	0.56
2:B6:31:ARG:HD3	2:B6:31:ARG:O	2.05	0.56
2:H6:32:TYR:N	2:H6:32:TYR:HD1	2.03	0.56
3:R6:41:VAL:CG2	13:U6:201:CYC:HAC1	2.36	0.56
2:S6:32:TYR:CD1	3:T6:35:GLY:HA3	2.41	0.56
2:W6:92:TYR:HE2	13:W6:202:CYC:HMB2	1.71	0.56
13:X6:202:CYC:CMA	13:X6:202:CYC:HB	2.19	0.56
3:E7:150:THR:CB	13:E7:202:CYC:HAD1	2.35	0.56
13:G7:202:CYC:CMA	13:G7:202:CYC:HB	2.19	0.56
3:I7:89:ILE:HA	3:I7:92:ARG:HB2	1.87	0.56
2:L7:22:ASN:O	2:L7:26:GLN:HG3	2.06	0.56
7:O8:87:TYR:HB3	13:O8:1001:CYC:HBB3	1.86	0.56
7:Q8:81:CYS:SG	13:Q8:1001:CYC:C4C	2.92	0.56
7:n8:87:TYR:HB3	13:n8:1001:CYC:HBB3	1.86	0.56
7:A9:65:VAL:HG12	13:A9:1001:CYC:OC	2.03	0.56
8:H9:34:THR:HG22	8:H9:37:LEU:HD11	1.86	0.56
7:k9:65:VAL:HG12	13:k9:1001:CYC:OC	2.03	0.56
12:m9:118:SER:OG	12:m9:118:SER:O	2.23	0.56
13:EA:201:CYC:HB	13:EA:201:CYC:CMA	2.19	0.56
2:HA:34:ARG:HE	2:HA:150:GLU:CD	2.12	0.56
13:KA:201:CYC:CMA	13:KA:201:CYC:HB	2.19	0.56
4:NA:24:ARG:NH2	3:XA:93:TYR:OH	2.39	0.56
2:QA:9:ALA:HB1	2:QA:24:GLU:HB3	1.86	0.56
13:E1:202:CYC:CMA	13:E1:202:CYC:HB	2.18	0.56
13:K1:202:CYC:CMA	13:K1:202:CYC:HB	2.19	0.56
3:R1:75:TYR:OH	2:S1:94:ARG:NH1	2.38	0.56
2:S1:119:ILE:CD1	13:S1:1001:CYC:HMA2	2.36	0.56
3:V1:127:SER:HB3	13:V1:202:CYC:CBB	2.03	0.56
2:Y1:141:HIS:HE1	2:Y1:143:LEU:HB3	1.69	0.56
5:A2:230:GLY:H	7:X9:66:VAL:HB	1.70	0.56
3:E2:76:THR:HG22	3:E2:79:ARG:HD2	1.87	0.56
13:G2:201:CYC:CMA	13:G2:201:CYC:HB	2.19	0.56
13:W2:201:CYC:CMA	13:W2:201:CYC:HB	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:W2:203:CYC:CMA	13:W2:203:CYC:HB	2.19	0.56
13:E4:202:CYC:CMA	13:E4:202:CYC:HB	2.18	0.56
13:P4:201:CYC:CMD	13:P4:201:CYC:HC	2.19	0.56
3:Z4:83:CYS:SG	13:Z4:202:CYC:C4C	2.94	0.56
3:I5:40:ASP:OD2	3:I5:40:ASP:N	2.39	0.56
13:K5:201:CYC:CMA	13:K5:201:CYC:HB	2.19	0.56
5:A6:248:PRO:O	8:B8:63:TYR:HD1	1.89	0.56
3:C6:76:THR:OG1	3:C6:77:ASN:N	2.39	0.56
2:D6:34:ARG:HH21	13:I6:202:CYC:H2C	1.69	0.56
3:G6:76:THR:OG1	3:G6:77:ASN:N	2.39	0.56
2:J6:29:ARG:HD3	2:J6:29:ARG:C	2.30	0.56
13:N6:302:CYC:CMA	3:T6:82:ALA:HB3	2.35	0.56
3:R6:89:ILE:HA	3:R6:92:ARG:HB2	1.86	0.56
13:T6:201:CYC:C3B	2:Y6:34:ARG:CZ	2.84	0.56
6:A7:93:ARG:O	6:A7:98:ASP:OD1	2.23	0.56
8:m8:116:THR:CB	10:09:1103:LEU:HD21	2.35	0.56
10:09:949:VAL:HG21	13:09:1201:CYC:O1A	2.05	0.56
8:M9:75:THR:HG23	7:N9:107:ILE:HA	1.88	0.56
7:f9:86:ASP:OD1	11:g9:18:TYR:OH	2.17	0.56
8:r9:77:ARG:HB3	7:s9:110:ILE:HG23	1.87	0.56
5:AA:178:ARG:NH2	13:AA:303:CYC:CGD	2.61	0.56
13:GA:1002:CYC:HB	13:GA:1002:CYC:CMA	2.18	0.56
2:LA:33:GLU:HA	2:LA:33:GLU:OE1	2.05	0.56
13:MA:1003:CYC:CMA	13:MA:1003:CYC:HB	2.18	0.56
4:NA:4:THR:HG22	4:NA:5:THR:HG23	1.88	0.56
2:WA:31:ARG:HH11	2:WA:103:GLY:CA	2.10	0.56
2:D1:91:HIS:HB3	13:D1:1001:CYC:CBB	2.36	0.56
2:W1:119:ILE:HD11	13:W1:1001:CYC:HAA1	1.86	0.56
3:E2:150:THR:CB	13:E2:202:CYC:HAD1	2.35	0.56
3:K2:144:ASN:HB2	3:K2:158:ILE:HD13	1.88	0.56
13:K2:201:CYC:CMA	13:K2:201:CYC:HB	2.19	0.56
13:K2:202:CYC:CMA	13:K2:202:CYC:HB	2.19	0.56
2:L2:33:GLU:HA	2:L2:33:GLU:OE1	2.06	0.56
3:R2:41:VAL:CG2	13:U2:201:CYC:HAC1	2.36	0.56
13:T2:201:CYC:C3B	2:Y2:34:ARG:CZ	2.84	0.56
3:C3:89:ILE:HA	3:C3:92:ARG:HB2	1.87	0.56
3:I3:116:GLU:HG2	4:N3:282:SER:HA	1.86	0.56
1:A4:177:TYR:HE2	13:G4:202:CYC:O2D	1.88	0.56
13:C4:302:CYC:CMA	13:C4:302:CYC:HB	2.18	0.56
4:N4:155:GLU:HB2	4:N4:157:GLN:HE22	1.70	0.56
4:N4:155:GLU:H	4:N4:157:GLN:HE22	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S4:141:HIS:CE1	2:S4:143:LEU:CB	2.89	0.56
13:T4:201:CYC:HB	13:T4:201:CYC:CMA	2.18	0.56
13:X4:202:CYC:CMA	13:X4:202:CYC:HB	2.19	0.56
5:A5:75:LYS:CE	13:A5:304:CYC:O1D	2.52	0.56
2:B5:9:ALA:HB1	2:B5:24:GLU:HB3	1.86	0.56
3:M5:83:CYS:CB	13:M5:1002:CYC:HAC2	2.36	0.56
13:P5:201:CYC:CMD	13:P5:201:CYC:HC	2.19	0.56
5:A6:12:SER:OG	13:E6:201:CYC:C3B	2.53	0.56
3:K6:117:THR:O	3:K6:121:LEU:HB2	2.04	0.56
3:Z6:79:ARG:O	13:Z6:202:CYC:CMD	2.53	0.56
3:K7:89:ILE:HA	3:K7:92:ARG:HB2	1.86	0.56
13:B8:1001:CYC:HMA1	10:09:572:ILE:HG22	1.88	0.56
7:J8:134:LYS:HE2	7:n8:75:GLN:HE21	1.70	0.56
7:L8:25:ARG:HD2	7:Z9:25:ARG:CZ	2.33	0.56
7:O8:67:SER:OG	5:AA:231:ASN:HB3	2.05	0.56
7:g8:126:VAL:H	13:g8:1001:CYC:HMC1	1.69	0.56
10:09:698:GLU:C	10:09:700:GLY:N	2.61	0.56
10:19:998:GLU:HG3	10:19:999:LEU:N	2.21	0.56
8:U9:76:THR:HG23	12:V9:111:GLY:H	1.71	0.56
12:V9:113:ARG:O	12:V9:117:ASN:HB2	2.06	0.56
7:X9:64:ASP:OD2	7:X9:64:ASP:N	2.37	0.56
7:f9:64:ASP:N	7:f9:64:ASP:OD2	2.37	0.56
7:u9:121:THR:HB	13:u9:1001:CYC:HMC3	1.87	0.56
2:DA:6:ILE:HG13	2:DA:31:ARG:HD2	1.86	0.56
3:EA:40:ASP:OD2	3:EA:40:ASP:N	2.39	0.56
3:EA:152:GLY:N	13:EA:201:CYC:HMD1	2.21	0.56
2:HA:9:ALA:HB1	2:HA:24:GLU:HB3	1.86	0.56
1:A1:164:ARG:HH21	1:A1:169:PRO:HD3	1.70	0.56
2:B1:138:LYS:O	2:B1:141:HIS:NE2	2.38	0.56
2:J1:91:HIS:HB2	13:J1:1001:CYC:HMB3	1.86	0.56
2:O1:85:CYS:SG	13:O1:1001:CYC:CAC	2.94	0.56
13:P1:201:CYC:HC	13:P1:201:CYC:CMD	2.19	0.56
13:X1:202:CYC:HB	13:X1:202:CYC:CMA	2.19	0.56
3:Z1:83:CYS:SG	13:Z1:202:CYC:C4C	2.94	0.56
3:E2:38:ARG:HD3	3:E2:98:ILE:O	2.06	0.56
3:G2:16:ARG:NH2	8:h8:148:LYS:CE	2.45	0.56
3:I2:115:ARG:NH2	4:N2:9:ARG:HH11	2.04	0.56
13:I2:202:CYC:CMA	13:I2:202:CYC:HB	2.19	0.56
2:L2:29:ARG:HD2	13:M2:201:CYC:OC	2.06	0.56
2:O2:30:GLY:HA2	2:W2:30:GLY:HA2	1.86	0.56
13:P2:201:CYC:HB	13:P2:201:CYC:CMA	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T2:89:ILE:HA	3:T2:92:ARG:HB2	1.87	0.56
6:A3:153:PHE:HD1	6:A3:159:PRO:HA	1.70	0.56
3:C3:75:TYR:HH	2:D3:94:ARG:NH1	2.04	0.56
2:B4:138:LYS:O	2:B4:141:HIS:NE2	2.39	0.56
2:D4:91:HIS:HB3	13:D4:1001:CYC:CBB	2.36	0.56
13:A5:304:CYC:CBC	3:K5:114:LEU:HD13	2.36	0.56
2:H5:9:ALA:HB1	2:H5:24:GLU:HB3	1.86	0.56
13:X5:202:CYC:CMA	13:X5:202:CYC:HB	2.19	0.56
13:E6:202:CYC:CMA	13:E6:202:CYC:HB	2.18	0.56
13:K6:202:CYC:HB	13:K6:202:CYC:CMA	2.19	0.56
2:L6:33:GLU:HA	2:L6:33:GLU:OE1	2.06	0.56
3:T6:38:ARG:HG3	3:T6:157:LEU:HD21	1.88	0.56
3:V6:150:THR:HG1	13:V6:201:CYC:C2A	2.19	0.56
3:Z6:37:LYS:CB	3:Z6:157:LEU:HD11	2.36	0.56
2:D7:29:ARG:HB2	13:E7:202:CYC:CBB	2.36	0.56
13:K7:202:CYC:CMA	13:K7:202:CYC:HB	2.19	0.56
8:T8:77:ARG:HH12	13:T8:1001:CYC:CGD	2.13	0.56
13:Y8:1001:CYC:HBB2	9:b8:21:ARG:HG3	1.88	0.56
7:e8:87:TYR:HB3	13:e8:1001:CYC:HBB3	1.86	0.56
7:e8:125:ALA:CB	13:e8:1001:CYC:HMC2	2.33	0.56
7:j8:126:VAL:H	13:j8:1001:CYC:HMC1	1.69	0.56
8:u8:15:VAL:CG2	10:19:944:SER:CB	2.82	0.56
10:19:954:ARG:NH2	10:19:955:LYS:HB3	2.20	0.56
8:j9:34:THR:HG22	8:j9:37:LEU:HD11	1.86	0.56
5:AA:231:ASN:OD1	5:AA:232:TYR:O	2.23	0.56
13:AA:304:CYC:C1C	4:NA:226:LEU:CD1	2.83	0.56
3:KA:53:VAL:HG21	3:KA:88:GLU:HB3	1.88	0.56
3:PA:53:VAL:HG21	3:PA:88:GLU:HB3	1.88	0.56
3:PA:144:ASN:C	13:PA:202:CYC:HBB1	2.31	0.56
1:A1:152:ASN:OD1	1:A1:162:ARG:NH2	2.37	0.56
2:S1:141:HIS:CE1	2:S1:143:LEU:CB	2.89	0.56
13:Z1:201:CYC:CMA	13:Z1:201:CYC:HB	2.19	0.56
2:B2:31:ARG:O	2:B2:31:ARG:HD3	2.05	0.56
2:D2:34:ARG:HH12	2:D2:146:GLN:CD	2.10	0.56
3:M2:156:GLN:O	3:M2:160:GLU:HG2	2.05	0.56
3:P2:43:ASN:HD21	13:W2:201:CYC:HBC1	1.65	0.56
2:Q2:153:THR:HG21	3:V2:43:ASN:HD21	1.70	0.56
6:A3:93:ARG:O	6:A3:98:ASP:OD1	2.23	0.56
2:H3:32:TYR:N	2:H3:32:TYR:HD1	2.03	0.56
3:I3:89:ILE:HA	3:I3:92:ARG:HB2	1.87	0.56
2:L3:29:ARG:CD	13:M3:201:CYC:OC	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M3:89:ILE:HA	3:M3:92:ARG:HB2	1.87	0.56
3:P4:77:ASN:ND2	2:Q4:116:LEU:N	2.53	0.56
2:S4:119:ILE:CD1	13:S4:1001:CYC:HMA2	2.36	0.56
3:V4:39:LEU:HD13	13:V4:201:CYC:HMC3	1.88	0.56
13:V4:201:CYC:CMA	13:V4:201:CYC:HB	2.18	0.56
5:A5:239:PHE:HE2	7:A9:52:LYS:HB3	1.68	0.56
3:M5:85:ARG:HD3	4:N5:249:TYR:HB2	1.88	0.56
3:V5:53:VAL:HG21	3:V5:88:GLU:HB3	1.88	0.56
3:C6:154:CYS:CB	13:C6:202:CYC:HBC1	2.35	0.56
3:E6:76:THR:HG22	3:E6:79:ARG:HD2	1.87	0.56
3:E6:89:ILE:HA	3:E6:92:ARG:HB2	1.86	0.56
3:G6:89:ILE:HA	3:G6:92:ARG:HB2	1.87	0.56
13:G6:201:CYC:CMA	13:G6:201:CYC:HB	2.19	0.56
13:I6:202:CYC:CMA	13:I6:202:CYC:HB	2.18	0.56
2:S6:104:GLY:HA2	2:Y6:23:THR:HB	1.87	0.56
13:T6:201:CYC:HAB1	2:Y6:34:ARG:HH12	1.69	0.56
13:T6:201:CYC:HB	13:T6:201:CYC:CMA	2.18	0.56
2:Y6:76:ALA:N	13:Y6:201:CYC:OC	2.39	0.56
3:C7:152:GLY:CA	13:C7:201:CYC:HMD2	2.28	0.56
13:E7:202:CYC:CMA	13:E7:202:CYC:HB	2.18	0.56
7:E8:125:ALA:CB	13:E8:1001:CYC:HMC2	2.33	0.56
8:P8:77:ARG:HH12	13:P8:1001:CYC:CGD	2.13	0.56
10:19:704:GLU:OE2	10:19:706:ARG:NE	2.39	0.56
7:b9:121:THR:HB	13:b9:1001:CYC:HMC3	1.87	0.56
2:DA:9:ALA:HB1	2:DA:24:GLU:HB3	1.86	0.56
13:IA:202:CYC:CMA	13:IA:202:CYC:HB	2.19	0.56
13:PA:201:CYC:HB	13:PA:201:CYC:CMA	2.19	0.56
13:TA:202:CYC:CMA	13:TA:202:CYC:HB	2.18	0.56
13:VA:202:CYC:CMA	13:VA:202:CYC:HB	2.18	0.56
1:A1:195:ILE:O	7:c8:79:ALA:HB1	2.06	0.56
3:Z1:85:ARG:O	3:Z1:89:ILE:HG12	2.06	0.56
13:N2:302:CYC:O2A	3:T2:121:LEU:HD22	2.05	0.56
3:T2:153:ASP:OD1	3:T2:153:ASP:N	2.39	0.56
3:X2:89:ILE:HA	3:X2:92:ARG:HB2	1.87	0.56
2:Y2:76:ALA:N	13:Y2:201:CYC:OC	2.39	0.56
6:A3:50:TYR:HD1	6:A3:54:PHE:HD2	1.51	0.56
6:A3:114:LEU:O	6:A3:153:PHE:CZ	2.48	0.56
3:K3:144:ASN:HB2	3:K3:158:ILE:HD13	1.88	0.56
13:P4:201:CYC:HB	13:P4:201:CYC:CMA	2.19	0.56
13:P4:202:CYC:CMA	13:P4:202:CYC:HB	2.18	0.56
2:F5:32:TYR:HE1	3:G5:35:GLY:HA2	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N5:24:ARG:NH2	3:X5:93:TYR:OH	2.39	0.56
5:A6:131:ILE:HG12	3:C6:85:ARG:NH1	2.21	0.56
3:C6:89:ILE:HA	3:C6:92:ARG:HB2	1.87	0.56
3:P6:68:ILE:HD13	13:Q6:201:CYC:O1A	2.05	0.56
13:C7:201:CYC:CMA	13:C7:201:CYC:HB	2.18	0.56
2:F7:85:CYS:HA	13:F7:1001:CYC:HAC2	1.88	0.56
9:N8:24:GLN:NE2	10:19:522:ASP:OD1	2.38	0.56
8:m8:69:PRO:O	10:09:936:SER:OG	2.24	0.56
7:p8:7:SER:OG	7:p8:25:ARG:NH2	2.39	0.56
7:p8:125:ALA:CB	13:p8:1001:CYC:HMC2	2.33	0.56
10:09:249:ARG:HH11	10:09:254:GLN:HB3	1.71	0.56
10:09:400:THR:HG23	9:29:24:GLN:OE1	2.06	0.56
7:i9:121:THR:HB	13:i9:1001:CYC:HMC3	1.87	0.56
7:o9:121:THR:HB	13:o9:1001:CYC:HMC3	1.87	0.56
3:IA:115:ARG:NH1	3:IA:173:GLY:O	2.38	0.56
3:MA:83:CYS:CB	13:MA:1002:CYC:HAC2	2.36	0.56
1:A1:209:THR:CG2	7:c8:67:SER:CB	2.83	0.56
4:N1:48:TYR:HB2	3:P1:85:ARG:CZ	2.32	0.56
4:N1:68:THR:O	4:N1:69:VAL:C	2.47	0.56
4:N1:155:GLU:HB2	4:N1:157:GLN:HE22	1.70	0.56
3:P1:77:ASN:ND2	2:Q1:116:LEU:N	2.53	0.56
2:S1:150:GLU:OE2	2:Y1:22:ASN:ND2	2.38	0.56
3:V1:118:TYR:CD1	3:V1:123:THR:HB	2.41	0.56
2:H2:31:ARG:O	2:H2:35:ALA:N	2.36	0.56
2:L2:34:ARG:HH21	2:L2:150:GLU:CG	2.19	0.56
3:M2:76:THR:OG1	3:M2:77:ASN:N	2.39	0.56
3:P2:68:ILE:HD13	13:Q2:201:CYC:O1A	2.06	0.56
3:P2:76:THR:OG1	3:P2:77:ASN:N	2.39	0.56
3:R2:121:LEU:HD21	13:R2:1001:CYC:CAA	2.34	0.56
2:B3:74:GLN:HA	13:B3:1001:CYC:CBD	2.33	0.56
13:M3:201:CYC:HB	13:M3:201:CYC:CMA	2.18	0.56
1:A4:195:ILE:O	7:V8:79:ALA:HB1	2.05	0.56
2:O4:85:CYS:SG	13:O4:1001:CYC:CAC	2.94	0.56
3:G5:53:VAL:HG21	3:G5:88:GLU:HB3	1.88	0.56
3:I5:16:ARG:HG2	3:P5:130:VAL:HG22	1.86	0.56
3:I5:146:PRO:HB3	3:I5:151:LYS:HZ2	1.69	0.56
4:N5:22:GLU:O	4:N5:23:LEU:C	2.46	0.56
2:O5:29:ARG:CD	13:P5:202:CYC:OC	2.54	0.56
3:R5:39:LEU:HD21	13:R5:201:CYC:HBB2	1.81	0.56
2:U5:5:PRO:HG2	2:U5:31:ARG:HD2	1.88	0.56
5:A6:174:LEU:HD12	13:G6:202:CYC:C4B	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E6:76:THR:OG1	3:E6:77:ASN:N	2.39	0.56
3:I6:89:ILE:HA	3:I6:92:ARG:HB2	1.87	0.56
13:V6:201:CYC:CMA	13:V6:201:CYC:HB	2.19	0.56
3:G7:76:THR:OG1	3:G7:77:ASN:N	2.39	0.56
7:C8:117:LYS:NZ	10:09:563:GLU:OE1	2.39	0.56
9:N8:39:ARG:HB3	10:19:647:ASP:OD1	2.05	0.56
8:W8:88:TYR:CZ	10:19:998:GLU:HB3	2.41	0.56
7:l8:87:TYR:HB3	13:l8:1001:CYC:HBB3	1.86	0.56
8:e9:34:THR:HG22	8:e9:37:LEU:HD11	1.86	0.56
7:w9:83:ARG:HA	5:AA:219:PHE:CD1	2.41	0.56
13:CA:201:CYC:CMA	13:CA:201:CYC:HB	2.18	0.56
4:NA:62:LEU:HG	4:NA:72:PHE:CG	2.36	0.56
2:OA:29:ARG:CD	13:PA:202:CYC:OC	2.54	0.56
1:A1:195:ILE:HG12	7:c8:83:ARG:NH1	2.22	0.55
2:F1:119:ILE:HD13	13:F1:1001:CYC:CMA	2.35	0.55
13:I1:202:CYC:CMA	13:I1:202:CYC:HB	2.19	0.55
2:L1:41:ALA:HA	2:L1:143:LEU:HD21	1.88	0.55
3:V1:39:LEU:HD13	13:V1:201:CYC:C1C	2.36	0.55
3:V1:39:LEU:HD13	13:V1:201:CYC:HMC3	1.88	0.55
2:L2:22:ASN:O	2:L2:26:GLN:HG3	2.06	0.55
2:Q2:61:TYR:HH	2:Q2:85:CYS:HG	1.54	0.55
6:A3:129:ILE:HD13	3:C3:85:ARG:HH11	1.37	0.55
3:E3:38:ARG:HD3	3:E3:98:ILE:O	2.06	0.55
3:G3:89:ILE:HA	3:G3:92:ARG:HB2	1.87	0.55
13:G4:201:CYC:CMA	13:G4:201:CYC:HB	2.19	0.55
3:I4:154:CYS:O	3:I4:155:SER:C	2.49	0.55
3:P4:89:ILE:HG21	13:P4:201:CYC:HBB2	1.84	0.55
5:A5:229:GLN:C	7:q9:66:VAL:HG12	2.19	0.55
13:A5:304:CYC:CAB	3:K5:60:LEU:HD21	2.36	0.55
13:P5:202:CYC:CMA	13:P5:202:CYC:HB	2.18	0.55
13:Z5:202:CYC:HB	13:Z5:202:CYC:CMA	2.19	0.55
13:M6:201:CYC:CMA	13:M6:201:CYC:HB	2.18	0.55
13:N6:302:CYC:C2B	3:T6:83:CYS:HB3	2.35	0.55
2:S6:88:ASP:OD1	13:S6:1001:CYC:HHB	2.05	0.55
3:V6:76:THR:OG1	3:V6:77:ASN:N	2.39	0.55
2:W6:123:PHE:CD2	13:W6:202:CYC:CAA	2.88	0.55
6:A7:114:LEU:C	6:A7:153:PHE:HZ	2.14	0.55
3:E7:76:THR:HG22	3:E7:79:ARG:HD2	1.87	0.55
3:G7:89:ILE:HA	3:G7:92:ARG:HB2	1.87	0.55
2:L7:29:ARG:CD	13:M7:201:CYC:OC	2.54	0.55
7:H8:7:SER:OG	7:H8:25:ARG:NH2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Q8:125:ALA:CB	13:Q8:1001:CYC:HMC2	2.33	0.55
7:j8:7:SER:OG	7:j8:25:ARG:NH2	2.39	0.55
7:n8:126:VAL:H	13:n8:1001:CYC:HMC1	1.69	0.55
10:09:586:ARG:HG2	10:09:646:LEU:HD13	1.87	0.55
10:19:295:ILE:HD11	10:19:326:VAL:HG22	1.88	0.55
7:E9:64:ASP:N	7:E9:64:ASP:OD2	2.37	0.55
12:m9:113:ARG:O	12:m9:117:ASN:HB2	2.05	0.55
7:q9:64:ASP:N	7:q9:64:ASP:OD2	2.37	0.55
3:EA:53:VAL:HG21	3:EA:88:GLU:HB3	1.88	0.55
3:IA:53:VAL:HG21	3:IA:88:GLU:HB3	1.88	0.55
3:ZA:53:VAL:HG21	3:ZA:88:GLU:HB3	1.88	0.55
1:A1:177:TYR:HE2	13:G1:202:CYC:O2D	1.88	0.55
2:D1:88:ASP:CG	13:D1:1001:CYC:HHB	2.32	0.55
13:G1:201:CYC:CMA	13:G1:201:CYC:HB	2.19	0.55
2:L2:29:ARG:CD	13:M2:201:CYC:OC	2.54	0.55
13:N2:301:CYC:HBA2	13:N2:301:CYC:CHA	2.25	0.55
2:S2:32:TYR:CD1	3:T2:35:GLY:HA3	2.41	0.55
13:W2:203:CYC:HBB1	3:X2:144:ASN:CA	2.34	0.55
3:X2:83:CYS:HB3	13:X2:201:CYC:CHD	2.36	0.55
2:F3:2:VAL:N	3:G3:2:THR:HG1	2.03	0.55
1:A4:164:ARG:HH21	1:A4:169:PRO:HD3	1.70	0.55
1:A4:177:TYR:OH	3:G4:121:LEU:O	2.24	0.55
1:A4:209:THR:CB	7:V8:67:SER:HA	2.35	0.55
2:D4:88:ASP:CG	13:D4:1001:CYC:HHB	2.32	0.55
3:E4:68:ILE:CD1	13:F4:1001:CYC:O1A	2.54	0.55
2:F4:94:ARG:HH21	3:G4:14:ASP:HA	1.71	0.55
13:K4:201:CYC:CMA	13:K4:201:CYC:HB	2.19	0.55
13:K4:202:CYC:CMA	13:K4:202:CYC:HB	2.19	0.55
2:O4:123:PHE:CD2	13:O4:1001:CYC:CAA	2.89	0.55
5:A5:17:VAL:HG13	3:E5:85:ARG:CD	2.35	0.55
4:N5:47:ASP:OD2	4:N5:180:ARG:NH2	2.38	0.55
4:N5:225:ASN:HB3	4:N5:260:ILE:HD13	1.87	0.55
3:P5:144:ASN:C	13:P5:202:CYC:HBB1	2.31	0.55
13:P5:201:CYC:HB	13:P5:201:CYC:CMA	2.19	0.55
2:W5:29:ARG:HD2	2:W5:29:ARG:C	2.30	0.55
2:W5:29:ARG:CG	13:X5:202:CYC:OC	2.39	0.55
2:L6:29:ARG:HD2	13:M6:201:CYC:OC	2.06	0.55
4:N6:206:SER:HB3	3:P6:113:GLY:HA2	1.89	0.55
13:P6:201:CYC:CMD	13:P6:201:CYC:HC	2.19	0.55
3:R6:76:THR:OG1	3:R6:77:ASN:N	2.39	0.55
13:U6:201:CYC:CMA	13:U6:201:CYC:HB	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:153:PHE:HD1	6:A7:159:PRO:HA	1.71	0.55
2:B7:31:ARG:NH1	2:B7:102:ALA:C	2.63	0.55
7:H8:105:GLU:HA	7:H8:109:VAL:HB	1.89	0.55
7:V8:125:ALA:CB	13:V8:1001:CYC:HMC2	2.33	0.55
10:09:432:LYS:HB3	8:O9:111:ASN:HD21	1.70	0.55
10:09:714:ARG:NH1	8:x9:70:GLY:O	2.39	0.55
10:09:960:TYR:HB3	10:09:974:VAL:HG22	1.88	0.55
10:19:996:ARG:HD3	10:19:999:LEU:HB3	1.89	0.55
7:E9:94:TYR:OH	8:F9:14:ASP:HA	2.06	0.55
7:K9:64:ASP:OD2	7:K9:64:ASP:N	2.37	0.55
7:K9:65:VAL:HG12	13:K9:1001:CYC:OC	2.03	0.55
7:R9:121:THR:HB	13:R9:1001:CYC:HMC3	1.87	0.55
7:d9:121:THR:HB	13:d9:1001:CYC:HMC3	1.87	0.55
7:f9:121:THR:HB	13:f9:1001:CYC:HMC3	1.87	0.55
7:k9:64:ASP:N	7:k9:64:ASP:OD2	2.37	0.55
3:GA:53:VAL:HG21	3:GA:88:GLU:HB3	1.88	0.55
3:IA:44:ARG:NH1	3:IA:142:ILE:O	2.40	0.55
2:QA:39:LEU:O	2:QA:42:ALA:N	2.39	0.55
3:RA:41:VAL:HG11	3:RA:157:LEU:HD11	1.88	0.55
3:VA:53:VAL:HG21	3:VA:88:GLU:HB3	1.88	0.55
4:N1:112:SER:O	4:N1:115:VAL:HG12	2.06	0.55
13:Q1:202:CYC:HBB2	3:R1:39:LEU:HD13	1.89	0.55
13:M2:201:CYC:HB	13:M2:201:CYC:CMA	2.18	0.55
2:Q2:119:ILE:CD1	13:Q2:201:CYC:CMA	2.80	0.55
2:U2:119:ILE:CD1	13:U2:202:CYC:HMA1	2.20	0.55
2:W2:92:TYR:HE2	13:W2:202:CYC:HMB2	1.71	0.55
3:Z2:87:MET:CE	13:Z2:202:CYC:HBC2	2.20	0.55
2:B3:31:ARG:NH1	2:B3:102:ALA:C	2.63	0.55
3:E4:83:CYS:SG	13:E4:201:CYC:NC	2.64	0.55
13:Q4:202:CYC:CMA	13:Q4:202:CYC:HB	2.18	0.55
5:A5:64:PHE:CE2	2:J5:18:ARG:HD2	2.38	0.55
5:A5:174:LEU:HB2	13:A5:303:CYC:C4B	2.36	0.55
5:A5:228:ASN:O	7:q9:66:VAL:CG2	2.55	0.55
13:E5:201:CYC:HB	13:E5:201:CYC:CMA	2.19	0.55
3:P5:53:VAL:HG21	3:P5:88:GLU:HB3	1.88	0.55
13:T5:202:CYC:CMA	13:T5:202:CYC:HB	2.18	0.55
5:A6:197:THR:HG21	7:N9:75:GLN:HA	1.87	0.55
2:D6:29:ARG:HB2	13:E6:202:CYC:CBB	2.36	0.55
2:F6:31:ARG:O	2:F6:35:ALA:N	2.35	0.55
2:F6:85:CYS:HA	13:F6:1001:CYC:HAC2	1.88	0.55
2:O6:123:PHE:CE2	13:O6:1001:CYC:HAA1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D7:31:ARG:O	2:D7:35:ALA:N	2.38	0.55
2:D7:34:ARG:HH21	13:I7:202:CYC:H2C	1.69	0.55
8:W8:77:ARG:HH12	13:W8:1001:CYC:CGD	2.13	0.55
7:X8:105:GLU:HA	7:X8:109:VAL:HB	1.89	0.55
7:g8:105:GLU:HA	7:g8:109:VAL:HB	1.89	0.55
8:k8:111:ASN:HB3	10:09:1032:PRO:HG3	1.89	0.55
8:x9:75:THR:HG23	7:y9:107:ILE:HA	1.87	0.55
2:DA:34:ARG:CZ	2:DA:150:GLU:OE2	2.55	0.55
13:PA:201:CYC:HC	13:PA:201:CYC:CMD	2.19	0.55
2:UA:5:PRO:HG2	2:UA:31:ARG:HD2	1.88	0.55
1:A1:172:LEU:HD21	3:G1:113:GLY:CA	2.30	0.55
3:I1:154:CYS:O	3:I1:155:SER:C	2.49	0.55
2:O1:123:PHE:CD2	13:O1:1001:CYC:CAA	2.88	0.55
3:T1:154:CYS:SG	3:T1:158:ILE:CD1	2.94	0.55
13:V1:201:CYC:CMA	13:V1:201:CYC:HB	2.18	0.55
2:F2:74:GLN:OE1	2:F2:74:GLN:N	2.29	0.55
2:W2:74:GLN:OE1	2:W2:124:ASP:HB3	2.05	0.55
3:Z2:37:LYS:CB	3:Z2:157:LEU:HD11	2.36	0.55
6:A3:83:ILE:HD11	6:A3:159:PRO:CG	2.37	0.55
3:C3:58:ARG:CZ	2:D3:73:PRO:HB3	2.32	0.55
2:L3:22:ASN:O	2:L3:26:GLN:HG3	2.06	0.55
2:L3:33:GLU:OE1	2:L3:33:GLU:HA	2.06	0.55
2:L3:34:ARG:HH21	2:L3:150:GLU:CG	2.19	0.55
2:B4:146:GLN:H	2:B4:146:GLN:CD	2.10	0.55
2:L4:40:GLU:N	2:L4:40:GLU:OE1	2.40	0.55
2:S4:91:HIS:HB2	13:S4:1001:CYC:CMB	2.37	0.55
3:I5:53:VAL:HG21	3:I5:88:GLU:HB3	1.88	0.55
3:K5:53:VAL:HG21	3:K5:88:GLU:HB3	1.88	0.55
3:Z5:154:CYS:HB3	13:Z5:202:CYC:CAB	2.37	0.55
3:K6:144:ASN:HB2	3:K6:158:ILE:HD13	1.88	0.55
2:L6:100:LEU:HD23	2:L6:150:GLU:OE1	2.07	0.55
13:P6:201:CYC:HC	13:P6:201:CYC:HMD2	1.72	0.55
2:Q6:31:ARG:HH11	2:Q6:103:GLY:CA	2.19	0.55
2:Q6:33:GLU:N	2:Q6:33:GLU:OE1	2.39	0.55
2:U6:123:PHE:CE2	13:U6:202:CYC:CAA	2.90	0.55
6:A7:60:ILE:CG2	2:B7:115:GLY:HA2	2.35	0.55
6:A7:104:ARG:HD3	6:A7:104:ARG:O	2.05	0.55
2:H7:31:ARG:CD	2:H7:35:ALA:CB	2.78	0.55
3:I7:85:ARG:HH22	4:N7:267:SER:CB	2.18	0.55
7:A8:7:SER:OG	7:A8:25:ARG:NH2	2.39	0.55
7:C8:105:GLU:HA	7:C8:109:VAL:HB	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H8:125:ALA:CB	13:H8:1001:CYC:HMC2	2.33	0.55
7:Q8:126:VAL:H	13:Q8:1001:CYC:HMC1	1.69	0.55
7:j8:105:GLU:HA	7:j8:109:VAL:HB	1.89	0.55
7:t8:52:LYS:NZ	10:19:928:PRO:HG3	2.20	0.55
9:49:23:LEU:HD22	13:D9:1001:CYC:NB	2.21	0.55
7:s9:64:ASP:N	7:s9:64:ASP:OD2	2.37	0.55
3:ZA:87:MET:CE	13:ZA:201:CYC:HBC3	2.34	0.55
13:ZA:202:CYC:CMA	13:ZA:202:CYC:HB	2.18	0.55
4:N1:235:ARG:HB2	4:N1:263:TYR:HB2	1.87	0.55
13:C2:202:CYC:CMA	13:C2:202:CYC:HB	2.18	0.55
3:K2:73:ASN:HD22	3:K2:123:THR:HA	1.70	0.55
2:O2:123:PHE:CE2	13:O2:1001:CYC:HAA1	2.41	0.55
3:P2:60:LEU:HD13	3:P2:87:MET:CE	2.37	0.55
2:Q2:31:ARG:HH11	2:Q2:103:GLY:CA	2.20	0.55
2:S2:88:ASP:CG	13:S2:1001:CYC:HHB	2.32	0.55
6:A3:114:LEU:C	6:A3:153:PHE:HZ	2.14	0.55
2:D3:29:ARG:HB2	13:E3:202:CYC:CBB	2.36	0.55
1:A4:210:VAL:O	7:r8:67:SER:OG	2.24	0.55
4:N4:200:SER:OG	4:N4:201:THR:N	2.37	0.55
13:P4:201:CYC:HC	13:P4:201:CYC:HMD2	1.72	0.55
3:V4:39:LEU:HD13	13:V4:201:CYC:C1C	2.36	0.55
3:E5:53:VAL:HG21	3:E5:88:GLU:HB3	1.88	0.55
3:X5:53:VAL:HG21	3:X5:88:GLU:HB3	1.88	0.55
13:C6:202:CYC:HB	13:C6:202:CYC:CMA	2.18	0.55
3:P6:76:THR:OG1	3:P6:77:ASN:N	2.39	0.55
2:Q6:91:HIS:ND1	13:Q6:201:CYC:CBB	2.63	0.55
2:B7:123:PHE:CE2	13:B7:1001:CYC:HAA2	2.24	0.55
2:H7:32:TYR:N	2:H7:32:TYR:CD1	2.75	0.55
8:I8:50:ALA:CB	7:X9:161:GLN:OE1	2.55	0.55
7:J8:7:SER:OG	7:J8:25:ARG:NH2	2.39	0.55
8:P8:14:ASP:OD2	9:U8:64:ASN:ND2	2.38	0.55
8:W8:88:TYR:HE2	10:19:998:GLU:HB3	1.69	0.55
13:f8:1001:CYC:HBB2	9:i8:21:ARG:HB3	1.88	0.55
7:n8:52:LYS:HE3	10:09:930:PHE:CZ	2.40	0.55
8:o8:77:ARG:NH1	10:09:1116:SER:OG	2.39	0.55
8:s8:78:ARG:NH1	10:19:947:VAL:H	2.04	0.55
7:I9:115:MET:CE	13:I9:1001:CYC:HHB	2.37	0.55
4:NA:62:LEU:CD2	4:NA:72:PHE:CE1	2.74	0.55
13:RA:201:CYC:CAB	2:UA:34:ARG:HE	2.09	0.55
3:XA:53:VAL:HG21	3:XA:88:GLU:HB3	1.88	0.55
13:M1:201:CYC:HBA2	13:M1:201:CYC:CHA	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A2:131:ILE:HG12	3:C2:85:ARG:NH1	2.21	0.55
2:L2:85:CYS:SG	13:L2:201:CYC:HAC2	2.47	0.55
2:S2:88:ASP:OD1	13:S2:1001:CYC:HHB	2.06	0.55
13:G3:202:CYC:CAB	2:L3:34:ARG:NH1	2.70	0.55
13:K3:202:CYC:HB	13:K3:202:CYC:CMA	2.19	0.55
3:G4:83:CYS:HA	13:G4:202:CYC:HAC2	1.86	0.55
3:I4:73:ASN:ND2	3:I4:123:THR:HG23	2.22	0.55
4:N4:112:SER:O	4:N4:115:VAL:HG12	2.06	0.55
2:S4:150:GLU:OE2	2:Y4:22:ASN:ND2	2.38	0.55
3:T4:154:CYS:SG	3:T4:158:ILE:CD1	2.94	0.55
2:U4:91:HIS:HB3	13:U4:1001:CYC:HBB3	1.89	0.55
3:V4:118:TYR:CD1	3:V4:123:THR:HB	2.41	0.55
13:A5:302:CYC:HMC2	3:E5:128:VAL:CG2	2.37	0.55
2:Q5:39:LEU:O	2:Q5:42:ALA:N	2.39	0.55
3:R5:41:VAL:HG11	3:R5:157:LEU:HD11	1.88	0.55
3:T5:53:VAL:HG21	3:T5:88:GLU:HB3	1.88	0.55
5:A6:197:THR:HG22	7:N9:75:GLN:CG	2.36	0.55
5:A6:197:THR:OG1	7:N9:78:THR:HG21	2.07	0.55
5:A6:202:TYR:CE2	7:N9:48:GLU:HB3	2.42	0.55
2:F6:27:SER:OG	2:L6:27:SER:HB3	2.06	0.55
2:L6:85:CYS:SG	13:L6:201:CYC:HAC2	2.47	0.55
6:A7:83:ILE:HD11	6:A7:159:PRO:CG	2.37	0.55
6:A7:83:ILE:HD11	6:A7:159:PRO:HG3	1.88	0.55
3:E7:38:ARG:HD3	3:E7:98:ILE:O	2.06	0.55
8:D8:77:ARG:HH12	13:D8:1001:CYC:CGD	2.13	0.55
7:L8:105:GLU:HA	7:L8:109:VAL:HB	1.89	0.55
7:O8:125:ALA:CB	13:O8:1001:CYC:HMC2	2.33	0.55
7:Q8:49:ARG:HH12	8:q8:115:GLU:CD	2.14	0.55
9:U8:30:LYS:CG	10:09:782:GLU:OE2	2.55	0.55
7:X8:7:SER:OG	7:X8:25:ARG:NH2	2.39	0.55
7:c8:105:GLU:HA	7:c8:109:VAL:HB	1.89	0.55
8:o8:65:ASP:CB	10:09:1128:ARG:CB	2.75	0.55
10:09:464:PHE:O	10:09:610:TYR:OH	2.25	0.55
9:49:4:LEU:N	9:49:58:THR:OG1	2.38	0.55
7:C9:115:MET:CE	13:C9:1001:CYC:HHB	2.37	0.55
7:E9:115:MET:CE	13:E9:1001:CYC:HHB	2.37	0.55
7:f9:115:MET:CE	13:f9:1001:CYC:HHB	2.37	0.55
7:y9:115:MET:CE	13:y9:1001:CYC:HHB	2.37	0.55
13:AA:304:CYC:CAB	3:KA:60:LEU:HD21	2.36	0.55
2:LA:29:ARG:HB2	3:MA:39:LEU:HD21	1.87	0.55
2:WA:22:ASN:O	2:WA:26:GLN:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ZA:154:CYS:HB3	13:ZA:202:CYC:CAB	2.37	0.55
4:N1:21:VAL:CG2	4:N1:148:VAL:HG12	2.36	0.55
3:G2:86:ASP:OD1	13:G2:202:CYC:CHD	2.40	0.55
2:L2:100:LEU:HD23	2:L2:150:GLU:OE1	2.07	0.55
13:P2:201:CYC:HC	13:P2:201:CYC:CMD	2.19	0.55
2:Q2:31:ARG:HH21	2:Q2:35:ALA:HB2	0.49	0.55
2:Q2:123:PHE:CE2	13:Q2:201:CYC:HAA2	2.42	0.55
3:R2:121:LEU:CG	13:R2:1001:CYC:HAA2	2.36	0.55
2:U2:123:PHE:CE2	13:U2:202:CYC:CAA	2.90	0.55
3:Z2:76:THR:OG1	3:Z2:77:ASN:N	2.39	0.55
13:A3:301:CYC:CGD	3:C3:121:LEU:HD22	2.37	0.55
2:D3:26:GLN:OE1	2:H3:5:PRO:HG2	2.07	0.55
3:E3:39:LEU:HD13	13:E3:202:CYC:HBB3	1.87	0.55
2:H3:31:ARG:O	2:H3:35:ALA:N	2.37	0.55
3:K3:87:MET:CE	13:K3:201:CYC:HMB1	2.37	0.55
1:A4:3:ILE:HG23	3:C4:78:ARG:HD3	1.88	0.55
3:C5:53:VAL:HG21	3:C5:88:GLU:HB3	1.88	0.55
3:E5:152:GLY:N	13:E5:201:CYC:HMD1	2.21	0.55
2:F5:62:GLN:C	3:G7:66:GLN:CG	2.75	0.55
3:R5:36:ASN:ND2	13:R5:201:CYC:HAA2	2.16	0.55
3:R5:53:VAL:HG21	3:R5:88:GLU:HB3	1.88	0.55
13:N6:301:CYC:HHA	13:N6:301:CYC:CBA	2.26	0.55
2:Y6:88:ASP:HA	13:Y6:201:CYC:HMB2	1.89	0.55
3:E7:39:LEU:HD13	13:E7:202:CYC:HBB3	1.88	0.55
13:G7:202:CYC:CAB	2:L7:34:ARG:NH1	2.70	0.55
3:K7:87:MET:CE	13:K7:201:CYC:HMB1	2.37	0.55
3:K7:144:ASN:HB2	3:K7:158:ILE:HD13	1.88	0.55
7:L8:126:VAL:H	13:L8:1001:CYC:HMC1	1.69	0.55
7:c8:37:LEU:O	7:c8:41:GLN:CG	2.42	0.55
8:k8:11:ASN:ND2	10:09:1120:LEU:O	2.40	0.55
7:n8:7:SER:OG	7:n8:25:ARG:NH2	2.39	0.55
7:n8:105:GLU:HA	7:n8:109:VAL:HB	1.89	0.55
7:P9:12:ASP:OD2	11:Q9:108:ARG:NH2	2.39	0.55
8:S9:110:LEU:HD11	8:S9:157:ILE:HA	1.89	0.55
7:T9:65:VAL:HG12	13:T9:1001:CYC:OC	2.03	0.55
7:Z9:64:ASP:N	7:Z9:64:ASP:OD2	2.37	0.55
7:o9:90:ARG:NH2	8:t9:74:TYR:OH	2.27	0.55
5:AA:118:ARG:NH2	5:AA:150:GLU:OE2	2.40	0.55
13:AA:304:CYC:CBC	3:KA:114:LEU:HD13	2.36	0.55
3:CA:68:ILE:HD13	13:DA:1001:CYC:O2A	1.92	0.55
4:NA:92:GLN:HB2	13:NA:301:CYC:OB	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:86:ALA:HB3	8:d8:26:GLU:HG3	1.82	0.55
2:D2:26:GLN:OE1	2:H2:5:PRO:HG2	2.07	0.55
3:G2:76:THR:OG1	3:G2:77:ASN:N	2.39	0.55
3:I2:76:THR:OG1	3:I2:77:ASN:N	2.39	0.55
3:M2:89:ILE:CG2	13:N2:301:CYC:HBB3	2.37	0.55
3:M2:150:THR:O	13:M2:201:CYC:NB	2.40	0.55
4:N2:206:SER:HB3	3:P2:113:GLY:HA2	1.89	0.55
13:N2:302:CYC:CMA	3:T2:82:ALA:HB3	2.35	0.55
2:Q2:153:THR:CG2	3:V2:43:ASN:HD21	2.20	0.55
2:S2:104:GLY:HA2	2:Y2:23:THR:HB	1.87	0.55
3:X2:38:ARG:NH2	3:X2:101:GLY:HA2	2.19	0.55
6:A3:100:ASN:ND2	6:A3:108:ILE:HD11	2.20	0.55
6:A3:113:PHE:O	6:A3:153:PHE:CE1	2.58	0.55
2:B3:3:LYS:HZ3	2:J3:16:GLN:HE22	1.54	0.55
3:K3:73:ASN:HD22	3:K3:123:THR:HA	1.70	0.55
4:N3:264:GLU:OE2	4:N3:264:GLU:HA	2.07	0.55
1:A4:205:ILE:HG23	7:V8:56:ASP:CB	2.36	0.55
2:S4:119:ILE:HD11	13:S4:1001:CYC:HAA1	1.89	0.55
2:W4:85:CYS:CA	13:W4:1001:CYC:HAC2	2.36	0.55
5:A5:239:PHE:HA	7:A9:52:LYS:CG	2.37	0.55
3:I5:44:ARG:NH1	3:I5:142:ILE:O	2.40	0.55
13:P5:201:CYC:HC	13:P5:201:CYC:HMD2	1.72	0.55
2:B6:22:ASN:O	2:B6:26:GLN:CG	2.42	0.55
2:D6:26:GLN:OE1	2:H6:5:PRO:HG2	2.07	0.55
3:K6:68:ILE:HD13	13:L6:201:CYC:O1A	2.04	0.55
2:Q6:88:ASP:HA	13:Q6:201:CYC:CMB	2.23	0.55
3:V6:43:ASN:ND2	13:V6:201:CYC:CBC	2.70	0.55
2:W6:74:GLN:OE1	2:W6:124:ASP:HB3	2.05	0.55
3:X6:83:CYS:HB3	13:X6:201:CYC:CHD	2.36	0.55
13:A7:301:CYC:CGD	3:C7:121:LEU:HD22	2.37	0.55
3:K7:43:ASN:CG	13:K7:202:CYC:CBC	2.80	0.55
7:E8:44:THR:HG22	8:F8:19:TYR:HB2	1.89	0.55
7:H8:64:ASP:OD1	7:Z9:69:GLY:O	2.19	0.55
7:Q8:105:GLU:HA	7:Q8:109:VAL:HB	1.89	0.55
7:V8:105:GLU:HA	7:V8:109:VAL:HB	1.89	0.55
13:o8:1001:CYC:HMA2	10:09:1112:LEU:HB3	1.88	0.55
10:09:396:PHE:O	10:09:400:THR:OG1	2.22	0.55
10:19:464:PHE:CZ	10:19:559:ARG:HB3	2.42	0.55
9:29:16:ARG:HD2	9:29:23:LEU:CD2	2.37	0.55
8:F9:110:LEU:HD11	8:F9:157:ILE:HA	1.89	0.55
7:G9:121:THR:HB	13:G9:1001:CYC:HMC3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X9:121:THR:HB	13:X9:1001:CYC:HMC3	1.87	0.55
8:l9:110:LEU:HD11	8:l9:157:ILE:HA	1.89	0.55
7:q9:115:MET:CE	13:q9:1001:CYC:HHB	2.37	0.55
7:q9:121:THR:HB	13:q9:1001:CYC:HMC3	1.87	0.55
7:s9:115:MET:CE	13:s9:1001:CYC:HHB	2.37	0.55
8:x9:110:LEU:HD11	8:x9:157:ILE:HA	1.89	0.55
3:RA:154:CYS:CB	13:RA:201:CYC:H2C	2.35	0.55
2:SA:29:ARG:NE	13:TA:202:CYC:OB	2.38	0.55
13:XA:202:CYC:CMA	13:XA:202:CYC:HB	2.19	0.55
3:G1:70:PRO:HG3	8:d8:18:LYS:NZ	2.22	0.55
2:L1:141:HIS:HE1	2:L1:143:LEU:O	1.90	0.55
2:S1:119:ILE:HD11	13:S1:1001:CYC:HAA1	1.89	0.55
13:G2:201:CYC:CAB	2:L2:34:ARG:NH1	2.70	0.55
3:K2:57:ALA:O	3:K2:61:PHE:CD2	2.60	0.55
3:M2:167:ARG:HH22	3:R2:115:ARG:CZ	2.20	0.55
2:Q2:91:HIS:CG	13:Q2:201:CYC:CAB	2.90	0.55
3:R2:154:CYS:HB3	13:U2:201:CYC:CBC	2.37	0.55
3:T2:76:THR:OG1	3:T2:77:ASN:N	2.39	0.55
2:D3:31:ARG:NH2	2:D3:35:ALA:HA	2.22	0.55
2:F3:85:CYS:HA	13:F3:1001:CYC:HAC2	1.88	0.55
3:K3:57:ALA:O	3:K3:61:PHE:CD2	2.60	0.55
2:L3:29:ARG:HD2	13:M3:201:CYC:OC	2.06	0.55
1:A4:198:PHE:CE1	7:V8:82:LEU:O	2.60	0.55
3:T5:40:ASP:HB3	13:T5:202:CYC:HHB	1.88	0.55
3:V5:89:ILE:HG13	13:V5:201:CYC:HMC1	1.79	0.55
3:C6:152:GLY:CA	13:C6:202:CYC:HMD2	2.28	0.55
13:G6:201:CYC:CAB	2:L6:34:ARG:NH1	2.70	0.55
2:L6:22:ASN:O	2:L6:26:GLN:HG3	2.06	0.55
2:L6:34:ARG:HH21	2:L6:150:GLU:CG	2.19	0.55
13:P6:201:CYC:HB	13:P6:201:CYC:CMA	2.19	0.55
2:Q6:123:PHE:CE2	13:Q6:201:CYC:HAA2	2.41	0.55
3:Z6:121:LEU:HD21	13:Z6:202:CYC:HAA2	1.88	0.55
2:H7:31:ARG:HE	2:H7:35:ALA:CB	2.13	0.55
3:M7:89:ILE:CG2	13:N7:301:CYC:HBB3	2.37	0.55
7:Z8:105:GLU:HA	7:Z8:109:VAL:HB	1.89	0.55
8:o8:15:VAL:CG1	10:09:941:ARG:CA	2.85	0.55
10:19:766:PHE:HA	10:19:769:TRP:HD1	1.71	0.55
8:L9:110:LEU:HD11	8:L9:157:ILE:HA	1.89	0.55
7:R9:115:MET:CE	13:R9:1001:CYC:HHB	2.37	0.55
7:u9:115:MET:CE	13:u9:1001:CYC:HHB	2.37	0.55
8:v9:110:LEU:HD11	8:v9:157:ILE:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NA:70:ARG:HG3	4:NA:134:ILE:HD11	1.89	0.55
2:WA:31:ARG:NH2	2:WA:35:ALA:HB2	2.21	0.55
3:C1:78:ARG:HD2	3:C1:78:ARG:C	2.32	0.55
3:T1:128:VAL:CG2	13:T1:202:CYC:CMB	2.50	0.55
3:X1:73:ASN:ND2	3:X1:123:THR:HG23	2.22	0.55
5:A2:233:ALA:HB3	7:g8:68:PRO:HG2	1.89	0.55
2:H2:61:TYR:HH	2:H2:85:CYS:HG	1.55	0.55
3:K2:83:CYS:CA	13:K2:201:CYC:HMB3	2.37	0.55
3:Z2:151:LYS:C	13:Z2:201:CYC:OB	2.50	0.55
6:A3:110:LEU:CD2	6:A3:114:LEU:CD1	2.80	0.55
6:A3:110:LEU:HD23	6:A3:114:LEU:HD12	1.88	0.55
13:G3:202:CYC:HB	13:G3:202:CYC:CMA	2.19	0.55
2:H3:32:TYR:N	2:H3:32:TYR:CD1	2.75	0.55
2:L3:100:LEU:CD2	2:L3:150:GLU:CD	2.80	0.55
3:M3:89:ILE:CG2	13:N3:301:CYC:HBB3	2.37	0.55
1:A4:201:LEU:CG	7:V8:52:LYS:HE3	2.35	0.55
13:I4:202:CYC:CMA	13:I4:202:CYC:HB	2.19	0.55
5:A5:219:PHE:CD2	7:q9:83:ARG:CA	2.89	0.55
3:M5:53:VAL:HG21	3:M5:88:GLU:HB3	1.88	0.55
2:B6:29:ARG:NH1	3:C6:36:ASN:OD1	2.40	0.55
2:D6:31:ARG:NH2	2:D6:35:ALA:CA	2.70	0.55
2:D6:31:ARG:NH2	2:D6:35:ALA:HA	2.22	0.55
2:L6:29:ARG:CD	13:M6:201:CYC:OC	2.54	0.55
2:L6:100:LEU:CD2	2:L6:150:GLU:CD	2.80	0.55
13:K7:201:CYC:CMA	13:K7:201:CYC:HB	2.18	0.55
2:L7:29:ARG:HD2	13:M7:201:CYC:OC	2.06	0.55
2:L7:34:ARG:HH21	2:L7:150:GLU:CG	2.19	0.55
7:C8:120:GLY:HA2	7:I9:124:GLU:CD	2.28	0.55
7:J8:125:ALA:CB	13:J8:1001:CYC:HMC2	2.33	0.55
9:b8:22:GLU:CB	9:b8:25:ASN:HB3	2.28	0.55
7:c8:7:SER:OG	7:c8:25:ARG:NH2	2.39	0.55
7:g8:125:ALA:CB	13:g8:1001:CYC:HMC2	2.33	0.55
7:l8:105:GLU:HA	7:l8:109:VAL:HB	1.89	0.55
10:19:161:ASP:OD1	13:19:1202:CYC:HHB	2.07	0.55
10:19:1058:TYR:HA	10:19:1061:LEU:HB2	1.88	0.55
8:B9:110:LEU:HD11	8:B9:157:ILE:HA	1.89	0.55
7:C9:121:THR:HB	13:C9:1001:CYC:HMC3	1.87	0.55
7:b9:64:ASP:N	7:b9:64:ASP:OD2	2.37	0.55
7:d9:37:LEU:HD22	8:e9:25:LEU:HD23	1.89	0.55
7:d9:65:VAL:HG12	13:d9:1001:CYC:OC	2.03	0.55
7:k9:121:THR:HB	13:k9:1001:CYC:HMC3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AA:174:LEU:HB2	13:AA:303:CYC:C4B	2.36	0.55
2:FA:31:ARG:NH2	3:GA:6:PHE:CE2	2.75	0.55
2:B1:123:PHE:CE2	13:B1:1001:CYC:HAA2	2.42	0.54
3:E1:68:ILE:CD1	13:F1:1001:CYC:O1A	2.54	0.54
3:I1:68:ILE:CD1	13:J1:1001:CYC:O1A	2.55	0.54
13:X1:202:CYC:CGA	13:X1:202:CYC:CMA	2.85	0.54
5:A2:105:TYR:CD2	3:C2:113:GLY:HA3	2.42	0.54
2:L2:100:LEU:CD2	2:L2:150:GLU:CD	2.80	0.54
2:L2:100:LEU:HD21	2:L2:150:GLU:OE2	2.07	0.54
13:N2:302:CYC:HAC2	3:T2:114:LEU:HD13	1.89	0.54
3:P2:83:CYS:HB2	13:P2:201:CYC:C3C	2.34	0.54
2:S2:32:TYR:HE1	3:T2:35:GLY:C	2.15	0.54
3:E3:76:THR:HG23	3:E3:79:ARG:HG3	1.89	0.54
1:A4:46:ILE:CD1	1:A4:72:LEU:CD1	2.75	0.54
1:A4:172:LEU:HD21	3:G4:113:GLY:CA	2.30	0.54
2:B4:87:ARG:CG	8:W8:23:ALA:HB2	2.34	0.54
3:I4:68:ILE:CD1	13:J4:1001:CYC:O1A	2.55	0.54
13:M4:201:CYC:HBA2	13:M4:201:CYC:CHA	2.24	0.54
3:P4:36:ASN:HD21	13:P4:202:CYC:C3D	2.21	0.54
5:A5:241:ILE:HD12	7:A9:78:THR:HG23	0.57	0.54
2:L5:29:ARG:HB2	3:M5:39:LEU:HD21	1.87	0.54
4:N5:4:THR:HG22	4:N5:5:THR:HG23	1.88	0.54
3:X5:58:ARG:O	3:X5:62:GLU:HB2	2.07	0.54
3:Z5:87:MET:CE	13:Z5:201:CYC:HBC3	2.34	0.54
3:E6:38:ARG:HD3	3:E6:98:ILE:O	2.06	0.54
3:K6:43:ASN:CG	13:K6:202:CYC:CBC	2.80	0.54
3:K6:76:THR:OG1	3:K6:77:ASN:N	2.39	0.54
13:N6:302:CYC:HAC2	3:T6:114:LEU:HD13	1.89	0.54
3:P6:34:GLU:HG2	3:P6:157:LEU:HD11	1.88	0.54
3:R6:121:LEU:CG	13:R6:1001:CYC:HAA2	2.36	0.54
3:T6:76:THR:OG1	3:T6:77:ASN:N	2.39	0.54
2:B7:22:ASN:O	2:B7:26:GLN:CG	2.42	0.54
3:C7:75:TYR:HH	2:D7:94:ARG:NH1	2.04	0.54
8:B8:84:ARG:NH1	10:09:572:ILE:HD13	2.22	0.54
8:W8:88:TYR:OH	10:19:998:GLU:CB	2.55	0.54
7:X8:125:ALA:CB	13:X8:1001:CYC:HMC2	2.33	0.54
8:k8:11:ASN:ND2	10:09:1121:SER:HA	2.22	0.54
7:p8:105:GLU:HA	7:p8:109:VAL:HB	1.89	0.54
10:09:1003:LEU:HD21	10:09:1013:PHE:HB2	1.89	0.54
10:19:333:PRO:HG3	7:i9:14:GLU:HG3	1.89	0.54
10:19:717:GLN:HB3	8:r9:78:ARG:HH12	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W9:110:LEU:HD11	8:W9:157:ILE:HA	1.89	0.54
7:Z9:121:THR:HB	13:Z9:1001:CYC:HMC3	1.87	0.54
8:n9:110:LEU:HD11	8:n9:157:ILE:HA	1.89	0.54
7:u9:64:ASP:OD2	7:u9:64:ASP:N	2.37	0.54
3:CA:68:ILE:HD11	13:DA:1001:CYC:CGA	2.32	0.54
3:TA:53:VAL:HG21	3:TA:88:GLU:HB3	1.88	0.54
2:WA:29:ARG:HD2	2:WA:29:ARG:C	2.31	0.54
3:C1:118:TYR:HE2	3:C1:128:VAL:HG21	1.72	0.54
3:K1:121:LEU:HD11	13:K1:201:CYC:HAA2	1.89	0.54
3:V1:86:ASP:O	3:V1:89:ILE:N	2.40	0.54
5:A2:202:TYR:CE2	7:d9:48:GLU:HG2	2.42	0.54
5:A2:230:GLY:N	7:X9:66:VAL:CB	2.69	0.54
2:B2:29:ARG:NH1	3:C2:36:ASN:OD1	2.40	0.54
13:C2:202:CYC:HAB1	2:J2:34:ARG:CZ	2.37	0.54
2:D2:29:ARG:HB2	13:E2:202:CYC:CBB	2.36	0.54
2:D2:31:ARG:O	2:D2:35:ALA:N	2.38	0.54
2:F2:27:SER:OG	2:L2:27:SER:HB3	2.06	0.54
3:R2:154:CYS:HB3	13:U2:201:CYC:HBC2	1.89	0.54
3:T2:37:LYS:HB3	3:T2:157:LEU:HD12	1.89	0.54
13:W2:203:CYC:CGA	13:W2:203:CYC:CMA	2.85	0.54
2:D3:31:ARG:NH2	2:D3:35:ALA:CA	2.69	0.54
3:M3:150:THR:O	13:M3:201:CYC:NB	2.40	0.54
2:F4:25:LEU:CD2	13:G4:201:CYC:HBB3	2.31	0.54
3:I4:150:THR:OG1	13:I4:202:CYC:C3A	2.55	0.54
5:A5:52:TYR:CE2	5:A5:71:GLU:OE2	2.61	0.54
5:A5:64:PHE:HZ	2:J5:18:ARG:CZ	2.20	0.54
5:A6:103:ASN:ND2	3:C6:112:ASN:HD22	1.93	0.54
5:A6:230:GLY:CA	7:I9:63:PRO:HB2	2.36	0.54
2:B6:61:TYR:HH	2:B6:85:CYS:HG	1.54	0.54
13:G6:201:CYC:CGA	13:G6:201:CYC:CMA	2.86	0.54
3:M6:167:ARG:HH22	3:R6:115:ARG:CZ	2.20	0.54
2:Q6:91:HIS:CG	13:Q6:201:CYC:CAB	2.90	0.54
2:S6:88:ASP:CG	13:S6:1001:CYC:HHB	2.32	0.54
13:X6:202:CYC:CGA	13:X6:202:CYC:CMA	2.85	0.54
2:D7:34:ARG:HH12	2:D7:146:GLN:CD	2.10	0.54
3:K7:57:ALA:O	3:K7:61:PHE:CD2	2.60	0.54
7:E8:25:ARG:CG	7:K9:25:ARG:CZ	2.85	0.54
7:J8:69:GLY:HA3	7:X9:63:PRO:HD2	1.89	0.54
7:L8:125:ALA:CB	13:L8:1001:CYC:HMC2	2.33	0.54
7:O8:19:SER:HB3	7:O8:22:GLU:HG3	1.90	0.54
13:d8:1001:CYC:CGA	10:09:1004:ARG:HD2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e8:7:SER:OG	7:e8:25:ARG:NH2	2.39	0.54
7:T9:121:THR:HB	13:T9:1001:CYC:HMC3	1.87	0.54
7:X9:65:VAL:HG12	13:X9:1001:CYC:OC	2.03	0.54
3:CA:53:VAL:HG21	3:CA:88:GLU:HB3	1.88	0.54
3:MA:53:VAL:HG21	3:MA:88:GLU:HB3	1.88	0.54
3:MA:85:ARG:HD3	4:NA:249:TYR:HB2	1.88	0.54
3:RA:53:VAL:HG21	3:RA:88:GLU:HB3	1.88	0.54
1:A1:198:PHE:HZ	7:c8:86:ASP:HB2	1.71	0.54
2:F1:94:ARG:HH21	3:G1:14:ASP:HA	1.71	0.54
3:I1:73:ASN:ND2	3:I1:123:THR:HG23	2.22	0.54
13:M1:201:CYC:NC	13:M1:201:CYC:HMD3	2.23	0.54
3:P1:123:THR:HG23	13:P1:201:CYC:C1C	2.38	0.54
5:A2:60:GLU:C	5:A2:62:LEU:CD1	2.76	0.54
5:A2:198:LEU:HD12	7:d9:52:LYS:HG2	1.90	0.54
13:K2:202:CYC:CGA	13:K2:202:CYC:CMA	2.85	0.54
2:S2:35:ALA:O	2:S2:38:SER:N	2.40	0.54
3:Z2:121:LEU:HD21	13:Z2:202:CYC:HAA2	1.88	0.54
6:A3:68:LEU:HB3	6:A3:82:PHE:HE2	1.73	0.54
6:A3:83:ILE:HD11	6:A3:159:PRO:HG3	1.88	0.54
2:B3:29:ARG:HH12	3:C3:36:ASN:ND2	2.03	0.54
3:C3:154:CYS:CB	13:C3:201:CYC:HBC1	2.35	0.54
13:C3:201:CYC:HAB1	2:J3:34:ARG:CZ	2.37	0.54
13:E3:202:CYC:CMA	13:E3:202:CYC:HB	2.19	0.54
2:F3:27:SER:OG	2:L3:27:SER:HB3	2.06	0.54
3:G3:40:ASP:CG	3:G3:149:ILE:HD12	2.31	0.54
3:G3:86:ASP:OD1	13:G3:201:CYC:CHD	2.40	0.54
3:I3:76:THR:OG1	3:I3:77:ASN:N	2.39	0.54
3:K3:83:CYS:CA	13:K3:201:CYC:HMB3	2.37	0.54
1:A4:58:VAL:HG11	1:A4:95:LEU:HD21	1.89	0.54
2:F5:62:GLN:NE2	3:G7:71:GLY:HA2	2.15	0.54
13:M5:1002:CYC:NC	13:M5:1002:CYC:HMD3	2.23	0.54
3:Z5:53:VAL:HG21	3:Z5:88:GLU:HB3	1.88	0.54
3:K6:83:CYS:CA	13:K6:201:CYC:HMB3	2.37	0.54
3:K6:87:MET:CE	13:K6:201:CYC:HMB1	2.37	0.54
3:M6:76:THR:OG1	3:M6:77:ASN:N	2.39	0.54
3:M6:150:THR:O	13:M6:201:CYC:NB	2.40	0.54
4:N6:264:GLU:HA	4:N6:264:GLU:OE2	2.07	0.54
13:N6:302:CYC:C2A	3:T6:82:ALA:HB1	2.37	0.54
3:V6:44:ARG:CZ	3:V6:149:ILE:HG13	2.35	0.54
2:B7:29:ARG:NH1	3:C7:36:ASN:OD1	2.40	0.54
2:F7:27:SER:OG	2:L7:27:SER:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L7:6:ILE:HD11	2:L7:32:TYR:HE1	1.73	0.54
7:E8:20:PRO:CG	7:K9:101:VAL:HG22	2.36	0.54
8:I8:88:TYR:HE2	8:I8:91:ARG:HH21	1.56	0.54
7:L8:7:SER:OG	7:L8:25:ARG:NH2	2.39	0.54
7:Q8:64:ASP:OD1	7:u9:69:GLY:C	2.49	0.54
8:k8:108:ARG:HH12	10:09:1029:THR:HA	1.69	0.54
7:r8:7:SER:OG	7:r8:25:ARG:NH2	2.39	0.54
10:19:1082:ARG:O	10:19:1082:ARG:NH1	2.39	0.54
7:P9:115:MET:CE	13:P9:1001:CYC:HHB	2.37	0.54
7:k9:115:MET:CE	13:k9:1001:CYC:HHB	2.37	0.54
7:y9:64:ASP:N	7:y9:64:ASP:OD2	2.37	0.54
3:IA:146:PRO:HB3	3:IA:151:LYS:HZ2	1.72	0.54
3:KA:154:CYS:SG	13:KA:201:CYC:HMB3	2.40	0.54
13:MA:1002:CYC:HMD3	13:MA:1002:CYC:NC	2.22	0.54
13:PA:201:CYC:HC	13:PA:201:CYC:HMD2	1.71	0.54
13:P1:201:CYC:HC	13:P1:201:CYC:HMD2	1.72	0.54
3:X1:83:CYS:SG	13:X1:201:CYC:CAC	2.95	0.54
2:D2:31:ARG:NH2	2:D2:35:ALA:HA	2.22	0.54
3:K2:43:ASN:CG	13:K2:202:CYC:CBC	2.80	0.54
3:K2:87:MET:CE	13:K2:201:CYC:HMB1	2.37	0.54
6:A3:110:LEU:CD1	6:A3:118:ALA:HB2	2.37	0.54
3:T4:36:ASN:HD22	13:T4:201:CYC:HAA2	1.69	0.54
5:A5:61:ILE:HD11	3:G5:85:ARG:HH12	1.63	0.54
5:A5:118:ARG:NH2	5:A5:150:GLU:OE2	2.40	0.54
5:A5:239:PHE:CG	7:A9:52:LYS:CE	2.89	0.54
3:V5:44:ARG:HH12	3:V5:149:ILE:CD1	2.20	0.54
5:A6:105:TYR:CD2	3:C6:113:GLY:HA3	2.42	0.54
13:C6:202:CYC:CGA	13:C6:202:CYC:CMA	2.86	0.54
3:E6:39:LEU:HD13	13:E6:202:CYC:HBB3	1.88	0.54
3:M6:89:ILE:CG2	13:N6:301:CYC:HBB3	2.37	0.54
3:R6:38:ARG:HH22	3:R6:101:GLY:HA3	1.72	0.54
2:Y6:25:LEU:HB3	13:Z6:201:CYC:CMC	2.37	0.54
6:A7:103:TYR:CE1	6:A7:125:ILE:HG23	2.43	0.54
3:G7:40:ASP:CG	3:G7:149:ILE:HD12	2.31	0.54
2:H7:31:ARG:HD3	2:H7:35:ALA:CB	2.32	0.54
8:T8:88:TYR:HE2	8:T8:91:ARG:HH21	1.56	0.54
7:V8:19:SER:HB3	7:V8:22:GLU:HG3	1.90	0.54
7:Z8:126:VAL:H	13:Z8:1001:CYC:HMC1	1.69	0.54
8:o8:72:ASN:HA	10:09:1123:SER:OG	2.06	0.54
7:G9:115:MET:CE	13:G9:1001:CYC:HHB	2.37	0.54
8:O9:63:TYR:OH	13:P9:1001:CYC:O1D	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VA:44:ARG:HH12	3:VA:149:ILE:CD1	2.20	0.54
1:A1:58:VAL:HG11	1:A1:95:LEU:HD21	1.89	0.54
3:K1:126:SER:HB3	3:T1:12:GLN:CG	2.38	0.54
3:T1:36:ASN:ND2	13:T1:201:CYC:C2A	2.71	0.54
3:E2:76:THR:HG23	3:E2:79:ARG:HG3	1.89	0.54
3:I2:115:ARG:HH21	4:N2:9:ARG:NH1	2.05	0.54
4:N2:264:GLU:OE2	4:N2:264:GLU:HA	2.07	0.54
3:P2:83:CYS:CB	13:P2:201:CYC:CAC	2.41	0.54
2:Y2:25:LEU:HB3	13:Z2:201:CYC:CMC	2.37	0.54
6:A3:83:ILE:CD1	6:A3:159:PRO:HG3	2.37	0.54
6:A3:103:TYR:CE1	6:A3:125:ILE:HG23	2.43	0.54
2:L3:85:CYS:SG	13:L3:201:CYC:HAC2	2.47	0.54
13:N3:301:CYC:NC	13:N3:301:CYC:HMD3	2.23	0.54
2:F4:119:ILE:HD13	13:F4:1001:CYC:CMA	2.35	0.54
13:G4:201:CYC:CGA	13:G4:201:CYC:CMA	2.86	0.54
2:L4:41:ALA:HA	2:L4:143:LEU:HD21	1.88	0.54
13:M4:201:CYC:NC	13:M4:201:CYC:HMD3	2.23	0.54
3:T4:36:ASN:ND2	13:T4:201:CYC:C2A	2.71	0.54
2:F5:31:ARG:NH2	3:G5:6:PHE:CE2	2.75	0.54
13:R5:201:CYC:CGA	13:R5:201:CYC:CMA	2.86	0.54
2:U5:32:TYR:CE1	3:V5:35:GLY:HA3	2.43	0.54
2:W5:22:ASN:O	2:W5:26:GLN:HG3	2.07	0.54
2:W5:36:ALA:O	2:W5:40:GLU:OE1	2.25	0.54
5:A6:247:VAL:HG11	7:C8:83:ARG:HD3	1.89	0.54
2:D6:18:ARG:NH2	2:D6:24:GLU:CD	2.66	0.54
2:L6:6:ILE:HD11	2:L6:32:TYR:HE1	1.72	0.54
3:P6:60:LEU:HD13	3:P6:87:MET:CE	2.37	0.54
3:R6:154:CYS:HB3	13:U6:201:CYC:HBC2	1.89	0.54
2:S6:32:TYR:HE1	3:T6:35:GLY:C	2.15	0.54
2:Y6:119:ILE:HD13	13:Y6:201:CYC:CMA	2.36	0.54
3:Z6:37:LYS:HB2	3:Z6:157:LEU:HD11	1.89	0.54
3:G7:82:ALA:CB	13:G7:201:CYC:HMD1	2.23	0.54
2:L7:34:ARG:O	2:L7:37:ALA:N	2.40	0.54
2:L7:100:LEU:HD21	2:L7:150:GLU:OE2	2.07	0.54
3:M7:150:THR:O	13:M7:201:CYC:NB	2.40	0.54
7:O8:7:SER:OG	7:O8:25:ARG:NH2	2.39	0.54
8:Y8:77:ARG:HH12	13:Y8:1001:CYC:CGD	2.13	0.54
8:f8:88:TYR:HE2	8:f8:91:ARG:HH21	1.56	0.54
8:m8:88:TYR:HE2	8:m8:91:ARG:HH21	1.56	0.54
8:o8:15:VAL:HG11	10:09:941:ARG:CB	2.37	0.54
10:09:461:GLU:HG2	10:09:666:LEU:HD22	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:V9:118:SER:O	12:V9:118:SER:OG	2.23	0.54
8:Y9:110:LEU:HD11	8:Y9:157:ILE:HA	1.89	0.54
7:d9:115:MET:CE	13:d9:1001:CYC:HHB	2.37	0.54
7:w9:65:VAL:HG12	13:w9:1001:CYC:OC	2.03	0.54
8:z9:129:GLN:HA	8:z9:129:GLN:OE1	2.08	0.54
13:CA:201:CYC:CGA	13:CA:201:CYC:CMA	2.86	0.54
2:WA:29:ARG:CG	13:XA:202:CYC:OC	2.39	0.54
2:WA:36:ALA:O	2:WA:40:GLU:OE1	2.25	0.54
2:D1:119:ILE:CD1	13:D1:1001:CYC:HAA1	2.29	0.54
3:I1:150:THR:OG1	13:I1:202:CYC:C3A	2.55	0.54
4:N1:179:ASP:OD2	4:N1:182:GLN:NE2	2.41	0.54
3:P1:36:ASN:HD21	13:P1:202:CYC:C3D	2.21	0.54
3:R1:86:ASP:O	3:R1:89:ILE:N	2.39	0.54
13:E2:202:CYC:CGA	13:E2:202:CYC:CMA	2.86	0.54
13:N2:301:CYC:NC	13:N2:301:CYC:HMD3	2.23	0.54
13:P2:201:CYC:HC	13:P2:201:CYC:HMD2	1.72	0.54
2:W2:34:ARG:HD2	2:W2:150:GLU:CD	2.33	0.54
2:Y2:68:THR:HA	2:Y2:76:ALA:O	2.07	0.54
3:Z2:37:LYS:HB2	3:Z2:157:LEU:HD11	1.89	0.54
6:A3:153:PHE:CD1	6:A3:159:PRO:HA	2.42	0.54
13:A3:301:CYC:CHA	3:C3:121:LEU:HD13	2.38	0.54
13:E3:202:CYC:CGA	13:E3:202:CYC:CMA	2.86	0.54
2:L3:100:LEU:HD23	2:L3:150:GLU:OE1	2.07	0.54
3:M3:76:THR:OG1	3:M3:77:ASN:N	2.39	0.54
2:D4:119:ILE:HD13	13:D4:1001:CYC:HMA2	1.90	0.54
2:L4:141:HIS:HE1	2:L4:143:LEU:O	1.90	0.54
13:Q4:202:CYC:NA	3:R4:40:ASP:OD2	2.41	0.54
3:T4:79:ARG:O	13:T4:202:CYC:HMA2	2.08	0.54
3:E5:39:LEU:HD21	13:E5:201:CYC:HBB1	1.85	0.54
3:I5:128:VAL:HG22	13:I5:201:CYC:HMC3	1.90	0.54
13:M5:1002:CYC:HBA2	13:M5:1002:CYC:CHA	2.24	0.54
13:Z5:202:CYC:CGA	13:Z5:202:CYC:CMA	2.86	0.54
5:A6:103:ASN:OD1	3:C6:112:ASN:ND2	2.41	0.54
2:B6:76:ALA:HA	2:B6:81:GLY:HA3	1.90	0.54
3:G6:66:GLN:HG3	7:N9:66:VAL:HG12	1.89	0.54
3:G6:154:CYS:SG	13:G6:201:CYC:CBC	2.82	0.54
3:K6:57:ALA:O	3:K6:61:PHE:CD2	2.60	0.54
3:P6:34:GLU:HA	3:P6:37:LYS:NZ	2.23	0.54
2:Q6:153:THR:CG2	3:V6:43:ASN:HD21	2.20	0.54
2:Y6:68:THR:HA	2:Y6:76:ALA:O	2.07	0.54
6:A7:46:ILE:HG12	6:A7:72:LEU:CD1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:95:GLN:HA	6:A7:95:GLN:OE1	2.08	0.54
6:A7:110:LEU:CD2	6:A7:114:LEU:CD1	2.79	0.54
6:A7:110:LEU:CD1	6:A7:118:ALA:HB2	2.37	0.54
13:A7:301:CYC:CHA	3:C7:121:LEU:HD13	2.38	0.54
2:F7:74:GLN:OE1	2:F7:74:GLN:N	2.29	0.54
7:S8:44:THR:HG22	8:T8:19:TYR:HB2	1.90	0.54
7:S8:105:GLU:HA	7:S8:109:VAL:HB	1.89	0.54
8:a8:88:TYR:HE2	8:a8:91:ARG:HH21	1.56	0.54
7:c8:13:ALA:CA	10:09:996:ARG:NH1	2.70	0.54
7:c8:19:SER:HB3	7:c8:22:GLU:HG3	1.90	0.54
8:k8:88:TYR:HE2	8:k8:91:ARG:HH21	1.56	0.54
8:s8:88:TYR:HE2	8:s8:91:ARG:HH21	1.56	0.54
7:N9:115:MET:CE	13:N9:1001:CYC:HHB	2.37	0.54
7:Z9:115:MET:CE	13:Z9:1001:CYC:HHB	2.37	0.54
13:EA:201:CYC:CGA	13:EA:201:CYC:CMA	2.86	0.54
13:IA:202:CYC:CGA	13:IA:202:CYC:CMA	2.86	0.54
1:A1:3:ILE:HG23	3:C1:78:ARG:HD3	1.88	0.54
1:A1:15:GLN:OE1	1:A1:162:ARG:NE	2.40	0.54
1:A1:212:PHE:O	7:l8:66:VAL:CG2	2.50	0.54
2:F1:25:LEU:CD2	13:G1:201:CYC:HBB3	2.31	0.54
4:N1:21:VAL:HG22	4:N1:148:VAL:CG1	2.37	0.54
2:S1:91:HIS:HB2	13:S1:1001:CYC:CMB	2.37	0.54
2:U1:91:HIS:HB3	13:U1:1001:CYC:HBB3	1.89	0.54
4:N2:165:PHE:CZ	13:N2:302:CYC:HAD1	2.42	0.54
3:T2:38:ARG:HG3	3:T2:157:LEU:HD21	1.88	0.54
13:T2:201:CYC:CGA	13:T2:201:CYC:CMA	2.86	0.54
2:Y2:88:ASP:HA	13:Y2:201:CYC:HMB2	1.89	0.54
6:A3:90:GLU:CG	2:J3:16:GLN:HE21	2.15	0.54
2:B3:76:ALA:HA	2:B3:81:GLY:HA3	1.90	0.54
1:A4:95:LEU:HG	1:A4:176:ARG:HE	1.73	0.54
1:A4:207:ILE:HG12	7:V8:59:PHE:CG	2.43	0.54
1:A4:209:THR:HG21	7:V8:66:VAL:O	2.07	0.54
3:C4:118:TYR:HE2	3:C4:128:VAL:HG21	1.72	0.54
13:K4:202:CYC:CMA	13:K4:202:CYC:CGA	2.86	0.54
13:X4:202:CYC:CGA	13:X4:202:CYC:CMA	2.85	0.54
3:R5:154:CYS:HB2	13:R5:201:CYC:H2C	1.90	0.54
3:I6:115:ARG:HH21	4:N6:9:ARG:NH1	2.05	0.54
2:S6:150:GLU:HA	2:S6:150:GLU:OE1	2.07	0.54
3:T6:37:LYS:HB3	3:T6:157:LEU:HD12	1.89	0.54
2:Y6:31:ARG:O	2:Y6:35:ALA:N	2.37	0.54
6:A7:83:ILE:CD1	6:A7:159:PRO:HG3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:153:PHE:CD1	6:A7:159:PRO:HA	2.42	0.54
3:E7:76:THR:HG23	3:E7:79:ARG:HG3	1.89	0.54
7:C8:110:ILE:CD1	10:09:542:GLU:HG2	2.37	0.54
7:E8:105:GLU:HA	7:E8:109:VAL:HB	1.89	0.54
8:F8:109:VAL:CG1	13:F8:1001:CYC:CAB	2.73	0.54
8:I8:74:TYR:OH	7:J8:90:ARG:NH2	2.39	0.54
7:g8:19:SER:HB3	7:g8:22:GLU:HG3	1.90	0.54
8:q8:88:TYR:HE2	8:q8:91:ARG:HH21	1.56	0.54
7:r8:19:SER:HB3	7:r8:22:GLU:HG3	1.90	0.54
10:09:322:MET:HE2	10:09:401:VAL:HG22	1.90	0.54
7:A9:64:ASP:N	7:A9:64:ASP:OD2	2.37	0.54
8:J9:110:LEU:HD11	8:J9:157:ILE:HA	1.89	0.54
7:T9:64:ASP:N	7:T9:64:ASP:OD2	2.37	0.54
7:d9:35:GLN:OE1	7:d9:38:ARG:NH2	2.41	0.54
7:i9:35:GLN:OE1	7:i9:38:ARG:NH2	2.41	0.54
7:k9:90:ARG:HD2	8:l9:18:LYS:O	2.07	0.54
2:BA:35:ALA:HB3	3:CA:32:VAL:CG1	2.37	0.54
3:TA:40:ASP:HB3	13:TA:202:CYC:HHB	1.88	0.54
3:VA:89:ILE:HG13	13:VA:201:CYC:HMC1	1.79	0.54
13:P1:201:CYC:HB	13:P1:201:CYC:CMA	2.19	0.54
3:X1:128:VAL:HG23	13:X1:201:CYC:HMC3	1.90	0.54
5:A2:99:VAL:HA	5:A2:107:LEU:HD21	1.88	0.54
2:D2:31:ARG:NH2	2:D2:35:ALA:CA	2.70	0.54
3:E2:39:LEU:HD13	13:E2:202:CYC:HBB3	1.88	0.54
2:H2:32:TYR:N	2:H2:32:TYR:CD1	2.75	0.54
2:Y2:25:LEU:HB3	13:Z2:201:CYC:HMC3	1.90	0.54
2:B3:29:ARG:NH1	3:C3:36:ASN:OD1	2.40	0.54
2:D3:74:GLN:OE1	2:D3:124:ASP:CB	2.54	0.54
2:F3:61:TYR:HH	2:F3:85:CYS:HG	1.56	0.54
3:C4:152:GLY:N	13:C4:302:CYC:CMD	2.70	0.54
2:W4:60:VAL:HG11	13:W4:1001:CYC:HMC1	1.89	0.54
3:X4:128:VAL:HG23	13:X4:201:CYC:HMC3	1.90	0.54
13:N6:301:CYC:NC	13:N6:301:CYC:HMD3	2.23	0.54
3:R6:154:CYS:HB3	13:U6:201:CYC:CBC	2.37	0.54
2:Y6:25:LEU:HB3	13:Z6:201:CYC:HMC3	1.90	0.54
6:A7:68:LEU:HB3	6:A7:82:PHE:HE2	1.73	0.54
2:D7:31:ARG:NH2	2:D7:35:ALA:HA	2.22	0.54
13:M7:201:CYC:CGA	13:M7:201:CYC:CMA	2.86	0.54
8:M8:88:TYR:HE2	8:M8:91:ARG:HH21	1.56	0.54
7:O8:78:THR:C	5:AA:241:ILE:CD1	2.81	0.54
10:09:1091:TYR:HE2	10:09:1093:ARG:HD3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A9:115:MET:CE	13:A9:1001:CYC:HHB	2.37	0.54
7:N9:35:GLN:OE1	7:N9:38:ARG:NH2	2.41	0.54
8:j9:110:LEU:HD11	8:j9:157:ILE:HA	1.89	0.54
8:z9:110:LEU:HD11	8:z9:157:ILE:HA	1.89	0.54
5:AA:52:TYR:CE2	5:AA:71:GLU:OE2	2.61	0.54
5:AA:64:PHE:HZ	2:JA:18:ARG:CZ	2.20	0.54
3:CA:68:ILE:HD12	13:DA:1001:CYC:O2A	2.05	0.54
3:MA:85:ARG:NH2	13:MA:1002:CYC:O1A	2.41	0.54
4:NA:91:PHE:CE1	13:NA:301:CYC:OB	2.61	0.54
1:A1:168:ARG:NH2	1:A1:172:LEU:CD2	2.64	0.54
2:D1:119:ILE:HD13	13:D1:1001:CYC:HMA2	1.90	0.54
2:L1:40:GLU:N	2:L1:40:GLU:OE1	2.40	0.54
3:V1:68:ILE:HD13	13:W1:1001:CYC:CGA	2.38	0.54
2:W1:85:CYS:CA	13:W1:1001:CYC:HAC2	2.36	0.54
5:A2:190:VAL:C	7:d9:75:GLN:NE2	2.63	0.54
3:C2:75:TYR:HH	2:D2:94:ARG:NH1	2.04	0.54
13:N2:302:CYC:C2A	3:T2:82:ALA:HB1	2.37	0.54
2:Q2:31:ARG:HH11	2:Q2:103:GLY:N	2.05	0.54
2:U2:123:PHE:CD2	13:U2:202:CYC:HAA2	2.42	0.54
2:Y2:119:ILE:CD1	13:Y2:201:CYC:HMA3	2.35	0.54
3:K3:43:ASN:CG	13:K3:202:CYC:CBC	2.80	0.54
2:B4:22:ASN:ND2	2:J4:150:GLU:OE1	2.41	0.54
2:F4:85:CYS:CA	13:F4:1001:CYC:HAC2	2.33	0.54
3:K4:121:LEU:HD11	13:K4:201:CYC:HAA2	1.89	0.54
4:N4:155:GLU:C	4:N4:157:GLN:CD	2.75	0.54
13:T4:201:CYC:CGA	13:T4:201:CYC:CMA	2.86	0.54
3:V4:68:ILE:HD13	13:W4:1001:CYC:CGA	2.38	0.54
3:X4:87:MET:SD	13:X4:201:CYC:HBC1	2.48	0.54
5:A5:166:ARG:HH22	5:A5:171:PRO:HD3	1.73	0.54
2:L5:34:ARG:NE	2:L5:150:GLU:CD	2.66	0.54
2:B6:125:LEU:HD11	13:B6:1001:CYC:CHA	2.38	0.54
2:D6:74:GLN:OE1	2:D6:124:ASP:CB	2.54	0.54
4:N6:154:PHE:O	4:N6:165:PHE:CE2	2.59	0.54
2:W6:31:ARG:HD3	2:W6:31:ARG:C	2.33	0.54
2:W6:34:ARG:HD2	2:W6:150:GLU:CD	2.33	0.54
2:B7:76:ALA:HA	2:B7:81:GLY:HA3	1.90	0.54
2:L7:33:GLU:HA	2:L7:33:GLU:OE1	2.06	0.54
2:L7:100:LEU:CD2	2:L7:150:GLU:CD	2.80	0.54
4:N7:264:GLU:HA	4:N7:264:GLU:OE2	2.07	0.54
8:K8:77:ARG:CZ	13:K8:1001:CYC:O1D	2.56	0.54
7:O8:105:GLU:HA	7:O8:109:VAL:HB	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T8:48:ASN:HB3	7:w9:131:ARG:NH2	2.22	0.54
8:Y8:77:ARG:CZ	13:Y8:1001:CYC:O1D	2.56	0.54
7:j8:114:GLU:OE2	10:09:992:ASP:OD1	2.24	0.54
10:09:673:LEU:HB3	8:H9:111:ASN:OD1	2.07	0.54
10:19:497:ILE:O	10:19:503:ASN:ND2	2.40	0.54
10:19:643:ASP:O	10:19:647:ASP:HB2	2.08	0.54
7:A9:35:GLN:OE1	7:A9:38:ARG:NH2	2.41	0.54
8:H9:110:LEU:HD11	8:H9:157:ILE:HA	1.89	0.54
7:P9:35:GLN:OE1	7:P9:38:ARG:NH2	2.41	0.54
7:Z9:35:GLN:OE1	7:Z9:38:ARG:NH2	2.41	0.54
7:b9:35:GLN:OE1	7:b9:38:ARG:NH2	2.41	0.54
7:o9:35:GLN:OE1	7:o9:38:ARG:NH2	2.41	0.54
7:u9:35:GLN:OE1	7:u9:38:ARG:NH2	2.41	0.54
13:AA:302:CYC:HMC2	3:EA:128:VAL:CG2	2.37	0.54
3:RA:36:ASN:ND2	13:RA:201:CYC:HAA2	2.16	0.54
13:O1:1001:CYC:C4B	3:T1:77:ASN:OD1	2.56	0.54
2:W1:60:VAL:HG11	13:W1:1001:CYC:HMC1	1.89	0.54
2:D2:74:GLN:OE1	2:D2:124:ASP:CB	2.54	0.54
2:F2:85:CYS:SG	13:F2:1001:CYC:HAC2	2.48	0.54
3:G2:82:ALA:CB	13:G2:202:CYC:HMD1	2.23	0.54
2:S2:150:GLU:HA	2:S2:150:GLU:OE1	2.07	0.54
3:C3:76:THR:OG1	3:C3:77:ASN:N	2.39	0.54
3:I3:146:PRO:HB2	3:I3:151:LYS:HE2	1.90	0.54
13:I3:202:CYC:CGA	13:I3:202:CYC:CMA	2.86	0.54
2:B4:94:ARG:HG3	3:C4:19:PHE:CE1	2.43	0.54
2:D4:41:ALA:HA	2:D4:143:LEU:HD21	1.90	0.54
13:M4:202:CYC:CGA	13:M4:202:CYC:CMA	2.86	0.54
3:X4:73:ASN:ND2	3:X4:123:THR:HG23	2.22	0.54
3:Z4:40:ASP:OD2	13:Z4:201:CYC:C4A	2.55	0.54
3:Z4:119:GLN:N	3:Z4:119:GLN:OE1	2.41	0.54
3:C5:68:ILE:HD12	13:D5:1001:CYC:O2A	2.05	0.54
4:N5:91:PHE:CE1	13:N5:301:CYC:OB	2.61	0.54
5:A6:60:GLU:C	5:A6:62:LEU:CD1	2.76	0.54
13:M6:201:CYC:CGA	13:M6:201:CYC:CMA	2.86	0.54
4:N6:165:PHE:CZ	13:N6:302:CYC:HAD1	2.43	0.54
3:Z6:151:LYS:C	13:Z6:201:CYC:OB	2.50	0.54
2:D7:26:GLN:OE1	2:H7:5:PRO:HG2	2.07	0.54
13:E7:202:CYC:CGA	13:E7:202:CYC:CMA	2.86	0.54
2:L7:85:CYS:SG	13:L7:201:CYC:HAC2	2.47	0.54
13:N7:301:CYC:NB	13:N7:301:CYC:HMA3	2.23	0.54
7:E8:20:PRO:HG2	7:K9:101:VAL:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:c8:126:VAL:H	13:c8:1001:CYC:HMC1	1.69	0.54
8:m8:68:ARG:NH1	10:09:937:TYR:CE2	2.76	0.54
8:q8:77:ARG:CZ	13:q8:1001:CYC:O1D	2.56	0.54
8:s8:77:ARG:CZ	13:s8:1001:CYC:O1D	2.56	0.54
7:t8:19:SER:HB3	7:t8:22:GLU:HG3	1.90	0.54
10:09:163:SER:O	8:M9:19:TYR:OH	2.26	0.54
10:09:603:TYR:HB2	8:J9:111:ASN:HD22	1.73	0.54
8:M9:110:LEU:HD11	8:M9:157:ILE:HA	1.89	0.54
7:q9:35:GLN:OE1	7:q9:38:ARG:NH2	2.41	0.54
3:C1:119:GLN:N	3:C1:119:GLN:OE1	2.42	0.53
2:D1:41:ALA:HA	2:D1:143:LEU:HD21	1.90	0.53
13:I1:202:CYC:CGA	13:I1:202:CYC:CMA	2.86	0.53
3:M1:119:GLN:N	3:M1:119:GLN:OE1	2.42	0.53
13:M1:201:CYC:HC	13:M1:201:CYC:HMD2	1.73	0.53
13:M1:201:CYC:HB	13:M1:201:CYC:HMA2	1.73	0.53
13:C2:202:CYC:CGA	13:C2:202:CYC:CMA	2.86	0.53
13:N2:301:CYC:HMA3	13:N2:301:CYC:NB	2.23	0.53
2:W2:31:ARG:HD3	2:W2:31:ARG:C	2.33	0.53
2:Y2:119:ILE:HD13	13:Y2:201:CYC:CMA	2.36	0.53
6:A3:46:ILE:HG12	6:A3:72:LEU:CD1	2.38	0.53
6:A3:64:ARG:HH21	6:A3:64:ARG:CG	2.12	0.53
6:A3:73:ARG:HH11	6:A3:73:ARG:CG	2.12	0.53
2:B3:22:ASN:O	2:B3:26:GLN:CG	2.42	0.53
2:B3:125:LEU:HD11	13:B3:1001:CYC:CHA	2.38	0.53
2:D3:61:TYR:HH	2:D3:85:CYS:HG	1.54	0.53
2:F3:85:CYS:SG	13:F3:1001:CYC:HAC2	2.48	0.53
3:G4:124:PRO:HG2	3:G4:127:SER:HB2	1.91	0.53
4:N4:179:ASP:OD2	4:N4:182:GLN:NE2	2.41	0.53
13:Q4:202:CYC:HBB2	3:R4:39:LEU:HD13	1.89	0.53
5:A5:64:PHE:HZ	2:J5:18:ARG:CD	2.15	0.53
2:B5:35:ALA:HB3	3:C5:32:VAL:CG1	2.37	0.53
13:K5:201:CYC:CGA	13:K5:201:CYC:CMA	2.86	0.53
3:T5:154:CYS:SG	13:T5:202:CYC:CBC	2.96	0.53
2:B6:31:ARG:NH1	2:B6:102:ALA:C	2.63	0.53
2:D6:85:CYS:SG	13:D6:1001:CYC:H2C	2.48	0.53
2:F6:85:CYS:SG	13:F6:1001:CYC:HAC2	2.48	0.53
3:T6:153:ASP:OD1	3:T6:153:ASP:N	2.39	0.53
2:W6:29:ARG:HH11	13:X6:202:CYC:C1C	2.21	0.53
2:L7:100:LEU:HD23	2:L7:150:GLU:OE1	2.07	0.53
8:D8:88:TYR:HE2	8:D8:91:ARG:HH21	1.56	0.53
8:m8:120:LEU:CD2	10:09:948:GLY:O	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:n8:19:SER:HB3	7:n8:22:GLU:HG3	1.90	0.53
7:t8:105:GLU:HA	7:t8:109:VAL:HB	1.89	0.53
7:G9:35:GLN:OE1	7:G9:38:ARG:NH2	2.41	0.53
8:L9:18:LYS:HD2	11:Q9:132:GLN:HG2	1.90	0.53
7:i9:115:MET:CE	13:i9:1001:CYC:HHB	2.37	0.53
8:r9:110:LEU:HD11	8:r9:157:ILE:HA	1.89	0.53
5:AA:72:SER:O	13:AA:304:CYC:CBD	2.51	0.53
2:FA:34:ARG:NH2	13:MA:1003:CYC:CBC	2.69	0.53
2:LA:34:ARG:NE	2:LA:150:GLU:CD	2.66	0.53
13:TA:202:CYC:CGA	13:TA:202:CYC:CMA	2.86	0.53
3:ZA:154:CYS:HB3	13:ZA:202:CYC:HAB1	1.90	0.53
1:A1:209:THR:HG22	7:c8:67:SER:N	2.21	0.53
3:C1:23:GLU:OE2	7:c8:48:GLU:OE1	2.25	0.53
3:I1:119:GLN:N	3:I1:119:GLN:OE1	2.42	0.53
3:K1:83:CYS:O	3:K1:87:MET:HG2	2.09	0.53
3:V1:119:GLN:N	3:V1:119:GLN:OE1	2.42	0.53
2:F2:85:CYS:HA	13:F2:1001:CYC:HAC2	1.89	0.53
2:L2:6:ILE:HD11	2:L2:32:TYR:HE1	1.72	0.53
3:R2:38:ARG:HH22	3:R2:101:GLY:HA3	1.72	0.53
3:V2:44:ARG:HH22	3:V2:149:ILE:HG12	1.70	0.53
2:W2:29:ARG:NH2	13:W2:203:CYC:HMD2	2.23	0.53
2:W2:33:GLU:N	2:W2:33:GLU:OE1	2.41	0.53
6:A3:8:TYR:CD2	6:A3:123:GLU:HG3	2.43	0.53
2:D3:85:CYS:SG	13:D3:1001:CYC:H2C	2.48	0.53
2:H3:31:ARG:NH2	2:H3:35:ALA:HA	2.22	0.53
13:C4:302:CYC:CGA	13:C4:302:CYC:CMA	2.86	0.53
3:P4:119:GLN:N	3:P4:119:GLN:OE1	2.42	0.53
13:Z4:201:CYC:CGA	13:Z4:201:CYC:CMA	2.86	0.53
13:C5:201:CYC:CGA	13:C5:201:CYC:CMA	2.86	0.53
4:N5:162:THR:CG2	13:T5:201:CYC:CAC	2.82	0.53
3:V5:123:THR:HB	13:V5:201:CYC:O1A	2.08	0.53
5:A6:212:ARG:CZ	8:M9:68:ARG:CZ	2.77	0.53
3:C6:75:TYR:HH	2:D6:94:ARG:NH1	2.04	0.53
2:D6:103:GLY:C	2:H6:26:GLN:HE22	2.17	0.53
2:Q6:31:ARG:HH11	2:Q6:103:GLY:N	2.05	0.53
3:R6:85:ARG:HD2	3:R6:86:ASP:HB3	1.90	0.53
6:A7:90:GLU:CG	2:J7:16:GLN:HE21	2.15	0.53
13:C7:201:CYC:CGA	13:C7:201:CYC:CMA	2.86	0.53
13:C7:201:CYC:HAB1	2:J7:34:ARG:CZ	2.37	0.53
7:C8:19:SER:HB3	7:C8:22:GLU:HG3	1.90	0.53
8:I8:77:ARG:CZ	13:I8:1001:CYC:O1D	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e8:19:SER:HB3	7:e8:22:GLU:HG3	1.90	0.53
8:o8:88:TYR:CE1	8:o8:109:VAL:HG12	2.38	0.53
8:u8:88:TYR:HE2	8:u8:91:ARG:HH21	1.56	0.53
10:09:359:ARG:NH1	10:09:360:GLY:O	2.41	0.53
10:19:818:ALA:H	10:19:875:THR:HG22	1.73	0.53
9:49:38:PHE:HZ	8:F9:88:TYR:HH	1.56	0.53
7:I9:23:LEU:HB3	8:J9:39:VAL:HG13	1.88	0.53
3:EA:39:LEU:HD21	13:EA:201:CYC:HBB1	1.85	0.53
3:XA:74:ALA:HB2	13:XA:201:CYC:OC	2.08	0.53
3:T1:79:ARG:O	13:T1:202:CYC:HMA2	2.08	0.53
3:X1:76:THR:HG22	3:X1:79:ARG:HD2	1.90	0.53
3:X1:87:MET:SD	13:X1:201:CYC:HBC1	2.48	0.53
3:Z1:119:GLN:N	3:Z1:119:GLN:OE1	2.42	0.53
5:A2:240:ASP:C	5:A2:242:ASP:N	2.62	0.53
3:M2:89:ILE:HG21	13:N2:301:CYC:HBB3	1.90	0.53
2:O2:34:ARG:NH1	13:W2:203:CYC:CBC	2.65	0.53
3:T2:154:CYS:O	3:T2:158:ILE:HG13	2.08	0.53
3:V2:76:THR:OG1	3:V2:77:ASN:N	2.39	0.53
3:V2:89:ILE:CD1	13:V2:202:CYC:HMC3	2.39	0.53
6:A3:95:GLN:OE1	6:A3:95:GLN:HA	2.08	0.53
13:G3:202:CYC:CGA	13:G3:202:CYC:CMA	2.86	0.53
13:K3:201:CYC:CGA	13:K3:201:CYC:CMA	2.86	0.53
2:L3:6:ILE:HD11	2:L3:32:TYR:HE1	1.73	0.53
13:N3:301:CYC:HC	13:N3:301:CYC:HMD2	1.74	0.53
4:N4:21:VAL:HG22	4:N4:148:VAL:CG1	2.37	0.53
3:V4:119:GLN:N	3:V4:119:GLN:OE1	2.42	0.53
13:V4:201:CYC:CGA	13:V4:201:CYC:CMA	2.86	0.53
2:D5:34:ARG:CZ	2:D5:150:GLU:OE2	2.55	0.53
2:F5:14:ASP:OD1	3:G5:92:ARG:NH1	2.32	0.53
2:F5:61:TYR:HH	2:F5:85:CYS:HG	1.55	0.53
5:A6:195:ARG:HH22	3:G6:66:GLN:HE22	1.57	0.53
5:A6:223:ALA:O	5:A6:226:VAL:CG1	2.57	0.53
5:A6:250:ARG:O	8:B8:63:TYR:HB2	2.07	0.53
3:M6:89:ILE:HG21	13:N6:301:CYC:HBB3	1.91	0.53
2:O6:26:GLN:NE2	2:W6:103:GLY:O	2.41	0.53
6:A7:57:HIS:O	6:A7:60:ILE:HG12	2.08	0.53
8:K8:88:TYR:HE2	8:K8:91:ARG:HH21	1.56	0.53
7:Q8:19:SER:HB3	7:Q8:22:GLU:HG3	1.90	0.53
7:V8:101:VAL:HG11	7:p8:20:PRO:HG2	1.90	0.53
7:e8:105:GLU:HA	7:e8:109:VAL:HB	1.89	0.53
13:k8:1001:CYC:HBB2	10:09:1033:ASN:ND2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:s8:78:ARG:HH12	10:19:947:VAL:CA	2.21	0.53
7:I9:35:GLN:OE1	7:I9:38:ARG:NH2	2.41	0.53
7:N9:64:ASP:N	7:N9:64:ASP:OD2	2.37	0.53
7:s9:35:GLN:OE1	7:s9:38:ARG:NH2	2.41	0.53
7:w9:35:GLN:OE1	7:w9:38:ARG:NH2	2.41	0.53
7:w9:115:MET:CE	13:w9:1001:CYC:HHB	2.37	0.53
7:y9:35:GLN:OE1	7:y9:38:ARG:NH2	2.41	0.53
1:A1:212:PHE:HB3	7:l8:67:SER:CA	2.38	0.53
2:B1:22:ASN:ND2	2:J1:150:GLU:OE1	2.41	0.53
2:B1:94:ARG:HG3	3:C1:19:PHE:CE1	2.43	0.53
13:M1:201:CYC:HMA3	13:M1:201:CYC:NB	2.23	0.53
2:O1:94:ARG:NH2	3:P1:14:ASP:OD2	2.42	0.53
13:Z1:201:CYC:CGA	13:Z1:201:CYC:CMA	2.86	0.53
3:C2:79:ARG:O	13:C2:201:CYC:HMD3	2.09	0.53
2:D2:85:CYS:SG	13:D2:1001:CYC:H2C	2.48	0.53
13:I2:201:CYC:HMA2	4:N2:266:LEU:CD2	2.38	0.53
3:K2:89:ILE:HG21	13:K2:201:CYC:HMC3	1.91	0.53
2:S2:29:ARG:HH21	2:S2:29:ARG:CG	2.21	0.53
3:V2:43:ASN:ND2	13:V2:201:CYC:CBC	2.70	0.53
13:V2:201:CYC:CGA	13:V2:201:CYC:CMA	2.86	0.53
2:D3:103:GLY:C	2:H3:26:GLN:HE22	2.17	0.53
3:K3:89:ILE:HG21	13:K3:201:CYC:HMC3	1.91	0.53
3:C4:78:ARG:HD2	3:C4:78:ARG:C	2.32	0.53
13:M4:201:CYC:NB	13:M4:201:CYC:HMA3	2.23	0.53
3:T4:152:GLY:CA	13:T4:201:CYC:HMD2	2.38	0.53
5:A5:59:HIS:HE1	3:G5:86:ASP:OD1	1.91	0.53
5:A5:222:LEU:HG	7:q9:52:LYS:HG3	1.88	0.53
2:F5:34:ARG:CZ	13:M5:1003:CYC:H2C	2.39	0.53
3:T5:36:ASN:ND2	13:T5:202:CYC:HAA2	2.21	0.53
3:I6:146:PRO:HB2	3:I6:151:LYS:HE2	1.90	0.53
13:K6:201:CYC:CGA	13:K6:201:CYC:CMA	2.86	0.53
2:U6:123:PHE:CD2	13:U6:202:CYC:HAA2	2.43	0.53
3:Z6:40:ASP:OD1	13:Z6:201:CYC:C1D	2.55	0.53
2:F7:85:CYS:SG	13:F7:1001:CYC:HAC2	2.48	0.53
7:H8:80:THR:HG21	8:M8:63:TYR:HE1	1.72	0.53
7:J8:105:GLU:HA	7:J8:109:VAL:HB	1.89	0.53
7:O8:68:PRO:HD2	5:AA:231:ASN:CB	2.38	0.53
7:S8:7:SER:OG	7:S8:25:ARG:NH2	2.39	0.53
8:T8:50:ALA:HB3	7:w9:161:GLN:OE1	2.09	0.53
7:n8:15:ALA:CB	10:09:989:GLN:CG	2.75	0.53
7:p8:19:SER:HB3	7:p8:22:GLU:HG3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:r8:125:ALA:CB	13:r8:1001:CYC:HMC2	2.33	0.53
10:09:462:ILE:HG13	10:09:465:GLY:H	1.72	0.53
8:D9:110:LEU:HD11	8:D9:157:ILE:HA	1.89	0.53
7:T9:35:GLN:OE1	7:T9:38:ARG:NH2	2.41	0.53
7:T9:94:TYR:OH	8:U9:18:LYS:O	2.27	0.53
7:b9:115:MET:CE	13:b9:1001:CYC:HHB	2.37	0.53
7:i9:64:ASP:OD2	7:i9:64:ASP:N	2.37	0.53
7:w9:78:THR:HG21	5:AA:223:ALA:HB1	1.86	0.53
3:TA:154:CYS:SG	13:TA:202:CYC:CBC	2.96	0.53
3:E1:119:GLN:N	3:E1:119:GLN:OE1	2.42	0.53
3:G1:119:GLN:N	3:G1:119:GLN:OE1	2.42	0.53
3:K1:152:GLY:CA	13:K1:202:CYC:HMA3	2.33	0.53
3:T1:83:CYS:SG	13:T1:202:CYC:C3B	2.97	0.53
3:X1:119:GLN:N	3:X1:119:GLN:OE1	2.42	0.53
2:B2:125:LEU:HD11	13:B2:1001:CYC:CHA	2.38	0.53
2:L3:34:ARG:O	2:L3:37:ALA:N	2.40	0.53
13:N3:301:CYC:HMA3	13:N3:301:CYC:NB	2.23	0.53
3:K4:126:SER:HB3	3:T4:12:GLN:CG	2.38	0.53
3:T4:119:GLN:N	3:T4:119:GLN:OE1	2.41	0.53
2:W4:150:GLU:OE1	2:W4:154:TYR:HE2	1.91	0.53
5:A5:72:SER:O	13:A5:304:CYC:CBD	2.51	0.53
3:M5:85:ARG:NH2	13:M5:1002:CYC:O1A	2.41	0.53
13:M5:1002:CYC:HMA3	13:M5:1002:CYC:NB	2.23	0.53
4:N5:70:ARG:HG3	4:N5:134:ILE:HD11	1.89	0.53
3:E6:76:THR:HG23	3:E6:79:ARG:HG3	1.89	0.53
3:G6:40:ASP:CG	3:G6:149:ILE:HD12	2.30	0.53
13:N6:301:CYC:HMA3	13:N6:301:CYC:NB	2.23	0.53
3:V6:89:ILE:CD1	13:V6:202:CYC:HMC3	2.39	0.53
2:W6:33:GLU:N	2:W6:33:GLU:OE1	2.41	0.53
6:A7:63:ASN:OD1	6:A7:91:VAL:HG21	2.08	0.53
7:A8:19:SER:HB3	7:A8:22:GLU:HG3	1.90	0.53
7:A8:151:SER:OG	7:I9:20:PRO:HB3	2.09	0.53
8:B8:84:ARG:HE	10:09:572:ILE:HD11	1.57	0.53
7:S8:19:SER:HB3	7:S8:22:GLU:HG3	1.90	0.53
8:Y8:88:TYR:HE2	8:Y8:91:ARG:HH21	1.56	0.53
7:j8:19:SER:HB3	7:j8:22:GLU:HG3	1.90	0.53
7:l8:19:SER:HB3	7:l8:22:GLU:HG3	1.90	0.53
8:m8:77:ARG:CZ	13:09:1201:CYC:O1D	2.56	0.53
7:r8:105:GLU:HA	7:r8:109:VAL:HB	1.89	0.53
10:09:731:ARG:HE	10:09:734:GLY:HA2	1.74	0.53
10:19:869:ALA:HB2	8:r9:108:ARG:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O9:110:LEU:HD11	8:O9:157:ILE:HA	1.89	0.53
7:T9:115:MET:CE	13:T9:1001:CYC:HHB	2.37	0.53
8:U9:110:LEU:HD11	8:U9:157:ILE:HA	1.89	0.53
7:X9:115:MET:CE	13:X9:1001:CYC:HHB	2.37	0.53
8:a9:110:LEU:HD11	8:a9:157:ILE:HA	1.89	0.53
7:d9:25:ARG:HD3	7:i9:25:ARG:CZ	2.39	0.53
8:h9:110:LEU:HD11	8:h9:157:ILE:HA	1.89	0.53
7:o9:79:ALA:HB1	5:AA:198:LEU:CD2	2.38	0.53
4:NA:178:SER:H	4:NA:181:ALA:HB3	1.73	0.53
2:UA:32:TYR:CE1	3:VA:35:GLY:HA3	2.43	0.53
1:A1:195:ILE:CG2	7:c8:76:GLU:O	2.57	0.53
1:A1:207:ILE:CG2	7:c8:59:PHE:CB	2.83	0.53
3:M1:26:ASP:CB	2:J3:51:ARG:NH2	2.71	0.53
3:T1:119:GLN:N	3:T1:119:GLN:OE1	2.42	0.53
3:V1:152:GLY:HA3	13:V1:201:CYC:HMA3	1.91	0.53
3:Z1:40:ASP:OD2	13:Z1:201:CYC:C4A	2.55	0.53
3:K2:76:THR:OG1	3:K2:77:ASN:N	2.39	0.53
13:N2:301:CYC:HC	13:N2:301:CYC:HMD2	1.74	0.53
3:M3:151:LYS:HA	13:M3:201:CYC:OB	2.09	0.53
2:B4:123:PHE:CE2	13:B4:1001:CYC:HAA2	2.42	0.53
2:Q4:134:LEU:HA	2:Q4:137:ILE:HD12	1.91	0.53
2:W4:20:LEU:HD13	3:X4:99:LEU:HD13	1.91	0.53
3:X4:76:THR:HG22	3:X4:79:ARG:HD2	1.90	0.53
3:C6:79:ARG:O	13:C6:201:CYC:HMD3	2.09	0.53
3:P6:54:THR:O	3:P6:58:ARG:HD3	2.08	0.53
2:S6:85:CYS:SG	13:S6:1001:CYC:CAC	2.96	0.53
3:K7:76:THR:OG1	3:K7:77:ASN:N	2.39	0.53
7:E8:7:SER:OG	7:E8:25:ARG:NH2	2.39	0.53
7:Z8:19:SER:HB3	7:Z8:22:GLU:HG3	1.90	0.53
9:b8:38:PHE:HB2	13:b8:1001:CYC:HBA1	1.91	0.53
7:r8:126:VAL:H	13:r8:1001:CYC:HMC1	1.69	0.53
10:19:304:TYR:HE1	8:h9:77:ARG:HB2	1.74	0.53
10:19:627:ASN:O	10:19:631:ASP:HB2	2.08	0.53
7:X9:35:GLN:OE1	7:X9:38:ARG:NH2	2.41	0.53
8:c9:110:LEU:HD11	8:c9:157:ILE:HA	1.89	0.53
8:p9:110:LEU:HD11	8:p9:157:ILE:HA	1.89	0.53
4:NA:162:THR:CG2	13:TA:201:CYC:CAC	2.82	0.53
1:A1:193:GLY:CA	7:c8:87:TYR:OH	2.56	0.53
3:E1:151:LYS:HZ3	2:Q2:40:GLU:HG2	1.72	0.53
3:R1:121:LEU:HD21	13:R1:1001:CYC:HAA2	1.91	0.53
2:H2:43:ARG:HG2	3:I2:25:LEU:HD13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:W2:201:CYC:CGA	13:W2:201:CYC:CMA	2.86	0.53
3:Z2:44:ARG:CZ	3:Z2:145:ASP:HB2	2.38	0.53
3:E3:39:LEU:HD13	13:E3:202:CYC:HBB2	1.91	0.53
1:A4:201:LEU:HB2	7:V8:52:LYS:HE3	1.90	0.53
1:A4:201:LEU:HD21	7:V8:51:VAL:HG12	1.89	0.53
2:B4:157:TYR:OH	2:J4:18:ARG:NH1	2.42	0.53
3:K4:119:GLN:N	3:K4:119:GLN:OE1	2.42	0.53
2:L4:134:LEU:HA	2:L4:137:ILE:HD12	1.91	0.53
3:T4:154:CYS:CB	13:T4:201:CYC:CAC	2.84	0.53
3:T5:85:ARG:HH21	13:T5:201:CYC:C4D	2.22	0.53
2:W5:31:ARG:NH2	2:W5:35:ALA:HB2	2.21	0.53
3:X5:145:ASP:OD1	3:X5:145:ASP:N	2.41	0.53
3:E6:39:LEU:HD13	13:E6:202:CYC:HBB2	1.91	0.53
13:E6:202:CYC:CGA	13:E6:202:CYC:CMA	2.86	0.53
3:I6:76:THR:OG1	3:I6:77:ASN:N	2.39	0.53
3:I6:85:ARG:HH22	4:N6:267:SER:HB3	1.74	0.53
3:K6:89:ILE:HG21	13:K6:201:CYC:HMC3	1.91	0.53
3:X6:60:LEU:HD11	3:X6:87:MET:HE1	1.90	0.53
2:Y6:123:PHE:CD2	13:Y6:201:CYC:CAA	2.91	0.53
2:D7:74:GLN:OE1	2:D7:124:ASP:CB	2.54	0.53
2:D7:85:CYS:SG	13:D7:1001:CYC:H2C	2.48	0.53
3:I7:146:PRO:HB2	3:I7:151:LYS:HE2	1.90	0.53
13:I7:201:CYC:HMA2	4:N7:266:LEU:CD2	2.38	0.53
13:N7:301:CYC:NC	13:N7:301:CYC:HMD3	2.23	0.53
7:C8:7:SER:OG	7:C8:25:ARG:NH2	2.39	0.53
7:C8:110:ILE:HD11	10:09:542:GLU:HG2	1.90	0.53
8:F8:88:TYR:HE2	8:F8:91:ARG:HH21	1.56	0.53
7:L8:19:SER:HB3	7:L8:22:GLU:HG3	1.90	0.53
7:O8:66:VAL:CG1	5:AA:234:GLN:HE21	2.18	0.53
8:R8:88:TYR:HE2	8:R8:91:ARG:HH21	1.56	0.53
7:X8:19:SER:HB3	7:X8:22:GLU:HG3	1.90	0.53
7:l8:7:SER:OG	7:l8:25:ARG:NH2	2.39	0.53
8:o8:82:CYS:SG	13:o8:1001:CYC:C3C	2.96	0.53
7:t8:83:ARG:HD3	10:19:933:LEU:CB	2.36	0.53
8:u8:77:ARG:CZ	13:19:1201:CYC:O1D	2.56	0.53
7:E9:35:GLN:OE1	7:E9:38:ARG:NH2	2.41	0.53
7:I9:30:VAL:HG13	8:J9:32:PHE:O	2.08	0.53
13:GA:1002:CYC:CGA	13:GA:1002:CYC:CMA	2.86	0.53
3:IA:128:VAL:HG22	13:IA:201:CYC:HMC3	1.90	0.53
4:N1:201:THR:HA	3:T1:116:GLU:OE2	2.09	0.53
2:B2:29:ARG:HH12	3:C2:36:ASN:ND2	2.03	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E2:76:THR:OG1	3:E2:77:ASN:N	2.39	0.53
3:R2:85:ARG:HD2	3:R2:86:ASP:N	2.24	0.53
3:I4:119:GLN:N	3:I4:119:GLN:OE1	2.42	0.53
13:M4:201:CYC:HB	13:M4:201:CYC:HMA2	1.73	0.53
13:O4:1001:CYC:C4B	3:T4:77:ASN:OD1	2.56	0.53
3:R4:119:GLN:N	3:R4:119:GLN:OE1	2.42	0.53
5:A5:166:ARG:HH21	5:A5:171:PRO:N	2.07	0.53
13:P5:202:CYC:CGA	13:P5:202:CYC:CMA	2.86	0.53
3:T5:85:ARG:NH2	13:T5:201:CYC:C4D	2.72	0.53
3:T5:114:LEU:CD1	13:T5:201:CYC:HAC1	2.39	0.53
3:X5:40:ASP:OD2	3:X5:40:ASP:N	2.39	0.53
13:I6:201:CYC:HMA2	4:N6:266:LEU:CD2	2.38	0.53
2:Y6:33:GLU:N	2:Y6:33:GLU:OE1	2.42	0.53
6:A7:8:TYR:CD2	6:A7:123:GLU:HG3	2.43	0.53
6:A7:100:ASN:ND2	6:A7:108:ILE:HD11	2.20	0.53
13:E7:202:CYC:NC	13:E7:202:CYC:CMD	2.72	0.53
2:H7:43:ARG:HG2	3:I7:25:LEU:HD13	1.91	0.53
3:M7:76:THR:OG1	3:M7:77:ASN:N	2.39	0.53
7:A8:105:GLU:HA	7:A8:109:VAL:HB	1.89	0.53
7:C8:69:GLY:C	7:I9:64:ASP:OD1	2.52	0.53
8:d8:109:VAL:CG1	13:d8:1001:CYC:CAB	2.73	0.53
8:h8:88:TYR:HE2	8:h8:91:ARG:HH21	1.56	0.53
8:t9:110:LEU:HD11	8:t9:157:ILE:HA	1.89	0.53
5:AA:64:PHE:CE2	2:JA:18:ARG:HD2	2.38	0.53
13:MA:1002:CYC:HMA3	13:MA:1002:CYC:NB	2.23	0.53
3:TA:85:ARG:HH21	13:TA:201:CYC:C4D	2.22	0.53
3:VA:123:THR:HB	13:VA:201:CYC:O1A	2.08	0.53
13:XA:202:CYC:CGA	13:XA:202:CYC:CMA	2.86	0.53
1:A1:95:LEU:HG	1:A1:176:ARG:HE	1.73	0.53
1:A1:207:ILE:CG2	7:c8:66:VAL:CG2	2.78	0.53
3:E1:36:ASN:ND2	13:E1:202:CYC:C2A	2.72	0.53
3:G1:83:CYS:HA	13:G1:202:CYC:HAC2	1.86	0.53
2:L1:9:ALA:HB1	2:L1:24:GLU:HB3	1.91	0.53
13:M1:201:CYC:CMA	13:M1:201:CYC:NB	2.72	0.53
3:P1:119:GLN:N	3:P1:119:GLN:OE1	2.42	0.53
3:R1:119:GLN:N	3:R1:119:GLN:OE1	2.42	0.53
2:S1:9:ALA:HB1	2:S1:24:GLU:HB3	1.91	0.53
3:X1:53:VAL:HG12	3:X1:84:LEU:HD11	1.90	0.53
3:I2:146:PRO:HB2	3:I2:151:LYS:HE2	1.90	0.53
2:J2:123:PHE:CD2	13:J2:1001:CYC:CAA	2.87	0.53
6:A3:57:HIS:O	6:A3:60:ILE:HG12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D4:9:ALA:HB1	2:D4:24:GLU:HB3	1.91	0.53
3:I4:123:THR:CG2	3:I4:124:PRO:HD2	2.38	0.53
2:O4:94:ARG:NH2	3:P4:14:ASP:OD2	2.42	0.53
3:P4:123:THR:HG23	13:P4:201:CYC:C1C	2.38	0.53
13:P4:202:CYC:CGA	13:P4:202:CYC:CMA	2.86	0.53
13:A5:303:CYC:C3C	3:G5:83:CYS:SG	2.97	0.53
13:E5:201:CYC:CMD	13:E5:201:CYC:NC	2.72	0.53
13:I5:202:CYC:NB	13:I5:202:CYC:CMA	2.72	0.53
4:N5:178:SER:H	4:N5:181:ALA:HB3	1.73	0.53
2:W5:31:ARG:NH1	2:W5:103:GLY:HA3	2.08	0.53
3:X5:74:ALA:HB2	13:X5:201:CYC:OC	2.08	0.53
13:K6:202:CYC:CGA	13:K6:202:CYC:CMA	2.86	0.53
3:X6:73:ASN:HD22	3:X6:123:THR:CA	2.22	0.53
6:A7:84:ARG:HH21	6:A7:144:LEU:HD12	1.73	0.53
2:D7:31:ARG:NH2	2:D7:35:ALA:CA	2.69	0.53
8:P8:77:ARG:CZ	13:P8:1001:CYC:O1D	2.56	0.53
7:l8:114:GLU:OE2	10:09:1060:LYS:CE	2.57	0.53
10:09:517:LYS:HE3	7:G9:13:ALA:HB3	1.89	0.53
7:C9:35:GLN:OE1	7:C9:38:ARG:NH2	2.41	0.53
7:f9:35:GLN:OE1	7:f9:38:ARG:NH2	2.41	0.53
7:o9:115:MET:CE	13:o9:1001:CYC:HHB	2.37	0.53
5:AA:166:ARG:HH22	5:AA:171:PRO:HD3	1.73	0.53
2:FA:43:ARG:O	2:FA:47:SER:OG	2.27	0.53
13:MA:1002:CYC:HHA	13:MA:1002:CYC:CBA	2.26	0.53
3:RA:154:CYS:HB2	13:RA:201:CYC:H2C	1.90	0.53
13:ZA:202:CYC:CGA	13:ZA:202:CYC:CMA	2.86	0.53
13:E1:202:CYC:CGA	13:E1:202:CYC:CMA	2.86	0.53
13:E1:202:CYC:NB	13:E1:202:CYC:CMA	2.72	0.53
3:G1:154:CYS:SG	13:G1:201:CYC:CAC	2.97	0.53
2:H1:134:LEU:HA	2:H1:137:ILE:HD12	1.91	0.53
13:K1:202:CYC:NC	13:K1:202:CYC:CMD	2.72	0.53
13:P1:202:CYC:CGA	13:P1:202:CYC:CMA	2.86	0.53
2:Q1:134:LEU:HA	2:Q1:137:ILE:HD12	1.91	0.53
13:Q1:202:CYC:NA	3:R1:40:ASP:OD2	2.41	0.53
2:S1:134:LEU:HA	2:S1:137:ILE:HD12	1.91	0.53
2:W1:20:LEU:HD13	3:X1:99:LEU:HD13	1.91	0.53
2:W1:34:ARG:HH12	2:W1:150:GLU:HB2	1.66	0.53
2:W1:134:LEU:HA	2:W1:137:ILE:HD12	1.91	0.53
2:B2:119:ILE:HD12	13:B2:1001:CYC:CMA	2.28	0.53
2:F2:61:TYR:HH	2:F2:85:CYS:HG	1.57	0.53
2:O2:26:GLN:NE2	2:W2:103:GLY:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S2:32:TYR:CE1	3:T2:35:GLY:C	2.88	0.53
2:U2:138:LYS:HB3	2:U2:155:ILE:HG21	1.91	0.53
3:Z2:37:LYS:CB	3:Z2:157:LEU:CD1	2.87	0.53
6:A3:125:ILE:HG23	3:C3:117:THR:HG22	1.90	0.53
2:B3:68:THR:O	2:B3:77:ALA:CB	2.57	0.53
2:D3:13:ALA:HB2	2:D3:24:GLU:HG2	1.90	0.53
3:M3:89:ILE:HG21	13:N3:301:CYC:HBB3	1.91	0.53
3:E4:119:GLN:N	3:E4:119:GLN:OE1	2.42	0.53
3:I4:1:MET:N	3:I4:108:ASP:OD2	2.36	0.53
4:N4:70:ARG:HH22	4:N4:140:GLN:HE21	1.57	0.53
2:O4:134:LEU:HA	2:O4:137:ILE:HD12	1.91	0.53
2:S4:134:LEU:HA	2:S4:137:ILE:HD12	1.91	0.53
2:H5:43:ARG:O	2:H5:47:SER:OG	2.27	0.53
13:M5:1002:CYC:HB	13:M5:1002:CYC:HMA2	1.73	0.53
5:A6:243:TYR:CB	7:C8:82:LEU:HB2	2.39	0.53
13:E6:202:CYC:NC	13:E6:202:CYC:CMD	2.72	0.53
2:L6:34:ARG:O	2:L6:37:ALA:N	2.40	0.53
13:N6:301:CYC:HB	13:N6:301:CYC:HMA2	1.73	0.53
2:Q6:138:LYS:HB3	2:Q6:155:ILE:HG21	1.91	0.53
3:T6:154:CYS:O	3:T6:158:ILE:HG13	2.08	0.53
13:W6:201:CYC:NB	13:W6:201:CYC:CMA	2.72	0.53
3:I7:76:THR:OG1	3:I7:77:ASN:N	2.39	0.53
3:K7:83:CYS:CA	13:K7:201:CYC:HMB3	2.37	0.53
13:N7:301:CYC:HB	13:N7:301:CYC:HMA2	1.73	0.53
13:N7:301:CYC:HC	13:N7:301:CYC:HMD2	1.74	0.53
8:D8:141:LEU:HA	7:E9:49:ARG:HH22	1.74	0.53
7:E8:19:SER:HB3	7:E8:22:GLU:HG3	1.90	0.53
7:J8:19:SER:HB3	7:J8:22:GLU:HG3	1.90	0.53
9:b8:21:ARG:HH21	10:19:963:THR:HB	1.61	0.53
7:t8:7:SER:OG	7:t8:25:ARG:NH2	2.39	0.53
8:u8:15:VAL:HG11	10:19:942:GLY:H	1.71	0.53
10:19:1031:TYR:HE1	10:19:1115:GLN:HG3	1.74	0.53
13:AA:303:CYC:C3C	3:GA:83:CYS:SG	2.97	0.53
13:AA:304:CYC:C4B	3:KA:83:CYS:SG	2.97	0.53
3:KA:154:CYS:HB2	13:KA:201:CYC:C3B	2.39	0.53
3:TA:114:LEU:CD1	13:TA:201:CYC:HAC1	2.39	0.53
13:VA:202:CYC:NB	13:VA:202:CYC:CMA	2.72	0.53
1:A1:15:GLN:HE22	1:A1:116:ARG:HD3	1.73	0.52
1:A1:67:ASN:HD21	3:K1:92:ARG:HH12	0.60	0.52
1:A1:129:ILE:CD1	3:C1:85:ARG:HH22	2.22	0.52
2:B1:134:LEU:HA	2:B1:137:ILE:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:K1:202:CYC:CMA	13:K1:202:CYC:CGA	2.86	0.52
2:W1:150:GLU:OE1	2:W1:154:TYR:HE2	1.92	0.52
2:B2:68:THR:O	2:B2:77:ALA:CB	2.58	0.52
3:E2:85:ARG:NH2	13:E2:201:CYC:HBA2	2.24	0.52
13:I2:202:CYC:CMD	13:I2:202:CYC:NC	2.73	0.52
3:M2:151:LYS:HA	13:M2:201:CYC:OB	2.09	0.52
2:Q2:138:LYS:HB3	2:Q2:155:ILE:HG21	1.91	0.52
3:R2:76:THR:OG1	3:R2:77:ASN:N	2.39	0.52
13:U2:201:CYC:NB	13:U2:201:CYC:CMA	2.73	0.52
2:D3:138:LYS:HB3	2:D3:155:ILE:HG21	1.91	0.52
2:L3:100:LEU:HD21	2:L3:150:GLU:OE2	2.07	0.52
13:M3:201:CYC:CGA	13:M3:201:CYC:CMA	2.86	0.52
13:N3:301:CYC:HB	13:N3:301:CYC:HMA2	1.73	0.52
1:A4:198:PHE:CE2	7:V8:83:ARG:HA	2.44	0.52
2:F4:9:ALA:HB1	2:F4:24:GLU:HB3	1.91	0.52
3:K4:83:CYS:O	3:K4:87:MET:HG2	2.09	0.52
3:K4:123:THR:CG2	3:K4:124:PRO:HD2	2.39	0.52
13:M4:201:CYC:HC	13:M4:201:CYC:HMD2	1.74	0.52
13:P4:202:CYC:NC	13:P4:202:CYC:CMD	2.73	0.52
2:S4:9:ALA:HB1	2:S4:24:GLU:HB3	1.91	0.52
3:X4:53:VAL:HG12	3:X4:84:LEU:HD11	1.90	0.52
13:X4:202:CYC:NC	13:X4:202:CYC:CMD	2.72	0.52
13:C5:201:CYC:NC	13:C5:201:CYC:CMD	2.73	0.52
13:E5:201:CYC:CGA	13:E5:201:CYC:CMA	2.86	0.52
13:K5:201:CYC:NC	13:K5:201:CYC:CMD	2.72	0.52
13:M5:1003:CYC:CGA	13:M5:1003:CYC:CMA	2.86	0.52
2:Q5:43:ARG:O	2:Q5:47:SER:OG	2.27	0.52
2:W5:43:ARG:O	2:W5:47:SER:OG	2.27	0.52
5:A6:228:ASN:CB	7:I9:59:PHE:HB3	2.34	0.52
3:C6:152:GLY:CA	13:C6:202:CYC:HMD1	2.17	0.52
13:C6:202:CYC:NB	13:C6:202:CYC:CMA	2.72	0.52
2:S6:35:ALA:O	2:S6:38:SER:N	2.40	0.52
13:W6:201:CYC:CMD	13:W6:201:CYC:NC	2.72	0.52
2:Y6:31:ARG:HD3	2:Y6:31:ARG:C	2.33	0.52
3:C7:154:CYS:HB3	13:C7:201:CYC:HBC1	1.91	0.52
3:E7:76:THR:OG1	3:E7:77:ASN:N	2.39	0.52
2:H7:138:LYS:HB3	2:H7:155:ILE:HG21	1.91	0.52
7:A8:64:ASP:CG	7:K9:70:GLY:N	2.67	0.52
7:H8:20:PRO:HB3	7:X9:151:SER:HG	1.64	0.52
8:K8:11:ASN:CG	10:19:537:SER:H	2.16	0.52
7:Q8:7:SER:OG	7:Q8:25:ARG:NH2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K9:115:MET:CE	13:K9:1001:CYC:HHB	2.37	0.52
7:o9:79:ALA:HB3	5:AA:198:LEU:HB3	1.85	0.52
13:EA:201:CYC:CMD	13:EA:201:CYC:NC	2.72	0.52
13:GA:1002:CYC:NB	13:GA:1002:CYC:CMA	2.72	0.52
3:PA:83:CYS:CA	13:PA:201:CYC:HAC2	2.39	0.52
2:QA:43:ARG:O	2:QA:47:SER:OG	2.27	0.52
13:RA:201:CYC:CGA	13:RA:201:CYC:CMA	2.86	0.52
1:A1:46:ILE:CD1	1:A1:72:LEU:CD1	2.75	0.52
13:E1:202:CYC:CMD	13:E1:202:CYC:NC	2.72	0.52
13:G1:201:CYC:NB	13:G1:201:CYC:CMA	2.73	0.52
2:J1:91:HIS:HB3	13:J1:1001:CYC:HAB1	1.91	0.52
13:K1:201:CYC:CGA	13:K1:201:CYC:CMA	2.86	0.52
2:L1:134:LEU:HA	2:L1:137:ILE:HD12	1.91	0.52
13:M1:202:CYC:NC	13:M1:202:CYC:CMD	2.73	0.52
4:N1:21:VAL:CG2	4:N1:148:VAL:CG1	2.87	0.52
2:Q1:74:GLN:HA	13:Q1:201:CYC:HBD2	1.91	0.52
13:V1:201:CYC:CGA	13:V1:201:CYC:CMA	2.86	0.52
5:A2:243:TYR:HB3	7:J8:82:LEU:HD12	1.90	0.52
13:E2:202:CYC:NC	13:E2:202:CYC:CMD	2.72	0.52
2:F2:3:LYS:HD3	2:L2:23:THR:HG21	1.91	0.52
3:G2:40:ASP:CG	3:G2:149:ILE:HD12	2.30	0.52
13:V2:201:CYC:NC	13:V2:201:CYC:CMD	2.73	0.52
13:W2:201:CYC:CMD	13:W2:201:CYC:NC	2.72	0.52
13:W2:203:CYC:NC	13:W2:203:CYC:CMD	2.73	0.52
13:C3:201:CYC:CMD	13:C3:201:CYC:NC	2.73	0.52
13:G3:202:CYC:HAB1	2:L3:34:ARG:NH1	2.25	0.52
2:J3:138:LYS:HB3	2:J3:155:ILE:HG21	1.91	0.52
13:N3:301:CYC:CMA	13:N3:301:CYC:NB	2.72	0.52
13:K4:201:CYC:NC	13:K4:201:CYC:CMD	2.73	0.52
13:M4:201:CYC:CMD	13:M4:201:CYC:NC	2.73	0.52
13:X4:202:CYC:NB	13:X4:202:CYC:CMA	2.73	0.52
3:G5:150:THR:OG1	13:G5:201:CYC:HAD1	2.10	0.52
13:R5:201:CYC:CMD	13:R5:201:CYC:NC	2.73	0.52
13:X5:202:CYC:CGA	13:X5:202:CYC:CMA	2.86	0.52
3:Z5:154:CYS:HB3	13:Z5:202:CYC:HAB1	1.90	0.52
3:G6:34:GLU:CD	3:G6:157:LEU:HD22	2.30	0.52
13:G6:201:CYC:CMD	13:G6:201:CYC:NC	2.73	0.52
13:G6:201:CYC:HAB1	2:L6:34:ARG:NH1	2.25	0.52
13:I6:202:CYC:CMD	13:I6:202:CYC:NC	2.73	0.52
2:O6:138:LYS:HB3	2:O6:155:ILE:HG21	1.91	0.52
3:P6:87:MET:HE2	13:P6:201:CYC:HBC1	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q6:31:ARG:NH1	2:Q6:103:GLY:CA	2.72	0.52
13:V6:201:CYC:CGA	13:V6:201:CYC:CMA	2.85	0.52
13:Z6:201:CYC:NB	13:Z6:201:CYC:CMA	2.73	0.52
6:A7:125:ILE:HG23	3:C7:117:THR:HG22	1.90	0.52
13:C7:201:CYC:CMD	13:C7:201:CYC:NC	2.73	0.52
13:M7:201:CYC:CMD	13:M7:201:CYC:NC	2.73	0.52
8:D8:141:LEU:CA	7:E9:49:ARG:HH22	2.22	0.52
7:S8:90:ARG:NH1	8:T8:17:GLY:HA2	2.25	0.52
10:09:1124:THR:OG1	10:09:1127:GLY:O	2.27	0.52
8:t9:63:TYR:HA	5:AA:205:LYS:HZ1	1.64	0.52
13:IA:202:CYC:NC	13:IA:202:CYC:CMD	2.73	0.52
13:KA:201:CYC:NC	13:KA:201:CYC:CMD	2.73	0.52
13:MA:1002:CYC:HBA2	13:MA:1002:CYC:CHA	2.24	0.52
13:MA:1002:CYC:HC	13:MA:1002:CYC:HMD2	1.74	0.52
2:OA:6:ILE:CD1	2:OA:31:ARG:HD3	2.40	0.52
3:TA:36:ASN:ND2	13:TA:202:CYC:HAA2	2.21	0.52
3:VA:87:MET:CE	13:VA:201:CYC:HMB3	2.40	0.52
3:ZA:93:TYR:HE2	13:ZA:201:CYC:HBB1	1.74	0.52
1:A1:195:ILE:HG12	7:c8:83:ARG:HH11	1.75	0.52
13:C1:302:CYC:NB	13:C1:302:CYC:CMA	2.72	0.52
2:D1:9:ALA:HB1	2:D1:24:GLU:HB3	1.91	0.52
2:H1:143:LEU:HG	2:H1:148:ALA:HB2	1.91	0.52
2:L1:119:ILE:HD11	13:L1:201:CYC:HMA1	1.91	0.52
13:X1:202:CYC:NC	13:X1:202:CYC:CMD	2.72	0.52
5:A2:234:GLN:NE2	7:J8:73:TYR:HD1	2.04	0.52
5:A2:238:ALA:HB3	7:J8:56:ASP:CG	2.33	0.52
13:G2:201:CYC:CMD	13:G2:201:CYC:NC	2.73	0.52
13:G2:201:CYC:HAB1	2:L2:34:ARG:NH1	2.25	0.52
13:M2:201:CYC:NB	13:M2:201:CYC:CMA	2.72	0.52
13:U2:201:CYC:CMD	13:U2:201:CYC:NC	2.73	0.52
3:X2:60:LEU:HD11	3:X2:87:MET:HE1	1.90	0.52
6:A3:102:ASN:ND2	3:C3:109:ARG:HB3	2.19	0.52
3:E3:85:ARG:NH2	13:E3:201:CYC:HBA2	2.25	0.52
2:H3:43:ARG:HG2	3:I3:25:LEU:HD13	1.91	0.52
1:A4:15:GLN:HE22	1:A4:116:ARG:HD3	1.73	0.52
1:A4:15:GLN:OE1	1:A4:162:ARG:NE	2.40	0.52
13:C4:302:CYC:NB	13:C4:302:CYC:CMA	2.72	0.52
3:E4:36:ASN:ND2	13:E4:202:CYC:C2A	2.72	0.52
3:G4:119:GLN:N	3:G4:119:GLN:OE1	2.42	0.52
13:G4:201:CYC:CMA	13:G4:201:CYC:CBA	2.88	0.52
13:K4:201:CYC:NB	13:K4:201:CYC:CMA	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:K4:202:CYC:CMA	13:K4:202:CYC:NB	2.73	0.52
2:Q4:9:ALA:HB1	2:Q4:24:GLU:HB3	1.91	0.52
13:A5:304:CYC:HAC1	3:K5:114:LEU:CD1	2.35	0.52
2:Q5:33:GLU:HA	2:Q5:33:GLU:OE2	2.10	0.52
2:S5:32:TYR:CE1	3:T5:35:GLY:CA	2.76	0.52
2:Y5:31:ARG:HH21	2:Y5:31:ARG:HG3	1.74	0.52
3:E6:85:ARG:NH2	13:E6:201:CYC:HBA2	2.24	0.52
2:H6:32:TYR:N	2:H6:32:TYR:CD1	2.75	0.52
13:K6:201:CYC:NB	13:K6:201:CYC:CMA	2.72	0.52
4:N6:104:LEU:C	4:N6:152:ARG:HH21	2.15	0.52
3:P6:80:MET:HE3	3:P6:84:LEU:HG	1.90	0.52
13:T6:201:CYC:CGA	13:T6:201:CYC:CMA	2.86	0.52
13:U6:201:CYC:NC	13:U6:201:CYC:CMD	2.73	0.52
13:W6:201:CYC:CGA	13:W6:201:CYC:CMA	2.86	0.52
6:A7:98:ASP:OD1	6:A7:98:ASP:N	2.42	0.52
2:D7:18:ARG:NH2	2:D7:24:GLU:CD	2.66	0.52
9:G8:36:ASN:CG	10:09:586:ARG:CZ	2.83	0.52
7:L8:25:ARG:HD3	7:Z9:25:ARG:HH11	1.55	0.52
8:L9:140:SER:HB2	7:f9:45:ASP:CG	2.34	0.52
7:k9:35:GLN:OE1	7:k9:38:ARG:NH2	2.41	0.52
5:AA:27:GLU:OE2	3:GA:2:THR:OG1	2.25	0.52
2:DA:98:TYR:OH	3:EA:18:GLU:O	2.27	0.52
3:GA:154:CYS:HB3	13:GA:1002:CYC:HAC2	1.90	0.52
13:KA:201:CYC:CGA	13:KA:201:CYC:CMA	2.86	0.52
13:TA:202:CYC:NB	13:TA:202:CYC:CMA	2.72	0.52
2:YA:20:LEU:HG	3:ZA:96:TYR:HE1	1.73	0.52
13:C1:302:CYC:CMD	13:C1:302:CYC:NC	2.73	0.52
2:F1:9:ALA:HB1	2:F1:24:GLU:HB3	1.91	0.52
2:F1:85:CYS:CA	13:F1:1001:CYC:HAC2	2.33	0.52
13:G1:201:CYC:CMA	13:G1:201:CYC:CBA	2.88	0.52
13:K1:202:CYC:CMA	13:K1:202:CYC:CBA	2.88	0.52
13:M1:202:CYC:NB	13:M1:202:CYC:CMA	2.72	0.52
13:P1:201:CYC:CMA	13:P1:201:CYC:NB	2.73	0.52
13:T1:201:CYC:CMD	13:T1:201:CYC:NC	2.73	0.52
13:X1:202:CYC:NB	13:X1:202:CYC:CMA	2.73	0.52
3:C2:154:CYS:HB3	13:C2:202:CYC:HBC1	1.91	0.52
13:K2:201:CYC:CGA	13:K2:201:CYC:CMA	2.86	0.52
13:E3:202:CYC:NB	13:E3:202:CYC:CMA	2.73	0.52
13:M3:201:CYC:CMD	13:M3:201:CYC:NC	2.73	0.52
1:A4:129:ILE:CD1	3:C4:85:ARG:HH22	2.22	0.52
2:D4:150:GLU:CD	2:H4:22:ASN:HD21	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G4:70:PRO:HG3	8:W8:18:LYS:HZ3	1.62	0.52
13:G4:201:CYC:NC	13:G4:201:CYC:CMD	2.73	0.52
13:I4:202:CYC:NC	13:I4:202:CYC:CMD	2.73	0.52
4:N4:201:THR:HA	3:T4:116:GLU:OE2	2.09	0.52
2:O4:9:ALA:HB1	2:O4:24:GLU:HB3	1.91	0.52
13:P4:202:CYC:NB	13:P4:202:CYC:CMA	2.72	0.52
2:Q4:74:GLN:HA	13:Q4:201:CYC:HBD2	1.91	0.52
13:Z4:201:CYC:NC	13:Z4:201:CYC:CMD	2.73	0.52
5:A5:165:LYS:HE2	13:A5:302:CYC:O1A	2.09	0.52
13:G5:201:CYC:CGA	13:G5:201:CYC:CMA	2.86	0.52
3:M5:152:GLY:HA3	13:M5:1003:CYC:CMA	2.40	0.52
4:N5:154:PHE:O	13:T5:201:CYC:O1D	2.27	0.52
2:U5:43:ARG:O	2:U5:47:SER:OG	2.28	0.52
2:Y5:20:LEU:HG	3:Z5:96:TYR:HE1	1.73	0.52
5:A6:175:VAL:HG13	5:A6:176:THR:HG23	1.91	0.52
13:E6:202:CYC:NB	13:E6:202:CYC:CMA	2.73	0.52
2:L6:138:LYS:HB3	2:L6:155:ILE:HG21	1.92	0.52
3:M6:151:LYS:HA	13:M6:201:CYC:OB	2.09	0.52
13:M6:201:CYC:CMA	13:M6:201:CYC:CBA	2.88	0.52
2:O6:34:ARG:HH22	13:X6:202:CYC:CBC	2.22	0.52
13:T6:201:CYC:CMD	13:T6:201:CYC:NC	2.73	0.52
13:X6:202:CYC:CMD	13:X6:202:CYC:NC	2.73	0.52
13:Z6:201:CYC:NC	13:Z6:201:CYC:CMD	2.73	0.52
2:B7:125:LEU:HD11	13:B7:1001:CYC:CHA	2.38	0.52
7:g8:7:SER:OG	7:g8:25:ARG:NH2	2.39	0.52
8:m8:116:THR:CB	10:09:1103:LEU:CD2	2.88	0.52
7:K9:35:GLN:OE1	7:K9:38:ARG:NH2	2.41	0.52
11:Q9:36:ALA:HB1	11:Q9:147:ILE:HD11	1.89	0.52
7:R9:35:GLN:OE1	7:R9:38:ARG:NH2	2.41	0.52
8:e9:110:LEU:HD11	8:e9:157:ILE:HA	1.89	0.52
11:g9:105:LEU:HD22	11:g9:160:ILE:HD11	1.90	0.52
7:k9:86:ASP:O	8:l9:19:TYR:OH	2.28	0.52
13:CA:201:CYC:NB	13:CA:201:CYC:CMA	2.72	0.52
13:KA:201:CYC:NB	13:KA:201:CYC:CMA	2.73	0.52
2:OA:43:ARG:O	2:OA:47:SER:OG	2.27	0.52
2:SA:43:ARG:O	2:SA:47:SER:OG	2.27	0.52
3:TA:152:GLY:HA3	13:TA:202:CYC:CMD	2.28	0.52
1:A1:177:TYR:OH	3:G1:121:LEU:O	2.24	0.52
3:C1:129:ALA:O	3:C1:133:GLN:HB2	2.10	0.52
3:K1:83:CYS:CA	13:K1:201:CYC:HMB3	2.39	0.52
3:K1:119:GLN:N	3:K1:119:GLN:OE1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:V1:201:CYC:CMD	13:V1:201:CYC:NC	2.73	0.52
2:W1:9:ALA:HB1	2:W1:24:GLU:HB3	1.91	0.52
2:B2:76:ALA:HA	2:B2:81:GLY:HA3	1.90	0.52
13:K2:202:CYC:CMA	13:K2:202:CYC:CBA	2.88	0.52
3:P2:54:THR:O	3:P2:58:ARG:HD3	2.08	0.52
3:R2:85:ARG:HD2	3:R2:86:ASP:HB3	1.90	0.52
2:U2:74:GLN:HA	13:U2:202:CYC:HBD2	1.92	0.52
13:A3:301:CYC:HBB1	3:C3:93:TYR:CE2	2.44	0.52
3:G3:82:ALA:CB	13:G3:201:CYC:HMD1	2.23	0.52
3:K3:38:ARG:CG	3:K3:38:ARG:NH1	2.72	0.52
3:I4:128:VAL:HG22	13:I4:201:CYC:HMC3	1.78	0.52
3:M4:114:LEU:HD13	13:M4:201:CYC:HMB2	1.91	0.52
3:M4:119:GLN:N	3:M4:119:GLN:OE1	2.42	0.52
13:P4:201:CYC:CMA	13:P4:201:CYC:NB	2.73	0.52
13:P4:202:CYC:CMA	13:P4:202:CYC:CBA	2.88	0.52
3:R4:121:LEU:HD21	13:R4:1001:CYC:HAA2	1.91	0.52
3:V4:152:GLY:HA3	13:V4:201:CYC:HMA3	1.91	0.52
3:E5:149:ILE:N	3:E5:149:ILE:CD1	2.73	0.52
3:G5:149:ILE:N	3:G5:149:ILE:CD1	2.73	0.52
13:M5:1003:CYC:NB	13:M5:1003:CYC:CMA	2.72	0.52
13:M5:1003:CYC:CMD	13:M5:1003:CYC:NC	2.73	0.52
3:P5:83:CYS:CA	13:P5:201:CYC:HAC2	2.39	0.52
13:P5:202:CYC:NC	13:P5:202:CYC:CMD	2.73	0.52
3:X5:156:GLN:O	3:X5:159:SER:OG	2.27	0.52
13:C6:202:CYC:CMD	13:C6:202:CYC:NC	2.73	0.52
2:D6:31:ARG:O	2:D6:35:ALA:N	2.38	0.52
2:L6:18:ARG:NH2	2:L6:24:GLU:OE2	2.43	0.52
13:M6:201:CYC:NB	13:M6:201:CYC:CMA	2.72	0.52
4:N6:253:ARG:CG	13:N6:301:CYC:OB	2.58	0.52
13:N6:301:CYC:CMD	13:N6:301:CYC:NC	2.73	0.52
13:V6:201:CYC:NC	13:V6:201:CYC:CMD	2.73	0.52
13:X6:202:CYC:CMA	13:X6:202:CYC:CBA	2.88	0.52
6:A7:71:GLN:HB3	6:A7:77:ILE:HG13	1.92	0.52
6:A7:71:GLN:HB3	6:A7:77:ILE:CG1	2.39	0.52
2:B7:68:THR:O	2:B7:77:ALA:CB	2.57	0.52
13:I7:202:CYC:NB	13:I7:202:CYC:CMA	2.72	0.52
2:L7:138:LYS:HB3	2:L7:155:ILE:HG21	1.91	0.52
13:M7:201:CYC:CMA	13:M7:201:CYC:CBA	2.88	0.52
13:B8:1001:CYC:HMA2	10:09:576:ASN:HD21	1.73	0.52
8:T8:63:TYR:HB3	5:AA:248:PRO:O	2.09	0.52
7:V8:7:SER:OG	7:V8:25:ARG:NH2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:09:395:TYR:HE1	9:29:21:ARG:HH22	1.52	0.52
10:09:1096:SER:O	13:09:1201:CYC:NB	2.43	0.52
7:A9:35:GLN:NE2	7:A9:145:ASP:OD1	2.43	0.52
11:Q9:90:LEU:HD13	11:Q9:134:LEU:HD21	1.91	0.52
7:T9:35:GLN:NE2	7:T9:145:ASP:OD1	2.43	0.52
7:d9:35:GLN:NE2	7:d9:145:ASP:OD1	2.43	0.52
13:AA:301:CYC:CBC	3:CA:87:MET:HE1	2.35	0.52
13:IA:202:CYC:CMA	13:IA:202:CYC:NB	2.72	0.52
2:LA:43:ARG:O	2:LA:47:SER:OG	2.27	0.52
2:LA:61:TYR:OH	2:LA:85:CYS:SG	2.68	0.52
13:MA:1002:CYC:CMA	13:MA:1002:CYC:NB	2.72	0.52
2:QA:33:GLU:HA	2:QA:33:GLU:OE2	2.10	0.52
2:B1:157:TYR:OH	2:J1:18:ARG:NH1	2.42	0.52
3:G1:124:PRO:HG2	3:G1:127:SER:HB2	1.90	0.52
13:K1:201:CYC:NC	13:K1:201:CYC:CMD	2.73	0.52
13:Q1:202:CYC:CGA	13:Q1:202:CYC:CMA	2.86	0.52
13:Q1:202:CYC:CMA	13:Q1:202:CYC:CBA	2.88	0.52
5:A2:194:TRP:NE1	7:d9:66:VAL:HG11	2.24	0.52
13:C2:202:CYC:CMD	13:C2:202:CYC:NC	2.73	0.52
2:D2:31:ARG:O	2:D2:35:ALA:CB	2.58	0.52
3:I2:41:VAL:CG2	13:I2:202:CYC:HMB1	2.34	0.52
3:I2:85:ARG:HH22	4:N2:267:SER:HB3	1.74	0.52
13:I2:202:CYC:CMA	13:I2:202:CYC:CBA	2.88	0.52
3:K2:117:THR:HB	13:K2:201:CYC:O1D	2.10	0.52
13:K2:201:CYC:CMA	13:K2:201:CYC:CBA	2.88	0.52
13:N2:301:CYC:HB	13:N2:301:CYC:HMA2	1.73	0.52
2:O2:34:ARG:HD3	2:W2:26:GLN:HG2	1.91	0.52
2:Q2:31:ARG:HH11	2:Q2:103:GLY:HA3	1.74	0.52
13:V2:201:CYC:CMA	13:V2:201:CYC:CBA	2.88	0.52
3:C3:154:CYS:HB3	13:C3:201:CYC:HBC1	1.91	0.52
13:C3:201:CYC:NB	13:C3:201:CYC:CMA	2.72	0.52
3:E3:76:THR:OG1	3:E3:77:ASN:N	2.39	0.52
2:F3:3:LYS:HD3	2:L3:23:THR:HG21	1.92	0.52
13:G3:202:CYC:CMA	13:G3:202:CYC:CBA	2.88	0.52
2:H3:88:ASP:OD1	13:H3:1001:CYC:HHB	2.10	0.52
13:I3:202:CYC:CMD	13:I3:202:CYC:NC	2.73	0.52
1:A4:195:ILE:CG2	7:V8:80:THR:N	2.69	0.52
2:D4:134:LEU:HA	2:D4:137:ILE:HD12	1.91	0.52
13:I4:202:CYC:NB	13:I4:202:CYC:CMA	2.72	0.52
2:J4:91:HIS:HB3	13:J4:1001:CYC:HAB1	1.92	0.52
2:J4:134:LEU:HA	2:J4:137:ILE:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:K4:202:CYC:CMA	13:K4:202:CYC:CBA	2.88	0.52
3:M4:2:THR:HA	3:M4:105:VAL:HG23	1.92	0.52
13:M4:202:CYC:NC	13:M4:202:CYC:CMD	2.73	0.52
4:N4:112:SER:CA	4:N4:115:VAL:HG12	2.38	0.52
3:P4:79:ARG:O	3:P4:82:ALA:HB3	2.10	0.52
3:V4:2:THR:HA	3:V4:105:VAL:HG23	1.92	0.52
2:W4:9:ALA:HB1	2:W4:24:GLU:HB3	1.91	0.52
13:A5:304:CYC:C4B	3:K5:83:CYS:SG	2.97	0.52
2:B5:34:ARG:NH1	2:B5:150:GLU:OE2	2.27	0.52
13:E5:201:CYC:CMA	13:E5:201:CYC:CBA	2.88	0.52
13:M5:1002:CYC:CMA	13:M5:1002:CYC:NB	2.72	0.52
13:M5:1003:CYC:CMA	13:M5:1003:CYC:CBA	2.88	0.52
2:O5:43:ARG:O	2:O5:47:SER:OG	2.27	0.52
2:S5:61:TYR:OH	2:S5:85:CYS:SG	2.68	0.52
13:T5:202:CYC:NC	13:T5:202:CYC:CMD	2.73	0.52
2:Y5:43:ARG:O	2:Y5:47:SER:OG	2.27	0.52
5:A6:190:VAL:O	7:N9:75:GLN:NE2	2.35	0.52
13:G6:201:CYC:CMA	13:G6:201:CYC:CBA	2.88	0.52
2:J6:18:ARG:NH2	2:J6:24:GLU:OE2	2.43	0.52
2:J6:123:PHE:CD2	13:J6:1001:CYC:CAA	2.87	0.52
13:K6:201:CYC:CMA	13:K6:201:CYC:CBA	2.88	0.52
13:K6:202:CYC:CMA	13:K6:202:CYC:CBA	2.88	0.52
13:K6:202:CYC:NC	13:K6:202:CYC:CMD	2.72	0.52
13:N6:302:CYC:HMC1	3:T6:89:ILE:HG21	1.92	0.52
2:Q6:34:ARG:HD3	13:V6:201:CYC:H2C	1.91	0.52
13:T6:201:CYC:CMA	13:T6:201:CYC:CBA	2.88	0.52
2:U6:138:LYS:HB3	2:U6:155:ILE:HG21	1.91	0.52
13:U6:201:CYC:NB	13:U6:201:CYC:CMA	2.73	0.52
13:V6:201:CYC:NB	13:V6:201:CYC:CMA	2.72	0.52
3:X6:31:VAL:O	3:X6:35:GLY:N	2.42	0.52
3:X6:76:THR:OG1	3:X6:77:ASN:N	2.39	0.52
3:Z6:44:ARG:CZ	3:Z6:145:ASP:HB2	2.38	0.52
2:D7:13:ALA:HB2	2:D7:24:GLU:HG2	1.90	0.52
2:F7:138:LYS:HB3	2:F7:155:ILE:HG21	1.91	0.52
3:I7:85:ARG:HH22	4:N7:267:SER:HB3	1.74	0.52
13:I7:202:CYC:CMD	13:I7:202:CYC:NC	2.73	0.52
2:J7:138:LYS:HB3	2:J7:155:ILE:HG21	1.91	0.52
3:K7:117:THR:HB	13:K7:201:CYC:O1D	2.10	0.52
13:K7:202:CYC:NC	13:K7:202:CYC:CMD	2.72	0.52
13:N7:301:CYC:CMA	13:N7:301:CYC:NB	2.72	0.52
7:A8:80:THR:HG21	8:F8:63:TYR:HE1	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H8:19:SER:HB3	7:H8:22:GLU:HG3	1.90	0.52
7:J8:12:ASP:OD2	8:K8:92:TYR:HE1	1.92	0.52
7:c8:125:ALA:CB	13:c8:1001:CYC:HMC2	2.33	0.52
10:09:920:ALA:O	10:09:935:ARG:NH2	2.42	0.52
7:K9:35:GLN:NE2	7:K9:145:ASP:OD1	2.43	0.52
7:d9:111:GLY:H	8:h9:76:THR:HG23	1.75	0.52
7:u9:35:GLN:NE2	7:u9:145:ASP:OD1	2.43	0.52
7:w9:35:GLN:NE2	7:w9:145:ASP:OD1	2.43	0.52
2:HA:43:ARG:O	2:HA:47:SER:OG	2.27	0.52
13:IA:202:CYC:HBD1	13:IA:202:CYC:CHA	2.28	0.52
13:MA:1003:CYC:CMA	13:MA:1003:CYC:CBA	2.88	0.52
3:RA:149:ILE:N	3:RA:149:ILE:CD1	2.73	0.52
3:TA:85:ARG:NH2	13:TA:201:CYC:C4D	2.72	0.52
2:UA:43:ARG:O	2:UA:47:SER:OG	2.28	0.52
13:XA:202:CYC:NC	13:XA:202:CYC:CMD	2.72	0.52
3:ZA:86:ASP:OD1	13:ZA:201:CYC:HMB2	2.09	0.52
1:A1:198:PHE:CE1	7:c8:82:LEU:C	2.87	0.52
1:A1:212:PHE:HB3	7:l8:67:SER:N	2.23	0.52
3:C1:18:GLU:CD	7:c8:47:ARG:HH22	2.08	0.52
2:F1:134:LEU:HA	2:F1:137:ILE:HD12	1.91	0.52
2:H1:130:TYR:HB2	2:H1:162:LEU:HD21	1.92	0.52
13:X1:202:CYC:CMA	13:X1:202:CYC:CBA	2.88	0.52
5:A2:103:ASN:OD1	3:C2:112:ASN:ND2	2.41	0.52
5:A2:165:LYS:CE	13:E2:201:CYC:O1A	2.58	0.52
5:A2:175:VAL:HG13	5:A2:176:THR:HG23	1.91	0.52
2:B2:138:LYS:HB3	2:B2:155:ILE:HG21	1.91	0.52
3:C2:152:GLY:CA	13:C2:202:CYC:HMD2	2.28	0.52
13:C2:202:CYC:CMA	13:C2:202:CYC:CBA	2.88	0.52
2:F2:31:ARG:O	2:F2:35:ALA:N	2.35	0.52
2:H2:88:ASP:OD1	13:H2:1001:CYC:HHB	2.10	0.52
2:L2:18:ARG:NH2	2:L2:24:GLU:OE2	2.43	0.52
13:M2:201:CYC:CMD	13:M2:201:CYC:NC	2.73	0.52
4:N2:154:PHE:O	4:N2:165:PHE:CE2	2.59	0.52
2:O2:34:ARG:NH2	13:W2:203:CYC:CBC	2.73	0.52
3:P2:80:MET:HE3	3:P2:84:LEU:HG	1.90	0.52
13:P2:201:CYC:CMD	13:P2:201:CYC:NC	2.73	0.52
2:B3:119:ILE:HD12	13:B3:1001:CYC:CMA	2.28	0.52
2:D3:31:ARG:O	2:D3:35:ALA:N	2.38	0.52
13:E3:202:CYC:NC	13:E3:202:CYC:CMD	2.72	0.52
13:G3:202:CYC:CMD	13:G3:202:CYC:NC	2.73	0.52
13:K3:201:CYC:NC	13:K3:201:CYC:CMD	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:134:LEU:HA	2:B4:137:ILE:HD12	1.91	0.52
2:D4:130:TYR:HB2	2:D4:162:LEU:HD21	1.92	0.52
13:E4:202:CYC:CMD	13:E4:202:CYC:NC	2.72	0.52
13:E4:202:CYC:CMA	13:E4:202:CYC:CBA	2.88	0.52
2:H4:41:ALA:HB1	2:H4:151:ALA:HB2	1.92	0.52
3:I4:2:THR:HA	3:I4:105:VAL:HG23	1.92	0.52
13:Q4:202:CYC:CMD	13:Q4:202:CYC:NC	2.73	0.52
13:T4:201:CYC:NB	13:T4:201:CYC:CMA	2.72	0.52
3:X4:119:GLN:N	3:X4:119:GLN:OE1	2.42	0.52
13:Z4:201:CYC:NB	13:Z4:201:CYC:CMA	2.73	0.52
5:A5:166:ARG:NE	5:A5:166:ARG:O	2.43	0.52
13:A5:303:CYC:HBC3	3:G5:87:MET:HE3	1.92	0.52
13:I5:202:CYC:CMA	13:I5:202:CYC:CBA	2.88	0.52
3:M5:149:ILE:N	3:M5:149:ILE:CD1	2.73	0.52
13:M5:1002:CYC:CMD	13:M5:1002:CYC:NC	2.73	0.52
3:T5:149:ILE:N	3:T5:149:ILE:CD1	2.73	0.52
13:V5:202:CYC:NC	13:V5:202:CYC:CMD	2.73	0.52
3:X5:68:ILE:HD11	13:Y5:201:CYC:O1A	2.00	0.52
3:C6:154:CYS:HB3	13:C6:202:CYC:HBC1	1.91	0.52
2:D6:13:ALA:HB2	2:D6:24:GLU:HG2	1.90	0.52
3:G6:38:ARG:HG2	3:G6:157:LEU:HD13	1.92	0.52
2:H6:43:ARG:HG2	3:I6:25:LEU:HD13	1.90	0.52
2:H6:88:ASP:OD1	13:H6:1001:CYC:HHB	2.10	0.52
2:L6:100:LEU:HD21	2:L6:150:GLU:OE2	2.07	0.52
13:M6:201:CYC:CMD	13:M6:201:CYC:NC	2.73	0.52
13:V6:201:CYC:CMA	13:V6:201:CYC:CBA	2.88	0.52
2:D7:138:LYS:HB3	2:D7:155:ILE:HG21	1.92	0.52
3:E7:41:VAL:HG22	13:E7:202:CYC:HBC3	1.92	0.52
13:G7:202:CYC:CMD	13:G7:202:CYC:NC	2.73	0.52
3:K7:89:ILE:HG21	13:K7:201:CYC:HMC3	1.91	0.52
4:N7:253:ARG:CG	13:N7:301:CYC:OB	2.58	0.52
7:H8:95:GLY:HA3	7:H8:104:ILE:HD11	1.92	0.52
7:J8:5:THR:HG22	10:19:540:PHE:CD2	2.45	0.52
9:N8:25:ASN:HD21	10:19:657:GLU:H	1.58	0.52
7:S8:25:ARG:HD3	7:w9:25:ARG:HH11	1.71	0.52
13:09:1203:CYC:CGA	8:M9:84:ARG:NH1	2.73	0.52
10:19:184:ASN:HB3	13:19:1202:CYC:HAB2	1.90	0.52
7:C9:35:GLN:NE2	7:C9:145:ASP:OD1	2.43	0.52
7:I9:126:VAL:HG22	13:I9:1001:CYC:H3C	1.92	0.52
7:Z9:35:GLN:NE2	7:Z9:145:ASP:OD1	2.43	0.52
7:k9:126:VAL:HG22	13:k9:1001:CYC:H3C	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:l9:22:THR:HA	8:l9:25:LEU:HD12	1.92	0.52
3:TA:149:ILE:N	3:TA:149:ILE:CD1	2.73	0.52
3:XA:145:ASP:OD1	3:XA:145:ASP:N	2.41	0.52
13:ZA:202:CYC:NC	13:ZA:202:CYC:CMD	2.72	0.52
2:J1:9:ALA:HB1	2:J1:24:GLU:HB3	1.91	0.52
3:K1:2:THR:HA	3:K1:105:VAL:HG23	1.92	0.52
13:K1:202:CYC:CMA	13:K1:202:CYC:NB	2.73	0.52
4:N1:70:ARG:HH22	4:N1:140:GLN:HE21	1.57	0.52
4:N1:155:GLU:C	4:N1:157:GLN:CD	2.75	0.52
3:P1:79:ARG:O	3:P1:82:ALA:HB3	2.10	0.52
13:Q1:202:CYC:NB	13:Q1:202:CYC:CMA	2.72	0.52
3:Z1:2:THR:HA	3:Z1:105:VAL:HG23	1.92	0.52
5:A2:230:GLY:HA3	7:X9:63:PRO:O	2.09	0.52
2:H2:18:ARG:NH2	2:H2:24:GLU:OE2	2.43	0.52
2:H2:138:LYS:HB3	2:H2:155:ILE:HG21	1.91	0.52
2:J2:138:LYS:HB3	2:J2:155:ILE:HG21	1.91	0.52
13:K2:201:CYC:NC	13:K2:201:CYC:CMD	2.73	0.52
13:K2:202:CYC:NC	13:K2:202:CYC:CMD	2.72	0.52
4:N2:253:ARG:CG	13:N2:301:CYC:OB	2.58	0.52
13:T2:201:CYC:NB	13:T2:201:CYC:CMA	2.72	0.52
2:W2:74:GLN:HA	13:W2:202:CYC:CBD	2.40	0.52
3:X2:38:ARG:CG	3:X2:157:LEU:HD21	2.40	0.52
2:Y2:33:GLU:N	2:Y2:33:GLU:OE1	2.42	0.52
6:A3:98:ASP:OD1	6:A3:98:ASP:N	2.42	0.52
2:B3:18:ARG:NH2	2:B3:24:GLU:OE2	2.43	0.52
2:B3:138:LYS:HB3	2:B3:155:ILE:HG21	1.91	0.52
3:I3:85:ARG:HH22	4:N3:267:SER:HB3	1.74	0.52
13:I3:201:CYC:HMA2	4:N3:266:LEU:CD2	2.38	0.52
2:J3:18:ARG:NH2	2:J3:24:GLU:OE2	2.43	0.52
13:K3:201:CYC:NB	13:K3:201:CYC:CMA	2.72	0.52
13:K3:202:CYC:CMA	13:K3:202:CYC:CBA	2.88	0.52
13:K3:202:CYC:NC	13:K3:202:CYC:CMD	2.72	0.52
13:C4:302:CYC:CMD	13:C4:302:CYC:NC	2.73	0.52
2:F4:130:TYR:HB2	2:F4:162:LEU:HD21	1.92	0.52
2:H4:134:LEU:HA	2:H4:137:ILE:HD12	1.91	0.52
3:K4:83:CYS:CA	13:K4:201:CYC:HMB3	2.39	0.52
13:Q4:202:CYC:NB	13:Q4:202:CYC:CMA	2.73	0.52
3:T4:83:CYS:SG	13:T4:202:CYC:C3B	2.97	0.52
13:A5:304:CYC:HB	13:A5:304:CYC:HMA1	1.75	0.52
13:C5:201:CYC:CMA	13:C5:201:CYC:CBA	2.88	0.52
13:G5:201:CYC:CMA	13:G5:201:CYC:CBA	2.88	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H5:71:PRO:CB	3:G7:63:GLU:OE2	2.55	0.52
3:K5:154:CYS:HB2	13:K5:201:CYC:C3B	2.39	0.52
13:K5:201:CYC:CMA	13:K5:201:CYC:CBA	2.88	0.52
4:N5:92:GLN:HA	4:N5:92:GLN:HE21	1.73	0.52
13:P5:201:CYC:CMA	13:P5:201:CYC:NB	2.73	0.52
3:R5:149:ILE:CG2	13:R5:201:CYC:C1D	2.87	0.52
13:X5:202:CYC:CMA	13:X5:202:CYC:CBA	2.88	0.52
3:Z5:93:TYR:HE2	13:Z5:201:CYC:HBB1	1.74	0.52
2:D6:26:GLN:OE1	2:H6:31:ARG:HG2	2.10	0.52
2:J6:138:LYS:HB3	2:J6:155:ILE:HG21	1.92	0.52
13:K6:202:CYC:NB	13:K6:202:CYC:CMA	2.73	0.52
2:S6:29:ARG:HH21	2:S6:29:ARG:CG	2.21	0.52
2:S6:32:TYR:CE1	3:T6:35:GLY:C	2.87	0.52
13:U6:201:CYC:CGA	13:U6:201:CYC:CMA	2.86	0.52
13:X6:202:CYC:NB	13:X6:202:CYC:CMA	2.73	0.52
13:Z6:201:CYC:CMA	13:Z6:201:CYC:CBA	2.88	0.52
6:A7:84:ARG:HH21	6:A7:144:LEU:CD1	2.23	0.52
6:A7:125:ILE:HG23	3:C7:117:THR:CG2	2.40	0.52
13:E7:202:CYC:CMA	13:E7:202:CYC:CBA	2.88	0.52
3:G7:79:ARG:O	13:G7:201:CYC:CMD	2.58	0.52
13:G7:202:CYC:NB	13:G7:202:CYC:CMA	2.73	0.52
13:K7:201:CYC:NC	13:K7:201:CYC:CMD	2.73	0.52
8:B8:109:VAL:CG1	13:B8:1001:CYC:CAB	2.73	0.52
7:H8:115:MET:HG3	8:M8:79:TYR:CD1	2.44	0.52
8:K8:15:VAL:HG21	10:19:535:GLY:O	2.10	0.52
7:L8:95:GLY:HA3	7:L8:104:ILE:HD11	1.92	0.52
9:i8:18:ARG:CZ	9:i8:22:GLU:OE1	2.58	0.52
7:j8:125:ALA:CB	13:j8:1001:CYC:HMC2	2.33	0.52
7:n8:95:GLY:HA3	7:n8:104:ILE:HD11	1.92	0.52
8:o8:88:TYR:HE2	10:09:987:SER:OG	1.93	0.52
13:s8:1001:CYC:OB	10:19:1098:PRO:O	2.28	0.52
7:A9:126:VAL:HG22	13:A9:1001:CYC:H3C	1.92	0.52
8:D9:135:LYS:NZ	8:D9:155:ASP:OD2	2.43	0.52
7:G9:126:VAL:HG22	13:G9:1001:CYC:H3C	1.92	0.52
8:H9:135:LYS:NZ	8:H9:155:ASP:OD2	2.43	0.52
7:X9:35:GLN:NE2	7:X9:145:ASP:OD1	2.43	0.52
7:k9:35:GLN:NE2	7:k9:145:ASP:OD1	2.43	0.52
8:n9:135:LYS:NZ	8:n9:155:ASP:OD2	2.43	0.52
7:w9:66:VAL:HB	5:AA:230:GLY:CA	2.40	0.52
5:AA:166:ARG:O	5:AA:166:ARG:NE	2.43	0.52
13:GA:1002:CYC:CMD	13:GA:1002:CYC:NC	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HA:114:ALA:HB3	3:MA:78:ARG:HB2	1.92	0.52
13:IA:202:CYC:CMA	13:IA:202:CYC:CBA	2.88	0.52
13:KA:201:CYC:CMA	13:KA:201:CYC:CBA	2.88	0.52
13:NA:301:CYC:HB	13:NA:301:CYC:HMA1	1.75	0.52
13:PA:201:CYC:CMA	13:PA:201:CYC:NB	2.73	0.52
13:PA:202:CYC:NC	13:PA:202:CYC:CMD	2.72	0.52
2:D1:134:LEU:HA	2:D1:137:ILE:HD12	1.91	0.52
2:H1:41:ALA:HB1	2:H1:151:ALA:HB2	1.92	0.52
2:L1:143:LEU:HG	2:L1:148:ALA:HB2	1.92	0.52
4:N1:68:THR:O	4:N1:71:GLU:N	2.43	0.52
2:O1:150:GLU:OE2	2:W1:22:ASN:ND2	2.43	0.52
13:P1:201:CYC:CMD	13:P1:201:CYC:NC	2.73	0.52
2:Q1:9:ALA:HB1	2:Q1:24:GLU:HB3	1.91	0.52
2:S1:29:ARG:HD3	13:T1:201:CYC:OB	2.10	0.52
2:S1:130:TYR:HB2	2:S1:162:LEU:HD21	1.92	0.52
2:U1:134:LEU:HA	2:U1:137:ILE:HD12	1.91	0.52
3:V1:2:THR:HA	3:V1:105:VAL:HG23	1.92	0.52
13:Z1:201:CYC:NC	13:Z1:201:CYC:CMD	2.73	0.52
2:D2:18:ARG:NH2	2:D2:24:GLU:CD	2.66	0.52
3:E2:39:LEU:HD13	13:E2:202:CYC:HBB2	1.91	0.52
13:N2:301:CYC:CMD	13:N2:301:CYC:NC	2.73	0.52
2:Q2:31:ARG:NH1	2:Q2:103:GLY:CA	2.73	0.52
2:W2:61:TYR:HH	2:W2:85:CYS:HG	1.56	0.52
13:Z2:201:CYC:NC	13:Z2:201:CYC:CMD	2.73	0.52
6:A3:84:ARG:HH21	6:A3:144:LEU:HD12	1.73	0.52
3:G3:154:CYS:HB2	13:G3:202:CYC:HBC1	1.92	0.52
2:H3:18:ARG:NH2	2:H3:24:GLU:OE2	2.43	0.52
3:K3:87:MET:CE	13:K3:201:CYC:CMB	2.88	0.52
2:L3:31:ARG:NH1	2:L3:101:VAL:O	2.43	0.52
13:M3:201:CYC:NB	13:M3:201:CYC:CMA	2.72	0.52
4:N3:253:ARG:CG	13:N3:301:CYC:OB	2.58	0.52
1:A4:209:THR:CG2	7:V8:66:VAL:C	2.81	0.52
3:C4:129:ALA:O	3:C4:133:GLN:HB2	2.10	0.52
4:N4:21:VAL:CG2	4:N4:148:VAL:CG1	2.87	0.52
3:P4:2:THR:HA	3:P4:105:VAL:HG23	1.92	0.52
13:T4:201:CYC:CMD	13:T4:201:CYC:NC	2.73	0.52
13:T4:201:CYC:CMA	13:T4:201:CYC:CBA	2.88	0.52
2:Y4:130:TYR:HB2	2:Y4:162:LEU:HD21	1.92	0.52
3:Z4:68:ILE:HG13	3:Z4:69:ALA:N	2.24	0.52
5:A5:72:SER:HA	5:A5:75:LYS:HE2	1.92	0.52
5:A5:223:ALA:HB3	7:q9:78:THR:CG2	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A5:304:CYC:HBC1	3:K5:114:LEU:CD1	2.40	0.52
3:E5:154:CYS:HB2	13:E5:201:CYC:HAC2	1.79	0.52
2:L5:43:ARG:O	2:L5:47:SER:OG	2.27	0.52
2:O5:6:ILE:CD1	2:O5:31:ARG:HD3	2.40	0.52
3:R5:39:LEU:CD2	13:R5:201:CYC:HBB3	2.11	0.52
13:T5:202:CYC:CGA	13:T5:202:CYC:CMA	2.86	0.52
3:V5:87:MET:HE3	13:V5:201:CYC:CMB	2.39	0.52
13:X5:202:CYC:NB	13:X5:202:CYC:CMA	2.73	0.52
2:Y5:36:ALA:O	2:Y5:40:GLU:OE1	2.28	0.52
2:B6:18:ARG:NH2	2:B6:24:GLU:OE2	2.43	0.52
3:I6:119:GLN:NE2	3:T6:122:GLY:HA2	2.25	0.52
13:I6:201:CYC:HMA1	13:I6:201:CYC:HB	1.75	0.52
13:I6:202:CYC:CGA	13:I6:202:CYC:CMA	2.86	0.52
2:L6:150:GLU:OE1	2:L6:154:TYR:CE2	2.63	0.52
2:S6:18:ARG:NH2	2:S6:24:GLU:OE2	2.43	0.52
13:T6:201:CYC:NB	13:T6:201:CYC:CMA	2.72	0.52
2:U6:18:ARG:NH2	2:U6:24:GLU:OE2	2.43	0.52
3:Z6:38:ARG:HH22	3:Z6:101:GLY:HA2	1.73	0.52
3:E7:39:LEU:HD13	13:E7:202:CYC:HBB2	1.91	0.52
13:E7:202:CYC:NB	13:E7:202:CYC:CMA	2.73	0.52
13:G7:202:CYC:HAB1	2:L7:34:ARG:NH1	2.25	0.52
13:K7:201:CYC:CMA	13:K7:201:CYC:CBA	2.88	0.52
7:E8:117:LYS:NZ	7:G9:161:GLN:O	2.27	0.52
7:J8:95:GLY:HA3	7:J8:104:ILE:HD11	1.92	0.52
7:O8:65:VAL:HG11	13:O8:1001:CYC:OC	2.10	0.52
7:X8:95:GLY:HA3	7:X8:104:ILE:HD11	1.92	0.52
7:Z8:95:GLY:HA3	7:Z8:104:ILE:HD11	1.92	0.52
10:19:491:ILE:HG21	10:19:671:VAL:HG21	1.92	0.52
8:O9:22:THR:HA	8:O9:25:LEU:HD12	1.92	0.52
8:j9:22:THR:HA	8:j9:25:LEU:HD12	1.92	0.52
7:s9:126:VAL:HG22	13:s9:1001:CYC:H3C	1.92	0.52
8:v9:84:ARG:NH1	13:v9:1001:CYC:CGA	2.73	0.52
8:z9:84:ARG:NH1	13:z9:1001:CYC:CGA	2.73	0.52
5:AA:59:HIS:HE1	3:GA:86:ASP:OD1	1.91	0.52
13:EA:201:CYC:CMA	13:EA:201:CYC:CBA	2.88	0.52
3:GA:150:THR:OG1	13:GA:1002:CYC:HAD1	2.10	0.52
13:GA:1002:CYC:CMA	13:GA:1002:CYC:CBA	2.88	0.52
3:MA:44:ARG:NH1	3:MA:142:ILE:O	2.43	0.52
4:NA:70:ARG:NH2	4:NA:134:ILE:O	2.40	0.52
13:PA:202:CYC:NB	13:PA:202:CYC:CMA	2.72	0.52
3:RA:44:ARG:NH1	3:RA:142:ILE:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RA:149:ILE:CG2	13:RA:201:CYC:C1D	2.87	0.52
13:TA:202:CYC:CMD	13:TA:202:CYC:NC	2.73	0.52
13:VA:202:CYC:NC	13:VA:202:CYC:CMD	2.73	0.52
2:WA:43:ARG:O	2:WA:47:SER:OG	2.27	0.52
1:A1:198:PHE:HZ	7:c8:86:ASP:CB	2.23	0.52
3:M1:114:LEU:HD13	13:M1:201:CYC:HMB2	1.91	0.52
3:Z1:68:ILE:HG13	3:Z1:69:ALA:N	2.24	0.52
2:F2:31:ARG:HG3	2:L2:26:GLN:OE1	2.10	0.52
2:J2:18:ARG:NH2	2:J2:24:GLU:OE2	2.43	0.52
13:V2:201:CYC:NB	13:V2:201:CYC:CMA	2.72	0.52
3:C3:152:GLY:CA	13:C3:201:CYC:HMD2	2.28	0.52
2:F3:31:ARG:HG3	2:L3:26:GLN:OE1	2.10	0.52
3:G3:38:ARG:HG2	3:G3:157:LEU:HD13	1.92	0.52
13:I3:202:CYC:CMA	13:I3:202:CYC:CBA	2.88	0.52
2:J3:123:PHE:CD2	13:J3:1001:CYC:CAA	2.87	0.52
1:A4:192:GLU:CD	8:W8:17:GLY:O	2.52	0.52
3:C4:150:THR:OG1	13:C4:302:CYC:HAD1	2.10	0.52
13:E4:202:CYC:NB	13:E4:202:CYC:CMA	2.72	0.52
2:F4:146:GLN:H	2:F4:146:GLN:CD	2.15	0.52
13:I4:201:CYC:HMA1	13:I4:201:CYC:HB	1.75	0.52
13:K4:201:CYC:CGA	13:K4:201:CYC:CMA	2.86	0.52
2:L4:119:ILE:HD11	13:L4:201:CYC:HMA1	1.91	0.52
13:M4:202:CYC:CMA	13:M4:202:CYC:CBA	2.88	0.52
4:N4:112:SER:C	4:N4:115:VAL:HG12	2.35	0.52
4:N4:240:GLU:HB3	4:N4:258:VAL:HG22	1.92	0.52
2:O4:29:ARG:NH2	13:P4:202:CYC:OC	2.39	0.52
3:R4:75:TYR:OH	2:S4:94:ARG:NH1	2.38	0.52
3:T4:2:THR:HA	3:T4:105:VAL:HG23	1.92	0.52
5:A5:228:ASN:HD22	7:q9:59:PHE:CA	2.20	0.52
3:C5:54:THR:C	3:C5:58:ARG:NH1	2.67	0.52
13:C5:201:CYC:NB	13:C5:201:CYC:CMA	2.72	0.52
2:D5:94:ARG:HG3	3:E5:19:PHE:CZ	2.45	0.52
3:G5:44:ARG:NH1	3:G5:142:ILE:O	2.43	0.52
13:G5:201:CYC:CMD	13:G5:201:CYC:NC	2.73	0.52
13:M5:1002:CYC:HC	13:M5:1002:CYC:HMD2	1.74	0.52
4:N5:70:ARG:NH2	4:N5:134:ILE:O	2.40	0.52
13:N5:301:CYC:HMA1	13:N5:301:CYC:HB	1.75	0.52
3:P5:44:ARG:NH1	3:P5:142:ILE:O	2.43	0.52
13:P5:201:CYC:CMD	13:P5:201:CYC:NC	2.73	0.52
3:R5:44:ARG:NH1	3:R5:142:ILE:O	2.43	0.52
2:S5:43:ARG:O	2:S5:47:SER:OG	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Z5:202:CYC:NB	13:Z5:202:CYC:CMA	2.73	0.52
5:A6:165:LYS:CE	13:E6:201:CYC:O1A	2.58	0.52
3:K6:87:MET:CE	13:K6:201:CYC:CMB	2.88	0.52
13:K6:201:CYC:NC	13:K6:201:CYC:CMD	2.73	0.52
4:N6:263:TYR:CD1	4:N6:263:TYR:C	2.89	0.52
13:N6:301:CYC:CMA	13:N6:301:CYC:NB	2.72	0.52
2:O6:2:VAL:N	3:P6:2:THR:HG1	2.08	0.52
2:S6:138:LYS:HB3	2:S6:155:ILE:HG21	1.91	0.52
2:U6:74:GLN:HA	13:U6:202:CYC:HBD2	1.92	0.52
13:A7:301:CYC:HBB1	3:C7:93:TYR:CE2	2.44	0.52
2:B7:138:LYS:HB3	2:B7:155:ILE:HG21	1.91	0.52
2:D7:103:GLY:C	2:H7:26:GLN:HE22	2.17	0.52
13:K7:201:CYC:CGA	13:K7:201:CYC:CMA	2.86	0.52
3:M7:151:LYS:HA	13:M7:201:CYC:OB	2.09	0.52
7:O8:95:GLY:HA3	7:O8:104:ILE:HD11	1.92	0.52
7:l8:65:VAL:HG11	13:l8:1001:CYC:OC	2.10	0.52
8:q8:108:ARG:NH2	10:19:1029:THR:HA	2.25	0.52
7:r8:65:VAL:HG11	13:r8:1001:CYC:OC	2.11	0.52
10:09:150:TYR:HB3	10:09:154:ASN:HB2	1.91	0.52
10:19:42:GLU:HB2	7:k9:25:ARG:HE	1.75	0.52
10:19:256:GLY:N	7:f9:12:ASP:O	2.43	0.52
10:19:1015:ARG:HD3	10:19:1072:GLU:HG3	1.92	0.52
8:F9:22:THR:HA	8:F9:25:LEU:HD12	1.92	0.52
7:K9:126:VAL:HG22	13:K9:1001:CYC:H3C	1.92	0.52
7:R9:126:VAL:HG22	13:R9:1001:CYC:H3C	1.92	0.52
7:i9:35:GLN:NE2	7:i9:145:ASP:OD1	2.43	0.52
7:o9:35:GLN:NE2	7:o9:145:ASP:OD1	2.43	0.52
7:y9:35:GLN:NE2	7:y9:145:ASP:OD1	2.43	0.52
5:AA:165:LYS:HE2	13:AA:302:CYC:O1A	2.09	0.52
2:BA:43:ARG:O	2:BA:47:SER:OG	2.27	0.52
3:CA:149:ILE:N	3:CA:149:ILE:CD1	2.73	0.52
3:PA:44:ARG:NH1	3:PA:142:ILE:O	2.43	0.52
13:RA:201:CYC:CMA	13:RA:201:CYC:CBA	2.88	0.52
13:VA:202:CYC:CGA	13:VA:202:CYC:CMA	2.86	0.52
3:XA:156:GLN:O	3:XA:159:SER:OG	2.27	0.52
13:XA:202:CYC:NB	13:XA:202:CYC:CMA	2.73	0.52
1:A1:209:THR:HG21	7:c8:66:VAL:O	2.09	0.51
2:B1:130:TYR:HB2	2:B1:162:LEU:HD21	1.92	0.51
2:D1:150:GLU:CD	2:H1:22:ASN:HD21	2.17	0.51
3:E1:2:THR:HA	3:E1:105:VAL:HG23	1.92	0.51
3:K1:77:ASN:O	3:K1:77:ASN:ND2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K1:123:THR:CG2	3:K1:124:PRO:HD2	2.39	0.51
4:N1:112:SER:C	4:N1:115:VAL:HG12	2.35	0.51
2:O1:85:CYS:CB	13:O1:1001:CYC:CAC	2.87	0.51
2:Y1:9:ALA:HB1	2:Y1:24:GLU:HB3	1.91	0.51
5:A2:194:TRP:CD1	7:d9:66:VAL:CG2	2.93	0.51
5:A2:226:VAL:CG2	7:X9:59:PHE:HD2	2.23	0.51
13:G2:201:CYC:CMA	13:G2:201:CYC:CBA	2.88	0.51
2:L2:32:TYR:CE2	3:M2:35:GLY:HA3	2.45	0.51
13:N2:301:CYC:CMA	13:N2:301:CYC:NB	2.72	0.51
2:O2:34:ARG:HH22	13:W2:203:CYC:CBC	2.22	0.51
2:O2:138:LYS:HB3	2:O2:155:ILE:HG21	1.91	0.51
13:P2:201:CYC:CMA	13:P2:201:CYC:NB	2.73	0.51
2:Q2:91:HIS:CB	13:Q2:201:CYC:CAB	2.71	0.51
2:U2:32:TYR:CE2	3:V2:35:GLY:C	2.82	0.51
13:W2:201:CYC:NB	13:W2:201:CYC:CMA	2.72	0.51
2:D3:18:ARG:NH2	2:D3:24:GLU:CD	2.66	0.51
13:K3:202:CYC:NB	13:K3:202:CYC:CMA	2.73	0.51
1:A4:11:SER:OG	1:A4:12:SER:N	2.43	0.51
3:C4:119:GLN:N	3:C4:119:GLN:OE1	2.42	0.51
3:K4:41:VAL:HG11	3:K4:157:LEU:HD21	1.91	0.51
13:M4:201:CYC:CMA	13:M4:201:CYC:NB	2.72	0.51
4:N4:195:ALA:HB3	3:R4:120:ALA:HB1	1.92	0.51
2:O4:150:GLU:OE2	2:W4:22:ASN:ND2	2.43	0.51
2:U4:134:LEU:HA	2:U4:137:ILE:HD12	1.91	0.51
3:V4:79:ARG:HA	13:V4:202:CYC:HAA1	1.91	0.51
13:V4:201:CYC:CMD	13:V4:201:CYC:NC	2.73	0.51
13:V4:201:CYC:CMA	13:V4:201:CYC:CBA	2.88	0.51
5:A5:19:SER:HB2	5:A5:165:LYS:HD2	1.92	0.51
2:J5:61:TYR:OH	2:J5:85:CYS:SG	2.68	0.51
13:K5:201:CYC:NB	13:K5:201:CYC:CMA	2.73	0.51
3:P5:93:TYR:HE2	13:P5:201:CYC:CBB	2.19	0.51
13:V5:202:CYC:CMA	13:V5:202:CYC:CBA	2.88	0.51
13:X5:202:CYC:NC	13:X5:202:CYC:CMD	2.72	0.51
13:Z5:202:CYC:CMD	13:Z5:202:CYC:NC	2.73	0.51
3:E6:41:VAL:HG22	13:E6:202:CYC:HBC3	1.92	0.51
3:G6:79:ARG:O	13:G6:202:CYC:CMD	2.58	0.51
2:H6:88:ASP:OD1	13:H6:1001:CYC:CHB	2.59	0.51
2:O6:31:ARG:O	2:O6:35:ALA:N	2.42	0.51
2:O6:34:ARG:NH1	13:X6:202:CYC:CBC	2.65	0.51
2:O6:34:ARG:HD3	2:W6:26:GLN:HG2	1.91	0.51
3:R6:85:ARG:HD2	3:R6:86:ASP:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z6:37:LYS:CB	3:Z6:157:LEU:CD1	2.87	0.51
13:Z6:201:CYC:CGA	13:Z6:201:CYC:CMA	2.86	0.51
6:A7:65:GLN:HB3	6:A7:67:PHE:CZ	2.46	0.51
6:A7:104:ARG:NE	6:A7:108:ILE:CG1	2.73	0.51
13:I7:202:CYC:CGA	13:I7:202:CYC:CMA	2.86	0.51
2:J7:18:ARG:NH2	2:J7:24:GLU:OE2	2.43	0.51
3:K7:87:MET:CE	13:K7:201:CYC:CMB	2.88	0.51
4:N7:263:TYR:C	4:N7:263:TYR:CD1	2.89	0.51
7:Q8:95:GLY:HA3	7:Q8:104:ILE:HD11	1.92	0.51
7:p8:95:GLY:HA3	7:p8:104:ILE:HD11	1.92	0.51
8:q8:111:ASN:HD22	10:19:1032:PRO:HD3	1.75	0.51
10:09:18:GLN:HE22	10:09:269:ARG:CG	2.23	0.51
10:09:274:VAL:HG22	10:09:400:THR:HG22	1.93	0.51
10:19:277:THR:OG1	10:19:317:ASN:O	2.27	0.51
7:X9:126:VAL:HG22	13:X9:1001:CYC:H3C	1.92	0.51
8:Y9:135:LYS:NZ	8:Y9:155:ASP:OD2	2.43	0.51
7:b9:126:VAL:HG22	13:b9:1001:CYC:H3C	1.92	0.51
8:h9:22:THR:HA	8:h9:25:LEU:HD12	1.92	0.51
7:y9:126:VAL:HG22	13:y9:1001:CYC:H3C	1.92	0.51
8:z9:135:LYS:NZ	8:z9:155:ASP:OD2	2.43	0.51
13:AA:303:CYC:HBC3	3:GA:87:MET:HE3	1.92	0.51
3:EA:44:ARG:NH1	3:EA:142:ILE:O	2.43	0.51
3:GA:149:ILE:N	3:GA:149:ILE:CD1	2.73	0.51
3:PA:149:ILE:N	3:PA:149:ILE:CD1	2.73	0.51
13:PA:201:CYC:CMD	13:PA:201:CYC:NC	2.73	0.51
3:RA:146:PRO:HB3	3:RA:151:LYS:HZ2	1.76	0.51
13:XA:202:CYC:CMA	13:XA:202:CYC:CBA	2.88	0.51
13:ZA:202:CYC:CMA	13:ZA:202:CYC:CBA	2.88	0.51
2:H1:9:ALA:HB1	2:H1:24:GLU:HB3	1.91	0.51
3:I1:123:THR:CG2	3:I1:124:PRO:HD2	2.38	0.51
13:I1:202:CYC:CMA	13:I1:202:CYC:CBA	2.88	0.51
13:M1:202:CYC:CMA	13:M1:202:CYC:CBA	2.88	0.51
2:O1:9:ALA:HB1	2:O1:24:GLU:HB3	1.91	0.51
2:D2:13:ALA:HB2	2:D2:24:GLU:HG2	1.90	0.51
2:D2:103:GLY:C	2:H2:26:GLN:HE22	2.17	0.51
13:E2:202:CYC:NB	13:E2:202:CYC:CMA	2.72	0.51
3:T2:76:THR:CG2	3:T2:79:ARG:CZ	2.89	0.51
2:U2:18:ARG:NH2	2:U2:24:GLU:OE2	2.43	0.51
3:X2:76:THR:OG1	3:X2:77:ASN:N	2.39	0.51
13:C3:201:CYC:CGA	13:C3:201:CYC:CMA	2.86	0.51
2:H3:88:ASP:OD1	13:H3:1001:CYC:CHB	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:129:ILE:HB	13:C4:301:CYC:CGA	2.39	0.51
2:B4:130:TYR:HB2	2:B4:162:LEU:HD21	1.92	0.51
3:G4:2:THR:HA	3:G4:105:VAL:HG23	1.92	0.51
13:G4:201:CYC:NB	13:G4:201:CYC:CMA	2.73	0.51
13:K4:202:CYC:CMD	13:K4:202:CYC:NC	2.72	0.51
2:L4:9:ALA:HB1	2:L4:24:GLU:HB3	1.91	0.51
4:N4:68:THR:O	4:N4:71:GLU:N	2.43	0.51
2:O4:123:PHE:CE2	13:O4:1001:CYC:CAA	2.93	0.51
13:P4:201:CYC:CMD	13:P4:201:CYC:NC	2.73	0.51
2:Y4:9:ALA:HB1	2:Y4:24:GLU:HB3	1.91	0.51
3:C5:44:ARG:NH1	3:C5:142:ILE:O	2.43	0.51
4:N5:22:GLU:O	4:N5:24:ARG:N	2.43	0.51
2:Q5:5:PRO:HG2	2:Q5:31:ARG:HD2	1.92	0.51
3:V5:40:ASP:OD2	3:V5:40:ASP:N	2.39	0.51
3:X5:44:ARG:NH1	3:X5:142:ILE:O	2.43	0.51
3:Z5:86:ASP:OD1	13:Z5:201:CYC:HMB2	2.10	0.51
2:B6:119:ILE:HD12	13:B6:1001:CYC:CMA	2.28	0.51
2:D6:29:ARG:CB	13:E6:202:CYC:HBB2	2.40	0.51
2:F6:31:ARG:HG3	2:L6:26:GLN:OE1	2.10	0.51
3:K6:117:THR:HB	13:K6:201:CYC:O1D	2.10	0.51
13:N6:302:CYC:C2B	3:T6:83:CYS:CB	2.87	0.51
2:O6:31:ARG:NH2	2:O6:35:ALA:HA	2.25	0.51
3:P6:83:CYS:HB2	13:P6:201:CYC:C3C	2.34	0.51
6:A7:102:ASN:ND2	3:C7:109:ARG:HB3	2.19	0.51
13:C7:201:CYC:NB	13:C7:201:CYC:CMA	2.72	0.51
2:F7:61:TYR:HH	2:F7:85:CYS:HG	1.56	0.51
13:K7:201:CYC:NB	13:K7:201:CYC:CMA	2.72	0.51
7:A8:65:VAL:HG11	13:A8:1001:CYC:OC	2.11	0.51
8:B8:77:ARG:CZ	13:B8:1001:CYC:O1D	2.56	0.51
7:H8:65:VAL:HG11	13:H8:1001:CYC:OC	2.10	0.51
7:L8:49:ARG:NH1	8:W9:140:SER:CB	2.72	0.51
7:S8:95:GLY:HA3	7:S8:104:ILE:HD11	1.92	0.51
7:V8:20:PRO:HB3	7:p8:151:SER:OG	2.10	0.51
7:V8:65:VAL:HG11	13:V8:1001:CYC:OC	2.10	0.51
7:n8:65:VAL:HG11	13:n8:1001:CYC:OC	2.11	0.51
10:09:152:PRO:HA	10:09:155:MET:HB2	1.91	0.51
10:19:921:LYS:HD2	10:19:937:TYR:HB3	1.91	0.51
8:F9:135:LYS:NZ	8:F9:155:ASP:OD2	2.43	0.51
7:P9:35:GLN:NE2	7:P9:145:ASP:OD1	2.43	0.51
11:Q9:158:ASP:O	11:Q9:161:THR:HB	2.10	0.51
7:R9:35:GLN:NE2	7:R9:145:ASP:OD1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W9:22:THR:HA	8:W9:25:LEU:HD12	1.92	0.51
7:i9:110:ILE:HG23	8:n9:77:ARG:HB3	1.91	0.51
8:x9:22:THR:HA	8:x9:25:LEU:HD12	1.92	0.51
8:x9:135:LYS:NZ	8:x9:155:ASP:OD2	2.43	0.51
5:AA:17:VAL:HG21	13:AA:302:CYC:C3A	2.40	0.51
5:AA:167:MET:SD	13:AA:302:CYC:HBA1	2.51	0.51
3:CA:44:ARG:NH1	3:CA:142:ILE:O	2.43	0.51
2:DA:43:ARG:O	2:DA:47:SER:OG	2.27	0.51
13:MA:1002:CYC:CMD	13:MA:1002:CYC:NC	2.73	0.51
4:NA:22:GLU:O	4:NA:24:ARG:N	2.43	0.51
3:RA:151:LYS:HA	3:RA:151:LYS:CE	2.40	0.51
13:RA:201:CYC:CMD	13:RA:201:CYC:NC	2.72	0.51
3:XA:154:CYS:SG	13:XA:202:CYC:CAB	2.98	0.51
2:YA:43:ARG:O	2:YA:47:SER:OG	2.27	0.51
3:G1:69:ALA:HB2	8:d8:16:GLN:HE21	1.75	0.51
13:I1:202:CYC:NC	13:I1:202:CYC:CMD	2.73	0.51
4:N1:240:GLU:HB3	4:N1:258:VAL:HG22	1.92	0.51
3:P1:2:THR:HA	3:P1:105:VAL:HG23	1.92	0.51
13:Q1:202:CYC:CMD	13:Q1:202:CYC:NC	2.73	0.51
2:U1:130:TYR:HB2	2:U1:162:LEU:HD21	1.92	0.51
3:V1:79:ARG:HA	13:V1:202:CYC:HAA1	1.91	0.51
5:A2:6:LEU:HD22	13:C2:201:CYC:CBA	2.41	0.51
2:B2:18:ARG:NH2	2:B2:24:GLU:OE2	2.43	0.51
2:D2:138:LYS:HB3	2:D2:155:ILE:HG21	1.91	0.51
13:E2:202:CYC:CMA	13:E2:202:CYC:CBA	2.88	0.51
2:F2:138:LYS:HB3	2:F2:155:ILE:HG21	1.91	0.51
3:G2:34:GLU:OE2	3:G2:157:LEU:HD21	1.84	0.51
3:G2:70:PRO:O	7:d9:68:PRO:HG3	2.10	0.51
13:G2:201:CYC:CGA	13:G2:201:CYC:CMA	2.86	0.51
13:I2:202:CYC:CGA	13:I2:202:CYC:CMA	2.86	0.51
2:L2:31:ARG:NH1	2:L2:101:VAL:O	2.43	0.51
2:L2:138:LYS:HB3	2:L2:155:ILE:HG21	1.91	0.51
4:N2:63:ARG:CD	13:V2:202:CYC:O2D	2.59	0.51
4:N2:104:LEU:C	4:N2:152:ARG:HH21	2.15	0.51
2:Q2:31:ARG:HH22	2:Q2:35:ALA:HB1	1.61	0.51
2:S2:26:GLN:NE2	2:Y2:103:GLY:O	2.43	0.51
13:T2:201:CYC:CMD	13:T2:201:CYC:NC	2.73	0.51
13:T2:201:CYC:CMA	13:T2:201:CYC:CBA	2.88	0.51
2:W2:125:LEU:HD11	13:W2:202:CYC:CHA	2.41	0.51
2:Y2:31:ARG:HD3	2:Y2:31:ARG:C	2.33	0.51
6:A3:153:PHE:CD2	6:A3:153:PHE:N	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E3:41:VAL:HG22	13:E3:202:CYC:HBC3	1.92	0.51
2:F3:138:LYS:HB3	2:F3:155:ILE:HG21	1.91	0.51
1:A4:60:LEU:N	1:A4:60:LEU:CD1	2.73	0.51
3:C4:88:GLU:O	3:C4:92:ARG:N	2.43	0.51
2:H4:9:ALA:HB1	2:H4:24:GLU:HB3	1.91	0.51
2:H4:143:LEU:HG	2:H4:148:ALA:HB2	1.91	0.51
2:J4:9:ALA:HB1	2:J4:24:GLU:HB3	1.91	0.51
3:K4:2:THR:HA	3:K4:105:VAL:HG23	1.92	0.51
13:Q4:202:CYC:CMA	13:Q4:202:CYC:CBA	2.88	0.51
3:X4:123:THR:HG22	3:X4:124:PRO:HD2	1.92	0.51
3:Z4:2:THR:HA	3:Z4:105:VAL:HG23	1.92	0.51
5:A5:208:GLU:C	5:A5:209:LYS:O	2.53	0.51
13:A5:304:CYC:C4B	3:K5:74:ALA:HB2	2.29	0.51
2:B5:43:ARG:O	2:B5:47:SER:OG	2.27	0.51
2:D5:43:ARG:O	2:D5:47:SER:OG	2.27	0.51
3:G5:152:GLY:CA	13:G5:201:CYC:CMD	2.85	0.51
2:Q5:28:ALA:O	2:Q5:32:TYR:CE2	2.63	0.51
3:R5:151:LYS:HA	3:R5:151:LYS:CE	2.40	0.51
13:R5:201:CYC:CMA	13:R5:201:CYC:CBA	2.88	0.51
13:T5:202:CYC:NB	13:T5:202:CYC:CMA	2.72	0.51
2:U5:6:ILE:HG13	2:U5:31:ARG:CD	2.40	0.51
13:V5:202:CYC:CGA	13:V5:202:CYC:CMA	2.86	0.51
3:X5:149:ILE:N	3:X5:149:ILE:CD1	2.73	0.51
5:A6:222:LEU:HD22	7:I9:82:LEU:CD1	2.32	0.51
2:B6:138:LYS:HB3	2:B6:155:ILE:HG21	1.91	0.51
13:C6:202:CYC:HAB1	2:J6:34:ARG:CZ	2.37	0.51
13:G6:201:CYC:NB	13:G6:201:CYC:CMA	2.73	0.51
2:H6:31:ARG:NE	2:H6:35:ALA:HB2	2.25	0.51
3:K6:40:ASP:CG	3:K6:149:ILE:HD13	2.36	0.51
13:N6:301:CYC:HC	13:N6:301:CYC:HMD2	1.73	0.51
3:R6:154:CYS:SG	13:U6:201:CYC:C1C	2.98	0.51
2:D7:31:ARG:O	2:D7:35:ALA:CB	2.58	0.51
13:G7:202:CYC:CGA	13:G7:202:CYC:CMA	2.86	0.51
2:L7:18:ARG:NH2	2:L7:24:GLU:OE2	2.43	0.51
2:L7:32:TYR:CE2	3:M7:35:GLY:HA3	2.45	0.51
3:M7:89:ILE:HG21	13:N7:301:CYC:HBB3	1.91	0.51
13:N7:301:CYC:CMD	13:N7:301:CYC:NC	2.73	0.51
8:B8:88:TYR:HE2	8:B8:91:ARG:HH21	1.56	0.51
7:J8:65:VAL:HG11	13:J8:1001:CYC:OC	2.10	0.51
7:O8:30:VAL:HG13	8:P8:32:PHE:HB3	1.92	0.51
7:c8:41:GLN:OE1	7:c8:41:GLN:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:n8:14:GLU:HG2	10:09:973:LEU:HD21	1.92	0.51
8:o8:77:ARG:CD	10:09:1117:TRP:HE1	2.23	0.51
7:t8:65:VAL:HG11	13:t8:1001:CYC:OC	2.11	0.51
10:19:38:GLY:HA2	10:19:41:ASP:HB2	1.91	0.51
9:49:18:ARG:HD2	9:49:22:GLU:HG3	1.92	0.51
8:L9:22:THR:HA	8:L9:25:LEU:HD12	1.92	0.51
7:N9:35:GLN:NE2	7:N9:145:ASP:OD1	2.43	0.51
8:U9:22:THR:HA	8:U9:25:LEU:HD12	1.92	0.51
7:f9:126:VAL:HG22	13:f9:1001:CYC:H3C	1.92	0.51
7:u9:126:VAL:HG22	13:u9:1001:CYC:H3C	1.92	0.51
2:DA:17:GLY:O	3:EA:92:ARG:NH2	2.43	0.51
3:MA:152:GLY:HA3	13:MA:1003:CYC:CMA	2.40	0.51
4:NA:154:PHE:O	13:TA:201:CYC:O1D	2.28	0.51
13:PA:202:CYC:CMA	13:PA:202:CYC:CBA	2.88	0.51
2:QA:28:ALA:O	2:QA:32:TYR:CE2	2.63	0.51
2:SA:61:TYR:OH	2:SA:85:CYS:SG	2.68	0.51
3:TA:44:ARG:NH1	3:TA:142:ILE:O	2.43	0.51
3:VA:155:SER:HA	3:VA:158:ILE:HB	1.92	0.51
2:B1:9:ALA:HB1	2:B1:24:GLU:HB3	1.91	0.51
13:K1:201:CYC:CMA	13:K1:201:CYC:CBA	2.88	0.51
4:N1:23:LEU:O	4:N1:24:ARG:C	2.53	0.51
2:O1:123:PHE:CE2	13:O1:1001:CYC:CAA	2.93	0.51
13:P1:202:CYC:NC	13:P1:202:CYC:CMD	2.73	0.51
3:R1:2:THR:HA	3:R1:105:VAL:HG23	1.92	0.51
13:V1:201:CYC:CMA	13:V1:201:CYC:CBA	2.88	0.51
2:Y1:134:LEU:HA	2:Y1:137:ILE:HD12	1.91	0.51
13:Z1:201:CYC:NB	13:Z1:201:CYC:CMA	2.73	0.51
3:E2:41:VAL:HG22	13:E2:202:CYC:HBC3	1.92	0.51
13:I2:201:CYC:HMA1	13:I2:201:CYC:HB	1.75	0.51
2:Q2:34:ARG:HD3	13:V2:201:CYC:H2C	1.91	0.51
2:S2:138:LYS:HB3	2:S2:155:ILE:HG21	1.91	0.51
13:U2:201:CYC:CGA	13:U2:201:CYC:CMA	2.86	0.51
2:W2:138:LYS:HB3	2:W2:155:ILE:HG21	1.91	0.51
2:Y2:138:LYS:HB3	2:Y2:155:ILE:HG21	1.91	0.51
3:Z2:83:CYS:CA	13:Z2:202:CYC:HAC2	2.36	0.51
13:Z2:201:CYC:CMA	13:Z2:201:CYC:CBA	2.88	0.51
13:E3:202:CYC:CMA	13:E3:202:CYC:CBA	2.88	0.51
2:L3:18:ARG:NH2	2:L3:24:GLU:OE2	2.43	0.51
13:M3:201:CYC:CMA	13:M3:201:CYC:CBA	2.88	0.51
1:A4:191:ILE:CG2	8:a8:68:ARG:NH1	2.73	0.51
2:F4:134:LEU:HA	2:F4:137:ILE:HD12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J4:130:TYR:HB2	2:J4:162:LEU:HD21	1.92	0.51
3:M4:86:ASP:O	3:M4:89:ILE:N	2.42	0.51
2:U4:9:ALA:HB1	2:U4:24:GLU:HB3	1.91	0.51
2:U4:130:TYR:HB2	2:U4:162:LEU:HD21	1.92	0.51
13:V4:201:CYC:CMA	13:V4:201:CYC:NB	2.72	0.51
5:A5:166:ARG:NH2	5:A5:171:PRO:CD	2.74	0.51
13:I5:201:CYC:HMA1	13:I5:201:CYC:HB	1.75	0.51
2:W5:32:TYR:CZ	3:X5:35:GLY:HA3	2.45	0.51
13:Z5:202:CYC:CMA	13:Z5:202:CYC:CBA	2.88	0.51
13:C6:202:CYC:CMA	13:C6:202:CYC:CBA	2.88	0.51
13:E6:202:CYC:CMA	13:E6:202:CYC:CBA	2.88	0.51
2:H6:138:LYS:HB3	2:H6:155:ILE:HG21	1.91	0.51
13:W6:201:CYC:CMD	13:W6:201:CYC:HC	2.24	0.51
2:B7:18:ARG:NH2	2:B7:24:GLU:OE2	2.43	0.51
3:G7:38:ARG:HG2	3:G7:157:LEU:HD13	1.92	0.51
13:K7:202:CYC:CMA	13:K7:202:CYC:CBA	2.88	0.51
7:H8:154:ASP:OD1	8:Y9:47:ALA:HB2	2.11	0.51
7:S8:65:VAL:HG11	13:S8:1001:CYC:OC	2.10	0.51
7:c8:95:GLY:HA3	7:c8:104:ILE:HD11	1.92	0.51
7:g8:95:GLY:HA3	7:g8:104:ILE:HD11	1.92	0.51
7:l8:95:GLY:HA3	7:l8:104:ILE:HD11	1.92	0.51
8:s8:78:ARG:NH1	10:19:947:VAL:CB	2.71	0.51
13:19:1203:CYC:CGA	8:Y9:84:ARG:NH1	2.73	0.51
7:G9:35:GLN:NE2	7:G9:145:ASP:OD1	2.43	0.51
8:M9:22:THR:HA	8:M9:25:LEU:HD12	1.92	0.51
8:S9:84:ARG:NH1	13:S9:1001:CYC:CGA	2.73	0.51
11:g9:130:GLY:HA2	11:g9:133:ILE:HD12	1.93	0.51
8:j9:84:ARG:NH1	13:j9:1001:CYC:CGA	2.73	0.51
13:MA:1003:CYC:CGA	13:MA:1003:CYC:CMA	2.86	0.51
2:YA:31:ARG:HH21	2:YA:31:ARG:HG3	1.74	0.51
13:ZA:202:CYC:NB	13:ZA:202:CYC:CMA	2.73	0.51
13:ZA:202:CYC:CMD	13:ZA:202:CYC:HC	2.24	0.51
3:I1:36:ASN:HD21	13:I1:202:CYC:C2D	2.24	0.51
2:J1:134:LEU:HA	2:J1:137:ILE:HD12	1.91	0.51
3:K1:121:LEU:HD23	13:K1:201:CYC:O1D	2.09	0.51
13:M1:201:CYC:CMD	13:M1:201:CYC:NC	2.73	0.51
13:P1:202:CYC:CMA	13:P1:202:CYC:CBA	2.88	0.51
2:Q1:130:TYR:HB2	2:Q1:162:LEU:HD21	1.92	0.51
13:Z1:201:CYC:CMA	13:Z1:201:CYC:CBA	2.88	0.51
3:G2:79:ARG:O	13:G2:202:CYC:CMD	2.58	0.51
3:G2:154:CYS:HG	13:G2:201:CYC:H2C	1.70	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M2:201:CYC:CMA	13:M2:201:CYC:CBA	2.88	0.51
2:O2:31:ARG:O	2:O2:35:ALA:N	2.42	0.51
3:R2:154:CYS:SG	13:U2:201:CYC:C1C	2.98	0.51
2:Y2:91:HIS:HB3	13:Y2:201:CYC:CBB	2.41	0.51
13:Z2:201:CYC:CMD	13:Z2:201:CYC:HC	2.24	0.51
2:H3:138:LYS:HB3	2:H3:155:ILE:HG21	1.91	0.51
3:K3:117:THR:HB	13:K3:201:CYC:O1D	2.10	0.51
13:K3:201:CYC:CMA	13:K3:201:CYC:CBA	2.88	0.51
2:L3:138:LYS:HB3	2:L3:155:ILE:HG21	1.91	0.51
13:C4:302:CYC:CMA	13:C4:302:CYC:CBA	2.88	0.51
13:E4:202:CYC:CGA	13:E4:202:CYC:CMA	2.86	0.51
13:I4:202:CYC:CMA	13:I4:202:CYC:CBA	2.88	0.51
13:K4:201:CYC:CMA	13:K4:201:CYC:CBA	2.88	0.51
13:K4:202:CYC:CMD	13:K4:202:CYC:HC	2.24	0.51
2:Q4:123:PHE:CD2	13:Q4:201:CYC:HAA2	2.45	0.51
3:R4:80:MET:HE2	2:S4:123:PHE:HE2	1.76	0.51
5:A5:52:TYR:CZ	5:A5:71:GLU:OE2	2.63	0.51
2:F5:43:ARG:O	2:F5:47:SER:OG	2.27	0.51
3:G5:154:CYS:HB3	13:G5:201:CYC:HAC2	1.90	0.51
3:P5:144:ASN:O	13:P5:202:CYC:HBB1	2.11	0.51
2:U5:31:ARG:NH2	3:V5:6:PHE:CE2	2.79	0.51
3:V5:154:CYS:SG	13:V5:202:CYC:C3B	2.99	0.51
5:A6:195:ARG:CZ	3:G6:66:GLN:HE22	2.24	0.51
3:G6:154:CYS:HB2	13:G6:201:CYC:HBC1	1.92	0.51
13:H6:1001:CYC:O1D	3:M6:58:ARG:NH1	2.44	0.51
2:L6:31:ARG:NH1	2:L6:101:VAL:O	2.43	0.51
13:U6:201:CYC:CMA	13:U6:201:CYC:CBA	2.88	0.51
3:V6:43:ASN:HD22	13:V6:201:CYC:HBC3	1.75	0.51
13:V6:201:CYC:CMD	13:V6:201:CYC:HC	2.24	0.51
3:Z6:43:ASN:ND2	13:Z6:201:CYC:HBC3	2.20	0.51
2:D7:85:CYS:CA	13:D7:1001:CYC:HAC2	2.40	0.51
13:M7:201:CYC:CMD	13:M7:201:CYC:HC	2.24	0.51
7:A8:95:GLY:HA3	7:A8:104:ILE:HD11	1.92	0.51
7:C8:65:VAL:HG11	13:C8:1001:CYC:OC	2.10	0.51
7:H8:115:MET:HG3	8:M8:79:TYR:CE1	2.46	0.51
7:V8:101:VAL:CG1	7:p8:20:PRO:HG2	2.40	0.51
7:c8:65:VAL:HG11	13:c8:1001:CYC:OC	2.10	0.51
7:l8:125:ALA:CB	13:l8:1001:CYC:HMC2	2.33	0.51
8:o8:113:LEU:CD2	13:o8:1001:CYC:CMB	2.86	0.51
7:t8:125:ALA:CB	13:t8:1001:CYC:HMC2	2.33	0.51
7:E9:35:GLN:NE2	7:E9:145:ASP:OD1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M9:76:THR:HG23	7:N9:111:GLY:H	1.75	0.51
8:v9:135:LYS:NZ	8:v9:155:ASP:OD2	2.43	0.51
13:CA:201:CYC:NC	13:CA:201:CYC:CMD	2.73	0.51
3:IA:119:GLN:NE2	3:TA:122:GLY:HA2	2.26	0.51
4:NA:61:LEU:HB3	4:NA:67:LEU:HD12	1.91	0.51
2:YA:36:ALA:O	2:YA:40:GLU:OE1	2.28	0.51
1:A1:198:PHE:CE1	7:c8:82:LEU:O	2.64	0.51
2:B1:87:ARG:CB	8:d8:23:ALA:HB2	2.36	0.51
3:K1:82:ALA:HB2	13:K1:201:CYC:O2A	2.09	0.51
13:K1:201:CYC:NB	13:K1:201:CYC:CMA	2.73	0.51
13:T1:201:CYC:CGA	13:T1:201:CYC:CMA	2.86	0.51
13:X1:202:CYC:CMD	13:X1:202:CYC:HC	2.24	0.51
13:Z1:201:CYC:CMD	13:Z1:201:CYC:HC	2.24	0.51
3:I2:119:GLN:NE2	3:T2:122:GLY:HA2	2.25	0.51
13:I2:202:CYC:CMD	13:I2:202:CYC:HC	2.24	0.51
13:N2:302:CYC:C2B	3:T2:83:CYS:CB	2.87	0.51
13:U2:201:CYC:CMA	13:U2:201:CYC:CBA	2.88	0.51
2:W2:34:ARG:CZ	13:W2:201:CYC:H2C	2.25	0.51
13:W2:201:CYC:CMA	13:W2:201:CYC:CBA	2.88	0.51
13:W2:203:CYC:CMD	13:W2:203:CYC:HC	2.24	0.51
3:X2:60:LEU:HD12	3:X2:87:MET:HE1	1.91	0.51
6:A3:73:ARG:NH1	6:A3:73:ARG:CG	2.73	0.51
6:A3:103:TYR:CD1	6:A3:128:SER:OG	2.60	0.51
13:E3:202:CYC:HBD1	13:E3:202:CYC:CHA	2.28	0.51
2:B4:9:ALA:HB1	2:B4:24:GLU:HB3	1.91	0.51
3:C4:2:THR:HA	3:C4:105:VAL:HG23	1.92	0.51
3:I4:36:ASN:HD21	13:I4:202:CYC:C2D	2.24	0.51
3:M4:85:ARG:NH1	13:M4:201:CYC:O1A	2.44	0.51
13:M4:201:CYC:OB	4:N4:253:ARG:HG2	2.10	0.51
13:Q4:202:CYC:CGA	13:Q4:202:CYC:CMA	2.86	0.51
2:Y4:29:ARG:NH2	13:Z4:201:CYC:OC	2.33	0.51
2:Y4:134:LEU:HA	2:Y4:137:ILE:HD12	1.91	0.51
5:A5:54:GLN:NE2	5:A5:162:TYR:HA	2.26	0.51
3:C5:149:ILE:N	3:C5:149:ILE:CD1	2.73	0.51
13:E5:201:CYC:NB	13:E5:201:CYC:CMA	2.73	0.51
2:H5:119:ILE:HD11	3:M5:80:MET:HB3	1.93	0.51
13:I5:202:CYC:NC	13:I5:202:CYC:CMD	2.73	0.51
3:M5:44:ARG:NH1	3:M5:142:ILE:O	2.43	0.51
13:P5:202:CYC:CMA	13:P5:202:CYC:CBA	2.88	0.51
13:R5:201:CYC:NB	13:R5:201:CYC:CMA	2.72	0.51
13:M6:201:CYC:CMD	13:M6:201:CYC:HC	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P6:201:CYC:CMD	13:P6:201:CYC:NC	2.73	0.51
13:P6:201:CYC:CMA	13:P6:201:CYC:NB	2.73	0.51
2:Q6:26:GLN:NE2	2:U6:103:GLY:O	2.44	0.51
2:U6:32:TYR:CE2	3:V6:35:GLY:C	2.82	0.51
2:W6:125:LEU:HD11	13:W6:202:CYC:CHA	2.41	0.51
2:Y6:91:HIS:HB3	13:Y6:201:CYC:CBB	2.41	0.51
13:C7:201:CYC:CMA	13:C7:201:CYC:CBA	2.88	0.51
13:G7:202:CYC:CMA	13:G7:202:CYC:CBA	2.88	0.51
13:M7:201:CYC:NB	13:M7:201:CYC:CMA	2.72	0.51
8:B8:121:GLY:CA	10:09:534:LYS:HD2	2.41	0.51
7:C8:5:THR:CG2	10:09:540:PHE:CD1	2.93	0.51
7:C8:95:GLY:HA3	7:C8:104:ILE:HD11	1.92	0.51
7:H8:69:GLY:HA3	7:Z9:64:ASP:OD2	2.11	0.51
13:k8:1001:CYC:O2A	10:09:1059:ASN:ND2	2.39	0.51
8:o8:16:GLN:CA	10:09:938:ASN:HD22	2.23	0.51
13:29:1001:CYC:CGA	8:W9:84:ARG:NH1	2.73	0.51
7:T9:126:VAL:HG22	13:T9:1001:CYC:H3C	1.92	0.51
8:W9:135:LYS:NZ	8:W9:155:ASP:OD2	2.43	0.51
8:p9:22:THR:HA	8:p9:25:LEU:HD12	1.92	0.51
8:t9:63:TYR:CZ	5:AA:201:PHE:CZ	2.98	0.51
5:AA:53:ARG:HG2	5:AA:58:GLU:HG3	1.92	0.51
13:AA:304:CYC:HB	13:AA:304:CYC:HMA1	1.75	0.51
13:EA:201:CYC:CMD	13:EA:201:CYC:HC	2.24	0.51
3:GA:44:ARG:NH1	3:GA:142:ILE:O	2.43	0.51
13:IA:201:CYC:HMA1	13:IA:201:CYC:HB	1.75	0.51
13:MA:1003:CYC:NC	13:MA:1003:CYC:CMD	2.73	0.51
3:PA:144:ASN:O	13:PA:202:CYC:HBB1	2.11	0.51
13:VA:202:CYC:CMA	13:VA:202:CYC:CBA	2.88	0.51
3:XA:40:ASP:OD2	3:XA:40:ASP:N	2.39	0.51
3:XA:44:ARG:NH1	3:XA:142:ILE:O	2.43	0.51
1:A1:11:SER:OG	1:A1:12:SER:N	2.43	0.51
1:A1:96:VAL:HG13	1:A1:97:ILE:HG13	1.92	0.51
3:C1:2:THR:HA	3:C1:105:VAL:HG23	1.92	0.51
13:G1:201:CYC:NC	13:G1:201:CYC:CMD	2.73	0.51
3:I1:1:MET:N	3:I1:108:ASP:OD2	2.36	0.51
2:Q1:123:PHE:CD2	13:Q1:201:CYC:HAA2	2.45	0.51
3:R1:78:ARG:HH22	3:R1:79:ARG:HD3	1.76	0.51
2:U1:9:ALA:HB1	2:U1:24:GLU:HB3	1.91	0.51
13:V1:201:CYC:CMD	13:V1:201:CYC:HC	2.24	0.51
2:W1:37:ALA:O	2:W1:147:ALA:HB1	2.11	0.51
2:W1:130:TYR:HB2	2:W1:162:LEU:HD21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z1:88:GLU:O	3:Z1:92:ARG:N	2.43	0.51
3:G2:154:CYS:HB2	13:G2:201:CYC:HBC1	1.92	0.51
3:K2:87:MET:CE	13:K2:201:CYC:CMB	2.88	0.51
13:K2:201:CYC:NB	13:K2:201:CYC:CMA	2.73	0.51
2:L2:150:GLU:OE1	2:L2:154:TYR:CE2	2.63	0.51
2:Q2:26:GLN:CG	2:U2:34:ARG:HD3	2.16	0.51
13:W2:203:CYC:CMA	13:W2:203:CYC:CBA	2.88	0.51
3:X2:58:ARG:NH1	2:Y2:73:PRO:CB	2.74	0.51
6:A3:125:ILE:HG23	3:C3:117:THR:CG2	2.40	0.51
13:C3:201:CYC:CMA	13:C3:201:CYC:CBA	2.88	0.51
3:G3:71:GLY:N	2:FA:62:GLN:OE1	2.44	0.51
3:K3:76:THR:OG1	3:K3:77:ASN:N	2.39	0.51
13:K3:202:CYC:CMD	13:K3:202:CYC:HC	2.24	0.51
1:A4:96:VAL:HG13	1:A4:97:ILE:HG13	1.92	0.51
13:I4:202:CYC:CMD	13:I4:202:CYC:HC	2.24	0.51
13:P4:202:CYC:CMD	13:P4:202:CYC:HC	2.24	0.51
2:W4:130:TYR:HB2	2:W4:162:LEU:HD21	1.92	0.51
3:X4:79:ARG:NH1	13:X4:201:CYC:O1D	2.44	0.51
13:Z4:201:CYC:CMA	13:Z4:201:CYC:CBA	2.88	0.51
5:A5:34:ARG:NH1	4:N5:250:PRO:O	2.40	0.51
4:N5:61:LEU:HB3	4:N5:67:LEU:HD12	1.92	0.51
3:T5:44:ARG:NH1	3:T5:142:ILE:O	2.43	0.51
2:B6:119:ILE:HD13	13:B6:1001:CYC:CMA	2.33	0.51
2:D6:31:ARG:O	2:D6:35:ALA:CB	2.58	0.51
2:F6:138:LYS:HB3	2:F6:155:ILE:HG21	1.91	0.51
2:H6:18:ARG:NH2	2:H6:24:GLU:OE2	2.43	0.51
2:W6:138:LYS:HB3	2:W6:155:ILE:HG21	1.91	0.51
2:Y6:138:LYS:HB3	2:Y6:155:ILE:HG21	1.91	0.51
6:A7:104:ARG:HE	6:A7:108:ILE:HG12	1.76	0.51
3:G7:154:CYS:HB2	13:G7:202:CYC:HBC1	1.92	0.51
2:H7:18:ARG:NH2	2:H7:24:GLU:OE2	2.43	0.51
2:H7:88:ASP:OD1	13:H7:1001:CYC:CHB	2.59	0.51
13:I7:202:CYC:CMA	13:I7:202:CYC:CBA	2.88	0.51
8:B8:50:ALA:HB3	7:I9:161:GLN:OE1	2.11	0.51
7:S8:25:ARG:HD3	7:w9:25:ARG:CD	2.41	0.51
8:T8:77:ARG:CZ	13:T8:1001:CYC:O1D	2.56	0.51
7:X8:65:VAL:HG11	13:X8:1001:CYC:OC	2.11	0.51
7:Z8:7:SER:OG	7:Z8:25:ARG:NH2	2.39	0.51
7:Z8:59:PHE:CD2	7:I9:73:TYR:OH	2.62	0.51
7:c8:41:GLN:NE2	8:d8:25:LEU:CD1	2.61	0.51
7:j8:65:VAL:HG11	13:j8:1001:CYC:OC	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:19:1204:CYC:CGA	8:a9:84:ARG:NH1	2.73	0.51
9:39:8:THR:HA	9:39:28:PHE:O	2.11	0.51
8:S9:135:LYS:NZ	8:S9:155:ASP:OD2	2.43	0.51
8:Y9:22:THR:HA	8:Y9:25:LEU:HD12	1.92	0.51
8:c9:84:ARG:NH1	13:c9:1001:CYC:CGA	2.73	0.51
8:r9:22:THR:HA	8:r9:25:LEU:HD12	1.92	0.51
7:s9:35:GLN:NE2	7:s9:145:ASP:OD1	2.43	0.51
5:AA:64:PHE:HZ	2:JA:18:ARG:CD	2.15	0.51
5:AA:166:ARG:HH21	5:AA:171:PRO:N	2.07	0.51
3:EA:38:ARG:HD3	3:EA:157:LEU:HD12	1.93	0.51
2:JA:32:TYR:CE1	3:KA:35:GLY:HA2	2.42	0.51
13:KA:201:CYC:CMD	13:KA:201:CYC:HC	2.24	0.51
3:MA:149:ILE:N	3:MA:149:ILE:CD1	2.73	0.51
13:MA:1003:CYC:NB	13:MA:1003:CYC:CMA	2.72	0.51
3:TA:114:LEU:HD22	13:TA:201:CYC:HBC1	1.93	0.51
2:UA:31:ARG:NH2	3:VA:6:PHE:CE2	2.79	0.51
3:VA:154:CYS:SG	13:VA:202:CYC:C3B	2.99	0.51
13:XA:202:CYC:CMD	13:XA:202:CYC:HC	2.24	0.51
13:C1:302:CYC:CMA	13:C1:302:CYC:CBA	2.88	0.51
2:D1:130:TYR:HB2	2:D1:162:LEU:HD21	1.92	0.51
3:E1:88:GLU:O	3:E1:92:ARG:N	2.43	0.51
3:G1:2:THR:HA	3:G1:105:VAL:HG23	1.92	0.51
3:G1:86:ASP:O	3:G1:89:ILE:N	2.41	0.51
2:H1:31:ARG:NH2	2:H1:101:VAL:O	2.44	0.51
13:I1:201:CYC:HB	13:I1:201:CYC:HMA1	1.75	0.51
2:J1:31:ARG:NH2	2:J1:101:VAL:O	2.44	0.51
3:K1:41:VAL:HG11	3:K1:157:LEU:HD21	1.91	0.51
4:N1:155:GLU:H	4:N1:157:GLN:HE22	1.53	0.51
3:X1:79:ARG:NH1	13:X1:201:CYC:O1D	2.44	0.51
5:A2:197:THR:OG1	7:d9:78:THR:CG2	2.59	0.51
3:K2:40:ASP:CG	3:K2:149:ILE:HD13	2.36	0.51
4:N2:253:ARG:HG2	13:N2:301:CYC:OB	2.11	0.51
6:A3:65:GLN:HB3	6:A3:67:PHE:CZ	2.46	0.51
2:B3:3:LYS:NZ	2:J3:16:GLN:HE22	2.09	0.51
2:B3:119:ILE:HD13	13:B3:1001:CYC:CMA	2.33	0.51
3:G3:76:THR:OG1	3:G3:77:ASN:N	2.39	0.51
2:L3:32:TYR:CE2	3:M3:35:GLY:HA3	2.45	0.51
2:L3:64:PHE:O	2:L3:67:THR:OG1	2.29	0.51
13:M3:201:CYC:CMD	13:M3:201:CYC:HC	2.24	0.51
1:A4:90:GLU:HA	1:A4:93:LYS:HB3	1.93	0.51
1:A4:107:GLU:HG3	1:A4:118:PRO:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K4:88:GLU:O	3:K4:92:ARG:N	2.43	0.51
13:K4:201:CYC:CMD	13:K4:201:CYC:HC	2.24	0.51
2:L4:130:TYR:HB2	2:L4:162:LEU:HD21	1.92	0.51
13:M4:202:CYC:NB	13:M4:202:CYC:CMA	2.72	0.51
13:M4:202:CYC:CMD	13:M4:202:CYC:HC	2.24	0.51
4:N4:62:LEU:HD11	4:N4:72:PHE:CD1	2.46	0.51
4:N4:179:ASP:OD2	4:N4:189:ARG:NH1	2.29	0.51
2:W4:37:ALA:O	2:W4:147:ALA:HB1	2.11	0.51
2:W4:134:LEU:HA	2:W4:137:ILE:HD12	1.91	0.51
13:X4:202:CYC:CMA	13:X4:202:CYC:CBA	2.88	0.51
13:Z4:201:CYC:CMD	13:Z4:201:CYC:HC	2.24	0.51
5:A5:17:VAL:HG21	13:A5:302:CYC:C3A	2.40	0.51
5:A5:59:HIS:HA	3:G5:85:ARG:HG3	1.93	0.51
2:D5:17:GLY:HA2	3:E5:92:ARG:HH12	1.76	0.51
13:E5:201:CYC:CMD	13:E5:201:CYC:HC	2.24	0.51
13:G5:201:CYC:NB	13:G5:201:CYC:CMA	2.73	0.51
13:T5:202:CYC:CMA	13:T5:202:CYC:CBA	2.88	0.51
3:V5:87:MET:CE	13:V5:201:CYC:HMB3	2.40	0.51
13:X5:202:CYC:CMD	13:X5:202:CYC:HC	2.24	0.51
13:Z5:202:CYC:CMD	13:Z5:202:CYC:HC	2.24	0.51
2:D6:119:ILE:CD1	13:D6:1001:CYC:CMA	2.86	0.51
2:D6:138:LYS:HB3	2:D6:155:ILE:HG21	1.91	0.51
13:G6:201:CYC:CMD	13:G6:201:CYC:HC	2.24	0.51
2:L6:32:TYR:CE2	3:M6:35:GLY:HA3	2.45	0.51
13:K7:202:CYC:CGA	13:K7:202:CYC:CMA	2.86	0.51
2:L7:31:ARG:NH1	2:L7:101:VAL:O	2.43	0.51
7:e8:65:VAL:HG11	13:e8:1001:CYC:OC	2.10	0.51
7:e8:95:GLY:HA3	7:e8:104:ILE:HD11	1.92	0.51
8:u8:15:VAL:HG23	10:19:944:SER:CB	2.41	0.51
10:09:20:LEU:HD23	10:09:46:TYR:CD2	2.46	0.51
8:D9:22:THR:HA	8:D9:25:LEU:HD12	1.92	0.51
8:M9:135:LYS:NZ	8:M9:155:ASP:OD2	2.43	0.51
7:b9:35:GLN:NE2	7:b9:145:ASP:OD1	2.43	0.51
7:d9:65:VAL:HB	7:d9:72:ALA:HB3	1.93	0.51
8:h9:135:LYS:NZ	8:h9:155:ASP:OD2	2.43	0.51
8:j9:135:LYS:NZ	8:j9:155:ASP:OD2	2.43	0.51
7:q9:35:GLN:NE2	7:q9:145:ASP:OD1	2.43	0.51
8:r9:135:LYS:NZ	8:r9:155:ASP:OD2	2.43	0.51
5:AA:211:LEU:HG	5:AA:217:ARG:HG2	1.93	0.51
13:CA:201:CYC:CMA	13:CA:201:CYC:CBA	2.88	0.51
3:GA:152:GLY:CA	13:GA:1002:CYC:HMD1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:PA:202:CYC:CMD	13:PA:202:CYC:HC	2.24	0.51
3:TA:114:LEU:CD1	13:TA:201:CYC:CAC	2.89	0.51
13:TA:202:CYC:CBD	13:TA:202:CYC:CHA	2.85	0.51
2:UA:6:ILE:HG13	2:UA:31:ARG:CD	2.40	0.51
3:ZA:44:ARG:NH1	3:ZA:145:ASP:OD2	2.27	0.51
3:C1:150:THR:OG1	13:C1:302:CYC:HAD1	2.10	0.51
2:F1:31:ARG:NH2	2:F1:101:VAL:O	2.44	0.51
13:M1:201:CYC:OB	4:N1:253:ARG:HG2	2.10	0.51
4:N1:173:ARG:HH22	4:N1:203:VAL:HB	1.76	0.51
3:P1:76:THR:CG2	3:P1:79:ARG:CG	2.89	0.51
13:T1:201:CYC:CMA	13:T1:201:CYC:CBA	2.88	0.51
5:A2:234:GLN:NE2	7:J8:73:TYR:CE1	2.68	0.51
3:C2:76:THR:OG1	3:C2:77:ASN:N	2.39	0.51
13:E2:202:CYC:CMD	13:E2:202:CYC:HC	2.24	0.51
3:G2:38:ARG:HG2	3:G2:157:LEU:HD13	1.92	0.51
3:G2:152:GLY:CA	13:G2:201:CYC:CMD	2.89	0.51
3:P2:34:GLU:HA	3:P2:37:LYS:NZ	2.25	0.51
6:A3:63:ASN:OD1	6:A3:91:VAL:HG21	2.08	0.51
13:N3:301:CYC:CMD	13:N3:301:CYC:NC	2.73	0.51
2:H4:31:ARG:NH2	2:H4:101:VAL:O	2.44	0.51
13:I4:202:CYC:CGA	13:I4:202:CYC:CMA	2.86	0.51
3:K4:68:ILE:HD13	13:L4:201:CYC:O2A	1.98	0.51
3:K4:77:ASN:ND2	3:K4:77:ASN:O	2.43	0.51
2:O4:31:ARG:NH2	2:O4:101:VAL:O	2.44	0.51
2:S4:29:ARG:HD3	13:T4:201:CYC:OB	2.10	0.51
13:A5:302:CYC:HMC2	3:E5:128:VAL:HG22	1.92	0.51
3:E5:154:CYS:SG	13:E5:201:CYC:CMC	2.97	0.51
2:L5:61:TYR:HH	2:L5:85:CYS:HG	1.58	0.51
13:P5:202:CYC:NB	13:P5:202:CYC:CMA	2.72	0.51
2:Q5:31:ARG:HH11	2:Q5:103:GLY:HA2	1.65	0.51
2:S5:29:ARG:NE	13:T5:202:CYC:OB	2.38	0.51
3:X5:154:CYS:SG	13:X5:202:CYC:CAB	2.98	0.51
5:A6:202:TYR:CZ	7:N9:48:GLU:HB3	2.46	0.51
3:I6:41:VAL:HG23	13:I6:202:CYC:HMB2	1.86	0.51
13:I6:202:CYC:CMA	13:I6:202:CYC:CBA	2.88	0.51
2:O6:64:PHE:O	2:O6:67:THR:OG1	2.29	0.51
2:Q6:64:PHE:O	2:Q6:67:THR:OG1	2.29	0.51
2:S6:26:GLN:NE2	2:Y6:103:GLY:O	2.43	0.51
2:U6:64:PHE:O	2:U6:67:THR:OG1	2.29	0.51
13:W6:201:CYC:CMA	13:W6:201:CYC:CBA	2.88	0.51
13:G7:202:CYC:CMD	13:G7:202:CYC:HC	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J7:64:PHE:O	2:J7:67:THR:OG1	2.29	0.51
4:N7:253:ARG:HG2	13:N7:301:CYC:OB	2.11	0.51
7:J8:5:THR:HG22	10:19:540:PHE:CE2	2.45	0.51
8:P8:88:TYR:HE2	8:P8:91:ARG:HH21	1.56	0.51
7:p8:65:VAL:HG11	13:p8:1001:CYC:OC	2.11	0.51
7:t8:95:GLY:HA3	7:t8:104:ILE:HD11	1.92	0.51
10:19:761:ILE:HD13	10:19:792:LEU:HD13	1.92	0.51
10:19:1011:ARG:O	10:19:1015:ARG:NH1	2.43	0.51
9:49:8:THR:HA	9:49:28:PHE:O	2.11	0.51
8:D9:84:ARG:NH1	13:D9:1001:CYC:CGA	2.73	0.51
7:I9:35:GLN:NE2	7:I9:145:ASP:OD1	2.43	0.51
8:O9:135:LYS:NZ	8:O9:155:ASP:OD2	2.43	0.51
8:U9:135:LYS:NZ	8:U9:155:ASP:OD2	2.43	0.51
7:f9:35:GLN:NE2	7:f9:145:ASP:OD1	2.43	0.51
7:q9:65:VAL:HB	7:q9:72:ALA:HB3	1.93	0.51
2:DA:94:ARG:HG3	3:EA:19:PHE:CZ	2.45	0.51
13:MA:1002:CYC:HB	13:MA:1002:CYC:HMA2	1.73	0.51
2:WA:32:TYR:CZ	3:XA:35:GLY:HA3	2.45	0.51
1:A1:67:ASN:OD1	3:K1:92:ARG:NH1	2.43	0.51
3:C1:20:LEU:HD22	3:C1:24:GLN:OE1	2.11	0.51
2:D1:31:ARG:NH2	2:D1:101:VAL:O	2.44	0.51
2:L1:130:TYR:HB2	2:L1:162:LEU:HD21	1.92	0.51
4:N1:168:ILE:HG13	4:N1:172:TYR:HE1	1.76	0.51
2:Y1:31:ARG:NH2	2:Y1:101:VAL:O	2.44	0.51
5:A2:131:ILE:HB	13:C2:201:CYC:O1A	2.11	0.51
13:H2:1001:CYC:O1D	3:M2:58:ARG:NH1	2.44	0.51
13:I2:202:CYC:NB	13:I2:202:CYC:CMA	2.72	0.51
3:P2:87:MET:HE2	13:P2:201:CYC:HBC1	1.92	0.51
2:S2:18:ARG:NH2	2:S2:24:GLU:OE2	2.43	0.51
3:Z2:54:THR:O	3:Z2:58:ARG:HG2	2.11	0.51
6:A3:84:ARG:HH21	6:A3:144:LEU:CD1	2.23	0.51
2:D3:31:ARG:O	2:D3:35:ALA:CB	2.58	0.51
13:I3:201:CYC:HMA1	13:I3:201:CYC:HB	1.75	0.51
13:I3:202:CYC:CMD	13:I3:202:CYC:HC	2.24	0.51
13:K3:202:CYC:CGA	13:K3:202:CYC:CMA	2.85	0.51
2:L3:74:GLN:HG3	2:L3:75:PHE:CD2	2.46	0.51
2:L3:150:GLU:OE1	2:L3:154:TYR:CE2	2.63	0.51
4:N3:263:TYR:CD1	4:N3:263:TYR:C	2.88	0.51
2:H4:130:TYR:HB2	2:H4:162:LEU:HD21	1.92	0.51
2:J4:143:LEU:HG	2:J4:148:ALA:HB2	1.93	0.51
4:N4:112:SER:HA	4:N4:115:VAL:CG1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Q4:202:CYC:CMD	13:Q4:202:CYC:HC	2.24	0.51
3:R4:2:THR:HA	3:R4:105:VAL:HG23	1.92	0.51
13:X4:202:CYC:CMD	13:X4:202:CYC:HC	2.24	0.51
2:D5:17:GLY:O	3:E5:92:ARG:NH2	2.43	0.51
2:D5:98:TYR:OH	3:E5:18:GLU:O	2.27	0.51
2:J5:43:ARG:O	2:J5:47:SER:OG	2.27	0.51
3:K5:40:ASP:OD2	3:K5:40:ASP:N	2.39	0.51
13:P5:202:CYC:CMD	13:P5:202:CYC:HC	2.24	0.51
2:B6:68:THR:O	2:B6:77:ALA:CB	2.58	0.51
13:C6:202:CYC:CMD	13:C6:202:CYC:HC	2.24	0.51
2:D6:2:VAL:HG22	3:E6:7:THR:HG21	1.93	0.51
2:F6:3:LYS:HD3	2:L6:23:THR:HG21	1.92	0.51
2:J6:64:PHE:O	2:J6:67:THR:OG1	2.29	0.51
2:S6:64:PHE:O	2:S6:67:THR:OG1	2.29	0.51
6:A7:110:LEU:HD23	6:A7:114:LEU:HD12	1.88	0.51
2:B7:64:PHE:O	2:B7:67:THR:OG1	2.29	0.51
2:F7:64:PHE:O	2:F7:67:THR:OG1	2.29	0.51
2:H7:64:PHE:O	2:H7:67:THR:OG1	2.29	0.51
13:I7:201:CYC:HMA1	13:I7:201:CYC:HB	1.75	0.51
13:I7:202:CYC:CMD	13:I7:202:CYC:HC	2.24	0.51
7:C8:125:ALA:CB	13:C8:1001:CYC:HMC2	2.33	0.51
7:L8:65:VAL:HG11	13:L8:1001:CYC:OC	2.11	0.51
8:q8:108:ARG:HH22	10:19:1029:THR:HA	1.76	0.51
10:19:253:ASP:O	11:g9:108:ARG:NH2	2.44	0.51
9:29:8:THR:HA	9:29:28:PHE:O	2.11	0.51
8:B9:84:ARG:NH1	13:B9:1001:CYC:CGA	2.73	0.51
8:B9:135:LYS:NZ	8:B9:155:ASP:OD2	2.43	0.51
7:C9:126:VAL:HG22	13:C9:1001:CYC:H3C	1.92	0.51
7:d9:126:VAL:HG22	13:d9:1001:CYC:H3C	1.92	0.51
5:AA:231:ASN:OD1	5:AA:232:TYR:N	2.44	0.51
3:EA:149:ILE:N	3:EA:149:ILE:CD1	2.73	0.51
2:FA:10:ILE:HD13	3:GA:96:TYR:HB3	1.93	0.51
2:HA:119:ILE:HD11	3:MA:80:MET:HB3	1.93	0.51
4:NA:91:PHE:CZ	13:NA:301:CYC:C4B	2.94	0.51
3:RA:40:ASP:OD2	3:RA:40:ASP:N	2.39	0.51
13:E1:202:CYC:CMA	13:E1:202:CYC:CBA	2.88	0.50
4:N1:112:SER:CA	4:N1:115:VAL:HG12	2.38	0.50
3:R1:80:MET:HE2	2:S1:123:PHE:HE2	1.76	0.50
2:S1:141:HIS:HE1	2:S1:143:LEU:HB3	1.76	0.50
3:X1:123:THR:HG22	3:X1:124:PRO:HD2	1.92	0.50
3:Z1:144:ASN:O	13:Z1:201:CYC:HBB1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:61:TYR:HH	2:B2:85:CYS:HG	1.57	0.50
2:D2:119:ILE:CD1	13:D2:1001:CYC:CMA	2.86	0.50
2:L2:64:PHE:O	2:L2:67:THR:OG1	2.29	0.50
4:N2:263:TYR:CD1	4:N2:263:TYR:C	2.88	0.50
13:N2:302:CYC:HMC1	3:T2:89:ILE:HG21	1.92	0.50
2:S2:85:CYS:SG	13:S2:1001:CYC:CAC	2.96	0.50
13:V2:201:CYC:HBD1	13:V2:201:CYC:CHA	2.29	0.50
3:X2:31:VAL:O	3:X2:35:GLY:N	2.42	0.50
13:Z2:201:CYC:NB	13:Z2:201:CYC:CMA	2.73	0.50
6:A3:104:ARG:HE	6:A3:108:ILE:HG12	1.76	0.50
2:D3:64:PHE:O	2:D3:67:THR:OG1	2.29	0.50
2:J3:61:TYR:HH	2:J3:85:CYS:HG	1.59	0.50
3:K3:41:VAL:O	3:K3:45:ILE:HG12	2.11	0.50
1:A4:67:ASN:OD1	3:K4:92:ARG:NH1	2.44	0.50
3:G4:70:PRO:HG3	8:W8:18:LYS:HZ1	1.62	0.50
13:G4:201:CYC:CMD	13:G4:201:CYC:HC	2.24	0.50
3:P4:76:THR:CG2	3:P4:79:ARG:CG	2.88	0.50
3:T4:68:ILE:HG13	3:T4:69:ALA:N	2.26	0.50
3:X4:2:THR:HA	3:X4:105:VAL:HG23	1.92	0.50
3:Z4:144:ASN:O	13:Z4:201:CYC:HBB1	2.11	0.50
5:A5:9:LYS:HD3	3:E5:112:ASN:HD21	1.77	0.50
5:A5:132:VAL:HG13	5:A5:136:LYS:HD2	1.93	0.50
5:A5:211:LEU:HG	5:A5:217:ARG:HG2	1.93	0.50
3:K5:44:ARG:NH1	3:K5:142:ILE:O	2.43	0.50
13:K5:201:CYC:CMD	13:K5:201:CYC:HC	2.24	0.50
3:P5:149:ILE:N	3:P5:149:ILE:CD1	2.73	0.50
3:Z5:83:CYS:HA	13:Z5:201:CYC:CAC	2.40	0.50
2:O6:34:ARG:NH2	13:X6:202:CYC:CBC	2.73	0.50
2:Q6:31:ARG:HH11	2:Q6:103:GLY:HA3	1.74	0.50
3:E7:85:ARG:NH2	13:E7:201:CYC:HBA2	2.25	0.50
13:E7:202:CYC:CMD	13:E7:202:CYC:HC	2.24	0.50
2:F7:31:ARG:O	2:F7:35:ALA:N	2.35	0.50
2:F7:31:ARG:HG3	2:L7:26:GLN:OE1	2.10	0.50
2:H7:88:ASP:OD1	13:H7:1001:CYC:HHB	2.10	0.50
13:K7:202:CYC:NB	13:K7:202:CYC:CMA	2.73	0.50
13:N7:301:CYC:HHA	13:N7:301:CYC:CBA	2.26	0.50
7:E8:65:VAL:HG11	13:E8:1001:CYC:OC	2.10	0.50
7:E8:89:LEU:HG	8:F8:19:TYR:HE1	1.75	0.50
9:N8:43:ARG:CD	10:19:652:THR:HG21	2.40	0.50
7:Q8:65:VAL:HG11	13:Q8:1001:CYC:OC	2.11	0.50
7:Z8:65:VAL:HG11	13:Z8:1001:CYC:OC	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g8:65:VAL:HG11	13:g8:1001:CYC:OC	2.10	0.50
7:r8:95:GLY:HA3	7:r8:104:ILE:HD11	1.92	0.50
7:t8:83:ARG:HD3	10:19:934:GLY:N	2.25	0.50
10:19:464:PHE:O	10:19:610:TYR:OH	2.27	0.50
7:E9:126:VAL:HG22	13:E9:1001:CYC:H3C	1.92	0.50
8:J9:84:ARG:NH1	13:J9:1001:CYC:CGA	2.73	0.50
8:J9:135:LYS:NZ	8:J9:155:ASP:OD2	2.43	0.50
3:EA:76:THR:OG1	2:FA:111:TYR:HA	2.11	0.50
13:EA:201:CYC:NB	13:EA:201:CYC:CMA	2.73	0.50
3:GA:152:GLY:CA	13:GA:1002:CYC:CMD	2.85	0.50
3:KA:44:ARG:NH1	3:KA:142:ILE:O	2.43	0.50
13:RA:201:CYC:NB	13:RA:201:CYC:CMA	2.72	0.50
13:VA:202:CYC:CMD	13:VA:202:CYC:HC	2.24	0.50
1:A1:167:ASP:OD1	1:A1:168:ARG:N	2.45	0.50
3:E1:39:LEU:HD13	13:E1:202:CYC:HBB2	1.93	0.50
3:I1:2:THR:HA	3:I1:105:VAL:HG23	1.92	0.50
3:I1:36:ASN:HD21	13:I1:202:CYC:CAD	2.24	0.50
2:J1:130:TYR:HB2	2:J1:162:LEU:HD21	1.92	0.50
3:M1:88:GLU:O	3:M1:92:ARG:N	2.43	0.50
13:P1:202:CYC:CMD	13:P1:202:CYC:HC	2.24	0.50
5:A2:103:ASN:HD21	3:C2:112:ASN:ND2	2.10	0.50
5:A2:195:ARG:CZ	3:G2:66:GLN:HE22	2.24	0.50
5:A2:238:ALA:O	5:A2:241:ILE:HG13	2.11	0.50
13:C2:202:CYC:NB	13:C2:202:CYC:CMA	2.72	0.50
2:O2:31:ARG:NH2	2:O2:35:ALA:HA	2.25	0.50
3:X2:58:ARG:NH1	2:Y2:73:PRO:HB2	2.25	0.50
3:I3:87:MET:CE	13:I3:201:CYC:HBC3	2.11	0.50
1:A4:198:PHE:CD1	7:V8:82:LEU:C	2.89	0.50
2:D4:123:PHE:CD2	13:D4:1001:CYC:HAA2	2.47	0.50
2:F4:138:LYS:O	2:F4:141:HIS:NE2	2.44	0.50
3:R4:88:GLU:O	3:R4:92:ARG:N	2.43	0.50
13:V4:201:CYC:CMD	13:V4:201:CYC:HC	2.24	0.50
5:A5:53:ARG:HG2	5:A5:58:GLU:HG3	1.92	0.50
3:E5:76:THR:OG1	2:F5:111:TYR:HA	2.11	0.50
3:E5:154:CYS:HB2	13:E5:201:CYC:CBC	2.41	0.50
3:G5:38:ARG:NH1	3:G5:98:ILE:O	2.45	0.50
13:M5:1003:CYC:CMD	13:M5:1003:CYC:HC	2.24	0.50
3:T5:152:GLY:HA3	13:T5:202:CYC:CMD	2.29	0.50
3:V5:121:LEU:HD23	13:V5:201:CYC:CGA	2.41	0.50
5:A6:230:GLY:N	7:I9:66:VAL:HG12	2.08	0.50
13:I6:202:CYC:CMD	13:I6:202:CYC:HC	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N6:63:ARG:CD	13:V6:202:CYC:O2D	2.59	0.50
2:Q6:31:ARG:HD3	2:Q6:31:ARG:C	2.36	0.50
3:X6:38:ARG:HD2	3:X6:157:LEU:CD2	2.40	0.50
2:Y6:64:PHE:O	2:Y6:67:THR:OG1	2.29	0.50
2:B7:3:LYS:NZ	2:J7:16:GLN:HE22	2.09	0.50
2:D7:29:ARG:CB	13:E7:202:CYC:HBB2	2.40	0.50
2:L7:64:PHE:O	2:L7:67:THR:OG1	2.29	0.50
2:L7:150:GLU:OE1	2:L7:154:TYR:CE2	2.63	0.50
8:m8:109:VAL:HA	10:09:1099:ALA:HB1	1.91	0.50
10:09:430:PHE:CZ	13:09:1203:CYC:HAA1	2.46	0.50
7:G9:65:VAL:HB	7:G9:72:ALA:HB3	1.93	0.50
8:J9:22:THR:HA	8:J9:25:LEU:HD12	1.92	0.50
8:S9:22:THR:HA	8:S9:25:LEU:HD12	1.92	0.50
8:U9:63:TYR:HE1	12:V9:80:LEU:HD13	1.76	0.50
7:Z9:65:VAL:HB	7:Z9:72:ALA:HB3	1.93	0.50
8:c9:22:THR:HA	8:c9:25:LEU:HD12	1.92	0.50
7:i9:65:VAL:HB	7:i9:72:ALA:HB3	1.93	0.50
7:i9:126:VAL:HG22	13:i9:1001:CYC:H3C	1.92	0.50
8:t9:63:TYR:HA	5:AA:205:LYS:HZ3	1.49	0.50
8:z9:22:THR:HA	8:z9:25:LEU:HD12	1.92	0.50
5:AA:52:TYR:CZ	5:AA:71:GLU:OE2	2.63	0.50
5:AA:54:GLN:NE2	5:AA:162:TYR:HA	2.26	0.50
13:AA:304:CYC:HBC1	3:KA:114:LEU:CD1	2.40	0.50
3:CA:38:ARG:NH1	3:CA:98:ILE:O	2.44	0.50
13:GA:1002:CYC:CMD	13:GA:1002:CYC:HC	2.24	0.50
3:IA:38:ARG:NH1	3:IA:98:ILE:O	2.44	0.50
13:MA:1003:CYC:CMD	13:MA:1003:CYC:HC	2.24	0.50
4:NA:96:ILE:HD13	4:NA:114:VAL:HG22	1.92	0.50
3:PA:38:ARG:NH1	3:PA:98:ILE:O	2.45	0.50
3:VA:40:ASP:OD2	3:VA:40:ASP:N	2.39	0.50
13:C1:302:CYC:CGA	13:C1:302:CYC:CMA	2.86	0.50
2:D1:123:PHE:CD2	13:D1:1001:CYC:HAA2	2.47	0.50
3:M1:85:ARG:NH1	13:M1:201:CYC:O1A	2.44	0.50
5:A2:247:VAL:HG11	7:J8:83:ARG:HD3	1.92	0.50
3:C2:157:LEU:O	3:C2:161:VAL:N	2.43	0.50
2:U2:64:PHE:O	2:U2:67:THR:OG1	2.29	0.50
13:W2:201:CYC:CMD	13:W2:201:CYC:HC	2.24	0.50
2:F3:64:PHE:O	2:F3:67:THR:OG1	2.29	0.50
3:G3:79:ARG:O	13:G3:201:CYC:CMD	2.58	0.50
13:G3:202:CYC:CMD	13:G3:202:CYC:HC	2.24	0.50
3:M3:145:ASP:O	13:M3:201:CYC:CBB	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N3:253:ARG:HG2	13:N3:301:CYC:OB	2.11	0.50
1:A4:195:ILE:CG1	7:V8:83:ARG:NH1	2.73	0.50
3:E4:2:THR:HA	3:E4:105:VAL:HG23	1.92	0.50
3:I4:150:THR:HG21	13:I4:202:CYC:HAA2	1.93	0.50
3:K4:121:LEU:HD23	13:K4:201:CYC:O1D	2.09	0.50
2:S4:141:HIS:HE1	2:S4:143:LEU:HB3	1.76	0.50
2:H5:114:ALA:HB3	3:M5:78:ARG:HB2	1.92	0.50
3:K5:68:ILE:HD13	13:L5:201:CYC:O2A	2.11	0.50
4:N5:88:TYR:HA	3:R5:109:ARG:NH2	2.25	0.50
3:R5:38:ARG:NH1	3:R5:98:ILE:O	2.45	0.50
13:R5:201:CYC:CMD	13:R5:201:CYC:HC	2.24	0.50
13:V5:202:CYC:CMD	13:V5:202:CYC:HC	2.24	0.50
3:Z5:38:ARG:NH1	3:Z5:98:ILE:O	2.45	0.50
13:C6:202:CYC:HAB2	2:J6:34:ARG:NH1	2.26	0.50
2:F6:64:PHE:O	2:F6:67:THR:OG1	2.29	0.50
3:K6:38:ARG:CG	3:K6:38:ARG:NH1	2.72	0.50
13:T6:201:CYC:CMD	13:T6:201:CYC:HC	2.24	0.50
2:U6:73:PRO:O	13:U6:202:CYC:HBD2	2.11	0.50
3:V6:121:LEU:HD13	13:V6:202:CYC:O2A	2.11	0.50
2:W6:64:PHE:O	2:W6:67:THR:OG1	2.29	0.50
2:D7:23:THR:HG23	2:D7:24:GLU:CD	2.36	0.50
3:K7:41:VAL:O	3:K7:45:ILE:HG12	2.11	0.50
3:K7:43:ASN:CG	13:K7:202:CYC:HBC1	2.37	0.50
9:U8:25:ASN:OD1	10:09:856:GLU:CB	2.56	0.50
8:f8:77:ARG:CZ	13:f8:1001:CYC:O1D	2.56	0.50
8:B9:22:THR:HA	8:B9:25:LEU:HD12	1.92	0.50
8:H9:22:THR:HA	8:H9:25:LEU:HD12	1.92	0.50
7:o9:65:VAL:HB	7:o9:72:ALA:HB3	1.93	0.50
7:q9:126:VAL:HG22	13:q9:1001:CYC:H3C	1.92	0.50
8:v9:22:THR:HA	8:v9:25:LEU:HD12	1.92	0.50
5:AA:38:VAL:HG13	5:AA:39:SER:N	2.25	0.50
13:AA:302:CYC:HMC2	3:EA:128:VAL:HG22	1.92	0.50
2:JA:43:ARG:O	2:JA:47:SER:OG	2.27	0.50
2:QA:5:PRO:HG2	2:QA:31:ARG:HD2	1.92	0.50
3:TA:38:ARG:NH1	3:TA:98:ILE:O	2.45	0.50
3:XA:149:ILE:N	3:XA:149:ILE:CD1	2.73	0.50
3:XA:154:CYS:CB	13:XA:202:CYC:C3B	2.90	0.50
2:F1:130:TYR:HB2	2:F1:162:LEU:HD21	1.92	0.50
2:F1:146:GLN:H	2:F1:146:GLN:CD	2.15	0.50
2:J1:143:LEU:HG	2:J1:148:ALA:HB2	1.93	0.50
3:T1:76:THR:CG2	3:T1:79:ARG:CG	2.89	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T1:154:CYS:CB	13:T1:201:CYC:CAC	2.84	0.50
3:V1:39:LEU:CD1	13:V1:201:CYC:OC	2.60	0.50
3:X1:2:THR:HA	3:X1:105:VAL:HG23	1.92	0.50
3:X1:53:VAL:HG21	3:X1:88:GLU:HG2	1.94	0.50
5:A2:128:ALA:O	5:A2:131:ILE:HG22	2.12	0.50
5:A2:195:ARG:NH2	3:G2:66:GLN:HE22	2.10	0.50
13:C2:202:CYC:CMD	13:C2:202:CYC:HC	2.24	0.50
3:G2:66:GLN:CG	7:d9:66:VAL:HG12	2.38	0.50
2:H2:31:ARG:NH1	2:H2:103:GLY:HA3	2.21	0.50
2:O2:61:TYR:HH	2:O2:85:CYS:HG	1.56	0.50
2:O2:64:PHE:O	2:O2:67:THR:OG1	2.29	0.50
2:S2:64:PHE:O	2:S2:67:THR:OG1	2.29	0.50
13:U2:201:CYC:CMD	13:U2:201:CYC:HC	2.24	0.50
13:V2:201:CYC:CMD	13:V2:201:CYC:HC	2.24	0.50
13:W2:203:CYC:NB	13:W2:203:CYC:CMA	2.73	0.50
2:Y2:64:PHE:O	2:Y2:67:THR:OG1	2.29	0.50
13:Z2:201:CYC:CGA	13:Z2:201:CYC:CMA	2.86	0.50
6:A3:52:GLN:HG3	6:A3:112:ARG:HA	1.93	0.50
6:A3:97:ALA:HB3	6:A3:136:LEU:CD1	2.30	0.50
2:B3:64:PHE:O	2:B3:67:THR:OG1	2.29	0.50
2:H3:64:PHE:O	2:H3:67:THR:OG1	2.29	0.50
3:K3:43:ASN:CG	13:K3:202:CYC:HBC1	2.37	0.50
1:A4:198:PHE:HZ	7:V8:86:ASP:CG	2.20	0.50
2:B4:31:ARG:NH2	2:B4:101:VAL:O	2.44	0.50
3:I4:36:ASN:HD21	13:I4:202:CYC:CAD	2.24	0.50
2:J4:66:TYR:O	2:J4:70:THR:OG1	2.30	0.50
13:M4:202:CYC:HC	13:M4:202:CYC:HMD2	1.77	0.50
4:N4:173:ARG:HH22	4:N4:203:VAL:HB	1.76	0.50
2:S4:130:TYR:HB2	2:S4:162:LEU:HD21	1.92	0.50
5:A5:108:VAL:HG11	5:A5:126:GLN:HA	1.93	0.50
5:A5:167:MET:SD	13:A5:302:CYC:HBA1	2.51	0.50
5:A5:223:ALA:O	5:A5:226:VAL:HG12	2.12	0.50
3:I5:119:GLN:NE2	3:T5:122:GLY:HA2	2.26	0.50
13:I5:202:CYC:CGA	13:I5:202:CYC:CMA	2.86	0.50
13:I5:202:CYC:CMD	13:I5:202:CYC:HC	2.24	0.50
4:N5:91:PHE:CZ	13:N5:301:CYC:C4B	2.94	0.50
3:T5:38:ARG:NH1	3:T5:98:ILE:O	2.45	0.50
3:T5:128:VAL:HG22	13:T5:201:CYC:C2B	2.42	0.50
13:K6:202:CYC:CMD	13:K6:202:CYC:HC	2.24	0.50
4:N6:253:ARG:HG2	13:N6:301:CYC:OB	2.11	0.50
3:P6:68:ILE:CD1	13:Q6:201:CYC:O2A	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D7:64:PHE:O	2:D7:67:THR:OG1	2.29	0.50
3:G7:152:GLY:CA	13:G7:202:CYC:CMD	2.89	0.50
13:K7:201:CYC:CMD	13:K7:201:CYC:HC	2.24	0.50
2:L7:74:GLN:HG3	2:L7:75:PHE:CD2	2.46	0.50
7:A8:65:VAL:CG1	13:A8:1001:CYC:OC	2.60	0.50
7:A8:125:ALA:CB	13:A8:1001:CYC:HMC2	2.33	0.50
9:N8:43:ARG:HD2	10:19:652:THR:HG21	1.94	0.50
9:U8:30:LYS:HB3	10:09:779:THR:HG23	1.93	0.50
7:X8:65:VAL:CG1	13:X8:1001:CYC:OC	2.60	0.50
7:j8:65:VAL:CG1	13:j8:1001:CYC:OC	2.60	0.50
10:19:954:ARG:HH21	10:19:954:ARG:CG	2.13	0.50
9:39:5:PHE:O	9:39:31:LEU:HA	2.12	0.50
9:49:41:GLN:HE22	13:F9:1001:CYC:HB	1.57	0.50
7:P9:126:VAL:HG22	13:P9:1001:CYC:H3C	1.92	0.50
7:X9:65:VAL:HB	7:X9:72:ALA:HB3	1.93	0.50
8:e9:22:THR:HA	8:e9:25:LEU:HD12	1.92	0.50
8:l9:76:THR:HG23	12:m9:111:GLY:H	1.77	0.50
8:t9:135:LYS:NZ	8:t9:155:ASP:OD2	2.43	0.50
7:u9:46:ASN:HD22	7:u9:140:LEU:HD21	1.77	0.50
7:y9:46:ASN:HD22	7:y9:140:LEU:HD21	1.77	0.50
13:IA:202:CYC:CMD	13:IA:202:CYC:HC	2.24	0.50
3:KA:38:ARG:NH1	3:KA:98:ILE:O	2.45	0.50
4:NA:88:TYR:HA	3:RA:109:ARG:NH2	2.25	0.50
13:PA:202:CYC:CGA	13:PA:202:CYC:CMA	2.86	0.50
13:TA:202:CYC:CMA	13:TA:202:CYC:CBA	2.88	0.50
3:VA:77:ASN:OD1	13:WA:1001:CYC:C4B	2.60	0.50
3:ZA:83:CYS:HA	13:ZA:201:CYC:CAC	2.40	0.50
2:D1:29:ARG:CD	13:E1:202:CYC:OB	2.59	0.50
13:I1:202:CYC:CMD	13:I1:202:CYC:HC	2.24	0.50
3:K1:79:ARG:HA	13:K1:201:CYC:CGA	2.38	0.50
13:K1:201:CYC:CMD	13:K1:201:CYC:HC	2.24	0.50
4:N1:68:THR:OG1	4:N1:145:ASP:O	2.29	0.50
4:N1:195:ALA:HB3	3:R1:120:ALA:HB1	1.92	0.50
2:O1:29:ARG:NH2	13:P1:202:CYC:OC	2.39	0.50
2:O1:134:LEU:HA	2:O1:137:ILE:HD12	1.91	0.50
13:V1:201:CYC:HC	13:V1:201:CYC:HMD2	1.77	0.50
3:G2:70:PRO:O	7:d9:68:PRO:CG	2.59	0.50
13:M2:201:CYC:CMD	13:M2:201:CYC:HC	2.24	0.50
13:W2:201:CYC:HMD2	13:W2:201:CYC:HC	1.77	0.50
2:D3:119:ILE:CD1	13:D3:1001:CYC:CMA	2.86	0.50
3:K3:111:LEU:HD22	3:K3:171:ALA:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:201:LEU:CD2	7:V8:52:LYS:HE3	2.41	0.50
2:L4:143:LEU:HG	2:L4:148:ALA:HB2	1.92	0.50
3:R4:86:ASP:O	3:R4:89:ILE:N	2.39	0.50
5:A5:194:TRP:CZ3	7:u9:52:LYS:HG3	2.47	0.50
3:E5:44:ARG:NH1	3:E5:142:ILE:O	2.43	0.50
2:F5:10:ILE:HD13	3:G5:96:TYR:HB3	1.93	0.50
3:R5:149:ILE:H	3:R5:149:ILE:CD1	2.25	0.50
3:V5:77:ASN:OD1	13:W5:1001:CYC:C4B	2.60	0.50
4:N6:80:GLU:O	4:N6:84:LYS:N	2.44	0.50
4:N6:237:TYR:CE1	4:N6:285:SER:HB2	2.47	0.50
13:N6:301:CYC:HBA2	13:N6:301:CYC:CHA	2.24	0.50
3:X6:73:ASN:HD22	3:X6:123:THR:CB	2.24	0.50
6:A7:153:PHE:N	6:A7:153:PHE:CD2	2.79	0.50
3:K7:40:ASP:CG	3:K7:149:ILE:HD13	2.36	0.50
3:M7:145:ASP:O	13:M7:201:CYC:CBB	2.60	0.50
7:H8:65:VAL:CG1	13:H8:1001:CYC:OC	2.60	0.50
7:J8:9:VAL:CG1	10:19:540:PHE:CE2	2.78	0.50
7:J8:65:VAL:CG1	13:J8:1001:CYC:OC	2.60	0.50
7:O8:65:VAL:CG1	13:O8:1001:CYC:OC	2.60	0.50
7:S8:65:VAL:CG1	13:S8:1001:CYC:OC	2.60	0.50
8:h8:111:ASN:HD21	9:i8:51:ILE:H	1.60	0.50
7:l8:65:VAL:CG1	13:l8:1001:CYC:OC	2.60	0.50
8:m8:78:ARG:HH11	10:09:948:GLY:N	2.02	0.50
7:n8:17:TYR:CD1	8:o8:46:SER:HB2	2.47	0.50
10:19:706:ARG:NH1	8:r9:69:PRO:O	2.44	0.50
7:N9:126:VAL:HG22	13:N9:1001:CYC:H3C	1.92	0.50
3:EA:149:ILE:CD1	3:EA:149:ILE:H	2.25	0.50
3:VA:38:ARG:NH1	3:VA:98:ILE:O	2.45	0.50
3:ZA:147:ASN:OD1	3:ZA:147:ASN:N	2.44	0.50
1:A1:60:LEU:N	1:A1:60:LEU:CD1	2.73	0.50
1:A1:195:ILE:HG23	7:c8:80:THR:CB	2.37	0.50
2:D1:150:GLU:OE1	2:D1:154:TYR:HE2	1.95	0.50
3:E1:152:GLY:N	13:E1:202:CYC:HMD2	2.27	0.50
13:E1:202:CYC:CMD	13:E1:202:CYC:HC	2.24	0.50
2:J1:66:TYR:O	2:J1:70:THR:OG1	2.30	0.50
13:M1:202:CYC:CMD	13:M1:202:CYC:HC	2.24	0.50
2:O1:66:TYR:O	2:O1:70:THR:OG1	2.30	0.50
2:Q1:31:ARG:NH2	2:Q1:101:VAL:O	2.44	0.50
13:T1:201:CYC:NB	13:T1:201:CYC:CMA	2.72	0.50
5:A2:215:ASP:OD2	8:c9:68:ARG:NH2	2.45	0.50
3:C2:152:GLY:CA	13:C2:202:CYC:HMD1	2.17	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C2:202:CYC:CBD	13:C2:202:CYC:CHA	2.85	0.50
2:J2:64:PHE:O	2:J2:67:THR:OG1	2.29	0.50
3:K2:43:ASN:CG	13:K2:202:CYC:HBC1	2.37	0.50
13:K2:202:CYC:CMD	13:K2:202:CYC:HC	2.24	0.50
13:V2:201:CYC:HC	13:V2:201:CYC:HMD2	1.77	0.50
2:Y2:123:PHE:CD2	13:Y2:201:CYC:CAA	2.91	0.50
3:Z2:111:LEU:HD22	3:Z2:171:ALA:HB3	1.94	0.50
2:D3:29:ARG:CB	13:E3:202:CYC:HBB2	2.40	0.50
13:E3:202:CYC:CMD	13:E3:202:CYC:HC	2.24	0.50
2:D4:31:ARG:NH2	2:D4:101:VAL:O	2.44	0.50
2:J4:31:ARG:NH2	2:J4:101:VAL:O	2.44	0.50
2:Q4:130:TYR:HB2	2:Q4:162:LEU:HD21	1.92	0.50
3:R4:78:ARG:HH22	3:R4:79:ARG:HD3	1.75	0.50
2:S4:31:ARG:NH2	2:S4:101:VAL:O	2.44	0.50
3:T4:76:THR:CG2	3:T4:79:ARG:CG	2.89	0.50
3:T4:76:THR:CG2	3:T4:79:ARG:CD	2.85	0.50
3:X4:87:MET:SD	13:X4:201:CYC:CBC	3.00	0.50
5:A5:228:ASN:O	7:q9:66:VAL:HG21	2.11	0.50
5:A5:231:ASN:OD1	7:A9:67:SER:CA	2.58	0.50
3:C5:70:PRO:CB	3:E5:17:GLY:HA3	2.42	0.50
13:C5:201:CYC:CMD	13:C5:201:CYC:HC	2.24	0.50
3:E5:38:ARG:HD3	3:E5:157:LEU:HD12	1.93	0.50
3:E5:38:ARG:NH1	3:E5:98:ILE:O	2.45	0.50
2:H5:6:ILE:HG13	2:H5:31:ARG:CD	2.42	0.50
3:K5:38:ARG:NH1	3:K5:98:ILE:O	2.45	0.50
3:M5:38:ARG:NH1	3:M5:98:ILE:O	2.45	0.50
3:R5:146:PRO:HB3	3:R5:151:LYS:HZ2	1.76	0.50
3:T5:114:LEU:HD22	13:T5:201:CYC:HBC1	1.92	0.50
2:U5:61:TYR:HH	2:U5:85:CYS:HG	1.56	0.50
5:A6:128:ALA:O	5:A6:131:ILE:HG22	2.12	0.50
5:A6:195:ARG:NH2	3:G6:66:GLN:HE22	2.10	0.50
5:A6:195:ARG:HH11	3:G6:124:PRO:HG3	1.77	0.50
3:G6:152:GLY:CA	13:G6:201:CYC:CMD	2.89	0.50
2:H6:64:PHE:O	2:H6:67:THR:OG1	2.29	0.50
3:K6:43:ASN:CG	13:K6:202:CYC:HBC1	2.37	0.50
2:F7:3:LYS:HD3	2:L7:23:THR:HG21	1.92	0.50
7:H8:20:PRO:HB2	7:X9:151:SER:HG	1.67	0.50
7:S8:125:ALA:CB	13:S8:1001:CYC:HMC2	2.33	0.50
7:V8:65:VAL:CG1	13:V8:1001:CYC:OC	2.60	0.50
7:V8:95:GLY:HA3	7:V8:104:ILE:HD11	1.92	0.50
8:W8:77:ARG:CZ	13:W8:1001:CYC:O1D	2.56	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:j8:23:LEU:HD22	8:k8:39:VAL:HG13	1.93	0.50
13:k8:1001:CYC:HBA1	10:09:1059:ASN:HD21	1.73	0.50
7:n8:65:VAL:CG1	13:n8:1001:CYC:OC	2.60	0.50
8:o8:113:LEU:HD11	13:o8:1001:CYC:C3B	2.40	0.50
8:s8:78:ARG:NH1	10:19:947:VAL:N	2.59	0.50
10:19:174:VAL:HG21	8:h9:28:LEU:HD13	1.93	0.50
10:19:986:PHE:CE2	13:19:1201:CYC:C3A	2.95	0.50
7:C9:46:ASN:HD22	7:C9:140:LEU:HD21	1.77	0.50
7:C9:65:VAL:HB	7:C9:72:ALA:HB3	1.93	0.50
8:H9:84:ARG:NH1	13:H9:1001:CYC:CGA	2.73	0.50
7:Z9:46:ASN:HD22	7:Z9:140:LEU:HD21	1.77	0.50
8:a9:22:THR:HA	8:a9:25:LEU:HD12	1.92	0.50
8:c9:135:LYS:NZ	8:c9:155:ASP:OD2	2.43	0.50
7:d9:46:ASN:HD22	7:d9:140:LEU:HD21	1.77	0.50
7:k9:94:TYR:CE1	8:l9:20:LEU:HG	2.46	0.50
7:o9:46:ASN:HD22	7:o9:140:LEU:HD21	1.77	0.50
7:o9:126:VAL:HG22	13:o9:1001:CYC:H3C	1.92	0.50
8:t9:22:THR:HA	8:t9:25:LEU:HD12	1.92	0.50
3:EA:80:MET:HB3	2:FA:119:ILE:HD11	1.94	0.50
2:OA:31:ARG:CZ	2:OA:31:ARG:HB2	2.41	0.50
13:VA:202:CYC:HC	13:VA:202:CYC:HMD2	1.77	0.50
13:ZA:202:CYC:HC	13:ZA:202:CYC:HMD2	1.77	0.50
3:C1:152:GLY:N	13:C1:302:CYC:CMD	2.70	0.50
13:E1:202:CYC:HMD2	13:E1:202:CYC:HC	1.77	0.50
3:M1:2:THR:HA	3:M1:105:VAL:HG23	1.92	0.50
13:M1:202:CYC:CGA	13:M1:202:CYC:CMA	2.86	0.50
2:O1:130:TYR:HB2	2:O1:162:LEU:HD21	1.92	0.50
3:P1:88:GLU:O	3:P1:92:ARG:N	2.43	0.50
2:Q1:138:LYS:O	2:Q1:141:HIS:CD2	2.64	0.50
2:Q1:150:GLU:OE2	2:U1:22:ASN:ND2	2.45	0.50
2:U1:66:TYR:O	2:U1:70:THR:OG1	2.30	0.50
3:V1:88:GLU:O	3:V1:92:ARG:N	2.43	0.50
13:C2:202:CYC:HAB2	2:J2:34:ARG:NH1	2.26	0.50
2:D2:34:ARG:HH22	13:I2:202:CYC:HAC2	1.77	0.50
3:G2:71:GLY:HA3	7:d9:73:TYR:OH	2.11	0.50
13:G2:201:CYC:CMD	13:G2:201:CYC:HC	2.24	0.50
2:H2:88:ASP:OD1	13:H2:1001:CYC:CHB	2.58	0.50
13:K2:202:CYC:NB	13:K2:202:CYC:CMA	2.73	0.50
2:L2:74:GLN:NE2	2:L2:75:PHE:CE2	2.80	0.50
3:P2:43:ASN:O	3:P2:47:SER:OG	2.27	0.50
13:T2:201:CYC:CMD	13:T2:201:CYC:HC	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:T2:201:CYC:HAB1	2:Y2:34:ARG:HH12	1.69	0.50
2:D3:34:ARG:HH12	2:D3:146:GLN:CD	2.10	0.50
2:L3:74:GLN:NE2	2:L3:75:PHE:CE2	2.80	0.50
2:L3:98:TYR:OH	3:M3:18:GLU:O	2.28	0.50
1:A4:42:LEU:HD23	1:A4:45:LEU:HD23	1.93	0.50
1:A4:198:PHE:CD1	7:V8:82:LEU:HB2	2.45	0.50
3:C4:20:LEU:HD22	3:C4:24:GLN:OE1	2.11	0.50
2:D4:66:TYR:O	2:D4:70:THR:OG1	2.30	0.50
13:G4:201:CYC:HC	13:G4:201:CYC:HMD2	1.77	0.50
2:L4:31:ARG:NH2	2:L4:101:VAL:O	2.44	0.50
4:N4:168:ILE:HG13	4:N4:172:TYR:HE1	1.76	0.50
2:Q4:31:ARG:NH2	2:Q4:101:VAL:O	2.44	0.50
3:T4:36:ASN:HD21	13:T4:201:CYC:HMA3	1.77	0.50
3:V4:79:ARG:O	13:V4:202:CYC:HMA1	2.12	0.50
13:G5:201:CYC:CMD	13:G5:201:CYC:HC	2.24	0.50
4:N5:96:ILE:HD13	4:N5:114:VAL:HG22	1.92	0.50
2:O5:6:ILE:CG1	2:O5:31:ARG:HD3	2.41	0.50
13:P5:202:CYC:HC	13:P5:202:CYC:HMD2	1.77	0.50
3:R5:149:ILE:N	3:R5:149:ILE:CD1	2.73	0.50
2:B6:64:PHE:O	2:B6:67:THR:OG1	2.29	0.50
13:C6:202:CYC:HMD2	13:C6:202:CYC:HC	1.77	0.50
2:H6:31:ARG:HD3	2:H6:31:ARG:C	2.37	0.50
3:T6:76:THR:CG2	3:T6:79:ARG:CZ	2.89	0.50
13:V6:201:CYC:HC	13:V6:201:CYC:HMD2	1.77	0.50
3:X6:83:CYS:CB	13:X6:201:CYC:C4C	2.89	0.50
3:E7:111:LEU:HD22	3:E7:171:ALA:HB3	1.94	0.50
8:D8:11:ASN:CG	10:09:537:SER:C	2.78	0.50
8:M8:77:ARG:CZ	13:M8:1001:CYC:O1D	2.56	0.50
7:j8:95:GLY:HA3	7:j8:104:ILE:HD11	1.92	0.50
9:49:3:ARG:HA	9:49:58:THR:O	2.12	0.50
7:E9:44:THR:HG23	8:F9:19:TYR:CB	2.42	0.50
7:K9:16:ARG:O	8:L9:91:ARG:HD2	2.12	0.50
7:P9:46:ASN:HD22	7:P9:140:LEU:HD21	1.77	0.50
7:X9:46:ASN:HD22	7:X9:140:LEU:HD21	1.77	0.50
7:Z9:126:VAL:HG22	13:Z9:1001:CYC:H3C	1.92	0.50
11:g9:51:LEU:HD22	11:g9:137:LEU:HB3	1.94	0.50
7:i9:46:ASN:HD22	7:i9:140:LEU:HD21	1.77	0.50
8:p9:135:LYS:NZ	8:p9:155:ASP:OD2	2.43	0.50
5:AA:108:VAL:HG11	5:AA:126:GLN:HA	1.93	0.50
13:CA:201:CYC:CMD	13:CA:201:CYC:HC	2.24	0.50
2:FA:34:ARG:CZ	13:MA:1003:CYC:H2C	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GA:38:ARG:NH1	3:GA:98:ILE:O	2.45	0.50
13:KA:201:CYC:HC	13:KA:201:CYC:HMD2	1.77	0.50
3:RA:149:ILE:CD1	3:RA:149:ILE:H	2.25	0.50
13:RA:201:CYC:CMD	13:RA:201:CYC:HC	2.24	0.50
2:B1:31:ARG:NH2	2:B1:101:VAL:O	2.44	0.50
13:I1:202:CYC:NB	13:I1:202:CYC:CMA	2.72	0.50
4:N1:62:LEU:HD11	4:N1:72:PHE:CD1	2.46	0.50
13:P1:202:CYC:NB	13:P1:202:CYC:CMA	2.72	0.50
2:S1:31:ARG:NH2	2:S1:101:VAL:O	2.44	0.50
2:S1:141:HIS:ND1	2:S1:143:LEU:CB	2.74	0.50
3:T1:2:THR:HA	3:T1:105:VAL:HG23	1.92	0.50
13:C2:202:CYC:HMD2	13:C2:202:CYC:HC	1.77	0.50
2:D2:61:TYR:HH	2:D2:85:CYS:HG	1.54	0.50
13:G2:201:CYC:NB	13:G2:201:CYC:CMA	2.73	0.50
13:I2:202:CYC:HMD2	13:I2:202:CYC:HC	1.77	0.50
2:Q2:26:GLN:NE2	2:U2:103:GLY:O	2.44	0.50
2:Q2:64:PHE:O	2:Q2:67:THR:OG1	2.29	0.50
2:U2:88:ASP:OD1	13:U2:202:CYC:HHB	2.12	0.50
3:X2:83:CYS:CB	13:X2:201:CYC:C4C	2.90	0.50
13:C3:201:CYC:CMD	13:C3:201:CYC:HC	2.24	0.50
13:H3:1001:CYC:O1D	3:M3:58:ARG:NH1	2.44	0.50
13:I3:202:CYC:HMD2	13:I3:202:CYC:HC	1.77	0.50
13:E4:202:CYC:HC	13:E4:202:CYC:HMD2	1.77	0.50
2:J4:29:ARG:HH21	13:K4:202:CYC:C1C	2.23	0.50
2:L4:66:TYR:O	2:L4:70:THR:OG1	2.30	0.50
13:M4:201:CYC:HHA	13:M4:201:CYC:CBA	2.26	0.50
2:S4:66:TYR:O	2:S4:70:THR:OG1	2.30	0.50
3:T4:88:GLU:O	3:T4:92:ARG:N	2.43	0.50
13:Z4:201:CYC:HC	13:Z4:201:CYC:HMD2	1.77	0.50
13:C5:201:CYC:HMD2	13:C5:201:CYC:HC	1.77	0.50
3:I5:38:ARG:NH1	3:I5:98:ILE:O	2.44	0.50
2:O5:33:GLU:HB3	2:W5:29:ARG:HH22	1.75	0.50
3:T5:149:ILE:CD1	3:T5:149:ILE:H	2.25	0.50
3:V5:155:SER:HA	3:V5:158:ILE:HB	1.92	0.50
2:D6:34:ARG:HH22	13:I6:202:CYC:HAC2	1.77	0.50
2:D6:64:PHE:O	2:D6:67:THR:OG1	2.29	0.50
13:E6:202:CYC:HMD2	13:E6:202:CYC:HC	1.77	0.50
13:E6:202:CYC:CMD	13:E6:202:CYC:HC	2.24	0.50
2:L6:34:ARG:HH21	2:L6:150:GLU:HG2	1.77	0.50
3:P6:150:THR:OG1	13:W6:201:CYC:HAA2	2.12	0.50
3:R6:111:LEU:HD22	3:R6:171:ALA:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S6:5:PRO:HB2	2:S6:31:ARG:HG3	1.94	0.50
2:S6:85:CYS:HA	13:S6:1001:CYC:HAC2	1.94	0.50
6:A7:15:GLN:OE1	6:A7:116:ARG:HB3	2.11	0.50
6:A7:129:ILE:HD13	3:C7:85:ARG:HH11	1.37	0.50
13:C7:201:CYC:CMD	13:C7:201:CYC:HC	2.24	0.50
7:H8:64:ASP:CG	7:Z9:70:GLY:N	2.70	0.50
8:I8:47:ALA:HA	7:X9:154:ASP:OD2	2.12	0.50
7:O8:69:GLY:HA3	7:w9:63:PRO:HD2	1.93	0.50
7:Z8:56:ASP:CG	7:I9:74:GLY:CA	2.78	0.50
7:e8:20:PRO:HG3	7:n8:155:TYR:HB2	1.93	0.50
7:E9:65:VAL:HB	7:E9:72:ALA:HB3	1.93	0.50
7:T9:65:VAL:HB	7:T9:72:ALA:HB3	1.93	0.50
8:p9:84:ARG:NH1	13:p9:1001:CYC:CGA	2.73	0.50
13:EA:201:CYC:HMD2	13:EA:201:CYC:HC	1.77	0.50
13:MA:1003:CYC:HC	13:MA:1003:CYC:HMD2	1.77	0.50
3:TA:149:ILE:CD1	3:TA:149:ILE:H	2.25	0.50
3:VA:121:LEU:HD23	13:VA:201:CYC:CGA	2.41	0.50
3:ZA:38:ARG:NH1	3:ZA:98:ILE:O	2.45	0.50
1:A1:42:LEU:HD23	1:A1:45:LEU:HD23	1.93	0.50
1:A1:104:ARG:HH22	1:A1:175:PRO:CG	2.22	0.50
3:G1:79:ARG:HA	13:G1:202:CYC:HMD1	1.93	0.50
13:G1:201:CYC:CMD	13:G1:201:CYC:HC	2.24	0.50
2:O1:31:ARG:NH2	2:O1:101:VAL:O	2.44	0.50
3:X1:123:THR:CG2	3:X1:124:PRO:HD2	2.42	0.50
2:Y1:130:TYR:HB2	2:Y1:162:LEU:HD21	1.92	0.50
2:B2:119:ILE:HD11	13:B2:1001:CYC:C3A	2.35	0.50
3:K2:111:LEU:HD22	3:K2:171:ALA:HB3	1.94	0.50
2:L2:74:GLN:HG3	2:L2:75:PHE:CD2	2.46	0.50
13:M2:201:CYC:CGA	13:M2:201:CYC:CMA	2.86	0.50
4:N2:237:TYR:CE1	4:N2:285:SER:HB2	2.47	0.50
2:O2:34:ARG:CZ	13:W2:203:CYC:HBC2	2.41	0.50
2:U2:73:PRO:O	13:U2:202:CYC:HBD2	2.11	0.50
2:Y2:88:ASP:CG	13:Y2:201:CYC:CHB	2.83	0.50
6:A3:14:ASN:HB3	13:E3:201:CYC:HAA1	1.93	0.50
13:C3:201:CYC:HMD2	13:C3:201:CYC:HC	1.77	0.50
2:D3:34:ARG:HH22	13:I3:202:CYC:HAC2	1.77	0.50
2:B4:66:TYR:O	2:B4:70:THR:OG1	2.30	0.50
3:G4:79:ARG:HA	13:G4:202:CYC:HMD1	1.93	0.50
13:K4:202:CYC:HC	13:K4:202:CYC:HMD2	1.77	0.50
3:M4:65:PRO:O	3:M4:68:ILE:HG22	2.12	0.50
3:V4:39:LEU:CD1	13:V4:201:CYC:OC	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W4:31:ARG:NH2	2:W4:101:VAL:O	2.44	0.50
13:X4:202:CYC:HC	13:X4:202:CYC:HMD2	1.77	0.50
3:Z4:88:GLU:O	3:Z4:92:ARG:N	2.43	0.50
2:D5:33:GLU:OE1	2:D5:33:GLU:HA	2.12	0.50
13:M5:1003:CYC:HC	13:M5:1003:CYC:HMD2	1.77	0.50
3:P5:38:ARG:NH1	3:P5:98:ILE:O	2.45	0.50
13:T5:202:CYC:HBD1	13:T5:202:CYC:CHA	2.28	0.50
2:W5:31:ARG:HH11	2:W5:103:GLY:CA	2.10	0.50
5:A6:131:ILE:HB	13:C6:201:CYC:O1A	2.11	0.50
5:A6:212:ARG:NE	8:M9:68:ARG:NH1	2.60	0.50
3:K6:41:VAL:O	3:K6:45:ILE:HG12	2.11	0.50
2:L6:74:GLN:HG3	2:L6:75:PHE:CD2	2.47	0.50
3:M6:145:ASP:O	13:M6:201:CYC:CBB	2.60	0.50
4:N6:63:ARG:CG	13:V6:202:CYC:O2D	2.58	0.50
13:T6:201:CYC:HC	13:T6:201:CYC:HMD2	1.77	0.50
2:U6:88:ASP:OD1	13:U6:202:CYC:HHB	2.12	0.50
13:U6:201:CYC:HC	13:U6:201:CYC:HMD2	1.77	0.50
3:X6:111:LEU:HD22	3:X6:171:ALA:HB3	1.94	0.50
6:A7:113:PHE:O	6:A7:153:PHE:CZ	2.65	0.50
3:G7:111:LEU:HD22	3:G7:171:ALA:HB3	1.94	0.50
13:I7:202:CYC:HMD2	13:I7:202:CYC:HC	1.77	0.50
4:N7:237:TYR:CE1	4:N7:285:SER:HB2	2.47	0.50
7:E8:95:GLY:HA3	7:E8:104:ILE:HD11	1.92	0.50
13:W8:1001:CYC:CGA	10:19:1001:SER:HG	2.18	0.50
7:c8:65:VAL:CG1	13:c8:1001:CYC:OC	2.60	0.50
8:k8:77:ARG:CZ	13:k8:1001:CYC:O1D	2.56	0.50
7:r8:65:VAL:CG1	13:r8:1001:CYC:OC	2.60	0.50
7:t8:65:VAL:CG1	13:t8:1001:CYC:OC	2.60	0.50
10:09:1047:ARG:HG2	10:09:1101:ASN:HD21	1.75	0.50
9:49:5:PHE:O	9:49:31:LEU:HA	2.12	0.50
7:A9:46:ASN:HD22	7:A9:140:LEU:HD21	1.77	0.50
7:E9:46:ASN:HD22	7:E9:140:LEU:HD21	1.77	0.50
8:L9:55:GLU:OE2	7:f9:49:ARG:NH2	2.45	0.50
11:g9:114:ARG:NH1	11:g9:166:GLU:OE2	2.45	0.50
7:k9:65:VAL:HB	7:k9:72:ALA:HB3	1.93	0.50
8:n9:22:THR:HA	8:n9:25:LEU:HD12	1.92	0.50
7:w9:46:ASN:HD22	7:w9:140:LEU:HD21	1.77	0.50
2:BA:34:ARG:NH1	2:BA:150:GLU:OE2	2.27	0.50
13:CA:201:CYC:HMD2	13:CA:201:CYC:HC	1.77	0.50
2:DA:33:GLU:HA	2:DA:33:GLU:OE1	2.12	0.50
3:EA:154:CYS:HB2	13:EA:201:CYC:CBC	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KA:68:ILE:HD13	13:LA:201:CYC:O2A	2.11	0.50
13:RA:201:CYC:CAB	2:UA:34:ARG:NH1	2.75	0.50
1:A1:131:ILE:CD1	1:A1:139:PHE:CG	2.95	0.49
2:F1:123:PHE:CE2	13:F1:1001:CYC:CAA	2.95	0.49
13:K1:202:CYC:CMD	13:K1:202:CYC:HC	2.24	0.49
2:L1:31:ARG:NH2	2:L1:101:VAL:O	2.44	0.49
3:M1:76:THR:HG22	3:M1:79:ARG:CD	2.42	0.49
2:W1:31:ARG:NH2	2:W1:101:VAL:O	2.44	0.49
2:W1:66:TYR:O	2:W1:70:THR:OG1	2.30	0.49
5:A2:60:GLU:HA	5:A2:62:LEU:CD1	2.42	0.49
5:A2:195:ARG:HH11	3:G2:124:PRO:HG3	1.77	0.49
3:K2:41:VAL:O	3:K2:45:ILE:HG12	2.11	0.49
13:K2:201:CYC:CMD	13:K2:201:CYC:HC	2.24	0.49
13:K2:202:CYC:HC	13:K2:202:CYC:HMD2	1.77	0.49
3:M2:145:ASP:O	13:M2:201:CYC:CBB	2.60	0.49
4:N2:80:GLU:O	4:N2:84:LYS:N	2.44	0.49
2:Q2:88:ASP:OD2	13:Q2:201:CYC:NA	2.46	0.49
2:U2:73:PRO:CB	3:Z2:58:ARG:HH12	2.22	0.49
3:Z2:38:ARG:HH22	3:Z2:101:GLY:HA3	1.76	0.49
13:Z2:201:CYC:HC	13:Z2:201:CYC:HMD2	1.77	0.49
2:D3:2:VAL:HG22	3:E3:7:THR:HG21	1.93	0.49
3:G3:111:LEU:HD22	3:G3:171:ALA:HB3	1.94	0.49
3:G3:152:GLY:CA	13:G3:202:CYC:CMD	2.89	0.49
13:G3:202:CYC:NB	13:G3:202:CYC:CMA	2.73	0.49
3:I3:41:VAL:HG23	13:I3:202:CYC:HMB2	1.86	0.49
2:J3:64:PHE:O	2:J3:67:THR:OG1	2.29	0.49
13:K3:202:CYC:HC	13:K3:202:CYC:HMD2	1.77	0.49
13:C4:302:CYC:CMD	13:C4:302:CYC:HC	2.24	0.49
3:M4:144:ASN:O	13:M4:202:CYC:HBB1	2.12	0.49
4:N4:60:SER:HG	13:V4:202:CYC:HC	1.60	0.49
13:P4:202:CYC:HC	13:P4:202:CYC:HMD2	1.77	0.49
3:C5:38:ARG:NH1	3:C5:98:ILE:O	2.44	0.49
2:J5:32:TYR:CE1	3:K5:35:GLY:HA2	2.42	0.49
2:O5:31:ARG:CZ	2:O5:31:ARG:HB2	2.41	0.49
13:V5:202:CYC:NB	13:V5:202:CYC:CMA	2.72	0.49
2:D6:23:THR:HG23	2:D6:24:GLU:CD	2.36	0.49
3:G6:154:CYS:HG	13:G6:201:CYC:H2C	1.72	0.49
2:L6:74:GLN:NE2	2:L6:75:PHE:CE2	2.80	0.49
2:Q6:31:ARG:HH22	2:Q6:35:ALA:HB1	1.61	0.49
13:U6:201:CYC:CMD	13:U6:201:CYC:HC	2.24	0.49
13:W6:201:CYC:HMD2	13:W6:201:CYC:HC	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:X6:202:CYC:HMD2	13:X6:202:CYC:HC	1.77	0.49
3:Z6:54:THR:O	3:Z6:58:ARG:HG2	2.11	0.49
3:C7:152:GLY:CA	13:C7:201:CYC:HMD1	2.17	0.49
13:C7:201:CYC:HAB2	2:J7:34:ARG:NH1	2.26	0.49
3:G7:152:GLY:CA	13:G7:202:CYC:HMD1	2.38	0.49
13:M7:201:CYC:HMD2	13:M7:201:CYC:HC	1.77	0.49
7:C8:9:VAL:CB	10:09:540:PHE:HE1	2.25	0.49
7:Z8:65:VAL:CG1	13:Z8:1001:CYC:OC	2.60	0.49
8:h8:77:ARG:CZ	13:h8:1001:CYC:O1D	2.56	0.49
8:m8:144:ALA:HB1	8:e9:29:LYS:HZ3	1.66	0.49
9:29:5:PHE:O	9:29:31:LEU:HA	2.12	0.49
7:E9:25:ARG:HD3	7:q9:25:ARG:CZ	2.42	0.49
7:N9:65:VAL:HB	7:N9:72:ALA:HB3	1.93	0.49
8:O9:84:ARG:NH1	13:O9:1001:CYC:CGA	2.73	0.49
7:T9:46:ASN:HD22	7:T9:140:LEU:HD21	1.77	0.49
7:b9:65:VAL:HB	7:b9:72:ALA:HB3	1.93	0.49
7:k9:107:ILE:HD13	8:l9:14:ASP:CG	2.37	0.49
13:m9:201:CYC:HC	13:m9:201:CYC:HMD1	1.77	0.49
7:u9:65:VAL:HB	7:u9:72:ALA:HB3	1.93	0.49
5:AA:19:SER:HB2	5:AA:165:LYS:HD2	1.92	0.49
5:AA:59:HIS:HA	3:GA:85:ARG:HG3	1.93	0.49
2:OA:6:ILE:CG1	2:OA:31:ARG:HD3	2.41	0.49
2:SA:32:TYR:CE1	3:TA:35:GLY:CA	2.76	0.49
3:VA:87:MET:HE3	13:VA:201:CYC:CMB	2.39	0.49
2:YA:34:ARG:HE	2:YA:34:ARG:CA	2.23	0.49
1:A1:107:GLU:HG3	1:A1:118:PRO:HG3	1.93	0.49
2:D1:66:TYR:O	2:D1:70:THR:OG1	2.30	0.49
2:L1:66:TYR:O	2:L1:70:THR:OG1	2.30	0.49
13:X1:202:CYC:HC	13:X1:202:CYC:HMD2	1.77	0.49
3:Z1:150:THR:OG1	13:Z1:201:CYC:C2A	2.60	0.49
2:D2:64:PHE:O	2:D2:67:THR:OG1	2.29	0.49
2:H2:64:PHE:O	2:H2:67:THR:OG1	2.29	0.49
3:T2:111:LEU:HD22	3:T2:171:ALA:HB3	1.94	0.49
2:Y2:31:ARG:CD	2:Y2:31:ARG:C	2.86	0.49
13:C3:201:CYC:HAB2	2:J3:34:ARG:NH1	2.26	0.49
3:I3:111:LEU:HD22	3:I3:171:ALA:HB3	1.94	0.49
13:K3:201:CYC:HMD2	13:K3:201:CYC:HC	1.77	0.49
2:L3:34:ARG:HH21	2:L3:150:GLU:HG2	1.77	0.49
3:M3:111:LEU:HD22	3:M3:171:ALA:HB3	1.94	0.49
1:A4:172:LEU:CD2	1:A4:172:LEU:C	2.85	0.49
2:Q4:138:LYS:O	2:Q4:141:HIS:CD2	2.64	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S4:85:CYS:CB	13:S4:1001:CYC:HAC2	2.42	0.49
13:T4:201:CYC:CMD	13:T4:201:CYC:HC	2.24	0.49
13:A5:301:CYC:CBC	3:C5:87:MET:HE1	2.35	0.49
3:E5:149:ILE:CD1	3:E5:149:ILE:H	2.25	0.49
4:N5:22:GLU:O	4:N5:22:GLU:HG3	2.12	0.49
3:T5:144:ASN:O	13:T5:202:CYC:CMC	2.60	0.49
3:T5:150:THR:OG1	13:T5:202:CYC:HAD1	2.12	0.49
13:T5:202:CYC:CMD	13:T5:202:CYC:HC	2.25	0.49
2:Y5:34:ARG:HE	2:Y5:34:ARG:CA	2.23	0.49
2:L6:64:PHE:O	2:L6:67:THR:OG1	2.29	0.49
2:Q6:31:ARG:HH11	2:Q6:102:ALA:C	2.20	0.49
2:W6:31:ARG:NH1	2:W6:102:ALA:C	2.70	0.49
3:X6:60:LEU:HD12	3:X6:87:MET:HE1	1.91	0.49
13:X6:202:CYC:CMD	13:X6:202:CYC:HC	2.24	0.49
6:A7:14:ASN:HB3	13:E7:201:CYC:HAA1	1.93	0.49
6:A7:144:LEU:C	6:A7:144:LEU:CD1	2.85	0.49
3:C7:76:THR:OG1	3:C7:77:ASN:N	2.39	0.49
2:H7:61:TYR:HH	2:H7:85:CYS:HG	1.55	0.49
7:C8:70:GLY:N	7:I9:64:ASP:OD1	2.45	0.49
7:L8:65:VAL:CG1	13:L8:1001:CYC:OC	2.60	0.49
7:Q8:63:PRO:CB	10:19:1126:THR:HG21	2.24	0.49
7:g8:65:VAL:CG1	13:g8:1001:CYC:OC	2.60	0.49
8:u8:71:GLY:C	10:19:1123:SER:OG	2.55	0.49
10:09:187:GLY:HA3	10:09:262:ILE:HD11	1.94	0.49
10:09:400:THR:CG2	9:29:24:GLN:OE1	2.59	0.49
10:19:579:ILE:HG23	10:19:583:ASP:HB3	1.94	0.49
10:19:954:ARG:HH22	10:19:955:LYS:HB3	1.75	0.49
7:K9:46:ASN:HD22	7:K9:140:LEU:HD21	1.77	0.49
7:P9:65:VAL:HB	7:P9:72:ALA:HB3	1.93	0.49
7:X9:107:ILE:HG23	8:c9:75:THR:HG23	1.94	0.49
7:b9:46:ASN:HD22	7:b9:140:LEU:HD21	1.77	0.49
7:q9:46:ASN:HD22	7:q9:140:LEU:HD21	1.77	0.49
7:w9:126:VAL:HG22	13:w9:1001:CYC:H3C	1.92	0.49
3:EA:38:ARG:NH1	3:EA:98:ILE:O	2.45	0.49
3:MA:38:ARG:NH1	3:MA:98:ILE:O	2.45	0.49
3:TA:128:VAL:HG22	13:TA:201:CYC:C2B	2.42	0.49
13:C1:302:CYC:CMD	13:C1:302:CYC:HC	2.24	0.49
13:G1:201:CYC:CGA	13:G1:201:CYC:CMA	2.86	0.49
3:M1:144:ASN:O	13:M1:202:CYC:HBB1	2.12	0.49
4:N1:68:THR:HG23	4:N1:71:GLU:H	1.78	0.49
2:Q1:66:TYR:O	2:Q1:70:THR:OG1	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R1:88:GLU:O	3:R1:92:ARG:N	2.43	0.49
2:S1:85:CYS:CB	13:S1:1001:CYC:HAC2	2.42	0.49
3:T1:68:ILE:HG13	3:T1:69:ALA:N	2.26	0.49
2:D2:29:ARG:CB	13:E2:202:CYC:HBB2	2.41	0.49
13:K2:201:CYC:HC	13:K2:201:CYC:HMD2	1.77	0.49
3:P2:68:ILE:CD1	13:Q2:201:CYC:O2A	2.59	0.49
13:U2:201:CYC:HC	13:U2:201:CYC:HMD2	1.77	0.49
3:X2:73:ASN:HD22	3:X2:123:THR:CB	2.24	0.49
2:H3:32:TYR:CE2	3:I3:35:GLY:HA3	2.48	0.49
2:L3:31:ARG:C	2:L3:31:ARG:CD	2.85	0.49
4:N3:237:TYR:CE1	4:N3:285:SER:HB2	2.47	0.49
1:A4:131:ILE:CD1	1:A4:139:PHE:CG	2.95	0.49
1:A4:168:ARG:NH2	1:A4:172:LEU:CD2	2.64	0.49
2:D4:150:GLU:OE1	2:D4:154:TYR:HE2	1.95	0.49
3:E4:39:LEU:HD13	13:E4:202:CYC:HBB2	1.93	0.49
2:H4:66:TYR:O	2:H4:70:THR:OG1	2.30	0.49
4:N4:23:LEU:O	4:N4:24:ARG:C	2.53	0.49
4:N4:68:THR:OG1	4:N4:145:ASP:O	2.29	0.49
2:U4:31:ARG:NH2	2:U4:101:VAL:O	2.44	0.49
2:Y4:66:TYR:O	2:Y4:70:THR:OG1	2.30	0.49
4:N5:206:SER:O	3:P5:113:GLY:N	2.44	0.49
3:V5:38:ARG:NH1	3:V5:98:ILE:O	2.45	0.49
13:Z5:202:CYC:HC	13:Z5:202:CYC:HMD2	1.77	0.49
5:A6:234:GLN:HE21	7:C8:73:TYR:HE1	1.51	0.49
13:G6:201:CYC:HMD2	13:G6:201:CYC:HC	1.77	0.49
13:K6:201:CYC:CMD	13:K6:201:CYC:HC	2.24	0.49
2:L6:32:TYR:HE2	3:M6:35:GLY:CA	2.25	0.49
4:N6:6:ALA:HB2	3:T6:121:LEU:HA	1.95	0.49
3:X6:58:ARG:NH1	2:Y6:73:PRO:CB	2.74	0.49
3:X6:58:ARG:NH1	2:Y6:73:PRO:HB2	2.25	0.49
2:Y6:119:ILE:CD1	13:Y6:201:CYC:HMA3	2.35	0.49
13:Z6:201:CYC:CMD	13:Z6:201:CYC:HC	2.24	0.49
13:Z6:201:CYC:HC	13:Z6:201:CYC:HMD2	1.77	0.49
13:C7:201:CYC:HMD2	13:C7:201:CYC:HC	1.77	0.49
2:D7:85:CYS:HA	13:D7:1001:CYC:CAC	2.40	0.49
13:M7:201:CYC:HBA2	13:M7:201:CYC:HMA3	1.95	0.49
8:D8:11:ASN:HD21	10:09:536:ALA:HB1	1.75	0.49
7:E8:65:VAL:CG1	13:E8:1001:CYC:OC	2.60	0.49
8:R8:77:ARG:CZ	13:R8:1001:CYC:O1D	2.56	0.49
13:s8:1001:CYC:O2D	10:19:947:VAL:O	2.31	0.49
10:19:1011:ARG:HD2	10:19:1086:GLU:HG3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:29:3:ARG:HA	9:29:58:THR:O	2.12	0.49
8:U9:84:ARG:CG	8:U9:84:ARG:NH1	2.72	0.49
3:PA:93:TYR:HE2	13:PA:201:CYC:CBB	2.19	0.49
13:TA:202:CYC:CMD	13:TA:202:CYC:HC	2.25	0.49
1:A1:201:LEU:CG	7:c8:52:LYS:CE	2.80	0.49
3:C1:82:ALA:CB	13:C1:301:CYC:C3D	2.91	0.49
13:M1:202:CYC:HBA2	13:M1:202:CYC:HMA3	1.95	0.49
13:P1:202:CYC:HMA3	13:P1:202:CYC:HBA2	1.95	0.49
3:V1:79:ARG:O	13:V1:202:CYC:HMA1	2.12	0.49
3:V1:128:VAL:CG2	13:V1:202:CYC:HMB2	2.31	0.49
5:A2:216:PRO:O	7:X9:79:ALA:CB	2.56	0.49
2:F2:64:PHE:O	2:F2:67:THR:OG1	2.29	0.49
2:L2:2:VAL:HG22	3:M2:7:THR:HG21	1.94	0.49
4:N2:165:PHE:HA	4:N2:168:ILE:HD12	1.95	0.49
2:W2:64:PHE:O	2:W2:67:THR:OG1	2.29	0.49
3:X2:58:ARG:CZ	2:Y2:73:PRO:HG2	2.42	0.49
6:A3:15:GLN:OE1	6:A3:116:ARG:HB3	2.11	0.49
13:K3:201:CYC:CMD	13:K3:201:CYC:HC	2.24	0.49
2:F4:31:ARG:NH2	2:F4:101:VAL:O	2.44	0.49
2:J4:85:CYS:SG	13:J4:1001:CYC:C2C	2.99	0.49
2:O4:130:TYR:HB2	2:O4:162:LEU:HD21	1.92	0.49
3:T4:128:VAL:HG21	13:T4:202:CYC:HMB2	1.86	0.49
13:G5:201:CYC:HC	13:G5:201:CYC:HMD2	1.77	0.49
2:L6:31:ARG:C	2:L6:31:ARG:CD	2.85	0.49
2:L6:100:LEU:CD2	2:L6:150:GLU:OE1	2.61	0.49
3:T6:73:ASN:O	3:T6:79:ARG:HD2	2.12	0.49
3:X6:31:VAL:HA	3:X6:34:GLU:HB3	1.95	0.49
3:X6:45:ILE:HD11	3:X6:143:ALA:HB2	1.95	0.49
3:Z6:111:LEU:HD22	3:Z6:171:ALA:HB3	1.94	0.49
3:K7:111:LEU:HD22	3:K7:171:ALA:HB3	1.94	0.49
13:B8:1001:CYC:HMA1	10:09:572:ILE:HG21	1.90	0.49
7:H8:148:GLU:CD	7:X9:24:ASP:OD2	2.53	0.49
7:A9:65:VAL:HB	7:A9:72:ALA:HB3	1.93	0.49
7:I9:46:ASN:HD22	7:I9:140:LEU:HD21	1.77	0.49
7:I9:65:VAL:HB	7:I9:72:ALA:HB3	1.93	0.49
7:N9:46:ASN:HD22	7:N9:140:LEU:HD21	1.77	0.49
8:r9:76:THR:HG23	7:s9:111:GLY:H	1.78	0.49
7:s9:46:ASN:HD22	7:s9:140:LEU:HD21	1.77	0.49
13:PA:202:CYC:HC	13:PA:202:CYC:HMD2	1.77	0.49
3:RA:38:ARG:NH1	3:RA:98:ILE:O	2.45	0.49
13:RA:201:CYC:HMD2	13:RA:201:CYC:HC	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TA:150:THR:OG1	13:TA:202:CYC:HAD1	2.12	0.49
3:XA:38:ARG:NH1	3:XA:98:ILE:O	2.45	0.49
3:I1:36:ASN:HD21	13:I1:202:CYC:HAD1	1.78	0.49
13:K1:201:CYC:HMD2	13:K1:201:CYC:HC	1.77	0.49
13:M1:202:CYC:HC	13:M1:202:CYC:HMD2	1.77	0.49
2:S1:66:TYR:O	2:S1:70:THR:OG1	2.30	0.49
2:U1:31:ARG:NH2	2:U1:101:VAL:O	2.44	0.49
2:B2:64:PHE:O	2:B2:67:THR:OG1	2.29	0.49
2:H2:32:TYR:CE2	3:I2:35:GLY:HA3	2.48	0.49
3:M2:111:LEU:HD21	3:M2:168:ALA:HA	1.95	0.49
4:N2:6:ALA:HB2	3:T2:121:LEU:HA	1.95	0.49
13:W2:203:CYC:HMD2	13:W2:203:CYC:HC	1.77	0.49
3:X2:38:ARG:CG	3:X2:157:LEU:CD2	2.87	0.49
6:A3:113:PHE:O	6:A3:153:PHE:CZ	2.65	0.49
3:G3:38:ARG:HH12	3:G3:101:GLY:CA	2.26	0.49
2:L3:32:TYR:HE2	3:M3:35:GLY:CA	2.25	0.49
1:A4:61:LYS:C	1:A4:61:LYS:CD	2.85	0.49
1:A4:167:ASP:OD1	1:A4:168:ARG:N	2.45	0.49
1:A4:168:ARG:CZ	3:G4:112:ASN:HB3	2.43	0.49
2:B4:53:ILE:CD1	8:W8:22:THR:HG22	2.42	0.49
3:C4:77:ASN:OD1	13:D4:1001:CYC:HMA1	2.13	0.49
2:D4:85:CYS:SG	13:D4:1001:CYC:CBC	3.00	0.49
13:E4:202:CYC:CMD	13:E4:202:CYC:HC	2.24	0.49
2:F4:66:TYR:O	2:F4:70:THR:OG1	2.30	0.49
3:G4:86:ASP:O	3:G4:89:ILE:N	2.41	0.49
3:K4:38:ARG:HA	3:K4:157:LEU:HD11	1.94	0.49
4:N4:109:TYR:HB3	4:N4:161:LYS:HE2	1.94	0.49
2:O4:137:ILE:O	2:O4:141:HIS:HD2	1.95	0.49
13:V4:201:CYC:HC	13:V4:201:CYC:HMD2	1.77	0.49
5:A5:222:LEU:HD23	5:A5:222:LEU:C	2.37	0.49
13:K5:201:CYC:HC	13:K5:201:CYC:HMD2	1.77	0.49
3:P5:40:ASP:OD2	3:P5:40:ASP:N	2.39	0.49
3:P5:58:ARG:CZ	2:Q5:73:PRO:HB2	2.43	0.49
13:R5:201:CYC:HBA2	13:R5:201:CYC:HMA3	1.95	0.49
13:U5:1001:CYC:O2A	3:Z5:68:ILE:HD12	2.13	0.49
3:X5:38:ARG:NH1	3:X5:98:ILE:O	2.45	0.49
5:A6:194:TRP:NE1	7:N9:66:VAL:HG11	2.27	0.49
3:K6:111:LEU:HD21	3:K6:168:ALA:HA	1.95	0.49
13:M6:201:CYC:HMD2	13:M6:201:CYC:HC	1.77	0.49
4:N6:154:PHE:HZ	4:N6:172:TYR:OH	1.86	0.49
3:X6:111:LEU:HD21	3:X6:168:ALA:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z6:152:GLY:N	13:Z6:201:CYC:C4B	2.64	0.49
2:D7:123:PHE:CE2	13:D7:1001:CYC:HAA1	2.48	0.49
2:H7:32:TYR:CE2	3:I7:35:GLY:HA3	2.48	0.49
3:I7:41:VAL:HG23	13:I7:202:CYC:HMB2	1.86	0.49
2:L7:32:TYR:HE2	3:M7:35:GLY:CA	2.25	0.49
8:P8:47:ALA:HB2	7:u9:154:ASP:OD1	2.13	0.49
7:S8:98:ALA:HA	8:T8:6:ILE:HG21	1.95	0.49
8:W8:107:GLU:HG3	9:b8:58:THR:HB	1.95	0.49
7:e8:65:VAL:CG1	13:e8:1001:CYC:OC	2.60	0.49
10:09:304:TYR:HE1	8:M9:77:ARG:HB2	1.76	0.49
10:09:805:LYS:HB2	10:09:889:VAL:HG12	1.95	0.49
10:19:980:ARG:HD3	10:19:988:GLY:HA2	1.94	0.49
7:f9:65:VAL:HB	7:f9:72:ALA:HB3	1.93	0.49
7:s9:65:VAL:HB	7:s9:72:ALA:HB3	1.93	0.49
5:AA:166:ARG:NH2	5:AA:171:PRO:CD	2.74	0.49
3:CA:70:PRO:CB	3:EA:17:GLY:HA3	2.42	0.49
4:NA:22:GLU:O	4:NA:22:GLU:HG3	2.12	0.49
3:PA:83:CYS:HA	13:PA:201:CYC:HAC2	1.95	0.49
2:QA:34:ARG:NH1	2:QA:34:ARG:HG2	2.16	0.49
1:A1:129:ILE:HB	13:C1:301:CYC:CGA	2.39	0.49
2:B1:66:TYR:O	2:B1:70:THR:OG1	2.30	0.49
13:C1:302:CYC:HBA2	13:C1:302:CYC:HMA3	1.95	0.49
3:I1:36:ASN:OD1	13:I1:202:CYC:C1D	2.60	0.49
4:N1:127:ASP:N	4:N1:127:ASP:OD2	2.46	0.49
3:P1:36:ASN:ND2	13:P1:202:CYC:C3D	2.76	0.49
13:P1:202:CYC:HC	13:P1:202:CYC:HMD2	1.77	0.49
13:Q1:202:CYC:CMD	13:Q1:202:CYC:HC	2.24	0.49
13:T1:201:CYC:CMD	13:T1:201:CYC:HC	2.25	0.49
3:G2:111:LEU:HD21	3:G2:168:ALA:HA	1.95	0.49
2:L2:32:TYR:HE2	3:M2:35:GLY:CA	2.25	0.49
2:L2:34:ARG:HH21	2:L2:150:GLU:HG2	1.77	0.49
2:O2:31:ARG:NH1	2:O2:101:VAL:O	2.46	0.49
2:Q2:31:ARG:HD3	2:Q2:31:ARG:C	2.36	0.49
3:T2:111:LEU:HD21	3:T2:168:ALA:HA	1.95	0.49
2:U2:29:ARG:HB2	13:V2:201:CYC:OC	2.13	0.49
6:A3:103:TYR:CZ	3:C3:117:THR:CG2	2.96	0.49
3:K3:40:ASP:CG	3:K3:149:ILE:HD13	2.36	0.49
2:L3:2:VAL:HG22	3:M3:7:THR:HG21	1.94	0.49
2:D4:29:ARG:CD	13:E4:202:CYC:OB	2.59	0.49
3:E4:152:GLY:N	13:E4:202:CYC:HMD2	2.27	0.49
3:K4:150:THR:OG1	13:K4:202:CYC:CAA	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O4:66:TYR:O	2:O4:70:THR:OG1	2.30	0.49
2:S4:141:HIS:ND1	2:S4:143:LEU:CB	2.74	0.49
3:C5:75:TYR:HH	2:D5:94:ARG:NH1	2.11	0.49
3:V5:67:LEU:HB3	3:V5:74:ALA:HB3	1.95	0.49
3:X5:154:CYS:CB	13:X5:202:CYC:C3B	2.90	0.49
5:A6:212:ARG:NE	8:M9:68:ARG:CZ	2.76	0.49
3:I6:85:ARG:C	3:I6:85:ARG:CD	2.85	0.49
13:I6:202:CYC:HMD2	13:I6:202:CYC:HC	1.77	0.49
2:L6:2:VAL:HG22	3:M6:7:THR:HG21	1.94	0.49
2:O6:31:ARG:NH1	2:O6:101:VAL:O	2.46	0.49
3:P6:111:LEU:HD21	3:P6:168:ALA:HA	1.95	0.49
6:A7:57:HIS:ND1	3:G7:85:ARG:CB	2.62	0.49
3:E7:154:CYS:CB	13:E7:202:CYC:H2C	2.42	0.49
3:G7:38:ARG:HH12	3:G7:101:GLY:CA	2.26	0.49
13:K7:202:CYC:CMD	13:K7:202:CYC:HC	2.24	0.49
2:L7:31:ARG:C	2:L7:31:ARG:CD	2.86	0.49
8:K8:109:VAL:CG1	13:K8:1001:CYC:CAB	2.73	0.49
7:L8:113:ARG:HH22	7:b9:113:ARG:HH21	1.58	0.49
7:Q8:65:VAL:CG1	13:Q8:1001:CYC:OC	2.60	0.49
7:R9:46:ASN:HD22	7:R9:140:LEU:HD21	1.77	0.49
7:f9:46:ASN:HD22	7:f9:140:LEU:HD21	1.77	0.49
7:y9:65:VAL:HB	7:y9:72:ALA:HB3	1.93	0.49
5:AA:132:VAL:HG13	5:AA:136:LYS:HD2	1.93	0.49
3:EA:67:LEU:HB3	3:EA:74:ALA:HB3	1.95	0.49
13:IA:202:CYC:HC	13:IA:202:CYC:HMD2	1.77	0.49
3:TA:34:GLU:HA	3:TA:37:LYS:HD2	1.95	0.49
3:C1:77:ASN:OD1	13:D1:1001:CYC:HMA1	2.13	0.49
13:C1:302:CYC:HMD2	13:C1:302:CYC:HC	1.77	0.49
2:D1:94:ARG:NH2	3:E1:17:GLY:HA2	2.28	0.49
3:I1:88:GLU:O	3:I1:92:ARG:N	2.43	0.49
13:K1:202:CYC:HC	13:K1:202:CYC:HMD2	1.77	0.49
3:T1:36:ASN:HD21	13:T1:201:CYC:HMA3	1.77	0.49
13:V1:201:CYC:CMA	13:V1:201:CYC:NB	2.72	0.49
2:B2:26:GLN:NE2	2:J2:103:GLY:O	2.46	0.49
2:D2:2:VAL:HG22	3:E2:7:THR:HG21	1.93	0.49
2:D2:23:THR:HG23	2:D2:24:GLU:CD	2.36	0.49
3:E2:111:LEU:HD22	3:E2:171:ALA:HB3	1.94	0.49
2:J2:91:HIS:HB2	13:J2:1001:CYC:HMB2	1.95	0.49
3:P2:111:LEU:HD22	3:P2:171:ALA:HB3	1.94	0.49
2:Q2:31:ARG:NH1	2:Q2:103:GLY:HA3	2.28	0.49
2:S2:5:PRO:HB2	2:S2:31:ARG:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S2:29:ARG:NH2	13:T2:201:CYC:NB	2.60	0.49
3:V2:111:LEU:HD22	3:V2:171:ALA:HB3	1.94	0.49
3:X2:31:VAL:HA	3:X2:34:GLU:HB3	1.95	0.49
3:Z2:40:ASP:OD1	13:Z2:201:CYC:C1D	2.55	0.49
3:E3:111:LEU:HD21	3:E3:168:ALA:HA	1.95	0.49
3:G3:34:GLU:CD	3:G3:157:LEU:HD22	2.30	0.49
3:G3:152:GLY:CA	13:G3:202:CYC:HMD1	2.39	0.49
3:G4:154:CYS:SG	13:G4:201:CYC:CAC	2.97	0.49
2:L4:51:ARG:NH2	3:C7:149:ILE:N	2.56	0.49
2:Q4:20:LEU:HD13	3:R4:99:LEU:HD13	1.95	0.49
2:Q4:66:TYR:O	2:Q4:70:THR:OG1	2.30	0.49
3:X4:53:VAL:HG21	3:X4:88:GLU:HG2	1.94	0.49
3:X4:123:THR:CG2	3:X4:124:PRO:HD2	2.42	0.49
5:A5:38:VAL:HG23	5:A5:44:ILE:HG13	1.94	0.49
5:A5:106:ARG:NH2	5:A5:176:THR:CG2	2.73	0.49
3:E5:80:MET:HB3	2:F5:119:ILE:HD11	1.94	0.49
3:T5:34:GLU:HA	3:T5:37:LYS:HD2	1.95	0.49
3:X5:67:LEU:HB3	3:X5:74:ALA:HB3	1.95	0.49
13:X5:202:CYC:HC	13:X5:202:CYC:HMD2	1.77	0.49
5:A6:86:ARG:NH2	5:A6:147:ASP:OD1	2.46	0.49
3:E6:111:LEU:HD22	3:E6:171:ALA:HB3	1.94	0.49
3:G6:111:LEU:HD22	3:G6:171:ALA:HB3	1.94	0.49
2:Q6:31:ARG:NH1	2:Q6:103:GLY:HA3	2.28	0.49
2:U6:119:ILE:CD1	13:U6:202:CYC:HMA1	2.20	0.49
3:Z6:38:ARG:HH22	3:Z6:101:GLY:HA3	1.76	0.49
13:E7:202:CYC:HMD2	13:E7:202:CYC:HC	1.77	0.49
3:I7:111:LEU:HD22	3:I7:171:ALA:HB3	1.94	0.49
13:K7:202:CYC:HC	13:K7:202:CYC:HMD2	1.77	0.49
2:L7:2:VAL:HG22	3:M7:7:THR:HG21	1.94	0.49
8:P8:88:TYR:OH	10:09:768:GLY:N	2.46	0.49
8:W8:88:TYR:CD2	13:W8:1001:CYC:HBB3	2.48	0.49
7:t8:14:GLU:HG3	10:19:973:LEU:HD11	1.95	0.49
10:09:247:ARG:HB3	10:09:257:LEU:H	1.78	0.49
9:49:14:LEU:C	9:49:14:LEU:CD1	2.86	0.49
7:K9:65:VAL:HB	7:K9:72:ALA:HB3	1.93	0.49
2:DA:17:GLY:HA2	3:EA:92:ARG:HH12	1.76	0.49
13:EA:201:CYC:HMA3	13:EA:201:CYC:HBA2	1.95	0.49
2:FA:61:TYR:OH	2:FA:85:CYS:SG	2.68	0.49
2:OA:33:GLU:HB3	2:WA:29:ARG:HH22	1.75	0.49
1:A1:61:LYS:C	1:A1:61:LYS:CD	2.85	0.49
13:C1:302:CYC:CBD	13:C1:302:CYC:CHA	2.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D1:85:CYS:SG	13:D1:1001:CYC:CBC	3.00	0.49
3:I1:150:THR:HG21	13:I1:202:CYC:HAA2	1.93	0.49
2:J1:85:CYS:SG	13:J1:1001:CYC:C2C	2.99	0.49
13:K1:201:CYC:HBA2	13:K1:201:CYC:HMA3	1.95	0.49
13:Q1:202:CYC:HMD2	13:Q1:202:CYC:HC	1.77	0.49
13:Q1:202:CYC:HBA2	13:Q1:202:CYC:HMA3	1.95	0.49
13:V1:201:CYC:HMA3	13:V1:201:CYC:HBA2	1.95	0.49
3:X1:87:MET:SD	13:X1:201:CYC:CBC	3.00	0.49
2:D2:85:CYS:CA	13:D2:1001:CYC:HAC2	2.40	0.49
13:M2:201:CYC:HMA3	13:M2:201:CYC:HBA2	1.95	0.49
2:S2:29:ARG:HD3	2:S2:33:GLU:OE1	2.13	0.49
3:T2:73:ASN:O	3:T2:79:ARG:HD2	2.12	0.49
3:V2:121:LEU:HD13	13:V2:202:CYC:O2A	2.11	0.49
13:Z2:201:CYC:HBA2	13:Z2:201:CYC:HMA3	1.95	0.49
2:B3:26:GLN:NE2	2:J3:103:GLY:O	2.46	0.49
2:H3:85:CYS:HA	13:H3:1001:CYC:CAC	2.43	0.49
3:I3:41:VAL:CG2	13:I3:202:CYC:HMB1	2.34	0.49
13:K3:202:CYC:HMA3	13:K3:202:CYC:HBA2	1.95	0.49
2:F4:74:GLN:HA	13:F4:1001:CYC:HBD2	1.95	0.49
2:F4:123:PHE:CE2	13:F4:1001:CYC:CAA	2.95	0.49
3:P4:36:ASN:ND2	13:P4:202:CYC:C3D	2.76	0.49
13:P4:202:CYC:HBA2	13:P4:202:CYC:HMA3	1.95	0.49
5:A5:201:PHE:CZ	8:z9:63:TYR:CE1	3.01	0.49
3:E5:67:LEU:HB3	3:E5:74:ALA:HB3	1.95	0.49
2:B6:26:GLN:NE2	2:J6:103:GLY:O	2.46	0.49
2:D6:85:CYS:HA	13:D6:1001:CYC:CAC	2.40	0.49
13:K6:201:CYC:HC	13:K6:201:CYC:HMD2	1.77	0.49
3:T6:111:LEU:HD21	3:T6:168:ALA:HA	1.95	0.49
2:Y6:31:ARG:CD	2:Y6:31:ARG:C	2.86	0.49
6:A7:65:GLN:HB3	6:A7:67:PHE:CE2	2.48	0.49
13:H7:1001:CYC:O1D	3:M7:58:ARG:NH1	2.44	0.49
3:I7:111:LEU:HD21	3:I7:168:ALA:HA	1.95	0.49
3:M7:111:LEU:HD22	3:M7:171:ALA:HB3	1.94	0.49
7:L8:25:ARG:HD2	7:Z9:25:ARG:HH22	1.77	0.49
9:N8:31:LEU:HG	10:19:578:GLU:HG2	1.94	0.49
13:Y8:1001:CYC:HBB2	9:b8:21:ARG:CG	2.42	0.49
7:t8:14:GLU:CG	10:19:973:LEU:CD1	2.90	0.49
9:49:25:ASN:N	9:49:25:ASN:ND2	2.60	0.49
7:E9:16:ARG:NH2	7:E9:17:TYR:O	2.46	0.49
7:E9:44:THR:HA	8:F9:19:TYR:CD1	2.47	0.49
7:R9:65:VAL:HB	7:R9:72:ALA:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:e9:84:ARG:NH1	13:e9:1001:CYC:CGA	2.73	0.49
7:k9:94:TYR:OH	8:l9:18:LYS:O	2.31	0.49
7:w9:65:VAL:HB	7:w9:72:ALA:HB3	1.93	0.49
5:AA:172:HIS:HA	5:AA:175:VAL:HG12	1.95	0.49
13:GA:1002:CYC:HMA3	13:GA:1002:CYC:HBA2	1.95	0.49
13:IA:202:CYC:HMA3	13:IA:202:CYC:HBA2	1.95	0.49
3:ZA:67:LEU:HB3	3:ZA:74:ALA:HB3	1.95	0.49
13:ZA:202:CYC:HMA3	13:ZA:202:CYC:HBA2	1.95	0.49
2:F1:66:TYR:O	2:F1:70:THR:OG1	2.30	0.49
2:H1:66:TYR:O	2:H1:70:THR:OG1	2.30	0.49
13:I1:202:CYC:HC	13:I1:202:CYC:HMD2	1.77	0.49
3:M1:118:TYR:HE2	3:M1:128:VAL:HG21	1.76	0.49
2:L2:100:LEU:CD2	2:L2:150:GLU:OE1	2.61	0.49
4:N2:172:TYR:HA	4:N2:182:GLN:NE2	2.28	0.49
2:Q2:22:ASN:ND2	2:U2:154:TYR:OH	2.46	0.49
3:V2:111:LEU:HD21	3:V2:168:ALA:HA	1.95	0.49
3:X2:45:ILE:HD11	3:X2:143:ALA:HB2	1.95	0.49
2:L3:100:LEU:CD2	2:L3:150:GLU:OE1	2.60	0.49
3:M3:111:LEU:HD21	3:M3:168:ALA:HA	1.95	0.49
13:M3:201:CYC:HMD2	13:M3:201:CYC:HC	1.77	0.49
13:N3:301:CYC:HHA	13:N3:301:CYC:CBA	2.26	0.49
2:B4:123:PHE:CE2	13:B4:1001:CYC:HAA1	2.48	0.49
13:C4:302:CYC:HMD2	13:C4:302:CYC:HC	1.77	0.49
3:G4:73:ASN:ND2	3:G4:123:THR:HG23	2.28	0.49
13:I4:202:CYC:HC	13:I4:202:CYC:HMD2	1.77	0.49
13:K4:201:CYC:HBA2	13:K4:201:CYC:HMA3	1.95	0.49
2:Q4:150:GLU:OE2	2:U4:22:ASN:ND2	2.45	0.49
13:Z4:201:CYC:HBA2	13:Z4:201:CYC:HMA3	1.95	0.49
5:A5:213:GLU:OE2	8:p9:69:PRO:HG2	2.13	0.49
13:E5:201:CYC:HMD2	13:E5:201:CYC:HC	1.77	0.49
13:G5:201:CYC:HBA2	13:G5:201:CYC:HMA3	1.95	0.49
13:K5:201:CYC:HMA3	13:K5:201:CYC:HBA2	1.95	0.49
3:P5:83:CYS:HA	13:P5:201:CYC:HAC2	1.95	0.49
3:R5:157:LEU:C	3:R5:157:LEU:CD1	2.86	0.49
13:V5:202:CYC:HC	13:V5:202:CYC:HMD2	1.77	0.49
5:A6:60:GLU:HA	5:A6:62:LEU:CD1	2.42	0.49
13:K6:201:CYC:HMA3	13:K6:201:CYC:HBA2	1.95	0.49
4:N6:109:TYR:CD2	4:N6:161:LYS:HD3	2.48	0.49
2:O6:34:ARG:CZ	13:X6:202:CYC:HBC2	2.41	0.49
2:Q6:91:HIS:HB2	13:Q6:201:CYC:CMB	2.43	0.49
3:T6:111:LEU:HD22	3:T6:171:ALA:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V6:111:LEU:HD22	3:V6:171:ALA:HB3	1.94	0.49
3:X6:58:ARG:CZ	2:Y6:73:PRO:HG2	2.42	0.49
3:Z6:83:CYS:CA	13:Z6:202:CYC:HAC2	2.36	0.49
3:C7:107:ASP:OD1	3:C7:107:ASP:N	2.46	0.49
2:L7:74:GLN:NE2	2:L7:75:PHE:CE2	2.80	0.49
7:C8:65:VAL:CG1	13:C8:1001:CYC:OC	2.60	0.49
7:S8:98:ALA:HB2	8:T8:10:ILE:CD1	2.43	0.49
8:h8:109:VAL:CG1	13:h8:1001:CYC:CAB	2.73	0.49
7:p8:65:VAL:CG1	13:p8:1001:CYC:OC	2.60	0.49
10:19:719:VAL:H	13:r9:1001:CYC:CGD	2.25	0.49
9:39:3:ARG:HA	9:39:58:THR:O	2.12	0.49
12:m9:2:THR:OG1	12:m9:3:VAL:N	2.46	0.49
12:m9:138:LEU:HD21	12:m9:150:ALA:HB2	1.95	0.49
7:w9:66:VAL:HB	5:AA:230:GLY:HA2	1.95	0.49
5:AA:9:LYS:HD3	3:EA:112:ASN:HD21	1.77	0.49
2:SA:32:TYR:CD1	3:TA:32:VAL:HA	2.48	0.49
3:TA:152:GLY:CA	13:TA:202:CYC:CMD	2.90	0.49
13:TA:202:CYC:HC	13:TA:202:CYC:HMD2	1.78	0.49
3:G1:73:ASN:ND2	3:G1:123:THR:HG23	2.28	0.49
4:N1:179:ASP:OD2	4:N1:189:ARG:NH1	2.29	0.49
3:R1:78:ARG:NH2	3:R1:79:ARG:HD3	2.28	0.49
13:Z1:201:CYC:HBA2	13:Z1:201:CYC:HMA3	1.95	0.49
13:E2:202:CYC:HBA2	13:E2:202:CYC:HMA3	1.95	0.49
3:G2:38:ARG:HH12	3:G2:101:GLY:CA	2.26	0.49
13:G2:201:CYC:HMD2	13:G2:201:CYC:HC	1.77	0.49
3:I2:111:LEU:HD21	3:I2:168:ALA:HA	1.95	0.49
2:L2:31:ARG:C	2:L2:31:ARG:CD	2.85	0.49
2:Q2:74:GLN:NE2	2:Q2:75:PHE:HE2	1.99	0.49
3:E3:111:LEU:HD22	3:E3:171:ALA:HB3	1.94	0.49
2:F3:26:GLN:OE1	2:L3:5:PRO:HG2	2.13	0.49
2:H3:32:TYR:HE2	3:I3:35:GLY:HA3	1.78	0.49
3:C4:82:ALA:CB	13:C4:301:CYC:C3D	2.90	0.49
13:C4:302:CYC:HBA2	13:C4:302:CYC:HMA3	1.95	0.49
3:M4:76:THR:HG22	3:M4:79:ARG:CD	2.42	0.49
13:T4:201:CYC:HMD2	13:T4:201:CYC:HC	1.77	0.49
2:Y4:31:ARG:NH2	2:Y4:101:VAL:O	2.44	0.49
3:Z4:150:THR:OG1	13:Z4:201:CYC:C2A	2.60	0.49
5:A5:239:PHE:HA	7:A9:52:LYS:CE	2.41	0.49
3:C5:67:LEU:HB3	3:C5:74:ALA:HB3	1.95	0.49
13:I5:202:CYC:HC	13:I5:202:CYC:HMD2	1.77	0.49
3:K5:34:GLU:HA	3:K5:37:LYS:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X5:34:GLU:HA	3:X5:37:LYS:HD2	1.95	0.49
3:E6:154:CYS:CB	13:E6:202:CYC:H2C	2.42	0.49
3:G6:86:ASP:OD1	13:G6:202:CYC:CHD	2.40	0.49
2:Q6:22:ASN:ND2	2:U6:154:TYR:OH	2.46	0.49
2:U6:73:PRO:CB	3:Z6:58:ARG:HH12	2.22	0.49
2:B7:26:GLN:NE2	2:J7:103:GLY:O	2.46	0.49
2:B7:31:ARG:HH22	2:B7:35:ALA:HB1	1.78	0.49
13:K7:201:CYC:HMD2	13:K7:201:CYC:HC	1.77	0.49
7:O8:69:GLY:HA3	7:w9:64:ASP:OD2	2.12	0.49
8:o8:88:TYR:CE1	13:o8:1001:CYC:HAB1	2.47	0.49
10:19:986:PHE:CE1	13:19:1201:CYC:CGA	2.95	0.49
8:F9:84:ARG:NH1	13:F9:1001:CYC:CGA	2.73	0.49
7:I9:16:ARG:NH2	7:I9:17:TYR:O	2.46	0.49
8:e9:135:LYS:NZ	8:e9:155:ASP:OD2	2.43	0.49
7:k9:16:ARG:NH2	7:k9:17:TYR:O	2.46	0.49
8:l9:135:LYS:NZ	8:l9:155:ASP:OD2	2.43	0.49
8:r9:84:ARG:NH1	13:r9:1001:CYC:CGA	2.73	0.49
5:AA:34:ARG:NH1	4:NA:250:PRO:O	2.40	0.49
5:AA:42:THR:OG1	2:LA:2:VAL:N	2.45	0.49
13:CA:201:CYC:HBA2	13:CA:201:CYC:HMA3	1.95	0.49
2:HA:6:ILE:HG13	2:HA:31:ARG:CD	2.42	0.49
3:IA:40:ASP:OD2	3:IA:40:ASP:N	2.39	0.49
13:KA:201:CYC:HMA3	13:KA:201:CYC:HBA2	1.95	0.49
3:RA:67:LEU:HB3	3:RA:74:ALA:HB3	1.95	0.49
3:VA:67:LEU:HB3	3:VA:74:ALA:HB3	1.95	0.49
13:XA:202:CYC:HC	13:XA:202:CYC:HMD2	1.77	0.49
2:B1:29:ARG:NH2	2:J1:34:ARG:HD3	2.28	0.48
2:F1:138:LYS:O	2:F1:141:HIS:NE2	2.44	0.48
4:N1:167:ARG:HB3	4:N1:190:LEU:HD13	1.95	0.48
13:T1:201:CYC:HMD2	13:T1:201:CYC:HC	1.78	0.48
13:T1:201:CYC:HMA3	13:T1:201:CYC:HBA2	1.95	0.48
2:Y1:66:TYR:O	2:Y1:70:THR:OG1	2.30	0.48
2:D2:85:CYS:HA	13:D2:1001:CYC:CAC	2.40	0.48
4:N2:109:TYR:CD2	4:N2:161:LYS:HD3	2.48	0.48
2:Q2:31:ARG:HH11	2:Q2:102:ALA:C	2.20	0.48
2:U2:61:TYR:HH	2:U2:85:CYS:HG	1.60	0.48
2:W2:29:ARG:HG2	13:W2:203:CYC:C1C	2.40	0.48
3:X2:111:LEU:HD22	3:X2:171:ALA:HB3	1.94	0.48
2:Y2:125:LEU:HD11	13:Y2:201:CYC:CHA	2.43	0.48
2:D3:85:CYS:HA	13:D3:1001:CYC:CAC	2.40	0.48
13:E3:202:CYC:HMD2	13:E3:202:CYC:HC	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I3:85:ARG:C	3:I3:85:ARG:CD	2.86	0.48
3:I3:111:LEU:HD21	3:I3:168:ALA:HA	1.95	0.48
13:E4:202:CYC:HBA2	13:E4:202:CYC:HMA3	1.95	0.48
3:T4:154:CYS:SG	3:T4:158:ILE:HD12	2.53	0.48
13:A5:303:CYC:NC	3:G5:83:CYS:SG	2.86	0.48
3:E5:144:ASN:O	13:E5:201:CYC:HMC2	2.13	0.48
3:M5:155:SER:HA	3:M5:158:ILE:HB	1.94	0.48
13:T5:202:CYC:HC	13:T5:202:CYC:HMD2	1.78	0.48
5:A6:19:SER:HB2	5:A6:165:LYS:NZ	2.28	0.48
3:E6:111:LEU:HD21	3:E6:168:ALA:HA	1.95	0.48
3:G6:12:GLN:OE1	8:a8:148:LYS:CE	2.56	0.48
3:G6:111:LEU:HD21	3:G6:168:ALA:HA	1.95	0.48
13:K6:202:CYC:HC	13:K6:202:CYC:HMD2	1.77	0.48
2:Q6:88:ASP:OD2	13:Q6:201:CYC:NA	2.46	0.48
2:S6:29:ARG:NH2	13:T6:201:CYC:NB	2.60	0.48
13:T6:201:CYC:HMA3	13:T6:201:CYC:HBA2	1.95	0.48
3:V6:114:LEU:HD13	13:V6:202:CYC:HAC2	1.95	0.48
6:A7:60:ILE:HG21	2:B7:115:GLY:CA	2.43	0.48
3:C7:114:LEU:CD2	3:C7:172:VAL:HG22	2.41	0.48
13:C7:201:CYC:HMA3	13:C7:201:CYC:HBA2	1.95	0.48
2:D7:27:SER:OG	2:H7:27:SER:HB2	2.13	0.48
3:E7:111:LEU:HD21	3:E7:168:ALA:HA	1.95	0.48
3:G7:111:LEU:HD21	3:G7:168:ALA:HA	1.95	0.48
13:G7:202:CYC:HMD2	13:G7:202:CYC:HC	1.77	0.48
2:H7:32:TYR:HE2	3:I7:35:GLY:HA3	1.78	0.48
3:I7:85:ARG:C	3:I7:85:ARG:CD	2.86	0.48
8:P8:109:VAL:CG1	13:P8:1001:CYC:CAB	2.73	0.48
8:m8:109:VAL:HA	10:09:1099:ALA:CB	2.43	0.48
10:09:354:ARG:HD2	10:09:423:LEU:HG	1.94	0.48
10:19:179:ASN:HA	10:19:182:VAL:HG22	1.94	0.48
10:19:192:ILE:HG12	10:19:196:CYS:HB3	1.93	0.48
7:G9:16:ARG:NH2	7:G9:17:TYR:O	2.46	0.48
8:t9:84:ARG:NH1	13:t9:1001:CYC:CGA	2.73	0.48
8:x9:76:THR:HG23	7:y9:111:GLY:H	1.76	0.48
3:CA:149:ILE:CD1	3:CA:149:ILE:H	2.26	0.48
2:DA:17:GLY:HA2	3:EA:92:ARG:NH1	2.28	0.48
3:IA:34:GLU:HA	3:IA:37:LYS:HD2	1.95	0.48
3:KA:67:LEU:HB3	3:KA:74:ALA:HB3	1.95	0.48
4:NA:206:SER:O	3:PA:113:GLY:N	2.44	0.48
3:ZA:89:ILE:CG1	13:ZA:201:CYC:HBB3	2.42	0.48
1:A1:90:GLU:HA	1:A1:93:LYS:HB3	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:194:ASP:O	7:c8:83:ARG:CD	2.45	0.48
1:A1:198:PHE:CB	7:c8:79:ALA:O	2.61	0.48
2:B1:123:PHE:CE2	13:B1:1001:CYC:HAA1	2.48	0.48
3:E1:128:VAL:CG2	13:E1:201:CYC:H3C	2.43	0.48
13:G1:201:CYC:HC	13:G1:201:CYC:HMD2	1.77	0.48
2:Q1:20:LEU:HD13	3:R1:99:LEU:HD13	1.95	0.48
13:Z1:201:CYC:HC	13:Z1:201:CYC:HMD2	1.77	0.48
5:A2:226:VAL:HG21	7:X9:59:PHE:CE2	2.47	0.48
2:D2:123:PHE:CE2	13:D2:1001:CYC:HAA1	2.48	0.48
13:E2:202:CYC:HMD2	13:E2:202:CYC:HC	1.77	0.48
2:O2:2:VAL:N	3:P2:2:THR:HG1	2.11	0.48
3:V2:43:ASN:HD22	13:V2:201:CYC:HBC3	1.75	0.48
13:W2:203:CYC:HBA2	13:W2:203:CYC:HMA3	1.95	0.48
6:A3:129:ILE:HD13	3:C3:85:ARG:HH12	1.67	0.48
2:F3:14:ASP:HA	3:G3:92:ARG:HH21	1.79	0.48
1:A4:98:LYS:NZ	2:B4:2:VAL:O	2.46	0.48
13:K4:202:CYC:HMA3	13:K4:202:CYC:HBA2	1.95	0.48
4:N4:127:ASP:N	4:N4:127:ASP:OD2	2.46	0.48
5:A5:53:ARG:C	5:A5:53:ARG:HD2	2.38	0.48
5:A5:61:ILE:O	5:A5:66:ARG:HG3	2.13	0.48
2:D5:17:GLY:HA2	3:E5:92:ARG:NH1	2.28	0.48
4:N5:195:ALA:HB3	3:R5:120:ALA:HB1	1.95	0.48
5:A6:223:ALA:O	5:A6:226:VAL:HG12	2.13	0.48
2:B6:34:ARG:HH12	13:K6:202:CYC:HBC2	1.78	0.48
3:G6:82:ALA:CB	13:G6:202:CYC:CMD	2.84	0.48
2:L6:31:ARG:NH1	2:L6:103:GLY:N	2.60	0.48
3:R6:111:LEU:HD21	3:R6:168:ALA:HA	1.95	0.48
13:V6:201:CYC:HBA2	13:V6:201:CYC:HMA3	1.95	0.48
3:Z6:76:THR:OG1	3:Z6:77:ASN:N	2.39	0.48
6:A7:60:ILE:CG2	2:B7:115:GLY:CA	2.91	0.48
2:D7:34:ARG:HH22	13:I7:202:CYC:HAC2	1.77	0.48
13:G7:202:CYC:HBA2	13:G7:202:CYC:HMA3	1.95	0.48
8:M8:109:VAL:CG1	13:M8:1001:CYC:CAB	2.73	0.48
7:O8:64:ASP:CG	7:w9:70:GLY:N	2.71	0.48
8:q8:84:ARG:CZ	10:19:1059:ASN:ND2	2.72	0.48
7:t8:79:ALA:HB1	10:19:929:LEU:HG	1.94	0.48
10:19:907:PRO:HD3	8:r9:152:ILE:HD12	1.93	0.48
7:R9:16:ARG:NH2	7:R9:17:TYR:O	2.46	0.48
12:V9:138:LEU:HD21	12:V9:150:ALA:HB2	1.95	0.48
7:y9:16:ARG:NH2	7:y9:17:TYR:O	2.46	0.48
13:AA:303:CYC:NC	3:GA:83:CYS:SG	2.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:61:TYR:OH	2:OA:85:CYS:SG	2.68	0.48
3:XA:68:ILE:HD11	13:YA:201:CYC:O1A	2.00	0.48
3:ZA:44:ARG:HG2	3:ZA:142:ILE:HG22	1.91	0.48
3:ZA:150:THR:OG1	13:ZA:202:CYC:C2A	2.61	0.48
2:J1:29:ARG:HH21	13:K1:202:CYC:C1C	2.23	0.48
13:K1:202:CYC:HMA3	13:K1:202:CYC:HBA2	1.95	0.48
2:F2:26:GLN:OE1	2:L2:5:PRO:HG2	2.13	0.48
3:I2:85:ARG:C	3:I2:85:ARG:CD	2.86	0.48
13:K2:202:CYC:HMA3	13:K2:202:CYC:HBA2	1.95	0.48
2:L2:34:ARG:O	2:L2:37:ALA:N	2.40	0.48
2:S2:85:CYS:HA	13:S2:1001:CYC:HAC2	1.94	0.48
13:U2:201:CYC:HMA3	13:U2:201:CYC:HBA2	1.95	0.48
6:A3:60:ILE:CG2	2:B3:115:GLY:CA	2.91	0.48
6:A3:104:ARG:O	6:A3:108:ILE:CG1	2.43	0.48
2:B3:54:ASP:HA	2:B3:57:THR:HG22	1.96	0.48
3:G3:66:GLN:HB2	2:FA:63:LYS:CA	2.39	0.48
2:J3:29:ARG:N	3:K3:39:LEU:HD11	2.28	0.48
2:J3:91:HIS:HB2	13:J3:1001:CYC:HMB2	1.95	0.48
1:A4:84:ARG:HH12	1:A4:141:ASP:HA	1.77	0.48
2:D4:94:ARG:NH2	3:E4:17:GLY:HA2	2.28	0.48
3:E4:88:GLU:O	3:E4:92:ARG:N	2.43	0.48
13:G4:201:CYC:HBA2	13:G4:201:CYC:HMA3	1.95	0.48
3:I4:36:ASN:OD1	13:I4:202:CYC:C1D	2.60	0.48
2:U4:66:TYR:O	2:U4:70:THR:OG1	2.30	0.48
2:W4:34:ARG:HH12	2:W4:150:GLU:HB2	1.66	0.48
2:W4:66:TYR:O	2:W4:70:THR:OG1	2.30	0.48
5:A5:103:ASN:OD1	5:A5:104:ASN:N	2.46	0.48
3:P5:68:ILE:HD12	13:P5:203:CYC:O2A	2.07	0.48
3:R5:144:ASN:HA	13:R5:201:CYC:HMC1	1.95	0.48
13:T5:202:CYC:HBA2	13:T5:202:CYC:HMA3	1.95	0.48
3:V5:34:GLU:HA	3:V5:37:LYS:HD2	1.95	0.48
2:H6:85:CYS:HA	13:H6:1001:CYC:CAC	2.43	0.48
3:I6:111:LEU:HD22	3:I6:171:ALA:HB3	1.94	0.48
3:M6:83:CYS:HB3	13:N6:301:CYC:CHD	2.43	0.48
4:N6:68:THR:OG1	4:N6:71:GLU:OE1	2.31	0.48
2:Q6:61:TYR:HH	2:Q6:85:CYS:HG	1.58	0.48
3:V6:111:LEU:HD21	3:V6:168:ALA:HA	1.95	0.48
13:W6:201:CYC:HMA3	13:W6:201:CYC:HBA2	1.95	0.48
13:E7:202:CYC:HMA3	13:E7:202:CYC:HBA2	1.95	0.48
2:H7:31:ARG:NH1	2:H7:101:VAL:O	2.47	0.48
3:I7:40:ASP:HB2	13:I7:202:CYC:HHD	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L7:100:LEU:CD2	2:L7:150:GLU:OE1	2.60	0.48
3:M7:111:LEU:HD21	3:M7:168:ALA:HA	1.95	0.48
8:B8:75:THR:HG22	7:C8:107:ILE:O	2.13	0.48
8:D8:77:ARG:CZ	13:D8:1001:CYC:O1D	2.56	0.48
7:E8:94:TYR:OH	8:F8:18:LYS:O	2.32	0.48
7:S8:25:ARG:CD	7:w9:25:ARG:CD	2.92	0.48
10:19:321:SER:OG	10:19:398:GLU:O	2.30	0.48
10:19:872:PHE:O	10:19:875:THR:OG1	2.29	0.48
7:E9:97:VAL:HG21	8:F9:20:LEU:CD1	2.43	0.48
7:I9:23:LEU:HD12	8:J9:39:VAL:O	2.13	0.48
7:b9:16:ARG:NH2	7:b9:17:TYR:O	2.46	0.48
3:EA:144:ASN:O	13:EA:201:CYC:HMC2	2.13	0.48
4:NA:195:ALA:HB3	3:RA:120:ALA:HB1	1.95	0.48
3:PA:34:GLU:HA	3:PA:37:LYS:HD2	1.95	0.48
3:RA:144:ASN:HA	13:RA:201:CYC:HMC1	1.95	0.48
3:RA:157:LEU:C	3:RA:157:LEU:CD1	2.86	0.48
3:XA:34:GLU:HA	3:XA:37:LYS:HD2	1.95	0.48
1:A1:59:ILE:HD12	1:A1:59:ILE:O	2.13	0.48
2:B1:23:THR:HG23	2:J1:104:GLY:HA3	1.95	0.48
13:E1:202:CYC:HBA2	13:E1:202:CYC:HMA3	1.95	0.48
3:K1:38:ARG:HA	3:K1:157:LEU:HD11	1.94	0.48
3:K1:88:GLU:O	3:K1:92:ARG:N	2.43	0.48
3:T1:82:ALA:CB	13:T1:202:CYC:HAA1	2.15	0.48
3:V1:36:ASN:ND2	13:V1:201:CYC:CMD	2.71	0.48
5:A2:86:ARG:NH2	5:A2:147:ASP:OD1	2.46	0.48
2:J2:61:TYR:HH	2:J2:85:CYS:HG	1.57	0.48
3:M2:111:LEU:HD22	3:M2:171:ALA:HB3	1.94	0.48
13:M2:201:CYC:HMD2	13:M2:201:CYC:HC	1.77	0.48
3:P2:150:THR:OG1	13:W2:201:CYC:HAA2	2.12	0.48
2:U2:54:ASP:HA	2:U2:57:THR:HG22	1.96	0.48
3:V2:43:ASN:HD22	13:V2:201:CYC:HBC1	1.76	0.48
2:H3:54:ASP:HA	2:H3:57:THR:HG22	1.96	0.48
3:M3:83:CYS:HB3	13:N3:301:CYC:CHD	2.43	0.48
1:A4:201:LEU:CG	7:V8:52:LYS:CE	2.68	0.48
3:I4:36:ASN:ND2	13:I4:202:CYC:CAD	2.77	0.48
13:M4:202:CYC:HBA2	13:M4:202:CYC:HMA3	1.95	0.48
2:W4:41:ALA:HA	2:W4:143:LEU:HD21	1.95	0.48
5:A5:63:LYS:CD	2:B5:117:ALA:CB	2.91	0.48
5:A5:219:PHE:O	7:q9:82:LEU:HD12	2.14	0.48
13:E5:201:CYC:HMA3	13:E5:201:CYC:HBA2	1.95	0.48
3:M5:114:LEU:HD11	13:M5:1002:CYC:HMB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R5:152:GLY:CA	13:R5:201:CYC:HMD1	2.38	0.48
13:V5:202:CYC:HMA3	13:V5:202:CYC:HBA2	1.95	0.48
3:Z5:34:GLU:HA	3:Z5:37:LYS:HD2	1.95	0.48
2:H6:32:TYR:CE2	3:I6:35:GLY:HA3	2.48	0.48
3:M6:111:LEU:HD22	3:M6:171:ALA:HB3	1.94	0.48
3:P6:111:LEU:HD22	3:P6:171:ALA:HB3	1.94	0.48
2:S6:29:ARG:HD3	2:S6:33:GLU:OE1	2.13	0.48
2:U6:54:ASP:HA	2:U6:57:THR:HG22	1.96	0.48
3:V6:58:ARG:CZ	2:W6:73:PRO:CG	2.91	0.48
3:X6:38:ARG:NH2	3:X6:101:GLY:HA2	2.29	0.48
2:Y6:88:ASP:CG	13:Y6:201:CYC:CHB	2.83	0.48
13:A7:301:CYC:CHA	3:C7:121:LEU:CD1	2.92	0.48
2:B7:34:ARG:HH12	13:K7:202:CYC:HBC2	1.78	0.48
3:G7:82:ALA:CB	13:G7:201:CYC:C2D	2.92	0.48
3:G7:149:ILE:HG21	13:G7:202:CYC:C4C	2.44	0.48
13:I7:202:CYC:HMA3	13:I7:202:CYC:HBA2	1.95	0.48
10:09:297:GLU:OE2	10:09:354:ARG:NH2	2.45	0.48
10:09:1047:ARG:NH2	10:09:1079:GLU:OE1	2.46	0.48
12:V9:2:THR:OG1	12:V9:3:VAL:N	2.46	0.48
13:V9:201:CYC:HMD1	13:V9:201:CYC:HC	1.77	0.48
7:o9:76:GLU:CG	5:AA:201:PHE:HB2	2.41	0.48
7:w9:66:VAL:HG13	5:AA:228:ASN:O	2.06	0.48
8:x9:84:ARG:NH1	13:x9:1001:CYC:CGA	2.73	0.48
5:AA:103:ASN:OD1	5:AA:104:ASN:N	2.46	0.48
3:GA:34:GLU:HA	3:GA:37:LYS:HD2	1.95	0.48
3:GA:67:LEU:HB3	3:GA:74:ALA:HB3	1.95	0.48
3:IA:154:CYS:SG	13:IA:202:CYC:HAB2	2.50	0.48
3:KA:150:THR:OG1	13:KA:201:CYC:HAA2	2.13	0.48
3:PA:58:ARG:CZ	2:QA:73:PRO:HB2	2.43	0.48
13:RA:201:CYC:HAB1	2:UA:34:ARG:NH1	2.20	0.48
3:XA:67:LEU:HB3	3:XA:74:ALA:HB3	1.95	0.48
13:XA:202:CYC:HBA2	13:XA:202:CYC:HMA3	1.95	0.48
1:A1:54:PHE:O	1:A1:55:SER:CB	2.61	0.48
1:A1:84:ARG:HH12	1:A1:141:ASP:HA	1.77	0.48
3:C1:111:LEU:HD21	3:C1:168:ALA:HA	1.96	0.48
13:G1:201:CYC:HBA2	13:G1:201:CYC:HMA3	1.95	0.48
3:K1:89:ILE:HG21	13:K1:201:CYC:HMC3	1.96	0.48
3:M1:65:PRO:O	3:M1:68:ILE:HG22	2.12	0.48
2:Y1:29:ARG:NH2	13:Z1:201:CYC:OC	2.33	0.48
5:A2:60:GLU:HG3	5:A2:97:LEU:HD11	1.96	0.48
2:B2:54:ASP:HA	2:B2:57:THR:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:107:ASP:OD1	3:C2:107:ASP:N	2.46	0.48
2:O2:74:GLN:OE1	2:O2:124:ASP:CB	2.58	0.48
2:Q2:26:GLN:HG2	2:U2:34:ARG:CD	2.18	0.48
2:Q2:54:ASP:HA	2:Q2:57:THR:HG22	1.96	0.48
2:Q2:91:HIS:HB2	13:Q2:201:CYC:CMB	2.43	0.48
3:T2:37:LYS:CB	3:T2:157:LEU:HD12	2.44	0.48
13:T2:201:CYC:HC	13:T2:201:CYC:HMD2	1.78	0.48
13:W2:203:CYC:CBB	3:X2:145:ASP:H	2.26	0.48
6:A3:65:GLN:HB3	6:A3:67:PHE:CE2	2.48	0.48
2:D3:123:PHE:CE2	13:D3:1001:CYC:HAA1	2.48	0.48
13:I3:202:CYC:NB	13:I3:202:CYC:CMA	2.72	0.48
1:A4:59:ILE:HD12	1:A4:59:ILE:O	2.13	0.48
3:C4:111:LEU:HD21	3:C4:168:ALA:HA	1.96	0.48
13:I4:202:CYC:HBA2	13:I4:202:CYC:HMA3	1.95	0.48
4:N4:68:THR:C	4:N4:70:ARG:N	2.70	0.48
4:N4:68:THR:HG23	4:N4:71:GLU:H	1.78	0.48
5:A5:25:GLN:HB2	5:A5:29:THR:HG21	1.95	0.48
5:A5:27:GLU:OE2	3:G5:2:THR:OG1	2.25	0.48
2:S5:32:TYR:CD1	3:T5:32:VAL:HA	2.48	0.48
3:T5:114:LEU:CD1	13:T5:201:CYC:CAC	2.89	0.48
2:W5:33:GLU:OE1	2:W5:33:GLU:HA	2.14	0.48
3:Z5:147:ASN:OD1	3:Z5:147:ASN:N	2.44	0.48
2:D6:27:SER:OG	2:H6:27:SER:HB2	2.13	0.48
13:G6:201:CYC:HMA3	13:G6:201:CYC:HBA2	1.95	0.48
2:L6:119:ILE:CD1	13:L6:201:CYC:CMA	2.91	0.48
13:M6:201:CYC:HBA2	13:M6:201:CYC:HMA3	1.95	0.48
3:V6:43:ASN:HD22	13:V6:201:CYC:HBC1	1.76	0.48
3:X6:145:ASP:H	13:X6:202:CYC:CBB	2.26	0.48
2:Y6:125:LEU:HD11	13:Y6:201:CYC:CHA	2.43	0.48
6:A7:71:GLN:CB	6:A7:77:ILE:CD1	2.88	0.48
3:C7:145:ASP:OD1	3:C7:146:PRO:HD2	2.13	0.48
2:D7:2:VAL:HG22	3:E7:7:THR:HG21	1.93	0.48
13:K7:201:CYC:HMA3	13:K7:201:CYC:HBA2	1.95	0.48
8:s8:78:ARG:HH12	10:19:947:VAL:N	2.12	0.48
10:09:1042:ARG:NH2	10:09:1111:ASP:OD2	2.46	0.48
10:19:500:GLN:HB2	10:19:665:TYR:OH	2.13	0.48
10:19:677:ARG:HB3	8:c9:106:ASP:OD1	2.13	0.48
7:Z9:16:ARG:NH2	7:Z9:17:TYR:O	2.46	0.48
8:a9:135:LYS:NZ	8:a9:155:ASP:OD2	2.43	0.48
7:i9:16:ARG:NH2	7:i9:17:TYR:O	2.46	0.48
7:w9:79:ALA:HB2	5:AA:220:ALA:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AA:53:ARG:C	5:AA:53:ARG:HD2	2.38	0.48
4:NA:40:TYR:HD2	4:NA:49:ILE:HD13	1.79	0.48
13:PA:202:CYC:HMA3	13:PA:202:CYC:HBA2	1.95	0.48
1:A1:168:ARG:CZ	3:G1:112:ASN:HB3	2.43	0.48
3:C1:83:CYS:O	3:C1:87:MET:HG2	2.14	0.48
2:F1:74:GLN:HA	13:F1:1001:CYC:HBD2	1.95	0.48
3:G1:43:ASN:HD21	2:L1:153:THR:HG21	1.78	0.48
13:I1:202:CYC:HBA2	13:I1:202:CYC:HMA3	1.95	0.48
13:Q1:202:CYC:HMC1	3:R1:143:ALA:O	2.13	0.48
3:T1:88:GLU:O	3:T1:92:ARG:N	2.43	0.48
3:C2:145:ASP:OD1	3:C2:146:PRO:HD2	2.13	0.48
2:D2:27:SER:OG	2:H2:27:SER:HB2	2.13	0.48
13:G2:201:CYC:HBA2	13:G2:201:CYC:HMA3	1.95	0.48
2:H2:32:TYR:HE2	3:I2:35:GLY:HA3	1.78	0.48
2:H2:54:ASP:HA	2:H2:57:THR:HG22	1.96	0.48
2:Q2:34:ARG:HD3	13:V2:201:CYC:C2C	2.44	0.48
3:R2:111:LEU:HD21	3:R2:168:ALA:HA	1.95	0.48
3:R2:111:LEU:HD22	3:R2:171:ALA:HB3	1.94	0.48
3:Z2:111:LEU:HD21	3:Z2:168:ALA:HA	1.95	0.48
6:A3:158:VAL:HG13	6:A3:159:PRO:HD2	1.93	0.48
3:C3:145:ASP:OD1	3:C3:146:PRO:HD2	2.13	0.48
2:D3:27:SER:OG	2:H3:27:SER:HB2	2.13	0.48
3:G3:82:ALA:CB	13:G3:201:CYC:C2D	2.92	0.48
13:M3:201:CYC:CMA	13:M3:201:CYC:HBA2	2.44	0.48
1:A4:198:PHE:CB	7:V8:79:ALA:O	2.62	0.48
2:B4:29:ARG:NH2	2:J4:34:ARG:HD3	2.28	0.48
4:N4:170:ARG:NH2	4:N4:216:ALA:H	2.12	0.48
13:Q4:202:CYC:HMD2	13:Q4:202:CYC:HC	1.77	0.48
2:Y4:143:LEU:HD23	2:Y4:151:ALA:HB3	1.96	0.48
5:A5:54:GLN:HE21	5:A5:162:TYR:HA	1.78	0.48
5:A5:246:ALA:HB3	7:A9:79:ALA:HB2	1.94	0.48
3:C5:149:ILE:CD1	3:C5:149:ILE:H	2.26	0.48
3:E5:34:GLU:HA	3:E5:37:LYS:HD2	1.95	0.48
3:M5:34:GLU:HA	3:M5:37:LYS:HD2	1.95	0.48
3:M5:121:LEU:HD23	13:M5:1002:CYC:CBD	2.37	0.48
3:P5:34:GLU:HA	3:P5:37:LYS:HD2	1.95	0.48
13:R5:201:CYC:HMD2	13:R5:201:CYC:HC	1.77	0.48
3:I6:111:LEU:HD21	3:I6:168:ALA:HA	1.95	0.48
13:I6:202:CYC:NB	13:I6:202:CYC:CMA	2.72	0.48
2:W6:74:GLN:HA	13:W6:202:CYC:CBD	2.40	0.48
2:W6:129:TRP:CE3	13:W6:202:CYC:HMC3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z6:111:LEU:HD21	3:Z6:168:ALA:HA	1.95	0.48
13:A7:301:CYC:O2D	3:C7:121:LEU:HD22	2.13	0.48
2:F7:26:GLN:OE1	2:L7:5:PRO:HG2	2.13	0.48
2:F7:34:ARG:NH1	2:F7:146:GLN:HG3	2.29	0.48
3:K7:43:ASN:CG	13:K7:202:CYC:HBC3	2.39	0.48
7:L8:126:VAL:HA	13:L8:1001:CYC:HBC2	1.96	0.48
7:Z8:126:VAL:HA	13:Z8:1001:CYC:HBC2	1.96	0.48
8:u8:112:GLY:O	10:19:1112:LEU:HD22	2.13	0.48
9:49:38:PHE:HA	9:49:41:GLN:OE1	2.14	0.48
7:G9:46:ASN:HD22	7:G9:140:LEU:HD21	1.77	0.48
7:d9:23:LEU:HD12	8:e9:39:VAL:HG13	1.94	0.48
5:AA:134:GLY:O	3:CA:92:ARG:NH1	2.47	0.48
3:CA:67:LEU:HB3	3:CA:74:ALA:HB3	1.95	0.48
3:IA:67:LEU:HB3	3:IA:74:ALA:HB3	1.95	0.48
13:IA:201:CYC:HAA1	4:NA:263:TYR:OH	2.13	0.48
13:MA:1003:CYC:CMA	13:MA:1003:CYC:HBA2	2.44	0.48
13:MA:1003:CYC:HBA2	13:MA:1003:CYC:HMA3	1.95	0.48
13:RA:201:CYC:HBA2	13:RA:201:CYC:HMA3	1.95	0.48
3:ZA:157:LEU:H	3:ZA:157:LEU:CD2	2.02	0.48
1:A1:68:LEU:HB3	1:A1:82:PHE:CE1	2.49	0.48
2:B1:37:ALA:O	2:B1:147:ALA:HA	2.14	0.48
3:C1:88:GLU:O	3:C1:92:ARG:N	2.43	0.48
3:M1:36:ASN:ND2	13:M1:202:CYC:HAD1	2.29	0.48
4:N1:68:THR:C	4:N1:70:ARG:N	2.70	0.48
4:N1:112:SER:HA	4:N1:115:VAL:CG1	2.41	0.48
2:O1:137:ILE:O	2:O1:141:HIS:HD2	1.96	0.48
3:T1:152:GLY:CA	13:T1:201:CYC:HMD2	2.39	0.48
3:T1:154:CYS:SG	3:T1:158:ILE:HD12	2.53	0.48
5:A2:197:THR:HG22	7:d9:75:GLN:CG	2.40	0.48
3:G2:111:LEU:HD22	3:G2:171:ALA:HB3	1.94	0.48
13:G2:201:CYC:CMA	13:G2:201:CYC:HBA2	2.44	0.48
3:I2:40:ASP:HB2	13:I2:202:CYC:HHD	1.95	0.48
3:K2:111:LEU:HD21	3:K2:168:ALA:HA	1.95	0.48
2:W2:31:ARG:NH1	2:W2:102:ALA:C	2.70	0.48
6:A3:57:HIS:ND1	3:G3:85:ARG:CB	2.62	0.48
13:A3:301:CYC:CHA	3:C3:121:LEU:CD1	2.92	0.48
2:B3:31:ARG:HH22	2:B3:35:ALA:HB1	1.78	0.48
13:K3:201:CYC:HBA2	13:K3:201:CYC:HMA3	1.95	0.48
1:A4:54:PHE:O	1:A4:55:SER:CB	2.61	0.48
1:A4:198:PHE:CE1	7:V8:82:LEU:C	2.91	0.48
3:P4:111:LEU:HD21	3:P4:168:ALA:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Q4:202:CYC:HBA2	13:Q4:202:CYC:HMA3	1.95	0.48
3:R4:78:ARG:NH2	3:R4:79:ARG:HD3	2.28	0.48
3:Z4:111:LEU:HD21	3:Z4:168:ALA:HA	1.96	0.48
13:I5:202:CYC:HMA3	13:I5:202:CYC:HBA2	1.95	0.48
3:X5:53:VAL:HG13	3:X5:87:MET:HB3	1.96	0.48
5:A6:230:GLY:HA2	7:I9:63:PRO:CB	2.43	0.48
13:C6:202:CYC:HMA3	13:C6:202:CYC:HBA2	1.95	0.48
13:E6:202:CYC:HBA2	13:E6:202:CYC:HMA3	1.95	0.48
2:F6:54:ASP:HA	2:F6:57:THR:HG22	1.96	0.48
3:V6:44:ARG:HH22	3:V6:149:ILE:CG1	2.19	0.48
3:V6:145:ASP:O	13:V6:201:CYC:HBB2	2.13	0.48
2:W6:31:ARG:C	2:W6:31:ARG:CD	2.87	0.48
3:X6:128:VAL:HG22	13:X6:201:CYC:CMC	2.44	0.48
2:H7:54:ASP:HA	2:H7:57:THR:HG22	1.96	0.48
2:L7:34:ARG:HH21	2:L7:150:GLU:HG2	1.77	0.48
7:A8:154:ASP:OD1	8:J9:47:ALA:HB2	2.14	0.48
7:H8:126:VAL:HA	13:H8:1001:CYC:HBC2	1.96	0.48
8:T8:82:CYS:SG	13:T8:1001:CYC:HAC1	2.51	0.48
9:i8:24:GLN:HG2	10:09:1087:ASP:CG	2.26	0.48
8:k8:11:ASN:CG	10:09:1121:SER:HA	2.39	0.48
8:k8:108:ARG:NH2	10:09:1029:THR:HB	2.18	0.48
7:n8:37:LEU:HD12	8:o8:29:LYS:HG3	1.95	0.48
7:t8:14:GLU:CG	10:19:973:LEU:HD11	2.44	0.48
10:09:522:ASP:O	10:09:523:GLN:HG2	2.11	0.48
10:19:487:ARG:CZ	8:a9:108:ARG:HH11	2.26	0.48
7:N9:3:ILE:HD11	7:R9:25:ARG:HH21	1.79	0.48
7:N9:48:GLU:CD	7:N9:48:GLU:H	2.21	0.48
11:Q9:62:GLU:HG2	11:Q9:129:ARG:HE	1.78	0.48
7:f9:10:ASN:HD21	12:m9:10:GLN:NE2	2.11	0.48
3:EA:34:GLU:HA	3:EA:37:LYS:HD2	1.95	0.48
3:KA:53:VAL:HG13	3:KA:87:MET:HB3	1.96	0.48
3:PA:53:VAL:HG13	3:PA:87:MET:HB3	1.96	0.48
3:RA:151:LYS:HE3	3:RA:151:LYS:CA	2.42	0.48
3:TA:67:LEU:HB3	3:TA:74:ALA:HB3	1.95	0.48
2:D1:153:THR:CG2	3:I1:43:ASN:HD21	2.27	0.48
3:E1:152:GLY:N	13:E1:202:CYC:CMD	2.77	0.48
3:G1:111:LEU:HD21	3:G1:168:ALA:HA	1.96	0.48
4:N1:173:ARG:NH2	4:N1:203:VAL:O	2.47	0.48
2:U1:119:ILE:CD1	13:U1:1001:CYC:HMA1	2.44	0.48
3:X1:111:LEU:HD21	3:X1:168:ALA:HA	1.96	0.48
13:X1:202:CYC:HMA3	13:X1:202:CYC:HBA2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J2:88:ASP:OD1	13:J2:1001:CYC:CHB	2.62	0.48
3:P2:111:LEU:HD21	3:P2:168:ALA:HA	1.95	0.48
13:T2:201:CYC:HMA3	13:T2:201:CYC:HBA2	1.96	0.48
3:V2:114:LEU:HD13	13:V2:202:CYC:HAC2	1.95	0.48
3:X2:73:ASN:HD22	3:X2:123:THR:CA	2.22	0.48
6:A3:104:ARG:NE	6:A3:108:ILE:CG1	2.73	0.48
3:G3:111:LEU:HD21	3:G3:168:ALA:HA	1.95	0.48
3:I3:40:ASP:HB2	13:I3:202:CYC:HHD	1.95	0.48
13:M3:201:CYC:HBA2	13:M3:201:CYC:HMA3	1.95	0.48
1:A4:67:ASN:HD21	3:K4:92:ARG:HH12	0.60	0.48
13:K4:201:CYC:HMD2	13:K4:201:CYC:HC	1.77	0.48
3:R4:80:MET:CE	2:S4:123:PHE:HE2	2.27	0.48
3:V4:86:ASP:O	3:V4:89:ILE:N	2.40	0.48
3:X4:111:LEU:HD21	3:X4:168:ALA:HA	1.96	0.48
3:G5:53:VAL:HG13	3:G5:87:MET:HB3	1.96	0.48
3:M5:67:LEU:HB3	3:M5:74:ALA:HB3	1.95	0.48
3:R5:34:GLU:HA	3:R5:37:LYS:HD2	1.95	0.48
3:R5:151:LYS:HE3	3:R5:151:LYS:CA	2.42	0.48
5:A6:241:ILE:CG2	7:C8:82:LEU:HD12	2.44	0.48
3:G6:152:GLY:CA	13:G6:201:CYC:HMD1	2.39	0.48
2:H6:74:GLN:OE1	2:H6:124:ASP:CB	2.61	0.48
2:J6:91:HIS:HB2	13:J6:1001:CYC:HMB2	1.95	0.48
13:K6:202:CYC:HMA3	13:K6:202:CYC:HBA2	1.95	0.48
4:N6:165:PHE:HA	4:N6:168:ILE:HD12	1.94	0.48
4:N6:172:TYR:HA	4:N6:182:GLN:NE2	2.28	0.48
2:W6:54:ASP:HA	2:W6:57:THR:HG22	1.96	0.48
2:F7:14:ASP:HA	3:G7:92:ARG:HH21	1.79	0.48
2:F7:54:ASP:HA	2:F7:57:THR:HG22	1.96	0.48
2:J7:29:ARG:N	3:K7:39:LEU:HD11	2.28	0.48
13:M7:201:CYC:CMA	13:M7:201:CYC:HBA2	2.44	0.48
7:J8:126:VAL:HA	13:J8:1001:CYC:HBC2	1.96	0.48
9:b8:24:GLN:HA	9:b8:24:GLN:OE1	2.13	0.48
7:w9:83:ARG:CB	5:AA:219:PHE:CD1	2.96	0.48
5:AA:61:ILE:O	5:AA:66:ARG:HG3	2.13	0.48
3:CA:34:GLU:HA	3:CA:37:LYS:HD2	1.95	0.48
3:EA:53:VAL:HG13	3:EA:87:MET:HB3	1.96	0.48
13:GA:1002:CYC:HC	13:GA:1002:CYC:HMD2	1.77	0.48
3:MA:155:SER:HA	3:MA:158:ILE:HB	1.94	0.48
3:TA:144:ASN:O	13:TA:202:CYC:CMC	2.60	0.48
13:TA:202:CYC:HBA2	13:TA:202:CYC:HMA3	1.95	0.48
3:ZA:34:GLU:HA	3:ZA:37:LYS:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T1:79:ARG:HA	13:T1:202:CYC:HAA1	1.96	0.48
2:W1:41:ALA:HA	2:W1:143:LEU:HD21	1.95	0.48
3:E2:111:LEU:HD21	3:E2:168:ALA:HA	1.95	0.48
13:I2:202:CYC:HBA2	13:I2:202:CYC:HMA3	1.95	0.48
13:K2:201:CYC:CMA	13:K2:201:CYC:HBA2	2.44	0.48
3:V2:145:ASP:O	13:V2:201:CYC:HBB2	2.13	0.48
2:W2:31:ARG:C	2:W2:31:ARG:CD	2.87	0.48
2:W2:123:PHE:CE2	13:W2:202:CYC:HAA2	2.46	0.48
2:W2:129:TRP:CE3	13:W2:202:CYC:HMC3	2.49	0.48
13:G3:202:CYC:CMA	13:G3:202:CYC:HBA2	2.44	0.48
2:L3:73:PRO:O	13:L3:201:CYC:CBD	2.59	0.48
3:I4:88:GLU:O	3:I4:92:ARG:N	2.43	0.48
3:T4:111:LEU:HD21	3:T4:168:ALA:HA	1.96	0.48
3:V4:79:ARG:HB3	13:V4:202:CYC:CMA	2.43	0.48
3:V4:88:GLU:O	3:V4:92:ARG:N	2.43	0.48
5:A5:39:SER:OG	3:M5:2:THR:CA	2.54	0.48
3:C5:78:ARG:O	3:C5:78:ARG:HD2	2.14	0.48
2:H5:36:ALA:O	2:H5:40:GLU:OE1	2.32	0.48
2:Q5:25:LEU:O	3:R5:39:LEU:HD21	2.14	0.48
2:U5:29:ARG:HD3	3:V5:39:LEU:HD22	1.96	0.48
3:V5:53:VAL:HG13	3:V5:87:MET:HB3	1.96	0.48
2:Y5:41:ALA:HB2	2:Y5:147:ALA:HB1	1.96	0.48
3:Z5:150:THR:OG1	13:Z5:202:CYC:C2A	2.61	0.48
2:D6:123:PHE:CE2	13:D6:1001:CYC:HAA1	2.48	0.48
2:F6:119:ILE:HD11	13:F6:1001:CYC:C3A	2.43	0.48
4:N6:6:ALA:CB	3:T6:121:LEU:HA	2.44	0.48
2:W6:88:ASP:OD2	13:W6:202:CYC:NA	2.47	0.48
2:H7:31:ARG:NH2	3:I7:6:PHE:CE2	2.82	0.48
2:L7:54:ASP:HA	2:L7:57:THR:HG22	1.96	0.48
8:P8:82:CYS:SG	13:P8:1001:CYC:HAC1	2.51	0.48
8:R8:108:ARG:HH11	10:09:732:VAL:HG12	1.78	0.48
7:l8:126:VAL:HA	13:l8:1001:CYC:HBC2	1.96	0.48
7:n8:14:GLU:HG2	10:09:973:LEU:CD2	2.44	0.48
7:p8:114:GLU:OE1	10:19:990:VAL:HG21	2.14	0.48
7:p8:126:VAL:HA	13:p8:1001:CYC:HBC2	1.96	0.48
10:19:258:GLN:NE2	11:g9:87:ASP:OD1	2.47	0.48
10:19:765:GLU:HA	7:A9:15:ALA:HB2	1.96	0.48
7:K9:16:ARG:NH2	7:K9:17:TYR:O	2.46	0.48
7:N9:10:ASN:HD21	7:R9:10:ASN:HD21	1.60	0.48
5:AA:17:VAL:HG13	3:EA:85:ARG:NE	2.28	0.48
13:AA:301:CYC:HMB3	3:CA:114:LEU:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DA:41:ALA:HB2	2:DA:147:ALA:HB1	1.96	0.48
2:FA:41:ALA:HB2	2:FA:147:ALA:HB1	1.96	0.48
3:MA:114:LEU:HD11	13:MA:1002:CYC:HMB3	1.95	0.48
3:MA:121:LEU:HD23	13:MA:1002:CYC:CBD	2.37	0.48
2:WA:34:ARG:HH12	2:WA:37:ALA:CB	2.27	0.48
3:XA:50:SER:O	3:XA:54:THR:OG1	2.32	0.48
3:E1:111:LEU:HD21	3:E1:168:ALA:HA	1.96	0.48
3:I1:36:ASN:ND2	13:I1:202:CYC:CAD	2.77	0.48
3:P1:36:ASN:OD1	13:P1:202:CYC:C1D	2.62	0.48
3:T1:76:THR:HG21	3:T1:79:ARG:NE	2.27	0.48
3:X1:149:ILE:HD12	13:X1:202:CYC:C1B	2.44	0.48
2:B2:31:ARG:HH22	2:B2:35:ALA:HB1	1.78	0.48
2:F2:14:ASP:HA	3:G2:92:ARG:HH21	1.79	0.48
3:I2:111:LEU:HD22	3:I2:171:ALA:HB3	1.94	0.48
2:J2:29:ARG:N	3:K2:39:LEU:HD11	2.28	0.48
13:W2:201:CYC:HBA2	13:W2:201:CYC:HMA3	1.95	0.48
6:A3:60:ILE:HG21	2:B3:115:GLY:CA	2.43	0.48
13:G3:202:CYC:HMD2	13:G3:202:CYC:HC	1.77	0.48
3:K3:111:LEU:HD21	3:K3:168:ALA:HA	1.95	0.48
3:E4:111:LEU:HD21	3:E4:168:ALA:HA	1.96	0.48
3:G4:43:ASN:HD21	2:L4:153:THR:HG21	1.78	0.48
3:G4:88:GLU:O	3:G4:92:ARG:N	2.43	0.48
13:K4:201:CYC:CMA	13:K4:201:CYC:HBA2	2.44	0.48
2:L4:150:GLU:OE2	2:L4:150:GLU:HA	2.14	0.48
4:N4:46:ASN:ND2	4:N4:175:TYR:O	2.46	0.48
3:P4:36:ASN:OD1	13:P4:202:CYC:C1D	2.62	0.48
2:W4:74:GLN:HA	13:W4:1001:CYC:CBD	2.44	0.48
3:X4:36:ASN:HD21	13:X4:202:CYC:HAD1	1.79	0.48
5:A5:231:ASN:CG	7:A9:68:PRO:HD2	2.38	0.48
3:E5:53:VAL:HG13	3:E5:87:MET:HB3	1.96	0.48
3:G5:67:LEU:HB3	3:G5:74:ALA:HB3	1.95	0.48
3:G5:149:ILE:CD1	3:G5:149:ILE:H	2.27	0.48
2:L5:34:ARG:NH2	2:L5:150:GLU:CD	2.72	0.48
3:P5:67:LEU:HB3	3:P5:74:ALA:HB3	1.95	0.48
13:R5:201:CYC:HBD1	13:R5:201:CYC:CHA	2.29	0.48
5:A6:11:SER:H	5:A6:121:TYR:HB3	1.79	0.48
2:F6:26:GLN:OE1	2:L6:5:PRO:HG2	2.13	0.48
3:I6:154:CYS:O	3:I6:158:ILE:HG13	2.14	0.48
3:K6:43:ASN:CG	13:K6:202:CYC:HBC3	2.39	0.48
3:K6:111:LEU:HD22	3:K6:171:ALA:HB3	1.94	0.48
2:Q6:54:ASP:HA	2:Q6:57:THR:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z6:156:GLN:O	3:Z6:160:GLU:HG2	2.14	0.48
6:A7:6:LEU:HD22	13:A7:301:CYC:O1D	2.14	0.48
6:A7:131:ILE:HG12	6:A7:139:PHE:CG	2.49	0.48
3:C7:152:GLY:N	13:C7:201:CYC:HMD2	2.29	0.48
13:K7:201:CYC:CMA	13:K7:201:CYC:HBA2	2.44	0.48
13:K7:202:CYC:HBA2	13:K7:202:CYC:HMA3	1.95	0.48
3:M7:44:ARG:CZ	3:M7:149:ILE:HG13	2.44	0.48
7:A8:107:ILE:HD11	9:G8:65:ALA:HB2	1.96	0.48
13:H8:1001:CYC:O1D	8:M8:63:TYR:OH	2.14	0.48
7:S8:126:VAL:HA	13:S8:1001:CYC:HBC2	1.96	0.48
7:X8:126:VAL:HA	13:X8:1001:CYC:HBC2	1.96	0.48
10:09:160:ARG:HD3	11:Q9:68:ARG:HH22	1.79	0.48
10:09:923:MET:HB3	10:09:932:GLU:HG3	1.95	0.48
10:19:815:LEU:O	10:19:863:ARG:NH2	2.47	0.48
7:d9:16:ARG:NH2	7:d9:17:TYR:O	2.46	0.48
12:m9:4:ILE:HB	8:n9:4:ASP:OD2	2.14	0.48
12:m9:33:GLY:HA2	12:m9:36:ARG:HD2	1.96	0.48
8:p9:78:ARG:HB3	13:p9:1001:CYC:HMD1	1.96	0.48
2:QA:25:LEU:O	3:RA:39:LEU:HD21	2.14	0.48
3:RA:44:ARG:NH1	3:RA:145:ASP:CG	2.44	0.48
3:VA:48:ASN:HD22	3:VA:142:ILE:HG21	1.79	0.48
1:A1:172:LEU:CD2	1:A1:172:LEU:C	2.85	0.47
2:J1:34:ARG:HH11	2:J1:150:GLU:HB2	1.71	0.47
5:A2:19:SER:HB2	5:A2:165:LYS:NZ	2.28	0.47
5:A2:246:ALA:HB1	7:J8:79:ALA:HB3	1.85	0.47
13:E2:202:CYC:HBD1	13:E2:202:CYC:CHA	2.28	0.47
2:F2:34:ARG:NH1	2:F2:146:GLN:HG3	2.29	0.47
2:J2:85:CYS:CA	13:J2:1001:CYC:HAC2	2.41	0.47
3:V2:58:ARG:HH12	13:W2:202:CYC:CGD	2.27	0.47
3:Z2:156:GLN:O	3:Z2:160:GLU:HG2	2.14	0.47
6:A3:6:LEU:HD22	13:A3:301:CYC:O1D	2.14	0.47
6:A3:57:HIS:CE1	3:G3:86:ASP:N	2.69	0.47
13:A3:301:CYC:O2D	3:C3:121:LEU:HD22	2.13	0.47
3:E3:44:ARG:HH22	3:E3:149:ILE:HD12	1.66	0.47
3:I3:154:CYS:O	3:I3:158:ILE:HG13	2.14	0.47
13:K3:202:CYC:CMA	13:K3:202:CYC:HBA2	2.44	0.47
2:B4:37:ALA:O	2:B4:147:ALA:HA	2.14	0.47
3:E4:152:GLY:N	13:E4:202:CYC:CMD	2.77	0.47
3:M4:152:GLY:N	13:M4:202:CYC:OB	2.36	0.47
13:Q4:202:CYC:CMA	13:Q4:202:CYC:HBA2	2.44	0.47
13:T4:201:CYC:CMA	13:T4:201:CYC:HBA2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:V4:201:CYC:HMA3	13:V4:201:CYC:HBA2	1.95	0.47
3:Z4:64:GLN:HE22	3:Z4:127:SER:HA	1.78	0.47
5:A5:198:LEU:CD2	7:u9:79:ALA:HB1	2.43	0.47
13:A5:301:CYC:HMB3	3:C5:114:LEU:HD11	1.96	0.47
3:C5:53:VAL:HG13	3:C5:87:MET:HB3	1.96	0.47
13:E5:201:CYC:HBD1	13:E5:201:CYC:CHA	2.28	0.47
13:G5:201:CYC:CMA	13:G5:201:CYC:HBA2	2.44	0.47
3:I5:67:LEU:HB3	3:I5:74:ALA:HB3	1.95	0.47
3:M5:50:SER:O	3:M5:54:THR:OG1	2.32	0.47
13:M5:1003:CYC:HMA3	13:M5:1003:CYC:HBA2	1.95	0.47
13:P5:202:CYC:HMA3	13:P5:202:CYC:HBA2	1.95	0.47
13:R5:201:CYC:CMA	13:R5:201:CYC:HBA2	2.44	0.47
3:T5:67:LEU:HB3	3:T5:74:ALA:HB3	1.95	0.47
3:X5:68:ILE:CD1	13:Y5:201:CYC:O2A	2.62	0.47
13:X5:202:CYC:HBA2	13:X5:202:CYC:HMA3	1.95	0.47
3:Z5:67:LEU:HB3	3:Z5:74:ALA:HB3	1.95	0.47
2:F6:14:ASP:HA	3:G6:92:ARG:HH21	1.79	0.47
3:G6:38:ARG:HH12	3:G6:101:GLY:CA	2.26	0.47
13:G6:201:CYC:CMA	13:G6:201:CYC:HBA2	2.44	0.47
3:R6:40:ASP:OD2	3:R6:149:ILE:HD13	2.14	0.47
2:S6:31:ARG:CZ	2:S6:102:ALA:O	2.63	0.47
2:U6:29:ARG:HB2	13:V6:201:CYC:OC	2.13	0.47
13:X6:202:CYC:CMA	13:X6:202:CYC:HBA2	2.45	0.47
3:Z6:82:ALA:O	3:Z6:85:ARG:HG2	2.14	0.47
3:Z6:87:MET:CE	13:Z6:202:CYC:HBC2	2.20	0.47
13:G7:202:CYC:CMA	13:G7:202:CYC:HBA2	2.44	0.47
2:J7:88:ASP:OD1	13:J7:1001:CYC:CHB	2.62	0.47
2:J7:91:HIS:HB2	13:J7:1001:CYC:HMB2	1.95	0.47
13:K7:202:CYC:CMA	13:K7:202:CYC:HBA2	2.44	0.47
3:M7:83:CYS:HB3	13:N7:301:CYC:CHD	2.43	0.47
13:T8:1001:CYC:HBB2	9:U8:42:GLN:HE22	1.77	0.47
7:r8:126:VAL:HA	13:r8:1001:CYC:HBC2	1.96	0.47
10:09:302:ARG:NH1	8:M9:87:ASP:OD2	2.47	0.47
10:19:11:VAL:O	10:19:421:GLN:NE2	2.47	0.47
10:19:618:ARG:NH1	10:19:650:GLU:OE1	2.43	0.47
7:N9:16:ARG:NH2	7:N9:17:TYR:O	2.46	0.47
7:P9:16:ARG:NH2	7:P9:17:TYR:O	2.46	0.47
8:U9:78:ARG:HB3	13:U9:1001:CYC:HMD1	1.96	0.47
7:f9:16:ARG:NH2	7:f9:17:TYR:O	2.46	0.47
7:k9:46:ASN:HD22	7:k9:140:LEU:HD21	1.77	0.47
5:AA:25:GLN:HB2	5:AA:29:THR:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AA:301:CYC:HBB1	3:CA:93:TYR:CE2	2.49	0.47
2:HA:36:ALA:O	2:HA:40:GLU:OE1	2.32	0.47
3:PA:67:LEU:HB3	3:PA:74:ALA:HB3	1.95	0.47
2:UA:29:ARG:HD3	3:VA:39:LEU:HD22	1.96	0.47
3:VA:34:GLU:HA	3:VA:37:LYS:HD2	1.95	0.47
13:VA:202:CYC:CMA	13:VA:202:CYC:HBA2	2.45	0.47
2:WA:32:TYR:CD1	3:XA:32:VAL:HA	2.49	0.47
3:XA:68:ILE:CD1	13:YA:201:CYC:O2A	2.62	0.47
1:A1:134:ASN:HB3	1:A1:138:GLY:HA3	1.97	0.47
1:A1:207:ILE:CG2	7:c8:59:PHE:CG	2.97	0.47
2:F1:138:LYS:O	2:F1:141:HIS:HD2	1.95	0.47
13:G1:201:CYC:CMA	13:G1:201:CYC:HBA2	2.44	0.47
3:K1:84:LEU:HD12	3:K1:84:LEU:O	2.14	0.47
3:M1:86:ASP:O	3:M1:89:ILE:N	2.42	0.47
3:T1:111:LEU:HD21	3:T1:168:ALA:HA	1.96	0.47
5:A2:105:TYR:CE2	3:C2:113:GLY:HA3	2.50	0.47
2:B2:34:ARG:HH12	13:K2:202:CYC:HBC2	1.78	0.47
2:D2:29:ARG:CD	2:D2:29:ARG:C	2.88	0.47
13:E2:202:CYC:CMA	13:E2:202:CYC:HBA2	2.44	0.47
2:F2:54:ASP:HA	2:F2:57:THR:HG22	1.96	0.47
3:M2:83:CYS:HB3	13:N2:301:CYC:CHD	2.43	0.47
4:N2:68:THR:OG1	4:N2:71:GLU:OE1	2.31	0.47
4:N2:192:ARG:NH1	3:R2:116:GLU:OE2	2.48	0.47
3:R2:40:ASP:OD2	3:R2:149:ILE:HD13	2.14	0.47
13:T2:201:CYC:CMA	13:T2:201:CYC:HBA2	2.45	0.47
3:X2:111:LEU:HD21	3:X2:168:ALA:HA	1.95	0.47
3:Z2:82:ALA:O	3:Z2:85:ARG:HG2	2.14	0.47
3:C3:152:GLY:N	13:C3:201:CYC:HMD2	2.29	0.47
2:J3:88:ASP:OD1	13:J3:1001:CYC:CHB	2.62	0.47
3:K3:82:ALA:HB1	13:K3:201:CYC:O2A	2.15	0.47
1:A4:104:ARG:HH22	1:A4:175:PRO:CG	2.22	0.47
1:A4:207:ILE:CD1	7:V8:59:PHE:CD2	2.94	0.47
2:B4:23:THR:HG23	2:J4:104:GLY:HA3	1.95	0.47
3:C4:18:GLU:OE2	7:V8:47:ARG:NH2	2.47	0.47
3:E4:76:THR:HG23	3:E4:79:ARG:HG3	1.97	0.47
3:E4:128:VAL:CG2	13:E4:201:CYC:H3C	2.43	0.47
3:G4:111:LEU:HD21	3:G4:168:ALA:HA	1.96	0.47
13:K4:202:CYC:CMA	13:K4:202:CYC:HBA2	2.44	0.47
4:N4:167:ARG:HB3	4:N4:190:LEU:HD13	1.95	0.47
3:V4:37:LYS:HE3	13:V4:201:CYC:O2A	2.14	0.47
3:X4:88:GLU:O	3:X4:92:ARG:N	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X4:149:ILE:HD12	13:X4:202:CYC:C1B	2.44	0.47
5:A5:134:GLY:O	3:C5:92:ARG:NH1	2.47	0.47
5:A5:172:HIS:HA	5:A5:175:VAL:HG12	1.95	0.47
5:A5:239:PHE:CZ	7:A9:56:ASP:OD1	2.67	0.47
3:E5:50:SER:O	3:E5:54:THR:OG1	2.32	0.47
13:E5:201:CYC:CMA	13:E5:201:CYC:HBA2	2.45	0.47
2:O5:35:ALA:O	2:O5:39:LEU:HG	2.14	0.47
2:O5:41:ALA:HB2	2:O5:147:ALA:HB1	1.96	0.47
13:R5:201:CYC:CAB	2:U5:34:ARG:NH1	2.75	0.47
2:W5:32:TYR:CD1	3:X5:32:VAL:HA	2.49	0.47
5:A6:195:ARG:HH12	3:G6:66:GLN:NE2	2.09	0.47
3:C6:157:LEU:O	3:C6:161:VAL:N	2.43	0.47
3:G6:149:ILE:HG21	13:G6:201:CYC:C4C	2.44	0.47
2:H6:32:TYR:HE2	3:I6:35:GLY:HA3	1.78	0.47
2:Q6:34:ARG:HD3	13:V6:201:CYC:C2C	2.44	0.47
6:A7:9:ALA:O	6:A7:120:ASN:CB	2.62	0.47
6:A7:158:VAL:HG13	6:A7:159:PRO:HD2	1.93	0.47
2:B7:61:TYR:OH	2:B7:85:CYS:SG	2.71	0.47
3:G7:82:ALA:CB	13:G7:201:CYC:CMD	2.84	0.47
7:L8:49:ARG:NH1	8:W9:140:SER:OG	2.47	0.47
7:Z8:59:PHE:HB2	7:I9:73:TYR:CE1	2.50	0.47
8:d8:92:TYR:OH	10:09:998:GLU:OE2	2.28	0.47
8:f8:109:VAL:CG1	13:f8:1001:CYC:CAB	2.73	0.47
7:g8:126:VAL:HA	13:g8:1001:CYC:HBC2	1.96	0.47
10:09:761:ILE:HD13	10:09:792:LEU:HD13	1.95	0.47
9:29:38:PHE:HA	9:29:41:GLN:OE1	2.14	0.47
9:49:32:VAL:HG21	9:49:40:GLU:HG3	1.96	0.47
8:e9:30:ALA:O	8:e9:34:THR:OG1	2.33	0.47
7:o9:23:LEU:HB3	8:p9:39:VAL:HG13	1.96	0.47
7:u9:16:ARG:NH2	7:u9:17:TYR:O	2.46	0.47
2:FA:94:ARG:HH21	3:GA:14:ASP:HA	1.79	0.47
3:KA:34:GLU:HA	3:KA:37:LYS:HD2	1.95	0.47
2:LA:34:ARG:NH2	2:LA:150:GLU:CD	2.72	0.47
3:RA:50:SER:O	3:RA:54:THR:OG1	2.32	0.47
3:VA:53:VAL:HG13	3:VA:87:MET:HB3	1.96	0.47
13:VA:202:CYC:HBD1	13:VA:202:CYC:CHA	2.29	0.47
2:WA:33:GLU:HA	2:WA:33:GLU:OE1	2.14	0.47
3:XA:53:VAL:HG13	3:XA:87:MET:HB3	1.96	0.47
13:C1:302:CYC:CMA	13:C1:302:CYC:HBA2	2.44	0.47
2:H1:119:ILE:CD1	13:H1:1001:CYC:CMA	2.89	0.47
3:I1:111:LEU:HD21	3:I1:168:ALA:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:K1:202:CYC:CMA	13:K1:202:CYC:HBA2	2.44	0.47
4:N1:109:TYR:HB3	4:N1:161:LYS:HE2	1.95	0.47
4:N1:157:GLN:N	4:N1:157:GLN:CD	2.72	0.47
13:Q1:202:CYC:HMC2	3:R1:144:ASN:O	2.15	0.47
2:S1:88:ASP:OD1	13:S1:1001:CYC:HHB	2.15	0.47
3:T1:128:VAL:HA	13:T1:202:CYC:HAB1	1.97	0.47
3:X1:128:VAL:CG2	13:X1:201:CYC:CMC	2.87	0.47
13:Z1:201:CYC:CMA	13:Z1:201:CYC:HBA2	2.45	0.47
5:A2:183:PHE:HE1	3:C2:108:ASP:OD1	1.98	0.47
5:A2:195:ARG:HH22	3:G2:66:GLN:HE22	1.57	0.47
2:B2:123:PHE:HE2	13:B2:1001:CYC:HAA1	1.74	0.47
3:C2:114:LEU:CD2	3:C2:172:VAL:HG22	2.41	0.47
3:G2:149:ILE:HG21	13:G2:201:CYC:C4C	2.44	0.47
4:N2:6:ALA:CB	3:T2:121:LEU:HA	2.44	0.47
2:Q2:88:ASP:OD2	13:Q2:201:CYC:HHB	2.12	0.47
13:V2:201:CYC:CMA	13:V2:201:CYC:HBA2	2.44	0.47
13:V2:201:CYC:HBA2	13:V2:201:CYC:HMA3	1.95	0.47
2:W2:54:ASP:HA	2:W2:57:THR:HG22	1.96	0.47
13:W2:201:CYC:CMA	13:W2:201:CYC:HBA2	2.45	0.47
6:A3:131:ILE:HG12	6:A3:139:PHE:CG	2.49	0.47
2:B3:34:ARG:HH12	13:K3:202:CYC:HBC2	1.78	0.47
13:E3:202:CYC:CMA	13:E3:202:CYC:HBA2	2.44	0.47
2:F3:54:ASP:HA	2:F3:57:THR:HG22	1.96	0.47
3:I3:38:ARG:O	3:I3:42:VAL:HB	2.14	0.47
2:J3:54:ASP:HA	2:J3:57:THR:HG22	1.96	0.47
2:J3:85:CYS:CA	13:J3:1001:CYC:HAC2	2.42	0.47
1:A4:198:PHE:HD1	7:V8:82:LEU:HB2	1.77	0.47
3:M4:111:LEU:HD21	3:M4:168:ALA:HA	1.96	0.47
3:M4:118:TYR:HE2	3:M4:128:VAL:HG21	1.76	0.47
3:V4:111:LEU:HD21	3:V4:168:ALA:HA	1.96	0.47
2:W4:123:PHE:CD2	13:W4:1001:CYC:CAA	2.97	0.47
3:C5:34:GLU:HA	3:C5:37:LYS:HD2	1.95	0.47
3:I5:146:PRO:HB3	3:I5:151:LYS:NZ	2.29	0.47
2:Q5:41:ALA:HB2	2:Q5:147:ALA:HB1	1.96	0.47
13:T5:202:CYC:CMA	13:T5:202:CYC:HBA2	2.45	0.47
3:V5:50:SER:O	3:V5:54:THR:OG1	2.32	0.47
3:V5:89:ILE:CG1	13:V5:201:CYC:HMC3	2.28	0.47
2:W5:41:ALA:HB2	2:W5:147:ALA:HB1	1.97	0.47
5:A6:233:ALA:HB3	7:Z8:68:PRO:HG2	1.94	0.47
2:D6:85:CYS:CA	13:D6:1001:CYC:HAC2	2.40	0.47
2:F6:3:LYS:HG2	2:L6:23:THR:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R6:38:ARG:O	3:R6:42:VAL:HG23	2.15	0.47
13:U6:201:CYC:HBA2	13:U6:201:CYC:HMA3	1.95	0.47
2:Y6:54:ASP:HA	2:Y6:57:THR:HG22	1.96	0.47
6:A7:16:ARG:HG2	6:A7:16:ARG:O	2.15	0.47
2:D7:31:ARG:HD2	2:D7:35:ALA:HB2	1.97	0.47
9:G8:36:ASN:ND2	10:09:586:ARG:CZ	2.71	0.47
7:S8:44:THR:HG22	8:T8:19:TYR:HB3	1.95	0.47
9:i8:31:LEU:HD12	10:09:1002:LYS:NZ	2.30	0.47
10:09:17:TYR:HB2	10:09:180:ILE:HB	1.95	0.47
10:09:722:GLN:OE1	10:09:862:ARG:NH2	2.47	0.47
13:19:1203:CYC:HMD1	8:Y9:78:ARG:HB3	1.96	0.47
8:t9:30:ALA:O	8:t9:34:THR:OG1	2.32	0.47
8:z9:30:ALA:O	8:z9:34:THR:OG1	2.32	0.47
2:BA:41:ALA:HB2	2:BA:147:ALA:HB1	1.96	0.47
3:MA:34:GLU:HA	3:MA:37:LYS:HD2	1.95	0.47
2:OA:35:ALA:O	2:OA:39:LEU:HG	2.14	0.47
13:PA:202:CYC:CMA	13:PA:202:CYC:HBA2	2.44	0.47
3:VA:44:ARG:HH12	3:VA:149:ILE:HD11	1.78	0.47
13:VA:202:CYC:HBA2	13:VA:202:CYC:HMA3	1.95	0.47
3:E1:151:LYS:NZ	2:Q2:40:GLU:HG2	2.30	0.47
3:R1:80:MET:CE	2:S1:123:PHE:HE2	2.27	0.47
2:Y1:143:LEU:HD23	2:Y1:151:ALA:HB3	1.96	0.47
3:Z1:64:GLN:HE22	3:Z1:127:SER:HA	1.78	0.47
5:A2:131:ILE:CB	13:C2:201:CYC:O1A	2.62	0.47
5:A2:249:ASN:ND2	8:I8:68:ARG:NH1	2.60	0.47
3:I2:154:CYS:O	3:I2:158:ILE:HG13	2.14	0.47
2:J2:54:ASP:HA	2:J2:57:THR:HG22	1.96	0.47
2:L2:54:ASP:HA	2:L2:57:THR:HG22	1.96	0.47
13:M2:201:CYC:CMA	13:M2:201:CYC:HBA2	2.44	0.47
2:W2:29:ARG:NH1	13:W2:203:CYC:HMD2	2.27	0.47
13:W2:203:CYC:CMA	13:W2:203:CYC:HBA2	2.45	0.47
3:X2:83:CYS:CB	13:X2:201:CYC:HAC1	2.41	0.47
3:X2:128:VAL:HG22	13:X2:201:CYC:CMC	2.44	0.47
13:Z2:201:CYC:CMA	13:Z2:201:CYC:HBA2	2.45	0.47
13:A3:301:CYC:HBC1	3:C3:87:MET:HE2	1.79	0.47
2:D3:23:THR:HG23	2:D3:24:GLU:CD	2.36	0.47
13:K3:201:CYC:CMA	13:K3:201:CYC:HBA2	2.44	0.47
13:M3:201:CYC:HBD1	13:M3:201:CYC:CHA	2.28	0.47
1:A4:195:ILE:HG23	7:V8:80:THR:HG22	1.58	0.47
2:D4:29:ARG:HH22	2:H4:33:GLU:HG2	1.80	0.47
13:E4:202:CYC:CMA	13:E4:202:CYC:HBA2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P4:76:THR:HG22	3:P4:79:ARG:CG	2.44	0.47
13:Q4:202:CYC:HMC1	3:R4:143:ALA:O	2.13	0.47
13:Q4:202:CYC:HMC2	3:R4:144:ASN:O	2.15	0.47
2:B5:41:ALA:HB2	2:B5:147:ALA:HB1	1.96	0.47
3:V5:40:ASP:OD1	13:V5:202:CYC:HHB	2.15	0.47
13:V5:202:CYC:CMA	13:V5:202:CYC:HBA2	2.45	0.47
3:X5:50:SER:O	3:X5:54:THR:OG1	2.32	0.47
13:X5:202:CYC:CMA	13:X5:202:CYC:HBA2	2.45	0.47
2:Y5:31:ARG:HH21	2:Y5:31:ARG:CG	2.27	0.47
3:Z5:50:SER:O	3:Z5:54:THR:OG1	2.32	0.47
13:Z5:202:CYC:CMA	13:Z5:202:CYC:HBA2	2.45	0.47
5:A6:39:SER:OG	3:M6:2:THR:N	2.44	0.47
2:H6:54:ASP:HA	2:H6:57:THR:HG22	1.96	0.47
3:I6:40:ASP:HB2	13:I6:202:CYC:HHD	1.95	0.47
2:J6:29:ARG:N	3:K6:39:LEU:HD11	2.28	0.47
13:K6:202:CYC:CMA	13:K6:202:CYC:HBA2	2.44	0.47
3:M6:111:LEU:HD21	3:M6:168:ALA:HA	1.95	0.47
2:O6:54:ASP:HA	2:O6:57:THR:HG22	1.96	0.47
13:Z6:201:CYC:CMA	13:Z6:201:CYC:HBA2	2.45	0.47
13:Z6:201:CYC:HBA2	13:Z6:201:CYC:HMA3	1.95	0.47
3:C7:33:LYS:O	3:C7:33:LYS:HD2	2.15	0.47
2:D7:54:ASP:HA	2:D7:57:THR:HG22	1.96	0.47
2:F7:34:ARG:HH12	2:F7:146:GLN:NE2	2.13	0.47
3:I7:154:CYS:O	3:I7:158:ILE:HG13	2.14	0.47
2:L7:81:GLY:HA2	13:L7:201:CYC:HMD2	1.97	0.47
7:C8:9:VAL:HB	10:09:540:PHE:HE1	1.79	0.47
8:M8:47:ALA:O	7:Z9:158:GLY:HA2	2.15	0.47
13:M8:1001:CYC:HBB2	9:N8:42:GLN:HE22	1.79	0.47
7:O8:125:ALA:HB3	13:O8:1001:CYC:CMC	2.37	0.47
7:Q8:126:VAL:HA	13:Q8:1001:CYC:HBC2	1.96	0.47
8:o8:77:ARG:CZ	10:09:1116:SER:OG	2.62	0.47
7:p8:106:GLU:CD	10:19:1118:SER:HB3	2.38	0.47
10:09:321:SER:OG	10:09:322:MET:N	2.48	0.47
13:09:1203:CYC:HMD1	8:M9:78:ARG:HB3	1.96	0.47
10:19:789:TYR:OH	10:19:842:ASN:ND2	2.46	0.47
10:19:830:GLN:NE2	10:19:834:THR:OG1	2.48	0.47
10:19:946:GLU:OE1	10:19:951:THR:OG1	2.32	0.47
10:19:1015:ARG:NH2	10:19:1076:ASP:OD1	2.48	0.47
8:F9:47:ALA:HB2	7:q9:154:ASP:OD2	2.14	0.47
8:U9:30:ALA:O	8:U9:34:THR:OG1	2.32	0.47
12:V9:33:GLY:HA2	12:V9:36:ARG:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c9:78:ARG:HB3	13:c9:1001:CYC:HMD1	1.96	0.47
7:k9:90:ARG:HB2	8:l9:19:TYR:CZ	2.50	0.47
7:o9:16:ARG:NH2	7:o9:17:TYR:O	2.46	0.47
7:w9:16:ARG:NH2	7:w9:17:TYR:O	2.46	0.47
3:CA:55:ASN:OD1	3:CA:58:ARG:NH2	2.48	0.47
3:EA:50:SER:O	3:EA:54:THR:OG1	2.32	0.47
2:OA:26:GLN:HG2	2:WA:34:ARG:HG2	1.97	0.47
3:PA:50:SER:O	3:PA:54:THR:OG1	2.32	0.47
3:RA:154:CYS:HB3	13:RA:201:CYC:CBC	2.45	0.47
13:RA:201:CYC:CMA	13:RA:201:CYC:HBA2	2.44	0.47
2:WA:41:ALA:HB2	2:WA:147:ALA:HB1	1.96	0.47
3:C1:82:ALA:CB	13:C1:301:CYC:CAD	2.92	0.47
13:E1:202:CYC:CMA	13:E1:202:CYC:HBA2	2.45	0.47
2:H1:87:ARG:HH22	3:M1:68:ILE:HD11	1.79	0.47
2:J1:123:PHE:CD2	13:J1:1001:CYC:CAA	2.97	0.47
13:K1:201:CYC:CMA	13:K1:201:CYC:HBA2	2.44	0.47
4:N1:117:HIS:HE1	4:N1:133:TYR:CE2	2.30	0.47
2:Q1:3:LYS:HE2	2:U1:16:GLN:HE22	1.80	0.47
3:T1:4:ASP:H	3:T1:7:THR:HG1	1.62	0.47
3:V1:37:LYS:HE3	13:V1:201:CYC:O2A	2.14	0.47
2:F2:3:LYS:HG2	2:L2:23:THR:HG21	1.96	0.47
2:J2:29:ARG:C	2:J2:29:ARG:CD	2.88	0.47
2:S2:54:ASP:HA	2:S2:57:THR:HG22	1.96	0.47
2:U2:91:HIS:CG	13:U2:202:CYC:HBB3	2.50	0.47
3:V2:58:ARG:CZ	2:W2:73:PRO:CG	2.91	0.47
6:A3:9:ALA:O	6:A3:120:ASN:CB	2.62	0.47
13:C3:201:CYC:CMA	13:C3:201:CYC:HBA2	2.45	0.47
13:G3:202:CYC:HBA2	13:G3:202:CYC:HMA3	1.95	0.47
2:D4:153:THR:CG2	3:I4:43:ASN:HD21	2.27	0.47
13:E4:201:CYC:HMD1	13:E4:201:CYC:HC	1.80	0.47
2:F4:136:HIS:NE2	2:F4:140:ASN:ND2	2.40	0.47
13:G4:201:CYC:CMA	13:G4:201:CYC:HBA2	2.44	0.47
2:H4:87:ARG:HH22	3:M4:68:ILE:HD11	1.79	0.47
13:P4:202:CYC:CMA	13:P4:202:CYC:HBA2	2.44	0.47
3:T4:154:CYS:SG	13:T4:201:CYC:HMC1	2.54	0.47
13:T4:201:CYC:HMA3	13:T4:201:CYC:HBA2	1.95	0.47
2:H5:41:ALA:HB2	2:H5:147:ALA:HB1	1.96	0.47
3:K5:50:SER:O	3:K5:54:THR:OG1	2.32	0.47
3:K5:144:ASN:C	13:K5:201:CYC:HBB1	2.39	0.47
3:R5:53:VAL:HG13	3:R5:87:MET:HB3	1.96	0.47
3:T5:40:ASP:OD2	3:T5:40:ASP:N	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W5:34:ARG:HH12	2:W5:37:ALA:CB	2.27	0.47
3:C6:152:GLY:N	13:C6:202:CYC:HMD2	2.29	0.47
3:E6:73:ASN:O	13:E6:201:CYC:HMD2	2.14	0.47
2:O6:74:GLN:OE1	2:O6:124:ASP:CB	2.58	0.47
3:Z6:33:LYS:HD2	3:Z6:33:LYS:HA	1.71	0.47
13:E7:202:CYC:CMA	13:E7:202:CYC:HBA2	2.45	0.47
3:G7:34:GLU:CD	3:G7:157:LEU:HD22	2.30	0.47
2:J7:29:ARG:C	2:J7:29:ARG:CD	2.87	0.47
7:O8:14:GLU:HG3	10:09:791:ASN:ND2	2.17	0.47
7:O8:27:LYS:HG2	8:P8:36:GLU:OE2	2.14	0.47
7:Q8:16:ARG:O	8:R8:95:TYR:OH	2.32	0.47
9:b8:5:PHE:HE2	9:b8:34:TYR:HD2	1.63	0.47
7:p8:125:ALA:HB3	13:p8:1001:CYC:CMC	2.37	0.47
8:s8:116:THR:HG1	10:19:1103:LEU:HD23	1.78	0.47
10:09:711:ILE:HG23	8:z9:15:VAL:HG21	1.95	0.47
10:09:802:PRO:HD3	8:v9:111:ASN:HD22	1.79	0.47
10:09:830:GLN:OE1	8:v9:84:ARG:NH2	2.46	0.47
10:19:33:ARG:O	8:h9:95:TYR:OH	2.33	0.47
8:F9:78:ARG:HB3	13:F9:1001:CYC:HMD1	1.96	0.47
7:X9:16:ARG:NH2	7:X9:17:TYR:O	2.46	0.47
8:j9:74:TYR:OH	7:k9:90:ARG:NH2	2.25	0.47
7:w9:66:VAL:HG12	5:AA:229:GLN:C	2.20	0.47
8:z9:78:ARG:HB3	13:z9:1001:CYC:HMD1	1.96	0.47
5:AA:38:VAL:HG23	5:AA:44:ILE:HD11	1.96	0.47
5:AA:54:GLN:HE21	5:AA:162:TYR:HA	1.78	0.47
13:AA:302:CYC:HMB1	3:EA:114:LEU:HD13	1.96	0.47
13:IA:202:CYC:CMA	13:IA:202:CYC:HBA2	2.45	0.47
3:KA:77:ASN:OD1	13:LA:201:CYC:NB	2.44	0.47
4:NA:83:LYS:HE3	4:NA:88:TYR:HE1	1.80	0.47
13:NA:301:CYC:CMC	3:RA:128:VAL:HG22	2.45	0.47
3:PA:108:ASP:OD1	3:PA:112:ASN:ND2	2.48	0.47
2:QA:34:ARG:NH1	2:QA:34:ARG:CG	2.72	0.47
2:QA:41:ALA:HB2	2:QA:147:ALA:HB1	1.96	0.47
3:RA:34:GLU:HA	3:RA:37:LYS:HD2	1.95	0.47
13:ZA:202:CYC:CMA	13:ZA:202:CYC:HBA2	2.45	0.47
1:A1:98:LYS:NZ	2:B1:2:VAL:O	2.46	0.47
3:K1:82:ALA:O	3:K1:86:ASP:HB2	2.15	0.47
4:N1:126:TYR:N	2:Q1:15:THR:O	2.36	0.47
3:T1:154:CYS:SG	13:T1:201:CYC:HMC1	2.54	0.47
2:U1:95:ILE:HD11	13:U1:1001:CYC:HBB1	1.96	0.47
5:A2:192:THR:OG1	3:G2:71:GLY:O	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:I2:202:CYC:CMA	13:I2:202:CYC:HBA2	2.45	0.47
2:L2:119:ILE:CD1	13:L2:201:CYC:CMA	2.91	0.47
4:N2:6:ALA:HB2	3:T2:121:LEU:O	2.14	0.47
2:O2:54:ASP:HA	2:O2:57:THR:HG22	1.96	0.47
2:Q2:88:ASP:CG	13:Q2:201:CYC:CHB	2.70	0.47
3:C3:107:ASP:OD1	3:C3:107:ASP:N	2.46	0.47
2:D3:29:ARG:CD	2:D3:29:ARG:C	2.88	0.47
2:H3:74:GLN:OE1	2:H3:124:ASP:CB	2.61	0.47
3:I3:41:VAL:HG22	13:I3:202:CYC:HMB3	1.96	0.47
13:I3:202:CYC:HBA2	13:I3:202:CYC:HMA3	1.95	0.47
2:J3:29:ARG:C	2:J3:29:ARG:CD	2.88	0.47
1:A4:78:SER:OG	1:A4:156:ASN:OD1	2.28	0.47
3:I4:111:LEU:HD21	3:I4:168:ALA:HA	1.96	0.47
2:J4:34:ARG:HH11	2:J4:150:GLU:HB2	1.71	0.47
3:K4:84:LEU:HD12	3:K4:84:LEU:O	2.14	0.47
2:U4:95:ILE:HD11	13:U4:1001:CYC:HBB1	1.96	0.47
3:V4:37:LYS:O	3:V4:41:VAL:HG12	2.15	0.47
13:X4:202:CYC:HBA2	13:X4:202:CYC:HMA3	1.95	0.47
5:A5:17:VAL:HG13	3:E5:85:ARG:NE	2.29	0.47
5:A5:201:PHE:CZ	8:z9:63:TYR:CZ	3.03	0.47
5:A5:220:ALA:HB2	7:q9:79:ALA:HB2	1.88	0.47
13:C5:201:CYC:HBA2	13:C5:201:CYC:HMA3	1.95	0.47
2:D5:34:ARG:NH1	13:I5:202:CYC:HAC2	2.30	0.47
2:D5:41:ALA:HB2	2:D5:147:ALA:HB1	1.96	0.47
3:I5:34:GLU:HA	3:I5:37:LYS:HD2	1.95	0.47
13:I5:201:CYC:HAA1	4:N5:263:TYR:OH	2.13	0.47
3:K5:150:THR:OG1	13:K5:201:CYC:HAA2	2.13	0.47
13:M5:1003:CYC:CMA	13:M5:1003:CYC:HBA2	2.44	0.47
4:N5:170:ARG:HE	4:N5:189:ARG:HG2	1.80	0.47
3:P5:83:CYS:HB3	13:P5:201:CYC:HAC2	1.95	0.47
3:T5:146:PRO:HG3	3:T5:151:LYS:NZ	2.29	0.47
3:T5:152:GLY:CA	13:T5:202:CYC:CMD	2.90	0.47
3:V5:44:ARG:HH12	3:V5:149:ILE:HD11	1.78	0.47
5:A6:59:HIS:O	5:A6:62:LEU:CD1	2.62	0.47
2:F6:34:ARG:HH12	2:F6:146:GLN:NE2	2.12	0.47
3:I6:115:ARG:HH21	4:N6:9:ARG:CD	2.04	0.47
13:I6:202:CYC:CMA	13:I6:202:CYC:HBA2	2.45	0.47
2:J6:29:ARG:C	2:J6:29:ARG:CD	2.88	0.47
4:N6:47:ASP:OD1	4:N6:49:ILE:HD11	2.15	0.47
2:S6:29:ARG:CG	2:S6:29:ARG:NH2	2.78	0.47
2:S6:54:ASP:HA	2:S6:57:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:T6:201:CYC:CMA	13:T6:201:CYC:HBA2	2.45	0.47
3:Z6:44:ARG:NH2	3:Z6:149:ILE:HG13	2.30	0.47
3:K7:111:LEU:HD21	3:K7:168:ALA:HA	1.95	0.47
7:V8:126:VAL:HA	13:V8:1001:CYC:HBC2	1.96	0.47
13:d8:1001:CYC:HBA1	10:09:1004:ARG:HB2	1.92	0.47
7:j8:110:ILE:HD13	10:09:1117:TRP:CZ2	2.21	0.47
8:m8:116:THR:HG1	10:09:1103:LEU:CD2	2.02	0.47
13:q8:1001:CYC:HBB2	10:19:1033:ASN:ND2	2.29	0.47
7:r8:125:ALA:HB3	13:r8:1001:CYC:CMC	2.37	0.47
10:09:520:LYS:HE2	10:09:520:LYS:HB2	1.79	0.47
10:19:991:PRO:HG2	10:19:993:TYR:CZ	2.48	0.47
13:39:1001:CYC:HMD1	8:n9:78:ARG:HB3	1.97	0.47
7:A9:16:ARG:NH2	7:A9:17:TYR:O	2.46	0.47
8:J9:30:ALA:O	8:J9:34:THR:OG1	2.32	0.47
8:M9:30:ALA:O	8:M9:34:THR:OG1	2.32	0.47
8:O9:30:ALA:O	8:O9:34:THR:OG1	2.33	0.47
11:g9:3:ASP:N	11:g9:6:THR:OG1	2.47	0.47
7:w9:47:ARG:HD3	8:x9:19:TYR:OH	2.15	0.47
7:w9:86:ASP:HB3	5:AA:219:PHE:CZ	2.43	0.47
3:CA:78:ARG:O	3:CA:78:ARG:HD2	2.14	0.47
3:MA:67:LEU:HB3	3:MA:74:ALA:HB3	1.95	0.47
3:TA:50:SER:O	3:TA:54:THR:OG1	2.32	0.47
1:A1:209:THR:HB	7:c8:67:SER:HG	1.77	0.47
2:B1:3:LYS:HE2	2:J1:16:GLN:HE22	1.79	0.47
13:I1:202:CYC:CMA	13:I1:202:CYC:HBA2	2.45	0.47
2:L1:150:GLU:OE2	2:L1:150:GLU:HA	2.14	0.47
13:M1:202:CYC:CMA	13:M1:202:CYC:HBA2	2.44	0.47
3:R1:111:LEU:HD21	3:R1:168:ALA:HA	1.96	0.47
13:T1:201:CYC:CMA	13:T1:201:CYC:HBA2	2.44	0.47
3:V1:79:ARG:HB3	13:V1:202:CYC:CMA	2.43	0.47
13:V1:201:CYC:CMA	13:V1:201:CYC:HBA2	2.44	0.47
3:X1:88:GLU:O	3:X1:92:ARG:N	2.45	0.47
5:A2:59:HIS:O	5:A2:62:LEU:CD1	2.62	0.47
5:A2:238:ALA:O	5:A2:241:ILE:CG1	2.62	0.47
5:A2:240:ASP:C	5:A2:242:ASP:H	2.20	0.47
2:B2:31:ARG:HG2	2:J2:26:GLN:OE1	2.15	0.47
3:C2:152:GLY:N	13:C2:202:CYC:HMD2	2.29	0.47
13:C2:202:CYC:CMA	13:C2:202:CYC:HBA2	2.45	0.47
13:C2:202:CYC:HBA2	13:C2:202:CYC:HMA3	1.95	0.47
2:D2:54:ASP:HA	2:D2:57:THR:HG22	1.96	0.47
2:L2:6:ILE:CD1	2:L2:32:TYR:HE1	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S2:31:ARG:CZ	2:S2:102:ALA:O	2.63	0.47
3:T2:76:THR:CG2	3:T2:79:ARG:NH2	2.78	0.47
2:U2:32:TYR:CD1	2:U2:32:TYR:N	2.83	0.47
2:W2:88:ASP:OD2	13:W2:202:CYC:NA	2.47	0.47
2:Y2:54:ASP:HA	2:Y2:57:THR:HG22	1.96	0.47
2:D3:54:ASP:HA	2:D3:57:THR:HG22	1.96	0.47
3:K3:43:ASN:CG	13:K3:202:CYC:HBC3	2.39	0.47
3:K3:144:ASN:ND2	3:K3:158:ILE:HD13	2.29	0.47
2:L3:81:GLY:HA2	13:L3:201:CYC:HMD2	1.97	0.47
3:M3:44:ARG:CZ	3:M3:149:ILE:HG13	2.44	0.47
2:B4:83:SER:O	8:W8:23:ALA:HA	2.15	0.47
3:I4:68:ILE:HD13	13:J4:1001:CYC:O2A	2.15	0.47
3:K4:40:ASP:OD2	13:K4:202:CYC:C4A	2.60	0.47
3:K4:64:GLN:CD	3:T4:16:ARG:HH12	2.23	0.47
13:K4:201:CYC:CBD	13:K4:201:CYC:CHA	2.86	0.47
3:M4:36:ASN:ND2	13:M4:202:CYC:HAD1	2.29	0.47
3:M4:88:GLU:O	3:M4:92:ARG:N	2.43	0.47
4:N4:173:ARG:NH2	4:N4:203:VAL:O	2.47	0.47
3:P4:78:ARG:NH2	13:P4:201:CYC:O2D	2.45	0.47
3:R4:111:LEU:HD21	3:R4:168:ALA:HA	1.96	0.47
2:U4:119:ILE:CD1	13:U4:1001:CYC:HMA1	2.44	0.47
2:B5:28:ALA:O	2:B5:32:TYR:CD2	2.68	0.47
2:B5:62:GLN:HE22	7:A9:60:GLN:HB2	1.79	0.47
13:C5:201:CYC:CMA	13:C5:201:CYC:HBA2	2.45	0.47
2:F5:34:ARG:NH2	13:M5:1003:CYC:CBC	2.69	0.47
2:F5:94:ARG:HH21	3:G5:14:ASP:HA	1.79	0.47
3:I5:50:SER:O	3:I5:54:THR:OG1	2.32	0.47
3:K5:53:VAL:HG13	3:K5:87:MET:HB3	1.96	0.47
3:K5:67:LEU:HB3	3:K5:74:ALA:HB3	1.95	0.47
4:N5:94:ARG:NH1	4:N5:97:GLU:OE2	2.48	0.47
4:N5:261:VAL:HG21	4:N5:269:LYS:HD2	1.96	0.47
3:R5:67:LEU:HB3	3:R5:74:ALA:HB3	1.95	0.47
3:R5:108:ASP:OD1	3:R5:112:ASN:ND2	2.48	0.47
2:W5:61:TYR:OH	2:W5:85:CYS:SG	2.68	0.47
2:Y5:31:ARG:CZ	2:Y5:31:ARG:CB	2.90	0.47
5:A6:6:LEU:HD21	5:A6:128:ALA:HA	1.97	0.47
5:A6:103:ASN:HD21	3:C6:112:ASN:ND2	2.09	0.47
5:A6:131:ILE:CB	13:C6:201:CYC:O1A	2.62	0.47
2:B6:85:CYS:HA	13:B6:1001:CYC:CAC	2.45	0.47
3:C6:145:ASP:OD1	3:C6:146:PRO:HD2	2.13	0.47
13:E6:202:CYC:CMA	13:E6:202:CYC:HBA2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G6:82:ALA:CB	13:G6:202:CYC:C2D	2.92	0.47
13:G6:201:CYC:HBD1	13:G6:201:CYC:CHA	2.28	0.47
13:I6:202:CYC:HBA2	13:I6:202:CYC:HMA3	1.95	0.47
13:K6:201:CYC:CMA	13:K6:201:CYC:HBA2	2.44	0.47
2:L6:6:ILE:CD1	2:L6:32:TYR:HE1	2.28	0.47
13:M6:201:CYC:CMA	13:M6:201:CYC:HBA2	2.44	0.47
4:N6:192:ARG:NH1	3:R6:116:GLU:OE2	2.48	0.47
13:X6:202:CYC:HBA2	13:X6:202:CYC:HMA3	1.95	0.47
6:A7:92:TYR:C	6:A7:92:TYR:CD2	2.93	0.47
2:B7:30:GLY:HA3	2:J7:30:GLY:CA	2.16	0.47
13:C7:201:CYC:CMA	13:C7:201:CYC:HBA2	2.45	0.47
2:H7:74:GLN:OE1	2:H7:124:ASP:CB	2.61	0.47
3:I7:38:ARG:O	3:I7:42:VAL:HB	2.14	0.47
2:J7:54:ASP:HA	2:J7:57:THR:HG22	1.96	0.47
2:L7:88:ASP:OD1	13:L7:201:CYC:HHB	2.15	0.47
8:B8:77:ARG:HD3	10:09:542:GLU:OE2	2.15	0.47
7:C8:110:ILE:CD1	10:09:542:GLU:CD	2.87	0.47
7:C8:125:ALA:HB3	13:C8:1001:CYC:CMC	2.37	0.47
8:I8:75:THR:HG22	7:J8:107:ILE:O	2.15	0.47
8:K8:82:CYS:SG	13:K8:1001:CYC:HAC1	2.51	0.47
8:K8:107:GLU:OE2	10:19:541:SER:OG	2.25	0.47
7:O8:126:VAL:HA	13:O8:1001:CYC:HBC2	1.96	0.47
7:Z8:59:PHE:HD2	7:I9:73:TYR:OH	1.97	0.47
7:e8:106:GLU:CD	10:09:969:ALA:H	2.22	0.47
10:19:54:LEU:HD22	8:h9:29:LYS:HB2	1.97	0.47
9:29:23:LEU:CD2	13:U9:1001:CYC:O2A	2.63	0.47
9:39:32:VAL:HG21	9:39:40:GLU:HG3	1.96	0.47
8:F9:30:ALA:O	8:F9:34:THR:OG1	2.32	0.47
8:H9:79:TYR:CD1	7:I9:115:MET:HG3	2.50	0.47
8:S9:30:ALA:O	8:S9:34:THR:OG1	2.32	0.47
8:S9:78:ARG:HB3	13:S9:1001:CYC:HMD1	1.96	0.47
8:Y9:30:ALA:O	8:Y9:34:THR:OG1	2.32	0.47
7:s9:16:ARG:NH2	7:s9:17:TYR:O	2.46	0.47
8:x9:30:ALA:O	8:x9:34:THR:OG1	2.32	0.47
13:AA:304:CYC:HBC1	3:KA:114:LEU:HD13	1.95	0.47
2:BA:28:ALA:O	2:BA:32:TYR:CD2	2.68	0.47
3:CA:53:VAL:HG13	3:CA:87:MET:HB3	1.96	0.47
3:CA:157:LEU:C	3:CA:157:LEU:CD1	2.86	0.47
2:DA:14:ASP:OD2	3:EA:109:ARG:NH1	2.48	0.47
3:GA:50:SER:O	3:GA:54:THR:OG1	2.32	0.47
3:GA:149:ILE:CD1	3:GA:149:ILE:H	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IA:146:PRO:HB3	3:IA:151:LYS:NZ	2.29	0.47
3:MA:50:SER:O	3:MA:54:THR:OG1	2.32	0.47
13:MA:1002:CYC:OB	4:NA:253:ARG:HG3	2.15	0.47
13:TA:202:CYC:CMA	13:TA:202:CYC:HBA2	2.45	0.47
3:XA:149:ILE:CD1	3:XA:149:ILE:H	2.27	0.47
13:XA:202:CYC:CMA	13:XA:202:CYC:HBA2	2.44	0.47
2:YA:31:ARG:HH21	2:YA:31:ARG:CG	2.27	0.47
2:YA:41:ALA:HB2	2:YA:147:ALA:HB1	1.96	0.47
3:ZA:50:SER:O	3:ZA:54:THR:OG1	2.32	0.47
3:ZA:121:LEU:HD23	13:ZA:201:CYC:HBD1	1.97	0.47
3:C1:118:TYR:CE2	3:C1:128:VAL:HG21	2.50	0.47
4:N1:138:GLU:OE2	4:N1:152:ARG:NH2	2.44	0.47
2:W1:123:PHE:CD2	13:W1:1001:CYC:CAA	2.97	0.47
3:Z1:111:LEU:HD21	3:Z1:168:ALA:HA	1.96	0.47
3:G2:152:GLY:N	13:G2:201:CYC:CMD	2.78	0.47
13:K2:201:CYC:HBA2	13:K2:201:CYC:HMA3	1.95	0.47
13:K2:202:CYC:CMA	13:K2:202:CYC:HBA2	2.44	0.47
4:N2:239:LEU:HD22	4:N2:283:VAL:HG22	1.93	0.47
3:R2:38:ARG:O	3:R2:42:VAL:HG23	2.15	0.47
2:U2:85:CYS:SG	13:U2:202:CYC:CAC	2.95	0.47
3:V2:89:ILE:HG21	13:V2:202:CYC:HMC3	1.97	0.47
3:X2:68:ILE:HD12	13:Y2:201:CYC:O1A	2.15	0.47
3:C3:37:LYS:HD3	3:C3:154:CYS:SG	2.55	0.47
3:E3:107:ASP:HA	3:E3:111:LEU:HB2	1.97	0.47
3:G3:149:ILE:HG21	13:G3:202:CYC:C4C	2.44	0.47
4:N3:237:TYR:CD1	4:N3:285:SER:HB2	2.50	0.47
1:A4:134:ASN:HB3	1:A4:138:GLY:HA3	1.97	0.47
13:M4:201:CYC:OB	4:N4:253:ARG:O	2.33	0.47
13:M4:202:CYC:CMA	13:M4:202:CYC:HBA2	2.44	0.47
3:C5:108:ASP:OD1	3:C5:112:ASN:ND2	2.48	0.47
3:G5:34:GLU:HA	3:G5:37:LYS:HD2	1.95	0.47
3:G5:142:ILE:HD13	3:G5:142:ILE:HA	1.76	0.47
3:M5:83:CYS:SG	13:M5:1002:CYC:H2C	2.55	0.47
4:N5:91:PHE:CE1	13:N5:301:CYC:CAB	2.60	0.47
3:P5:154:CYS:HB2	13:P5:202:CYC:C3B	2.45	0.47
3:T5:50:SER:O	3:T5:54:THR:OG1	2.32	0.47
13:U5:1001:CYC:O1A	3:Z5:68:ILE:HD11	1.96	0.47
3:Z5:44:ARG:HH12	3:Z5:145:ASP:CG	2.19	0.47
5:A6:60:GLU:HG3	5:A6:97:LEU:HD11	1.96	0.47
3:C6:33:LYS:O	3:C6:33:LYS:HD2	2.15	0.47
13:C6:202:CYC:CMA	13:C6:202:CYC:HBA2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I6:38:ARG:O	3:I6:42:VAL:HB	2.14	0.47
2:L6:81:GLY:HA2	13:L6:201:CYC:HMD2	1.97	0.47
4:N6:246:SER:HB3	4:N6:252:VAL:HG12	1.97	0.47
13:N6:302:CYC:C3A	3:T6:82:ALA:CB	2.93	0.47
13:I7:202:CYC:CMA	13:I7:202:CYC:HBA2	2.45	0.47
3:M7:107:ASP:HA	3:M7:111:LEU:HB2	1.97	0.47
8:I8:84:ARG:HH11	10:19:572:ILE:CD1	2.28	0.47
7:O8:20:PRO:CB	7:u9:151:SER:HG	2.19	0.47
8:P8:84:ARG:NH1	10:09:771:SER:OG	2.47	0.47
8:m8:21:ASP:OD1	8:m8:21:ASP:N	2.46	0.47
7:n8:52:LYS:HE3	10:09:930:PHE:HE2	1.75	0.47
7:n8:126:VAL:HA	13:n8:1001:CYC:HBC2	1.96	0.47
9:29:32:VAL:HG21	9:29:40:GLU:HG3	1.96	0.47
13:29:1001:CYC:HMD1	8:W9:78:ARG:HB3	1.96	0.47
8:D9:30:ALA:O	8:D9:34:THR:OG1	2.32	0.47
8:L9:78:ARG:HB3	13:L9:1001:CYC:HMD1	1.96	0.47
8:n9:30:ALA:O	8:n9:34:THR:OG1	2.32	0.47
8:p9:30:ALA:O	8:p9:34:THR:OG1	2.32	0.47
8:x9:78:ARG:HB3	13:x9:1001:CYC:HMD1	1.96	0.47
5:AA:63:LYS:CD	2:BA:117:ALA:CB	2.91	0.47
13:CA:201:CYC:CMA	13:CA:201:CYC:HBA2	2.45	0.47
2:LA:41:ALA:HB2	2:LA:147:ALA:HB1	1.96	0.47
3:MA:53:VAL:HG13	3:MA:87:MET:HB3	1.96	0.47
4:NA:236:VAL:HG23	4:NA:286:ALA:HB3	1.97	0.47
3:RA:53:VAL:HG13	3:RA:87:MET:HB3	1.96	0.47
3:TA:146:PRO:HG3	3:TA:151:LYS:NZ	2.29	0.47
2:UA:61:TYR:OH	2:UA:85:CYS:SG	2.68	0.47
1:A1:129:ILE:O	1:A1:133:THR:HG23	2.15	0.47
3:M1:26:ASP:OD1	2:J3:51:ARG:NE	2.47	0.47
3:M1:152:GLY:N	13:M1:202:CYC:OB	2.36	0.47
2:Y1:40:GLU:OE1	2:Y1:40:GLU:N	2.48	0.47
13:Z1:201:CYC:HBD1	13:Z1:201:CYC:CHA	2.29	0.47
5:A2:11:SER:H	5:A2:121:TYR:HB3	1.79	0.47
3:G2:82:ALA:CB	13:G2:202:CYC:C2D	2.92	0.47
3:I2:38:ARG:O	3:I2:42:VAL:HB	2.14	0.47
2:J2:91:HIS:HB3	13:J2:1001:CYC:HAB1	1.97	0.47
3:M2:109:ARG:O	13:N2:301:CYC:CAB	2.63	0.47
4:N2:47:ASP:OD1	4:N2:49:ILE:HD11	2.15	0.47
2:S2:88:ASP:HA	13:S2:1001:CYC:HMB2	1.97	0.47
2:U2:32:TYR:N	2:U2:32:TYR:HD1	2.13	0.47
3:Z2:154:CYS:SG	13:Z2:201:CYC:HAB1	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B3:68:THR:HA	2:B3:77:ALA:CA	2.45	0.47
3:C3:33:LYS:O	3:C3:33:LYS:HD2	2.15	0.47
3:G3:107:ASP:HA	3:G3:111:LEU:HB2	1.97	0.47
3:G3:152:GLY:N	13:G3:202:CYC:CMD	2.78	0.47
13:I3:202:CYC:CMA	13:I3:202:CYC:HBA2	2.45	0.47
3:K4:111:LEU:HD21	3:K4:168:ALA:HA	1.96	0.47
2:L4:51:ARG:CZ	3:C7:149:ILE:N	2.78	0.47
4:N4:126:TYR:N	2:Q4:15:THR:O	2.36	0.47
13:V4:201:CYC:CMA	13:V4:201:CYC:HBA2	2.45	0.47
5:A5:35:ILE:HG22	5:A5:158:ASN:HB3	1.97	0.47
3:C5:50:SER:O	3:C5:54:THR:OG1	2.32	0.47
3:I5:53:VAL:HG13	3:I5:87:MET:HB3	1.96	0.47
4:N5:83:LYS:HE3	4:N5:88:TYR:HE1	1.80	0.47
2:O5:10:ILE:HD13	3:P5:96:TYR:HB3	1.96	0.47
3:P5:108:ASP:OD1	3:P5:112:ASN:ND2	2.48	0.47
13:P5:202:CYC:CMA	13:P5:202:CYC:HBA2	2.44	0.47
3:I6:41:VAL:HG22	13:I6:202:CYC:HMB3	1.96	0.47
3:I6:107:ASP:HA	3:I6:111:LEU:HB2	1.97	0.47
2:J6:54:ASP:HA	2:J6:57:THR:HG22	1.96	0.47
2:L6:54:ASP:HA	2:L6:57:THR:HG22	1.96	0.47
2:Q6:88:ASP:OD2	13:Q6:201:CYC:HHB	2.12	0.47
2:S6:88:ASP:HA	13:S6:1001:CYC:HMB2	1.97	0.47
3:T6:37:LYS:CB	3:T6:157:LEU:HD12	2.44	0.47
2:U6:91:HIS:CG	13:U6:202:CYC:HBB3	2.49	0.47
13:W6:201:CYC:CMA	13:W6:201:CYC:HBA2	2.45	0.47
2:B7:31:ARG:HG2	2:J7:26:GLN:OE1	2.15	0.47
3:C7:37:LYS:HD3	3:C7:154:CYS:SG	2.55	0.47
3:E7:107:ASP:HA	3:E7:111:LEU:HB2	1.97	0.47
3:K7:144:ASN:ND2	3:K7:158:ILE:HD13	2.29	0.47
2:L7:6:ILE:CD1	2:L7:32:TYR:HE1	2.28	0.47
8:D8:109:VAL:CG1	13:D8:1001:CYC:CAB	2.73	0.47
7:E8:49:ARG:HH12	8:n9:140:SER:C	2.22	0.47
7:J8:25:ARG:HD3	7:b9:25:ARG:HB2	1.97	0.47
9:N8:20:GLN:OE1	10:19:520:LYS:CD	2.62	0.47
7:Q8:125:ALA:HB3	13:Q8:1001:CYC:CMC	2.37	0.47
8:W8:88:TYR:CE2	10:19:998:GLU:CB	2.96	0.47
8:h8:82:CYS:SG	13:h8:1001:CYC:HAC1	2.51	0.47
9:i8:24:GLN:HB3	10:09:1087:ASP:OD1	2.04	0.47
7:r8:23:LEU:HD22	8:s8:39:VAL:HG13	1.97	0.47
10:09:431:ARG:HD2	10:09:475:PRO:HG2	1.97	0.47
10:09:500:GLN:HG3	10:09:507:ARG:HE	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:19:246:LEU:HD12	7:f9:15:ALA:HB3	1.97	0.47
13:19:1205:CYC:CGA	8:h9:84:ARG:NH1	2.73	0.47
7:G9:49:ARG:HH22	8:r9:141:LEU:HD12	1.78	0.47
8:M9:79:TYR:CD1	7:N9:115:MET:HG3	2.49	0.47
8:j9:30:ALA:O	8:j9:34:THR:OG1	2.32	0.47
8:t9:78:ARG:HB3	13:t9:1001:CYC:HMD1	1.96	0.47
8:v9:30:ALA:O	8:v9:34:THR:OG1	2.32	0.47
7:w9:47:ARG:HD3	8:x9:19:TYR:CZ	2.50	0.47
2:BA:31:ARG:NH1	2:BA:103:GLY:CA	2.68	0.47
3:EA:108:ASP:OD1	3:EA:112:ASN:ND2	2.48	0.47
3:EA:154:CYS:SG	13:EA:201:CYC:CMC	2.97	0.47
3:GA:53:VAL:HG13	3:GA:87:MET:HB3	1.96	0.47
3:IA:50:SER:O	3:IA:54:THR:OG1	2.32	0.47
2:JA:41:ALA:HB2	2:JA:147:ALA:HB1	1.96	0.47
13:KA:201:CYC:CMA	13:KA:201:CYC:HBA2	2.44	0.47
3:RA:152:GLY:CA	13:RA:201:CYC:HMD1	2.38	0.47
2:SA:41:ALA:HB2	2:SA:147:ALA:HB1	1.96	0.47
3:VA:108:ASP:OD1	3:VA:112:ASN:ND2	2.48	0.47
1:A1:78:SER:OG	1:A1:156:ASN:OD1	2.28	0.47
3:G1:43:ASN:HD22	13:G1:201:CYC:CMB	2.27	0.47
2:J1:88:ASP:CG	13:J1:1001:CYC:HHB	2.40	0.47
2:O1:40:GLU:OE1	2:O1:40:GLU:N	2.47	0.47
3:P1:76:THR:HG22	3:P1:79:ARG:CG	2.44	0.47
3:P1:111:LEU:HD21	3:P1:168:ALA:HA	1.96	0.47
3:V1:111:LEU:HD21	3:V1:168:ALA:HA	1.96	0.47
3:E2:73:ASN:O	13:E2:201:CYC:HMD2	2.14	0.47
3:G2:44:ARG:HH21	3:G2:149:ILE:HG12	1.80	0.47
2:H2:31:ARG:CZ	2:H2:103:GLY:CA	2.88	0.47
2:Y2:74:GLN:NE2	2:Y2:123:PHE:O	2.48	0.47
2:B3:31:ARG:HG2	2:J3:26:GLN:OE1	2.15	0.47
2:B3:119:ILE:HD11	13:B3:1001:CYC:C3A	2.35	0.47
13:C3:201:CYC:HBA2	13:C3:201:CYC:HMA3	1.95	0.47
2:F3:3:LYS:HG2	2:L3:23:THR:HG21	1.96	0.47
2:F4:123:PHE:CE2	13:F4:1001:CYC:HAA2	2.50	0.47
3:G4:83:CYS:CB	13:G4:202:CYC:CAC	2.54	0.47
3:K4:89:ILE:HG21	13:K4:201:CYC:HMC3	1.96	0.47
4:N4:117:HIS:HE1	4:N4:133:TYR:CE2	2.30	0.47
3:T4:128:VAL:HA	13:T4:202:CYC:HAB1	1.96	0.47
3:V4:36:ASN:ND2	13:V4:201:CYC:CMD	2.71	0.47
5:A5:78:SER:OG	4:N5:225:ASN:HB2	2.15	0.47
3:E5:154:CYS:HB2	13:E5:201:CYC:CAC	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F5:41:ALA:HB2	2:F5:147:ALA:HB1	1.96	0.47
3:I5:108:ASP:OD1	3:I5:112:ASN:ND2	2.48	0.47
4:N5:40:TYR:HD2	4:N5:49:ILE:HD13	1.79	0.47
3:R5:40:ASP:OD2	3:R5:40:ASP:N	2.39	0.47
2:U5:41:ALA:HB2	2:U5:147:ALA:HB1	1.96	0.47
3:Z5:53:VAL:HG13	3:Z5:87:MET:HB3	1.96	0.47
5:A6:6:LEU:HD22	13:C6:201:CYC:CBA	2.41	0.47
2:B6:31:ARG:HG2	2:J6:26:GLN:OE1	2.15	0.47
3:C6:107:ASP:OD1	3:C6:107:ASP:N	2.46	0.47
2:L6:88:ASP:OD1	13:L6:201:CYC:HHB	2.15	0.47
3:M6:109:ARG:O	13:N6:301:CYC:CAB	2.63	0.47
4:N6:6:ALA:HB2	3:T6:121:LEU:O	2.14	0.47
2:O6:31:ARG:HD3	2:O6:35:ALA:HB2	1.96	0.47
3:T6:76:THR:CG2	3:T6:79:ARG:NH2	2.78	0.47
2:U6:85:CYS:SG	13:U6:202:CYC:CAC	2.95	0.47
2:D7:119:ILE:CD1	13:D7:1001:CYC:CMA	2.86	0.47
3:E7:73:ASN:O	13:E7:201:CYC:HMD2	2.14	0.47
2:F7:94:ARG:HH21	3:G7:14:ASP:HA	1.80	0.47
7:C8:126:VAL:HA	13:C8:1001:CYC:HBC2	1.96	0.47
8:P8:77:ARG:CD	10:09:738:LYS:HG3	2.45	0.47
9:U8:5:PHE:HE2	9:U8:34:TYR:HD2	1.63	0.47
9:i8:5:PHE:HE2	9:i8:34:TYR:HD2	1.63	0.47
7:t8:126:VAL:HA	13:t8:1001:CYC:HBC2	1.96	0.47
10:19:18:GLN:H	10:19:179:ASN:ND2	2.13	0.47
10:19:182:VAL:HG12	10:19:236:GLU:HG3	1.96	0.47
8:L9:16:GLN:HG2	11:Q9:128:VAL:HG22	1.97	0.47
8:e9:78:ARG:HB3	13:e9:1001:CYC:HMD1	1.96	0.47
7:k9:107:ILE:HG21	8:l9:14:ASP:OD1	2.15	0.47
8:r9:30:ALA:O	8:r9:34:THR:OG1	2.33	0.47
3:CA:50:SER:O	3:CA:54:THR:OG1	2.32	0.47
3:CA:142:ILE:HD13	3:CA:142:ILE:HA	1.76	0.47
13:EA:201:CYC:CMA	13:EA:201:CYC:HBA2	2.45	0.47
3:IA:53:VAL:HG13	3:IA:87:MET:HB3	1.96	0.47
3:TA:53:VAL:HG13	3:TA:87:MET:HB3	1.96	0.47
13:UA:1001:CYC:O2A	3:ZA:68:ILE:HD12	2.13	0.47
13:P1:202:CYC:CMA	13:P1:202:CYC:HBA2	2.44	0.46
3:C2:37:LYS:HD3	3:C2:154:CYS:SG	2.55	0.46
2:L2:81:GLY:HA2	13:L2:201:CYC:HMD2	1.97	0.46
3:M2:44:ARG:CZ	3:M2:149:ILE:HG13	2.44	0.46
2:Y2:88:ASP:O	13:Y2:201:CYC:HMB2	2.16	0.46
3:Z2:44:ARG:NH2	3:Z2:149:ILE:HG13	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A3:65:GLN:CD	6:A3:67:PHE:CZ	2.94	0.46
3:G3:44:ARG:HH21	3:G3:149:ILE:HG12	1.80	0.46
3:I3:107:ASP:HA	3:I3:111:LEU:HB2	1.97	0.46
3:K3:107:ASP:HA	3:K3:111:LEU:HB2	1.97	0.46
1:A4:195:ILE:CG1	7:V8:83:ARG:HH11	2.27	0.46
3:C4:83:CYS:O	3:C4:87:MET:HG2	2.14	0.46
2:J4:88:ASP:CG	13:J4:1001:CYC:HHB	2.40	0.46
3:K4:77:ASN:ND2	3:K4:77:ASN:C	2.73	0.46
3:T4:154:CYS:SG	13:T4:201:CYC:HAC2	2.54	0.46
3:E5:108:ASP:OD1	3:E5:112:ASN:ND2	2.48	0.46
3:G5:40:ASP:OD2	3:G5:40:ASP:N	2.39	0.46
13:I5:202:CYC:CMA	13:I5:202:CYC:HBA2	2.45	0.46
13:N5:301:CYC:CMC	3:R5:128:VAL:HG22	2.45	0.46
13:R5:201:CYC:CBD	13:R5:201:CYC:CHA	2.86	0.46
2:S5:41:ALA:HB2	2:S5:147:ALA:HB1	1.96	0.46
2:U5:6:ILE:HG13	2:U5:31:ARG:HD2	1.97	0.46
3:V5:48:ASN:HD22	3:V5:142:ILE:HG21	1.79	0.46
5:A6:183:PHE:HE1	3:C6:108:ASP:OD1	1.97	0.46
2:S6:34:ARG:NH2	2:S6:146:GLN:HE21	2.12	0.46
13:U6:201:CYC:CMA	13:U6:201:CYC:HBA2	2.45	0.46
13:V6:201:CYC:CMA	13:V6:201:CYC:HBA2	2.45	0.46
6:A7:13:GLN:CB	6:A7:119:TYR:CZ	2.89	0.46
6:A7:73:ARG:NH1	6:A7:73:ARG:CG	2.73	0.46
6:A7:103:TYR:CZ	3:C7:117:THR:CG2	2.96	0.46
2:D7:29:ARG:CD	2:D7:29:ARG:C	2.88	0.46
7:A8:126:VAL:HA	13:A8:1001:CYC:HBC2	1.96	0.46
8:D8:141:LEU:CB	7:E9:49:ARG:HH22	2.28	0.46
7:H8:21:GLY:O	7:H8:25:ARG:HG3	2.16	0.46
9:U8:30:LYS:HD2	10:09:782:GLU:CD	2.28	0.46
7:n8:23:LEU:HD13	8:o8:43:THR:HG23	1.96	0.46
10:09:256:GLY:N	7:P9:12:ASP:O	2.48	0.46
10:19:946:GLU:HA	10:19:950:GLY:HA2	1.97	0.46
9:39:38:PHE:HA	9:39:41:GLN:OE1	2.14	0.46
7:C9:60:GLN:C	7:C9:60:GLN:NE2	2.73	0.46
11:Q9:45:ASN:O	12:V9:158:GLN:NE2	2.48	0.46
8:l9:30:ALA:O	8:l9:34:THR:OG1	2.32	0.46
8:l9:78:ARG:HB3	13:l9:1001:CYC:HMD1	1.96	0.46
8:t9:63:TYR:CA	5:AA:205:LYS:HZ3	1.76	0.46
2:DA:28:ALA:O	2:DA:32:TYR:CD2	2.68	0.46
13:GA:1002:CYC:CMA	13:GA:1002:CYC:HBA2	2.44	0.46
2:OA:41:ALA:HB2	2:OA:147:ALA:HB1	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D1:29:ARG:HH22	2:H1:33:GLU:HG2	1.80	0.46
3:E1:76:THR:HG23	3:E1:79:ARG:HG3	1.97	0.46
2:F1:40:GLU:OE1	2:F1:40:GLU:N	2.48	0.46
2:L1:73:PRO:O	13:L1:201:CYC:HBD2	2.15	0.46
3:M1:111:LEU:HD21	3:M1:168:ALA:HA	1.96	0.46
4:N1:3:ILE:HG13	13:T1:202:CYC:O1D	2.15	0.46
2:W1:74:GLN:HA	13:W1:1001:CYC:CBD	2.44	0.46
2:B2:68:THR:HA	2:B2:77:ALA:CA	2.45	0.46
3:G2:152:GLY:CA	13:G2:201:CYC:HMD1	2.38	0.46
2:H2:85:CYS:HA	13:H2:1001:CYC:CAC	2.43	0.46
2:J2:85:CYS:SG	13:J2:1001:CYC:H2C	2.55	0.46
2:L2:88:ASP:OD1	13:L2:201:CYC:HHB	2.15	0.46
3:M2:107:ASP:HA	3:M2:111:LEU:HB2	1.97	0.46
3:M2:145:ASP:HA	3:M2:146:PRO:HD3	1.44	0.46
13:N2:302:CYC:C3A	3:T2:82:ALA:CB	2.93	0.46
2:O2:34:ARG:NE	13:W2:203:CYC:H2C	2.30	0.46
3:V2:107:ASP:HA	3:V2:111:LEU:HB2	1.97	0.46
6:A3:88:LYS:HZ3	6:A3:141:ASP:CG	1.98	0.46
6:A3:144:LEU:C	6:A3:144:LEU:CD1	2.85	0.46
2:L3:54:ASP:HA	2:L3:57:THR:HG22	1.96	0.46
3:M3:107:ASP:HA	3:M3:111:LEU:HB2	1.97	0.46
4:N3:246:SER:HB3	4:N3:252:VAL:HG12	1.97	0.46
1:A4:68:LEU:HB3	1:A4:82:PHE:CE1	2.49	0.46
2:J4:123:PHE:CD2	13:J4:1001:CYC:CAA	2.97	0.46
2:O4:85:CYS:CB	13:O4:1001:CYC:CAC	2.87	0.46
5:A5:228:ASN:ND2	7:q9:59:PHE:CA	2.76	0.46
13:A5:301:CYC:HBB1	3:C5:93:TYR:CE2	2.49	0.46
13:A5:302:CYC:HMB1	3:E5:114:LEU:HD13	1.96	0.46
3:G5:50:SER:O	3:G5:54:THR:OG1	2.32	0.46
13:K5:201:CYC:CMA	13:K5:201:CYC:HBA2	2.44	0.46
3:P5:53:VAL:HG13	3:P5:87:MET:HB3	1.96	0.46
5:A6:57:SER:HB3	13:G6:202:CYC:O1A	2.15	0.46
5:A6:105:TYR:CE2	3:C6:113:GLY:HA3	2.49	0.46
5:A6:192:THR:OG1	3:G6:71:GLY:O	2.30	0.46
2:B6:54:ASP:HA	2:B6:57:THR:HG22	1.96	0.46
3:C6:37:LYS:HD3	3:C6:154:CYS:SG	2.55	0.46
2:D6:54:ASP:HA	2:D6:57:THR:HG22	1.96	0.46
3:V6:58:ARG:HH12	13:W6:202:CYC:CGD	2.27	0.46
3:X6:68:ILE:HD12	13:Y6:201:CYC:O1A	2.15	0.46
2:B7:54:ASP:HA	2:B7:57:THR:HG22	1.96	0.46
3:E7:43:ASN:O	3:E7:47:SER:OG	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:N7:301:CYC:HBA2	13:N7:301:CYC:CHA	2.24	0.46
7:E8:126:VAL:HA	13:E8:1001:CYC:HBC2	1.96	0.46
8:o8:16:GLN:C	10:09:938:ASN:HD22	2.23	0.46
7:p8:23:LEU:HD22	8:q8:39:VAL:HG13	1.97	0.46
8:q8:108:ARG:O	10:19:1032:PRO:HB3	2.15	0.46
10:19:975:ILE:HA	10:19:978:ILE:HD12	1.95	0.46
10:19:1051:THR:HG23	10:19:1054:GLU:H	1.79	0.46
8:L9:55:GLU:OE2	7:f9:49:ARG:HD3	2.16	0.46
8:O9:78:ARG:HB3	13:O9:1001:CYC:HMD1	1.96	0.46
8:U9:84:ARG:HG2	8:U9:84:ARG:NH1	2.18	0.46
8:W9:30:ALA:O	8:W9:34:THR:OG1	2.32	0.46
8:a9:30:ALA:O	8:a9:34:THR:OG1	2.32	0.46
5:AA:174:LEU:HD21	3:GA:112:ASN:O	2.16	0.46
3:MA:83:CYS:SG	13:MA:1002:CYC:H2C	2.55	0.46
2:OA:16:GLN:HE22	2:WA:3:LYS:HE3	1.81	0.46
1:A1:161:GLN:NE2	1:A1:170:PHE:H	2.13	0.46
3:C1:83:CYS:HB2	13:C1:301:CYC:CMD	2.46	0.46
13:E1:201:CYC:HMD1	13:E1:201:CYC:HC	1.80	0.46
3:K1:40:ASP:OD2	13:K1:202:CYC:C4A	2.60	0.46
3:K1:150:THR:OG1	13:K1:202:CYC:CAA	2.51	0.46
2:L1:143:LEU:CG	2:L1:148:ALA:HB2	2.46	0.46
13:M1:201:CYC:OB	4:N1:253:ARG:O	2.33	0.46
4:N1:170:ARG:NH2	4:N1:216:ALA:H	2.12	0.46
3:V1:124:PRO:HG2	13:V1:202:CYC:HBB3	1.97	0.46
5:A2:39:SER:OG	3:M2:2:THR:N	2.44	0.46
5:A2:62:LEU:HB3	5:A2:63:LYS:H	1.54	0.46
3:G2:40:ASP:OD2	3:G2:149:ILE:CD1	2.47	0.46
3:I2:107:ASP:HA	3:I2:111:LEU:HB2	1.97	0.46
3:K2:144:ASN:ND2	3:K2:158:ILE:HD13	2.30	0.46
2:O2:14:ASP:HA	3:P2:92:ARG:HH21	1.80	0.46
6:A3:13:GLN:CB	6:A3:119:TYR:CZ	2.89	0.46
6:A3:63:ASN:CG	6:A3:91:VAL:CG2	2.71	0.46
2:F3:30:GLY:CA	2:L3:30:GLY:CA	2.94	0.46
1:A4:129:ILE:O	1:A4:133:THR:HG23	2.15	0.46
1:A4:131:ILE:HD11	1:A4:139:PHE:CG	2.50	0.46
1:A4:161:GLN:NE2	1:A4:170:PHE:H	2.14	0.46
1:A4:212:PHE:CD1	7:r8:66:VAL:HB	2.51	0.46
3:C4:82:ALA:CB	13:C4:301:CYC:CAD	2.92	0.46
2:L4:73:PRO:O	13:L4:201:CYC:HBD2	2.16	0.46
4:N4:3:ILE:HG13	13:T4:202:CYC:O1D	2.15	0.46
2:S4:88:ASP:OD1	13:S4:1001:CYC:HHB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T4:79:ARG:HA	13:T4:202:CYC:HAA1	1.96	0.46
3:V4:128:VAL:CG2	13:V4:202:CYC:HMB2	2.31	0.46
2:J5:41:ALA:HB2	2:J5:147:ALA:HB1	1.96	0.46
3:M5:53:VAL:HG13	3:M5:87:MET:HB3	1.96	0.46
4:N5:62:LEU:CD1	4:N5:72:PHE:CD2	2.95	0.46
4:N5:236:VAL:HG23	4:N5:286:ALA:HB3	1.97	0.46
3:T5:108:ASP:OD1	3:T5:112:ASN:ND2	2.48	0.46
2:Y5:31:ARG:NH2	2:Y5:31:ARG:C	2.73	0.46
2:J6:85:CYS:SG	13:J6:1001:CYC:H2C	2.55	0.46
2:J6:88:ASP:OD1	13:J6:1001:CYC:CHB	2.62	0.46
2:U6:32:TYR:N	2:U6:32:TYR:CD1	2.83	0.46
2:B7:76:ALA:HB2	13:B7:1001:CYC:C1C	2.46	0.46
2:B7:85:CYS:SG	13:B7:1001:CYC:CAC	3.03	0.46
2:L7:14:ASP:OD1	3:M7:93:TYR:OH	2.31	0.46
7:Q8:21:GLY:O	7:Q8:25:ARG:HG3	2.15	0.46
7:X8:20:PRO:HG2	7:t8:101:VAL:HG11	1.96	0.46
7:X8:21:GLY:O	7:X8:25:ARG:HG3	2.16	0.46
7:c8:126:VAL:HA	13:c8:1001:CYC:HBC2	1.96	0.46
13:f8:1001:CYC:HMA1	9:i8:26:THR:HG21	1.97	0.46
8:q8:108:ARG:HH22	10:19:1029:THR:HG23	1.79	0.46
7:t8:21:GLY:O	7:t8:25:ARG:HG3	2.16	0.46
10:09:755:ARG:HE	10:09:760:TYR:HD2	1.63	0.46
10:19:30:GLN:O	10:19:293:ARG:NH1	2.49	0.46
10:19:732:VAL:CG1	9:49:24:GLN:NE2	2.72	0.46
10:19:986:PHE:CZ	13:19:1201:CYC:C3A	2.98	0.46
8:H9:78:ARG:HB3	13:H9:1001:CYC:HMD1	1.96	0.46
7:T9:16:ARG:NH2	7:T9:17:TYR:O	2.46	0.46
8:h9:30:ALA:O	8:h9:34:THR:OG1	2.32	0.46
8:x9:79:TYR:CD1	7:y9:115:MET:HG3	2.50	0.46
5:AA:79:ILE:O	5:AA:79:ILE:HG13	2.15	0.46
3:CA:108:ASP:OD1	3:CA:112:ASN:ND2	2.48	0.46
3:IA:108:ASP:OD1	3:IA:112:ASN:ND2	2.48	0.46
3:IA:147:ASN:N	3:IA:147:ASN:OD1	2.49	0.46
3:KA:144:ASN:C	13:KA:201:CYC:HBB1	2.39	0.46
4:NA:261:VAL:HG21	4:NA:269:LYS:HD2	1.96	0.46
2:UA:29:ARG:CD	13:VA:202:CYC:OC	2.62	0.46
3:ZA:108:ASP:OD1	3:ZA:112:ASN:ND2	2.48	0.46
1:A1:131:ILE:HD11	1:A1:139:PHE:CG	2.50	0.46
2:B1:83:SER:CB	8:d8:27:LYS:CD	2.89	0.46
13:I1:202:CYC:HBD1	13:I1:202:CYC:CHA	2.28	0.46
13:M1:201:CYC:HHA	13:M1:201:CYC:CBA	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X1:83:CYS:HA	13:X1:201:CYC:HAC1	1.97	0.46
2:Y1:85:CYS:HA	13:Y1:201:CYC:HAC2	1.98	0.46
5:A2:226:VAL:HG21	7:X9:59:PHE:HD2	1.79	0.46
2:B2:76:ALA:HB2	13:B2:1001:CYC:C1C	2.46	0.46
3:E2:107:ASP:HA	3:E2:111:LEU:HB2	1.98	0.46
4:N2:238:ARG:CZ	4:N2:258:VAL:HG11	2.46	0.46
2:O2:31:ARG:HD3	2:O2:35:ALA:HB2	1.96	0.46
2:S2:29:ARG:HH21	2:S2:29:ARG:HG2	1.81	0.46
3:V2:58:ARG:NH1	2:W2:73:PRO:HB3	2.30	0.46
6:A3:16:ARG:HG2	6:A3:16:ARG:O	2.15	0.46
6:A3:63:ASN:ND2	6:A3:91:VAL:CG2	2.79	0.46
6:A3:71:GLN:HG2	6:A3:77:ILE:CD1	2.37	0.46
6:A3:125:ILE:CG2	3:C3:117:THR:CG2	2.93	0.46
2:B3:76:ALA:HB2	13:B3:1001:CYC:C1C	2.46	0.46
2:F3:34:ARG:HH12	2:F3:146:GLN:NE2	2.13	0.46
2:H3:31:ARG:HD2	2:H3:35:ALA:HB2	1.97	0.46
13:I3:201:CYC:HBA2	4:N3:263:TYR:CE1	2.51	0.46
2:J3:85:CYS:SG	13:J3:1001:CYC:H2C	2.55	0.46
2:J3:91:HIS:HB3	13:J3:1001:CYC:HAB1	1.97	0.46
2:L3:91:HIS:CG	13:L3:201:CYC:HBB3	2.51	0.46
13:C4:302:CYC:CMA	13:C4:302:CYC:HBA2	2.44	0.46
3:G4:78:ARG:HB3	3:G4:78:ARG:HH11	1.79	0.46
3:K4:82:ALA:O	3:K4:86:ASP:HB2	2.15	0.46
2:Y4:40:GLU:OE1	2:Y4:40:GLU:N	2.48	0.46
13:Z4:201:CYC:CMA	13:Z4:201:CYC:HBA2	2.45	0.46
5:A5:234:GLN:H	7:A9:66:VAL:HG11	1.75	0.46
3:R5:44:ARG:NH1	3:R5:145:ASP:CG	2.44	0.46
3:K6:82:ALA:HB1	13:K6:201:CYC:O2A	2.15	0.46
3:K6:107:ASP:HA	3:K6:111:LEU:HB2	1.97	0.46
3:M6:107:ASP:HA	3:M6:111:LEU:HB2	1.97	0.46
3:R6:85:ARG:C	3:R6:85:ARG:CD	2.86	0.46
2:Y6:74:GLN:NE2	2:Y6:123:PHE:O	2.49	0.46
6:A7:118:ALA:CB	6:A7:124:GLU:HG2	2.46	0.46
6:A7:129:ILE:HD13	3:C7:85:ARG:HH12	1.67	0.46
3:G7:44:ARG:HH21	3:G7:149:ILE:HG12	1.80	0.46
3:G7:107:ASP:HA	3:G7:111:LEU:HB2	1.97	0.46
13:I7:201:CYC:HBA2	4:N7:263:TYR:CE1	2.51	0.46
2:L7:91:HIS:CG	13:L7:201:CYC:HBB3	2.51	0.46
7:C8:12:ASP:OD2	8:D8:92:TYR:HE1	1.98	0.46
7:c8:21:GLY:O	7:c8:25:ARG:HG3	2.16	0.46
7:c8:101:VAL:HG11	7:j8:20:PRO:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g8:21:GLY:O	7:g8:25:ARG:HG3	2.15	0.46
9:i8:24:GLN:N	9:i8:24:GLN:CD	2.73	0.46
7:j8:21:GLY:O	7:j8:25:ARG:HG3	2.15	0.46
7:l8:21:GLY:O	7:l8:25:ARG:HG3	2.16	0.46
7:r8:21:GLY:O	7:r8:25:ARG:HG3	2.16	0.46
7:t8:83:ARG:NE	10:19:933:LEU:HB2	2.30	0.46
10:09:946:GLU:HA	10:09:950:GLY:HA2	1.98	0.46
10:19:631:ASP:OD2	10:19:635:LYS:NZ	2.49	0.46
8:J9:65:ASP:OD1	11:Q9:123:PRO:HB3	2.14	0.46
8:J9:78:ARG:HB3	13:J9:1001:CYC:HMD1	1.96	0.46
8:r9:78:ARG:HB3	13:r9:1001:CYC:HMD1	1.96	0.46
5:AA:17:VAL:HG23	13:AA:302:CYC:HMA1	1.96	0.46
2:HA:41:ALA:HB2	2:HA:147:ALA:HB1	1.96	0.46
3:MA:74:ALA:HB2	13:MA:1002:CYC:C1C	2.46	0.46
4:NA:94:ARG:NH1	4:NA:97:GLU:OE2	2.48	0.46
13:UA:1001:CYC:C4B	3:ZA:77:ASN:OD1	2.64	0.46
5:A2:223:ALA:O	5:A2:226:VAL:CG1	2.63	0.46
5:A2:243:TYR:CB	7:J8:82:LEU:HB2	2.46	0.46
2:F2:34:ARG:HH12	2:F2:146:GLN:NE2	2.13	0.46
4:N2:219:ASP:OD2	4:N2:219:ASP:N	2.49	0.46
2:S2:31:ARG:O	2:S2:35:ALA:HB2	2.15	0.46
3:T2:154:CYS:CB	13:T2:201:CYC:CBC	2.92	0.46
13:U2:201:CYC:CMA	13:U2:201:CYC:HBA2	2.45	0.46
3:E3:73:ASN:O	13:E3:201:CYC:HMD2	2.14	0.46
2:L3:6:ILE:CD1	2:L3:32:TYR:HE1	2.28	0.46
2:F4:85:CYS:SG	13:F4:1001:CYC:CAC	3.01	0.46
4:N4:22:GLU:HA	4:N4:146:ASN:O	2.16	0.46
13:X4:202:CYC:CMA	13:X4:202:CYC:HBA2	2.45	0.46
2:Y4:85:CYS:HA	13:Y4:201:CYC:HAC2	1.98	0.46
3:C5:77:ASN:OD1	13:D5:1001:CYC:C4B	2.64	0.46
13:M5:1002:CYC:OB	4:N5:253:ARG:HG3	2.15	0.46
4:N5:93:THR:HA	4:N5:96:ILE:HG22	1.98	0.46
3:X5:149:ILE:CD1	3:X5:149:ILE:H	2.28	0.46
3:Z5:40:ASP:OD2	3:Z5:40:ASP:N	2.39	0.46
13:Z5:202:CYC:HBA2	13:Z5:202:CYC:HMA3	1.95	0.46
2:D6:29:ARG:CD	2:D6:29:ARG:C	2.88	0.46
3:E6:107:ASP:HA	3:E6:111:LEU:HB2	1.97	0.46
2:L6:29:ARG:NH1	13:M6:201:CYC:HMD1	2.22	0.46
3:M6:85:ARG:HD2	3:M6:85:ARG:C	2.41	0.46
2:O6:14:ASP:HA	3:P6:92:ARG:HH21	1.80	0.46
3:X6:58:ARG:HH21	2:Y6:73:PRO:HG2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A7:301:CYC:CMD	3:C7:82:ALA:HB3	2.45	0.46
3:G7:152:GLY:N	13:G7:202:CYC:CMD	2.78	0.46
2:H7:85:CYS:HA	13:H7:1001:CYC:CAC	2.43	0.46
7:E8:21:GLY:O	7:E8:25:ARG:HG3	2.16	0.46
8:T8:68:ARG:NH2	5:AA:249:ASN:CB	2.66	0.46
7:e8:126:VAL:HA	13:e8:1001:CYC:HBC2	1.96	0.46
7:j8:126:VAL:HA	13:j8:1001:CYC:HBC2	1.96	0.46
8:u8:82:CYS:SG	13:19:1201:CYC:HAC1	2.51	0.46
10:09:277:THR:O	10:09:277:THR:OG1	2.30	0.46
9:49:22:GLU:OE2	9:49:25:ASN:OD1	2.34	0.46
7:C9:60:GLN:C	7:C9:60:GLN:HE21	2.24	0.46
7:w9:59:PHE:CA	5:AA:228:ASN:ND2	2.77	0.46
7:w9:83:ARG:HB2	5:AA:219:PHE:CD1	2.50	0.46
3:CA:75:TYR:HH	2:DA:94:ARG:NH1	2.12	0.46
3:VA:50:SER:O	3:VA:54:THR:OG1	2.32	0.46
3:ZA:53:VAL:HG13	3:ZA:87:MET:HB3	1.96	0.46
3:K1:68:ILE:HD13	13:L1:201:CYC:O2A	1.98	0.46
13:Q1:202:CYC:CMA	13:Q1:202:CYC:HBA2	2.45	0.46
5:A2:199:ASP:OD1	5:A2:199:ASP:N	2.49	0.46
3:C2:33:LYS:O	3:C2:33:LYS:HD2	2.15	0.46
3:G2:82:ALA:CB	13:G2:202:CYC:CMD	2.84	0.46
3:M2:85:ARG:C	3:M2:85:ARG:HD2	2.41	0.46
3:V2:44:ARG:HH22	3:V2:149:ILE:CG1	2.19	0.46
6:A3:80:ARG:HD2	6:A3:144:LEU:CD1	2.46	0.46
6:A3:92:TYR:C	6:A3:92:TYR:CD2	2.93	0.46
2:B3:85:CYS:SG	13:B3:1001:CYC:CAC	3.03	0.46
3:C3:114:LEU:CD2	3:C3:172:VAL:HG22	2.41	0.46
13:E3:202:CYC:HBA2	13:E3:202:CYC:HMA3	1.95	0.46
13:I4:202:CYC:CMA	13:I4:202:CYC:HBA2	2.45	0.46
3:M4:36:ASN:ND2	13:M4:202:CYC:C3D	2.79	0.46
3:M4:78:ARG:HG3	3:M4:79:ARG:N	2.31	0.46
2:O4:22:ASN:HD21	2:W4:150:GLU:CD	2.24	0.46
5:A5:205:LYS:HZ3	8:z9:63:TYR:HA	1.45	0.46
2:B5:32:TYR:CZ	3:C5:35:GLY:HA3	2.50	0.46
3:C5:40:ASP:OD2	3:C5:40:ASP:N	2.39	0.46
2:H5:61:TYR:HH	2:H5:85:CYS:HG	1.54	0.46
3:K5:108:ASP:OD1	3:K5:112:ASN:ND2	2.48	0.46
2:L5:41:ALA:HB2	2:L5:147:ALA:HB1	1.96	0.46
3:Z5:83:CYS:HB3	13:Z5:201:CYC:HAC2	1.96	0.46
3:E6:43:ASN:O	3:E6:47:SER:OG	2.29	0.46
3:G6:82:ALA:HB3	13:G6:202:CYC:C2D	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X6:87:MET:SD	13:X6:201:CYC:CBC	3.04	0.46
2:F7:30:GLY:CA	2:L7:30:GLY:CA	2.94	0.46
2:J7:85:CYS:SG	13:J7:1001:CYC:H2C	2.55	0.46
7:J8:71:ASN:ND2	7:J8:121:THR:OG1	2.49	0.46
7:O8:21:GLY:O	7:O8:25:ARG:HG3	2.15	0.46
7:Q8:49:ARG:CZ	8:q8:115:GLU:OE2	2.64	0.46
7:S8:21:GLY:O	7:S8:25:ARG:HG3	2.16	0.46
7:V8:21:GLY:O	7:V8:25:ARG:HG3	2.15	0.46
7:g8:143:ALA:HB1	7:d9:45:ASP:OD1	2.15	0.46
7:j8:71:ASN:ND2	7:j8:121:THR:OG1	2.49	0.46
13:s8:1001:CYC:CGD	10:19:948:GLY:HA3	2.43	0.46
10:19:759:PRO:HB3	8:t9:80:ALA:HB1	1.97	0.46
8:B9:30:ALA:O	8:B9:34:THR:OG1	2.32	0.46
7:C9:16:ARG:NH2	7:C9:17:TYR:O	2.46	0.46
7:E9:90:ARG:CZ	8:F9:17:GLY:HA2	2.46	0.46
2:HA:93:LEU:O	2:HA:97:THR:OG1	2.33	0.46
2:OA:26:GLN:CG	2:WA:34:ARG:HG2	2.46	0.46
13:RA:201:CYC:CAB	2:UA:34:ARG:NE	2.74	0.46
2:UA:41:ALA:HB2	2:UA:147:ALA:HB1	1.96	0.46
3:VA:40:ASP:OD1	13:VA:202:CYC:HHB	2.15	0.46
3:VA:68:ILE:CD1	13:WA:1001:CYC:O2A	2.64	0.46
3:XA:108:ASP:OD1	3:XA:112:ASN:ND2	2.48	0.46
3:XA:157:LEU:C	3:XA:157:LEU:CD1	2.86	0.46
1:A1:161:GLN:HE22	1:A1:170:PHE:H	1.63	0.46
3:G1:123:THR:CG2	3:G1:124:PRO:HD2	2.46	0.46
2:H1:85:CYS:HA	13:H1:1001:CYC:HAC2	1.97	0.46
3:K1:64:GLN:CD	3:T1:16:ARG:HH12	2.23	0.46
3:X1:36:ASN:HD21	13:X1:202:CYC:HAD1	1.79	0.46
3:K2:38:ARG:CG	3:K2:38:ARG:NH1	2.72	0.46
3:K2:43:ASN:CG	13:K2:202:CYC:HBC3	2.39	0.46
3:K2:82:ALA:HB1	13:K2:201:CYC:O2A	2.15	0.46
4:N2:237:TYR:CD1	4:N2:285:SER:HB2	2.50	0.46
3:P2:85:ARG:O	3:P2:89:ILE:HG13	2.16	0.46
2:S2:34:ARG:NH2	2:S2:146:GLN:HE21	2.12	0.46
2:J3:88:ASP:OD1	13:J3:1001:CYC:HHB	2.16	0.46
1:A4:32:ARG:HG2	1:A4:34:GLU:HG2	1.97	0.46
1:A4:65:GLN:N	1:A4:65:GLN:CD	2.73	0.46
3:C4:83:CYS:HB2	13:C4:301:CYC:CMD	2.46	0.46
2:O4:29:ARG:HD3	13:P4:202:CYC:C1C	2.43	0.46
3:T4:127:SER:C	13:T4:202:CYC:HBB1	2.40	0.46
3:V4:74:ALA:HB2	13:V4:202:CYC:OB	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A5:304:CYC:HMC3	3:K5:89:ILE:CG1	2.21	0.46
3:C5:68:ILE:HD11	13:D5:1001:CYC:CGA	2.32	0.46
2:D5:14:ASP:OD2	3:E5:109:ARG:NH1	2.48	0.46
3:I5:147:ASN:OD1	3:I5:147:ASN:N	2.49	0.46
3:M5:108:ASP:OD1	3:M5:112:ASN:ND2	2.48	0.46
3:M5:167:ARG:NH2	3:R5:115:ARG:HH22	2.14	0.46
3:P5:50:SER:O	3:P5:54:THR:OG1	2.32	0.46
3:R5:154:CYS:HB3	13:R5:201:CYC:CBC	2.45	0.46
3:C6:114:LEU:HD23	3:C6:172:VAL:CG2	2.43	0.46
3:G6:82:ALA:CB	13:G6:202:CYC:HMD1	2.23	0.46
4:N6:237:TYR:CD1	4:N6:285:SER:HB2	2.50	0.46
3:P6:43:ASN:O	3:P6:47:SER:OG	2.27	0.46
3:T6:154:CYS:CB	13:T6:201:CYC:CBC	2.92	0.46
3:V6:107:ASP:HA	3:V6:111:LEU:HB2	1.97	0.46
13:W6:201:CYC:CBD	13:W6:201:CYC:CHA	2.86	0.46
3:Z6:154:CYS:SG	13:Z6:201:CYC:HAB1	2.55	0.46
6:A7:80:ARG:HD2	6:A7:144:LEU:CD1	2.46	0.46
2:F7:14:ASP:OD1	3:G7:92:ARG:NH2	2.49	0.46
3:I7:41:VAL:HG22	13:I7:202:CYC:HMB3	1.96	0.46
4:N7:237:TYR:CD1	4:N7:285:SER:HB2	2.50	0.46
7:J8:21:GLY:O	7:J8:25:ARG:HG3	2.16	0.46
7:S8:71:ASN:ND2	7:S8:121:THR:OG1	2.49	0.46
9:U8:46:LYS:CE	10:09:848:GLN:HE21	2.26	0.46
7:X8:71:ASN:ND2	7:X8:121:THR:OG1	2.49	0.46
7:t8:71:ASN:ND2	7:t8:121:THR:OG1	2.49	0.46
10:09:708:GLN:HA	10:09:711:ILE:HB	1.98	0.46
2:BA:32:TYR:CZ	3:CA:35:GLY:HA3	2.50	0.46
3:CA:77:ASN:OD1	13:DA:1001:CYC:C4B	2.64	0.46
2:HA:32:TYR:CE1	3:IA:35:GLY:HA3	2.51	0.46
4:NA:48:TYR:CG	3:PA:85:ARG:HD3	2.51	0.46
1:A1:59:ILE:C	1:A1:59:ILE:CD1	2.86	0.46
1:A1:201:LEU:CD2	7:c8:52:LYS:HE3	2.46	0.46
2:B1:18:ARG:NH1	2:J1:109:ASP:OD1	2.49	0.46
2:B1:40:GLU:OE1	2:B1:40:GLU:N	2.47	0.46
3:E1:89:ILE:HG21	13:E1:201:CYC:HBB3	1.98	0.46
3:I1:68:ILE:HD13	13:J1:1001:CYC:O2A	2.15	0.46
3:K1:60:LEU:HD21	13:K1:201:CYC:HBB1	1.97	0.46
3:M1:36:ASN:ND2	13:M1:202:CYC:C3D	2.79	0.46
2:O1:22:ASN:ND2	2:W1:150:GLU:OE2	2.45	0.46
3:T1:83:CYS:O	3:T1:87:MET:HG2	2.16	0.46
3:V1:37:LYS:O	3:V1:41:VAL:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:X1:202:CYC:CMA	13:X1:202:CYC:HBA2	2.45	0.46
13:G2:201:CYC:HBD1	13:G2:201:CYC:CHA	2.28	0.46
13:K2:201:CYC:HBD1	13:K2:201:CYC:CHA	2.28	0.46
3:V2:83:CYS:HB3	13:V2:202:CYC:C1B	2.46	0.46
13:A3:301:CYC:CMD	3:C3:82:ALA:HB3	2.45	0.46
3:E3:154:CYS:CB	13:E3:202:CYC:H2C	2.42	0.46
2:B4:3:LYS:HE2	2:J4:16:GLN:HE22	1.79	0.46
3:G4:123:THR:CG2	3:G4:124:PRO:HD2	2.46	0.46
3:K5:77:ASN:OD1	13:L5:201:CYC:NB	2.44	0.46
3:R5:50:SER:O	3:R5:54:THR:OG1	2.32	0.46
5:A6:17:VAL:HG11	3:E6:85:ARG:NH1	2.31	0.46
2:F6:94:ARG:HH21	3:G6:14:ASP:HA	1.80	0.46
3:M6:44:ARG:CZ	3:M6:149:ILE:HG13	2.44	0.46
4:N6:97:GLU:HB2	4:N6:171:LEU:HD11	1.98	0.46
4:N6:261:VAL:HG11	4:N6:269:LYS:HG2	1.98	0.46
2:S6:29:ARG:HH21	2:S6:29:ARG:HG2	1.81	0.46
2:U6:32:TYR:N	2:U6:32:TYR:HD1	2.13	0.46
2:U6:76:ALA:N	13:U6:202:CYC:OC	2.49	0.46
2:L7:34:ARG:NH2	2:L7:150:GLU:HG2	2.31	0.46
4:N7:238:ARG:CZ	4:N7:258:VAL:HG11	2.46	0.46
7:A8:71:ASN:ND2	7:A8:121:THR:OG1	2.49	0.46
7:C8:21:GLY:O	7:C8:25:ARG:HG3	2.16	0.46
7:L8:71:ASN:ND2	7:L8:121:THR:OG1	2.49	0.46
8:R8:109:VAL:CG1	13:R8:1001:CYC:CAB	2.73	0.46
7:e8:71:ASN:ND2	7:e8:121:THR:OG1	2.49	0.46
9:39:5:PHE:HZ	8:n9:120:LEU:HD21	1.81	0.46
8:D9:78:ARG:HB3	13:D9:1001:CYC:HMD1	1.96	0.46
8:L9:30:ALA:O	8:L9:34:THR:OG1	2.32	0.46
8:L9:135:LYS:NZ	8:L9:155:ASP:OD2	2.43	0.46
8:c9:30:ALA:O	8:c9:34:THR:OG1	2.33	0.46
8:t9:129:GLN:HE22	5:AA:212:ARG:NH1	2.13	0.46
5:AA:35:ILE:HG22	5:AA:158:ASN:HB3	1.97	0.46
13:AA:304:CYC:C4B	3:KA:74:ALA:HB2	2.29	0.46
3:KA:50:SER:O	3:KA:54:THR:OG1	2.32	0.46
4:NA:170:ARG:HE	4:NA:189:ARG:HG2	1.80	0.46
3:PA:58:ARG:NE	2:QA:73:PRO:HB2	2.31	0.46
3:C1:82:ALA:O	3:C1:86:ASP:HB2	2.16	0.46
3:I1:68:ILE:CD1	13:J1:1001:CYC:O2A	2.64	0.46
2:J1:29:ARG:HD3	13:K1:202:CYC:OC	2.16	0.46
2:W1:143:LEU:HG	2:W1:148:ALA:HB2	1.97	0.46
5:A2:57:SER:HB3	13:G2:202:CYC:O1A	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D2:31:ARG:HD2	2:D2:35:ALA:HB2	1.97	0.46
2:J2:88:ASP:OD1	13:J2:1001:CYC:HHB	2.16	0.46
4:N2:166:ASN:HD22	4:N2:199:ALA:HB1	1.81	0.46
3:T2:107:ASP:HA	3:T2:111:LEU:HB2	1.97	0.46
2:U2:76:ALA:N	13:U2:202:CYC:OC	2.49	0.46
3:Z2:107:ASP:HA	3:Z2:111:LEU:HB2	1.97	0.46
3:Z2:154:CYS:SG	13:Z2:201:CYC:CAB	3.04	0.46
2:F3:14:ASP:OD1	3:G3:92:ARG:NH2	2.49	0.46
3:K3:57:ALA:O	3:K3:61:PHE:HD2	1.99	0.46
3:M3:85:ARG:C	3:M3:85:ARG:HD2	2.41	0.46
2:Q4:3:LYS:HE2	2:U4:16:GLN:HE22	1.80	0.46
3:T4:85:ARG:NH2	3:T4:86:ASP:OD1	2.49	0.46
2:W4:143:LEU:HG	2:W4:148:ALA:HB2	1.97	0.46
5:A5:234:GLN:O	5:A5:235:ARG:CB	2.64	0.46
5:A5:249:ASN:HB2	8:F9:68:ARG:HH22	1.75	0.46
2:D5:28:ALA:O	2:D5:32:TYR:CD2	2.68	0.46
3:P5:77:ASN:ND2	2:Q5:119:ILE:HD12	2.31	0.46
13:U5:1001:CYC:C4B	3:Z5:77:ASN:OD1	2.64	0.46
2:W5:93:LEU:O	2:W5:97:THR:OG1	2.33	0.46
3:X5:108:ASP:OD1	3:X5:112:ASN:ND2	2.48	0.46
3:X5:142:ILE:HD13	3:X5:142:ILE:HA	1.76	0.46
5:A6:149:GLU:HB3	5:A6:153:LYS:HE3	1.97	0.46
2:L6:91:HIS:CG	13:L6:201:CYC:HBB3	2.51	0.46
4:N6:166:ASN:HD22	4:N6:199:ALA:HB1	1.81	0.46
4:N6:219:ASP:OD2	4:N6:219:ASP:N	2.49	0.46
2:S6:31:ARG:O	2:S6:35:ALA:HB2	2.15	0.46
2:S6:154:TYR:CZ	2:Y6:22:ASN:ND2	2.69	0.46
3:V6:145:ASP:HA	3:V6:146:PRO:HD3	1.78	0.46
6:A7:87:GLY:C	6:A7:140:ILE:CD1	2.89	0.46
6:A7:125:ILE:CG2	3:C7:117:THR:CG2	2.93	0.46
2:J7:88:ASP:OD1	13:J7:1001:CYC:HHB	2.16	0.46
2:J7:91:HIS:HB3	13:J7:1001:CYC:HAB1	1.97	0.46
9:G8:3:ARG:HH21	9:G8:67:LEU:HB2	1.81	0.46
9:N8:5:PHE:HE2	9:N8:34:TYR:HD2	1.63	0.46
7:Q8:71:ASN:ND2	7:Q8:121:THR:OG1	2.49	0.46
10:09:415:ARG:HB3	11:Q9:111:GLN:HB2	1.98	0.46
10:09:445:ARG:HH22	8:L9:114:LYS:HD2	1.81	0.46
9:29:38:PHE:HZ	8:W9:88:TYR:HE2	1.63	0.46
7:R9:110:ILE:HG23	8:W9:77:ARG:HB3	1.97	0.46
7:u9:87:TYR:HB3	13:u9:1001:CYC:HBB3	1.98	0.46
4:NA:93:THR:HA	4:NA:96:ILE:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:10:ILE:HD13	3:PA:96:TYR:HB3	1.96	0.46
3:PA:154:CYS:HB2	13:PA:202:CYC:C3B	2.45	0.46
3:RA:149:ILE:HD12	3:RA:149:ILE:H	1.79	0.46
2:UA:32:TYR:CD1	3:VA:35:GLY:HA3	2.51	0.46
2:YA:31:ARG:NH2	2:YA:31:ARG:C	2.73	0.46
3:ZA:83:CYS:HB3	13:ZA:201:CYC:HAC2	1.96	0.46
3:K1:85:ARG:NH2	3:K1:86:ASP:OD1	2.49	0.46
5:A2:195:ARG:HH12	3:G2:66:GLN:NE2	2.09	0.46
3:E2:154:CYS:CB	13:E2:202:CYC:H2C	2.42	0.46
2:F2:14:ASP:OD1	3:G2:92:ARG:NH2	2.49	0.46
2:F2:94:ARG:HH21	3:G2:14:ASP:HA	1.80	0.46
3:G2:107:ASP:HA	3:G2:111:LEU:HB2	1.97	0.46
2:L2:129:TRP:CE3	13:L2:201:CYC:HMC3	2.51	0.46
4:N2:261:VAL:HG11	4:N2:269:LYS:HG2	1.98	0.46
2:W2:88:ASP:OD1	13:W2:202:CYC:CHB	2.64	0.46
3:Z2:43:ASN:ND2	13:Z2:201:CYC:HBC3	2.20	0.46
4:N3:238:ARG:CZ	4:N3:258:VAL:HG11	2.46	0.46
1:A4:161:GLN:HE22	1:A4:170:PHE:H	1.63	0.46
2:D4:88:ASP:OD1	13:D4:1001:CYC:CHB	2.65	0.46
3:I4:68:ILE:CD1	13:J4:1001:CYC:O2A	2.64	0.46
2:L4:143:LEU:CG	2:L4:148:ALA:HB2	2.45	0.46
2:B5:85:CYS:HA	13:B5:1001:CYC:HAC2	1.99	0.46
3:G5:152:GLY:CA	13:G5:201:CYC:HMD1	2.29	0.46
3:T5:53:VAL:HG13	3:T5:87:MET:HB3	1.96	0.46
2:U5:32:TYR:CD1	3:V5:35:GLY:HA3	2.51	0.46
3:G6:44:ARG:HH21	3:G6:149:ILE:HG12	1.80	0.46
13:I6:201:CYC:HBA2	4:N6:263:TYR:CE1	2.51	0.46
3:P6:85:ARG:O	3:P6:89:ILE:HG13	2.16	0.46
2:F7:3:LYS:HG2	2:L7:23:THR:HG21	1.96	0.46
2:L7:98:TYR:OH	3:M7:18:GLU:O	2.28	0.46
3:M7:109:ARG:O	13:N7:301:CYC:CAB	2.63	0.46
4:N7:246:SER:HB3	4:N7:252:VAL:HG12	1.97	0.46
7:A8:21:GLY:O	7:A8:25:ARG:HG3	2.16	0.46
7:C8:71:ASN:ND2	7:C8:121:THR:OG1	2.49	0.46
7:J8:69:GLY:CA	7:X9:63:PRO:HD2	2.45	0.46
8:R8:82:CYS:SG	13:R8:1001:CYC:HAC1	2.51	0.46
7:n8:71:ASN:ND2	7:n8:121:THR:OG1	2.49	0.46
7:r8:71:ASN:ND2	7:r8:121:THR:OG1	2.49	0.46
8:u8:15:VAL:HG13	10:19:942:GLY:H	1.67	0.46
10:09:13:ARG:HA	10:09:14:PRO:HD3	1.57	0.46
10:09:27:GLN:NE2	7:T9:16:ARG:HH11	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:19:730:LYS:HG2	10:19:732:VAL:HG13	1.98	0.46
13:19:1204:CYC:HMD1	8:a9:78:ARG:HB3	1.96	0.46
8:B9:78:ARG:HB3	13:B9:1001:CYC:HMD1	1.97	0.46
7:f9:87:TYR:HB3	13:f9:1001:CYC:HBB3	1.98	0.46
7:q9:16:ARG:NH2	7:q9:17:TYR:O	2.46	0.46
8:v9:78:ARG:HB3	13:v9:1001:CYC:HMD1	1.96	0.46
5:AA:38:VAL:CG2	5:AA:44:ILE:HD11	2.46	0.46
5:AA:61:ILE:HD11	3:GA:85:ARG:HH12	1.63	0.46
5:AA:78:SER:OG	4:NA:225:ASN:HB2	2.15	0.46
3:EA:142:ILE:HA	3:EA:142:ILE:HD13	1.76	0.46
2:HA:34:ARG:NE	2:HA:150:GLU:CD	2.74	0.46
2:LA:94:ARG:NH2	3:MA:17:GLY:HA2	2.31	0.46
3:MA:167:ARG:NH2	3:RA:115:ARG:HH22	2.14	0.46
1:A1:32:ARG:HG2	1:A1:34:GLU:HG2	1.97	0.45
1:A1:65:GLN:N	1:A1:65:GLN:CD	2.73	0.45
1:A1:198:PHE:CE2	7:c8:83:ARG:HA	2.51	0.45
3:K1:111:LEU:HD21	3:K1:168:ALA:HA	1.96	0.45
3:Z1:154:CYS:SG	13:Z1:201:CYC:HAB1	2.56	0.45
5:A2:17:VAL:HG11	3:E2:85:ARG:NH1	2.31	0.45
3:G2:87:MET:HE1	13:G2:202:CYC:CBC	2.44	0.45
2:H2:74:GLN:OE1	2:H2:124:ASP:CB	2.61	0.45
3:K2:109:ARG:O	13:K2:201:CYC:HBC1	2.16	0.45
2:L2:34:ARG:NH2	2:L2:150:GLU:HG2	2.31	0.45
2:L2:91:HIS:CG	13:L2:201:CYC:HBB3	2.51	0.45
13:N2:301:CYC:HHA	13:N2:301:CYC:CBA	2.26	0.45
2:F3:94:ARG:HH21	3:G3:14:ASP:HA	1.80	0.45
3:I3:146:PRO:CB	3:I3:151:LYS:HE2	2.46	0.45
3:M3:109:ARG:O	13:N3:301:CYC:CAB	2.63	0.45
3:E4:89:ILE:HG21	13:E4:201:CYC:HBB3	1.98	0.45
3:G4:73:ASN:HD22	13:G4:202:CYC:C1C	2.29	0.45
4:N4:238:ARG:HG3	4:N4:260:ILE:HG12	1.98	0.45
3:E5:157:LEU:C	3:E5:157:LEU:CD2	2.85	0.45
3:E5:157:LEU:O	3:E5:160:GLU:N	2.49	0.45
2:F5:62:GLN:HB3	3:G7:66:GLN:HG3	1.98	0.45
2:F5:103:GLY:O	2:L5:26:GLN:NE2	2.40	0.45
2:H5:32:TYR:CE1	3:I5:35:GLY:HA3	2.51	0.45
3:K5:44:ARG:HH21	3:K5:149:ILE:HD11	1.80	0.45
2:L5:85:CYS:HA	13:L5:201:CYC:HAC2	1.98	0.45
2:O5:26:GLN:HG2	2:W5:34:ARG:HG2	1.97	0.45
3:P5:149:ILE:CD1	3:P5:149:ILE:H	2.29	0.45
5:A6:243:TYR:HB3	7:C8:82:LEU:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:76:ALA:HB2	13:B6:1001:CYC:C1C	2.46	0.45
3:K6:144:ASN:ND2	3:K6:158:ILE:HD13	2.30	0.45
4:N6:94:ARG:HD3	4:N6:188:SER:HA	1.98	0.45
13:N6:302:CYC:CMC	3:T6:89:ILE:HG21	2.46	0.45
3:P6:37:LYS:CG	3:P6:154:CYS:SG	3.05	0.45
3:R6:78:ARG:NH2	2:S6:110:GLU:OE2	2.50	0.45
3:V6:83:CYS:HB3	13:V6:202:CYC:C1B	2.46	0.45
6:A7:52:GLN:HE21	6:A7:52:GLN:CA	2.26	0.45
7:E8:49:ARG:NH2	8:n9:140:SER:O	2.49	0.45
7:J8:16:ARG:C	8:K8:91:ARG:HD2	2.40	0.45
7:J8:70:GLY:N	7:X9:64:ASP:OD1	2.49	0.45
7:O8:71:ASN:ND2	7:O8:121:THR:OG1	2.49	0.45
7:V8:71:ASN:ND2	7:V8:121:THR:OG1	2.49	0.45
13:d8:1001:CYC:HB	10:09:1001:SER:CB	2.23	0.45
7:j8:125:ALA:HB3	13:j8:1001:CYC:CMC	2.37	0.45
8:k8:82:CYS:SG	13:k8:1001:CYC:HAC1	2.51	0.45
7:n8:110:ILE:HD13	10:09:954:ARG:HD2	1.88	0.45
9:29:22:GLU:HA	9:29:22:GLU:OE1	2.15	0.45
7:q9:87:TYR:HB3	13:q9:1001:CYC:HBB3	1.98	0.45
3:KA:44:ARG:HH21	3:KA:149:ILE:HD11	1.80	0.45
3:PA:77:ASN:ND2	2:QA:119:ILE:HD12	2.31	0.45
2:UA:85:CYS:HA	13:UA:1001:CYC:HAC2	1.98	0.45
2:YA:29:ARG:NH1	2:YA:33:GLU:OE2	2.49	0.45
2:YA:85:CYS:HA	13:YA:201:CYC:HAC2	1.98	0.45
1:A1:198:PHE:CD1	7:c8:82:LEU:C	2.94	0.45
3:C1:85:ARG:NH2	3:C1:86:ASP:OD1	2.50	0.45
2:D1:143:LEU:HG	2:D1:148:ALA:HB2	1.98	0.45
3:T1:85:ARG:NH2	3:T1:86:ASP:OD1	2.49	0.45
3:T1:127:SER:C	13:T1:202:CYC:HBB1	2.40	0.45
5:A2:198:LEU:HD22	7:d9:82:LEU:HD11	1.98	0.45
5:A2:215:ASP:CG	8:c9:68:ARG:HH21	2.24	0.45
2:F2:30:GLY:CA	2:L2:30:GLY:CA	2.94	0.45
3:G2:70:PRO:HG2	7:d9:68:PRO:HG2	1.97	0.45
4:N2:63:ARG:CG	13:V2:202:CYC:O2D	2.58	0.45
3:P2:37:LYS:CG	3:P2:154:CYS:SG	3.04	0.45
3:R2:78:ARG:NH2	2:S2:110:GLU:OE2	2.49	0.45
6:A3:101:SER:HB2	3:C3:112:ASN:HD22	1.75	0.45
3:E3:43:ASN:O	3:E3:47:SER:OG	2.29	0.45
3:K3:83:CYS:HA	13:K3:201:CYC:HMB3	1.98	0.45
2:B4:94:ARG:CG	3:C4:19:PHE:CE1	2.99	0.45
3:E4:85:ARG:NH2	3:E4:86:ASP:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H4:123:PHE:CD2	13:H4:1001:CYC:HAA2	2.52	0.45
5:A5:68:LYS:HE3	5:A5:68:LYS:HB3	1.74	0.45
5:A5:79:ILE:O	5:A5:79:ILE:HG13	2.15	0.45
3:E5:154:CYS:CB	13:E5:201:CYC:CBC	2.95	0.45
3:M5:110:CYS:HA	13:M5:1002:CYC:HBB1	1.98	0.45
3:P5:77:ASN:HD22	2:Q5:119:ILE:HD12	1.82	0.45
3:R5:149:ILE:HD12	3:R5:149:ILE:H	1.79	0.45
3:T5:127:SER:C	13:T5:201:CYC:HBB1	2.42	0.45
2:W5:85:CYS:HA	13:W5:1001:CYC:HAC2	1.98	0.45
2:F6:30:GLY:CA	2:L6:30:GLY:CA	2.94	0.45
3:G6:107:ASP:HA	3:G6:111:LEU:HB2	1.97	0.45
3:G6:150:THR:HG1	13:G6:201:CYC:HAD1	1.75	0.45
2:S6:28:ALA:O	2:S6:32:TYR:CD2	2.69	0.45
3:V6:58:ARG:NH1	2:W6:73:PRO:HB3	2.30	0.45
3:X6:58:ARG:HH21	2:Y6:73:PRO:CG	2.29	0.45
3:X6:107:ASP:HA	3:X6:111:LEU:HB2	1.97	0.45
3:I7:107:ASP:HA	3:I7:111:LEU:HB2	1.97	0.45
2:L7:61:TYR:OH	2:L7:85:CYS:SG	2.71	0.45
9:G8:36:ASN:CG	10:09:586:ARG:NH1	2.75	0.45
9:U8:46:LYS:CE	10:09:848:GLN:NE2	2.79	0.45
7:g8:71:ASN:ND2	7:g8:121:THR:OG1	2.49	0.45
9:i8:30:LYS:CG	10:09:1012:GLU:OE2	2.64	0.45
7:p8:21:GLY:O	7:p8:25:ARG:HG3	2.16	0.45
7:p8:114:GLU:CD	10:19:990:VAL:HG21	2.41	0.45
8:q8:11:ASN:HD21	10:19:1120:LEU:HA	1.30	0.45
10:09:466:ALA:HB2	10:09:598:TYR:HE1	1.81	0.45
10:09:1045:LEU:HD23	10:09:1047:ARG:HH22	1.81	0.45
7:A9:87:TYR:HB3	13:A9:1001:CYC:HBB3	1.98	0.45
8:H9:30:ALA:O	8:H9:34:THR:OG1	2.32	0.45
7:o9:87:TYR:HB3	13:o9:1001:CYC:HBB3	1.98	0.45
7:w9:87:TYR:HB3	13:w9:1001:CYC:HBB3	1.98	0.45
3:EA:157:LEU:O	3:EA:160:GLU:N	2.49	0.45
4:NA:237:TYR:CD2	4:NA:263:TYR:CD1	3.05	0.45
3:PA:68:ILE:HD12	13:PA:203:CYC:O2A	2.06	0.45
1:A1:201:LEU:HD21	7:c8:52:LYS:HG3	1.91	0.45
3:P2:107:ASP:HA	3:P2:111:LEU:HB2	1.97	0.45
3:X2:107:ASP:HA	3:X2:111:LEU:HB2	1.97	0.45
6:A3:71:GLN:HB3	6:A3:77:ILE:HD12	1.95	0.45
3:G3:72:GLY:N	2:FA:62:GLN:OE1	2.49	0.45
2:L3:129:TRP:CE3	13:L3:201:CYC:HMC3	2.51	0.45
4:N3:239:LEU:HD22	4:N3:283:VAL:HG22	1.93	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:85:ARG:NH2	3:C4:86:ASP:OD1	2.49	0.45
3:M4:79:ARG:O	3:M4:82:ALA:HB3	2.17	0.45
2:O4:40:GLU:OE1	2:O4:40:GLU:N	2.48	0.45
3:T4:154:CYS:SG	3:T4:158:ILE:HD11	2.57	0.45
3:Z4:128:VAL:HG22	13:Z4:202:CYC:H3C	1.98	0.45
5:A5:174:LEU:HD21	3:G5:112:ASN:O	2.16	0.45
2:J5:16:GLN:HB3	2:J5:18:ARG:HD3	1.99	0.45
4:N5:67:LEU:HD23	4:N5:67:LEU:HA	1.79	0.45
5:A6:223:ALA:C	5:A6:226:VAL:HG12	2.41	0.45
5:A6:241:ILE:HD12	7:C8:82:LEU:HD11	1.99	0.45
3:K6:87:MET:HE2	13:K6:201:CYC:CMB	2.46	0.45
3:Z6:154:CYS:SG	13:Z6:201:CYC:CAB	3.04	0.45
6:A7:14:ASN:HA	13:E7:201:CYC:C3A	2.24	0.45
2:B7:123:PHE:HE2	13:B7:1001:CYC:HAA1	1.74	0.45
13:G7:202:CYC:CBD	13:G7:202:CYC:CHA	2.85	0.45
7:H8:125:ALA:HB3	13:H8:1001:CYC:CMC	2.37	0.45
7:L8:21:GLY:O	7:L8:25:ARG:HG3	2.16	0.45
7:S8:25:ARG:HD2	7:w9:25:ARG:NE	2.29	0.45
7:Z8:21:GLY:O	7:Z8:25:ARG:HG3	2.15	0.45
7:e8:21:GLY:O	7:e8:25:ARG:HG3	2.16	0.45
7:p8:71:ASN:ND2	7:p8:121:THR:OG1	2.49	0.45
10:09:38:GLY:HA3	7:T9:3:ILE:HD11	1.99	0.45
10:09:498:ASN:HD21	10:09:509:LEU:HD23	1.81	0.45
10:09:1111:ASP:OD1	10:09:1112:LEU:N	2.50	0.45
7:X9:87:TYR:HB3	13:X9:1001:CYC:HBB3	1.98	0.45
7:d9:87:TYR:HB3	13:d9:1001:CYC:HBB3	1.98	0.45
11:g9:97:LEU:HD23	11:g9:97:LEU:HA	1.80	0.45
11:g9:129:ARG:O	11:g9:129:ARG:NH1	2.49	0.45
8:j9:78:ARG:HB3	13:j9:1001:CYC:HMD1	1.96	0.45
12:m9:48:LYS:HD2	12:m9:48:LYS:HA	1.71	0.45
5:AA:38:VAL:CG1	5:AA:39:SER:N	2.80	0.45
5:AA:68:LYS:HB3	5:AA:68:LYS:HE3	1.74	0.45
2:DA:34:ARG:NH1	13:IA:202:CYC:HAC2	2.30	0.45
2:JA:85:CYS:HA	13:JA:1001:CYC:HAC2	1.98	0.45
3:TA:127:SER:C	13:TA:201:CYC:HBB1	2.41	0.45
2:UA:6:ILE:HG13	2:UA:31:ARG:HD2	1.97	0.45
1:A1:172:LEU:HB2	13:G1:202:CYC:OB	2.16	0.45
2:B1:5:PRO:HG2	2:B1:31:ARG:HG3	1.99	0.45
2:H1:5:PRO:HG2	2:H1:31:ARG:HG3	1.99	0.45
3:M1:78:ARG:HG3	3:M1:79:ARG:N	2.31	0.45
3:M1:107:ASP:HA	3:M1:111:LEU:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z1:107:ASP:HA	3:Z1:111:LEU:HB2	1.99	0.45
5:A2:6:LEU:HD21	5:A2:128:ALA:HA	1.97	0.45
5:A2:241:ILE:CG2	7:J8:82:LEU:HD12	2.45	0.45
2:B2:3:LYS:HD3	2:J2:23:THR:HG21	1.99	0.45
2:B2:85:CYS:HA	13:B2:1001:CYC:CAC	2.45	0.45
3:K2:87:MET:HE2	13:K2:201:CYC:CMB	2.46	0.45
4:N2:246:SER:HB3	4:N2:252:VAL:HG12	1.97	0.45
2:S2:28:ALA:O	2:S2:32:TYR:CD2	2.69	0.45
2:D3:31:ARG:HD2	2:D3:35:ALA:HB2	1.97	0.45
2:H3:61:TYR:HH	2:H3:85:CYS:HG	1.57	0.45
2:J3:31:ARG:O	2:J3:31:ARG:HD2	2.17	0.45
2:F4:40:GLU:OE1	2:F4:40:GLU:N	2.48	0.45
2:H4:5:PRO:HG2	2:H4:31:ARG:HG3	1.99	0.45
2:L4:34:ARG:HH11	2:L4:150:GLU:HB2	1.74	0.45
2:O4:157:TYR:OH	2:W4:18:ARG:NH1	2.49	0.45
3:P4:40:ASP:CB	13:P4:202:CYC:HHB	2.47	0.45
5:A5:168:GLU:HA	5:A5:168:GLU:OE1	2.17	0.45
3:M5:74:ALA:HB2	13:M5:1002:CYC:C1C	2.46	0.45
4:N5:48:TYR:CG	3:P5:85:ARG:HD3	2.51	0.45
3:Z5:121:LEU:HD23	13:Z5:201:CYC:HBD1	1.97	0.45
2:B6:68:THR:HA	2:B6:77:ALA:CA	2.45	0.45
2:D6:119:ILE:CD1	13:D6:1001:CYC:HMA3	2.46	0.45
3:P6:37:LYS:HB2	3:P6:157:LEU:HD11	1.99	0.45
3:R6:68:ILE:CD1	13:S6:1001:CYC:O2A	2.65	0.45
2:W6:34:ARG:CZ	13:W6:201:CYC:H2C	2.25	0.45
2:W6:88:ASP:OD1	13:W6:202:CYC:CHB	2.64	0.45
3:X6:38:ARG:CD	3:X6:157:LEU:CD2	2.93	0.45
3:C7:114:LEU:HD23	3:C7:172:VAL:CG2	2.43	0.45
3:C7:157:LEU:O	3:C7:161:VAL:N	2.43	0.45
2:D7:119:ILE:CD1	13:D7:1001:CYC:HMA3	2.47	0.45
3:I7:146:PRO:CB	3:I7:151:LYS:HE2	2.46	0.45
3:K7:144:ASN:ND2	3:K7:158:ILE:HD12	2.32	0.45
2:L7:129:TRP:CE3	13:L7:201:CYC:HMC3	2.51	0.45
7:A8:155:TYR:HB2	7:I9:20:PRO:CD	2.46	0.45
7:C8:106:GLU:OE2	10:09:540:PHE:CA	2.51	0.45
7:E8:71:ASN:ND2	7:E8:121:THR:OG1	2.49	0.45
9:N8:25:ASN:OD1	10:19:657:GLU:OE1	2.34	0.45
8:d8:80:ALA:O	8:d8:84:ARG:HG2	2.16	0.45
7:g8:125:ALA:HB3	13:g8:1001:CYC:CMC	2.37	0.45
7:l8:71:ASN:ND2	7:l8:121:THR:OG1	2.49	0.45
7:G9:87:TYR:HB3	13:G9:1001:CYC:HBB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:V9:23:LEU:HA	12:V9:26:ILE:HD12	1.98	0.45
2:DA:93:LEU:O	2:DA:97:THR:OG1	2.33	0.45
3:EA:154:CYS:CB	13:EA:201:CYC:CBC	2.95	0.45
13:EA:202:CYC:HAC2	2:FA:85:CYS:HA	1.98	0.45
2:HA:16:GLN:HB3	2:HA:18:ARG:HD3	1.99	0.45
2:QA:93:LEU:O	2:QA:97:THR:OG1	2.33	0.45
3:TA:114:LEU:CD1	13:TA:201:CYC:HBC1	2.42	0.45
2:B1:83:SER:HB2	8:d8:27:LYS:CD	2.43	0.45
3:C1:82:ALA:HB3	13:C1:301:CYC:C3D	2.47	0.45
2:L1:41:ALA:HA	2:L1:143:LEU:CD2	2.46	0.45
2:O1:91:HIS:HB2	13:O1:1001:CYC:HMB2	1.99	0.45
5:A2:212:ARG:CZ	8:h9:68:ARG:CZ	2.89	0.45
2:U2:29:ARG:CB	13:V2:201:CYC:OC	2.64	0.45
2:B3:3:LYS:HD3	2:J3:23:THR:HG21	1.99	0.45
2:D3:85:CYS:CA	13:D3:1001:CYC:HAC2	2.40	0.45
3:K3:109:ARG:O	13:K3:201:CYC:HBC1	2.16	0.45
2:L3:34:ARG:NH2	2:L3:150:GLU:HG2	2.31	0.45
3:G4:43:ASN:HD22	13:G4:201:CYC:CMB	2.27	0.45
3:K4:60:LEU:HD21	13:K4:201:CYC:HBB1	1.97	0.45
3:P4:88:GLU:O	3:P4:92:ARG:N	2.43	0.45
3:V4:124:PRO:HG2	13:V4:202:CYC:HBB3	1.97	0.45
3:X4:53:VAL:HG12	3:X4:84:LEU:CD1	2.46	0.45
3:X4:68:ILE:HG13	3:X4:69:ALA:N	2.32	0.45
2:B5:31:ARG:NH1	2:B5:103:GLY:CA	2.68	0.45
2:D5:85:CYS:HA	13:D5:1001:CYC:HAC2	1.98	0.45
2:F5:16:GLN:HB3	2:F5:18:ARG:HD3	1.99	0.45
2:S5:32:TYR:HE1	3:T5:31:VAL:O	2.00	0.45
2:U5:16:GLN:HB3	2:U5:18:ARG:HD3	1.99	0.45
2:W5:16:GLN:HB3	2:W5:18:ARG:HD3	1.99	0.45
3:Z5:44:ARG:HG2	3:Z5:142:ILE:HG22	1.90	0.45
2:F6:14:ASP:OD1	3:G6:92:ARG:NH2	2.49	0.45
2:F6:34:ARG:NH1	2:F6:146:GLN:HG3	2.29	0.45
3:G6:152:GLY:N	13:G6:201:CYC:CMD	2.78	0.45
13:U6:202:CYC:O1A	3:Z6:68:ILE:HD12	2.16	0.45
3:K7:82:ALA:HB1	13:K7:201:CYC:O2A	2.15	0.45
2:L7:73:PRO:O	13:L7:201:CYC:CBD	2.59	0.45
4:N7:261:VAL:HG11	4:N7:269:LYS:HG2	1.98	0.45
7:H8:71:ASN:ND2	7:H8:121:THR:OG1	2.49	0.45
7:H8:107:ILE:HA	8:M8:75:THR:HG22	1.99	0.45
9:N8:3:ARG:HH21	9:N8:67:LEU:HB2	1.81	0.45
8:W8:88:TYR:OH	10:19:998:GLU:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X8:110:ILE:HG13	10:19:972:GLN:OE1	2.16	0.45
9:b8:3:ARG:HH21	9:b8:67:LEU:HB2	1.81	0.45
7:c8:71:ASN:ND2	7:c8:121:THR:OG1	2.49	0.45
8:f8:111:ASN:ND2	10:09:964:ASN:OD1	2.50	0.45
13:o8:1001:CYC:HMA3	10:09:986:PHE:HE2	1.80	0.45
8:u8:119:SER:HB2	10:19:1114:LYS:NZ	2.25	0.45
13:19:1205:CYC:HMD1	8:h9:78:ARG:HB3	1.97	0.45
13:B9:1001:CYC:HB	13:B9:1001:CYC:HMA1	1.81	0.45
8:F9:84:ARG:HH11	13:F9:1001:CYC:CGA	2.30	0.45
11:g9:97:LEU:HD21	11:g9:153:VAL:HA	1.99	0.45
13:PA:203:CYC:HAC2	2:QA:85:CYS:HA	1.98	0.45
3:RA:142:ILE:HD13	3:RA:142:ILE:HA	1.76	0.45
2:UA:16:GLN:HB3	2:UA:18:ARG:HD3	1.99	0.45
3:VA:154:CYS:SG	13:VA:202:CYC:CAB	3.05	0.45
2:WA:85:CYS:HA	13:WA:1001:CYC:HAC2	1.99	0.45
2:F1:85:CYS:SG	13:F1:1001:CYC:CAC	3.01	0.45
2:J1:5:PRO:HG2	2:J1:31:ARG:HG3	1.99	0.45
3:K1:157:LEU:C	3:K1:157:LEU:CD2	2.89	0.45
3:P1:40:ASP:CB	13:P1:202:CYC:HHB	2.47	0.45
3:X1:20:LEU:HD23	3:X1:20:LEU:HA	1.81	0.45
3:X1:107:ASP:HA	3:X1:111:LEU:HB2	1.99	0.45
2:Y1:5:PRO:HG2	2:Y1:31:ARG:HG3	1.99	0.45
5:A2:191:GLN:HA	7:d9:75:GLN:CG	2.46	0.45
2:H2:74:GLN:HA	13:H2:1001:CYC:HBD2	1.99	0.45
13:I2:201:CYC:HBA2	4:N2:263:TYR:CE1	2.51	0.45
4:N2:94:ARG:HD3	4:N2:188:SER:HA	1.98	0.45
4:N2:163:ALA:HB2	3:T2:112:ASN:HB3	1.99	0.45
2:O2:119:ILE:HD12	13:O2:1001:CYC:HMA3	1.92	0.45
2:S2:29:ARG:CD	2:S2:33:GLU:OE1	2.65	0.45
6:A3:118:ALA:CB	6:A3:124:GLU:HG2	2.46	0.45
2:F3:34:ARG:NH1	2:F3:146:GLN:HG3	2.29	0.45
2:H3:31:ARG:HH21	2:H3:35:ALA:CA	2.27	0.45
4:N3:235:ARG:HB3	4:N3:263:TYR:HB2	1.98	0.45
1:A4:168:ARG:CB	1:A4:173:VAL:HG22	2.36	0.45
2:B4:40:GLU:OE1	2:B4:40:GLU:N	2.47	0.45
3:C4:82:ALA:HB3	13:C4:301:CYC:C3D	2.47	0.45
3:K4:85:ARG:NH2	3:K4:86:ASP:OD1	2.49	0.45
2:W4:5:PRO:HG2	2:W4:31:ARG:HG3	1.99	0.45
3:Z4:154:CYS:SG	13:Z4:201:CYC:HAB1	2.56	0.45
5:A5:205:LYS:HD3	8:z9:63:TYR:HB3	1.78	0.45
2:D5:93:LEU:O	2:D5:97:THR:OG1	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O5:26:GLN:CG	2:W5:34:ARG:HG2	2.46	0.45
3:P5:58:ARG:NE	2:Q5:73:PRO:HB2	2.31	0.45
2:Q5:16:GLN:HB3	2:Q5:18:ARG:HD3	1.99	0.45
3:Z5:108:ASP:OD1	3:Z5:112:ASN:ND2	2.48	0.45
2:B6:61:TYR:OH	2:B6:85:CYS:SG	2.71	0.45
2:D6:31:ARG:HG2	2:H6:26:GLN:OE1	2.17	0.45
2:J6:91:HIS:HB3	13:J6:1001:CYC:HAB1	1.97	0.45
3:R6:107:ASP:HA	3:R6:111:LEU:HB2	1.97	0.45
3:Z6:107:ASP:HA	3:Z6:111:LEU:HB2	1.97	0.45
2:H7:31:ARG:NH2	3:I7:6:PHE:CD1	2.77	0.45
9:G8:5:PHE:HE2	9:G8:34:TYR:HD2	1.63	0.45
7:Z8:71:ASN:ND2	7:Z8:121:THR:OG1	2.49	0.45
7:e8:50:LEU:HD21	7:e8:137:ALA:HB2	1.99	0.45
10:09:280:SER:N	10:09:283:GLU:OE1	2.45	0.45
10:09:482:PHE:HD1	10:09:486:THR:HG21	1.81	0.45
10:19:1010:VAL:HG21	10:19:1089:VAL:HG22	1.99	0.45
7:C9:87:TYR:HB3	13:C9:1001:CYC:HBB3	1.98	0.45
13:O9:1001:CYC:HMA1	13:O9:1001:CYC:HB	1.81	0.45
11:Q9:132:GLN:HA	11:Q9:135:LYS:HG2	1.98	0.45
8:S9:75:THR:HG23	7:T9:107:ILE:HG23	1.99	0.45
8:t9:113:LEU:HD12	8:t9:113:LEU:HA	1.84	0.45
2:OA:93:LEU:O	2:OA:97:THR:OG1	2.33	0.45
2:QA:32:TYR:HE1	3:RA:35:GLY:CA	2.20	0.45
3:TA:108:ASP:OD1	3:TA:112:ASN:ND2	2.48	0.45
2:YA:16:GLN:HB3	2:YA:18:ARG:HD3	1.99	0.45
13:C1:302:CYC:HBD1	13:C1:302:CYC:CHA	2.28	0.45
2:D2:31:ARG:HG2	2:H2:26:GLN:OE1	2.17	0.45
13:E2:202:CYC:CBD	13:E2:202:CYC:CHA	2.85	0.45
3:I2:43:ASN:O	3:I2:47:SER:OG	2.30	0.45
2:L2:29:ARG:HH11	13:M2:201:CYC:CMD	2.29	0.45
4:N2:195:ALA:HB3	3:R2:120:ALA:HB1	1.99	0.45
4:N2:231:GLY:O	4:N2:232:GLU:C	2.60	0.45
13:N2:302:CYC:CMC	3:T2:89:ILE:HG21	2.46	0.45
3:R2:107:ASP:HA	3:R2:111:LEU:HB2	1.97	0.45
13:T2:201:CYC:HBD1	13:T2:201:CYC:CHA	2.28	0.45
6:A3:6:LEU:HB2	3:C3:78:ARG:HH21	1.82	0.45
6:A3:129:ILE:CD1	3:C3:85:ARG:HH12	2.24	0.45
2:D3:119:ILE:CD1	13:D3:1001:CYC:HMA3	2.47	0.45
1:A4:80:ARG:HG3	1:A4:149:TYR:HE2	1.82	0.45
2:D4:5:PRO:HG2	2:D4:31:ARG:HG3	1.99	0.45
2:Q4:5:PRO:HG2	2:Q4:31:ARG:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T4:107:ASP:HA	3:T4:111:LEU:HB2	1.99	0.45
3:V4:68:ILE:CD1	13:W4:1001:CYC:CGA	2.95	0.45
2:B5:16:GLN:HB3	2:B5:18:ARG:HD3	1.99	0.45
2:H5:85:CYS:HA	13:M5:1001:CYC:HAC2	1.98	0.45
2:J5:28:ALA:O	2:J5:32:TYR:CD2	2.70	0.45
2:W5:31:ARG:O	2:W5:35:ALA:N	2.45	0.45
2:Y5:29:ARG:NH1	2:Y5:33:GLU:OE2	2.49	0.45
2:Y5:93:LEU:O	2:Y5:97:THR:OG1	2.33	0.45
5:A6:229:GLN:H	5:A6:229:GLN:CD	2.24	0.45
5:A6:243:TYR:HB3	7:C8:82:LEU:HB2	1.99	0.45
5:A6:247:VAL:HG11	7:C8:83:ARG:CD	2.46	0.45
2:B6:3:LYS:HD3	2:J6:23:THR:HG21	1.99	0.45
2:B6:85:CYS:SG	13:B6:1001:CYC:CAC	3.03	0.45
2:H6:74:GLN:HA	13:H6:1001:CYC:HBD2	1.99	0.45
4:N6:104:LEU:O	4:N6:152:ARG:CZ	2.64	0.45
4:N6:195:ALA:HB3	3:R6:120:ALA:HB1	1.99	0.45
4:N6:235:ARG:HB3	4:N6:263:TYR:HB2	1.98	0.45
4:N6:238:ARG:CZ	4:N6:258:VAL:HG11	2.46	0.45
3:K7:38:ARG:CG	3:K7:38:ARG:NH1	2.72	0.45
7:J8:16:ARG:O	8:K8:91:ARG:NH1	2.45	0.45
7:O8:23:LEU:HD22	8:P8:39:VAL:HG13	1.99	0.45
7:S8:125:ALA:HB3	13:S8:1001:CYC:CMC	2.37	0.45
7:X8:50:LEU:HD21	7:X8:137:ALA:HB2	1.99	0.45
9:i8:31:LEU:HD12	10:09:1002:LYS:HE2	1.99	0.45
7:n8:21:GLY:O	7:n8:25:ARG:HG3	2.16	0.45
7:n8:83:ARG:HD3	10:09:934:GLY:N	2.32	0.45
10:09:722:GLN:HA	10:09:725:GLN:HG2	1.98	0.45
10:19:417:TRP:CG	11:g9:116:THR:HG22	2.52	0.45
10:19:554:LEU:HD21	7:b9:15:ALA:HB2	1.99	0.45
13:H9:1001:CYC:HMA1	13:H9:1001:CYC:HB	1.81	0.45
7:i9:118:SER:O	7:i9:118:SER:OG	2.35	0.45
8:v9:84:ARG:HH11	13:v9:1001:CYC:CGA	2.30	0.45
3:KA:108:ASP:OD1	3:KA:112:ASN:ND2	2.48	0.45
2:LA:10:ILE:HD13	3:MA:96:TYR:HB3	1.99	0.45
4:NA:31:GLU:O	4:NA:35:VAL:N	2.50	0.45
3:PA:39:LEU:HD23	13:PA:202:CYC:HMC3	1.99	0.45
2:SA:16:GLN:HB3	2:SA:18:ARG:HD3	1.99	0.45
3:XA:158:ILE:O	3:XA:161:VAL:N	2.49	0.45
3:ZA:86:ASP:OD1	13:ZA:201:CYC:CMB	2.65	0.45
1:A1:191:ILE:HG23	8:h8:68:ARG:NH1	2.29	0.45
2:B1:94:ARG:CG	3:C1:19:PHE:CE1	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D1:41:ALA:HB2	2:D1:147:ALA:HB1	1.99	0.45
3:E1:107:ASP:HA	3:E1:111:LEU:HB2	1.99	0.45
13:E1:202:CYC:HMD3	13:E1:202:CYC:NC	2.32	0.45
2:F1:123:PHE:CE2	13:F1:1001:CYC:HAA2	2.50	0.45
3:G1:107:ASP:HA	3:G1:111:LEU:HB2	1.99	0.45
3:K1:107:ASP:HA	3:K1:111:LEU:HB2	1.99	0.45
3:P1:107:ASP:HA	3:P1:111:LEU:HB2	1.99	0.45
3:Z1:121:LEU:HD11	13:Z1:202:CYC:HAA2	1.98	0.45
2:B2:34:ARG:HH22	13:K2:202:CYC:CAC	2.19	0.45
2:D2:119:ILE:CD1	13:D2:1001:CYC:HMA3	2.46	0.45
3:G2:43:ASN:O	3:G2:47:SER:OG	2.30	0.45
3:I2:115:ARG:HH21	4:N2:9:ARG:HH11	1.65	0.45
2:J2:31:ARG:O	2:J2:31:ARG:HD2	2.17	0.45
4:N2:235:ARG:HB3	4:N2:263:TYR:HB2	1.98	0.45
3:R2:68:ILE:CD1	13:S2:1001:CYC:O2A	2.65	0.45
2:W2:88:ASP:CG	13:W2:202:CYC:HHB	2.42	0.45
6:A3:9:ALA:O	6:A3:120:ASN:HB2	2.17	0.45
6:A3:12:SER:HA	6:A3:16:ARG:HH11	1.80	0.45
6:A3:125:ILE:HG21	3:C3:117:THR:HG22	1.97	0.45
3:K3:144:ASN:ND2	3:K3:158:ILE:HD12	2.32	0.45
2:J4:29:ARG:HD3	13:K4:202:CYC:OC	2.16	0.45
3:R4:75:TYR:HH	2:S4:94:ARG:HH12	1.63	0.45
2:S4:40:GLU:OE1	2:S4:40:GLU:N	2.48	0.45
2:Y4:5:PRO:HG2	2:Y4:31:ARG:HG3	1.99	0.45
5:A5:223:ALA:HA	7:q9:82:LEU:HD11	1.98	0.45
5:A5:239:PHE:CE2	7:A9:52:LYS:O	2.70	0.45
13:A5:304:CYC:HBC1	3:K5:114:LEU:HD13	1.95	0.45
3:E5:142:ILE:HD13	3:E5:142:ILE:HA	1.76	0.45
2:F5:29:ARG:CD	13:G5:201:CYC:OB	2.65	0.45
3:K5:118:TYR:HD1	3:K5:123:THR:HG23	1.82	0.45
4:N5:92:GLN:HE21	4:N5:92:GLN:CA	2.28	0.45
4:N5:160:GLN:OE1	13:T5:201:CYC:OC	2.35	0.45
4:N5:237:TYR:CD2	4:N5:263:TYR:CD1	3.05	0.45
3:P5:77:ASN:OD1	13:P5:203:CYC:C4B	2.65	0.45
3:X5:150:THR:OG1	13:X5:202:CYC:HAA2	2.16	0.45
5:A6:191:GLN:O	7:N9:75:GLN:CG	2.48	0.45
3:I6:146:PRO:CB	3:I6:151:LYS:HE2	2.46	0.45
2:J6:31:ARG:O	2:J6:31:ARG:HD2	2.17	0.45
2:Y6:88:ASP:O	13:Y6:201:CYC:HMB2	2.16	0.45
6:A7:6:LEU:HB2	3:C7:78:ARG:HH21	1.82	0.45
2:L7:31:ARG:NH1	2:L7:103:GLY:N	2.61	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M7:85:ARG:HD2	3:M7:85:ARG:C	2.41	0.45
4:N7:235:ARG:HB3	4:N7:263:TYR:HB2	1.98	0.45
7:H8:50:LEU:HD21	7:H8:137:ALA:HB2	1.99	0.45
7:J8:50:LEU:HD21	7:J8:137:ALA:HB2	1.99	0.45
7:L8:50:LEU:HD21	7:L8:137:ALA:HB2	1.99	0.45
7:Q8:50:LEU:HD21	7:Q8:137:ALA:HB2	1.99	0.45
7:V8:50:LEU:HD21	7:V8:137:ALA:HB2	1.99	0.45
7:n8:50:LEU:HD21	7:n8:137:ALA:HB2	1.99	0.45
10:09:74:ARG:HD3	10:09:207:GLU:HG3	1.98	0.45
10:19:534:LYS:HE2	10:19:534:LYS:HB2	1.74	0.45
7:P9:10:ASN:HD21	12:V9:10:GLN:NE2	2.15	0.45
7:P9:87:TYR:HB3	13:P9:1001:CYC:HBB3	1.98	0.45
8:W9:113:LEU:HD12	8:W9:113:LEU:HA	1.84	0.45
8:a9:16:GLN:CD	11:g9:132:GLN:HG3	2.41	0.45
7:d9:118:SER:O	7:d9:118:SER:OG	2.35	0.45
7:k9:87:TYR:HB3	13:k9:1001:CYC:HBB3	1.98	0.45
8:z9:84:ARG:HH11	13:z9:1001:CYC:CGA	2.30	0.45
2:BA:16:GLN:HB3	2:BA:18:ARG:HD3	1.99	0.45
2:DA:85:CYS:HA	13:DA:1001:CYC:HAC2	1.98	0.45
2:FA:29:ARG:CD	13:GA:1002:CYC:OB	2.65	0.45
3:GA:108:ASP:OD1	3:GA:112:ASN:ND2	2.48	0.45
3:PA:149:ILE:CD1	3:PA:149:ILE:H	2.29	0.45
13:TA:201:CYC:O1A	13:TA:201:CYC:C2A	2.65	0.45
2:UA:93:LEU:O	2:UA:97:THR:OG1	2.33	0.45
3:VA:118:TYR:HD1	3:VA:123:THR:HG23	1.82	0.45
2:F1:6:ILE:HG23	3:G1:99:LEU:HD23	1.98	0.45
2:Y1:146:GLN:CD	2:Y1:146:GLN:N	2.73	0.45
2:Q2:74:GLN:HG3	2:Q2:75:PHE:CD2	2.52	0.45
3:X2:60:LEU:HD13	3:X2:87:MET:CE	2.47	0.45
2:D3:31:ARG:HG2	2:H3:26:GLN:OE1	2.17	0.45
3:I3:38:ARG:HG2	3:I3:157:LEU:HD21	1.99	0.45
3:K3:43:ASN:O	3:K3:47:SER:OG	2.30	0.45
3:K3:87:MET:HE2	13:K3:201:CYC:CMB	2.46	0.45
1:A4:172:LEU:HB2	13:G4:202:CYC:OB	2.16	0.45
1:A4:209:THR:HB	7:V8:67:SER:CB	2.46	0.45
13:E4:202:CYC:HMD3	13:E4:202:CYC:NC	2.32	0.45
2:F4:6:ILE:HG23	3:G4:99:LEU:HD23	1.98	0.45
3:G4:107:ASP:HA	3:G4:111:LEU:HB2	1.99	0.45
2:H4:85:CYS:HA	13:H4:1001:CYC:HAC2	1.97	0.45
3:K4:157:LEU:C	3:K4:157:LEU:CD2	2.89	0.45
5:A5:60:GLU:OE1	5:A5:97:LEU:HD13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C5:201:CYC:NC	13:C5:201:CYC:HMD3	2.32	0.45
3:E5:118:TYR:HD1	3:E5:123:THR:HG23	1.82	0.45
13:E5:202:CYC:HAC2	2:F5:85:CYS:HA	1.99	0.45
13:K5:201:CYC:NC	13:K5:201:CYC:HMD3	2.32	0.45
2:L5:94:ARG:NH2	3:M5:17:GLY:HA2	2.31	0.45
2:O5:16:GLN:HE22	2:W5:3:LYS:HE3	1.81	0.45
3:V5:68:ILE:CD1	13:W5:1001:CYC:O2A	2.64	0.45
3:X5:158:ILE:O	3:X5:161:VAL:N	2.49	0.45
5:A6:26:ASN:HD22	3:G6:1:MET:HE1	1.82	0.45
5:A6:62:LEU:HB3	5:A6:63:LYS:H	1.54	0.45
2:J6:88:ASP:OD1	13:J6:1001:CYC:HHB	2.16	0.45
2:S6:31:ARG:NH2	2:S6:102:ALA:O	2.50	0.45
2:U6:29:ARG:CB	13:V6:201:CYC:OC	2.64	0.45
3:V6:44:ARG:HH22	3:V6:149:ILE:HG12	1.70	0.45
2:J7:85:CYS:SG	13:J7:1001:CYC:CAC	3.03	0.45
2:L7:119:ILE:CD1	13:L7:201:CYC:CMA	2.91	0.45
7:c8:50:LEU:HD21	7:c8:137:ALA:HB2	1.99	0.45
8:d8:81:ALA:C	8:d8:84:ARG:HG2	2.41	0.45
9:i8:3:ARG:HH21	9:i8:67:LEU:HB2	1.81	0.45
7:n8:15:ALA:CB	10:09:989:GLN:CA	2.65	0.45
8:o8:88:TYR:CE1	13:o8:1001:CYC:HBB3	2.46	0.45
8:s8:144:ALA:HB2	8:O9:29:LYS:HZ2	1.59	0.45
10:19:498:ASN:HA	10:19:503:ASN:HD22	1.81	0.45
10:19:517:LYS:HB3	7:b9:13:ALA:HB2	1.98	0.45
10:19:1079:GLU:OE2	10:19:1093:ARG:NH1	2.49	0.45
7:A9:72:ALA:HA	7:A9:77:MET:HB3	1.99	0.45
7:f9:72:ALA:HA	7:f9:77:MET:HB3	1.99	0.45
12:m9:23:LEU:HA	12:m9:26:ILE:HD12	1.98	0.45
2:FA:16:GLN:HB3	2:FA:18:ARG:HD3	1.99	0.45
2:FA:31:ARG:NH2	3:GA:6:PHE:CD2	2.85	0.45
2:OA:16:GLN:HB3	2:OA:18:ARG:HD3	1.99	0.45
3:E1:85:ARG:NH2	3:E1:86:ASP:OD1	2.50	0.45
3:I1:107:ASP:HA	3:I1:111:LEU:HB2	1.99	0.45
2:J1:40:GLU:OE1	2:J1:40:GLU:N	2.47	0.45
3:M1:79:ARG:O	3:M1:82:ALA:HB3	2.17	0.45
4:N1:22:GLU:HA	4:N1:146:ASN:O	2.16	0.45
3:P1:78:ARG:NH2	13:P1:201:CYC:O2D	2.45	0.45
3:T1:128:VAL:HG21	13:T1:202:CYC:HMB2	1.86	0.45
13:U1:1001:CYC:NB	3:Z1:77:ASN:OD1	2.50	0.45
3:X1:68:ILE:HG13	3:X1:69:ALA:N	2.32	0.45
3:Z1:128:VAL:HG22	13:Z1:202:CYC:H3C	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A2:202:TYR:HH	7:d9:48:GLU:HA	1.76	0.45
2:B2:22:ASN:O	2:B2:26:GLN:CG	2.42	0.45
3:I2:38:ARG:HG2	3:I2:157:LEU:HD21	1.99	0.45
3:K2:107:ASP:HA	3:K2:111:LEU:HB2	1.98	0.45
2:Y2:123:PHE:CE2	13:Y2:201:CYC:HAA1	2.52	0.45
3:Z2:43:ASN:O	3:Z2:47:SER:OG	2.29	0.45
2:F3:30:GLY:HA3	2:L3:30:GLY:CA	2.47	0.45
4:N3:261:VAL:HG11	4:N3:269:LYS:HG2	1.98	0.45
2:D4:88:ASP:OD1	13:D4:1001:CYC:HHB	2.18	0.45
2:H4:119:ILE:CD1	13:H4:1001:CYC:CMA	2.89	0.45
2:J4:5:PRO:HG2	2:J4:31:ARG:HG3	1.99	0.45
2:J4:41:ALA:HB2	2:J4:147:ALA:HB1	1.99	0.45
3:V4:107:ASP:HA	3:V4:111:LEU:HB2	1.99	0.45
5:A5:20:PHE:O	5:A5:20:PHE:CD2	2.70	0.45
5:A5:214:GLY:N	5:A5:218:LYS:HE2	2.28	0.45
2:L5:16:GLN:HB3	2:L5:18:ARG:HD3	1.99	0.45
3:M5:118:TYR:HD1	3:M5:123:THR:HG23	1.82	0.45
2:O5:85:CYS:HA	13:O5:1001:CYC:HAC2	1.98	0.45
3:R5:118:TYR:HD1	3:R5:123:THR:HG23	1.82	0.45
3:T5:144:ASN:HA	13:T5:202:CYC:HMC1	1.99	0.45
3:X5:118:TYR:HD1	3:X5:123:THR:HG23	1.82	0.45
5:A6:178:ARG:NH2	3:G6:78:ARG:HH12	2.15	0.45
5:A6:202:TYR:OH	7:N9:48:GLU:HG3	2.17	0.45
2:F6:46:THR:HG23	3:G6:19:PHE:HB3	1.99	0.45
3:K6:144:ASN:ND2	3:K6:158:ILE:HD12	2.32	0.45
3:M6:145:ASP:HA	3:M6:146:PRO:HD3	1.44	0.45
3:T6:107:ASP:HA	3:T6:111:LEU:HB2	1.97	0.45
6:A7:134:GLN:HB3	6:A7:138:GLY:HA3	1.99	0.45
3:I7:38:ARG:HG2	3:I7:157:LEU:HD21	1.99	0.45
3:K7:87:MET:HE2	13:K7:201:CYC:CMB	2.46	0.45
3:K7:109:ARG:O	13:K7:201:CYC:HBC1	2.16	0.45
7:C8:50:LEU:HD21	7:C8:137:ALA:HB2	1.99	0.45
9:U8:3:ARG:HH21	9:U8:67:LEU:HB2	1.81	0.45
7:g8:50:LEU:HD21	7:g8:137:ALA:HB2	1.99	0.45
8:q8:108:ARG:O	10:19:1032:PRO:HG3	2.16	0.45
10:09:1042:ARG:HB2	10:09:1048:ALA:HB2	1.98	0.45
13:19:1205:CYC:CGA	8:h9:84:ARG:HH11	2.30	0.45
7:E9:72:ALA:HA	7:E9:77:MET:HB3	1.99	0.45
7:T9:72:ALA:HA	7:T9:77:MET:HB3	1.99	0.45
7:Z9:72:ALA:HA	7:Z9:77:MET:HB3	1.99	0.45
7:b9:87:TYR:HB3	13:b9:1001:CYC:HBB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:149:ILE:HD12	3:CA:149:ILE:H	1.82	0.45
2:DA:16:GLN:HB3	2:DA:18:ARG:HD3	1.99	0.45
13:EA:201:CYC:NC	13:EA:201:CYC:HMD3	2.32	0.45
2:HA:85:CYS:HA	13:MA:1001:CYC:HAC2	1.98	0.45
4:NA:182:GLN:HG2	4:NA:215:ARG:HH22	1.82	0.45
13:NA:301:CYC:C2A	13:NA:301:CYC:O1A	2.65	0.45
2:OA:85:CYS:HA	13:OA:1001:CYC:HAC2	1.98	0.45
13:RA:201:CYC:NC	13:RA:201:CYC:HMD3	2.32	0.45
2:SA:32:TYR:HE1	3:TA:31:VAL:O	1.99	0.45
2:SA:85:CYS:HA	13:SA:1001:CYC:HAC2	1.98	0.45
2:H1:123:PHE:CD2	13:H1:1001:CYC:HAA2	2.52	0.44
3:R1:73:ASN:HD22	13:R1:1001:CYC:C1C	2.29	0.44
5:A2:149:GLU:HB3	5:A2:153:LYS:HE3	1.97	0.44
3:I2:146:PRO:CB	3:I2:151:LYS:HE2	2.46	0.44
3:K2:57:ALA:O	3:K2:61:PHE:HD2	1.99	0.44
3:R2:68:ILE:HD12	13:S2:1001:CYC:O1A	2.17	0.44
13:U2:202:CYC:O1A	3:Z2:68:ILE:HD12	2.16	0.44
6:A3:87:GLY:C	6:A3:140:ILE:CD1	2.89	0.44
6:A3:134:GLN:HB3	6:A3:138:GLY:HA3	1.99	0.44
13:C3:201:CYC:HMD3	13:C3:201:CYC:NC	2.32	0.44
3:C4:107:ASP:HA	3:C4:111:LEU:HB2	1.99	0.44
2:D4:143:LEU:HG	2:D4:148:ALA:HB2	1.98	0.44
13:I4:202:CYC:NC	13:I4:202:CYC:HMD3	2.33	0.44
2:O4:22:ASN:ND2	2:W4:150:GLU:OE2	2.45	0.44
3:T4:82:ALA:O	3:T4:86:ASP:HB2	2.17	0.44
13:X4:202:CYC:NC	13:X4:202:CYC:HMD3	2.32	0.44
5:A5:16:ARG:HD3	13:A5:302:CYC:OB	2.17	0.44
5:A5:205:LYS:HZ2	8:z9:63:TYR:O	1.40	0.44
2:D5:16:GLN:HB3	2:D5:18:ARG:HD3	1.99	0.44
2:D5:28:ALA:O	2:D5:32:TYR:HD2	2.01	0.44
3:E5:39:LEU:HD22	13:E5:201:CYC:CBB	2.19	0.44
2:H5:34:ARG:NE	2:H5:150:GLU:CD	2.74	0.44
13:I5:202:CYC:NC	13:I5:202:CYC:HMD3	2.33	0.44
3:M5:40:ASP:OD2	3:M5:40:ASP:N	2.39	0.44
4:N5:106:ARG:HH22	4:N5:160:GLN:HA	1.82	0.44
3:T5:127:SER:HB3	13:T5:201:CYC:HBB2	1.94	0.44
3:C6:114:LEU:CD2	3:C6:172:VAL:HG22	2.42	0.44
2:L6:34:ARG:NH2	2:L6:150:GLU:HA	2.32	0.44
2:L6:129:TRP:CE3	13:L6:201:CYC:HMC3	2.52	0.44
13:N6:302:CYC:O2A	3:T6:121:LEU:HD13	2.17	0.44
2:O6:119:ILE:HD12	13:O6:1001:CYC:CMA	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P6:107:ASP:HA	3:P6:111:LEU:HB2	1.97	0.44
2:Q6:74:GLN:HG3	2:Q6:75:PHE:CD2	2.52	0.44
2:W6:61:TYR:OH	2:W6:85:CYS:SG	2.71	0.44
2:Y6:85:CYS:HA	13:Y6:201:CYC:HAC2	2.00	0.44
6:A7:104:ARG:NH1	6:A7:104:ARG:CG	2.72	0.44
6:A7:125:ILE:HG21	3:C7:117:THR:HG22	1.97	0.44
2:B7:85:CYS:HA	13:B7:1001:CYC:CAC	2.45	0.44
3:K7:107:ASP:HA	3:K7:111:LEU:HB2	1.97	0.44
7:E8:90:ARG:NH1	8:F8:17:GLY:HA2	2.32	0.44
7:Z8:50:LEU:HD21	7:Z8:137:ALA:HB2	1.99	0.44
10:09:489:ILE:HD12	8:L9:112:GLY:H	1.83	0.44
10:09:579:ILE:HG23	10:09:583:ASP:HB3	1.98	0.44
10:19:445:ARG:HE	8:a9:114:LYS:NZ	2.14	0.44
13:29:1001:CYC:CGA	8:W9:84:ARG:HH11	2.30	0.44
7:I9:72:ALA:HA	7:I9:77:MET:HB3	1.99	0.44
8:J9:84:ARG:HH11	13:J9:1001:CYC:CGA	2.30	0.44
8:L9:84:ARG:NH1	13:L9:1001:CYC:CGA	2.73	0.44
7:N9:87:TYR:HB3	13:N9:1001:CYC:HBB3	1.98	0.44
7:R9:72:ALA:HA	7:R9:77:MET:HB3	2.00	0.44
7:Z9:87:TYR:HB3	13:Z9:1001:CYC:HBB3	1.98	0.44
8:a9:16:GLN:NE2	11:g9:132:GLN:HG3	2.33	0.44
5:AA:16:ARG:HD3	13:AA:302:CYC:OB	2.17	0.44
13:AA:303:CYC:CBB	3:GA:93:TYR:CE2	2.87	0.44
3:EA:39:LEU:HD22	13:EA:201:CYC:CBB	2.19	0.44
13:EA:201:CYC:HBD1	13:EA:201:CYC:CHA	2.28	0.44
3:KA:2:THR:HG22	3:KA:105:VAL:HG22	1.99	0.44
13:KA:201:CYC:NC	13:KA:201:CYC:HMD3	2.32	0.44
3:PA:87:MET:HE3	13:PA:201:CYC:HBC1	1.99	0.44
3:PA:118:TYR:HD1	3:PA:123:THR:HG23	1.82	0.44
13:PA:202:CYC:NC	13:PA:202:CYC:HMD3	2.32	0.44
3:TA:2:THR:HG22	3:TA:105:VAL:HG22	1.99	0.44
3:TA:127:SER:HB3	13:TA:201:CYC:HBB1	1.95	0.44
3:VA:2:THR:HG22	3:VA:105:VAL:HG22	1.99	0.44
3:VA:156:GLN:CD	3:VA:156:GLN:C	2.86	0.44
2:WA:16:GLN:HB3	2:WA:18:ARG:HD3	1.99	0.44
3:XA:150:THR:OG1	13:XA:202:CYC:HAA2	2.16	0.44
3:ZA:44:ARG:HH12	3:ZA:145:ASP:CG	2.19	0.44
1:A1:207:ILE:HG12	7:c8:66:VAL:HB	2.00	0.44
3:M1:20:LEU:HD23	3:M1:20:LEU:HA	1.81	0.44
13:M1:202:CYC:CBD	13:M1:202:CYC:CHA	2.85	0.44
2:O1:5:PRO:HG2	2:O1:31:ARG:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O1:22:ASN:HD21	2:W1:150:GLU:CD	2.24	0.44
2:S1:5:PRO:HG2	2:S1:31:ARG:HG3	1.99	0.44
3:T1:82:ALA:O	3:T1:86:ASP:HB2	2.17	0.44
5:A2:241:ILE:HG21	7:J8:82:LEU:CD1	2.48	0.44
13:C2:202:CYC:HMD3	13:C2:202:CYC:NC	2.33	0.44
2:J2:61:TYR:OH	2:J2:85:CYS:SG	2.71	0.44
3:P2:80:MET:HE2	2:Q2:123:PHE:CZ	2.52	0.44
2:S2:31:ARG:NH2	2:S2:102:ALA:O	2.50	0.44
6:A3:97:ALA:CA	6:A3:105:LEU:HD11	2.39	0.44
13:E3:202:CYC:NC	13:E3:202:CYC:HMD3	2.32	0.44
2:F3:46:THR:HG23	3:G3:19:PHE:HB3	2.00	0.44
1:A4:164:ARG:NH2	1:A4:169:PRO:HD3	2.32	0.44
3:C4:82:ALA:O	3:C4:86:ASP:HB2	2.16	0.44
2:D4:41:ALA:HB2	2:D4:147:ALA:HB1	1.99	0.44
3:I4:107:ASP:HA	3:I4:111:LEU:HB2	1.99	0.44
3:P4:154:CYS:SG	13:P4:202:CYC:CAB	3.06	0.44
3:R4:73:ASN:HD22	13:R4:1001:CYC:C1C	2.29	0.44
3:R4:107:ASP:HA	3:R4:111:LEU:HB2	1.99	0.44
3:T4:83:CYS:O	3:T4:87:MET:HG2	2.16	0.44
13:U4:1001:CYC:NB	3:Z4:77:ASN:OD1	2.50	0.44
3:Z4:152:GLY:N	13:Z4:201:CYC:C4B	2.76	0.44
13:Z4:201:CYC:NC	13:Z4:201:CYC:HMD3	2.32	0.44
4:N5:62:LEU:HD21	4:N5:72:PHE:HB2	1.90	0.44
4:N5:119:ASP:O	4:N5:123:ASN:ND2	2.50	0.44
4:N5:182:GLN:HG2	4:N5:215:ARG:HH22	1.82	0.44
2:O5:16:GLN:HB3	2:O5:18:ARG:HD3	1.99	0.44
3:R5:39:LEU:HD21	13:R5:201:CYC:CBB	2.35	0.44
13:R5:201:CYC:CAB	2:U5:34:ARG:NE	2.74	0.44
3:X5:157:LEU:C	3:X5:157:LEU:CD1	2.86	0.44
3:Z5:89:ILE:CG1	13:Z5:201:CYC:HBB3	2.42	0.44
13:Z5:202:CYC:NC	13:Z5:202:CYC:HMD3	2.33	0.44
5:A6:13:GLN:OE1	5:A6:15:HIS:NE2	2.50	0.44
5:A6:107:LEU:HA	5:A6:110:ILE:HG22	1.99	0.44
3:C6:70:PRO:HB2	3:E6:17:GLY:HA3	1.99	0.44
4:N6:163:ALA:HB2	3:T6:112:ASN:HB3	1.99	0.44
2:W6:25:LEU:HB3	13:X6:202:CYC:CMC	2.47	0.44
2:W6:88:ASP:CG	13:W6:202:CYC:HHB	2.42	0.44
13:X6:201:CYC:O1A	13:X6:201:CYC:C2A	2.66	0.44
6:A7:63:ASN:ND2	6:A7:91:VAL:CG2	2.79	0.44
8:B8:47:ALA:HA	7:I9:154:ASP:CG	2.42	0.44
8:B8:76:THR:HG22	7:C8:115:MET:SD	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:B8:84:ARG:HE	10:09:572:ILE:HD13	1.81	0.44
7:L8:20:PRO:HG2	7:Z9:100:ASP:OD2	2.18	0.44
9:U8:7:ILE:HG13	9:U8:37:TRP:CZ3	2.53	0.44
9:b8:7:ILE:HG13	9:b8:37:TRP:CZ3	2.53	0.44
8:k8:109:VAL:CG1	13:k8:1001:CYC:CAB	2.73	0.44
8:m8:109:VAL:CG1	13:09:1201:CYC:CAB	2.73	0.44
8:s8:82:CYS:SG	13:s8:1001:CYC:HAC1	2.51	0.44
10:19:986:PHE:CD2	13:19:1201:CYC:NB	2.85	0.44
11:Q9:108:ARG:HA	11:Q9:108:ARG:HD3	1.76	0.44
8:S9:84:ARG:HH11	13:S9:1001:CYC:CGA	2.30	0.44
7:Z9:16:ARG:O	8:a9:91:ARG:HD2	2.16	0.44
7:k9:94:TYR:HD1	8:l9:20:LEU:HD11	1.82	0.44
5:AA:20:PHE:O	5:AA:20:PHE:CD2	2.70	0.44
2:BA:85:CYS:HA	13:GA:1001:CYC:HAC2	1.98	0.44
3:MA:156:GLN:CD	3:MA:156:GLN:C	2.86	0.44
3:PA:77:ASN:OD1	13:PA:203:CYC:C4B	2.65	0.44
3:PA:77:ASN:HD22	2:QA:119:ILE:HD12	1.82	0.44
3:RA:108:ASP:OD1	3:RA:112:ASN:ND2	2.48	0.44
3:ZA:118:TYR:HD1	3:ZA:123:THR:HG23	1.82	0.44
1:A1:32:ARG:HH21	1:A1:157:ILE:HD11	1.83	0.44
1:A1:199:LEU:HD23	7:c8:79:ALA:HB2	1.99	0.44
2:B1:94:ARG:HA	3:C1:19:PHE:HE1	1.79	0.44
13:C1:302:CYC:NC	13:C1:302:CYC:HMD3	2.33	0.44
3:E1:137:ASP:OD2	3:E1:137:ASP:N	2.51	0.44
3:G1:73:ASN:HD22	13:G1:202:CYC:C1C	2.30	0.44
3:G1:78:ARG:HB3	3:G1:78:ARG:HH11	1.79	0.44
3:G1:88:GLU:O	3:G1:92:ARG:N	2.43	0.44
13:G1:201:CYC:HBC2	13:G1:201:CYC:HMC1	2.00	0.44
4:N1:48:TYR:HB3	3:P1:85:ARG:NH1	2.15	0.44
2:O1:157:TYR:OH	2:W1:18:ARG:NH1	2.49	0.44
13:P1:202:CYC:NC	13:P1:202:CYC:HMD3	2.33	0.44
3:T1:20:LEU:HD23	3:T1:20:LEU:HA	1.81	0.44
3:T1:76:THR:CG2	3:T1:79:ARG:CD	2.85	0.44
3:V1:74:ALA:HB2	13:V1:202:CYC:OB	2.16	0.44
2:W1:5:PRO:HG2	2:W1:31:ARG:HG3	1.99	0.44
3:X1:53:VAL:HG12	3:X1:84:LEU:CD1	2.46	0.44
13:X1:202:CYC:NC	13:X1:202:CYC:HMD3	2.33	0.44
5:A2:107:LEU:HA	5:A2:110:ILE:HG22	1.98	0.44
5:A2:202:TYR:CE2	7:d9:48:GLU:HB3	2.53	0.44
2:F2:46:THR:HG23	3:G2:19:PHE:HB3	1.99	0.44
13:G2:201:CYC:HBC2	13:G2:201:CYC:HMC1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H2:94:ARG:HH21	3:I2:14:ASP:HA	1.82	0.44
2:Y2:61:TYR:HH	2:Y2:85:CYS:HG	1.58	0.44
6:A3:71:GLN:HB3	6:A3:77:ILE:CG1	2.47	0.44
2:F3:14:ASP:OD1	3:G3:93:TYR:OH	2.31	0.44
2:L3:34:ARG:NH2	2:L3:150:GLU:HA	2.32	0.44
3:M3:109:ARG:O	13:N3:301:CYC:HAB1	2.18	0.44
1:A4:32:ARG:HH21	1:A4:157:ILE:HD11	1.82	0.44
2:B4:85:CYS:SG	13:B4:1001:CYC:CAC	3.06	0.44
2:F4:5:PRO:HG2	2:F4:31:ARG:HG3	1.99	0.44
13:G4:201:CYC:HBC2	13:G4:201:CYC:HMC1	2.00	0.44
3:K4:79:ARG:HG2	13:K4:201:CYC:CGA	2.41	0.44
3:M4:107:ASP:HA	3:M4:111:LEU:HB2	1.99	0.44
2:O4:119:ILE:CD1	13:O4:1001:CYC:HMA3	2.45	0.44
3:R4:137:ASP:OD2	3:R4:137:ASP:N	2.51	0.44
3:V4:79:ARG:CB	13:V4:202:CYC:HMA1	2.47	0.44
3:Z4:107:ASP:HA	3:Z4:111:LEU:HB2	1.99	0.44
3:Z4:121:LEU:HD11	13:Z4:202:CYC:HAA2	1.98	0.44
5:A5:17:VAL:CG1	3:E5:85:ARG:NE	2.80	0.44
3:E5:143:ALA:O	13:E5:201:CYC:HMC1	2.18	0.44
2:F5:31:ARG:NH2	3:G5:6:PHE:CD2	2.85	0.44
3:I5:154:CYS:SG	13:I5:202:CYC:CMB	3.05	0.44
4:N5:178:SER:OG	13:P5:201:CYC:HBA2	2.17	0.44
3:T5:118:TYR:HD1	3:T5:123:THR:HG23	1.82	0.44
3:V5:154:CYS:SG	13:V5:202:CYC:CAB	3.05	0.44
5:A6:106:ARG:HH22	5:A6:177:PRO:HD2	1.82	0.44
3:P6:80:MET:HE2	2:Q6:123:PHE:CZ	2.52	0.44
3:V6:68:ILE:HD13	13:W6:202:CYC:O1A	2.17	0.44
3:V6:144:ASN:ND2	3:V6:158:ILE:CD1	2.80	0.44
6:A7:9:ALA:O	6:A7:120:ASN:HB2	2.17	0.44
13:A7:301:CYC:HBC1	3:C7:87:MET:HE2	1.79	0.44
2:J7:31:ARG:O	2:J7:31:ARG:HD2	2.17	0.44
9:b8:22:GLU:O	9:b8:26:THR:N	2.42	0.44
8:o8:88:TYR:CE2	13:o8:1001:CYC:HBB3	2.50	0.44
8:q8:82:CYS:SG	13:q8:1001:CYC:HAC1	2.51	0.44
7:r8:50:LEU:HD21	7:r8:137:ALA:HB2	1.99	0.44
10:19:727:LYS:HB3	7:s9:13:ALA:HB2	1.99	0.44
11:Q9:82:CYS:HA	13:Q9:201:CYC:HAC1	1.81	0.44
7:k9:94:TYR:HB3	8:l9:10:ILE:HD13	1.99	0.44
8:p9:84:ARG:HH11	13:p9:1001:CYC:CGA	2.30	0.44
8:t9:63:TYR:CG	5:AA:201:PHE:CE1	2.97	0.44
7:u9:72:ALA:HA	7:u9:77:MET:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:2:THR:HG22	3:CA:105:VAL:HG22	2.00	0.44
2:DA:28:ALA:O	2:DA:32:TYR:HD2	2.01	0.44
3:EA:78:ARG:HB2	2:FA:114:ALA:CB	2.46	0.44
3:EA:156:GLN:CD	3:EA:156:GLN:C	2.86	0.44
2:LA:16:GLN:HB3	2:LA:18:ARG:HD3	1.99	0.44
3:MA:108:ASP:OD1	3:MA:112:ASN:ND2	2.48	0.44
3:MA:110:CYS:HA	13:MA:1002:CYC:HBB1	1.98	0.44
3:RA:2:THR:HG22	3:RA:105:VAL:HG22	2.00	0.44
3:TA:156:GLN:CD	3:TA:156:GLN:C	2.85	0.44
3:ZA:2:THR:HG22	3:ZA:105:VAL:HG22	1.99	0.44
13:ZA:201:CYC:O1A	13:ZA:201:CYC:C2A	2.66	0.44
13:ZA:202:CYC:NC	13:ZA:202:CYC:HMD3	2.32	0.44
2:D1:88:ASP:OD1	13:D1:1001:CYC:CHB	2.64	0.44
13:G1:201:CYC:NC	13:G1:201:CYC:HMD3	2.33	0.44
2:L1:5:PRO:HG2	2:L1:31:ARG:HG3	1.99	0.44
4:N1:46:ASN:ND2	4:N1:175:TYR:O	2.46	0.44
4:N1:238:ARG:HG3	4:N1:260:ILE:HG12	1.98	0.44
3:P1:86:ASP:O	3:P1:89:ILE:N	2.50	0.44
3:P1:154:CYS:SG	13:P1:202:CYC:CAB	3.05	0.44
13:X1:201:CYC:C2A	13:X1:201:CYC:O1A	2.65	0.44
2:B2:43:ARG:HG2	3:C2:25:LEU:HD13	2.00	0.44
13:I2:202:CYC:HBC2	13:I2:202:CYC:HMC1	2.00	0.44
2:L2:34:ARG:NH2	2:L2:150:GLU:HA	2.32	0.44
4:N2:106:ARG:NE	4:N2:138:GLU:OE2	2.39	0.44
4:N2:223:LYS:HA	4:N2:238:ARG:HH11	1.81	0.44
2:S2:29:ARG:CG	2:S2:29:ARG:NH2	2.78	0.44
3:V2:144:ASN:ND2	3:V2:158:ILE:CD1	2.81	0.44
13:W2:203:CYC:HMB2	3:X2:41:VAL:HG23	2.00	0.44
3:G3:34:GLU:CG	3:G3:157:LEU:HD22	2.43	0.44
3:G3:87:MET:HE1	13:G3:201:CYC:CBC	2.44	0.44
13:K3:202:CYC:NC	13:K3:202:CYC:HMD3	2.32	0.44
2:O4:119:ILE:HD11	13:O4:1001:CYC:CMA	2.46	0.44
13:V4:201:CYC:HBD1	13:V4:201:CYC:CHA	2.29	0.44
13:A5:301:CYC:CMB	3:C5:114:LEU:HD11	2.48	0.44
13:G5:201:CYC:HBC2	13:G5:201:CYC:HMC1	2.00	0.44
3:M5:2:THR:HG22	3:M5:105:VAL:HG22	2.00	0.44
2:Q5:34:ARG:NH1	2:Q5:34:ARG:CG	2.72	0.44
3:R5:2:THR:HG22	3:R5:105:VAL:HG22	2.00	0.44
3:V5:123:THR:CB	13:V5:201:CYC:O1A	2.66	0.44
2:Y5:16:GLN:HB3	2:Y5:18:ARG:HD3	1.99	0.44
2:Y5:94:ARG:NH2	3:Z5:14:ASP:OD1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z5:86:ASP:OD1	13:Z5:201:CYC:CMB	2.65	0.44
2:D6:31:ARG:HD2	2:D6:35:ALA:HB2	1.97	0.44
13:H6:1001:CYC:CGD	3:M6:58:ARG:NH1	2.75	0.44
3:I6:38:ARG:HG2	3:I6:157:LEU:HD21	2.00	0.44
2:J6:85:CYS:SG	13:J6:1001:CYC:CAC	3.03	0.44
2:O6:119:ILE:HD12	13:O6:1001:CYC:HMA3	1.92	0.44
3:G7:34:GLU:CG	3:G7:157:LEU:HD22	2.43	0.44
2:H7:94:ARG:HH21	3:I7:14:ASP:HA	1.82	0.44
2:L7:72:GLY:HA2	2:L7:73:PRO:HD3	1.80	0.44
7:E8:125:ALA:HB3	13:E8:1001:CYC:CMC	2.37	0.44
7:e8:151:SER:OG	7:n8:20:PRO:HB3	2.17	0.44
10:19:907:PRO:HA	10:19:910:ALA:HB3	2.00	0.44
7:E9:87:TYR:HB3	13:E9:1001:CYC:HBB3	1.98	0.44
12:V9:64:ASP:N	12:V9:64:ASP:OD1	2.50	0.44
13:c9:1001:CYC:HMA1	13:c9:1001:CYC:HB	1.81	0.44
8:t9:63:TYR:CE1	5:AA:201:PHE:CZ	3.02	0.44
5:AA:13:GLN:OE1	5:AA:15:HIS:CD2	2.70	0.44
5:AA:17:VAL:CG1	3:EA:85:ARG:NE	2.80	0.44
2:FA:93:LEU:O	2:FA:97:THR:OG1	2.33	0.44
3:KA:118:TYR:HD1	3:KA:123:THR:HG23	1.83	0.44
3:MA:118:TYR:HD1	3:MA:123:THR:HG23	1.82	0.44
13:MA:1003:CYC:NC	13:MA:1003:CYC:HMD3	2.33	0.44
4:NA:160:GLN:OE1	13:TA:201:CYC:OC	2.35	0.44
4:NA:178:SER:OG	13:PA:201:CYC:HBA2	2.17	0.44
2:OA:88:ASP:OD2	2:OA:130:TYR:OH	2.34	0.44
3:ZA:83:CYS:HG	13:ZA:201:CYC:HAC2	1.77	0.44
2:B1:18:ARG:NH1	2:J1:157:TYR:HH	2.15	0.44
2:D1:5:PRO:HG2	2:D1:31:ARG:HG3	1.99	0.44
4:N1:90:SER:OG	4:N1:91:PHE:N	2.50	0.44
13:T1:201:CYC:NC	13:T1:201:CYC:HMD3	2.33	0.44
13:Z1:201:CYC:NC	13:Z1:201:CYC:HMD3	2.32	0.44
5:A2:26:ASN:HD22	3:G2:1:MET:HE1	1.82	0.44
5:A2:106:ARG:HH22	5:A2:177:PRO:HD2	1.82	0.44
3:G2:149:ILE:HG21	13:G2:201:CYC:CHD	2.48	0.44
13:K2:202:CYC:NC	13:K2:202:CYC:HMD3	2.32	0.44
4:N2:97:GLU:HB2	4:N2:171:LEU:HD11	1.98	0.44
4:N2:104:LEU:O	4:N2:152:ARG:CZ	2.64	0.44
13:V2:201:CYC:HBC2	13:V2:201:CYC:HMC1	2.00	0.44
13:W2:201:CYC:NC	13:W2:201:CYC:HMD3	2.33	0.44
3:X2:36:ASN:OD1	3:X2:36:ASN:N	2.51	0.44
3:X2:87:MET:SD	13:X2:201:CYC:CBC	3.04	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Z2:201:CYC:CBD	13:Z2:201:CYC:CHA	2.86	0.44
6:A3:60:ILE:HG21	2:B3:115:GLY:HA3	1.99	0.44
2:B3:61:TYR:HH	2:B3:85:CYS:HG	1.57	0.44
2:B3:85:CYS:HA	13:B3:1001:CYC:CAC	2.45	0.44
2:D3:74:GLN:NE2	2:D3:75:PHE:CE2	2.80	0.44
2:H3:74:GLN:HA	13:H3:1001:CYC:HBD2	1.99	0.44
3:C4:23:GLU:OE2	7:V8:48:GLU:OE1	2.36	0.44
3:E4:36:ASN:ND2	13:E4:202:CYC:HAA2	2.33	0.44
3:G4:37:LYS:O	3:G4:41:VAL:HG12	2.17	0.44
4:N4:61:LEU:HB3	4:N4:67:LEU:CG	2.47	0.44
3:P4:137:ASP:OD2	3:P4:137:ASP:N	2.50	0.44
3:R4:77:ASN:OD1	13:S4:1001:CYC:C4B	2.66	0.44
13:T4:201:CYC:NC	13:T4:201:CYC:HMD3	2.33	0.44
3:C5:115:ARG:HG2	3:C5:119:GLN:HE22	1.83	0.44
3:E5:156:GLN:C	3:E5:156:GLN:CD	2.85	0.44
3:K5:40:ASP:OD1	13:K5:201:CYC:HHB	2.17	0.44
3:P5:142:ILE:HD13	3:P5:142:ILE:HA	1.76	0.44
2:Q5:32:TYR:HE1	3:R5:35:GLY:CA	2.20	0.44
3:X5:2:THR:HG22	3:X5:105:VAL:HG22	1.99	0.44
5:A6:182:ASP:OD1	5:A6:182:ASP:N	2.51	0.44
13:I6:202:CYC:NC	13:I6:202:CYC:HMD3	2.33	0.44
3:K6:83:CYS:HA	13:K6:201:CYC:HMB3	1.98	0.44
2:L6:34:ARG:NH2	2:L6:150:GLU:HG2	2.31	0.44
2:W6:91:HIS:CG	13:W6:202:CYC:HBB3	2.53	0.44
3:X6:43:ASN:O	3:X6:47:SER:OG	2.30	0.44
2:F7:30:GLY:HA3	2:L7:30:GLY:CA	2.47	0.44
2:F7:34:ARG:NH1	2:F7:146:GLN:HE21	2.16	0.44
7:A8:20:PRO:CG	7:I9:151:SER:OG	2.55	0.44
7:C8:110:ILE:HD13	10:09:542:GLU:OE2	2.17	0.44
8:F8:47:ALA:O	7:K9:158:GLY:HA2	2.18	0.44
7:L8:20:PRO:HG2	7:Z9:101:VAL:HG22	1.99	0.44
7:X8:125:ALA:HB3	13:X8:1001:CYC:CMC	2.37	0.44
7:Z8:125:ALA:HB3	13:Z8:1001:CYC:CMC	2.37	0.44
7:t8:106:GLU:OE1	10:19:951:THR:HG21	2.15	0.44
9:29:65:ALA:H	8:S9:11:ASN:CG	2.25	0.44
7:I9:87:TYR:HB3	13:I9:1001:CYC:HBB3	1.98	0.44
7:T9:87:TYR:HB3	13:T9:1001:CYC:HBB3	1.98	0.44
7:b9:72:ALA:HA	7:b9:77:MET:HB3	2.00	0.44
7:i9:115:MET:HG3	8:n9:79:TYR:CD1	2.53	0.44
5:AA:131:ILE:CG1	13:AA:301:CYC:O2A	2.65	0.44
3:IA:154:CYS:SG	13:IA:202:CYC:CMB	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KA:40:ASP:OD1	13:KA:201:CYC:HHB	2.17	0.44
13:RA:201:CYC:HMC1	13:RA:201:CYC:HBC2	2.00	0.44
2:SA:93:LEU:O	2:SA:97:THR:OG1	2.33	0.44
3:TA:154:CYS:SG	13:TA:202:CYC:C4C	3.05	0.44
13:TA:202:CYC:NC	13:TA:202:CYC:HMD3	2.33	0.44
3:C1:107:ASP:HA	3:C1:111:LEU:HB2	1.99	0.44
2:D1:88:ASP:OD1	13:D1:1001:CYC:HHB	2.18	0.44
3:G1:123:THR:HG22	3:G1:124:PRO:HD2	2.00	0.44
3:M1:36:ASN:HD21	13:M1:202:CYC:C3D	2.31	0.44
4:N1:142:ASN:HD22	4:N1:152:ARG:HD2	1.83	0.44
13:Q1:202:CYC:NC	13:Q1:202:CYC:HMD3	2.32	0.44
3:R1:75:TYR:HH	2:S1:94:ARG:NH1	2.16	0.44
4:N2:47:ASP:CG	4:N2:85:LYS:HZ2	2.23	0.44
3:P2:60:LEU:HD13	3:P2:87:MET:HE1	2.00	0.44
13:U2:201:CYC:HBC2	13:U2:201:CYC:HMC1	2.00	0.44
13:U2:201:CYC:NC	13:U2:201:CYC:HMD3	2.33	0.44
3:V2:58:ARG:NH1	2:W2:73:PRO:CB	2.81	0.44
13:W2:203:CYC:NC	13:W2:203:CYC:HMD3	2.33	0.44
2:Y2:85:CYS:HA	13:Y2:201:CYC:HAC2	2.00	0.44
6:A3:8:TYR:CD2	6:A3:123:GLU:CG	3.00	0.44
13:M3:201:CYC:NC	13:M3:201:CYC:HMD3	2.33	0.44
2:B4:5:PRO:HG2	2:B4:31:ARG:HG3	1.99	0.44
2:B4:18:ARG:NH1	2:J4:157:TYR:HH	2.15	0.44
13:C4:302:CYC:HBC2	13:C4:302:CYC:HMC1	2.00	0.44
3:E4:152:GLY:H	13:E4:202:CYC:C1C	2.30	0.44
2:J4:37:ALA:O	2:J4:147:ALA:HB1	2.18	0.44
3:K4:110:CYS:SG	13:K4:201:CYC:CBC	3.04	0.44
13:P4:202:CYC:NC	13:P4:202:CYC:HMD3	2.33	0.44
3:X4:107:ASP:HA	3:X4:111:LEU:HB2	1.99	0.44
2:L5:93:LEU:O	2:L5:97:THR:OG1	2.33	0.44
3:M5:154:CYS:SG	13:M5:1003:CYC:HMB3	2.48	0.44
3:P5:2:THR:HG22	3:P5:105:VAL:HG22	1.99	0.44
2:Q5:93:LEU:O	2:Q5:97:THR:OG1	2.33	0.44
2:S5:85:CYS:HA	13:S5:1001:CYC:HAC2	1.99	0.44
13:V5:202:CYC:HBD1	13:V5:202:CYC:CHA	2.29	0.44
13:V5:202:CYC:NC	13:V5:202:CYC:HMD3	2.33	0.44
2:Y5:85:CYS:HA	13:Y5:201:CYC:HAC2	1.98	0.44
2:B6:119:ILE:HD11	13:B6:1001:CYC:C3A	2.35	0.44
2:D6:88:ASP:OD2	13:D6:1001:CYC:NA	2.51	0.44
2:H6:94:ARG:HH21	3:I6:14:ASP:HA	1.82	0.44
2:L6:150:GLU:CD	2:L6:150:GLU:C	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N6:118:LEU:HD12	4:N6:118:LEU:HA	1.84	0.44
4:N6:206:SER:OG	4:N6:207:GLY:N	2.51	0.44
13:T6:201:CYC:HMC1	13:T6:201:CYC:HBC2	2.00	0.44
13:W6:201:CYC:NC	13:W6:201:CYC:HMD3	2.33	0.44
6:A7:60:ILE:HG21	2:B7:115:GLY:HA3	2.00	0.44
3:C7:70:PRO:HB2	3:E7:17:GLY:HA3	1.99	0.44
13:E7:202:CYC:NC	13:E7:202:CYC:HMD3	2.32	0.44
13:G7:202:CYC:HBC2	13:G7:202:CYC:HMC1	2.00	0.44
13:G7:202:CYC:NC	13:G7:202:CYC:HMD3	2.33	0.44
13:I7:201:CYC:O1A	13:I7:201:CYC:C2A	2.66	0.44
8:I8:109:VAL:CG1	13:I8:1001:CYC:CAB	2.73	0.44
7:J8:64:ASP:OD2	7:X9:70:GLY:N	2.51	0.44
7:V8:125:ALA:HB3	13:V8:1001:CYC:CMC	2.38	0.44
10:09:502:SER:OG	8:L9:84:ARG:HD2	2.17	0.44
8:D9:84:ARG:HH11	13:D9:1001:CYC:CGA	2.30	0.44
7:K9:87:TYR:HB3	13:K9:1001:CYC:HBB3	1.98	0.44
7:N9:23:LEU:HD12	8:O9:39:VAL:HG13	1.99	0.44
7:R9:87:TYR:HB3	13:R9:1001:CYC:HBB3	1.98	0.44
7:q9:72:ALA:HA	7:q9:77:MET:HB3	1.99	0.44
8:r9:84:ARG:HH11	13:r9:1001:CYC:CGA	2.30	0.44
7:y9:72:ALA:HA	7:y9:77:MET:HB3	2.00	0.44
13:AA:304:CYC:O1A	13:AA:304:CYC:C2A	2.65	0.44
3:CA:118:TYR:HD1	3:CA:123:THR:HG23	1.82	0.44
2:LA:85:CYS:HA	13:LA:201:CYC:HAC2	1.98	0.44
4:NA:106:ARG:HH22	4:NA:160:GLN:HA	1.82	0.44
3:TA:149:ILE:HD12	3:TA:149:ILE:H	1.81	0.44
13:VA:201:CYC:O1A	13:VA:201:CYC:C2A	2.65	0.44
2:WA:31:ARG:NH1	2:WA:103:GLY:HA3	2.08	0.44
13:ZA:202:CYC:CBD	13:ZA:202:CYC:CHA	2.86	0.44
3:E1:128:VAL:HG22	13:E1:201:CYC:H3C	2.00	0.44
2:F1:5:PRO:HG2	2:F1:31:ARG:HG3	1.99	0.44
2:H1:40:GLU:OE1	2:H1:40:GLU:N	2.47	0.44
13:I1:201:CYC:C2A	13:I1:201:CYC:O1A	2.66	0.44
13:K1:202:CYC:HMC1	13:K1:202:CYC:HBC2	2.00	0.44
3:T1:154:CYS:SG	3:T1:158:ILE:HD11	2.57	0.44
13:E2:202:CYC:NC	13:E2:202:CYC:HMD3	2.32	0.44
2:L2:72:GLY:HA2	2:L2:73:PRO:HD3	1.80	0.44
2:O2:119:ILE:HD11	13:O2:1001:CYC:C3A	2.40	0.44
13:T2:201:CYC:HMC1	13:T2:201:CYC:HBC2	2.00	0.44
13:X2:201:CYC:O1A	13:X2:201:CYC:C2A	2.66	0.44
3:I3:87:MET:CE	13:I3:201:CYC:HBC2	1.93	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J3:85:CYS:SG	13:J3:1001:CYC:CAC	3.03	0.44
3:C4:118:TYR:CE2	3:C4:128:VAL:HG21	2.50	0.44
13:G4:201:CYC:NC	13:G4:201:CYC:HMD3	2.33	0.44
3:K4:79:ARG:HA	13:K4:201:CYC:CGA	2.38	0.44
13:K4:202:CYC:CBD	13:K4:202:CYC:CHA	2.86	0.44
4:N4:101:LYS:HG3	4:N4:171:LEU:HD13	2.00	0.44
3:P4:93:TYR:CD2	13:P4:201:CYC:HBB1	2.41	0.44
2:S4:5:PRO:HG2	2:S4:31:ARG:HG3	1.99	0.44
3:T4:137:ASP:OD2	3:T4:137:ASP:N	2.51	0.44
3:E5:2:THR:HG22	3:E5:105:VAL:HG22	2.00	0.44
13:G5:201:CYC:NC	13:G5:201:CYC:HMD3	2.33	0.44
13:I5:202:CYC:CBD	13:I5:202:CYC:CHA	2.85	0.44
3:M5:149:ILE:CD1	3:M5:149:ILE:H	2.30	0.44
13:M5:1003:CYC:NC	13:M5:1003:CYC:HMD3	2.33	0.44
13:N5:301:CYC:O1A	13:N5:301:CYC:C2A	2.65	0.44
2:S5:32:TYR:HD1	3:T5:32:VAL:HA	1.83	0.44
13:T5:201:CYC:O1A	13:T5:201:CYC:C2A	2.65	0.44
13:T5:202:CYC:HMC1	13:T5:202:CYC:HBC2	2.00	0.44
2:B6:123:PHE:HE2	13:B6:1001:CYC:HAA1	1.74	0.44
2:F6:34:ARG:NH1	2:F6:146:GLN:HE21	2.16	0.44
2:J6:61:TYR:OH	2:J6:85:CYS:SG	2.71	0.44
3:K6:57:ALA:O	3:K6:61:PHE:HD2	1.99	0.44
13:K6:201:CYC:NC	13:K6:201:CYC:HMD3	2.33	0.44
13:M6:201:CYC:NC	13:M6:201:CYC:HMD3	2.33	0.44
3:R6:41:VAL:CG2	13:U6:201:CYC:CBC	2.96	0.44
2:S6:29:ARG:CD	2:S6:33:GLU:OE1	2.65	0.44
3:X6:60:LEU:HD13	3:X6:87:MET:CE	2.47	0.44
6:A7:65:GLN:CD	6:A7:67:PHE:CZ	2.94	0.44
6:A7:101:SER:CB	3:C7:112:ASN:ND2	2.58	0.44
2:B7:3:LYS:HD3	2:J7:23:THR:HG21	1.99	0.44
2:D7:29:ARG:HD3	2:D7:29:ARG:C	2.43	0.44
2:D7:31:ARG:HG2	2:H7:26:GLN:OE1	2.17	0.44
2:F7:74:GLN:CD	2:F7:74:GLN:N	2.73	0.44
2:H7:74:GLN:HA	13:H7:1001:CYC:HBD2	1.99	0.44
13:M7:201:CYC:CBD	13:M7:201:CYC:CHA	2.86	0.44
13:M7:201:CYC:HBC2	13:M7:201:CYC:HMC1	2.00	0.44
7:A8:142:SER:O	7:A8:146:ALA:N	2.50	0.44
7:C8:142:SER:O	7:C8:146:ALA:N	2.50	0.44
8:s8:88:TYR:CG	13:s8:1001:CYC:HBB3	2.53	0.44
7:t8:50:LEU:HD21	7:t8:137:ALA:HB2	1.99	0.44
13:09:1203:CYC:CGA	8:M9:84:ARG:HH11	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:19:464:PHE:CZ	8:c9:88:TYR:HE2	2.36	0.44
10:19:720:THR:OG1	10:19:722:GLN:NE2	2.51	0.44
10:19:812:LYS:HD3	10:19:878:LEU:HB3	2.00	0.44
9:29:54:VAL:HB	8:W9:115:GLU:HB3	2.00	0.44
7:N9:72:ALA:HA	7:N9:77:MET:HB3	1.99	0.44
7:Z9:12:ASP:HA	8:a9:91:ARG:HH22	1.83	0.44
12:m9:39:ILE:O	12:m9:42:THR:OG1	2.34	0.44
5:AA:60:GLU:OE1	5:AA:97:LEU:HD13	2.17	0.44
5:AA:168:GLU:HA	5:AA:168:GLU:OE1	2.17	0.44
13:AA:301:CYC:CMB	3:CA:114:LEU:HD11	2.48	0.44
3:GA:156:GLN:CD	3:GA:156:GLN:C	2.86	0.44
2:JA:28:ALA:O	2:JA:32:TYR:CD2	2.70	0.44
13:KA:201:CYC:HMC1	13:KA:201:CYC:HBC2	2.00	0.44
3:MA:115:ARG:HG2	3:MA:119:GLN:HE22	1.83	0.44
4:NA:119:ASP:O	4:NA:123:ASN:ND2	2.50	0.44
13:VA:202:CYC:HMC1	13:VA:202:CYC:HBC2	2.00	0.44
3:XA:115:ARG:HG2	3:XA:119:GLN:HE22	1.83	0.44
3:ZA:115:ARG:HG2	3:ZA:119:GLN:HE22	1.83	0.44
13:K1:201:CYC:NC	13:K1:201:CYC:HMD3	2.33	0.44
13:K1:202:CYC:NC	13:K1:202:CYC:HMD3	2.32	0.44
13:M1:202:CYC:HBC2	13:M1:202:CYC:HMC1	2.00	0.44
4:N1:61:LEU:HB3	4:N1:67:LEU:CG	2.47	0.44
2:Q1:119:ILE:HD13	13:Q1:201:CYC:CMA	2.48	0.44
3:R1:107:ASP:HA	3:R1:111:LEU:HB2	1.99	0.44
13:T1:201:CYC:HBC2	13:T1:201:CYC:HMC1	2.00	0.44
2:H2:61:TYR:OH	2:H2:85:CYS:SG	2.71	0.44
3:I2:41:VAL:HG23	13:I2:202:CYC:HMB2	1.87	0.44
3:M2:109:ARG:O	13:N2:301:CYC:HAB1	2.18	0.44
3:R2:39:LEU:HB3	13:U2:201:CYC:HBB3	1.98	0.44
3:R2:85:ARG:C	3:R2:85:ARG:CD	2.86	0.44
13:W2:203:CYC:HBC2	13:W2:203:CYC:HMC1	2.00	0.44
13:Z2:201:CYC:NC	13:Z2:201:CYC:HMD3	2.33	0.44
6:A3:52:GLN:HE21	6:A3:52:GLN:CA	2.26	0.44
2:D3:88:ASP:OD2	13:D3:1001:CYC:NA	2.51	0.44
3:I3:44:ARG:HH22	3:I3:147:ASN:H	1.66	0.44
13:M3:201:CYC:HMC1	13:M3:201:CYC:HBC2	2.00	0.44
1:A4:84:ARG:HG2	1:A4:144:LEU:HD12	2.00	0.44
2:B4:80:ARG:HA	8:W8:27:LYS:HE2	1.99	0.44
13:E4:202:CYC:CBD	13:E4:202:CYC:CHA	2.85	0.44
3:K4:82:ALA:HB2	13:K4:201:CYC:O2A	2.09	0.44
3:K4:118:TYR:O	3:K4:122:GLY:N	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:K4:201:CYC:NC	13:K4:201:CYC:HMD3	2.33	0.44
2:L4:35:ALA:HA	2:L4:38:SER:HG	1.76	0.44
2:L4:41:ALA:HA	2:L4:143:LEU:CD2	2.46	0.44
3:M4:36:ASN:HD21	13:M4:202:CYC:C3D	2.31	0.44
13:M4:202:CYC:HMC1	13:M4:202:CYC:HBC2	2.00	0.44
13:Q4:202:CYC:HBC2	13:Q4:202:CYC:HMC1	2.00	0.44
3:V4:79:ARG:C	13:V4:202:CYC:HMA1	2.43	0.44
5:A5:17:VAL:HG23	13:A5:302:CYC:HMA1	1.95	0.44
13:A5:303:CYC:O1A	13:A5:303:CYC:C2A	2.65	0.44
2:B5:109:ASP:OD2	2:J5:18:ARG:NH1	2.51	0.44
2:D5:6:ILE:HD11	2:D5:31:ARG:HD3	1.99	0.44
3:G5:2:THR:HG22	3:G5:105:VAL:HG22	2.00	0.44
3:G5:156:GLN:CD	3:G5:156:GLN:C	2.86	0.44
2:J5:93:LEU:O	2:J5:97:THR:OG1	2.33	0.44
2:L5:10:ILE:HD13	3:M5:96:TYR:HB3	1.99	0.44
4:N5:161:LYS:HD2	3:T5:109:ARG:HG2	2.00	0.44
3:P5:39:LEU:HD23	13:P5:202:CYC:HMC3	1.99	0.44
13:P5:202:CYC:NC	13:P5:202:CYC:HMD3	2.32	0.44
13:P5:203:CYC:HAC2	2:Q5:85:CYS:HA	1.99	0.44
3:V5:156:GLN:CD	3:V5:156:GLN:C	2.86	0.44
3:X5:133:GLN:H	3:X5:133:GLN:HG3	1.64	0.44
2:B6:73:PRO:CB	3:G6:58:ARG:HH21	1.90	0.44
13:C6:202:CYC:HBC2	13:C6:202:CYC:HMC1	2.00	0.44
2:F6:30:GLY:HA3	2:L6:30:GLY:CA	2.47	0.44
3:G6:87:MET:HE1	13:G6:202:CYC:CBC	2.44	0.44
3:K6:121:LEU:HG	13:K6:201:CYC:HAA2	2.00	0.44
3:R6:68:ILE:HD12	13:S6:1001:CYC:O1A	2.17	0.44
3:R6:154:CYS:CB	13:U6:201:CYC:HBC2	2.48	0.44
6:A7:8:TYR:CD2	6:A7:123:GLU:CG	3.00	0.44
6:A7:13:GLN:O	13:E7:201:CYC:HMA3	2.17	0.44
6:A7:125:ILE:HG22	13:A7:301:CYC:HAA1	2.00	0.44
13:C7:201:CYC:HMD3	13:C7:201:CYC:NC	2.32	0.44
3:E7:85:ARG:NH2	13:E7:201:CYC:CGA	2.80	0.44
3:G7:149:ILE:HG21	13:G7:202:CYC:CHD	2.48	0.44
3:K7:83:CYS:HA	13:K7:201:CYC:HMB3	1.98	0.44
13:K7:201:CYC:HBC2	13:K7:201:CYC:HMC1	2.00	0.44
3:M7:38:ARG:NH1	3:M7:101:GLY:HA3	2.30	0.44
4:N7:285:SER:OG	4:N7:286:ALA:N	2.51	0.44
8:R8:109:VAL:HG11	13:R8:1001:CYC:HAB1	1.98	0.44
9:i8:23:LEU:HB3	9:i8:24:GLN:HE22	1.83	0.44
8:o8:88:TYR:CZ	8:o8:92:TYR:CE2	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:p8:50:LEU:HD21	7:p8:137:ALA:HB2	1.99	0.44
10:19:857:ASP:OD2	10:19:857:ASP:N	2.46	0.44
8:c9:84:ARG:HH11	13:c9:1001:CYC:CGA	2.30	0.44
8:j9:84:ARG:HH11	13:j9:1001:CYC:CGA	2.30	0.44
7:y9:87:TYR:HB3	13:y9:1001:CYC:HBB3	1.98	0.44
13:AA:303:CYC:C1C	3:GA:74:ALA:HB2	2.42	0.44
13:GA:1002:CYC:NC	13:GA:1002:CYC:HMD3	2.33	0.44
3:IA:118:TYR:HD1	3:IA:123:THR:HG23	1.82	0.44
3:RA:39:LEU:HD21	13:RA:201:CYC:CBB	2.35	0.44
3:XA:118:TYR:HD1	3:XA:123:THR:HG23	1.82	0.44
13:XA:201:CYC:C2A	13:XA:201:CYC:O1A	2.65	0.44
1:A1:199:LEU:HD21	7:c8:76:GLU:N	2.33	0.44
2:D1:6:ILE:HB	3:E1:4:ASP:OD2	2.18	0.44
3:G1:20:LEU:HD23	3:G1:20:LEU:HA	1.81	0.44
5:A2:178:ARG:NH2	3:G2:78:ARG:HH12	2.15	0.44
2:D2:29:ARG:HD3	2:D2:29:ARG:C	2.42	0.44
2:F2:30:GLY:HA3	2:L2:30:GLY:CA	2.47	0.44
3:I2:124:PRO:HB3	3:T2:66:GLN:NE2	2.33	0.44
2:J2:85:CYS:SG	13:J2:1001:CYC:CAC	3.03	0.44
13:K2:201:CYC:NC	13:K2:201:CYC:HMD3	2.33	0.44
3:R2:154:CYS:CB	13:U2:201:CYC:HBC2	2.48	0.44
2:U2:29:ARG:HH12	3:V2:36:ASN:HD21	1.66	0.44
3:X2:53:VAL:HG13	3:X2:87:MET:CG	2.48	0.44
13:G3:202:CYC:NC	13:G3:202:CYC:HMD3	2.33	0.44
13:I3:202:CYC:NC	13:I3:202:CYC:HMD3	2.33	0.44
1:A4:9:LYS:HB3	3:E4:108:ASP:HB3	2.00	0.44
2:B4:86:ALA:HB2	8:W8:26:GLU:CD	2.34	0.44
3:E4:137:ASP:OD2	3:E4:137:ASP:N	2.51	0.44
3:G4:123:THR:HG22	3:G4:124:PRO:HD2	2.00	0.44
13:K4:202:CYC:NC	13:K4:202:CYC:HMD3	2.32	0.44
4:N4:142:ASN:HD22	4:N4:152:ARG:HD2	1.83	0.44
2:O4:91:HIS:HB2	13:O4:1001:CYC:HMB2	1.99	0.44
13:V4:201:CYC:CBD	13:V4:201:CYC:CHA	2.86	0.44
2:W4:40:GLU:OE1	2:W4:40:GLU:N	2.47	0.44
2:Y4:146:GLN:CD	2:Y4:146:GLN:N	2.73	0.44
13:A5:304:CYC:HAC2	3:K5:114:LEU:CD1	2.31	0.44
3:E5:115:ARG:HG2	3:E5:119:GLN:HE22	1.83	0.44
2:H5:16:GLN:HB3	2:H5:18:ARG:HD3	1.99	0.44
3:I5:154:CYS:SG	13:I5:202:CYC:HAB2	2.51	0.44
3:K5:115:ARG:HG2	3:K5:119:GLN:HE22	1.83	0.44
13:R5:201:CYC:HMC1	13:R5:201:CYC:HBC2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U5:85:CYS:HA	13:U5:1001:CYC:HAC2	1.98	0.44
3:C6:68:ILE:HD13	13:D6:1001:CYC:O1A	2.18	0.44
13:G6:201:CYC:HBC2	13:G6:201:CYC:HMC1	2.00	0.44
3:I6:58:ARG:NH1	13:J6:1001:CYC:O1D	2.51	0.44
3:I6:85:ARG:NH2	4:N6:267:SER:CB	2.80	0.44
3:I6:115:ARG:HH21	4:N6:9:ARG:HH11	1.65	0.44
13:I6:201:CYC:O1A	13:I6:201:CYC:C2A	2.66	0.44
3:K6:109:ARG:O	13:K6:201:CYC:HBC1	2.16	0.44
2:L6:29:ARG:HH11	13:M6:201:CYC:CMD	2.29	0.44
3:R6:39:LEU:HB3	13:U6:201:CYC:HBB3	1.98	0.44
13:T6:201:CYC:C3B	2:Y6:34:ARG:NH2	2.81	0.44
2:U6:29:ARG:HH12	3:V6:36:ASN:HD21	1.66	0.44
13:U6:201:CYC:HBC2	13:U6:201:CYC:HMC1	2.00	0.44
6:A7:52:GLN:HG3	6:A7:112:ARG:HA	1.99	0.44
3:C7:43:ASN:O	3:C7:47:SER:OG	2.30	0.44
3:I7:144:ASN:C	13:I7:202:CYC:HBB1	2.38	0.44
4:N7:231:GLY:O	4:N7:232:GLU:C	2.60	0.44
7:J8:106:GLU:OE2	10:19:540:PHE:HA	2.17	0.44
8:Y8:88:TYR:CG	13:Y8:1001:CYC:HBB3	2.53	0.44
8:Y8:109:VAL:HG11	13:Y8:1001:CYC:HAB1	1.98	0.44
8:a8:88:TYR:CG	13:b8:1001:CYC:HBB3	2.53	0.44
13:d8:1001:CYC:NB	10:09:1001:SER:HB3	2.29	0.44
7:l8:50:LEU:HD21	7:l8:137:ALA:HB2	1.99	0.44
7:t8:125:ALA:HB3	13:t8:1001:CYC:CMC	2.38	0.44
10:09:514:LEU:HD11	7:G9:106:GLU:HG2	1.99	0.44
10:19:218:LYS:HD3	10:19:218:LYS:HA	1.88	0.44
7:P9:72:ALA:HA	7:P9:77:MET:HB3	1.99	0.44
7:X9:72:ALA:HA	7:X9:77:MET:HB3	2.00	0.44
7:o9:118:SER:O	7:o9:118:SER:OG	2.35	0.44
5:AA:165:LYS:HE3	5:AA:165:LYS:HB3	1.76	0.44
13:AA:302:CYC:HMA1	13:AA:302:CYC:HB	1.82	0.44
13:AA:304:CYC:CBC	3:KA:114:LEU:CD1	2.96	0.44
2:BA:109:ASP:OD2	2:JA:18:ARG:NH1	2.51	0.44
4:NA:242:THR:OG1	4:NA:243:GLY:N	2.51	0.44
13:PA:202:CYC:HMC1	13:PA:202:CYC:HBC2	2.00	0.44
2:WA:31:ARG:O	2:WA:35:ALA:N	2.45	0.44
13:XA:202:CYC:NC	13:XA:202:CYC:HMD3	2.32	0.44
1:A1:84:ARG:HG2	1:A1:144:LEU:HD12	1.99	0.43
1:A1:164:ARG:NH2	1:A1:169:PRO:HD3	2.32	0.43
1:A1:193:GLY:C	7:c8:83:ARG:CD	2.90	0.43
3:E1:152:GLY:H	13:E1:202:CYC:C1C	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G1:37:LYS:O	3:G1:41:VAL:HG12	2.17	0.43
3:K1:77:ASN:ND2	3:K1:77:ASN:C	2.73	0.43
2:L1:51:ARG:NH1	3:C3:148:GLY:N	2.65	0.43
2:Q1:5:PRO:HG2	2:Q1:31:ARG:HG3	1.99	0.43
2:U1:5:PRO:HG2	2:U1:31:ARG:HG3	1.99	0.43
3:V1:79:ARG:CB	13:V1:202:CYC:HMA1	2.47	0.43
3:V1:107:ASP:HA	3:V1:111:LEU:HB2	1.99	0.43
2:F2:34:ARG:CZ	2:F2:146:GLN:HE21	2.31	0.43
3:I2:144:ASN:ND2	3:I2:158:ILE:HD13	2.33	0.43
13:I2:201:CYC:O1A	13:I2:201:CYC:C2A	2.66	0.43
3:K2:121:LEU:HG	13:K2:201:CYC:HAA2	2.00	0.43
4:N2:206:SER:OG	4:N2:207:GLY:N	2.51	0.43
2:W2:91:HIS:CG	13:W2:202:CYC:HBB3	2.53	0.43
3:X2:38:ARG:HH22	3:X2:101:GLY:N	2.16	0.43
3:C3:68:ILE:HD13	13:D3:1001:CYC:O1A	2.18	0.43
3:E3:85:ARG:NH2	13:E3:201:CYC:CGA	2.80	0.43
2:F3:34:ARG:NH1	2:F3:146:GLN:HE21	2.16	0.43
2:H3:31:ARG:NH2	2:H3:35:ALA:CA	2.81	0.43
3:I3:43:ASN:O	3:I3:47:SER:OG	2.30	0.43
1:A4:84:ARG:HG2	1:A4:144:LEU:CD1	2.48	0.43
1:A4:193:GLY:C	7:V8:83:ARG:CD	2.87	0.43
2:B4:123:PHE:CD2	13:B4:1001:CYC:CAA	2.95	0.43
3:C4:137:ASP:OD2	3:C4:137:ASP:N	2.51	0.43
13:C4:302:CYC:CBD	13:C4:302:CYC:CHA	2.85	0.43
2:D4:40:GLU:OE1	2:D4:40:GLU:N	2.48	0.43
3:E4:107:ASP:HA	3:E4:111:LEU:HB2	1.99	0.43
2:L4:5:PRO:HG2	2:L4:31:ARG:HG3	1.99	0.43
3:G5:85:ARG:HD3	3:G5:85:ARG:HA	1.89	0.43
3:G5:115:ARG:HG2	3:G5:119:GLN:HE22	1.83	0.43
3:G5:118:TYR:HD1	3:G5:123:THR:HG23	1.82	0.43
13:I5:201:CYC:O1A	13:I5:201:CYC:C2A	2.66	0.43
4:N5:242:THR:OG1	4:N5:243:GLY:N	2.51	0.43
3:P5:87:MET:HE3	13:P5:201:CYC:HBC1	1.99	0.43
2:S5:16:GLN:HB3	2:S5:18:ARG:HD3	1.99	0.43
3:T5:114:LEU:CD1	13:T5:201:CYC:HBC1	2.42	0.43
13:V5:202:CYC:HMC1	13:V5:202:CYC:HBC2	2.00	0.43
3:X5:54:THR:O	3:X5:58:ARG:HG3	2.17	0.43
3:Z5:83:CYS:HG	13:Z5:201:CYC:HAC2	1.80	0.43
3:E6:85:ARG:NH2	13:E6:201:CYC:CGA	2.80	0.43
2:Q6:31:ARG:C	2:Q6:31:ARG:CD	2.91	0.43
2:U6:88:ASP:HA	13:U6:202:CYC:HMB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W6:29:ARG:CZ	13:X6:202:CYC:CMD	2.94	0.43
3:X6:36:ASN:OD1	3:X6:36:ASN:N	2.51	0.43
6:A7:71:GLN:HA	6:A7:71:GLN:OE1	2.17	0.43
6:A7:106:VAL:HG23	6:A7:131:ILE:CD1	2.26	0.43
2:F7:34:ARG:CZ	2:F7:146:GLN:HE21	2.31	0.43
2:L7:34:ARG:NH2	2:L7:150:GLU:HA	2.32	0.43
3:M7:109:ARG:O	13:N7:301:CYC:HAB1	2.18	0.43
7:E8:61:LYS:NZ	7:f9:60:GLN:OE1	2.45	0.43
9:G8:7:ILE:HG13	9:G8:37:TRP:CZ3	2.53	0.43
8:P8:88:TYR:CG	13:P8:1001:CYC:HBB3	2.53	0.43
7:Z8:47:ARG:HD3	8:a8:19:TYR:CZ	2.52	0.43
8:a8:115:GLU:HB3	9:b8:54:VAL:HB	1.99	0.43
13:d8:1001:CYC:HBA2	10:09:1004:ARG:HB3	1.97	0.43
8:m8:82:CYS:SG	13:09:1201:CYC:HAC1	2.51	0.43
7:p8:140:LEU:HD23	7:p8:140:LEU:HA	1.84	0.43
7:t8:119:LEU:HD23	7:t8:119:LEU:HA	1.90	0.43
10:09:487:ARG:NH1	8:L9:108:ARG:HH11	2.15	0.43
10:09:730:LYS:HG2	10:09:858:THR:HG22	2.00	0.43
10:19:6:SER:OG	11:g9:115:GLU:OE1	2.32	0.43
10:19:42:GLU:HB2	7:k9:25:ARG:HB3	1.99	0.43
12:V9:27:SER:HA	12:V9:30:LEU:HD12	2.00	0.43
7:i9:87:TYR:HB3	13:i9:1001:CYC:HBB3	1.98	0.43
7:o9:5:THR:HG23	8:p9:4:ASP:OD2	2.18	0.43
5:AA:106:ARG:NH2	5:AA:176:THR:CG2	2.73	0.43
2:DA:6:ILE:HD11	2:DA:31:ARG:HD3	1.99	0.43
3:GA:2:THR:HG22	3:GA:105:VAL:HG22	1.99	0.43
3:GA:118:TYR:HD1	3:GA:123:THR:HG23	1.82	0.43
3:PA:115:ARG:HG2	3:PA:119:GLN:HE22	1.83	0.43
13:TA:202:CYC:HMC1	13:TA:202:CYC:HBC2	2.00	0.43
13:XA:202:CYC:HMC1	13:XA:202:CYC:HBC2	2.00	0.43
2:YA:94:ARG:NH2	3:ZA:14:ASP:OD1	2.51	0.43
1:A1:98:LYS:NZ	3:C1:2:THR:OG1	2.41	0.43
2:B1:123:PHE:CD2	13:B1:1001:CYC:CAA	2.95	0.43
13:E1:202:CYC:CBD	13:E1:202:CYC:CHA	2.85	0.43
13:I1:202:CYC:NC	13:I1:202:CYC:HMD3	2.33	0.43
3:M1:36:ASN:HD21	13:M1:202:CYC:HAD1	1.83	0.43
2:W1:40:GLU:OE1	2:W1:40:GLU:N	2.47	0.43
2:B2:50:GLN:CG	7:k9:57:GLN:HE22	2.20	0.43
2:F2:34:ARG:NH1	2:F2:146:GLN:HE21	2.16	0.43
2:L2:31:ARG:NH1	2:L2:103:GLY:N	2.60	0.43
2:L2:150:GLU:CD	2:L2:150:GLU:C	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q2:72:GLY:HA2	2:Q2:73:PRO:HD3	1.79	0.43
3:T2:44:ARG:HH12	3:T2:145:ASP:HB2	1.81	0.43
3:V2:68:ILE:HD13	13:W2:202:CYC:O1A	2.17	0.43
2:W2:61:TYR:OH	2:W2:85:CYS:SG	2.71	0.43
6:A3:13:GLN:O	13:E3:201:CYC:HMA3	2.17	0.43
6:A3:104:ARG:NE	6:A3:108:ILE:HG12	2.33	0.43
13:I3:202:CYC:HBC2	13:I3:202:CYC:HMC1	2.00	0.43
4:N3:236:VAL:HA	4:N3:262:PRO:HA	2.00	0.43
2:D4:6:ILE:HB	3:E4:4:ASP:OD2	2.18	0.43
3:I4:152:GLY:N	13:I4:202:CYC:OB	2.47	0.43
13:I4:202:CYC:HMC1	13:I4:202:CYC:HBC2	2.00	0.43
13:K4:201:CYC:HBC2	13:K4:201:CYC:HMC1	2.00	0.43
4:N4:90:SER:OG	4:N4:91:PHE:N	2.50	0.43
2:O4:5:PRO:HG2	2:O4:31:ARG:HG3	1.99	0.43
3:R4:85:ARG:HD2	3:R4:85:ARG:C	2.44	0.43
2:W4:150:GLU:O	2:W4:153:THR:HG23	2.18	0.43
2:Y4:43:ARG:O	2:Y4:47:SER:OG	2.33	0.43
13:E5:201:CYC:NC	13:E5:201:CYC:HMD3	2.32	0.43
2:J5:85:CYS:HA	13:J5:1001:CYC:HAC2	1.98	0.43
3:M5:115:ARG:HG2	3:M5:119:GLN:HE22	1.83	0.43
13:X5:202:CYC:NC	13:X5:202:CYC:HMD3	2.32	0.43
13:X5:202:CYC:HMC1	13:X5:202:CYC:HBC2	2.00	0.43
4:N6:231:GLY:O	4:N6:232:GLU:C	2.60	0.43
2:O6:119:ILE:HD11	13:O6:1001:CYC:C3A	2.40	0.43
2:S6:35:ALA:O	2:S6:36:ALA:C	2.61	0.43
13:U6:201:CYC:NC	13:U6:201:CYC:HMD3	2.33	0.43
13:X6:202:CYC:HBC2	13:X6:202:CYC:HMC1	2.00	0.43
2:Y6:123:PHE:CE2	13:Y6:201:CYC:HAA1	2.52	0.43
13:Z6:201:CYC:NC	13:Z6:201:CYC:HMD3	2.32	0.43
3:C7:68:ILE:HD13	13:D7:1001:CYC:O1A	2.18	0.43
13:G7:202:CYC:HBD1	13:G7:202:CYC:CHA	2.28	0.43
3:K7:60:LEU:CD2	13:K7:201:CYC:CBB	2.93	0.43
2:L7:150:GLU:CD	2:L7:150:GLU:C	2.86	0.43
4:N7:242:THR:OG1	4:N7:243:GLY:N	2.51	0.43
7:A8:50:LEU:HD21	7:A8:137:ALA:HB2	1.99	0.43
13:A8:1001:CYC:HAA1	8:F8:62:LEU:HD22	2.00	0.43
8:B8:47:ALA:HA	7:I9:154:ASP:OD2	2.18	0.43
8:M8:88:TYR:CG	13:M8:1001:CYC:HBB3	2.53	0.43
9:N8:7:ILE:HG13	9:N8:37:TRP:CZ3	2.53	0.43
9:N8:31:LEU:O	10:19:579:ILE:HD13	2.18	0.43
8:d8:57:VAL:HG12	8:d8:86:LEU:CD1	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:d8:81:ALA:CA	8:d8:84:ARG:HG2	2.46	0.43
8:f8:108:ARG:HH21	9:i8:21:ARG:CZ	2.31	0.43
8:f8:109:VAL:HG11	13:f8:1001:CYC:HAB1	1.98	0.43
7:t8:79:ALA:CB	10:19:929:LEU:HG	2.48	0.43
10:09:247:ARG:HH22	10:09:412:GLN:HA	1.83	0.43
10:19:162:LEU:HG	10:19:208:ILE:HD11	1.99	0.43
7:K9:72:ALA:HA	7:K9:77:MET:HB3	1.99	0.43
7:N9:10:ASN:HD21	7:R9:10:ASN:ND2	2.15	0.43
8:h9:113:LEU:HD12	8:h9:113:LEU:HA	1.84	0.43
7:w9:72:ALA:HA	7:w9:77:MET:HB3	2.00	0.43
3:GA:115:ARG:HG2	3:GA:119:GLN:HE22	1.83	0.43
13:GA:1002:CYC:HBC2	13:GA:1002:CYC:HMC1	2.00	0.43
3:IA:2:THR:HG22	3:IA:105:VAL:HG22	2.00	0.43
3:IA:58:ARG:NH2	13:JA:1001:CYC:O2D	2.41	0.43
13:IA:202:CYC:NC	13:IA:202:CYC:HMD3	2.33	0.43
3:RA:115:ARG:HG2	3:RA:119:GLN:HE22	1.83	0.43
3:TA:115:ARG:HG2	3:TA:119:GLN:HE22	1.83	0.43
3:TA:144:ASN:HA	13:TA:202:CYC:HMC1	1.99	0.43
3:VA:121:LEU:HD23	13:VA:201:CYC:CBA	2.48	0.43
3:XA:2:THR:HG22	3:XA:105:VAL:HG22	1.99	0.43
13:C1:302:CYC:HBC2	13:C1:302:CYC:HMC1	2.00	0.43
4:N1:97:GLU:HG2	4:N1:108:PRO:HG2	2.00	0.43
4:N1:101:LYS:HG3	4:N1:171:LEU:HD13	2.00	0.43
3:P1:20:LEU:HD23	3:P1:20:LEU:HA	1.81	0.43
13:Z1:201:CYC:HBC2	13:Z1:201:CYC:HMC1	2.00	0.43
5:A2:240:ASP:OD1	5:A2:240:ASP:N	2.51	0.43
13:G2:201:CYC:NC	13:G2:201:CYC:HMD3	2.33	0.43
3:K2:83:CYS:HA	13:K2:201:CYC:HMB3	1.99	0.43
4:N2:236:VAL:HA	4:N2:262:PRO:HA	2.00	0.43
3:P2:145:ASP:HA	3:P2:146:PRO:HD3	1.37	0.43
2:Q2:31:ARG:C	2:Q2:31:ARG:CD	2.91	0.43
13:T2:201:CYC:HMD3	13:T2:201:CYC:NC	2.33	0.43
2:W2:25:LEU:HB3	13:W2:203:CYC:CMC	2.47	0.43
2:F3:34:ARG:CZ	2:F3:146:GLN:HE21	2.31	0.43
4:N3:285:SER:OG	4:N3:286:ALA:N	2.51	0.43
2:B4:94:ARG:HA	3:C4:19:PHE:HE1	1.79	0.43
3:I4:119:GLN:HE21	3:T4:122:GLY:HA2	1.82	0.43
4:N4:97:GLU:HG2	4:N4:108:PRO:HG2	2.00	0.43
3:P4:150:THR:OG1	13:P4:202:CYC:CAA	2.62	0.43
2:Q4:119:ILE:HD13	13:Q4:201:CYC:CMA	2.48	0.43
2:S4:143:LEU:HD12	2:S4:143:LEU:HA	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U4:5:PRO:HG2	2:U4:31:ARG:HG3	1.99	0.43
13:V4:201:CYC:HMC1	13:V4:201:CYC:HBC2	2.00	0.43
5:A5:29:THR:HA	5:A5:30:PRO:HD3	1.89	0.43
5:A5:215:ASP:H	5:A5:218:LYS:HE3	1.82	0.43
5:A5:222:LEU:HD22	7:q9:82:LEU:HD13	2.01	0.43
3:G5:108:ASP:OD1	3:G5:112:ASN:ND2	2.48	0.43
3:I5:115:ARG:HG2	3:I5:119:GLN:HE22	1.83	0.43
3:M5:156:GLN:CD	3:M5:156:GLN:C	2.86	0.43
3:T5:156:GLN:CD	3:T5:156:GLN:C	2.86	0.43
3:Z5:2:THR:HG22	3:Z5:105:VAL:HG22	1.99	0.43
13:Z5:202:CYC:HMC1	13:Z5:202:CYC:HBC2	2.00	0.43
2:B6:43:ARG:HG2	3:C6:25:LEU:HD13	2.00	0.43
13:C6:202:CYC:HMD3	13:C6:202:CYC:NC	2.33	0.43
2:D6:74:GLN:NE2	2:D6:75:PHE:CE2	2.80	0.43
3:G6:149:ILE:HG21	13:G6:201:CYC:CHD	2.48	0.43
4:N6:3:ILE:O	4:N6:7:ALA:HB2	2.19	0.43
4:N6:223:LYS:HA	4:N6:238:ARG:HH11	1.81	0.43
4:N6:242:THR:OG1	4:N6:243:GLY:N	2.52	0.43
4:N6:285:SER:OG	4:N6:286:ALA:N	2.51	0.43
2:S6:31:ARG:O	2:S6:35:ALA:HB3	2.18	0.43
2:D7:143:LEU:HD12	2:D7:143:LEU:HA	1.89	0.43
2:F7:119:ILE:HD11	13:F7:1001:CYC:C3A	2.43	0.43
13:I7:202:CYC:NC	13:I7:202:CYC:HMD3	2.33	0.43
13:K7:201:CYC:NC	13:K7:201:CYC:HMD3	2.33	0.43
13:M7:201:CYC:NC	13:M7:201:CYC:HMD3	2.33	0.43
7:E8:44:THR:HG22	8:F8:19:TYR:HB3	1.99	0.43
8:F8:109:VAL:HG11	13:F8:1001:CYC:HAB1	1.98	0.43
7:H8:20:PRO:HB3	7:X9:151:SER:CB	2.44	0.43
9:U8:30:LYS:HD3	10:09:779:THR:CG2	2.48	0.43
8:a8:82:CYS:SG	13:b8:1001:CYC:HAC1	2.51	0.43
8:f8:88:TYR:CG	13:f8:1001:CYC:HBB3	2.53	0.43
7:j8:50:LEU:HD21	7:j8:137:ALA:HB2	1.99	0.43
8:k8:111:ASN:HB3	10:09:1032:PRO:HG2	2.00	0.43
7:n8:16:ARG:HA	10:09:989:GLN:HE22	1.75	0.43
10:09:42:GLU:HB3	7:T9:25:ARG:HB3	2.00	0.43
10:09:837:ILE:HA	10:09:840:PHE:HB3	2.00	0.43
10:09:1037:ILE:HD12	10:09:1037:ILE:HA	1.84	0.43
7:E9:98:ALA:HB2	8:F9:10:ILE:HD12	1.99	0.43
8:O9:84:ARG:HH11	13:O9:1001:CYC:CGA	2.30	0.43
12:V9:39:ILE:HD12	12:V9:145:ASP:HB3	2.00	0.43
11:g9:1:MET:HE3	11:g9:1:MET:HB2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:40:ASP:OD2	3:CA:40:ASP:N	2.39	0.43
3:EA:118:TYR:HD1	3:EA:123:THR:HG23	1.82	0.43
2:QA:16:GLN:HB3	2:QA:18:ARG:HD3	1.99	0.43
2:WA:93:LEU:O	2:WA:97:THR:OG1	2.33	0.43
1:A1:9:LYS:HB3	3:E1:108:ASP:HB3	2.00	0.43
1:A1:80:ARG:HG3	1:A1:149:TYR:HE2	1.82	0.43
3:E1:36:ASN:ND2	13:E1:202:CYC:HAA2	2.33	0.43
3:G1:83:CYS:HB2	13:G1:202:CYC:H2C	2.00	0.43
4:N1:164:GLY:HA2	4:N1:167:ARG:HD2	2.00	0.43
3:R1:77:ASN:OD1	13:S1:1001:CYC:C4B	2.66	0.43
3:T1:40:ASP:CG	13:T1:201:CYC:NA	2.76	0.43
3:T1:137:ASP:OD2	3:T1:137:ASP:N	2.50	0.43
3:E2:85:ARG:NH2	13:E2:201:CYC:CGA	2.80	0.43
2:S2:5:PRO:HG3	2:Y2:23:THR:CB	2.47	0.43
13:T2:201:CYC:CBD	13:T2:201:CYC:CHA	2.85	0.43
13:T2:201:CYC:C3B	2:Y2:34:ARG:NH2	2.81	0.43
2:U2:28:ALA:HB1	3:V2:39:LEU:HD21	2.01	0.43
3:V2:121:LEU:HB3	13:V2:202:CYC:O2A	2.18	0.43
13:V2:201:CYC:NC	13:V2:201:CYC:HMD3	2.33	0.43
2:Y2:143:LEU:HD12	2:Y2:143:LEU:HA	1.89	0.43
3:G3:149:ILE:HG21	13:G3:202:CYC:CHD	2.48	0.43
13:K3:201:CYC:NC	13:K3:201:CYC:HMD3	2.33	0.43
2:F4:26:GLN:NE2	2:L4:103:GLY:O	2.51	0.43
3:I4:137:ASP:OD2	3:I4:137:ASP:N	2.50	0.43
4:N4:164:GLY:HA2	4:N4:167:ARG:HD2	2.00	0.43
13:A5:304:CYC:O1A	13:A5:304:CYC:C2A	2.65	0.43
13:M5:1003:CYC:HBC2	13:M5:1003:CYC:HMC1	2.00	0.43
13:R5:201:CYC:NC	13:R5:201:CYC:HMD3	2.33	0.43
2:U5:61:TYR:OH	2:U5:85:CYS:SG	2.68	0.43
3:V5:2:THR:HG22	3:V5:105:VAL:HG22	2.00	0.43
3:Z5:118:TYR:HD1	3:Z5:123:THR:HG23	1.83	0.43
5:A6:230:GLY:CA	7:I9:66:VAL:HB	2.48	0.43
3:I6:124:PRO:HB3	3:T6:66:GLN:NE2	2.33	0.43
4:N6:237:TYR:HA	4:N6:285:SER:HA	2.01	0.43
2:S6:5:PRO:HG3	2:Y6:23:THR:CB	2.47	0.43
13:V6:201:CYC:NC	13:V6:201:CYC:HMD3	2.33	0.43
13:V6:201:CYC:HMC1	13:V6:201:CYC:HBC2	2.00	0.43
3:X6:38:ARG:CG	3:X6:157:LEU:CD1	2.93	0.43
13:Z6:201:CYC:HMC1	13:Z6:201:CYC:HBC2	2.00	0.43
6:A7:71:GLN:HB3	6:A7:77:ILE:CD1	2.48	0.43
2:D7:88:ASP:OD2	13:D7:1001:CYC:NA	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:H7:1001:CYC:CGD	3:M7:58:ARG:NH1	2.74	0.43
3:I7:41:VAL:CG2	13:I7:202:CYC:HMB1	2.34	0.43
13:K7:202:CYC:HBC2	13:K7:202:CYC:HMC1	2.00	0.43
8:B8:88:TYR:CG	13:B8:1001:CYC:HBB3	2.53	0.43
9:G8:22:GLU:O	9:G8:26:THR:N	2.42	0.43
7:J8:61:LYS:CE	7:n8:68:PRO:HG2	2.47	0.43
8:K8:88:TYR:CG	13:K8:1001:CYC:HBB3	2.53	0.43
7:r8:119:LEU:HD23	7:r8:119:LEU:HA	1.90	0.43
8:u8:109:VAL:CG1	13:19:1201:CYC:CAB	2.73	0.43
10:09:189:ARG:NH1	10:09:238:LYS:O	2.51	0.43
10:09:482:PHE:O	10:09:623:ARG:NH1	2.49	0.43
10:09:698:GLU:O	10:09:699:LEU:C	2.60	0.43
10:09:760:TYR:HD1	10:09:760:TYR:HA	1.31	0.43
10:19:192:ILE:HD11	13:19:1202:CYC:NC	2.32	0.43
10:19:400:THR:OG1	9:39:24:GLN:CD	2.59	0.43
10:19:778:ILE:HG23	10:19:782:GLU:HB2	2.00	0.43
10:19:837:ILE:HA	10:19:840:PHE:HB3	2.01	0.43
10:19:908:ILE:HA	10:19:911:LYS:HB3	2.00	0.43
7:i9:72:ALA:HA	7:i9:77:MET:HB3	2.00	0.43
12:m9:64:ASP:N	12:m9:64:ASP:OD1	2.50	0.43
7:s9:87:TYR:HB3	13:s9:1001:CYC:HBB3	1.98	0.43
13:CA:201:CYC:NC	13:CA:201:CYC:HMD3	2.33	0.43
3:IA:115:ARG:HG2	3:IA:119:GLN:HE22	1.83	0.43
3:RA:118:TYR:HD1	3:RA:123:THR:HG23	1.82	0.43
3:XA:142:ILE:HD13	3:XA:142:ILE:HA	1.76	0.43
2:F1:25:LEU:CD2	13:G1:201:CYC:CBB	2.92	0.43
2:O1:85:CYS:HB3	13:O1:1001:CYC:CBC	2.49	0.43
3:V1:79:ARG:C	13:V1:202:CYC:HMA1	2.43	0.43
3:C2:83:CYS:HB3	13:C2:201:CYC:CAC	2.41	0.43
2:D2:88:ASP:OD2	13:D2:1001:CYC:NA	2.51	0.43
3:M2:157:LEU:O	3:M2:161:VAL:CB	2.67	0.43
4:N2:118:LEU:HD12	4:N2:118:LEU:HA	1.84	0.43
2:U2:88:ASP:HA	13:U2:202:CYC:HMB2	2.00	0.43
3:Z2:33:LYS:HD2	3:Z2:33:LYS:HA	1.72	0.43
2:D3:29:ARG:HD3	2:D3:29:ARG:C	2.43	0.43
2:D3:29:ARG:HG3	13:E3:202:CYC:OB	2.19	0.43
2:F3:74:GLN:CD	2:F3:74:GLN:N	2.73	0.43
3:K3:121:LEU:HG	13:K3:201:CYC:HAA2	2.00	0.43
3:K4:107:ASP:HA	3:K4:111:LEU:HB2	1.99	0.43
2:L4:34:ARG:HA	2:L4:34:ARG:HD2	1.84	0.43
13:P4:202:CYC:HBC2	13:P4:202:CYC:HMC1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U4:20:LEU:HD13	3:V4:99:LEU:HD13	2.01	0.43
13:V4:201:CYC:NC	13:V4:201:CYC:HMD3	2.33	0.43
13:X4:201:CYC:O1A	13:X4:201:CYC:C2A	2.66	0.43
13:Z4:201:CYC:HMC1	13:Z4:201:CYC:HBC2	2.00	0.43
5:A5:223:ALA:CA	7:q9:82:LEU:HD11	2.48	0.43
3:K5:2:THR:HG22	3:K5:105:VAL:HG22	1.99	0.43
3:Z5:111:LEU:HD13	3:Z5:111:LEU:HA	1.90	0.43
5:A6:39:SER:O	3:M6:2:THR:N	2.52	0.43
2:D6:38:SER:OG	2:D6:100:LEU:O	2.36	0.43
2:F6:34:ARG:HE	2:F6:34:ARG:CA	2.29	0.43
13:G6:201:CYC:NC	13:G6:201:CYC:HMD3	2.33	0.43
13:I6:202:CYC:HMC1	13:I6:202:CYC:HBC2	2.00	0.43
13:K6:202:CYC:NC	13:K6:202:CYC:HMD3	2.32	0.43
13:K6:202:CYC:HBC2	13:K6:202:CYC:HMC1	2.00	0.43
3:V6:118:TYR:HE1	3:V6:128:VAL:HG21	1.84	0.43
3:X6:33:LYS:HD2	3:X6:33:LYS:HA	1.93	0.43
3:X6:53:VAL:HG13	3:X6:87:MET:CG	2.48	0.43
3:Z6:118:TYR:HE1	3:Z6:128:VAL:HG21	1.84	0.43
6:A7:103:TYR:CD1	6:A7:128:SER:OG	2.60	0.43
6:A7:104:ARG:NE	6:A7:108:ILE:HG12	2.33	0.43
2:H7:31:ARG:CD	2:H7:31:ARG:C	2.85	0.43
3:I7:58:ARG:NH1	13:J7:1001:CYC:O1D	2.51	0.43
4:N7:237:TYR:HA	4:N7:285:SER:HA	2.01	0.43
8:B8:47:ALA:HA	7:I9:154:ASP:OD1	2.18	0.43
8:R8:108:ARG:HH11	10:09:732:VAL:CG1	2.30	0.43
7:S8:50:LEU:HD21	7:S8:137:ALA:HB2	1.99	0.43
9:b8:31:LEU:HB2	10:19:1008:ILE:CG2	2.47	0.43
7:c8:125:ALA:HB3	13:c8:1001:CYC:CMC	2.37	0.43
8:h8:41:ALA:HA	8:h8:44:THR:HG22	2.01	0.43
7:l8:119:LEU:HD23	7:l8:119:LEU:HA	1.89	0.43
8:o8:88:TYR:CE1	13:o8:1001:CYC:CAB	3.02	0.43
13:19:1204:CYC:CGA	8:a9:84:ARG:HH11	2.30	0.43
7:G9:72:ALA:HA	7:G9:77:MET:HB3	1.99	0.43
7:k9:72:ALA:HA	7:k9:77:MET:HB3	2.00	0.43
8:l9:63:TYR:HE1	12:m9:80:LEU:HD13	1.84	0.43
2:FA:6:ILE:HG13	2:FA:31:ARG:HD2	2.01	0.43
2:JA:16:GLN:HB3	2:JA:18:ARG:HD3	1.99	0.43
2:SA:32:TYR:HD1	3:TA:32:VAL:HA	1.83	0.43
3:TA:127:SER:HB3	13:TA:201:CYC:HBB2	1.94	0.43
13:TA:202:CYC:HBD1	13:TA:202:CYC:CHA	2.28	0.43
13:UA:1001:CYC:O1A	3:ZA:68:ILE:HD11	1.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:93:LYS:HG3	1:A1:97:ILE:HD12	2.01	0.43
13:I1:202:CYC:HMC1	13:I1:202:CYC:HBC2	2.00	0.43
13:M1:202:CYC:NC	13:M1:202:CYC:HMD3	2.33	0.43
2:O1:123:PHE:CE2	13:O1:1001:CYC:HBA1	2.54	0.43
13:P1:202:CYC:HMC1	13:P1:202:CYC:HBC2	2.00	0.43
3:R1:85:ARG:C	3:R1:85:ARG:HD2	2.44	0.43
3:T1:107:ASP:HA	3:T1:111:LEU:HB2	1.99	0.43
5:A2:223:ALA:HB1	7:X9:78:THR:HG21	1.91	0.43
3:C2:93:TYR:CE2	3:C2:110:CYS:SG	2.96	0.43
2:D2:29:ARG:HG3	13:E2:202:CYC:OB	2.19	0.43
3:E2:118:TYR:HE1	3:E2:128:VAL:HG21	1.84	0.43
3:I2:44:ARG:HH22	3:I2:147:ASN:H	1.66	0.43
2:L2:73:PRO:O	13:L2:201:CYC:CBD	2.59	0.43
13:M2:201:CYC:NC	13:M2:201:CYC:HMD3	2.33	0.43
3:P2:80:MET:HE2	2:Q2:123:PHE:CE2	2.54	0.43
3:R2:41:VAL:CG2	13:U2:201:CYC:CBC	2.96	0.43
2:S2:31:ARG:O	2:S2:35:ALA:HB3	2.18	0.43
13:W2:201:CYC:HMC1	13:W2:201:CYC:HBC2	2.00	0.43
6:A3:80:ARG:HD2	6:A3:144:LEU:CG	2.48	0.43
2:H3:94:ARG:HH21	3:I3:14:ASP:HA	1.82	0.43
3:I3:144:ASN:ND2	3:I3:158:ILE:HD13	2.34	0.43
2:L3:31:ARG:NH1	2:L3:103:GLY:N	2.61	0.43
1:A4:195:ILE:CG2	7:V8:76:GLU:O	2.66	0.43
3:P4:20:LEU:HD23	3:P4:20:LEU:HA	1.81	0.43
3:P4:107:ASP:HA	3:P4:111:LEU:HB2	1.99	0.43
5:A5:131:ILE:CB	13:A5:301:CYC:O2A	2.65	0.43
13:A5:302:CYC:HMA1	13:A5:302:CYC:HB	1.83	0.43
13:A5:303:CYC:C1C	3:G5:74:ALA:HB2	2.42	0.43
3:C5:2:THR:HG22	3:C5:105:VAL:HG22	1.99	0.43
3:P5:115:ARG:HG2	3:P5:119:GLN:HE22	1.83	0.43
2:U5:29:ARG:CD	13:V5:202:CYC:OC	2.62	0.43
3:V5:108:ASP:OD1	3:V5:112:ASN:ND2	2.48	0.43
3:X5:115:ARG:HG2	3:X5:119:GLN:HE22	1.83	0.43
2:Y5:29:ARG:HB2	3:Z5:39:LEU:HD21	2.01	0.43
2:B6:73:PRO:CG	3:G6:58:ARG:HH21	2.32	0.43
3:I6:144:ASN:ND2	3:I6:158:ILE:HD13	2.34	0.43
3:K6:20:LEU:HD23	3:K6:20:LEU:HA	1.91	0.43
2:L6:38:SER:OG	2:L6:100:LEU:O	2.36	0.43
2:O6:93:LEU:HD23	2:O6:93:LEU:HA	1.90	0.43
3:V6:121:LEU:HB3	13:V6:202:CYC:O2A	2.19	0.43
6:A7:3:ILE:HG22	6:A7:4:PRO:HD2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:57:HIS:CE1	3:G7:86:ASP:N	2.69	0.43
6:A7:113:PHE:CD2	6:A7:113:PHE:N	2.87	0.43
2:B7:34:ARG:HH22	13:K7:202:CYC:CAC	2.19	0.43
13:C7:201:CYC:HBD1	13:C7:201:CYC:CHA	2.28	0.43
13:I7:202:CYC:HMC1	13:I7:202:CYC:HBC2	2.00	0.43
8:B8:82:CYS:SG	13:B8:1001:CYC:HAC1	2.51	0.43
7:E8:49:ARG:HH12	8:n9:140:SER:CA	2.28	0.43
7:J8:12:ASP:CG	8:K8:92:TYR:HE1	2.26	0.43
7:L8:90:ARG:HA	8:M8:19:TYR:CE1	2.54	0.43
7:O8:50:LEU:HD21	7:O8:137:ALA:HB2	1.99	0.43
7:O8:79:ALA:HB1	5:AA:243:TYR:HA	2.01	0.43
7:Q8:142:SER:O	7:Q8:146:ALA:N	2.50	0.43
9:U8:22:GLU:O	9:U8:26:THR:N	2.42	0.43
7:V8:100:ASP:HB3	7:V8:102:THR:HG23	2.01	0.43
7:V8:123:ILE:HD13	7:V8:123:ILE:HA	1.92	0.43
8:a8:109:VAL:HG11	13:b8:1001:CYC:HAB1	1.98	0.43
9:i8:7:ILE:HG13	9:i8:37:TRP:CZ3	2.53	0.43
9:i8:31:LEU:CD1	10:09:1002:LYS:HE2	2.49	0.43
8:k8:41:ALA:HA	8:k8:44:THR:HG22	2.01	0.43
8:o8:66:ILE:HG21	10:09:1128:ARG:HD2	1.86	0.43
8:o8:82:CYS:CA	13:o8:1001:CYC:CAC	2.85	0.43
8:s8:109:VAL:CG1	13:s8:1001:CYC:CAB	2.73	0.43
10:09:386:LEU:HD23	10:09:386:LEU:HA	1.83	0.43
10:19:981:GLN:HG2	10:19:1090:PRO:HB2	1.99	0.43
13:19:1203:CYC:CGA	8:Y9:84:ARG:HH11	2.30	0.43
7:i9:107:ILE:HA	8:n9:75:THR:HG23	2.01	0.43
7:w9:79:ALA:CB	5:AA:220:ALA:HB2	2.48	0.43
3:KA:142:ILE:HD13	3:KA:142:ILE:HA	1.76	0.43
4:NA:92:GLN:HB3	4:NA:118:LEU:HD21	1.99	0.43
3:VA:123:THR:CB	13:VA:201:CYC:O1A	2.66	0.43
13:VA:202:CYC:NC	13:VA:202:CYC:HMD3	2.33	0.43
13:ZA:202:CYC:HMC1	13:ZA:202:CYC:HBC2	2.00	0.43
1:A1:168:ARG:CB	1:A1:173:VAL:HG22	2.36	0.43
1:A1:209:THR:CB	7:c8:67:SER:CB	2.96	0.43
3:I1:20:LEU:HD23	3:I1:20:LEU:HA	1.81	0.43
2:J1:41:ALA:HB2	2:J1:147:ALA:HB1	1.99	0.43
3:T1:36:ASN:HD21	13:T1:201:CYC:HBA2	1.83	0.43
2:J2:38:SER:OG	2:J2:100:LEU:O	2.36	0.43
13:K2:201:CYC:HBC2	13:K2:201:CYC:HMC1	2.00	0.43
4:N2:85:LYS:HB3	4:N2:180:ARG:HD3	2.00	0.43
3:R2:154:CYS:CB	13:U2:201:CYC:CAC	2.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S2:154:TYR:CZ	2:Y2:22:ASN:ND2	2.69	0.43
13:Z2:201:CYC:HBC2	13:Z2:201:CYC:HMC1	2.00	0.43
6:A3:50:TYR:CD1	6:A3:54:PHE:CE2	3.07	0.43
6:A3:125:ILE:HG22	13:A3:301:CYC:HAA1	2.00	0.43
3:E3:47:SER:C	2:H3:160:ASN:HD21	2.27	0.43
2:F3:119:ILE:HD11	13:F3:1001:CYC:C3A	2.43	0.43
3:I3:40:ASP:HB2	13:I3:202:CYC:HD	1.84	0.43
2:L3:14:ASP:OD1	3:M3:93:TYR:OH	2.31	0.43
1:A4:198:PHE:HB2	7:V8:79:ALA:O	2.18	0.43
13:C4:302:CYC:NC	13:C4:302:CYC:HMD3	2.33	0.43
13:Q4:202:CYC:NC	13:Q4:202:CYC:HMD3	2.32	0.43
3:V4:152:GLY:HA3	13:V4:201:CYC:HMA1	1.98	0.43
2:W4:85:CYS:CB	13:W4:1001:CYC:HAC2	2.49	0.43
5:A5:165:LYS:HB3	5:A5:165:LYS:HE3	1.76	0.43
2:D5:14:ASP:OD2	3:E5:109:ARG:HD3	2.19	0.43
13:E5:201:CYC:HBC2	13:E5:201:CYC:HMC1	2.00	0.43
3:I5:2:THR:HG22	3:I5:105:VAL:HG22	2.00	0.43
3:K5:44:ARG:HH21	3:K5:149:ILE:HD12	1.82	0.43
3:R5:146:PRO:HB3	3:R5:151:LYS:NZ	2.33	0.43
3:T5:2:THR:HG22	3:T5:105:VAL:HG22	1.99	0.43
13:T5:202:CYC:NC	13:T5:202:CYC:HMD3	2.33	0.43
3:V5:118:TYR:HD1	3:V5:123:THR:HG23	1.82	0.43
2:H6:38:SER:OG	2:H6:100:LEU:O	2.36	0.43
13:K6:201:CYC:HBC2	13:K6:201:CYC:HMC1	2.00	0.43
13:K6:202:CYC:HBD1	13:K6:202:CYC:CHA	2.29	0.43
2:O6:34:ARG:NE	13:X6:202:CYC:H2C	2.30	0.43
3:P6:60:LEU:HD13	3:P6:87:MET:HE1	2.00	0.43
3:P6:80:MET:HE2	2:Q6:123:PHE:CE2	2.54	0.43
3:P6:118:TYR:HE1	3:P6:128:VAL:HG21	1.84	0.43
2:Q6:123:PHE:CE2	13:Q6:201:CYC:HAA1	2.53	0.43
13:X6:202:CYC:NC	13:X6:202:CYC:HMD3	2.33	0.43
6:A7:58:LEU:C	6:A7:60:ILE:HG13	2.44	0.43
6:A7:104:ARG:O	6:A7:108:ILE:CG1	2.43	0.43
3:C7:118:TYR:HE1	3:C7:128:VAL:HG21	1.84	0.43
3:I7:44:ARG:HH22	3:I7:147:ASN:H	1.66	0.43
3:M7:157:LEU:O	3:M7:161:VAL:CB	2.67	0.43
7:A8:100:ASP:HB3	7:A8:102:THR:HG23	2.01	0.43
8:M8:41:ALA:HA	8:M8:44:THR:HG22	2.01	0.43
7:O8:100:ASP:HB3	7:O8:102:THR:HG23	2.01	0.43
7:Q8:100:ASP:HB3	7:Q8:102:THR:HG23	2.01	0.43
7:S8:94:TYR:OH	8:T8:18:LYS:O	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W8:41:ALA:HA	8:W8:44:THR:HG22	2.01	0.43
7:g8:100:ASP:HB3	7:g8:102:THR:HG23	2.01	0.43
8:h8:88:TYR:CG	13:h8:1001:CYC:HBB3	2.53	0.43
13:k8:1001:CYC:CGA	10:09:1059:ASN:HD22	2.31	0.43
7:n8:94:TYR:HE1	8:o8:20:LEU:HG	1.84	0.43
10:19:700:GLY:HA3	7:s9:83:ARG:HD2	2.01	0.43
10:19:1005:ASN:ND2	10:19:1007:GLU:OE2	2.52	0.43
8:e9:84:ARG:HH11	13:e9:1001:CYC:CGA	2.30	0.43
3:PA:2:THR:HG22	3:PA:105:VAL:HG22	1.99	0.43
3:RA:149:ILE:HG21	13:RA:201:CYC:ND	2.33	0.43
3:TA:118:TYR:HD1	3:TA:123:THR:HG23	1.82	0.43
3:VA:115:ARG:HG2	3:VA:119:GLN:HE22	1.83	0.43
1:A1:129:ILE:HD11	3:C1:85:ARG:NH1	2.34	0.43
1:A1:153:PHE:CE1	1:A1:159:PRO:HA	2.54	0.43
2:D1:107:PRO:HG3	3:E1:10:VAL:HG11	2.00	0.43
2:F1:26:GLN:NE2	2:L1:103:GLY:O	2.51	0.43
2:J1:37:ALA:O	2:J1:147:ALA:HB1	2.18	0.43
13:K1:201:CYC:HBC2	13:K1:201:CYC:HMC1	2.00	0.43
2:L1:84:LYS:HE2	13:L1:201:CYC:O2A	2.19	0.43
4:N1:212:TRP:CD1	4:N1:212:TRP:H	2.36	0.43
2:O1:85:CYS:CB	13:O1:1001:CYC:CBC	2.97	0.43
2:W1:85:CYS:CB	13:W1:1001:CYC:HAC2	2.49	0.43
5:A2:194:TRP:NE1	7:d9:66:VAL:HG21	2.33	0.43
3:C2:114:LEU:HD23	3:C2:172:VAL:CG2	2.43	0.43
3:I2:144:ASN:C	13:I2:202:CYC:HBB1	2.38	0.43
2:J2:143:LEU:HD12	2:J2:143:LEU:HA	1.89	0.43
13:K2:202:CYC:HBC2	13:K2:202:CYC:HMC1	2.00	0.43
3:P2:44:ARG:NH2	3:P2:149:ILE:CB	2.75	0.43
2:S2:35:ALA:O	2:S2:36:ALA:C	2.61	0.43
3:T2:118:TYR:HE1	3:T2:128:VAL:HG21	1.84	0.43
3:V2:150:THR:OG1	13:V2:201:CYC:CBA	2.59	0.43
2:B3:43:ARG:HG2	3:C3:25:LEU:HD13	2.00	0.43
3:C3:118:TYR:HE1	3:C3:128:VAL:HG21	1.84	0.43
3:G3:118:TYR:HE1	3:G3:128:VAL:HG21	1.84	0.43
2:H3:31:ARG:CD	2:H3:35:ALA:HB2	2.49	0.43
2:L3:119:ILE:CD1	13:L3:201:CYC:CMA	2.91	0.43
2:L3:150:GLU:CD	2:L3:150:GLU:C	2.86	0.43
2:D4:107:PRO:HG3	3:E4:10:VAL:HG11	2.00	0.43
3:E4:107:ASP:OD1	3:E4:167:ARG:NH1	2.52	0.43
3:G4:83:CYS:HB2	13:G4:202:CYC:C2C	2.48	0.43
3:K4:20:LEU:HD23	3:K4:20:LEU:HA	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N4:138:GLU:OE2	4:N4:152:ARG:NH2	2.44	0.43
2:Q4:29:ARG:HD3	13:Q4:202:CYC:OB	2.19	0.43
3:T4:76:THR:HG21	3:T4:79:ARG:NE	2.27	0.43
2:U4:143:LEU:HD23	2:U4:148:ALA:HA	2.01	0.43
3:X4:89:ILE:HG21	13:X4:201:CYC:CBB	2.25	0.43
3:C5:118:TYR:HD1	3:C5:123:THR:HG23	1.82	0.43
3:I5:118:TYR:HD1	3:I5:123:THR:HG23	1.83	0.43
13:I5:202:CYC:HMC1	13:I5:202:CYC:HBC2	2.00	0.43
13:P5:202:CYC:HBC2	13:P5:202:CYC:HMC1	2.00	0.43
13:E6:202:CYC:NC	13:E6:202:CYC:HMD3	2.32	0.43
2:F6:34:ARG:CZ	2:F6:146:GLN:HE21	2.31	0.43
3:G6:118:TYR:HE1	3:G6:128:VAL:HG21	1.84	0.43
2:L6:73:PRO:O	13:L6:201:CYC:CBD	2.59	0.43
3:M6:118:TYR:HE1	3:M6:128:VAL:HG21	1.84	0.43
13:N6:302:CYC:C3A	3:T6:82:ALA:HB3	2.49	0.43
3:Z6:86:ASP:HB2	13:Z6:202:CYC:HMB2	2.01	0.43
3:K7:57:ALA:O	3:K7:61:PHE:HD2	1.99	0.43
7:C8:100:ASP:HB3	7:C8:102:THR:HG23	2.01	0.43
7:E8:50:LEU:HD21	7:E8:137:ALA:HB2	1.99	0.43
8:I8:88:TYR:CG	13:I8:1001:CYC:HBB3	2.53	0.43
8:P8:41:ALA:HA	8:P8:44:THR:HG22	2.01	0.43
8:T8:88:TYR:CG	13:T8:1001:CYC:HBB3	2.53	0.43
7:X8:142:SER:O	7:X8:146:ALA:N	2.50	0.43
8:m8:88:TYR:CG	13:09:1201:CYC:HBB3	2.53	0.43
10:09:327:ARG:NH2	10:09:388:ASP:OD1	2.35	0.43
10:09:907:PRO:HD3	8:x9:152:ILE:HD12	1.99	0.43
10:19:549:ILE:HG21	10:19:571:GLU:HG3	2.01	0.43
9:49:23:LEU:HD12	9:49:23:LEU:O	2.18	0.43
8:H9:75:THR:HG23	7:I9:107:ILE:HG23	1.99	0.43
7:K9:118:SER:O	7:K9:118:SER:OG	2.35	0.43
7:o9:72:ALA:HA	7:o9:77:MET:HB3	2.00	0.43
2:BA:32:TYR:CD1	3:CA:35:GLY:HA3	2.53	0.43
3:CA:54:THR:O	3:CA:58:ARG:HG3	2.18	0.43
2:DA:88:ASP:OD2	2:DA:130:TYR:OH	2.34	0.43
3:EA:143:ALA:O	13:EA:201:CYC:HMC1	2.18	0.43
2:FA:5:PRO:HG2	2:FA:31:ARG:HD2	2.01	0.43
3:KA:44:ARG:HH21	3:KA:149:ILE:HD12	1.82	0.43
1:A1:84:ARG:HG2	1:A1:144:LEU:CD1	2.48	0.43
13:E1:202:CYC:HBD1	13:E1:202:CYC:CHA	2.28	0.43
3:G1:61:PHE:CZ	3:G1:83:CYS:SG	3.06	0.43
2:L1:35:ALA:O	2:L1:39:LEU:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Q1:202:CYC:HAD1	3:R1:150:THR:OG1	2.19	0.43
13:V1:201:CYC:HMC1	13:V1:201:CYC:HBC2	2.00	0.43
5:A2:191:GLN:N	7:d9:75:GLN:HE21	2.17	0.43
2:B2:143:LEU:HD12	2:B2:143:LEU:HA	1.89	0.43
3:K2:87:MET:HE1	13:K2:201:CYC:CMB	2.49	0.43
3:M2:154:CYS:SG	13:M2:201:CYC:HAB1	2.59	0.43
4:N2:76:VAL:O	4:N2:79:SER:OG	2.37	0.43
4:N2:242:THR:OG1	4:N2:243:GLY:N	2.52	0.43
3:T2:91:LEU:HD23	3:T2:91:LEU:HA	1.89	0.43
2:U2:38:SER:OG	2:U2:100:LEU:O	2.36	0.43
3:C3:157:LEU:O	3:C3:161:VAL:N	2.43	0.43
3:G3:44:ARG:NH2	3:G3:149:ILE:HG12	2.34	0.43
3:G3:82:ALA:HB3	13:G3:201:CYC:C2D	2.46	0.43
3:I3:91:LEU:HD23	3:I3:91:LEU:HA	1.89	0.43
13:I3:201:CYC:O1A	13:I3:201:CYC:C2A	2.66	0.43
3:M3:118:TYR:HE1	3:M3:128:VAL:HG21	1.84	0.43
1:A4:25:GLU:HG3	2:F4:3:LYS:HG3	2.01	0.43
2:B4:18:ARG:NH1	2:J4:109:ASP:OD1	2.49	0.43
3:E4:128:VAL:HG22	13:E4:201:CYC:H3C	2.00	0.43
2:O4:123:PHE:CE2	13:O4:1001:CYC:HBA1	2.54	0.43
3:Z4:121:LEU:HD21	13:Z4:202:CYC:HAA2	2.00	0.43
5:A5:42:THR:OG1	2:L5:2:VAL:N	2.45	0.43
2:F5:5:PRO:HG2	2:F5:31:ARG:HD2	2.00	0.43
2:J5:34:ARG:NH1	2:J5:150:GLU:CD	2.72	0.43
13:K5:201:CYC:HMC1	13:K5:201:CYC:HBC2	2.00	0.43
2:O5:31:ARG:HH21	2:O5:31:ARG:HG3	1.84	0.43
3:R5:115:ARG:HG2	3:R5:119:GLN:HE22	1.83	0.43
3:V5:121:LEU:HD23	13:V5:201:CYC:CBA	2.49	0.43
3:Z5:115:ARG:HG2	3:Z5:119:GLN:HE22	1.83	0.43
2:B6:143:LEU:HD12	2:B6:143:LEU:HA	1.89	0.43
2:D6:29:ARG:HG3	13:E6:202:CYC:OB	2.19	0.43
2:H6:31:ARG:NH1	2:H6:101:VAL:O	2.51	0.43
2:L6:14:ASP:OD1	3:M6:93:TYR:OH	2.31	0.43
3:M6:109:ARG:O	13:N6:301:CYC:HAB1	2.18	0.43
4:N6:236:VAL:HA	4:N6:262:PRO:HA	2.00	0.43
4:N6:238:ARG:HH21	4:N6:258:VAL:HG11	1.81	0.43
3:T6:118:TYR:HE1	3:T6:128:VAL:HG21	1.84	0.43
2:U6:28:ALA:HB1	3:V6:39:LEU:HD21	2.01	0.43
3:X6:38:ARG:HG3	3:X6:157:LEU:CD2	2.44	0.43
3:X6:83:CYS:CB	13:X6:201:CYC:HAC1	2.41	0.43
6:A7:12:SER:HA	6:A7:16:ARG:HH11	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:43:ARG:HG2	3:C7:25:LEU:HD13	2.00	0.43
2:F7:143:LEU:HD12	2:F7:143:LEU:HA	1.89	0.43
2:H7:38:SER:OG	2:H7:100:LEU:O	2.36	0.43
3:K7:118:TYR:HE1	3:K7:128:VAL:HG21	1.84	0.43
4:N7:236:VAL:HA	4:N7:262:PRO:HA	2.00	0.43
8:B8:41:ALA:HA	8:B8:44:THR:HG22	2.01	0.43
7:H8:110:ILE:HG23	8:M8:77:ARG:HB3	2.01	0.43
7:S8:100:ASP:HB3	7:S8:102:THR:HG23	2.01	0.43
8:o8:41:ALA:HA	8:o8:44:THR:HG22	2.01	0.43
8:q8:88:TYR:CG	13:q8:1001:CYC:HBB3	2.53	0.43
10:19:220:PRO:HA	10:19:223:ALA:HB3	2.00	0.43
10:19:303:ALA:HB1	8:h9:84:ARG:HD3	2.00	0.43
9:39:53:LYS:HE3	9:39:53:LYS:HB2	1.79	0.43
8:H9:84:ARG:HH11	13:H9:1001:CYC:CGA	2.30	0.43
8:J9:62:LEU:HD23	8:J9:62:LEU:HA	1.88	0.43
11:Q9:12:TYR:CZ	11:Q9:23:ALA:HB2	2.54	0.43
12:V9:48:LYS:HD2	12:V9:48:LYS:HA	1.71	0.43
7:s9:72:ALA:HA	7:s9:77:MET:HB3	2.00	0.43
2:DA:61:TYR:OH	2:DA:85:CYS:SG	2.68	0.43
3:EA:115:ARG:HG2	3:EA:119:GLN:HE22	1.83	0.43
13:GA:1002:CYC:CBD	13:GA:1002:CYC:CHA	2.86	0.43
3:IA:85:ARG:NH2	13:IA:201:CYC:O1A	2.52	0.43
13:IA:202:CYC:HBC2	13:IA:202:CYC:HMC1	2.00	0.43
3:KA:115:ARG:HG2	3:KA:119:GLN:HE22	1.83	0.43
2:LA:93:LEU:O	2:LA:97:THR:OG1	2.33	0.43
3:MA:2:THR:HG22	3:MA:105:VAL:HG22	1.99	0.43
3:PA:89:ILE:HG12	13:PA:201:CYC:HBB2	1.96	0.43
2:B1:83:SER:CB	8:d8:27:LYS:CE	2.97	0.43
2:D1:40:GLU:OE1	2:D1:40:GLU:N	2.47	0.43
13:E1:202:CYC:HBC2	13:E1:202:CYC:HMC1	2.00	0.43
3:K1:118:TYR:O	3:K1:122:GLY:N	2.43	0.43
13:Q1:202:CYC:HBC2	13:Q1:202:CYC:HMC1	2.00	0.43
2:S1:40:GLU:OE1	2:S1:40:GLU:N	2.48	0.43
2:W1:43:ARG:O	2:W1:47:SER:OG	2.32	0.43
3:X1:128:VAL:HG22	13:X1:201:CYC:HMC1	2.01	0.43
13:X1:201:CYC:HHA	13:X1:201:CYC:HAD2	1.91	0.43
3:C2:68:ILE:HD13	13:D2:1001:CYC:O1A	2.18	0.43
2:F2:119:ILE:HD11	13:F2:1001:CYC:C3A	2.43	0.43
4:N2:106:ARG:NH2	4:N2:138:GLU:OE1	2.49	0.43
4:N2:237:TYR:HA	4:N2:285:SER:HA	2.01	0.43
13:C3:201:CYC:HBC2	13:C3:201:CYC:HMC1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K3:87:MET:HE1	13:K3:201:CYC:CMB	2.49	0.43
3:M3:157:LEU:O	3:M3:161:VAL:N	2.49	0.43
1:A4:100:ASN:ND2	1:A4:104:ARG:HE	2.17	0.43
2:B4:43:ARG:O	2:B4:47:SER:OG	2.33	0.43
3:E4:128:VAL:HG22	13:E4:201:CYC:CBC	2.40	0.43
3:G4:83:CYS:HB2	13:G4:202:CYC:H2C	2.00	0.43
3:P4:86:ASP:O	3:P4:89:ILE:N	2.50	0.43
5:A5:222:LEU:C	5:A5:222:LEU:CD2	2.92	0.43
3:I5:85:ARG:NH2	13:I5:201:CYC:O1A	2.52	0.43
5:A6:64:PHE:CZ	2:B6:109:ASP:OD2	2.72	0.43
13:C6:202:CYC:CBD	13:C6:202:CYC:CHA	2.85	0.43
2:D6:29:ARG:HD3	2:D6:29:ARG:C	2.43	0.43
13:G6:201:CYC:CBD	13:G6:201:CYC:CHA	2.85	0.43
2:H6:29:ARG:CD	13:I6:202:CYC:OC	2.41	0.43
3:I6:118:TYR:HE1	3:I6:128:VAL:HG21	1.84	0.43
2:L6:32:TYR:HE2	3:M6:35:GLY:HA3	1.84	0.43
3:M6:154:CYS:SG	13:M6:201:CYC:HAB1	2.59	0.43
3:P6:80:MET:HE3	3:P6:84:LEU:CG	2.49	0.43
2:S6:29:ARG:NH2	13:T6:201:CYC:OB	2.52	0.43
3:Z6:44:ARG:NH2	3:Z6:149:ILE:CG1	2.82	0.43
6:A7:61:LYS:HG3	2:B7:117:ALA:CB	2.49	0.43
2:B7:68:THR:HA	2:B7:77:ALA:CA	2.45	0.43
2:F7:46:THR:HG23	3:G7:19:PHE:HB3	2.00	0.43
3:G7:44:ARG:NH2	3:G7:149:ILE:HG12	2.34	0.43
3:I7:144:ASN:ND2	3:I7:158:ILE:HD13	2.34	0.43
2:J7:85:CYS:CA	13:J7:1001:CYC:HAC2	2.41	0.43
3:M7:154:CYS:SG	13:M7:201:CYC:HAB1	2.59	0.43
8:B8:84:ARG:CZ	10:09:572:ILE:HD13	2.47	0.43
8:D8:41:ALA:HA	8:D8:44:THR:HG22	2.01	0.43
9:b8:21:ARG:NH2	10:19:963:THR:HG21	2.32	0.43
7:c8:100:ASP:HB3	7:c8:102:THR:HG23	2.01	0.43
8:d8:82:CYS:SG	13:d8:1001:CYC:HAC1	2.51	0.43
8:f8:82:CYS:SG	13:f8:1001:CYC:HAC1	2.51	0.43
9:i8:10:LEU:HD12	9:i8:27:TYR:HD2	1.84	0.43
8:k8:88:TYR:CG	13:k8:1001:CYC:HBB3	2.53	0.43
8:s8:109:VAL:HG11	13:s8:1001:CYC:HAB1	1.98	0.43
10:09:1009:SER:HB3	10:09:1012:GLU:HG3	2.01	0.43
10:19:276:LYS:HA	10:19:276:LYS:HD2	1.89	0.43
8:H9:79:TYR:CE1	7:I9:115:MET:HG3	2.53	0.43
2:BA:93:LEU:HD23	2:BA:93:LEU:HA	1.90	0.43
2:DA:14:ASP:OD2	3:EA:109:ARG:HD3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QA:88:ASP:OD2	2:QA:130:TYR:OH	2.34	0.43
1:A1:46:ILE:HD12	1:A1:46:ILE:HA	1.85	0.42
3:G1:154:CYS:CB	13:G1:201:CYC:HBC1	2.48	0.42
13:G1:201:CYC:CBD	13:G1:201:CYC:CHA	2.85	0.42
3:R1:7:THR:HA	3:R1:10:VAL:HB	2.01	0.42
13:V1:201:CYC:NC	13:V1:201:CYC:HMD3	2.33	0.42
5:A2:39:SER:O	3:M2:2:THR:N	2.52	0.42
3:G2:118:TYR:HE1	3:G2:128:VAL:HG21	1.84	0.42
13:I2:202:CYC:NC	13:I2:202:CYC:HMD3	2.33	0.42
3:K2:144:ASN:ND2	3:K2:158:ILE:HD12	2.32	0.42
3:M2:118:TYR:HE1	3:M2:128:VAL:HG21	1.84	0.42
2:Q2:91:HIS:HB3	13:Q2:201:CYC:CBB	2.49	0.42
2:U2:94:ARG:NH1	3:Z2:75:TYR:HH	2.17	0.42
3:Z2:85:ARG:HG3	3:Z2:86:ASP:N	2.32	0.42
6:A3:71:GLN:HG2	6:A3:77:ILE:HD11	2.01	0.42
2:B3:119:ILE:HD12	13:B3:1001:CYC:HMA3	1.94	0.42
3:I3:118:TYR:HE1	3:I3:128:VAL:HG21	1.84	0.42
2:L3:38:SER:OG	2:L3:100:LEU:O	2.36	0.42
13:E4:202:CYC:HBC2	13:E4:202:CYC:HMC1	2.00	0.42
3:G4:76:THR:HG22	3:G4:79:ARG:HD2	2.01	0.42
3:G4:154:CYS:HB2	13:G4:201:CYC:HBC1	2.01	0.42
3:I4:20:LEU:HD23	3:I4:20:LEU:HA	1.81	0.42
2:J4:34:ARG:HD2	2:J4:34:ARG:HA	1.84	0.42
3:K4:137:ASP:OD2	3:K4:137:ASP:N	2.50	0.42
13:K4:202:CYC:HMC1	13:K4:202:CYC:HBC2	2.00	0.42
2:L4:14:ASP:OD2	3:M4:109:ARG:NH1	2.52	0.42
3:R4:7:THR:HA	3:R4:10:VAL:HB	2.01	0.42
2:S4:74:GLN:HA	13:S4:1001:CYC:CBD	2.43	0.42
2:Y4:88:ASP:OD2	13:Y4:201:CYC:ND	2.49	0.42
5:A5:131:ILE:CG1	13:A5:301:CYC:O2A	2.65	0.42
2:F5:36:ALA:O	2:F5:40:GLU:OE1	2.37	0.42
2:F5:93:LEU:O	2:F5:97:THR:OG1	2.33	0.42
3:R5:149:ILE:HG21	13:R5:201:CYC:ND	2.33	0.42
3:T5:149:ILE:HD12	3:T5:149:ILE:H	1.81	0.42
13:V5:201:CYC:O1A	13:V5:201:CYC:C2A	2.65	0.42
3:X5:154:CYS:HB2	13:X5:202:CYC:C3B	2.49	0.42
3:Z5:39:LEU:CD2	13:Z5:202:CYC:C1C	2.97	0.42
2:J6:53:ILE:HG23	2:J6:89:VAL:HG12	2.01	0.42
2:L6:93:LEU:HD23	2:L6:93:LEU:HA	1.89	0.42
4:N6:10:LEU:HD22	4:N6:169:PHE:CD1	2.38	0.42
2:W6:29:ARG:NH1	13:X6:202:CYC:HMD3	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y6:53:ILE:HG23	2:Y6:89:VAL:HG12	2.01	0.42
6:A7:80:ARG:HD2	6:A7:144:LEU:CG	2.48	0.42
3:I7:118:TYR:HE1	3:I7:128:VAL:HG21	1.84	0.42
13:K7:202:CYC:NC	13:K7:202:CYC:HMD3	2.32	0.42
7:E8:69:GLY:CA	7:E9:60:GLN:HG3	2.49	0.42
8:F8:88:TYR:CG	13:F8:1001:CYC:HBB3	2.53	0.42
9:b8:42:GLN:NE2	13:b8:1001:CYC:OB	2.51	0.42
7:e8:100:ASP:HB3	7:e8:102:THR:HG23	2.01	0.42
8:f8:41:ALA:HA	8:f8:44:THR:HG22	2.01	0.42
10:19:743:THR:HB	7:s9:14:GLU:HG2	2.01	0.42
11:Q9:86:MET:HE1	11:Q9:130:GLY:HA3	2.01	0.42
5:AA:166:ARG:NH2	5:AA:171:PRO:N	2.67	0.42
3:CA:44:ARG:HG2	3:CA:143:ALA:HA	2.01	0.42
2:FA:156:ASP:HA	2:FA:159:ILE:HB	2.01	0.42
3:MA:37:LYS:HB3	3:MA:157:LEU:HD23	2.00	0.42
4:NA:54:ARG:O	4:NA:59:GLU:OE2	2.36	0.42
3:ZA:39:LEU:CD2	13:ZA:202:CYC:C1C	2.97	0.42
1:A1:25:GLU:HG3	2:F1:3:LYS:HG3	2.01	0.42
2:B1:43:ARG:O	2:B1:47:SER:OG	2.33	0.42
2:J1:37:ALA:O	2:J1:147:ALA:HA	2.19	0.42
3:K1:107:ASP:OD1	3:K1:167:ARG:NH1	2.52	0.42
3:R1:75:TYR:CZ	13:S1:1001:CYC:CBB	3.02	0.42
2:S1:143:LEU:CD2	2:S1:148:ALA:HA	2.48	0.42
3:V1:7:THR:HA	3:V1:10:VAL:HB	2.01	0.42
5:A2:174:LEU:HD11	3:G2:109:ARG:O	2.19	0.42
5:A2:213:GLU:OE1	5:A2:218:LYS:NZ	2.52	0.42
5:A2:234:GLN:HE21	7:J8:73:TYR:HE1	1.52	0.42
3:C2:118:TYR:HE1	3:C2:128:VAL:HG21	1.84	0.42
3:G2:145:ASP:HA	3:G2:146:PRO:HD3	1.83	0.42
2:L2:53:ILE:HG23	2:L2:89:VAL:HG12	2.02	0.42
13:N2:302:CYC:O2A	3:T2:121:LEU:HD13	2.17	0.42
2:U2:53:ILE:HG23	2:U2:89:VAL:HG12	2.01	0.42
2:Y2:88:ASP:OD1	13:Y2:201:CYC:HHB	2.13	0.42
6:A3:65:GLN:OE1	6:A3:67:PHE:HE1	1.94	0.42
3:C3:70:PRO:HB2	3:E3:17:GLY:HA3	1.99	0.42
2:F3:2:VAL:N	3:G3:2:THR:OG1	2.53	0.42
2:L3:53:ILE:HG23	2:L3:89:VAL:HG12	2.01	0.42
3:M3:154:CYS:SG	13:M3:201:CYC:HAB1	2.59	0.42
13:I4:201:CYC:O1A	13:I4:201:CYC:C2A	2.66	0.42
3:K4:7:THR:HA	3:K4:10:VAL:HB	2.02	0.42
2:L4:35:ALA:O	2:L4:39:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O4:137:ILE:O	2:O4:141:HIS:CD2	2.72	0.42
2:Q4:40:GLU:OE1	2:Q4:40:GLU:N	2.47	0.42
13:Q4:202:CYC:HAD1	3:R4:150:THR:OG1	2.19	0.42
13:T4:201:CYC:HBC2	13:T4:201:CYC:HMC1	2.00	0.42
5:A5:131:ILE:HB	13:A5:301:CYC:O2A	2.17	0.42
5:A5:171:PRO:HG2	5:A5:174:LEU:HD23	2.01	0.42
2:B5:93:LEU:O	2:B5:97:THR:OG1	2.33	0.42
3:E5:44:ARG:HG2	3:E5:143:ALA:HA	2.01	0.42
3:P5:118:TYR:HD1	3:P5:123:THR:HG23	1.83	0.42
3:T5:115:ARG:HG2	3:T5:119:GLN:HE22	1.83	0.42
13:T5:202:CYC:CBD	13:T5:202:CYC:CHA	2.85	0.42
2:U5:29:ARG:HB2	3:V5:39:LEU:HD21	2.01	0.42
2:W5:156:ASP:HA	2:W5:159:ILE:HB	2.01	0.42
5:A6:3:LEU:HD23	5:A6:3:LEU:HA	1.85	0.42
2:B6:31:ARG:HH22	2:B6:35:ALA:HB1	1.78	0.42
2:J6:85:CYS:CA	13:J6:1001:CYC:HAC2	2.41	0.42
3:K6:87:MET:HE1	13:K6:201:CYC:CMB	2.49	0.42
2:Q6:30:GLY:CA	2:U6:30:GLY:HA2	2.38	0.42
3:T6:43:ASN:HD22	13:T6:201:CYC:HMB3	1.84	0.42
13:W6:201:CYC:HMC1	13:W6:201:CYC:HBC2	2.00	0.42
6:A7:50:TYR:CD1	6:A7:54:PHE:CE2	3.07	0.42
2:B7:119:ILE:HD11	13:B7:1001:CYC:C3A	2.35	0.42
13:C7:201:CYC:HBC2	13:C7:201:CYC:HMC1	2.00	0.42
2:F7:34:ARG:HE	2:F7:34:ARG:CA	2.29	0.42
3:I7:40:ASP:HB2	13:I7:202:CYC:HD	1.84	0.42
7:A8:119:LEU:HD23	7:A8:119:LEU:HA	1.89	0.42
8:D8:88:TYR:CG	13:D8:1001:CYC:HBB3	2.53	0.42
7:Q8:64:ASP:OD1	7:u9:69:GLY:O	2.36	0.42
7:e8:20:PRO:HG2	7:n8:101:VAL:HG11	2.00	0.42
7:l8:100:ASP:HB3	7:l8:102:THR:HG23	2.01	0.42
7:n8:123:ILE:HD13	7:n8:123:ILE:HA	1.92	0.42
8:s8:41:ALA:HA	8:s8:44:THR:HG22	2.01	0.42
10:19:802:PRO:HG3	8:p9:111:ASN:HB3	2.02	0.42
7:d9:72:ALA:HA	7:d9:77:MET:HB3	1.99	0.42
11:g9:84:ARG:NH2	11:g9:88:TYR:OH	2.52	0.42
12:m9:23:LEU:HD23	12:m9:26:ILE:HD12	2.01	0.42
12:m9:27:SER:HA	12:m9:30:LEU:HD12	2.00	0.42
8:p9:4:ASP:H	8:p9:7:THR:HB	1.85	0.42
5:AA:11:SER:HB3	5:AA:122:ASN:HD21	1.84	0.42
3:EA:157:LEU:C	3:EA:157:LEU:CD2	2.85	0.42
13:EA:201:CYC:HBC2	13:EA:201:CYC:HMC1	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FA:36:ALA:O	2:FA:40:GLU:OE1	2.37	0.42
2:LA:34:ARG:HH22	2:LA:150:GLU:HB2	1.79	0.42
3:MA:149:ILE:CD1	3:MA:149:ILE:H	2.30	0.42
3:MA:154:CYS:SG	13:MA:1003:CYC:HMB3	2.48	0.42
3:TA:44:ARG:HG2	3:TA:143:ALA:HA	2.01	0.42
2:UA:29:ARG:HB2	3:VA:39:LEU:HD21	2.01	0.42
3:XA:44:ARG:HG2	3:XA:143:ALA:HA	2.01	0.42
3:XA:154:CYS:HB2	13:XA:202:CYC:C3B	2.49	0.42
2:YA:29:ARG:HB2	3:ZA:39:LEU:HD21	2.01	0.42
1:A1:205:ILE:HG22	7:c8:59:PHE:HD2	1.80	0.42
3:C1:79:ARG:O	13:C1:301:CYC:CMD	2.63	0.42
3:E1:7:THR:HA	3:E1:10:VAL:HB	2.01	0.42
3:E1:58:ARG:NH1	2:F1:73:PRO:HG3	2.34	0.42
2:J1:74:GLN:HA	13:J1:1001:CYC:CBD	2.44	0.42
2:J1:146:GLN:CD	2:J1:146:GLN:N	2.73	0.42
3:P1:79:ARG:O	3:P1:82:ALA:N	2.52	0.42
3:P1:150:THR:OG1	13:P1:202:CYC:CAA	2.62	0.42
3:R1:80:MET:HE3	3:R1:84:LEU:HD22	2.01	0.42
3:V1:39:LEU:HD13	13:V1:201:CYC:CMC	2.49	0.42
2:W1:34:ARG:HD2	2:W1:34:ARG:HA	1.84	0.42
3:X1:7:THR:HA	3:X1:10:VAL:HB	2.02	0.42
3:X1:137:ASP:OD2	3:X1:137:ASP:N	2.50	0.42
3:Z1:152:GLY:N	13:Z1:201:CYC:C4B	2.76	0.42
3:C2:15:SER:O	7:d9:73:TYR:CE1	2.73	0.42
13:C2:202:CYC:HBC2	13:C2:202:CYC:HMC1	2.00	0.42
2:H2:31:ARG:HH21	2:H2:35:ALA:N	2.16	0.42
2:J2:53:ILE:HG23	2:J2:89:VAL:HG12	2.02	0.42
4:N2:3:ILE:O	4:N2:7:ALA:HB2	2.19	0.42
4:N2:14:PRO:HD3	3:P2:109:ARG:HH12	1.85	0.42
4:N2:285:SER:OG	4:N2:286:ALA:N	2.51	0.42
3:P2:80:MET:HE3	3:P2:84:LEU:CG	2.49	0.42
2:Q2:123:PHE:CE2	13:Q2:201:CYC:HAA1	2.53	0.42
2:S2:29:ARG:NH2	13:T2:201:CYC:HB	2.03	0.42
3:V2:118:TYR:HE1	3:V2:128:VAL:HG21	1.84	0.42
3:E3:118:TYR:HE1	3:E3:128:VAL:HG21	1.84	0.42
13:G3:202:CYC:HBC2	13:G3:202:CYC:HMC1	2.00	0.42
2:J3:53:ILE:HG23	2:J3:89:VAL:HG12	2.01	0.42
4:N3:237:TYR:HA	4:N3:285:SER:HA	2.00	0.42
1:A4:107:GLU:OE1	1:A4:111:LYS:NZ	2.43	0.42
3:E4:7:THR:HA	3:E4:10:VAL:HB	2.01	0.42
2:L4:41:ALA:HB1	2:L4:151:ALA:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L4:84:LYS:HE2	13:L4:201:CYC:O2A	2.19	0.42
2:O4:85:CYS:HB3	13:O4:1001:CYC:CBC	2.49	0.42
3:R4:80:MET:HE3	3:R4:84:LEU:HD22	2.01	0.42
3:T4:40:ASP:CG	13:T4:201:CYC:NA	2.76	0.42
2:U4:141:HIS:CE1	2:U4:143:LEU:HB3	2.55	0.42
2:U4:146:GLN:H	2:U4:146:GLN:HG3	1.62	0.42
5:A5:13:GLN:NE2	5:A5:119:SER:OG	2.52	0.42
2:D5:156:ASP:HA	2:D5:159:ILE:HB	2.02	0.42
3:I5:133:GLN:H	3:I5:133:GLN:HG3	1.64	0.42
2:J5:156:ASP:HA	2:J5:159:ILE:HB	2.01	0.42
3:K5:95:THR:HA	3:K5:98:ILE:HD12	2.02	0.42
3:M5:44:ARG:HG2	3:M5:143:ALA:HA	2.01	0.42
4:N5:54:ARG:O	4:N5:59:GLU:OE2	2.36	0.42
4:N5:62:LEU:HD23	4:N5:72:PHE:CE1	2.51	0.42
2:F6:2:VAL:N	3:G6:2:THR:OG1	2.53	0.42
3:G6:43:ASN:O	3:G6:47:SER:OG	2.30	0.42
4:N6:106:ARG:NH2	4:N6:138:GLU:OE1	2.49	0.42
3:P6:145:ASP:HA	3:P6:146:PRO:HD3	1.38	0.42
3:R6:91:LEU:HD23	3:R6:91:LEU:HA	1.89	0.42
13:T6:201:CYC:CBD	13:T6:201:CYC:CHA	2.85	0.42
6:A7:106:VAL:HG11	6:A7:127:TRP:HB2	2.01	0.42
2:B7:38:SER:OG	2:B7:100:LEU:O	2.36	0.42
2:F7:2:VAL:N	3:G7:2:THR:OG1	2.53	0.42
3:G7:82:ALA:HB3	13:G7:201:CYC:C2D	2.46	0.42
3:K7:43:ASN:O	3:K7:47:SER:OG	2.30	0.42
7:J8:140:LEU:HD23	7:J8:140:LEU:HA	1.84	0.42
7:L8:125:ALA:HB3	13:L8:1001:CYC:CMC	2.37	0.42
8:d8:41:ALA:HA	8:d8:44:THR:HG22	2.01	0.42
8:h8:111:ASN:HD21	9:i8:51:ILE:N	2.17	0.42
7:j8:100:ASP:HB3	7:j8:102:THR:HG23	2.01	0.42
10:09:359:ARG:HA	10:09:424:PHE:HZ	1.84	0.42
10:09:495:PRO:HB3	7:G9:110:ILE:HD11	2.02	0.42
10:19:833:ALA:HB2	8:p9:84:ARG:HD2	2.02	0.42
8:D9:4:ASP:H	8:D9:7:THR:HB	1.85	0.42
7:E9:4:VAL:HB	8:F9:4:ASP:OD2	2.19	0.42
12:V9:6:GLN:HG3	12:V9:10:GLN:NE2	2.35	0.42
8:a9:4:ASP:H	8:a9:7:THR:HB	1.84	0.42
8:x9:113:LEU:HD12	8:x9:113:LEU:HA	1.84	0.42
8:z9:4:ASP:H	8:z9:7:THR:HB	1.85	0.42
5:AA:210:GLN:CG	5:AA:211:LEU:N	2.81	0.42
3:CA:95:THR:HA	3:CA:98:ILE:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NA:221:ALA:O	4:NA:238:ARG:NH2	2.52	0.42
2:QA:61:TYR:OH	2:QA:85:CYS:SG	2.68	0.42
3:RA:146:PRO:HB3	3:RA:151:LYS:NZ	2.33	0.42
2:UA:6:ILE:HG13	2:UA:31:ARG:HD3	2.01	0.42
3:XA:95:THR:HA	3:XA:98:ILE:HD12	2.02	0.42
1:A1:201:LEU:CB	7:c8:52:LYS:CE	2.87	0.42
3:G1:83:CYS:HB2	13:G1:202:CYC:C2C	2.48	0.42
3:G1:137:ASP:OD2	3:G1:137:ASP:N	2.51	0.42
3:I1:107:ASP:OD1	3:I1:167:ARG:NH1	2.52	0.42
2:O1:137:ILE:O	2:O1:141:HIS:CD2	2.72	0.42
3:P1:137:ASP:OD2	3:P1:137:ASP:N	2.50	0.42
3:V1:107:ASP:OD1	3:V1:167:ARG:NH1	2.52	0.42
13:X1:202:CYC:HMC1	13:X1:202:CYC:HBC2	2.00	0.42
3:Z1:121:LEU:HD21	13:Z1:202:CYC:HAA2	2.00	0.42
5:A2:73:GLN:CD	4:N2:227:GLY:HA3	2.40	0.42
13:H2:1001:CYC:CGD	3:M2:58:ARG:NH1	2.75	0.42
3:K2:118:TYR:HE1	3:K2:128:VAL:HG21	1.84	0.42
4:N2:190:LEU:HD13	4:N2:190:LEU:HA	1.89	0.42
3:R2:54:THR:O	3:R2:58:ARG:HD3	2.20	0.42
2:S2:53:ILE:HG23	2:S2:89:VAL:HG12	2.02	0.42
6:A3:80:ARG:HG3	6:A3:144:LEU:HD23	1.98	0.42
3:K3:73:ASN:HD22	3:K3:123:THR:CA	2.32	0.42
3:C4:7:THR:HA	3:C4:10:VAL:HB	2.02	0.42
2:F4:119:ILE:HD11	13:F4:1001:CYC:CAA	2.38	0.42
3:X4:7:THR:HA	3:X4:10:VAL:HB	2.02	0.42
3:C5:95:THR:HA	3:C5:98:ILE:HD12	2.02	0.42
3:I5:95:THR:HA	3:I5:98:ILE:HD12	2.02	0.42
3:M5:154:CYS:CB	13:M5:1003:CYC:CAB	2.98	0.42
4:N5:221:ALA:O	4:N5:238:ARG:NH2	2.52	0.42
2:O5:93:LEU:O	2:O5:97:THR:OG1	2.33	0.42
3:P5:44:ARG:HG2	3:P5:143:ALA:HA	2.01	0.42
3:P5:83:CYS:HA	13:P5:201:CYC:CAC	2.50	0.42
13:X5:201:CYC:O1A	13:X5:201:CYC:C2A	2.65	0.42
5:A6:213:GLU:OE1	5:A6:218:LYS:NZ	2.52	0.42
3:G6:44:ARG:NH2	3:G6:149:ILE:HG12	2.34	0.42
3:K6:118:TYR:HE1	3:K6:128:VAL:HG21	1.84	0.42
4:N6:10:LEU:HD13	4:N6:12:THR:HG21	2.01	0.42
2:O6:34:ARG:CD	2:W6:26:GLN:HG2	2.50	0.42
2:O6:38:SER:OG	2:O6:100:LEU:O	2.36	0.42
2:W6:38:SER:OG	2:W6:100:LEU:O	2.36	0.42
6:A7:109:THR:CB	6:A7:139:PHE:HE2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L7:119:ILE:CD1	13:L7:201:CYC:HMA3	2.50	0.42
8:K8:91:ARG:HH11	8:K8:95:TYR:HH	1.66	0.42
9:U8:10:LEU:HD12	9:U8:27:TYR:HD2	1.84	0.42
8:W8:82:CYS:SG	13:W8:1001:CYC:HAC1	2.51	0.42
7:Z8:59:PHE:HB3	7:I9:73:TYR:HE1	1.84	0.42
9:b8:38:PHE:HD2	13:b8:1001:CYC:HMA2	1.85	0.42
7:n8:140:LEU:HD23	7:n8:140:LEU:HA	1.84	0.42
8:a9:16:GLN:HG2	11:g9:128:VAL:HB	2.01	0.42
7:d9:47:ARG:O	7:d9:51:VAL:HG23	2.19	0.42
12:m9:39:ILE:HD12	12:m9:145:ASP:HB3	2.00	0.42
12:m9:102:GLU:HA	12:m9:105:GLU:HB3	2.01	0.42
8:p9:113:LEU:HD12	8:p9:113:LEU:HA	1.84	0.42
8:r9:113:LEU:HD12	8:r9:113:LEU:HA	1.84	0.42
8:t9:84:ARG:HH11	13:t9:1001:CYC:CGA	2.30	0.42
3:EA:154:CYS:HB2	13:EA:201:CYC:CAC	2.43	0.42
2:HA:39:LEU:O	2:HA:42:ALA:N	2.53	0.42
2:LA:34:ARG:HH21	2:LA:150:GLU:HB2	1.76	0.42
4:NA:154:PHE:HA	4:NA:165:PHE:HE2	1.85	0.42
3:PA:83:CYS:HA	13:PA:201:CYC:CAC	2.50	0.42
3:PA:95:THR:HA	3:PA:98:ILE:HD12	2.02	0.42
3:RA:156:GLN:CD	3:RA:156:GLN:C	2.88	0.42
3:TA:95:THR:HA	3:TA:98:ILE:HD12	2.01	0.42
1:A1:100:ASN:ND2	1:A1:104:ARG:HE	2.17	0.42
3:C1:70:PRO:CB	3:E1:17:GLY:HA3	2.50	0.42
3:C1:79:ARG:O	3:C1:82:ALA:HB3	2.20	0.42
2:J1:123:PHE:CE2	13:J1:1001:CYC:HBA1	2.55	0.42
3:K1:7:THR:HA	3:K1:10:VAL:HB	2.01	0.42
3:K1:83:CYS:CB	13:K1:201:CYC:CHB	2.97	0.42
2:L1:14:ASP:OD2	3:M1:109:ARG:NH1	2.52	0.42
3:M1:137:ASP:N	3:M1:137:ASP:OD2	2.50	0.42
3:P1:7:THR:HA	3:P1:10:VAL:HB	2.01	0.42
3:P1:93:TYR:CD2	13:P1:201:CYC:HBB1	2.41	0.42
2:Q1:34:ARG:HA	2:Q1:34:ARG:HD2	1.84	0.42
3:R1:80:MET:CE	3:R1:84:LEU:HD22	2.49	0.42
2:S1:43:ARG:O	2:S1:47:SER:OG	2.33	0.42
3:V1:152:GLY:N	13:V1:201:CYC:C4B	2.76	0.42
2:W1:150:GLU:O	2:W1:153:THR:HG23	2.19	0.42
5:A2:64:PHE:CZ	2:B2:109:ASP:OD2	2.72	0.42
2:D2:52:LEU:HD22	2:D2:137:ILE:HG23	2.02	0.42
3:G2:34:GLU:CG	3:G2:157:LEU:HD22	2.43	0.42
13:K2:201:CYC:CBD	13:K2:201:CYC:CHA	2.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O2:53:ILE:HG23	2:O2:89:VAL:HG12	2.02	0.42
2:Q2:22:ASN:O	2:Q2:26:GLN:HG3	2.19	0.42
2:Q2:34:ARG:NH2	2:Q2:150:GLU:HG2	2.35	0.42
3:R2:121:LEU:CD1	13:R2:1001:CYC:C2A	2.92	0.42
2:S2:85:CYS:SG	13:S2:1001:CYC:CBC	3.07	0.42
3:T2:43:ASN:HD22	13:T2:201:CYC:HMB3	1.84	0.42
2:W2:25:LEU:HB3	13:W2:203:CYC:HMC1	2.02	0.42
6:A3:71:GLN:CD	6:A3:77:ILE:HD13	2.20	0.42
2:D3:93:LEU:HD23	2:D3:93:LEU:HA	1.90	0.42
13:K3:202:CYC:HBC2	13:K3:202:CYC:HMC1	2.00	0.42
2:B4:85:CYS:CA	13:B4:1001:CYC:CAC	2.72	0.42
3:I4:107:ASP:OD1	3:I4:167:ARG:NH1	2.52	0.42
3:M4:36:ASN:HD21	13:M4:202:CYC:HAD1	1.83	0.42
3:M4:76:THR:CG2	3:M4:79:ARG:CG	2.89	0.42
13:M4:202:CYC:NC	13:M4:202:CYC:HMD3	2.33	0.42
2:O4:18:ARG:NH1	2:W4:157:TYR:OH	2.53	0.42
3:T4:79:ARG:O	3:T4:82:ALA:HB3	2.20	0.42
3:V4:7:THR:HA	3:V4:10:VAL:HB	2.01	0.42
13:X4:202:CYC:HBC2	13:X4:202:CYC:HMC1	2.00	0.42
5:A5:241:ILE:HD13	7:A9:78:THR:C	2.43	0.42
4:N5:84:LYS:HA	4:N5:88:TYR:CD2	2.55	0.42
3:T5:127:SER:HB3	13:T5:201:CYC:HBB1	1.95	0.42
3:C6:118:TYR:HE1	3:C6:128:VAL:HG21	1.84	0.42
2:F6:34:ARG:HH12	2:F6:146:GLN:HE21	1.67	0.42
3:I6:44:ARG:HH22	3:I6:147:ASN:H	1.66	0.42
4:N6:57:SER:O	4:N6:60:SER:HB2	2.20	0.42
3:R6:41:VAL:HG22	13:U6:201:CYC:CBC	2.50	0.42
2:B7:53:ILE:HG23	2:B7:89:VAL:HG12	2.02	0.42
3:C7:44:ARG:HH22	3:C7:146:PRO:HA	1.85	0.42
2:D7:61:TYR:HH	2:D7:85:CYS:HG	1.61	0.42
2:J7:53:ILE:HG23	2:J7:89:VAL:HG12	2.02	0.42
2:L7:53:ILE:HG23	2:L7:89:VAL:HG12	2.01	0.42
8:B8:50:ALA:CB	7:I9:161:GLN:OE1	2.67	0.42
7:C8:106:GLU:HB2	10:09:538:VAL:HG23	2.01	0.42
9:G8:10:LEU:HD12	9:G8:27:TYR:HD2	1.84	0.42
8:I8:47:ALA:HA	7:X9:154:ASP:CG	2.44	0.42
8:K8:109:VAL:HG11	13:K8:1001:CYC:HAB1	1.98	0.42
13:P8:1001:CYC:HMA2	10:09:771:SER:CB	2.38	0.42
8:T8:109:VAL:HG11	13:T8:1001:CYC:HAB1	1.98	0.42
8:a8:41:ALA:HA	8:a8:44:THR:HG22	2.01	0.42
7:c8:142:SER:O	7:c8:146:ALA:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:n8:100:ASP:HB3	7:n8:102:THR:HG23	2.01	0.42
10:19:374:ILE:HD12	10:19:382:LEU:HD22	2.01	0.42
8:U9:4:ASP:H	8:U9:7:THR:HB	1.84	0.42
11:g9:102:THR:HB	11:g9:159:HIS:CD2	2.54	0.42
7:o9:23:LEU:HD12	8:p9:39:VAL:O	2.19	0.42
8:t9:4:ASP:H	8:t9:7:THR:HB	1.85	0.42
7:w9:83:ARG:CA	5:AA:219:PHE:CD1	3.02	0.42
5:AA:13:GLN:NE2	5:AA:119:SER:OG	2.52	0.42
2:JA:88:ASP:OD2	2:JA:130:TYR:OH	2.34	0.42
3:KA:95:THR:HA	3:KA:98:ILE:HD12	2.02	0.42
2:SA:156:ASP:HA	2:SA:159:ILE:HB	2.02	0.42
13:VA:202:CYC:CBD	13:VA:202:CYC:CHA	2.86	0.42
1:A1:207:ILE:HG22	7:c8:66:VAL:HG21	1.95	0.42
2:D1:88:ASP:O	13:D1:1001:CYC:HMB2	2.20	0.42
3:I1:7:THR:HA	3:I1:10:VAL:HB	2.02	0.42
2:L1:41:ALA:HB1	2:L1:151:ALA:HB2	2.00	0.42
3:M1:7:THR:HA	3:M1:10:VAL:HB	2.01	0.42
4:N1:24:ARG:HD3	4:N1:24:ARG:HA	1.83	0.42
2:O1:18:ARG:NH1	2:W1:157:TYR:OH	2.53	0.42
3:R1:75:TYR:HH	2:S1:94:ARG:HH12	1.64	0.42
3:R1:137:ASP:OD2	3:R1:137:ASP:N	2.51	0.42
3:T1:79:ARG:O	3:T1:82:ALA:HB3	2.20	0.42
3:T1:158:ILE:CD1	13:T1:201:CYC:HBC2	2.42	0.42
2:U1:20:LEU:HD13	3:V1:99:LEU:HD13	2.01	0.42
2:U1:143:LEU:HD23	2:U1:148:ALA:HA	2.01	0.42
3:V1:68:ILE:CD1	13:W1:1001:CYC:CGA	2.95	0.42
3:Z1:20:LEU:HD23	3:Z1:20:LEU:HA	1.81	0.42
5:A2:54:GLN:NE2	5:A2:162:TYR:HA	2.34	0.42
3:C2:83:CYS:HB3	13:C2:201:CYC:C4C	2.50	0.42
2:F2:38:SER:OG	2:F2:100:LEU:O	2.36	0.42
2:F2:52:LEU:HD22	2:F2:137:ILE:HG23	2.02	0.42
2:H2:73:PRO:HB3	3:M2:58:ARG:CZ	2.47	0.42
3:I2:41:VAL:HG22	13:I2:202:CYC:HMB3	1.96	0.42
3:I2:118:TYR:HE1	3:I2:128:VAL:HG21	1.84	0.42
13:N2:302:CYC:C3A	3:T2:82:ALA:HB3	2.49	0.42
2:O2:34:ARG:CZ	13:W2:203:CYC:CBC	2.97	0.42
3:P2:91:LEU:HD23	3:P2:91:LEU:HA	1.89	0.42
2:U2:88:ASP:OD2	13:U2:202:CYC:NA	2.53	0.42
2:W2:53:ILE:HG23	2:W2:89:VAL:HG12	2.02	0.42
6:A3:106:VAL:HG11	6:A3:127:TRP:HB2	2.01	0.42
3:I3:144:ASN:C	13:I3:202:CYC:HBB1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:K3:201:CYC:HBC2	13:K3:201:CYC:HMC1	2.00	0.42
2:J4:123:PHE:CE2	13:J4:1001:CYC:HBA1	2.55	0.42
5:A5:13:GLN:OE1	5:A5:15:HIS:CD2	2.70	0.42
3:R5:154:CYS:CB	13:R5:201:CYC:CAC	2.90	0.42
3:V5:115:ARG:HG2	3:V5:119:GLN:HE22	1.83	0.42
2:H6:53:ILE:HG23	2:H6:89:VAL:HG12	2.01	0.42
2:H6:143:LEU:HD12	2:H6:143:LEU:HA	1.89	0.42
2:L6:53:ILE:HG23	2:L6:89:VAL:HG12	2.01	0.42
4:N6:14:PRO:HD3	3:P6:109:ARG:HH12	1.85	0.42
3:R6:41:VAL:HG23	13:U6:201:CYC:HAC1	2.01	0.42
2:U6:53:ILE:HG23	2:U6:89:VAL:HG12	2.01	0.42
6:A7:53:ILE:HA	6:A7:112:ARG:HG2	2.01	0.42
6:A7:64:ARG:HH21	6:A7:64:ARG:CG	2.12	0.42
2:D7:29:ARG:HG3	13:E7:202:CYC:OB	2.19	0.42
2:F7:52:LEU:HD22	2:F7:137:ILE:HG23	2.02	0.42
3:K7:121:LEU:HG	13:K7:201:CYC:HAA2	2.00	0.42
8:B8:4:ASP:N	8:B8:7:THR:OG1	2.53	0.42
7:Q8:45:ASP:OD2	8:q8:114:LYS:NZ	2.44	0.42
8:R8:88:TYR:CG	13:R8:1001:CYC:HBB3	2.53	0.42
8:d8:116:THR:OG1	10:09:1005:ASN:ND2	2.52	0.42
7:e8:140:LEU:HD23	7:e8:140:LEU:HA	1.84	0.42
8:f8:30:ALA:O	8:f8:34:THR:HG22	2.20	0.42
8:h8:47:ALA:HB2	7:l8:154:ASP:OD1	2.19	0.42
8:k8:30:ALA:O	8:k8:34:THR:HG22	2.20	0.42
8:m8:41:ALA:HA	8:m8:44:THR:HG22	2.01	0.42
8:o8:30:ALA:O	8:o8:34:THR:HG22	2.20	0.42
8:u8:88:TYR:CG	13:19:1201:CYC:HBB3	2.53	0.42
10:19:375:SER:HB3	8:e9:84:ARG:HD2	2.01	0.42
10:19:761:ILE:HD12	10:19:761:ILE:HA	1.90	0.42
10:19:956:PRO:O	10:19:958:ARG:N	2.52	0.42
7:C9:72:ALA:HA	7:C9:77:MET:HB3	1.99	0.42
8:D9:77:ARG:HB3	7:E9:110:ILE:HG23	2.01	0.42
8:O9:4:ASP:H	8:O9:7:THR:HB	1.85	0.42
8:a9:113:LEU:HD12	8:a9:113:LEU:HA	1.84	0.42
8:e9:4:ASP:H	8:e9:7:THR:HB	1.85	0.42
7:q9:118:SER:O	7:q9:118:SER:OG	2.35	0.42
3:CA:39:LEU:C	13:CA:201:CYC:HMB2	2.45	0.42
2:FA:28:ALA:O	2:FA:32:TYR:CD2	2.72	0.42
13:MA:1003:CYC:HBC2	13:MA:1003:CYC:HMC1	2.00	0.42
2:OA:26:GLN:HG2	2:WA:34:ARG:CG	2.50	0.42
3:RA:95:THR:HA	3:RA:98:ILE:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TA:127:SER:CB	13:TA:201:CYC:CBB	2.90	0.42
3:ZA:95:THR:HA	3:ZA:98:ILE:HD12	2.02	0.42
1:A1:191:ILE:HG23	8:h8:68:ARG:HH11	1.82	0.42
2:D1:26:GLN:NE2	2:H1:103:GLY:O	2.53	0.42
3:T1:7:THR:HA	3:T1:10:VAL:HB	2.02	0.42
3:Z1:137:ASP:OD2	3:Z1:137:ASP:N	2.50	0.42
3:C2:41:VAL:O	3:C2:45:ILE:HG12	2.20	0.42
3:C2:70:PRO:HB2	3:E2:17:GLY:HA3	1.99	0.42
2:F2:2:VAL:N	3:G2:2:THR:OG1	2.53	0.42
2:F2:19:PHE:CZ	3:G2:49:ALA:HB1	2.55	0.42
3:G2:82:ALA:HB3	13:G2:202:CYC:C2D	2.46	0.42
2:H2:31:ARG:O	2:H2:31:ARG:HD3	2.19	0.42
2:H2:91:HIS:CG	13:H2:1001:CYC:HBB3	2.55	0.42
3:I2:40:ASP:HB2	13:I2:202:CYC:HD	1.84	0.42
3:M2:43:ASN:O	3:M2:47:SER:OG	2.34	0.42
13:M2:201:CYC:HMC1	13:M2:201:CYC:HBC2	2.00	0.42
3:Z2:44:ARG:NH2	3:Z2:149:ILE:CG1	2.82	0.42
3:Z2:86:ASP:HB2	13:Z2:202:CYC:HMB2	2.01	0.42
2:H3:31:ARG:O	2:H3:31:ARG:HD3	2.20	0.42
3:M3:20:LEU:HD23	3:M3:20:LEU:HA	1.92	0.42
3:M3:83:CYS:CB	13:N3:301:CYC:C3C	2.97	0.42
4:N3:238:ARG:HH21	4:N3:258:VAL:HG11	1.81	0.42
1:A4:59:ILE:C	1:A4:59:ILE:CD1	2.86	0.42
1:A4:93:LYS:HG3	1:A4:97:ILE:HD12	2.01	0.42
1:A4:129:ILE:HD11	3:C4:85:ARG:NH1	2.34	0.42
3:C4:70:PRO:CB	3:E4:17:GLY:HA3	2.50	0.42
3:G4:107:ASP:OD1	3:G4:167:ARG:NH1	2.52	0.42
3:G4:137:ASP:OD2	3:G4:137:ASP:N	2.50	0.42
3:K4:64:GLN:NE2	3:T4:16:ARG:HH12	2.17	0.42
4:N4:155:GLU:CB	4:N4:157:GLN:NE2	2.76	0.42
5:A5:198:LEU:HB3	7:u9:79:ALA:HB3	1.96	0.42
13:A5:304:CYC:CBC	3:K5:114:LEU:CD1	2.96	0.42
3:G5:30:ASN:O	3:G5:34:GLU:N	2.48	0.42
3:K5:44:ARG:HG2	3:K5:143:ALA:HA	2.01	0.42
3:M5:146:PRO:C	3:M5:147:ASN:OD1	2.62	0.42
4:N5:31:GLU:O	4:N5:35:VAL:N	2.50	0.42
4:N5:154:PHE:HA	4:N5:165:PHE:HE2	1.85	0.42
3:P5:95:THR:HA	3:P5:98:ILE:HD12	2.02	0.42
13:P5:202:CYC:CBD	13:P5:202:CYC:CHA	2.86	0.42
2:U5:156:ASP:HA	2:U5:159:ILE:HB	2.02	0.42
3:Z5:95:THR:HA	3:Z5:98:ILE:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A6:202:TYR:CD1	7:N9:48:GLU:HG2	2.54	0.42
2:B6:38:SER:OG	2:B6:100:LEU:O	2.36	0.42
2:B6:119:ILE:HD13	13:B6:1001:CYC:HMA3	1.93	0.42
2:F6:94:ARG:NH2	3:G6:14:ASP:OD2	2.46	0.42
2:H6:61:TYR:OH	2:H6:85:CYS:SG	2.71	0.42
2:L6:72:GLY:HA2	2:L6:73:PRO:HD3	1.80	0.42
3:M6:83:CYS:HB3	13:N6:301:CYC:CAC	2.39	0.42
3:T6:145:ASP:HA	3:T6:146:PRO:HD3	1.70	0.42
3:X6:118:TYR:HE1	3:X6:128:VAL:HG21	1.84	0.42
3:E7:47:SER:C	2:H7:160:ASN:HD21	2.27	0.42
2:H7:73:PRO:HB3	3:M7:58:ARG:CZ	2.47	0.42
2:H7:91:HIS:CG	13:H7:1001:CYC:HBB3	2.55	0.42
3:M7:145:ASP:HA	3:M7:146:PRO:HD3	1.44	0.42
8:D8:82:CYS:SG	13:D8:1001:CYC:HAC1	2.51	0.42
8:F8:41:ALA:HA	8:F8:44:THR:HG22	2.01	0.42
7:H8:23:LEU:HB3	8:I8:39:VAL:HG13	2.02	0.42
8:K8:30:ALA:O	8:K8:34:THR:HG22	2.20	0.42
9:N8:41:GLN:O	9:N8:45:GLN:HG3	2.20	0.42
8:P8:21:ASP:OD1	8:P8:21:ASP:N	2.46	0.42
7:S8:21:GLY:HA2	7:w9:3:ILE:CD1	2.50	0.42
8:T8:30:ALA:O	8:T8:34:THR:HG22	2.20	0.42
9:U8:41:GLN:O	9:U8:45:GLN:HG3	2.20	0.42
7:X8:100:ASP:HB3	7:X8:102:THR:HG23	2.01	0.42
7:p8:100:ASP:HB3	7:p8:102:THR:HG23	2.01	0.42
8:u8:41:ALA:HA	8:u8:44:THR:HG22	2.01	0.42
10:19:1047:ARG:HD3	10:19:1101:ASN:HD21	1.84	0.42
9:49:18:ARG:HH22	13:D9:1001:CYC:CBA	2.29	0.42
8:J9:4:ASP:H	8:J9:7:THR:HB	1.85	0.42
8:O9:62:LEU:HD23	8:O9:62:LEU:HA	1.88	0.42
8:Y9:4:ASP:H	8:Y9:7:THR:HB	1.84	0.42
8:a9:16:GLN:OE1	11:g9:132:GLN:HG3	2.20	0.42
8:j9:4:ASP:H	8:j9:7:THR:HB	1.85	0.42
8:l9:74:TYR:OH	12:m9:90:ARG:NH1	2.53	0.42
7:q9:44:THR:HG23	8:r9:19:TYR:CD1	2.55	0.42
8:r9:4:ASP:H	8:r9:7:THR:HB	1.85	0.42
7:w9:78:THR:CG2	5:AA:223:ALA:CB	2.72	0.42
3:CA:115:ARG:HG2	3:CA:119:GLN:HE22	1.83	0.42
3:EA:2:THR:HG22	3:EA:105:VAL:HG22	2.00	0.42
3:EA:44:ARG:HG2	3:EA:143:ALA:HA	2.01	0.42
13:IA:201:CYC:O1A	13:IA:201:CYC:C2A	2.66	0.42
2:JA:156:ASP:HA	2:JA:159:ILE:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NA:161:LYS:HD2	3:TA:109:ARG:HG2	2.00	0.42
3:PA:154:CYS:CB	13:PA:202:CYC:C3B	2.98	0.42
1:A1:195:ILE:HG22	7:c8:79:ALA:HB3	2.02	0.42
3:E1:64:GLN:HE22	3:E1:127:SER:HA	1.83	0.42
3:G1:76:THR:HG22	3:G1:79:ARG:HD2	2.01	0.42
3:I1:86:ASP:O	3:I1:89:ILE:N	2.50	0.42
3:I1:119:GLN:HE21	3:T1:122:GLY:HA2	1.82	0.42
3:X1:36:ASN:ND2	13:X1:202:CYC:HAD1	2.35	0.42
2:Y1:119:ILE:HD11	13:Y1:201:CYC:HMA1	2.01	0.42
2:F2:34:ARG:HE	2:F2:34:ARG:CA	2.29	0.42
3:M2:157:LEU:O	3:M2:161:VAL:N	2.49	0.42
2:S2:29:ARG:NH2	13:T2:201:CYC:OB	2.52	0.42
2:S2:52:LEU:HD22	2:S2:137:ILE:HG23	2.02	0.42
2:S2:91:HIS:HB2	13:S2:1001:CYC:HMB2	2.02	0.42
2:Y2:53:ILE:HG23	2:Y2:89:VAL:HG12	2.02	0.42
6:A3:71:GLN:CG	6:A3:77:ILE:HD11	2.29	0.42
6:A3:113:PHE:CD2	6:A3:113:PHE:N	2.87	0.42
2:B3:52:LEU:HD22	2:B3:137:ILE:HG23	2.02	0.42
2:D3:38:SER:OG	2:D3:100:LEU:O	2.36	0.42
13:H3:1001:CYC:CGD	3:M3:58:ARG:NH1	2.74	0.42
2:L3:13:ALA:HB2	2:L3:24:GLU:HG2	2.02	0.42
2:L3:72:GLY:HA2	2:L3:73:PRO:HD3	1.80	0.42
1:A4:153:PHE:CE1	1:A4:159:PRO:HA	2.54	0.42
3:C4:83:CYS:SG	13:C4:301:CYC:CHD	3.04	0.42
2:D4:26:GLN:NE2	2:H4:103:GLY:O	2.53	0.42
2:D4:88:ASP:O	13:D4:1001:CYC:HMB2	2.20	0.42
2:J4:37:ALA:O	2:J4:147:ALA:HA	2.19	0.42
4:N4:157:GLN:N	4:N4:157:GLN:CD	2.73	0.42
3:P4:7:THR:HA	3:P4:10:VAL:HB	2.01	0.42
3:R4:80:MET:CE	3:R4:84:LEU:HD22	2.49	0.42
3:T4:7:THR:HA	3:T4:10:VAL:HB	2.02	0.42
5:A5:53:ARG:HD2	5:A5:53:ARG:O	2.20	0.42
5:A5:222:LEU:HD11	7:q9:52:LYS:N	2.35	0.42
3:C5:156:GLN:CD	3:C5:156:GLN:C	2.87	0.42
2:L5:61:TYR:OH	2:L5:85:CYS:SG	2.68	0.42
3:R5:142:ILE:HD13	3:R5:142:ILE:HA	1.76	0.42
5:A6:131:ILE:HG23	5:A6:132:VAL:N	2.35	0.42
5:A6:174:LEU:HD11	3:G6:109:ARG:O	2.19	0.42
2:B6:52:LEU:HD22	2:B6:137:ILE:HG23	2.02	0.42
3:C6:44:ARG:HH22	3:C6:146:PRO:HA	1.85	0.42
3:C6:91:LEU:HD23	3:C6:91:LEU:HA	1.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D6:52:LEU:HD22	2:D6:137:ILE:HG23	2.02	0.42
2:F6:19:PHE:CZ	3:G6:49:ALA:HB1	2.55	0.42
3:I6:40:ASP:HB2	13:I6:202:CYC:HD	1.84	0.42
13:I6:202:CYC:CBD	13:I6:202:CYC:CHA	2.85	0.42
2:L6:119:ILE:CD1	13:L6:201:CYC:HMA3	2.50	0.42
4:N6:85:LYS:HB3	4:N6:180:ARG:HD3	2.00	0.42
4:N6:168:ILE:HG22	4:N6:172:TYR:HE1	1.85	0.42
2:Q6:91:HIS:HB3	13:Q6:201:CYC:CBB	2.49	0.42
2:S6:74:GLN:HA	13:S6:1001:CYC:HBD2	2.02	0.42
13:T6:201:CYC:HMD3	13:T6:201:CYC:NC	2.33	0.42
2:U6:13:ALA:HB2	2:U6:24:GLU:HG2	2.02	0.42
2:U6:94:ARG:NH1	3:Z6:75:TYR:HH	2.17	0.42
2:W6:93:LEU:HD23	2:W6:93:LEU:HA	1.90	0.42
6:A7:103:TYR:HD2	3:C7:113:GLY:HA3	1.83	0.42
2:B7:119:ILE:HD13	13:B7:1001:CYC:CMA	2.33	0.42
3:K7:87:MET:HE1	13:K7:201:CYC:CMB	2.49	0.42
8:D8:141:LEU:HB2	7:E9:49:ARG:HH22	1.85	0.42
7:E8:25:ARG:CG	7:K9:25:ARG:NH1	2.81	0.42
9:G8:41:GLN:O	9:G8:45:GLN:HG3	2.20	0.42
7:L8:49:ARG:NH1	8:W9:140:SER:HB2	2.35	0.42
8:P8:4:ASP:N	8:P8:7:THR:OG1	2.53	0.42
8:d8:30:ALA:O	8:d8:34:THR:HG22	2.20	0.42
7:g8:23:LEU:HD13	8:h8:43:THR:HG23	2.02	0.42
9:i8:31:LEU:HD12	10:09:1002:LYS:CE	2.49	0.42
7:j8:110:ILE:CD1	10:09:1117:TRP:CH2	2.72	0.42
8:o8:66:ILE:N	10:09:1128:ARG:HB3	2.34	0.42
7:r8:100:ASP:HB3	7:r8:102:THR:HG23	2.01	0.42
10:09:684:ASP:N	8:O9:129:GLN:HE22	2.14	0.42
13:09:1203:CYC:HBB1	8:M9:109:VAL:HG22	2.02	0.42
10:19:259:LEU:HB2	10:19:411:ALA:HB2	2.00	0.42
8:B9:84:ARG:HH11	13:B9:1001:CYC:CGA	2.30	0.42
8:L9:4:ASP:H	8:L9:7:THR:HB	1.84	0.42
8:l9:109:VAL:HG22	13:l9:1001:CYC:HBB1	2.02	0.42
8:v9:4:ASP:H	8:v9:7:THR:HB	1.85	0.42
5:AA:131:ILE:CB	13:AA:301:CYC:O2A	2.65	0.42
2:HA:156:ASP:HA	2:HA:159:ILE:HB	2.02	0.42
3:KA:40:ASP:OD2	3:KA:40:ASP:N	2.39	0.42
2:LA:88:ASP:OD2	2:LA:130:TYR:OH	2.34	0.42
2:OA:31:ARG:HH21	2:OA:31:ARG:HG3	1.84	0.42
3:TA:142:ILE:HD13	3:TA:142:ILE:HA	1.76	0.42
13:XA:202:CYC:CBD	13:XA:202:CYC:CHA	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:129:ILE:HD11	3:C1:85:ARG:HH12	1.85	0.42
2:B1:85:CYS:SG	13:B1:1001:CYC:CAC	3.06	0.42
3:C1:7:THR:HA	3:C1:10:VAL:HB	2.02	0.42
3:I1:44:ARG:NH2	3:I1:149:ILE:HD13	2.35	0.42
3:I1:137:ASP:OD2	3:I1:137:ASP:N	2.50	0.42
4:N1:73:VAL:HA	4:N1:76:VAL:HG12	2.02	0.42
2:B2:53:ILE:HG23	2:B2:89:VAL:HG12	2.01	0.42
2:B2:73:PRO:CG	3:G2:58:ARG:HH21	2.32	0.42
2:H2:13:ALA:HB2	2:H2:24:GLU:HG2	2.02	0.42
13:M2:201:CYC:CBD	13:M2:201:CYC:CHA	2.86	0.42
2:Q2:52:LEU:HD22	2:Q2:137:ILE:HG23	2.02	0.42
2:U2:81:GLY:O	2:U2:85:CYS:N	2.53	0.42
3:X2:58:ARG:HH21	2:Y2:73:PRO:HG2	1.81	0.42
3:X2:128:VAL:HA	13:X2:201:CYC:HMC1	2.02	0.42
3:Z2:118:TYR:HE1	3:Z2:128:VAL:HG21	1.84	0.42
6:A3:61:LYS:HG3	2:B3:117:ALA:CB	2.49	0.42
6:A3:68:LEU:HD23	6:A3:71:GLN:OE1	2.20	0.42
2:D3:81:GLY:O	2:D3:85:CYS:N	2.53	0.42
2:F3:52:LEU:HD22	2:F3:137:ILE:HG23	2.02	0.42
3:G3:43:ASN:O	3:G3:47:SER:OG	2.30	0.42
3:E4:64:GLN:HE22	3:E4:127:SER:HA	1.84	0.42
2:F4:91:HIS:HB2	13:F4:1001:CYC:HMB2	2.01	0.42
3:I4:44:ARG:NH2	3:I4:149:ILE:HD13	2.35	0.42
3:I4:68:ILE:HD13	13:J4:1001:CYC:CGA	2.50	0.42
3:M4:107:ASP:OD1	3:M4:167:ARG:NH1	2.52	0.42
4:N4:73:VAL:HA	4:N4:76:VAL:HG12	2.02	0.42
2:O4:85:CYS:CB	13:O4:1001:CYC:CBC	2.97	0.42
3:R4:75:TYR:CZ	13:S4:1001:CYC:CBB	3.02	0.42
3:T4:36:ASN:HD21	13:T4:201:CYC:HBA2	1.84	0.42
3:X4:107:ASP:OD1	3:X4:167:ARG:NH1	2.52	0.42
5:A5:11:SER:HB3	5:A5:122:ASN:HD21	1.84	0.42
2:B5:28:ALA:O	2:B5:32:TYR:HD2	2.03	0.42
3:C5:39:LEU:C	13:C5:201:CYC:HMB2	2.45	0.42
2:F5:6:ILE:HG13	2:F5:31:ARG:HD2	2.01	0.42
2:F5:28:ALA:O	2:F5:32:TYR:CD2	2.73	0.42
4:N5:244:ILE:HG23	4:N5:276:GLN:HB3	2.02	0.42
2:O5:16:GLN:CD	2:W5:3:LYS:HZ2	2.24	0.42
2:O5:156:ASP:HA	2:O5:159:ILE:HB	2.02	0.42
3:P5:86:ASP:OD1	13:P5:201:CYC:CHB	2.68	0.42
2:Q5:156:ASP:HA	2:Q5:159:ILE:HB	2.01	0.42
3:R5:156:GLN:CD	3:R5:156:GLN:C	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T5:144:ASN:HA	13:T5:202:CYC:CMC	2.50	0.42
13:Z5:201:CYC:O1A	13:Z5:201:CYC:C2A	2.65	0.42
3:G6:40:ASP:OD2	3:G6:149:ILE:CD1	2.47	0.42
3:M6:157:LEU:O	3:M6:161:VAL:CB	2.67	0.42
13:N6:302:CYC:C2B	3:T6:83:CYS:HB2	2.50	0.42
2:Q6:53:ILE:HG23	2:Q6:89:VAL:HG12	2.02	0.42
3:R6:118:TYR:HE1	3:R6:128:VAL:HG21	1.84	0.42
2:S6:32:TYR:CD2	2:S6:32:TYR:N	2.87	0.42
2:S6:85:CYS:SG	13:S6:1001:CYC:CBC	3.07	0.42
2:U6:94:ARG:HH12	3:Z6:75:TYR:HH	1.67	0.42
3:X6:41:VAL:HG23	13:X6:202:CYC:HMB2	2.00	0.42
2:D7:38:SER:OG	2:D7:100:LEU:O	2.36	0.42
2:J7:123:PHE:CD2	13:J7:1001:CYC:CAA	2.87	0.42
3:M7:118:TYR:HE1	3:M7:128:VAL:HG21	1.84	0.42
8:D8:109:VAL:HG11	13:D8:1001:CYC:HAB1	1.98	0.42
13:H8:1001:CYC:HAA1	8:M8:62:LEU:HD22	2.01	0.42
7:J8:100:ASP:HB3	7:J8:102:THR:HG23	2.01	0.42
7:O8:16:ARG:HB3	10:09:763:GLN:HG3	2.02	0.42
8:R8:30:ALA:O	8:R8:34:THR:HG22	2.20	0.42
8:T8:41:ALA:HA	8:T8:44:THR:HG22	2.01	0.42
7:Z8:140:LEU:HD23	7:Z8:140:LEU:HA	1.84	0.42
8:o8:65:ASP:HB2	10:09:1128:ARG:HG3	2.01	0.42
7:p8:107:ILE:HA	8:u8:75:THR:HG22	2.01	0.42
7:t8:82:LEU:CB	10:19:930:PHE:HB2	2.48	0.42
7:t8:100:ASP:HB3	7:t8:102:THR:HG23	2.01	0.42
10:19:307:SER:OG	10:19:308:ILE:N	2.53	0.42
10:19:533:ALA:H	10:19:534:LYS:HD3	1.85	0.42
10:19:745:ILE:HD13	10:19:770:GLU:HG2	2.02	0.42
13:19:1204:CYC:HBB1	8:a9:109:VAL:HG22	2.02	0.42
9:39:38:PHE:HZ	8:n9:88:TYR:HE2	1.67	0.42
7:E9:94:TYR:CE2	8:F9:14:ASP:HB2	2.54	0.42
8:F9:4:ASP:H	8:F9:7:THR:HB	1.84	0.42
8:M9:4:ASP:H	8:M9:7:THR:HB	1.85	0.42
8:O9:109:VAL:HG22	13:O9:1001:CYC:HBB1	2.02	0.42
11:g9:114:ARG:HH22	11:g9:166:GLU:HG2	1.85	0.42
8:j9:62:LEU:HD23	8:j9:62:LEU:HA	1.88	0.42
13:AA:302:CYC:CBC	3:EA:87:MET:HE1	2.48	0.42
2:BA:156:ASP:HA	2:BA:159:ILE:HB	2.02	0.42
2:DA:32:TYR:HD1	3:EA:32:VAL:HA	1.85	0.42
3:KA:44:ARG:HG2	3:KA:143:ALA:HA	2.01	0.42
3:MA:44:ARG:HG2	3:MA:143:ALA:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:16:GLN:CD	2:WA:3:LYS:HZ2	2.24	0.42
3:PA:44:ARG:HG2	3:PA:143:ALA:HA	2.01	0.42
1:A1:71:GLN:N	1:A1:71:GLN:OE1	2.53	0.42
3:C1:137:ASP:OD2	3:C1:137:ASP:N	2.50	0.42
4:N1:63:ARG:NE	13:V1:202:CYC:O2D	2.52	0.42
2:Q1:40:GLU:OE1	2:Q1:40:GLU:N	2.48	0.42
3:Z1:7:THR:HA	3:Z1:10:VAL:HB	2.01	0.42
5:A2:194:TRP:HE1	7:d9:66:VAL:HG11	1.84	0.42
5:A2:230:GLY:CA	7:X9:63:PRO:HB2	2.46	0.42
2:D2:93:LEU:HD23	2:D2:93:LEU:HA	1.90	0.42
3:E2:20:LEU:HD23	3:E2:20:LEU:HA	1.91	0.42
3:E2:43:ASN:O	3:E2:47:SER:OG	2.29	0.42
13:H2:1001:CYC:O2D	3:M2:58:ARG:NH1	2.53	0.42
2:L2:52:LEU:HD22	2:L2:137:ILE:HG23	2.02	0.42
2:L2:143:LEU:HD12	2:L2:143:LEU:HA	1.89	0.42
4:N2:178:SER:OG	13:P2:201:CYC:HAA1	2.19	0.42
4:N2:230:VAL:CG2	4:N2:265:ARG:NH1	2.81	0.42
2:S2:13:ALA:HB2	2:S2:24:GLU:HG2	2.02	0.42
3:X2:118:TYR:HE1	3:X2:128:VAL:HG21	1.84	0.42
6:A3:110:LEU:O	6:A3:114:LEU:HB2	2.20	0.42
2:B3:53:ILE:HG23	2:B3:89:VAL:HG12	2.02	0.42
3:C3:41:VAL:O	3:C3:45:ILE:HG12	2.20	0.42
3:G3:40:ASP:OD2	3:G3:149:ILE:CD1	2.47	0.42
13:H3:1001:CYC:O2D	3:M3:58:ARG:NH1	2.53	0.42
2:J3:81:GLY:O	2:J3:85:CYS:N	2.53	0.42
2:L3:32:TYR:HE2	3:M3:35:GLY:HA3	1.84	0.42
4:N3:244:ILE:H	4:N3:255:SER:HB2	1.85	0.42
1:A4:71:GLN:N	1:A4:71:GLN:OE1	2.53	0.42
1:A4:129:ILE:HD11	3:C4:85:ARG:HH12	1.85	0.42
1:A4:131:ILE:HD11	1:A4:139:PHE:CZ	2.55	0.42
3:E4:58:ARG:NH1	2:F4:73:PRO:HG3	2.34	0.42
2:Q4:146:GLN:CD	2:Q4:146:GLN:N	2.73	0.42
3:V4:137:ASP:OD2	3:V4:137:ASP:N	2.51	0.42
2:Y4:34:ARG:HA	2:Y4:34:ARG:HD2	1.84	0.42
5:A5:124:ASP:OD2	5:A5:124:ASP:N	2.52	0.42
2:B5:34:ARG:NH1	2:B5:150:GLU:CB	2.81	0.42
2:H5:88:ASP:OD2	2:H5:130:TYR:OH	2.34	0.42
2:L5:156:ASP:HA	2:L5:159:ILE:HB	2.02	0.42
5:A6:228:ASN:HB2	7:I9:59:PHE:HB2	2.00	0.42
2:F6:38:SER:OG	2:F6:100:LEU:O	2.36	0.42
2:L6:52:LEU:HD22	2:L6:137:ILE:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q6:34:ARG:NH2	2:Q6:150:GLU:HG2	2.35	0.42
2:U6:81:GLY:O	2:U6:85:CYS:N	2.53	0.42
3:Z6:91:LEU:HD23	3:Z6:91:LEU:HA	1.89	0.42
6:A7:65:GLN:OE1	6:A7:67:PHE:HE1	1.94	0.42
6:A7:80:ARG:HG3	6:A7:144:LEU:HD23	1.99	0.42
6:A7:81:ASP:O	4:N7:230:VAL:HG11	2.20	0.42
2:B7:52:LEU:HD22	2:B7:137:ILE:HG23	2.02	0.42
2:D7:53:ILE:HG23	2:D7:89:VAL:HG12	2.01	0.42
2:F7:53:ILE:HG23	2:F7:89:VAL:HG12	2.02	0.42
13:H7:1001:CYC:O2D	3:M7:58:ARG:NH1	2.53	0.42
2:J7:13:ALA:HB2	2:J7:24:GLU:HG2	2.02	0.42
8:I8:82:CYS:SG	13:I8:1001:CYC:HAC1	2.51	0.42
8:K8:41:ALA:HA	8:K8:44:THR:HG22	2.01	0.42
7:L8:100:ASP:HB3	7:L8:102:THR:HG23	2.01	0.42
7:V8:140:LEU:HD23	7:V8:140:LEU:HA	1.84	0.42
7:Z8:74:GLY:O	7:Z8:78:THR:OG1	2.33	0.42
7:Z8:100:ASP:HB3	7:Z8:102:THR:HG23	2.01	0.42
7:e8:142:SER:O	7:e8:146:ALA:N	2.50	0.42
9:i8:41:GLN:O	9:i8:45:GLN:HG3	2.20	0.42
8:k8:109:VAL:HG11	13:k8:1001:CYC:HAB1	1.98	0.42
8:q8:109:VAL:HG11	13:q8:1001:CYC:HAB1	1.98	0.42
10:09:868:PRO:HG2	10:09:871:ASN:HD22	1.85	0.42
10:19:364:ARG:CZ	10:19:368:GLN:HE21	2.33	0.42
10:19:478:SER:O	10:19:478:SER:OG	2.32	0.42
10:19:766:PHE:HA	10:19:769:TRP:CD1	2.53	0.42
13:19:1203:CYC:HBB1	8:Y9:109:VAL:HG22	2.02	0.42
9:29:23:LEU:HD21	13:U9:1001:CYC:O2A	2.20	0.42
7:G9:94:TYR:OH	8:H9:18:LYS:O	2.37	0.42
8:H9:4:ASP:H	8:H9:7:THR:HB	1.85	0.42
11:Q9:132:GLN:CD	11:Q9:135:LYS:HD3	2.45	0.42
8:U9:109:VAL:HG22	13:U9:1001:CYC:HBB1	2.02	0.42
8:h9:4:ASP:H	8:h9:7:THR:HB	1.84	0.42
8:p9:109:VAL:HG22	13:p9:1001:CYC:HBB1	2.02	0.42
8:t9:109:VAL:HG22	13:t9:1001:CYC:HBB1	2.02	0.42
7:u9:118:SER:O	7:u9:118:SER:OG	2.35	0.42
3:EA:95:THR:HA	3:EA:98:ILE:HD12	2.01	0.42
4:NA:84:LYS:HA	4:NA:88:TYR:CD2	2.55	0.42
4:NA:232:GLU:N	4:NA:232:GLU:CD	2.73	0.42
2:UA:88:ASP:OD2	2:UA:130:TYR:OH	2.34	0.42
3:VA:95:THR:HA	3:VA:98:ILE:HD12	2.01	0.42
1:A1:201:LEU:HD21	7:c8:51:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K1:64:GLN:NE2	3:T1:16:ARG:HH12	2.17	0.41
2:Q1:29:ARG:HD3	13:Q1:202:CYC:OB	2.19	0.41
3:R1:79:ARG:O	13:R1:1001:CYC:HMD1	2.20	0.41
3:T1:36:ASN:OD1	13:T1:201:CYC:C3A	2.68	0.41
2:W1:143:LEU:HD12	2:W1:143:LEU:HA	1.92	0.41
3:G2:44:ARG:NH2	3:G2:149:ILE:HG12	2.34	0.41
13:I2:202:CYC:CBD	13:I2:202:CYC:CHA	2.85	0.41
2:L2:119:ILE:CD1	13:L2:201:CYC:HMA3	2.50	0.41
4:N2:10:LEU:HD13	4:N2:12:THR:HG21	2.01	0.41
4:N2:57:SER:O	4:N2:60:SER:HB2	2.20	0.41
2:O2:129:TRP:CD2	13:O2:1001:CYC:HMC3	2.55	0.41
3:R2:41:VAL:HG23	13:U2:201:CYC:HAC1	2.01	0.41
2:B3:13:ALA:HB2	2:B3:24:GLU:HG2	2.02	0.41
2:B3:73:PRO:CG	3:G3:58:ARG:HH21	2.32	0.41
3:C3:93:TYR:CE2	3:C3:110:CYS:SG	2.96	0.41
2:D3:103:GLY:CA	2:H3:26:GLN:HE22	2.33	0.41
2:F3:19:PHE:CZ	3:G3:49:ALA:HB1	2.55	0.41
3:G3:66:GLN:HG2	2:FA:62:GLN:HB3	2.02	0.41
3:I3:85:ARG:NH2	4:N3:267:SER:CB	2.80	0.41
2:J3:143:LEU:HD12	2:J3:143:LEU:HA	1.89	0.41
3:K3:118:TYR:HE1	3:K3:128:VAL:HG21	1.84	0.41
4:N3:230:VAL:CG2	4:N3:265:ARG:NH1	2.81	0.41
1:A4:39:ASP:OD2	1:A4:43:LYS:NZ	2.38	0.41
2:F4:138:LYS:O	2:F4:141:HIS:HD2	1.95	0.41
3:I4:86:ASP:O	3:I4:89:ILE:N	2.50	0.41
3:R4:68:ILE:HG13	3:R4:69:ALA:N	2.35	0.41
5:A5:31:TYR:HE2	2:F5:12:ALA:HA	1.85	0.41
2:F5:108:LEU:HD23	2:F5:157:TYR:HD2	1.85	0.41
3:G5:95:THR:HA	3:G5:98:ILE:HD12	2.02	0.41
2:H5:108:LEU:HD23	2:H5:157:TYR:HD2	1.86	0.41
13:I5:202:CYC:HBD1	13:I5:202:CYC:CHA	2.28	0.41
3:M5:37:LYS:HB3	3:M5:157:LEU:HD23	2.01	0.41
13:M5:1002:CYC:HHA	13:M5:1002:CYC:CBA	2.26	0.41
2:O5:108:LEU:HD23	2:O5:157:TYR:HD2	1.85	0.41
3:V5:95:THR:HA	3:V5:98:ILE:HD12	2.02	0.41
3:C6:82:ALA:HB3	13:C6:201:CYC:C2D	2.50	0.41
3:C6:83:CYS:HB3	13:C6:201:CYC:CAC	2.42	0.41
2:D6:81:GLY:O	2:D6:85:CYS:N	2.53	0.41
13:E6:202:CYC:HBD1	13:E6:202:CYC:CHA	2.28	0.41
2:J6:52:LEU:HD22	2:J6:137:ILE:HG23	2.02	0.41
3:K6:43:ASN:O	3:K6:47:SER:OG	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N6:244:ILE:H	4:N6:255:SER:HB2	1.85	0.41
3:P6:91:LEU:HD23	3:P6:91:LEU:HA	1.89	0.41
2:Q6:31:ARG:NH1	2:Q6:103:GLY:N	2.68	0.41
2:W6:81:GLY:O	2:W6:85:CYS:N	2.53	0.41
6:A7:110:LEU:O	6:A7:114:LEU:HB2	2.20	0.41
3:E7:150:THR:HB	13:E7:202:CYC:HAD1	2.02	0.41
2:F7:38:SER:OG	2:F7:100:LEU:O	2.36	0.41
3:G7:40:ASP:OD2	3:G7:149:ILE:CD1	2.47	0.41
3:G7:118:TYR:HE1	3:G7:128:VAL:HG21	1.84	0.41
2:H7:52:LEU:HD22	2:H7:137:ILE:HG23	2.02	0.41
3:I7:154:CYS:O	3:I7:154:CYS:SG	2.79	0.41
2:L7:74:GLN:HE21	2:L7:75:PHE:HE2	1.68	0.41
4:N7:239:LEU:HD22	4:N7:283:VAL:HG22	1.93	0.41
4:N7:244:ILE:H	4:N7:255:SER:HB2	1.85	0.41
8:B8:30:ALA:O	8:B8:34:THR:HG22	2.20	0.41
13:P8:1001:CYC:CMA	10:09:771:SER:HB3	2.39	0.41
7:X8:140:LEU:HD23	7:X8:140:LEU:HA	1.84	0.41
8:m8:78:ARG:HH12	10:09:947:VAL:CG1	2.33	0.41
8:q8:108:ARG:HH22	10:19:1029:THR:CA	2.32	0.41
7:t8:142:SER:O	7:t8:146:ALA:N	2.50	0.41
8:u8:30:ALA:O	8:u8:34:THR:HG22	2.20	0.41
10:09:906:THR:H	10:09:909:LEU:HB3	1.84	0.41
10:19:260:PRO:HD3	11:g9:84:ARG:HD2	2.02	0.41
9:49:18:ARG:NH2	13:D9:1001:CYC:HBA1	2.30	0.41
9:49:53:LYS:HB2	9:49:53:LYS:HE3	1.79	0.41
8:F9:98:LEU:HD12	8:F9:98:LEU:HA	1.91	0.41
8:F9:109:VAL:HG22	13:F9:1001:CYC:HBB1	2.02	0.41
8:M9:98:LEU:HD12	8:M9:98:LEU:HA	1.91	0.41
11:Q9:3:ASP:OD1	11:Q9:4:ALA:N	2.53	0.41
7:R9:12:ASP:OD2	8:S9:108:ARG:NH2	2.53	0.41
12:V9:102:GLU:HA	12:V9:105:GLU:HB3	2.01	0.41
8:e9:109:VAL:HG22	13:e9:1001:CYC:HBB1	2.02	0.41
12:m9:6:GLN:HG3	12:m9:10:GLN:NE2	2.35	0.41
12:m9:113:ARG:HH21	12:m9:161:SER:HA	1.85	0.41
8:n9:4:ASP:H	8:n9:7:THR:HB	1.85	0.41
5:AA:124:ASP:OD2	5:AA:124:ASP:N	2.52	0.41
5:AA:131:ILE:HB	13:AA:301:CYC:O2A	2.17	0.41
3:GA:44:ARG:HG2	3:GA:143:ALA:HA	2.01	0.41
2:QA:34:ARG:NH1	2:QA:34:ARG:CA	2.73	0.41
3:RA:154:CYS:HG	13:RA:201:CYC:CAC	2.04	0.41
2:SA:108:LEU:HD23	2:SA:157:TYR:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ZA:133:GLN:H	3:ZA:133:GLN:HG3	1.64	0.41
3:E1:107:ASP:OD1	3:E1:167:ARG:NH1	2.52	0.41
2:F1:91:HIS:HB2	13:F1:1001:CYC:HMB2	2.01	0.41
3:G1:154:CYS:HB2	13:G1:201:CYC:HBC1	2.01	0.41
13:M1:202:CYC:HBD1	13:M1:202:CYC:CHA	2.28	0.41
5:A2:239:PHE:HE1	7:n8:60:GLN:NE2	2.14	0.41
3:C2:44:ARG:HH22	3:C2:146:PRO:HA	1.85	0.41
3:C2:91:LEU:HD23	3:C2:91:LEU:HA	1.89	0.41
2:D2:53:ILE:HG23	2:D2:89:VAL:HG12	2.01	0.41
3:E2:150:THR:HB	13:E2:202:CYC:HAD1	2.02	0.41
4:N2:40:TYR:OH	4:N2:54:ARG:O	2.31	0.41
4:N2:168:ILE:HG22	4:N2:172:TYR:HE1	1.85	0.41
4:N2:269:LYS:HD2	4:N2:269:LYS:HA	1.83	0.41
2:O2:34:ARG:CD	2:W2:26:GLN:HG2	2.49	0.41
2:O2:81:GLY:O	2:O2:85:CYS:N	2.53	0.41
2:W2:31:ARG:HH22	2:W2:35:ALA:HB1	1.85	0.41
2:H3:13:ALA:HB2	2:H3:24:GLU:HG2	2.02	0.41
2:J3:52:LEU:HD22	2:J3:137:ILE:HG23	2.02	0.41
3:M3:157:LEU:O	3:M3:161:VAL:CB	2.67	0.41
1:A4:199:LEU:CA	7:V8:79:ALA:HB2	2.49	0.41
3:G4:20:LEU:HA	3:G4:20:LEU:HD23	1.81	0.41
2:H4:40:GLU:OE1	2:H4:40:GLU:N	2.47	0.41
3:I4:36:ASN:HD21	13:I4:202:CYC:HAD1	1.78	0.41
3:R4:79:ARG:O	13:R4:1001:CYC:HMD1	2.20	0.41
3:T4:158:ILE:CD1	13:T4:201:CYC:HBC2	2.42	0.41
3:V4:39:LEU:HD13	13:V4:201:CYC:CMC	2.49	0.41
2:Y4:43:ARG:NH2	3:Z4:26:ASP:OD1	2.53	0.41
3:Z4:118:TYR:CD1	3:Z4:123:THR:HB	2.55	0.41
3:C5:44:ARG:HG2	3:C5:143:ALA:HA	2.01	0.41
2:H5:93:LEU:O	2:H5:97:THR:OG1	2.33	0.41
3:I5:30:ASN:O	3:I5:34:GLU:N	2.48	0.41
3:R5:77:ASN:OD1	13:S5:1001:CYC:C3B	2.68	0.41
3:R5:95:THR:HA	3:R5:98:ILE:HD12	2.01	0.41
2:S5:156:ASP:HA	2:S5:159:ILE:HB	2.02	0.41
3:V5:77:ASN:ND2	2:W5:119:ILE:HD12	2.35	0.41
2:Y5:108:LEU:HD23	2:Y5:157:TYR:HD2	1.85	0.41
2:F6:52:LEU:HD22	2:F6:137:ILE:HG23	2.02	0.41
2:H6:81:GLY:O	2:H6:85:CYS:N	2.53	0.41
2:J6:81:GLY:O	2:J6:85:CYS:N	2.53	0.41
13:M6:201:CYC:HMC1	13:M6:201:CYC:HBC2	2.00	0.41
4:N6:239:LEU:HD22	4:N6:283:VAL:HG22	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O6:81:GLY:O	2:O6:85:CYS:N	2.53	0.41
2:Q6:22:ASN:O	2:Q6:26:GLN:HG3	2.19	0.41
3:R6:54:THR:O	3:R6:58:ARG:HD3	2.20	0.41
3:R6:121:LEU:HD13	13:R6:1001:CYC:HHA	2.02	0.41
3:V6:58:ARG:HH21	2:W6:73:PRO:HG2	1.84	0.41
2:W6:52:LEU:HD22	2:W6:137:ILE:HG23	2.02	0.41
2:W6:53:ILE:HG23	2:W6:89:VAL:HG12	2.01	0.41
3:X6:58:ARG:NH1	2:Y6:73:PRO:HB3	2.36	0.41
3:X6:128:VAL:HA	13:X6:201:CYC:HMC1	2.02	0.41
2:B7:13:ALA:HB2	2:B7:24:GLU:HG2	2.02	0.41
2:H7:32:TYR:HE2	3:I7:35:GLY:C	2.29	0.41
3:K7:91:LEU:HD23	3:K7:91:LEU:HA	1.89	0.41
7:C8:106:GLU:CD	10:09:540:PHE:H	2.22	0.41
7:E8:119:LEU:HD23	7:E8:119:LEU:HA	1.89	0.41
7:Z8:142:SER:O	7:Z8:146:ALA:N	2.50	0.41
9:b8:41:GLN:O	9:b8:45:GLN:HG3	2.20	0.41
8:m8:30:ALA:O	8:m8:34:THR:HG22	2.20	0.41
8:q8:30:ALA:O	8:q8:34:THR:HG22	2.20	0.41
13:q8:1001:CYC:CGA	10:19:1059:ASN:HD22	2.32	0.41
7:r8:23:LEU:HD13	8:s8:43:THR:HG23	2.01	0.41
7:t8:74:GLY:O	7:t8:78:THR:OG1	2.33	0.41
10:19:430:PHE:CE1	8:h9:120:LEU:HD21	2.56	0.41
9:49:14:LEU:HD23	8:D9:77:ARG:CZ	2.50	0.41
8:S9:79:TYR:CD1	7:T9:115:MET:HG3	2.55	0.41
8:S9:109:VAL:HG22	13:S9:1001:CYC:HBB1	2.02	0.41
8:Y9:113:LEU:HA	8:Y9:113:LEU:HD12	1.84	0.41
8:c9:4:ASP:H	8:c9:7:THR:HB	1.85	0.41
12:m9:92:ILE:HD13	12:m9:92:ILE:HA	1.92	0.41
2:DA:156:ASP:HA	2:DA:159:ILE:HB	2.02	0.41
3:GA:95:THR:HA	3:GA:98:ILE:HD12	2.01	0.41
3:MA:114:LEU:CD1	13:MA:1002:CYC:CMB	2.98	0.41
3:MA:146:PRO:C	3:MA:147:ASN:OD1	2.62	0.41
3:MA:154:CYS:CB	13:MA:1003:CYC:CAB	2.98	0.41
3:RA:143:ALA:O	13:RA:201:CYC:HBC3	2.20	0.41
2:YA:31:ARG:CG	2:YA:31:ARG:NH2	2.82	0.41
1:A1:131:ILE:HD11	1:A1:139:PHE:CZ	2.55	0.41
1:A1:199:LEU:HD11	7:c8:76:GLU:HG3	2.02	0.41
2:B1:94:ARG:HG3	3:C1:19:PHE:CZ	2.55	0.41
3:I1:153:ASP:OD1	3:I1:155:SER:CB	2.68	0.41
2:J1:34:ARG:HA	2:J1:34:ARG:HD2	1.84	0.41
2:L1:119:ILE:CD1	13:L1:201:CYC:HMA1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L1:149:ASN:O	2:L1:153:THR:HG23	2.21	0.41
13:P1:202:CYC:CBD	13:P1:202:CYC:CHA	2.86	0.41
3:R1:124:PRO:HG2	3:R1:127:SER:HB3	2.02	0.41
3:X1:83:CYS:CA	13:X1:201:CYC:HAC1	2.50	0.41
5:A2:38:VAL:HG13	5:A2:39:SER:H	1.85	0.41
3:G2:85:ARG:O	3:G2:88:GLU:HG3	2.21	0.41
2:H2:32:TYR:HE2	3:I2:35:GLY:C	2.29	0.41
3:T2:44:ARG:HH21	3:T2:149:ILE:HG13	1.76	0.41
3:C3:91:LEU:HD23	3:C3:91:LEU:HA	1.89	0.41
2:D3:52:LEU:HD22	2:D3:137:ILE:HG23	2.02	0.41
13:G3:202:CYC:CBD	13:G3:202:CYC:CHA	2.86	0.41
2:H3:91:HIS:CG	13:H3:1001:CYC:HBB3	2.55	0.41
3:I3:154:CYS:O	3:I3:154:CYS:SG	2.79	0.41
2:L3:81:GLY:O	2:L3:85:CYS:N	2.53	0.41
2:B4:23:THR:HG22	2:J4:5:PRO:HD3	2.02	0.41
3:C4:77:ASN:OD1	13:D4:1001:CYC:NB	2.54	0.41
3:E4:151:LYS:C	13:E4:202:CYC:HMD2	2.45	0.41
2:J4:40:GLU:OE1	2:J4:40:GLU:N	2.47	0.41
2:L4:141:HIS:CE1	2:L4:143:LEU:O	2.72	0.41
4:N4:24:ARG:HD3	4:N4:24:ARG:HA	1.83	0.41
2:S4:60:VAL:HG11	13:S4:1001:CYC:HMC1	2.01	0.41
3:Z4:7:THR:HA	3:Z4:10:VAL:HB	2.01	0.41
5:A5:166:ARG:NH2	5:A5:171:PRO:N	2.67	0.41
5:A5:174:LEU:C	5:A5:174:LEU:CD1	2.85	0.41
2:B5:32:TYR:CD1	3:C5:35:GLY:HA3	2.53	0.41
2:D5:108:LEU:HD23	2:D5:157:TYR:HD2	1.85	0.41
2:F5:156:ASP:HA	2:F5:159:ILE:HB	2.01	0.41
2:L5:34:ARG:CZ	2:L5:150:GLU:CD	2.93	0.41
4:N5:235:ARG:O	4:N5:263:TYR:HB2	2.21	0.41
3:R5:143:ALA:O	13:R5:201:CYC:HBC3	2.20	0.41
2:S5:93:LEU:O	2:S5:97:THR:OG1	2.33	0.41
2:Y5:156:ASP:HA	2:Y5:159:ILE:HB	2.02	0.41
2:B6:13:ALA:HB2	2:B6:24:GLU:HG2	2.02	0.41
2:B6:81:GLY:O	2:B6:85:CYS:N	2.53	0.41
2:D6:103:GLY:CA	2:H6:26:GLN:HE22	2.33	0.41
2:H6:31:ARG:CD	2:H6:31:ARG:C	2.93	0.41
2:H6:91:HIS:CG	13:H6:1001:CYC:HBB3	2.55	0.41
3:K6:60:LEU:CD2	13:K6:201:CYC:CBB	2.93	0.41
3:K6:154:CYS:O	3:K6:154:CYS:SG	2.79	0.41
2:L6:81:GLY:O	2:L6:85:CYS:N	2.53	0.41
13:M6:201:CYC:CBD	13:M6:201:CYC:CHA	2.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N6:182:GLN:HB2	4:N6:189:ARG:HH22	1.85	0.41
2:Q6:72:GLY:HA2	2:Q6:73:PRO:HD3	1.79	0.41
3:R6:41:VAL:HG22	13:U6:201:CYC:HBC3	2.02	0.41
2:U6:88:ASP:OD2	13:U6:202:CYC:NA	2.53	0.41
3:V6:145:ASP:OD1	3:V6:145:ASP:N	2.53	0.41
3:V6:150:THR:OG1	13:V6:201:CYC:CBA	2.59	0.41
2:Y6:81:GLY:O	2:Y6:85:CYS:N	2.53	0.41
3:G7:85:ARG:O	3:G7:88:GLU:HG3	2.21	0.41
2:H7:53:ILE:HG23	2:H7:89:VAL:HG12	2.01	0.41
13:I7:201:CYC:CMA	4:N7:266:LEU:HD23	2.48	0.41
2:J7:25:LEU:HD11	3:K7:42:VAL:HG12	2.03	0.41
3:M7:114:LEU:HD12	3:M7:114:LEU:HA	1.91	0.41
7:A8:23:LEU:HD13	8:B8:43:THR:HG23	2.01	0.41
9:G8:4:LEU:HD23	9:G8:33:PRO:HA	2.03	0.41
8:M8:82:CYS:SG	13:M8:1001:CYC:HAC1	2.51	0.41
8:R8:41:ALA:HA	8:R8:44:THR:HG22	2.01	0.41
8:W8:109:VAL:CG1	13:W8:1001:CYC:CAB	2.73	0.41
7:l8:50:LEU:HD13	7:l8:140:LEU:HD12	2.03	0.41
8:o8:11:ASN:O	8:o8:15:VAL:HG23	2.20	0.41
10:19:550:LYS:HZ3	7:b9:15:ALA:HB3	1.85	0.41
9:29:66:GLY:HA3	8:S9:3:GLN:HG2	2.01	0.41
7:C9:56:ASP:O	7:C9:60:GLN:HB2	2.19	0.41
8:D9:69:PRO:HB2	8:F9:15:VAL:O	2.20	0.41
8:J9:109:VAL:HG22	13:J9:1001:CYC:HBB1	2.02	0.41
8:S9:113:LEU:HA	8:S9:113:LEU:HD12	1.84	0.41
8:x9:4:ASP:H	8:x9:7:THR:HB	1.85	0.41
5:AA:153:LYS:HE3	5:AA:153:LYS:HB3	1.94	0.41
2:BA:93:LEU:O	2:BA:97:THR:OG1	2.33	0.41
3:CA:156:GLN:CD	3:CA:156:GLN:C	2.87	0.41
3:IA:92:ARG:H	3:IA:92:ARG:HG2	1.65	0.41
3:IA:95:THR:HA	3:IA:98:ILE:HD12	2.02	0.41
2:OA:29:ARG:HB2	3:PA:39:LEU:HD21	2.01	0.41
3:PA:86:ASP:OD1	13:PA:201:CYC:CHB	2.68	0.41
3:VA:39:LEU:HD23	13:VA:202:CYC:C1C	2.50	0.41
3:VA:154:CYS:SG	13:VA:202:CYC:HMB3	2.46	0.41
2:YA:88:ASP:OD2	2:YA:130:TYR:OH	2.34	0.41
1:A1:207:ILE:HG21	7:c8:66:VAL:HG21	1.93	0.41
2:J1:43:ARG:O	2:J1:47:SER:OG	2.33	0.41
2:L1:93:LEU:HD13	2:L1:93:LEU:HA	1.95	0.41
2:U1:141:HIS:CE1	2:U1:143:LEU:HB3	2.55	0.41
5:A2:204:ARG:HD2	7:g8:140:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A2:223:ALA:CB	7:X9:78:THR:CG2	2.74	0.41
2:B2:13:ALA:HB2	2:B2:24:GLU:HG2	2.02	0.41
2:B2:52:LEU:HD22	2:B2:137:ILE:HG23	2.02	0.41
2:B2:67:THR:HA	2:B2:75:PHE:HD1	1.85	0.41
3:I2:58:ARG:CZ	2:J2:73:PRO:HB3	2.48	0.41
4:N2:225:ASN:ND2	4:N2:236:VAL:HG11	2.35	0.41
3:R2:41:VAL:HG22	13:U2:201:CYC:HBC3	2.02	0.41
2:S2:119:ILE:CD1	13:S2:1001:CYC:HMA3	2.49	0.41
2:U2:52:LEU:HD22	2:U2:137:ILE:HG23	2.02	0.41
13:W2:203:CYC:HBB1	3:X2:144:ASN:CG	2.43	0.41
2:Y2:81:GLY:O	2:Y2:85:CYS:N	2.53	0.41
3:Z2:149:ILE:HG22	3:Z2:150:THR:O	2.20	0.41
6:A3:106:VAL:HG23	6:A3:131:ILE:CD1	2.26	0.41
3:C3:44:ARG:HH22	3:C3:146:PRO:HA	1.85	0.41
2:F3:34:ARG:HE	2:F3:34:ARG:CA	2.29	0.41
3:G4:154:CYS:CB	13:G4:201:CYC:HBC1	2.48	0.41
3:R4:80:MET:O	3:R4:80:MET:SD	2.79	0.41
13:Z4:201:CYC:CBD	13:Z4:201:CYC:CHA	2.86	0.41
3:G5:44:ARG:HG2	3:G5:143:ALA:HA	2.01	0.41
3:K5:133:GLN:H	3:K5:133:GLN:HG3	1.64	0.41
3:M5:95:THR:HA	3:M5:98:ILE:HD12	2.02	0.41
3:M5:114:LEU:CD1	13:M5:1002:CYC:CMB	2.98	0.41
2:U5:6:ILE:HG13	2:U5:31:ARG:HD3	2.01	0.41
2:U5:108:LEU:HD23	2:U5:157:TYR:HD2	1.85	0.41
3:X5:44:ARG:HG2	3:X5:143:ALA:HA	2.01	0.41
2:Y5:31:ARG:CG	2:Y5:31:ARG:NH2	2.82	0.41
5:A6:54:GLN:NE2	5:A6:162:TYR:HA	2.34	0.41
3:C6:83:CYS:HB3	13:C6:201:CYC:C4C	2.50	0.41
3:E6:44:ARG:HH22	3:E6:149:ILE:HD12	1.66	0.41
4:N6:178:SER:OG	13:P6:201:CYC:HAA1	2.19	0.41
2:O6:34:ARG:CZ	13:X6:202:CYC:CBC	2.97	0.41
2:S6:13:ALA:HB2	2:S6:24:GLU:HG2	2.02	0.41
2:Y6:38:SER:OG	2:Y6:100:LEU:O	2.36	0.41
3:Z6:85:ARG:HG3	3:Z6:86:ASP:N	2.32	0.41
6:A7:13:GLN:HB3	6:A7:119:TYR:CZ	2.55	0.41
2:F7:81:GLY:O	2:F7:85:CYS:N	2.53	0.41
3:G7:79:ARG:O	13:G7:201:CYC:HMD1	2.21	0.41
2:J7:31:ARG:NH2	2:J7:35:ALA:HB2	2.36	0.41
7:H8:100:ASP:HB3	7:H8:102:THR:HG23	2.01	0.41
7:V8:14:GLU:OE1	7:V8:16:ARG:NE	2.41	0.41
8:Y8:30:ALA:O	8:Y8:34:THR:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:q8:4:ASP:N	8:q8:7:THR:OG1	2.53	0.41
8:q8:41:ALA:HA	8:q8:44:THR:HG22	2.01	0.41
10:09:272:LYS:HE3	9:29:22:GLU:OE2	2.18	0.41
10:09:282:THR:H	10:09:282:THR:HG23	1.54	0.41
10:09:466:ALA:HB2	10:09:598:TYR:CE1	2.56	0.41
10:19:708:GLN:O	10:19:711:ILE:HG22	2.21	0.41
9:49:64:ASN:HD21	8:F9:78:ARG:NH2	2.18	0.41
8:L9:109:VAL:HG22	13:L9:1001:CYC:HBB1	2.02	0.41
7:q9:47:ARG:HD3	8:r9:19:TYR:OH	2.20	0.41
8:r9:62:LEU:HD23	8:r9:62:LEU:HA	1.88	0.41
8:r9:109:VAL:HG22	13:r9:1001:CYC:HBB1	2.02	0.41
7:w9:66:VAL:CG1	5:AA:230:GLY:CA	2.93	0.41
7:y9:118:SER:O	7:y9:118:SER:OG	2.35	0.41
5:AA:92:GLU:OE2	2:JA:16:GLN:NE2	2.53	0.41
2:FA:108:LEU:HD23	2:FA:157:TYR:HD2	1.85	0.41
3:KA:92:ARG:H	3:KA:92:ARG:HG2	1.65	0.41
2:LA:108:LEU:HD23	2:LA:157:TYR:HD2	1.85	0.41
2:YA:156:ASP:HA	2:YA:159:ILE:HB	2.02	0.41
3:I1:123:THR:HG22	3:I1:124:PRO:CD	2.47	0.41
3:X1:83:CYS:SG	13:X1:201:CYC:HMD3	2.61	0.41
3:Z1:118:TYR:CD1	3:Z1:123:THR:HB	2.55	0.41
2:F2:74:GLN:CD	2:F2:74:GLN:N	2.73	0.41
3:G2:20:LEU:HD23	3:G2:20:LEU:HA	1.91	0.41
2:H2:93:LEU:HD23	2:H2:93:LEU:HA	1.90	0.41
2:J2:13:ALA:HB2	2:J2:24:GLU:HG2	2.02	0.41
3:K2:43:ASN:O	3:K2:47:SER:OG	2.30	0.41
4:N2:182:GLN:HB2	4:N2:189:ARG:HH22	1.85	0.41
2:O2:31:ARG:HH11	2:O2:102:ALA:C	2.28	0.41
2:S2:143:LEU:HD12	2:S2:143:LEU:HA	1.89	0.41
2:U2:74:GLN:OE1	2:U2:124:ASP:HB3	2.21	0.41
2:W2:81:GLY:O	2:W2:85:CYS:N	2.53	0.41
2:F3:81:GLY:O	2:F3:85:CYS:N	2.53	0.41
3:G3:38:ARG:HH12	3:G3:101:GLY:HA2	1.86	0.41
13:K3:202:CYC:CBD	13:K3:202:CYC:CHA	2.86	0.41
3:M3:38:ARG:NH1	3:M3:101:GLY:HA3	2.30	0.41
4:N3:231:GLY:O	4:N3:232:GLU:C	2.60	0.41
4:N3:242:THR:OG1	4:N3:243:GLY:N	2.52	0.41
2:B4:94:ARG:HG3	3:C4:19:PHE:CZ	2.55	0.41
3:I4:153:ASP:OD1	3:I4:155:SER:CB	2.68	0.41
4:N4:168:ILE:HD12	4:N4:168:ILE:HA	1.97	0.41
3:P4:107:ASP:OD1	3:P4:167:ARG:NH1	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X4:89:ILE:HG23	13:X4:201:CYC:HBB3	1.90	0.41
13:X4:201:CYC:HHA	13:X4:201:CYC:HAD2	1.91	0.41
5:A5:130:SER:OG	13:A5:301:CYC:CMA	2.69	0.41
2:B5:108:LEU:HD23	2:B5:157:TYR:HD2	1.86	0.41
3:E5:30:ASN:O	3:E5:34:GLU:N	2.47	0.41
2:H5:41:ALA:HB1	2:H5:151:ALA:HB2	2.03	0.41
2:J5:20:LEU:HD23	2:J5:20:LEU:HA	1.95	0.41
2:J5:28:ALA:O	2:J5:32:TYR:HD2	2.04	0.41
2:J5:41:ALA:HB1	2:J5:151:ALA:HB2	2.03	0.41
3:P5:154:CYS:SG	13:P5:202:CYC:HMB3	2.52	0.41
2:Q5:41:ALA:HB1	2:Q5:151:ALA:HB2	2.03	0.41
2:S5:41:ALA:HB1	2:S5:151:ALA:HB2	2.03	0.41
2:S5:93:LEU:HD23	2:S5:93:LEU:HA	1.90	0.41
5:A6:38:VAL:HG13	5:A6:39:SER:H	1.85	0.41
5:A6:110:ILE:HD12	5:A6:110:ILE:HA	1.88	0.41
3:C6:41:VAL:O	3:C6:45:ILE:HG12	2.20	0.41
2:D6:53:ILE:HG23	2:D6:89:VAL:HG12	2.01	0.41
3:G6:79:ARG:O	13:G6:202:CYC:HMD1	2.21	0.41
2:H6:52:LEU:HD22	2:H6:137:ILE:HG23	2.02	0.41
2:L6:13:ALA:HB2	2:L6:24:GLU:HG2	2.02	0.41
2:L6:74:GLN:HE21	2:L6:75:PHE:HE2	1.68	0.41
4:N6:225:ASN:ND2	4:N6:236:VAL:HG11	2.35	0.41
3:P6:60:LEU:CD1	3:P6:87:MET:HE1	2.51	0.41
3:R6:43:ASN:O	3:R6:47:SER:OG	2.30	0.41
2:Y6:52:LEU:HD22	2:Y6:137:ILE:HG23	2.02	0.41
3:E7:145:ASP:HA	3:E7:146:PRO:HD3	1.94	0.41
8:F8:30:ALA:O	8:F8:34:THR:HG22	2.20	0.41
8:I8:41:ALA:HA	8:I8:44:THR:HG22	2.01	0.41
7:J8:158:GLY:HA2	8:c9:47:ALA:O	2.21	0.41
7:L8:50:LEU:HD13	7:L8:140:LEU:HD12	2.03	0.41
9:N8:10:LEU:HD12	9:N8:27:TYR:HD2	1.84	0.41
8:W8:78:ARG:HE	13:W8:1001:CYC:CGD	2.23	0.41
7:X8:123:ILE:HD13	7:X8:123:ILE:HA	1.92	0.41
8:Y8:41:ALA:HA	8:Y8:44:THR:HG22	2.01	0.41
9:b8:10:LEU:HD12	9:b8:27:TYR:HD2	1.84	0.41
7:e8:123:ILE:HD13	7:e8:123:ILE:HA	1.92	0.41
7:g8:119:LEU:HD23	7:g8:119:LEU:HA	1.90	0.41
9:i8:4:LEU:HD23	9:i8:33:PRO:HA	2.03	0.41
8:o8:4:ASP:N	8:o8:7:THR:OG1	2.53	0.41
10:09:472:THR:HG23	8:M9:115:GLU:OE2	2.20	0.41
8:J9:78:ARG:NH1	11:Q9:166:GLU:HG2	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:U9:88:TYR:HD1	8:U9:88:TYR:HA	1.75	0.41
7:d9:10:ASN:ND2	7:i9:10:ASN:HD21	2.18	0.41
8:l9:4:ASP:H	8:l9:7:THR:HB	1.85	0.41
7:o9:18:LEU:HD13	8:p9:98:LEU:HD23	2.03	0.41
7:o9:30:VAL:HG13	8:p9:32:PHE:O	2.20	0.41
8:v9:109:VAL:HG22	13:v9:1001:CYC:HBB1	2.02	0.41
13:AA:303:CYC:O1A	13:AA:303:CYC:C2A	2.65	0.41
3:EA:149:ILE:HD12	3:EA:149:ILE:H	1.81	0.41
2:JA:28:ALA:O	2:JA:32:TYR:HD2	2.04	0.41
2:LA:156:ASP:HA	2:LA:159:ILE:HB	2.02	0.41
4:NA:67:LEU:HD23	4:NA:67:LEU:HA	1.79	0.41
3:RA:44:ARG:HG2	3:RA:143:ALA:HA	2.01	0.41
3:RA:77:ASN:OD1	13:SA:1001:CYC:C3B	2.68	0.41
3:TA:144:ASN:HA	13:TA:202:CYC:CMC	2.50	0.41
1:A1:65:GLN:O	1:A1:69:GLU:HG3	2.21	0.41
2:B1:23:THR:HG22	2:J1:5:PRO:HD3	2.02	0.41
3:R1:80:MET:O	3:R1:80:MET:SD	2.79	0.41
3:R1:107:ASP:OD1	3:R1:167:ARG:NH1	2.52	0.41
3:T1:107:ASP:OD1	3:T1:167:ARG:NH1	2.52	0.41
5:A2:83:ASP:OD1	4:N2:265:ARG:NH1	2.54	0.41
5:A2:195:ARG:HE	3:G2:124:PRO:HB3	1.86	0.41
3:C2:43:ASN:O	3:C2:47:SER:OG	2.30	0.41
2:D2:103:GLY:CA	2:H2:26:GLN:HE22	2.33	0.41
2:H2:31:ARG:CZ	2:H2:103:GLY:HA3	2.50	0.41
3:P2:118:TYR:HE1	3:P2:128:VAL:HG21	1.84	0.41
3:R2:41:VAL:HG22	13:U2:201:CYC:CBC	2.50	0.41
2:S2:32:TYR:CD2	2:S2:32:TYR:N	2.88	0.41
2:U2:13:ALA:HB2	2:U2:24:GLU:HG2	2.02	0.41
3:X2:30:ASN:O	3:X2:34:GLU:CB	2.69	0.41
3:X2:128:VAL:CG2	13:X2:201:CYC:HMC3	2.50	0.41
3:X2:138:ALA:O	3:X2:142:ILE:HG13	2.21	0.41
2:B3:81:GLY:O	2:B3:85:CYS:N	2.53	0.41
2:H3:52:LEU:HD22	2:H3:137:ILE:HG23	2.02	0.41
3:K3:38:ARG:HH22	3:K3:101:GLY:HA2	1.86	0.41
2:L3:119:ILE:CD1	13:L3:201:CYC:HMA3	2.50	0.41
1:A4:129:ILE:O	1:A4:129:ILE:HD12	2.20	0.41
3:C4:107:ASP:OD1	3:C4:167:ARG:NH1	2.52	0.41
13:I4:202:CYC:HBD1	13:I4:202:CYC:CHA	2.28	0.41
4:N4:168:ILE:HD12	4:N4:171:LEU:HD12	2.02	0.41
3:T4:89:ILE:HG21	13:T4:202:CYC:CMC	2.47	0.41
2:U4:40:GLU:OE1	2:U4:40:GLU:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X4:36:ASN:ND2	13:X4:202:CYC:HAD1	2.35	0.41
5:A5:174:LEU:HD12	5:A5:174:LEU:O	2.20	0.41
3:G5:157:LEU:HD12	3:G5:157:LEU:O	2.21	0.41
2:J5:108:LEU:HD23	2:J5:157:TYR:HD2	1.86	0.41
3:K5:142:ILE:HD13	3:K5:142:ILE:HA	1.76	0.41
3:M5:113:GLY:HA3	4:N5:254:ARG:HH12	1.86	0.41
2:O5:26:GLN:HG2	2:W5:34:ARG:CG	2.50	0.41
2:O5:29:ARG:HB2	3:P5:39:LEU:HD21	2.01	0.41
3:P5:154:CYS:CB	13:P5:202:CYC:C3B	2.98	0.41
2:Q5:61:TYR:OH	2:Q5:85:CYS:SG	2.68	0.41
3:T5:95:THR:HA	3:T5:98:ILE:HD12	2.01	0.41
3:T5:154:CYS:SG	13:T5:202:CYC:C4C	3.05	0.41
3:X5:39:LEU:HD21	13:X5:202:CYC:HMC3	1.90	0.41
13:X5:201:CYC:HHA	13:X5:201:CYC:HAD2	1.91	0.41
3:C6:77:ASN:HB2	2:D6:111:TYR:O	2.21	0.41
2:D6:31:ARG:O	2:D6:35:ALA:HB2	2.21	0.41
3:G6:114:LEU:HD12	3:G6:114:LEU:HA	1.91	0.41
2:H6:32:TYR:HE2	3:I6:35:GLY:C	2.29	0.41
3:I6:89:ILE:HG21	13:I6:201:CYC:HBB3	2.03	0.41
3:M6:87:MET:HE2	13:N6:301:CYC:CBC	2.18	0.41
2:S6:52:LEU:HD22	2:S6:137:ILE:HG23	2.02	0.41
13:X6:201:CYC:HHA	13:X6:201:CYC:HAD2	1.91	0.41
3:Z6:149:ILE:HG22	3:Z6:150:THR:O	2.20	0.41
2:B7:67:THR:HA	2:B7:75:PHE:HD1	1.85	0.41
2:D7:31:ARG:O	2:D7:35:ALA:HB2	2.21	0.41
2:F7:94:ARG:NH2	3:G7:14:ASP:OD2	2.46	0.41
2:F7:119:ILE:HD12	13:F7:1001:CYC:CMA	2.46	0.41
2:J7:81:GLY:O	2:J7:85:CYS:N	2.53	0.41
7:C8:140:LEU:HD23	7:C8:140:LEU:HA	1.84	0.41
7:H8:142:SER:O	7:H8:146:ALA:N	2.50	0.41
8:I8:83:ILE:HD13	7:J8:118:SER:CB	2.51	0.41
8:I8:109:VAL:HG11	13:I8:1001:CYC:HAB1	1.98	0.41
7:J8:125:ALA:HB3	13:J8:1001:CYC:CMC	2.37	0.41
7:L8:74:GLY:O	7:L8:78:THR:OG1	2.33	0.41
7:L8:142:SER:O	7:L8:146:ALA:N	2.50	0.41
7:O8:74:GLY:O	7:O8:78:THR:OG1	2.33	0.41
7:O8:140:LEU:HA	7:O8:140:LEU:HD23	1.84	0.41
8:P8:30:ALA:O	8:P8:34:THR:HG22	2.20	0.41
8:k8:120:LEU:CD2	10:09:1052:GLN:NE2	2.83	0.41
8:m8:68:ARG:NH1	10:09:937:TYR:CZ	2.88	0.41
7:p8:50:LEU:HD13	7:p8:140:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:t8:50:LEU:HD13	7:t8:140:LEU:HD12	2.03	0.41
10:09:677:ARG:HB2	8:H9:106:ASP:OD1	2.20	0.41
10:09:699:LEU:HB3	7:y9:83:ARG:HD3	2.01	0.41
10:19:759:PRO:HG2	8:t9:84:ARG:NH2	2.36	0.41
9:29:53:LYS:HB2	9:29:53:LYS:HE3	1.79	0.41
9:39:22:GLU:HA	9:39:22:GLU:OE1	2.20	0.41
13:39:1001:CYC:HBB1	8:n9:109:VAL:HG22	2.02	0.41
8:S9:4:ASP:H	8:S9:7:THR:HB	1.85	0.41
5:AA:130:SER:OG	13:AA:301:CYC:CMA	2.69	0.41
13:AA:303:CYC:CAB	3:GA:110:CYS:HA	2.51	0.41
2:BA:29:ARG:CD	13:CA:201:CYC:OB	2.65	0.41
2:BA:34:ARG:NH1	2:BA:150:GLU:CB	2.81	0.41
2:DA:108:LEU:HD23	2:DA:157:TYR:HD2	1.85	0.41
3:MA:39:LEU:HD23	13:MA:1003:CYC:C1C	2.51	0.41
3:MA:157:LEU:HD12	3:MA:157:LEU:O	2.21	0.41
4:NA:61:LEU:HD12	4:NA:61:LEU:HA	1.82	0.41
2:OA:41:ALA:HB1	2:OA:151:ALA:HB2	2.03	0.41
3:PA:40:ASP:OD2	3:PA:40:ASP:N	2.39	0.41
2:SA:25:LEU:HB3	13:TA:202:CYC:HBB1	2.03	0.41
2:SA:41:ALA:HB1	2:SA:151:ALA:HB2	2.03	0.41
3:VA:77:ASN:ND2	2:WA:119:ILE:HD12	2.35	0.41
13:VA:201:CYC:HAD2	13:VA:201:CYC:HHA	1.90	0.41
3:XA:157:LEU:HD12	3:XA:157:LEU:O	2.21	0.41
1:A1:129:ILE:O	1:A1:129:ILE:HD12	2.20	0.41
1:A1:195:ILE:O	7:c8:79:ALA:CB	2.68	0.41
3:E1:151:LYS:C	13:E1:202:CYC:HMD2	2.45	0.41
3:M1:76:THR:CG2	3:M1:79:ARG:CG	2.89	0.41
3:T1:79:ARG:HG3	3:T1:79:ARG:H	1.64	0.41
3:T1:121:LEU:HD22	13:T1:202:CYC:O2A	2.21	0.41
2:U1:40:GLU:OE1	2:U1:40:GLU:N	2.48	0.41
5:A2:3:LEU:HD23	5:A2:3:LEU:HA	1.85	0.41
5:A2:241:ILE:HD12	7:J8:82:LEU:HD11	2.03	0.41
2:F2:81:GLY:O	2:F2:85:CYS:N	2.53	0.41
2:J2:119:ILE:HD12	13:J2:1001:CYC:CMA	2.40	0.41
2:Q2:31:ARG:NH1	2:Q2:103:GLY:N	2.68	0.41
2:S2:22:ASN:OD1	2:Y2:34:ARG:NH1	2.54	0.41
2:U2:81:GLY:HA2	13:U2:202:CYC:HMD1	2.03	0.41
2:F3:53:ILE:HG23	2:F3:89:VAL:HG12	2.02	0.41
1:A4:46:ILE:HA	1:A4:46:ILE:HD12	1.85	0.41
1:A4:71:GLN:HG2	1:A4:77:ILE:HD12	2.02	0.41
3:K4:77:ASN:C	3:K4:77:ASN:HD22	2.26	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y4:119:ILE:HD11	13:Y4:201:CYC:HMA1	2.01	0.41
13:A5:303:CYC:CAB	3:G5:110:CYS:HA	2.51	0.41
2:D5:93:LEU:HD23	2:D5:93:LEU:HA	1.90	0.41
3:G5:37:LYS:HB3	3:G5:157:LEU:HD23	2.02	0.41
3:G5:133:GLN:H	3:G5:133:GLN:HG3	1.64	0.41
3:M5:39:LEU:HD23	13:M5:1003:CYC:C1C	2.51	0.41
2:Q5:34:ARG:NH1	2:Q5:34:ARG:CA	2.73	0.41
2:Q5:108:LEU:HD23	2:Q5:157:TYR:HD2	1.86	0.41
3:R5:44:ARG:HG2	3:R5:143:ALA:HA	2.01	0.41
2:S5:25:LEU:HB3	13:T5:202:CYC:HBB1	2.03	0.41
3:T5:152:GLY:N	13:T5:202:CYC:CMD	2.84	0.41
2:Y5:74:GLN:H	2:Y5:74:GLN:HG3	1.75	0.41
2:B6:53:ILE:HG23	2:B6:89:VAL:HG12	2.01	0.41
3:C6:20:LEU:HD23	3:C6:20:LEU:HA	1.91	0.41
3:E6:118:TYR:HE1	3:E6:128:VAL:HG21	1.84	0.41
2:F6:53:ILE:HG23	2:F6:89:VAL:HG12	2.02	0.41
13:H6:1001:CYC:O2D	3:M6:58:ARG:NH1	2.53	0.41
3:M6:83:CYS:CB	13:N6:301:CYC:C3C	2.97	0.41
2:O6:52:LEU:HD22	2:O6:137:ILE:HG23	2.02	0.41
2:O6:143:LEU:HD12	2:O6:143:LEU:HA	1.89	0.41
2:Q6:88:ASP:CG	13:Q6:201:CYC:CHB	2.70	0.41
3:R6:38:ARG:NH2	3:R6:101:GLY:CA	2.69	0.41
2:S6:38:SER:OG	2:S6:100:LEU:O	2.36	0.41
2:S6:81:GLY:O	2:S6:85:CYS:N	2.53	0.41
2:S6:91:HIS:HB2	13:S6:1001:CYC:HMB2	2.02	0.41
3:T6:38:ARG:NH2	3:T6:99:LEU:O	2.54	0.41
3:V6:127:SER:O	13:V6:202:CYC:HBB1	2.21	0.41
2:W6:25:LEU:HB3	13:X6:202:CYC:HMC1	2.01	0.41
2:W6:123:PHE:CE2	13:W6:202:CYC:HAA2	2.47	0.41
3:E7:118:TYR:HE1	3:E7:128:VAL:HG21	1.84	0.41
2:F7:19:PHE:CZ	3:G7:49:ALA:HB1	2.55	0.41
3:K7:73:ASN:HD22	3:K7:123:THR:CA	2.32	0.41
7:C8:50:LEU:HD13	7:C8:140:LEU:HD12	2.03	0.41
8:I8:30:ALA:O	8:I8:34:THR:HG22	2.20	0.41
8:M8:30:ALA:O	8:M8:34:THR:HG22	2.20	0.41
7:O8:50:LEU:HD13	7:O8:140:LEU:HD12	2.03	0.41
7:S8:25:ARG:HG2	7:w9:25:ARG:CD	2.45	0.41
9:U8:46:LYS:NZ	10:09:848:GLN:HE21	2.18	0.41
8:a8:78:ARG:HE	13:b8:1001:CYC:CGD	2.23	0.41
13:f8:1001:CYC:HBB2	9:i8:21:ARG:CB	2.49	0.41
8:k8:120:LEU:CD2	10:09:1052:GLN:HE22	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:n8:142:SER:O	7:n8:146:ALA:N	2.50	0.41
7:r8:23:LEU:HB3	8:s8:39:VAL:HG13	2.02	0.41
7:r8:140:LEU:HD23	7:r8:140:LEU:HA	1.84	0.41
8:s8:30:ALA:O	8:s8:34:THR:HG22	2.20	0.41
10:19:162:LEU:HA	10:19:165:PHE:HD2	1.85	0.41
10:19:456:GLY:HA2	10:19:469:PRO:HG2	2.03	0.41
10:19:1124:THR:OG1	10:19:1127:GLY:O	2.39	0.41
8:B9:4:ASP:H	8:B9:7:THR:HB	1.84	0.41
11:Q9:122:VAL:HA	11:Q9:123:PRO:HD2	1.89	0.41
12:V9:23:LEU:HD23	12:V9:26:ILE:HD12	2.01	0.41
8:e9:113:LEU:HD12	8:e9:113:LEU:HA	1.84	0.41
7:i9:123:ILE:H	7:i9:123:ILE:HG13	1.58	0.41
5:AA:17:VAL:HB	13:AA:302:CYC:O1A	2.21	0.41
2:BA:108:LEU:HD23	2:BA:157:TYR:HD2	1.86	0.41
2:FA:103:GLY:O	2:LA:26:GLN:NE2	2.40	0.41
2:JA:41:ALA:HB1	2:JA:151:ALA:HB2	2.03	0.41
2:LA:34:ARG:CZ	2:LA:150:GLU:CD	2.93	0.41
3:MA:95:THR:HA	3:MA:98:ILE:HD12	2.02	0.41
3:MA:157:LEU:C	3:MA:157:LEU:CD1	2.86	0.41
2:WA:108:LEU:HD23	2:WA:157:TYR:HD2	1.86	0.41
2:YA:108:LEU:HD23	2:YA:157:TYR:HD2	1.86	0.41
1:A1:71:GLN:HG2	1:A1:77:ILE:HD12	2.02	0.41
3:C1:77:ASN:OD1	13:D1:1001:CYC:NB	2.54	0.41
3:C1:83:CYS:SG	13:C1:301:CYC:CHD	3.04	0.41
2:D1:150:GLU:CD	2:H1:22:ASN:ND2	2.79	0.41
2:O1:119:ILE:CD1	13:O1:1001:CYC:HMA3	2.45	0.41
2:U1:34:ARG:HD2	2:U1:34:ARG:HA	1.84	0.41
3:Z1:107:ASP:OD1	3:Z1:167:ARG:NH1	2.52	0.41
5:A2:83:ASP:O	4:N2:230:VAL:HG11	2.20	0.41
3:C2:40:ASP:OD2	3:C2:149:ILE:HD12	2.18	0.41
2:D2:10:ILE:HD11	3:E2:100:ALA:HB2	2.03	0.41
2:D2:31:ARG:O	2:D2:35:ALA:HB2	2.21	0.41
4:N2:10:LEU:HD22	4:N2:169:PHE:CD1	2.38	0.41
2:Q2:53:ILE:HG23	2:Q2:89:VAL:HG12	2.02	0.41
2:S2:81:GLY:O	2:S2:85:CYS:N	2.53	0.41
2:S2:91:HIS:HB3	13:S2:1001:CYC:CAB	2.50	0.41
3:V2:20:LEU:HD23	3:V2:20:LEU:HA	1.91	0.41
2:W2:52:LEU:HD22	2:W2:137:ILE:HG23	2.02	0.41
2:W2:92:TYR:CE2	13:W2:202:CYC:HMB2	2.55	0.41
13:W2:203:CYC:HBD1	13:W2:203:CYC:CHA	2.28	0.41
3:G3:85:ARG:O	3:G3:88:GLU:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H3:25:LEU:HD23	2:H3:25:LEU:HA	1.93	0.41
2:J3:13:ALA:HB2	2:J3:24:GLU:HG2	2.02	0.41
2:J3:93:LEU:HD23	2:J3:93:LEU:HA	1.90	0.41
2:L3:88:ASP:OD1	13:L3:201:CYC:HHB	2.15	0.41
3:M3:114:LEU:HD12	3:M3:114:LEU:HA	1.91	0.41
3:I4:150:THR:CG2	13:I4:202:CYC:HAA2	2.51	0.41
4:N4:111:GLU:O	4:N4:114:VAL:HB	2.21	0.41
2:Q4:43:ARG:O	2:Q4:47:SER:OG	2.33	0.41
2:W4:85:CYS:HA	13:W4:1001:CYC:CAC	2.42	0.41
5:A5:27:GLU:H	5:A5:27:GLU:HG3	1.74	0.41
5:A5:246:ALA:HB3	7:A9:79:ALA:HB1	2.03	0.41
2:B5:41:ALA:HB1	2:B5:151:ALA:HB2	2.03	0.41
2:F5:26:GLN:HG2	2:L5:34:ARG:HG2	2.02	0.41
2:F5:41:ALA:HB1	2:F5:151:ALA:HB2	2.03	0.41
2:J5:88:ASP:OD2	2:J5:130:TYR:OH	2.34	0.41
2:L5:108:LEU:HD23	2:L5:157:TYR:HD2	1.85	0.41
2:O5:34:ARG:HD3	2:O5:150:GLU:OE2	2.21	0.41
3:R5:38:ARG:HD3	3:R5:157:LEU:HD21	2.02	0.41
3:T5:38:ARG:HH12	3:T5:101:GLY:HA2	1.86	0.41
3:V5:38:ARG:HH12	3:V5:101:GLY:HA2	1.86	0.41
3:Z5:38:ARG:HH12	3:Z5:101:GLY:HA2	1.86	0.41
2:F6:81:GLY:O	2:F6:85:CYS:N	2.53	0.41
2:H6:13:ALA:HB2	2:H6:24:GLU:HG2	2.02	0.41
3:K6:38:ARG:HH22	3:K6:101:GLY:HA2	1.86	0.41
3:M6:38:ARG:NH1	3:M6:101:GLY:HA3	2.30	0.41
2:O6:53:ILE:HG23	2:O6:89:VAL:HG12	2.01	0.41
3:R6:154:CYS:CB	13:U6:201:CYC:CAC	2.94	0.41
3:X6:30:ASN:O	3:X6:34:GLU:CB	2.69	0.41
2:D7:103:GLY:CA	2:H7:26:GLN:HE22	2.33	0.41
2:F7:34:ARG:HH12	2:F7:146:GLN:HE21	1.67	0.41
3:G7:38:ARG:HH12	3:G7:101:GLY:HA2	1.86	0.41
2:H7:13:ALA:HB2	2:H7:24:GLU:HG2	2.02	0.41
2:H7:81:GLY:O	2:H7:85:CYS:N	2.53	0.41
4:N7:230:VAL:CG2	4:N7:265:ARG:NH1	2.81	0.41
7:E8:50:LEU:HD13	7:E8:140:LEU:HD12	2.03	0.41
7:Q8:119:LEU:HD23	7:Q8:119:LEU:HA	1.90	0.41
8:T8:48:ASN:HB3	7:w9:131:ARG:HH21	1.86	0.41
7:e8:50:LEU:HD13	7:e8:140:LEU:HD12	2.03	0.41
8:f8:88:TYR:CE2	9:i8:21:ARG:HG2	2.55	0.41
7:g8:50:LEU:HD13	7:g8:140:LEU:HD12	2.03	0.41
8:h8:30:ALA:O	8:h8:34:THR:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l8:140:LEU:HD23	7:l8:140:LEU:HA	1.84	0.41
10:09:272:LYS:HE2	9:29:22:GLU:OE2	2.18	0.41
10:09:432:LYS:HB3	8:O9:111:ASN:ND2	2.35	0.41
10:19:616:LEU:HG	10:19:645:ILE:HG23	2.03	0.41
13:19:1205:CYC:HBB1	8:h9:109:VAL:HG22	2.02	0.41
8:l9:113:LEU:HD12	8:l9:113:LEU:HA	1.84	0.41
2:FA:6:ILE:HG23	3:GA:99:LEU:HG	2.03	0.41
2:FA:34:ARG:NH2	13:MA:1003:CYC:H2C	2.36	0.41
2:HA:88:ASP:OD2	2:HA:130:TYR:OH	2.34	0.41
3:KA:68:ILE:CD1	13:LA:201:CYC:O2A	2.69	0.41
2:OA:34:ARG:NH2	2:OA:150:GLU:HB2	2.34	0.41
3:C1:107:ASP:OD1	3:C1:167:ARG:NH1	2.52	0.41
2:H1:43:ARG:O	2:H1:47:SER:OG	2.33	0.41
3:I1:68:ILE:HD13	13:J1:1001:CYC:CGA	2.50	0.41
3:K1:83:CYS:SG	3:K1:84:LEU:N	2.94	0.41
3:K1:144:ASN:O	13:K1:202:CYC:CBB	2.63	0.41
2:L1:34:ARG:HD2	2:L1:34:ARG:HA	1.84	0.41
4:N1:111:GLU:O	4:N1:114:VAL:HB	2.21	0.41
3:R1:68:ILE:HG13	3:R1:69:ALA:N	2.35	0.41
3:R1:121:LEU:HD11	13:R1:1001:CYC:C2A	2.51	0.41
5:A2:191:GLN:HA	7:d9:75:GLN:HG3	2.03	0.41
2:B2:80:ARG:HA	7:k9:66:VAL:HG11	2.03	0.41
2:F2:34:ARG:HH12	2:F2:146:GLN:HE21	1.67	0.41
2:F2:53:ILE:HG23	2:F2:89:VAL:HG12	2.02	0.41
2:H2:53:ILE:HG23	2:H2:89:VAL:HG12	2.01	0.41
3:I2:154:CYS:O	3:I2:154:CYS:SG	2.79	0.41
2:J2:52:LEU:HD22	2:J2:137:ILE:HG23	2.02	0.41
2:J2:88:ASP:CG	13:J2:1001:CYC:HHB	2.46	0.41
3:K2:34:GLU:OE2	3:K2:157:LEU:CD2	2.69	0.41
3:K2:60:LEU:HD21	13:K2:201:CYC:CBB	2.50	0.41
3:K2:154:CYS:O	3:K2:154:CYS:SG	2.79	0.41
4:N2:234:ASP:O	4:N2:235:ARG:HG2	2.21	0.41
4:N2:244:ILE:H	4:N2:255:SER:HB2	1.85	0.41
2:Q2:88:ASP:CA	13:Q2:201:CYC:CMB	2.93	0.41
3:R2:114:LEU:HD12	3:R2:114:LEU:HA	1.91	0.41
3:R2:118:TYR:HE1	3:R2:128:VAL:HG21	1.84	0.41
3:V2:38:ARG:NH2	3:V2:101:GLY:CA	2.81	0.41
3:V2:145:ASP:OD1	3:V2:145:ASP:N	2.53	0.41
2:W2:38:SER:OG	2:W2:100:LEU:O	2.36	0.41
3:X2:58:ARG:NH1	2:Y2:73:PRO:HB3	2.35	0.41
6:A3:61:LYS:HG3	2:B3:117:ALA:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A3:87:GLY:CA	6:A3:140:ILE:HD13	2.49	0.41
6:A3:109:THR:CB	6:A3:139:PHE:HE2	2.33	0.41
2:B3:25:LEU:HB3	13:C3:201:CYC:HBB1	2.03	0.41
2:B3:67:THR:HA	2:B3:75:PHE:HD1	1.85	0.41
3:C3:77:ASN:HB2	2:D3:111:TYR:O	2.21	0.41
3:G3:66:GLN:HB3	2:FA:63:LYS:HA	2.01	0.41
2:H3:53:ILE:HG23	2:H3:89:VAL:HG12	2.01	0.41
2:H3:73:PRO:HB3	3:M3:58:ARG:CZ	2.47	0.41
2:H3:98:TYR:OH	3:I3:13:ALA:O	2.39	0.41
3:I3:85:ARG:HD3	3:I3:85:ARG:O	2.21	0.41
2:J3:88:ASP:CG	13:J3:1001:CYC:HHB	2.46	0.41
3:K3:154:CYS:O	3:K3:154:CYS:SG	2.79	0.41
2:L3:29:ARG:HH11	13:M3:201:CYC:CMD	2.29	0.41
2:L3:74:GLN:HE21	2:L3:75:PHE:HE2	1.68	0.41
3:M3:89:ILE:HG21	13:N3:301:CYC:CBB	2.50	0.41
2:B4:63:LYS:HG2	2:B4:132:GLU:HG3	2.03	0.41
3:C4:78:ARG:C	3:C4:78:ARG:CD	2.94	0.41
3:C4:79:ARG:O	3:C4:82:ALA:HB3	2.20	0.41
3:E4:79:ARG:O	3:E4:82:ALA:N	2.52	0.41
3:G4:7:THR:HA	3:G4:10:VAL:HB	2.02	0.41
3:I4:76:THR:CG2	3:I4:79:ARG:HG3	2.51	0.41
3:I4:85:ARG:C	3:I4:85:ARG:HD2	2.46	0.41
13:I4:201:CYC:HHA	13:I4:201:CYC:HAD2	1.91	0.41
3:K4:83:CYS:SG	3:K4:84:LEU:N	2.94	0.41
4:N4:59:GLU:HB3	4:N4:63:ARG:NH1	2.36	0.41
2:S4:143:LEU:CD2	2:S4:148:ALA:HA	2.48	0.41
3:T4:36:ASN:OD1	13:T4:201:CYC:C3A	2.68	0.41
5:A5:92:GLU:OE2	2:J5:16:GLN:NE2	2.53	0.41
13:A5:302:CYC:H3C	3:E5:128:VAL:HG22	2.02	0.41
13:A5:303:CYC:HAD2	13:A5:303:CYC:HHA	1.91	0.41
13:A5:304:CYC:H2C	4:N5:226:LEU:HD12	2.03	0.41
2:B5:156:ASP:HA	2:B5:159:ILE:HB	2.01	0.41
2:D5:88:ASP:OD2	2:D5:130:TYR:OH	2.34	0.41
2:F5:62:GLN:HB3	3:G7:66:GLN:CG	2.50	0.41
3:G5:38:ARG:HH12	3:G5:101:GLY:HA2	1.86	0.41
2:H5:156:ASP:HA	2:H5:159:ILE:HB	2.02	0.41
3:I5:58:ARG:NH2	13:J5:1001:CYC:O2D	2.41	0.41
2:L5:31:ARG:NH1	2:L5:103:GLY:CA	2.77	0.41
3:R5:30:ASN:O	3:R5:34:GLU:N	2.48	0.41
2:S5:20:LEU:HD23	2:S5:20:LEU:HA	1.94	0.41
3:T5:76:THR:HG22	3:T5:79:ARG:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U5:93:LEU:O	2:U5:97:THR:OG1	2.33	0.41
3:X5:58:ARG:HG2	3:X5:58:ARG:HH11	1.86	0.41
5:A6:83:ASP:O	4:N6:230:VAL:HG11	2.20	0.41
3:I6:144:ASN:C	13:I6:202:CYC:HBB1	2.38	0.41
2:J6:13:ALA:HB2	2:J6:24:GLU:HG2	2.02	0.41
2:J6:88:ASP:CG	13:J6:1001:CYC:HHB	2.46	0.41
2:L6:98:TYR:OH	3:M6:18:GLU:O	2.28	0.41
4:N6:98:LEU:HD23	4:N6:98:LEU:HA	1.91	0.41
2:O6:31:ARG:HH11	2:O6:102:ALA:C	2.28	0.41
3:P6:34:GLU:OE1	3:P6:157:LEU:CD1	2.67	0.41
2:Q6:52:LEU:HD22	2:Q6:137:ILE:HG23	2.02	0.41
2:Q6:143:LEU:HD12	2:Q6:143:LEU:HA	1.89	0.41
3:R6:83:CYS:HB3	13:R6:1001:CYC:C4C	2.51	0.41
2:S6:53:ILE:HG23	2:S6:89:VAL:HG12	2.01	0.41
2:U6:81:GLY:HA2	13:U6:202:CYC:HMD1	2.03	0.41
3:V6:127:SER:CB	13:V6:202:CYC:CBB	2.97	0.41
3:X6:38:ARG:HG3	3:X6:157:LEU:HD21	1.99	0.41
3:X6:138:ALA:O	3:X6:142:ILE:HG13	2.21	0.41
3:X6:144:ASN:HB2	3:X6:158:ILE:HD13	2.03	0.41
6:A7:152:ASN:HB2	6:A7:153:PHE:CD2	2.56	0.41
2:B7:81:GLY:O	2:B7:85:CYS:N	2.53	0.41
2:B7:119:ILE:HD13	13:B7:1001:CYC:HMA3	1.93	0.41
2:D7:52:LEU:HD22	2:D7:137:ILE:HG23	2.02	0.41
2:D7:81:GLY:O	2:D7:85:CYS:N	2.53	0.41
2:H7:94:ARG:NH2	3:I7:14:ASP:HA	2.36	0.41
3:I7:89:ILE:HG21	13:I7:201:CYC:HBB3	2.03	0.41
2:J7:88:ASP:CG	13:J7:1001:CYC:HHB	2.46	0.41
3:K7:154:CYS:O	3:K7:154:CYS:SG	2.79	0.41
8:D8:30:ALA:O	8:D8:34:THR:HG22	2.20	0.41
7:E8:100:ASP:HB3	7:E8:102:THR:HG23	2.01	0.41
7:H8:50:LEU:HD13	7:H8:140:LEU:HD12	2.03	0.41
7:J8:143:ALA:HB2	10:09:929:LEU:N	2.36	0.41
9:N8:22:GLU:O	9:N8:26:THR:N	2.42	0.41
7:O8:15:ALA:CB	10:09:765:GLU:N	2.84	0.41
7:O8:79:ALA:O	5:AA:243:TYR:HB2	2.20	0.41
8:R8:108:ARG:NH1	10:09:732:VAL:CG1	2.83	0.41
8:W8:30:ALA:O	8:W8:34:THR:HG22	2.20	0.41
7:Z8:154:ASP:OD1	8:s8:47:ALA:HB2	2.21	0.41
7:g8:140:LEU:HD23	7:g8:140:LEU:HA	1.84	0.41
7:j8:50:LEU:HD13	7:j8:140:LEU:HD12	2.03	0.41
10:09:275:MET:HE1	10:09:284:LYS:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:09:351:LEU:HD23	10:09:351:LEU:HA	1.87	0.41
10:09:430:PHE:HZ	13:09:1203:CYC:HAA1	1.85	0.41
10:09:712:ASP:HA	10:09:715:ILE:HD12	2.03	0.41
10:19:43:LEU:HA	10:19:46:TYR:HB3	2.01	0.41
10:19:654:THR:OG1	10:19:655:PHE:N	2.54	0.41
10:19:714:ARG:NH1	8:r9:70:GLY:O	2.53	0.41
10:19:986:PHE:CD2	13:19:1201:CYC:HMA1	2.55	0.41
13:29:1001:CYC:HBB1	8:W9:109:VAL:HG22	2.02	0.41
8:D9:98:LEU:HD12	8:D9:98:LEU:HA	1.91	0.41
8:J9:79:TYR:CD1	7:K9:115:MET:HG3	2.56	0.41
8:M9:45:ILE:HD13	8:M9:150:MET:HE2	2.03	0.41
11:Q9:110:LEU:HD21	11:Q9:160:ILE:HG12	2.02	0.41
8:W9:4:ASP:H	8:W9:7:THR:HB	1.85	0.41
7:k9:118:SER:O	7:k9:118:SER:OG	2.35	0.41
7:w9:67:SER:N	5:AA:230:GLY:HA3	2.36	0.41
8:x9:84:ARG:HH11	13:x9:1001:CYC:CGA	2.30	0.41
2:BA:20:LEU:HD23	2:BA:20:LEU:HA	1.94	0.41
2:FA:26:GLN:O	2:LA:30:GLY:HA3	2.21	0.41
3:MA:40:ASP:OD1	13:MA:1003:CYC:NA	2.54	0.41
3:PA:89:ILE:CG1	13:PA:201:CYC:HBB2	2.43	0.41
3:PA:111:LEU:HD13	3:PA:111:LEU:HA	1.90	0.41
2:QA:156:ASP:HA	2:QA:159:ILE:HB	2.01	0.41
3:RA:38:ARG:HD3	3:RA:157:LEU:HD21	2.02	0.41
3:TA:152:GLY:N	13:TA:202:CYC:CMD	2.84	0.41
3:TA:154:CYS:SG	13:TA:202:CYC:HBC2	2.60	0.41
2:UA:108:LEU:HD23	2:UA:157:TYR:HD2	1.86	0.41
2:UA:156:ASP:HA	2:UA:159:ILE:HB	2.02	0.41
3:VA:89:ILE:CG1	13:VA:201:CYC:HMC3	2.28	0.41
3:VA:145:ASP:HA	3:VA:146:PRO:HD3	1.96	0.41
2:WA:156:ASP:HA	2:WA:159:ILE:HB	2.01	0.41
2:YA:93:LEU:O	2:YA:97:THR:OG1	2.33	0.41
3:ZA:40:ASP:OD2	3:ZA:40:ASP:N	2.39	0.41
3:ZA:92:ARG:H	3:ZA:92:ARG:HG2	1.65	0.41
3:G1:7:THR:HA	3:G1:10:VAL:HB	2.02	0.41
3:I1:76:THR:CG2	3:I1:79:ARG:HG3	2.51	0.41
4:N1:59:GLU:HB3	4:N1:63:ARG:NH1	2.36	0.41
3:T1:36:ASN:CG	13:T1:201:CYC:C2A	2.94	0.41
2:Y1:43:ARG:NH2	3:Z1:26:ASP:OD1	2.54	0.41
2:H2:52:LEU:HD22	2:H2:137:ILE:HG23	2.02	0.41
3:M2:89:ILE:HG21	13:N2:301:CYC:CBB	2.50	0.41
13:N2:302:CYC:C2B	3:T2:83:CYS:HB2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S2:38:SER:HA	2:S2:150:GLU:HG2	2.03	0.41
2:S2:74:GLN:HA	13:S2:1001:CYC:HBD2	2.02	0.41
6:A3:103:TYR:OH	3:C3:117:THR:CG2	2.64	0.41
6:A3:118:ALA:HB3	6:A3:124:GLU:CG	2.51	0.41
6:A3:152:ASN:ND2	6:A3:162:ARG:NH1	2.69	0.41
2:D3:53:ILE:HG23	2:D3:89:VAL:HG12	2.01	0.41
2:F3:34:ARG:HH12	2:F3:146:GLN:HE21	1.67	0.41
3:G3:114:LEU:HD12	3:G3:114:LEU:HA	1.91	0.41
2:H3:32:TYR:HE2	3:I3:35:GLY:C	2.29	0.41
2:H3:81:GLY:O	2:H3:85:CYS:N	2.53	0.41
2:H3:94:ARG:NH2	3:I3:14:ASP:HA	2.36	0.41
1:A4:198:PHE:CD2	7:V8:83:ARG:HB2	2.56	0.41
2:H4:63:LYS:HG2	2:H4:132:GLU:HG3	2.03	0.41
3:I4:76:THR:CG2	3:I4:79:ARG:CD	2.96	0.41
2:J4:63:LYS:HG2	2:J4:132:GLU:HG3	2.03	0.41
3:K4:83:CYS:CB	13:K4:201:CYC:CHB	2.97	0.41
2:L4:149:ASN:O	2:L4:153:THR:HG23	2.21	0.41
3:M4:7:THR:HA	3:M4:10:VAL:HB	2.02	0.41
3:M4:26:ASP:HB3	2:J7:51:ARG:HH21	1.49	0.41
3:R4:121:LEU:HD11	13:R4:1001:CYC:C2A	2.51	0.41
3:T4:36:ASN:CG	13:T4:201:CYC:C2A	2.94	0.41
2:Y4:63:LYS:HG2	2:Y4:132:GLU:HG3	2.03	0.41
5:A5:58:GLU:O	5:A5:61:ILE:HG12	2.21	0.41
5:A5:163:GLN:OE1	5:A5:172:HIS:CD2	2.74	0.41
5:A5:170:ARG:NE	3:G5:112:ASN:OD1	2.53	0.41
5:A5:230:GLY:HA3	7:q9:67:SER:N	2.35	0.41
3:C5:111:LEU:HD13	3:C5:111:LEU:HA	1.90	0.41
2:D5:32:TYR:HD1	3:E5:32:VAL:HA	1.85	0.41
3:G5:76:THR:HG22	3:G5:79:ARG:HD2	2.03	0.41
2:Q5:16:GLN:HE22	2:U5:3:LYS:HE3	1.86	0.41
5:A6:195:ARG:HE	3:G6:124:PRO:HB3	1.86	0.41
2:F6:74:GLN:HA	13:F6:1001:CYC:HBD2	2.03	0.41
2:Q6:26:GLN:HG2	2:U6:34:ARG:CD	2.18	0.41
3:R6:34:GLU:HG3	3:R6:37:LYS:CE	2.51	0.41
3:R6:68:ILE:CD1	13:S6:1001:CYC:O1A	2.68	0.41
2:U6:52:LEU:HD22	2:U6:137:ILE:HG23	2.02	0.41
3:X6:144:ASN:CG	13:X6:202:CYC:HBB1	2.43	0.41
2:B7:73:PRO:CG	3:G7:58:ARG:HH21	2.32	0.41
3:C7:41:VAL:O	3:C7:45:ILE:HG12	2.20	0.41
2:D7:74:GLN:NE2	2:D7:75:PHE:CE2	2.80	0.41
3:G7:82:ALA:HB1	13:G7:201:CYC:C2D	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H7:143:LEU:HD12	2:H7:143:LEU:HA	1.90	0.41
13:I7:201:CYC:HHA	13:I7:201:CYC:HAD2	1.91	0.41
2:J7:52:LEU:HD22	2:J7:137:ILE:HG23	2.02	0.41
3:K7:60:LEU:HD21	13:K7:201:CYC:CBB	2.50	0.41
3:M7:20:LEU:HD23	3:M7:20:LEU:HA	1.92	0.41
8:F8:127:THR:HG23	13:F8:1001:CYC:H3C	2.04	0.41
7:J8:50:LEU:HD13	7:J8:140:LEU:HD12	2.03	0.41
7:O8:52:LYS:HB3	5:AA:239:PHE:CE2	2.56	0.41
9:U8:4:LEU:HD23	9:U8:33:PRO:HA	2.03	0.41
8:d8:81:ALA:O	8:d8:84:ARG:HG2	2.21	0.41
8:o8:11:ASN:ND2	10:09:946:GLU:OE1	2.54	0.41
7:t8:82:LEU:CB	10:19:930:PHE:CB	2.95	0.41
10:09:259:LEU:HD22	10:09:410:GLU:H	1.85	0.41
13:39:1001:CYC:CGA	8:n9:84:ARG:HH11	2.30	0.41
7:N9:3:ILE:HD11	7:R9:25:ARG:NH2	2.36	0.41
8:e9:45:ILE:HD13	8:e9:150:MET:HE2	2.03	0.41
8:v9:62:LEU:HD23	8:v9:62:LEU:HA	1.88	0.41
5:AA:41:TYR:CZ	5:AA:45:GLN:HB2	2.56	0.41
13:AA:304:CYC:HAC1	3:KA:114:LEU:CD1	2.35	0.41
3:CA:157:LEU:HD12	3:CA:157:LEU:O	2.21	0.41
2:FA:6:ILE:HD11	2:FA:31:ARG:HD3	2.03	0.41
3:GA:38:ARG:HH12	3:GA:101:GLY:HA2	1.86	0.41
2:UA:20:LEU:HD23	2:UA:20:LEU:HA	1.94	0.41
2:YA:38:SER:HB3	2:YA:150:GLU:OE1	2.21	0.41
1:A1:168:ARG:HB3	1:A1:173:VAL:HG23	1.96	0.40
2:J1:150:GLU:O	2:J1:153:THR:HG23	2.21	0.40
4:N1:168:ILE:HD12	4:N1:171:LEU:HD12	2.02	0.40
13:P1:201:CYC:NC	13:P1:201:CYC:HMD3	2.36	0.40
2:S1:60:VAL:HG11	13:S1:1001:CYC:HMC1	2.01	0.40
2:Y1:88:ASP:OD2	13:Y1:201:CYC:ND	2.49	0.40
2:B2:61:TYR:OH	2:B2:85:CYS:SG	2.71	0.40
3:C2:82:ALA:HB3	13:C2:201:CYC:C2D	2.50	0.40
3:C2:89:ILE:HG21	13:C2:201:CYC:HBB3	2.03	0.40
3:E2:157:LEU:HD23	3:E2:157:LEU:HA	1.94	0.40
3:G2:79:ARG:O	13:G2:202:CYC:HMD1	2.21	0.40
3:I2:89:ILE:HG21	13:I2:201:CYC:HBB3	2.03	0.40
4:N2:152:ARG:CZ	4:N2:152:ARG:HB2	2.51	0.40
2:Q2:81:GLY:O	2:Q2:85:CYS:N	2.53	0.40
3:R2:37:LYS:NZ	3:R2:153:ASP:O	2.52	0.40
3:R2:68:ILE:CD1	13:S2:1001:CYC:O1A	2.68	0.40
2:U2:96:ILE:HD13	2:U2:96:ILE:HA	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V2:127:SER:O	13:V2:202:CYC:HBB1	2.21	0.40
6:A3:152:ASN:HB2	6:A3:153:PHE:CD2	2.56	0.40
2:D3:10:ILE:HD11	3:E3:100:ALA:HB2	2.03	0.40
3:I3:64:GLN:OE1	3:I3:127:SER:OG	2.32	0.40
2:J3:38:SER:OG	2:J3:100:LEU:O	2.36	0.40
3:C4:73:ASN:HD22	13:C4:301:CYC:C1C	2.34	0.40
2:F4:63:LYS:HG2	2:F4:132:GLU:HG3	2.04	0.40
4:N4:112:SER:O	4:N4:115:VAL:HG13	2.20	0.40
3:T4:121:LEU:HD22	13:T4:202:CYC:O2A	2.21	0.40
5:A5:41:TYR:CZ	5:A5:45:GLN:HB2	2.56	0.40
2:D5:119:ILE:O	2:D5:122:THR:OG1	2.36	0.40
2:H5:61:TYR:OH	2:H5:85:CYS:SG	2.68	0.40
3:I5:38:ARG:HH12	3:I5:101:GLY:HA2	1.86	0.40
3:I5:76:THR:HG22	3:I5:79:ARG:HD2	2.03	0.40
3:K5:68:ILE:CD1	13:L5:201:CYC:O2A	2.69	0.40
2:O5:41:ALA:HB1	2:O5:151:ALA:HB2	2.03	0.40
3:T5:44:ARG:HG2	3:T5:143:ALA:HA	2.01	0.40
2:U5:41:ALA:HB1	2:U5:151:ALA:HB2	2.03	0.40
3:V5:39:LEU:HD23	13:V5:202:CYC:C1C	2.50	0.40
5:A6:25:GLN:H	5:A6:25:GLN:HG3	1.58	0.40
3:I6:85:ARG:HD3	3:I6:85:ARG:O	2.21	0.40
3:I6:154:CYS:O	3:I6:154:CYS:SG	2.79	0.40
3:K6:73:ASN:HD22	3:K6:123:THR:CA	2.32	0.40
3:K6:79:ARG:HA	13:K6:201:CYC:O1A	2.22	0.40
4:N6:76:VAL:O	4:N6:79:SER:OG	2.37	0.40
4:N6:152:ARG:CZ	4:N6:152:ARG:HB2	2.51	0.40
2:S6:30:GLY:O	2:S6:34:ARG:N	2.41	0.40
3:T6:68:ILE:HG13	3:T6:69:ALA:N	2.36	0.40
3:V6:20:LEU:HD23	3:V6:20:LEU:HA	1.91	0.40
3:Z6:160:GLU:HA	3:Z6:163:SER:HB3	2.04	0.40
3:I7:58:ARG:CZ	2:J7:73:PRO:HB3	2.48	0.40
2:L7:81:GLY:O	2:L7:85:CYS:N	2.53	0.40
3:M7:89:ILE:HG21	13:N7:301:CYC:CBB	2.50	0.40
4:N7:230:VAL:O	4:N7:265:ARG:NH2	2.54	0.40
4:N7:238:ARG:HH21	4:N7:258:VAL:HG11	1.81	0.40
8:B8:68:ARG:CG	8:B8:69:PRO:HD2	2.45	0.40
8:B8:77:ARG:HB3	7:C8:110:ILE:HG23	2.02	0.40
7:E8:142:SER:O	7:E8:146:ALA:N	2.50	0.40
7:O8:15:ALA:HB2	10:09:765:GLU:CB	2.45	0.40
8:W8:123:PRO:HG2	13:W8:1001:CYC:HMC1	2.04	0.40
8:a8:30:ALA:O	8:a8:34:THR:HG22	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:c8:123:ILE:HD13	7:c8:123:ILE:HA	1.92	0.40
13:d8:1001:CYC:O1A	10:09:1004:ARG:HD2	2.22	0.40
8:m8:78:ARG:NH1	10:09:947:VAL:HG12	2.34	0.40
7:t8:82:LEU:HB3	10:19:930:PHE:CD1	2.55	0.40
10:09:27:GLN:NE2	7:T9:14:GLU:OE1	2.54	0.40
10:19:975:ILE:HA	10:19:975:ILE:HD13	1.95	0.40
9:39:57:ALA:HB1	8:j9:111:ASN:HD21	1.84	0.40
9:49:20:GLN:O	8:D9:88:TYR:CZ	2.61	0.40
12:V9:20:SER:HA	12:V9:23:LEU:HD12	2.03	0.40
8:j9:109:VAL:HG22	13:j9:1001:CYC:HBB1	2.02	0.40
7:k9:90:ARG:HD3	8:l9:19:TYR:CD2	2.57	0.40
8:t9:45:ILE:HD13	8:t9:150:MET:HE2	2.03	0.40
8:v9:45:ILE:HD13	8:v9:150:MET:HE2	2.03	0.40
8:x9:109:VAL:HG22	13:x9:1001:CYC:HBB1	2.02	0.40
8:z9:109:VAL:HG22	13:z9:1001:CYC:HBB1	2.02	0.40
5:AA:53:ARG:HD2	5:AA:53:ARG:O	2.20	0.40
5:AA:171:PRO:HG2	5:AA:174:LEU:HD23	2.01	0.40
13:AA:302:CYC:HBC3	3:EA:128:VAL:HG22	2.02	0.40
2:FA:93:LEU:HD23	2:FA:93:LEU:HA	1.90	0.40
3:GA:92:ARG:H	3:GA:92:ARG:HG2	1.65	0.40
2:HA:108:LEU:HD23	2:HA:157:TYR:HD2	1.86	0.40
3:XA:145:ASP:HA	3:XA:146:PRO:HD3	1.90	0.40
3:ZA:38:ARG:HH12	3:ZA:101:GLY:HA2	1.86	0.40
2:B1:85:CYS:CA	13:B1:1001:CYC:CAC	2.72	0.40
3:C1:78:ARG:C	3:C1:78:ARG:CD	2.94	0.40
2:D1:143:LEU:HD12	2:D1:143:LEU:HA	1.91	0.40
3:E1:39:LEU:HB3	13:E1:202:CYC:HBB3	2.04	0.40
2:J1:34:ARG:HH12	2:J1:150:GLU:HB2	1.76	0.40
2:O1:119:ILE:HD11	13:O1:1001:CYC:CMA	2.46	0.40
2:Q1:146:GLN:CD	2:Q1:146:GLN:N	2.73	0.40
2:S1:34:ARG:HD2	2:S1:34:ARG:HA	1.84	0.40
5:A2:239:PHE:CD1	7:n8:60:GLN:NE2	2.89	0.40
3:E2:160:GLU:HA	3:E2:163:SER:HB3	2.03	0.40
2:H2:94:ARG:NH2	3:I2:14:ASP:HA	2.36	0.40
2:J2:81:GLY:O	2:J2:85:CYS:N	2.53	0.40
3:K2:73:ASN:HD22	3:K2:123:THR:CA	2.32	0.40
2:S2:5:PRO:CD	2:Y2:23:THR:OG1	2.69	0.40
2:S2:30:GLY:O	2:S2:34:ARG:N	2.41	0.40
3:G3:145:ASP:HA	3:G3:146:PRO:HD3	1.83	0.40
2:H3:93:LEU:O	2:H3:97:THR:OG1	2.34	0.40
3:I3:58:ARG:NH1	13:J3:1001:CYC:O1D	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:I3:201:CYC:HHA	13:I3:201:CYC:HAD2	1.90	0.40
2:J3:31:ARG:NH2	2:J3:35:ALA:HB2	2.36	0.40
3:K3:20:LEU:HD23	3:K3:20:LEU:HA	1.91	0.40
3:K3:60:LEU:CD2	13:K3:201:CYC:CBB	2.93	0.40
1:A4:191:ILE:H	1:A4:191:ILE:HG12	1.64	0.40
3:G4:43:ASN:ND2	13:G4:201:CYC:HMB1	2.33	0.40
2:L4:119:ILE:CD1	13:L4:201:CYC:HMA1	2.51	0.40
2:Q4:63:LYS:HG2	2:Q4:132:GLU:HG3	2.03	0.40
2:W4:123:PHE:CE2	13:W4:1001:CYC:CAA	3.04	0.40
5:A5:176:THR:HA	5:A5:177:PRO:HD3	1.86	0.40
2:B5:29:ARG:CD	13:C5:201:CYC:OB	2.65	0.40
3:E5:95:THR:HA	3:E5:98:ILE:HD12	2.02	0.40
3:E5:111:LEU:HD13	3:E5:111:LEU:HA	1.90	0.40
3:T5:37:LYS:HB3	3:T5:157:LEU:HD23	2.04	0.40
2:W5:108:LEU:HD23	2:W5:157:TYR:HD2	1.86	0.40
5:A6:102:ASN:OD1	5:A6:179:TYR:HA	2.21	0.40
3:G6:82:ALA:HB1	13:G6:202:CYC:C2D	2.52	0.40
2:J6:31:ARG:NH2	2:J6:35:ALA:HB2	2.36	0.40
2:U6:32:TYR:HE2	3:V6:35:GLY:HA2	1.66	0.40
3:Z6:44:ARG:HH21	3:Z6:149:ILE:HG12	1.86	0.40
3:C7:160:GLU:HA	3:C7:163:SER:HB3	2.04	0.40
2:F7:74:GLN:HA	13:F7:1001:CYC:HBD2	2.03	0.40
3:G7:91:LEU:HD23	3:G7:91:LEU:HA	1.89	0.40
3:K7:38:ARG:HH22	3:K7:101:GLY:HA2	1.86	0.40
8:D8:123:PRO:HG2	13:D8:1001:CYC:HMC1	2.04	0.40
7:S8:89:LEU:HG	8:T8:19:TYR:HE1	1.85	0.40
7:S8:142:SER:O	7:S8:146:ALA:N	2.50	0.40
8:Y8:82:CYS:SG	13:Y8:1001:CYC:HAC1	2.51	0.40
7:c8:50:LEU:HD13	7:c8:140:LEU:HD12	2.03	0.40
13:d8:1001:CYC:CMA	10:09:1001:SER:O	2.69	0.40
7:g8:123:ILE:HD13	7:g8:123:ILE:HA	1.91	0.40
8:s8:21:ASP:OD1	8:s8:21:ASP:N	2.46	0.40
10:09:179:ASN:HA	10:09:182:VAL:HG22	2.03	0.40
10:09:522:ASP:C	10:09:523:GLN:CG	2.95	0.40
10:19:812:LYS:HD3	10:19:878:LEU:HD13	2.03	0.40
8:D9:45:ILE:HD13	8:D9:150:MET:HE2	2.04	0.40
8:H9:45:ILE:HD13	8:H9:150:MET:HE2	2.04	0.40
8:L9:45:ILE:HD13	8:L9:150:MET:HE2	2.03	0.40
8:M9:88:TYR:HD1	8:M9:88:TYR:HA	1.75	0.40
8:j9:45:ILE:HD13	8:j9:150:MET:HE2	2.04	0.40
7:o9:115:MET:HG3	8:t9:79:TYR:CD1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AA:31:TYR:HE2	2:FA:12:ALA:HA	1.85	0.40
5:AA:163:GLN:OE1	5:AA:172:HIS:CD2	2.74	0.40
13:AA:304:CYC:H2C	4:NA:226:LEU:HD12	2.03	0.40
3:CA:38:ARG:HH12	3:CA:101:GLY:HA2	1.86	0.40
2:DA:41:ALA:HB1	2:DA:151:ALA:HB2	2.03	0.40
2:FA:26:GLN:HG2	2:LA:34:ARG:HG2	2.03	0.40
2:FA:27:SER:HA	2:LA:27:SER:HA	2.03	0.40
2:HA:74:GLN:H	2:HA:74:GLN:HG3	1.75	0.40
3:PA:38:ARG:HH12	3:PA:101:GLY:HA2	1.86	0.40
2:QA:31:ARG:HH11	2:QA:103:GLY:HA2	1.65	0.40
2:QA:34:ARG:HE	2:QA:150:GLU:CD	2.29	0.40
2:UA:41:ALA:HB1	2:UA:151:ALA:HB2	2.03	0.40
2:WA:93:LEU:HA	2:WA:93:LEU:HD23	1.90	0.40
13:E1:202:CYC:HMA1	13:E1:202:CYC:C1B	2.52	0.40
2:F1:93:LEU:HD13	2:F1:93:LEU:HA	1.94	0.40
2:Q1:141:HIS:CD2	2:Q1:141:HIS:H	2.39	0.40
3:I2:58:ARG:NH1	13:J2:1001:CYC:O1D	2.51	0.40
3:I2:83:CYS:CA	13:I2:201:CYC:CAC	2.95	0.40
2:J2:31:ARG:NH2	2:J2:35:ALA:HB2	2.36	0.40
2:L2:81:GLY:O	2:L2:85:CYS:N	2.53	0.40
4:N2:111:GLU:HA	4:N2:194:LEU:HD21	2.04	0.40
4:N2:238:ARG:HH21	4:N2:258:VAL:HG11	1.81	0.40
13:W2:203:CYC:CMB	3:X2:41:VAL:CG2	2.99	0.40
2:Y2:31:ARG:HD3	2:Y2:35:ALA:HB2	2.04	0.40
2:Y2:52:LEU:HD22	2:Y2:137:ILE:HG23	2.02	0.40
13:A3:301:CYC:HHA	3:C3:121:LEU:HD13	2.03	0.40
3:K3:160:GLU:HA	3:K3:163:SER:HB3	2.04	0.40
2:L3:52:LEU:HD22	2:L3:137:ILE:HG23	2.02	0.40
1:A4:65:GLN:O	1:A4:69:GLU:HG3	2.21	0.40
1:A4:199:LEU:HD23	7:V8:79:ALA:CB	2.51	0.40
2:B4:86:ALA:HB3	8:W8:22:THR:O	2.20	0.40
2:D4:88:ASP:O	13:D4:1001:CYC:CMB	2.69	0.40
3:E4:39:LEU:HB3	13:E4:202:CYC:HBB3	2.03	0.40
2:Q4:157:TYR:OH	2:U4:18:ARG:NH1	2.54	0.40
3:I5:128:VAL:CG2	13:I5:201:CYC:HMC3	2.52	0.40
13:M5:1003:CYC:HBD1	13:M5:1003:CYC:CHA	2.28	0.40
13:N5:301:CYC:HHA	13:N5:301:CYC:HAD2	1.91	0.40
2:S5:88:ASP:OD2	2:S5:130:TYR:OH	2.34	0.40
3:X5:95:THR:HA	3:X5:98:ILE:HD12	2.02	0.40
5:A6:215:ASP:OD2	8:H9:68:ARG:NH2	2.54	0.40
5:A6:216:PRO:HB3	7:I9:80:THR:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G6:145:ASP:HA	3:G6:146:PRO:HD3	1.83	0.40
13:N6:302:CYC:C3A	3:T6:82:ALA:HB1	2.52	0.40
2:Q6:88:ASP:OD1	13:Q6:201:CYC:C1B	2.66	0.40
2:Q6:88:ASP:CA	13:Q6:201:CYC:CMB	2.93	0.40
2:S6:29:ARG:HD3	2:S6:33:GLU:CD	2.47	0.40
2:S6:119:ILE:CD1	13:S6:1001:CYC:HMA3	2.49	0.40
2:U6:96:ILE:HD13	2:U6:96:ILE:HA	1.94	0.40
3:V6:89:ILE:HG21	13:V6:202:CYC:HMC3	1.97	0.40
3:X6:58:ARG:HH12	13:Y6:201:CYC:CGD	2.34	0.40
13:A7:301:CYC:HHA	3:C7:121:LEU:HD13	2.03	0.40
3:E7:43:ASN:HD21	2:H7:153:THR:HG21	1.86	0.40
8:F8:123:PRO:HG2	13:F8:1001:CYC:HMC1	2.04	0.40
9:G8:20:GLN:HE22	10:09:520:LYS:NZ	2.18	0.40
7:H8:14:GLU:HG2	10:19:592:ASP:OD1	2.20	0.40
8:I8:123:PRO:HG2	13:I8:1001:CYC:HMC1	2.04	0.40
7:L8:90:ARG:HB2	8:M8:19:TYR:CE2	2.57	0.40
8:R8:123:PRO:HG2	13:R8:1001:CYC:HMC1	2.04	0.40
7:g8:142:SER:O	7:g8:146:ALA:N	2.50	0.40
8:k8:127:THR:HG23	13:k8:1001:CYC:H3C	2.03	0.40
7:n8:50:LEU:HD13	7:n8:140:LEU:HD12	2.03	0.40
7:r8:74:GLY:O	7:r8:78:THR:OG1	2.33	0.40
10:09:72:ALA:HA	10:09:75:ILE:HG22	2.03	0.40
10:09:520:LYS:HG3	10:09:659:THR:HG22	2.02	0.40
10:19:432:LYS:O	8:e9:111:ASN:ND2	2.54	0.40
7:C9:131:ARG:HH21	8:t9:48:ASN:HB3	1.86	0.40
8:F9:45:ILE:HD13	8:F9:150:MET:HE2	2.03	0.40
8:O9:98:LEU:HD12	8:O9:98:LEU:HA	1.91	0.40
8:S9:45:ILE:HD13	8:S9:150:MET:HE2	2.03	0.40
7:b9:123:ILE:H	7:b9:123:ILE:HG13	1.58	0.40
8:z9:113:LEU:HD12	8:z9:113:LEU:HA	1.84	0.40
5:AA:15:HIS:HE1	5:AA:121:TYR:CZ	2.39	0.40
5:AA:58:GLU:O	5:AA:61:ILE:HG12	2.22	0.40
13:AA:302:CYC:H3C	3:EA:128:VAL:HG22	2.02	0.40
2:FA:41:ALA:HB1	2:FA:151:ALA:HB2	2.03	0.40
3:KA:38:ARG:HH12	3:KA:101:GLY:HA2	1.86	0.40
2:LA:34:ARG:HH21	2:LA:150:GLU:CD	2.29	0.40
4:NA:24:ARG:HA	4:NA:25:PRO:HD3	1.93	0.40
2:OA:108:LEU:HD23	2:OA:157:TYR:HD2	1.86	0.40
3:RA:76:THR:HG22	3:RA:79:ARG:HD2	2.03	0.40
3:XA:38:ARG:HH12	3:XA:101:GLY:HA2	1.86	0.40
3:XA:76:THR:HG22	3:XA:79:ARG:HD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:XA:201:CYC:HAD2	13:XA:201:CYC:HHA	1.91	0.40
2:YA:41:ALA:HB1	2:YA:151:ALA:HB2	2.03	0.40
1:A1:201:LEU:CG	7:c8:52:LYS:HE3	2.50	0.40
2:D1:88:ASP:O	13:D1:1001:CYC:CMB	2.69	0.40
3:E1:79:ARG:O	3:E1:82:ALA:CB	2.66	0.40
3:E1:79:ARG:O	3:E1:82:ALA:N	2.52	0.40
2:J1:143:LEU:HD12	2:J1:143:LEU:HA	1.92	0.40
3:K1:20:LEU:HD23	3:K1:20:LEU:HA	1.81	0.40
3:K1:110:CYS:SG	13:K1:201:CYC:CBC	3.05	0.40
2:L1:63:LYS:HG2	2:L1:132:GLU:HG3	2.03	0.40
3:M1:76:THR:HG22	3:M1:79:ARG:HG3	1.95	0.40
2:O1:37:ALA:O	2:O1:147:ALA:HA	2.22	0.40
2:Q1:63:LYS:HG2	2:Q1:132:GLU:HG3	2.03	0.40
2:U1:63:LYS:HG2	2:U1:132:GLU:HG3	2.03	0.40
2:Y1:63:LYS:HG2	2:Y1:132:GLU:HG3	2.03	0.40
5:A2:182:ASP:OD1	5:A2:182:ASP:N	2.51	0.40
3:C2:77:ASN:HB2	2:D2:111:TYR:O	2.21	0.40
3:C2:109:ARG:N	3:C2:109:ARG:HD3	2.37	0.40
2:D2:38:SER:OG	2:D2:100:LEU:O	2.36	0.40
2:D2:81:GLY:O	2:D2:85:CYS:N	2.53	0.40
3:I2:91:LEU:HD23	3:I2:91:LEU:HA	1.89	0.40
3:M2:38:ARG:NH1	3:M2:101:GLY:HA3	2.30	0.40
2:O2:34:ARG:CZ	13:W2:203:CYC:CAC	2.98	0.40
2:O2:52:LEU:HD22	2:O2:137:ILE:HG23	2.02	0.40
3:P2:160:GLU:HA	3:P2:163:SER:HB3	2.04	0.40
3:R2:34:GLU:HG3	3:R2:37:LYS:CE	2.51	0.40
3:T2:38:ARG:NH2	3:T2:99:LEU:O	2.54	0.40
3:X2:38:ARG:HG2	3:X2:157:LEU:CD1	2.52	0.40
6:A3:81:ASP:O	4:N3:230:VAL:HG11	2.20	0.40
2:B3:38:SER:OG	2:B3:100:LEU:O	2.36	0.40
3:C3:157:LEU:O	3:C3:161:VAL:CG2	2.57	0.40
13:C3:201:CYC:CBD	13:C3:201:CYC:CHA	2.85	0.40
2:F3:103:GLY:O	2:L3:26:GLN:NE2	2.55	0.40
1:A4:212:PHE:HD1	7:r8:66:VAL:HB	1.86	0.40
2:B4:138:LYS:O	2:B4:141:HIS:HD2	2.02	0.40
3:C4:79:ARG:O	13:C4:301:CYC:CMD	2.63	0.40
2:F4:25:LEU:CD2	13:G4:201:CYC:CBB	2.93	0.40
2:H4:34:ARG:HA	2:H4:34:ARG:HD2	1.84	0.40
3:I4:154:CYS:HB2	3:I4:157:LEU:HB3	2.04	0.40
2:L4:63:LYS:HG2	2:L4:132:GLU:HG3	2.03	0.40
2:O4:143:LEU:HD12	2:O4:143:LEU:HA	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V4:38:ARG:O	3:V4:41:VAL:HG13	2.22	0.40
5:A5:229:GLN:CA	7:q9:66:VAL:HG12	2.38	0.40
13:A5:302:CYC:HBC3	3:E5:128:VAL:HG22	2.02	0.40
3:C5:142:ILE:HD13	3:C5:142:ILE:HA	1.76	0.40
3:P5:76:THR:HG22	3:P5:79:ARG:HD2	2.04	0.40
2:Q5:74:GLN:H	2:Q5:74:GLN:HG3	1.75	0.40
2:S5:108:LEU:HD23	2:S5:157:TYR:HD2	1.85	0.40
5:A6:212:ARG:HE	8:M9:68:ARG:HD2	1.45	0.40
2:B6:67:THR:HA	2:B6:75:PHE:HD1	1.85	0.40
3:C6:89:ILE:HG21	13:C6:201:CYC:HBB3	2.03	0.40
3:G6:85:ARG:O	3:G6:88:GLU:HG3	2.21	0.40
2:H6:98:TYR:OH	3:I6:13:ALA:O	2.39	0.40
2:L6:74:GLN:NE2	2:L6:75:PHE:HE2	2.20	0.40
4:N6:14:PRO:HB3	3:P6:109:ARG:HH12	1.86	0.40
4:N6:230:VAL:O	4:N6:265:ARG:NH2	2.54	0.40
4:N6:234:ASP:O	4:N6:235:ARG:HG2	2.21	0.40
2:O6:43:ARG:HG2	3:P6:25:LEU:HD13	2.03	0.40
3:P6:20:LEU:HD23	3:P6:20:LEU:HA	1.91	0.40
3:P6:83:CYS:SG	3:P6:84:LEU:N	2.94	0.40
3:P6:160:GLU:HA	3:P6:163:SER:HB3	2.04	0.40
2:W6:143:LEU:HA	2:W6:143:LEU:HD12	1.89	0.40
3:I7:83:CYS:CA	13:I7:201:CYC:CAC	2.95	0.40
3:K7:160:GLU:HA	3:K7:163:SER:HB3	2.04	0.40
2:L7:38:SER:OG	2:L7:100:LEU:O	2.36	0.40
8:B8:68:ARG:O	8:B8:69:PRO:C	2.63	0.40
8:B8:123:PRO:HG2	13:B8:1001:CYC:HMC1	2.04	0.40
8:D8:11:ASN:OD1	10:09:537:SER:N	2.54	0.40
8:M8:123:PRO:HG2	13:M8:1001:CYC:HMC1	2.04	0.40
7:O8:142:SER:O	7:O8:146:ALA:N	2.50	0.40
8:P8:127:THR:HG23	13:P8:1001:CYC:H3C	2.03	0.40
8:d8:57:VAL:CG1	8:d8:86:LEU:CD1	2.99	0.40
7:j8:119:LEU:HD23	7:j8:119:LEU:HA	1.89	0.40
8:s8:127:THR:HG23	13:s8:1001:CYC:H3C	2.03	0.40
7:t8:82:LEU:HB3	10:19:930:PHE:CG	2.57	0.40
10:09:276:LYS:HA	10:09:276:LYS:HD2	1.92	0.40
10:09:827:LYS:HB2	10:09:827:LYS:HE3	1.91	0.40
10:09:978:ILE:HG12	10:09:1089:VAL:HG23	2.04	0.40
10:19:1084:PHE:CE1	10:19:1090:PRO:HA	2.56	0.40
8:B9:45:ILE:HD13	8:B9:150:MET:HE2	2.04	0.40
8:B9:62:LEU:HD23	8:B9:62:LEU:HA	1.88	0.40
7:C9:158:GLY:HA2	8:t9:47:ALA:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D9:109:VAL:HG22	13:D9:1001:CYC:HBB1	2.02	0.40
7:b9:49:ARG:NH2	8:x9:141:LEU:HD12	2.37	0.40
8:c9:45:ILE:HD13	8:c9:150:MET:HE2	2.03	0.40
8:e9:62:LEU:HD23	8:e9:62:LEU:HA	1.88	0.40
8:l9:45:ILE:HD13	8:l9:150:MET:HE2	2.03	0.40
8:n9:45:ILE:HD13	8:n9:150:MET:HE2	2.03	0.40
8:v9:63:TYR:CE1	5:AA:216:PRO:HG3	2.57	0.40
5:AA:63:LYS:HD2	2:BA:117:ALA:HB1	2.03	0.40
5:AA:174:LEU:C	5:AA:174:LEU:CD1	2.85	0.40
5:AA:174:LEU:HD12	5:AA:174:LEU:O	2.20	0.40
2:HA:34:ARG:HA	2:HA:34:ARG:HD2	1.83	0.40
2:LA:31:ARG:NH1	2:LA:103:GLY:CA	2.77	0.40
2:LA:41:ALA:HB1	2:LA:151:ALA:HB2	2.03	0.40
4:NA:244:ILE:HG23	4:NA:276:GLN:HB3	2.02	0.40
2:OA:156:ASP:HA	2:OA:159:ILE:HB	2.02	0.40
13:PA:201:CYC:NC	13:PA:201:CYC:HMD3	2.36	0.40
2:B1:63:LYS:HG2	2:B1:132:GLU:HG3	2.03	0.40
3:I1:154:CYS:C	3:I1:156:GLN:H	2.30	0.40
2:J1:63:LYS:HG2	2:J1:132:GLU:HG3	2.04	0.40
4:N1:70:ARG:HH12	4:N1:140:GLN:HE21	1.69	0.40
2:O1:119:ILE:HD13	13:O1:1001:CYC:CMA	2.18	0.40
2:Q1:157:TYR:OH	2:U1:18:ARG:NH1	2.54	0.40
2:B2:38:SER:OG	2:B2:100:LEU:O	2.36	0.40
2:B2:73:PRO:CB	3:G2:58:ARG:HH21	1.90	0.40
3:G2:38:ARG:HH12	3:G2:101:GLY:HA2	1.86	0.40
3:G2:91:LEU:HA	3:G2:91:LEU:HD23	1.89	0.40
3:G2:150:THR:O	13:G2:201:CYC:CMD	2.52	0.40
2:H2:143:LEU:HA	2:H2:143:LEU:HD12	1.89	0.40
3:K2:38:ARG:HH22	3:K2:101:GLY:HA2	1.86	0.40
2:L2:13:ALA:HB2	2:L2:24:GLU:HG2	2.02	0.40
3:P2:60:LEU:CD1	3:P2:87:MET:HE1	2.51	0.40
3:P2:145:ASP:O	13:W2:201:CYC:CBB	2.70	0.40
3:R2:160:GLU:HA	3:R2:163:SER:HB3	2.03	0.40
3:X2:144:ASN:HB2	3:X2:158:ILE:HD13	2.03	0.40
3:Z2:64:GLN:OE1	3:Z2:127:SER:OG	2.32	0.40
2:D3:29:ARG:CG	13:E3:202:CYC:HBB2	2.52	0.40
3:G3:20:LEU:HD23	3:G3:20:LEU:HA	1.92	0.40
3:G3:82:ALA:HB1	13:G3:201:CYC:C2D	2.52	0.40
2:H3:38:SER:OG	2:H3:100:LEU:O	2.36	0.40
3:M3:145:ASP:HA	3:M3:146:PRO:HD3	1.44	0.40
2:D4:63:LYS:HG2	2:D4:132:GLU:HG3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D4:150:GLU:CD	2:H4:22:ASN:ND2	2.79	0.40
2:F4:10:ILE:HG23	3:G4:96:TYR:CG	2.57	0.40
2:F4:34:ARG:HD2	2:F4:34:ARG:HA	1.85	0.40
2:F4:43:ARG:O	2:F4:47:SER:OG	2.32	0.40
3:I4:7:THR:HA	3:I4:10:VAL:HB	2.02	0.40
2:J4:146:GLN:CD	2:J4:146:GLN:N	2.73	0.40
4:N4:182:GLN:HB2	4:N4:189:ARG:NH2	2.36	0.40
2:Q4:34:ARG:HA	2:Q4:34:ARG:HD2	1.84	0.40
2:U4:34:ARG:HA	2:U4:34:ARG:HD2	1.85	0.40
3:X4:128:VAL:HG22	13:X4:201:CYC:HMC1	2.01	0.40
3:X4:137:ASP:OD2	3:X4:137:ASP:N	2.50	0.40
13:A5:304:CYC:HHA	13:A5:304:CYC:HAD2	1.91	0.40
2:B5:32:TYR:HD1	3:C5:32:VAL:HA	1.87	0.40
3:C5:30:ASN:O	3:C5:34:GLU:N	2.47	0.40
3:C5:152:GLY:HA3	13:C5:201:CYC:HMD1	2.03	0.40
13:G5:201:CYC:CBD	13:G5:201:CYC:CHA	2.86	0.40
2:H5:39:LEU:O	2:H5:42:ALA:N	2.53	0.40
3:K5:38:ARG:HH12	3:K5:101:GLY:HA2	1.86	0.40
3:T5:111:LEU:HD13	3:T5:111:LEU:HA	1.90	0.40
3:V5:145:ASP:HA	3:V5:146:PRO:HD3	1.95	0.40
3:Z5:30:ASN:O	3:Z5:34:GLU:N	2.48	0.40
5:A6:103:ASN:HD21	3:C6:112:ASN:HD21	1.69	0.40
3:E6:43:ASN:HD21	2:H6:153:THR:HG21	1.86	0.40
3:E6:47:SER:C	2:H6:160:ASN:HD21	2.27	0.40
3:E6:85:ARG:HH22	13:E6:201:CYC:CBA	2.35	0.40
3:M6:160:GLU:HA	3:M6:163:SER:HB3	2.03	0.40
4:N6:106:ARG:NE	4:N6:138:GLU:OE2	2.39	0.40
2:O6:129:TRP:CD2	13:O6:1001:CYC:HMC3	2.55	0.40
2:Q6:93:LEU:HA	2:Q6:93:LEU:HD23	1.90	0.40
3:R6:121:LEU:CD1	13:R6:1001:CYC:C2A	2.92	0.40
2:S6:5:PRO:CD	2:Y6:23:THR:OG1	2.69	0.40
2:W6:31:ARG:NH2	2:W6:35:ALA:HB1	2.27	0.40
3:Z6:44:ARG:HH21	3:Z6:149:ILE:CG1	2.35	0.40
6:A7:118:ALA:HB3	6:A7:124:GLU:CG	2.51	0.40
2:B7:93:LEU:HD23	2:B7:93:LEU:HA	1.90	0.40
3:C7:109:ARG:N	3:C7:109:ARG:HD3	2.37	0.40
2:F7:103:GLY:O	2:L7:26:GLN:NE2	2.55	0.40
3:M7:160:GLU:HA	3:M7:163:SER:HB3	2.04	0.40
7:C8:110:ILE:HG13	10:09:546:GLN:OE1	2.22	0.40
7:L8:20:PRO:HG3	7:Z9:101:VAL:HG22	2.02	0.40
8:M8:127:THR:HG23	13:M8:1001:CYC:H3C	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O8:14:GLU:OE1	7:O8:16:ARG:NE	2.41	0.40
8:P8:123:PRO:HG2	13:P8:1001:CYC:HMC1	2.04	0.40
7:Z8:119:LEU:HD23	7:Z8:119:LEU:HA	1.90	0.40
7:l8:125:ALA:HB3	13:l8:1001:CYC:CMC	2.37	0.40
7:r8:50:LEU:HD13	7:r8:140:LEU:HD12	2.03	0.40
10:09:761:ILE:HD12	10:09:761:ILE:HA	1.89	0.40
10:19:247:ARG:HD2	10:19:410:GLU:HB2	2.02	0.40
10:19:269:ARG:HH11	7:k9:16:ARG:HB3	1.86	0.40
10:19:554:LEU:HD11	7:b9:15:ALA:HB2	2.02	0.40
10:19:999:LEU:HD21	10:19:1016:GLU:HB3	2.04	0.40
8:B9:109:VAL:HG22	13:B9:1001:CYC:HBB1	2.02	0.40
8:U9:113:LEU:HD12	8:U9:113:LEU:HA	1.84	0.40
8:W9:45:ILE:HD13	8:W9:150:MET:HE2	2.03	0.40
7:X9:123:ILE:H	7:X9:123:ILE:HG13	1.58	0.40
7:f9:118:SER:O	7:f9:118:SER:OG	2.35	0.40
8:j9:75:THR:HG23	7:k9:107:ILE:HG23	2.02	0.40
8:x9:88:TYR:HD1	8:x9:88:TYR:HA	1.75	0.40
3:EA:150:THR:O	13:EA:201:CYC:CMD	2.62	0.40
3:GA:151:LYS:H	3:GA:151:LYS:HG3	1.74	0.40
4:NA:24:ARG:HA	4:NA:24:ARG:HD3	1.93	0.40
4:NA:235:ARG:O	4:NA:263:TYR:HB2	2.21	0.40
3:PA:30:ASN:O	3:PA:34:GLU:N	2.47	0.40
2:WA:41:ALA:HB1	2:WA:151:ALA:HB2	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A1	211/247 (85%)	189 (90%)	21 (10%)	1 (0%)	25 60
1	A4	211/247 (85%)	189 (90%)	21 (10%)	1 (0%)	25 60

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	B2	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	B3	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	B4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	B5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	B6	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	B7	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	BA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	D1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	D2	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	D3	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	D4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	D5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	D6	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	D7	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	DA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	F1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	F2	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	F3	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	F4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	F5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	F6	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	F7	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	FA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	H1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	H2	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	H3	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	H4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	H5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	H6	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	H7	160/163 (98%)	158 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	HA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	J1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	J2	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	J3	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	J4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	J5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	J6	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	J7	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	JA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	L1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	L2	160/163 (98%)	157 (98%)	2 (1%)	1 (1%)	22	57
2	L3	160/163 (98%)	157 (98%)	2 (1%)	1 (1%)	22	57
2	L4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	L5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	L6	160/163 (98%)	157 (98%)	2 (1%)	1 (1%)	22	57
2	L7	160/163 (98%)	157 (98%)	2 (1%)	1 (1%)	22	57
2	LA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	O1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	O2	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	O4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	O5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	O6	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	OA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	Q1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	Q2	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	Q4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	Q5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	Q6	160/163 (98%)	158 (99%)	2 (1%)	0	100	100
2	QA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	S1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	S2	160/163 (98%)	159 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	S4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	S5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	S6	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	SA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	U1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	U2	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	U4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	U5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	U6	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	UA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	W1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	W2	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	W4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	W5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	W6	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	WA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	Y1	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	Y2	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	Y4	160/163 (98%)	156 (98%)	4 (2%)	0	100	100
2	Y5	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	Y6	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
2	YA	160/163 (98%)	159 (99%)	1 (1%)	0	100	100
3	C1	170/173 (98%)	165 (97%)	5 (3%)	0	100	100
3	C2	170/173 (98%)	167 (98%)	2 (1%)	1 (1%)	22	57
3	C3	170/173 (98%)	167 (98%)	2 (1%)	1 (1%)	22	57
3	C4	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	C5	170/173 (98%)	168 (99%)	2 (1%)	0	100	100
3	C6	170/173 (98%)	167 (98%)	2 (1%)	1 (1%)	22	57
3	C7	170/173 (98%)	167 (98%)	2 (1%)	1 (1%)	22	57
3	CA	170/173 (98%)	168 (99%)	2 (1%)	0	100	100
3	E1	170/173 (98%)	166 (98%)	4 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	E2	171/173 (99%)	166 (97%)	4 (2%)	1 (1%)	22	57
3	E3	171/173 (99%)	166 (97%)	4 (2%)	1 (1%)	22	57
3	E4	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	E5	170/173 (98%)	169 (99%)	0	1 (1%)	22	57
3	E6	171/173 (99%)	166 (97%)	4 (2%)	1 (1%)	22	57
3	E7	171/173 (99%)	166 (97%)	4 (2%)	1 (1%)	22	57
3	EA	170/173 (98%)	169 (99%)	0	1 (1%)	22	57
3	G1	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	G2	171/173 (99%)	168 (98%)	3 (2%)	0	100	100
3	G3	171/173 (99%)	168 (98%)	3 (2%)	0	100	100
3	G4	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	G5	170/173 (98%)	168 (99%)	1 (1%)	1 (1%)	22	57
3	G6	171/173 (99%)	168 (98%)	3 (2%)	0	100	100
3	G7	171/173 (99%)	168 (98%)	3 (2%)	0	100	100
3	GA	170/173 (98%)	168 (99%)	1 (1%)	1 (1%)	22	57
3	I1	171/173 (99%)	165 (96%)	4 (2%)	2 (1%)	11	43
3	I2	171/173 (99%)	167 (98%)	3 (2%)	1 (1%)	22	57
3	I3	171/173 (99%)	167 (98%)	3 (2%)	1 (1%)	22	57
3	I4	171/173 (99%)	165 (96%)	4 (2%)	2 (1%)	11	43
3	I5	170/173 (98%)	169 (99%)	1 (1%)	0	100	100
3	I6	171/173 (99%)	167 (98%)	3 (2%)	1 (1%)	22	57
3	I7	171/173 (99%)	167 (98%)	3 (2%)	1 (1%)	22	57
3	IA	170/173 (98%)	169 (99%)	1 (1%)	0	100	100
3	K1	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	K2	170/173 (98%)	166 (98%)	3 (2%)	1 (1%)	22	57
3	K3	170/173 (98%)	166 (98%)	3 (2%)	1 (1%)	22	57
3	K4	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	K5	170/173 (98%)	169 (99%)	0	1 (1%)	22	57
3	K6	170/173 (98%)	166 (98%)	3 (2%)	1 (1%)	22	57
3	K7	170/173 (98%)	166 (98%)	3 (2%)	1 (1%)	22	57
3	KA	170/173 (98%)	169 (99%)	0	1 (1%)	22	57

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	M1	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	M2	170/173 (98%)	167 (98%)	3 (2%)	0	100	100
3	M3	170/173 (98%)	167 (98%)	3 (2%)	0	100	100
3	M4	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	M5	170/173 (98%)	169 (99%)	1 (1%)	0	100	100
3	M6	170/173 (98%)	167 (98%)	3 (2%)	0	100	100
3	M7	170/173 (98%)	167 (98%)	3 (2%)	0	100	100
3	MA	170/173 (98%)	169 (99%)	1 (1%)	0	100	100
3	P1	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	P2	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	P4	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	P5	170/173 (98%)	169 (99%)	0	1 (1%)	22	57
3	P6	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	PA	170/173 (98%)	169 (99%)	0	1 (1%)	22	57
3	R1	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	R2	170/173 (98%)	165 (97%)	4 (2%)	1 (1%)	22	57
3	R4	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	R5	170/173 (98%)	168 (99%)	1 (1%)	1 (1%)	22	57
3	R6	170/173 (98%)	165 (97%)	4 (2%)	1 (1%)	22	57
3	RA	170/173 (98%)	168 (99%)	1 (1%)	1 (1%)	22	57
3	T1	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	T2	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	T4	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	T5	170/173 (98%)	169 (99%)	0	1 (1%)	22	57
3	T6	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	TA	170/173 (98%)	169 (99%)	0	1 (1%)	22	57
3	V1	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	V2	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	V4	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	V5	170/173 (98%)	169 (99%)	0	1 (1%)	22	57
3	V6	170/173 (98%)	166 (98%)	4 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	VA	170/173 (98%)	169 (99%)	0	1 (1%)	22	57
3	X1	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	X2	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	X4	170/173 (98%)	165 (97%)	5 (3%)	0	100	100
3	X5	170/173 (98%)	169 (99%)	0	1 (1%)	22	57
3	X6	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	XA	170/173 (98%)	169 (99%)	0	1 (1%)	22	57
3	Z1	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	Z2	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	Z4	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	Z5	170/173 (98%)	170 (100%)	0	0	100	100
3	Z6	170/173 (98%)	166 (98%)	4 (2%)	0	100	100
3	ZA	170/173 (98%)	170 (100%)	0	0	100	100
4	N1	282/286 (99%)	257 (91%)	23 (8%)	2 (1%)	19	54
4	N2	282/286 (99%)	259 (92%)	23 (8%)	0	100	100
4	N3	55/286 (19%)	46 (84%)	9 (16%)	0	100	100
4	N4	282/286 (99%)	257 (91%)	23 (8%)	2 (1%)	19	54
4	N5	282/286 (99%)	257 (91%)	23 (8%)	2 (1%)	19	54
4	N6	282/286 (99%)	259 (92%)	23 (8%)	0	100	100
4	N7	55/286 (19%)	46 (84%)	9 (16%)	0	100	100
4	NA	282/286 (99%)	257 (91%)	23 (8%)	2 (1%)	19	54
5	A2	247/253 (98%)	226 (92%)	18 (7%)	3 (1%)	11	43
5	A5	233/253 (92%)	218 (94%)	13 (6%)	2 (1%)	14	48
5	A6	247/253 (98%)	227 (92%)	18 (7%)	2 (1%)	16	51
5	AA	233/253 (92%)	218 (94%)	12 (5%)	3 (1%)	10	41
6	A3	134/279 (48%)	131 (98%)	1 (1%)	2 (2%)	8	39
6	A7	134/279 (48%)	131 (98%)	1 (1%)	2 (2%)	8	39
7	A8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	A9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	C8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	C9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	E8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	E9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	G9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	H8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	I9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	J8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	K9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	L8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	N9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	O8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	P9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	Q8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	R9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	S8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	T9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	V8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	X8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	X9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	Z8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	Z9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	b9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	c8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	d9	157/161 (98%)	154 (98%)	3 (2%)	0	100	100
7	e8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	f9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	g8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	i9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	j8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	k9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	l8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	n8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	o9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	p8	157/161 (98%)	154 (98%)	3 (2%)	0	100	100
7	q9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	r8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	s9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	t8	157/161 (98%)	155 (99%)	2 (1%)	0	100	100
7	u9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	w9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
7	y9	157/161 (98%)	153 (98%)	4 (2%)	0	100	100
8	B8	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	B9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	D8	158/162 (98%)	155 (98%)	3 (2%)	0	100	100
8	D9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	F8	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	F9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	H9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	I8	158/162 (98%)	155 (98%)	3 (2%)	0	100	100
8	J9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	K8	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	L9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	M8	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	M9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	O9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	P8	157/162 (97%)	154 (98%)	3 (2%)	0	100	100
8	R8	158/162 (98%)	155 (98%)	3 (2%)	0	100	100
8	S9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	T8	158/162 (98%)	155 (98%)	3 (2%)	0	100	100
8	U9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	W8	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	W9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	Y8	158/162 (98%)	155 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	Y9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	a8	158/162 (98%)	155 (98%)	3 (2%)	0	100	100
8	a9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	c9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	d8	158/162 (98%)	155 (98%)	3 (2%)	0	100	100
8	e9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	f8	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	h8	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	h9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	j9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	k8	158/162 (98%)	155 (98%)	3 (2%)	0	100	100
8	l9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	m8	158/162 (98%)	155 (98%)	3 (2%)	0	100	100
8	n9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	o8	157/162 (97%)	154 (98%)	3 (2%)	0	100	100
8	p9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	q8	157/162 (97%)	154 (98%)	3 (2%)	0	100	100
8	r9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	s8	158/162 (98%)	155 (98%)	3 (2%)	0	100	100
8	t9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	u8	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	v9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	x9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
8	z9	158/162 (98%)	154 (98%)	4 (2%)	0	100	100
9	29	63/68 (93%)	57 (90%)	6 (10%)	0	100	100
9	39	63/68 (93%)	57 (90%)	6 (10%)	0	100	100
9	49	63/68 (93%)	57 (90%)	6 (10%)	0	100	100
9	G8	63/68 (93%)	59 (94%)	4 (6%)	0	100	100
9	N8	63/68 (93%)	59 (94%)	4 (6%)	0	100	100
9	U8	63/68 (93%)	59 (94%)	4 (6%)	0	100	100
9	b8	63/68 (93%)	59 (94%)	4 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
9	i8	63/68 (93%)	62 (98%)	1 (2%)	0	100 100
10	09	1043/1132 (92%)	989 (95%)	51 (5%)	3 (0%)	37 70
10	19	1037/1132 (92%)	939 (90%)	93 (9%)	5 (0%)	25 60
11	Q9	166/169 (98%)	160 (96%)	6 (4%)	0	100 100
11	g9	167/169 (99%)	160 (96%)	7 (4%)	0	100 100
12	V9	158/161 (98%)	150 (95%)	8 (5%)	0	100 100
12	m9	158/161 (98%)	150 (95%)	8 (5%)	0	100 100
All	All	48592/50580 (96%)	47338 (97%)	1180 (2%)	74 (0%)	45 75

All (74) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A1	55	SER
3	I1	155	SER
4	N1	230	VAL
5	A2	20	PHE
5	A2	241	ILE
1	A4	55	SER
3	I4	155	SER
4	N4	230	VAL
5	A5	209	LYS
4	N5	23	LEU
5	A6	20	PHE
10	09	699	LEU
5	AA	39	SER
4	NA	23	LEU
4	N1	69	VAL
3	E2	146	PRO
3	E3	146	PRO
4	N4	69	VAL
5	A5	61	ILE
3	V5	146	PRO
3	E6	146	PRO
3	E7	146	PRO
5	AA	61	ILE
3	VA	146	PRO
5	A2	61	ILE
3	X5	146	PRO
5	A6	61	ILE
10	19	277	THR

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Mol	Chain	Res	Type
10	19	463	GLN
10	19	533	ALA
3	XA	146	PRO
3	K2	149	ILE
3	R2	146	PRO
6	A3	60	ILE
3	K3	149	ILE
3	K5	146	PRO
3	T5	146	PRO
3	K6	149	ILE
3	R6	146	PRO
6	A7	60	ILE
3	K7	149	ILE
10	19	955	LYS
3	KA	146	PRO
3	TA	146	PRO
3	C2	146	PRO
2	L2	35	ALA
6	A3	10	PRO
3	C3	146	PRO
2	L3	35	ALA
3	G5	146	PRO
3	P5	146	PRO
3	R5	146	PRO
3	C6	146	PRO
2	L6	35	ALA
6	A7	10	PRO
3	C7	146	PRO
2	L7	35	ALA
10	09	15	GLN
5	AA	210	GLN
3	GA	146	PRO
3	PA	146	PRO
3	RA	146	PRO
3	I1	146	PRO
3	I2	146	PRO
3	I3	146	PRO
3	I4	146	PRO
3	I6	146	PRO
3	I7	146	PRO
10	19	1113	VAL
3	E5	146	PRO

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Mol	Chain	Res	Type
3	EA	146	PRO
4	NA	158	VAL
4	N5	158	VAL
10	09	475	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A1	191/223 (86%)	188 (98%)	3 (2%)	58 73
1	A4	191/223 (86%)	188 (98%)	3 (2%)	58 73
2	B1	122/123 (99%)	108 (88%)	14 (12%)	4 20
2	B2	122/123 (99%)	108 (88%)	14 (12%)	4 20
2	B3	122/123 (99%)	108 (88%)	14 (12%)	4 20
2	B4	122/123 (99%)	107 (88%)	15 (12%)	4 19
2	B5	122/123 (99%)	107 (88%)	15 (12%)	4 19
2	B6	122/123 (99%)	108 (88%)	14 (12%)	4 20
2	B7	122/123 (99%)	108 (88%)	14 (12%)	4 20
2	BA	122/123 (99%)	107 (88%)	15 (12%)	4 19
2	D1	122/123 (99%)	107 (88%)	15 (12%)	4 19
2	D2	122/123 (99%)	109 (89%)	13 (11%)	5 22
2	D3	122/123 (99%)	109 (89%)	13 (11%)	5 22
2	D4	122/123 (99%)	107 (88%)	15 (12%)	4 19
2	D5	122/123 (99%)	108 (88%)	14 (12%)	4 20
2	D6	122/123 (99%)	109 (89%)	13 (11%)	5 22
2	D7	122/123 (99%)	109 (89%)	13 (11%)	5 22
2	DA	122/123 (99%)	108 (88%)	14 (12%)	4 20
2	F1	122/123 (99%)	107 (88%)	15 (12%)	4 19
2	F2	122/123 (99%)	109 (89%)	13 (11%)	5 22

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	F3	122/123 (99%)	109 (89%)	13 (11%)	5	22
2	F4	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	F5	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	F6	122/123 (99%)	109 (89%)	13 (11%)	5	22
2	F7	122/123 (99%)	109 (89%)	13 (11%)	5	22
2	FA	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	H1	122/123 (99%)	106 (87%)	16 (13%)	3	18
2	H2	122/123 (99%)	106 (87%)	16 (13%)	3	18
2	H3	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	H4	122/123 (99%)	106 (87%)	16 (13%)	3	18
2	H5	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	H6	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	H7	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	HA	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	J1	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	J2	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	J3	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	J4	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	J5	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	J6	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	J7	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	JA	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	L1	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	L2	122/123 (99%)	109 (89%)	13 (11%)	5	22
2	L3	122/123 (99%)	109 (89%)	13 (11%)	5	22
2	L4	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	L5	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	L6	122/123 (99%)	109 (89%)	13 (11%)	5	22
2	L7	122/123 (99%)	109 (89%)	13 (11%)	5	22
2	LA	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	O1	122/123 (99%)	107 (88%)	15 (12%)	4	19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	O2	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	O4	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	O5	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	O6	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	OA	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	Q1	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	Q2	122/123 (99%)	106 (87%)	16 (13%)	3	18
2	Q4	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	Q5	122/123 (99%)	106 (87%)	16 (13%)	3	18
2	Q6	122/123 (99%)	106 (87%)	16 (13%)	3	18
2	QA	122/123 (99%)	106 (87%)	16 (13%)	3	18
2	S1	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	S2	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	S4	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	S5	122/123 (99%)	106 (87%)	16 (13%)	3	18
2	S6	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	SA	122/123 (99%)	106 (87%)	16 (13%)	3	18
2	U1	122/123 (99%)	106 (87%)	16 (13%)	3	18
2	U2	122/123 (99%)	109 (89%)	13 (11%)	5	22
2	U4	122/123 (99%)	106 (87%)	16 (13%)	3	18
2	U5	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	U6	122/123 (99%)	109 (89%)	13 (11%)	5	22
2	UA	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	W1	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	W2	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	W4	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	W5	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	W6	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	WA	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	Y1	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	Y2	122/123 (99%)	108 (88%)	14 (12%)	4	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	Y4	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	Y5	122/123 (99%)	107 (88%)	15 (12%)	4	19
2	Y6	122/123 (99%)	108 (88%)	14 (12%)	4	20
2	YA	122/123 (99%)	107 (88%)	15 (12%)	4	19
3	C1	134/135 (99%)	122 (91%)	12 (9%)	8	28
3	C2	134/135 (99%)	115 (86%)	19 (14%)	2	16
3	C3	134/135 (99%)	115 (86%)	19 (14%)	2	16
3	C4	134/135 (99%)	122 (91%)	12 (9%)	8	28
3	C5	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	C6	134/135 (99%)	115 (86%)	19 (14%)	2	16
3	C7	134/135 (99%)	115 (86%)	19 (14%)	2	16
3	CA	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	E1	134/135 (99%)	121 (90%)	13 (10%)	6	25
3	E2	135/135 (100%)	113 (84%)	22 (16%)	2	12
3	E3	135/135 (100%)	113 (84%)	22 (16%)	2	12
3	E4	134/135 (99%)	121 (90%)	13 (10%)	6	25
3	E5	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	E6	135/135 (100%)	113 (84%)	22 (16%)	2	12
3	E7	135/135 (100%)	113 (84%)	22 (16%)	2	12
3	EA	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	G1	134/135 (99%)	120 (90%)	14 (10%)	5	23
3	G2	135/135 (100%)	115 (85%)	20 (15%)	2	15
3	G3	135/135 (100%)	115 (85%)	20 (15%)	2	15
3	G4	134/135 (99%)	120 (90%)	14 (10%)	5	23
3	G5	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	G6	135/135 (100%)	115 (85%)	20 (15%)	2	15
3	G7	135/135 (100%)	115 (85%)	20 (15%)	2	15
3	GA	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	I1	135/135 (100%)	123 (91%)	12 (9%)	8	29
3	I2	135/135 (100%)	113 (84%)	22 (16%)	2	12
3	I3	135/135 (100%)	113 (84%)	22 (16%)	2	12

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	I4	135/135 (100%)	123 (91%)	12 (9%)	8	29
3	I5	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	I6	135/135 (100%)	113 (84%)	22 (16%)	2	12
3	I7	135/135 (100%)	113 (84%)	22 (16%)	2	12
3	IA	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	K1	134/135 (99%)	121 (90%)	13 (10%)	6	25
3	K2	134/135 (99%)	111 (83%)	23 (17%)	1	11
3	K3	134/135 (99%)	111 (83%)	23 (17%)	1	11
3	K4	134/135 (99%)	121 (90%)	13 (10%)	6	25
3	K5	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	K6	134/135 (99%)	111 (83%)	23 (17%)	1	11
3	K7	134/135 (99%)	111 (83%)	23 (17%)	1	11
3	KA	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	M1	134/135 (99%)	122 (91%)	12 (9%)	8	28
3	M2	134/135 (99%)	115 (86%)	19 (14%)	2	16
3	M3	134/135 (99%)	115 (86%)	19 (14%)	2	16
3	M4	134/135 (99%)	122 (91%)	12 (9%)	8	28
3	M5	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	M6	134/135 (99%)	116 (87%)	18 (13%)	3	17
3	M7	134/135 (99%)	116 (87%)	18 (13%)	3	17
3	MA	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	P1	134/135 (99%)	122 (91%)	12 (9%)	8	28
3	P2	134/135 (99%)	112 (84%)	22 (16%)	2	12
3	P4	134/135 (99%)	122 (91%)	12 (9%)	8	28
3	P5	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	P6	134/135 (99%)	112 (84%)	22 (16%)	2	12
3	PA	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	R1	134/135 (99%)	123 (92%)	11 (8%)	9	32
3	R2	134/135 (99%)	112 (84%)	22 (16%)	2	12
3	R4	134/135 (99%)	123 (92%)	11 (8%)	9	32
3	R5	134/135 (99%)	114 (85%)	20 (15%)	2	14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	R6	134/135 (99%)	112 (84%)	22 (16%)	2	12
3	RA	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	T1	134/135 (99%)	123 (92%)	11 (8%)	9	32
3	T2	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	T4	134/135 (99%)	123 (92%)	11 (8%)	9	32
3	T5	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	T6	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	TA	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	V1	134/135 (99%)	122 (91%)	12 (9%)	8	28
3	V2	134/135 (99%)	116 (87%)	18 (13%)	3	17
3	V4	134/135 (99%)	122 (91%)	12 (9%)	8	28
3	V5	134/135 (99%)	115 (86%)	19 (14%)	2	16
3	V6	134/135 (99%)	115 (86%)	19 (14%)	2	16
3	VA	134/135 (99%)	115 (86%)	19 (14%)	2	16
3	X1	134/135 (99%)	123 (92%)	11 (8%)	9	32
3	X2	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	X4	134/135 (99%)	123 (92%)	11 (8%)	9	32
3	X5	134/135 (99%)	112 (84%)	22 (16%)	2	12
3	X6	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	XA	134/135 (99%)	113 (84%)	21 (16%)	2	13
3	Z1	134/135 (99%)	123 (92%)	11 (8%)	9	32
3	Z2	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	Z4	134/135 (99%)	123 (92%)	11 (8%)	9	32
3	Z5	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	Z6	134/135 (99%)	114 (85%)	20 (15%)	2	14
3	ZA	134/135 (99%)	114 (85%)	20 (15%)	2	14
4	N1	242/243 (100%)	240 (99%)	2 (1%)	79	84
4	N2	242/243 (100%)	239 (99%)	3 (1%)	67	78
4	N3	50/243 (21%)	49 (98%)	1 (2%)	50	68
4	N4	242/243 (100%)	240 (99%)	2 (1%)	79	84
4	N5	242/243 (100%)	241 (100%)	1 (0%)	89	91

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	N6	242/243 (100%)	239 (99%)	3 (1%)	67	78
4	N7	50/243 (21%)	49 (98%)	1 (2%)	50	68
4	NA	242/243 (100%)	241 (100%)	1 (0%)	89	91
5	A2	220/224 (98%)	217 (99%)	3 (1%)	62	75
5	A5	210/224 (94%)	204 (97%)	6 (3%)	37	59
5	A6	220/224 (98%)	218 (99%)	2 (1%)	75	83
5	AA	210/224 (94%)	206 (98%)	4 (2%)	52	70
6	A3	120/242 (50%)	113 (94%)	7 (6%)	17	42
6	A7	120/242 (50%)	113 (94%)	7 (6%)	17	42
7	A8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	A9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	C8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	C9	124/126 (98%)	112 (90%)	12 (10%)	6	25
7	E8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	E9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	G9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	H8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	I9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	J8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	K9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	L8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	N9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	O8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	P9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	Q8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	R9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	S8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	T9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	V8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	X8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	X9	124/126 (98%)	113 (91%)	11 (9%)	8	29

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	Z8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	Z9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	b9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	c8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	d9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	e8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	f9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	g8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	i9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	j8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	k9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	l8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	n8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	o9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	p8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	q9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	r8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	s9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	t8	124/126 (98%)	111 (90%)	13 (10%)	5	22
7	u9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	w9	124/126 (98%)	113 (91%)	11 (9%)	8	29
7	y9	124/126 (98%)	113 (91%)	11 (9%)	8	29
8	B8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	B9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	D8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	D9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	F8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	F9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	H9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	I8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	J9	123/124 (99%)	113 (92%)	10 (8%)	9	33

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	K8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	L9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	M8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	M9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	O9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	P8	122/124 (98%)	109 (89%)	13 (11%)	5	22
8	R8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	S9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	T8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	U9	123/124 (99%)	112 (91%)	11 (9%)	8	29
8	W8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	W9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	Y8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	Y9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	a8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	a9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	c9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	d8	123/124 (99%)	111 (90%)	12 (10%)	6	24
8	e9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	f8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	h8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	h9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	j9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	k8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	l9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	m8	123/124 (99%)	110 (89%)	13 (11%)	5	22
8	n9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	o8	122/124 (98%)	109 (89%)	13 (11%)	5	22
8	p9	123/124 (99%)	113 (92%)	10 (8%)	9	33
8	q8	122/124 (98%)	109 (89%)	13 (11%)	5	22
8	r9	123/124 (99%)	113 (92%)	10 (8%)	9	33

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
8	s8	123/124 (99%)	110 (89%)	13 (11%)	5 22
8	t9	123/124 (99%)	113 (92%)	10 (8%)	9 33
8	u8	123/124 (99%)	110 (89%)	13 (11%)	5 22
8	v9	123/124 (99%)	113 (92%)	10 (8%)	9 33
8	x9	123/124 (99%)	113 (92%)	10 (8%)	9 33
8	z9	123/124 (99%)	113 (92%)	10 (8%)	9 33
9	29	56/59 (95%)	51 (91%)	5 (9%)	8 29
9	39	56/59 (95%)	50 (89%)	6 (11%)	5 22
9	49	56/59 (95%)	49 (88%)	7 (12%)	3 18
9	G8	56/59 (95%)	52 (93%)	4 (7%)	12 36
9	N8	56/59 (95%)	52 (93%)	4 (7%)	12 36
9	U8	56/59 (95%)	52 (93%)	4 (7%)	12 36
9	b8	56/59 (95%)	53 (95%)	3 (5%)	18 44
9	i8	56/59 (95%)	52 (93%)	4 (7%)	12 36
10	09	888/954 (93%)	885 (100%)	3 (0%)	91 92
10	19	882/954 (92%)	880 (100%)	2 (0%)	92 94
11	Q9	135/136 (99%)	135 (100%)	0	100 100
11	g9	136/136 (100%)	135 (99%)	1 (1%)	81 86
12	V9	132/133 (99%)	123 (93%)	9 (7%)	13 38
12	m9	132/133 (99%)	123 (93%)	9 (7%)	13 38
All	All	38416/39608 (97%)	34512 (90%)	3904 (10%)	8 23

All (3904) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A1	6	LEU
1	A1	71	GLN
1	A1	129	ILE
2	B1	4	THR
2	B1	23	THR
2	B1	38	SER
2	B1	40	GLU
2	B1	47	SER
2	B1	54	ASP
2	B1	60	VAL

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Mol	Chain	Res	Type
2	B1	70	THR
2	B1	74	GLN
2	B1	79	SER
2	B1	89	VAL
2	B1	118	GLU
2	B1	126	SER
2	B1	156	ASP
3	C1	4	ASP
3	C1	5	VAL
3	C1	42	VAL
3	C1	47	SER
3	C1	68	ILE
3	C1	104	SER
3	C1	105	VAL
3	C1	108	ASP
3	C1	111	LEU
3	C1	116	GLU
3	C1	119	GLN
3	C1	142	ILE
2	D1	4	THR
2	D1	23	THR
2	D1	38	SER
2	D1	40	GLU
2	D1	47	SER
2	D1	50	GLN
2	D1	54	ASP
2	D1	60	VAL
2	D1	70	THR
2	D1	74	GLN
2	D1	79	SER
2	D1	89	VAL
2	D1	118	GLU
2	D1	126	SER
2	D1	156	ASP
3	E1	4	ASP
3	E1	5	VAL
3	E1	42	VAL
3	E1	47	SER
3	E1	68	ILE
3	E1	84	LEU
3	E1	104	SER
3	E1	105	VAL

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Mol	Chain	Res	Type
3	E1	108	ASP
3	E1	111	LEU
3	E1	116	GLU
3	E1	119	GLN
3	E1	142	ILE
2	F1	4	THR
2	F1	23	THR
2	F1	38	SER
2	F1	40	GLU
2	F1	47	SER
2	F1	50	GLN
2	F1	54	ASP
2	F1	60	VAL
2	F1	70	THR
2	F1	74	GLN
2	F1	79	SER
2	F1	89	VAL
2	F1	118	GLU
2	F1	126	SER
2	F1	156	ASP
3	G1	4	ASP
3	G1	5	VAL
3	G1	41	VAL
3	G1	47	SER
3	G1	68	ILE
3	G1	84	LEU
3	G1	86	ASP
3	G1	104	SER
3	G1	105	VAL
3	G1	108	ASP
3	G1	111	LEU
3	G1	116	GLU
3	G1	119	GLN
3	G1	142	ILE
2	H1	4	THR
2	H1	23	THR
2	H1	38	SER
2	H1	40	GLU
2	H1	47	SER
2	H1	50	GLN
2	H1	54	ASP
2	H1	60	VAL

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Mol	Chain	Res	Type
2	H1	70	THR
2	H1	74	GLN
2	H1	79	SER
2	H1	89	VAL
2	H1	118	GLU
2	H1	126	SER
2	H1	146	GLN
2	H1	156	ASP
3	I1	4	ASP
3	I1	5	VAL
3	I1	42	VAL
3	I1	47	SER
3	I1	68	ILE
3	I1	104	SER
3	I1	105	VAL
3	I1	108	ASP
3	I1	111	LEU
3	I1	116	GLU
3	I1	119	GLN
3	I1	142	ILE
2	J1	4	THR
2	J1	23	THR
2	J1	38	SER
2	J1	40	GLU
2	J1	47	SER
2	J1	50	GLN
2	J1	54	ASP
2	J1	60	VAL
2	J1	70	THR
2	J1	74	GLN
2	J1	79	SER
2	J1	89	VAL
2	J1	118	GLU
2	J1	126	SER
2	J1	156	ASP
3	K1	4	ASP
3	K1	5	VAL
3	K1	42	VAL
3	K1	47	SER
3	K1	68	ILE
3	K1	104	SER
3	K1	105	VAL

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Mol	Chain	Res	Type
3	K1	108	ASP
3	K1	111	LEU
3	K1	116	GLU
3	K1	119	GLN
3	K1	121	LEU
3	K1	142	ILE
2	L1	4	THR
2	L1	23	THR
2	L1	40	GLU
2	L1	47	SER
2	L1	50	GLN
2	L1	54	ASP
2	L1	60	VAL
2	L1	70	THR
2	L1	74	GLN
2	L1	79	SER
2	L1	89	VAL
2	L1	118	GLU
2	L1	126	SER
2	L1	156	ASP
3	M1	4	ASP
3	M1	5	VAL
3	M1	42	VAL
3	M1	47	SER
3	M1	68	ILE
3	M1	104	SER
3	M1	105	VAL
3	M1	108	ASP
3	M1	111	LEU
3	M1	116	GLU
3	M1	119	GLN
3	M1	142	ILE
4	N1	115	VAL
4	N1	283	VAL
2	O1	4	THR
2	O1	23	THR
2	O1	38	SER
2	O1	40	GLU
2	O1	47	SER
2	O1	50	GLN
2	O1	54	ASP
2	O1	60	VAL

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Mol	Chain	Res	Type
2	O1	70	THR
2	O1	74	GLN
2	O1	79	SER
2	O1	89	VAL
2	O1	118	GLU
2	O1	126	SER
2	O1	156	ASP
3	P1	4	ASP
3	P1	5	VAL
3	P1	42	VAL
3	P1	47	SER
3	P1	68	ILE
3	P1	104	SER
3	P1	105	VAL
3	P1	108	ASP
3	P1	111	LEU
3	P1	116	GLU
3	P1	119	GLN
3	P1	142	ILE
2	Q1	4	THR
2	Q1	23	THR
2	Q1	38	SER
2	Q1	40	GLU
2	Q1	47	SER
2	Q1	50	GLN
2	Q1	54	ASP
2	Q1	60	VAL
2	Q1	70	THR
2	Q1	74	GLN
2	Q1	79	SER
2	Q1	89	VAL
2	Q1	118	GLU
2	Q1	126	SER
2	Q1	156	ASP
3	R1	4	ASP
3	R1	5	VAL
3	R1	42	VAL
3	R1	47	SER
3	R1	104	SER
3	R1	105	VAL
3	R1	108	ASP
3	R1	111	LEU

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Mol	Chain	Res	Type
3	R1	116	GLU
3	R1	119	GLN
3	R1	142	ILE
2	S1	4	THR
2	S1	23	THR
2	S1	38	SER
2	S1	40	GLU
2	S1	47	SER
2	S1	50	GLN
2	S1	54	ASP
2	S1	60	VAL
2	S1	70	THR
2	S1	74	GLN
2	S1	79	SER
2	S1	89	VAL
2	S1	118	GLU
2	S1	126	SER
2	S1	156	ASP
3	T1	4	ASP
3	T1	5	VAL
3	T1	42	VAL
3	T1	47	SER
3	T1	104	SER
3	T1	105	VAL
3	T1	108	ASP
3	T1	111	LEU
3	T1	116	GLU
3	T1	119	GLN
3	T1	142	ILE
2	U1	4	THR
2	U1	23	THR
2	U1	38	SER
2	U1	40	GLU
2	U1	47	SER
2	U1	50	GLN
2	U1	54	ASP
2	U1	60	VAL
2	U1	70	THR
2	U1	74	GLN
2	U1	79	SER
2	U1	89	VAL
2	U1	118	GLU

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Mol	Chain	Res	Type
2	U1	126	SER
2	U1	146	GLN
2	U1	156	ASP
3	V1	4	ASP
3	V1	5	VAL
3	V1	41	VAL
3	V1	47	SER
3	V1	68	ILE
3	V1	104	SER
3	V1	105	VAL
3	V1	108	ASP
3	V1	111	LEU
3	V1	116	GLU
3	V1	119	GLN
3	V1	142	ILE
2	W1	4	THR
2	W1	23	THR
2	W1	38	SER
2	W1	40	GLU
2	W1	47	SER
2	W1	50	GLN
2	W1	54	ASP
2	W1	60	VAL
2	W1	70	THR
2	W1	74	GLN
2	W1	79	SER
2	W1	89	VAL
2	W1	118	GLU
2	W1	126	SER
2	W1	156	ASP
3	X1	4	ASP
3	X1	5	VAL
3	X1	42	VAL
3	X1	47	SER
3	X1	104	SER
3	X1	105	VAL
3	X1	108	ASP
3	X1	111	LEU
3	X1	116	GLU
3	X1	119	GLN
3	X1	142	ILE
2	Y1	4	THR

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Mol	Chain	Res	Type
2	Y1	23	THR
2	Y1	38	SER
2	Y1	40	GLU
2	Y1	47	SER
2	Y1	50	GLN
2	Y1	54	ASP
2	Y1	60	VAL
2	Y1	70	THR
2	Y1	74	GLN
2	Y1	79	SER
2	Y1	89	VAL
2	Y1	118	GLU
2	Y1	126	SER
2	Y1	156	ASP
3	Z1	4	ASP
3	Z1	5	VAL
3	Z1	42	VAL
3	Z1	47	SER
3	Z1	104	SER
3	Z1	105	VAL
3	Z1	108	ASP
3	Z1	111	LEU
3	Z1	116	GLU
3	Z1	119	GLN
3	Z1	142	ILE
5	A2	38	VAL
5	A2	199	ASP
5	A2	226	VAL
2	B2	2	VAL
2	B2	8	GLU
2	B2	33	GLU
2	B2	54	ASP
2	B2	67	THR
2	B2	70	THR
2	B2	89	VAL
2	B2	97	THR
2	B2	101	VAL
2	B2	118	GLU
2	B2	126	SER
2	B2	128	SER
2	B2	132	GLU
2	B2	163	SER

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Mol	Chain	Res	Type
3	C2	5	VAL
3	C2	7	THR
3	C2	11	SER
3	C2	15	SER
3	C2	21	SER
3	C2	23	GLU
3	C2	26	ASP
3	C2	32	VAL
3	C2	47	SER
3	C2	54	THR
3	C2	60	LEU
3	C2	66	GLN
3	C2	68	ILE
3	C2	76	THR
3	C2	94	VAL
3	C2	104	SER
3	C2	105	VAL
3	C2	109	ARG
3	C2	163	SER
2	D2	2	VAL
2	D2	8	GLU
2	D2	54	ASP
2	D2	67	THR
2	D2	70	THR
2	D2	89	VAL
2	D2	97	THR
2	D2	101	VAL
2	D2	118	GLU
2	D2	126	SER
2	D2	128	SER
2	D2	132	GLU
2	D2	163	SER
3	E2	5	VAL
3	E2	7	THR
3	E2	11	SER
3	E2	15	SER
3	E2	21	SER
3	E2	23	GLU
3	E2	26	ASP
3	E2	32	VAL
3	E2	47	SER
3	E2	54	THR

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Mol	Chain	Res	Type
3	E2	60	LEU
3	E2	66	GLN
3	E2	68	ILE
3	E2	76	THR
3	E2	94	VAL
3	E2	104	SER
3	E2	107	ASP
3	E2	108	ASP
3	E2	110	CYS
3	E2	150	THR
3	E2	154	CYS
3	E2	163	SER
2	F2	2	VAL
2	F2	8	GLU
2	F2	54	ASP
2	F2	67	THR
2	F2	70	THR
2	F2	89	VAL
2	F2	97	THR
2	F2	101	VAL
2	F2	118	GLU
2	F2	126	SER
2	F2	128	SER
2	F2	132	GLU
2	F2	163	SER
3	G2	5	VAL
3	G2	7	THR
3	G2	11	SER
3	G2	15	SER
3	G2	21	SER
3	G2	23	GLU
3	G2	26	ASP
3	G2	42	VAL
3	G2	47	SER
3	G2	54	THR
3	G2	60	LEU
3	G2	66	GLN
3	G2	68	ILE
3	G2	76	THR
3	G2	86	ASP
3	G2	94	VAL
3	G2	104	SER

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Mol	Chain	Res	Type
3	G2	107	ASP
3	G2	108	ASP
3	G2	110	CYS
2	H2	2	VAL
2	H2	8	GLU
2	H2	31	ARG
2	H2	32	TYR
2	H2	33	GLU
2	H2	54	ASP
2	H2	67	THR
2	H2	70	THR
2	H2	89	VAL
2	H2	97	THR
2	H2	101	VAL
2	H2	118	GLU
2	H2	126	SER
2	H2	128	SER
2	H2	132	GLU
2	H2	163	SER
3	I2	5	VAL
3	I2	7	THR
3	I2	11	SER
3	I2	15	SER
3	I2	21	SER
3	I2	23	GLU
3	I2	26	ASP
3	I2	32	VAL
3	I2	42	VAL
3	I2	47	SER
3	I2	54	THR
3	I2	60	LEU
3	I2	66	GLN
3	I2	68	ILE
3	I2	76	THR
3	I2	94	VAL
3	I2	104	SER
3	I2	107	ASP
3	I2	108	ASP
3	I2	110	CYS
3	I2	149	ILE
3	I2	163	SER
2	J2	2	VAL

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Mol	Chain	Res	Type
2	J2	8	GLU
2	J2	31	ARG
2	J2	54	ASP
2	J2	67	THR
2	J2	70	THR
2	J2	89	VAL
2	J2	97	THR
2	J2	101	VAL
2	J2	118	GLU
2	J2	126	SER
2	J2	128	SER
2	J2	132	GLU
2	J2	163	SER
3	K2	5	VAL
3	K2	7	THR
3	K2	11	SER
3	K2	15	SER
3	K2	21	SER
3	K2	23	GLU
3	K2	26	ASP
3	K2	32	VAL
3	K2	38	ARG
3	K2	47	SER
3	K2	54	THR
3	K2	60	LEU
3	K2	66	GLN
3	K2	68	ILE
3	K2	76	THR
3	K2	94	VAL
3	K2	104	SER
3	K2	107	ASP
3	K2	108	ASP
3	K2	110	CYS
3	K2	121	LEU
3	K2	149	ILE
3	K2	163	SER
2	L2	2	VAL
2	L2	8	GLU
2	L2	54	ASP
2	L2	67	THR
2	L2	70	THR
2	L2	89	VAL

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Mol	Chain	Res	Type
2	L2	97	THR
2	L2	101	VAL
2	L2	118	GLU
2	L2	126	SER
2	L2	128	SER
2	L2	132	GLU
2	L2	163	SER
3	M2	5	VAL
3	M2	7	THR
3	M2	11	SER
3	M2	15	SER
3	M2	21	SER
3	M2	23	GLU
3	M2	26	ASP
3	M2	32	VAL
3	M2	47	SER
3	M2	54	THR
3	M2	60	LEU
3	M2	66	GLN
3	M2	76	THR
3	M2	94	VAL
3	M2	104	SER
3	M2	107	ASP
3	M2	108	ASP
3	M2	110	CYS
3	M2	163	SER
4	N2	157	GLN
4	N2	160	GLN
4	N2	230	VAL
2	O2	2	VAL
2	O2	8	GLU
2	O2	24	GLU
2	O2	33	GLU
2	O2	54	ASP
2	O2	67	THR
2	O2	70	THR
2	O2	89	VAL
2	O2	97	THR
2	O2	101	VAL
2	O2	118	GLU
2	O2	126	SER
2	O2	128	SER

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Mol	Chain	Res	Type
2	O2	132	GLU
2	O2	163	SER
3	P2	5	VAL
3	P2	7	THR
3	P2	11	SER
3	P2	15	SER
3	P2	21	SER
3	P2	23	GLU
3	P2	26	ASP
3	P2	32	VAL
3	P2	47	SER
3	P2	54	THR
3	P2	60	LEU
3	P2	66	GLN
3	P2	68	ILE
3	P2	76	THR
3	P2	83	CYS
3	P2	86	ASP
3	P2	94	VAL
3	P2	104	SER
3	P2	107	ASP
3	P2	108	ASP
3	P2	110	CYS
3	P2	163	SER
2	Q2	2	VAL
2	Q2	8	GLU
2	Q2	23	THR
2	Q2	33	GLU
2	Q2	54	ASP
2	Q2	67	THR
2	Q2	70	THR
2	Q2	89	VAL
2	Q2	97	THR
2	Q2	101	VAL
2	Q2	118	GLU
2	Q2	126	SER
2	Q2	128	SER
2	Q2	132	GLU
2	Q2	150	GLU
2	Q2	163	SER
3	R2	5	VAL
3	R2	7	THR

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Mol	Chain	Res	Type
3	R2	11	SER
3	R2	15	SER
3	R2	21	SER
3	R2	23	GLU
3	R2	26	ASP
3	R2	32	VAL
3	R2	47	SER
3	R2	54	THR
3	R2	60	LEU
3	R2	66	GLN
3	R2	68	ILE
3	R2	76	THR
3	R2	94	VAL
3	R2	104	SER
3	R2	107	ASP
3	R2	108	ASP
3	R2	110	CYS
3	R2	149	ILE
3	R2	150	THR
3	R2	163	SER
2	S2	2	VAL
2	S2	8	GLU
2	S2	29	ARG
2	S2	33	GLU
2	S2	54	ASP
2	S2	67	THR
2	S2	70	THR
2	S2	89	VAL
2	S2	97	THR
2	S2	101	VAL
2	S2	118	GLU
2	S2	126	SER
2	S2	128	SER
2	S2	132	GLU
2	S2	163	SER
3	T2	5	VAL
3	T2	7	THR
3	T2	11	SER
3	T2	15	SER
3	T2	21	SER
3	T2	23	GLU
3	T2	26	ASP

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Mol	Chain	Res	Type
3	T2	32	VAL
3	T2	47	SER
3	T2	54	THR
3	T2	60	LEU
3	T2	66	GLN
3	T2	76	THR
3	T2	94	VAL
3	T2	104	SER
3	T2	107	ASP
3	T2	108	ASP
3	T2	110	CYS
3	T2	153	ASP
3	T2	163	SER
2	U2	2	VAL
2	U2	8	GLU
2	U2	54	ASP
2	U2	67	THR
2	U2	70	THR
2	U2	89	VAL
2	U2	97	THR
2	U2	101	VAL
2	U2	118	GLU
2	U2	126	SER
2	U2	128	SER
2	U2	132	GLU
2	U2	163	SER
3	V2	5	VAL
3	V2	7	THR
3	V2	11	SER
3	V2	15	SER
3	V2	21	SER
3	V2	23	GLU
3	V2	26	ASP
3	V2	47	SER
3	V2	54	THR
3	V2	60	LEU
3	V2	66	GLN
3	V2	68	ILE
3	V2	94	VAL
3	V2	104	SER
3	V2	107	ASP
3	V2	108	ASP

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Mol	Chain	Res	Type
3	V2	110	CYS
3	V2	163	SER
2	W2	2	VAL
2	W2	8	GLU
2	W2	29	ARG
2	W2	33	GLU
2	W2	54	ASP
2	W2	67	THR
2	W2	70	THR
2	W2	89	VAL
2	W2	97	THR
2	W2	101	VAL
2	W2	118	GLU
2	W2	126	SER
2	W2	128	SER
2	W2	132	GLU
2	W2	163	SER
3	X2	5	VAL
3	X2	7	THR
3	X2	11	SER
3	X2	15	SER
3	X2	21	SER
3	X2	23	GLU
3	X2	26	ASP
3	X2	32	VAL
3	X2	36	ASN
3	X2	47	SER
3	X2	54	THR
3	X2	60	LEU
3	X2	66	GLN
3	X2	68	ILE
3	X2	76	THR
3	X2	94	VAL
3	X2	104	SER
3	X2	107	ASP
3	X2	108	ASP
3	X2	110	CYS
3	X2	163	SER
2	Y2	2	VAL
2	Y2	8	GLU
2	Y2	33	GLU
2	Y2	54	ASP

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Mol	Chain	Res	Type
2	Y2	67	THR
2	Y2	70	THR
2	Y2	89	VAL
2	Y2	97	THR
2	Y2	101	VAL
2	Y2	118	GLU
2	Y2	126	SER
2	Y2	128	SER
2	Y2	132	GLU
2	Y2	163	SER
3	Z2	5	VAL
3	Z2	7	THR
3	Z2	11	SER
3	Z2	15	SER
3	Z2	21	SER
3	Z2	23	GLU
3	Z2	26	ASP
3	Z2	32	VAL
3	Z2	47	SER
3	Z2	54	THR
3	Z2	60	LEU
3	Z2	66	GLN
3	Z2	68	ILE
3	Z2	76	THR
3	Z2	94	VAL
3	Z2	104	SER
3	Z2	107	ASP
3	Z2	108	ASP
3	Z2	110	CYS
3	Z2	163	SER
6	A3	60	ILE
6	A3	64	ARG
6	A3	83	ILE
6	A3	91	VAL
6	A3	98	ASP
6	A3	104	ARG
6	A3	116	ARG
2	B3	2	VAL
2	B3	8	GLU
2	B3	33	GLU
2	B3	54	ASP
2	B3	67	THR

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Mol	Chain	Res	Type
2	B3	70	THR
2	B3	89	VAL
2	B3	97	THR
2	B3	101	VAL
2	B3	118	GLU
2	B3	126	SER
2	B3	128	SER
2	B3	132	GLU
2	B3	163	SER
3	C3	5	VAL
3	C3	7	THR
3	C3	11	SER
3	C3	15	SER
3	C3	21	SER
3	C3	23	GLU
3	C3	26	ASP
3	C3	32	VAL
3	C3	47	SER
3	C3	54	THR
3	C3	60	LEU
3	C3	66	GLN
3	C3	68	ILE
3	C3	76	THR
3	C3	94	VAL
3	C3	104	SER
3	C3	105	VAL
3	C3	109	ARG
3	C3	163	SER
2	D3	2	VAL
2	D3	8	GLU
2	D3	54	ASP
2	D3	67	THR
2	D3	70	THR
2	D3	89	VAL
2	D3	97	THR
2	D3	101	VAL
2	D3	118	GLU
2	D3	126	SER
2	D3	128	SER
2	D3	132	GLU
2	D3	163	SER
3	E3	5	VAL

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Mol	Chain	Res	Type
3	E3	7	THR
3	E3	11	SER
3	E3	15	SER
3	E3	21	SER
3	E3	23	GLU
3	E3	26	ASP
3	E3	32	VAL
3	E3	47	SER
3	E3	54	THR
3	E3	60	LEU
3	E3	66	GLN
3	E3	68	ILE
3	E3	76	THR
3	E3	94	VAL
3	E3	104	SER
3	E3	107	ASP
3	E3	108	ASP
3	E3	110	CYS
3	E3	150	THR
3	E3	154	CYS
3	E3	163	SER
2	F3	2	VAL
2	F3	8	GLU
2	F3	54	ASP
2	F3	67	THR
2	F3	70	THR
2	F3	89	VAL
2	F3	97	THR
2	F3	101	VAL
2	F3	118	GLU
2	F3	126	SER
2	F3	128	SER
2	F3	132	GLU
2	F3	163	SER
3	G3	5	VAL
3	G3	7	THR
3	G3	11	SER
3	G3	15	SER
3	G3	21	SER
3	G3	23	GLU
3	G3	26	ASP
3	G3	42	VAL

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Mol	Chain	Res	Type
3	G3	47	SER
3	G3	54	THR
3	G3	60	LEU
3	G3	66	GLN
3	G3	68	ILE
3	G3	76	THR
3	G3	86	ASP
3	G3	94	VAL
3	G3	104	SER
3	G3	107	ASP
3	G3	108	ASP
3	G3	110	CYS
2	H3	2	VAL
2	H3	8	GLU
2	H3	32	TYR
2	H3	33	GLU
2	H3	54	ASP
2	H3	67	THR
2	H3	70	THR
2	H3	89	VAL
2	H3	97	THR
2	H3	101	VAL
2	H3	118	GLU
2	H3	126	SER
2	H3	128	SER
2	H3	132	GLU
2	H3	163	SER
3	I3	5	VAL
3	I3	7	THR
3	I3	11	SER
3	I3	15	SER
3	I3	21	SER
3	I3	23	GLU
3	I3	26	ASP
3	I3	32	VAL
3	I3	42	VAL
3	I3	47	SER
3	I3	54	THR
3	I3	60	LEU
3	I3	66	GLN
3	I3	68	ILE
3	I3	76	THR

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Mol	Chain	Res	Type
3	I3	94	VAL
3	I3	104	SER
3	I3	107	ASP
3	I3	108	ASP
3	I3	110	CYS
3	I3	149	ILE
3	I3	163	SER
2	J3	2	VAL
2	J3	8	GLU
2	J3	31	ARG
2	J3	54	ASP
2	J3	67	THR
2	J3	70	THR
2	J3	89	VAL
2	J3	97	THR
2	J3	101	VAL
2	J3	118	GLU
2	J3	126	SER
2	J3	128	SER
2	J3	132	GLU
2	J3	163	SER
3	K3	5	VAL
3	K3	7	THR
3	K3	11	SER
3	K3	15	SER
3	K3	21	SER
3	K3	23	GLU
3	K3	26	ASP
3	K3	32	VAL
3	K3	38	ARG
3	K3	47	SER
3	K3	54	THR
3	K3	60	LEU
3	K3	66	GLN
3	K3	68	ILE
3	K3	76	THR
3	K3	94	VAL
3	K3	104	SER
3	K3	107	ASP
3	K3	108	ASP
3	K3	110	CYS
3	K3	121	LEU

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Mol	Chain	Res	Type
3	K3	149	ILE
3	K3	163	SER
2	L3	2	VAL
2	L3	8	GLU
2	L3	54	ASP
2	L3	67	THR
2	L3	70	THR
2	L3	89	VAL
2	L3	97	THR
2	L3	101	VAL
2	L3	118	GLU
2	L3	126	SER
2	L3	128	SER
2	L3	132	GLU
2	L3	163	SER
3	M3	5	VAL
3	M3	7	THR
3	M3	11	SER
3	M3	15	SER
3	M3	21	SER
3	M3	23	GLU
3	M3	26	ASP
3	M3	32	VAL
3	M3	47	SER
3	M3	54	THR
3	M3	60	LEU
3	M3	66	GLN
3	M3	76	THR
3	M3	94	VAL
3	M3	104	SER
3	M3	107	ASP
3	M3	108	ASP
3	M3	110	CYS
3	M3	163	SER
4	N3	230	VAL
1	A4	6	LEU
1	A4	71	GLN
1	A4	129	ILE
2	B4	4	THR
2	B4	23	THR
2	B4	38	SER
2	B4	40	GLU

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Mol	Chain	Res	Type
2	B4	47	SER
2	B4	50	GLN
2	B4	54	ASP
2	B4	60	VAL
2	B4	70	THR
2	B4	74	GLN
2	B4	79	SER
2	B4	89	VAL
2	B4	118	GLU
2	B4	126	SER
2	B4	156	ASP
3	C4	4	ASP
3	C4	5	VAL
3	C4	42	VAL
3	C4	47	SER
3	C4	68	ILE
3	C4	104	SER
3	C4	105	VAL
3	C4	108	ASP
3	C4	111	LEU
3	C4	116	GLU
3	C4	119	GLN
3	C4	142	ILE
2	D4	4	THR
2	D4	23	THR
2	D4	38	SER
2	D4	40	GLU
2	D4	47	SER
2	D4	50	GLN
2	D4	54	ASP
2	D4	60	VAL
2	D4	70	THR
2	D4	74	GLN
2	D4	79	SER
2	D4	89	VAL
2	D4	118	GLU
2	D4	126	SER
2	D4	156	ASP
3	E4	4	ASP
3	E4	5	VAL
3	E4	42	VAL
3	E4	47	SER

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Mol	Chain	Res	Type
3	E4	68	ILE
3	E4	84	LEU
3	E4	104	SER
3	E4	105	VAL
3	E4	108	ASP
3	E4	111	LEU
3	E4	116	GLU
3	E4	119	GLN
3	E4	142	ILE
2	F4	4	THR
2	F4	23	THR
2	F4	38	SER
2	F4	40	GLU
2	F4	47	SER
2	F4	50	GLN
2	F4	54	ASP
2	F4	60	VAL
2	F4	70	THR
2	F4	74	GLN
2	F4	79	SER
2	F4	89	VAL
2	F4	118	GLU
2	F4	126	SER
2	F4	156	ASP
3	G4	4	ASP
3	G4	5	VAL
3	G4	41	VAL
3	G4	47	SER
3	G4	68	ILE
3	G4	84	LEU
3	G4	86	ASP
3	G4	104	SER
3	G4	105	VAL
3	G4	108	ASP
3	G4	111	LEU
3	G4	116	GLU
3	G4	119	GLN
3	G4	142	ILE
2	H4	4	THR
2	H4	23	THR
2	H4	38	SER
2	H4	40	GLU

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Mol	Chain	Res	Type
2	H4	47	SER
2	H4	50	GLN
2	H4	54	ASP
2	H4	60	VAL
2	H4	70	THR
2	H4	74	GLN
2	H4	79	SER
2	H4	89	VAL
2	H4	118	GLU
2	H4	126	SER
2	H4	146	GLN
2	H4	156	ASP
3	I4	4	ASP
3	I4	5	VAL
3	I4	42	VAL
3	I4	47	SER
3	I4	68	ILE
3	I4	104	SER
3	I4	105	VAL
3	I4	108	ASP
3	I4	111	LEU
3	I4	116	GLU
3	I4	119	GLN
3	I4	142	ILE
2	J4	4	THR
2	J4	23	THR
2	J4	38	SER
2	J4	40	GLU
2	J4	47	SER
2	J4	50	GLN
2	J4	54	ASP
2	J4	60	VAL
2	J4	70	THR
2	J4	74	GLN
2	J4	79	SER
2	J4	89	VAL
2	J4	118	GLU
2	J4	126	SER
2	J4	156	ASP
3	K4	4	ASP
3	K4	5	VAL
3	K4	42	VAL

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Mol	Chain	Res	Type
3	K4	47	SER
3	K4	68	ILE
3	K4	104	SER
3	K4	105	VAL
3	K4	108	ASP
3	K4	111	LEU
3	K4	116	GLU
3	K4	119	GLN
3	K4	121	LEU
3	K4	142	ILE
2	L4	4	THR
2	L4	23	THR
2	L4	40	GLU
2	L4	47	SER
2	L4	50	GLN
2	L4	54	ASP
2	L4	60	VAL
2	L4	70	THR
2	L4	74	GLN
2	L4	79	SER
2	L4	89	VAL
2	L4	118	GLU
2	L4	126	SER
2	L4	156	ASP
3	M4	4	ASP
3	M4	5	VAL
3	M4	42	VAL
3	M4	47	SER
3	M4	68	ILE
3	M4	104	SER
3	M4	105	VAL
3	M4	108	ASP
3	M4	111	LEU
3	M4	116	GLU
3	M4	119	GLN
3	M4	142	ILE
4	N4	115	VAL
4	N4	283	VAL
2	O4	4	THR
2	O4	23	THR
2	O4	38	SER
2	O4	40	GLU

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Mol	Chain	Res	Type
2	O4	47	SER
2	O4	50	GLN
2	O4	54	ASP
2	O4	60	VAL
2	O4	70	THR
2	O4	74	GLN
2	O4	79	SER
2	O4	89	VAL
2	O4	118	GLU
2	O4	126	SER
2	O4	156	ASP
3	P4	4	ASP
3	P4	5	VAL
3	P4	42	VAL
3	P4	47	SER
3	P4	68	ILE
3	P4	104	SER
3	P4	105	VAL
3	P4	108	ASP
3	P4	111	LEU
3	P4	116	GLU
3	P4	119	GLN
3	P4	142	ILE
2	Q4	4	THR
2	Q4	23	THR
2	Q4	38	SER
2	Q4	40	GLU
2	Q4	47	SER
2	Q4	50	GLN
2	Q4	54	ASP
2	Q4	60	VAL
2	Q4	70	THR
2	Q4	74	GLN
2	Q4	79	SER
2	Q4	89	VAL
2	Q4	118	GLU
2	Q4	126	SER
2	Q4	156	ASP
3	R4	4	ASP
3	R4	5	VAL
3	R4	42	VAL
3	R4	47	SER

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Mol	Chain	Res	Type
3	R4	104	SER
3	R4	105	VAL
3	R4	108	ASP
3	R4	111	LEU
3	R4	116	GLU
3	R4	119	GLN
3	R4	142	ILE
2	S4	4	THR
2	S4	23	THR
2	S4	38	SER
2	S4	40	GLU
2	S4	47	SER
2	S4	50	GLN
2	S4	54	ASP
2	S4	60	VAL
2	S4	70	THR
2	S4	74	GLN
2	S4	79	SER
2	S4	89	VAL
2	S4	118	GLU
2	S4	126	SER
2	S4	156	ASP
3	T4	4	ASP
3	T4	5	VAL
3	T4	42	VAL
3	T4	47	SER
3	T4	104	SER
3	T4	105	VAL
3	T4	108	ASP
3	T4	111	LEU
3	T4	116	GLU
3	T4	119	GLN
3	T4	142	ILE
2	U4	4	THR
2	U4	23	THR
2	U4	38	SER
2	U4	40	GLU
2	U4	47	SER
2	U4	50	GLN
2	U4	54	ASP
2	U4	60	VAL
2	U4	70	THR

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Mol	Chain	Res	Type
2	U4	74	GLN
2	U4	79	SER
2	U4	89	VAL
2	U4	118	GLU
2	U4	126	SER
2	U4	146	GLN
2	U4	156	ASP
3	V4	4	ASP
3	V4	5	VAL
3	V4	41	VAL
3	V4	47	SER
3	V4	68	ILE
3	V4	104	SER
3	V4	105	VAL
3	V4	108	ASP
3	V4	111	LEU
3	V4	116	GLU
3	V4	119	GLN
3	V4	142	ILE
2	W4	4	THR
2	W4	23	THR
2	W4	38	SER
2	W4	40	GLU
2	W4	47	SER
2	W4	50	GLN
2	W4	54	ASP
2	W4	60	VAL
2	W4	70	THR
2	W4	74	GLN
2	W4	79	SER
2	W4	89	VAL
2	W4	118	GLU
2	W4	126	SER
2	W4	156	ASP
3	X4	4	ASP
3	X4	5	VAL
3	X4	42	VAL
3	X4	47	SER
3	X4	104	SER
3	X4	105	VAL
3	X4	108	ASP
3	X4	111	LEU

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Mol	Chain	Res	Type
3	X4	116	GLU
3	X4	119	GLN
3	X4	142	ILE
2	Y4	4	THR
2	Y4	23	THR
2	Y4	38	SER
2	Y4	40	GLU
2	Y4	47	SER
2	Y4	50	GLN
2	Y4	54	ASP
2	Y4	60	VAL
2	Y4	70	THR
2	Y4	74	GLN
2	Y4	79	SER
2	Y4	89	VAL
2	Y4	118	GLU
2	Y4	126	SER
2	Y4	156	ASP
3	Z4	4	ASP
3	Z4	5	VAL
3	Z4	42	VAL
3	Z4	47	SER
3	Z4	104	SER
3	Z4	105	VAL
3	Z4	108	ASP
3	Z4	111	LEU
3	Z4	116	GLU
3	Z4	119	GLN
3	Z4	142	ILE
5	A5	37	ASP
5	A5	38	VAL
5	A5	131	ILE
5	A5	166	ARG
5	A5	174	LEU
5	A5	212	ARG
2	B5	2	VAL
2	B5	10	ILE
2	B5	18	ARG
2	B5	31	ARG
2	B5	40	GLU
2	B5	47	SER
2	B5	67	THR

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Mol	Chain	Res	Type
2	B5	70	THR
2	B5	79	SER
2	B5	97	THR
2	B5	101	VAL
2	B5	121	SER
2	B5	126	SER
2	B5	131	VAL
2	B5	143	LEU
3	C5	4	ASP
3	C5	18	GLU
3	C5	23	GLU
3	C5	39	LEU
3	C5	41	VAL
3	C5	42	VAL
3	C5	54	THR
3	C5	68	ILE
3	C5	87	MET
3	C5	88	GLU
3	C5	90	ILE
3	C5	102	ASP
3	C5	126	SER
3	C5	132	VAL
3	C5	133	GLN
3	C5	134	LYS
3	C5	137	ASP
3	C5	142	ILE
3	C5	149	ILE
3	C5	157	LEU
3	C5	161	VAL
2	D5	2	VAL
2	D5	10	ILE
2	D5	18	ARG
2	D5	40	GLU
2	D5	47	SER
2	D5	67	THR
2	D5	70	THR
2	D5	79	SER
2	D5	97	THR
2	D5	101	VAL
2	D5	121	SER
2	D5	126	SER
2	D5	131	VAL

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Mol	Chain	Res	Type
2	D5	143	LEU
3	E5	4	ASP
3	E5	18	GLU
3	E5	23	GLU
3	E5	39	LEU
3	E5	41	VAL
3	E5	42	VAL
3	E5	54	THR
3	E5	68	ILE
3	E5	87	MET
3	E5	88	GLU
3	E5	90	ILE
3	E5	102	ASP
3	E5	126	SER
3	E5	132	VAL
3	E5	133	GLN
3	E5	134	LYS
3	E5	137	ASP
3	E5	142	ILE
3	E5	149	ILE
3	E5	157	LEU
3	E5	161	VAL
2	F5	2	VAL
2	F5	10	ILE
2	F5	18	ARG
2	F5	31	ARG
2	F5	40	GLU
2	F5	47	SER
2	F5	67	THR
2	F5	70	THR
2	F5	79	SER
2	F5	97	THR
2	F5	101	VAL
2	F5	121	SER
2	F5	126	SER
2	F5	131	VAL
2	F5	143	LEU
3	G5	4	ASP
3	G5	18	GLU
3	G5	23	GLU
3	G5	39	LEU
3	G5	41	VAL

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Mol	Chain	Res	Type
3	G5	42	VAL
3	G5	54	THR
3	G5	68	ILE
3	G5	87	MET
3	G5	88	GLU
3	G5	90	ILE
3	G5	102	ASP
3	G5	126	SER
3	G5	132	VAL
3	G5	133	GLN
3	G5	134	LYS
3	G5	137	ASP
3	G5	142	ILE
3	G5	149	ILE
3	G5	157	LEU
3	G5	161	VAL
2	H5	2	VAL
2	H5	10	ILE
2	H5	18	ARG
2	H5	40	GLU
2	H5	47	SER
2	H5	67	THR
2	H5	70	THR
2	H5	79	SER
2	H5	97	THR
2	H5	101	VAL
2	H5	121	SER
2	H5	126	SER
2	H5	131	VAL
2	H5	143	LEU
3	I5	4	ASP
3	I5	18	GLU
3	I5	23	GLU
3	I5	39	LEU
3	I5	41	VAL
3	I5	42	VAL
3	I5	54	THR
3	I5	68	ILE
3	I5	87	MET
3	I5	88	GLU
3	I5	90	ILE
3	I5	102	ASP

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Mol	Chain	Res	Type
3	I5	126	SER
3	I5	132	VAL
3	I5	133	GLN
3	I5	134	LYS
3	I5	137	ASP
3	I5	147	ASN
3	I5	149	ILE
3	I5	161	VAL
2	J5	2	VAL
2	J5	10	ILE
2	J5	18	ARG
2	J5	31	ARG
2	J5	40	GLU
2	J5	47	SER
2	J5	67	THR
2	J5	70	THR
2	J5	79	SER
2	J5	97	THR
2	J5	101	VAL
2	J5	121	SER
2	J5	126	SER
2	J5	131	VAL
2	J5	143	LEU
3	K5	4	ASP
3	K5	18	GLU
3	K5	23	GLU
3	K5	39	LEU
3	K5	41	VAL
3	K5	42	VAL
3	K5	54	THR
3	K5	68	ILE
3	K5	87	MET
3	K5	88	GLU
3	K5	90	ILE
3	K5	102	ASP
3	K5	126	SER
3	K5	132	VAL
3	K5	133	GLN
3	K5	134	LYS
3	K5	137	ASP
3	K5	142	ILE
3	K5	154	CYS

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Mol	Chain	Res	Type
3	K5	161	VAL
2	L5	2	VAL
2	L5	10	ILE
2	L5	18	ARG
2	L5	31	ARG
2	L5	40	GLU
2	L5	47	SER
2	L5	67	THR
2	L5	70	THR
2	L5	79	SER
2	L5	97	THR
2	L5	101	VAL
2	L5	121	SER
2	L5	126	SER
2	L5	131	VAL
2	L5	143	LEU
3	M5	4	ASP
3	M5	18	GLU
3	M5	23	GLU
3	M5	39	LEU
3	M5	41	VAL
3	M5	42	VAL
3	M5	54	THR
3	M5	68	ILE
3	M5	87	MET
3	M5	88	GLU
3	M5	90	ILE
3	M5	102	ASP
3	M5	126	SER
3	M5	132	VAL
3	M5	133	GLN
3	M5	134	LYS
3	M5	137	ASP
3	M5	142	ILE
3	M5	154	CYS
3	M5	157	LEU
3	M5	161	VAL
4	N5	230	VAL
2	O5	2	VAL
2	O5	10	ILE
2	O5	18	ARG
2	O5	40	GLU

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Mol	Chain	Res	Type
2	O5	47	SER
2	O5	67	THR
2	O5	70	THR
2	O5	79	SER
2	O5	97	THR
2	O5	101	VAL
2	O5	121	SER
2	O5	126	SER
2	O5	131	VAL
2	O5	143	LEU
3	P5	4	ASP
3	P5	18	GLU
3	P5	23	GLU
3	P5	39	LEU
3	P5	41	VAL
3	P5	42	VAL
3	P5	54	THR
3	P5	68	ILE
3	P5	87	MET
3	P5	88	GLU
3	P5	90	ILE
3	P5	102	ASP
3	P5	126	SER
3	P5	132	VAL
3	P5	133	GLN
3	P5	134	LYS
3	P5	137	ASP
3	P5	142	ILE
3	P5	154	CYS
3	P5	161	VAL
2	Q5	2	VAL
2	Q5	10	ILE
2	Q5	18	ARG
2	Q5	31	ARG
2	Q5	34	ARG
2	Q5	40	GLU
2	Q5	47	SER
2	Q5	67	THR
2	Q5	70	THR
2	Q5	79	SER
2	Q5	97	THR
2	Q5	101	VAL

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Mol	Chain	Res	Type
2	Q5	121	SER
2	Q5	126	SER
2	Q5	131	VAL
2	Q5	143	LEU
3	R5	4	ASP
3	R5	18	GLU
3	R5	23	GLU
3	R5	39	LEU
3	R5	41	VAL
3	R5	42	VAL
3	R5	54	THR
3	R5	68	ILE
3	R5	87	MET
3	R5	88	GLU
3	R5	90	ILE
3	R5	102	ASP
3	R5	126	SER
3	R5	132	VAL
3	R5	133	GLN
3	R5	134	LYS
3	R5	137	ASP
3	R5	142	ILE
3	R5	149	ILE
3	R5	161	VAL
2	S5	2	VAL
2	S5	10	ILE
2	S5	18	ARG
2	S5	31	ARG
2	S5	33	GLU
2	S5	40	GLU
2	S5	47	SER
2	S5	67	THR
2	S5	70	THR
2	S5	79	SER
2	S5	97	THR
2	S5	101	VAL
2	S5	121	SER
2	S5	126	SER
2	S5	131	VAL
2	S5	143	LEU
3	T5	4	ASP
3	T5	18	GLU

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Mol	Chain	Res	Type
3	T5	23	GLU
3	T5	39	LEU
3	T5	41	VAL
3	T5	42	VAL
3	T5	54	THR
3	T5	68	ILE
3	T5	87	MET
3	T5	88	GLU
3	T5	90	ILE
3	T5	102	ASP
3	T5	126	SER
3	T5	132	VAL
3	T5	133	GLN
3	T5	134	LYS
3	T5	137	ASP
3	T5	142	ILE
3	T5	149	ILE
3	T5	157	LEU
3	T5	161	VAL
2	U5	2	VAL
2	U5	10	ILE
2	U5	18	ARG
2	U5	40	GLU
2	U5	47	SER
2	U5	67	THR
2	U5	70	THR
2	U5	79	SER
2	U5	97	THR
2	U5	101	VAL
2	U5	121	SER
2	U5	126	SER
2	U5	131	VAL
2	U5	143	LEU
3	V5	4	ASP
3	V5	18	GLU
3	V5	23	GLU
3	V5	39	LEU
3	V5	41	VAL
3	V5	42	VAL
3	V5	54	THR
3	V5	68	ILE
3	V5	87	MET

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Mol	Chain	Res	Type
3	V5	88	GLU
3	V5	90	ILE
3	V5	102	ASP
3	V5	126	SER
3	V5	132	VAL
3	V5	133	GLN
3	V5	134	LYS
3	V5	137	ASP
3	V5	154	CYS
3	V5	161	VAL
2	W5	2	VAL
2	W5	10	ILE
2	W5	18	ARG
2	W5	34	ARG
2	W5	40	GLU
2	W5	47	SER
2	W5	67	THR
2	W5	70	THR
2	W5	79	SER
2	W5	97	THR
2	W5	101	VAL
2	W5	121	SER
2	W5	126	SER
2	W5	131	VAL
2	W5	143	LEU
3	X5	4	ASP
3	X5	18	GLU
3	X5	23	GLU
3	X5	39	LEU
3	X5	41	VAL
3	X5	42	VAL
3	X5	54	THR
3	X5	68	ILE
3	X5	87	MET
3	X5	88	GLU
3	X5	90	ILE
3	X5	102	ASP
3	X5	126	SER
3	X5	132	VAL
3	X5	133	GLN
3	X5	134	LYS
3	X5	137	ASP

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Mol	Chain	Res	Type
3	X5	142	ILE
3	X5	145	ASP
3	X5	149	ILE
3	X5	157	LEU
3	X5	161	VAL
2	Y5	2	VAL
2	Y5	10	ILE
2	Y5	18	ARG
2	Y5	31	ARG
2	Y5	40	GLU
2	Y5	47	SER
2	Y5	67	THR
2	Y5	70	THR
2	Y5	79	SER
2	Y5	97	THR
2	Y5	101	VAL
2	Y5	121	SER
2	Y5	126	SER
2	Y5	131	VAL
2	Y5	143	LEU
3	Z5	4	ASP
3	Z5	18	GLU
3	Z5	23	GLU
3	Z5	39	LEU
3	Z5	41	VAL
3	Z5	42	VAL
3	Z5	54	THR
3	Z5	68	ILE
3	Z5	87	MET
3	Z5	88	GLU
3	Z5	90	ILE
3	Z5	102	ASP
3	Z5	126	SER
3	Z5	132	VAL
3	Z5	133	GLN
3	Z5	134	LYS
3	Z5	137	ASP
3	Z5	147	ASN
3	Z5	157	LEU
3	Z5	161	VAL
5	A6	38	VAL
5	A6	226	VAL

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Mol	Chain	Res	Type
2	B6	2	VAL
2	B6	8	GLU
2	B6	33	GLU
2	B6	54	ASP
2	B6	67	THR
2	B6	70	THR
2	B6	89	VAL
2	B6	97	THR
2	B6	101	VAL
2	B6	118	GLU
2	B6	126	SER
2	B6	128	SER
2	B6	132	GLU
2	B6	163	SER
3	C6	5	VAL
3	C6	7	THR
3	C6	11	SER
3	C6	15	SER
3	C6	21	SER
3	C6	23	GLU
3	C6	26	ASP
3	C6	32	VAL
3	C6	47	SER
3	C6	54	THR
3	C6	60	LEU
3	C6	66	GLN
3	C6	68	ILE
3	C6	76	THR
3	C6	94	VAL
3	C6	104	SER
3	C6	105	VAL
3	C6	109	ARG
3	C6	163	SER
2	D6	2	VAL
2	D6	8	GLU
2	D6	54	ASP
2	D6	67	THR
2	D6	70	THR
2	D6	89	VAL
2	D6	97	THR
2	D6	101	VAL
2	D6	118	GLU

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Mol	Chain	Res	Type
2	D6	126	SER
2	D6	128	SER
2	D6	132	GLU
2	D6	163	SER
3	E6	5	VAL
3	E6	7	THR
3	E6	11	SER
3	E6	15	SER
3	E6	21	SER
3	E6	23	GLU
3	E6	26	ASP
3	E6	32	VAL
3	E6	47	SER
3	E6	54	THR
3	E6	60	LEU
3	E6	66	GLN
3	E6	68	ILE
3	E6	76	THR
3	E6	94	VAL
3	E6	104	SER
3	E6	107	ASP
3	E6	108	ASP
3	E6	110	CYS
3	E6	150	THR
3	E6	154	CYS
3	E6	163	SER
2	F6	2	VAL
2	F6	8	GLU
2	F6	54	ASP
2	F6	67	THR
2	F6	70	THR
2	F6	89	VAL
2	F6	97	THR
2	F6	101	VAL
2	F6	118	GLU
2	F6	126	SER
2	F6	128	SER
2	F6	132	GLU
2	F6	163	SER
3	G6	5	VAL
3	G6	7	THR
3	G6	11	SER

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Mol	Chain	Res	Type
3	G6	15	SER
3	G6	21	SER
3	G6	23	GLU
3	G6	26	ASP
3	G6	42	VAL
3	G6	47	SER
3	G6	54	THR
3	G6	60	LEU
3	G6	66	GLN
3	G6	68	ILE
3	G6	76	THR
3	G6	86	ASP
3	G6	94	VAL
3	G6	104	SER
3	G6	107	ASP
3	G6	108	ASP
3	G6	110	CYS
2	H6	2	VAL
2	H6	8	GLU
2	H6	32	TYR
2	H6	33	GLU
2	H6	54	ASP
2	H6	67	THR
2	H6	70	THR
2	H6	89	VAL
2	H6	97	THR
2	H6	101	VAL
2	H6	118	GLU
2	H6	126	SER
2	H6	128	SER
2	H6	132	GLU
2	H6	163	SER
3	I6	5	VAL
3	I6	7	THR
3	I6	11	SER
3	I6	15	SER
3	I6	21	SER
3	I6	23	GLU
3	I6	26	ASP
3	I6	32	VAL
3	I6	42	VAL
3	I6	47	SER

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Mol	Chain	Res	Type
3	I6	54	THR
3	I6	60	LEU
3	I6	66	GLN
3	I6	68	ILE
3	I6	76	THR
3	I6	94	VAL
3	I6	104	SER
3	I6	107	ASP
3	I6	108	ASP
3	I6	110	CYS
3	I6	149	ILE
3	I6	163	SER
2	J6	2	VAL
2	J6	8	GLU
2	J6	31	ARG
2	J6	54	ASP
2	J6	67	THR
2	J6	70	THR
2	J6	89	VAL
2	J6	97	THR
2	J6	101	VAL
2	J6	118	GLU
2	J6	126	SER
2	J6	128	SER
2	J6	132	GLU
2	J6	163	SER
3	K6	5	VAL
3	K6	7	THR
3	K6	11	SER
3	K6	15	SER
3	K6	21	SER
3	K6	23	GLU
3	K6	26	ASP
3	K6	32	VAL
3	K6	38	ARG
3	K6	47	SER
3	K6	54	THR
3	K6	60	LEU
3	K6	66	GLN
3	K6	68	ILE
3	K6	76	THR
3	K6	94	VAL

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Mol	Chain	Res	Type
3	K6	104	SER
3	K6	107	ASP
3	K6	108	ASP
3	K6	110	CYS
3	K6	121	LEU
3	K6	149	ILE
3	K6	163	SER
2	L6	2	VAL
2	L6	8	GLU
2	L6	54	ASP
2	L6	67	THR
2	L6	70	THR
2	L6	89	VAL
2	L6	97	THR
2	L6	101	VAL
2	L6	118	GLU
2	L6	126	SER
2	L6	128	SER
2	L6	132	GLU
2	L6	163	SER
3	M6	5	VAL
3	M6	7	THR
3	M6	11	SER
3	M6	15	SER
3	M6	21	SER
3	M6	23	GLU
3	M6	26	ASP
3	M6	32	VAL
3	M6	47	SER
3	M6	54	THR
3	M6	60	LEU
3	M6	66	GLN
3	M6	94	VAL
3	M6	104	SER
3	M6	107	ASP
3	M6	108	ASP
3	M6	110	CYS
3	M6	163	SER
4	N6	157	GLN
4	N6	160	GLN
4	N6	230	VAL
2	O6	2	VAL

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Mol	Chain	Res	Type
2	O6	8	GLU
2	O6	24	GLU
2	O6	33	GLU
2	O6	54	ASP
2	O6	67	THR
2	O6	70	THR
2	O6	89	VAL
2	O6	97	THR
2	O6	101	VAL
2	O6	118	GLU
2	O6	126	SER
2	O6	128	SER
2	O6	132	GLU
2	O6	163	SER
3	P6	5	VAL
3	P6	7	THR
3	P6	11	SER
3	P6	15	SER
3	P6	21	SER
3	P6	23	GLU
3	P6	26	ASP
3	P6	32	VAL
3	P6	47	SER
3	P6	54	THR
3	P6	60	LEU
3	P6	66	GLN
3	P6	68	ILE
3	P6	76	THR
3	P6	83	CYS
3	P6	86	ASP
3	P6	94	VAL
3	P6	104	SER
3	P6	107	ASP
3	P6	108	ASP
3	P6	110	CYS
3	P6	163	SER
2	Q6	2	VAL
2	Q6	8	GLU
2	Q6	23	THR
2	Q6	33	GLU
2	Q6	54	ASP
2	Q6	67	THR

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Mol	Chain	Res	Type
2	Q6	70	THR
2	Q6	89	VAL
2	Q6	97	THR
2	Q6	101	VAL
2	Q6	118	GLU
2	Q6	126	SER
2	Q6	128	SER
2	Q6	132	GLU
2	Q6	150	GLU
2	Q6	163	SER
3	R6	5	VAL
3	R6	7	THR
3	R6	11	SER
3	R6	15	SER
3	R6	21	SER
3	R6	23	GLU
3	R6	26	ASP
3	R6	32	VAL
3	R6	47	SER
3	R6	54	THR
3	R6	60	LEU
3	R6	66	GLN
3	R6	68	ILE
3	R6	76	THR
3	R6	94	VAL
3	R6	104	SER
3	R6	107	ASP
3	R6	108	ASP
3	R6	110	CYS
3	R6	149	ILE
3	R6	150	THR
3	R6	163	SER
2	S6	2	VAL
2	S6	8	GLU
2	S6	29	ARG
2	S6	33	GLU
2	S6	54	ASP
2	S6	67	THR
2	S6	70	THR
2	S6	89	VAL
2	S6	97	THR
2	S6	101	VAL

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Mol	Chain	Res	Type
2	S6	118	GLU
2	S6	126	SER
2	S6	128	SER
2	S6	132	GLU
2	S6	163	SER
3	T6	5	VAL
3	T6	7	THR
3	T6	11	SER
3	T6	15	SER
3	T6	21	SER
3	T6	23	GLU
3	T6	26	ASP
3	T6	32	VAL
3	T6	47	SER
3	T6	54	THR
3	T6	60	LEU
3	T6	66	GLN
3	T6	76	THR
3	T6	94	VAL
3	T6	104	SER
3	T6	107	ASP
3	T6	108	ASP
3	T6	110	CYS
3	T6	153	ASP
3	T6	163	SER
2	U6	2	VAL
2	U6	8	GLU
2	U6	54	ASP
2	U6	67	THR
2	U6	70	THR
2	U6	89	VAL
2	U6	97	THR
2	U6	101	VAL
2	U6	118	GLU
2	U6	126	SER
2	U6	128	SER
2	U6	132	GLU
2	U6	163	SER
3	V6	5	VAL
3	V6	7	THR
3	V6	11	SER
3	V6	15	SER

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Mol	Chain	Res	Type
3	V6	21	SER
3	V6	23	GLU
3	V6	26	ASP
3	V6	47	SER
3	V6	54	THR
3	V6	60	LEU
3	V6	66	GLN
3	V6	68	ILE
3	V6	76	THR
3	V6	94	VAL
3	V6	104	SER
3	V6	107	ASP
3	V6	108	ASP
3	V6	110	CYS
3	V6	163	SER
2	W6	2	VAL
2	W6	8	GLU
2	W6	33	GLU
2	W6	54	ASP
2	W6	67	THR
2	W6	70	THR
2	W6	89	VAL
2	W6	97	THR
2	W6	101	VAL
2	W6	118	GLU
2	W6	126	SER
2	W6	128	SER
2	W6	132	GLU
2	W6	163	SER
3	X6	5	VAL
3	X6	7	THR
3	X6	11	SER
3	X6	15	SER
3	X6	21	SER
3	X6	23	GLU
3	X6	26	ASP
3	X6	32	VAL
3	X6	36	ASN
3	X6	47	SER
3	X6	54	THR
3	X6	60	LEU
3	X6	66	GLN

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Mol	Chain	Res	Type
3	X6	68	ILE
3	X6	76	THR
3	X6	94	VAL
3	X6	104	SER
3	X6	107	ASP
3	X6	108	ASP
3	X6	110	CYS
3	X6	163	SER
2	Y6	2	VAL
2	Y6	8	GLU
2	Y6	33	GLU
2	Y6	54	ASP
2	Y6	67	THR
2	Y6	70	THR
2	Y6	89	VAL
2	Y6	97	THR
2	Y6	101	VAL
2	Y6	118	GLU
2	Y6	126	SER
2	Y6	128	SER
2	Y6	132	GLU
2	Y6	163	SER
3	Z6	5	VAL
3	Z6	7	THR
3	Z6	11	SER
3	Z6	15	SER
3	Z6	21	SER
3	Z6	23	GLU
3	Z6	26	ASP
3	Z6	32	VAL
3	Z6	47	SER
3	Z6	54	THR
3	Z6	60	LEU
3	Z6	66	GLN
3	Z6	68	ILE
3	Z6	76	THR
3	Z6	94	VAL
3	Z6	104	SER
3	Z6	107	ASP
3	Z6	108	ASP
3	Z6	110	CYS
3	Z6	163	SER

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Mol	Chain	Res	Type
6	A7	60	ILE
6	A7	64	ARG
6	A7	83	ILE
6	A7	91	VAL
6	A7	98	ASP
6	A7	104	ARG
6	A7	116	ARG
2	B7	2	VAL
2	B7	8	GLU
2	B7	33	GLU
2	B7	54	ASP
2	B7	67	THR
2	B7	70	THR
2	B7	89	VAL
2	B7	97	THR
2	B7	101	VAL
2	B7	118	GLU
2	B7	126	SER
2	B7	128	SER
2	B7	132	GLU
2	B7	163	SER
3	C7	5	VAL
3	C7	7	THR
3	C7	11	SER
3	C7	15	SER
3	C7	21	SER
3	C7	23	GLU
3	C7	26	ASP
3	C7	32	VAL
3	C7	47	SER
3	C7	54	THR
3	C7	60	LEU
3	C7	66	GLN
3	C7	68	ILE
3	C7	76	THR
3	C7	94	VAL
3	C7	104	SER
3	C7	105	VAL
3	C7	109	ARG
3	C7	163	SER
2	D7	2	VAL
2	D7	8	GLU

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Mol	Chain	Res	Type
2	D7	54	ASP
2	D7	67	THR
2	D7	70	THR
2	D7	89	VAL
2	D7	97	THR
2	D7	101	VAL
2	D7	118	GLU
2	D7	126	SER
2	D7	128	SER
2	D7	132	GLU
2	D7	163	SER
3	E7	5	VAL
3	E7	7	THR
3	E7	11	SER
3	E7	15	SER
3	E7	21	SER
3	E7	23	GLU
3	E7	26	ASP
3	E7	32	VAL
3	E7	47	SER
3	E7	54	THR
3	E7	60	LEU
3	E7	66	GLN
3	E7	68	ILE
3	E7	76	THR
3	E7	94	VAL
3	E7	104	SER
3	E7	107	ASP
3	E7	108	ASP
3	E7	110	CYS
3	E7	150	THR
3	E7	154	CYS
3	E7	163	SER
2	F7	2	VAL
2	F7	8	GLU
2	F7	54	ASP
2	F7	67	THR
2	F7	70	THR
2	F7	89	VAL
2	F7	97	THR
2	F7	101	VAL
2	F7	118	GLU

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Mol	Chain	Res	Type
2	F7	126	SER
2	F7	128	SER
2	F7	132	GLU
2	F7	163	SER
3	G7	5	VAL
3	G7	7	THR
3	G7	11	SER
3	G7	15	SER
3	G7	21	SER
3	G7	23	GLU
3	G7	26	ASP
3	G7	42	VAL
3	G7	47	SER
3	G7	54	THR
3	G7	60	LEU
3	G7	66	GLN
3	G7	68	ILE
3	G7	76	THR
3	G7	86	ASP
3	G7	94	VAL
3	G7	104	SER
3	G7	107	ASP
3	G7	108	ASP
3	G7	110	CYS
2	H7	2	VAL
2	H7	8	GLU
2	H7	32	TYR
2	H7	33	GLU
2	H7	54	ASP
2	H7	67	THR
2	H7	70	THR
2	H7	89	VAL
2	H7	97	THR
2	H7	101	VAL
2	H7	118	GLU
2	H7	126	SER
2	H7	128	SER
2	H7	132	GLU
2	H7	163	SER
3	I7	5	VAL
3	I7	7	THR
3	I7	11	SER

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Mol	Chain	Res	Type
3	I7	15	SER
3	I7	21	SER
3	I7	23	GLU
3	I7	26	ASP
3	I7	32	VAL
3	I7	42	VAL
3	I7	47	SER
3	I7	54	THR
3	I7	60	LEU
3	I7	66	GLN
3	I7	68	ILE
3	I7	76	THR
3	I7	94	VAL
3	I7	104	SER
3	I7	107	ASP
3	I7	108	ASP
3	I7	110	CYS
3	I7	149	ILE
3	I7	163	SER
2	J7	2	VAL
2	J7	8	GLU
2	J7	31	ARG
2	J7	54	ASP
2	J7	67	THR
2	J7	70	THR
2	J7	89	VAL
2	J7	97	THR
2	J7	101	VAL
2	J7	118	GLU
2	J7	126	SER
2	J7	128	SER
2	J7	132	GLU
2	J7	163	SER
3	K7	5	VAL
3	K7	7	THR
3	K7	11	SER
3	K7	15	SER
3	K7	21	SER
3	K7	23	GLU
3	K7	26	ASP
3	K7	32	VAL
3	K7	38	ARG

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Mol	Chain	Res	Type
3	K7	47	SER
3	K7	54	THR
3	K7	60	LEU
3	K7	66	GLN
3	K7	68	ILE
3	K7	76	THR
3	K7	94	VAL
3	K7	104	SER
3	K7	107	ASP
3	K7	108	ASP
3	K7	110	CYS
3	K7	121	LEU
3	K7	149	ILE
3	K7	163	SER
2	L7	2	VAL
2	L7	8	GLU
2	L7	54	ASP
2	L7	67	THR
2	L7	70	THR
2	L7	89	VAL
2	L7	97	THR
2	L7	101	VAL
2	L7	118	GLU
2	L7	126	SER
2	L7	128	SER
2	L7	132	GLU
2	L7	163	SER
3	M7	5	VAL
3	M7	7	THR
3	M7	11	SER
3	M7	15	SER
3	M7	21	SER
3	M7	23	GLU
3	M7	26	ASP
3	M7	32	VAL
3	M7	47	SER
3	M7	54	THR
3	M7	60	LEU
3	M7	66	GLN
3	M7	94	VAL
3	M7	104	SER
3	M7	107	ASP

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Mol	Chain	Res	Type
3	M7	108	ASP
3	M7	110	CYS
3	M7	163	SER
4	N7	230	VAL
7	A8	3	ILE
7	A8	5	THR
7	A8	24	ASP
7	A8	44	THR
7	A8	51	VAL
7	A8	78	THR
7	A8	81	CYS
7	A8	118	SER
7	A8	123	ILE
7	A8	138	SER
7	A8	139	THR
7	A8	144	GLU
7	A8	154	ASP
8	B8	34	THR
8	B8	43	THR
8	B8	46	SER
8	B8	48	ASN
8	B8	75	THR
8	B8	87	ASP
8	B8	98	LEU
8	B8	104	ILE
8	B8	107	GLU
8	B8	113	LEU
8	B8	127	THR
8	B8	152	ILE
8	B8	158	SER
7	C8	3	ILE
7	C8	5	THR
7	C8	24	ASP
7	C8	44	THR
7	C8	51	VAL
7	C8	78	THR
7	C8	81	CYS
7	C8	118	SER
7	C8	123	ILE
7	C8	138	SER
7	C8	139	THR
7	C8	144	GLU

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Mol	Chain	Res	Type
7	C8	154	ASP
8	D8	34	THR
8	D8	43	THR
8	D8	46	SER
8	D8	48	ASN
8	D8	75	THR
8	D8	87	ASP
8	D8	98	LEU
8	D8	104	ILE
8	D8	107	GLU
8	D8	113	LEU
8	D8	127	THR
8	D8	152	ILE
8	D8	158	SER
7	E8	3	ILE
7	E8	5	THR
7	E8	24	ASP
7	E8	44	THR
7	E8	51	VAL
7	E8	78	THR
7	E8	81	CYS
7	E8	118	SER
7	E8	123	ILE
7	E8	138	SER
7	E8	139	THR
7	E8	144	GLU
7	E8	154	ASP
8	F8	34	THR
8	F8	43	THR
8	F8	46	SER
8	F8	48	ASN
8	F8	75	THR
8	F8	87	ASP
8	F8	98	LEU
8	F8	104	ILE
8	F8	107	GLU
8	F8	113	LEU
8	F8	127	THR
8	F8	152	ILE
8	F8	158	SER
9	G8	7	ILE
9	G8	11	VAL

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Mol	Chain	Res	Type
9	G8	19	THR
9	G8	24	GLN
7	H8	3	ILE
7	H8	5	THR
7	H8	24	ASP
7	H8	44	THR
7	H8	51	VAL
7	H8	78	THR
7	H8	81	CYS
7	H8	118	SER
7	H8	123	ILE
7	H8	138	SER
7	H8	139	THR
7	H8	144	GLU
7	H8	154	ASP
8	I8	34	THR
8	I8	43	THR
8	I8	46	SER
8	I8	48	ASN
8	I8	75	THR
8	I8	87	ASP
8	I8	98	LEU
8	I8	104	ILE
8	I8	107	GLU
8	I8	113	LEU
8	I8	127	THR
8	I8	152	ILE
8	I8	158	SER
7	J8	3	ILE
7	J8	5	THR
7	J8	24	ASP
7	J8	44	THR
7	J8	51	VAL
7	J8	78	THR
7	J8	81	CYS
7	J8	118	SER
7	J8	123	ILE
7	J8	138	SER
7	J8	139	THR
7	J8	144	GLU
7	J8	154	ASP
8	K8	34	THR

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Mol	Chain	Res	Type
8	K8	43	THR
8	K8	46	SER
8	K8	48	ASN
8	K8	75	THR
8	K8	87	ASP
8	K8	98	LEU
8	K8	104	ILE
8	K8	107	GLU
8	K8	113	LEU
8	K8	127	THR
8	K8	152	ILE
8	K8	158	SER
7	L8	3	ILE
7	L8	5	THR
7	L8	24	ASP
7	L8	44	THR
7	L8	51	VAL
7	L8	78	THR
7	L8	81	CYS
7	L8	118	SER
7	L8	123	ILE
7	L8	138	SER
7	L8	139	THR
7	L8	144	GLU
7	L8	154	ASP
8	M8	34	THR
8	M8	43	THR
8	M8	46	SER
8	M8	48	ASN
8	M8	75	THR
8	M8	87	ASP
8	M8	98	LEU
8	M8	104	ILE
8	M8	107	GLU
8	M8	113	LEU
8	M8	127	THR
8	M8	152	ILE
8	M8	158	SER
9	N8	7	ILE
9	N8	11	VAL
9	N8	19	THR
9	N8	24	GLN

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Mol	Chain	Res	Type
7	O8	3	ILE
7	O8	5	THR
7	O8	24	ASP
7	O8	44	THR
7	O8	51	VAL
7	O8	78	THR
7	O8	81	CYS
7	O8	118	SER
7	O8	123	ILE
7	O8	138	SER
7	O8	139	THR
7	O8	144	GLU
7	O8	154	ASP
8	P8	34	THR
8	P8	43	THR
8	P8	46	SER
8	P8	48	ASN
8	P8	75	THR
8	P8	87	ASP
8	P8	98	LEU
8	P8	104	ILE
8	P8	107	GLU
8	P8	113	LEU
8	P8	127	THR
8	P8	152	ILE
8	P8	158	SER
7	Q8	3	ILE
7	Q8	5	THR
7	Q8	24	ASP
7	Q8	44	THR
7	Q8	51	VAL
7	Q8	78	THR
7	Q8	81	CYS
7	Q8	118	SER
7	Q8	123	ILE
7	Q8	138	SER
7	Q8	139	THR
7	Q8	144	GLU
7	Q8	154	ASP
8	R8	34	THR
8	R8	43	THR
8	R8	46	SER

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Mol	Chain	Res	Type
8	R8	48	ASN
8	R8	75	THR
8	R8	87	ASP
8	R8	98	LEU
8	R8	104	ILE
8	R8	107	GLU
8	R8	113	LEU
8	R8	127	THR
8	R8	152	ILE
8	R8	158	SER
7	S8	3	ILE
7	S8	5	THR
7	S8	24	ASP
7	S8	44	THR
7	S8	51	VAL
7	S8	78	THR
7	S8	81	CYS
7	S8	118	SER
7	S8	123	ILE
7	S8	138	SER
7	S8	139	THR
7	S8	144	GLU
7	S8	154	ASP
8	T8	34	THR
8	T8	43	THR
8	T8	46	SER
8	T8	48	ASN
8	T8	75	THR
8	T8	87	ASP
8	T8	98	LEU
8	T8	104	ILE
8	T8	107	GLU
8	T8	113	LEU
8	T8	127	THR
8	T8	152	ILE
8	T8	158	SER
9	U8	7	ILE
9	U8	11	VAL
9	U8	19	THR
9	U8	24	GLN
7	V8	3	ILE
7	V8	5	THR

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Mol	Chain	Res	Type
7	V8	24	ASP
7	V8	44	THR
7	V8	51	VAL
7	V8	78	THR
7	V8	81	CYS
7	V8	118	SER
7	V8	123	ILE
7	V8	138	SER
7	V8	139	THR
7	V8	144	GLU
7	V8	154	ASP
8	W8	34	THR
8	W8	43	THR
8	W8	46	SER
8	W8	48	ASN
8	W8	75	THR
8	W8	87	ASP
8	W8	98	LEU
8	W8	104	ILE
8	W8	107	GLU
8	W8	113	LEU
8	W8	127	THR
8	W8	152	ILE
8	W8	158	SER
7	X8	3	ILE
7	X8	5	THR
7	X8	24	ASP
7	X8	44	THR
7	X8	51	VAL
7	X8	78	THR
7	X8	81	CYS
7	X8	118	SER
7	X8	123	ILE
7	X8	138	SER
7	X8	139	THR
7	X8	144	GLU
7	X8	154	ASP
8	Y8	34	THR
8	Y8	43	THR
8	Y8	46	SER
8	Y8	48	ASN
8	Y8	75	THR

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Mol	Chain	Res	Type
8	Y8	87	ASP
8	Y8	98	LEU
8	Y8	104	ILE
8	Y8	107	GLU
8	Y8	113	LEU
8	Y8	127	THR
8	Y8	152	ILE
8	Y8	158	SER
7	Z8	3	ILE
7	Z8	5	THR
7	Z8	24	ASP
7	Z8	44	THR
7	Z8	51	VAL
7	Z8	78	THR
7	Z8	81	CYS
7	Z8	118	SER
7	Z8	123	ILE
7	Z8	138	SER
7	Z8	139	THR
7	Z8	144	GLU
7	Z8	154	ASP
8	a8	34	THR
8	a8	43	THR
8	a8	46	SER
8	a8	48	ASN
8	a8	75	THR
8	a8	87	ASP
8	a8	98	LEU
8	a8	104	ILE
8	a8	107	GLU
8	a8	113	LEU
8	a8	127	THR
8	a8	152	ILE
8	a8	158	SER
9	b8	7	ILE
9	b8	11	VAL
9	b8	19	THR
7	c8	3	ILE
7	c8	5	THR
7	c8	24	ASP
7	c8	44	THR
7	c8	51	VAL

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Mol	Chain	Res	Type
7	c8	78	THR
7	c8	81	CYS
7	c8	118	SER
7	c8	123	ILE
7	c8	138	SER
7	c8	139	THR
7	c8	144	GLU
7	c8	154	ASP
8	d8	34	THR
8	d8	43	THR
8	d8	46	SER
8	d8	48	ASN
8	d8	75	THR
8	d8	98	LEU
8	d8	104	ILE
8	d8	107	GLU
8	d8	113	LEU
8	d8	127	THR
8	d8	152	ILE
8	d8	158	SER
7	e8	3	ILE
7	e8	5	THR
7	e8	24	ASP
7	e8	44	THR
7	e8	51	VAL
7	e8	78	THR
7	e8	81	CYS
7	e8	118	SER
7	e8	123	ILE
7	e8	138	SER
7	e8	139	THR
7	e8	144	GLU
7	e8	154	ASP
8	f8	34	THR
8	f8	43	THR
8	f8	46	SER
8	f8	48	ASN
8	f8	75	THR
8	f8	87	ASP
8	f8	98	LEU
8	f8	104	ILE
8	f8	107	GLU

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Mol	Chain	Res	Type
8	f8	113	LEU
8	f8	127	THR
8	f8	152	ILE
8	f8	158	SER
7	g8	3	ILE
7	g8	5	THR
7	g8	24	ASP
7	g8	44	THR
7	g8	51	VAL
7	g8	78	THR
7	g8	81	CYS
7	g8	118	SER
7	g8	123	ILE
7	g8	138	SER
7	g8	139	THR
7	g8	144	GLU
7	g8	154	ASP
8	h8	34	THR
8	h8	43	THR
8	h8	46	SER
8	h8	48	ASN
8	h8	75	THR
8	h8	87	ASP
8	h8	98	LEU
8	h8	104	ILE
8	h8	107	GLU
8	h8	113	LEU
8	h8	127	THR
8	h8	152	ILE
8	h8	158	SER
9	i8	7	ILE
9	i8	11	VAL
9	i8	19	THR
9	i8	24	GLN
7	j8	3	ILE
7	j8	5	THR
7	j8	24	ASP
7	j8	44	THR
7	j8	51	VAL
7	j8	78	THR
7	j8	81	CYS
7	j8	118	SER

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Mol	Chain	Res	Type
7	j8	123	ILE
7	j8	138	SER
7	j8	139	THR
7	j8	144	GLU
7	j8	154	ASP
8	k8	34	THR
8	k8	43	THR
8	k8	46	SER
8	k8	48	ASN
8	k8	75	THR
8	k8	87	ASP
8	k8	98	LEU
8	k8	104	ILE
8	k8	107	GLU
8	k8	113	LEU
8	k8	127	THR
8	k8	152	ILE
8	k8	158	SER
7	l8	3	ILE
7	l8	5	THR
7	l8	24	ASP
7	l8	44	THR
7	l8	51	VAL
7	l8	78	THR
7	l8	81	CYS
7	l8	118	SER
7	l8	123	ILE
7	l8	138	SER
7	l8	139	THR
7	l8	144	GLU
7	l8	154	ASP
8	m8	34	THR
8	m8	43	THR
8	m8	46	SER
8	m8	48	ASN
8	m8	75	THR
8	m8	87	ASP
8	m8	98	LEU
8	m8	104	ILE
8	m8	107	GLU
8	m8	113	LEU
8	m8	127	THR

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Mol	Chain	Res	Type
8	m8	152	ILE
8	m8	158	SER
7	n8	3	ILE
7	n8	5	THR
7	n8	24	ASP
7	n8	44	THR
7	n8	51	VAL
7	n8	78	THR
7	n8	81	CYS
7	n8	118	SER
7	n8	123	ILE
7	n8	138	SER
7	n8	139	THR
7	n8	144	GLU
7	n8	154	ASP
8	o8	34	THR
8	o8	43	THR
8	o8	46	SER
8	o8	48	ASN
8	o8	75	THR
8	o8	87	ASP
8	o8	98	LEU
8	o8	104	ILE
8	o8	107	GLU
8	o8	113	LEU
8	o8	127	THR
8	o8	152	ILE
8	o8	158	SER
7	p8	3	ILE
7	p8	5	THR
7	p8	24	ASP
7	p8	44	THR
7	p8	51	VAL
7	p8	78	THR
7	p8	81	CYS
7	p8	118	SER
7	p8	123	ILE
7	p8	138	SER
7	p8	139	THR
7	p8	144	GLU
7	p8	154	ASP
8	q8	34	THR

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Mol	Chain	Res	Type
8	q8	43	THR
8	q8	46	SER
8	q8	48	ASN
8	q8	75	THR
8	q8	87	ASP
8	q8	98	LEU
8	q8	104	ILE
8	q8	107	GLU
8	q8	113	LEU
8	q8	127	THR
8	q8	152	ILE
8	q8	158	SER
7	r8	3	ILE
7	r8	5	THR
7	r8	24	ASP
7	r8	44	THR
7	r8	51	VAL
7	r8	78	THR
7	r8	81	CYS
7	r8	118	SER
7	r8	123	ILE
7	r8	138	SER
7	r8	139	THR
7	r8	144	GLU
7	r8	154	ASP
8	s8	34	THR
8	s8	43	THR
8	s8	46	SER
8	s8	48	ASN
8	s8	75	THR
8	s8	87	ASP
8	s8	98	LEU
8	s8	104	ILE
8	s8	107	GLU
8	s8	113	LEU
8	s8	127	THR
8	s8	152	ILE
8	s8	158	SER
7	t8	3	ILE
7	t8	5	THR
7	t8	24	ASP
7	t8	44	THR

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Mol	Chain	Res	Type
7	t8	51	VAL
7	t8	78	THR
7	t8	81	CYS
7	t8	118	SER
7	t8	123	ILE
7	t8	138	SER
7	t8	139	THR
7	t8	144	GLU
7	t8	154	ASP
8	u8	34	THR
8	u8	43	THR
8	u8	46	SER
8	u8	48	ASN
8	u8	75	THR
8	u8	87	ASP
8	u8	98	LEU
8	u8	104	ILE
8	u8	107	GLU
8	u8	113	LEU
8	u8	127	THR
8	u8	152	ILE
8	u8	158	SER
10	09	16	LEU
10	09	697	VAL
10	09	698	GLU
10	19	499	ASN
10	19	954	ARG
9	29	13	SER
9	29	14	LEU
9	29	15	SER
9	29	23	LEU
9	29	56	LEU
9	39	13	SER
9	39	14	LEU
9	39	15	SER
9	39	23	LEU
9	39	24	GLN
9	39	56	LEU
9	49	17	THR
9	49	18	ARG
9	49	21	ARG
9	49	23	LEU

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Mol	Chain	Res	Type
9	49	24	GLN
9	49	25	ASN
9	49	56	LEU
7	A9	23	LEU
7	A9	24	ASP
7	A9	56	ASP
7	A9	64	ASP
7	A9	78	THR
7	A9	93	THR
7	A9	100	ASP
7	A9	102	THR
7	A9	104	ILE
7	A9	105	GLU
7	A9	123	ILE
8	B9	4	ASP
8	B9	18	LYS
8	B9	34	THR
8	B9	37	LEU
8	B9	39	VAL
8	B9	65	ASP
8	B9	127	THR
8	B9	142	VAL
8	B9	158	SER
8	B9	161	LEU
7	C9	23	LEU
7	C9	24	ASP
7	C9	56	ASP
7	C9	60	GLN
7	C9	64	ASP
7	C9	78	THR
7	C9	93	THR
7	C9	100	ASP
7	C9	102	THR
7	C9	104	ILE
7	C9	105	GLU
7	C9	123	ILE
8	D9	4	ASP
8	D9	18	LYS
8	D9	34	THR
8	D9	37	LEU
8	D9	39	VAL
8	D9	65	ASP

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Mol	Chain	Res	Type
8	D9	127	THR
8	D9	142	VAL
8	D9	158	SER
8	D9	161	LEU
7	E9	23	LEU
7	E9	24	ASP
7	E9	56	ASP
7	E9	64	ASP
7	E9	78	THR
7	E9	93	THR
7	E9	100	ASP
7	E9	102	THR
7	E9	104	ILE
7	E9	105	GLU
7	E9	123	ILE
8	F9	4	ASP
8	F9	18	LYS
8	F9	34	THR
8	F9	37	LEU
8	F9	39	VAL
8	F9	65	ASP
8	F9	127	THR
8	F9	142	VAL
8	F9	158	SER
8	F9	161	LEU
7	G9	23	LEU
7	G9	24	ASP
7	G9	56	ASP
7	G9	64	ASP
7	G9	78	THR
7	G9	93	THR
7	G9	100	ASP
7	G9	102	THR
7	G9	104	ILE
7	G9	105	GLU
7	G9	123	ILE
8	H9	4	ASP
8	H9	18	LYS
8	H9	34	THR
8	H9	37	LEU
8	H9	39	VAL
8	H9	65	ASP

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Mol	Chain	Res	Type
8	H9	127	THR
8	H9	142	VAL
8	H9	158	SER
8	H9	161	LEU
7	I9	23	LEU
7	I9	24	ASP
7	I9	56	ASP
7	I9	64	ASP
7	I9	78	THR
7	I9	93	THR
7	I9	100	ASP
7	I9	102	THR
7	I9	104	ILE
7	I9	105	GLU
7	I9	123	ILE
8	J9	4	ASP
8	J9	18	LYS
8	J9	34	THR
8	J9	37	LEU
8	J9	39	VAL
8	J9	65	ASP
8	J9	127	THR
8	J9	142	VAL
8	J9	158	SER
8	J9	161	LEU
7	K9	23	LEU
7	K9	24	ASP
7	K9	56	ASP
7	K9	64	ASP
7	K9	78	THR
7	K9	93	THR
7	K9	100	ASP
7	K9	102	THR
7	K9	104	ILE
7	K9	105	GLU
7	K9	123	ILE
8	L9	4	ASP
8	L9	18	LYS
8	L9	34	THR
8	L9	37	LEU
8	L9	39	VAL
8	L9	65	ASP

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Mol	Chain	Res	Type
8	L9	127	THR
8	L9	142	VAL
8	L9	158	SER
8	L9	161	LEU
8	M9	4	ASP
8	M9	18	LYS
8	M9	34	THR
8	M9	37	LEU
8	M9	39	VAL
8	M9	65	ASP
8	M9	127	THR
8	M9	142	VAL
8	M9	158	SER
8	M9	161	LEU
7	N9	23	LEU
7	N9	24	ASP
7	N9	56	ASP
7	N9	64	ASP
7	N9	78	THR
7	N9	93	THR
7	N9	100	ASP
7	N9	102	THR
7	N9	104	ILE
7	N9	105	GLU
7	N9	123	ILE
8	O9	4	ASP
8	O9	18	LYS
8	O9	34	THR
8	O9	37	LEU
8	O9	39	VAL
8	O9	65	ASP
8	O9	127	THR
8	O9	142	VAL
8	O9	158	SER
8	O9	161	LEU
7	P9	23	LEU
7	P9	24	ASP
7	P9	56	ASP
7	P9	64	ASP
7	P9	78	THR
7	P9	93	THR
7	P9	100	ASP

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Mol	Chain	Res	Type
7	P9	102	THR
7	P9	104	ILE
7	P9	105	GLU
7	P9	123	ILE
7	R9	23	LEU
7	R9	24	ASP
7	R9	56	ASP
7	R9	64	ASP
7	R9	78	THR
7	R9	93	THR
7	R9	100	ASP
7	R9	102	THR
7	R9	104	ILE
7	R9	105	GLU
7	R9	123	ILE
8	S9	4	ASP
8	S9	18	LYS
8	S9	34	THR
8	S9	37	LEU
8	S9	39	VAL
8	S9	65	ASP
8	S9	127	THR
8	S9	142	VAL
8	S9	158	SER
8	S9	161	LEU
7	T9	23	LEU
7	T9	24	ASP
7	T9	56	ASP
7	T9	64	ASP
7	T9	78	THR
7	T9	93	THR
7	T9	100	ASP
7	T9	102	THR
7	T9	104	ILE
7	T9	105	GLU
7	T9	123	ILE
8	U9	4	ASP
8	U9	18	LYS
8	U9	34	THR
8	U9	37	LEU
8	U9	39	VAL
8	U9	65	ASP

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Mol	Chain	Res	Type
8	U9	84	ARG
8	U9	127	THR
8	U9	142	VAL
8	U9	158	SER
8	U9	161	LEU
12	V9	2	THR
12	V9	14	GLU
12	V9	20	SER
12	V9	27	SER
12	V9	28	ASP
12	V9	49	LYS
12	V9	96	VAL
12	V9	118	SER
12	V9	161	SER
8	W9	4	ASP
8	W9	18	LYS
8	W9	34	THR
8	W9	37	LEU
8	W9	39	VAL
8	W9	65	ASP
8	W9	127	THR
8	W9	142	VAL
8	W9	158	SER
8	W9	161	LEU
7	X9	23	LEU
7	X9	24	ASP
7	X9	56	ASP
7	X9	64	ASP
7	X9	78	THR
7	X9	93	THR
7	X9	100	ASP
7	X9	102	THR
7	X9	104	ILE
7	X9	105	GLU
7	X9	123	ILE
8	Y9	4	ASP
8	Y9	18	LYS
8	Y9	34	THR
8	Y9	37	LEU
8	Y9	39	VAL
8	Y9	65	ASP
8	Y9	127	THR

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Mol	Chain	Res	Type
8	Y9	142	VAL
8	Y9	158	SER
8	Y9	161	LEU
7	Z9	23	LEU
7	Z9	24	ASP
7	Z9	56	ASP
7	Z9	64	ASP
7	Z9	78	THR
7	Z9	93	THR
7	Z9	100	ASP
7	Z9	102	THR
7	Z9	104	ILE
7	Z9	105	GLU
7	Z9	123	ILE
8	a9	4	ASP
8	a9	18	LYS
8	a9	34	THR
8	a9	37	LEU
8	a9	39	VAL
8	a9	65	ASP
8	a9	127	THR
8	a9	142	VAL
8	a9	158	SER
8	a9	161	LEU
7	b9	23	LEU
7	b9	24	ASP
7	b9	56	ASP
7	b9	64	ASP
7	b9	78	THR
7	b9	93	THR
7	b9	100	ASP
7	b9	102	THR
7	b9	104	ILE
7	b9	105	GLU
7	b9	123	ILE
8	c9	4	ASP
8	c9	18	LYS
8	c9	34	THR
8	c9	37	LEU
8	c9	39	VAL
8	c9	65	ASP
8	c9	127	THR

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Mol	Chain	Res	Type
8	c9	142	VAL
8	c9	158	SER
8	c9	161	LEU
7	d9	23	LEU
7	d9	24	ASP
7	d9	56	ASP
7	d9	64	ASP
7	d9	78	THR
7	d9	93	THR
7	d9	100	ASP
7	d9	102	THR
7	d9	104	ILE
7	d9	105	GLU
7	d9	123	ILE
8	e9	4	ASP
8	e9	18	LYS
8	e9	34	THR
8	e9	37	LEU
8	e9	39	VAL
8	e9	65	ASP
8	e9	127	THR
8	e9	142	VAL
8	e9	158	SER
8	e9	161	LEU
7	f9	23	LEU
7	f9	24	ASP
7	f9	56	ASP
7	f9	64	ASP
7	f9	78	THR
7	f9	93	THR
7	f9	100	ASP
7	f9	102	THR
7	f9	104	ILE
7	f9	105	GLU
7	f9	123	ILE
11	g9	69	PRO
8	h9	4	ASP
8	h9	18	LYS
8	h9	34	THR
8	h9	37	LEU
8	h9	39	VAL
8	h9	65	ASP

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Mol	Chain	Res	Type
8	h9	127	THR
8	h9	142	VAL
8	h9	158	SER
8	h9	161	LEU
7	i9	23	LEU
7	i9	24	ASP
7	i9	56	ASP
7	i9	64	ASP
7	i9	78	THR
7	i9	93	THR
7	i9	100	ASP
7	i9	102	THR
7	i9	104	ILE
7	i9	105	GLU
7	i9	123	ILE
8	j9	4	ASP
8	j9	18	LYS
8	j9	34	THR
8	j9	37	LEU
8	j9	39	VAL
8	j9	65	ASP
8	j9	127	THR
8	j9	142	VAL
8	j9	158	SER
8	j9	161	LEU
7	k9	23	LEU
7	k9	24	ASP
7	k9	56	ASP
7	k9	64	ASP
7	k9	78	THR
7	k9	93	THR
7	k9	100	ASP
7	k9	102	THR
7	k9	104	ILE
7	k9	105	GLU
7	k9	123	ILE
8	l9	4	ASP
8	l9	18	LYS
8	l9	34	THR
8	l9	37	LEU
8	l9	39	VAL
8	l9	65	ASP

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Mol	Chain	Res	Type
8	l9	127	THR
8	l9	142	VAL
8	l9	158	SER
8	l9	161	LEU
12	m9	2	THR
12	m9	14	GLU
12	m9	20	SER
12	m9	27	SER
12	m9	28	ASP
12	m9	49	LYS
12	m9	96	VAL
12	m9	118	SER
12	m9	161	SER
8	n9	4	ASP
8	n9	18	LYS
8	n9	34	THR
8	n9	37	LEU
8	n9	39	VAL
8	n9	65	ASP
8	n9	127	THR
8	n9	142	VAL
8	n9	158	SER
8	n9	161	LEU
7	o9	23	LEU
7	o9	24	ASP
7	o9	56	ASP
7	o9	64	ASP
7	o9	78	THR
7	o9	93	THR
7	o9	100	ASP
7	o9	102	THR
7	o9	104	ILE
7	o9	105	GLU
7	o9	123	ILE
8	p9	4	ASP
8	p9	18	LYS
8	p9	34	THR
8	p9	37	LEU
8	p9	39	VAL
8	p9	65	ASP
8	p9	127	THR
8	p9	142	VAL

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Mol	Chain	Res	Type
8	p9	158	SER
8	p9	161	LEU
7	q9	23	LEU
7	q9	24	ASP
7	q9	56	ASP
7	q9	64	ASP
7	q9	78	THR
7	q9	93	THR
7	q9	100	ASP
7	q9	102	THR
7	q9	104	ILE
7	q9	105	GLU
7	q9	123	ILE
8	r9	4	ASP
8	r9	18	LYS
8	r9	34	THR
8	r9	37	LEU
8	r9	39	VAL
8	r9	65	ASP
8	r9	127	THR
8	r9	142	VAL
8	r9	158	SER
8	r9	161	LEU
7	s9	23	LEU
7	s9	24	ASP
7	s9	56	ASP
7	s9	64	ASP
7	s9	78	THR
7	s9	93	THR
7	s9	100	ASP
7	s9	102	THR
7	s9	104	ILE
7	s9	105	GLU
7	s9	123	ILE
8	t9	4	ASP
8	t9	18	LYS
8	t9	34	THR
8	t9	37	LEU
8	t9	39	VAL
8	t9	65	ASP
8	t9	127	THR
8	t9	142	VAL

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Mol	Chain	Res	Type
8	t9	158	SER
8	t9	161	LEU
7	u9	23	LEU
7	u9	24	ASP
7	u9	56	ASP
7	u9	64	ASP
7	u9	78	THR
7	u9	93	THR
7	u9	100	ASP
7	u9	102	THR
7	u9	104	ILE
7	u9	105	GLU
7	u9	123	ILE
8	v9	4	ASP
8	v9	18	LYS
8	v9	34	THR
8	v9	37	LEU
8	v9	39	VAL
8	v9	65	ASP
8	v9	127	THR
8	v9	142	VAL
8	v9	158	SER
8	v9	161	LEU
7	w9	23	LEU
7	w9	24	ASP
7	w9	56	ASP
7	w9	64	ASP
7	w9	78	THR
7	w9	93	THR
7	w9	100	ASP
7	w9	102	THR
7	w9	104	ILE
7	w9	105	GLU
7	w9	123	ILE
8	x9	4	ASP
8	x9	18	LYS
8	x9	34	THR
8	x9	37	LEU
8	x9	39	VAL
8	x9	65	ASP
8	x9	127	THR
8	x9	142	VAL

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Mol	Chain	Res	Type
8	x9	158	SER
8	x9	161	LEU
7	y9	23	LEU
7	y9	24	ASP
7	y9	56	ASP
7	y9	64	ASP
7	y9	78	THR
7	y9	93	THR
7	y9	100	ASP
7	y9	102	THR
7	y9	104	ILE
7	y9	105	GLU
7	y9	123	ILE
8	z9	4	ASP
8	z9	18	LYS
8	z9	34	THR
8	z9	37	LEU
8	z9	39	VAL
8	z9	65	ASP
8	z9	127	THR
8	z9	142	VAL
8	z9	158	SER
8	z9	161	LEU
5	AA	131	ILE
5	AA	166	ARG
5	AA	174	LEU
5	AA	210	GLN
2	BA	2	VAL
2	BA	10	ILE
2	BA	18	ARG
2	BA	31	ARG
2	BA	40	GLU
2	BA	47	SER
2	BA	67	THR
2	BA	70	THR
2	BA	79	SER
2	BA	97	THR
2	BA	101	VAL
2	BA	121	SER
2	BA	126	SER
2	BA	131	VAL
2	BA	143	LEU

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Mol	Chain	Res	Type
3	CA	4	ASP
3	CA	18	GLU
3	CA	23	GLU
3	CA	39	LEU
3	CA	41	VAL
3	CA	42	VAL
3	CA	54	THR
3	CA	68	ILE
3	CA	87	MET
3	CA	88	GLU
3	CA	90	ILE
3	CA	102	ASP
3	CA	126	SER
3	CA	132	VAL
3	CA	133	GLN
3	CA	134	LYS
3	CA	137	ASP
3	CA	142	ILE
3	CA	149	ILE
3	CA	157	LEU
3	CA	161	VAL
2	DA	2	VAL
2	DA	10	ILE
2	DA	18	ARG
2	DA	40	GLU
2	DA	47	SER
2	DA	67	THR
2	DA	70	THR
2	DA	79	SER
2	DA	97	THR
2	DA	101	VAL
2	DA	121	SER
2	DA	126	SER
2	DA	131	VAL
2	DA	143	LEU
3	EA	4	ASP
3	EA	18	GLU
3	EA	23	GLU
3	EA	39	LEU
3	EA	41	VAL
3	EA	42	VAL
3	EA	54	THR

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Mol	Chain	Res	Type
3	EA	68	ILE
3	EA	87	MET
3	EA	88	GLU
3	EA	90	ILE
3	EA	102	ASP
3	EA	126	SER
3	EA	132	VAL
3	EA	133	GLN
3	EA	134	LYS
3	EA	137	ASP
3	EA	142	ILE
3	EA	149	ILE
3	EA	157	LEU
3	EA	161	VAL
2	FA	2	VAL
2	FA	10	ILE
2	FA	18	ARG
2	FA	31	ARG
2	FA	40	GLU
2	FA	47	SER
2	FA	67	THR
2	FA	70	THR
2	FA	79	SER
2	FA	97	THR
2	FA	101	VAL
2	FA	121	SER
2	FA	126	SER
2	FA	131	VAL
2	FA	143	LEU
3	GA	4	ASP
3	GA	18	GLU
3	GA	23	GLU
3	GA	39	LEU
3	GA	41	VAL
3	GA	42	VAL
3	GA	54	THR
3	GA	68	ILE
3	GA	87	MET
3	GA	88	GLU
3	GA	90	ILE
3	GA	102	ASP
3	GA	126	SER

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Mol	Chain	Res	Type
3	GA	132	VAL
3	GA	133	GLN
3	GA	134	LYS
3	GA	137	ASP
3	GA	142	ILE
3	GA	157	LEU
3	GA	161	VAL
2	HA	2	VAL
2	HA	10	ILE
2	HA	18	ARG
2	HA	40	GLU
2	HA	47	SER
2	HA	67	THR
2	HA	70	THR
2	HA	79	SER
2	HA	97	THR
2	HA	101	VAL
2	HA	121	SER
2	HA	126	SER
2	HA	131	VAL
2	HA	143	LEU
3	IA	4	ASP
3	IA	18	GLU
3	IA	23	GLU
3	IA	39	LEU
3	IA	41	VAL
3	IA	42	VAL
3	IA	54	THR
3	IA	68	ILE
3	IA	87	MET
3	IA	88	GLU
3	IA	90	ILE
3	IA	102	ASP
3	IA	126	SER
3	IA	132	VAL
3	IA	133	GLN
3	IA	134	LYS
3	IA	137	ASP
3	IA	147	ASN
3	IA	149	ILE
3	IA	161	VAL
2	JA	2	VAL

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Mol	Chain	Res	Type
2	JA	10	ILE
2	JA	18	ARG
2	JA	31	ARG
2	JA	40	GLU
2	JA	47	SER
2	JA	67	THR
2	JA	70	THR
2	JA	79	SER
2	JA	97	THR
2	JA	101	VAL
2	JA	121	SER
2	JA	126	SER
2	JA	131	VAL
2	JA	143	LEU
3	KA	4	ASP
3	KA	18	GLU
3	KA	23	GLU
3	KA	39	LEU
3	KA	41	VAL
3	KA	42	VAL
3	KA	54	THR
3	KA	68	ILE
3	KA	87	MET
3	KA	88	GLU
3	KA	90	ILE
3	KA	102	ASP
3	KA	126	SER
3	KA	132	VAL
3	KA	133	GLN
3	KA	134	LYS
3	KA	137	ASP
3	KA	142	ILE
3	KA	154	CYS
3	KA	161	VAL
2	LA	2	VAL
2	LA	10	ILE
2	LA	18	ARG
2	LA	31	ARG
2	LA	40	GLU
2	LA	47	SER
2	LA	67	THR
2	LA	70	THR

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Mol	Chain	Res	Type
2	LA	79	SER
2	LA	97	THR
2	LA	101	VAL
2	LA	121	SER
2	LA	126	SER
2	LA	131	VAL
2	LA	143	LEU
3	MA	4	ASP
3	MA	18	GLU
3	MA	23	GLU
3	MA	39	LEU
3	MA	41	VAL
3	MA	42	VAL
3	MA	54	THR
3	MA	68	ILE
3	MA	87	MET
3	MA	88	GLU
3	MA	90	ILE
3	MA	102	ASP
3	MA	126	SER
3	MA	132	VAL
3	MA	133	GLN
3	MA	134	LYS
3	MA	137	ASP
3	MA	142	ILE
3	MA	154	CYS
3	MA	157	LEU
3	MA	161	VAL
4	NA	230	VAL
2	OA	2	VAL
2	OA	10	ILE
2	OA	18	ARG
2	OA	40	GLU
2	OA	47	SER
2	OA	67	THR
2	OA	70	THR
2	OA	79	SER
2	OA	97	THR
2	OA	101	VAL
2	OA	121	SER
2	OA	126	SER
2	OA	131	VAL

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Mol	Chain	Res	Type
2	OA	143	LEU
3	PA	4	ASP
3	PA	18	GLU
3	PA	23	GLU
3	PA	39	LEU
3	PA	41	VAL
3	PA	42	VAL
3	PA	54	THR
3	PA	68	ILE
3	PA	87	MET
3	PA	88	GLU
3	PA	90	ILE
3	PA	102	ASP
3	PA	126	SER
3	PA	132	VAL
3	PA	133	GLN
3	PA	134	LYS
3	PA	137	ASP
3	PA	142	ILE
3	PA	154	CYS
3	PA	161	VAL
2	QA	2	VAL
2	QA	10	ILE
2	QA	18	ARG
2	QA	31	ARG
2	QA	34	ARG
2	QA	40	GLU
2	QA	47	SER
2	QA	67	THR
2	QA	70	THR
2	QA	79	SER
2	QA	97	THR
2	QA	101	VAL
2	QA	121	SER
2	QA	126	SER
2	QA	131	VAL
2	QA	143	LEU
3	RA	4	ASP
3	RA	18	GLU
3	RA	23	GLU
3	RA	39	LEU
3	RA	41	VAL

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Mol	Chain	Res	Type
3	RA	42	VAL
3	RA	54	THR
3	RA	68	ILE
3	RA	87	MET
3	RA	88	GLU
3	RA	90	ILE
3	RA	102	ASP
3	RA	126	SER
3	RA	132	VAL
3	RA	133	GLN
3	RA	134	LYS
3	RA	137	ASP
3	RA	142	ILE
3	RA	149	ILE
3	RA	161	VAL
2	SA	2	VAL
2	SA	10	ILE
2	SA	18	ARG
2	SA	31	ARG
2	SA	33	GLU
2	SA	40	GLU
2	SA	47	SER
2	SA	67	THR
2	SA	70	THR
2	SA	79	SER
2	SA	97	THR
2	SA	101	VAL
2	SA	121	SER
2	SA	126	SER
2	SA	131	VAL
2	SA	143	LEU
3	TA	4	ASP
3	TA	18	GLU
3	TA	23	GLU
3	TA	39	LEU
3	TA	41	VAL
3	TA	42	VAL
3	TA	54	THR
3	TA	68	ILE
3	TA	87	MET
3	TA	88	GLU
3	TA	90	ILE

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Mol	Chain	Res	Type
3	TA	102	ASP
3	TA	126	SER
3	TA	132	VAL
3	TA	133	GLN
3	TA	134	LYS
3	TA	137	ASP
3	TA	142	ILE
3	TA	149	ILE
3	TA	157	LEU
3	TA	161	VAL
2	UA	2	VAL
2	UA	10	ILE
2	UA	18	ARG
2	UA	40	GLU
2	UA	47	SER
2	UA	67	THR
2	UA	70	THR
2	UA	79	SER
2	UA	97	THR
2	UA	101	VAL
2	UA	121	SER
2	UA	126	SER
2	UA	131	VAL
2	UA	143	LEU
3	VA	4	ASP
3	VA	18	GLU
3	VA	23	GLU
3	VA	39	LEU
3	VA	41	VAL
3	VA	42	VAL
3	VA	54	THR
3	VA	68	ILE
3	VA	87	MET
3	VA	88	GLU
3	VA	90	ILE
3	VA	102	ASP
3	VA	126	SER
3	VA	132	VAL
3	VA	133	GLN
3	VA	134	LYS
3	VA	137	ASP
3	VA	154	CYS

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Mol	Chain	Res	Type
3	VA	161	VAL
2	WA	2	VAL
2	WA	10	ILE
2	WA	18	ARG
2	WA	34	ARG
2	WA	40	GLU
2	WA	47	SER
2	WA	67	THR
2	WA	70	THR
2	WA	79	SER
2	WA	97	THR
2	WA	101	VAL
2	WA	121	SER
2	WA	126	SER
2	WA	131	VAL
2	WA	143	LEU
3	XA	4	ASP
3	XA	18	GLU
3	XA	23	GLU
3	XA	39	LEU
3	XA	41	VAL
3	XA	42	VAL
3	XA	54	THR
3	XA	68	ILE
3	XA	87	MET
3	XA	88	GLU
3	XA	90	ILE
3	XA	102	ASP
3	XA	126	SER
3	XA	132	VAL
3	XA	133	GLN
3	XA	134	LYS
3	XA	137	ASP
3	XA	142	ILE
3	XA	145	ASP
3	XA	157	LEU
3	XA	161	VAL
2	YA	2	VAL
2	YA	10	ILE
2	YA	18	ARG
2	YA	31	ARG
2	YA	40	GLU

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Mol	Chain	Res	Type
2	YA	47	SER
2	YA	67	THR
2	YA	70	THR
2	YA	79	SER
2	YA	97	THR
2	YA	101	VAL
2	YA	121	SER
2	YA	126	SER
2	YA	131	VAL
2	YA	143	LEU
3	ZA	4	ASP
3	ZA	18	GLU
3	ZA	23	GLU
3	ZA	39	LEU
3	ZA	41	VAL
3	ZA	42	VAL
3	ZA	54	THR
3	ZA	68	ILE
3	ZA	87	MET
3	ZA	88	GLU
3	ZA	90	ILE
3	ZA	102	ASP
3	ZA	126	SER
3	ZA	132	VAL
3	ZA	133	GLN
3	ZA	134	LYS
3	ZA	137	ASP
3	ZA	147	ASN
3	ZA	157	LEU
3	ZA	161	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (598) such sidechains are listed below:

Mol	Chain	Res	Type
1	A1	120	ASN
1	A1	161	GLN
2	B1	22	ASN
2	B1	136	HIS
2	B1	140	ASN
3	C1	64	GLN
3	C1	147	ASN
3	E1	43	ASN

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Mol	Chain	Res	Type
3	E1	64	GLN
3	E1	73	ASN
2	F1	22	ASN
2	F1	136	HIS
2	F1	140	ASN
3	G1	36	ASN
3	G1	43	ASN
3	G1	73	ASN
3	G1	147	ASN
2	H1	22	ASN
2	H1	152	ASN
3	I1	43	ASN
3	I1	73	ASN
2	J1	22	ASN
3	K1	64	GLN
3	K1	147	ASN
2	L1	146	GLN
3	M1	43	ASN
3	M1	73	ASN
3	M1	147	ASN
4	N1	140	GLN
4	N1	182	GLN
4	N1	274	HIS
2	O1	22	ASN
3	P1	43	ASN
3	P1	77	ASN
3	P1	147	ASN
2	Q1	22	ASN
3	R1	43	ASN
3	R1	73	ASN
2	S1	22	ASN
3	T1	43	ASN
3	T1	147	ASN
2	U1	22	ASN
3	V1	43	ASN
3	V1	64	GLN
3	V1	77	ASN
3	V1	147	ASN
2	W1	22	ASN
3	X1	36	ASN
3	X1	43	ASN
3	X1	73	ASN

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Mol	Chain	Res	Type
3	X1	77	ASN
3	X1	147	ASN
3	Z1	43	ASN
3	Z1	64	GLN
3	Z1	147	ASN
5	A2	73	GLN
5	A2	104	ASN
5	A2	228	ASN
2	B2	26	GLN
2	B2	146	GLN
3	C2	43	ASN
3	C2	112	ASN
3	C2	133	GLN
3	C2	144	ASN
2	D2	146	GLN
3	E2	43	ASN
2	F2	146	GLN
3	G2	43	ASN
3	G2	66	GLN
3	G2	73	ASN
2	H2	146	GLN
3	I2	43	ASN
3	I2	73	ASN
2	J2	146	GLN
3	K2	43	ASN
3	K2	73	ASN
3	M2	48	ASN
3	M2	112	ASN
4	N2	166	ASN
4	N2	177	ASN
4	N2	225	ASN
2	O2	146	GLN
3	P2	43	ASN
3	P2	48	ASN
2	Q2	146	GLN
3	R2	43	ASN
2	S2	146	GLN
2	S2	149	ASN
3	T2	43	ASN
3	T2	48	ASN
3	T2	66	GLN
3	T2	156	GLN

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Mol	Chain	Res	Type
3	V2	36	ASN
3	V2	43	ASN
3	V2	73	ASN
3	V2	144	ASN
3	X2	43	ASN
3	X2	48	ASN
2	Y2	22	ASN
2	Y2	74	GLN
2	Y2	146	GLN
3	Z2	43	ASN
3	Z2	48	ASN
3	Z2	73	ASN
3	Z2	147	ASN
6	A3	13	GLN
6	A3	52	GLN
6	A3	57	HIS
6	A3	100	ASN
6	A3	137	HIS
2	B3	26	GLN
2	B3	146	GLN
3	C3	43	ASN
3	C3	112	ASN
3	C3	144	ASN
2	D3	146	GLN
3	E3	43	ASN
2	F3	146	GLN
3	G3	43	ASN
2	H3	146	GLN
3	I3	43	ASN
3	I3	73	ASN
3	I3	144	ASN
2	J3	140	ASN
2	J3	146	GLN
3	K3	43	ASN
3	K3	73	ASN
3	K3	144	ASN
3	M3	48	ASN
1	A4	67	ASN
1	A4	120	ASN
1	A4	161	GLN
2	B4	136	HIS
2	B4	140	ASN

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Mol	Chain	Res	Type
3	C4	64	GLN
3	C4	147	ASN
3	E4	43	ASN
3	E4	64	GLN
3	E4	73	ASN
2	F4	22	ASN
2	F4	136	HIS
2	F4	140	ASN
3	G4	36	ASN
3	G4	43	ASN
3	G4	73	ASN
3	G4	147	ASN
2	H4	22	ASN
2	H4	152	ASN
3	I4	43	ASN
3	I4	73	ASN
2	J4	22	ASN
3	K4	64	GLN
3	K4	147	ASN
2	L4	146	GLN
3	M4	43	ASN
4	N4	140	GLN
4	N4	182	GLN
4	N4	274	HIS
2	O4	22	ASN
3	P4	77	ASN
3	P4	147	ASN
2	Q4	22	ASN
3	R4	43	ASN
3	R4	73	ASN
3	R4	147	ASN
3	T4	43	ASN
3	T4	147	ASN
2	U4	22	ASN
3	V4	43	ASN
3	V4	64	GLN
3	V4	77	ASN
3	V4	147	ASN
2	W4	22	ASN
3	X4	36	ASN
3	X4	43	ASN
3	X4	73	ASN

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Mol	Chain	Res	Type
3	X4	77	ASN
2	Y4	26	GLN
3	Z4	43	ASN
3	Z4	64	GLN
3	Z4	147	ASN
5	A5	59	HIS
5	A5	65	ASN
5	A5	73	GLN
5	A5	122	ASN
5	A5	210	GLN
5	A5	228	ASN
2	B5	26	GLN
2	B5	62	GLN
2	B5	146	GLN
3	C5	43	ASN
2	D5	149	ASN
3	E5	36	ASN
2	F5	146	GLN
3	G5	77	ASN
2	H5	26	GLN
2	H5	146	GLN
3	I5	48	ASN
3	I5	119	GLN
2	J5	149	ASN
2	L5	149	ASN
4	N5	89	ASN
4	N5	92	GLN
4	N5	123	ASN
4	N5	140	GLN
4	N5	142	ASN
4	N5	177	ASN
4	N5	182	GLN
4	N5	272	GLN
4	N5	276	GLN
2	O5	26	GLN
2	O5	149	ASN
2	Q5	146	GLN
3	R5	36	ASN
3	R5	66	GLN
2	S5	26	GLN
2	S5	146	GLN
3	T5	73	ASN

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Mol	Chain	Res	Type
2	U5	26	GLN
2	U5	50	GLN
2	U5	149	ASN
3	V5	48	ASN
2	W5	149	ASN
3	X5	156	GLN
2	Y5	146	GLN
3	Z5	43	ASN
5	A6	73	GLN
5	A6	104	ASN
5	A6	229	GLN
2	B6	26	GLN
2	B6	146	GLN
3	C6	43	ASN
3	C6	48	ASN
3	C6	112	ASN
3	C6	133	GLN
3	C6	144	ASN
2	D6	146	GLN
3	E6	43	ASN
3	E6	119	GLN
2	F6	146	GLN
3	G6	43	ASN
3	G6	66	GLN
3	G6	73	ASN
2	H6	146	GLN
3	I6	43	ASN
3	I6	73	ASN
3	I6	144	ASN
2	J6	146	GLN
3	K6	43	ASN
3	K6	73	ASN
3	K6	144	ASN
3	M6	48	ASN
3	M6	112	ASN
4	N6	166	ASN
4	N6	177	ASN
4	N6	225	ASN
2	O6	146	GLN
3	P6	43	ASN
3	P6	48	ASN
2	Q6	146	GLN

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Mol	Chain	Res	Type
3	R6	43	ASN
2	S6	146	GLN
2	S6	149	ASN
3	T6	43	ASN
3	T6	66	GLN
3	T6	156	GLN
3	V6	36	ASN
3	V6	43	ASN
3	V6	73	ASN
3	V6	144	ASN
3	X6	43	ASN
3	X6	48	ASN
2	Y6	22	ASN
2	Y6	74	GLN
2	Y6	146	GLN
3	Z6	43	ASN
3	Z6	48	ASN
3	Z6	147	ASN
6	A7	13	GLN
6	A7	52	GLN
6	A7	57	HIS
6	A7	100	ASN
2	B7	26	GLN
2	B7	146	GLN
3	C7	43	ASN
3	C7	112	ASN
3	C7	144	ASN
2	D7	146	GLN
3	E7	43	ASN
2	F7	146	GLN
3	G7	43	ASN
2	H7	146	GLN
3	I7	43	ASN
3	I7	73	ASN
3	I7	144	ASN
2	J7	146	GLN
3	K7	43	ASN
3	K7	73	ASN
3	K7	144	ASN
3	M7	48	ASN
7	A8	53	GLN
7	A8	57	GLN

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Mol	Chain	Res	Type
7	A8	71	ASN
7	C8	53	GLN
7	C8	57	GLN
7	C8	71	ASN
8	D8	3	GLN
8	D8	118	ASN
7	E8	53	GLN
7	E8	57	GLN
7	E8	71	ASN
8	F8	118	ASN
9	G8	36	ASN
9	G8	42	GLN
7	H8	53	GLN
7	H8	57	GLN
7	H8	71	ASN
7	J8	53	GLN
7	J8	57	GLN
7	J8	71	ASN
7	L8	53	GLN
7	L8	57	GLN
7	L8	71	ASN
8	M8	118	ASN
9	N8	42	GLN
7	O8	53	GLN
7	O8	57	GLN
7	O8	71	ASN
8	P8	111	ASN
7	Q8	53	GLN
7	Q8	57	GLN
7	Q8	71	ASN
8	R8	118	ASN
7	S8	53	GLN
7	S8	57	GLN
7	S8	71	ASN
8	T8	118	ASN
9	U8	36	ASN
9	U8	42	GLN
7	V8	53	GLN
7	V8	57	GLN
7	V8	71	ASN
8	W8	16	GLN
8	W8	111	ASN

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Mol	Chain	Res	Type
8	W8	118	ASN
7	X8	53	GLN
7	X8	57	GLN
7	X8	71	ASN
7	Z8	53	GLN
7	Z8	57	GLN
7	Z8	71	ASN
8	a8	16	GLN
8	a8	118	ASN
9	b8	24	GLN
9	b8	42	GLN
7	c8	53	GLN
7	c8	57	GLN
7	c8	71	ASN
8	d8	3	GLN
8	d8	111	ASN
8	d8	118	ASN
7	e8	53	GLN
7	e8	57	GLN
7	e8	71	ASN
8	f8	111	ASN
8	f8	118	ASN
7	g8	53	GLN
7	g8	57	GLN
7	g8	71	ASN
8	h8	111	ASN
8	h8	118	ASN
9	i8	24	GLN
9	i8	36	ASN
9	i8	42	GLN
7	j8	53	GLN
7	j8	57	GLN
7	j8	71	ASN
8	k8	111	ASN
8	k8	118	ASN
7	l8	53	GLN
7	l8	57	GLN
7	l8	71	ASN
7	n8	53	GLN
7	n8	57	GLN
7	n8	60	GLN
7	n8	71	ASN

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Mol	Chain	Res	Type
7	n8	75	GLN
8	o8	72	ASN
8	o8	129	GLN
7	p8	53	GLN
7	p8	57	GLN
7	p8	71	ASN
8	q8	111	ASN
8	q8	118	ASN
7	r8	53	GLN
7	r8	57	GLN
7	r8	71	ASN
8	s8	118	ASN
7	t8	53	GLN
7	t8	57	GLN
7	t8	60	GLN
7	t8	71	ASN
7	t8	75	GLN
8	u8	118	ASN
10	09	27	GLN
10	09	30	GLN
10	09	63	ASN
10	09	206	GLN
10	09	248	GLN
10	09	435	GLN
10	09	463	GLN
10	09	576	ASN
10	09	705	ASN
10	09	751	GLN
10	09	791	ASN
10	09	835	GLN
10	09	848	GLN
10	09	851	ASN
10	09	871	ASN
10	09	885	GLN
10	09	886	ASN
10	09	919	GLN
10	09	938	ASN
10	09	989	GLN
10	09	1005	ASN
10	09	1033	ASN
10	09	1052	GLN
10	09	1059	ASN

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Mol	Chain	Res	Type
10	09	1101	ASN
10	19	179	ASN
10	19	285	ASN
10	19	317	ASN
10	19	368	GLN
10	19	412	GLN
10	19	420	GLN
10	19	421	GLN
10	19	503	ASN
10	19	546	GLN
10	19	570	GLN
10	19	722	GLN
10	19	830	GLN
10	19	842	ASN
10	19	846	ASN
10	19	886	ASN
10	19	943	GLN
10	19	989	GLN
10	19	1033	ASN
10	19	1059	ASN
10	19	1101	ASN
9	39	20	GLN
9	39	24	GLN
9	39	64	ASN
9	49	24	GLN
9	49	25	ASN
9	49	64	ASN
7	A9	46	ASN
7	A9	57	GLN
8	B9	3	GLN
8	B9	111	ASN
7	C9	46	ASN
7	C9	57	GLN
7	C9	60	GLN
8	D9	3	GLN
7	E9	34	GLN
7	E9	46	ASN
7	E9	57	GLN
8	F9	3	GLN
7	G9	57	GLN
8	H9	3	GLN
7	I9	34	GLN

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Mol	Chain	Res	Type
7	I9	46	ASN
7	I9	57	GLN
8	J9	3	GLN
8	J9	111	ASN
7	K9	46	ASN
7	K9	57	GLN
8	L9	3	GLN
8	M9	3	GLN
7	N9	10	ASN
7	N9	46	ASN
7	N9	57	GLN
7	N9	75	GLN
8	O9	3	GLN
8	O9	129	GLN
7	P9	46	ASN
7	P9	57	GLN
11	Q9	111	GLN
11	Q9	159	HIS
7	R9	46	ASN
7	R9	57	GLN
8	S9	3	GLN
8	S9	111	ASN
7	T9	46	ASN
7	T9	57	GLN
8	U9	3	GLN
12	V9	10	GLN
12	V9	71	ASN
12	V9	158	GLN
8	W9	3	GLN
7	X9	34	GLN
7	X9	46	ASN
7	X9	57	GLN
8	Y9	3	GLN
8	Y9	111	ASN
7	Z9	46	ASN
7	Z9	57	GLN
7	b9	57	GLN
8	c9	3	GLN
7	d9	10	ASN
7	d9	46	ASN
7	d9	57	GLN
7	d9	75	GLN

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Mol	Chain	Res	Type
8	e9	3	GLN
8	e9	111	ASN
7	f9	46	ASN
7	f9	57	GLN
11	g9	72	ASN
11	g9	111	GLN
8	h9	3	GLN
7	i9	46	ASN
7	i9	57	GLN
8	j9	3	GLN
8	j9	111	ASN
7	k9	46	ASN
7	k9	57	GLN
7	k9	60	GLN
8	l9	3	GLN
12	m9	10	GLN
12	m9	71	ASN
8	n9	3	GLN
7	o9	10	ASN
7	o9	46	ASN
7	o9	57	GLN
8	p9	3	GLN
8	p9	111	ASN
7	q9	46	ASN
7	q9	57	GLN
8	r9	3	GLN
7	s9	34	GLN
7	s9	46	ASN
7	s9	57	GLN
8	t9	3	GLN
8	t9	129	GLN
7	u9	46	ASN
7	u9	57	GLN
8	v9	3	GLN
8	v9	111	ASN
7	w9	46	ASN
7	w9	57	GLN
8	x9	3	GLN
7	y9	46	ASN
7	y9	57	GLN
8	z9	3	GLN
5	AA	45	GLN

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Mol	Chain	Res	Type
5	AA	59	HIS
5	AA	65	ASN
5	AA	73	GLN
5	AA	122	ASN
5	AA	210	GLN
5	AA	228	ASN
2	BA	26	GLN
2	BA	58	GLN
2	BA	62	GLN
2	BA	146	GLN
3	CA	43	ASN
2	DA	149	ASN
2	FA	146	GLN
2	HA	26	GLN
2	HA	146	GLN
3	IA	48	ASN
3	IA	119	GLN
2	JA	149	ASN
3	KA	147	ASN
2	LA	149	ASN
4	NA	89	ASN
4	NA	123	ASN
4	NA	140	GLN
4	NA	142	ASN
4	NA	177	ASN
4	NA	182	GLN
4	NA	225	ASN
4	NA	272	GLN
4	NA	276	GLN
2	OA	149	ASN
2	QA	146	GLN
3	RA	36	ASN
3	RA	66	GLN
2	SA	26	GLN
2	SA	146	GLN
3	TA	12	GLN
3	TA	73	ASN
2	UA	26	GLN
2	UA	149	ASN
3	VA	48	ASN
2	WA	149	ASN
3	XA	156	GLN

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Mol	Chain	Res	Type
2	YA	146	GLN
3	ZA	43	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

348 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
13	CYC	X9	1001	-	42,46,46	3.24	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	i9	1001	-	42,46,46	3.24	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	VA	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	Z6	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.99	2 (4%)
13	CYC	M5	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	F6	1001	-	42,46,46	3.26	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	P6	201	-	42,46,46	1.08	1 (2%)	50,67,67	1.06	3 (6%)
13	CYC	R2	1001	-	42,46,46	3.27	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	q9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.33	21 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CYC	J8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.07	22 (44%)
13	CYC	t8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	V1	201	-	42,46,46	1.04	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	t9	1001	-	42,46,46	3.20	12 (28%)	50,67,67	4.04	24 (48%)
13	CYC	C4	301	3	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	I2	202	-	42,46,46	1.03	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	O5	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	X6	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	O4	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	L3	201	-	42,46,46	3.22	15 (35%)	50,67,67	3.12	20 (40%)
13	CYC	G5	201	-	42,46,46	1.05	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	K3	201	-	42,46,46	1.09	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	Z9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	V6	201	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	VA	201	-	42,46,46	3.42	14 (33%)	50,67,67	3.13	24 (48%)
13	CYC	J4	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	K2	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	g8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	I3	201	-	42,46,46	3.47	14 (33%)	50,67,67	3.13	24 (48%)
13	CYC	RA	201	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	G6	202	3	42,46,46	3.27	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	Y1	201	-	42,46,46	3.23	15 (35%)	50,67,67	3.10	21 (42%)
13	CYC	R9	1001	-	42,46,46	3.24	13 (30%)	50,67,67	3.33	21 (42%)
13	CYC	A3	301	-	42,46,46	3.22	14 (33%)	50,67,67	3.11	21 (42%)
13	CYC	Q6	201	-	42,46,46	3.26	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	M8	1001	-	42,46,46	3.45	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	D6	1001	-	42,46,46	3.22	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	S5	1001	-	42,46,46	3.25	14 (33%)	50,67,67	3.10	21 (42%)
13	CYC	B1	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	Z5	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	M2	201	-	42,46,46	1.10	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	N9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	JA	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	SA	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	L1	201	-	42,46,46	3.23	15 (35%)	50,67,67	3.12	21 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CYC	V2	202	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	O8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	F7	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	R5	201	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	TA	201	-	42,46,46	3.42	14 (33%)	50,67,67	3.14	24 (48%)
13	CYC	E4	201	3	42,46,46	3.32	15 (35%)	50,67,67	2.97	22 (44%)
13	CYC	E1	201	3	42,46,46	3.31	15 (35%)	50,67,67	2.98	22 (44%)
13	CYC	s9	1001	-	42,46,46	3.24	13 (30%)	50,67,67	3.33	21 (42%)
13	CYC	KA	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	V9	201	-	42,46,46	3.21	14 (33%)	50,67,67	3.00	19 (38%)
13	CYC	P5	203	-	42,46,46	3.25	14 (33%)	50,67,67	3.12	21 (42%)
13	CYC	B7	1001	-	42,46,46	3.22	14 (33%)	50,67,67	3.13	20 (40%)
13	CYC	K3	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	l8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.07	22 (44%)
13	CYC	Z4	202	-	42,46,46	3.25	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	WA	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	XA	201	-	42,46,46	3.42	14 (33%)	50,67,67	3.16	24 (48%)
13	CYC	N3	301	-	42,46,46	1.04	1 (2%)	50,67,67	1.08	4 (8%)
13	CYC	S9	1001	-	42,46,46	3.22	12 (28%)	50,67,67	4.05	24 (48%)
13	CYC	Z6	202	-	42,46,46	3.26	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	G2	201	-	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	D1	1001	-	42,46,46	3.22	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	Q2	201	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	E5	201	-	42,46,46	1.07	1 (2%)	50,67,67	1.00	2 (4%)
13	CYC	A5	303	-	42,46,46	3.41	15 (35%)	50,67,67	3.11	24 (48%)
13	CYC	E6	202	3	42,46,46	1.07	1 (2%)	50,67,67	1.00	2 (4%)
13	CYC	J2	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	q8	1001	-	42,46,46	3.45	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	E2	202	3	42,46,46	1.06	1 (2%)	50,67,67	1.00	2 (4%)
13	CYC	c9	1001	-	42,46,46	3.23	12 (28%)	50,67,67	4.06	25 (50%)
13	CYC	S4	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	z9	1001	-	42,46,46	3.22	12 (28%)	50,67,67	4.06	24 (48%)
13	CYC	K5	201	-	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	f9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.33	21 (42%)
13	CYC	YA	201	-	42,46,46	3.25	15 (35%)	50,67,67	3.10	21 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CYC	AA	302	-	42,46,46	3.34	15 (35%)	50,67,67	2.97	22 (44%)
13	CYC	A5	301	-	42,46,46	3.31	15 (35%)	50,67,67	2.98	22 (44%)
13	CYC	K7	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	d9	1001	-	42,46,46	3.24	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	M1	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	OA	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.10	21 (42%)
13	CYC	X1	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	NA	301	-	42,46,46	3.44	15 (35%)	50,67,67	3.16	24 (48%)
13	CYC	U2	202	-	42,46,46	3.27	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	J7	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	e9	1001	-	42,46,46	3.20	12 (28%)	50,67,67	4.04	24 (48%)
13	CYC	F8	1001	-	42,46,46	3.45	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	I5	202	-	42,46,46	1.03	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	I1	201	3	42,46,46	3.46	14 (33%)	50,67,67	3.14	24 (48%)
13	CYC	PA	202	-	42,46,46	1.00	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	W4	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	j9	1001	-	42,46,46	3.20	12 (28%)	50,67,67	4.05	24 (48%)
13	CYC	M7	201	-	42,46,46	1.10	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	PA	203	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	Q1	201	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	XA	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	o9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.33	21 (42%)
13	CYC	B2	1001	-	42,46,46	3.21	14 (33%)	50,67,67	3.12	21 (42%)
13	CYC	L5	201	-	42,46,46	3.24	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	J6	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	B5	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	19	1205	-	42,46,46	3.21	12 (28%)	50,67,67	4.06	24 (48%)
13	CYC	I8	1001	-	42,46,46	3.45	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	X8	1001	-	42,46,46	3.21	12 (28%)	50,67,67	3.09	22 (44%)
13	CYC	AA	303	-	42,46,46	3.41	15 (35%)	50,67,67	3.10	23 (46%)
13	CYC	E8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	C6	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	19	1202	10	42,46,46	3.21	13 (30%)	50,67,67	3.53	23 (46%)
13	CYC	D4	1001	-	42,46,46	3.22	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	M4	201	3	42,46,46	1.04	1 (2%)	50,67,67	1.09	4 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CYC	Y6	201	-	42,46,46	3.23	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	B6	1001	-	42,46,46	3.22	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	M5	1003	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	V4	202	-	42,46,46	3.26	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	R4	1001	3	42,46,46	3.25	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	G6	201	-	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	X6	201	-	42,46,46	3.43	14 (33%)	50,67,67	3.16	24 (48%)
13	CYC	E6	201	-	42,46,46	3.30	15 (35%)	50,67,67	2.97	22 (44%)
13	CYC	Q9	201	11	42,46,46	3.22	14 (33%)	50,67,67	2.91	20 (40%)
13	CYC	I4	201	3	42,46,46	3.46	14 (33%)	50,67,67	3.14	24 (48%)
13	CYC	C7	201	-	42,46,46	1.09	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	D7	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	L6	201	-	42,46,46	3.23	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	V2	201	-	42,46,46	1.05	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	Y2	201	-	42,46,46	3.24	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	E7	202	3	42,46,46	1.07	1 (2%)	50,67,67	1.00	2 (4%)
13	CYC	S2	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	E7	201	-	42,46,46	3.31	15 (35%)	50,67,67	2.97	22 (44%)
13	CYC	P5	201	-	42,46,46	1.07	1 (2%)	50,67,67	1.06	3 (6%)
13	CYC	J9	1001	-	42,46,46	3.21	13 (30%)	50,67,67	4.05	24 (48%)
13	CYC	M3	201	-	42,46,46	1.09	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	T1	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	G1	201	-	42,46,46	1.05	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	A7	301	-	42,46,46	3.23	14 (33%)	50,67,67	3.10	21 (42%)
13	CYC	E3	202	3	42,46,46	1.08	1 (2%)	50,67,67	1.01	2 (4%)
13	CYC	R6	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	X4	201	-	42,46,46	3.43	14 (33%)	50,67,67	3.16	24 (48%)
13	CYC	UA	1001	-	42,46,46	3.26	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	V5	202	-	42,46,46	1.05	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	W8	1001	-	42,46,46	3.45	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	J3	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	G7	201	3	42,46,46	3.26	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	C2	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	d8	1001	-	42,46,46	3.45	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	P4	201	-	42,46,46	1.06	1 (2%)	50,67,67	1.07	3 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CYC	A8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	O2	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	R8	1001	-	42,46,46	3.44	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	Z8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	M5	1002	-	42,46,46	1.04	1 (2%)	50,67,67	1.08	4 (8%)
13	CYC	E2	201	-	42,46,46	3.31	15 (35%)	50,67,67	2.96	22 (44%)
13	CYC	K4	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	I7	201	-	42,46,46	3.47	14 (33%)	50,67,67	3.13	24 (48%)
13	CYC	P8	1001	-	42,46,46	3.44	14 (33%)	50,67,67	2.94	21 (42%)
13	CYC	19	1204	-	42,46,46	3.21	12 (28%)	50,67,67	4.05	24 (48%)
13	CYC	E5	202	-	42,46,46	3.25	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	H2	1001	-	42,46,46	3.25	14 (33%)	50,67,67	3.09	21 (42%)
13	CYC	X1	201	-	42,46,46	3.44	14 (33%)	50,67,67	3.17	24 (48%)
13	CYC	A5	302	-	42,46,46	3.33	15 (35%)	50,67,67	2.96	22 (44%)
13	CYC	IA	202	-	42,46,46	1.03	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	D2	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	e8	1001	-	42,46,46	3.21	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	U1	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.10	21 (42%)
13	CYC	K6	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	Q8	1001	-	42,46,46	3.21	12 (28%)	50,67,67	3.07	22 (44%)
13	CYC	Z2	201	-	42,46,46	1.06	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	I6	201	-	42,46,46	3.46	14 (33%)	50,67,67	3.14	24 (48%)
13	CYC	M4	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	L8	1001	-	42,46,46	3.21	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	Q4	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	N2	301	-	42,46,46	1.04	1 (2%)	50,67,67	1.09	3 (6%)
13	CYC	r9	1001	-	42,46,46	3.21	12 (28%)	50,67,67	4.05	24 (48%)
13	CYC	Z1	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	I7	202	-	42,46,46	1.04	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	N6	301	-	42,46,46	1.04	1 (2%)	50,67,67	1.08	4 (8%)
13	CYC	P2	201	-	42,46,46	1.06	1 (2%)	50,67,67	1.06	3 (6%)
13	CYC	P1	202	-	42,46,46	1.01	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	S6	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.10	21 (42%)
13	CYC	ZA	201	-	42,46,46	3.40	15 (35%)	50,67,67	3.14	24 (48%)
13	CYC	H3	1001	-	42,46,46	3.25	14 (33%)	50,67,67	3.09	21 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CYC	Y4	201	-	42,46,46	3.24	15 (35%)	50,67,67	3.10	21 (42%)
13	CYC	U4	1001	-	42,46,46	3.26	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	G9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.33	21 (42%)
13	CYC	H9	1001	-	42,46,46	3.22	13 (30%)	50,67,67	4.05	24 (48%)
13	CYC	T4	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	s8	1001	-	42,46,46	3.46	14 (33%)	50,67,67	2.96	21 (42%)
13	CYC	G1	202	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	P4	202	-	42,46,46	1.00	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	X5	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	U6	201	-	42,46,46	1.05	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	p8	1001	-	42,46,46	3.19	12 (28%)	50,67,67	3.07	22 (44%)
13	CYC	V5	201	-	42,46,46	3.42	14 (33%)	50,67,67	3.13	24 (48%)
13	CYC	I1	202	-	42,46,46	1.01	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	w9	1001	-	42,46,46	3.26	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	N5	301	-	42,46,46	3.44	15 (35%)	50,67,67	3.15	24 (48%)
13	CYC	09	1201	-	42,46,46	3.44	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	X5	201	-	42,46,46	3.43	14 (33%)	50,67,67	3.16	24 (48%)
13	CYC	I9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	U9	1001	-	42,46,46	3.20	12 (28%)	50,67,67	4.04	24 (48%)
13	CYC	Q1	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	E4	202	-	42,46,46	1.05	1 (2%)	50,67,67	1.00	2 (4%)
13	CYC	T2	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	ZA	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	Z4	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	W5	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	D5	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	I6	202	-	42,46,46	1.02	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	V1	202	-	42,46,46	3.26	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	DA	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	T4	202	-	42,46,46	3.27	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	Z1	202	-	42,46,46	3.25	15 (35%)	50,67,67	3.10	21 (42%)
13	CYC	K6	201	-	42,46,46	1.10	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	k9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.33	21 (42%)
13	CYC	S8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	L9	1001	-	42,46,46	3.22	12 (28%)	50,67,67	4.05	24 (48%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CYC	k8	1001	-	42,46,46	3.46	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	p9	1001	-	42,46,46	3.21	12 (28%)	50,67,67	4.05	24 (48%)
13	CYC	Z5	201	-	42,46,46	3.40	15 (35%)	50,67,67	3.14	24 (48%)
13	CYC	K8	1001	-	42,46,46	3.44	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	f8	1001	-	42,46,46	3.45	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	W6	201	-	42,46,46	0.99	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	A5	304	-	42,46,46	3.43	14 (33%)	50,67,67	3.13	24 (48%)
13	CYC	V8	1001	-	42,46,46	3.21	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	C1	302	-	42,46,46	1.09	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	W2	202	-	42,46,46	3.25	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	N6	302	-	42,46,46	3.28	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	W2	203	-	42,46,46	1.09	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	D8	1001	-	42,46,46	3.45	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	A9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	I3	202	-	42,46,46	1.04	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	H6	1001	-	42,46,46	3.24	14 (33%)	50,67,67	3.09	21 (42%)
13	CYC	L7	201	-	42,46,46	3.23	15 (35%)	50,67,67	3.12	20 (40%)
13	CYC	P9	1001	-	42,46,46	3.24	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	P1	201	-	42,46,46	1.06	1 (2%)	50,67,67	1.07	3 (6%)
13	CYC	C4	302	-	42,46,46	1.09	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	H4	1001	-	42,46,46	3.25	14 (33%)	50,67,67	3.10	21 (42%)
13	CYC	C9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.33	21 (42%)
13	CYC	G2	202	3	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	n8	1001	-	42,46,46	3.21	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	G3	201	3	42,46,46	3.26	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	39	1001	-	42,46,46	3.21	12 (28%)	50,67,67	4.06	24 (48%)
13	CYC	H7	1001	-	42,46,46	3.25	14 (33%)	50,67,67	3.09	21 (42%)
13	CYC	O9	1001	-	42,46,46	3.22	12 (28%)	50,67,67	4.05	24 (48%)
13	CYC	X2	201	-	42,46,46	3.44	14 (33%)	50,67,67	3.16	24 (48%)
13	CYC	W6	202	-	42,46,46	3.25	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	O1	1001	-	42,46,46	3.24	14 (33%)	50,67,67	3.11	21 (42%)
13	CYC	P5	202	-	42,46,46	1.00	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	o8	1001	-	42,46,46	3.44	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	N2	302	-	42,46,46	3.27	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	l9	1001	-	42,46,46	3.22	12 (28%)	50,67,67	4.05	24 (48%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CYC	B4	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	K1	201	-	42,46,46	1.05	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	T8	1001	-	42,46,46	3.45	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	F4	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.10	21 (42%)
13	CYC	F1	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.10	20 (40%)
13	CYC	N7	301	-	42,46,46	1.04	1 (2%)	50,67,67	1.08	3 (6%)
13	CYC	I4	202	-	42,46,46	1.00	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	MA	1003	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	I2	201	-	42,46,46	3.47	14 (33%)	50,67,67	3.14	24 (48%)
13	CYC	b8	1001	-	42,46,46	3.45	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	G7	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	I5	201	-	42,46,46	3.43	14 (33%)	50,67,67	3.15	24 (48%)
13	CYC	D9	1001	-	42,46,46	3.20	12 (28%)	50,67,67	4.04	24 (48%)
13	CYC	j8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	G3	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	CA	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
13	CYC	T5	201	-	42,46,46	3.43	14 (33%)	50,67,67	3.15	24 (48%)
13	CYC	F2	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	20 (40%)
13	CYC	GA	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	M6	201	-	42,46,46	1.10	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	R1	1001	3	42,46,46	3.26	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	K7	201	-	42,46,46	1.09	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	L2	201	-	42,46,46	3.24	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	D3	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	K2	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	K9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	T1	202	-	42,46,46	3.27	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	W1	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	Y8	1001	-	42,46,46	3.44	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	GA	1002	-	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	B8	1001	-	42,46,46	3.44	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	J1	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	AA	304	-	42,46,46	3.43	14 (33%)	50,67,67	3.14	24 (48%)
13	CYC	TA	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	K1	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CYC	y9	1001	-	42,46,46	3.24	13 (30%)	50,67,67	3.33	21 (42%)
13	CYC	EA	202	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	m9	201	-	42,46,46	3.21	14 (33%)	50,67,67	2.99	19 (38%)
13	CYC	E9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.33	21 (42%)
13	CYC	U5	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	W2	201	-	42,46,46	0.98	1 (2%)	50,67,67	0.99	2 (4%)
13	CYC	F9	1001	-	42,46,46	3.23	12 (28%)	50,67,67	4.05	24 (48%)
13	CYC	c8	1001	-	42,46,46	3.19	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	X4	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	U2	201	-	42,46,46	1.05	1 (2%)	50,67,67	0.98	2 (4%)
13	CYC	C5	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.95	2 (4%)
13	CYC	LA	201	-	42,46,46	3.23	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	v9	1001	-	42,46,46	3.21	12 (28%)	50,67,67	4.05	24 (48%)
13	CYC	PA	201	-	42,46,46	1.07	1 (2%)	50,67,67	1.07	3 (6%)
13	CYC	29	1001	-	42,46,46	3.21	12 (28%)	50,67,67	4.04	24 (48%)
13	CYC	AA	301	-	42,46,46	3.32	15 (35%)	50,67,67	2.99	22 (44%)
13	CYC	V4	201	-	42,46,46	1.04	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	MA	1002	-	42,46,46	1.03	1 (2%)	50,67,67	1.08	4 (8%)
13	CYC	H8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	C2	201	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	E3	201	-	42,46,46	3.30	15 (35%)	50,67,67	2.97	22 (44%)
13	CYC	C3	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	C1	301	3	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	r8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	09	1202	-	42,46,46	3.12	13 (30%)	50,67,67	3.16	21 (42%)
13	CYC	M1	201	3	42,46,46	1.03	1 (2%)	50,67,67	1.09	5 (10%)
13	CYC	L4	201	-	42,46,46	3.24	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	O6	1001	-	42,46,46	3.23	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	x9	1001	-	42,46,46	3.21	12 (28%)	50,67,67	4.05	24 (48%)
13	CYC	C6	201	-	42,46,46	3.25	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	G4	202	-	42,46,46	3.24	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	Z2	202	-	42,46,46	3.26	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	C8	1001	-	42,46,46	3.20	12 (28%)	50,67,67	3.08	22 (44%)
13	CYC	G4	201	-	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
13	CYC	B9	1001	-	42,46,46	3.21	12 (28%)	50,67,67	4.05	24 (48%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
13	CYC	H1	1001	-	42,46,46	3.24	16 (38%)	50,67,67	3.11	21 (42%)
13	CYC	V6	202	-	42,46,46	3.26	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	09	1203	-	42,46,46	3.21	12 (28%)	50,67,67	4.06	24 (48%)
13	CYC	g9	1001	11	42,46,46	3.22	14 (33%)	50,67,67	2.99	22 (44%)
13	CYC	MA	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	T5	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	u9	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.33	21 (42%)
13	CYC	T6	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	B3	1001	-	42,46,46	3.21	15 (35%)	50,67,67	3.13	20 (40%)
13	CYC	T9	1001	-	42,46,46	3.24	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	K4	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.97	2 (4%)
13	CYC	F3	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.13	21 (42%)
13	CYC	b9	1001	-	42,46,46	3.26	13 (30%)	50,67,67	3.32	21 (42%)
13	CYC	IA	201	-	42,46,46	3.44	14 (33%)	50,67,67	3.15	24 (48%)
13	CYC	19	1201	-	42,46,46	3.44	14 (33%)	50,67,67	2.95	21 (42%)
13	CYC	EA	201	-	42,46,46	1.07	1 (2%)	50,67,67	1.00	2 (4%)
13	CYC	J5	1001	-	42,46,46	3.24	15 (35%)	50,67,67	3.12	21 (42%)
13	CYC	h8	1001	-	42,46,46	3.45	14 (33%)	50,67,67	2.96	21 (42%)
13	CYC	U6	202	-	42,46,46	3.25	15 (35%)	50,67,67	3.10	21 (42%)
13	CYC	19	1203	-	42,46,46	3.21	12 (28%)	50,67,67	4.05	24 (48%)
13	CYC	Y5	201	-	42,46,46	3.24	15 (35%)	50,67,67	3.11	21 (42%)
13	CYC	S1	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.10	21 (42%)
13	CYC	E1	202	-	42,46,46	1.06	1 (2%)	50,67,67	1.00	2 (4%)
13	CYC	Q4	201	-	42,46,46	3.24	15 (35%)	50,67,67	3.12	21 (42%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	X9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	i9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	VA	202	-	-	12/25/74/74	0/4/4/4
13	CYC	Z6	201	-	-	12/25/74/74	0/4/4/4
13	CYC	M5	1001	-	-	10/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	F6	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	P6	201	-	-	8/25/74/74	0/4/4/4
13	CYC	R2	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	q9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	J8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	t8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	V1	201	-	-	12/25/74/74	0/4/4/4
13	CYC	t9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	C4	301	3	-	10/25/74/74	0/4/4/4
13	CYC	I2	202	-	-	12/25/74/74	0/4/4/4
13	CYC	O5	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	X6	202	-	-	12/25/74/74	0/4/4/4
13	CYC	O4	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	L3	201	-	-	10/25/74/74	0/4/4/4
13	CYC	G5	201	-	-	12/25/74/74	0/4/4/4
13	CYC	K3	201	-	-	12/25/74/74	0/4/4/4
13	CYC	Z9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	V6	201	-	-	12/25/74/74	0/4/4/4
13	CYC	VA	201	-	-	9/25/74/74	0/4/4/4
13	CYC	J4	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	K2	202	-	-	12/25/74/74	0/4/4/4
13	CYC	g8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	I3	201	-	-	9/25/74/74	0/4/4/4
13	CYC	RA	201	-	-	12/25/74/74	0/4/4/4
13	CYC	G6	202	3	-	10/25/74/74	0/4/4/4
13	CYC	Y1	201	-	-	10/25/74/74	0/4/4/4
13	CYC	R9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	A3	301	-	-	10/25/74/74	0/4/4/4
13	CYC	Q6	201	-	-	10/25/74/74	0/4/4/4
13	CYC	M8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	D6	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	S5	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	B1	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	Z5	202	-	-	12/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	M2	201	-	-	12/25/74/74	0/4/4/4
13	CYC	N9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	JA	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	SA	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	L1	201	-	-	10/25/74/74	0/4/4/4
13	CYC	V2	202	-	-	10/25/74/74	0/4/4/4
13	CYC	O8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	F7	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	R5	201	-	-	12/25/74/74	0/4/4/4
13	CYC	TA	201	-	-	9/25/74/74	0/4/4/4
13	CYC	E4	201	3	-	8/25/74/74	0/4/4/4
13	CYC	E1	201	3	-	8/25/74/74	0/4/4/4
13	CYC	s9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	KA	201	-	-	12/25/74/74	0/4/4/4
13	CYC	V9	201	-	-	8/25/74/74	0/4/4/4
13	CYC	P5	203	-	-	10/25/74/74	0/4/4/4
13	CYC	B7	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	K3	202	-	-	12/25/74/74	0/4/4/4
13	CYC	l8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	Z4	202	-	-	10/25/74/74	0/4/4/4
13	CYC	WA	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	XA	201	-	-	9/25/74/74	0/4/4/4
13	CYC	N3	301	-	-	10/25/74/74	0/4/4/4
13	CYC	S9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	Z6	202	-	-	10/25/74/74	0/4/4/4
13	CYC	G2	201	-	-	12/25/74/74	0/4/4/4
13	CYC	D1	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	Q2	201	-	-	10/25/74/74	0/4/4/4
13	CYC	E5	201	-	-	12/25/74/74	0/4/4/4
13	CYC	A5	303	-	-	9/25/74/74	0/4/4/4
13	CYC	E6	202	3	-	12/25/74/74	0/4/4/4
13	CYC	J2	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	q8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	E2	202	3	-	12/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	c9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	S4	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	z9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	K5	201	-	-	12/25/74/74	0/4/4/4
13	CYC	f9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	YA	201	-	-	10/25/74/74	0/4/4/4
13	CYC	AA	302	-	-	8/25/74/74	0/4/4/4
13	CYC	A5	301	-	-	8/25/74/74	0/4/4/4
13	CYC	K7	202	-	-	12/25/74/74	0/4/4/4
13	CYC	d9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	M1	202	-	-	12/25/74/74	0/4/4/4
13	CYC	OA	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	X1	202	-	-	12/25/74/74	0/4/4/4
13	CYC	NA	301	-	-	9/25/74/74	0/4/4/4
13	CYC	U2	202	-	-	10/25/74/74	0/4/4/4
13	CYC	J7	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	e9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	F8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	I5	202	-	-	12/25/74/74	0/4/4/4
13	CYC	I1	201	3	-	9/25/74/74	0/4/4/4
13	CYC	PA	202	-	-	12/25/74/74	0/4/4/4
13	CYC	W4	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	j9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	M7	201	-	-	12/25/74/74	0/4/4/4
13	CYC	PA	203	-	-	10/25/74/74	0/4/4/4
13	CYC	Q1	201	-	-	10/25/74/74	0/4/4/4
13	CYC	XA	202	-	-	12/25/74/74	0/4/4/4
13	CYC	o9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	B2	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	L5	201	-	-	10/25/74/74	0/4/4/4
13	CYC	J6	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	B5	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	19	1205	-	-	7/25/74/74	0/4/4/4
13	CYC	I8	1001	-	-	9/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	X8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	AA	303	-	-	9/25/74/74	0/4/4/4
13	CYC	E8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	C6	202	-	-	12/25/74/74	0/4/4/4
13	CYC	19	1202	10	-	8/25/74/74	0/4/4/4
13	CYC	D4	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	M4	201	3	-	10/25/74/74	0/4/4/4
13	CYC	Y6	201	-	-	10/25/74/74	0/4/4/4
13	CYC	B6	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	M5	1003	-	-	12/25/74/74	0/4/4/4
13	CYC	V4	202	-	-	10/25/74/74	0/4/4/4
13	CYC	R4	1001	3	-	10/25/74/74	0/4/4/4
13	CYC	G6	201	-	-	12/25/74/74	0/4/4/4
13	CYC	X6	201	-	-	9/25/74/74	0/4/4/4
13	CYC	E6	201	-	-	8/25/74/74	0/4/4/4
13	CYC	Q9	201	11	-	11/25/74/74	0/4/4/4
13	CYC	I4	201	3	-	9/25/74/74	0/4/4/4
13	CYC	C7	201	-	-	12/25/74/74	0/4/4/4
13	CYC	D7	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	L6	201	-	-	10/25/74/74	0/4/4/4
13	CYC	V2	201	-	-	12/25/74/74	0/4/4/4
13	CYC	Y2	201	-	-	10/25/74/74	0/4/4/4
13	CYC	E7	202	3	-	12/25/74/74	0/4/4/4
13	CYC	S2	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	E7	201	-	-	8/25/74/74	0/4/4/4
13	CYC	P5	201	-	-	8/25/74/74	0/4/4/4
13	CYC	J9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	M3	201	-	-	12/25/74/74	0/4/4/4
13	CYC	T1	201	-	-	12/25/74/74	0/4/4/4
13	CYC	G1	201	-	-	12/25/74/74	0/4/4/4
13	CYC	A7	301	-	-	10/25/74/74	0/4/4/4
13	CYC	E3	202	3	-	12/25/74/74	0/4/4/4
13	CYC	R6	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	X4	201	-	-	9/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	UA	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	V5	202	-	-	12/25/74/74	0/4/4/4
13	CYC	W8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	J3	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	G7	201	3	-	10/25/74/74	0/4/4/4
13	CYC	C2	202	-	-	12/25/74/74	0/4/4/4
13	CYC	d8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	P4	201	-	-	8/25/74/74	0/4/4/4
13	CYC	A8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	O2	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	R8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	Z8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	M5	1002	-	-	10/25/74/74	0/4/4/4
13	CYC	E2	201	-	-	8/25/74/74	0/4/4/4
13	CYC	K4	202	-	-	12/25/74/74	0/4/4/4
13	CYC	I7	201	-	-	9/25/74/74	0/4/4/4
13	CYC	P8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	19	1204	-	-	7/25/74/74	0/4/4/4
13	CYC	E5	202	-	-	10/25/74/74	0/4/4/4
13	CYC	H2	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	X1	201	-	-	9/25/74/74	0/4/4/4
13	CYC	A5	302	-	-	8/25/74/74	0/4/4/4
13	CYC	IA	202	-	-	12/25/74/74	0/4/4/4
13	CYC	D2	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	e8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	U1	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	K6	202	-	-	12/25/74/74	0/4/4/4
13	CYC	Q8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	Z2	201	-	-	12/25/74/74	0/4/4/4
13	CYC	I6	201	-	-	9/25/74/74	0/4/4/4
13	CYC	M4	202	-	-	12/25/74/74	0/4/4/4
13	CYC	L8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	Q4	202	-	-	12/25/74/74	0/4/4/4
13	CYC	N2	301	-	-	10/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	r9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	Z1	201	-	-	12/25/74/74	0/4/4/4
13	CYC	I7	202	-	-	12/25/74/74	0/4/4/4
13	CYC	N6	301	-	-	10/25/74/74	0/4/4/4
13	CYC	P2	201	-	-	8/25/74/74	0/4/4/4
13	CYC	P1	202	-	-	12/25/74/74	0/4/4/4
13	CYC	S6	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	ZA	201	-	-	9/25/74/74	0/4/4/4
13	CYC	H3	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	Y4	201	-	-	10/25/74/74	0/4/4/4
13	CYC	U4	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	G9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	H9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	T4	201	-	-	12/25/74/74	0/4/4/4
13	CYC	s8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	G1	202	-	-	10/25/74/74	0/4/4/4
13	CYC	P4	202	-	-	12/25/74/74	0/4/4/4
13	CYC	X5	202	-	-	12/25/74/74	0/4/4/4
13	CYC	U6	201	-	-	12/25/74/74	0/4/4/4
13	CYC	p8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	V5	201	-	-	9/25/74/74	0/4/4/4
13	CYC	I1	202	-	-	12/25/74/74	0/4/4/4
13	CYC	w9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	N5	301	-	-	9/25/74/74	0/4/4/4
13	CYC	09	1201	-	-	9/25/74/74	0/4/4/4
13	CYC	X5	201	-	-	9/25/74/74	0/4/4/4
13	CYC	I9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	U9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	Q1	202	-	-	12/25/74/74	0/4/4/4
13	CYC	E4	202	-	-	12/25/74/74	0/4/4/4
13	CYC	T2	201	-	-	12/25/74/74	0/4/4/4
13	CYC	ZA	202	-	-	12/25/74/74	0/4/4/4
13	CYC	Z4	201	-	-	12/25/74/74	0/4/4/4
13	CYC	W5	1001	-	-	10/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	D5	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	I6	202	-	-	12/25/74/74	0/4/4/4
13	CYC	V1	202	-	-	10/25/74/74	0/4/4/4
13	CYC	DA	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	T4	202	-	-	10/25/74/74	0/4/4/4
13	CYC	Z1	202	-	-	10/25/74/74	0/4/4/4
13	CYC	K6	201	-	-	12/25/74/74	0/4/4/4
13	CYC	k9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	S8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	L9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	k8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	p9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	Z5	201	-	-	9/25/74/74	0/4/4/4
13	CYC	K8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	f8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	W6	201	-	-	12/25/74/74	0/4/4/4
13	CYC	A5	304	-	-	9/25/74/74	0/4/4/4
13	CYC	V8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	C1	302	-	-	12/25/74/74	0/4/4/4
13	CYC	W2	202	-	-	10/25/74/74	0/4/4/4
13	CYC	N6	302	-	-	10/25/74/74	0/4/4/4
13	CYC	W2	203	-	-	12/25/74/74	0/4/4/4
13	CYC	D8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	A9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	I3	202	-	-	12/25/74/74	0/4/4/4
13	CYC	H6	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	L7	201	-	-	10/25/74/74	0/4/4/4
13	CYC	P9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	P1	201	-	-	8/25/74/74	0/4/4/4
13	CYC	C4	302	-	-	12/25/74/74	0/4/4/4
13	CYC	H4	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	C9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	G2	202	3	-	10/25/74/74	0/4/4/4
13	CYC	n8	1001	-	-	9/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	G3	201	3	-	10/25/74/74	0/4/4/4
13	CYC	39	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	H7	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	O9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	X2	201	-	-	9/25/74/74	0/4/4/4
13	CYC	W6	202	-	-	10/25/74/74	0/4/4/4
13	CYC	O1	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	P5	202	-	-	12/25/74/74	0/4/4/4
13	CYC	o8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	N2	302	-	-	10/25/74/74	0/4/4/4
13	CYC	l9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	B4	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	K1	201	-	-	12/25/74/74	0/4/4/4
13	CYC	T8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	F4	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	F1	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	N7	301	-	-	10/25/74/74	0/4/4/4
13	CYC	I4	202	-	-	12/25/74/74	0/4/4/4
13	CYC	MA	1003	-	-	12/25/74/74	0/4/4/4
13	CYC	I2	201	-	-	9/25/74/74	0/4/4/4
13	CYC	b8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	G7	202	-	-	12/25/74/74	0/4/4/4
13	CYC	I5	201	-	-	9/25/74/74	0/4/4/4
13	CYC	D9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	j8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	G3	202	-	-	12/25/74/74	0/4/4/4
13	CYC	CA	201	-	-	12/25/74/74	0/4/4/4
13	CYC	T5	201	-	-	9/25/74/74	0/4/4/4
13	CYC	F2	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	GA	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	M6	201	-	-	12/25/74/74	0/4/4/4
13	CYC	R1	1001	3	-	10/25/74/74	0/4/4/4
13	CYC	K7	201	-	-	12/25/74/74	0/4/4/4
13	CYC	L2	201	-	-	10/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	D3	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	K2	201	-	-	12/25/74/74	0/4/4/4
13	CYC	K9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	T1	202	-	-	10/25/74/74	0/4/4/4
13	CYC	W1	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	Y8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	GA	1002	-	-	12/25/74/74	0/4/4/4
13	CYC	B8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	J1	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	AA	304	-	-	9/25/74/74	0/4/4/4
13	CYC	TA	202	-	-	12/25/74/74	0/4/4/4
13	CYC	K1	202	-	-	12/25/74/74	0/4/4/4
13	CYC	y9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	EA	202	-	-	10/25/74/74	0/4/4/4
13	CYC	m9	201	-	-	8/25/74/74	0/4/4/4
13	CYC	E9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	U5	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	W2	201	-	-	12/25/74/74	0/4/4/4
13	CYC	F9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	c8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	X4	202	-	-	12/25/74/74	0/4/4/4
13	CYC	U2	201	-	-	12/25/74/74	0/4/4/4
13	CYC	C5	201	-	-	12/25/74/74	0/4/4/4
13	CYC	LA	201	-	-	10/25/74/74	0/4/4/4
13	CYC	v9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	PA	201	-	-	8/25/74/74	0/4/4/4
13	CYC	29	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	AA	301	-	-	8/25/74/74	0/4/4/4
13	CYC	V4	201	-	-	12/25/74/74	0/4/4/4
13	CYC	MA	1002	-	-	10/25/74/74	0/4/4/4
13	CYC	H8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	C2	201	-	-	10/25/74/74	0/4/4/4
13	CYC	E3	201	-	-	8/25/74/74	0/4/4/4
13	CYC	C3	201	-	-	12/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	C1	301	3	-	10/25/74/74	0/4/4/4
13	CYC	r8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	09	1202	-	-	6/25/74/74	0/4/4/4
13	CYC	M1	201	3	-	10/25/74/74	0/4/4/4
13	CYC	L4	201	-	-	10/25/74/74	0/4/4/4
13	CYC	O6	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	x9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	C6	201	-	-	10/25/74/74	0/4/4/4
13	CYC	G4	202	-	-	10/25/74/74	0/4/4/4
13	CYC	Z2	202	-	-	10/25/74/74	0/4/4/4
13	CYC	C8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	G4	201	-	-	12/25/74/74	0/4/4/4
13	CYC	B9	1001	-	-	7/25/74/74	0/4/4/4
13	CYC	H1	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	V6	202	-	-	10/25/74/74	0/4/4/4
13	CYC	09	1203	-	-	7/25/74/74	0/4/4/4
13	CYC	g9	1001	11	-	9/25/74/74	0/4/4/4
13	CYC	MA	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	T5	202	-	-	12/25/74/74	0/4/4/4
13	CYC	u9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	T6	201	-	-	12/25/74/74	0/4/4/4
13	CYC	B3	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	T9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	K4	201	-	-	12/25/74/74	0/4/4/4
13	CYC	F3	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	b9	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	IA	201	-	-	9/25/74/74	0/4/4/4
13	CYC	19	1201	-	-	9/25/74/74	0/4/4/4
13	CYC	EA	201	-	-	12/25/74/74	0/4/4/4
13	CYC	J5	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	h8	1001	-	-	9/25/74/74	0/4/4/4
13	CYC	U6	202	-	-	10/25/74/74	0/4/4/4
13	CYC	19	1203	-	-	7/25/74/74	0/4/4/4
13	CYC	Y5	201	-	-	10/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CYC	S1	1001	-	-	10/25/74/74	0/4/4/4
13	CYC	E1	202	-	-	12/25/74/74	0/4/4/4
13	CYC	Q4	201	-	-	10/25/74/74	0/4/4/4

All (3522) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	k8	1001	CYC	CHA-C1A	17.08	1.49	1.35
13	s8	1001	CYC	CHA-C1A	17.06	1.49	1.35
13	I8	1001	CYC	CHA-C1A	17.05	1.49	1.35
13	T8	1001	CYC	CHA-C1A	17.05	1.49	1.35
13	f8	1001	CYC	CHA-C1A	17.05	1.49	1.35
13	d8	1001	CYC	CHA-C1A	17.04	1.49	1.35
13	F8	1001	CYC	CHA-C1A	17.04	1.49	1.35
13	b8	1001	CYC	CHA-C1A	17.03	1.49	1.35
13	q8	1001	CYC	CHA-C1A	17.02	1.49	1.35
13	W8	1001	CYC	CHA-C1A	17.01	1.49	1.35
13	M8	1001	CYC	CHA-C1A	17.00	1.49	1.35
13	D8	1001	CYC	CHA-C1A	16.99	1.49	1.35
13	h8	1001	CYC	CHA-C1A	16.99	1.49	1.35
13	09	1201	CYC	CHA-C1A	16.98	1.49	1.35
13	B8	1001	CYC	CHA-C1A	16.98	1.49	1.35
13	R8	1001	CYC	CHA-C1A	16.98	1.49	1.35
13	o8	1001	CYC	CHA-C1A	16.97	1.49	1.35
13	19	1201	CYC	CHA-C1A	16.97	1.49	1.35
13	Y8	1001	CYC	CHA-C1A	16.96	1.49	1.35
13	K8	1001	CYC	CHA-C1A	16.96	1.49	1.35
13	P8	1001	CYC	CHA-C1A	16.94	1.49	1.35
13	N6	302	CYC	CHA-C1A	16.53	1.48	1.35
13	I3	201	CYC	CHA-C1A	16.53	1.48	1.35
13	G9	1001	CYC	CHA-C1A	16.52	1.48	1.35
13	b9	1001	CYC	CHA-C1A	16.52	1.48	1.35
13	I7	201	CYC	CHA-C1A	16.52	1.48	1.35
13	C9	1001	CYC	CHA-C1A	16.52	1.48	1.35
13	u9	1001	CYC	CHA-C1A	16.52	1.48	1.35
13	I2	201	CYC	CHA-C1A	16.50	1.48	1.35
13	w9	1001	CYC	CHA-C1A	16.50	1.48	1.35
13	A9	1001	CYC	CHA-C1A	16.49	1.48	1.35
13	I9	1001	CYC	CHA-C1A	16.48	1.48	1.35
13	K9	1001	CYC	CHA-C1A	16.48	1.48	1.35
13	f9	1001	CYC	CHA-C1A	16.47	1.48	1.35
13	o9	1001	CYC	CHA-C1A	16.46	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	I6	201	CYC	CHA-C1A	16.46	1.48	1.35
13	E9	1001	CYC	CHA-C1A	16.46	1.48	1.35
13	k9	1001	CYC	CHA-C1A	16.46	1.48	1.35
13	Z9	1001	CYC	CHA-C1A	16.44	1.48	1.35
13	T4	202	CYC	CHA-C1A	16.44	1.48	1.35
13	N9	1001	CYC	CHA-C1A	16.44	1.48	1.35
13	s9	1001	CYC	CHA-C1A	16.44	1.48	1.35
13	U2	202	CYC	CHA-C1A	16.44	1.48	1.35
13	q9	1001	CYC	CHA-C1A	16.44	1.48	1.35
13	T1	202	CYC	CHA-C1A	16.43	1.48	1.35
13	d9	1001	CYC	CHA-C1A	16.43	1.48	1.35
13	P9	1001	CYC	CHA-C1A	16.43	1.48	1.35
13	R9	1001	CYC	CHA-C1A	16.42	1.48	1.35
13	N2	302	CYC	CHA-C1A	16.41	1.48	1.35
13	I4	201	CYC	CHA-C1A	16.41	1.48	1.35
13	y9	1001	CYC	CHA-C1A	16.41	1.48	1.35
13	V1	202	CYC	CHA-C1A	16.40	1.48	1.35
13	T9	1001	CYC	CHA-C1A	16.39	1.48	1.35
13	X9	1001	CYC	CHA-C1A	16.39	1.48	1.35
13	I1	201	CYC	CHA-C1A	16.38	1.48	1.35
13	U4	1001	CYC	CHA-C1A	16.38	1.48	1.35
13	R2	1001	CYC	CHA-C1A	16.37	1.48	1.35
13	V6	202	CYC	CHA-C1A	16.37	1.48	1.35
13	UA	1001	CYC	CHA-C1A	16.37	1.48	1.35
13	V4	202	CYC	CHA-C1A	16.36	1.48	1.35
13	G6	202	CYC	CHA-C1A	16.35	1.48	1.35
13	Z2	202	CYC	CHA-C1A	16.35	1.48	1.35
13	U6	202	CYC	CHA-C1A	16.35	1.48	1.35
13	Q6	201	CYC	CHA-C1A	16.34	1.48	1.35
13	H7	1001	CYC	CHA-C1A	16.34	1.48	1.35
13	i9	1001	CYC	CHA-C1A	16.34	1.48	1.35
13	R1	1001	CYC	CHA-C1A	16.33	1.48	1.35
13	Z6	202	CYC	CHA-C1A	16.33	1.48	1.35
13	U1	1001	CYC	CHA-C1A	16.33	1.48	1.35
13	H3	1001	CYC	CHA-C1A	16.33	1.48	1.35
13	O5	1001	CYC	CHA-C1A	16.32	1.48	1.35
13	MA	1001	CYC	CHA-C1A	16.32	1.48	1.35
13	PA	203	CYC	CHA-C1A	16.32	1.48	1.35
13	E5	202	CYC	CHA-C1A	16.31	1.48	1.35
13	F6	1001	CYC	CHA-C1A	16.31	1.48	1.35
13	Q2	201	CYC	CHA-C1A	16.30	1.48	1.35
13	H2	1001	CYC	CHA-C1A	16.30	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	U5	1001	CYC	CHA-C1A	16.30	1.48	1.35
13	S1	1001	CYC	CHA-C1A	16.30	1.48	1.35
13	P5	203	CYC	CHA-C1A	16.30	1.48	1.35
13	S4	1001	CYC	CHA-C1A	16.30	1.48	1.35
13	S5	1001	CYC	CHA-C1A	16.30	1.48	1.35
13	H6	1001	CYC	CHA-C1A	16.29	1.48	1.35
13	OA	1001	CYC	CHA-C1A	16.29	1.48	1.35
13	G3	201	CYC	CHA-C1A	16.29	1.48	1.35
13	R4	1001	CYC	CHA-C1A	16.28	1.48	1.35
13	R6	1001	CYC	CHA-C1A	16.28	1.48	1.35
13	H4	1001	CYC	CHA-C1A	16.28	1.48	1.35
13	G1	202	CYC	CHA-C1A	16.28	1.48	1.35
13	G7	201	CYC	CHA-C1A	16.28	1.48	1.35
13	Z4	202	CYC	CHA-C1A	16.28	1.48	1.35
13	C6	201	CYC	CHA-C1A	16.28	1.48	1.35
13	V2	202	CYC	CHA-C1A	16.27	1.48	1.35
13	W2	202	CYC	CHA-C1A	16.27	1.48	1.35
13	C4	301	CYC	CHA-C1A	16.27	1.48	1.35
13	IA	201	CYC	CHA-C1A	16.27	1.48	1.35
13	YA	201	CYC	CHA-C1A	16.27	1.48	1.35
13	M5	1001	CYC	CHA-C1A	16.27	1.48	1.35
13	C1	301	CYC	CHA-C1A	16.27	1.48	1.35
13	Z1	202	CYC	CHA-C1A	16.27	1.48	1.35
13	EA	202	CYC	CHA-C1A	16.27	1.48	1.35
13	W1	1001	CYC	CHA-C1A	16.26	1.48	1.35
13	GA	1001	CYC	CHA-C1A	16.26	1.48	1.35
13	W4	1001	CYC	CHA-C1A	16.26	1.48	1.35
13	WA	1001	CYC	CHA-C1A	16.26	1.48	1.35
13	J5	1001	CYC	CHA-C1A	16.26	1.48	1.35
13	Q4	201	CYC	CHA-C1A	16.25	1.48	1.35
13	W5	1001	CYC	CHA-C1A	16.24	1.48	1.35
13	J1	1001	CYC	CHA-C1A	16.24	1.48	1.35
13	L5	201	CYC	CHA-C1A	16.24	1.48	1.35
13	SA	1001	CYC	CHA-C1A	16.24	1.48	1.35
13	W6	202	CYC	CHA-C1A	16.24	1.48	1.35
13	C2	201	CYC	CHA-C1A	16.23	1.48	1.35
13	Y5	201	CYC	CHA-C1A	16.23	1.48	1.35
13	G2	202	CYC	CHA-C1A	16.23	1.48	1.35
13	L2	201	CYC	CHA-C1A	16.23	1.48	1.35
13	H1	1001	CYC	CHA-C1A	16.22	1.48	1.35
13	J4	1001	CYC	CHA-C1A	16.22	1.48	1.35
13	F2	1001	CYC	CHA-C1A	16.22	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	G4	202	CYC	CHA-C1A	16.22	1.48	1.35
13	F7	1001	CYC	CHA-C1A	16.22	1.48	1.35
13	Q1	201	CYC	CHA-C1A	16.21	1.48	1.35
13	B5	1001	CYC	CHA-C1A	16.21	1.48	1.35
13	J2	1001	CYC	CHA-C1A	16.21	1.48	1.35
13	D5	1001	CYC	CHA-C1A	16.21	1.48	1.35
13	I5	201	CYC	CHA-C1A	16.21	1.48	1.35
13	X1	201	CYC	CHA-C1A	16.20	1.48	1.35
13	N5	301	CYC	CHA-C1A	16.20	1.48	1.35
13	Y2	201	CYC	CHA-C1A	16.20	1.48	1.35
13	O1	1001	CYC	CHA-C1A	16.20	1.48	1.35
13	S6	1001	CYC	CHA-C1A	16.20	1.48	1.35
13	F4	1001	CYC	CHA-C1A	16.19	1.48	1.35
13	F3	1001	CYC	CHA-C1A	16.19	1.48	1.35
13	X2	201	CYC	CHA-C1A	16.19	1.48	1.35
13	J3	1001	CYC	CHA-C1A	16.19	1.48	1.35
13	Y4	201	CYC	CHA-C1A	16.19	1.48	1.35
13	S2	1001	CYC	CHA-C1A	16.18	1.48	1.35
13	L4	201	CYC	CHA-C1A	16.18	1.48	1.35
13	B4	1001	CYC	CHA-C1A	16.17	1.48	1.35
13	J6	1001	CYC	CHA-C1A	16.17	1.48	1.35
13	LA	201	CYC	CHA-C1A	16.16	1.48	1.35
13	T5	201	CYC	CHA-C1A	16.16	1.48	1.35
13	D7	1001	CYC	CHA-C1A	16.16	1.48	1.35
13	Y6	201	CYC	CHA-C1A	16.15	1.48	1.35
13	L1	201	CYC	CHA-C1A	16.14	1.48	1.35
13	X6	201	CYC	CHA-C1A	16.14	1.48	1.35
13	O4	1001	CYC	CHA-C1A	16.14	1.48	1.35
13	NA	301	CYC	CHA-C1A	16.14	1.48	1.35
13	JA	1001	CYC	CHA-C1A	16.14	1.48	1.35
13	A7	301	CYC	CHA-C1A	16.13	1.48	1.35
13	D3	1001	CYC	CHA-C1A	16.13	1.48	1.35
13	VA	201	CYC	CHA-C1A	16.13	1.48	1.35
13	F1	1001	CYC	CHA-C1A	16.13	1.48	1.35
13	TA	201	CYC	CHA-C1A	16.13	1.48	1.35
13	O2	1001	CYC	CHA-C1A	16.13	1.48	1.35
13	B1	1001	CYC	CHA-C1A	16.12	1.48	1.35
13	AA	302	CYC	CHA-C1A	16.12	1.48	1.35
13	D6	1001	CYC	CHA-C1A	16.12	1.48	1.35
13	D2	1001	CYC	CHA-C1A	16.11	1.48	1.35
13	J7	1001	CYC	CHA-C1A	16.11	1.48	1.35
13	Y1	201	CYC	CHA-C1A	16.11	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	X4	201	CYC	CHA-C1A	16.11	1.48	1.35
13	O6	1001	CYC	CHA-C1A	16.11	1.48	1.35
13	L6	201	CYC	CHA-C1A	16.11	1.48	1.35
13	X8	1001	CYC	CHA-C1A	16.11	1.48	1.35
13	DA	1001	CYC	CHA-C1A	16.11	1.48	1.35
13	X5	201	CYC	CHA-C1A	16.10	1.48	1.35
13	n8	1001	CYC	CHA-C1A	16.08	1.48	1.35
13	V8	1001	CYC	CHA-C1A	16.07	1.48	1.35
13	Q8	1001	CYC	CHA-C1A	16.07	1.48	1.35
13	D4	1001	CYC	CHA-C1A	16.07	1.48	1.35
13	L7	201	CYC	CHA-C1A	16.07	1.48	1.35
13	A3	301	CYC	CHA-C1A	16.06	1.48	1.35
13	D1	1001	CYC	CHA-C1A	16.05	1.48	1.35
13	V5	201	CYC	CHA-C1A	16.05	1.48	1.35
13	l9	1001	CYC	CHA-C1A	16.04	1.48	1.35
13	L8	1001	CYC	CHA-C1A	16.04	1.48	1.35
13	A5	302	CYC	CHA-C1A	16.04	1.48	1.35
13	AA	304	CYC	CHA-C1A	16.04	1.48	1.35
13	A5	304	CYC	CHA-C1A	16.03	1.48	1.35
13	e8	1001	CYC	CHA-C1A	16.03	1.48	1.35
13	c9	1001	CYC	CHA-C1A	16.02	1.48	1.35
13	L3	201	CYC	CHA-C1A	16.02	1.48	1.35
13	F9	1001	CYC	CHA-C1A	16.02	1.48	1.35
13	r8	1001	CYC	CHA-C1A	16.02	1.48	1.35
13	t8	1001	CYC	CHA-C1A	16.01	1.48	1.35
13	C8	1001	CYC	CHA-C1A	16.01	1.48	1.35
13	H8	1001	CYC	CHA-C1A	16.00	1.48	1.35
13	E4	201	CYC	CHA-C1A	16.00	1.48	1.35
13	XA	201	CYC	CHA-C1A	15.99	1.48	1.35
13	E8	1001	CYC	CHA-C1A	15.99	1.48	1.35
13	g8	1001	CYC	CHA-C1A	15.99	1.48	1.35
13	l8	1001	CYC	CHA-C1A	15.99	1.48	1.35
13	O8	1001	CYC	CHA-C1A	15.98	1.48	1.35
13	O9	1001	CYC	CHA-C1A	15.98	1.48	1.35
13	E1	201	CYC	CHA-C1A	15.98	1.48	1.35
13	B6	1001	CYC	CHA-C1A	15.98	1.48	1.35
13	B7	1001	CYC	CHA-C1A	15.97	1.48	1.35
13	H9	1001	CYC	CHA-C1A	15.97	1.48	1.35
13	S8	1001	CYC	CHA-C1A	15.97	1.48	1.35
13	Z8	1001	CYC	CHA-C1A	15.97	1.48	1.35
13	A8	1001	CYC	CHA-C1A	15.96	1.48	1.35
13	S9	1001	CYC	CHA-C1A	15.96	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	z9	1001	CYC	CHA-C1A	15.96	1.48	1.35
13	J8	1001	CYC	CHA-C1A	15.96	1.48	1.35
13	B2	1001	CYC	CHA-C1A	15.96	1.48	1.35
13	L9	1001	CYC	CHA-C1A	15.95	1.48	1.35
13	c8	1001	CYC	CHA-C1A	15.95	1.48	1.35
13	j8	1001	CYC	CHA-C1A	15.95	1.48	1.35
13	B9	1001	CYC	CHA-C1A	15.94	1.48	1.35
13	AA	301	CYC	CHA-C1A	15.94	1.48	1.35
13	p9	1001	CYC	CHA-C1A	15.94	1.48	1.35
13	x9	1001	CYC	CHA-C1A	15.94	1.48	1.35
13	19	1204	CYC	CHA-C1A	15.93	1.48	1.35
13	p8	1001	CYC	CHA-C1A	15.93	1.48	1.35
13	v9	1001	CYC	CHA-C1A	15.93	1.48	1.35
13	19	1205	CYC	CHA-C1A	15.93	1.48	1.35
13	r9	1001	CYC	CHA-C1A	15.92	1.48	1.35
13	A5	301	CYC	CHA-C1A	15.92	1.48	1.35
13	39	1001	CYC	CHA-C1A	15.92	1.48	1.35
13	A5	303	CYC	CHA-C1A	15.92	1.48	1.35
13	B3	1001	CYC	CHA-C1A	15.91	1.48	1.35
13	AA	303	CYC	CHA-C1A	15.91	1.48	1.35
13	29	1001	CYC	CHA-C1A	15.91	1.48	1.35
13	E7	201	CYC	CHA-C1A	15.90	1.48	1.35
13	09	1203	CYC	CHA-C1A	15.90	1.48	1.35
13	E2	201	CYC	CHA-C1A	15.89	1.48	1.35
13	J9	1001	CYC	CHA-C1A	15.89	1.48	1.35
13	U9	1001	CYC	CHA-C1A	15.89	1.48	1.35
13	Z5	201	CYC	CHA-C1A	15.88	1.48	1.35
13	ZA	201	CYC	CHA-C1A	15.88	1.48	1.35
13	E6	201	CYC	CHA-C1A	15.88	1.48	1.35
13	19	1203	CYC	CHA-C1A	15.88	1.48	1.35
13	t9	1001	CYC	CHA-C1A	15.88	1.48	1.35
13	m9	201	CYC	CHA-C1A	15.87	1.48	1.35
13	e9	1001	CYC	CHA-C1A	15.86	1.48	1.35
13	D9	1001	CYC	CHA-C1A	15.85	1.48	1.35
13	E3	201	CYC	CHA-C1A	15.85	1.48	1.35
13	V9	201	CYC	CHA-C1A	15.85	1.48	1.35
13	j9	1001	CYC	CHA-C1A	15.83	1.48	1.35
13	19	1202	CYC	CHA-C1A	15.83	1.48	1.35
13	Q9	201	CYC	CHA-C1A	15.67	1.48	1.35
13	g9	1001	CYC	CHA-C1A	15.64	1.48	1.35
13	09	1202	CYC	CHA-C1A	15.19	1.47	1.35
13	X5	201	CYC	C2A-C3A	5.97	1.49	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	X1	201	CYC	C2A-C3A	5.96	1.49	1.36
13	X2	201	CYC	C2A-C3A	5.96	1.49	1.36
13	X4	201	CYC	C2A-C3A	5.95	1.49	1.36
13	T5	201	CYC	C2A-C3A	5.94	1.49	1.36
13	NA	301	CYC	C2A-C3A	5.94	1.49	1.36
13	XA	201	CYC	C2A-C3A	5.93	1.49	1.36
13	X6	201	CYC	C2A-C3A	5.93	1.49	1.36
13	N5	301	CYC	C2A-C3A	5.92	1.49	1.36
13	TA	201	CYC	C2A-C3A	5.91	1.49	1.36
13	A5	304	CYC	C2A-C3A	5.89	1.49	1.36
13	AA	304	CYC	C2A-C3A	5.89	1.49	1.36
13	I1	201	CYC	C2A-C3A	5.85	1.49	1.36
13	I4	201	CYC	C2A-C3A	5.83	1.49	1.36
13	I3	201	CYC	C2A-C3A	5.82	1.49	1.36
13	I7	201	CYC	C2A-C3A	5.81	1.49	1.36
13	I2	201	CYC	C2A-C3A	5.81	1.49	1.36
13	ZA	201	CYC	C2A-C3A	5.81	1.49	1.36
13	V5	201	CYC	C2A-C3A	5.80	1.49	1.36
13	VA	201	CYC	C2A-C3A	5.80	1.49	1.36
13	A5	303	CYC	C2A-C3A	5.79	1.49	1.36
13	IA	201	CYC	C2A-C3A	5.79	1.49	1.36
13	Z5	201	CYC	C2A-C3A	5.78	1.49	1.36
13	AA	303	CYC	C2A-C3A	5.77	1.49	1.36
13	I5	201	CYC	C2A-C3A	5.76	1.49	1.36
13	I6	201	CYC	C2A-C3A	5.74	1.48	1.36
13	AA	303	CYC	C3B-C2B	5.60	1.48	1.36
13	A5	303	CYC	C3B-C2B	5.59	1.48	1.36
13	NA	301	CYC	C3B-C2B	5.58	1.48	1.36
13	N5	301	CYC	C3B-C2B	5.56	1.48	1.36
13	19	1202	CYC	C2A-C3A	5.55	1.48	1.36
13	c8	1001	CYC	C3B-C2B	5.55	1.48	1.36
13	j8	1001	CYC	C3B-C2B	5.54	1.48	1.36
13	A5	304	CYC	C3B-C2B	5.54	1.48	1.36
13	S8	1001	CYC	C3B-C2B	5.53	1.48	1.36
13	E8	1001	CYC	C3B-C2B	5.53	1.48	1.36
13	ZA	201	CYC	C3B-C2B	5.53	1.48	1.36
13	X8	1001	CYC	C3B-C2B	5.53	1.48	1.36
13	C8	1001	CYC	C3B-C2B	5.52	1.48	1.36
13	t8	1001	CYC	C3B-C2B	5.52	1.48	1.36
13	AA	304	CYC	C3B-C2B	5.52	1.48	1.36
13	V8	1001	CYC	C3B-C2B	5.51	1.48	1.36
13	e8	1001	CYC	C3B-C2B	5.51	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	n8	1001	CYC	C3B-C2B	5.51	1.48	1.36
13	Q8	1001	CYC	C3B-C2B	5.51	1.48	1.36
13	H8	1001	CYC	C3B-C2B	5.51	1.48	1.36
13	L8	1001	CYC	C3B-C2B	5.51	1.48	1.36
13	X5	201	CYC	C3B-C2B	5.51	1.48	1.36
13	J8	1001	CYC	C3B-C2B	5.51	1.48	1.36
13	O8	1001	CYC	C3B-C2B	5.51	1.48	1.36
13	l8	1001	CYC	C3B-C2B	5.50	1.48	1.36
13	Z8	1001	CYC	C3B-C2B	5.50	1.48	1.36
13	g8	1001	CYC	C3B-C2B	5.50	1.48	1.36
13	Z5	201	CYC	C3B-C2B	5.50	1.48	1.36
13	T5	201	CYC	C3B-C2B	5.49	1.48	1.36
13	I5	201	CYC	C3B-C2B	5.49	1.48	1.36
13	XA	201	CYC	C3B-C2B	5.49	1.48	1.36
13	A8	1001	CYC	C3B-C2B	5.49	1.48	1.36
13	p8	1001	CYC	C3B-C2B	5.48	1.48	1.36
13	r8	1001	CYC	C3B-C2B	5.48	1.48	1.36
13	X2	201	CYC	C3B-C2B	5.48	1.48	1.36
13	TA	201	CYC	C3B-C2B	5.47	1.48	1.36
13	X1	201	CYC	C3B-C2B	5.47	1.48	1.36
13	I1	201	CYC	C3B-C2B	5.47	1.48	1.36
13	I6	201	CYC	C3B-C2B	5.47	1.48	1.36
13	IA	201	CYC	C3B-C2B	5.47	1.48	1.36
13	X4	201	CYC	C3B-C2B	5.46	1.48	1.36
13	I4	201	CYC	C3B-C2B	5.46	1.48	1.36
13	F3	1001	CYC	C3B-C2B	5.45	1.48	1.36
13	Q6	201	CYC	C3B-C2B	5.45	1.48	1.36
13	F7	1001	CYC	C3B-C2B	5.45	1.48	1.36
13	X6	201	CYC	C3B-C2B	5.44	1.48	1.36
13	D2	1001	CYC	C3B-C2B	5.44	1.48	1.36
13	F6	1001	CYC	C3B-C2B	5.44	1.48	1.36
13	V5	201	CYC	C3B-C2B	5.43	1.48	1.36
13	L6	201	CYC	C3B-C2B	5.43	1.48	1.36
13	L3	201	CYC	C3B-C2B	5.43	1.48	1.36
13	D6	1001	CYC	C3B-C2B	5.43	1.48	1.36
13	L7	201	CYC	C3B-C2B	5.42	1.48	1.36
13	F2	1001	CYC	C3B-C2B	5.42	1.48	1.36
13	I2	201	CYC	C3B-C2B	5.41	1.48	1.36
13	B3	1001	CYC	C3B-C2B	5.41	1.48	1.36
13	VA	201	CYC	C3B-C2B	5.41	1.48	1.36
13	L2	201	CYC	C3B-C2B	5.41	1.48	1.36
13	F1	1001	CYC	C3B-C2B	5.40	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	L1	201	CYC	C3B-C2B	5.40	1.48	1.36
13	Q9	201	CYC	C3B-C2B	5.40	1.48	1.36
13	G2	202	CYC	C3B-C2B	5.40	1.48	1.36
13	Y2	201	CYC	C3B-C2B	5.39	1.48	1.36
13	B7	1001	CYC	C3B-C2B	5.39	1.48	1.36
13	L4	201	CYC	C3B-C2B	5.39	1.48	1.36
13	F4	1001	CYC	C3B-C2B	5.39	1.48	1.36
13	R1	1001	CYC	C3B-C2B	5.39	1.48	1.36
13	B6	1001	CYC	C3B-C2B	5.39	1.48	1.36
13	A3	301	CYC	C3B-C2B	5.38	1.48	1.36
13	U5	1001	CYC	C3B-C2B	5.38	1.48	1.36
13	D4	1001	CYC	C3B-C2B	5.38	1.48	1.36
13	N2	302	CYC	C3B-C2B	5.38	1.48	1.36
13	R4	1001	CYC	C3B-C2B	5.38	1.48	1.36
13	B4	1001	CYC	C3B-C2B	5.37	1.48	1.36
13	I7	201	CYC	C3B-C2B	5.37	1.48	1.36
13	Q2	201	CYC	C3B-C2B	5.37	1.48	1.36
13	g9	1001	CYC	C3B-C2B	5.37	1.48	1.36
13	Q4	201	CYC	C3B-C2B	5.37	1.48	1.36
13	D1	1001	CYC	C3B-C2B	5.36	1.48	1.36
13	O4	1001	CYC	C3B-C2B	5.36	1.48	1.36
13	B1	1001	CYC	C3B-C2B	5.36	1.48	1.36
13	I3	201	CYC	C3B-C2B	5.36	1.48	1.36
13	J6	1001	CYC	C3B-C2B	5.36	1.48	1.36
13	Z6	202	CYC	C3B-C2B	5.36	1.48	1.36
13	J7	1001	CYC	C3B-C2B	5.36	1.48	1.36
13	s8	1001	CYC	C3B-C2B	5.36	1.48	1.36
13	09	1202	CYC	C2A-C3A	5.36	1.48	1.36
13	B2	1001	CYC	C3B-C2B	5.35	1.48	1.36
13	J3	1001	CYC	C3B-C2B	5.35	1.48	1.36
13	L5	201	CYC	C3B-C2B	5.35	1.48	1.36
13	PA	203	CYC	C3B-C2B	5.35	1.48	1.36
13	Z4	202	CYC	C3B-C2B	5.35	1.48	1.36
13	A7	301	CYC	C3B-C2B	5.35	1.48	1.36
13	R2	1001	CYC	C3B-C2B	5.34	1.48	1.36
13	Q1	201	CYC	C3B-C2B	5.34	1.48	1.36
13	D8	1001	CYC	C3B-C2B	5.34	1.48	1.36
13	G7	201	CYC	C3B-C2B	5.34	1.48	1.36
13	h8	1001	CYC	C3B-C2B	5.34	1.48	1.36
13	G6	202	CYC	C3B-C2B	5.34	1.48	1.36
13	O6	1001	CYC	C3B-C2B	5.34	1.48	1.36
13	H1	1001	CYC	C3B-C2B	5.34	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	C6	201	CYC	C3B-C2B	5.34	1.48	1.36
13	N6	302	CYC	C3B-C2B	5.34	1.48	1.36
13	O2	1001	CYC	C3B-C2B	5.34	1.48	1.36
13	q8	1001	CYC	C3B-C2B	5.34	1.48	1.36
13	W8	1001	CYC	C3B-C2B	5.34	1.48	1.36
13	LA	201	CYC	C3B-C2B	5.34	1.48	1.36
13	G3	201	CYC	C3B-C2B	5.33	1.48	1.36
13	C2	201	CYC	C3B-C2B	5.33	1.48	1.36
13	GA	1001	CYC	C3B-C2B	5.33	1.48	1.36
13	K8	1001	CYC	C3B-C2B	5.33	1.48	1.36
13	P5	203	CYC	C3B-C2B	5.33	1.48	1.36
13	J4	1001	CYC	C3B-C2B	5.33	1.48	1.36
13	UA	1001	CYC	C3B-C2B	5.33	1.48	1.36
13	J1	1001	CYC	C3B-C2B	5.33	1.48	1.36
13	AA	303	CYC	CHB-C4A	5.33	1.52	1.40
13	Y6	201	CYC	C3B-C2B	5.33	1.48	1.36
13	09	1201	CYC	C3B-C2B	5.33	1.48	1.36
13	V6	202	CYC	C3B-C2B	5.33	1.48	1.36
13	V2	202	CYC	C3B-C2B	5.33	1.48	1.36
13	J5	1001	CYC	C3B-C2B	5.33	1.48	1.36
13	U4	1001	CYC	C3B-C2B	5.33	1.48	1.36
13	T4	202	CYC	C3B-C2B	5.33	1.48	1.36
13	R6	1001	CYC	C3B-C2B	5.33	1.48	1.36
13	M8	1001	CYC	C3B-C2B	5.33	1.48	1.36
13	19	1201	CYC	C3B-C2B	5.32	1.48	1.36
13	D5	1001	CYC	C3B-C2B	5.32	1.48	1.36
13	T1	202	CYC	C3B-C2B	5.32	1.48	1.36
13	Z2	202	CYC	C3B-C2B	5.32	1.48	1.36
13	R8	1001	CYC	C3B-C2B	5.32	1.48	1.36
13	G4	202	CYC	C3B-C2B	5.32	1.48	1.36
13	M5	1001	CYC	C3B-C2B	5.32	1.48	1.36
13	D3	1001	CYC	C3B-C2B	5.32	1.48	1.36
13	V4	202	CYC	C3B-C2B	5.32	1.48	1.36
13	I8	1001	CYC	C3B-C2B	5.32	1.48	1.36
13	o8	1001	CYC	C3B-C2B	5.32	1.48	1.36
13	F8	1001	CYC	C3B-C2B	5.32	1.48	1.36
13	W5	1001	CYC	C3B-C2B	5.31	1.48	1.36
13	W6	202	CYC	C3B-C2B	5.31	1.48	1.36
13	D7	1001	CYC	C3B-C2B	5.31	1.48	1.36
13	C1	301	CYC	C3B-C2B	5.31	1.48	1.36
13	O1	1001	CYC	C3B-C2B	5.31	1.48	1.36
13	J2	1001	CYC	C3B-C2B	5.31	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	U2	202	CYC	C3B-C2B	5.31	1.48	1.36
13	B5	1001	CYC	C3B-C2B	5.31	1.48	1.36
13	E1	201	CYC	CHB-C1B	5.31	1.50	1.38
13	E4	201	CYC	CHB-C1B	5.31	1.50	1.38
13	Y1	201	CYC	C3B-C2B	5.31	1.48	1.36
13	f8	1001	CYC	C3B-C2B	5.31	1.48	1.36
13	WA	1001	CYC	C3B-C2B	5.31	1.48	1.36
13	d8	1001	CYC	C3B-C2B	5.31	1.48	1.36
13	E5	202	CYC	C3B-C2B	5.31	1.48	1.36
13	k8	1001	CYC	C3B-C2B	5.31	1.48	1.36
13	A5	303	CYC	CHB-C4A	5.31	1.52	1.40
13	W2	202	CYC	C3B-C2B	5.31	1.48	1.36
13	Y5	201	CYC	C3B-C2B	5.31	1.48	1.36
13	Y8	1001	CYC	C3B-C2B	5.31	1.48	1.36
13	V1	202	CYC	C3B-C2B	5.31	1.48	1.36
13	U6	202	CYC	C3B-C2B	5.31	1.48	1.36
13	O5	1001	CYC	C3B-C2B	5.30	1.48	1.36
13	T8	1001	CYC	C3B-C2B	5.30	1.48	1.36
13	E1	201	CYC	C3B-C2B	5.30	1.48	1.36
13	G1	202	CYC	C3B-C2B	5.30	1.48	1.36
13	H2	1001	CYC	C3B-C2B	5.30	1.48	1.36
13	H4	1001	CYC	C3B-C2B	5.30	1.48	1.36
13	P8	1001	CYC	C3B-C2B	5.30	1.48	1.36
13	SA	1001	CYC	C3B-C2B	5.30	1.48	1.36
13	OA	1001	CYC	C3B-C2B	5.30	1.48	1.36
13	DA	1001	CYC	C3B-C2B	5.30	1.48	1.36
13	S4	1001	CYC	C3B-C2B	5.29	1.48	1.36
13	B8	1001	CYC	C3B-C2B	5.29	1.48	1.36
13	b8	1001	CYC	C3B-C2B	5.29	1.48	1.36
13	H7	1001	CYC	C3B-C2B	5.29	1.48	1.36
13	C4	301	CYC	C3B-C2B	5.29	1.48	1.36
13	AA	302	CYC	CHB-C1B	5.29	1.50	1.38
13	E2	201	CYC	CHB-C1B	5.29	1.50	1.38
13	A5	302	CYC	CHB-C1B	5.29	1.50	1.38
13	W1	1001	CYC	C3B-C2B	5.29	1.48	1.36
13	MA	1001	CYC	C3B-C2B	5.29	1.48	1.36
13	Z1	202	CYC	C3B-C2B	5.28	1.48	1.36
13	EA	202	CYC	C3B-C2B	5.28	1.48	1.36
13	AA	301	CYC	CHB-C1B	5.28	1.50	1.38
13	H3	1001	CYC	C3B-C2B	5.28	1.48	1.36
13	JA	1001	CYC	C3B-C2B	5.28	1.48	1.36
13	A5	301	CYC	CHB-C1B	5.28	1.50	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	E6	201	CYC	CHB-C1B	5.28	1.50	1.38
13	U1	1001	CYC	C3B-C2B	5.28	1.48	1.36
13	G9	1001	CYC	C3B-C2B	5.28	1.48	1.36
13	k9	1001	CYC	C3B-C2B	5.28	1.47	1.36
13	AA	304	CYC	CHB-C4A	5.27	1.52	1.40
13	VA	201	CYC	CHB-C4A	5.27	1.52	1.40
13	S1	1001	CYC	C3B-C2B	5.27	1.47	1.36
13	E2	201	CYC	C3B-C2B	5.27	1.47	1.36
13	E7	201	CYC	CHB-C1B	5.27	1.50	1.38
13	AA	302	CYC	C3B-C2B	5.27	1.47	1.36
13	W4	1001	CYC	C3B-C2B	5.27	1.47	1.36
13	E4	201	CYC	C3B-C2B	5.26	1.47	1.36
13	A5	302	CYC	C3B-C2B	5.26	1.47	1.36
13	E6	201	CYC	C3B-C2B	5.26	1.47	1.36
13	H6	1001	CYC	C3B-C2B	5.26	1.47	1.36
13	E3	201	CYC	CHB-C1B	5.26	1.50	1.38
13	S5	1001	CYC	C3B-C2B	5.26	1.47	1.36
13	A5	304	CYC	CHB-C4A	5.26	1.52	1.40
13	YA	201	CYC	C3B-C2B	5.25	1.47	1.36
13	NA	301	CYC	CHB-C4A	5.25	1.52	1.40
13	f9	1001	CYC	C3B-C2B	5.25	1.47	1.36
13	V5	201	CYC	CHB-C4A	5.25	1.52	1.40
13	K9	1001	CYC	C3B-C2B	5.25	1.47	1.36
13	N5	301	CYC	CHB-C4A	5.25	1.52	1.40
13	S6	1001	CYC	C3B-C2B	5.25	1.47	1.36
13	o9	1001	CYC	C3B-C2B	5.24	1.47	1.36
13	Z9	1001	CYC	C3B-C2B	5.24	1.47	1.36
13	I5	201	CYC	CHB-C4A	5.24	1.52	1.40
13	T9	1001	CYC	C3B-C2B	5.24	1.47	1.36
13	E9	1001	CYC	C3B-C2B	5.24	1.47	1.36
13	N9	1001	CYC	C3B-C2B	5.24	1.47	1.36
13	w9	1001	CYC	C3B-C2B	5.24	1.47	1.36
13	i9	1001	CYC	C3B-C2B	5.23	1.47	1.36
13	y9	1001	CYC	C3B-C2B	5.23	1.47	1.36
13	S2	1001	CYC	C3B-C2B	5.23	1.47	1.36
13	Y4	201	CYC	C3B-C2B	5.23	1.47	1.36
13	P9	1001	CYC	C3B-C2B	5.23	1.47	1.36
13	AA	301	CYC	C3B-C2B	5.23	1.47	1.36
13	IA	201	CYC	CHB-C4A	5.23	1.52	1.40
13	C9	1001	CYC	C3B-C2B	5.23	1.47	1.36
13	A9	1001	CYC	C3B-C2B	5.23	1.47	1.36
13	R9	1001	CYC	C3B-C2B	5.22	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	X9	1001	CYC	C3B-C2B	5.22	1.47	1.36
13	u9	1001	CYC	C3B-C2B	5.22	1.47	1.36
13	I9	1001	CYC	C3B-C2B	5.22	1.47	1.36
13	d9	1001	CYC	C3B-C2B	5.21	1.47	1.36
13	E3	201	CYC	C2A-C3A	5.21	1.47	1.36
13	A5	301	CYC	C3B-C2B	5.21	1.47	1.36
13	b9	1001	CYC	C3B-C2B	5.21	1.47	1.36
13	A5	301	CYC	C2A-C3A	5.21	1.47	1.36
13	I6	201	CYC	CHB-C4A	5.21	1.52	1.40
13	s9	1001	CYC	C3B-C2B	5.21	1.47	1.36
13	E7	201	CYC	C3B-C2B	5.21	1.47	1.36
13	T5	201	CYC	CHB-C4A	5.21	1.52	1.40
13	q9	1001	CYC	C3B-C2B	5.20	1.47	1.36
13	AA	301	CYC	C2A-C3A	5.20	1.47	1.36
13	E3	201	CYC	C3B-C2B	5.20	1.47	1.36
13	ZA	201	CYC	CHB-C4A	5.20	1.52	1.40
13	I4	201	CYC	CHB-C4A	5.20	1.52	1.40
13	E7	201	CYC	C2A-C3A	5.20	1.47	1.36
13	TA	201	CYC	CHB-C4A	5.19	1.52	1.40
13	I7	201	CYC	CHB-C4A	5.19	1.52	1.40
13	I2	201	CYC	CHB-C4A	5.18	1.52	1.40
13	AA	302	CYC	C2A-C3A	5.18	1.47	1.36
13	I1	201	CYC	CHB-C4A	5.18	1.52	1.40
13	E2	201	CYC	C2A-C3A	5.18	1.47	1.36
13	Z5	201	CYC	CHB-C4A	5.17	1.52	1.40
13	E1	201	CYC	C2A-C3A	5.17	1.47	1.36
13	A5	302	CYC	C2A-C3A	5.17	1.47	1.36
13	I3	201	CYC	CHB-C4A	5.17	1.52	1.40
13	E4	201	CYC	C2A-C3A	5.16	1.47	1.36
13	E6	201	CYC	C2A-C3A	5.16	1.47	1.36
13	H8	1001	CYC	C2A-C3A	5.16	1.47	1.36
13	X4	201	CYC	CHB-C4A	5.15	1.52	1.40
13	O8	1001	CYC	C2A-C3A	5.15	1.47	1.36
13	X5	201	CYC	CHB-C4A	5.15	1.52	1.40
13	e8	1001	CYC	C2A-C3A	5.14	1.47	1.36
13	X1	201	CYC	CHB-C4A	5.14	1.52	1.40
13	X2	201	CYC	CHB-C4A	5.14	1.52	1.40
13	Z8	1001	CYC	C2A-C3A	5.14	1.47	1.36
13	c8	1001	CYC	C2A-C3A	5.13	1.47	1.36
13	Q8	1001	CYC	C2A-C3A	5.13	1.47	1.36
13	j9	1001	CYC	CHB-C1B	5.13	1.50	1.38
13	X6	201	CYC	CHB-C4A	5.13	1.52	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	c9	1001	CYC	CHB-C1B	5.13	1.50	1.38
13	19	1203	CYC	CHB-C1B	5.13	1.50	1.38
13	n8	1001	CYC	C2A-C3A	5.12	1.47	1.36
13	E8	1001	CYC	C2A-C3A	5.12	1.47	1.36
13	E9	1001	CYC	C2A-C3A	5.12	1.47	1.36
13	R9	1001	CYC	C2A-C3A	5.12	1.47	1.36
13	X9	1001	CYC	C2A-C3A	5.12	1.47	1.36
13	r8	1001	CYC	C2A-C3A	5.12	1.47	1.36
13	V8	1001	CYC	C2A-C3A	5.12	1.47	1.36
13	19	1205	CYC	CHB-C1B	5.12	1.50	1.38
13	r9	1001	CYC	CHB-C1B	5.12	1.50	1.38
13	XA	201	CYC	CHB-C4A	5.11	1.52	1.40
13	q9	1001	CYC	C2A-C3A	5.11	1.47	1.36
13	p8	1001	CYC	C2A-C3A	5.11	1.47	1.36
13	S8	1001	CYC	C2A-C3A	5.11	1.47	1.36
13	09	1202	CYC	C3B-C2B	5.11	1.47	1.36
13	f9	1001	CYC	C2A-C3A	5.11	1.47	1.36
13	v9	1001	CYC	CHB-C1B	5.11	1.50	1.38
13	o9	1001	CYC	C2A-C3A	5.11	1.47	1.36
13	x9	1001	CYC	CHB-C1B	5.11	1.50	1.38
13	m9	201	CYC	C2A-C3A	5.11	1.47	1.36
13	s9	1001	CYC	C2A-C3A	5.11	1.47	1.36
13	w9	1001	CYC	C2A-C3A	5.11	1.47	1.36
13	L8	1001	CYC	C2A-C3A	5.11	1.47	1.36
13	y9	1001	CYC	C2A-C3A	5.11	1.47	1.36
13	D9	1001	CYC	CHB-C1B	5.11	1.50	1.38
13	K9	1001	CYC	C2A-C3A	5.11	1.47	1.36
13	j8	1001	CYC	C2A-C3A	5.11	1.47	1.36
13	19	1204	CYC	CHB-C1B	5.11	1.50	1.38
13	V9	201	CYC	C2A-C3A	5.10	1.47	1.36
13	u9	1001	CYC	C2A-C3A	5.10	1.47	1.36
13	A9	1001	CYC	C2A-C3A	5.10	1.47	1.36
13	N9	1001	CYC	C2A-C3A	5.10	1.47	1.36
13	k9	1001	CYC	C2A-C3A	5.10	1.47	1.36
13	O9	1001	CYC	CHB-C1B	5.10	1.50	1.38
13	z9	1001	CYC	CHB-C1B	5.10	1.50	1.38
13	d9	1001	CYC	C2A-C3A	5.10	1.47	1.36
13	G9	1001	CYC	C2A-C3A	5.10	1.47	1.36
13	X8	1001	CYC	C2A-C3A	5.10	1.47	1.36
13	b9	1001	CYC	C2A-C3A	5.10	1.47	1.36
13	S9	1001	CYC	CHB-C1B	5.10	1.50	1.38
13	l9	1001	CYC	CHB-C1B	5.10	1.50	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	H9	1001	CYC	CHB-C1B	5.10	1.50	1.38
13	C9	1001	CYC	C2A-C3A	5.10	1.47	1.36
13	i9	1001	CYC	C2A-C3A	5.10	1.47	1.36
13	09	1203	CYC	CHB-C1B	5.09	1.50	1.38
13	29	1001	CYC	CHB-C1B	5.09	1.50	1.38
13	l8	1001	CYC	C2A-C3A	5.09	1.47	1.36
13	e9	1001	CYC	CHB-C1B	5.09	1.50	1.38
13	M7	201	CYC	CHA-C1A	5.09	1.39	1.35
13	A8	1001	CYC	C2A-C3A	5.09	1.47	1.36
13	Z9	1001	CYC	C2A-C3A	5.09	1.47	1.36
13	T9	1001	CYC	C2A-C3A	5.09	1.47	1.36
13	J8	1001	CYC	C2A-C3A	5.09	1.47	1.36
13	F9	1001	CYC	CHB-C1B	5.09	1.50	1.38
13	t8	1001	CYC	C2A-C3A	5.09	1.47	1.36
13	P9	1001	CYC	C2A-C3A	5.09	1.47	1.36
13	I9	1001	CYC	C2A-C3A	5.09	1.47	1.36
13	g8	1001	CYC	C2A-C3A	5.09	1.47	1.36
13	B9	1001	CYC	C3B-C2B	5.09	1.47	1.36
13	L9	1001	CYC	CHB-C1B	5.09	1.50	1.38
13	U9	1001	CYC	CHB-C1B	5.08	1.50	1.38
13	C8	1001	CYC	C2A-C3A	5.08	1.47	1.36
13	B9	1001	CYC	CHB-C1B	5.08	1.50	1.38
13	p9	1001	CYC	CHB-C1B	5.08	1.50	1.38
13	19	1205	CYC	C3B-C2B	5.08	1.47	1.36
13	F9	1001	CYC	C3B-C2B	5.08	1.47	1.36
13	39	1001	CYC	CHB-C1B	5.08	1.50	1.38
13	J9	1001	CYC	CHB-C1B	5.08	1.50	1.38
13	r9	1001	CYC	C3B-C2B	5.07	1.47	1.36
13	H9	1001	CYC	C3B-C2B	5.07	1.47	1.36
13	j9	1001	CYC	C3B-C2B	5.07	1.47	1.36
13	c9	1001	CYC	C3B-C2B	5.06	1.47	1.36
13	09	1203	CYC	C3B-C2B	5.06	1.47	1.36
13	M3	201	CYC	CHA-C1A	5.05	1.39	1.35
13	t9	1001	CYC	CHB-C1B	5.05	1.50	1.38
13	r9	1001	CYC	C2A-C3A	5.05	1.47	1.36
13	19	1202	CYC	C2C-C1C	-5.05	1.47	1.52
13	J9	1001	CYC	C2A-C3A	5.05	1.47	1.36
13	F9	1001	CYC	C2A-C3A	5.05	1.47	1.36
13	19	1205	CYC	C2A-C3A	5.05	1.47	1.36
13	e9	1001	CYC	C3B-C2B	5.04	1.47	1.36
13	D9	1001	CYC	C2A-C3A	5.04	1.47	1.36
13	L9	1001	CYC	C3B-C2B	5.04	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	z9	1001	CYC	C3B-C2B	5.04	1.47	1.36
13	D9	1001	CYC	C3B-C2B	5.04	1.47	1.36
13	O9	1001	CYC	C3B-C2B	5.04	1.47	1.36
13	t9	1001	CYC	C3B-C2B	5.04	1.47	1.36
13	x9	1001	CYC	C3B-C2B	5.04	1.47	1.36
13	19	1204	CYC	C3B-C2B	5.04	1.47	1.36
13	T8	1001	CYC	CHB-C1B	5.04	1.50	1.38
13	29	1001	CYC	C3B-C2B	5.03	1.47	1.36
13	M6	201	CYC	CHA-C1A	5.03	1.39	1.35
13	J9	1001	CYC	C3B-C2B	5.03	1.47	1.36
13	M2	201	CYC	CHA-C1A	5.03	1.39	1.35
13	K6	201	CYC	CHA-C1A	5.03	1.39	1.35
13	z9	1001	CYC	C2A-C3A	5.03	1.47	1.36
13	K3	201	CYC	CHA-C1A	5.03	1.39	1.35
13	v9	1001	CYC	C3B-C2B	5.03	1.47	1.36
13	29	1001	CYC	C2A-C3A	5.03	1.47	1.36
13	L9	1001	CYC	C2A-C3A	5.03	1.47	1.36
13	19	1202	CYC	C3B-C2B	5.03	1.47	1.36
13	B9	1001	CYC	C2A-C3A	5.03	1.47	1.36
13	S9	1001	CYC	C3B-C2B	5.03	1.47	1.36
13	39	1001	CYC	C3B-C2B	5.03	1.47	1.36
13	E3	202	CYC	CHA-C1A	5.02	1.39	1.35
13	19	1203	CYC	C3B-C2B	5.02	1.47	1.36
13	U9	1001	CYC	C3B-C2B	5.02	1.47	1.36
13	U9	1001	CYC	C2A-C3A	5.02	1.47	1.36
13	M8	1001	CYC	CHB-C1B	5.02	1.50	1.38
13	p9	1001	CYC	C2A-C3A	5.02	1.47	1.36
13	p9	1001	CYC	C3B-C2B	5.02	1.47	1.36
13	l9	1001	CYC	C3B-C2B	5.02	1.47	1.36
13	s8	1001	CYC	C2A-C3A	5.02	1.47	1.36
13	H9	1001	CYC	C2A-C3A	5.02	1.47	1.36
13	k8	1001	CYC	CHB-C1B	5.02	1.50	1.38
13	19	1203	CYC	C2A-C3A	5.02	1.47	1.36
13	s8	1001	CYC	CHB-C1B	5.02	1.50	1.38
13	t9	1001	CYC	C2A-C3A	5.01	1.47	1.36
13	D8	1001	CYC	CHB-C1B	5.01	1.50	1.38
13	E6	202	CYC	CHA-C1A	5.01	1.39	1.35
13	O9	1001	CYC	C2A-C3A	5.01	1.47	1.36
13	B8	1001	CYC	C2A-C3A	5.01	1.47	1.36
13	v9	1001	CYC	C2A-C3A	5.01	1.47	1.36
13	E7	202	CYC	CHA-C1A	5.01	1.39	1.35
13	R8	1001	CYC	CHB-C1B	5.01	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	b8	1001	CYC	CHB-C1B	5.00	1.49	1.38
13	I8	1001	CYC	CHB-C1B	5.00	1.49	1.38
13	h8	1001	CYC	CHB-C1B	5.00	1.49	1.38
13	o8	1001	CYC	C2A-C3A	5.00	1.47	1.36
13	d8	1001	CYC	C2A-C3A	5.00	1.47	1.36
13	B8	1001	CYC	CHB-C1B	5.00	1.49	1.38
13	c9	1001	CYC	C2A-C3A	5.00	1.47	1.36
13	Y8	1001	CYC	C2A-C3A	5.00	1.47	1.36
13	F8	1001	CYC	C2A-C3A	5.00	1.47	1.36
13	Y8	1001	CYC	CHB-C1B	5.00	1.49	1.38
13	x9	1001	CYC	C2A-C3A	5.00	1.47	1.36
13	39	1001	CYC	C2A-C3A	5.00	1.47	1.36
13	j9	1001	CYC	C2A-C3A	5.00	1.47	1.36
13	V9	201	CYC	C3B-C2B	5.00	1.47	1.36
13	f8	1001	CYC	CHB-C1B	5.00	1.49	1.38
13	e9	1001	CYC	C2A-C3A	5.00	1.47	1.36
13	M4	202	CYC	CHA-C1A	5.00	1.39	1.35
13	09	1203	CYC	C2A-C3A	4.99	1.47	1.36
13	b8	1001	CYC	C2A-C3A	4.99	1.47	1.36
13	K8	1001	CYC	C2A-C3A	4.99	1.47	1.36
13	F8	1001	CYC	CHB-C1B	4.99	1.49	1.38
13	S9	1001	CYC	C2A-C3A	4.99	1.47	1.36
13	o8	1001	CYC	CHB-C1B	4.99	1.49	1.38
13	P8	1001	CYC	CHB-C1B	4.99	1.49	1.38
13	K7	201	CYC	CHA-C1A	4.99	1.39	1.35
13	09	1201	CYC	CHB-C1B	4.99	1.49	1.38
13	19	1204	CYC	C2A-C3A	4.99	1.47	1.36
13	d8	1001	CYC	CHB-C1B	4.99	1.49	1.38
13	W8	1001	CYC	C2A-C3A	4.99	1.47	1.36
13	19	1201	CYC	C2A-C3A	4.98	1.47	1.36
13	19	1201	CYC	CHB-C1B	4.98	1.49	1.38
13	D8	1001	CYC	C2A-C3A	4.98	1.47	1.36
13	f8	1001	CYC	C2A-C3A	4.98	1.47	1.36
13	M8	1001	CYC	C2A-C3A	4.98	1.47	1.36
13	P8	1001	CYC	C2A-C3A	4.98	1.47	1.36
13	09	1201	CYC	C2A-C3A	4.98	1.47	1.36
13	O8	1001	CYC	CHB-C1B	4.98	1.49	1.38
13	T8	1001	CYC	C2A-C3A	4.98	1.47	1.36
13	W8	1001	CYC	CHB-C1B	4.98	1.49	1.38
13	Z8	1001	CYC	CHB-C1B	4.98	1.49	1.38
13	P6	201	CYC	CHA-C1A	4.98	1.39	1.35
13	l9	1001	CYC	C2A-C3A	4.98	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	q8	1001	CYC	CHB-C1B	4.98	1.49	1.38
13	h8	1001	CYC	C2A-C3A	4.97	1.47	1.36
13	k8	1001	CYC	C2A-C3A	4.97	1.47	1.36
13	J8	1001	CYC	CHB-C1B	4.97	1.49	1.38
13	K8	1001	CYC	CHB-C1B	4.97	1.49	1.38
13	A8	1001	CYC	CHB-C1B	4.96	1.49	1.38
13	e8	1001	CYC	CHB-C1B	4.96	1.49	1.38
13	R8	1001	CYC	C2A-C3A	4.96	1.47	1.36
13	m9	201	CYC	C3B-C2B	4.96	1.47	1.36
13	g8	1001	CYC	CHB-C1B	4.96	1.49	1.38
13	I8	1001	CYC	C2A-C3A	4.96	1.47	1.36
13	q8	1001	CYC	C2A-C3A	4.96	1.47	1.36
13	E8	1001	CYC	CHB-C1B	4.96	1.49	1.38
13	H8	1001	CYC	CHB-C1B	4.95	1.49	1.38
13	l8	1001	CYC	CHB-C1B	4.95	1.49	1.38
13	Q8	1001	CYC	CHB-C1B	4.95	1.49	1.38
13	X8	1001	CYC	CHB-C1B	4.95	1.49	1.38
13	j8	1001	CYC	CHB-C1B	4.95	1.49	1.38
13	S8	1001	CYC	CHB-C1B	4.95	1.49	1.38
13	K2	202	CYC	CHA-C1A	4.95	1.39	1.35
13	E5	201	CYC	CHA-C1A	4.95	1.39	1.35
13	C4	302	CYC	CHA-C1A	4.94	1.39	1.35
13	p8	1001	CYC	CHB-C1B	4.94	1.49	1.38
13	L8	1001	CYC	CHB-C1B	4.94	1.49	1.38
13	C8	1001	CYC	CHB-C1B	4.94	1.49	1.38
13	V8	1001	CYC	CHB-C1B	4.94	1.49	1.38
13	c8	1001	CYC	CHB-C1B	4.93	1.49	1.38
13	r8	1001	CYC	CHB-C1B	4.93	1.49	1.38
13	n8	1001	CYC	CHB-C1B	4.93	1.49	1.38
13	y9	1001	CYC	CHB-C1B	4.93	1.49	1.38
13	K6	202	CYC	CHA-C1A	4.92	1.39	1.35
13	C7	201	CYC	CHA-C1A	4.92	1.39	1.35
13	t8	1001	CYC	CHB-C1B	4.92	1.49	1.38
13	W2	203	CYC	CHA-C1A	4.92	1.39	1.35
13	EA	201	CYC	CHA-C1A	4.91	1.39	1.35
13	C9	1001	CYC	CHB-C1B	4.91	1.49	1.38
13	P5	201	CYC	CHA-C1A	4.91	1.39	1.35
13	C1	302	CYC	CHA-C1A	4.91	1.39	1.35
13	E9	1001	CYC	CHB-C1B	4.91	1.49	1.38
13	Z9	1001	CYC	CHB-C1B	4.90	1.49	1.38
13	PA	201	CYC	CHA-C1A	4.90	1.39	1.35
13	X9	1001	CYC	CHB-C1B	4.90	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	b9	1001	CYC	CHB-C1B	4.90	1.49	1.38
13	N9	1001	CYC	CHB-C1B	4.90	1.49	1.38
13	I9	1001	CYC	CHB-C1B	4.90	1.49	1.38
13	E2	202	CYC	CHA-C1A	4.90	1.39	1.35
13	R9	1001	CYC	CHB-C1B	4.89	1.49	1.38
13	P9	1001	CYC	CHB-C1B	4.89	1.49	1.38
13	C2	202	CYC	CHA-C1A	4.89	1.39	1.35
13	A9	1001	CYC	CHB-C1B	4.89	1.49	1.38
13	KA	201	CYC	CHA-C1A	4.88	1.39	1.35
13	w9	1001	CYC	CHB-C1B	4.88	1.49	1.38
13	C3	201	CYC	CHA-C1A	4.88	1.39	1.35
13	f9	1001	CYC	CHB-C1B	4.88	1.49	1.38
13	k9	1001	CYC	CHB-C1B	4.88	1.49	1.38
13	o9	1001	CYC	CHB-C1B	4.88	1.49	1.38
13	K9	1001	CYC	CHB-C1B	4.88	1.49	1.38
13	VA	202	CYC	CHA-C1A	4.87	1.39	1.35
13	s9	1001	CYC	CHB-C1B	4.87	1.49	1.38
13	K7	202	CYC	CHA-C1A	4.87	1.39	1.35
13	u9	1001	CYC	CHB-C1B	4.87	1.49	1.38
13	G9	1001	CYC	CHB-C1B	4.87	1.49	1.38
13	T9	1001	CYC	CHB-C1B	4.87	1.49	1.38
13	E1	202	CYC	CHA-C1A	4.87	1.39	1.35
13	q9	1001	CYC	CHB-C1B	4.87	1.49	1.38
13	i9	1001	CYC	CHB-C1B	4.87	1.49	1.38
13	CA	201	CYC	CHA-C1A	4.86	1.39	1.35
13	Q9	201	CYC	C2A-C3A	4.86	1.47	1.36
13	C6	202	CYC	CHA-C1A	4.86	1.39	1.35
13	d9	1001	CYC	CHB-C1B	4.85	1.49	1.38
13	T2	201	CYC	CHA-C1A	4.85	1.39	1.35
13	T4	201	CYC	CHA-C1A	4.85	1.39	1.35
13	K2	201	CYC	CHA-C1A	4.85	1.39	1.35
13	XA	202	CYC	CHA-C1A	4.85	1.39	1.35
13	V5	201	CYC	CHB-C1B	4.85	1.49	1.38
13	K3	202	CYC	CHA-C1A	4.85	1.39	1.35
13	E4	202	CYC	CHA-C1A	4.85	1.39	1.35
13	X6	202	CYC	CHA-C1A	4.85	1.39	1.35
13	V6	201	CYC	CHA-C1A	4.84	1.39	1.35
13	K4	202	CYC	CHA-C1A	4.84	1.39	1.35
13	P2	201	CYC	CHA-C1A	4.84	1.39	1.35
13	K4	201	CYC	CHA-C1A	4.83	1.39	1.35
13	Z5	202	CYC	CHA-C1A	4.83	1.39	1.35
13	M1	202	CYC	CHA-C1A	4.83	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	Z1	201	CYC	CHA-C1A	4.82	1.39	1.35
13	Z5	201	CYC	CHB-C1B	4.82	1.49	1.38
13	VA	201	CYC	CHB-C1B	4.81	1.49	1.38
13	K1	202	CYC	CHA-C1A	4.81	1.39	1.35
13	X5	202	CYC	CHA-C1A	4.81	1.39	1.35
13	X1	202	CYC	CHA-C1A	4.80	1.39	1.35
13	M5	1003	CYC	CHA-C1A	4.80	1.39	1.35
13	ZA	202	CYC	CHA-C1A	4.80	1.39	1.35
13	X4	202	CYC	CHA-C1A	4.80	1.39	1.35
13	ZA	201	CYC	CHB-C1B	4.79	1.49	1.38
13	g9	1001	CYC	C2A-C3A	4.79	1.46	1.36
13	V2	201	CYC	CHA-C1A	4.79	1.39	1.35
13	P4	201	CYC	CHA-C1A	4.79	1.39	1.35
13	g9	1001	CYC	CHB-C1B	4.79	1.49	1.38
13	Z4	201	CYC	CHA-C1A	4.79	1.39	1.35
13	X2	201	CYC	CHB-C1B	4.78	1.49	1.38
13	XA	201	CYC	CHB-C1B	4.78	1.49	1.38
13	T6	201	CYC	CHA-C1A	4.78	1.39	1.35
13	T5	202	CYC	CHA-C1A	4.77	1.39	1.35
13	X1	201	CYC	CHB-C1B	4.77	1.49	1.38
13	C5	201	CYC	CHA-C1A	4.77	1.39	1.35
13	K5	201	CYC	CHA-C1A	4.77	1.39	1.35
13	V5	202	CYC	CHA-C1A	4.76	1.39	1.35
13	Z6	201	CYC	CHA-C1A	4.76	1.39	1.35
13	X6	201	CYC	CHB-C1B	4.76	1.49	1.38
13	X5	201	CYC	CHB-C1B	4.76	1.49	1.38
13	T1	201	CYC	CHA-C1A	4.75	1.39	1.35
13	X4	201	CYC	CHB-C1B	4.75	1.49	1.38
13	MA	1003	CYC	CHA-C1A	4.74	1.39	1.35
13	IA	201	CYC	CHB-C1B	4.74	1.49	1.38
13	RA	201	CYC	CHA-C1A	4.74	1.39	1.35
13	R5	201	CYC	CHA-C1A	4.74	1.39	1.35
13	TA	202	CYC	CHA-C1A	4.73	1.39	1.35
13	T5	201	CYC	CHB-C1B	4.73	1.49	1.38
13	A5	304	CYC	CHB-C1B	4.73	1.49	1.38
13	TA	201	CYC	CHB-C1B	4.73	1.49	1.38
13	I1	201	CYC	CHB-C1B	4.73	1.49	1.38
13	AA	304	CYC	CHB-C1B	4.72	1.49	1.38
13	GA	1002	CYC	CHA-C1A	4.72	1.39	1.35
13	M4	201	CYC	CHA-C1A	4.71	1.39	1.35
13	G4	201	CYC	CHA-C1A	4.71	1.39	1.35
13	NA	301	CYC	CHB-C1B	4.70	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	N5	301	CYC	CHB-C1B	4.70	1.49	1.38
13	AA	303	CYC	CHB-C1B	4.70	1.49	1.38
13	Q4	202	CYC	CHA-C1A	4.70	1.39	1.35
13	G5	201	CYC	CHA-C1A	4.70	1.39	1.35
13	I4	201	CYC	CHB-C1B	4.70	1.49	1.38
13	I2	201	CYC	CHB-C1B	4.69	1.49	1.38
13	Z2	201	CYC	CHA-C1A	4.69	1.39	1.35
13	V4	201	CYC	CHA-C1A	4.69	1.39	1.35
13	A5	303	CYC	CHB-C1B	4.69	1.49	1.38
13	I5	201	CYC	CHB-C1B	4.69	1.49	1.38
13	P1	201	CYC	CHA-C1A	4.69	1.39	1.35
13	I6	201	CYC	CHB-C1B	4.68	1.49	1.38
13	I7	201	CYC	CHB-C1B	4.68	1.49	1.38
13	AA	301	CYC	C1C-NC	-4.68	1.31	1.37
13	I3	201	CYC	CHB-C1B	4.68	1.49	1.38
13	K1	201	CYC	CHA-C1A	4.68	1.39	1.35
13	V1	201	CYC	CHA-C1A	4.67	1.39	1.35
13	N2	301	CYC	CHA-C1A	4.67	1.39	1.35
13	R1	1001	CYC	CHB-C1B	4.66	1.49	1.38
13	I7	202	CYC	CHA-C1A	4.66	1.39	1.35
13	G6	201	CYC	CHA-C1A	4.66	1.39	1.35
13	N6	301	CYC	CHA-C1A	4.66	1.39	1.35
13	G7	202	CYC	CHA-C1A	4.66	1.39	1.35
13	A5	302	CYC	C2C-C1C	-4.65	1.47	1.52
13	Q1	202	CYC	CHA-C1A	4.65	1.39	1.35
13	U2	201	CYC	CHA-C1A	4.65	1.39	1.35
13	B5	1001	CYC	CHB-C1B	4.65	1.49	1.38
13	W2	202	CYC	CHB-C1B	4.64	1.49	1.38
13	D2	1001	CYC	CHB-C1B	4.64	1.49	1.38
13	M5	1002	CYC	CHA-C1A	4.64	1.39	1.35
13	R2	1001	CYC	CHB-C1B	4.64	1.49	1.38
13	LA	201	CYC	CHB-C1B	4.64	1.49	1.38
13	D6	1001	CYC	CHB-C1B	4.64	1.49	1.38
13	O2	1001	CYC	CHB-C1B	4.64	1.49	1.38
13	W6	202	CYC	CHB-C1B	4.64	1.49	1.38
13	Y5	201	CYC	CHB-C1B	4.63	1.49	1.38
13	MA	1002	CYC	CHA-C1A	4.63	1.39	1.35
13	N7	301	CYC	CHA-C1A	4.63	1.39	1.35
13	m9	201	CYC	CHB-C1B	4.63	1.49	1.38
13	G6	202	CYC	CHB-C1B	4.63	1.49	1.38
13	AA	302	CYC	C2C-C1C	-4.63	1.48	1.52
13	A5	301	CYC	C1C-NC	-4.63	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	P5	203	CYC	CHB-C1B	4.63	1.49	1.38
13	G2	201	CYC	CHA-C1A	4.63	1.39	1.35
13	C1	301	CYC	CHB-C1B	4.63	1.49	1.38
13	YA	201	CYC	CHB-C1B	4.62	1.49	1.38
13	Y2	201	CYC	CHB-C1B	4.62	1.49	1.38
13	G4	202	CYC	CHB-C1B	4.62	1.49	1.38
13	R4	1001	CYC	CHB-C1B	4.62	1.49	1.38
13	U6	202	CYC	CHB-C1B	4.62	1.49	1.38
13	G3	202	CYC	CHA-C1A	4.62	1.39	1.35
13	T4	202	CYC	CHB-C1B	4.62	1.49	1.38
13	V2	202	CYC	CHB-C1B	4.62	1.49	1.38
13	D4	1001	CYC	CHB-C1B	4.62	1.49	1.38
13	Q9	201	CYC	CHB-C1B	4.62	1.49	1.38
13	Y6	201	CYC	CHB-C1B	4.62	1.49	1.38
13	D3	1001	CYC	CHB-C1B	4.62	1.49	1.38
13	D5	1001	CYC	CHB-C1B	4.62	1.49	1.38
13	UA	1001	CYC	CHB-C1B	4.62	1.49	1.38
13	F3	1001	CYC	CHB-C1B	4.62	1.49	1.38
13	PA	203	CYC	CHB-C1B	4.62	1.49	1.38
13	C4	301	CYC	CHB-C1B	4.62	1.49	1.38
13	G2	202	CYC	CHB-C1B	4.62	1.49	1.38
13	J5	1001	CYC	CHB-C1B	4.62	1.49	1.38
13	D1	1001	CYC	CHB-C1B	4.61	1.49	1.38
13	G3	201	CYC	CHB-C1B	4.61	1.49	1.38
13	B7	1001	CYC	CHB-C1B	4.61	1.49	1.38
13	L6	201	CYC	CHB-C1B	4.61	1.49	1.38
13	L7	201	CYC	CHB-C1B	4.61	1.49	1.38
13	U5	1001	CYC	CHB-C1B	4.61	1.49	1.38
13	O6	1001	CYC	CHB-C1B	4.61	1.49	1.38
13	N3	301	CYC	CHA-C1A	4.61	1.39	1.35
13	T1	202	CYC	CHB-C1B	4.61	1.49	1.38
13	J2	1001	CYC	CHB-C1B	4.61	1.49	1.38
13	N2	302	CYC	CHB-C1B	4.61	1.49	1.38
13	U4	1001	CYC	CHB-C1B	4.61	1.49	1.38
13	GA	1001	CYC	CHB-C1B	4.61	1.49	1.38
13	I3	202	CYC	CHA-C1A	4.61	1.39	1.35
13	V9	201	CYC	CHB-C1B	4.61	1.49	1.38
13	G1	202	CYC	CHB-C1B	4.61	1.49	1.38
13	B2	1001	CYC	CHB-C1B	4.60	1.49	1.38
13	Q1	201	CYC	CHB-C1B	4.60	1.49	1.38
13	O1	1001	CYC	CHB-C1B	4.60	1.49	1.38
13	DA	1001	CYC	CHB-C1B	4.60	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	Z2	202	CYC	CHB-C1B	4.60	1.49	1.38
13	U6	201	CYC	CHA-C1A	4.60	1.39	1.35
13	W4	1001	CYC	CHB-C1B	4.60	1.49	1.38
13	E2	201	CYC	C2C-C1C	-4.60	1.48	1.52
13	Q4	201	CYC	CHB-C1B	4.60	1.49	1.38
13	M1	201	CYC	CHA-C1A	4.60	1.39	1.35
13	B3	1001	CYC	CHB-C1B	4.59	1.48	1.38
13	E7	201	CYC	C2C-C1C	-4.59	1.48	1.52
13	WA	1001	CYC	CHB-C1B	4.59	1.48	1.38
13	J1	1001	CYC	CHB-C1B	4.59	1.48	1.38
13	EA	202	CYC	CHB-C1B	4.59	1.48	1.38
13	L2	201	CYC	CHB-C1B	4.59	1.48	1.38
13	S4	1001	CYC	CHB-C1B	4.59	1.48	1.38
13	Z6	202	CYC	CHB-C1B	4.59	1.48	1.38
13	E6	201	CYC	C2C-C1C	-4.59	1.48	1.52
13	G7	201	CYC	CHB-C1B	4.59	1.48	1.38
13	W1	1001	CYC	CHB-C1B	4.59	1.48	1.38
13	S5	1001	CYC	CHB-C1B	4.59	1.48	1.38
13	D7	1001	CYC	CHB-C1B	4.59	1.48	1.38
13	L5	201	CYC	CHB-C1B	4.59	1.48	1.38
13	G1	201	CYC	CHA-C1A	4.59	1.39	1.35
13	N6	302	CYC	CHB-C1B	4.59	1.48	1.38
13	V4	202	CYC	CHB-C1B	4.59	1.48	1.38
13	R6	1001	CYC	CHB-C1B	4.59	1.48	1.38
13	L4	201	CYC	CHB-C1B	4.59	1.48	1.38
13	L3	201	CYC	CHB-C1B	4.58	1.48	1.38
13	M5	1001	CYC	CHB-C1B	4.58	1.48	1.38
13	F7	1001	CYC	CHB-C1B	4.58	1.48	1.38
13	W5	1001	CYC	CHB-C1B	4.58	1.48	1.38
13	L1	201	CYC	CHB-C1B	4.58	1.48	1.38
13	C6	201	CYC	CHB-C1B	4.58	1.48	1.38
13	U2	202	CYC	CHB-C1B	4.58	1.48	1.38
13	J4	1001	CYC	CHB-C1B	4.58	1.48	1.38
13	J7	1001	CYC	CHB-C1B	4.58	1.48	1.38
13	E3	201	CYC	C1C-NC	-4.58	1.31	1.37
13	J3	1001	CYC	CHB-C1B	4.58	1.48	1.38
13	O4	1001	CYC	CHB-C1B	4.57	1.48	1.38
13	B6	1001	CYC	CHB-C1B	4.57	1.48	1.38
13	Y1	201	CYC	CHB-C1B	4.57	1.48	1.38
13	Y4	201	CYC	CHB-C1B	4.57	1.48	1.38
13	F2	1001	CYC	CHB-C1B	4.57	1.48	1.38
13	Z4	202	CYC	CHB-C1B	4.57	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	SA	1001	CYC	CHB-C1B	4.57	1.48	1.38
13	E5	202	CYC	CHB-C1B	4.57	1.48	1.38
13	H4	1001	CYC	CHB-C1B	4.57	1.48	1.38
13	V6	202	CYC	CHB-C1B	4.57	1.48	1.38
13	C2	201	CYC	CHB-C1B	4.56	1.48	1.38
13	U1	1001	CYC	CHB-C1B	4.56	1.48	1.38
13	S1	1001	CYC	CHB-C1B	4.56	1.48	1.38
13	JA	1001	CYC	CHB-C1B	4.56	1.48	1.38
13	O5	1001	CYC	CHB-C1B	4.56	1.48	1.38
13	H6	1001	CYC	CHB-C1B	4.56	1.48	1.38
13	Q6	201	CYC	CHB-C1B	4.56	1.48	1.38
13	OA	1001	CYC	CHB-C1B	4.56	1.48	1.38
13	MA	1001	CYC	CHB-C1B	4.56	1.48	1.38
13	F6	1001	CYC	CHB-C1B	4.56	1.48	1.38
13	H7	1001	CYC	CHB-C1B	4.56	1.48	1.38
13	Q2	201	CYC	CHB-C1B	4.56	1.48	1.38
13	J6	1001	CYC	CHB-C1B	4.56	1.48	1.38
13	H2	1001	CYC	CHB-C1B	4.55	1.48	1.38
13	A3	301	CYC	C2A-C3A	4.55	1.46	1.36
13	A5	302	CYC	C1C-NC	-4.55	1.31	1.37
13	Z1	202	CYC	CHB-C1B	4.55	1.48	1.38
13	F4	1001	CYC	CHB-C1B	4.55	1.48	1.38
13	S6	1001	CYC	CHB-C1B	4.54	1.48	1.38
13	S2	1001	CYC	CHB-C1B	4.54	1.48	1.38
13	B4	1001	CYC	CHB-C1B	4.54	1.48	1.38
13	V1	202	CYC	CHB-C1B	4.54	1.48	1.38
13	A7	301	CYC	C2A-C3A	4.54	1.46	1.36
13	IA	202	CYC	CHA-C1A	4.53	1.38	1.35
13	A5	301	CYC	C2C-C1C	-4.53	1.48	1.52
13	H1	1001	CYC	CHB-C1B	4.53	1.48	1.38
13	H3	1001	CYC	CHB-C1B	4.53	1.48	1.38
13	I5	202	CYC	CHA-C1A	4.53	1.38	1.35
13	A7	301	CYC	CHB-C1B	4.53	1.48	1.38
13	A3	301	CYC	CHB-C1B	4.53	1.48	1.38
13	E3	201	CYC	C2C-C1C	-4.52	1.48	1.52
13	F1	1001	CYC	CHB-C1B	4.52	1.48	1.38
13	AA	302	CYC	C1C-NC	-4.51	1.31	1.37
13	U6	202	CYC	C2A-C3A	4.51	1.46	1.36
13	E7	201	CYC	C1C-NC	-4.51	1.31	1.37
13	B1	1001	CYC	CHB-C1B	4.50	1.48	1.38
13	AA	301	CYC	C2C-C1C	-4.50	1.48	1.52
13	U2	202	CYC	C2A-C3A	4.49	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	C2	201	CYC	C2A-C3A	4.49	1.46	1.36
13	I6	202	CYC	CHA-C1A	4.49	1.38	1.35
13	W1	1001	CYC	C2A-C3A	4.49	1.46	1.36
13	C6	201	CYC	C2A-C3A	4.49	1.46	1.36
13	E4	201	CYC	C1C-NC	-4.49	1.31	1.37
13	W4	1001	CYC	C2A-C3A	4.48	1.46	1.36
13	P1	202	CYC	CHA-C1A	4.48	1.38	1.35
13	W6	202	CYC	C2A-C3A	4.48	1.46	1.36
13	I2	202	CYC	CHA-C1A	4.47	1.38	1.35
13	W2	202	CYC	C2A-C3A	4.47	1.46	1.36
13	L7	201	CYC	C2A-C3A	4.46	1.46	1.36
13	T1	202	CYC	C2A-C3A	4.46	1.46	1.36
13	LA	201	CYC	C2A-C3A	4.46	1.46	1.36
13	U1	1001	CYC	C2A-C3A	4.46	1.46	1.36
13	Y4	201	CYC	C2A-C3A	4.46	1.46	1.36
13	S4	1001	CYC	C2A-C3A	4.46	1.46	1.36
13	L3	201	CYC	C2A-C3A	4.46	1.46	1.36
13	SA	1001	CYC	C2A-C3A	4.45	1.46	1.36
13	E6	201	CYC	C1C-NC	-4.45	1.31	1.37
13	C1	301	CYC	C2A-C3A	4.45	1.46	1.36
13	C4	301	CYC	C2A-C3A	4.45	1.46	1.36
13	J2	1001	CYC	C2A-C3A	4.45	1.46	1.36
13	L5	201	CYC	C2A-C3A	4.45	1.46	1.36
13	Y5	201	CYC	C2A-C3A	4.45	1.46	1.36
13	WA	1001	CYC	C2A-C3A	4.45	1.46	1.36
13	Y1	201	CYC	C2A-C3A	4.44	1.46	1.36
13	Y6	201	CYC	C2A-C3A	4.44	1.46	1.36
13	Y2	201	CYC	C2A-C3A	4.44	1.46	1.36
13	L4	201	CYC	C2A-C3A	4.44	1.46	1.36
13	T4	202	CYC	C2A-C3A	4.44	1.46	1.36
13	N2	302	CYC	C2A-C3A	4.44	1.46	1.36
13	E4	201	CYC	C2C-C1C	-4.44	1.48	1.52
13	E2	201	CYC	C1C-NC	-4.44	1.31	1.37
13	U4	1001	CYC	C2A-C3A	4.43	1.46	1.36
13	Z2	202	CYC	C2A-C3A	4.43	1.46	1.36
13	YA	201	CYC	C2A-C3A	4.43	1.46	1.36
13	S5	1001	CYC	C2A-C3A	4.43	1.46	1.36
13	R1	1001	CYC	C2A-C3A	4.43	1.46	1.36
13	M5	1001	CYC	C2A-C3A	4.43	1.46	1.36
13	L2	201	CYC	C2A-C3A	4.42	1.46	1.36
13	E5	202	CYC	C2A-C3A	4.42	1.46	1.36
13	F6	1001	CYC	C2A-C3A	4.42	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	L1	201	CYC	C2A-C3A	4.42	1.46	1.36
13	S2	1001	CYC	C2A-C3A	4.42	1.46	1.36
13	R4	1001	CYC	C2A-C3A	4.42	1.46	1.36
13	JA	1001	CYC	C2A-C3A	4.42	1.46	1.36
13	J7	1001	CYC	C2A-C3A	4.42	1.46	1.36
13	Q6	201	CYC	C2A-C3A	4.42	1.46	1.36
13	N6	302	CYC	C2A-C3A	4.42	1.46	1.36
13	OA	1001	CYC	C2A-C3A	4.42	1.46	1.36
13	S1	1001	CYC	C2A-C3A	4.42	1.46	1.36
13	UA	1001	CYC	C2A-C3A	4.42	1.46	1.36
13	J4	1001	CYC	C2A-C3A	4.41	1.46	1.36
13	O5	1001	CYC	C2A-C3A	4.41	1.46	1.36
13	S6	1001	CYC	C2A-C3A	4.41	1.46	1.36
13	H4	1001	CYC	C2A-C3A	4.41	1.46	1.36
13	L6	201	CYC	C2A-C3A	4.41	1.46	1.36
13	O2	1001	CYC	C2A-C3A	4.41	1.46	1.36
13	J3	1001	CYC	C2A-C3A	4.41	1.46	1.36
13	EA	202	CYC	C2A-C3A	4.41	1.46	1.36
13	Z6	202	CYC	C2A-C3A	4.41	1.46	1.36
13	V1	202	CYC	C2A-C3A	4.40	1.46	1.36
13	O4	1001	CYC	C2A-C3A	4.40	1.46	1.36
13	G3	201	CYC	C2A-C3A	4.40	1.46	1.36
13	J6	1001	CYC	C2A-C3A	4.40	1.46	1.36
13	PA	203	CYC	C2A-C3A	4.40	1.46	1.36
13	J5	1001	CYC	C2A-C3A	4.40	1.46	1.36
13	U5	1001	CYC	C2A-C3A	4.40	1.46	1.36
13	W5	1001	CYC	C2A-C3A	4.40	1.46	1.36
13	G6	202	CYC	C2A-C3A	4.40	1.46	1.36
13	O6	1001	CYC	C2A-C3A	4.40	1.46	1.36
13	E1	201	CYC	C1C-NC	-4.40	1.31	1.37
13	P5	202	CYC	CHA-C1A	4.40	1.38	1.35
13	V4	202	CYC	C2A-C3A	4.39	1.46	1.36
13	O1	1001	CYC	C2A-C3A	4.39	1.46	1.36
13	Q2	201	CYC	C2A-C3A	4.39	1.46	1.36
13	V6	202	CYC	C2A-C3A	4.39	1.46	1.36
13	MA	1001	CYC	C2A-C3A	4.39	1.46	1.36
13	B1	1001	CYC	C2A-C3A	4.39	1.46	1.36
13	F7	1001	CYC	C2A-C3A	4.39	1.46	1.36
13	F3	1001	CYC	C2A-C3A	4.39	1.46	1.36
13	Q4	201	CYC	C2A-C3A	4.39	1.46	1.36
13	B5	1001	CYC	C2A-C3A	4.39	1.46	1.36
13	J1	1001	CYC	C2A-C3A	4.39	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	F2	1001	CYC	C2A-C3A	4.39	1.46	1.36
13	D7	1001	CYC	C2A-C3A	4.39	1.46	1.36
13	D4	1001	CYC	C2A-C3A	4.38	1.46	1.36
13	DA	1001	CYC	C2A-C3A	4.38	1.46	1.36
13	G1	202	CYC	C2A-C3A	4.38	1.46	1.36
13	D5	1001	CYC	C2A-C3A	4.38	1.46	1.36
13	D3	1001	CYC	C2A-C3A	4.37	1.46	1.36
13	Z4	202	CYC	C2A-C3A	4.37	1.46	1.36
13	P5	203	CYC	C2A-C3A	4.37	1.46	1.36
13	GA	1001	CYC	C2A-C3A	4.37	1.46	1.36
13	E1	201	CYC	C2C-C1C	-4.37	1.48	1.52
13	H1	1001	CYC	C2A-C3A	4.37	1.46	1.36
13	D1	1001	CYC	C2A-C3A	4.36	1.46	1.36
13	G2	202	CYC	C2A-C3A	4.36	1.46	1.36
13	Q1	201	CYC	C2A-C3A	4.36	1.46	1.36
13	G7	201	CYC	C2A-C3A	4.36	1.46	1.36
13	D2	1001	CYC	C2A-C3A	4.36	1.46	1.36
13	P4	202	CYC	CHA-C1A	4.36	1.38	1.35
13	V9	201	CYC	C1C-NC	-4.36	1.32	1.37
13	PA	202	CYC	CHA-C1A	4.35	1.38	1.35
13	G4	202	CYC	C2A-C3A	4.35	1.46	1.36
13	B4	1001	CYC	C2A-C3A	4.35	1.46	1.36
13	R6	1001	CYC	C2A-C3A	4.35	1.46	1.36
13	B2	1001	CYC	C2A-C3A	4.35	1.46	1.36
13	D6	1001	CYC	C2A-C3A	4.35	1.46	1.36
13	R2	1001	CYC	C2A-C3A	4.35	1.46	1.36
13	V2	202	CYC	C2A-C3A	4.34	1.45	1.36
13	m9	201	CYC	C1C-NC	-4.33	1.32	1.37
13	H2	1001	CYC	C2A-C3A	4.33	1.45	1.36
13	H6	1001	CYC	C2A-C3A	4.33	1.45	1.36
13	I1	202	CYC	CHA-C1A	4.32	1.38	1.35
13	Z1	202	CYC	C2A-C3A	4.32	1.45	1.36
13	AA	304	CYC	C2C-C1C	-4.32	1.48	1.52
13	F1	1001	CYC	C2A-C3A	4.32	1.45	1.36
13	H3	1001	CYC	C2A-C3A	4.32	1.45	1.36
13	F4	1001	CYC	C2A-C3A	4.31	1.45	1.36
13	09	1202	CYC	CHB-C1B	4.31	1.48	1.38
13	W6	201	CYC	CHA-C1A	4.30	1.38	1.35
13	A5	304	CYC	C2C-C1C	-4.30	1.48	1.52
13	B6	1001	CYC	C2A-C3A	4.30	1.45	1.36
13	H7	1001	CYC	C2A-C3A	4.29	1.45	1.36
13	L9	1001	CYC	C1C-NC	-4.29	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	I4	202	CYC	CHA-C1A	4.28	1.38	1.35
13	B7	1001	CYC	C2A-C3A	4.27	1.45	1.36
13	B3	1001	CYC	C2A-C3A	4.26	1.45	1.36
13	09	1203	CYC	C1C-NC	-4.26	1.32	1.37
13	19	1203	CYC	C1C-NC	-4.26	1.32	1.37
13	p8	1001	CYC	CHB-C4A	4.26	1.50	1.40
13	f8	1001	CYC	CHB-C4A	4.26	1.50	1.40
13	Q9	201	CYC	C1C-NC	-4.25	1.32	1.37
13	v9	1001	CYC	C1C-NC	-4.25	1.32	1.37
13	c9	1001	CYC	C1C-NC	-4.25	1.32	1.37
13	k9	1001	CYC	CHB-C4A	4.25	1.50	1.40
13	k8	1001	CYC	CHB-C4A	4.25	1.50	1.40
13	19	1205	CYC	C1C-NC	-4.25	1.32	1.37
13	g8	1001	CYC	CHB-C4A	4.24	1.50	1.40
13	o8	1001	CYC	CHB-C4A	4.24	1.50	1.40
13	s8	1001	CYC	CHB-C4A	4.24	1.50	1.40
13	P8	1001	CYC	CHB-C4A	4.24	1.50	1.40
13	Y8	1001	CYC	CHB-C4A	4.24	1.50	1.40
13	M8	1001	CYC	CHB-C4A	4.24	1.50	1.40
13	S9	1001	CYC	C1C-NC	-4.24	1.32	1.37
13	E8	1001	CYC	CHB-C4A	4.24	1.50	1.40
13	H9	1001	CYC	C1C-NC	-4.24	1.32	1.37
13	e8	1001	CYC	CHB-C4A	4.23	1.50	1.40
13	u9	1001	CYC	CHB-C4A	4.23	1.50	1.40
13	19	1204	CYC	C1C-NC	-4.23	1.32	1.37
13	C8	1001	CYC	CHB-C4A	4.23	1.50	1.40
13	L8	1001	CYC	CHB-C4A	4.23	1.50	1.40
13	l8	1001	CYC	CHB-C4A	4.23	1.50	1.40
13	29	1001	CYC	C1C-NC	-4.23	1.32	1.37
13	z9	1001	CYC	C1C-NC	-4.23	1.32	1.37
13	J8	1001	CYC	CHB-C4A	4.23	1.50	1.40
13	V8	1001	CYC	CHB-C4A	4.23	1.50	1.40
13	b8	1001	CYC	CHB-C4A	4.23	1.50	1.40
13	t9	1001	CYC	C1C-NC	-4.23	1.32	1.37
13	19	1201	CYC	CHB-C4A	4.23	1.50	1.40
13	w9	1001	CYC	CHB-C4A	4.23	1.50	1.40
13	n8	1001	CYC	CHB-C4A	4.22	1.50	1.40
13	B8	1001	CYC	CHB-C4A	4.22	1.50	1.40
13	R8	1001	CYC	CHB-C4A	4.22	1.50	1.40
13	q8	1001	CYC	CHB-C4A	4.22	1.50	1.40
13	O9	1001	CYC	C1C-NC	-4.22	1.32	1.37
13	h8	1001	CYC	CHB-C4A	4.22	1.50	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	S8	1001	CYC	CHB-C4A	4.22	1.50	1.40
13	r8	1001	CYC	CHB-C4A	4.22	1.50	1.40
13	t8	1001	CYC	CHB-C4A	4.22	1.50	1.40
13	o9	1001	CYC	CHB-C4A	4.22	1.50	1.40
13	d9	1001	CYC	CHB-C4A	4.22	1.50	1.40
13	W8	1001	CYC	CHB-C4A	4.22	1.50	1.40
13	T9	1001	CYC	CHB-C4A	4.21	1.50	1.40
13	b9	1001	CYC	CHB-C4A	4.21	1.50	1.40
13	i9	1001	CYC	CHB-C4A	4.21	1.50	1.40
13	F8	1001	CYC	CHB-C4A	4.21	1.50	1.40
13	O8	1001	CYC	CHB-C4A	4.21	1.50	1.40
13	c8	1001	CYC	CHB-C4A	4.21	1.50	1.40
13	K8	1001	CYC	CHB-C4A	4.21	1.50	1.40
13	D9	1001	CYC	C1C-NC	-4.21	1.32	1.37
13	I8	1001	CYC	CHB-C4A	4.21	1.50	1.40
13	d8	1001	CYC	CHB-C4A	4.21	1.50	1.40
13	j8	1001	CYC	CHB-C4A	4.21	1.50	1.40
13	W2	201	CYC	CHA-C1A	4.21	1.38	1.35
13	q9	1001	CYC	CHB-C4A	4.20	1.50	1.40
13	x9	1001	CYC	C1C-NC	-4.20	1.32	1.37
13	J9	1001	CYC	C1C-NC	-4.20	1.32	1.37
13	09	1201	CYC	CHB-C4A	4.20	1.50	1.40
13	Q8	1001	CYC	CHB-C4A	4.20	1.50	1.40
13	R9	1001	CYC	CHB-C4A	4.20	1.50	1.40
13	X9	1001	CYC	CHB-C4A	4.20	1.50	1.40
13	s9	1001	CYC	CHB-C4A	4.20	1.50	1.40
13	I9	1001	CYC	CHB-C4A	4.20	1.50	1.40
13	E9	1001	CYC	CHB-C4A	4.20	1.50	1.40
13	G9	1001	CYC	CHB-C4A	4.19	1.50	1.40
13	X8	1001	CYC	CHB-C4A	4.19	1.50	1.40
13	f9	1001	CYC	CHB-C4A	4.19	1.50	1.40
13	H8	1001	CYC	CHB-C4A	4.19	1.50	1.40
13	A9	1001	CYC	CHB-C4A	4.19	1.50	1.40
13	D8	1001	CYC	CHB-C4A	4.19	1.50	1.40
13	A8	1001	CYC	CHB-C4A	4.19	1.50	1.40
13	T8	1001	CYC	CHB-C4A	4.19	1.50	1.40
13	B9	1001	CYC	C1C-NC	-4.19	1.32	1.37
13	Z9	1001	CYC	CHB-C4A	4.19	1.50	1.40
13	K9	1001	CYC	CHB-C4A	4.19	1.50	1.40
13	e9	1001	CYC	C1C-NC	-4.19	1.32	1.37
13	P9	1001	CYC	CHB-C4A	4.18	1.50	1.40
13	Z8	1001	CYC	CHB-C4A	4.18	1.50	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	N9	1001	CYC	CHB-C4A	4.18	1.50	1.40
13	y9	1001	CYC	CHB-C4A	4.18	1.50	1.40
13	p9	1001	CYC	C1C-NC	-4.18	1.32	1.37
13	F9	1001	CYC	C1C-NC	-4.18	1.32	1.37
13	C9	1001	CYC	CHB-C4A	4.18	1.50	1.40
13	l9	1001	CYC	C1C-NC	-4.18	1.32	1.37
13	j9	1001	CYC	C1C-NC	-4.18	1.32	1.37
13	r9	1001	CYC	C1C-NC	-4.17	1.32	1.37
13	U9	1001	CYC	C1C-NC	-4.17	1.32	1.37
13	E1	201	CYC	CHB-C4A	4.17	1.50	1.40
13	E3	201	CYC	CHB-C4A	4.17	1.50	1.40
13	f8	1001	CYC	OB-C4B	4.17	1.31	1.23
13	s8	1001	CYC	OB-C4B	4.17	1.31	1.23
13	h8	1001	CYC	OB-C4B	4.16	1.31	1.23
13	39	1001	CYC	C1C-NC	-4.16	1.32	1.37
13	M8	1001	CYC	OB-C4B	4.16	1.31	1.23
13	d8	1001	CYC	OB-C4B	4.16	1.31	1.23
13	Y8	1001	CYC	OB-C4B	4.16	1.31	1.23
13	E7	201	CYC	CHB-C4A	4.16	1.50	1.40
13	E2	201	CYC	CHB-C4A	4.15	1.50	1.40
13	I8	1001	CYC	OB-C4B	4.15	1.31	1.23
13	q8	1001	CYC	OB-C4B	4.15	1.31	1.23
13	F8	1001	CYC	OB-C4B	4.14	1.31	1.23
13	K8	1001	CYC	OB-C4B	4.14	1.31	1.23
13	E4	201	CYC	CHB-C4A	4.14	1.50	1.40
13	E6	201	CYC	CHB-C4A	4.14	1.50	1.40
13	09	1201	CYC	OB-C4B	4.13	1.31	1.23
13	R8	1001	CYC	OB-C4B	4.13	1.31	1.23
13	A5	302	CYC	CHB-C4A	4.13	1.50	1.40
13	19	1201	CYC	OB-C4B	4.13	1.31	1.23
13	P8	1001	CYC	OB-C4B	4.13	1.31	1.23
13	D8	1001	CYC	OB-C4B	4.12	1.31	1.23
13	W8	1001	CYC	OB-C4B	4.12	1.31	1.23
13	B8	1001	CYC	OB-C4B	4.12	1.31	1.23
13	k8	1001	CYC	OB-C4B	4.12	1.31	1.23
13	T8	1001	CYC	OB-C4B	4.12	1.31	1.23
13	o8	1001	CYC	OB-C4B	4.12	1.31	1.23
13	A5	301	CYC	CHB-C4A	4.11	1.50	1.40
13	b8	1001	CYC	OB-C4B	4.11	1.31	1.23
13	XA	201	CYC	C2C-C1C	-4.11	1.48	1.52
13	AA	301	CYC	CHB-C4A	4.10	1.50	1.40
13	AA	302	CYC	CHB-C4A	4.10	1.50	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	J6	1001	CYC	C1C-NC	-4.06	1.32	1.37
13	S6	1001	CYC	C1C-NC	-4.05	1.32	1.37
13	g9	1001	CYC	C1C-NC	-4.05	1.32	1.37
13	S2	1001	CYC	C1C-NC	-4.04	1.32	1.37
13	I7	201	CYC	C1A-NA	-4.03	1.29	1.38
13	I6	201	CYC	C2C-C1C	-4.03	1.48	1.52
13	X4	201	CYC	C2C-C1C	-4.02	1.48	1.52
13	V9	201	CYC	CHB-C4A	4.02	1.49	1.40
13	I3	201	CYC	C1A-NA	-4.01	1.30	1.38
13	I7	201	CYC	C2C-C1C	-4.01	1.48	1.52
13	g9	1001	CYC	CHB-C4A	4.01	1.49	1.40
13	X5	201	CYC	C2C-C1C	-4.01	1.48	1.52
13	S4	1001	CYC	C1C-NC	-4.01	1.32	1.37
13	I2	201	CYC	C1A-NA	-4.01	1.30	1.38
13	m9	201	CYC	CHB-C4A	4.00	1.49	1.40
13	J2	1001	CYC	C1C-NC	-4.00	1.32	1.37
13	B2	1001	CYC	C1C-NC	-4.00	1.32	1.37
13	IA	201	CYC	C1A-NA	-4.00	1.30	1.38
13	J1	1001	CYC	C1C-NC	-3.99	1.32	1.37
13	W2	202	CYC	C1C-NC	-3.99	1.32	1.37
13	X1	201	CYC	C1A-NA	-3.99	1.30	1.38
13	S1	1001	CYC	C1C-NC	-3.99	1.32	1.37
13	X2	201	CYC	C2C-C1C	-3.98	1.48	1.52
13	W4	1001	CYC	C1C-NC	-3.98	1.32	1.37
13	I1	201	CYC	C1A-NA	-3.98	1.30	1.38
13	I3	201	CYC	C2C-C1C	-3.98	1.48	1.52
13	W6	202	CYC	C1C-NC	-3.97	1.32	1.37
13	N5	301	CYC	C1A-NA	-3.97	1.30	1.38
13	SA	1001	CYC	C1C-NC	-3.97	1.32	1.37
13	X4	201	CYC	C1A-NA	-3.97	1.30	1.38
13	J4	1001	CYC	C1C-NC	-3.97	1.32	1.37
13	I6	201	CYC	C1A-NA	-3.97	1.30	1.38
13	W1	1001	CYC	C1C-NC	-3.97	1.32	1.37
13	J7	1001	CYC	C1C-NC	-3.96	1.32	1.37
13	B3	1001	CYC	C1C-NC	-3.96	1.32	1.37
13	I2	201	CYC	C2C-C1C	-3.96	1.48	1.52
13	B7	1001	CYC	C1C-NC	-3.96	1.32	1.37
13	I4	201	CYC	C1A-NA	-3.96	1.30	1.38
13	H1	1001	CYC	C1C-NC	-3.95	1.32	1.37
13	X5	201	CYC	C1A-NA	-3.95	1.30	1.38
13	XA	201	CYC	C1A-NA	-3.95	1.30	1.38
13	I5	201	CYC	C1A-NA	-3.95	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	X1	201	CYC	C2C-C1C	-3.94	1.48	1.52
13	AA	303	CYC	C2C-C1C	-3.94	1.48	1.52
13	P5	203	CYC	C1C-NC	-3.94	1.32	1.37
13	G3	201	CYC	C1C-NC	-3.94	1.32	1.37
13	Z5	201	CYC	C1A-NA	-3.94	1.30	1.38
13	Y2	201	CYC	C1C-NC	-3.94	1.32	1.37
13	J3	1001	CYC	C1C-NC	-3.94	1.32	1.37
13	B1	1001	CYC	C1C-NC	-3.94	1.32	1.37
13	AA	303	CYC	C1A-NA	-3.93	1.30	1.38
13	U6	202	CYC	C1C-NC	-3.93	1.32	1.37
13	B4	1001	CYC	C1C-NC	-3.93	1.32	1.37
13	I1	201	CYC	C2C-C1C	-3.93	1.48	1.52
13	NA	301	CYC	C2C-C1C	-3.93	1.48	1.52
13	Y4	201	CYC	C1C-NC	-3.93	1.32	1.37
13	Y6	201	CYC	C1C-NC	-3.93	1.32	1.37
13	Z1	202	CYC	C1C-NC	-3.92	1.32	1.37
13	NA	301	CYC	C1A-NA	-3.92	1.30	1.38
13	A5	303	CYC	C1A-NA	-3.92	1.30	1.38
13	X6	201	CYC	C1A-NA	-3.92	1.30	1.38
13	PA	203	CYC	C1C-NC	-3.91	1.32	1.37
13	Y1	201	CYC	C1C-NC	-3.91	1.32	1.37
13	A5	304	CYC	C1A-NA	-3.91	1.30	1.38
13	T1	202	CYC	C1C-NC	-3.91	1.32	1.37
13	U2	202	CYC	C1C-NC	-3.91	1.32	1.37
13	O4	1001	CYC	C1C-NC	-3.91	1.32	1.37
13	Q9	201	CYC	CHB-C4A	3.91	1.49	1.40
13	X2	201	CYC	C1A-NA	-3.91	1.30	1.38
13	ZA	201	CYC	C1A-NA	-3.91	1.30	1.38
13	V5	201	CYC	C2C-C1C	-3.91	1.48	1.52
13	H4	1001	CYC	C1C-NC	-3.90	1.32	1.37
13	UA	1001	CYC	C1C-NC	-3.90	1.32	1.37
13	AA	304	CYC	C1A-NA	-3.90	1.30	1.38
13	B6	1001	CYC	C1C-NC	-3.90	1.32	1.37
13	I4	201	CYC	C2C-C1C	-3.90	1.48	1.52
13	F3	1001	CYC	C1C-NC	-3.90	1.32	1.37
13	L5	201	CYC	C1C-NC	-3.90	1.32	1.37
13	O2	1001	CYC	C1C-NC	-3.90	1.32	1.37
13	Y5	201	CYC	C1C-NC	-3.89	1.32	1.37
13	J5	1001	CYC	C1C-NC	-3.89	1.32	1.37
13	G6	202	CYC	C1C-NC	-3.89	1.32	1.37
13	A5	303	CYC	C2C-C1C	-3.89	1.48	1.52
13	T4	202	CYC	C1C-NC	-3.89	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	G7	201	CYC	C1C-NC	-3.89	1.32	1.37
13	X6	201	CYC	C2C-C1C	-3.89	1.48	1.52
13	H7	1001	CYC	C1C-NC	-3.89	1.32	1.37
13	H6	1001	CYC	C1C-NC	-3.89	1.32	1.37
13	GA	1001	CYC	C1C-NC	-3.89	1.32	1.37
13	R2	1001	CYC	C1C-NC	-3.88	1.32	1.37
13	F7	1001	CYC	C1C-NC	-3.88	1.32	1.37
13	f8	1001	CYC	C1C-NC	-3.88	1.32	1.37
13	D1	1001	CYC	C1C-NC	-3.88	1.32	1.37
13	D5	1001	CYC	C1C-NC	-3.88	1.32	1.37
13	G4	202	CYC	C1C-NC	-3.88	1.32	1.37
13	S5	1001	CYC	C1C-NC	-3.88	1.32	1.37
13	WA	1001	CYC	C1C-NC	-3.88	1.32	1.37
13	H3	1001	CYC	C1C-NC	-3.88	1.32	1.37
13	G1	202	CYC	C1C-NC	-3.87	1.32	1.37
13	B5	1001	CYC	C1C-NC	-3.87	1.32	1.37
13	I5	201	CYC	C2C-C1C	-3.87	1.48	1.52
13	D2	1001	CYC	C1C-NC	-3.87	1.32	1.37
13	Z4	202	CYC	C1C-NC	-3.87	1.32	1.37
13	T5	201	CYC	C2C-C1C	-3.86	1.48	1.52
13	OA	1001	CYC	C1C-NC	-3.86	1.32	1.37
13	W5	1001	CYC	C1C-NC	-3.86	1.32	1.37
13	D7	1001	CYC	C1C-NC	-3.86	1.32	1.37
13	O6	1001	CYC	C1C-NC	-3.86	1.32	1.37
13	B3	1001	CYC	CHB-C4A	3.86	1.49	1.40
13	V5	201	CYC	C1A-NA	-3.86	1.30	1.38
13	H7	1001	CYC	CHB-C4A	3.85	1.49	1.40
13	EA	202	CYC	C1C-NC	-3.85	1.32	1.37
13	O5	1001	CYC	C1C-NC	-3.85	1.32	1.37
13	B7	1001	CYC	CHB-C4A	3.85	1.49	1.40
13	LA	201	CYC	C1C-NC	-3.85	1.32	1.37
13	T5	201	CYC	C1A-NA	-3.85	1.30	1.38
13	T8	1001	CYC	C1C-NC	-3.85	1.32	1.37
13	JA	1001	CYC	C1C-NC	-3.85	1.32	1.37
13	Q4	201	CYC	C1C-NC	-3.85	1.32	1.37
13	H3	1001	CYC	CHB-C4A	3.85	1.49	1.40
13	Q1	201	CYC	C1C-NC	-3.84	1.32	1.37
13	g9	1001	CYC	C2C-C1C	-3.84	1.48	1.52
13	O1	1001	CYC	C1C-NC	-3.84	1.32	1.37
13	U5	1001	CYC	C1C-NC	-3.84	1.32	1.37
13	s8	1001	CYC	C1C-NC	-3.84	1.32	1.37
13	DA	1001	CYC	C1C-NC	-3.84	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	VA	201	CYC	C1A-NA	-3.84	1.30	1.38
13	B8	1001	CYC	C1C-NC	-3.84	1.32	1.37
13	O4	1001	CYC	CHB-C4A	3.84	1.49	1.40
13	D6	1001	CYC	C1C-NC	-3.84	1.32	1.37
13	YA	201	CYC	C1C-NC	-3.84	1.32	1.37
13	H2	1001	CYC	CHB-C4A	3.84	1.49	1.40
13	N5	301	CYC	C2C-C1C	-3.84	1.48	1.52
13	O1	1001	CYC	CHB-C4A	3.84	1.49	1.40
13	L1	201	CYC	C1C-NC	-3.84	1.32	1.37
13	U4	1001	CYC	C1C-NC	-3.83	1.32	1.37
13	L6	201	CYC	C1C-NC	-3.83	1.32	1.37
13	TA	201	CYC	C1A-NA	-3.83	1.30	1.38
13	S1	1001	CYC	CHB-C4A	3.83	1.49	1.40
13	T4	202	CYC	CHB-C4A	3.83	1.49	1.40
13	L5	201	CYC	CHB-C4A	3.83	1.49	1.40
13	S2	1001	CYC	CHB-C4A	3.83	1.49	1.40
13	D4	1001	CYC	C1C-NC	-3.83	1.32	1.37
13	O5	1001	CYC	CHB-C4A	3.83	1.49	1.40
13	W4	1001	CYC	CHB-C4A	3.83	1.49	1.40
13	N6	302	CYC	C1C-NC	-3.83	1.32	1.37
13	T1	202	CYC	CHB-C4A	3.83	1.49	1.40
13	Z1	202	CYC	CHB-C4A	3.83	1.49	1.40
13	N2	302	CYC	C1C-NC	-3.83	1.32	1.37
13	h8	1001	CYC	C1C-NC	-3.83	1.32	1.37
13	W5	1001	CYC	CHB-C4A	3.83	1.49	1.40
13	H6	1001	CYC	CHB-C4A	3.82	1.49	1.40
13	IA	201	CYC	C2C-C1C	-3.82	1.48	1.52
13	WA	1001	CYC	CHB-C4A	3.82	1.49	1.40
13	TA	201	CYC	C2C-C1C	-3.82	1.48	1.52
13	VA	201	CYC	C2C-C1C	-3.82	1.48	1.52
13	H4	1001	CYC	CHB-C4A	3.82	1.49	1.40
13	Z4	202	CYC	CHB-C4A	3.82	1.49	1.40
13	V6	202	CYC	CHB-C4A	3.82	1.49	1.40
13	H1	1001	CYC	CHB-C4A	3.82	1.49	1.40
13	M5	1001	CYC	CHB-C4A	3.82	1.49	1.40
13	Z5	201	CYC	C2C-C1C	-3.82	1.48	1.52
13	M5	1001	CYC	C1C-NC	-3.82	1.32	1.37
13	R4	1001	CYC	C1C-NC	-3.82	1.32	1.37
13	J6	1001	CYC	CHB-C4A	3.82	1.49	1.40
13	Q6	201	CYC	C1C-NC	-3.82	1.32	1.37
13	F8	1001	CYC	C1C-NC	-3.82	1.32	1.37
13	V1	202	CYC	CHB-C4A	3.82	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	S4	1001	CYC	CHB-C4A	3.82	1.49	1.40
13	I8	1001	CYC	C1C-NC	-3.82	1.32	1.37
13	Y8	1001	CYC	C1C-NC	-3.82	1.32	1.37
13	G2	202	CYC	CHB-C4A	3.81	1.49	1.40
13	F7	1001	CYC	CHB-C4A	3.81	1.49	1.40
13	k8	1001	CYC	C1C-NC	-3.81	1.32	1.37
13	B1	1001	CYC	CHB-C4A	3.81	1.49	1.40
13	H2	1001	CYC	C1C-NC	-3.81	1.32	1.37
13	R6	1001	CYC	C1C-NC	-3.81	1.32	1.37
13	Y4	201	CYC	CHB-C4A	3.81	1.49	1.40
13	L7	201	CYC	C1C-NC	-3.81	1.32	1.37
13	Q2	201	CYC	C1C-NC	-3.81	1.32	1.37
13	L4	201	CYC	C1C-NC	-3.81	1.32	1.37
13	C1	301	CYC	C1C-NC	-3.81	1.32	1.37
13	N6	302	CYC	CHB-C4A	3.81	1.49	1.40
13	W6	202	CYC	CHB-C4A	3.81	1.49	1.40
13	J2	1001	CYC	CHB-C4A	3.81	1.49	1.40
13	G3	201	CYC	CHB-C4A	3.81	1.49	1.40
13	OA	1001	CYC	CHB-C4A	3.81	1.49	1.40
13	09	1201	CYC	C1C-NC	-3.81	1.32	1.37
13	G7	201	CYC	CHB-C4A	3.81	1.49	1.40
13	D3	1001	CYC	C1C-NC	-3.80	1.32	1.37
13	MA	1001	CYC	CHB-C4A	3.80	1.49	1.40
13	A7	301	CYC	CHB-C4A	3.80	1.49	1.40
13	W1	1001	CYC	CHB-C4A	3.80	1.49	1.40
13	SA	1001	CYC	CHB-C4A	3.80	1.49	1.40
13	L2	201	CYC	CHB-C4A	3.80	1.49	1.40
13	D1	1001	CYC	CHB-C4A	3.80	1.49	1.40
13	C2	201	CYC	C1C-NC	-3.80	1.32	1.37
13	J1	1001	CYC	CHB-C4A	3.80	1.49	1.40
13	A3	301	CYC	CHB-C4A	3.80	1.49	1.40
13	L3	201	CYC	CHB-C4A	3.80	1.49	1.40
13	L7	201	CYC	CHB-C4A	3.80	1.49	1.40
13	b8	1001	CYC	C1C-NC	-3.80	1.32	1.37
13	Y6	201	CYC	CHB-C4A	3.80	1.49	1.40
13	J7	1001	CYC	CHB-C4A	3.80	1.49	1.40
13	e9	1001	CYC	CHB-C4A	3.80	1.49	1.40
13	F1	1001	CYC	CHB-C4A	3.80	1.49	1.40
13	C2	201	CYC	CHB-C4A	3.80	1.49	1.40
13	D8	1001	CYC	C1C-NC	-3.80	1.32	1.37
13	J4	1001	CYC	CHB-C4A	3.80	1.49	1.40
13	JA	1001	CYC	CHB-C4A	3.80	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	E5	202	CYC	C1C-NC	-3.80	1.32	1.37
13	YA	201	CYC	CHB-C4A	3.80	1.49	1.40
13	L6	201	CYC	CHB-C4A	3.80	1.49	1.40
13	o8	1001	CYC	C1C-NC	-3.79	1.32	1.37
13	d8	1001	CYC	C1C-NC	-3.79	1.32	1.37
13	l9	1001	CYC	CHB-C4A	3.79	1.49	1.40
13	F3	1001	CYC	CHB-C4A	3.79	1.49	1.40
13	B2	1001	CYC	CHB-C4A	3.79	1.49	1.40
13	C6	201	CYC	CHB-C4A	3.79	1.49	1.40
13	ZA	201	CYC	C2C-C1C	-3.79	1.48	1.52
13	G6	202	CYC	CHB-C4A	3.79	1.49	1.40
13	LA	201	CYC	CHB-C4A	3.79	1.49	1.40
13	L2	201	CYC	C1C-NC	-3.79	1.32	1.37
13	DA	1001	CYC	CHB-C4A	3.79	1.49	1.40
13	R4	1001	CYC	CHB-C4A	3.79	1.49	1.40
13	J9	1001	CYC	CHB-C4A	3.79	1.49	1.40
13	B4	1001	CYC	CHB-C4A	3.79	1.49	1.40
13	L1	201	CYC	CHB-C4A	3.79	1.49	1.40
13	N2	302	CYC	CHB-C4A	3.79	1.49	1.40
13	R8	1001	CYC	C1C-NC	-3.79	1.32	1.37
13	C6	201	CYC	C1C-NC	-3.79	1.32	1.37
13	D9	1001	CYC	CHB-C4A	3.79	1.49	1.40
13	L3	201	CYC	C1C-NC	-3.79	1.32	1.37
13	L4	201	CYC	CHB-C4A	3.78	1.49	1.40
13	W2	202	CYC	CHB-C4A	3.78	1.49	1.40
13	V4	202	CYC	CHB-C4A	3.78	1.49	1.40
13	H9	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	B9	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	F2	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	R2	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	S5	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	M8	1001	CYC	C1C-NC	-3.78	1.32	1.37
13	GA	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	K8	1001	CYC	C1C-NC	-3.78	1.32	1.37
13	D7	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	Z2	202	CYC	C1C-NC	-3.78	1.32	1.37
13	t9	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	D4	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	F9	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	P8	1001	CYC	C1C-NC	-3.78	1.32	1.37
13	Q2	201	CYC	CHB-C4A	3.78	1.49	1.40
13	J3	1001	CYC	CHB-C4A	3.78	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	U1	1001	CYC	C1C-NC	-3.78	1.32	1.37
13	D5	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	Y5	201	CYC	CHB-C4A	3.78	1.49	1.40
13	L9	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	O9	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	S6	1001	CYC	CHB-C4A	3.78	1.49	1.40
13	G2	202	CYC	C1C-NC	-3.78	1.32	1.37
13	F4	1001	CYC	CHB-C4A	3.77	1.49	1.40
13	p9	1001	CYC	CHB-C4A	3.77	1.49	1.40
13	Y1	201	CYC	CHB-C4A	3.77	1.49	1.40
13	MA	1001	CYC	C1C-NC	-3.77	1.32	1.37
13	V2	202	CYC	CHB-C4A	3.77	1.49	1.40
13	E5	202	CYC	CHB-C4A	3.77	1.49	1.40
13	B6	1001	CYC	CHB-C4A	3.77	1.49	1.40
13	19	1203	CYC	CHB-C4A	3.77	1.49	1.40
13	r9	1001	CYC	CHB-C4A	3.77	1.49	1.40
13	B5	1001	CYC	CHB-C4A	3.77	1.49	1.40
13	J5	1001	CYC	CHB-C4A	3.77	1.49	1.40
13	D6	1001	CYC	CHB-C4A	3.77	1.49	1.40
13	F6	1001	CYC	C1C-NC	-3.77	1.32	1.37
13	c9	1001	CYC	CHB-C4A	3.77	1.49	1.40
13	C4	301	CYC	C1C-NC	-3.77	1.32	1.37
13	19	1201	CYC	C1C-NC	-3.77	1.32	1.37
13	EA	202	CYC	CHB-C4A	3.77	1.49	1.40
13	Y2	201	CYC	CHB-C4A	3.77	1.49	1.40
13	Z2	202	CYC	CHB-C4A	3.77	1.49	1.40
13	S9	1001	CYC	CHB-C4A	3.77	1.49	1.40
13	R6	1001	CYC	CHB-C4A	3.76	1.49	1.40
13	C4	301	CYC	CHB-C4A	3.76	1.49	1.40
13	O6	1001	CYC	CHB-C4A	3.76	1.49	1.40
13	Z6	202	CYC	CHB-C4A	3.76	1.49	1.40
13	39	1001	CYC	CHB-C4A	3.76	1.49	1.40
13	G4	202	CYC	CHB-C4A	3.76	1.49	1.40
13	F6	1001	CYC	CHB-C4A	3.76	1.49	1.40
13	09	1203	CYC	CHB-C4A	3.76	1.49	1.40
13	19	1204	CYC	CHB-C4A	3.76	1.49	1.40
13	U2	202	CYC	CHB-C4A	3.76	1.49	1.40
13	D2	1001	CYC	CHB-C4A	3.76	1.49	1.40
13	j9	1001	CYC	CHB-C4A	3.75	1.49	1.40
13	R1	1001	CYC	C1C-NC	-3.75	1.32	1.37
13	R1	1001	CYC	CHB-C4A	3.75	1.49	1.40
13	UA	1001	CYC	CHB-C4A	3.75	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	D3	1001	CYC	CHB-C4A	3.75	1.49	1.40
13	U9	1001	CYC	CHB-C4A	3.75	1.49	1.40
13	U5	1001	CYC	CHB-C4A	3.75	1.49	1.40
13	G1	202	CYC	CHB-C4A	3.75	1.49	1.40
13	z9	1001	CYC	CHB-C4A	3.75	1.49	1.40
13	W8	1001	CYC	C1C-NC	-3.75	1.32	1.37
13	29	1001	CYC	CHB-C4A	3.75	1.49	1.40
13	U4	1001	CYC	CHB-C4A	3.75	1.49	1.40
13	Q4	201	CYC	CHB-C4A	3.74	1.49	1.40
13	U1	1001	CYC	CHB-C4A	3.74	1.49	1.40
13	x9	1001	CYC	CHB-C4A	3.74	1.49	1.40
13	Q1	201	CYC	CHB-C4A	3.74	1.49	1.40
13	O2	1001	CYC	CHB-C4A	3.74	1.49	1.40
13	V6	202	CYC	C1C-NC	-3.74	1.32	1.37
13	q8	1001	CYC	C1C-NC	-3.74	1.32	1.37
13	19	1205	CYC	CHB-C4A	3.74	1.49	1.40
13	Z6	202	CYC	C1C-NC	-3.74	1.32	1.37
13	C1	301	CYC	CHB-C4A	3.74	1.49	1.40
13	v9	1001	CYC	CHB-C4A	3.74	1.49	1.40
13	V2	202	CYC	C1C-NC	-3.73	1.32	1.37
13	Q6	201	CYC	CHB-C4A	3.73	1.49	1.40
13	P5	203	CYC	CHB-C4A	3.73	1.49	1.40
13	PA	203	CYC	CHB-C4A	3.73	1.49	1.40
13	U6	202	CYC	CHB-C4A	3.73	1.49	1.40
13	F2	1001	CYC	C1C-NC	-3.72	1.32	1.37
13	V4	202	CYC	C1C-NC	-3.72	1.32	1.37
13	A3	301	CYC	C1C-NC	-3.70	1.32	1.37
13	A7	301	CYC	C1C-NC	-3.67	1.32	1.37
13	V1	202	CYC	C1C-NC	-3.66	1.32	1.37
13	F4	1001	CYC	C1C-NC	-3.66	1.32	1.37
13	q8	1001	CYC	C3D-C2D	3.64	1.48	1.37
13	R8	1001	CYC	C3D-C2D	3.64	1.48	1.37
13	h8	1001	CYC	C3D-C2D	3.64	1.48	1.37
13	T8	1001	CYC	C3D-C2D	3.63	1.48	1.37
13	F1	1001	CYC	C1C-NC	-3.63	1.32	1.37
13	P8	1001	CYC	C3D-C2D	3.63	1.48	1.37
13	k8	1001	CYC	C3D-C2D	3.63	1.48	1.37
13	Y8	1001	CYC	C3D-C2D	3.62	1.48	1.37
13	I8	1001	CYC	C3D-C2D	3.62	1.48	1.37
13	K8	1001	CYC	C3D-C2D	3.62	1.48	1.37
13	d8	1001	CYC	C3D-C2D	3.62	1.48	1.37
13	s8	1001	CYC	C3D-C2D	3.62	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	M8	1001	CYC	C3D-C2D	3.62	1.48	1.37
13	b8	1001	CYC	C3D-C2D	3.62	1.48	1.37
13	19	1201	CYC	C3D-C2D	3.62	1.48	1.37
13	09	1201	CYC	C3D-C2D	3.61	1.48	1.37
13	f8	1001	CYC	C3D-C2D	3.61	1.48	1.37
13	D8	1001	CYC	C3D-C2D	3.61	1.48	1.37
13	W8	1001	CYC	C3D-C2D	3.61	1.48	1.37
13	B8	1001	CYC	C3D-C2D	3.61	1.48	1.37
13	F8	1001	CYC	C3D-C2D	3.61	1.48	1.37
13	W8	1001	CYC	C2C-C1C	-3.60	1.48	1.52
13	o8	1001	CYC	C3D-C2D	3.60	1.48	1.37
13	J8	1001	CYC	C3D-C2D	3.60	1.48	1.37
13	n8	1001	CYC	C3D-C2D	3.60	1.48	1.37
13	H8	1001	CYC	C3D-C2D	3.59	1.48	1.37
13	09	1202	CYC	C2C-C1C	-3.59	1.48	1.52
13	t8	1001	CYC	C3D-C2D	3.59	1.48	1.37
13	C8	1001	CYC	C3D-C2D	3.59	1.48	1.37
13	A8	1001	CYC	C3D-C2D	3.58	1.48	1.37
13	l8	1001	CYC	C3D-C2D	3.58	1.48	1.37
13	Z8	1001	CYC	C3D-C2D	3.58	1.48	1.37
13	p8	1001	CYC	C3D-C2D	3.58	1.48	1.37
13	L8	1001	CYC	C3D-C2D	3.58	1.48	1.37
13	V8	1001	CYC	C3D-C2D	3.58	1.48	1.37
13	r8	1001	CYC	C3D-C2D	3.58	1.48	1.37
13	S8	1001	CYC	C3D-C2D	3.58	1.48	1.37
13	X8	1001	CYC	C3D-C2D	3.58	1.48	1.37
13	g8	1001	CYC	C3D-C2D	3.58	1.48	1.37
13	e8	1001	CYC	C3D-C2D	3.57	1.48	1.37
13	O8	1001	CYC	C3D-C2D	3.57	1.48	1.37
13	c8	1001	CYC	C3D-C2D	3.57	1.48	1.37
13	E8	1001	CYC	C3D-C2D	3.57	1.48	1.37
13	j8	1001	CYC	C3D-C2D	3.56	1.48	1.37
13	D8	1001	CYC	C2C-C1C	-3.56	1.48	1.52
13	k8	1001	CYC	C2C-C1C	-3.55	1.48	1.52
13	Q8	1001	CYC	C3D-C2D	3.55	1.48	1.37
13	h8	1001	CYC	C2C-C1C	-3.52	1.48	1.52
13	09	1202	CYC	C1C-NC	-3.50	1.33	1.37
13	19	1202	CYC	CHB-C1B	3.49	1.46	1.38
13	f8	1001	CYC	C2C-C1C	-3.49	1.49	1.52
13	Q9	201	CYC	C2C-C1C	-3.49	1.49	1.52
13	AA	301	CYC	C3D-C2D	3.49	1.48	1.37
13	R8	1001	CYC	C2C-C1C	-3.48	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A5	301	CYC	C3D-C2D	3.48	1.48	1.37
13	I8	1001	CYC	C2C-C1C	-3.48	1.49	1.52
13	T8	1001	CYC	C2C-C1C	-3.48	1.49	1.52
13	K8	1001	CYC	C2C-C1C	-3.48	1.49	1.52
13	M8	1001	CYC	C2C-C1C	-3.47	1.49	1.52
13	Y8	1001	CYC	C2C-C1C	-3.47	1.49	1.52
13	s8	1001	CYC	C2C-C1C	-3.47	1.49	1.52
13	E4	201	CYC	C3D-C2D	3.47	1.47	1.37
13	P8	1001	CYC	C2C-C1C	-3.47	1.49	1.52
13	b8	1001	CYC	C2C-C1C	-3.46	1.49	1.52
13	09	1202	CYC	CHB-C4A	3.46	1.48	1.40
13	E7	201	CYC	C3D-C2D	3.46	1.47	1.37
13	E1	201	CYC	C3D-C2D	3.46	1.47	1.37
13	E3	201	CYC	C3D-C2D	3.45	1.47	1.37
13	AA	302	CYC	C3D-C2D	3.45	1.47	1.37
13	19	1201	CYC	C2C-C1C	-3.45	1.49	1.52
13	A5	302	CYC	C3D-C2D	3.44	1.47	1.37
13	q8	1001	CYC	C2C-C1C	-3.44	1.49	1.52
13	d8	1001	CYC	C2C-C1C	-3.43	1.49	1.52
13	09	1201	CYC	C2C-C1C	-3.43	1.49	1.52
13	E2	201	CYC	C3D-C2D	3.41	1.47	1.37
13	F8	1001	CYC	C2C-C1C	-3.41	1.49	1.52
13	C9	1001	CYC	C3D-C2D	3.40	1.47	1.37
13	TA	201	CYC	C1D-CHD	3.40	1.54	1.41
13	VA	201	CYC	C1D-CHD	3.40	1.54	1.41
13	b9	1001	CYC	C3D-C2D	3.39	1.47	1.37
13	E6	201	CYC	C3D-C2D	3.39	1.47	1.37
13	i9	1001	CYC	C3D-C2D	3.39	1.47	1.37
13	B8	1001	CYC	C2C-C1C	-3.39	1.49	1.52
13	T5	201	CYC	C1D-CHD	3.39	1.54	1.41
13	G9	1001	CYC	C3D-C2D	3.38	1.47	1.37
13	V5	201	CYC	C1D-CHD	3.38	1.54	1.41
13	Z5	201	CYC	C1D-CHD	3.38	1.54	1.41
13	d9	1001	CYC	C3D-C2D	3.38	1.47	1.37
13	q9	1001	CYC	C3D-C2D	3.38	1.47	1.37
13	y9	1001	CYC	C3D-C2D	3.38	1.47	1.37
13	ZA	201	CYC	C1D-CHD	3.38	1.54	1.41
13	AA	304	CYC	C1D-CHD	3.38	1.54	1.41
13	X9	1001	CYC	C3D-C2D	3.38	1.47	1.37
13	X6	201	CYC	C1D-CHD	3.38	1.54	1.41
13	K9	1001	CYC	C3D-C2D	3.38	1.47	1.37
13	N9	1001	CYC	C3D-C2D	3.38	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	R9	1001	CYC	C3D-C2D	3.37	1.47	1.37
13	u9	1001	CYC	C3D-C2D	3.37	1.47	1.37
13	o8	1001	CYC	C2C-C1C	-3.37	1.49	1.52
13	f9	1001	CYC	C3D-C2D	3.37	1.47	1.37
13	P9	1001	CYC	C3D-C2D	3.37	1.47	1.37
13	I2	201	CYC	C1D-CHD	3.37	1.54	1.41
13	E9	1001	CYC	C3D-C2D	3.37	1.47	1.37
13	A5	304	CYC	C1D-CHD	3.37	1.54	1.41
13	IA	201	CYC	C1D-CHD	3.37	1.54	1.41
13	T9	1001	CYC	C3D-C2D	3.37	1.47	1.37
13	X1	201	CYC	C1D-CHD	3.37	1.54	1.41
13	s9	1001	CYC	C3D-C2D	3.36	1.47	1.37
13	A9	1001	CYC	C3D-C2D	3.36	1.47	1.37
13	o9	1001	CYC	C3D-C2D	3.36	1.47	1.37
13	I4	201	CYC	C1D-CHD	3.36	1.54	1.41
13	w9	1001	CYC	C3D-C2D	3.36	1.47	1.37
13	X2	201	CYC	C1D-CHD	3.36	1.54	1.41
13	I6	201	CYC	C1D-CHD	3.36	1.54	1.41
13	k9	1001	CYC	C3D-C2D	3.35	1.47	1.37
13	I5	201	CYC	C1D-CHD	3.35	1.54	1.41
13	I9	1001	CYC	C3D-C2D	3.35	1.47	1.37
13	L3	201	CYC	C3D-C2D	3.34	1.47	1.37
13	X4	201	CYC	C1D-CHD	3.34	1.54	1.41
13	Z9	1001	CYC	C3D-C2D	3.34	1.47	1.37
13	I1	201	CYC	C1D-CHD	3.34	1.54	1.41
13	A5	303	CYC	C1D-CHD	3.34	1.54	1.41
13	F6	1001	CYC	C3D-C2D	3.34	1.47	1.37
13	V1	202	CYC	C3D-C2D	3.34	1.47	1.37
13	F7	1001	CYC	C3D-C2D	3.34	1.47	1.37
13	L7	201	CYC	C3D-C2D	3.34	1.47	1.37
13	V6	202	CYC	C3D-C2D	3.33	1.47	1.37
13	V2	202	CYC	C3D-C2D	3.33	1.47	1.37
13	XA	201	CYC	C1D-CHD	3.33	1.54	1.41
13	C2	201	CYC	C3D-C2D	3.33	1.47	1.37
13	I7	201	CYC	C1D-CHD	3.33	1.54	1.41
13	X5	201	CYC	C1D-CHD	3.33	1.54	1.41
13	V4	202	CYC	C3D-C2D	3.33	1.47	1.37
13	B6	1001	CYC	C3D-C2D	3.33	1.47	1.37
13	B3	1001	CYC	C3D-C2D	3.33	1.47	1.37
13	F3	1001	CYC	C3D-C2D	3.32	1.47	1.37
13	N9	1001	CYC	C2C-C1C	-3.32	1.49	1.52
13	B7	1001	CYC	C3D-C2D	3.32	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	Z1	202	CYC	C3D-C2D	3.32	1.47	1.37
13	w9	1001	CYC	C2C-C1C	-3.32	1.49	1.52
13	AA	303	CYC	C1D-CHD	3.32	1.54	1.41
13	I3	201	CYC	C1D-CHD	3.32	1.54	1.41
13	Z4	202	CYC	C3D-C2D	3.32	1.47	1.37
13	I2	201	CYC	OB-C4B	3.31	1.29	1.23
13	T1	202	CYC	C3D-C2D	3.31	1.47	1.37
13	N5	301	CYC	C1D-CHD	3.31	1.54	1.41
13	B2	1001	CYC	C3D-C2D	3.31	1.47	1.37
13	Z2	202	CYC	C3D-C2D	3.31	1.47	1.37
13	X2	201	CYC	OB-C4B	3.31	1.29	1.23
13	H7	1001	CYC	C3D-C2D	3.31	1.47	1.37
13	b9	1001	CYC	C2C-C1C	-3.31	1.49	1.52
13	F2	1001	CYC	C3D-C2D	3.31	1.47	1.37
13	J6	1001	CYC	C3D-C2D	3.31	1.47	1.37
13	C6	201	CYC	C3D-C2D	3.31	1.47	1.37
13	H9	1001	CYC	C3D-C2D	3.30	1.47	1.37
13	F1	1001	CYC	C3D-C2D	3.30	1.47	1.37
13	N6	302	CYC	C3D-C2D	3.30	1.47	1.37
13	L5	201	CYC	C3D-C2D	3.30	1.47	1.37
13	Z6	202	CYC	C3D-C2D	3.30	1.47	1.37
13	J9	1001	CYC	C3D-C2D	3.30	1.47	1.37
13	I6	201	CYC	OB-C4B	3.30	1.29	1.23
13	B5	1001	CYC	C3D-C2D	3.30	1.47	1.37
13	DA	1001	CYC	C3D-C2D	3.30	1.47	1.37
13	X6	201	CYC	OB-C4B	3.30	1.29	1.23
13	H3	1001	CYC	C3D-C2D	3.30	1.47	1.37
13	NA	301	CYC	C1D-CHD	3.30	1.53	1.41
13	X1	201	CYC	OB-C4B	3.30	1.29	1.23
13	19	1203	CYC	C3D-C2D	3.30	1.47	1.37
13	G2	202	CYC	C3D-C2D	3.30	1.47	1.37
13	T9	1001	CYC	C2C-C1C	-3.30	1.49	1.52
13	29	1001	CYC	C3D-C2D	3.30	1.47	1.37
13	D9	1001	CYC	C3D-C2D	3.29	1.47	1.37
13	F4	1001	CYC	C3D-C2D	3.29	1.47	1.37
13	S5	1001	CYC	C3D-C2D	3.29	1.47	1.37
13	G7	201	CYC	C3D-C2D	3.29	1.47	1.37
13	c9	1001	CYC	C3D-C2D	3.29	1.47	1.37
13	R4	1001	CYC	C3D-C2D	3.29	1.47	1.37
13	R2	1001	CYC	C3D-C2D	3.29	1.47	1.37
13	L1	201	CYC	C3D-C2D	3.29	1.47	1.37
13	SA	1001	CYC	C3D-C2D	3.29	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	G6	202	CYC	C3D-C2D	3.29	1.47	1.37
13	JA	1001	CYC	C3D-C2D	3.29	1.47	1.37
13	A7	301	CYC	C3D-C2D	3.29	1.47	1.37
13	H2	1001	CYC	C3D-C2D	3.29	1.47	1.37
13	B4	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	X4	201	CYC	OB-C4B	3.28	1.29	1.23
13	X9	1001	CYC	C2C-C1C	-3.28	1.49	1.52
13	J3	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	C1	301	CYC	C3D-C2D	3.28	1.47	1.37
13	G1	202	CYC	C3D-C2D	3.28	1.47	1.37
13	F9	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	D5	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	19	1204	CYC	C3D-C2D	3.28	1.47	1.37
13	l9	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	L9	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	J4	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	U5	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	j9	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	O2	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	U9	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	GA	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	D6	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	09	1203	CYC	C3D-C2D	3.28	1.47	1.37
13	J7	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	J5	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	UA	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	D2	1001	CYC	C3D-C2D	3.28	1.47	1.37
13	C4	301	CYC	C3D-C2D	3.28	1.47	1.37
13	O5	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	J1	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	YA	201	CYC	C3D-C2D	3.27	1.47	1.37
13	G4	202	CYC	C3D-C2D	3.27	1.47	1.37
13	v9	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	J2	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	ZA	201	CYC	C4A-C3A	3.27	1.52	1.45
13	B1	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	D7	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	p9	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	D3	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	R6	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	OA	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	EA	202	CYC	C3D-C2D	3.27	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	G3	201	CYC	C3D-C2D	3.27	1.47	1.37
13	Y4	201	CYC	C3D-C2D	3.27	1.47	1.37
13	M5	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	Y5	201	CYC	C3D-C2D	3.27	1.47	1.37
13	T4	202	CYC	C3D-C2D	3.27	1.47	1.37
13	R1	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	L4	201	CYC	C3D-C2D	3.27	1.47	1.37
13	U6	202	CYC	C3D-C2D	3.27	1.47	1.37
13	O4	1001	CYC	C3D-C2D	3.27	1.47	1.37
13	O1	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	D4	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	q9	1001	CYC	C2C-C1C	-3.26	1.49	1.52
13	Q4	201	CYC	C3D-C2D	3.26	1.47	1.37
13	39	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	LA	201	CYC	C3D-C2D	3.26	1.47	1.37
13	S4	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	Q6	201	CYC	C3D-C2D	3.26	1.47	1.37
13	PA	203	CYC	C3D-C2D	3.26	1.47	1.37
13	N2	302	CYC	C3D-C2D	3.26	1.47	1.37
13	U4	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	P5	203	CYC	C3D-C2D	3.26	1.47	1.37
13	t9	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	O6	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	B9	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	O9	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	A3	301	CYC	C3D-C2D	3.26	1.47	1.37
13	Q2	201	CYC	C3D-C2D	3.26	1.47	1.37
13	Y6	201	CYC	C3D-C2D	3.26	1.47	1.37
13	x9	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	z9	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	e9	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	A5	303	CYC	C4A-C3A	3.26	1.52	1.45
13	R9	1001	CYC	C2C-C1C	-3.26	1.49	1.52
13	Z5	201	CYC	C4A-C3A	3.26	1.52	1.45
13	E5	202	CYC	C3D-C2D	3.26	1.47	1.37
13	S2	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	U2	202	CYC	C3D-C2D	3.26	1.47	1.37
13	Y2	201	CYC	C3D-C2D	3.26	1.47	1.37
13	U1	1001	CYC	C3D-C2D	3.26	1.47	1.37
13	E9	1001	CYC	C2C-C1C	-3.25	1.49	1.52
13	H1	1001	CYC	C3D-C2D	3.25	1.47	1.37
13	H6	1001	CYC	C3D-C2D	3.25	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	S9	1001	CYC	C3D-C2D	3.25	1.47	1.37
13	WA	1001	CYC	C3D-C2D	3.25	1.47	1.37
13	P9	1001	CYC	C2C-C1C	-3.25	1.49	1.52
13	W5	1001	CYC	C3D-C2D	3.25	1.47	1.37
13	M8	1001	CYC	O1D-CGD	3.25	1.32	1.22
13	D1	1001	CYC	C3D-C2D	3.25	1.47	1.37
13	I7	201	CYC	OB-C4B	3.25	1.29	1.23
13	H4	1001	CYC	C3D-C2D	3.25	1.47	1.37
13	L6	201	CYC	C3D-C2D	3.25	1.47	1.37
13	L2	201	CYC	C3D-C2D	3.25	1.47	1.37
13	g9	1001	CYC	C3D-C2D	3.25	1.47	1.37
13	IA	201	CYC	OB-C4B	3.25	1.29	1.23
13	19	1201	CYC	O1D-CGD	3.25	1.32	1.22
13	S6	1001	CYC	C3D-C2D	3.25	1.47	1.37
13	19	1205	CYC	C3D-C2D	3.25	1.47	1.37
13	09	1201	CYC	O1D-CGD	3.25	1.32	1.22
13	I3	201	CYC	OB-C4B	3.25	1.29	1.23
13	Q1	201	CYC	C3D-C2D	3.25	1.47	1.37
13	r9	1001	CYC	C3D-C2D	3.25	1.47	1.37
13	y9	1001	CYC	C2C-C1C	-3.24	1.49	1.52
13	s8	1001	CYC	O1D-CGD	3.24	1.32	1.22
13	AA	304	CYC	C4A-C3A	3.24	1.52	1.45
13	j9	1001	CYC	C2C-C1C	-3.24	1.49	1.52
13	W4	1001	CYC	C3D-C2D	3.24	1.47	1.37
13	MA	1001	CYC	C3D-C2D	3.24	1.47	1.37
13	I4	201	CYC	OB-C4B	3.24	1.29	1.23
13	F8	1001	CYC	O1D-CGD	3.24	1.32	1.22
13	AA	303	CYC	C4A-C3A	3.24	1.52	1.45
13	d9	1001	CYC	C2C-C1C	-3.24	1.49	1.52
13	h8	1001	CYC	O1D-CGD	3.24	1.32	1.22
13	W2	202	CYC	C3D-C2D	3.24	1.47	1.37
13	I9	1001	CYC	C2C-C1C	-3.24	1.49	1.52
13	Y1	201	CYC	C3D-C2D	3.23	1.47	1.37
13	o8	1001	CYC	O1D-CGD	3.23	1.32	1.22
13	R8	1001	CYC	O1D-CGD	3.23	1.32	1.22
13	TA	201	CYC	OB-C4B	3.23	1.29	1.23
13	s9	1001	CYC	C2C-C1C	-3.23	1.49	1.52
13	W1	1001	CYC	C3D-C2D	3.23	1.47	1.37
13	T5	201	CYC	OB-C4B	3.23	1.29	1.23
13	V5	201	CYC	OB-C4B	3.23	1.29	1.23
13	d8	1001	CYC	O1D-CGD	3.23	1.32	1.22
13	K8	1001	CYC	O1D-CGD	3.23	1.32	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	b8	1001	CYC	O1D-CGD	3.23	1.32	1.22
13	I1	201	CYC	OB-C4B	3.23	1.29	1.23
13	P8	1001	CYC	O1D-CGD	3.23	1.32	1.22
13	Z9	1001	CYC	C2C-C1C	-3.22	1.49	1.52
13	S1	1001	CYC	C3D-C2D	3.22	1.47	1.37
13	B8	1001	CYC	O1D-CGD	3.22	1.32	1.22
13	Y8	1001	CYC	O1D-CGD	3.22	1.32	1.22
13	q8	1001	CYC	O1D-CGD	3.22	1.32	1.22
13	W8	1001	CYC	O1D-CGD	3.22	1.32	1.22
13	f9	1001	CYC	C2C-C1C	-3.22	1.49	1.52
13	i9	1001	CYC	C2C-C1C	-3.22	1.49	1.52
13	f8	1001	CYC	O1D-CGD	3.22	1.32	1.22
13	W6	202	CYC	C3D-C2D	3.22	1.47	1.37
13	X5	201	CYC	OB-C4B	3.22	1.29	1.23
13	k8	1001	CYC	O1D-CGD	3.21	1.32	1.22
13	D8	1001	CYC	O1D-CGD	3.21	1.32	1.22
13	T8	1001	CYC	O1D-CGD	3.21	1.32	1.22
13	VA	201	CYC	OB-C4B	3.21	1.29	1.23
13	K9	1001	CYC	C2C-C1C	-3.21	1.49	1.52
13	I5	201	CYC	OB-C4B	3.21	1.29	1.23
13	I8	1001	CYC	O1D-CGD	3.20	1.32	1.22
13	A5	304	CYC	C4A-C3A	3.20	1.52	1.45
13	XA	201	CYC	OB-C4B	3.20	1.29	1.23
13	V5	201	CYC	C4A-C3A	3.20	1.52	1.45
13	NA	301	CYC	C4A-C3A	3.20	1.52	1.45
13	l9	1001	CYC	C2C-C1C	-3.19	1.49	1.52
13	C9	1001	CYC	C2C-C1C	-3.19	1.49	1.52
13	A9	1001	CYC	C2C-C1C	-3.19	1.49	1.52
13	V9	201	CYC	C2C-C1C	-3.19	1.49	1.52
13	c9	1001	CYC	C2C-C1C	-3.19	1.49	1.52
13	p9	1001	CYC	C2C-C1C	-3.18	1.49	1.52
13	k9	1001	CYC	C2C-C1C	-3.18	1.49	1.52
13	ZA	201	CYC	OB-C4B	3.18	1.29	1.23
13	e9	1001	CYC	C2C-C1C	-3.17	1.49	1.52
13	t9	1001	CYC	C2C-C1C	-3.17	1.49	1.52
13	F9	1001	CYC	C2C-C1C	-3.17	1.49	1.52
13	u9	1001	CYC	C2C-C1C	-3.17	1.49	1.52
13	N5	301	CYC	C4A-C3A	3.17	1.52	1.45
13	X5	201	CYC	C4A-C3A	3.17	1.52	1.45
13	VA	201	CYC	C4A-C3A	3.17	1.52	1.45
13	Z5	201	CYC	OB-C4B	3.16	1.29	1.23
13	09	1203	CYC	C2C-C1C	-3.16	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	o9	1001	CYC	C2C-C1C	-3.16	1.49	1.52
13	z9	1001	CYC	C2C-C1C	-3.16	1.49	1.52
13	A5	303	CYC	OB-C4B	3.16	1.29	1.23
13	m9	201	CYC	C2C-C1C	-3.16	1.49	1.52
13	TA	201	CYC	C4A-C3A	3.16	1.52	1.45
13	r9	1001	CYC	C2C-C1C	-3.15	1.49	1.52
13	O9	1001	CYC	C2C-C1C	-3.15	1.49	1.52
13	U9	1001	CYC	C2C-C1C	-3.15	1.49	1.52
13	19	1202	CYC	C3D-C2D	3.15	1.47	1.37
13	I2	201	CYC	C4A-C3A	3.15	1.52	1.45
13	S9	1001	CYC	C2C-C1C	-3.15	1.49	1.52
13	I1	201	CYC	C4A-C3A	3.14	1.52	1.45
13	J9	1001	CYC	C2C-C1C	-3.14	1.49	1.52
13	19	1204	CYC	C2C-C1C	-3.14	1.49	1.52
13	H9	1001	CYC	C2C-C1C	-3.14	1.49	1.52
13	I4	201	CYC	C4A-C3A	3.13	1.52	1.45
13	G9	1001	CYC	C2C-C1C	-3.13	1.49	1.52
13	I6	201	CYC	C4A-C3A	3.13	1.52	1.45
13	T5	201	CYC	C4A-C3A	3.13	1.52	1.45
13	AA	303	CYC	OB-C4B	3.13	1.29	1.23
13	XA	201	CYC	C4A-C3A	3.13	1.52	1.45
13	19	1205	CYC	C2C-C1C	-3.12	1.49	1.52
13	NA	301	CYC	OB-C4B	3.12	1.29	1.23
13	X1	201	CYC	C4A-C3A	3.12	1.52	1.45
13	39	1001	CYC	C2C-C1C	-3.12	1.49	1.52
13	B9	1001	CYC	C2C-C1C	-3.12	1.49	1.52
13	X6	201	CYC	C4A-C3A	3.11	1.52	1.45
13	I3	201	CYC	C4A-C3A	3.11	1.52	1.45
13	L9	1001	CYC	C2C-C1C	-3.11	1.49	1.52
13	X1	201	CYC	C3D-C2D	3.11	1.46	1.37
13	x9	1001	CYC	C2C-C1C	-3.11	1.49	1.52
13	D9	1001	CYC	C2C-C1C	-3.11	1.49	1.52
13	X4	201	CYC	C4A-C3A	3.10	1.52	1.45
13	AA	304	CYC	OB-C4B	3.10	1.29	1.23
13	IA	201	CYC	C4A-C3A	3.10	1.52	1.45
13	19	1202	CYC	C1C-NC	-3.10	1.33	1.37
13	19	1203	CYC	C2C-C1C	-3.10	1.49	1.52
13	I5	201	CYC	C4A-C3A	3.10	1.52	1.45
13	X2	201	CYC	C4A-C3A	3.09	1.52	1.45
13	I7	201	CYC	C4A-C3A	3.09	1.52	1.45
13	29	1001	CYC	C2C-C1C	-3.09	1.49	1.52
13	X5	201	CYC	C3D-C2D	3.09	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	v9	1001	CYC	C2C-C1C	-3.09	1.49	1.52
13	N5	301	CYC	OB-C4B	3.08	1.29	1.23
13	X2	201	CYC	C3D-C2D	3.08	1.46	1.37
13	AA	303	CYC	C3D-C2D	3.08	1.46	1.37
13	Q9	201	CYC	C3D-C2D	3.08	1.46	1.37
13	09	1202	CYC	C3D-C2D	3.08	1.46	1.37
13	A5	304	CYC	OB-C4B	3.08	1.29	1.23
13	X4	201	CYC	C3D-C2D	3.08	1.46	1.37
13	I3	201	CYC	C3D-C2D	3.08	1.46	1.37
13	19	1202	CYC	CHB-C4A	3.07	1.47	1.40
13	I7	201	CYC	C3D-C2D	3.07	1.46	1.37
13	N5	301	CYC	C3D-C2D	3.07	1.46	1.37
13	NA	301	CYC	C3D-C2D	3.07	1.46	1.37
13	Z5	201	CYC	C3D-C2D	3.07	1.46	1.37
13	L3	201	CYC	O1A-CGA	3.07	1.32	1.22
13	A5	303	CYC	C3D-C2D	3.07	1.46	1.37
13	I4	201	CYC	C3D-C2D	3.06	1.46	1.37
13	A7	301	CYC	O1A-CGA	3.06	1.32	1.22
13	X6	201	CYC	C3D-C2D	3.06	1.46	1.37
13	XA	201	CYC	C3D-C2D	3.06	1.46	1.37
13	C2	201	CYC	O1A-CGA	3.05	1.32	1.22
13	TA	201	CYC	C3D-C2D	3.05	1.46	1.37
13	I5	201	CYC	C3D-C2D	3.05	1.46	1.37
13	L7	201	CYC	O1A-CGA	3.05	1.32	1.22
13	I1	201	CYC	C3D-C2D	3.04	1.46	1.37
13	I2	201	CYC	C3D-C2D	3.04	1.46	1.37
13	A3	301	CYC	O1A-CGA	3.04	1.32	1.22
13	ZA	201	CYC	C3D-C2D	3.04	1.46	1.37
13	T5	201	CYC	C3D-C2D	3.04	1.46	1.37
13	C1	301	CYC	O1A-CGA	3.04	1.32	1.22
13	Q6	201	CYC	O1A-CGA	3.04	1.32	1.22
13	C6	201	CYC	O1A-CGA	3.03	1.32	1.22
13	39	1001	CYC	OB-C4B	3.03	1.29	1.23
13	V5	201	CYC	C3D-C2D	3.03	1.46	1.37
13	F3	1001	CYC	O1A-CGA	3.03	1.32	1.22
13	AA	304	CYC	C3D-C2D	3.03	1.46	1.37
13	D7	1001	CYC	O1A-CGA	3.03	1.32	1.22
13	Q2	201	CYC	O1A-CGA	3.02	1.32	1.22
13	I6	201	CYC	C3D-C2D	3.02	1.46	1.37
13	v9	1001	CYC	OB-C4B	3.02	1.29	1.23
13	F7	1001	CYC	O1A-CGA	3.02	1.32	1.22
13	z9	1001	CYC	OB-C4B	3.02	1.29	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	C4	301	CYC	O1A-CGA	3.02	1.32	1.22
13	VA	201	CYC	C3D-C2D	3.02	1.46	1.37
13	IA	201	CYC	C3D-C2D	3.02	1.46	1.37
13	S9	1001	CYC	OB-C4B	3.02	1.29	1.23
13	x9	1001	CYC	OB-C4B	3.02	1.29	1.23
13	F2	1001	CYC	O1A-CGA	3.02	1.32	1.22
13	J9	1001	CYC	OB-C4B	3.01	1.29	1.23
13	L2	201	CYC	O1A-CGA	3.01	1.32	1.22
13	F9	1001	CYC	OB-C4B	3.01	1.29	1.23
13	A5	304	CYC	C3D-C2D	3.01	1.46	1.37
13	V1	202	CYC	O1A-CGA	3.01	1.32	1.22
13	F4	1001	CYC	O1A-CGA	3.01	1.32	1.22
13	D3	1001	CYC	O1A-CGA	3.01	1.32	1.22
13	B7	1001	CYC	O1A-CGA	3.01	1.32	1.22
13	V6	202	CYC	O1A-CGA	3.01	1.32	1.22
13	Q1	201	CYC	O1A-CGA	3.01	1.32	1.22
13	J1	1001	CYC	O1A-CGA	3.01	1.32	1.22
13	Q4	201	CYC	O1A-CGA	3.01	1.32	1.22
13	U2	202	CYC	O1A-CGA	3.01	1.32	1.22
13	R4	1001	CYC	O1A-CGA	3.00	1.32	1.22
13	09	1203	CYC	OB-C4B	3.00	1.29	1.23
13	H9	1001	CYC	OB-C4B	3.00	1.29	1.23
13	F6	1001	CYC	O1A-CGA	3.00	1.32	1.22
13	J6	1001	CYC	O1A-CGA	3.00	1.32	1.22
13	J4	1001	CYC	O1A-CGA	3.00	1.32	1.22
13	YA	201	CYC	O1A-CGA	3.00	1.32	1.22
13	SA	1001	CYC	O1A-CGA	3.00	1.32	1.22
13	D2	1001	CYC	O1A-CGA	3.00	1.32	1.22
13	B3	1001	CYC	O1A-CGA	3.00	1.32	1.22
13	NA	301	CYC	O2A-CGA	-3.00	1.20	1.30
13	O9	1001	CYC	OB-C4B	3.00	1.29	1.23
13	O2	1001	CYC	O1A-CGA	3.00	1.32	1.22
13	J5	1001	CYC	O1A-CGA	3.00	1.32	1.22
13	D6	1001	CYC	O1A-CGA	3.00	1.32	1.22
13	B1	1001	CYC	O1A-CGA	3.00	1.32	1.22
13	L6	201	CYC	O1A-CGA	3.00	1.32	1.22
13	L9	1001	CYC	OB-C4B	2.99	1.29	1.23
13	E5	202	CYC	O1A-CGA	2.99	1.32	1.22
13	OA	1001	CYC	O1A-CGA	2.99	1.32	1.22
13	B6	1001	CYC	O1A-CGA	2.99	1.32	1.22
13	L4	201	CYC	O1A-CGA	2.99	1.32	1.22
13	O5	1001	CYC	O1A-CGA	2.99	1.32	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	W2	202	CYC	O1A-CGA	2.99	1.32	1.22
13	D1	1001	CYC	O1A-CGA	2.99	1.32	1.22
13	B4	1001	CYC	O1A-CGA	2.99	1.32	1.22
13	Y5	201	CYC	O1A-CGA	2.99	1.32	1.22
13	U6	202	CYC	O1A-CGA	2.99	1.32	1.22
13	V4	202	CYC	O1A-CGA	2.99	1.32	1.22
13	EA	202	CYC	O1A-CGA	2.99	1.32	1.22
13	B9	1001	CYC	OB-C4B	2.99	1.29	1.23
13	W4	1001	CYC	O1A-CGA	2.99	1.32	1.22
13	B5	1001	CYC	O1A-CGA	2.99	1.32	1.22
13	r9	1001	CYC	OB-C4B	2.99	1.29	1.23
13	R2	1001	CYC	O1A-CGA	2.99	1.32	1.22
13	V1	202	CYC	C2C-C1C	-2.99	1.49	1.52
13	F1	1001	CYC	O1A-CGA	2.99	1.32	1.22
13	U1	1001	CYC	O1A-CGA	2.99	1.32	1.22
13	B2	1001	CYC	O1A-CGA	2.99	1.32	1.22
13	M5	1001	CYC	O1A-CGA	2.98	1.32	1.22
13	V5	201	CYC	O2A-CGA	-2.98	1.20	1.30
13	L5	201	CYC	O1A-CGA	2.98	1.32	1.22
13	W1	1001	CYC	O1A-CGA	2.98	1.32	1.22
13	V2	202	CYC	O1A-CGA	2.98	1.32	1.22
13	19	1205	CYC	OB-C4B	2.98	1.29	1.23
13	N5	301	CYC	O2A-CGA	-2.98	1.20	1.30
13	GA	1001	CYC	O1A-CGA	2.98	1.32	1.22
13	JA	1001	CYC	O1A-CGA	2.98	1.32	1.22
13	LA	201	CYC	O1A-CGA	2.98	1.32	1.22
13	j9	1001	CYC	OB-C4B	2.98	1.29	1.23
13	Y2	201	CYC	O1A-CGA	2.98	1.32	1.22
13	H3	1001	CYC	O1A-CGA	2.98	1.32	1.22
13	D9	1001	CYC	OB-C4B	2.98	1.29	1.23
13	c9	1001	CYC	OB-C4B	2.98	1.29	1.23
13	U5	1001	CYC	O1A-CGA	2.98	1.32	1.22
13	O1	1001	CYC	O1A-CGA	2.98	1.32	1.22
13	19	1203	CYC	OB-C4B	2.98	1.29	1.23
13	e9	1001	CYC	OB-C4B	2.98	1.29	1.23
13	O6	1001	CYC	O1A-CGA	2.98	1.32	1.22
13	J7	1001	CYC	O1A-CGA	2.98	1.32	1.22
13	R6	1001	CYC	O1A-CGA	2.98	1.32	1.22
13	WA	1001	CYC	O1A-CGA	2.98	1.32	1.22
13	TA	201	CYC	O2A-CGA	-2.98	1.20	1.30
13	W6	202	CYC	O1A-CGA	2.97	1.32	1.22
13	R1	1001	CYC	O1A-CGA	2.97	1.32	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	D4	1001	CYC	O1A-CGA	2.97	1.32	1.22
13	W5	1001	CYC	O1A-CGA	2.97	1.32	1.22
13	S5	1001	CYC	O1A-CGA	2.97	1.32	1.22
13	p9	1001	CYC	OB-C4B	2.97	1.29	1.23
13	J2	1001	CYC	O1A-CGA	2.97	1.32	1.22
13	PA	203	CYC	O1A-CGA	2.97	1.32	1.22
13	G6	202	CYC	O1A-CGA	2.97	1.32	1.22
13	AA	304	CYC	O2A-CGA	-2.97	1.20	1.30
13	L1	201	CYC	O1A-CGA	2.97	1.32	1.22
13	T5	201	CYC	O2A-CGA	-2.97	1.20	1.30
13	S2	1001	CYC	O1A-CGA	2.97	1.32	1.22
13	O4	1001	CYC	O1A-CGA	2.97	1.32	1.22
13	P5	203	CYC	O1A-CGA	2.96	1.32	1.22
13	G4	202	CYC	O1A-CGA	2.96	1.32	1.22
13	T1	202	CYC	O1A-CGA	2.96	1.32	1.22
13	A5	304	CYC	O2A-CGA	-2.96	1.20	1.30
13	U9	1001	CYC	OB-C4B	2.96	1.29	1.23
13	UA	1001	CYC	O1A-CGA	2.96	1.31	1.22
13	U4	1001	CYC	O1A-CGA	2.96	1.31	1.22
13	Y6	201	CYC	O1A-CGA	2.96	1.31	1.22
13	DA	1001	CYC	O1A-CGA	2.96	1.31	1.22
13	MA	1001	CYC	O1A-CGA	2.95	1.31	1.22
13	Z6	202	CYC	O1A-CGA	2.95	1.31	1.22
13	29	1001	CYC	OB-C4B	2.95	1.29	1.23
13	G1	202	CYC	O1A-CGA	2.95	1.31	1.22
13	G2	202	CYC	O1A-CGA	2.95	1.31	1.22
13	t9	1001	CYC	OB-C4B	2.95	1.29	1.23
13	J3	1001	CYC	O1A-CGA	2.95	1.31	1.22
13	Y4	201	CYC	O1A-CGA	2.95	1.31	1.22
13	19	1204	CYC	OB-C4B	2.95	1.29	1.23
13	Y1	201	CYC	O1A-CGA	2.95	1.31	1.22
13	VA	201	CYC	O2A-CGA	-2.95	1.20	1.30
13	T4	202	CYC	O1A-CGA	2.95	1.31	1.22
13	Z1	202	CYC	O1A-CGA	2.95	1.31	1.22
13	H7	1001	CYC	O1A-CGA	2.94	1.31	1.22
13	Z2	202	CYC	O1A-CGA	2.94	1.31	1.22
13	D5	1001	CYC	O1A-CGA	2.94	1.31	1.22
13	Z4	202	CYC	O1A-CGA	2.94	1.31	1.22
13	l9	1001	CYC	OB-C4B	2.94	1.29	1.23
13	S6	1001	CYC	O1A-CGA	2.94	1.31	1.22
13	H1	1001	CYC	O1A-CGA	2.94	1.31	1.22
13	H6	1001	CYC	O1A-CGA	2.94	1.31	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	I2	201	CYC	O2A-CGA	-2.94	1.20	1.30
13	H4	1001	CYC	O1A-CGA	2.94	1.31	1.22
13	G7	201	CYC	O1A-CGA	2.94	1.31	1.22
13	S1	1001	CYC	O1A-CGA	2.94	1.31	1.22
13	H2	1001	CYC	O1A-CGA	2.94	1.31	1.22
13	X6	201	CYC	O2A-CGA	-2.93	1.20	1.30
13	G7	201	CYC	C2C-C1C	-2.93	1.49	1.52
13	I3	201	CYC	O2A-CGA	-2.93	1.20	1.30
13	I5	201	CYC	O2A-CGA	-2.93	1.20	1.30
13	S4	1001	CYC	O1A-CGA	2.93	1.31	1.22
13	Z5	201	CYC	O2A-CGA	-2.93	1.20	1.30
13	IA	201	CYC	O2A-CGA	-2.93	1.20	1.30
13	G6	202	CYC	C2C-C1C	-2.92	1.49	1.52
13	I7	201	CYC	O2A-CGA	-2.92	1.20	1.30
13	I6	201	CYC	O2A-CGA	-2.92	1.20	1.30
13	A5	303	CYC	O2A-CGA	-2.92	1.20	1.30
13	N6	302	CYC	C2C-C1C	-2.92	1.49	1.52
13	I4	201	CYC	O2A-CGA	-2.92	1.20	1.30
13	X5	201	CYC	O2A-CGA	-2.92	1.20	1.30
13	N6	302	CYC	O1A-CGA	2.92	1.31	1.22
13	ZA	201	CYC	O2A-CGA	-2.91	1.20	1.30
13	N2	302	CYC	O1A-CGA	2.91	1.31	1.22
13	G3	201	CYC	O1A-CGA	2.91	1.31	1.22
13	m9	201	CYC	C3D-C2D	2.91	1.46	1.37
13	XA	201	CYC	O2A-CGA	-2.91	1.21	1.30
13	I1	201	CYC	O2A-CGA	-2.90	1.21	1.30
13	X2	201	CYC	O2A-CGA	-2.90	1.21	1.30
13	R6	1001	CYC	C2C-C1C	-2.89	1.49	1.52
13	AA	303	CYC	O2A-CGA	-2.89	1.21	1.30
13	F2	1001	CYC	C2C-C1C	-2.89	1.49	1.52
13	V4	202	CYC	C2C-C1C	-2.89	1.49	1.52
13	R4	1001	CYC	C2C-C1C	-2.88	1.49	1.52
13	V9	201	CYC	C3D-C2D	2.88	1.46	1.37
13	A5	303	CYC	C1B-C2B	2.87	1.50	1.45
13	X1	201	CYC	O2A-CGA	-2.87	1.21	1.30
13	I2	201	CYC	C1B-C2B	2.87	1.50	1.45
13	X4	201	CYC	O2A-CGA	-2.86	1.21	1.30
13	NA	301	CYC	C1B-C2B	2.86	1.50	1.45
13	N5	301	CYC	C1B-C2B	2.85	1.50	1.45
13	I5	201	CYC	C1B-C2B	2.85	1.50	1.45
13	X6	201	CYC	C1B-C2B	2.85	1.50	1.45
13	I7	201	CYC	C1B-C2B	2.85	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	R1	1001	CYC	C2C-C1C	-2.84	1.49	1.52
13	G3	201	CYC	C2C-C1C	-2.84	1.49	1.52
13	F6	1001	CYC	C2C-C1C	-2.84	1.49	1.52
13	I3	201	CYC	C1B-C2B	2.84	1.50	1.45
13	I6	201	CYC	C1B-C2B	2.84	1.50	1.45
13	I4	201	CYC	C1B-C2B	2.84	1.50	1.45
13	I1	201	CYC	C1B-C2B	2.83	1.50	1.45
13	N2	302	CYC	C2C-C1C	-2.83	1.49	1.52
13	X2	201	CYC	C1B-C2B	2.83	1.50	1.45
13	E3	201	CYC	C1B-C2B	2.83	1.50	1.45
13	F1	1001	CYC	C2C-C1C	-2.82	1.49	1.52
13	X4	201	CYC	C1B-C2B	2.82	1.50	1.45
13	IA	201	CYC	C1B-C2B	2.82	1.50	1.45
13	S6	1001	CYC	C2C-C1C	-2.82	1.49	1.52
13	E7	201	CYC	C1B-C2B	2.82	1.50	1.45
13	AA	303	CYC	C1B-C2B	2.82	1.50	1.45
13	19	1202	CYC	C1B-NB	-2.82	1.33	1.37
13	Z1	202	CYC	C2C-C1C	-2.81	1.49	1.52
13	X1	201	CYC	C1B-C2B	2.81	1.50	1.45
13	TA	201	CYC	C1B-C2B	2.81	1.50	1.45
13	Z2	202	CYC	C2C-C1C	-2.81	1.49	1.52
13	G2	202	CYC	C2C-C1C	-2.81	1.49	1.52
13	T5	201	CYC	C1B-C2B	2.81	1.50	1.45
13	Z5	201	CYC	C1B-C2B	2.81	1.50	1.45
13	Z6	202	CYC	C2C-C1C	-2.80	1.49	1.52
13	O6	1001	CYC	C2C-C1C	-2.80	1.49	1.52
13	F3	1001	CYC	C2C-C1C	-2.79	1.49	1.52
13	Y1	201	CYC	C2C-C1C	-2.79	1.49	1.52
13	XA	201	CYC	C1B-C2B	2.78	1.50	1.45
13	F4	1001	CYC	C2C-C1C	-2.78	1.49	1.52
13	G1	202	CYC	C2C-C1C	-2.77	1.49	1.52
13	R2	1001	CYC	C2C-C1C	-2.77	1.49	1.52
13	Z4	202	CYC	C2C-C1C	-2.77	1.49	1.52
13	B3	1001	CYC	C2C-C1C	-2.77	1.49	1.52
13	A5	301	CYC	C1B-C2B	2.77	1.50	1.45
13	G4	202	CYC	C2C-C1C	-2.77	1.49	1.52
13	S4	1001	CYC	C2C-C1C	-2.76	1.49	1.52
13	U1	1001	CYC	C2C-C1C	-2.76	1.49	1.52
13	E6	201	CYC	C1B-C2B	2.75	1.50	1.45
13	AA	301	CYC	C1B-C2B	2.75	1.50	1.45
13	S1	1001	CYC	C2C-C1C	-2.75	1.49	1.52
13	A5	302	CYC	C1B-C2B	2.75	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	ZA	201	CYC	C1B-C2B	2.75	1.50	1.45
13	V6	202	CYC	C2C-C1C	-2.75	1.49	1.52
13	F7	1001	CYC	C2C-C1C	-2.75	1.49	1.52
13	T4	202	CYC	C2C-C1C	-2.74	1.49	1.52
13	E4	201	CYC	C1B-C2B	2.74	1.50	1.45
13	D4	1001	CYC	C2C-C1C	-2.74	1.49	1.52
13	X5	201	CYC	C1B-C2B	2.74	1.50	1.45
13	VA	201	CYC	C1B-C2B	2.73	1.50	1.45
13	U4	1001	CYC	C2C-C1C	-2.73	1.49	1.52
13	E2	201	CYC	C1B-C2B	2.73	1.50	1.45
13	O4	1001	CYC	C2C-C1C	-2.73	1.49	1.52
13	AA	302	CYC	C1B-C2B	2.72	1.50	1.45
13	F9	1001	CYC	C4C-NC	-2.72	1.31	1.37
13	S9	1001	CYC	C4C-NC	-2.72	1.31	1.37
13	O9	1001	CYC	C4C-NC	-2.72	1.31	1.37
13	19	1204	CYC	C4C-NC	-2.72	1.31	1.37
13	j9	1001	CYC	C4C-NC	-2.72	1.31	1.37
13	S2	1001	CYC	C2C-C1C	-2.72	1.49	1.52
13	19	1205	CYC	C4C-NC	-2.71	1.31	1.37
13	r9	1001	CYC	C4C-NC	-2.71	1.31	1.37
13	39	1001	CYC	C4C-NC	-2.71	1.31	1.37
13	B7	1001	CYC	C2C-C1C	-2.71	1.49	1.52
13	09	1203	CYC	C4C-NC	-2.71	1.31	1.37
13	B6	1001	CYC	C2C-C1C	-2.70	1.49	1.52
13	U9	1001	CYC	C4C-NC	-2.70	1.31	1.37
13	L9	1001	CYC	C4C-NC	-2.70	1.31	1.37
13	D1	1001	CYC	C2C-C1C	-2.70	1.49	1.52
13	B9	1001	CYC	C4C-NC	-2.70	1.31	1.37
13	l9	1001	CYC	C4C-NC	-2.70	1.31	1.37
13	E1	201	CYC	C1B-C2B	2.70	1.50	1.45
13	p9	1001	CYC	C4C-NC	-2.70	1.31	1.37
13	AA	304	CYC	C1B-C2B	2.70	1.50	1.45
13	V2	202	CYC	C2C-C1C	-2.70	1.49	1.52
13	V5	201	CYC	C1B-C2B	2.70	1.50	1.45
13	H9	1001	CYC	C4C-NC	-2.70	1.31	1.37
13	D9	1001	CYC	C4C-NC	-2.69	1.31	1.37
13	O2	1001	CYC	C2C-C1C	-2.69	1.49	1.52
13	e9	1001	CYC	C4C-NC	-2.69	1.31	1.37
13	EA	202	CYC	C2C-C1C	-2.69	1.49	1.52
13	29	1001	CYC	C4C-NC	-2.69	1.31	1.37
13	c9	1001	CYC	C4C-NC	-2.69	1.31	1.37
13	z9	1001	CYC	C4C-NC	-2.69	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	D7	1001	CYC	C2C-C1C	-2.69	1.49	1.52
13	U5	1001	CYC	C2C-C1C	-2.69	1.49	1.52
13	U2	202	CYC	C2C-C1C	-2.68	1.49	1.52
13	v9	1001	CYC	C4C-NC	-2.68	1.31	1.37
13	A5	304	CYC	C1B-C2B	2.68	1.49	1.45
13	J9	1001	CYC	C4C-NC	-2.68	1.31	1.37
13	x9	1001	CYC	C4C-NC	-2.68	1.31	1.37
13	B3	1001	CYC	OB-C4B	2.68	1.28	1.23
13	E5	202	CYC	C2C-C1C	-2.68	1.49	1.52
13	B5	1001	CYC	C2C-C1C	-2.68	1.49	1.52
13	B7	1001	CYC	OB-C4B	2.67	1.28	1.23
13	B1	1001	CYC	C2C-C1C	-2.67	1.49	1.52
13	D5	1001	CYC	C2C-C1C	-2.67	1.49	1.52
13	DA	1001	CYC	C2C-C1C	-2.67	1.49	1.52
13	O1	1001	CYC	C2C-C1C	-2.67	1.49	1.52
13	19	1203	CYC	C4C-NC	-2.66	1.31	1.37
13	t9	1001	CYC	C4C-NC	-2.66	1.31	1.37
13	Q6	201	CYC	C2C-C1C	-2.66	1.49	1.52
13	Q9	201	CYC	C4C-NC	-2.66	1.31	1.37
13	J3	1001	CYC	C2C-C1C	-2.65	1.49	1.52
13	D3	1001	CYC	C2C-C1C	-2.64	1.49	1.52
13	S5	1001	CYC	C2C-C1C	-2.64	1.49	1.52
13	M5	1001	CYC	C2C-C1C	-2.64	1.49	1.52
13	P8	1001	CYC	C1D-CHD	2.64	1.51	1.41
13	o8	1001	CYC	C1D-CHD	2.64	1.51	1.41
13	B6	1001	CYC	OB-C4B	2.63	1.28	1.23
13	19	1201	CYC	C1D-CHD	2.63	1.51	1.41
13	q8	1001	CYC	C1D-CHD	2.63	1.51	1.41
13	T1	202	CYC	C2C-C1C	-2.63	1.49	1.52
13	YA	201	CYC	C2C-C1C	-2.63	1.49	1.52
13	M8	1001	CYC	C1D-CHD	2.63	1.51	1.41
13	Y4	201	CYC	C2C-C1C	-2.63	1.49	1.52
13	GA	1001	CYC	C2C-C1C	-2.63	1.49	1.52
13	T8	1001	CYC	C1D-CHD	2.63	1.51	1.41
13	R8	1001	CYC	C1D-CHD	2.63	1.51	1.41
13	b8	1001	CYC	C1D-CHD	2.63	1.51	1.41
13	F8	1001	CYC	C1D-CHD	2.63	1.51	1.41
13	k8	1001	CYC	C1D-CHD	2.63	1.51	1.41
13	PA	203	CYC	C2C-C1C	-2.63	1.49	1.52
13	Y8	1001	CYC	C1D-CHD	2.63	1.51	1.41
13	B2	1001	CYC	OB-C4B	2.62	1.28	1.23
13	Q2	201	CYC	C2C-C1C	-2.62	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B8	1001	CYC	C1D-CHD	2.62	1.51	1.41
13	s8	1001	CYC	C1D-CHD	2.62	1.51	1.41
13	C1	301	CYC	C2C-C1C	-2.62	1.49	1.52
13	J7	1001	CYC	C2C-C1C	-2.62	1.49	1.52
13	K8	1001	CYC	C1D-CHD	2.61	1.51	1.41
13	I8	1001	CYC	C1D-CHD	2.61	1.51	1.41
13	W5	1001	CYC	C2C-C1C	-2.61	1.49	1.52
13	19	1202	CYC	C4C-NC	-2.61	1.31	1.37
13	D8	1001	CYC	C1D-CHD	2.61	1.51	1.41
13	f8	1001	CYC	C1D-CHD	2.61	1.51	1.41
13	U6	202	CYC	C2C-C1C	-2.61	1.49	1.52
13	d8	1001	CYC	C1D-CHD	2.61	1.51	1.41
13	09	1201	CYC	C1D-CHD	2.61	1.51	1.41
13	h8	1001	CYC	C1D-CHD	2.61	1.51	1.41
13	G3	201	CYC	OB-C4B	2.61	1.28	1.23
13	MA	1001	CYC	C2C-C1C	-2.61	1.49	1.52
13	W8	1001	CYC	C1D-CHD	2.61	1.51	1.41
13	UA	1001	CYC	C2C-C1C	-2.60	1.49	1.52
13	Z2	202	CYC	OB-C4B	2.60	1.28	1.23
13	m9	201	CYC	C4C-NC	-2.60	1.31	1.37
13	O5	1001	CYC	C2C-C1C	-2.60	1.49	1.52
13	J2	1001	CYC	C2C-C1C	-2.60	1.49	1.52
13	H1	1001	CYC	C2C-C1C	-2.60	1.49	1.52
13	b9	1001	CYC	C1B-C2B	2.60	1.49	1.45
13	H4	1001	CYC	C2C-C1C	-2.60	1.49	1.52
13	C6	201	CYC	C2C-C1C	-2.59	1.49	1.52
13	Q1	201	CYC	C2C-C1C	-2.59	1.49	1.52
13	Z6	202	CYC	OB-C4B	2.59	1.28	1.23
13	Y5	201	CYC	C2C-C1C	-2.59	1.49	1.52
13	R2	1001	CYC	OB-C4B	2.59	1.28	1.23
13	G7	201	CYC	OB-C4B	2.59	1.28	1.23
13	H2	1001	CYC	C2C-C1C	-2.59	1.49	1.52
13	B4	1001	CYC	OB-C4B	2.58	1.28	1.23
13	JA	1001	CYC	C2C-C1C	-2.58	1.49	1.52
13	B2	1001	CYC	C2C-C1C	-2.58	1.49	1.52
13	B4	1001	CYC	C2C-C1C	-2.58	1.49	1.52
13	SA	1001	CYC	C2C-C1C	-2.58	1.49	1.52
13	G6	202	CYC	OB-C4B	2.58	1.28	1.23
13	P5	203	CYC	C2C-C1C	-2.58	1.49	1.52
13	Q4	201	CYC	C2C-C1C	-2.58	1.49	1.52
13	Q6	201	CYC	OB-C4B	2.58	1.28	1.23
13	R6	1001	CYC	OB-C4B	2.58	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	R2	1001	CYC	C1B-NB	-2.57	1.33	1.37
13	G2	202	CYC	OB-C4B	2.57	1.28	1.23
13	D2	1001	CYC	C2C-C1C	-2.57	1.49	1.52
13	V6	202	CYC	OB-C4B	2.57	1.28	1.23
13	OA	1001	CYC	C2C-C1C	-2.57	1.49	1.52
13	P5	203	CYC	OB-C4B	2.57	1.28	1.23
13	l8	1001	CYC	C1B-C2B	2.57	1.49	1.45
13	q9	1001	CYC	C1B-C2B	2.57	1.49	1.45
13	Q1	201	CYC	OB-C4B	2.56	1.28	1.23
13	D6	1001	CYC	C2C-C1C	-2.56	1.49	1.52
13	C4	301	CYC	C2C-C1C	-2.56	1.49	1.52
13	I9	1001	CYC	C1B-C2B	2.56	1.49	1.45
13	w9	1001	CYC	C1B-C2B	2.56	1.49	1.45
13	V9	201	CYC	C4C-NC	-2.56	1.32	1.37
13	W4	1001	CYC	OB-C4B	2.56	1.28	1.23
13	P9	1001	CYC	C1B-C2B	2.56	1.49	1.45
13	t8	1001	CYC	C1B-C2B	2.56	1.49	1.45
13	J5	1001	CYC	C2C-C1C	-2.56	1.49	1.52
13	L5	201	CYC	C2C-C1C	-2.56	1.49	1.52
13	WA	1001	CYC	C2C-C1C	-2.56	1.49	1.52
13	T1	202	CYC	OB-C4B	2.55	1.28	1.23
13	Q1	201	CYC	C4C-NC	-2.55	1.32	1.37
13	o9	1001	CYC	C1B-C2B	2.55	1.49	1.45
13	H6	1001	CYC	C2C-C1C	-2.55	1.49	1.52
13	S8	1001	CYC	C1B-C2B	2.55	1.49	1.45
13	j8	1001	CYC	C1B-C2B	2.55	1.49	1.45
13	L3	201	CYC	OB-C4B	2.55	1.28	1.23
13	E9	1001	CYC	C1B-C2B	2.55	1.49	1.45
13	09	1202	CYC	OB-C4B	2.55	1.28	1.23
13	A8	1001	CYC	C1B-C2B	2.55	1.49	1.45
13	Z1	202	CYC	C1B-NB	-2.55	1.33	1.37
13	G9	1001	CYC	C1B-C2B	2.55	1.49	1.45
13	F7	1001	CYC	OB-C4B	2.55	1.28	1.23
13	r8	1001	CYC	C1B-C2B	2.55	1.49	1.45
13	Q8	1001	CYC	C1B-C2B	2.54	1.49	1.45
13	W1	1001	CYC	OB-C4B	2.54	1.28	1.23
13	L8	1001	CYC	C1B-C2B	2.54	1.49	1.45
13	J2	1001	CYC	OB-C4B	2.54	1.28	1.23
13	d9	1001	CYC	C1B-C2B	2.54	1.49	1.45
13	N9	1001	CYC	C1B-C2B	2.54	1.49	1.45
13	u9	1001	CYC	C1B-C2B	2.54	1.49	1.45
13	R4	1001	CYC	OB-C4B	2.54	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	J8	1001	CYC	C1B-C2B	2.54	1.49	1.45
13	Z9	1001	CYC	C1B-C2B	2.54	1.49	1.45
13	K9	1001	CYC	C1B-C2B	2.54	1.49	1.45
13	L4	201	CYC	C2C-C1C	-2.54	1.49	1.52
13	F2	1001	CYC	OB-C4B	2.54	1.28	1.23
13	T9	1001	CYC	C1B-C2B	2.54	1.49	1.45
13	LA	201	CYC	C2C-C1C	-2.54	1.49	1.52
13	C8	1001	CYC	C1B-C2B	2.54	1.49	1.45
13	i9	1001	CYC	C1B-C2B	2.54	1.49	1.45
13	B1	1001	CYC	OB-C4B	2.54	1.28	1.23
13	C2	201	CYC	C2C-C1C	-2.54	1.49	1.52
13	G4	202	CYC	OB-C4B	2.53	1.28	1.23
13	W6	202	CYC	OB-C4B	2.53	1.28	1.23
13	E8	1001	CYC	C1B-C2B	2.53	1.49	1.45
13	R9	1001	CYC	C1B-C2B	2.53	1.49	1.45
13	F6	1001	CYC	OB-C4B	2.53	1.28	1.23
13	J7	1001	CYC	OB-C4B	2.53	1.28	1.23
13	G1	202	CYC	OB-C4B	2.53	1.28	1.23
13	f9	1001	CYC	C1B-C2B	2.53	1.49	1.45
13	J6	1001	CYC	C2C-C1C	-2.53	1.49	1.52
13	Q2	201	CYC	OB-C4B	2.53	1.28	1.23
13	F3	1001	CYC	OB-C4B	2.53	1.28	1.23
13	W4	1001	CYC	C2C-C1C	-2.53	1.49	1.52
13	L6	201	CYC	C2C-C1C	-2.53	1.49	1.52
13	Q9	201	CYC	OB-C4B	2.53	1.28	1.23
13	y9	1001	CYC	C1B-C2B	2.53	1.49	1.45
13	c8	1001	CYC	C1B-C2B	2.53	1.49	1.45
13	X9	1001	CYC	C1B-C2B	2.53	1.49	1.45
13	s9	1001	CYC	C1B-C2B	2.53	1.49	1.45
13	W2	202	CYC	OB-C4B	2.53	1.28	1.23
13	AA	301	CYC	C1D-CHD	2.53	1.50	1.41
13	Q2	201	CYC	C4C-NC	-2.53	1.32	1.37
13	O8	1001	CYC	C1B-C2B	2.53	1.49	1.45
13	Q4	201	CYC	OB-C4B	2.53	1.28	1.23
13	N6	302	CYC	OB-C4B	2.53	1.28	1.23
13	L7	201	CYC	OB-C4B	2.53	1.28	1.23
13	V2	202	CYC	OB-C4B	2.52	1.28	1.23
13	V8	1001	CYC	C1B-C2B	2.52	1.49	1.45
13	A9	1001	CYC	C1B-C2B	2.52	1.49	1.45
13	R1	1001	CYC	OB-C4B	2.52	1.28	1.23
13	V4	202	CYC	OB-C4B	2.52	1.28	1.23
13	V1	202	CYC	OB-C4B	2.52	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	T4	202	CYC	OB-C4B	2.52	1.28	1.23
13	Y6	201	CYC	C2C-C1C	-2.52	1.49	1.52
13	N2	302	CYC	OB-C4B	2.52	1.28	1.23
13	C6	201	CYC	OB-C4B	2.52	1.28	1.23
13	J3	1001	CYC	OB-C4B	2.52	1.28	1.23
13	C4	301	CYC	C1B-NB	-2.52	1.33	1.37
13	L6	201	CYC	OB-C4B	2.52	1.28	1.23
13	A5	302	CYC	C1D-CHD	2.52	1.50	1.41
13	C4	301	CYC	OB-C4B	2.52	1.28	1.23
13	F4	1001	CYC	OB-C4B	2.52	1.28	1.23
13	Q6	201	CYC	C4C-NC	-2.52	1.32	1.37
13	Z8	1001	CYC	C1B-C2B	2.52	1.49	1.45
13	O5	1001	CYC	OB-C4B	2.52	1.28	1.23
13	MA	1001	CYC	OB-C4B	2.52	1.28	1.23
13	R6	1001	CYC	C1B-NB	-2.52	1.33	1.37
13	X8	1001	CYC	C1B-C2B	2.52	1.49	1.45
13	k9	1001	CYC	C1B-C2B	2.52	1.49	1.45
13	E5	202	CYC	OB-C4B	2.52	1.28	1.23
13	L2	201	CYC	C2C-C1C	-2.52	1.49	1.52
13	L2	201	CYC	OB-C4B	2.52	1.28	1.23
13	Y5	201	CYC	OB-C4B	2.52	1.28	1.23
13	AA	302	CYC	C1D-CHD	2.52	1.50	1.41
13	g8	1001	CYC	C1B-C2B	2.52	1.49	1.45
13	H8	1001	CYC	C1B-C2B	2.51	1.49	1.45
13	DA	1001	CYC	OB-C4B	2.51	1.28	1.23
13	A7	301	CYC	C4C-NC	-2.51	1.32	1.37
13	C9	1001	CYC	C1B-C2B	2.51	1.49	1.45
13	PA	203	CYC	OB-C4B	2.51	1.28	1.23
13	A5	301	CYC	C1D-CHD	2.51	1.50	1.41
13	M5	1001	CYC	OB-C4B	2.51	1.28	1.23
13	JA	1001	CYC	OB-C4B	2.51	1.28	1.23
13	YA	201	CYC	OB-C4B	2.51	1.28	1.23
13	A7	301	CYC	OB-C4B	2.51	1.28	1.23
13	OA	1001	CYC	OB-C4B	2.51	1.28	1.23
13	F3	1001	CYC	C4C-NC	-2.51	1.32	1.37
13	W6	202	CYC	C2C-C1C	-2.51	1.49	1.52
13	EA	202	CYC	OB-C4B	2.51	1.28	1.23
13	D7	1001	CYC	OB-C4B	2.51	1.28	1.23
13	Y1	201	CYC	C1B-NB	-2.51	1.33	1.37
13	A3	301	CYC	C4C-NC	-2.51	1.32	1.37
13	Q1	201	CYC	C1B-NB	-2.51	1.33	1.37
13	E4	201	CYC	C1D-CHD	2.51	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	Q4	201	CYC	C4C-NC	-2.51	1.32	1.37
13	e8	1001	CYC	C1B-C2B	2.51	1.49	1.45
13	W1	1001	CYC	C2C-C1C	-2.50	1.49	1.52
13	E7	201	CYC	C1D-CHD	2.50	1.50	1.41
13	R1	1001	CYC	C1B-NB	-2.50	1.33	1.37
13	O4	1001	CYC	OB-C4B	2.50	1.28	1.23
13	Y1	201	CYC	OB-C4B	2.50	1.28	1.23
13	H7	1001	CYC	C1B-NB	-2.50	1.33	1.37
13	J6	1001	CYC	OB-C4B	2.50	1.28	1.23
13	GA	1001	CYC	OB-C4B	2.50	1.28	1.23
13	L3	201	CYC	C2C-C1C	-2.50	1.49	1.52
13	E5	202	CYC	C4C-NC	-2.50	1.32	1.37
13	H3	1001	CYC	C1B-NB	-2.50	1.33	1.37
13	C1	301	CYC	C1B-NB	-2.50	1.33	1.37
13	W6	202	CYC	C1B-NB	-2.50	1.33	1.37
13	J1	1001	CYC	C1B-NB	-2.50	1.33	1.37
13	R4	1001	CYC	C1B-NB	-2.50	1.33	1.37
13	p8	1001	CYC	C1B-C2B	2.50	1.49	1.45
13	J3	1001	CYC	C1B-NB	-2.50	1.33	1.37
13	E6	201	CYC	C1D-CHD	2.50	1.50	1.41
13	D1	1001	CYC	OB-C4B	2.50	1.28	1.23
13	PA	203	CYC	C1B-NB	-2.50	1.33	1.37
13	Y2	201	CYC	C2C-C1C	-2.50	1.49	1.52
13	T4	202	CYC	C1B-NB	-2.50	1.33	1.37
13	P5	203	CYC	C1B-NB	-2.50	1.33	1.37
13	L5	201	CYC	OB-C4B	2.49	1.28	1.23
13	A8	1001	CYC	OB-C4B	2.49	1.28	1.23
13	F2	1001	CYC	C1B-NB	-2.49	1.33	1.37
13	F1	1001	CYC	OB-C4B	2.49	1.28	1.23
13	S6	1001	CYC	C4C-NC	-2.49	1.32	1.37
13	DA	1001	CYC	C1B-NB	-2.49	1.33	1.37
13	C2	201	CYC	C4C-NC	-2.49	1.32	1.37
13	Z4	202	CYC	OB-C4B	2.49	1.28	1.23
13	E3	201	CYC	C1D-CHD	2.49	1.50	1.41
13	Y4	201	CYC	C1B-NB	-2.49	1.33	1.37
13	V9	201	CYC	C1B-C2B	2.49	1.49	1.45
13	W5	1001	CYC	C1B-NB	-2.49	1.33	1.37
13	OA	1001	CYC	C4C-NC	-2.49	1.32	1.37
13	J1	1001	CYC	OB-C4B	2.49	1.28	1.23
13	E1	201	CYC	C1D-CHD	2.49	1.50	1.41
13	F1	1001	CYC	C4C-NC	-2.49	1.32	1.37
13	J2	1001	CYC	C1B-NB	-2.49	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A3	301	CYC	OB-C4B	2.49	1.28	1.23
13	Y4	201	CYC	C4C-NC	-2.49	1.32	1.37
13	E9	1001	CYC	C1B-NB	-2.49	1.33	1.37
13	WA	1001	CYC	C1B-NB	-2.49	1.33	1.37
13	E2	201	CYC	C1D-CHD	2.49	1.50	1.41
13	R1	1001	CYC	C4C-NC	-2.49	1.32	1.37
13	U2	202	CYC	C4C-NC	-2.49	1.32	1.37
13	J5	1001	CYC	OB-C4B	2.49	1.28	1.23
13	LA	201	CYC	OB-C4B	2.49	1.28	1.23
13	L7	201	CYC	C2C-C1C	-2.49	1.49	1.52
13	D3	1001	CYC	OB-C4B	2.49	1.28	1.23
13	Y4	201	CYC	OB-C4B	2.49	1.28	1.23
13	U6	202	CYC	C4C-NC	-2.48	1.32	1.37
13	Z4	202	CYC	C1B-NB	-2.48	1.33	1.37
13	L7	201	CYC	C1B-NB	-2.48	1.33	1.37
13	G2	202	CYC	C1B-NB	-2.48	1.33	1.37
13	J7	1001	CYC	C1B-NB	-2.48	1.33	1.37
13	L1	201	CYC	OB-C4B	2.48	1.28	1.23
13	O1	1001	CYC	C4C-NC	-2.48	1.32	1.37
13	JA	1001	CYC	C4C-NC	-2.48	1.32	1.37
13	H1	1001	CYC	C1B-NB	-2.48	1.33	1.37
13	Z2	202	CYC	C1B-NB	-2.48	1.33	1.37
13	Q9	201	CYC	C1B-NB	-2.48	1.33	1.37
13	G1	202	CYC	C4C-NC	-2.48	1.32	1.37
13	C1	301	CYC	OB-C4B	2.48	1.28	1.23
13	D4	1001	CYC	OB-C4B	2.48	1.28	1.23
13	V2	202	CYC	C4C-NC	-2.48	1.32	1.37
13	D1	1001	CYC	C1B-NB	-2.48	1.33	1.37
13	WA	1001	CYC	C4C-NC	-2.48	1.32	1.37
13	w9	1001	CYC	C1B-NB	-2.48	1.33	1.37
13	L4	201	CYC	OB-C4B	2.48	1.28	1.23
13	C6	201	CYC	C4C-NC	-2.48	1.32	1.37
13	J5	1001	CYC	C4C-NC	-2.48	1.32	1.37
13	PA	203	CYC	C4C-NC	-2.48	1.32	1.37
13	J4	1001	CYC	C2C-C1C	-2.48	1.49	1.52
13	J4	1001	CYC	OB-C4B	2.48	1.28	1.23
13	D5	1001	CYC	OB-C4B	2.48	1.28	1.23
13	V1	202	CYC	C4C-NC	-2.48	1.32	1.37
13	n8	1001	CYC	C1B-C2B	2.47	1.49	1.45
13	F7	1001	CYC	C4C-NC	-2.47	1.32	1.37
13	H1	1001	CYC	OB-C4B	2.47	1.28	1.23
13	W5	1001	CYC	C4C-NC	-2.47	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	W5	1001	CYC	OB-C4B	2.47	1.28	1.23
13	WA	1001	CYC	OB-C4B	2.47	1.28	1.23
13	M5	1001	CYC	C4C-NC	-2.47	1.32	1.37
13	UA	1001	CYC	OB-C4B	2.47	1.28	1.23
13	L4	201	CYC	C4C-NC	-2.47	1.32	1.37
13	L7	201	CYC	C4C-NC	-2.47	1.32	1.37
13	F4	1001	CYC	C4C-NC	-2.47	1.32	1.37
13	D4	1001	CYC	C1B-NB	-2.47	1.33	1.37
13	J6	1001	CYC	C1B-NB	-2.47	1.33	1.37
13	C2	201	CYC	C1B-NB	-2.47	1.33	1.37
13	L3	201	CYC	C1B-NB	-2.47	1.33	1.37
13	T1	202	CYC	C4C-NC	-2.47	1.32	1.37
13	B4	1001	CYC	C4C-NC	-2.47	1.32	1.37
13	O2	1001	CYC	C4C-NC	-2.47	1.32	1.37
13	L3	201	CYC	C4C-NC	-2.47	1.32	1.37
13	D5	1001	CYC	C1B-NB	-2.47	1.33	1.37
13	V9	201	CYC	C1B-NB	-2.47	1.33	1.37
13	L6	201	CYC	C4C-NC	-2.47	1.32	1.37
13	T1	202	CYC	C1B-NB	-2.47	1.33	1.37
13	U4	1001	CYC	OB-C4B	2.47	1.28	1.23
13	U5	1001	CYC	OB-C4B	2.47	1.28	1.23
13	J1	1001	CYC	C2C-C1C	-2.47	1.49	1.52
13	V2	202	CYC	C1B-NB	-2.47	1.33	1.37
13	F3	1001	CYC	C1B-NB	-2.47	1.33	1.37
13	S2	1001	CYC	C4C-NC	-2.47	1.32	1.37
13	A3	301	CYC	C1B-NB	-2.47	1.33	1.37
13	F7	1001	CYC	C1B-NB	-2.47	1.33	1.37
13	C4	301	CYC	C4C-NC	-2.47	1.32	1.37
13	W6	202	CYC	C4C-NC	-2.47	1.32	1.37
13	G4	202	CYC	C4C-NC	-2.47	1.32	1.37
13	F6	1001	CYC	C1B-NB	-2.47	1.33	1.37
13	H4	1001	CYC	OB-C4B	2.46	1.28	1.23
13	Y1	201	CYC	C4C-NC	-2.46	1.32	1.37
13	L1	201	CYC	C4C-NC	-2.46	1.32	1.37
13	Y6	201	CYC	OB-C4B	2.46	1.28	1.23
13	H2	1001	CYC	C4C-NC	-2.46	1.32	1.37
13	EA	202	CYC	C4C-NC	-2.46	1.32	1.37
13	F4	1001	CYC	C1B-NB	-2.46	1.33	1.37
13	Q4	201	CYC	C1B-NB	-2.46	1.33	1.37
13	W4	1001	CYC	C1B-NB	-2.46	1.33	1.37
13	L2	201	CYC	C4C-NC	-2.46	1.32	1.37
13	C1	301	CYC	C4C-NC	-2.46	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	W2	202	CYC	C2C-C1C	-2.46	1.49	1.52
13	SA	1001	CYC	OB-C4B	2.46	1.28	1.23
13	m9	201	CYC	C1B-C2B	2.46	1.49	1.45
13	D2	1001	CYC	OB-C4B	2.46	1.28	1.23
13	B5	1001	CYC	OB-C4B	2.46	1.28	1.23
13	O6	1001	CYC	C4C-NC	-2.46	1.32	1.37
13	O6	1001	CYC	OB-C4B	2.46	1.28	1.23
13	H7	1001	CYC	OB-C4B	2.46	1.28	1.23
13	F2	1001	CYC	C4C-NC	-2.46	1.32	1.37
13	W2	202	CYC	C4C-NC	-2.46	1.32	1.37
13	J4	1001	CYC	C4C-NC	-2.46	1.32	1.37
13	D6	1001	CYC	OB-C4B	2.46	1.28	1.23
13	U1	1001	CYC	OB-C4B	2.46	1.28	1.23
13	C6	201	CYC	C1B-NB	-2.46	1.33	1.37
13	Z8	1001	CYC	OB-C4B	2.46	1.28	1.23
13	W2	202	CYC	C1B-NB	-2.46	1.33	1.37
13	B1	1001	CYC	C4C-NC	-2.46	1.32	1.37
13	S4	1001	CYC	C4C-NC	-2.46	1.32	1.37
13	L1	201	CYC	C2C-C1C	-2.46	1.49	1.52
13	H6	1001	CYC	C1B-NB	-2.46	1.33	1.37
13	O1	1001	CYC	OB-C4B	2.46	1.28	1.23
13	R4	1001	CYC	C4C-NC	-2.46	1.32	1.37
13	T4	202	CYC	C4C-NC	-2.46	1.32	1.37
13	Z1	202	CYC	OB-C4B	2.46	1.28	1.23
13	J3	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	G2	202	CYC	C4C-NC	-2.45	1.32	1.37
13	Y2	201	CYC	OB-C4B	2.45	1.28	1.23
13	X8	1001	CYC	OB-C4B	2.45	1.28	1.23
13	Z6	202	CYC	C1B-NB	-2.45	1.33	1.37
13	LA	201	CYC	C1B-NB	-2.45	1.33	1.37
13	G3	201	CYC	C4C-NC	-2.45	1.32	1.37
13	W1	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	B6	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	J4	1001	CYC	C1B-NB	-2.45	1.33	1.37
13	C9	1001	CYC	C1B-NB	-2.45	1.33	1.37
13	X9	1001	CYC	C1B-NB	-2.45	1.33	1.37
13	V8	1001	CYC	OB-C4B	2.45	1.28	1.23
13	U4	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	YA	201	CYC	C1B-NB	-2.45	1.33	1.37
13	P5	203	CYC	C4C-NC	-2.45	1.32	1.37
13	J7	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	T9	1001	CYC	C1B-NB	-2.45	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B5	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	L4	201	CYC	C1B-NB	-2.45	1.33	1.37
13	H7	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	m9	201	CYC	C1B-NB	-2.45	1.33	1.37
13	H1	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	C2	201	CYC	OB-C4B	2.45	1.28	1.23
13	MA	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	DA	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	H3	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	A7	301	CYC	C1B-NB	-2.45	1.33	1.37
13	O2	1001	CYC	OB-C4B	2.45	1.28	1.23
13	j8	1001	CYC	OB-C4B	2.45	1.28	1.23
13	H4	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	V4	202	CYC	C1B-NB	-2.45	1.33	1.37
13	O4	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	A7	301	CYC	C2C-C1C	-2.45	1.49	1.52
13	F6	1001	CYC	C4C-NC	-2.45	1.32	1.37
13	H4	1001	CYC	C1B-NB	-2.45	1.33	1.37
13	O5	1001	CYC	C4C-NC	-2.44	1.32	1.37
13	Y2	201	CYC	C4C-NC	-2.44	1.32	1.37
13	YA	201	CYC	C4C-NC	-2.44	1.32	1.37
13	S5	1001	CYC	C1B-NB	-2.44	1.33	1.37
13	i9	1001	CYC	C1B-NB	-2.44	1.33	1.37
13	F1	1001	CYC	C1B-NB	-2.44	1.33	1.37
13	SA	1001	CYC	C4C-NC	-2.44	1.32	1.37
13	N2	302	CYC	C1B-NB	-2.44	1.33	1.37
13	H2	1001	CYC	C1B-NB	-2.44	1.33	1.37
13	G7	201	CYC	C4C-NC	-2.44	1.32	1.37
13	g9	1001	CYC	C4C-NC	-2.44	1.32	1.37
13	G4	202	CYC	C1B-NB	-2.44	1.33	1.37
13	H7	1001	CYC	C2C-C1C	-2.44	1.49	1.52
13	V4	202	CYC	C4C-NC	-2.44	1.32	1.37
13	S1	1001	CYC	C4C-NC	-2.44	1.32	1.37
13	W4	1001	CYC	C4C-NC	-2.44	1.32	1.37
13	E5	202	CYC	C1B-NB	-2.44	1.33	1.37
13	A9	1001	CYC	C1B-NB	-2.44	1.33	1.37
13	LA	201	CYC	C4C-NC	-2.43	1.32	1.37
13	r8	1001	CYC	OB-C4B	2.43	1.28	1.23
13	R2	1001	CYC	C4C-NC	-2.43	1.32	1.37
13	y9	1001	CYC	C1B-NB	-2.43	1.33	1.37
13	e8	1001	CYC	OB-C4B	2.43	1.28	1.23
13	N9	1001	CYC	C1B-NB	-2.43	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	H6	1001	CYC	OB-C4B	2.43	1.28	1.23
13	L2	201	CYC	C1B-NB	-2.43	1.33	1.37
13	U1	1001	CYC	C4C-NC	-2.43	1.32	1.37
13	D5	1001	CYC	C4C-NC	-2.43	1.32	1.37
13	GA	1001	CYC	C4C-NC	-2.43	1.32	1.37
13	U2	202	CYC	OB-C4B	2.43	1.28	1.23
13	S5	1001	CYC	C4C-NC	-2.43	1.32	1.37
13	S2	1001	CYC	OB-C4B	2.43	1.28	1.23
13	H3	1001	CYC	OB-C4B	2.43	1.28	1.23
13	O5	1001	CYC	C1B-NB	-2.43	1.33	1.37
13	L5	201	CYC	C4C-NC	-2.43	1.32	1.37
13	S8	1001	CYC	OB-C4B	2.43	1.28	1.23
13	V6	202	CYC	C4C-NC	-2.43	1.32	1.37
13	C8	1001	CYC	OB-C4B	2.43	1.28	1.23
13	E8	1001	CYC	OB-C4B	2.43	1.28	1.23
13	p8	1001	CYC	OB-C4B	2.43	1.28	1.23
13	U5	1001	CYC	C1B-NB	-2.43	1.33	1.37
13	U5	1001	CYC	C4C-NC	-2.43	1.32	1.37
13	g8	1001	CYC	OB-C4B	2.43	1.28	1.23
13	N2	302	CYC	C4C-NC	-2.43	1.32	1.37
13	V6	202	CYC	C1B-NB	-2.43	1.33	1.37
13	U6	202	CYC	OB-C4B	2.43	1.28	1.23
13	EA	202	CYC	C1B-NB	-2.43	1.33	1.37
13	B5	1001	CYC	C1B-NB	-2.43	1.33	1.37
13	Z6	202	CYC	C4C-NC	-2.42	1.32	1.37
13	H3	1001	CYC	C1B-C2B	2.42	1.49	1.45
13	J5	1001	CYC	C1B-NB	-2.42	1.33	1.37
13	S6	1001	CYC	OB-C4B	2.42	1.28	1.23
13	R6	1001	CYC	C4C-NC	-2.42	1.32	1.37
13	c8	1001	CYC	OB-C4B	2.42	1.28	1.23
13	b9	1001	CYC	C1B-NB	-2.42	1.33	1.37
13	N6	302	CYC	C4C-NC	-2.42	1.32	1.37
13	L8	1001	CYC	OB-C4B	2.42	1.28	1.23
13	Z9	1001	CYC	C1B-NB	-2.42	1.33	1.37
13	UA	1001	CYC	C1B-NB	-2.42	1.33	1.37
13	Q8	1001	CYC	OB-C4B	2.42	1.28	1.23
13	J1	1001	CYC	C4C-NC	-2.42	1.32	1.37
13	S4	1001	CYC	OB-C4B	2.42	1.28	1.23
13	H6	1001	CYC	C4C-NC	-2.42	1.32	1.37
13	Y5	201	CYC	C4C-NC	-2.42	1.32	1.37
13	G6	202	CYC	C4C-NC	-2.42	1.32	1.37
13	W1	1001	CYC	C1B-NB	-2.42	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	G3	201	CYC	C1B-NB	-2.42	1.33	1.37
13	N6	302	CYC	C1B-NB	-2.42	1.33	1.37
13	n8	1001	CYC	OB-C4B	2.42	1.28	1.23
13	B3	1001	CYC	C1B-NB	-2.42	1.33	1.37
13	S5	1001	CYC	OB-C4B	2.42	1.28	1.23
13	A7	301	CYC	C1B-C2B	2.42	1.49	1.45
13	Z2	202	CYC	C4C-NC	-2.42	1.32	1.37
13	H2	1001	CYC	OB-C4B	2.42	1.28	1.23
13	l8	1001	CYC	OB-C4B	2.41	1.28	1.23
13	G6	202	CYC	C1B-NB	-2.41	1.33	1.37
13	Z1	202	CYC	C4C-NC	-2.41	1.32	1.37
13	O8	1001	CYC	OB-C4B	2.41	1.28	1.23
13	G7	201	CYC	C1B-NB	-2.41	1.33	1.37
13	o9	1001	CYC	C1B-NB	-2.41	1.33	1.37
13	A3	301	CYC	C1B-C2B	2.41	1.49	1.45
13	H8	1001	CYC	OB-C4B	2.41	1.28	1.23
13	G1	202	CYC	C1B-NB	-2.41	1.33	1.37
13	Q2	201	CYC	C1B-NB	-2.41	1.33	1.37
13	OA	1001	CYC	C1B-NB	-2.41	1.33	1.37
13	J2	1001	CYC	C4C-NC	-2.41	1.32	1.37
13	L6	201	CYC	C1B-NB	-2.41	1.33	1.37
13	H3	1001	CYC	C2C-C1C	-2.41	1.49	1.52
13	Z4	202	CYC	C4C-NC	-2.41	1.32	1.37
13	SA	1001	CYC	C1B-NB	-2.41	1.33	1.37
13	t8	1001	CYC	OB-C4B	2.41	1.28	1.23
13	S4	1001	CYC	C1B-NB	-2.41	1.33	1.37
13	Y6	201	CYC	C4C-NC	-2.41	1.32	1.37
13	UA	1001	CYC	C4C-NC	-2.41	1.32	1.37
13	O2	1001	CYC	C1B-NB	-2.40	1.33	1.37
13	I9	1001	CYC	C1B-NB	-2.40	1.33	1.37
13	H7	1001	CYC	C1B-C2B	2.40	1.49	1.45
13	Y1	201	CYC	C1B-C2B	2.40	1.49	1.45
13	D4	1001	CYC	C4C-NC	-2.40	1.32	1.37
13	L1	201	CYC	C1B-NB	-2.40	1.33	1.37
13	G9	1001	CYC	C1B-NB	-2.40	1.33	1.37
13	S1	1001	CYC	C1B-C2B	2.40	1.49	1.45
13	L5	201	CYC	C1B-NB	-2.40	1.33	1.37
13	GA	1001	CYC	C1B-NB	-2.40	1.33	1.37
13	B1	1001	CYC	C1B-NB	-2.40	1.33	1.37
13	f9	1001	CYC	C1B-NB	-2.40	1.33	1.37
13	k9	1001	CYC	C1B-NB	-2.40	1.33	1.37
13	Y4	201	CYC	C1B-C2B	2.40	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	W6	202	CYC	C1B-C2B	2.40	1.49	1.45
13	J6	1001	CYC	C4C-NC	-2.39	1.32	1.37
13	D2	1001	CYC	C1B-NB	-2.39	1.33	1.37
13	U6	202	CYC	C1B-NB	-2.39	1.33	1.37
13	Q6	201	CYC	C1B-NB	-2.39	1.33	1.37
13	J8	1001	CYC	OB-C4B	2.39	1.28	1.23
13	O4	1001	CYC	C1B-NB	-2.39	1.33	1.37
13	M5	1001	CYC	C1B-NB	-2.39	1.33	1.37
13	V1	202	CYC	C1B-NB	-2.39	1.33	1.37
13	D1	1001	CYC	C4C-NC	-2.39	1.32	1.37
13	s9	1001	CYC	C1B-NB	-2.39	1.33	1.37
13	d9	1001	CYC	C1B-NB	-2.39	1.33	1.37
13	S1	1001	CYC	OB-C4B	2.39	1.28	1.23
13	B4	1001	CYC	C1B-NB	-2.39	1.33	1.37
13	B6	1001	CYC	C1B-NB	-2.39	1.33	1.37
13	U4	1001	CYC	C1B-NB	-2.39	1.33	1.37
13	O6	1001	CYC	C1B-NB	-2.39	1.33	1.37
13	K9	1001	CYC	C1B-NB	-2.39	1.33	1.37
13	P9	1001	CYC	C1B-NB	-2.39	1.33	1.37
13	B2	1001	CYC	C4C-NC	-2.38	1.32	1.37
13	D3	1001	CYC	C4C-NC	-2.38	1.32	1.37
13	B7	1001	CYC	C1B-NB	-2.38	1.33	1.37
13	F2	1001	CYC	C1B-C2B	2.38	1.49	1.45
13	S4	1001	CYC	C1B-C2B	2.38	1.49	1.45
13	JA	1001	CYC	C1B-NB	-2.38	1.33	1.37
13	u9	1001	CYC	C1B-NB	-2.38	1.33	1.37
13	C4	301	CYC	C1B-C2B	2.38	1.49	1.45
13	S1	1001	CYC	C1B-NB	-2.38	1.33	1.37
13	U2	202	CYC	C1B-NB	-2.38	1.33	1.37
13	R9	1001	CYC	C1B-NB	-2.38	1.33	1.37
13	B2	1001	CYC	C1B-NB	-2.37	1.33	1.37
13	A3	301	CYC	C2C-C1C	-2.37	1.50	1.52
13	B7	1001	CYC	C4C-NC	-2.37	1.32	1.37
13	W4	1001	CYC	C1B-C2B	2.37	1.49	1.45
13	U1	1001	CYC	C1B-NB	-2.37	1.33	1.37
13	H1	1001	CYC	C1B-C2B	2.37	1.49	1.45
13	q9	1001	CYC	OB-C4B	2.37	1.28	1.23
13	B6	1001	CYC	C1B-C2B	2.37	1.49	1.45
13	Y2	201	CYC	C1B-NB	-2.37	1.33	1.37
13	D2	1001	CYC	C4C-NC	-2.37	1.32	1.37
13	q9	1001	CYC	C1B-NB	-2.37	1.33	1.37
13	SA	1001	CYC	C1B-C2B	2.37	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	C2	201	CYC	C1B-C2B	2.36	1.49	1.45
13	D1	1001	CYC	C1B-C2B	2.36	1.49	1.45
13	B2	1001	CYC	C1B-C2B	2.36	1.49	1.45
13	D7	1001	CYC	C1B-NB	-2.36	1.33	1.37
13	D6	1001	CYC	C1B-NB	-2.36	1.33	1.37
13	W1	1001	CYC	C4B-NB	-2.36	1.33	1.38
13	O1	1001	CYC	C1B-NB	-2.36	1.33	1.37
13	MA	1001	CYC	C1B-NB	-2.36	1.33	1.37
13	i9	1001	CYC	OB-C4B	2.36	1.28	1.23
13	C1	301	CYC	C1B-C2B	2.36	1.49	1.45
13	Q2	201	CYC	C1B-C2B	2.36	1.49	1.45
13	DA	1001	CYC	C1B-C2B	2.36	1.49	1.45
13	Y5	201	CYC	C1B-NB	-2.36	1.33	1.37
13	D6	1001	CYC	C4C-NC	-2.35	1.32	1.37
13	H6	1001	CYC	C1B-C2B	2.35	1.49	1.45
13	WA	1001	CYC	C1B-C2B	2.35	1.49	1.45
13	k9	1001	CYC	OB-C4B	2.35	1.28	1.23
13	L4	201	CYC	C1B-C2B	2.35	1.49	1.45
13	W5	1001	CYC	C1B-C2B	2.35	1.49	1.45
13	W4	1001	CYC	C4B-NB	-2.35	1.33	1.38
13	D3	1001	CYC	C1B-NB	-2.35	1.33	1.37
13	C6	201	CYC	C1B-C2B	2.35	1.49	1.45
13	L2	201	CYC	C1B-C2B	2.35	1.49	1.45
13	Z9	1001	CYC	OB-C4B	2.35	1.28	1.23
13	Y6	201	CYC	C1B-NB	-2.35	1.33	1.37
13	W1	1001	CYC	C1B-C2B	2.35	1.49	1.45
13	19	1205	CYC	C1B-C2B	2.35	1.49	1.45
13	B3	1001	CYC	C4C-NC	-2.35	1.32	1.37
13	J5	1001	CYC	C1B-C2B	2.35	1.49	1.45
13	MA	1001	CYC	C1B-C2B	2.35	1.49	1.45
13	r8	1001	CYC	C4A-C3A	2.34	1.50	1.45
13	F6	1001	CYC	C1B-C2B	2.34	1.49	1.45
13	R6	1001	CYC	C1B-C2B	2.34	1.49	1.45
13	D7	1001	CYC	C4C-NC	-2.34	1.32	1.37
13	E9	1001	CYC	OB-C4B	2.34	1.28	1.23
13	B1	1001	CYC	C4B-NB	-2.34	1.33	1.38
13	u9	1001	CYC	OB-C4B	2.34	1.28	1.23
13	R2	1001	CYC	C1B-C2B	2.34	1.49	1.45
13	U9	1001	CYC	C1B-C2B	2.34	1.49	1.45
13	N9	1001	CYC	OB-C4B	2.34	1.28	1.23
13	H4	1001	CYC	C1B-C2B	2.34	1.49	1.45
13	A9	1001	CYC	OB-C4B	2.34	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	j9	1001	CYC	C1B-C2B	2.34	1.49	1.45
13	L1	201	CYC	C1B-C2B	2.34	1.49	1.45
13	O8	1001	CYC	C4A-C3A	2.33	1.50	1.45
13	H2	1001	CYC	C1B-C2B	2.33	1.49	1.45
13	19	1203	CYC	C1B-C2B	2.33	1.49	1.45
13	D3	1001	CYC	C1B-C2B	2.33	1.49	1.45
13	L8	1001	CYC	C4A-C3A	2.33	1.50	1.45
13	Q8	1001	CYC	C2C-C1C	-2.33	1.50	1.52
13	W2	202	CYC	C1B-C2B	2.33	1.49	1.45
13	I9	1001	CYC	OB-C4B	2.33	1.28	1.23
13	O4	1001	CYC	C1B-C2B	2.33	1.49	1.45
13	O5	1001	CYC	C1B-C2B	2.33	1.49	1.45
13	N2	302	CYC	C4B-NB	-2.33	1.33	1.38
13	S6	1001	CYC	C1B-NB	-2.33	1.33	1.37
13	C2	201	CYC	C4B-NB	-2.33	1.33	1.38
13	L6	201	CYC	C1B-C2B	2.33	1.49	1.45
13	Q1	201	CYC	C1B-C2B	2.33	1.49	1.45
13	UA	1001	CYC	C4B-NB	-2.33	1.33	1.38
13	B1	1001	CYC	C1B-C2B	2.33	1.49	1.45
13	L1	201	CYC	C4B-NB	-2.33	1.33	1.38
13	U2	202	CYC	C1B-C2B	2.33	1.49	1.45
13	f9	1001	CYC	OB-C4B	2.33	1.28	1.23
13	s9	1001	CYC	OB-C4B	2.33	1.28	1.23
13	X8	1001	CYC	C4A-C3A	2.32	1.50	1.45
13	C9	1001	CYC	OB-C4B	2.32	1.28	1.23
13	L3	201	CYC	C1B-C2B	2.32	1.49	1.45
13	z9	1001	CYC	C1B-C2B	2.32	1.49	1.45
13	U5	1001	CYC	C1B-C2B	2.32	1.49	1.45
13	J9	1001	CYC	C1B-C2B	2.32	1.49	1.45
13	N6	302	CYC	C4B-NB	-2.32	1.33	1.38
13	U5	1001	CYC	C4B-NB	-2.32	1.33	1.38
13	R9	1001	CYC	OB-C4B	2.32	1.28	1.23
13	L7	201	CYC	C1B-C2B	2.32	1.49	1.45
13	Y2	201	CYC	C1B-C2B	2.32	1.49	1.45
13	Q8	1001	CYC	C4A-C3A	2.32	1.50	1.45
13	M5	1001	CYC	C1B-C2B	2.32	1.49	1.45
13	S5	1001	CYC	C1B-C2B	2.32	1.49	1.45
13	19	1204	CYC	C1B-C2B	2.32	1.49	1.45
13	X9	1001	CYC	OB-C4B	2.32	1.28	1.23
13	H1	1001	CYC	C4B-NB	-2.32	1.33	1.38
13	J3	1001	CYC	C1B-C2B	2.32	1.49	1.45
13	B4	1001	CYC	C1B-C2B	2.32	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	e9	1001	CYC	C1B-C2B	2.32	1.49	1.45
13	O1	1001	CYC	C1B-C2B	2.32	1.49	1.45
13	n8	1001	CYC	C4A-C3A	2.32	1.50	1.45
13	p8	1001	CYC	C4A-C3A	2.32	1.50	1.45
13	t8	1001	CYC	C4A-C3A	2.32	1.50	1.45
13	H8	1001	CYC	C4A-C3A	2.32	1.50	1.45
13	EA	202	CYC	C1B-C2B	2.32	1.49	1.45
13	g9	1001	CYC	OB-C4B	2.32	1.28	1.23
13	l8	1001	CYC	C2C-C1C	-2.32	1.50	1.52
13	b9	1001	CYC	OB-C4B	2.32	1.28	1.23
13	H9	1001	CYC	C1B-C2B	2.32	1.49	1.45
13	Q9	201	CYC	C1D-CHD	2.32	1.50	1.41
13	Q4	201	CYC	C1B-C2B	2.32	1.49	1.45
13	D5	1001	CYC	C1B-C2B	2.32	1.49	1.45
13	x9	1001	CYC	C1B-C2B	2.32	1.49	1.45
13	S8	1001	CYC	C4A-C3A	2.32	1.50	1.45
13	d9	1001	CYC	OB-C4B	2.32	1.28	1.23
13	B3	1001	CYC	C1B-C2B	2.31	1.49	1.45
13	Y6	201	CYC	C1B-C2B	2.31	1.49	1.45
13	OA	1001	CYC	C1B-C2B	2.31	1.49	1.45
13	YA	201	CYC	C1B-C2B	2.31	1.49	1.45
13	S9	1001	CYC	C1B-C2B	2.31	1.49	1.45
13	o9	1001	CYC	OB-C4B	2.31	1.28	1.23
13	Z8	1001	CYC	C4A-C3A	2.31	1.50	1.45
13	p9	1001	CYC	C1B-C2B	2.31	1.49	1.45
13	t9	1001	CYC	C1B-C2B	2.31	1.49	1.45
13	E5	202	CYC	C1B-C2B	2.31	1.49	1.45
13	PA	203	CYC	C1B-C2B	2.31	1.49	1.45
13	g8	1001	CYC	C4A-C3A	2.31	1.50	1.45
13	JA	1001	CYC	C1B-C2B	2.31	1.49	1.45
13	L7	201	CYC	C4B-NB	-2.31	1.33	1.38
13	Z6	202	CYC	C1B-C2B	2.31	1.49	1.45
13	D7	1001	CYC	C1B-C2B	2.31	1.49	1.45
13	C4	301	CYC	C4B-NB	-2.31	1.33	1.38
13	F3	1001	CYC	C4B-NB	-2.30	1.33	1.38
13	C8	1001	CYC	C4A-C3A	2.30	1.50	1.45
13	e8	1001	CYC	C4A-C3A	2.30	1.50	1.45
13	S8	1001	CYC	C2C-C1C	-2.30	1.50	1.52
13	LA	201	CYC	C1B-C2B	2.30	1.49	1.45
13	K9	1001	CYC	OB-C4B	2.30	1.28	1.23
13	B7	1001	CYC	C1B-C2B	2.30	1.49	1.45
13	UA	1001	CYC	C1B-C2B	2.30	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	D4	1001	CYC	C1B-C2B	2.30	1.49	1.45
13	U6	202	CYC	C1B-C2B	2.30	1.49	1.45
13	G9	1001	CYC	OB-C4B	2.30	1.28	1.23
13	T9	1001	CYC	OB-C4B	2.30	1.28	1.23
13	V8	1001	CYC	C2C-C1C	-2.30	1.50	1.52
13	S2	1001	CYC	C1B-NB	-2.30	1.34	1.37
13	O2	1001	CYC	C1B-C2B	2.30	1.49	1.45
13	A8	1001	CYC	C4A-C3A	2.30	1.50	1.45
13	P5	203	CYC	C1B-C2B	2.30	1.49	1.45
13	l8	1001	CYC	C4A-C3A	2.30	1.50	1.45
13	O4	1001	CYC	C4B-NB	-2.30	1.33	1.38
13	09	1202	CYC	C1B-NB	-2.30	1.34	1.37
13	Q6	201	CYC	C1B-C2B	2.30	1.49	1.45
13	F9	1001	CYC	C1B-C2B	2.30	1.49	1.45
13	F7	1001	CYC	C4B-NB	-2.30	1.33	1.38
13	y9	1001	CYC	OB-C4B	2.30	1.28	1.23
13	P9	1001	CYC	OB-C4B	2.30	1.28	1.23
13	JA	1001	CYC	C4B-NB	-2.30	1.33	1.38
13	w9	1001	CYC	OB-C4B	2.30	1.28	1.23
13	l9	1001	CYC	C1B-C2B	2.30	1.49	1.45
13	G1	202	CYC	C4B-NB	-2.29	1.33	1.38
13	E8	1001	CYC	C4A-C3A	2.29	1.50	1.45
13	g9	1001	CYC	C1B-NB	-2.29	1.34	1.37
13	H8	1001	CYC	C2C-C1C	-2.29	1.50	1.52
13	j8	1001	CYC	C2C-C1C	-2.29	1.50	1.52
13	t8	1001	CYC	C2C-C1C	-2.29	1.50	1.52
13	v9	1001	CYC	C1B-C2B	2.29	1.49	1.45
13	S6	1001	CYC	C1B-C2B	2.29	1.49	1.45
13	L3	201	CYC	C4B-NB	-2.29	1.33	1.38
13	W6	202	CYC	C4B-NB	-2.29	1.33	1.38
13	D7	1001	CYC	C4B-NB	-2.29	1.33	1.38
13	J8	1001	CYC	C4A-C3A	2.29	1.50	1.45
13	V8	1001	CYC	C4A-C3A	2.29	1.50	1.45
13	A3	301	CYC	C4B-NB	-2.29	1.33	1.38
13	Y6	201	CYC	C4B-NB	-2.29	1.33	1.38
13	Z6	202	CYC	C4B-NB	-2.29	1.33	1.38
13	B4	1001	CYC	C4B-NB	-2.29	1.33	1.38
13	c8	1001	CYC	C4A-C3A	2.29	1.50	1.45
13	L6	201	CYC	C4B-NB	-2.29	1.33	1.38
13	F4	1001	CYC	C1B-C2B	2.29	1.49	1.45
13	09	1203	CYC	C1B-C2B	2.29	1.49	1.45
13	H4	1001	CYC	C4B-NB	-2.29	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	V2	202	CYC	C1B-C2B	2.29	1.49	1.45
13	Y2	201	CYC	C4B-NB	-2.28	1.33	1.38
13	B3	1001	CYC	C4B-NB	-2.28	1.33	1.38
13	C1	301	CYC	C4B-NB	-2.28	1.33	1.38
13	O6	1001	CYC	C4B-NB	-2.28	1.33	1.38
13	C6	201	CYC	C4B-NB	-2.28	1.33	1.38
13	p8	1001	CYC	C2C-C1C	-2.28	1.50	1.52
13	g8	1001	CYC	C2C-C1C	-2.28	1.50	1.52
13	N2	302	CYC	C1B-C2B	2.28	1.49	1.45
13	39	1001	CYC	C1B-C2B	2.28	1.49	1.45
13	r9	1001	CYC	C1B-C2B	2.28	1.49	1.45
13	D3	1001	CYC	C4B-NB	-2.28	1.33	1.38
13	J6	1001	CYC	C1B-C2B	2.28	1.49	1.45
13	AA	301	CYC	C4B-NB	-2.28	1.33	1.38
13	Z1	202	CYC	C1B-C2B	2.28	1.49	1.45
13	c9	1001	CYC	C1B-C2B	2.28	1.49	1.45
13	O6	1001	CYC	C1B-C2B	2.28	1.49	1.45
13	J7	1001	CYC	C1B-C2B	2.28	1.49	1.45
13	O9	1001	CYC	C1B-C2B	2.28	1.49	1.45
13	A7	301	CYC	C4B-NB	-2.28	1.33	1.38
13	L5	201	CYC	C1B-C2B	2.28	1.49	1.45
13	F7	1001	CYC	C1B-C2B	2.28	1.49	1.45
13	M5	1001	CYC	C4B-NB	-2.28	1.33	1.38
13	V6	202	CYC	C1B-C2B	2.28	1.49	1.45
13	B6	1001	CYC	C4B-NB	-2.28	1.33	1.38
13	e8	1001	CYC	C2C-C1C	-2.28	1.50	1.52
13	J8	1001	CYC	C2C-C1C	-2.27	1.50	1.52
13	E1	201	CYC	C4B-NB	-2.27	1.33	1.38
13	T4	202	CYC	C4B-NB	-2.27	1.33	1.38
13	j8	1001	CYC	C4A-C3A	2.27	1.50	1.45
13	O8	1001	CYC	C2C-C1C	-2.27	1.50	1.52
13	B9	1001	CYC	C1B-C2B	2.27	1.49	1.45
13	L2	201	CYC	C4B-NB	-2.27	1.33	1.38
13	F4	1001	CYC	C4B-NB	-2.27	1.33	1.38
13	Y5	201	CYC	C1B-C2B	2.27	1.49	1.45
13	L9	1001	CYC	C1B-C2B	2.27	1.49	1.45
13	J6	1001	CYC	C4B-NB	-2.27	1.33	1.38
13	J7	1001	CYC	C4B-NB	-2.27	1.33	1.38
13	U2	202	CYC	C4B-NB	-2.27	1.33	1.38
13	D6	1001	CYC	C4B-NB	-2.27	1.33	1.38
13	29	1001	CYC	C1B-C2B	2.27	1.49	1.45
13	E8	1001	CYC	C2C-C1C	-2.27	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	O1	1001	CYC	C4B-NB	-2.27	1.33	1.38
13	S2	1001	CYC	C1B-C2B	2.27	1.49	1.45
13	L4	201	CYC	C4B-NB	-2.27	1.33	1.38
13	GA	1001	CYC	C1B-C2B	2.27	1.49	1.45
13	P5	203	CYC	C4B-NB	-2.26	1.33	1.38
13	XA	201	CYC	C4D-CHA	2.26	1.49	1.41
13	A8	1001	CYC	C2C-C1C	-2.26	1.50	1.52
13	V5	201	CYC	C4D-CHA	2.26	1.49	1.41
13	D9	1001	CYC	C1B-C2B	2.26	1.49	1.45
13	O2	1001	CYC	C4B-NB	-2.26	1.33	1.38
13	I3	201	CYC	C4D-CHA	2.26	1.49	1.41
13	R2	1001	CYC	C4B-NB	-2.26	1.33	1.38
13	VA	201	CYC	C4D-CHA	2.26	1.49	1.41
13	B5	1001	CYC	C1B-C2B	2.26	1.49	1.45
13	I5	201	CYC	C4D-CHA	2.26	1.49	1.41
13	W2	202	CYC	C4B-NB	-2.26	1.33	1.38
13	G6	202	CYC	C4B-NB	-2.26	1.33	1.38
13	X4	201	CYC	C4D-CHA	2.26	1.49	1.41
13	F2	1001	CYC	C4B-NB	-2.26	1.33	1.38
13	N6	302	CYC	C1B-C2B	2.26	1.49	1.45
13	I4	201	CYC	C4D-CHA	2.26	1.49	1.41
13	PA	203	CYC	C4B-NB	-2.26	1.33	1.38
13	J4	1001	CYC	C1B-C2B	2.26	1.49	1.45
13	D5	1001	CYC	C4B-NB	-2.26	1.33	1.38
13	G4	202	CYC	C4B-NB	-2.26	1.33	1.38
13	F6	1001	CYC	C4B-NB	-2.26	1.33	1.38
13	B7	1001	CYC	C4B-NB	-2.26	1.33	1.38
13	H7	1001	CYC	C4B-NB	-2.26	1.33	1.38
13	J4	1001	CYC	C4B-NB	-2.26	1.33	1.38
13	E5	202	CYC	C4B-NB	-2.26	1.33	1.38
13	OA	1001	CYC	C4B-NB	-2.26	1.33	1.38
13	J1	1001	CYC	C1B-C2B	2.26	1.49	1.45
13	IA	201	CYC	C4D-CHA	2.25	1.49	1.41
13	D2	1001	CYC	C4B-NB	-2.25	1.33	1.38
13	U4	1001	CYC	C4B-NB	-2.25	1.33	1.38
13	R6	1001	CYC	C4B-NB	-2.25	1.33	1.38
13	Z2	202	CYC	C1B-C2B	2.25	1.49	1.45
13	X5	201	CYC	C4D-CHA	2.25	1.49	1.41
13	AA	302	CYC	C4B-NB	-2.25	1.33	1.38
13	G2	202	CYC	C1B-C2B	2.25	1.49	1.45
13	E4	201	CYC	C4B-NB	-2.25	1.33	1.38
13	G6	202	CYC	C1B-C2B	2.25	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	DA	1001	CYC	C4B-NB	-2.25	1.33	1.38
13	AA	304	CYC	C4D-CHA	2.25	1.49	1.41
13	G7	201	CYC	C4B-NB	-2.25	1.33	1.38
13	L8	1001	CYC	C2C-C1C	-2.25	1.50	1.52
13	H6	1001	CYC	C4B-NB	-2.25	1.33	1.38
13	O5	1001	CYC	C4B-NB	-2.25	1.33	1.38
13	G7	201	CYC	C1B-C2B	2.25	1.49	1.45
13	J2	1001	CYC	C1B-C2B	2.25	1.49	1.45
13	G3	201	CYC	C4B-NB	-2.25	1.33	1.38
13	I7	201	CYC	C4D-CHA	2.25	1.49	1.41
13	r8	1001	CYC	C2C-C1C	-2.25	1.50	1.52
13	A5	301	CYC	C4B-NB	-2.25	1.33	1.38
13	WA	1001	CYC	C4B-NB	-2.24	1.33	1.38
13	D2	1001	CYC	C1B-C2B	2.24	1.49	1.45
13	F1	1001	CYC	C4B-NB	-2.24	1.33	1.38
13	J3	1001	CYC	C4B-NB	-2.24	1.33	1.38
13	Z8	1001	CYC	C2C-C1C	-2.24	1.50	1.52
13	MA	1001	CYC	C4B-NB	-2.24	1.33	1.38
13	F1	1001	CYC	C1B-C2B	2.24	1.49	1.45
13	G3	201	CYC	C1B-C2B	2.24	1.49	1.45
13	I1	201	CYC	C4D-CHA	2.24	1.49	1.41
13	L5	201	CYC	C4B-NB	-2.24	1.33	1.38
13	N5	301	CYC	C4D-CHA	2.24	1.49	1.41
13	U1	1001	CYC	C4B-NB	-2.24	1.33	1.38
13	J5	1001	CYC	C4B-NB	-2.24	1.33	1.38
13	C8	1001	CYC	C2C-C1C	-2.24	1.50	1.52
13	LA	201	CYC	C4B-NB	-2.24	1.33	1.38
13	NA	301	CYC	C4D-CHA	2.24	1.49	1.41
13	H2	1001	CYC	C4B-NB	-2.24	1.33	1.38
13	Y5	201	CYC	C4B-NB	-2.24	1.33	1.38
13	U4	1001	CYC	C1B-C2B	2.24	1.49	1.45
13	J1	1001	CYC	C4B-NB	-2.24	1.33	1.38
13	T1	202	CYC	C4B-NB	-2.24	1.33	1.38
13	A5	302	CYC	C4B-NB	-2.24	1.33	1.38
13	D6	1001	CYC	C1B-C2B	2.24	1.49	1.45
13	c8	1001	CYC	C2C-C1C	-2.24	1.50	1.52
13	Z4	202	CYC	C4B-NB	-2.24	1.33	1.38
13	G1	202	CYC	C1B-C2B	2.24	1.49	1.45
13	GA	1001	CYC	C4B-NB	-2.23	1.33	1.38
13	f8	1001	CYC	C4D-CHA	2.23	1.49	1.41
13	R4	1001	CYC	C1B-C2B	2.23	1.49	1.45
13	EA	202	CYC	C4B-NB	-2.23	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	F3	1001	CYC	C1B-C2B	2.23	1.49	1.45
13	G4	202	CYC	C1B-C2B	2.23	1.49	1.45
13	V4	202	CYC	C1B-C2B	2.23	1.49	1.45
13	M8	1001	CYC	C4D-CHA	2.23	1.49	1.41
13	B2	1001	CYC	C4B-NB	-2.23	1.33	1.38
13	W5	1001	CYC	C4B-NB	-2.23	1.33	1.38
13	A5	304	CYC	C4D-CHA	2.23	1.49	1.41
13	D1	1001	CYC	C4B-NB	-2.23	1.33	1.38
13	E3	201	CYC	C4B-NB	-2.23	1.33	1.38
13	H3	1001	CYC	C4B-NB	-2.23	1.33	1.38
13	D8	1001	CYC	C4D-CHA	2.23	1.49	1.41
13	Z2	202	CYC	C4B-NB	-2.23	1.33	1.38
13	Y8	1001	CYC	C4D-CHA	2.23	1.49	1.41
13	Q9	201	CYC	C4B-NB	-2.23	1.33	1.38
13	B8	1001	CYC	C4D-CHA	2.23	1.49	1.41
13	X1	201	CYC	C4D-CHA	2.23	1.49	1.41
13	U6	202	CYC	C4B-NB	-2.22	1.33	1.38
13	E6	201	CYC	C4B-NB	-2.22	1.33	1.38
13	K8	1001	CYC	C4D-CHA	2.22	1.49	1.41
13	P8	1001	CYC	C4D-CHA	2.22	1.49	1.41
13	V1	202	CYC	C1B-C2B	2.22	1.49	1.45
13	J2	1001	CYC	C4B-NB	-2.22	1.33	1.38
13	h8	1001	CYC	C4D-CHA	2.22	1.49	1.41
13	V4	202	CYC	C4B-NB	-2.22	1.33	1.38
13	Z1	202	CYC	C4B-NB	-2.22	1.33	1.38
13	F8	1001	CYC	C4D-CHA	2.22	1.49	1.41
13	R8	1001	CYC	C4C-NC	-2.22	1.32	1.37
13	I6	201	CYC	C4D-CHA	2.22	1.49	1.41
13	S8	1001	CYC	C1B-NB	-2.22	1.34	1.37
13	D4	1001	CYC	C4B-NB	-2.22	1.33	1.38
13	I2	201	CYC	C4D-CHA	2.22	1.49	1.41
13	V1	202	CYC	C4B-NB	-2.22	1.33	1.38
13	A5	303	CYC	C4D-CHA	2.22	1.49	1.41
13	q8	1001	CYC	C4D-CHA	2.22	1.49	1.41
13	R4	1001	CYC	C4B-NB	-2.22	1.33	1.38
13	h8	1001	CYC	C4C-NC	-2.22	1.32	1.37
13	s8	1001	CYC	C4D-CHA	2.22	1.49	1.41
13	T1	202	CYC	C1B-C2B	2.22	1.49	1.45
13	d8	1001	CYC	C1B-C2B	2.22	1.49	1.45
13	YA	201	CYC	C4B-NB	-2.22	1.33	1.38
13	X6	201	CYC	C4D-CHA	2.22	1.49	1.41
13	T4	202	CYC	C1B-C2B	2.21	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	TA	201	CYC	C4D-CHA	2.21	1.49	1.41
13	M8	1001	CYC	C4C-NC	-2.21	1.32	1.37
13	ZA	201	CYC	C4D-CHA	2.21	1.49	1.41
13	n8	1001	CYC	C2C-C1C	-2.21	1.50	1.52
13	W8	1001	CYC	C4D-CHA	2.21	1.49	1.41
13	X8	1001	CYC	C2C-C1C	-2.21	1.50	1.52
13	Z5	201	CYC	C4D-CHA	2.21	1.49	1.41
13	U1	1001	CYC	C1B-C2B	2.21	1.49	1.45
13	09	1201	CYC	C4D-CHA	2.21	1.49	1.41
13	E7	201	CYC	C4B-NB	-2.21	1.33	1.38
13	I8	1001	CYC	C4D-CHA	2.21	1.49	1.41
13	R1	1001	CYC	C1B-C2B	2.21	1.49	1.45
13	T8	1001	CYC	C4D-CHA	2.21	1.49	1.41
13	Y4	201	CYC	C4B-NB	-2.21	1.33	1.38
13	B5	1001	CYC	C4B-NB	-2.21	1.33	1.38
13	F8	1001	CYC	C4C-NC	-2.21	1.32	1.37
13	e8	1001	CYC	C1B-NB	-2.21	1.34	1.37
13	R8	1001	CYC	C4D-CHA	2.21	1.49	1.41
13	d8	1001	CYC	C4D-CHA	2.21	1.49	1.41
13	19	1201	CYC	C4D-CHA	2.21	1.49	1.41
13	X2	201	CYC	C4D-CHA	2.20	1.49	1.41
13	19	1201	CYC	C4C-NC	-2.20	1.32	1.37
13	I9	1001	CYC	C3C-C4C	-2.20	1.47	1.50
13	K8	1001	CYC	C4C-NC	-2.20	1.32	1.37
13	SA	1001	CYC	C4B-NB	-2.20	1.33	1.38
13	o8	1001	CYC	C4D-CHA	2.20	1.49	1.41
13	b9	1001	CYC	C3C-C4C	-2.20	1.47	1.50
13	Z8	1001	CYC	C1B-NB	-2.20	1.34	1.37
13	Q6	201	CYC	C4B-NB	-2.20	1.33	1.38
13	g9	1001	CYC	C4A-C3A	2.20	1.50	1.45
13	b8	1001	CYC	C4D-CHA	2.20	1.49	1.41
13	T5	201	CYC	C4D-CHA	2.20	1.49	1.41
13	o8	1001	CYC	C4C-NC	-2.20	1.32	1.37
13	E8	1001	CYC	C1B-NB	-2.20	1.34	1.37
13	k8	1001	CYC	C4D-CHA	2.20	1.49	1.41
13	AA	303	CYC	C4D-CHA	2.20	1.49	1.41
13	Z4	202	CYC	C1B-C2B	2.20	1.49	1.45
13	K9	1001	CYC	C3C-C4C	-2.20	1.47	1.50
13	G2	202	CYC	C4B-NB	-2.20	1.33	1.38
13	j8	1001	CYC	C1B-NB	-2.20	1.34	1.37
13	P8	1001	CYC	C1B-C2B	2.20	1.49	1.45
13	E2	201	CYC	C4B-NB	-2.19	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	V8	1001	CYC	C1B-NB	-2.19	1.34	1.37
13	I8	1001	CYC	C4C-NC	-2.19	1.32	1.37
13	C9	1001	CYC	C3C-C4C	-2.19	1.47	1.50
13	J8	1001	CYC	C1B-NB	-2.19	1.34	1.37
13	q9	1001	CYC	C3C-C4C	-2.19	1.47	1.50
13	S6	1001	CYC	C4B-NB	-2.19	1.33	1.38
13	B8	1001	CYC	C4C-NC	-2.19	1.32	1.37
13	A9	1001	CYC	C3C-C4C	-2.19	1.47	1.50
13	C8	1001	CYC	C1B-NB	-2.19	1.34	1.37
13	P8	1001	CYC	C4C-NC	-2.19	1.32	1.37
13	R1	1001	CYC	C4B-NB	-2.19	1.33	1.38
13	S1	1001	CYC	C4B-NB	-2.19	1.33	1.38
13	Y1	201	CYC	C4B-NB	-2.19	1.33	1.38
13	Q2	201	CYC	C4B-NB	-2.19	1.33	1.38
13	A8	1001	CYC	C1B-NB	-2.18	1.34	1.37
13	D8	1001	CYC	C4C-NC	-2.18	1.32	1.37
13	g8	1001	CYC	C1B-NB	-2.18	1.34	1.37
13	Z9	1001	CYC	C4B-NB	-2.18	1.33	1.38
13	S4	1001	CYC	C4B-NB	-2.18	1.33	1.38
13	T8	1001	CYC	C4C-NC	-2.18	1.32	1.37
13	f8	1001	CYC	C1B-C2B	2.18	1.49	1.45
13	X8	1001	CYC	C1B-NB	-2.18	1.34	1.37
13	l8	1001	CYC	C1B-NB	-2.18	1.34	1.37
13	q8	1001	CYC	C4C-NC	-2.18	1.32	1.37
13	W8	1001	CYC	C1B-C2B	2.18	1.49	1.45
13	M8	1001	CYC	C1B-C2B	2.18	1.49	1.45
13	W8	1001	CYC	C4C-NC	-2.18	1.32	1.37
13	s8	1001	CYC	C4C-NC	-2.18	1.32	1.37
13	Q8	1001	CYC	C1B-NB	-2.18	1.34	1.37
13	g9	1001	CYC	C4B-NB	-2.18	1.33	1.38
13	S5	1001	CYC	C4B-NB	-2.18	1.33	1.38
13	b8	1001	CYC	C4C-NC	-2.18	1.32	1.37
13	Q4	201	CYC	C4B-NB	-2.18	1.33	1.38
13	s8	1001	CYC	C1B-C2B	2.18	1.49	1.45
13	k8	1001	CYC	C4C-NC	-2.17	1.32	1.37
13	V2	202	CYC	C4B-NB	-2.17	1.33	1.38
13	P9	1001	CYC	C3C-C4C	-2.17	1.47	1.50
13	f8	1001	CYC	C4C-NC	-2.17	1.32	1.37
13	c8	1001	CYC	C1B-NB	-2.17	1.34	1.37
13	t8	1001	CYC	C1B-NB	-2.17	1.34	1.37
13	P9	1001	CYC	C4B-NB	-2.17	1.33	1.38
13	h8	1001	CYC	C1B-C2B	2.17	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	Y8	1001	CYC	C4C-NC	-2.17	1.32	1.37
13	T9	1001	CYC	C3C-C4C	-2.17	1.47	1.50
13	O8	1001	CYC	C1B-NB	-2.17	1.34	1.37
13	T9	1001	CYC	C4B-NB	-2.17	1.33	1.38
13	b8	1001	CYC	C1B-C2B	2.17	1.49	1.45
13	b9	1001	CYC	C4B-NB	-2.17	1.33	1.38
13	R9	1001	CYC	C3C-C4C	-2.17	1.47	1.50
13	V9	201	CYC	C4A-C3A	2.17	1.50	1.45
13	d8	1001	CYC	C4C-NC	-2.17	1.32	1.37
13	m9	201	CYC	C4A-C3A	2.17	1.50	1.45
13	K8	1001	CYC	C1B-C2B	2.16	1.49	1.45
13	Y8	1001	CYC	C1B-C2B	2.16	1.49	1.45
13	r8	1001	CYC	C1B-NB	-2.16	1.34	1.37
13	I9	1001	CYC	C4B-NB	-2.16	1.33	1.38
13	q9	1001	CYC	C4B-NB	-2.16	1.33	1.38
13	B8	1001	CYC	C1B-C2B	2.16	1.49	1.45
13	K9	1001	CYC	C4B-NB	-2.16	1.33	1.38
13	L8	1001	CYC	C1B-NB	-2.16	1.34	1.37
13	o8	1001	CYC	C1B-C2B	2.16	1.49	1.45
13	19	1202	CYC	OB-C4B	2.16	1.27	1.23
13	k9	1001	CYC	C3C-C4C	-2.16	1.47	1.50
13	s9	1001	CYC	C4B-NB	-2.16	1.33	1.38
13	19	1201	CYC	C1B-C2B	2.16	1.49	1.45
13	X9	1001	CYC	C3C-C4C	-2.16	1.47	1.50
13	S2	1001	CYC	C4B-NB	-2.16	1.33	1.38
13	i9	1001	CYC	C3C-C4C	-2.16	1.47	1.50
13	R8	1001	CYC	C1B-C2B	2.16	1.49	1.45
13	V6	202	CYC	C4B-NB	-2.16	1.33	1.38
13	N9	1001	CYC	C3C-C4C	-2.15	1.47	1.50
13	d9	1001	CYC	C4B-NB	-2.15	1.33	1.38
13	D8	1001	CYC	C1B-C2B	2.15	1.49	1.45
13	q8	1001	CYC	C1B-C2B	2.15	1.49	1.45
13	F8	1001	CYC	C1B-C2B	2.15	1.49	1.45
13	k9	1001	CYC	C4B-NB	-2.15	1.33	1.38
13	Q9	201	CYC	C1B-C2B	2.15	1.49	1.45
13	p8	1001	CYC	C1B-NB	-2.15	1.34	1.37
13	Q1	201	CYC	C4B-NB	-2.15	1.33	1.38
13	w9	1001	CYC	C3C-C4C	-2.15	1.47	1.50
13	E9	1001	CYC	C3C-C4C	-2.15	1.47	1.50
13	R9	1001	CYC	C4B-NB	-2.15	1.33	1.38
13	09	1201	CYC	C4C-NC	-2.14	1.32	1.37
13	k8	1001	CYC	C1B-C2B	2.14	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A9	1001	CYC	C4B-NB	-2.14	1.33	1.38
13	u9	1001	CYC	C4B-NB	-2.14	1.33	1.38
13	f9	1001	CYC	C4B-NB	-2.14	1.33	1.38
13	E1	201	CYC	OB-C4B	2.14	1.27	1.23
13	d9	1001	CYC	C3C-C4C	-2.14	1.47	1.50
13	f9	1001	CYC	C3C-C4C	-2.14	1.47	1.50
13	H8	1001	CYC	C1B-NB	-2.14	1.34	1.37
13	09	1201	CYC	C1B-C2B	2.14	1.49	1.45
13	Z9	1001	CYC	C3C-C4C	-2.14	1.47	1.50
13	19	1204	CYC	C1D-CHD	2.14	1.49	1.41
13	I8	1001	CYC	C1B-C2B	2.14	1.49	1.45
13	n8	1001	CYC	C1B-NB	-2.14	1.34	1.37
13	y9	1001	CYC	C4B-NB	-2.14	1.33	1.38
13	E3	201	CYC	C4A-C3A	2.14	1.50	1.45
13	s9	1001	CYC	C4A-C3A	2.14	1.50	1.45
13	s9	1001	CYC	C3C-C4C	-2.13	1.47	1.50
13	X9	1001	CYC	C4B-NB	-2.13	1.33	1.38
13	E9	1001	CYC	C4B-NB	-2.13	1.33	1.38
13	09	1202	CYC	C4A-C3A	2.13	1.50	1.45
13	N9	1001	CYC	C4B-NB	-2.13	1.33	1.38
13	i9	1001	CYC	C4B-NB	-2.13	1.33	1.38
13	E7	201	CYC	C4A-C3A	2.13	1.50	1.45
13	G9	1001	CYC	C3C-C4C	-2.13	1.47	1.50
13	C9	1001	CYC	C4B-NB	-2.13	1.33	1.38
13	o9	1001	CYC	C4B-NB	-2.13	1.33	1.38
13	w9	1001	CYC	C4B-NB	-2.13	1.33	1.38
13	09	1203	CYC	C1D-CHD	2.12	1.49	1.41
13	f9	1001	CYC	C4A-C3A	2.12	1.50	1.45
13	19	1203	CYC	C1D-CHD	2.12	1.49	1.41
13	E6	201	CYC	C4C-NC	-2.12	1.32	1.37
13	H9	1001	CYC	C1D-CHD	2.12	1.49	1.41
13	o9	1001	CYC	C3C-C4C	-2.12	1.47	1.50
13	y9	1001	CYC	C3C-C4C	-2.12	1.47	1.50
13	G9	1001	CYC	C4B-NB	-2.12	1.33	1.38
13	Z5	201	CYC	C1C-NC	-2.12	1.34	1.37
13	O9	1001	CYC	C1D-CHD	2.12	1.49	1.41
13	G9	1001	CYC	C4A-C3A	2.12	1.50	1.45
13	u9	1001	CYC	C3C-C4C	-2.12	1.47	1.50
13	z9	1001	CYC	C1D-CHD	2.12	1.49	1.41
13	AA	302	CYC	C4A-C3A	2.11	1.50	1.45
13	e9	1001	CYC	C1D-CHD	2.11	1.49	1.41
13	l9	1001	CYC	C1D-CHD	2.11	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	c9	1001	CYC	C1D-CHD	2.11	1.49	1.41
13	t9	1001	CYC	C1D-CHD	2.11	1.49	1.41
13	P9	1001	CYC	C4A-C3A	2.11	1.50	1.45
13	D9	1001	CYC	C1D-CHD	2.11	1.49	1.41
13	F9	1001	CYC	C1D-CHD	2.11	1.49	1.41
13	K9	1001	CYC	C4A-C3A	2.11	1.50	1.45
13	AA	301	CYC	C4A-C3A	2.11	1.50	1.45
13	29	1001	CYC	C1D-CHD	2.11	1.49	1.41
13	19	1205	CYC	C1D-CHD	2.11	1.49	1.41
13	x9	1001	CYC	C1D-CHD	2.11	1.49	1.41
13	p9	1001	CYC	C1D-CHD	2.11	1.49	1.41
13	r9	1001	CYC	C1D-CHD	2.11	1.49	1.41
13	J9	1001	CYC	C1D-CHD	2.11	1.49	1.41
13	E2	201	CYC	C4A-C3A	2.11	1.50	1.45
13	E3	201	CYC	OB-C4B	2.11	1.27	1.23
13	o9	1001	CYC	C4A-C3A	2.11	1.50	1.45
13	q9	1001	CYC	C4A-C3A	2.11	1.50	1.45
13	T9	1001	CYC	C4A-C3A	2.11	1.50	1.45
13	v9	1001	CYC	C1D-CHD	2.11	1.49	1.41
13	A9	1001	CYC	C4A-C3A	2.11	1.50	1.45
13	B9	1001	CYC	C1D-CHD	2.10	1.49	1.41
13	A5	301	CYC	C4A-C3A	2.10	1.50	1.45
13	X9	1001	CYC	C4A-C3A	2.10	1.50	1.45
13	U9	1001	CYC	C1D-CHD	2.10	1.49	1.41
13	m9	201	CYC	C1D-CHD	2.10	1.49	1.41
13	E4	201	CYC	C4C-NC	-2.10	1.32	1.37
13	S9	1001	CYC	C1D-CHD	2.10	1.49	1.41
13	09	1202	CYC	C4C-NC	-2.10	1.32	1.37
13	39	1001	CYC	C1D-CHD	2.10	1.49	1.41
13	k9	1001	CYC	C4A-C3A	2.10	1.50	1.45
13	ZA	201	CYC	C1C-NC	-2.10	1.34	1.37
13	T8	1001	CYC	C1B-C2B	2.10	1.48	1.45
13	i9	1001	CYC	C4A-C3A	2.10	1.50	1.45
13	19	1202	CYC	C1A-NA	-2.10	1.34	1.38
13	L9	1001	CYC	C1D-CHD	2.10	1.49	1.41
13	R9	1001	CYC	C4A-C3A	2.10	1.50	1.45
13	E7	201	CYC	OB-C4B	2.10	1.27	1.23
13	j9	1001	CYC	C1D-CHD	2.10	1.49	1.41
13	I9	1001	CYC	C4A-C3A	2.10	1.50	1.45
13	w9	1001	CYC	C4A-C3A	2.10	1.50	1.45
13	u9	1001	CYC	C4A-C3A	2.10	1.50	1.45
13	E4	201	CYC	OB-C4B	2.09	1.27	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A5	302	CYC	C4A-C3A	2.09	1.50	1.45
13	V9	201	CYC	C1D-CHD	2.09	1.49	1.41
13	d9	1001	CYC	C4A-C3A	2.09	1.50	1.45
13	E1	201	CYC	C4C-NC	-2.09	1.33	1.37
13	A5	302	CYC	C4C-NC	-2.08	1.33	1.37
13	E6	201	CYC	OB-C4B	2.08	1.27	1.23
13	E9	1001	CYC	C4A-C3A	2.08	1.50	1.45
13	E2	201	CYC	OB-C4B	2.08	1.27	1.23
13	m9	201	CYC	C4B-NB	-2.08	1.33	1.38
13	AA	302	CYC	C4C-NC	-2.08	1.33	1.37
13	y9	1001	CYC	C4A-C3A	2.08	1.50	1.45
13	19	1202	CYC	C1D-CHD	2.08	1.49	1.41
13	H8	1001	CYC	C1D-CHD	2.08	1.49	1.41
13	E2	201	CYC	C4C-NC	-2.08	1.33	1.37
13	AA	301	CYC	OB-C4B	2.07	1.27	1.23
13	E6	201	CYC	C4A-C3A	2.07	1.50	1.45
13	l8	1001	CYC	C1D-CHD	2.07	1.49	1.41
13	Z9	1001	CYC	C4A-C3A	2.07	1.50	1.45
13	A5	301	CYC	OB-C4B	2.07	1.27	1.23
13	V1	202	CYC	C1D-CHD	2.07	1.49	1.41
13	Y2	201	CYC	C1D-CHD	2.07	1.49	1.41
13	Y6	201	CYC	C1D-CHD	2.07	1.49	1.41
13	C9	1001	CYC	C4A-C3A	2.07	1.50	1.45
13	N9	1001	CYC	C4A-C3A	2.07	1.50	1.45
13	Q8	1001	CYC	C1D-CHD	2.07	1.49	1.41
13	O8	1001	CYC	C1D-CHD	2.07	1.49	1.41
13	V9	201	CYC	C4B-NB	-2.07	1.33	1.38
13	AA	302	CYC	OB-C4B	2.07	1.27	1.23
13	V8	1001	CYC	C1D-CHD	2.07	1.49	1.41
13	t8	1001	CYC	C1D-CHD	2.06	1.49	1.41
13	S8	1001	CYC	C1D-CHD	2.06	1.49	1.41
13	L6	201	CYC	C1D-CHD	2.06	1.49	1.41
13	E8	1001	CYC	C1D-CHD	2.06	1.49	1.41
13	g8	1001	CYC	C1D-CHD	2.06	1.49	1.41
13	A8	1001	CYC	C1D-CHD	2.06	1.49	1.41
13	YA	201	CYC	C1D-CHD	2.06	1.49	1.41
13	U1	1001	CYC	C1D-CHD	2.06	1.49	1.41
13	A5	301	CYC	C4C-NC	-2.06	1.33	1.37
13	j8	1001	CYC	C1D-CHD	2.06	1.49	1.41
13	E4	201	CYC	C4A-C3A	2.06	1.50	1.45
13	G6	202	CYC	C1D-CHD	2.06	1.49	1.41
13	L8	1001	CYC	C1D-CHD	2.06	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	e8	1001	CYC	C1D-CHD	2.06	1.49	1.41
13	Z8	1001	CYC	C1D-CHD	2.06	1.49	1.41
13	b9	1001	CYC	C4A-C3A	2.06	1.50	1.45
13	n8	1001	CYC	C1D-CHD	2.06	1.49	1.41
13	p8	1001	CYC	C1D-CHD	2.06	1.49	1.41
13	A5	303	CYC	C1A-C2A	2.06	1.49	1.45
13	X8	1001	CYC	C1D-CHD	2.05	1.49	1.41
13	A5	302	CYC	OB-C4B	2.05	1.27	1.23
13	09	1202	CYC	C1A-NA	-2.05	1.34	1.38
13	E7	201	CYC	C4C-NC	-2.05	1.33	1.37
13	L2	201	CYC	C1D-CHD	2.05	1.49	1.41
13	W6	202	CYC	C1D-CHD	2.05	1.49	1.41
13	S6	1001	CYC	C1D-CHD	2.05	1.49	1.41
13	V6	202	CYC	C1D-CHD	2.05	1.49	1.41
13	E6	201	CYC	C4D-CHA	2.05	1.49	1.41
13	L5	201	CYC	C1D-CHD	2.05	1.49	1.41
13	C8	1001	CYC	C1D-CHD	2.05	1.49	1.41
13	W2	202	CYC	C1D-CHD	2.05	1.49	1.41
13	N2	302	CYC	C1D-CHD	2.05	1.49	1.41
13	E1	201	CYC	C4A-C3A	2.05	1.50	1.45
13	J8	1001	CYC	C1D-CHD	2.05	1.49	1.41
13	c8	1001	CYC	C1D-CHD	2.05	1.49	1.41
13	AA	303	CYC	C1A-C2A	2.05	1.49	1.45
13	F4	1001	CYC	C1D-CHD	2.05	1.49	1.41
13	U4	1001	CYC	C1D-CHD	2.05	1.49	1.41
13	J2	1001	CYC	C1D-CHD	2.05	1.49	1.41
13	UA	1001	CYC	C1D-CHD	2.05	1.49	1.41
13	V4	202	CYC	C1D-CHD	2.05	1.49	1.41
13	F7	1001	CYC	C1D-CHD	2.05	1.49	1.41
13	T1	202	CYC	C1D-CHD	2.05	1.49	1.41
13	L1	201	CYC	C1D-CHD	2.05	1.49	1.41
13	Z4	202	CYC	C1D-CHD	2.04	1.49	1.41
13	D2	1001	CYC	C1D-CHD	2.04	1.49	1.41
13	L4	201	CYC	C1D-CHD	2.04	1.49	1.41
13	F2	1001	CYC	C1D-CHD	2.04	1.49	1.41
13	F3	1001	CYC	C1D-CHD	2.04	1.49	1.41
13	U2	202	CYC	C1D-CHD	2.04	1.49	1.41
13	C1	301	CYC	C1D-CHD	2.04	1.49	1.41
13	F6	1001	CYC	C1D-CHD	2.04	1.49	1.41
13	T4	202	CYC	C1D-CHD	2.04	1.49	1.41
13	Y1	201	CYC	C1D-CHD	2.04	1.49	1.41
13	R6	1001	CYC	C1D-CHD	2.04	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	Y4	201	CYC	C1D-CHD	2.04	1.49	1.41
13	Q6	201	CYC	C1D-CHD	2.04	1.49	1.41
13	E3	201	CYC	C4D-CHA	2.04	1.49	1.41
13	E7	201	CYC	C4D-CHA	2.04	1.49	1.41
13	U6	202	CYC	C1D-CHD	2.04	1.49	1.41
13	g9	1001	CYC	C1D-CHD	2.04	1.49	1.41
13	AA	301	CYC	C4C-NC	-2.04	1.33	1.37
13	V2	202	CYC	C1D-CHD	2.04	1.49	1.41
13	J7	1001	CYC	C1D-CHD	2.04	1.49	1.41
13	S2	1001	CYC	C1D-CHD	2.04	1.49	1.41
13	A5	301	CYC	C4D-CHA	2.04	1.49	1.41
13	JA	1001	CYC	C1D-CHD	2.04	1.49	1.41
13	C4	301	CYC	C1D-CHD	2.03	1.49	1.41
13	O6	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	Z1	202	CYC	C1D-CHD	2.03	1.49	1.41
13	U5	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	D6	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	R2	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	J3	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	C6	201	CYC	C1D-CHD	2.03	1.49	1.41
13	L7	201	CYC	C1D-CHD	2.03	1.49	1.41
13	W1	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	Z2	202	CYC	C1D-CHD	2.03	1.49	1.41
13	r8	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	Y5	201	CYC	C1D-CHD	2.03	1.49	1.41
13	O2	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	H1	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	L3	201	CYC	C1D-CHD	2.03	1.49	1.41
13	G4	202	CYC	C1D-CHD	2.03	1.49	1.41
13	W4	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	LA	201	CYC	C1D-CHD	2.03	1.49	1.41
13	B1	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	R4	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	WA	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	E3	201	CYC	C4C-NC	-2.03	1.33	1.37
13	E1	201	CYC	C4D-CHA	2.03	1.49	1.41
13	J6	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	D7	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	G2	202	CYC	C1D-CHD	2.03	1.49	1.41
13	D5	1001	CYC	C1D-CHD	2.03	1.49	1.41
13	J4	1001	CYC	C1D-CHD	2.02	1.49	1.41
13	M5	1001	CYC	C1D-CHD	2.02	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	D4	1001	CYC	C1D-CHD	2.02	1.49	1.41
13	N6	302	CYC	C1D-CHD	2.02	1.49	1.41
13	Z6	202	CYC	C1D-CHD	2.02	1.48	1.41
13	E5	202	CYC	C1D-CHD	2.02	1.48	1.41
13	C2	201	CYC	C1D-CHD	2.02	1.48	1.41
13	G7	201	CYC	C1D-CHD	2.02	1.48	1.41
13	DA	1001	CYC	C1D-CHD	2.02	1.48	1.41
13	Q1	201	CYC	C1D-CHD	2.02	1.48	1.41
13	E2	201	CYC	C4D-CHA	2.02	1.48	1.41
13	D3	1001	CYC	C1D-CHD	2.02	1.48	1.41
13	EA	202	CYC	C1D-CHD	2.02	1.48	1.41
13	S4	1001	CYC	C1D-CHD	2.02	1.48	1.41
13	S1	1001	CYC	C1D-CHD	2.02	1.48	1.41
13	Q2	201	CYC	C1D-CHD	2.02	1.48	1.41
13	SA	1001	CYC	C1D-CHD	2.02	1.48	1.41
13	MA	1001	CYC	C1D-CHD	2.02	1.48	1.41
13	J5	1001	CYC	C1D-CHD	2.02	1.48	1.41
13	D1	1001	CYC	C1D-CHD	2.02	1.48	1.41
13	N5	301	CYC	C1A-C2A	2.01	1.48	1.45
13	F1	1001	CYC	C1D-CHD	2.01	1.48	1.41
13	G3	201	CYC	C1D-CHD	2.01	1.48	1.41
13	PA	203	CYC	C1D-CHD	2.01	1.48	1.41
13	GA	1001	CYC	C1D-CHD	2.01	1.48	1.41
13	Q4	201	CYC	C1D-CHD	2.01	1.48	1.41
13	O4	1001	CYC	C1D-CHD	2.01	1.48	1.41
13	W5	1001	CYC	C1D-CHD	2.01	1.48	1.41
13	OA	1001	CYC	C1D-CHD	2.01	1.48	1.41
13	B4	1001	CYC	C1D-CHD	2.01	1.48	1.41
13	J1	1001	CYC	C1D-CHD	2.01	1.48	1.41
13	R1	1001	CYC	C1D-CHD	2.01	1.48	1.41
13	B5	1001	CYC	C1D-CHD	2.01	1.48	1.41
13	H1	1001	CYC	C4A-C3A	2.01	1.50	1.45
13	B3	1001	CYC	C1D-CHD	2.01	1.48	1.41
13	NA	301	CYC	C1A-C2A	2.01	1.48	1.45
13	AA	301	CYC	C4D-CHA	2.01	1.48	1.41
13	J9	1001	CYC	O1A-CGA	2.01	1.28	1.22
13	E4	201	CYC	C4D-CHA	2.01	1.48	1.41
13	A5	302	CYC	C4D-CHA	2.01	1.48	1.41
13	AA	302	CYC	C4D-CHA	2.00	1.48	1.41
13	H9	1001	CYC	O1A-CGA	2.00	1.28	1.22
13	G1	202	CYC	C1D-CHD	2.00	1.48	1.41
13	O5	1001	CYC	C1D-CHD	2.00	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B6	1001	CYC	C1D-CHD	2.00	1.48	1.41

All (5529) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	39	1001	CYC	C3B-C4B-NB	16.45	120.07	106.78
13	c9	1001	CYC	C3B-C4B-NB	16.43	120.05	106.78
13	z9	1001	CYC	C3B-C4B-NB	16.42	120.05	106.78
13	09	1203	CYC	C3B-C4B-NB	16.42	120.05	106.78
13	19	1205	CYC	C3B-C4B-NB	16.42	120.05	106.78
13	v9	1001	CYC	C3B-C4B-NB	16.41	120.04	106.78
13	F9	1001	CYC	C3B-C4B-NB	16.40	120.03	106.78
13	S9	1001	CYC	C3B-C4B-NB	16.40	120.03	106.78
13	L9	1001	CYC	C3B-C4B-NB	16.40	120.03	106.78
13	H9	1001	CYC	C3B-C4B-NB	16.39	120.02	106.78
13	r9	1001	CYC	C3B-C4B-NB	16.38	120.01	106.78
13	x9	1001	CYC	C3B-C4B-NB	16.38	120.01	106.78
13	19	1204	CYC	C3B-C4B-NB	16.37	120.01	106.78
13	B9	1001	CYC	C3B-C4B-NB	16.37	120.01	106.78
13	J9	1001	CYC	C3B-C4B-NB	16.37	120.01	106.78
13	p9	1001	CYC	C3B-C4B-NB	16.37	120.00	106.78
13	j9	1001	CYC	C3B-C4B-NB	16.37	120.00	106.78
13	O9	1001	CYC	C3B-C4B-NB	16.36	120.00	106.78
13	U9	1001	CYC	C3B-C4B-NB	16.34	119.98	106.78
13	l9	1001	CYC	C3B-C4B-NB	16.34	119.98	106.78
13	19	1203	CYC	C3B-C4B-NB	16.34	119.98	106.78
13	t9	1001	CYC	C3B-C4B-NB	16.33	119.97	106.78
13	D9	1001	CYC	C3B-C4B-NB	16.32	119.96	106.78
13	29	1001	CYC	C3B-C4B-NB	16.31	119.96	106.78
13	e9	1001	CYC	C3B-C4B-NB	16.30	119.95	106.78
13	19	1202	CYC	C3B-C4B-NB	13.25	117.48	106.78
13	l9	1001	CYC	O2A-CGA-O1A	-12.48	92.19	123.30
13	19	1205	CYC	O2A-CGA-O1A	-12.48	92.20	123.30
13	J9	1001	CYC	O2A-CGA-O1A	-12.47	92.22	123.30
13	c9	1001	CYC	O2A-CGA-O1A	-12.47	92.22	123.30
13	19	1203	CYC	O2A-CGA-O1A	-12.47	92.22	123.30
13	39	1001	CYC	O2A-CGA-O1A	-12.47	92.22	123.30
13	O9	1001	CYC	O2A-CGA-O1A	-12.47	92.22	123.30
13	S9	1001	CYC	O2A-CGA-O1A	-12.46	92.23	123.30
13	j9	1001	CYC	O2A-CGA-O1A	-12.46	92.24	123.30
13	e9	1001	CYC	O2A-CGA-O1A	-12.46	92.25	123.30
13	L9	1001	CYC	O2A-CGA-O1A	-12.46	92.25	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	H9	1001	CYC	O2A-CGA-O1A	-12.46	92.25	123.30
13	v9	1001	CYC	O2A-CGA-O1A	-12.46	92.25	123.30
13	B9	1001	CYC	O2A-CGA-O1A	-12.46	92.25	123.30
13	x9	1001	CYC	O2A-CGA-O1A	-12.45	92.26	123.30
13	p9	1001	CYC	O2A-CGA-O1A	-12.45	92.26	123.30
13	F9	1001	CYC	O2A-CGA-O1A	-12.45	92.26	123.30
13	r9	1001	CYC	O2A-CGA-O1A	-12.45	92.26	123.30
13	19	1204	CYC	O2A-CGA-O1A	-12.45	92.27	123.30
13	U9	1001	CYC	O2A-CGA-O1A	-12.45	92.28	123.30
13	D9	1001	CYC	O2A-CGA-O1A	-12.45	92.28	123.30
13	29	1001	CYC	O2A-CGA-O1A	-12.44	92.29	123.30
13	z9	1001	CYC	O2A-CGA-O1A	-12.44	92.29	123.30
13	t9	1001	CYC	O2A-CGA-O1A	-12.44	92.30	123.30
13	09	1203	CYC	O2A-CGA-O1A	-12.43	92.31	123.30
13	V9	201	CYC	C3B-C4B-NB	11.78	116.30	106.78
13	m9	201	CYC	C3B-C4B-NB	11.73	116.26	106.78
13	AA	301	CYC	C3B-C4B-NB	11.47	116.05	106.78
13	E1	201	CYC	C3B-C4B-NB	11.43	116.01	106.78
13	A5	301	CYC	C3B-C4B-NB	11.43	116.01	106.78
13	R9	1001	CYC	C3B-C4B-NB	11.42	116.00	106.78
13	E4	201	CYC	C3B-C4B-NB	11.41	116.00	106.78
13	d9	1001	CYC	C3B-C4B-NB	11.40	115.99	106.78
13	q9	1001	CYC	C3B-C4B-NB	11.40	115.98	106.78
13	u9	1001	CYC	C3B-C4B-NB	11.40	115.98	106.78
13	k9	1001	CYC	C3B-C4B-NB	11.39	115.98	106.78
13	G9	1001	CYC	C3B-C4B-NB	11.39	115.98	106.78
13	i9	1001	CYC	C3B-C4B-NB	11.38	115.97	106.78
13	C9	1001	CYC	C3B-C4B-NB	11.38	115.97	106.78
13	Z9	1001	CYC	C3B-C4B-NB	11.38	115.97	106.78
13	s9	1001	CYC	C3B-C4B-NB	11.38	115.97	106.78
13	E6	201	CYC	C3B-C4B-NB	11.38	115.97	106.78
13	I9	1001	CYC	C3B-C4B-NB	11.37	115.97	106.78
13	f9	1001	CYC	C3B-C4B-NB	11.37	115.97	106.78
13	o9	1001	CYC	C3B-C4B-NB	11.37	115.96	106.78
13	K9	1001	CYC	C3B-C4B-NB	11.37	115.96	106.78
13	E3	201	CYC	C3B-C4B-NB	11.36	115.96	106.78
13	E9	1001	CYC	C3B-C4B-NB	11.36	115.96	106.78
13	y9	1001	CYC	C3B-C4B-NB	11.36	115.96	106.78
13	N9	1001	CYC	C3B-C4B-NB	11.35	115.95	106.78
13	AA	302	CYC	C3B-C4B-NB	11.35	115.95	106.78
13	A9	1001	CYC	C3B-C4B-NB	11.34	115.94	106.78
13	P9	1001	CYC	C3B-C4B-NB	11.34	115.94	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	b9	1001	CYC	C3B-C4B-NB	11.34	115.94	106.78
13	T9	1001	CYC	C3B-C4B-NB	11.34	115.94	106.78
13	E7	201	CYC	C3B-C4B-NB	11.33	115.94	106.78
13	X8	1001	CYC	C3B-C4B-NB	11.33	115.93	106.78
13	A5	302	CYC	C3B-C4B-NB	11.32	115.92	106.78
13	r8	1001	CYC	C3B-C4B-NB	11.30	115.91	106.78
13	X9	1001	CYC	C3B-C4B-NB	11.30	115.91	106.78
13	w9	1001	CYC	C3B-C4B-NB	11.29	115.90	106.78
13	t8	1001	CYC	C3B-C4B-NB	11.29	115.90	106.78
13	E2	201	CYC	C3B-C4B-NB	11.29	115.90	106.78
13	A8	1001	CYC	C3B-C4B-NB	11.29	115.90	106.78
13	j8	1001	CYC	C3B-C4B-NB	11.29	115.90	106.78
13	V8	1001	CYC	C3B-C4B-NB	11.29	115.90	106.78
13	Z8	1001	CYC	C3B-C4B-NB	11.28	115.89	106.78
13	c8	1001	CYC	C3B-C4B-NB	11.28	115.89	106.78
13	e8	1001	CYC	C3B-C4B-NB	11.27	115.89	106.78
13	n8	1001	CYC	C3B-C4B-NB	11.27	115.89	106.78
13	H8	1001	CYC	C3B-C4B-NB	11.27	115.89	106.78
13	C8	1001	CYC	C3B-C4B-NB	11.27	115.88	106.78
13	L8	1001	CYC	C3B-C4B-NB	11.27	115.88	106.78
13	g8	1001	CYC	C3B-C4B-NB	11.26	115.88	106.78
13	l8	1001	CYC	C3B-C4B-NB	11.26	115.87	106.78
13	E8	1001	CYC	C3B-C4B-NB	11.25	115.87	106.78
13	O8	1001	CYC	C3B-C4B-NB	11.25	115.87	106.78
13	p8	1001	CYC	C3B-C4B-NB	11.24	115.86	106.78
13	S8	1001	CYC	C3B-C4B-NB	11.24	115.86	106.78
13	Q8	1001	CYC	C3B-C4B-NB	11.20	115.83	106.78
13	J8	1001	CYC	C3B-C4B-NB	11.20	115.83	106.78
13	09	1202	CYC	C3B-C4B-NB	11.20	115.83	106.78
13	g9	1001	CYC	C3B-C4B-NB	10.87	115.56	106.78
13	B7	1001	CYC	C3B-C4B-NB	10.74	115.45	106.78
13	B3	1001	CYC	C3B-C4B-NB	10.72	115.44	106.78
13	B6	1001	CYC	C3B-C4B-NB	10.68	115.41	106.78
13	X1	201	CYC	C3B-C4B-NB	10.67	115.40	106.78
13	X5	201	CYC	C3B-C4B-NB	10.66	115.39	106.78
13	X4	201	CYC	C3B-C4B-NB	10.65	115.38	106.78
13	Q6	201	CYC	C3B-C4B-NB	10.65	115.38	106.78
13	B4	1001	CYC	C3B-C4B-NB	10.65	115.38	106.78
13	XA	201	CYC	C3B-C4B-NB	10.65	115.38	106.78
13	B2	1001	CYC	C3B-C4B-NB	10.64	115.38	106.78
13	NA	301	CYC	C3B-C4B-NB	10.63	115.36	106.78
13	X2	201	CYC	C3B-C4B-NB	10.63	115.36	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	R1	1001	CYC	C3B-C4B-NB	10.62	115.36	106.78
13	AA	304	CYC	C3B-C4B-NB	10.61	115.35	106.78
13	X6	201	CYC	C3B-C4B-NB	10.61	115.35	106.78
13	R2	1001	CYC	C3B-C4B-NB	10.60	115.34	106.78
13	L1	201	CYC	C3B-C4B-NB	10.60	115.34	106.78
13	D3	1001	CYC	C3B-C4B-NB	10.59	115.34	106.78
13	R4	1001	CYC	C3B-C4B-NB	10.58	115.33	106.78
13	Z6	202	CYC	C3B-C4B-NB	10.58	115.33	106.78
13	F7	1001	CYC	C3B-C4B-NB	10.58	115.32	106.78
13	Q2	201	CYC	C3B-C4B-NB	10.57	115.32	106.78
13	B1	1001	CYC	C3B-C4B-NB	10.57	115.32	106.78
13	Y6	201	CYC	C3B-C4B-NB	10.57	115.32	106.78
13	L2	201	CYC	C3B-C4B-NB	10.57	115.32	106.78
13	G3	201	CYC	C3B-C4B-NB	10.57	115.32	106.78
13	V5	201	CYC	C3B-C4B-NB	10.57	115.32	106.78
13	V6	202	CYC	C3B-C4B-NB	10.57	115.32	106.78
13	R6	1001	CYC	C3B-C4B-NB	10.57	115.31	106.78
13	D7	1001	CYC	C3B-C4B-NB	10.57	115.31	106.78
13	L6	201	CYC	C3B-C4B-NB	10.56	115.31	106.78
13	G6	202	CYC	C3B-C4B-NB	10.56	115.31	106.78
13	L3	201	CYC	C3B-C4B-NB	10.56	115.31	106.78
13	V2	202	CYC	C3B-C4B-NB	10.56	115.31	106.78
13	N6	302	CYC	C3B-C4B-NB	10.56	115.31	106.78
13	Z2	202	CYC	C3B-C4B-NB	10.55	115.30	106.78
13	Q9	201	CYC	C3B-C4B-NB	10.55	115.30	106.78
13	L4	201	CYC	C3B-C4B-NB	10.55	115.30	106.78
13	N5	301	CYC	C3B-C4B-NB	10.55	115.30	106.78
13	A5	304	CYC	C3B-C4B-NB	10.54	115.30	106.78
13	N2	302	CYC	C3B-C4B-NB	10.54	115.29	106.78
13	F3	1001	CYC	C3B-C4B-NB	10.54	115.29	106.78
13	I6	201	CYC	C3B-C4B-NB	10.54	115.29	106.78
13	P5	203	CYC	C3B-C4B-NB	10.54	115.29	106.78
13	G2	202	CYC	C3B-C4B-NB	10.53	115.29	106.78
13	W4	1001	CYC	C3B-C4B-NB	10.53	115.29	106.78
13	G7	201	CYC	C3B-C4B-NB	10.53	115.29	106.78
13	VA	201	CYC	C3B-C4B-NB	10.53	115.29	106.78
13	L7	201	CYC	C3B-C4B-NB	10.53	115.28	106.78
13	Y2	201	CYC	C3B-C4B-NB	10.53	115.28	106.78
13	Q4	201	CYC	C3B-C4B-NB	10.52	115.28	106.78
13	W2	202	CYC	C3B-C4B-NB	10.52	115.28	106.78
13	D6	1001	CYC	C3B-C4B-NB	10.52	115.28	106.78
13	C6	201	CYC	C3B-C4B-NB	10.52	115.28	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	W1	1001	CYC	C3B-C4B-NB	10.51	115.27	106.78
13	W6	202	CYC	C3B-C4B-NB	10.51	115.27	106.78
13	I2	201	CYC	C3B-C4B-NB	10.51	115.27	106.78
13	D2	1001	CYC	C3B-C4B-NB	10.51	115.27	106.78
13	J5	1001	CYC	C3B-C4B-NB	10.51	115.27	106.78
13	G1	202	CYC	C3B-C4B-NB	10.50	115.27	106.78
13	M5	1001	CYC	C3B-C4B-NB	10.50	115.27	106.78
13	GA	1001	CYC	C3B-C4B-NB	10.50	115.26	106.78
13	G4	202	CYC	C3B-C4B-NB	10.50	115.26	106.78
13	O4	1001	CYC	C3B-C4B-NB	10.50	115.26	106.78
13	V1	202	CYC	C3B-C4B-NB	10.50	115.26	106.78
13	F2	1001	CYC	C3B-C4B-NB	10.50	115.26	106.78
13	Q1	201	CYC	C3B-C4B-NB	10.49	115.25	106.78
13	PA	203	CYC	C3B-C4B-NB	10.49	115.25	106.78
13	B5	1001	CYC	C3B-C4B-NB	10.49	115.25	106.78
13	T5	201	CYC	C3B-C4B-NB	10.49	115.25	106.78
13	U5	1001	CYC	C3B-C4B-NB	10.49	115.25	106.78
13	L5	201	CYC	C3B-C4B-NB	10.48	115.25	106.78
13	V4	202	CYC	C3B-C4B-NB	10.48	115.25	106.78
13	IA	201	CYC	C3B-C4B-NB	10.48	115.25	106.78
13	J2	1001	CYC	C3B-C4B-NB	10.48	115.24	106.78
13	Y5	201	CYC	C3B-C4B-NB	10.48	115.24	106.78
13	LA	201	CYC	C3B-C4B-NB	10.48	115.24	106.78
13	D5	1001	CYC	C3B-C4B-NB	10.48	115.24	106.78
13	UA	1001	CYC	C3B-C4B-NB	10.47	115.24	106.78
13	Z4	202	CYC	C3B-C4B-NB	10.47	115.24	106.78
13	I5	201	CYC	C3B-C4B-NB	10.47	115.24	106.78
13	J6	1001	CYC	C3B-C4B-NB	10.47	115.24	106.78
13	MA	1001	CYC	C3B-C4B-NB	10.47	115.24	106.78
13	D1	1001	CYC	C3B-C4B-NB	10.47	115.23	106.78
13	C4	301	CYC	C3B-C4B-NB	10.47	115.23	106.78
13	J4	1001	CYC	C3B-C4B-NB	10.46	115.23	106.78
13	F6	1001	CYC	C3B-C4B-NB	10.46	115.23	106.78
13	WA	1001	CYC	C3B-C4B-NB	10.46	115.23	106.78
13	J1	1001	CYC	C3B-C4B-NB	10.46	115.23	106.78
13	T1	202	CYC	C3B-C4B-NB	10.46	115.23	106.78
13	JA	1001	CYC	C3B-C4B-NB	10.46	115.23	106.78
13	O1	1001	CYC	C3B-C4B-NB	10.46	115.23	106.78
13	E5	202	CYC	C3B-C4B-NB	10.46	115.23	106.78
13	O5	1001	CYC	C3B-C4B-NB	10.46	115.23	106.78
13	T4	202	CYC	C3B-C4B-NB	10.45	115.22	106.78
13	J7	1001	CYC	C3B-C4B-NB	10.45	115.22	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	DA	1001	CYC	C3B-C4B-NB	10.45	115.22	106.78
13	C1	301	CYC	C3B-C4B-NB	10.45	115.22	106.78
13	Y1	201	CYC	C3B-C4B-NB	10.44	115.22	106.78
13	TA	201	CYC	C3B-C4B-NB	10.44	115.21	106.78
13	C2	201	CYC	C3B-C4B-NB	10.44	115.21	106.78
13	W5	1001	CYC	C3B-C4B-NB	10.44	115.21	106.78
13	O6	1001	CYC	C3B-C4B-NB	10.44	115.21	106.78
13	EA	202	CYC	C3B-C4B-NB	10.44	115.21	106.78
13	F4	1001	CYC	C3B-C4B-NB	10.43	115.20	106.78
13	H1	1001	CYC	C3B-C4B-NB	10.43	115.20	106.78
13	O2	1001	CYC	C3B-C4B-NB	10.43	115.20	106.78
13	J3	1001	CYC	C3B-C4B-NB	10.42	115.20	106.78
13	U4	1001	CYC	C3B-C4B-NB	10.42	115.20	106.78
13	Y4	201	CYC	C3B-C4B-NB	10.42	115.20	106.78
13	D4	1001	CYC	C3B-C4B-NB	10.42	115.19	106.78
13	YA	201	CYC	C3B-C4B-NB	10.41	115.19	106.78
13	F1	1001	CYC	C3B-C4B-NB	10.41	115.19	106.78
13	S2	1001	CYC	C3B-C4B-NB	10.41	115.19	106.78
13	SA	1001	CYC	C3B-C4B-NB	10.41	115.19	106.78
13	I7	201	CYC	C3B-C4B-NB	10.40	115.18	106.78
13	S6	1001	CYC	C3B-C4B-NB	10.40	115.18	106.78
13	I3	201	CYC	C3B-C4B-NB	10.40	115.18	106.78
13	ZA	201	CYC	C3B-C4B-NB	10.38	115.17	106.78
13	U2	202	CYC	C3B-C4B-NB	10.38	115.17	106.78
13	A3	301	CYC	C3B-C4B-NB	10.38	115.17	106.78
13	I1	201	CYC	C3B-C4B-NB	10.38	115.16	106.78
13	Z1	202	CYC	C3B-C4B-NB	10.38	115.16	106.78
13	A7	301	CYC	C3B-C4B-NB	10.38	115.16	106.78
13	OA	1001	CYC	C3B-C4B-NB	10.38	115.16	106.78
13	I4	201	CYC	C3B-C4B-NB	10.37	115.15	106.78
13	H4	1001	CYC	C3B-C4B-NB	10.37	115.15	106.78
13	Z5	201	CYC	C3B-C4B-NB	10.36	115.15	106.78
13	U6	202	CYC	C3B-C4B-NB	10.36	115.15	106.78
13	S4	1001	CYC	C3B-C4B-NB	10.36	115.14	106.78
13	U1	1001	CYC	C3B-C4B-NB	10.36	115.14	106.78
13	S5	1001	CYC	C3B-C4B-NB	10.35	115.14	106.78
13	A5	303	CYC	C3B-C4B-NB	10.34	115.13	106.78
13	S1	1001	CYC	C3B-C4B-NB	10.32	115.11	106.78
13	H2	1001	CYC	C3B-C4B-NB	10.31	115.10	106.78
13	H7	1001	CYC	C3B-C4B-NB	10.28	115.08	106.78
13	AA	303	CYC	C3B-C4B-NB	10.27	115.08	106.78
13	H3	1001	CYC	C3B-C4B-NB	10.27	115.07	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	H6	1001	CYC	C3B-C4B-NB	10.27	115.07	106.78
13	d8	1001	CYC	C3B-C4B-NB	9.60	114.53	106.78
13	K8	1001	CYC	C3B-C4B-NB	9.60	114.53	106.78
13	q8	1001	CYC	C3B-C4B-NB	9.60	114.53	106.78
13	s8	1001	CYC	C3B-C4B-NB	9.60	114.53	106.78
13	h8	1001	CYC	C3B-C4B-NB	9.58	114.52	106.78
13	F8	1001	CYC	C3B-C4B-NB	9.58	114.52	106.78
13	I8	1001	CYC	C3B-C4B-NB	9.58	114.52	106.78
13	W8	1001	CYC	C3B-C4B-NB	9.57	114.51	106.78
13	M8	1001	CYC	C3B-C4B-NB	9.57	114.51	106.78
13	k8	1001	CYC	C3B-C4B-NB	9.57	114.51	106.78
13	09	1201	CYC	C3B-C4B-NB	9.55	114.50	106.78
13	f8	1001	CYC	C3B-C4B-NB	9.55	114.50	106.78
13	19	1201	CYC	C3B-C4B-NB	9.55	114.50	106.78
13	R8	1001	CYC	C3B-C4B-NB	9.55	114.49	106.78
13	o8	1001	CYC	C3B-C4B-NB	9.53	114.48	106.78
13	D8	1001	CYC	C3B-C4B-NB	9.53	114.47	106.78
13	Y8	1001	CYC	C3B-C4B-NB	9.53	114.47	106.78
13	B8	1001	CYC	C3B-C4B-NB	9.51	114.46	106.78
13	b8	1001	CYC	C3B-C4B-NB	9.51	114.46	106.78
13	P8	1001	CYC	C3B-C4B-NB	9.50	114.45	106.78
13	T8	1001	CYC	C3B-C4B-NB	9.49	114.45	106.78
13	f9	1001	CYC	CHD-C4C-NC	8.60	135.43	125.20
13	y9	1001	CYC	CHD-C4C-NC	8.59	135.42	125.20
13	k9	1001	CYC	CHD-C4C-NC	8.58	135.41	125.20
13	u9	1001	CYC	CHD-C4C-NC	8.57	135.40	125.20
13	q9	1001	CYC	CHD-C4C-NC	8.57	135.40	125.20
13	K9	1001	CYC	CHD-C4C-NC	8.56	135.39	125.20
13	P9	1001	CYC	CHD-C4C-NC	8.56	135.39	125.20
13	s9	1001	CYC	CHD-C4C-NC	8.56	135.38	125.20
13	N9	1001	CYC	CHD-C4C-NC	8.55	135.37	125.20
13	o9	1001	CYC	CHD-C4C-NC	8.55	135.37	125.20
13	X9	1001	CYC	CHD-C4C-NC	8.54	135.36	125.20
13	R9	1001	CYC	CHD-C4C-NC	8.54	135.35	125.20
13	b9	1001	CYC	CHD-C4C-NC	8.53	135.35	125.20
13	A9	1001	CYC	CHD-C4C-NC	8.53	135.35	125.20
13	I9	1001	CYC	CHD-C4C-NC	8.53	135.34	125.20
13	d9	1001	CYC	CHD-C4C-NC	8.53	135.34	125.20
13	E9	1001	CYC	CHD-C4C-NC	8.52	135.34	125.20
13	i9	1001	CYC	CHD-C4C-NC	8.52	135.34	125.20
13	G9	1001	CYC	CHD-C4C-NC	8.52	135.34	125.20
13	w9	1001	CYC	CHD-C4C-NC	8.52	135.34	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	C9	1001	CYC	CHD-C4C-NC	8.52	135.33	125.20
13	T9	1001	CYC	CHD-C4C-NC	8.52	135.33	125.20
13	Z9	1001	CYC	CHD-C4C-NC	8.52	135.33	125.20
13	39	1001	CYC	C1B-NB-C4B	-7.47	101.16	110.67
13	c9	1001	CYC	C1B-NB-C4B	-7.47	101.16	110.67
13	x9	1001	CYC	C1B-NB-C4B	-7.46	101.17	110.67
13	z9	1001	CYC	C1B-NB-C4B	-7.46	101.17	110.67
13	09	1203	CYC	C1B-NB-C4B	-7.46	101.17	110.67
13	S9	1001	CYC	C1B-NB-C4B	-7.46	101.17	110.67
13	l9	1001	CYC	C1B-NB-C4B	-7.46	101.18	110.67
13	p9	1001	CYC	C1B-NB-C4B	-7.45	101.18	110.67
13	B9	1001	CYC	C1B-NB-C4B	-7.45	101.18	110.67
13	O9	1001	CYC	C1B-NB-C4B	-7.45	101.19	110.67
13	L9	1001	CYC	C1B-NB-C4B	-7.44	101.19	110.67
13	v9	1001	CYC	C1B-NB-C4B	-7.44	101.19	110.67
13	H9	1001	CYC	C1B-NB-C4B	-7.44	101.20	110.67
13	r9	1001	CYC	C1B-NB-C4B	-7.44	101.20	110.67
13	19	1205	CYC	C1B-NB-C4B	-7.44	101.20	110.67
13	j9	1001	CYC	C1B-NB-C4B	-7.43	101.20	110.67
13	19	1204	CYC	C1B-NB-C4B	-7.43	101.20	110.67
13	19	1203	CYC	C1B-NB-C4B	-7.43	101.21	110.67
13	29	1001	CYC	C1B-NB-C4B	-7.43	101.21	110.67
13	t9	1001	CYC	C1B-NB-C4B	-7.42	101.23	110.67
13	U9	1001	CYC	C1B-NB-C4B	-7.42	101.23	110.67
13	F9	1001	CYC	C1B-NB-C4B	-7.41	101.23	110.67
13	J9	1001	CYC	C1B-NB-C4B	-7.41	101.24	110.67
13	e9	1001	CYC	C1B-NB-C4B	-7.40	101.25	110.67
13	D9	1001	CYC	C1B-NB-C4B	-7.40	101.25	110.67
13	TA	201	CYC	OB-C4B-C3B	-7.20	120.22	128.04
13	T5	201	CYC	OB-C4B-C3B	-7.19	120.24	128.04
13	I5	201	CYC	OB-C4B-C3B	-7.08	120.36	128.04
13	I2	201	CYC	OB-C4B-C3B	-7.07	120.36	128.04
13	IA	201	CYC	OB-C4B-C3B	-7.06	120.38	128.04
13	I4	201	CYC	OB-C4B-C3B	-7.05	120.39	128.04
13	I6	201	CYC	OB-C4B-C3B	-7.04	120.40	128.04
13	I1	201	CYC	OB-C4B-C3B	-7.04	120.40	128.04
13	NA	301	CYC	OB-C4B-C3B	-7.02	120.42	128.04
13	Z6	202	CYC	O2A-CGA-O1A	-7.02	105.81	123.30
13	C6	201	CYC	O2A-CGA-O1A	-7.02	105.81	123.30
13	C2	201	CYC	O2A-CGA-O1A	-7.01	105.82	123.30
13	Q4	201	CYC	O2A-CGA-O1A	-7.01	105.82	123.30
13	N2	302	CYC	O2A-CGA-O1A	-7.01	105.83	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Q6	201	CYC	O2A-CGA-O1A	-7.01	105.83	123.30
13	I7	201	CYC	OB-C4B-C3B	-7.00	120.44	128.04
13	R4	1001	CYC	O2A-CGA-O1A	-7.00	105.85	123.30
13	Q2	201	CYC	O2A-CGA-O1A	-7.00	105.85	123.30
13	Q1	201	CYC	O2A-CGA-O1A	-7.00	105.86	123.30
13	L1	201	CYC	O2A-CGA-O1A	-7.00	105.86	123.30
13	F4	1001	CYC	O2A-CGA-O1A	-6.99	105.87	123.30
13	L6	201	CYC	O2A-CGA-O1A	-6.99	105.87	123.30
13	I3	201	CYC	OB-C4B-C3B	-6.99	120.45	128.04
13	R2	1001	CYC	O2A-CGA-O1A	-6.99	105.87	123.30
13	C4	301	CYC	O2A-CGA-O1A	-6.99	105.87	123.30
13	A3	301	CYC	O2A-CGA-O1A	-6.99	105.87	123.30
13	N5	301	CYC	OB-C4B-C3B	-6.99	120.45	128.04
13	A7	301	CYC	O2A-CGA-O1A	-6.99	105.88	123.30
13	YA	201	CYC	O2A-CGA-O1A	-6.99	105.88	123.30
13	XA	201	CYC	OB-C4B-C3B	-6.99	120.46	128.04
13	F1	1001	CYC	O2A-CGA-O1A	-6.99	105.88	123.30
13	V6	202	CYC	O2A-CGA-O1A	-6.99	105.88	123.30
13	D7	1001	CYC	O2A-CGA-O1A	-6.99	105.88	123.30
13	L4	201	CYC	O2A-CGA-O1A	-6.99	105.88	123.30
13	R6	1001	CYC	O2A-CGA-O1A	-6.99	105.89	123.30
13	O6	1001	CYC	O2A-CGA-O1A	-6.99	105.89	123.30
13	V2	202	CYC	O2A-CGA-O1A	-6.98	105.89	123.30
13	Z2	202	CYC	O2A-CGA-O1A	-6.98	105.89	123.30
13	O5	1001	CYC	O2A-CGA-O1A	-6.98	105.89	123.30
13	X5	201	CYC	OB-C4B-C3B	-6.98	120.46	128.04
13	Z5	201	CYC	OB-C4B-C3B	-6.98	120.46	128.04
13	O2	1001	CYC	O2A-CGA-O1A	-6.98	105.90	123.30
13	U5	1001	CYC	O2A-CGA-O1A	-6.98	105.90	123.30
13	F7	1001	CYC	O2A-CGA-O1A	-6.98	105.90	123.30
13	D3	1001	CYC	O2A-CGA-O1A	-6.98	105.90	123.30
13	S2	1001	CYC	O2A-CGA-O1A	-6.98	105.90	123.30
13	G7	201	CYC	O2A-CGA-O1A	-6.98	105.90	123.30
13	G3	201	CYC	O2A-CGA-O1A	-6.98	105.90	123.30
13	EA	202	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	U1	1001	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	W5	1001	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	Y5	201	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	O1	1001	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	U2	202	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	C1	301	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	O4	1001	CYC	O2A-CGA-O1A	-6.98	105.91	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	U6	202	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	E5	202	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	R1	1001	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	T1	202	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	T4	202	CYC	O2A-CGA-O1A	-6.98	105.91	123.30
13	Z1	202	CYC	O2A-CGA-O1A	-6.97	105.92	123.30
13	F2	1001	CYC	O2A-CGA-O1A	-6.97	105.92	123.30
13	AA	304	CYC	OB-C4B-C3B	-6.97	120.47	128.04
13	LA	201	CYC	O2A-CGA-O1A	-6.97	105.92	123.30
13	L3	201	CYC	O2A-CGA-O1A	-6.97	105.92	123.30
13	G6	202	CYC	O2A-CGA-O1A	-6.97	105.92	123.30
13	WA	1001	CYC	O2A-CGA-O1A	-6.97	105.92	123.30
13	X1	201	CYC	OB-C4B-C3B	-6.97	120.47	128.04
13	F3	1001	CYC	O2A-CGA-O1A	-6.97	105.92	123.30
13	V4	202	CYC	O2A-CGA-O1A	-6.97	105.92	123.30
13	F6	1001	CYC	O2A-CGA-O1A	-6.97	105.92	123.30
13	L2	201	CYC	O2A-CGA-O1A	-6.97	105.92	123.30
13	UA	1001	CYC	O2A-CGA-O1A	-6.97	105.93	123.30
13	N6	302	CYC	O2A-CGA-O1A	-6.97	105.93	123.30
13	PA	203	CYC	O2A-CGA-O1A	-6.97	105.93	123.30
13	W2	202	CYC	O2A-CGA-O1A	-6.97	105.93	123.30
13	L7	201	CYC	O2A-CGA-O1A	-6.97	105.93	123.30
13	DA	1001	CYC	O2A-CGA-O1A	-6.97	105.93	123.30
13	L5	201	CYC	O2A-CGA-O1A	-6.97	105.94	123.30
13	A5	303	CYC	OB-C4B-C3B	-6.97	120.48	128.04
13	D2	1001	CYC	O2A-CGA-O1A	-6.97	105.94	123.30
13	D5	1001	CYC	O2A-CGA-O1A	-6.97	105.94	123.30
13	S1	1001	CYC	O2A-CGA-O1A	-6.96	105.94	123.30
13	OA	1001	CYC	O2A-CGA-O1A	-6.96	105.94	123.30
13	X6	201	CYC	OB-C4B-C3B	-6.96	120.48	128.04
13	Z4	202	CYC	O2A-CGA-O1A	-6.96	105.95	123.30
13	ZA	201	CYC	OB-C4B-C3B	-6.96	120.48	128.04
13	B5	1001	CYC	O2A-CGA-O1A	-6.96	105.95	123.30
13	MA	1001	CYC	O2A-CGA-O1A	-6.96	105.95	123.30
13	A5	304	CYC	OB-C4B-C3B	-6.96	120.49	128.04
13	M5	1001	CYC	O2A-CGA-O1A	-6.96	105.95	123.30
13	X2	201	CYC	OB-C4B-C3B	-6.96	120.49	128.04
13	D1	1001	CYC	O2A-CGA-O1A	-6.96	105.95	123.30
13	W4	1001	CYC	O2A-CGA-O1A	-6.96	105.95	123.30
13	S4	1001	CYC	O2A-CGA-O1A	-6.96	105.96	123.30
13	P5	203	CYC	O2A-CGA-O1A	-6.96	105.96	123.30
13	J5	1001	CYC	O2A-CGA-O1A	-6.96	105.96	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	D6	1001	CYC	O2A-CGA-O1A	-6.96	105.96	123.30
13	U4	1001	CYC	O2A-CGA-O1A	-6.96	105.96	123.30
13	SA	1001	CYC	O2A-CGA-O1A	-6.95	105.96	123.30
13	W6	202	CYC	O2A-CGA-O1A	-6.95	105.97	123.30
13	G4	202	CYC	O2A-CGA-O1A	-6.95	105.97	123.30
13	Y4	201	CYC	O2A-CGA-O1A	-6.95	105.98	123.30
13	D4	1001	CYC	O2A-CGA-O1A	-6.95	105.98	123.30
13	H6	1001	CYC	O2A-CGA-O1A	-6.95	105.98	123.30
13	V1	202	CYC	O2A-CGA-O1A	-6.95	105.98	123.30
13	GA	1001	CYC	O2A-CGA-O1A	-6.95	105.98	123.30
13	S6	1001	CYC	O2A-CGA-O1A	-6.95	105.98	123.30
13	JA	1001	CYC	O2A-CGA-O1A	-6.95	105.99	123.30
13	W1	1001	CYC	O2A-CGA-O1A	-6.95	105.99	123.30
13	G2	202	CYC	O2A-CGA-O1A	-6.95	105.99	123.30
13	G1	202	CYC	O2A-CGA-O1A	-6.94	105.99	123.30
13	Y1	201	CYC	O2A-CGA-O1A	-6.94	105.99	123.30
13	V5	201	CYC	OB-C4B-C3B	-6.94	120.51	128.04
13	Y2	201	CYC	O2A-CGA-O1A	-6.94	106.00	123.30
13	Y6	201	CYC	O2A-CGA-O1A	-6.94	106.00	123.30
13	X4	201	CYC	OB-C4B-C3B	-6.93	120.51	128.04
13	H2	1001	CYC	O2A-CGA-O1A	-6.93	106.02	123.30
13	J4	1001	CYC	O2A-CGA-O1A	-6.93	106.02	123.30
13	H4	1001	CYC	O2A-CGA-O1A	-6.93	106.02	123.30
13	S5	1001	CYC	O2A-CGA-O1A	-6.93	106.02	123.30
13	B1	1001	CYC	O2A-CGA-O1A	-6.93	106.03	123.30
13	H3	1001	CYC	O2A-CGA-O1A	-6.93	106.03	123.30
13	J1	1001	CYC	O2A-CGA-O1A	-6.93	106.03	123.30
13	H1	1001	CYC	O2A-CGA-O1A	-6.93	106.04	123.30
13	B6	1001	CYC	O2A-CGA-O1A	-6.92	106.04	123.30
13	B3	1001	CYC	O2A-CGA-O1A	-6.92	106.04	123.30
13	B7	1001	CYC	O2A-CGA-O1A	-6.92	106.04	123.30
13	B4	1001	CYC	O2A-CGA-O1A	-6.92	106.05	123.30
13	H7	1001	CYC	O2A-CGA-O1A	-6.92	106.06	123.30
13	VA	201	CYC	OB-C4B-C3B	-6.92	120.53	128.04
13	B2	1001	CYC	O2A-CGA-O1A	-6.92	106.06	123.30
13	J2	1001	CYC	O2A-CGA-O1A	-6.91	106.08	123.30
13	J6	1001	CYC	O2A-CGA-O1A	-6.90	106.09	123.30
13	AA	303	CYC	OB-C4B-C3B	-6.90	120.55	128.04
13	J7	1001	CYC	O2A-CGA-O1A	-6.90	106.11	123.30
13	J7	1001	CYC	CMA-C3A-C4A	6.90	135.68	125.06
13	U1	1001	CYC	CMA-C3A-C4A	6.90	135.68	125.06
13	U2	202	CYC	CMA-C3A-C4A	6.89	135.68	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	N2	302	CYC	CMA-C3A-C4A	6.89	135.68	125.06
13	S4	1001	CYC	CMA-C3A-C4A	6.89	135.68	125.06
13	U6	202	CYC	CMA-C3A-C4A	6.89	135.67	125.06
13	T1	202	CYC	CMA-C3A-C4A	6.89	135.67	125.06
13	T4	202	CYC	CMA-C3A-C4A	6.88	135.67	125.06
13	J3	1001	CYC	O2A-CGA-O1A	-6.88	106.15	123.30
13	H4	1001	CYC	CMA-C3A-C4A	6.88	135.66	125.06
13	Y5	201	CYC	CMA-C3A-C4A	6.87	135.65	125.06
13	N6	302	CYC	CMA-C3A-C4A	6.87	135.65	125.06
13	J3	1001	CYC	CMA-C3A-C4A	6.87	135.65	125.06
13	L1	201	CYC	CMA-C3A-C4A	6.87	135.64	125.06
13	W2	202	CYC	CMA-C3A-C4A	6.87	135.64	125.06
13	W6	202	CYC	CMA-C3A-C4A	6.87	135.64	125.06
13	F2	1001	CYC	CMA-C3A-C4A	6.86	135.63	125.06
13	W4	1001	CYC	CMA-C3A-C4A	6.86	135.63	125.06
13	SA	1001	CYC	CMA-C3A-C4A	6.86	135.63	125.06
13	L4	201	CYC	CMA-C3A-C4A	6.86	135.63	125.06
13	09	1202	CYC	CHB-C4A-NA	-6.86	110.58	124.93
13	S5	1001	CYC	CMA-C3A-C4A	6.86	135.63	125.06
13	D4	1001	CYC	CMA-C3A-C4A	6.86	135.63	125.06
13	D1	1001	CYC	CMA-C3A-C4A	6.86	135.62	125.06
13	U4	1001	CYC	CMA-C3A-C4A	6.86	135.62	125.06
13	J5	1001	CYC	CMA-C3A-C4A	6.86	135.62	125.06
13	C4	301	CYC	CMA-C3A-C4A	6.86	135.62	125.06
13	G6	202	CYC	CMA-C3A-C4A	6.86	135.62	125.06
13	G3	201	CYC	CMA-C3A-C4A	6.85	135.62	125.06
13	L6	201	CYC	CMA-C3A-C4A	6.85	135.62	125.06
13	OA	1001	CYC	CMA-C3A-C4A	6.85	135.62	125.06
13	L7	201	CYC	CMA-C3A-C4A	6.85	135.62	125.06
13	H1	1001	CYC	CMA-C3A-C4A	6.85	135.62	125.06
13	D2	1001	CYC	CMA-C3A-C4A	6.85	135.62	125.06
13	S2	1001	CYC	CMA-C3A-C4A	6.85	135.61	125.06
13	D6	1001	CYC	CMA-C3A-C4A	6.85	135.61	125.06
13	W1	1001	CYC	CMA-C3A-C4A	6.85	135.61	125.06
13	F3	1001	CYC	CMA-C3A-C4A	6.85	135.61	125.06
13	F6	1001	CYC	CMA-C3A-C4A	6.85	135.61	125.06
13	S1	1001	CYC	CMA-C3A-C4A	6.85	135.61	125.06
13	C2	201	CYC	CMA-C3A-C4A	6.85	135.61	125.06
13	Z2	202	CYC	CMA-C3A-C4A	6.85	135.61	125.06
13	G4	202	CYC	CMA-C3A-C4A	6.85	135.61	125.06
13	C1	301	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	JA	1001	CYC	CMA-C3A-C4A	6.84	135.60	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	J2	1001	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	O4	1001	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	J6	1001	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	U5	1001	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	F7	1001	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	O5	1001	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	S6	1001	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	O1	1001	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	G2	202	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	D7	1001	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	M5	1001	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	LA	201	CYC	CMA-C3A-C4A	6.84	135.60	125.06
13	J4	1001	CYC	CMA-C3A-C4A	6.84	135.59	125.06
13	R4	1001	CYC	CMA-C3A-C4A	6.84	135.59	125.06
13	G1	202	CYC	CMA-C3A-C4A	6.84	135.59	125.06
13	Q6	201	CYC	CMA-C3A-C4A	6.84	135.59	125.06
13	L5	201	CYC	CMA-C3A-C4A	6.84	135.59	125.06
13	Y4	201	CYC	CMA-C3A-C4A	6.83	135.59	125.06
13	YA	201	CYC	CMA-C3A-C4A	6.83	135.59	125.06
13	G7	201	CYC	CMA-C3A-C4A	6.83	135.58	125.06
13	L2	201	CYC	CMA-C3A-C4A	6.83	135.58	125.06
13	C6	201	CYC	CMA-C3A-C4A	6.83	135.58	125.06
13	Q2	201	CYC	CMA-C3A-C4A	6.83	135.57	125.06
13	WA	1001	CYC	CMA-C3A-C4A	6.83	135.57	125.06
13	V1	202	CYC	CMA-C3A-C4A	6.82	135.57	125.06
13	P5	203	CYC	CMA-C3A-C4A	6.82	135.57	125.06
13	D3	1001	CYC	CMA-C3A-C4A	6.82	135.57	125.06
13	UA	1001	CYC	CMA-C3A-C4A	6.82	135.57	125.06
13	Z6	202	CYC	CMA-C3A-C4A	6.82	135.57	125.06
13	A7	301	CYC	CMA-C3A-C4A	6.82	135.57	125.06
13	MA	1001	CYC	CMA-C3A-C4A	6.82	135.57	125.06
13	R2	1001	CYC	CMA-C3A-C4A	6.82	135.56	125.06
13	PA	203	CYC	CMA-C3A-C4A	6.82	135.56	125.06
13	GA	1001	CYC	CMA-C3A-C4A	6.82	135.56	125.06
13	A3	301	CYC	CMA-C3A-C4A	6.82	135.56	125.06
13	L3	201	CYC	CMA-C3A-C4A	6.82	135.56	125.06
13	O2	1001	CYC	CMA-C3A-C4A	6.82	135.56	125.06
13	E5	202	CYC	CMA-C3A-C4A	6.81	135.56	125.06
13	Y6	201	CYC	CMA-C3A-C4A	6.81	135.56	125.06
13	Y2	201	CYC	CMA-C3A-C4A	6.81	135.56	125.06
13	H3	1001	CYC	CMA-C3A-C4A	6.81	135.56	125.06
13	Z1	202	CYC	CMA-C3A-C4A	6.81	135.55	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	J1	1001	CYC	CMA-C3A-C4A	6.81	135.55	125.06
13	D5	1001	CYC	CMA-C3A-C4A	6.81	135.55	125.06
13	R6	1001	CYC	CMA-C3A-C4A	6.81	135.55	125.06
13	EA	202	CYC	CMA-C3A-C4A	6.81	135.55	125.06
13	H2	1001	CYC	CMA-C3A-C4A	6.80	135.54	125.06
13	W5	1001	CYC	CMA-C3A-C4A	6.80	135.54	125.06
13	Z4	202	CYC	CMA-C3A-C4A	6.80	135.54	125.06
13	V6	202	CYC	CMA-C3A-C4A	6.80	135.54	125.06
13	Y1	201	CYC	CMA-C3A-C4A	6.80	135.54	125.06
13	V4	202	CYC	CMA-C3A-C4A	6.80	135.53	125.06
13	O6	1001	CYC	CMA-C3A-C4A	6.80	135.53	125.06
13	H7	1001	CYC	CMA-C3A-C4A	6.79	135.53	125.06
13	V2	202	CYC	CMA-C3A-C4A	6.79	135.52	125.06
13	B5	1001	CYC	CMA-C3A-C4A	6.79	135.52	125.06
13	R1	1001	CYC	CMA-C3A-C4A	6.79	135.52	125.06
13	DA	1001	CYC	CMA-C3A-C4A	6.79	135.51	125.06
13	F4	1001	CYC	CMA-C3A-C4A	6.78	135.51	125.06
13	Q4	201	CYC	CMA-C3A-C4A	6.78	135.51	125.06
13	H6	1001	CYC	CMA-C3A-C4A	6.78	135.50	125.06
13	B7	1001	CYC	CMA-C3A-C4A	6.77	135.49	125.06
13	F1	1001	CYC	CMA-C3A-C4A	6.77	135.49	125.06
13	Q1	201	CYC	CMA-C3A-C4A	6.76	135.47	125.06
13	B2	1001	CYC	CMA-C3A-C4A	6.76	135.47	125.06
13	B3	1001	CYC	CMA-C3A-C4A	6.75	135.46	125.06
13	B1	1001	CYC	CMA-C3A-C4A	6.75	135.46	125.06
13	B6	1001	CYC	CMA-C3A-C4A	6.75	135.46	125.06
13	B4	1001	CYC	CMA-C3A-C4A	6.72	135.42	125.06
13	d8	1001	CYC	OB-C4B-C3B	-6.69	120.78	128.04
13	h8	1001	CYC	OB-C4B-C3B	-6.69	120.78	128.04
13	I8	1001	CYC	OB-C4B-C3B	-6.68	120.78	128.04
13	q8	1001	CYC	OB-C4B-C3B	-6.68	120.78	128.04
13	W8	1001	CYC	OB-C4B-C3B	-6.68	120.79	128.04
13	F8	1001	CYC	OB-C4B-C3B	-6.67	120.80	128.04
13	Z8	1001	CYC	CHD-C4C-NC	6.67	133.14	125.20
13	M8	1001	CYC	OB-C4B-C3B	-6.67	120.80	128.04
13	X8	1001	CYC	CHD-C4C-NC	6.67	133.14	125.20
13	D8	1001	CYC	OB-C4B-C3B	-6.67	120.80	128.04
13	19	1201	CYC	OB-C4B-C3B	-6.66	120.81	128.04
13	09	1201	CYC	OB-C4B-C3B	-6.66	120.81	128.04
13	V8	1001	CYC	CHD-C4C-NC	6.66	133.12	125.20
13	K8	1001	CYC	OB-C4B-C3B	-6.65	120.82	128.04
13	s8	1001	CYC	OB-C4B-C3B	-6.65	120.82	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	n8	1001	CYC	CHD-C4C-NC	6.65	133.12	125.20
13	T8	1001	CYC	OB-C4B-C3B	-6.65	120.82	128.04
13	t8	1001	CYC	CHD-C4C-NC	6.65	133.11	125.20
13	f8	1001	CYC	OB-C4B-C3B	-6.65	120.83	128.04
13	B8	1001	CYC	OB-C4B-C3B	-6.64	120.84	128.04
13	R8	1001	CYC	OB-C4B-C3B	-6.63	120.84	128.04
13	O8	1001	CYC	CHD-C4C-NC	6.63	133.08	125.20
13	p8	1001	CYC	CHD-C4C-NC	6.63	133.08	125.20
13	b8	1001	CYC	OB-C4B-C3B	-6.62	120.85	128.04
13	H8	1001	CYC	CHD-C4C-NC	6.62	133.08	125.20
13	o8	1001	CYC	OB-C4B-C3B	-6.62	120.85	128.04
13	Q8	1001	CYC	CHD-C4C-NC	6.62	133.08	125.20
13	e8	1001	CYC	CHD-C4C-NC	6.62	133.07	125.20
13	P8	1001	CYC	OB-C4B-C3B	-6.61	120.86	128.04
13	Y8	1001	CYC	OB-C4B-C3B	-6.61	120.86	128.04
13	k8	1001	CYC	OB-C4B-C3B	-6.61	120.87	128.04
13	A8	1001	CYC	CHD-C4C-NC	6.61	133.06	125.20
13	L8	1001	CYC	CHD-C4C-NC	6.61	133.06	125.20
13	E8	1001	CYC	CHD-C4C-NC	6.61	133.06	125.20
13	C8	1001	CYC	CHD-C4C-NC	6.60	133.06	125.20
13	S8	1001	CYC	CHD-C4C-NC	6.60	133.05	125.20
13	J8	1001	CYC	CHD-C4C-NC	6.59	133.04	125.20
13	g8	1001	CYC	CHD-C4C-NC	6.59	133.04	125.20
13	j8	1001	CYC	CHD-C4C-NC	6.59	133.04	125.20
13	l8	1001	CYC	CHD-C4C-NC	6.58	133.03	125.20
13	r8	1001	CYC	CHD-C4C-NC	6.58	133.03	125.20
13	c8	1001	CYC	CHD-C4C-NC	6.58	133.03	125.20
13	V5	201	CYC	CMA-C3A-C4A	6.56	135.16	125.06
13	VA	201	CYC	CMA-C3A-C4A	6.55	135.15	125.06
13	X5	201	CYC	CMA-C3A-C4A	6.53	135.12	125.06
13	AA	301	CYC	OB-C4B-C3B	-6.52	120.96	128.04
13	NA	301	CYC	CMA-C3A-C4A	6.52	135.11	125.06
13	N5	301	CYC	CMA-C3A-C4A	6.52	135.10	125.06
13	X4	201	CYC	CMA-C3A-C4A	6.51	135.09	125.06
13	AA	303	CYC	CMA-C3A-C4A	6.51	135.09	125.06
13	X2	201	CYC	CMA-C3A-C4A	6.50	135.08	125.06
13	XA	201	CYC	CMA-C3A-C4A	6.50	135.07	125.06
13	X1	201	CYC	CMA-C3A-C4A	6.49	135.06	125.06
13	X6	201	CYC	CMA-C3A-C4A	6.49	135.06	125.06
13	A5	303	CYC	CMA-C3A-C4A	6.49	135.06	125.06
13	ZA	201	CYC	CMA-C3A-C4A	6.49	135.06	125.06
13	T5	201	CYC	CMA-C3A-C4A	6.48	135.04	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Z5	201	CYC	CMA-C3A-C4A	6.47	135.03	125.06
13	IA	201	CYC	CMA-C3A-C4A	6.47	135.03	125.06
13	A5	301	CYC	OB-C4B-C3B	-6.46	121.02	128.04
13	E4	201	CYC	OB-C4B-C3B	-6.46	121.03	128.04
13	E1	201	CYC	OB-C4B-C3B	-6.46	121.03	128.04
13	E2	201	CYC	OB-C4B-C3B	-6.46	121.03	128.04
13	I5	201	CYC	CMA-C3A-C4A	6.45	135.00	125.06
13	I1	201	CYC	CMA-C3A-C4A	6.45	135.00	125.06
13	E3	201	CYC	OB-C4B-C3B	-6.45	121.04	128.04
13	E6	201	CYC	OB-C4B-C3B	-6.45	121.04	128.04
13	I4	201	CYC	CMA-C3A-C4A	6.44	134.98	125.06
13	TA	201	CYC	CMA-C3A-C4A	6.44	134.98	125.06
13	E7	201	CYC	OB-C4B-C3B	-6.44	121.06	128.04
13	g9	1001	CYC	CMA-C3A-C4A	6.43	134.96	125.06
13	AA	304	CYC	CMA-C3A-C4A	6.42	134.96	125.06
13	V9	201	CYC	OB-C4B-C3B	-6.41	121.08	128.04
13	E1	201	CYC	CHB-C4A-NA	-6.41	111.52	124.93
13	I7	201	CYC	CMA-C3A-C4A	6.40	134.93	125.06
13	I3	201	CYC	CMA-C3A-C4A	6.40	134.92	125.06
13	E4	201	CYC	CHB-C4A-NA	-6.40	111.55	124.93
13	I2	201	CYC	CMA-C3A-C4A	6.39	134.91	125.06
13	E6	201	CYC	CHB-C4A-NA	-6.39	111.57	124.93
13	A5	304	CYC	CMA-C3A-C4A	6.39	134.90	125.06
13	A5	302	CYC	OB-C4B-C3B	-6.39	121.11	128.04
13	AA	302	CYC	OB-C4B-C3B	-6.38	121.11	128.04
13	E3	201	CYC	CHB-C4A-NA	-6.38	111.59	124.93
13	E7	201	CYC	CHB-C4A-NA	-6.37	111.60	124.93
13	19	1202	CYC	C1B-NB-C4B	-6.37	102.56	110.67
13	A5	302	CYC	CHB-C4A-NA	-6.36	111.62	124.93
13	E2	201	CYC	CHB-C4A-NA	-6.36	111.62	124.93
13	m9	201	CYC	OB-C4B-C3B	-6.36	121.14	128.04
13	I6	201	CYC	CMA-C3A-C4A	6.36	134.86	125.06
13	AA	302	CYC	CHB-C4A-NA	-6.36	111.64	124.93
13	X1	201	CYC	OC-C1C-C2C	-6.32	121.15	126.17
13	X2	201	CYC	OC-C1C-C2C	-6.32	121.15	126.17
13	Z5	201	CYC	OC-C1C-C2C	-6.31	121.15	126.17
13	19	1202	CYC	C2B-C1B-NB	6.31	116.23	106.99
13	X6	201	CYC	OC-C1C-C2C	-6.31	121.15	126.17
13	AA	301	CYC	CHB-C4A-NA	-6.31	111.73	124.93
13	A5	301	CYC	CHB-C4A-NA	-6.31	111.73	124.93
13	XA	201	CYC	OC-C1C-C2C	-6.31	121.16	126.17
13	ZA	201	CYC	OC-C1C-C2C	-6.29	121.17	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	TA	201	CYC	OC-C1C-C2C	-6.28	121.18	126.17
13	X4	201	CYC	OC-C1C-C2C	-6.27	121.19	126.17
13	T5	201	CYC	OC-C1C-C2C	-6.26	121.20	126.17
13	NA	301	CYC	OC-C1C-C2C	-6.25	121.21	126.17
13	X5	201	CYC	OC-C1C-C2C	-6.24	121.21	126.17
13	AA	304	CYC	OC-C1C-C2C	-6.20	121.24	126.17
13	A5	304	CYC	OC-C1C-C2C	-6.20	121.24	126.17
13	N5	301	CYC	OC-C1C-C2C	-6.19	121.25	126.17
13	IA	201	CYC	OC-C1C-C2C	-6.18	121.26	126.17
13	Q9	201	CYC	CMA-C3A-C4A	6.17	134.56	125.06
13	I5	201	CYC	OC-C1C-C2C	-6.16	121.28	126.17
13	I1	201	CYC	OC-C1C-C2C	-6.16	121.28	126.17
13	I4	201	CYC	OC-C1C-C2C	-6.15	121.29	126.17
13	VA	201	CYC	OC-C1C-C2C	-6.10	121.32	126.17
13	I7	201	CYC	OC-C1C-C2C	-6.08	121.33	126.17
13	19	1203	CYC	O2A-CGA-CBA	6.07	133.54	114.03
13	I6	201	CYC	OC-C1C-C2C	-6.07	121.35	126.17
13	l9	1001	CYC	O2A-CGA-CBA	6.06	133.50	114.03
13	p9	1001	CYC	O2A-CGA-CBA	6.06	133.50	114.03
13	I3	201	CYC	OC-C1C-C2C	-6.06	121.36	126.17
13	c9	1001	CYC	O2A-CGA-CBA	6.06	133.50	114.03
13	19	1205	CYC	O2A-CGA-CBA	6.06	133.49	114.03
13	B9	1001	CYC	O2A-CGA-CBA	6.06	133.49	114.03
13	v9	1001	CYC	O2A-CGA-CBA	6.06	133.49	114.03
13	J9	1001	CYC	O2A-CGA-CBA	6.05	133.48	114.03
13	x9	1001	CYC	O2A-CGA-CBA	6.05	133.48	114.03
13	H9	1001	CYC	O2A-CGA-CBA	6.05	133.47	114.03
13	U9	1001	CYC	O2A-CGA-CBA	6.05	133.47	114.03
13	O9	1001	CYC	O2A-CGA-CBA	6.05	133.46	114.03
13	39	1001	CYC	O2A-CGA-CBA	6.05	133.46	114.03
13	F9	1001	CYC	O2A-CGA-CBA	6.05	133.46	114.03
13	S9	1001	CYC	O2A-CGA-CBA	6.05	133.46	114.03
13	z9	1001	CYC	O2A-CGA-CBA	6.05	133.46	114.03
13	29	1001	CYC	O2A-CGA-CBA	6.04	133.45	114.03
13	D9	1001	CYC	O2A-CGA-CBA	6.04	133.45	114.03
13	L9	1001	CYC	O2A-CGA-CBA	6.04	133.45	114.03
13	r9	1001	CYC	O2A-CGA-CBA	6.04	133.45	114.03
13	j9	1001	CYC	O2A-CGA-CBA	6.04	133.44	114.03
13	V5	201	CYC	OC-C1C-C2C	-6.04	121.37	126.17
13	e9	1001	CYC	O2A-CGA-CBA	6.04	133.43	114.03
13	t9	1001	CYC	O2A-CGA-CBA	6.04	133.43	114.03
13	09	1203	CYC	O2A-CGA-CBA	6.04	133.43	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	19	1204	CYC	O2A-CGA-CBA	6.03	133.39	114.03
13	I2	201	CYC	OC-C1C-C2C	-6.02	121.39	126.17
13	19	1202	CYC	CHB-C4A-NA	-5.99	112.39	124.93
13	AA	303	CYC	OC-C1C-C2C	-5.97	121.43	126.17
13	A5	303	CYC	OC-C1C-C2C	-5.94	121.45	126.17
13	19	1202	CYC	OB-C4B-C3B	-5.87	121.67	128.04
13	19	1202	CYC	C1B-CHB-C4A	5.86	142.40	128.08
13	Q9	201	CYC	CHB-C4A-NA	-5.83	112.73	124.93
13	F9	1001	CYC	CAB-C3B-C4B	5.79	130.52	121.38
13	19	1205	CYC	CAB-C3B-C4B	5.78	130.51	121.38
13	09	1203	CYC	CAB-C3B-C4B	5.78	130.51	121.38
13	L9	1001	CYC	CAB-C3B-C4B	5.77	130.50	121.38
13	r9	1001	CYC	CAB-C3B-C4B	5.77	130.50	121.38
13	39	1001	CYC	CAB-C3B-C4B	5.77	130.49	121.38
13	j9	1001	CYC	CAB-C3B-C4B	5.77	130.49	121.38
13	H9	1001	CYC	CAB-C3B-C4B	5.76	130.48	121.38
13	O9	1001	CYC	CAB-C3B-C4B	5.76	130.48	121.38
13	V1	202	CYC	CBD-CAD-C3D	-5.76	102.79	112.62
13	v9	1001	CYC	CAB-C3B-C4B	5.76	130.47	121.38
13	B9	1001	CYC	CAB-C3B-C4B	5.76	130.47	121.38
13	z9	1001	CYC	CAB-C3B-C4B	5.76	130.47	121.38
13	Z1	202	CYC	CBD-CAD-C3D	-5.76	102.80	112.62
13	G4	202	CYC	CBD-CAD-C3D	-5.76	102.80	112.62
13	19	1204	CYC	CAB-C3B-C4B	5.76	130.47	121.38
13	D9	1001	CYC	CAB-C3B-C4B	5.75	130.47	121.38
13	c9	1001	CYC	CAB-C3B-C4B	5.75	130.47	121.38
13	S9	1001	CYC	CAB-C3B-C4B	5.75	130.46	121.38
13	p9	1001	CYC	CAB-C3B-C4B	5.75	130.46	121.38
13	L8	1001	CYC	CMA-C3A-C4A	5.75	133.91	125.06
13	19	1203	CYC	CAB-C3B-C4B	5.75	130.46	121.38
13	J9	1001	CYC	CAB-C3B-C4B	5.75	130.46	121.38
13	U9	1001	CYC	CAB-C3B-C4B	5.74	130.45	121.38
13	E8	1001	CYC	CMA-C3A-C4A	5.74	133.91	125.06
13	F1	1001	CYC	CBD-CAD-C3D	-5.74	102.82	112.62
13	t9	1001	CYC	CAB-C3B-C4B	5.74	130.44	121.38
13	x9	1001	CYC	CAB-C3B-C4B	5.74	130.44	121.38
13	Z6	202	CYC	CBD-CAD-C3D	-5.74	102.83	112.62
13	O8	1001	CYC	CMA-C3A-C4A	5.74	133.90	125.06
13	e8	1001	CYC	CMA-C3A-C4A	5.74	133.90	125.06
13	H8	1001	CYC	CMA-C3A-C4A	5.73	133.89	125.06
13	n8	1001	CYC	CMA-C3A-C4A	5.73	133.89	125.06
13	V8	1001	CYC	CMA-C3A-C4A	5.73	133.89	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	c8	1001	CYC	CMA-C3A-C4A	5.73	133.89	125.06
13	V4	202	CYC	CBD-CAD-C3D	-5.73	102.84	112.62
13	e9	1001	CYC	CAB-C3B-C4B	5.73	130.43	121.38
13	l8	1001	CYC	CMA-C3A-C4A	5.73	133.89	125.06
13	Q8	1001	CYC	CMA-C3A-C4A	5.73	133.88	125.06
13	l9	1001	CYC	CAB-C3B-C4B	5.73	130.43	121.38
13	G7	201	CYC	CBD-CAD-C3D	-5.73	102.85	112.62
13	p8	1001	CYC	CMA-C3A-C4A	5.73	133.88	125.06
13	V2	202	CYC	CBD-CAD-C3D	-5.73	102.85	112.62
13	S8	1001	CYC	CMA-C3A-C4A	5.72	133.88	125.06
13	G1	202	CYC	CBD-CAD-C3D	-5.72	102.85	112.62
13	29	1001	CYC	CAB-C3B-C4B	5.72	130.42	121.38
13	F7	1001	CYC	CBD-CAD-C3D	-5.72	102.86	112.62
13	F4	1001	CYC	CBD-CAD-C3D	-5.72	102.86	112.62
13	Z8	1001	CYC	CMA-C3A-C4A	5.72	133.87	125.06
13	T4	202	CYC	CBD-CAD-C3D	-5.72	102.86	112.62
13	F3	1001	CYC	CBD-CAD-C3D	-5.71	102.87	112.62
13	A8	1001	CYC	CMA-C3A-C4A	5.71	133.86	125.06
13	Z2	202	CYC	CBD-CAD-C3D	-5.71	102.87	112.62
13	N6	302	CYC	CBD-CAD-C3D	-5.71	102.87	112.62
13	X8	1001	CYC	CMA-C3A-C4A	5.71	133.86	125.06
13	V6	202	CYC	CBD-CAD-C3D	-5.71	102.87	112.62
13	Z4	202	CYC	CBD-CAD-C3D	-5.71	102.87	112.62
13	D1	1001	CYC	CBD-CAD-C3D	-5.71	102.87	112.62
13	C8	1001	CYC	CMA-C3A-C4A	5.71	133.86	125.06
13	T1	202	CYC	CBD-CAD-C3D	-5.71	102.87	112.62
13	C2	201	CYC	CBD-CAD-C3D	-5.71	102.87	112.62
13	G3	201	CYC	CBD-CAD-C3D	-5.71	102.87	112.62
13	A3	301	CYC	CBD-CAD-C3D	-5.71	102.88	112.62
13	W2	202	CYC	CBD-CAD-C3D	-5.71	102.88	112.62
13	j8	1001	CYC	CMA-C3A-C4A	5.71	133.86	125.06
13	J4	1001	CYC	CBD-CAD-C3D	-5.71	102.88	112.62
13	W6	202	CYC	CBD-CAD-C3D	-5.71	102.88	112.62
13	R2	1001	CYC	CBD-CAD-C3D	-5.71	102.88	112.62
13	W5	1001	CYC	CBD-CAD-C3D	-5.71	102.88	112.62
13	S2	1001	CYC	CBD-CAD-C3D	-5.70	102.89	112.62
13	OA	1001	CYC	CBD-CAD-C3D	-5.70	102.89	112.62
13	g8	1001	CYC	CMA-C3A-C4A	5.70	133.84	125.06
13	B1	1001	CYC	CBD-CAD-C3D	-5.70	102.89	112.62
13	S4	1001	CYC	CBD-CAD-C3D	-5.70	102.89	112.62
13	O5	1001	CYC	CBD-CAD-C3D	-5.70	102.89	112.62
13	J8	1001	CYC	CMA-C3A-C4A	5.70	133.84	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	R6	1001	CYC	CBD-CAD-C3D	-5.70	102.89	112.62
13	N2	302	CYC	CBD-CAD-C3D	-5.70	102.89	112.62
13	R4	1001	CYC	CBD-CAD-C3D	-5.70	102.89	112.62
13	J6	1001	CYC	CBD-CAD-C3D	-5.70	102.89	112.62
13	J1	1001	CYC	CBD-CAD-C3D	-5.70	102.90	112.62
13	LA	201	CYC	CBD-CAD-C3D	-5.70	102.90	112.62
13	J2	1001	CYC	CBD-CAD-C3D	-5.69	102.90	112.62
13	F6	1001	CYC	CBD-CAD-C3D	-5.69	102.90	112.62
13	C6	201	CYC	CBD-CAD-C3D	-5.69	102.90	112.62
13	G6	202	CYC	CBD-CAD-C3D	-5.69	102.91	112.62
13	D6	1001	CYC	CBD-CAD-C3D	-5.69	102.91	112.62
13	D4	1001	CYC	CBD-CAD-C3D	-5.69	102.91	112.62
13	A7	301	CYC	CBD-CAD-C3D	-5.69	102.91	112.62
13	SA	1001	CYC	CBD-CAD-C3D	-5.69	102.91	112.62
13	G2	202	CYC	CBD-CAD-C3D	-5.69	102.92	112.62
13	O4	1001	CYC	CBD-CAD-C3D	-5.69	102.92	112.62
13	r8	1001	CYC	CMA-C3A-C4A	5.69	133.82	125.06
13	C1	301	CYC	CBD-CAD-C3D	-5.69	102.92	112.62
13	S5	1001	CYC	CBD-CAD-C3D	-5.69	102.92	112.62
13	t8	1001	CYC	CMA-C3A-C4A	5.69	133.82	125.06
13	R1	1001	CYC	CBD-CAD-C3D	-5.68	102.92	112.62
13	DA	1001	CYC	CBD-CAD-C3D	-5.68	102.92	112.62
13	B4	1001	CYC	CBD-CAD-C3D	-5.68	102.92	112.62
13	L5	201	CYC	CBD-CAD-C3D	-5.68	102.92	112.62
13	S1	1001	CYC	CBD-CAD-C3D	-5.68	102.92	112.62
13	YA	201	CYC	CBD-CAD-C3D	-5.68	102.92	112.62
13	B3	1001	CYC	CBD-CAD-C3D	-5.68	102.92	112.62
13	Q1	201	CYC	CBD-CAD-C3D	-5.68	102.93	112.62
13	S6	1001	CYC	CBD-CAD-C3D	-5.68	102.93	112.62
13	C4	301	CYC	CBD-CAD-C3D	-5.68	102.93	112.62
13	F2	1001	CYC	CBD-CAD-C3D	-5.68	102.93	112.62
13	Y2	201	CYC	CBD-CAD-C3D	-5.68	102.93	112.62
13	PA	203	CYC	CBD-CAD-C3D	-5.68	102.93	112.62
13	U2	202	CYC	CBD-CAD-C3D	-5.68	102.93	112.62
13	U4	1001	CYC	CBD-CAD-C3D	-5.68	102.93	112.62
13	U5	1001	CYC	CBD-CAD-C3D	-5.68	102.93	112.62
13	O6	1001	CYC	CBD-CAD-C3D	-5.68	102.93	112.62
13	GA	1001	CYC	CBD-CAD-C3D	-5.68	102.93	112.62
13	UA	1001	CYC	CBD-CAD-C3D	-5.67	102.94	112.62
13	Y6	201	CYC	CBD-CAD-C3D	-5.67	102.94	112.62
13	EA	202	CYC	CBD-CAD-C3D	-5.67	102.94	112.62
13	L4	201	CYC	CBD-CAD-C3D	-5.67	102.94	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	L1	201	CYC	CBD-CAD-C3D	-5.67	102.94	112.62
13	B2	1001	CYC	CBD-CAD-C3D	-5.67	102.94	112.62
13	D2	1001	CYC	CBD-CAD-C3D	-5.67	102.94	112.62
13	H1	1001	CYC	CBD-CAD-C3D	-5.67	102.95	112.62
13	U1	1001	CYC	CBD-CAD-C3D	-5.67	102.95	112.62
13	B7	1001	CYC	CBD-CAD-C3D	-5.66	102.95	112.62
13	WA	1001	CYC	CBD-CAD-C3D	-5.66	102.95	112.62
13	O2	1001	CYC	CBD-CAD-C3D	-5.66	102.95	112.62
13	Q6	201	CYC	CBD-CAD-C3D	-5.66	102.95	112.62
13	U6	202	CYC	CBD-CAD-C3D	-5.66	102.95	112.62
13	Q4	201	CYC	CBD-CAD-C3D	-5.66	102.95	112.62
13	M5	1001	CYC	CBD-CAD-C3D	-5.66	102.96	112.62
13	B5	1001	CYC	CBD-CAD-C3D	-5.66	102.96	112.62
13	W4	1001	CYC	CBD-CAD-C3D	-5.66	102.96	112.62
13	O1	1001	CYC	CBD-CAD-C3D	-5.66	102.96	112.62
13	P5	203	CYC	CBD-CAD-C3D	-5.66	102.97	112.62
13	D7	1001	CYC	CBD-CAD-C3D	-5.66	102.97	112.62
13	Q2	201	CYC	CBD-CAD-C3D	-5.66	102.97	112.62
13	J5	1001	CYC	CBD-CAD-C3D	-5.66	102.97	112.62
13	Y4	201	CYC	CBD-CAD-C3D	-5.65	102.97	112.62
13	D5	1001	CYC	CBD-CAD-C3D	-5.65	102.97	112.62
13	L2	201	CYC	CBD-CAD-C3D	-5.65	102.98	112.62
13	MA	1001	CYC	CBD-CAD-C3D	-5.65	102.98	112.62
13	W1	1001	CYC	CBD-CAD-C3D	-5.65	102.98	112.62
13	E5	202	CYC	CBD-CAD-C3D	-5.65	102.98	112.62
13	L7	201	CYC	CBD-CAD-C3D	-5.65	102.98	112.62
13	L3	201	CYC	CBD-CAD-C3D	-5.65	102.98	112.62
13	B6	1001	CYC	CBD-CAD-C3D	-5.65	102.98	112.62
13	L6	201	CYC	CBD-CAD-C3D	-5.65	102.99	112.62
13	Y5	201	CYC	CBD-CAD-C3D	-5.64	102.99	112.62
13	JA	1001	CYC	CBD-CAD-C3D	-5.64	102.99	112.62
13	Y1	201	CYC	CBD-CAD-C3D	-5.64	103.00	112.62
13	D3	1001	CYC	CBD-CAD-C3D	-5.64	103.00	112.62
13	H4	1001	CYC	CBD-CAD-C3D	-5.64	103.00	112.62
13	J7	1001	CYC	CBD-CAD-C3D	-5.64	103.00	112.62
13	H7	1001	CYC	CBD-CAD-C3D	-5.62	103.03	112.62
13	J3	1001	CYC	CBD-CAD-C3D	-5.62	103.03	112.62
13	H3	1001	CYC	CBD-CAD-C3D	-5.61	103.05	112.62
13	H6	1001	CYC	CBD-CAD-C3D	-5.61	103.05	112.62
13	H2	1001	CYC	CBD-CAD-C3D	-5.61	103.05	112.62
13	09	1202	CYC	CMA-C3A-C4A	5.60	133.69	125.06
13	19	1202	CYC	OC-C1C-C2C	-5.54	121.77	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	J8	1001	CYC	CHB-C4A-NA	-5.52	113.39	124.93
13	l8	1001	CYC	CHB-C4A-NA	-5.51	113.40	124.93
13	j8	1001	CYC	CHB-C4A-NA	-5.51	113.41	124.93
13	c8	1001	CYC	CHB-C4A-NA	-5.51	113.41	124.93
13	p8	1001	CYC	CHB-C4A-NA	-5.50	113.42	124.93
13	H8	1001	CYC	CHB-C4A-NA	-5.50	113.43	124.93
13	S8	1001	CYC	CHB-C4A-NA	-5.50	113.43	124.93
13	O8	1001	CYC	CHB-C4A-NA	-5.50	113.44	124.93
13	A8	1001	CYC	CHB-C4A-NA	-5.49	113.44	124.93
13	E8	1001	CYC	CHB-C4A-NA	-5.49	113.44	124.93
13	Q8	1001	CYC	CHB-C4A-NA	-5.49	113.44	124.93
13	e8	1001	CYC	CHB-C4A-NA	-5.49	113.44	124.93
13	g8	1001	CYC	CHB-C4A-NA	-5.49	113.44	124.93
13	V8	1001	CYC	CHB-C4A-NA	-5.49	113.44	124.93
13	n8	1001	CYC	CHB-C4A-NA	-5.49	113.45	124.93
13	t8	1001	CYC	CHB-C4A-NA	-5.49	113.45	124.93
13	g9	1001	CYC	CHB-C4A-NA	-5.49	113.45	124.93
13	C8	1001	CYC	CHB-C4A-NA	-5.49	113.45	124.93
13	Z8	1001	CYC	CHB-C4A-NA	-5.48	113.46	124.93
13	r8	1001	CYC	CHB-C4A-NA	-5.48	113.47	124.93
13	L8	1001	CYC	CHB-C4A-NA	-5.48	113.47	124.93
13	X8	1001	CYC	CHB-C4A-NA	-5.47	113.48	124.93
13	09	1202	CYC	OC-C1C-C2C	-5.47	121.82	126.17
13	m9	201	CYC	CMA-C3A-C4A	5.46	133.47	125.06
13	V9	201	CYC	CMA-C3A-C4A	5.45	133.46	125.06
13	w9	1001	CYC	CMA-C3A-C4A	5.42	133.41	125.06
13	b9	1001	CYC	CMA-C3A-C4A	5.41	133.40	125.06
13	q9	1001	CYC	CMA-C3A-C4A	5.41	133.39	125.06
13	R9	1001	CYC	CMA-C3A-C4A	5.41	133.39	125.06
13	X9	1001	CYC	CMA-C3A-C4A	5.40	133.39	125.06
13	T9	1001	CYC	CMA-C3A-C4A	5.40	133.38	125.06
13	u9	1001	CYC	CMA-C3A-C4A	5.40	133.38	125.06
13	o9	1001	CYC	CMA-C3A-C4A	5.40	133.37	125.06
13	C9	1001	CYC	CMA-C3A-C4A	5.39	133.37	125.06
13	f9	1001	CYC	CMA-C3A-C4A	5.39	133.37	125.06
13	k9	1001	CYC	CMA-C3A-C4A	5.39	133.36	125.06
13	E9	1001	CYC	CMA-C3A-C4A	5.39	133.36	125.06
13	I9	1001	CYC	CMA-C3A-C4A	5.39	133.36	125.06
13	d9	1001	CYC	CMA-C3A-C4A	5.39	133.36	125.06
13	G9	1001	CYC	CMA-C3A-C4A	5.39	133.36	125.06
13	s9	1001	CYC	CMA-C3A-C4A	5.39	133.36	125.06
13	A9	1001	CYC	CMA-C3A-C4A	5.39	133.36	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	y9	1001	CYC	CMA-C3A-C4A	5.38	133.36	125.06
13	Z9	1001	CYC	CMA-C3A-C4A	5.38	133.35	125.06
13	K9	1001	CYC	CMA-C3A-C4A	5.38	133.35	125.06
13	N9	1001	CYC	CMA-C3A-C4A	5.37	133.33	125.06
13	i9	1001	CYC	CMA-C3A-C4A	5.37	133.33	125.06
13	P9	1001	CYC	CMA-C3A-C4A	5.36	133.32	125.06
13	E2	201	CYC	CMA-C3A-C4A	5.33	133.28	125.06
13	o8	1001	CYC	CAC-C3C-C4C	-5.33	98.98	112.67
13	E1	201	CYC	CMA-C3A-C4A	5.33	133.27	125.06
13	M8	1001	CYC	CAC-C3C-C4C	-5.33	98.99	112.67
13	A5	301	CYC	CMA-C3A-C4A	5.33	133.26	125.06
13	Q6	201	CYC	CAB-C3B-C4B	5.32	129.79	121.38
13	E6	201	CYC	CMA-C3A-C4A	5.32	133.26	125.06
13	d8	1001	CYC	CAC-C3C-C4C	-5.32	99.02	112.67
13	h8	1001	CYC	CAC-C3C-C4C	-5.32	99.02	112.67
13	T9	1001	CYC	CAB-C3B-C4B	5.32	129.78	121.38
13	09	1201	CYC	CAC-C3C-C4C	-5.32	99.02	112.67
13	s8	1001	CYC	CAC-C3C-C4C	-5.32	99.02	112.67
13	k9	1001	CYC	CAB-C3B-C4B	5.31	129.77	121.38
13	AA	301	CYC	CMA-C3A-C4A	5.31	133.25	125.06
13	AA	302	CYC	CMA-C3A-C4A	5.31	133.25	125.06
13	q8	1001	CYC	CAC-C3C-C4C	-5.31	99.03	112.67
13	K9	1001	CYC	CAB-C3B-C4B	5.31	129.77	121.38
13	W8	1001	CYC	CAC-C3C-C4C	-5.31	99.04	112.67
13	b8	1001	CYC	CAC-C3C-C4C	-5.31	99.04	112.67
13	f8	1001	CYC	CAC-C3C-C4C	-5.31	99.04	112.67
13	E4	201	CYC	CMA-C3A-C4A	5.31	133.24	125.06
13	Y8	1001	CYC	CAC-C3C-C4C	-5.31	99.04	112.67
13	G9	1001	CYC	CAB-C3B-C4B	5.31	129.76	121.38
13	T8	1001	CYC	CAC-C3C-C4C	-5.31	99.05	112.67
13	E9	1001	CYC	CAB-C3B-C4B	5.31	129.76	121.38
13	k8	1001	CYC	CAC-C3C-C4C	-5.30	99.05	112.67
13	B3	1001	CYC	CAB-C3B-C4B	5.30	129.76	121.38
13	B8	1001	CYC	CAC-C3C-C4C	-5.30	99.06	112.67
13	d9	1001	CYC	CAB-C3B-C4B	5.30	129.75	121.38
13	19	1201	CYC	CAC-C3C-C4C	-5.30	99.06	112.67
13	K8	1001	CYC	CAC-C3C-C4C	-5.30	99.06	112.67
13	C9	1001	CYC	CAB-C3B-C4B	5.30	129.75	121.38
13	R9	1001	CYC	CAB-C3B-C4B	5.30	129.75	121.38
13	E7	201	CYC	CMA-C3A-C4A	5.30	133.22	125.06
13	I8	1001	CYC	CAC-C3C-C4C	-5.30	99.07	112.67
13	E3	201	CYC	CMA-C3A-C4A	5.30	133.22	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	i9	1001	CYC	CAB-C3B-C4B	5.30	129.75	121.38
13	P8	1001	CYC	CAC-C3C-C4C	-5.30	99.07	112.67
13	R8	1001	CYC	CAC-C3C-C4C	-5.29	99.08	112.67
13	N9	1001	CYC	CAB-C3B-C4B	5.29	129.74	121.38
13	q9	1001	CYC	CAB-C3B-C4B	5.29	129.74	121.38
13	s9	1001	CYC	CAB-C3B-C4B	5.29	129.74	121.38
13	A5	302	CYC	CMA-C3A-C4A	5.29	133.21	125.06
13	F8	1001	CYC	CAC-C3C-C4C	-5.29	99.08	112.67
13	Z9	1001	CYC	CAB-C3B-C4B	5.29	129.74	121.38
13	o9	1001	CYC	CAB-C3B-C4B	5.29	129.73	121.38
13	F7	1001	CYC	CAB-C3B-C4B	5.29	129.73	121.38
13	A3	301	CYC	CHB-C4A-NA	-5.29	113.87	124.93
13	A9	1001	CYC	CAB-C3B-C4B	5.29	129.73	121.38
13	F3	1001	CYC	CAB-C3B-C4B	5.28	129.72	121.38
13	u9	1001	CYC	CAB-C3B-C4B	5.28	129.72	121.38
13	B7	1001	CYC	CAB-C3B-C4B	5.28	129.72	121.38
13	D8	1001	CYC	CAC-C3C-C4C	-5.28	99.11	112.67
13	L6	201	CYC	CAB-C3B-C4B	5.28	129.72	121.38
13	f9	1001	CYC	CAB-C3B-C4B	5.28	129.72	121.38
13	L2	201	CYC	CAB-C3B-C4B	5.28	129.71	121.38
13	Q4	201	CYC	CAB-C3B-C4B	5.28	129.71	121.38
13	Q2	201	CYC	CAB-C3B-C4B	5.27	129.71	121.38
13	b9	1001	CYC	CAB-C3B-C4B	5.27	129.71	121.38
13	X9	1001	CYC	CAB-C3B-C4B	5.27	129.71	121.38
13	A7	301	CYC	CHB-C4A-NA	-5.27	113.90	124.93
13	w9	1001	CYC	CAB-C3B-C4B	5.27	129.71	121.38
13	y9	1001	CYC	CAB-C3B-C4B	5.27	129.71	121.38
13	C6	201	CYC	CHB-C4A-NA	-5.27	113.90	124.93
13	I9	1001	CYC	CAB-C3B-C4B	5.27	129.70	121.38
13	P9	1001	CYC	CAB-C3B-C4B	5.27	129.70	121.38
13	D1	1001	CYC	CHB-C4A-NA	-5.27	113.91	124.93
13	B4	1001	CYC	CAB-C3B-C4B	5.27	129.70	121.38
13	L1	201	CYC	CAB-C3B-C4B	5.27	129.70	121.38
13	C6	201	CYC	CAB-C3B-C4B	5.27	129.69	121.38
13	D4	1001	CYC	CHB-C4A-NA	-5.26	113.92	124.93
13	C2	201	CYC	CHB-C4A-NA	-5.26	113.92	124.93
13	W4	1001	CYC	CHB-C4A-NA	-5.26	113.92	124.93
13	A3	301	CYC	CAB-C3B-C4B	5.26	129.69	121.38
13	W1	1001	CYC	CHB-C4A-NA	-5.26	113.93	124.93
13	R1	1001	CYC	CAB-C3B-C4B	5.26	129.68	121.38
13	F2	1001	CYC	CAB-C3B-C4B	5.26	129.68	121.38
13	B6	1001	CYC	CAB-C3B-C4B	5.26	129.68	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Y6	201	CYC	CHB-C4A-NA	-5.26	113.94	124.93
13	L7	201	CYC	CAB-C3B-C4B	5.25	129.68	121.38
13	W5	1001	CYC	CHB-C4A-NA	-5.25	113.95	124.93
13	Z6	202	CYC	CAB-C3B-C4B	5.25	129.67	121.38
13	J7	1001	CYC	CAB-C3B-C4B	5.25	129.67	121.38
13	O5	1001	CYC	CHB-C4A-NA	-5.25	113.95	124.93
13	R2	1001	CYC	CAB-C3B-C4B	5.25	129.67	121.38
13	V9	201	CYC	CAB-C3B-C4B	5.25	129.67	121.38
13	Q1	201	CYC	CHB-C4A-NA	-5.25	113.96	124.93
13	Y2	201	CYC	CHB-C4A-NA	-5.25	113.96	124.93
13	C4	301	CYC	CAB-C3B-C4B	5.25	129.67	121.38
13	G6	202	CYC	CAB-C3B-C4B	5.25	129.66	121.38
13	B1	1001	CYC	CAB-C3B-C4B	5.25	129.66	121.38
13	C2	201	CYC	CAB-C3B-C4B	5.25	129.66	121.38
13	Q1	201	CYC	CAB-C3B-C4B	5.24	129.66	121.38
13	B4	1001	CYC	CHB-C4A-NA	-5.24	113.96	124.93
13	O4	1001	CYC	CHB-C4A-NA	-5.24	113.96	124.93
13	V9	201	CYC	CHB-C4A-NA	-5.24	113.96	124.93
13	o8	1001	CYC	CMA-C3A-C4A	5.24	133.14	125.06
13	J1	1001	CYC	CAB-C3B-C4B	5.24	129.66	121.38
13	C4	301	CYC	CHB-C4A-NA	-5.24	113.97	124.93
13	L3	201	CYC	CAB-C3B-C4B	5.24	129.66	121.38
13	Y2	201	CYC	CAB-C3B-C4B	5.24	129.65	121.38
13	R4	1001	CYC	CAB-C3B-C4B	5.24	129.65	121.38
13	D6	1001	CYC	CAB-C3B-C4B	5.24	129.65	121.38
13	PA	203	CYC	CAB-C3B-C4B	5.24	129.65	121.38
13	WA	1001	CYC	CHB-C4A-NA	-5.24	113.98	124.93
13	C1	301	CYC	CHB-C4A-NA	-5.24	113.98	124.93
13	I3	201	CYC	CHB-C4A-NA	-5.24	113.98	124.93
13	I7	201	CYC	CHB-C4A-NA	-5.24	113.98	124.93
13	m9	201	CYC	CHB-C4A-NA	-5.24	113.98	124.93
13	LA	201	CYC	CHB-C4A-NA	-5.24	113.98	124.93
13	F6	1001	CYC	CAB-C3B-C4B	5.24	129.65	121.38
13	A7	301	CYC	CAB-C3B-C4B	5.24	129.65	121.38
13	s8	1001	CYC	CMA-C3A-C4A	5.24	133.13	125.06
13	O1	1001	CYC	CHB-C4A-NA	-5.23	113.98	124.93
13	Y6	201	CYC	CAB-C3B-C4B	5.23	129.65	121.38
13	I4	201	CYC	CHB-C4A-NA	-5.23	113.98	124.93
13	SA	1001	CYC	CHB-C4A-NA	-5.23	113.98	124.93
13	C1	301	CYC	CAB-C3B-C4B	5.23	129.65	121.38
13	J4	1001	CYC	CAB-C3B-C4B	5.23	129.65	121.38
13	L4	201	CYC	CAB-C3B-C4B	5.23	129.65	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	F4	1001	CYC	CAB-C3B-C4B	5.23	129.65	121.38
13	D6	1001	CYC	CHB-C4A-NA	-5.23	113.98	124.93
13	G2	202	CYC	CAB-C3B-C4B	5.23	129.64	121.38
13	J6	1001	CYC	CAB-C3B-C4B	5.23	129.64	121.38
13	B2	1001	CYC	CHB-C4A-NA	-5.23	113.99	124.93
13	D5	1001	CYC	CHB-C4A-NA	-5.23	113.99	124.93
13	W2	202	CYC	CHB-C4A-NA	-5.23	113.99	124.93
13	d9	1001	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
13	F2	1001	CYC	CHB-C4A-NA	-5.23	113.99	124.93
13	I2	201	CYC	CHB-C4A-NA	-5.23	113.99	124.93
13	B5	1001	CYC	CHB-C4A-NA	-5.23	113.99	124.93
13	P5	203	CYC	CAB-C3B-C4B	5.23	129.64	121.38
13	B1	1001	CYC	CHB-C4A-NA	-5.23	114.00	124.93
13	B2	1001	CYC	CAB-C3B-C4B	5.23	129.64	121.38
13	YA	201	CYC	CHB-C4A-NA	-5.23	114.00	124.93
13	D4	1001	CYC	CAB-C3B-C4B	5.23	129.63	121.38
13	Q4	201	CYC	CHB-C4A-NA	-5.23	114.00	124.93
13	B6	1001	CYC	CHB-C4A-NA	-5.23	114.00	124.93
13	L2	201	CYC	CHB-C4A-NA	-5.23	114.00	124.93
13	W6	202	CYC	CHB-C4A-NA	-5.23	114.00	124.93
13	F1	1001	CYC	CAB-C3B-C4B	5.23	129.63	121.38
13	R6	1001	CYC	CAB-C3B-C4B	5.23	129.63	121.38
13	D3	1001	CYC	CHB-C4A-NA	-5.23	114.00	124.93
13	OA	1001	CYC	CHB-C4A-NA	-5.23	114.00	124.93
13	q9	1001	CYC	CBD-CAD-C3D	-5.23	103.70	112.62
13	L7	201	CYC	CHB-C4A-NA	-5.22	114.00	124.93
13	F8	1001	CYC	CMA-C3A-C4A	5.22	133.11	125.06
13	R1	1001	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	F3	1001	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	J3	1001	CYC	CAB-C3B-C4B	5.22	129.63	121.38
13	H3	1001	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	B7	1001	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	JA	1001	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	G3	201	CYC	CAB-C3B-C4B	5.22	129.63	121.38
13	L5	201	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	Y5	201	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	I6	201	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	F7	1001	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	D1	1001	CYC	CAB-C3B-C4B	5.22	129.62	121.38
13	S1	1001	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	T4	202	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	T1	202	CYC	CHB-C4A-NA	-5.22	114.01	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	J5	1001	CYC	CAB-C3B-C4B	5.22	129.62	121.38
13	L6	201	CYC	CHB-C4A-NA	-5.22	114.01	124.93
13	GA	1001	CYC	CHB-C4A-NA	-5.22	114.02	124.93
13	D2	1001	CYC	CAB-C3B-C4B	5.22	129.62	121.38
13	J2	1001	CYC	CAB-C3B-C4B	5.22	129.62	121.38
13	Q9	201	CYC	CAB-C3B-C4B	5.22	129.62	121.38
13	D5	1001	CYC	CAB-C3B-C4B	5.22	129.62	121.38
13	Y1	201	CYC	CHB-C4A-NA	-5.22	114.02	124.93
13	N9	1001	CYC	CBD-CAD-C3D	-5.22	103.72	112.62
13	G2	202	CYC	CHB-C4A-NA	-5.22	114.02	124.93
13	Y1	201	CYC	CAB-C3B-C4B	5.22	129.62	121.38
13	N2	302	CYC	CAB-C3B-C4B	5.22	129.62	121.38
13	UA	1001	CYC	CAB-C3B-C4B	5.22	129.62	121.38
13	Y8	1001	CYC	CMA-C3A-C4A	5.22	133.10	125.06
13	H7	1001	CYC	CHB-C4A-NA	-5.22	114.02	124.93
13	UA	1001	CYC	CHB-C4A-NA	-5.22	114.02	124.93
13	U5	1001	CYC	CHB-C4A-NA	-5.22	114.02	124.93
13	k8	1001	CYC	CMA-C3A-C4A	5.22	133.09	125.06
13	k9	1001	CYC	CBD-CAD-C3D	-5.21	103.72	112.62
13	s9	1001	CYC	CBD-CAD-C3D	-5.21	103.72	112.62
13	Z4	202	CYC	CAB-C3B-C4B	5.21	129.62	121.38
13	X1	201	CYC	CAB-C3B-C4B	5.21	129.61	121.38
13	N6	302	CYC	CAB-C3B-C4B	5.21	129.61	121.38
13	D7	1001	CYC	CHB-C4A-NA	-5.21	114.03	124.93
13	B8	1001	CYC	CMA-C3A-C4A	5.21	133.09	125.06
13	B3	1001	CYC	CHB-C4A-NA	-5.21	114.03	124.93
13	b8	1001	CYC	CMA-C3A-C4A	5.21	133.09	125.06
13	G7	201	CYC	CHB-C4A-NA	-5.21	114.03	124.93
13	DA	1001	CYC	CAB-C3B-C4B	5.21	129.61	121.38
13	I9	1001	CYC	CBD-CAD-C3D	-5.21	103.73	112.62
13	D2	1001	CYC	CHB-C4A-NA	-5.21	114.03	124.93
13	I5	201	CYC	CHB-C4A-NA	-5.21	114.03	124.93
13	P8	1001	CYC	CMA-C3A-C4A	5.21	133.09	125.06
13	G3	201	CYC	CHB-C4A-NA	-5.21	114.03	124.93
13	L4	201	CYC	CHB-C4A-NA	-5.21	114.03	124.93
13	Q2	201	CYC	CHB-C4A-NA	-5.21	114.03	124.93
13	Y4	201	CYC	CHB-C4A-NA	-5.21	114.03	124.93
13	XA	201	CYC	CAB-C3B-C4B	5.21	129.61	121.38
13	IA	201	CYC	CHB-C4A-NA	-5.21	114.04	124.93
13	U5	1001	CYC	CAB-C3B-C4B	5.21	129.61	121.38
13	LA	201	CYC	CAB-C3B-C4B	5.21	129.61	121.38
13	TA	201	CYC	CHB-C4A-NA	-5.21	114.04	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Z9	1001	CYC	CBD-CAD-C3D	-5.21	103.73	112.62
13	U6	202	CYC	CHB-C4A-NA	-5.21	114.04	124.93
13	T8	1001	CYC	CMA-C3A-C4A	5.21	133.08	125.06
13	J5	1001	CYC	CHB-C4A-NA	-5.21	114.04	124.93
13	M8	1001	CYC	CMA-C3A-C4A	5.21	133.08	125.06
13	X5	201	CYC	CAB-C3B-C4B	5.21	129.60	121.38
13	T5	201	CYC	CHB-C4A-NA	-5.21	114.04	124.93
13	E5	202	CYC	CHB-C4A-NA	-5.21	114.04	124.93
13	V2	202	CYC	CAB-C3B-C4B	5.21	129.60	121.38
13	W6	202	CYC	CAB-C3B-C4B	5.21	129.60	121.38
13	X9	1001	CYC	CBD-CAD-C3D	-5.21	103.74	112.62
13	M5	1001	CYC	CHB-C4A-NA	-5.21	114.04	124.93
13	TA	201	CYC	CAB-C3B-C4B	5.21	129.60	121.38
13	u9	1001	CYC	CBD-CAD-C3D	-5.20	103.74	112.62
13	w9	1001	CYC	CBD-CAD-C3D	-5.20	103.74	112.62
13	R2	1001	CYC	CHB-C4A-NA	-5.20	114.05	124.93
13	U4	1001	CYC	CAB-C3B-C4B	5.20	129.60	121.38
13	V6	202	CYC	CAB-C3B-C4B	5.20	129.60	121.38
13	f9	1001	CYC	CBD-CAD-C3D	-5.20	103.74	112.62
13	o9	1001	CYC	CBD-CAD-C3D	-5.20	103.74	112.62
13	G7	201	CYC	CAB-C3B-C4B	5.20	129.60	121.38
13	L3	201	CYC	CHB-C4A-NA	-5.20	114.05	124.93
13	DA	1001	CYC	CHB-C4A-NA	-5.20	114.05	124.93
13	VA	201	CYC	CHB-C4A-NA	-5.20	114.05	124.93
13	B5	1001	CYC	CAB-C3B-C4B	5.20	129.60	121.38
13	F6	1001	CYC	CHB-C4A-NA	-5.20	114.05	124.93
13	X6	201	CYC	CAB-C3B-C4B	5.20	129.59	121.38
13	R8	1001	CYC	CMA-C3A-C4A	5.20	133.07	125.06
13	EA	202	CYC	CHB-C4A-NA	-5.20	114.05	124.93
13	A9	1001	CYC	CBD-CAD-C3D	-5.20	103.74	112.62
13	b9	1001	CYC	CBD-CAD-C3D	-5.20	103.74	112.62
13	V1	202	CYC	CHB-C4A-NA	-5.20	114.05	124.93
13	P5	203	CYC	CHB-C4A-NA	-5.20	114.05	124.93
13	P9	1001	CYC	CBD-CAD-C3D	-5.20	103.75	112.62
13	V1	202	CYC	CAB-C3B-C4B	5.20	129.59	121.38
13	V4	202	CYC	CAB-C3B-C4B	5.20	129.59	121.38
13	W4	1001	CYC	CAB-C3B-C4B	5.20	129.59	121.38
13	J2	1001	CYC	CHB-C4A-NA	-5.20	114.06	124.93
13	NA	301	CYC	CHB-C4A-NA	-5.20	114.06	124.93
13	G9	1001	CYC	CBD-CAD-C3D	-5.20	103.75	112.62
13	m9	201	CYC	CAB-C3B-C4B	5.20	129.59	121.38
13	I1	201	CYC	CHB-C4A-NA	-5.20	114.06	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	U4	1001	CYC	CHB-C4A-NA	-5.20	114.06	124.93
13	R9	1001	CYC	CBD-CAD-C3D	-5.20	103.75	112.62
13	U2	202	CYC	CHB-C4A-NA	-5.20	114.06	124.93
13	Z4	202	CYC	CHB-C4A-NA	-5.20	114.06	124.93
13	S5	1001	CYC	CHB-C4A-NA	-5.20	114.06	124.93
13	NA	301	CYC	CAB-C3B-C4B	5.20	129.59	121.38
13	R6	1001	CYC	CHB-C4A-NA	-5.20	114.06	124.93
13	W8	1001	CYC	CMA-C3A-C4A	5.20	133.07	125.06
13	09	1201	CYC	CMA-C3A-C4A	5.20	133.07	125.06
13	MA	1001	CYC	CHB-C4A-NA	-5.20	114.06	124.93
13	U1	1001	CYC	CHB-C4A-NA	-5.20	114.06	124.93
13	JA	1001	CYC	CAB-C3B-C4B	5.20	129.59	121.38
13	A5	304	CYC	CHB-C4A-NA	-5.20	114.06	124.93
13	h8	1001	CYC	CMA-C3A-C4A	5.19	133.06	125.06
13	O4	1001	CYC	CAB-C3B-C4B	5.19	129.58	121.38
13	V6	202	CYC	CHB-C4A-NA	-5.19	114.07	124.93
13	W2	202	CYC	CAB-C3B-C4B	5.19	129.58	121.38
13	K8	1001	CYC	CMA-C3A-C4A	5.19	133.06	125.06
13	R4	1001	CYC	CHB-C4A-NA	-5.19	114.07	124.93
13	PA	203	CYC	CHB-C4A-NA	-5.19	114.07	124.93
13	V2	202	CYC	CHB-C4A-NA	-5.19	114.07	124.93
13	Z2	202	CYC	CAB-C3B-C4B	5.19	129.58	121.38
13	T9	1001	CYC	CBD-CAD-C3D	-5.19	103.76	112.62
13	E5	202	CYC	CAB-C3B-C4B	5.19	129.58	121.38
13	J4	1001	CYC	CHB-C4A-NA	-5.19	114.07	124.93
13	r8	1001	CYC	OB-C4B-C3B	-5.19	122.41	128.04
13	C9	1001	CYC	CBD-CAD-C3D	-5.19	103.76	112.62
13	G1	202	CYC	CAB-C3B-C4B	5.19	129.58	121.38
13	T5	201	CYC	CAB-C3B-C4B	5.19	129.58	121.38
13	GA	1001	CYC	CAB-C3B-C4B	5.19	129.58	121.38
13	H4	1001	CYC	CHB-C4A-NA	-5.19	114.07	124.93
13	X6	201	CYC	CHB-C4A-NA	-5.19	114.07	124.93
13	Z1	202	CYC	CHB-C4A-NA	-5.19	114.07	124.93
13	G6	202	CYC	CHB-C4A-NA	-5.19	114.07	124.93
13	Z6	202	CYC	CHB-C4A-NA	-5.19	114.07	124.93
13	L5	201	CYC	CAB-C3B-C4B	5.19	129.58	121.38
13	S4	1001	CYC	CHB-C4A-NA	-5.19	114.08	124.93
13	X2	201	CYC	CHB-C4A-NA	-5.19	114.08	124.93
13	19	1201	CYC	CMA-C3A-C4A	5.19	133.06	125.06
13	K9	1001	CYC	CBD-CAD-C3D	-5.19	103.76	112.62
13	N2	302	CYC	CHB-C4A-NA	-5.19	114.08	124.93
13	H6	1001	CYC	CHB-C4A-NA	-5.19	114.08	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	X2	201	CYC	CAB-C3B-C4B	5.19	129.57	121.38
13	G4	202	CYC	CAB-C3B-C4B	5.19	129.57	121.38
13	W5	1001	CYC	CAB-C3B-C4B	5.19	129.57	121.38
13	I6	201	CYC	CAB-C3B-C4B	5.19	129.57	121.38
13	AA	304	CYC	CHB-C4A-NA	-5.19	114.08	124.93
13	O6	1001	CYC	CHB-C4A-NA	-5.19	114.08	124.93
13	V4	202	CYC	CHB-C4A-NA	-5.19	114.08	124.93
13	O2	1001	CYC	CHB-C4A-NA	-5.19	114.08	124.93
13	O6	1001	CYC	CAB-C3B-C4B	5.19	129.57	121.38
13	AA	303	CYC	CHB-C4A-NA	-5.19	114.08	124.93
13	Y4	201	CYC	CAB-C3B-C4B	5.18	129.57	121.38
13	T4	202	CYC	CAB-C3B-C4B	5.18	129.57	121.38
13	X4	201	CYC	CAB-C3B-C4B	5.18	129.57	121.38
13	ZA	201	CYC	CAB-C3B-C4B	5.18	129.57	121.38
13	f8	1001	CYC	CMA-C3A-C4A	5.18	133.05	125.06
13	L1	201	CYC	CHB-C4A-NA	-5.18	114.09	124.93
13	A5	303	CYC	CHB-C4A-NA	-5.18	114.09	124.93
13	N6	302	CYC	CHB-C4A-NA	-5.18	114.09	124.93
13	E9	1001	CYC	CBD-CAD-C3D	-5.18	103.77	112.62
13	y9	1001	CYC	CBD-CAD-C3D	-5.18	103.77	112.62
13	M5	1001	CYC	CAB-C3B-C4B	5.18	129.57	121.38
13	C8	1001	CYC	OB-C4B-C3B	-5.18	122.42	128.04
13	d8	1001	CYC	CMA-C3A-C4A	5.18	133.05	125.06
13	D7	1001	CYC	CAB-C3B-C4B	5.18	129.56	121.38
13	V5	201	CYC	CHB-C4A-NA	-5.18	114.09	124.93
13	O5	1001	CYC	CAB-C3B-C4B	5.18	129.56	121.38
13	Y5	201	CYC	CAB-C3B-C4B	5.18	129.56	121.38
13	J1	1001	CYC	CHB-C4A-NA	-5.18	114.10	124.93
13	O2	1001	CYC	CAB-C3B-C4B	5.18	129.56	121.38
13	I8	1001	CYC	CMA-C3A-C4A	5.18	133.04	125.06
13	I5	201	CYC	CAB-C3B-C4B	5.18	129.56	121.38
13	V8	1001	CYC	OB-C4B-C3B	-5.18	122.42	128.04
13	N5	301	CYC	CAB-C3B-C4B	5.18	129.56	121.38
13	EA	202	CYC	CAB-C3B-C4B	5.18	129.56	121.38
13	WA	1001	CYC	CAB-C3B-C4B	5.18	129.56	121.38
13	X1	201	CYC	CHB-C4A-NA	-5.18	114.10	124.93
13	MA	1001	CYC	CAB-C3B-C4B	5.18	129.56	121.38
13	D8	1001	CYC	CMA-C3A-C4A	5.18	133.03	125.06
13	Q6	201	CYC	CHB-C4A-NA	-5.18	114.11	124.93
13	AA	304	CYC	CAB-C3B-C4B	5.18	129.55	121.38
13	G4	202	CYC	CHB-C4A-NA	-5.18	114.11	124.93
13	N5	301	CYC	CHB-C4A-NA	-5.18	114.11	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	SA	1001	CYC	CAB-C3B-C4B	5.18	129.55	121.38
13	i9	1001	CYC	CBD-CAD-C3D	-5.17	103.79	112.62
13	Z1	202	CYC	CAB-C3B-C4B	5.17	129.55	121.38
13	Z5	201	CYC	CHB-C4A-NA	-5.17	114.11	124.93
13	G1	202	CYC	CHB-C4A-NA	-5.17	114.11	124.93
13	D3	1001	CYC	CAB-C3B-C4B	5.17	129.55	121.38
13	X8	1001	CYC	OB-C4B-C3B	-5.17	122.43	128.04
13	q8	1001	CYC	CMA-C3A-C4A	5.17	133.03	125.06
13	ZA	201	CYC	CHB-C4A-NA	-5.17	114.12	124.93
13	H2	1001	CYC	CHB-C4A-NA	-5.17	114.12	124.93
13	E8	1001	CYC	OB-C4B-C3B	-5.17	122.43	128.04
13	J3	1001	CYC	CHB-C4A-NA	-5.17	114.12	124.93
13	p8	1001	CYC	OB-C4B-C3B	-5.17	122.43	128.04
13	I2	201	CYC	CAB-C3B-C4B	5.17	129.54	121.38
13	I4	201	CYC	CAB-C3B-C4B	5.17	129.54	121.38
13	J6	1001	CYC	CHB-C4A-NA	-5.17	114.12	124.93
13	A5	304	CYC	CAB-C3B-C4B	5.17	129.54	121.38
13	S6	1001	CYC	CAB-C3B-C4B	5.17	129.54	121.38
13	Z2	202	CYC	CHB-C4A-NA	-5.17	114.13	124.93
13	I3	201	CYC	CAB-C3B-C4B	5.16	129.54	121.38
13	X4	201	CYC	CHB-C4A-NA	-5.16	114.13	124.93
13	H1	1001	CYC	CHB-C4A-NA	-5.16	114.13	124.93
13	F4	1001	CYC	CHB-C4A-NA	-5.16	114.13	124.93
13	S4	1001	CYC	CAB-C3B-C4B	5.16	129.53	121.38
13	J7	1001	CYC	CHB-C4A-NA	-5.16	114.14	124.93
13	W1	1001	CYC	CAB-C3B-C4B	5.16	129.53	121.38
13	F1	1001	CYC	CHB-C4A-NA	-5.16	114.14	124.93
13	B8	1001	CYC	CHB-C4A-NA	-5.16	114.14	124.93
13	OA	1001	CYC	CAB-C3B-C4B	5.16	129.53	121.38
13	Z8	1001	CYC	OB-C4B-C3B	-5.16	122.44	128.04
13	XA	201	CYC	CHB-C4A-NA	-5.16	114.14	124.93
13	A8	1001	CYC	OB-C4B-C3B	-5.16	122.44	128.04
13	I7	201	CYC	CAB-C3B-C4B	5.16	129.52	121.38
13	H1	1001	CYC	CAB-C3B-C4B	5.16	129.52	121.38
13	f8	1001	CYC	CHB-C4A-NA	-5.16	114.15	124.93
13	Z5	201	CYC	CAB-C3B-C4B	5.15	129.52	121.38
13	S5	1001	CYC	CAB-C3B-C4B	5.15	129.52	121.38
13	d8	1001	CYC	CHB-C4A-NA	-5.15	114.15	124.93
13	IA	201	CYC	CAB-C3B-C4B	5.15	129.52	121.38
13	S2	1001	CYC	CHB-C4A-NA	-5.15	114.15	124.93
13	U1	1001	CYC	CAB-C3B-C4B	5.15	129.52	121.38
13	D8	1001	CYC	CHB-C4A-NA	-5.15	114.16	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	s8	1001	CYC	CHB-C4A-NA	-5.15	114.16	124.93
13	I1	201	CYC	CAB-C3B-C4B	5.15	129.51	121.38
13	T1	202	CYC	CAB-C3B-C4B	5.15	129.51	121.38
13	X5	201	CYC	CHB-C4A-NA	-5.15	114.16	124.93
13	h8	1001	CYC	CHB-C4A-NA	-5.15	114.16	124.93
13	M8	1001	CYC	CHB-C4A-NA	-5.15	114.16	124.93
13	S6	1001	CYC	CHB-C4A-NA	-5.15	114.17	124.93
13	H7	1001	CYC	CAB-C3B-C4B	5.15	129.51	121.38
13	g8	1001	CYC	OB-C4B-C3B	-5.15	122.46	128.04
13	k8	1001	CYC	CHB-C4A-NA	-5.15	114.17	124.93
13	n8	1001	CYC	OB-C4B-C3B	-5.14	122.46	128.04
13	H4	1001	CYC	CAB-C3B-C4B	5.14	129.50	121.38
13	U2	202	CYC	CAB-C3B-C4B	5.14	129.50	121.38
13	S1	1001	CYC	CAB-C3B-C4B	5.14	129.50	121.38
13	U6	202	CYC	CAB-C3B-C4B	5.14	129.50	121.38
13	q8	1001	CYC	CHB-C4A-NA	-5.14	114.18	124.93
13	Y8	1001	CYC	CHB-C4A-NA	-5.14	114.18	124.93
13	YA	201	CYC	CAB-C3B-C4B	5.14	129.50	121.38
13	S8	1001	CYC	OB-C4B-C3B	-5.14	122.46	128.04
13	R8	1001	CYC	CHB-C4A-NA	-5.14	114.19	124.93
13	T8	1001	CYC	CHB-C4A-NA	-5.14	114.19	124.93
13	o8	1001	CYC	CHB-C4A-NA	-5.14	114.19	124.93
13	L8	1001	CYC	OB-C4B-C3B	-5.14	122.47	128.04
13	t8	1001	CYC	OB-C4B-C3B	-5.14	122.47	128.04
13	09	1201	CYC	CHB-C4A-NA	-5.13	114.19	124.93
13	F8	1001	CYC	CHB-C4A-NA	-5.13	114.19	124.93
13	K8	1001	CYC	CHB-C4A-NA	-5.13	114.20	124.93
13	e8	1001	CYC	OB-C4B-C3B	-5.13	122.47	128.04
13	j8	1001	CYC	OB-C4B-C3B	-5.13	122.47	128.04
13	c8	1001	CYC	OB-C4B-C3B	-5.13	122.47	128.04
13	S2	1001	CYC	CAB-C3B-C4B	5.13	129.48	121.38
13	O1	1001	CYC	CAB-C3B-C4B	5.13	129.48	121.38
13	19	1201	CYC	CHB-C4A-NA	-5.13	114.21	124.93
13	W8	1001	CYC	CHB-C4A-NA	-5.13	114.21	124.93
13	b8	1001	CYC	CHB-C4A-NA	-5.13	114.21	124.93
13	P8	1001	CYC	CHB-C4A-NA	-5.12	114.21	124.93
13	I8	1001	CYC	CHB-C4A-NA	-5.12	114.22	124.93
13	H2	1001	CYC	CAB-C3B-C4B	5.12	129.46	121.38
13	H3	1001	CYC	CAB-C3B-C4B	5.12	129.46	121.38
13	e8	1001	CYC	CHA-C1A-NA	-5.12	121.73	128.83
13	H6	1001	CYC	CAB-C3B-C4B	5.12	129.46	121.38
13	J8	1001	CYC	OB-C4B-C3B	-5.11	122.49	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	H8	1001	CYC	OB-C4B-C3B	-5.11	122.49	128.04
13	A5	303	CYC	CAB-C3B-C4B	5.11	129.45	121.38
13	X8	1001	CYC	CHA-C1A-NA	-5.11	121.74	128.83
13	l8	1001	CYC	OB-C4B-C3B	-5.11	122.50	128.04
13	Q8	1001	CYC	OB-C4B-C3B	-5.10	122.50	128.04
13	V8	1001	CYC	CHA-C1A-NA	-5.10	121.75	128.83
13	V8	1001	CYC	CAB-C3B-C4B	5.09	129.43	121.38
13	O8	1001	CYC	OB-C4B-C3B	-5.09	122.51	128.04
13	c8	1001	CYC	CAB-C3B-C4B	5.09	129.42	121.38
13	e8	1001	CYC	CAB-C3B-C4B	5.09	129.42	121.38
13	X8	1001	CYC	CAB-C3B-C4B	5.09	129.42	121.38
13	C8	1001	CYC	CAB-C3B-C4B	5.09	129.42	121.38
13	g8	1001	CYC	CHA-C1A-NA	-5.09	121.77	128.83
13	j8	1001	CYC	CAB-C3B-C4B	5.09	129.41	121.38
13	g9	1001	CYC	OB-C4B-C3B	-5.09	122.52	128.04
13	O8	1001	CYC	CHA-C1A-NA	-5.08	121.78	128.83
13	AA	303	CYC	CAB-C3B-C4B	5.08	129.41	121.38
13	n8	1001	CYC	CHA-C1A-NA	-5.08	121.78	128.83
13	Z8	1001	CYC	CAB-C3B-C4B	5.08	129.41	121.38
13	p8	1001	CYC	CAB-C3B-C4B	5.08	129.41	121.38
13	t8	1001	CYC	CAB-C3B-C4B	5.08	129.40	121.38
13	r8	1001	CYC	CHA-C1A-NA	-5.08	121.78	128.83
13	r8	1001	CYC	CAB-C3B-C4B	5.08	129.40	121.38
13	E8	1001	CYC	CAB-C3B-C4B	5.08	129.40	121.38
13	S8	1001	CYC	CAB-C3B-C4B	5.08	129.40	121.38
13	A8	1001	CYC	CHA-C1A-NA	-5.08	121.79	128.83
13	c8	1001	CYC	CHA-C1A-NA	-5.07	121.79	128.83
13	t8	1001	CYC	CHA-C1A-NA	-5.07	121.79	128.83
13	A8	1001	CYC	CAB-C3B-C4B	5.07	129.39	121.38
13	H8	1001	CYC	CHA-C1A-NA	-5.07	121.79	128.83
13	L8	1001	CYC	CAB-C3B-C4B	5.07	129.39	121.38
13	E8	1001	CYC	CHA-C1A-NA	-5.07	121.80	128.83
13	S8	1001	CYC	CHA-C1A-NA	-5.07	121.80	128.83
13	g8	1001	CYC	CAB-C3B-C4B	5.07	129.38	121.38
13	n8	1001	CYC	CAB-C3B-C4B	5.07	129.38	121.38
13	L8	1001	CYC	CHA-C1A-NA	-5.07	121.80	128.83
13	Q8	1001	CYC	CHA-C1A-NA	-5.07	121.80	128.83
13	C8	1001	CYC	CHA-C1A-NA	-5.07	121.80	128.83
13	Z8	1001	CYC	CHA-C1A-NA	-5.07	121.80	128.83
13	V5	201	CYC	CAB-C3B-C4B	5.06	129.38	121.38
13	l8	1001	CYC	CAB-C3B-C4B	5.06	129.38	121.38
13	H8	1001	CYC	CAB-C3B-C4B	5.06	129.37	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	l8	1001	CYC	CHA-C1A-NA	-5.06	121.81	128.83
13	J8	1001	CYC	CAB-C3B-C4B	5.05	129.36	121.38
13	J8	1001	CYC	CHA-C1A-NA	-5.05	121.82	128.83
13	p8	1001	CYC	CHA-C1A-NA	-5.05	121.82	128.83
13	O8	1001	CYC	CAB-C3B-C4B	5.05	129.36	121.38
13	j8	1001	CYC	CHA-C1A-NA	-5.05	121.83	128.83
13	09	1202	CYC	CAB-C3B-C4B	5.05	129.35	121.38
13	Q8	1001	CYC	CAB-C3B-C4B	5.03	129.33	121.38
13	VA	201	CYC	CAB-C3B-C4B	5.03	129.33	121.38
13	I5	201	CYC	CHD-C4C-NC	5.02	131.17	125.20
13	IA	201	CYC	CHD-C4C-NC	5.02	131.17	125.20
13	I6	201	CYC	CHD-C4C-NC	5.01	131.16	125.20
13	T9	1001	CYC	OB-C4B-C3B	-5.01	122.61	128.04
13	K9	1001	CYC	OB-C4B-C3B	-5.00	122.62	128.04
13	Z9	1001	CYC	OB-C4B-C3B	-5.00	122.62	128.04
13	s9	1001	CYC	OB-C4B-C3B	-4.99	122.62	128.04
13	I2	201	CYC	CHD-C4C-NC	4.99	131.13	125.20
13	I7	201	CYC	CHD-C4C-NC	4.98	131.13	125.20
13	I3	201	CYC	CHD-C4C-NC	4.98	131.13	125.20
13	P9	1001	CYC	OB-C4B-C3B	-4.98	122.63	128.04
13	k9	1001	CYC	OB-C4B-C3B	-4.98	122.64	128.04
13	E9	1001	CYC	OB-C4B-C3B	-4.97	122.64	128.04
13	R9	1001	CYC	OB-C4B-C3B	-4.97	122.65	128.04
13	Z5	201	CYC	CHD-C4C-NC	4.97	131.11	125.20
13	19	1202	CYC	CAB-C3B-C4B	4.97	129.22	121.38
13	I9	1001	CYC	OB-C4B-C3B	-4.97	122.65	128.04
13	09	1202	CYC	OB-C4B-C3B	-4.97	122.65	128.04
13	I4	201	CYC	CHD-C4C-NC	4.97	131.11	125.20
13	b9	1001	CYC	OB-C4B-C3B	-4.96	122.65	128.04
13	N9	1001	CYC	OB-C4B-C3B	-4.96	122.66	128.04
13	G9	1001	CYC	OB-C4B-C3B	-4.96	122.66	128.04
13	C9	1001	CYC	OB-C4B-C3B	-4.96	122.66	128.04
13	o9	1001	CYC	OB-C4B-C3B	-4.96	122.66	128.04
13	d9	1001	CYC	OB-C4B-C3B	-4.96	122.66	128.04
13	q9	1001	CYC	OB-C4B-C3B	-4.95	122.66	128.04
13	i9	1001	CYC	OB-C4B-C3B	-4.95	122.66	128.04
13	X5	201	CYC	CHD-C4C-NC	4.95	131.09	125.20
13	X9	1001	CYC	OB-C4B-C3B	-4.95	122.67	128.04
13	w9	1001	CYC	OB-C4B-C3B	-4.95	122.67	128.04
13	I1	201	CYC	CHD-C4C-NC	4.95	131.09	125.20
13	A9	1001	CYC	OB-C4B-C3B	-4.95	122.67	128.04
13	XA	201	CYC	CHD-C4C-NC	4.95	131.09	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	ZA	201	CYC	CHD-C4C-NC	4.95	131.09	125.20
13	f9	1001	CYC	OB-C4B-C3B	-4.94	122.68	128.04
13	y9	1001	CYC	OB-C4B-C3B	-4.94	122.68	128.04
13	u9	1001	CYC	OB-C4B-C3B	-4.92	122.70	128.04
13	B9	1001	CYC	C2B-C1B-NB	4.91	114.18	106.99
13	r9	1001	CYC	C2B-C1B-NB	4.91	114.17	106.99
13	x9	1001	CYC	C2B-C1B-NB	4.91	114.17	106.99
13	j9	1001	CYC	C2B-C1B-NB	4.90	114.17	106.99
13	c9	1001	CYC	C2B-C1B-NB	4.90	114.16	106.99
13	AA	304	CYC	CHD-C4C-NC	4.90	131.03	125.20
13	l9	1001	CYC	C2B-C1B-NB	4.89	114.15	106.99
13	19	1203	CYC	C2B-C1B-NB	4.89	114.15	106.99
13	A5	304	CYC	CHD-C4C-NC	4.89	131.02	125.20
13	z9	1001	CYC	C2B-C1B-NB	4.89	114.15	106.99
13	19	1204	CYC	C2B-C1B-NB	4.89	114.14	106.99
13	19	1205	CYC	C2B-C1B-NB	4.89	114.14	106.99
13	29	1001	CYC	C2B-C1B-NB	4.89	114.14	106.99
13	H9	1001	CYC	C2B-C1B-NB	4.88	114.14	106.99
13	O9	1001	CYC	C2B-C1B-NB	4.88	114.14	106.99
13	09	1203	CYC	C2B-C1B-NB	4.88	114.14	106.99
13	e9	1001	CYC	C2B-C1B-NB	4.88	114.14	106.99
13	S9	1001	CYC	C2B-C1B-NB	4.88	114.13	106.99
13	p9	1001	CYC	C2B-C1B-NB	4.88	114.13	106.99
13	v9	1001	CYC	C2B-C1B-NB	4.88	114.13	106.99
13	L9	1001	CYC	C2B-C1B-NB	4.87	114.12	106.99
13	T5	201	CYC	CHD-C4C-NC	4.87	130.99	125.20
13	X2	201	CYC	CHD-C4C-NC	4.86	130.99	125.20
13	X4	201	CYC	CHD-C4C-NC	4.86	130.99	125.20
13	D9	1001	CYC	C2B-C1B-NB	4.86	114.10	106.99
13	t9	1001	CYC	C2B-C1B-NB	4.86	114.10	106.99
13	39	1001	CYC	C2B-C1B-NB	4.86	114.10	106.99
13	X6	201	CYC	CHD-C4C-NC	4.86	130.98	125.20
13	J9	1001	CYC	C2B-C1B-NB	4.86	114.10	106.99
13	U9	1001	CYC	C2B-C1B-NB	4.85	114.09	106.99
13	H9	1001	CYC	CHB-C4A-NA	-4.85	114.79	124.93
13	F9	1001	CYC	C2B-C1B-NB	4.85	114.08	106.99
13	N5	301	CYC	CHD-C4C-NC	4.85	130.97	125.20
13	09	1202	CYC	C2B-C1B-NB	4.85	114.08	106.99
13	O9	1001	CYC	CHB-C4A-NA	-4.84	114.80	124.93
13	19	1203	CYC	CHB-C4A-NA	-4.84	114.81	124.93
13	D9	1001	CYC	CHB-C4A-NA	-4.84	114.81	124.93
13	X1	201	CYC	CHD-C4C-NC	4.84	130.96	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	U9	1001	CYC	CHB-C4A-NA	-4.84	114.82	124.93
13	e9	1001	CYC	CHB-C4A-NA	-4.83	114.82	124.93
13	j9	1001	CYC	CHB-C4A-NA	-4.83	114.83	124.93
13	S9	1001	CYC	CHB-C4A-NA	-4.83	114.84	124.93
13	z9	1001	CYC	CHB-C4A-NA	-4.83	114.84	124.93
13	p9	1001	CYC	CHB-C4A-NA	-4.83	114.84	124.93
13	TA	201	CYC	CHD-C4C-NC	4.83	130.94	125.20
13	r9	1001	CYC	CHB-C4A-NA	-4.82	114.84	124.93
13	c9	1001	CYC	CHB-C4A-NA	-4.82	114.84	124.93
13	v9	1001	CYC	CHB-C4A-NA	-4.82	114.84	124.93
13	19	1204	CYC	CHB-C4A-NA	-4.82	114.85	124.93
13	F9	1001	CYC	CHB-C4A-NA	-4.82	114.85	124.93
13	B9	1001	CYC	CHB-C4A-NA	-4.82	114.85	124.93
13	x9	1001	CYC	CHB-C4A-NA	-4.82	114.85	124.93
13	19	1205	CYC	CHB-C4A-NA	-4.82	114.85	124.93
13	09	1203	CYC	CHB-C4A-NA	-4.82	114.86	124.93
13	X1	201	CYC	OC-C1C-NC	4.82	130.78	124.94
13	l9	1001	CYC	CHB-C4A-NA	-4.82	114.86	124.93
13	29	1001	CYC	CHB-C4A-NA	-4.82	114.86	124.93
13	J9	1001	CYC	CHB-C4A-NA	-4.81	114.86	124.93
13	t9	1001	CYC	CHB-C4A-NA	-4.81	114.87	124.93
13	X6	201	CYC	OC-C1C-NC	4.81	130.76	124.94
13	L9	1001	CYC	CHB-C4A-NA	-4.81	114.88	124.93
13	39	1001	CYC	CHB-C4A-NA	-4.80	114.89	124.93
13	19	1202	CYC	C1B-C2B-C3B	-4.80	102.86	107.87
13	X4	201	CYC	OC-C1C-NC	4.79	130.75	124.94
13	X2	201	CYC	OC-C1C-NC	4.79	130.74	124.94
13	NA	301	CYC	CHD-C4C-NC	4.79	130.90	125.20
13	X5	201	CYC	OC-C1C-NC	4.77	130.72	124.94
13	I7	201	CYC	OC-C1C-NC	4.77	130.72	124.94
13	XA	201	CYC	OC-C1C-NC	4.77	130.71	124.94
13	S9	1001	CYC	OB-C4B-NB	-4.75	114.03	125.08
13	I1	201	CYC	OC-C1C-NC	4.75	130.70	124.94
13	I3	201	CYC	OC-C1C-NC	4.75	130.70	124.94
13	z9	1001	CYC	OB-C4B-NB	-4.75	114.04	125.08
13	A5	303	CYC	CHD-C4C-NC	4.75	130.85	125.20
13	39	1001	CYC	OB-C4B-NB	-4.75	114.04	125.08
13	IA	201	CYC	OC-C1C-NC	4.75	130.69	124.94
13	I4	201	CYC	OC-C1C-NC	4.75	130.69	124.94
13	x9	1001	CYC	OB-C4B-NB	-4.74	114.06	125.08
13	AA	301	CYC	CHD-C4C-NC	4.74	130.84	125.20
13	19	1205	CYC	OB-C4B-NB	-4.74	114.06	125.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	09	1203	CYC	OB-C4B-NB	-4.74	114.06	125.08
13	v9	1001	CYC	OB-C4B-NB	-4.74	114.07	125.08
13	F9	1001	CYC	OB-C4B-NB	-4.73	114.07	125.08
13	J9	1001	CYC	OB-C4B-NB	-4.73	114.07	125.08
13	ZA	201	CYC	OC-C1C-NC	4.73	130.68	124.94
13	O9	1001	CYC	OB-C4B-NB	-4.73	114.08	125.08
13	p9	1001	CYC	OB-C4B-NB	-4.73	114.08	125.08
13	B9	1001	CYC	OB-C4B-NB	-4.73	114.08	125.08
13	I5	201	CYC	OC-C1C-NC	4.73	130.67	124.94
13	AA	303	CYC	CHD-C4C-NC	4.73	130.83	125.20
13	c9	1001	CYC	OB-C4B-NB	-4.73	114.09	125.08
13	l9	1001	CYC	OB-C4B-NB	-4.73	114.09	125.08
13	19	1204	CYC	OB-C4B-NB	-4.73	114.09	125.08
13	Z5	201	CYC	OC-C1C-NC	4.73	130.66	124.94
13	s9	1001	CYC	OC-C1C-C2C	-4.73	122.42	126.17
13	L9	1001	CYC	OB-C4B-NB	-4.72	114.09	125.08
13	U9	1001	CYC	OB-C4B-NB	-4.72	114.09	125.08
13	j9	1001	CYC	CHB-C1B-C2B	-4.72	117.59	126.95
13	H9	1001	CYC	OB-C4B-NB	-4.72	114.10	125.08
13	c9	1001	CYC	CHB-C1B-C2B	-4.72	117.59	126.95
13	19	1205	CYC	CHB-C1B-C2B	-4.72	117.59	126.95
13	g9	1001	CYC	CAB-C3B-C4B	4.72	128.84	121.38
13	r9	1001	CYC	CHB-C1B-C2B	-4.72	117.59	126.95
13	j9	1001	CYC	OB-C4B-NB	-4.72	114.10	125.08
13	29	1001	CYC	OB-C4B-NB	-4.72	114.11	125.08
13	H9	1001	CYC	CHB-C1B-C2B	-4.72	117.60	126.95
13	r9	1001	CYC	OB-C4B-NB	-4.72	114.11	125.08
13	e9	1001	CYC	CHB-C1B-C2B	-4.72	117.60	126.95
13	19	1203	CYC	OB-C4B-NB	-4.72	114.11	125.08
13	19	1203	CYC	CHB-C1B-C2B	-4.72	117.60	126.95
13	E7	201	CYC	CHD-C4C-NC	4.72	130.81	125.20
13	N5	301	CYC	OC-C1C-NC	4.72	130.65	124.94
13	G9	1001	CYC	OC-C1C-C2C	-4.72	122.42	126.17
13	J9	1001	CYC	CHB-C1B-C2B	-4.71	117.61	126.95
13	t9	1001	CYC	OB-C4B-NB	-4.71	114.12	125.08
13	D9	1001	CYC	OB-C4B-NB	-4.71	114.12	125.08
13	z9	1001	CYC	CHB-C1B-C2B	-4.71	117.61	126.95
13	e9	1001	CYC	OB-C4B-NB	-4.71	114.12	125.08
13	19	1204	CYC	CHB-C1B-C2B	-4.71	117.62	126.95
13	B9	1001	CYC	CHB-C1B-C2B	-4.71	117.62	126.95
13	F9	1001	CYC	CHB-C1B-C2B	-4.70	117.63	126.95
13	E3	201	CYC	CHD-C4C-NC	4.70	130.80	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	l9	1001	CYC	CHB-C1B-C2B	-4.70	117.63	126.95
13	S9	1001	CYC	CHB-C1B-C2B	-4.70	117.64	126.95
13	x9	1001	CYC	CHB-C1B-C2B	-4.70	117.64	126.95
13	i9	1001	CYC	OC-C1C-C2C	-4.70	122.44	126.17
13	A5	301	CYC	CHD-C4C-NC	4.70	130.79	125.20
13	09	1203	CYC	CHB-C1B-C2B	-4.70	117.64	126.95
13	E6	201	CYC	CHD-C4C-NC	4.70	130.79	125.20
13	D9	1001	CYC	CHB-C1B-C2B	-4.69	117.65	126.95
13	v9	1001	CYC	CHB-C1B-C2B	-4.69	117.65	126.95
13	O9	1001	CYC	CHB-C1B-C2B	-4.69	117.66	126.95
13	AA	302	CYC	CHD-C4C-NC	4.69	130.78	125.20
13	L9	1001	CYC	CHB-C1B-C2B	-4.69	117.66	126.95
13	p9	1001	CYC	CHB-C1B-C2B	-4.69	117.66	126.95
13	E2	201	CYC	CHD-C4C-NC	4.69	130.78	125.20
13	g9	1001	CYC	OC-C1C-C2C	-4.68	122.45	126.17
13	29	1001	CYC	CHB-C1B-C2B	-4.68	117.67	126.95
13	VA	201	CYC	CHD-C4C-NC	4.68	130.77	125.20
13	t9	1001	CYC	CHB-C1B-C2B	-4.68	117.67	126.95
13	u9	1001	CYC	OC-C1C-C2C	-4.68	122.45	126.17
13	A5	302	CYC	CHD-C4C-NC	4.68	130.77	125.20
13	V5	201	CYC	CHD-C4C-NC	4.68	130.76	125.20
13	U9	1001	CYC	CHB-C1B-C2B	-4.68	117.68	126.95
13	I2	201	CYC	OC-C1C-NC	4.68	130.60	124.94
13	39	1001	CYC	CHB-C1B-C2B	-4.67	117.69	126.95
13	I6	201	CYC	OC-C1C-NC	4.67	130.60	124.94
13	NA	301	CYC	OC-C1C-NC	4.67	130.59	124.94
13	X9	1001	CYC	OC-C1C-C2C	-4.65	122.47	126.17
13	E4	201	CYC	CHD-C4C-NC	4.65	130.73	125.20
13	o9	1001	CYC	OC-C1C-C2C	-4.65	122.48	126.17
13	w9	1001	CYC	OC-C1C-C2C	-4.65	122.48	126.17
13	A9	1001	CYC	OC-C1C-C2C	-4.64	122.48	126.17
13	R9	1001	CYC	OC-C1C-C2C	-4.64	122.48	126.17
13	k9	1001	CYC	OC-C1C-C2C	-4.64	122.48	126.17
13	Z9	1001	CYC	OC-C1C-C2C	-4.64	122.49	126.17
13	f9	1001	CYC	OC-C1C-C2C	-4.64	122.49	126.17
13	q9	1001	CYC	OC-C1C-C2C	-4.64	122.49	126.17
13	TA	201	CYC	OC-C1C-NC	4.64	130.56	124.94
13	C9	1001	CYC	OC-C1C-C2C	-4.63	122.49	126.17
13	N9	1001	CYC	OC-C1C-C2C	-4.63	122.49	126.17
13	d9	1001	CYC	OC-C1C-C2C	-4.63	122.49	126.17
13	y9	1001	CYC	OC-C1C-C2C	-4.63	122.49	126.17
13	b9	1001	CYC	OC-C1C-C2C	-4.63	122.49	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	T5	201	CYC	OC-C1C-NC	4.62	130.54	124.94
13	P9	1001	CYC	OC-C1C-C2C	-4.62	122.50	126.17
13	VA	201	CYC	OC-C1C-NC	4.62	130.54	124.94
13	E1	201	CYC	CHD-C4C-NC	4.61	130.69	125.20
13	T9	1001	CYC	OC-C1C-C2C	-4.61	122.51	126.17
13	E9	1001	CYC	OC-C1C-C2C	-4.61	122.51	126.17
13	I9	1001	CYC	OC-C1C-C2C	-4.61	122.51	126.17
13	K9	1001	CYC	OC-C1C-C2C	-4.60	122.51	126.17
13	I3	201	CYC	CHB-C4A-C3A	4.60	136.72	124.90
13	B3	1001	CYC	OB-C4B-C3B	-4.59	123.06	128.04
13	I7	201	CYC	CHB-C4A-C3A	4.59	136.70	124.90
13	I6	201	CYC	CHB-C4A-C3A	4.59	136.69	124.90
13	I2	201	CYC	CHB-C4A-C3A	4.57	136.66	124.90
13	B7	1001	CYC	OB-C4B-C3B	-4.57	123.08	128.04
13	A5	303	CYC	OC-C1C-NC	4.57	130.47	124.94
13	I4	201	CYC	CHB-C4A-C3A	4.57	136.64	124.90
13	y9	1001	CYC	CMB-C2B-C1B	4.56	129.87	124.17
13	C2	201	CYC	OB-C4B-C3B	-4.56	123.09	128.04
13	X9	1001	CYC	C2B-C1B-NB	4.56	113.67	106.99
13	19	1202	CYC	CHD-C4C-NC	4.56	130.63	125.20
13	A5	304	CYC	CHB-C4A-C3A	4.56	136.63	124.90
13	D6	1001	CYC	OB-C4B-C3B	-4.56	123.09	128.04
13	w9	1001	CYC	CMB-C2B-C1B	4.56	129.86	124.17
13	V5	201	CYC	OC-C1C-NC	4.56	130.47	124.94
13	E2	201	CYC	CMB-C2B-C1B	4.56	129.86	124.17
13	E9	1001	CYC	C2B-C1B-NB	4.56	113.66	106.99
13	E1	201	CYC	CMB-C2B-C1B	4.56	129.86	124.17
13	B1	1001	CYC	OB-C4B-C3B	-4.56	123.10	128.04
13	C9	1001	CYC	C2B-C1B-NB	4.55	113.66	106.99
13	y9	1001	CYC	C2B-C1B-NB	4.55	113.66	106.99
13	N2	302	CYC	OB-C4B-C3B	-4.55	123.10	128.04
13	I5	201	CYC	CHB-C4A-C3A	4.55	136.61	124.90
13	X9	1001	CYC	CMB-C2B-C1B	4.55	129.85	124.17
13	D3	1001	CYC	OB-C4B-C3B	-4.55	123.10	128.04
13	G9	1001	CYC	CMB-C2B-C1B	4.55	129.85	124.17
13	TA	201	CYC	CHB-C4A-C3A	4.55	136.60	124.90
13	F7	1001	CYC	OB-C4B-C3B	-4.55	123.10	128.04
13	AA	303	CYC	OC-C1C-NC	4.55	130.45	124.94
13	X6	201	CYC	CHB-C4A-C3A	4.55	136.59	124.90
13	F3	1001	CYC	OB-C4B-C3B	-4.55	123.11	128.04
13	f9	1001	CYC	CMB-C2B-C1B	4.55	129.84	124.17
13	G3	201	CYC	OB-C4B-C3B	-4.55	123.11	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	k9	1001	CYC	CMB-C2B-C1B	4.55	129.84	124.17
13	IA	201	CYC	CHB-C4A-C3A	4.54	136.59	124.90
13	C9	1001	CYC	CMB-C2B-C1B	4.54	129.84	124.17
13	w9	1001	CYC	C2B-C1B-NB	4.54	113.64	106.99
13	o9	1001	CYC	C2B-C1B-NB	4.54	113.64	106.99
13	k9	1001	CYC	C2B-C1B-NB	4.54	113.64	106.99
13	C4	301	CYC	OB-C4B-C3B	-4.54	123.11	128.04
13	X4	201	CYC	CHB-C4A-C3A	4.54	136.58	124.90
13	X1	201	CYC	CHB-C4A-C3A	4.54	136.58	124.90
13	X2	201	CYC	CHB-C4A-C3A	4.54	136.58	124.90
13	D7	1001	CYC	OB-C4B-C3B	-4.54	123.11	128.04
13	I1	201	CYC	CHB-C4A-C3A	4.54	136.57	124.90
13	Z9	1001	CYC	CMB-C2B-C1B	4.54	129.83	124.17
13	N6	302	CYC	OB-C4B-C3B	-4.54	123.12	128.04
13	UA	1001	CYC	OB-C4B-C3B	-4.54	123.12	128.04
13	G9	1001	CYC	C2B-C1B-NB	4.54	113.63	106.99
13	T5	201	CYC	CHB-C4A-C3A	4.54	136.56	124.90
13	09	1202	CYC	C1B-NB-C4B	-4.54	104.89	110.67
13	f9	1001	CYC	C2B-C1B-NB	4.53	113.62	106.99
13	A5	304	CYC	OC-C1C-NC	4.53	130.43	124.94
13	E7	201	CYC	CMB-C2B-C1B	4.53	129.82	124.17
13	i9	1001	CYC	CMB-C2B-C1B	4.53	129.82	124.17
13	AA	304	CYC	CHB-C4A-C3A	4.53	136.55	124.90
13	o9	1001	CYC	CMB-C2B-C1B	4.53	129.82	124.17
13	E3	201	CYC	CMB-C2B-C1B	4.53	129.82	124.17
13	Z5	201	CYC	CHB-C4A-C3A	4.53	136.55	124.90
13	F2	1001	CYC	OB-C4B-C3B	-4.53	123.13	128.04
13	U5	1001	CYC	OB-C4B-C3B	-4.53	123.13	128.04
13	b9	1001	CYC	CMB-C2B-C1B	4.53	129.82	124.17
13	Y2	201	CYC	OB-C4B-C3B	-4.53	123.13	128.04
13	E6	201	CYC	CMB-C2B-C1B	4.53	129.82	124.17
13	L6	201	CYC	OB-C4B-C3B	-4.53	123.13	128.04
13	Y6	201	CYC	OB-C4B-C3B	-4.53	123.13	128.04
13	R9	1001	CYC	C2B-C1B-NB	4.53	113.61	106.99
13	A9	1001	CYC	CMB-C2B-C1B	4.52	129.82	124.17
13	E9	1001	CYC	CMB-C2B-C1B	4.52	129.82	124.17
13	C6	201	CYC	OB-C4B-C3B	-4.52	123.13	128.04
13	L1	201	CYC	OB-C4B-C3B	-4.52	123.13	128.04
13	P9	1001	CYC	CMB-C2B-C1B	4.52	129.81	124.17
13	A9	1001	CYC	C2B-C1B-NB	4.52	113.61	106.99
13	J7	1001	CYC	OB-C4B-C3B	-4.52	123.13	128.04
13	R2	1001	CYC	OB-C4B-C3B	-4.52	123.13	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	K9	1001	CYC	C2B-C1B-NB	4.52	113.61	106.99
13	PA	203	CYC	OB-C4B-C3B	-4.52	123.14	128.04
13	NA	301	CYC	CHB-C4A-C3A	4.52	136.52	124.90
13	T9	1001	CYC	CMB-C2B-C1B	4.52	129.81	124.17
13	i9	1001	CYC	C2B-C1B-NB	4.52	113.60	106.99
13	s9	1001	CYC	C2B-C1B-NB	4.52	113.60	106.99
13	b9	1001	CYC	C2B-C1B-NB	4.52	113.60	106.99
13	T9	1001	CYC	C2B-C1B-NB	4.52	113.60	106.99
13	Z9	1001	CYC	C2B-C1B-NB	4.52	113.60	106.99
13	V9	201	CYC	CMB-C2B-C1B	4.51	129.81	124.17
13	m9	201	CYC	CMB-C2B-C1B	4.51	129.81	124.17
13	P5	203	CYC	OB-C4B-C3B	-4.51	123.14	128.04
13	AA	304	CYC	OC-C1C-NC	4.51	130.41	124.94
13	N9	1001	CYC	C2B-C1B-NB	4.51	113.59	106.99
13	W6	202	CYC	OB-C4B-C3B	-4.51	123.14	128.04
13	E4	201	CYC	CMB-C2B-C1B	4.51	129.80	124.17
13	u9	1001	CYC	C2B-C1B-NB	4.51	113.59	106.99
13	G6	202	CYC	OB-C4B-C3B	-4.51	123.14	128.04
13	A5	302	CYC	CMB-C2B-C1B	4.51	129.80	124.17
13	N9	1001	CYC	CMB-C2B-C1B	4.51	129.80	124.17
13	XA	201	CYC	CHB-C4A-C3A	4.51	136.50	124.90
13	G1	202	CYC	OB-C4B-C3B	-4.51	123.14	128.04
13	I9	1001	CYC	C2B-C1B-NB	4.51	113.59	106.99
13	B4	1001	CYC	OB-C4B-C3B	-4.51	123.15	128.04
13	P9	1001	CYC	C2B-C1B-NB	4.51	113.59	106.99
13	D1	1001	CYC	OB-C4B-C3B	-4.51	123.15	128.04
13	F4	1001	CYC	OB-C4B-C3B	-4.51	123.15	128.04
13	N5	301	CYC	CHB-C4A-C3A	4.51	136.49	124.90
13	L2	201	CYC	OB-C4B-C3B	-4.51	123.15	128.04
13	ZA	201	CYC	CHB-C4A-C3A	4.51	136.49	124.90
13	u9	1001	CYC	CMB-C2B-C1B	4.51	129.79	124.17
13	A5	303	CYC	CHB-C4A-C3A	4.51	136.49	124.90
13	s9	1001	CYC	CMB-C2B-C1B	4.51	129.79	124.17
13	K9	1001	CYC	CMB-C2B-C1B	4.50	129.79	124.17
13	AA	301	CYC	CMB-C2B-C1B	4.50	129.79	124.17
13	D2	1001	CYC	OB-C4B-C3B	-4.50	123.15	128.04
13	LA	201	CYC	OB-C4B-C3B	-4.50	123.15	128.04
13	O4	1001	CYC	OB-C4B-C3B	-4.50	123.16	128.04
13	I9	1001	CYC	CMB-C2B-C1B	4.50	129.79	124.17
13	q9	1001	CYC	CMB-C2B-C1B	4.50	129.79	124.17
13	VA	201	CYC	CHB-C4A-C3A	4.50	136.47	124.90
13	G7	201	CYC	OB-C4B-C3B	-4.50	123.16	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	U4	1001	CYC	OB-C4B-C3B	-4.50	123.16	128.04
13	J6	1001	CYC	OB-C4B-C3B	-4.50	123.16	128.04
13	A7	301	CYC	OB-C4B-C3B	-4.50	123.16	128.04
13	JA	1001	CYC	OB-C4B-C3B	-4.50	123.16	128.04
13	V5	201	CYC	CHB-C4A-C3A	4.49	136.46	124.90
13	AA	303	CYC	CHB-C4A-C3A	4.49	136.46	124.90
13	M5	1001	CYC	OB-C4B-C3B	-4.49	123.16	128.04
13	Z6	202	CYC	OB-C4B-C3B	-4.49	123.16	128.04
13	q9	1001	CYC	C2B-C1B-NB	4.49	113.56	106.99
13	A3	301	CYC	OB-C4B-C3B	-4.49	123.17	128.04
13	R6	1001	CYC	OB-C4B-C3B	-4.49	123.17	128.04
13	d9	1001	CYC	C2B-C1B-NB	4.49	113.56	106.99
13	V2	202	CYC	OB-C4B-C3B	-4.49	123.17	128.04
13	G4	202	CYC	OB-C4B-C3B	-4.49	123.17	128.04
13	X5	201	CYC	CHB-C4A-C3A	4.49	136.44	124.90
13	C1	301	CYC	OB-C4B-C3B	-4.48	123.17	128.04
13	Q9	201	CYC	CHA-C1A-NA	-4.48	122.61	128.83
13	B6	1001	CYC	OB-C4B-C3B	-4.48	123.17	128.04
13	AA	302	CYC	CMB-C2B-C1B	4.48	129.76	124.17
13	A5	301	CYC	CMB-C2B-C1B	4.48	129.76	124.17
13	G2	202	CYC	OB-C4B-C3B	-4.48	123.18	128.04
13	U2	202	CYC	OB-C4B-C3B	-4.48	123.18	128.04
13	J3	1001	CYC	OB-C4B-C3B	-4.48	123.18	128.04
13	J5	1001	CYC	OB-C4B-C3B	-4.48	123.18	128.04
13	J2	1001	CYC	OB-C4B-C3B	-4.48	123.18	128.04
13	F6	1001	CYC	OB-C4B-C3B	-4.48	123.18	128.04
13	d9	1001	CYC	CMB-C2B-C1B	4.48	129.76	124.17
13	J4	1001	CYC	OB-C4B-C3B	-4.48	123.18	128.04
13	L4	201	CYC	OB-C4B-C3B	-4.48	123.18	128.04
13	V6	202	CYC	OB-C4B-C3B	-4.48	123.18	128.04
13	R9	1001	CYC	CMB-C2B-C1B	4.47	129.75	124.17
13	R4	1001	CYC	OB-C4B-C3B	-4.47	123.18	128.04
13	U1	1001	CYC	OB-C4B-C3B	-4.47	123.19	128.04
13	L7	201	CYC	OB-C4B-C3B	-4.47	123.19	128.04
13	D5	1001	CYC	OB-C4B-C3B	-4.47	123.19	128.04
13	S4	1001	CYC	OB-C4B-C3B	-4.47	123.19	128.04
13	W1	1001	CYC	OB-C4B-C3B	-4.46	123.19	128.04
13	W4	1001	CYC	OB-C4B-C3B	-4.46	123.19	128.04
13	D4	1001	CYC	OB-C4B-C3B	-4.46	123.20	128.04
13	T4	202	CYC	OB-C4B-C3B	-4.46	123.20	128.04
13	S1	1001	CYC	OB-C4B-C3B	-4.46	123.20	128.04
13	O5	1001	CYC	OB-C4B-C3B	-4.46	123.20	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	DA	1001	CYC	OB-C4B-C3B	-4.46	123.20	128.04
13	L3	201	CYC	OB-C4B-C3B	-4.46	123.20	128.04
13	Q6	201	CYC	OB-C4B-C3B	-4.46	123.20	128.04
13	V4	202	CYC	OB-C4B-C3B	-4.46	123.20	128.04
13	L5	201	CYC	OB-C4B-C3B	-4.46	123.20	128.04
13	U6	202	CYC	OB-C4B-C3B	-4.45	123.21	128.04
13	O6	1001	CYC	OB-C4B-C3B	-4.45	123.21	128.04
13	WA	1001	CYC	OB-C4B-C3B	-4.45	123.21	128.04
13	R1	1001	CYC	OB-C4B-C3B	-4.45	123.22	128.04
13	GA	1001	CYC	OB-C4B-C3B	-4.44	123.22	128.04
13	O1	1001	CYC	OB-C4B-C3B	-4.44	123.22	128.04
13	SA	1001	CYC	OB-C4B-C3B	-4.44	123.22	128.04
13	V1	202	CYC	OB-C4B-C3B	-4.44	123.22	128.04
13	MA	1001	CYC	OB-C4B-C3B	-4.44	123.22	128.04
13	OA	1001	CYC	OB-C4B-C3B	-4.44	123.22	128.04
13	O2	1001	CYC	OB-C4B-C3B	-4.44	123.22	128.04
13	W2	202	CYC	OB-C4B-C3B	-4.44	123.22	128.04
13	F1	1001	CYC	OB-C4B-C3B	-4.43	123.23	128.04
13	E5	202	CYC	OB-C4B-C3B	-4.43	123.23	128.04
13	B2	1001	CYC	OB-C4B-C3B	-4.43	123.23	128.04
13	J1	1001	CYC	OB-C4B-C3B	-4.43	123.23	128.04
13	Z4	202	CYC	OB-C4B-C3B	-4.43	123.23	128.04
13	B5	1001	CYC	OB-C4B-C3B	-4.43	123.23	128.04
13	Y1	201	CYC	OB-C4B-C3B	-4.43	123.24	128.04
13	H1	1001	CYC	OB-C4B-C3B	-4.43	123.24	128.04
13	N9	1001	CYC	CHB-C4A-NA	-4.42	115.69	124.93
13	Z2	202	CYC	OB-C4B-C3B	-4.42	123.24	128.04
13	A9	1001	CYC	CHB-C4A-NA	-4.42	115.70	124.93
13	Y4	201	CYC	OB-C4B-C3B	-4.41	123.25	128.04
13	H7	1001	CYC	OB-C4B-C3B	-4.41	123.25	128.04
13	y9	1001	CYC	CHB-C4A-NA	-4.41	115.70	124.93
13	H6	1001	CYC	OB-C4B-C3B	-4.41	123.25	128.04
13	k9	1001	CYC	CHB-C4A-NA	-4.41	115.71	124.93
13	b9	1001	CYC	CHB-C4A-NA	-4.41	115.71	124.93
13	o9	1001	CYC	CHB-C4A-NA	-4.41	115.71	124.93
13	u9	1001	CYC	CHB-C4A-NA	-4.41	115.71	124.93
13	S5	1001	CYC	OB-C4B-C3B	-4.41	123.26	128.04
13	Z9	1001	CYC	CHB-C4A-NA	-4.41	115.72	124.93
13	H3	1001	CYC	OB-C4B-C3B	-4.41	123.26	128.04
13	P9	1001	CYC	CHB-C4A-NA	-4.40	115.72	124.93
13	R9	1001	CYC	CHB-C4A-NA	-4.40	115.72	124.93
13	T1	202	CYC	OB-C4B-C3B	-4.40	123.26	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	H2	1001	CYC	OB-C4B-C3B	-4.40	123.26	128.04
13	W5	1001	CYC	OB-C4B-C3B	-4.40	123.27	128.04
13	E9	1001	CYC	CHB-C4A-NA	-4.40	115.73	124.93
13	K9	1001	CYC	CHB-C4A-NA	-4.40	115.74	124.93
13	X9	1001	CYC	CHB-C4A-NA	-4.40	115.74	124.93
13	Q2	201	CYC	OB-C4B-C3B	-4.40	123.27	128.04
13	G9	1001	CYC	CHB-C4A-NA	-4.40	115.74	124.93
13	d9	1001	CYC	CHB-C4A-NA	-4.40	115.74	124.93
13	C9	1001	CYC	CHB-C4A-NA	-4.39	115.74	124.93
13	w9	1001	CYC	CHB-C4A-NA	-4.39	115.74	124.93
13	Q4	201	CYC	OB-C4B-C3B	-4.39	123.27	128.04
13	S6	1001	CYC	OB-C4B-C3B	-4.39	123.28	128.04
13	s9	1001	CYC	CHB-C4A-NA	-4.39	115.75	124.93
13	i9	1001	CYC	CHB-C4A-NA	-4.39	115.75	124.93
13	q9	1001	CYC	CHB-C4A-NA	-4.39	115.76	124.93
13	I9	1001	CYC	CHB-C4A-NA	-4.38	115.77	124.93
13	09	1203	CYC	CHA-C1A-NA	-4.38	122.75	128.83
13	EA	202	CYC	OB-C4B-C3B	-4.38	123.29	128.04
13	Y5	201	CYC	OB-C4B-C3B	-4.38	123.29	128.04
13	T9	1001	CYC	CHB-C4A-NA	-4.38	115.78	124.93
13	f9	1001	CYC	CHB-C4A-NA	-4.37	115.78	124.93
13	H4	1001	CYC	OB-C4B-C3B	-4.37	123.30	128.04
13	l9	1001	CYC	CHA-C1A-NA	-4.37	122.77	128.83
13	Q1	201	CYC	OB-C4B-C3B	-4.36	123.31	128.04
13	S2	1001	CYC	OB-C4B-C3B	-4.36	123.31	128.04
13	Z1	202	CYC	OB-C4B-C3B	-4.36	123.31	128.04
13	YA	201	CYC	OB-C4B-C3B	-4.36	123.31	128.04
13	c9	1001	CYC	CHA-C1A-NA	-4.35	122.79	128.83
13	S9	1001	CYC	CHA-C1A-NA	-4.35	122.80	128.83
13	U9	1001	CYC	CHA-C1A-NA	-4.35	122.80	128.83
13	J9	1001	CYC	CHA-C1A-NA	-4.35	122.80	128.83
13	F9	1001	CYC	CHA-C1A-NA	-4.34	122.80	128.83
13	19	1202	CYC	CHA-C1A-NA	-4.34	122.80	128.83
13	r9	1001	CYC	CHA-C1A-NA	-4.34	122.80	128.83
13	Z9	1001	CYC	CAC-C3C-C4C	-4.34	101.52	112.67
13	z9	1001	CYC	CHA-C1A-NA	-4.34	122.81	128.83
13	19	1204	CYC	CHA-C1A-NA	-4.34	122.81	128.83
13	29	1001	CYC	CHA-C1A-NA	-4.34	122.81	128.83
13	b8	1001	CYC	C1B-C2B-C3B	-4.33	103.35	107.87
13	B8	1001	CYC	OC-C1C-C2C	-4.33	122.73	126.17
13	d9	1001	CYC	CAC-C3C-C4C	-4.33	101.55	112.67
13	s8	1001	CYC	C1B-C2B-C3B	-4.33	103.35	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	o9	1001	CYC	CAC-C3C-C4C	-4.33	101.56	112.67
13	w9	1001	CYC	CAC-C3C-C4C	-4.33	101.56	112.67
13	E9	1001	CYC	CAC-C3C-C4C	-4.33	101.56	112.67
13	19	1205	CYC	CHA-C1A-NA	-4.33	122.83	128.83
13	B9	1001	CYC	CHA-C1A-NA	-4.33	122.83	128.83
13	x9	1001	CYC	CHA-C1A-NA	-4.33	122.83	128.83
13	N9	1001	CYC	CAC-C3C-C4C	-4.33	101.57	112.67
13	G9	1001	CYC	CAC-C3C-C4C	-4.32	101.57	112.67
13	P9	1001	CYC	CAC-C3C-C4C	-4.32	101.57	112.67
13	I9	1001	CYC	CAC-C3C-C4C	-4.32	101.57	112.67
13	O9	1001	CYC	CHA-C1A-NA	-4.32	122.83	128.83
13	u9	1001	CYC	CAC-C3C-C4C	-4.32	101.57	112.67
13	Y8	1001	CYC	C1B-C2B-C3B	-4.32	103.36	107.87
13	f9	1001	CYC	CAC-C3C-C4C	-4.32	101.58	112.67
13	A9	1001	CYC	CAC-C3C-C4C	-4.32	101.58	112.67
13	T9	1001	CYC	CAC-C3C-C4C	-4.32	101.58	112.67
13	19	1203	CYC	CHA-C1A-NA	-4.32	122.83	128.83
13	y9	1001	CYC	CAC-C3C-C4C	-4.32	101.58	112.67
13	R8	1001	CYC	C1B-C2B-C3B	-4.32	103.36	107.87
13	M8	1001	CYC	C1B-C2B-C3B	-4.32	103.36	107.87
13	P8	1001	CYC	C1B-C2B-C3B	-4.32	103.36	107.87
13	j9	1001	CYC	CHA-C1A-NA	-4.32	122.84	128.83
13	t9	1001	CYC	CHA-C1A-NA	-4.32	122.84	128.83
13	C9	1001	CYC	CAC-C3C-C4C	-4.32	101.59	112.67
13	i9	1001	CYC	CAC-C3C-C4C	-4.32	101.59	112.67
13	s9	1001	CYC	CAC-C3C-C4C	-4.32	101.59	112.67
13	D8	1001	CYC	C1B-C2B-C3B	-4.32	103.37	107.87
13	b9	1001	CYC	CAC-C3C-C4C	-4.31	101.59	112.67
13	e9	1001	CYC	CHA-C1A-NA	-4.31	122.84	128.83
13	R9	1001	CYC	CAC-C3C-C4C	-4.31	101.60	112.67
13	k9	1001	CYC	CAC-C3C-C4C	-4.31	101.60	112.67
13	X9	1001	CYC	CAC-C3C-C4C	-4.31	101.60	112.67
13	d8	1001	CYC	C1B-C2B-C3B	-4.31	103.37	107.87
13	D9	1001	CYC	CHA-C1A-NA	-4.31	122.85	128.83
13	H9	1001	CYC	CHA-C1A-NA	-4.31	122.85	128.83
13	v9	1001	CYC	CHA-C1A-NA	-4.31	122.85	128.83
13	f8	1001	CYC	OC-C1C-C2C	-4.31	122.75	126.17
13	q9	1001	CYC	CAC-C3C-C4C	-4.30	101.62	112.67
13	39	1001	CYC	CHA-C1A-NA	-4.30	122.86	128.83
13	K9	1001	CYC	CAC-C3C-C4C	-4.30	101.63	112.67
13	p9	1001	CYC	CHA-C1A-NA	-4.30	122.86	128.83
13	f8	1001	CYC	C1B-C2B-C3B	-4.30	103.38	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	o8	1001	CYC	C1B-C2B-C3B	-4.29	103.39	107.87
13	F8	1001	CYC	C1B-C2B-C3B	-4.29	103.39	107.87
13	09	1201	CYC	OC-C1C-C2C	-4.29	122.76	126.17
13	09	1201	CYC	C1B-C2B-C3B	-4.29	103.40	107.87
13	q8	1001	CYC	C1B-C2B-C3B	-4.29	103.40	107.87
13	E9	1001	CYC	C1B-C2B-C3B	-4.29	103.40	107.87
13	o9	1001	CYC	C1B-C2B-C3B	-4.29	103.40	107.87
13	L9	1001	CYC	CHA-C1A-NA	-4.28	122.88	128.83
13	h8	1001	CYC	C1B-C2B-C3B	-4.28	103.40	107.87
13	X9	1001	CYC	C1B-C2B-C3B	-4.28	103.40	107.87
13	w9	1001	CYC	C1B-C2B-C3B	-4.28	103.40	107.87
13	b9	1001	CYC	C1B-C2B-C3B	-4.28	103.40	107.87
13	k9	1001	CYC	C1B-C2B-C3B	-4.28	103.41	107.87
13	W8	1001	CYC	C1B-C2B-C3B	-4.28	103.41	107.87
13	T8	1001	CYC	C1B-C2B-C3B	-4.27	103.41	107.87
13	o8	1001	CYC	OC-C1C-C2C	-4.27	122.78	126.17
13	B8	1001	CYC	C1B-C2B-C3B	-4.27	103.41	107.87
13	k8	1001	CYC	C1B-C2B-C3B	-4.27	103.42	107.87
13	y9	1001	CYC	C1B-C2B-C3B	-4.27	103.42	107.87
13	G9	1001	CYC	C1B-C2B-C3B	-4.27	103.42	107.87
13	T8	1001	CYC	OC-C1C-C2C	-4.27	122.78	126.17
13	19	1201	CYC	C1B-C2B-C3B	-4.26	103.42	107.87
13	f9	1001	CYC	C1B-C2B-C3B	-4.26	103.43	107.87
13	h8	1001	CYC	OC-C1C-C2C	-4.26	122.79	126.17
13	T9	1001	CYC	C1B-C2B-C3B	-4.25	103.43	107.87
13	K9	1001	CYC	C1B-C2B-C3B	-4.25	103.43	107.87
13	A9	1001	CYC	C1B-C2B-C3B	-4.25	103.44	107.87
13	E4	201	CYC	CHB-C4A-C3A	4.25	135.82	124.90
13	K8	1001	CYC	C1B-C2B-C3B	-4.25	103.44	107.87
13	P9	1001	CYC	C1B-C2B-C3B	-4.25	103.44	107.87
13	I8	1001	CYC	C1B-C2B-C3B	-4.25	103.44	107.87
13	I9	1001	CYC	C1B-C2B-C3B	-4.25	103.44	107.87
13	E1	201	CYC	CHB-C4A-C3A	4.24	135.81	124.90
13	R9	1001	CYC	C1B-C2B-C3B	-4.24	103.45	107.87
13	F8	1001	CYC	OC-C1C-C2C	-4.24	122.80	126.17
13	A5	302	CYC	CHB-C4A-C3A	4.24	135.80	124.90
13	u9	1001	CYC	C1B-C2B-C3B	-4.24	103.45	107.87
13	I8	1001	CYC	OC-C1C-C2C	-4.24	122.80	126.17
13	C9	1001	CYC	C1B-C2B-C3B	-4.24	103.45	107.87
13	q9	1001	CYC	C1B-C2B-C3B	-4.24	103.45	107.87
13	K8	1001	CYC	OC-C1C-C2C	-4.23	122.81	126.17
13	Y8	1001	CYC	OC-C1C-C2C	-4.23	122.81	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	E7	201	CYC	CHB-C4A-C3A	4.23	135.78	124.90
13	s8	1001	CYC	OC-C1C-C2C	-4.23	122.81	126.17
13	G9	1001	CYC	OC-C1C-NC	4.23	130.06	124.94
13	N9	1001	CYC	C1B-C2B-C3B	-4.23	103.46	107.87
13	E6	201	CYC	CHB-C4A-C3A	4.23	135.77	124.90
13	u9	1001	CYC	OC-C1C-NC	4.23	130.06	124.94
13	f9	1001	CYC	OC-C1C-NC	4.23	130.06	124.94
13	Z9	1001	CYC	C1B-C2B-C3B	-4.23	103.46	107.87
13	19	1201	CYC	OC-C1C-C2C	-4.22	122.81	126.17
13	E3	201	CYC	CHB-C4A-C3A	4.22	135.76	124.90
13	i9	1001	CYC	C1B-C2B-C3B	-4.22	103.47	107.87
13	AA	302	CYC	CHB-C4A-C3A	4.22	135.76	124.90
13	Q9	201	CYC	C2B-C1B-NB	4.22	113.17	106.99
13	R8	1001	CYC	C2B-C1B-NB	4.22	113.17	106.99
13	Y8	1001	CYC	C2B-C1B-NB	4.22	113.17	106.99
13	o9	1001	CYC	OC-C1C-NC	4.22	130.05	124.94
13	s9	1001	CYC	OC-C1C-NC	4.22	130.05	124.94
13	K9	1001	CYC	OC-C1C-NC	4.22	130.05	124.94
13	b8	1001	CYC	C2B-C1B-NB	4.21	113.16	106.99
13	b8	1001	CYC	OC-C1C-C2C	-4.21	122.82	126.17
13	19	1202	CYC	C4D-CHA-C1A	4.21	133.84	128.81
13	s9	1001	CYC	C1B-C2B-C3B	-4.21	103.48	107.87
13	M8	1001	CYC	C2B-C1B-NB	4.21	113.15	106.99
13	E2	201	CYC	CHB-C4A-C3A	4.21	135.73	124.90
13	T8	1001	CYC	C2B-C1B-NB	4.21	113.15	106.99
13	D8	1001	CYC	C2B-C1B-NB	4.21	113.14	106.99
13	q8	1001	CYC	C2B-C1B-NB	4.21	113.14	106.99
13	R9	1001	CYC	C1B-NB-C4B	-4.20	105.32	110.67
13	s8	1001	CYC	C2B-C1B-NB	4.20	113.14	106.99
13	y9	1001	CYC	OC-C1C-NC	4.20	130.03	124.94
13	m9	201	CYC	C1B-NB-C4B	-4.20	105.32	110.67
13	k8	1001	CYC	OC-C1C-C2C	-4.20	122.83	126.17
13	U2	202	CYC	CHA-C1A-NA	-4.20	123.00	128.83
13	V4	202	CYC	CHA-C1A-NA	-4.20	123.00	128.83
13	A9	1001	CYC	OC-C1C-NC	4.20	130.03	124.94
13	V9	201	CYC	C1B-NB-C4B	-4.20	105.32	110.67
13	R6	1001	CYC	CHA-C1A-NA	-4.20	123.00	128.83
13	F8	1001	CYC	C2B-C1B-NB	4.20	113.14	106.99
13	C9	1001	CYC	OC-C1C-NC	4.20	130.03	124.94
13	d9	1001	CYC	C1B-C2B-C3B	-4.20	103.49	107.87
13	U6	202	CYC	CHA-C1A-NA	-4.20	123.00	128.83
13	M8	1001	CYC	OC-C1C-C2C	-4.20	122.84	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	P8	1001	CYC	OC-C1C-C2C	-4.20	122.84	126.17
13	W8	1001	CYC	OC-C1C-C2C	-4.20	122.84	126.17
13	E9	1001	CYC	OC-C1C-NC	4.20	130.02	124.94
13	AA	301	CYC	CHB-C4A-C3A	4.20	135.69	124.90
13	T9	1001	CYC	OC-C1C-NC	4.19	130.02	124.94
13	b9	1001	CYC	OC-C1C-NC	4.19	130.02	124.94
13	C9	1001	CYC	C1B-NB-C4B	-4.19	105.33	110.67
13	k8	1001	CYC	C2B-C1B-NB	4.19	113.13	106.99
13	A5	301	CYC	CHB-C4A-C3A	4.19	135.68	124.90
13	R8	1001	CYC	OC-C1C-C2C	-4.19	122.84	126.17
13	P8	1001	CYC	C2B-C1B-NB	4.19	113.12	106.99
13	f8	1001	CYC	C2B-C1B-NB	4.19	113.12	106.99
13	R2	1001	CYC	CHA-C1A-NA	-4.19	123.01	128.83
13	d8	1001	CYC	C2B-C1B-NB	4.19	113.12	106.99
13	19	1201	CYC	C2B-C1B-NB	4.19	113.12	106.99
13	u9	1001	CYC	C1B-NB-C4B	-4.19	105.34	110.67
13	i9	1001	CYC	OC-C1C-NC	4.19	130.01	124.94
13	B8	1001	CYC	C2B-C1B-NB	4.19	113.12	106.99
13	I8	1001	CYC	C2B-C1B-NB	4.19	113.12	106.99
13	o9	1001	CYC	C1B-NB-C4B	-4.19	105.34	110.67
13	y9	1001	CYC	C1B-NB-C4B	-4.19	105.34	110.67
13	w9	1001	CYC	OC-C1C-NC	4.18	130.01	124.94
13	X9	1001	CYC	OC-C1C-NC	4.18	130.01	124.94
13	q9	1001	CYC	OC-C1C-NC	4.18	130.01	124.94
13	k9	1001	CYC	C1B-NB-C4B	-4.18	105.35	110.67
13	09	1201	CYC	C2B-C1B-NB	4.18	113.11	106.99
13	G4	202	CYC	CHA-C1A-NA	-4.18	123.03	128.83
13	Z9	1001	CYC	OC-C1C-NC	4.18	130.00	124.94
13	h8	1001	CYC	C2B-C1B-NB	4.18	113.11	106.99
13	I9	1001	CYC	OC-C1C-NC	4.18	130.00	124.94
13	G9	1001	CYC	C1B-NB-C4B	-4.18	105.35	110.67
13	D1	1001	CYC	CHA-C1A-NA	-4.18	123.03	128.83
13	D8	1001	CYC	OC-C1C-C2C	-4.18	122.85	126.17
13	W8	1001	CYC	C2B-C1B-NB	4.18	113.10	106.99
13	o8	1001	CYC	C2B-C1B-NB	4.18	113.10	106.99
13	s9	1001	CYC	C1B-NB-C4B	-4.18	105.35	110.67
13	L5	201	CYC	CHA-C1A-NA	-4.18	123.03	128.83
13	k9	1001	CYC	OC-C1C-NC	4.18	130.00	124.94
13	N2	302	CYC	CHA-C1A-NA	-4.18	123.03	128.83
13	f9	1001	CYC	C1B-NB-C4B	-4.18	105.35	110.67
13	E9	1001	CYC	C1B-NB-C4B	-4.17	105.35	110.67
13	V1	202	CYC	CHA-C1A-NA	-4.17	123.04	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	q9	1001	CYC	C1B-NB-C4B	-4.17	105.36	110.67
13	O4	1001	CYC	CHA-C1A-NA	-4.17	123.04	128.83
13	U4	1001	CYC	CHA-C1A-NA	-4.17	123.04	128.83
13	EA	202	CYC	CHA-C1A-NA	-4.17	123.04	128.83
13	X9	1001	CYC	C1B-NB-C4B	-4.17	105.36	110.67
13	N6	302	CYC	CHA-C1A-NA	-4.17	123.05	128.83
13	09	1202	CYC	C1B-C2B-C3B	-4.17	103.52	107.87
13	F3	1001	CYC	CHA-C1A-NA	-4.17	123.05	128.83
13	d9	1001	CYC	C1B-NB-C4B	-4.17	105.36	110.67
13	P5	203	CYC	CHA-C1A-NA	-4.17	123.05	128.83
13	i9	1001	CYC	C1B-NB-C4B	-4.17	105.36	110.67
13	S1	1001	CYC	CHA-C1A-NA	-4.17	123.05	128.83
13	T4	202	CYC	CHA-C1A-NA	-4.17	123.05	128.83
13	P9	1001	CYC	OC-C1C-NC	4.16	129.99	124.94
13	R9	1001	CYC	OC-C1C-NC	4.16	129.99	124.94
13	S6	1001	CYC	CHA-C1A-NA	-4.16	123.05	128.83
13	R1	1001	CYC	CHA-C1A-NA	-4.16	123.05	128.83
13	d8	1001	CYC	OC-C1C-C2C	-4.16	122.86	126.17
13	H2	1001	CYC	CHA-C1A-NA	-4.16	123.05	128.83
13	I9	1001	CYC	C1B-NB-C4B	-4.16	105.37	110.67
13	H1	1001	CYC	CHA-C1A-NA	-4.16	123.05	128.83
13	SA	1001	CYC	CHA-C1A-NA	-4.16	123.05	128.83
13	Q2	201	CYC	CHA-C1A-NA	-4.16	123.06	128.83
13	H3	1001	CYC	CHA-C1A-NA	-4.16	123.06	128.83
13	K9	1001	CYC	C1B-NB-C4B	-4.16	105.37	110.67
13	S5	1001	CYC	CHA-C1A-NA	-4.16	123.06	128.83
13	d9	1001	CYC	OC-C1C-NC	4.16	129.98	124.94
13	W1	1001	CYC	CHA-C1A-NA	-4.16	123.06	128.83
13	A9	1001	CYC	C1B-NB-C4B	-4.16	105.38	110.67
13	L2	201	CYC	CHA-C1A-NA	-4.16	123.06	128.83
13	H7	1001	CYC	CHA-C1A-NA	-4.16	123.06	128.83
13	m9	201	CYC	C2B-C1B-NB	4.16	113.07	106.99
13	W5	1001	CYC	CHA-C1A-NA	-4.16	123.06	128.83
13	JA	1001	CYC	CHA-C1A-NA	-4.16	123.06	128.83
13	WA	1001	CYC	CHA-C1A-NA	-4.16	123.06	128.83
13	Q6	201	CYC	CHA-C1A-NA	-4.15	123.06	128.83
13	K8	1001	CYC	C2B-C1B-NB	4.15	113.07	106.99
13	q8	1001	CYC	OC-C1C-C2C	-4.15	122.87	126.17
13	N9	1001	CYC	OC-C1C-NC	4.15	129.97	124.94
13	S4	1001	CYC	CHA-C1A-NA	-4.15	123.07	128.83
13	B6	1001	CYC	CHA-C1A-NA	-4.15	123.07	128.83
13	UA	1001	CYC	CHA-C1A-NA	-4.15	123.07	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	N9	1001	CYC	C1B-NB-C4B	-4.15	105.38	110.67
13	V2	202	CYC	CHA-C1A-NA	-4.15	123.07	128.83
13	E5	202	CYC	CHA-C1A-NA	-4.15	123.07	128.83
13	V9	201	CYC	C2B-C1B-NB	4.15	113.06	106.99
13	G2	202	CYC	CHA-C1A-NA	-4.15	123.07	128.83
13	T1	202	CYC	CHA-C1A-NA	-4.15	123.07	128.83
13	H6	1001	CYC	CHA-C1A-NA	-4.15	123.07	128.83
13	U1	1001	CYC	CHA-C1A-NA	-4.15	123.07	128.83
13	F7	1001	CYC	CHA-C1A-NA	-4.15	123.07	128.83
13	G2	202	CYC	C2B-C1B-NB	4.15	113.06	106.99
13	S2	1001	CYC	CHA-C1A-NA	-4.15	123.08	128.83
13	J5	1001	CYC	CHA-C1A-NA	-4.15	123.08	128.83
13	Z9	1001	CYC	C1B-NB-C4B	-4.14	105.39	110.67
13	b9	1001	CYC	C1B-NB-C4B	-4.14	105.39	110.67
13	Z6	202	CYC	CHA-C1A-NA	-4.14	123.08	128.83
13	OA	1001	CYC	CHA-C1A-NA	-4.14	123.08	128.83
13	V6	202	CYC	CHA-C1A-NA	-4.14	123.08	128.83
13	O1	1001	CYC	CHA-C1A-NA	-4.14	123.08	128.83
13	LA	201	CYC	CHA-C1A-NA	-4.14	123.08	128.83
13	Z2	202	CYC	CHA-C1A-NA	-4.14	123.08	128.83
13	P9	1001	CYC	C1B-NB-C4B	-4.14	105.40	110.67
13	Q1	201	CYC	CHA-C1A-NA	-4.14	123.08	128.83
13	PA	203	CYC	CHA-C1A-NA	-4.14	123.09	128.83
13	M5	1001	CYC	CHA-C1A-NA	-4.14	123.09	128.83
13	w9	1001	CYC	C1B-NB-C4B	-4.14	105.40	110.67
13	GA	1001	CYC	CHA-C1A-NA	-4.14	123.09	128.83
13	D4	1001	CYC	CHA-C1A-NA	-4.13	123.09	128.83
13	C1	301	CYC	CHA-C1A-NA	-4.13	123.09	128.83
13	Z4	202	CYC	CHA-C1A-NA	-4.13	123.09	128.83
13	U5	1001	CYC	CHA-C1A-NA	-4.13	123.09	128.83
13	G6	202	CYC	CHA-C1A-NA	-4.13	123.09	128.83
13	G6	202	CYC	C2B-C1B-NB	4.13	113.04	106.99
13	Y1	201	CYC	CHA-C1A-NA	-4.13	123.10	128.83
13	W4	1001	CYC	CHA-C1A-NA	-4.13	123.10	128.83
13	T9	1001	CYC	C1B-NB-C4B	-4.13	105.41	110.67
13	H4	1001	CYC	CHA-C1A-NA	-4.13	123.10	128.83
13	R4	1001	CYC	CHA-C1A-NA	-4.13	123.10	128.83
13	L7	201	CYC	CHA-C1A-NA	-4.13	123.10	128.83
13	Y8	1001	CYC	CBB-CAB-C3B	-4.13	101.06	112.43
13	b8	1001	CYC	CBB-CAB-C3B	-4.13	101.06	112.43
13	G1	202	CYC	CHA-C1A-NA	-4.13	123.10	128.83
13	Y2	201	CYC	CHA-C1A-NA	-4.13	123.10	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Y6	201	CYC	CHA-C1A-NA	-4.12	123.11	128.83
13	R8	1001	CYC	CBB-CAB-C3B	-4.12	101.06	112.43
13	D8	1001	CYC	CBB-CAB-C3B	-4.12	101.06	112.43
13	09	1202	CYC	C4A-C3A-C2A	-4.12	101.77	106.51
13	J3	1001	CYC	CHA-C1A-NA	-4.12	123.11	128.83
13	L6	201	CYC	CHA-C1A-NA	-4.12	123.11	128.83
13	W6	202	CYC	CHA-C1A-NA	-4.12	123.11	128.83
13	D7	1001	CYC	CHA-C1A-NA	-4.12	123.11	128.83
13	F8	1001	CYC	CBB-CAB-C3B	-4.12	101.06	112.43
13	MA	1001	CYC	CHA-C1A-NA	-4.12	123.11	128.83
13	Y4	201	CYC	CHA-C1A-NA	-4.12	123.11	128.83
13	D5	1001	CYC	CHA-C1A-NA	-4.12	123.11	128.83
13	f8	1001	CYC	CBB-CAB-C3B	-4.12	101.07	112.43
13	J1	1001	CYC	CHA-C1A-NA	-4.12	123.11	128.83
13	V2	202	CYC	C2B-C1B-NB	4.12	113.02	106.99
13	09	1202	CYC	CHB-C4A-C3A	4.12	135.49	124.90
13	Q4	201	CYC	CHA-C1A-NA	-4.12	123.12	128.83
13	B8	1001	CYC	CBB-CAB-C3B	-4.12	101.08	112.43
13	k8	1001	CYC	CBB-CAB-C3B	-4.12	101.08	112.43
13	D2	1001	CYC	CHA-C1A-NA	-4.12	123.12	128.83
13	T8	1001	CYC	CBB-CAB-C3B	-4.12	101.09	112.43
13	W2	202	CYC	CHA-C1A-NA	-4.11	123.12	128.83
13	M8	1001	CYC	CBB-CAB-C3B	-4.11	101.09	112.43
13	09	1201	CYC	CBB-CAB-C3B	-4.11	101.09	112.43
13	R1	1001	CYC	C2B-C1B-NB	4.11	113.01	106.99
13	B2	1001	CYC	CHA-C1A-NA	-4.11	123.12	128.83
13	h8	1001	CYC	CBB-CAB-C3B	-4.11	101.09	112.43
13	L3	201	CYC	CHA-C1A-NA	-4.11	123.12	128.83
13	J4	1001	CYC	CHA-C1A-NA	-4.11	123.12	128.83
13	J7	1001	CYC	CHA-C1A-NA	-4.11	123.12	128.83
13	D6	1001	CYC	CHA-C1A-NA	-4.11	123.12	128.83
13	F2	1001	CYC	CHA-C1A-NA	-4.11	123.12	128.83
13	O5	1001	CYC	CHA-C1A-NA	-4.11	123.12	128.83
13	W8	1001	CYC	CBB-CAB-C3B	-4.11	101.10	112.43
13	o8	1001	CYC	CBB-CAB-C3B	-4.11	101.10	112.43
13	d8	1001	CYC	CBB-CAB-C3B	-4.11	101.10	112.43
13	C4	301	CYC	CHA-C1A-NA	-4.11	123.13	128.83
13	q8	1001	CYC	CBB-CAB-C3B	-4.11	101.11	112.43
13	C6	201	CYC	CHA-C1A-NA	-4.11	123.13	128.83
13	I8	1001	CYC	CBB-CAB-C3B	-4.11	101.11	112.43
13	L4	201	CYC	CHA-C1A-NA	-4.11	123.13	128.83
13	DA	1001	CYC	CHA-C1A-NA	-4.11	123.13	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	P8	1001	CYC	CBB-CAB-C3B	-4.11	101.11	112.43
13	R4	1001	CYC	C2B-C1B-NB	4.11	113.00	106.99
13	19	1201	CYC	CBB-CAB-C3B	-4.11	101.11	112.43
13	D3	1001	CYC	CHA-C1A-NA	-4.11	123.13	128.83
13	F6	1001	CYC	CHA-C1A-NA	-4.11	123.13	128.83
13	YA	201	CYC	CHA-C1A-NA	-4.11	123.13	128.83
13	C2	201	CYC	CHA-C1A-NA	-4.10	123.13	128.83
13	B5	1001	CYC	CHA-C1A-NA	-4.10	123.13	128.83
13	s8	1001	CYC	CBB-CAB-C3B	-4.10	101.12	112.43
13	B7	1001	CYC	C2B-C1B-NB	4.10	112.99	106.99
13	LA	201	CYC	C2B-C1B-NB	4.10	112.99	106.99
13	K8	1001	CYC	CBB-CAB-C3B	-4.10	101.13	112.43
13	B3	1001	CYC	C2B-C1B-NB	4.10	112.99	106.99
13	L1	201	CYC	CHA-C1A-NA	-4.10	123.14	128.83
13	F4	1001	CYC	CHA-C1A-NA	-4.10	123.14	128.83
13	V6	202	CYC	C2B-C1B-NB	4.10	112.98	106.99
13	G3	201	CYC	C2B-C1B-NB	4.10	112.98	106.99
13	G7	201	CYC	CHA-C1A-NA	-4.09	123.15	128.83
13	Z1	202	CYC	CHA-C1A-NA	-4.09	123.15	128.83
13	B4	1001	CYC	CHA-C1A-NA	-4.09	123.16	128.83
13	F3	1001	CYC	C2B-C1B-NB	4.09	112.97	106.99
13	g9	1001	CYC	C2C-C1C-NC	4.09	111.80	108.27
13	L5	201	CYC	C2B-C1B-NB	4.08	112.97	106.99
13	J6	1001	CYC	CHA-C1A-NA	-4.08	123.16	128.83
13	T1	202	CYC	C2B-C1B-NB	4.08	112.96	106.99
13	F7	1001	CYC	C2B-C1B-NB	4.08	112.96	106.99
13	J2	1001	CYC	CHA-C1A-NA	-4.08	123.17	128.83
13	B1	1001	CYC	CHA-C1A-NA	-4.08	123.17	128.83
13	A7	301	CYC	CHA-C1A-NA	-4.08	123.17	128.83
13	G4	202	CYC	C2B-C1B-NB	4.08	112.96	106.99
13	F1	1001	CYC	CHA-C1A-NA	-4.08	123.17	128.83
13	R2	1001	CYC	C2B-C1B-NB	4.08	112.96	106.99
13	Y5	201	CYC	CHA-C1A-NA	-4.08	123.17	128.83
13	B5	1001	CYC	C2B-C1B-NB	4.08	112.95	106.99
13	O2	1001	CYC	CHA-C1A-NA	-4.08	123.17	128.83
13	T4	202	CYC	C2B-C1B-NB	4.07	112.95	106.99
13	GA	1001	CYC	C2B-C1B-NB	4.07	112.95	106.99
13	B2	1001	CYC	C2B-C1B-NB	4.07	112.95	106.99
13	Z2	202	CYC	C2B-C1B-NB	4.07	112.94	106.99
13	G7	201	CYC	C2B-C1B-NB	4.07	112.94	106.99
13	L7	201	CYC	C2B-C1B-NB	4.07	112.94	106.99
13	S4	1001	CYC	C2B-C1B-NB	4.07	112.94	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	g9	1001	CYC	C2B-C1B-NB	4.07	112.94	106.99
13	O6	1001	CYC	C2B-C1B-NB	4.06	112.94	106.99
13	O6	1001	CYC	CHA-C1A-NA	-4.06	123.19	128.83
13	PA	203	CYC	C2B-C1B-NB	4.06	112.94	106.99
13	L3	201	CYC	C2B-C1B-NB	4.06	112.94	106.99
13	G3	201	CYC	CHA-C1A-NA	-4.06	123.19	128.83
13	D2	1001	CYC	C2B-C1B-NB	4.06	112.93	106.99
13	J2	1001	CYC	C2B-C1B-NB	4.06	112.93	106.99
13	Z4	202	CYC	C2B-C1B-NB	4.06	112.93	106.99
13	A3	301	CYC	CHA-C1A-NA	-4.06	123.20	128.83
13	J5	1001	CYC	C2B-C1B-NB	4.06	112.93	106.99
13	R6	1001	CYC	C2B-C1B-NB	4.06	112.93	106.99
13	SA	1001	CYC	C2B-C1B-NB	4.06	112.93	106.99
13	O2	1001	CYC	C2B-C1B-NB	4.06	112.93	106.99
13	Q6	201	CYC	C2B-C1B-NB	4.06	112.93	106.99
13	DA	1001	CYC	C2B-C1B-NB	4.06	112.93	106.99
13	W6	202	CYC	C2B-C1B-NB	4.05	112.92	106.99
13	O1	1001	CYC	C2B-C1B-NB	4.05	112.92	106.99
13	S2	1001	CYC	C2B-C1B-NB	4.05	112.92	106.99
13	D5	1001	CYC	C2B-C1B-NB	4.05	112.92	106.99
13	WA	1001	CYC	C2B-C1B-NB	4.05	112.92	106.99
13	F2	1001	CYC	C2B-C1B-NB	4.05	112.92	106.99
13	L4	201	CYC	C2B-C1B-NB	4.05	112.92	106.99
13	E5	202	CYC	C2B-C1B-NB	4.05	112.92	106.99
13	D6	1001	CYC	C2B-C1B-NB	4.05	112.92	106.99
13	B7	1001	CYC	CHA-C1A-NA	-4.05	123.21	128.83
13	D1	1001	CYC	C2B-C1B-NB	4.05	112.91	106.99
13	V4	202	CYC	C2B-C1B-NB	4.05	112.91	106.99
13	F6	1001	CYC	C2B-C1B-NB	4.05	112.91	106.99
13	H2	1001	CYC	C2B-C1B-NB	4.05	112.91	106.99
13	P5	203	CYC	C2B-C1B-NB	4.04	112.91	106.99
13	N2	302	CYC	C2B-C1B-NB	4.04	112.91	106.99
13	D4	1001	CYC	C2B-C1B-NB	4.04	112.91	106.99
13	S5	1001	CYC	C2B-C1B-NB	4.04	112.91	106.99
13	W2	202	CYC	C2B-C1B-NB	4.04	112.91	106.99
13	B6	1001	CYC	C2B-C1B-NB	4.04	112.91	106.99
13	F4	1001	CYC	C2B-C1B-NB	4.04	112.91	106.99
13	O4	1001	CYC	C2B-C1B-NB	4.04	112.90	106.99
13	B3	1001	CYC	CHA-C1A-NA	-4.04	123.22	128.83
13	YA	201	CYC	C2B-C1B-NB	4.04	112.90	106.99
13	J7	1001	CYC	C2B-C1B-NB	4.04	112.90	106.99
13	Q1	201	CYC	C2B-C1B-NB	4.04	112.90	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Y5	201	CYC	C2B-C1B-NB	4.04	112.90	106.99
13	Z6	202	CYC	C2B-C1B-NB	4.04	112.90	106.99
13	J1	1001	CYC	C2B-C1B-NB	4.04	112.89	106.99
13	F1	1001	CYC	C2B-C1B-NB	4.03	112.89	106.99
13	Y1	201	CYC	C2B-C1B-NB	4.03	112.89	106.99
13	N6	302	CYC	C2B-C1B-NB	4.03	112.89	106.99
13	J3	1001	CYC	C2B-C1B-NB	4.03	112.89	106.99
13	Z1	202	CYC	C2B-C1B-NB	4.03	112.89	106.99
13	L6	201	CYC	C2B-C1B-NB	4.03	112.89	106.99
13	H1	1001	CYC	C2B-C1B-NB	4.03	112.89	106.99
13	L2	201	CYC	C2B-C1B-NB	4.03	112.89	106.99
13	Q4	201	CYC	C2B-C1B-NB	4.03	112.89	106.99
13	UA	1001	CYC	C2B-C1B-NB	4.03	112.89	106.99
13	P8	1001	CYC	CAC-C3C-C2C	-4.03	104.19	114.26
13	EA	202	CYC	C2B-C1B-NB	4.03	112.89	106.99
13	09	1201	CYC	CAC-C3C-C2C	-4.03	104.19	114.26
13	K8	1001	CYC	CAC-C3C-C2C	-4.03	104.20	114.26
13	f8	1001	CYC	CAC-C3C-C2C	-4.03	104.20	114.26
13	Y2	201	CYC	C2B-C1B-NB	4.03	112.88	106.99
13	M8	1001	CYC	CAC-C3C-C2C	-4.03	104.20	114.26
13	k8	1001	CYC	CAC-C3C-C2C	-4.03	104.20	114.26
13	U4	1001	CYC	C2B-C1B-NB	4.02	112.88	106.99
13	U5	1001	CYC	C2B-C1B-NB	4.02	112.88	106.99
13	B8	1001	CYC	CAC-C3C-C2C	-4.02	104.21	114.26
13	O5	1001	CYC	C2B-C1B-NB	4.02	112.87	106.99
13	C1	301	CYC	C2B-C1B-NB	4.02	112.87	106.99
13	W5	1001	CYC	C2B-C1B-NB	4.02	112.87	106.99
13	G1	202	CYC	C2B-C1B-NB	4.02	112.87	106.99
13	C4	301	CYC	C2B-C1B-NB	4.02	112.87	106.99
13	S6	1001	CYC	C2B-C1B-NB	4.02	112.87	106.99
13	D3	1001	CYC	C2B-C1B-NB	4.02	112.87	106.99
13	s8	1001	CYC	CAC-C3C-C2C	-4.02	104.22	114.26
13	d8	1001	CYC	CAC-C3C-C2C	-4.02	104.22	114.26
13	Q2	201	CYC	C2B-C1B-NB	4.02	112.87	106.99
13	Y4	201	CYC	C2B-C1B-NB	4.02	112.87	106.99
13	M5	1001	CYC	C2B-C1B-NB	4.02	112.87	106.99
13	Y8	1001	CYC	CAC-C3C-C2C	-4.01	104.23	114.26
13	o8	1001	CYC	CAC-C3C-C2C	-4.01	104.23	114.26
13	H7	1001	CYC	C2B-C1B-NB	4.01	112.86	106.99
13	S1	1001	CYC	C2B-C1B-NB	4.01	112.86	106.99
13	H6	1001	CYC	C2B-C1B-NB	4.01	112.86	106.99
13	19	1201	CYC	CAC-C3C-C2C	-4.01	104.24	114.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	D8	1001	CYC	CAC-C3C-C2C	-4.01	104.24	114.26
13	R8	1001	CYC	CAC-C3C-C2C	-4.01	104.24	114.26
13	W1	1001	CYC	C2B-C1B-NB	4.01	112.86	106.99
13	q8	1001	CYC	CAC-C3C-C2C	-4.01	104.24	114.26
13	W8	1001	CYC	CAC-C3C-C2C	-4.01	104.25	114.26
13	b8	1001	CYC	CAC-C3C-C2C	-4.01	104.25	114.26
13	T8	1001	CYC	CAC-C3C-C2C	-4.01	104.25	114.26
13	J6	1001	CYC	C2B-C1B-NB	4.01	112.85	106.99
13	B4	1001	CYC	C2B-C1B-NB	4.01	112.85	106.99
13	Y6	201	CYC	C2B-C1B-NB	4.00	112.85	106.99
13	F8	1001	CYC	CAC-C3C-C2C	-4.00	104.25	114.26
13	U6	202	CYC	C2B-C1B-NB	4.00	112.85	106.99
13	H4	1001	CYC	C2B-C1B-NB	4.00	112.85	106.99
13	J4	1001	CYC	C2B-C1B-NB	4.00	112.84	106.99
13	H3	1001	CYC	C2B-C1B-NB	4.00	112.84	106.99
13	h8	1001	CYC	CAC-C3C-C2C	-4.00	104.27	114.26
13	MA	1001	CYC	C2B-C1B-NB	4.00	112.84	106.99
13	I8	1001	CYC	CAC-C3C-C2C	-4.00	104.27	114.26
13	OA	1001	CYC	C2B-C1B-NB	4.00	112.84	106.99
13	L1	201	CYC	C2B-C1B-NB	3.99	112.84	106.99
13	JA	1001	CYC	C2B-C1B-NB	3.99	112.83	106.99
13	D7	1001	CYC	C2B-C1B-NB	3.99	112.82	106.99
13	B1	1001	CYC	C2B-C1B-NB	3.99	112.82	106.99
13	W4	1001	CYC	C2B-C1B-NB	3.99	112.82	106.99
13	g8	1001	CYC	C2B-C1B-NB	3.99	112.82	106.99
13	Z8	1001	CYC	C2B-C1B-NB	3.98	112.82	106.99
13	V1	202	CYC	C2B-C1B-NB	3.98	112.82	106.99
13	U2	202	CYC	C2B-C1B-NB	3.98	112.82	106.99
13	U1	1001	CYC	C2B-C1B-NB	3.98	112.81	106.99
13	X8	1001	CYC	C2B-C1B-NB	3.98	112.81	106.99
13	H8	1001	CYC	C2B-C1B-NB	3.98	112.81	106.99
13	C2	201	CYC	C2B-C1B-NB	3.98	112.81	106.99
13	E8	1001	CYC	C2B-C1B-NB	3.98	112.81	106.99
13	L9	1001	CYC	OC-C1C-C2C	-3.97	123.02	126.17
13	J8	1001	CYC	C2B-C1B-NB	3.97	112.79	106.99
13	Q8	1001	CYC	C2B-C1B-NB	3.97	112.79	106.99
13	C6	201	CYC	C2B-C1B-NB	3.96	112.79	106.99
13	e8	1001	CYC	C2B-C1B-NB	3.96	112.79	106.99
13	S8	1001	CYC	C2B-C1B-NB	3.96	112.79	106.99
13	c8	1001	CYC	C2B-C1B-NB	3.96	112.79	106.99
13	O8	1001	CYC	C2B-C1B-NB	3.95	112.78	106.99
13	l8	1001	CYC	C2B-C1B-NB	3.95	112.78	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	C8	1001	CYC	C2B-C1B-NB	3.95	112.78	106.99
13	j8	1001	CYC	C2B-C1B-NB	3.95	112.78	106.99
13	t8	1001	CYC	C2B-C1B-NB	3.95	112.77	106.99
13	n8	1001	CYC	C2B-C1B-NB	3.95	112.76	106.99
13	L8	1001	CYC	C2B-C1B-NB	3.94	112.76	106.99
13	V8	1001	CYC	C2B-C1B-NB	3.94	112.76	106.99
13	r8	1001	CYC	C2B-C1B-NB	3.94	112.76	106.99
13	p8	1001	CYC	C2B-C1B-NB	3.93	112.75	106.99
13	A8	1001	CYC	C2B-C1B-NB	3.93	112.74	106.99
13	19	1203	CYC	OC-C1C-C2C	-3.93	123.05	126.17
13	09	1203	CYC	OC-C1C-C2C	-3.92	123.05	126.17
13	AA	301	CYC	CAB-C3B-C4B	3.92	127.57	121.38
13	29	1001	CYC	OC-C1C-C2C	-3.92	123.06	126.17
13	c9	1001	CYC	OC-C1C-C2C	-3.92	123.06	126.17
13	V9	201	CYC	C4A-C3A-C2A	-3.91	102.02	106.51
13	E1	201	CYC	CAB-C3B-C4B	3.91	127.56	121.38
13	z9	1001	CYC	OC-C1C-C2C	-3.91	123.06	126.17
13	19	1204	CYC	OC-C1C-C2C	-3.91	123.06	126.17
13	A7	301	CYC	C2B-C1B-NB	3.91	112.71	106.99
13	19	1205	CYC	OC-C1C-C2C	-3.91	123.07	126.17
13	AA	302	CYC	CAB-C3B-C4B	3.90	127.55	121.38
13	p9	1001	CYC	OC-C1C-C2C	-3.90	123.07	126.17
13	A3	301	CYC	C2B-C1B-NB	3.90	112.70	106.99
13	J9	1001	CYC	OC-C1C-C2C	-3.90	123.07	126.17
13	B9	1001	CYC	OC-C1C-C2C	-3.90	123.08	126.17
13	e9	1001	CYC	OC-C1C-C2C	-3.89	123.08	126.17
13	x9	1001	CYC	OC-C1C-C2C	-3.89	123.08	126.17
13	A5	301	CYC	CAB-C3B-C4B	3.89	127.52	121.38
13	m9	201	CYC	C4A-C3A-C2A	-3.89	102.04	106.51
13	39	1001	CYC	OC-C1C-C2C	-3.88	123.09	126.17
13	S9	1001	CYC	OC-C1C-C2C	-3.88	123.09	126.17
13	A5	302	CYC	CAB-C3B-C4B	3.88	127.50	121.38
13	E4	201	CYC	CAB-C3B-C4B	3.88	127.50	121.38
13	v9	1001	CYC	OC-C1C-C2C	-3.87	123.10	126.17
13	F9	1001	CYC	OC-C1C-C2C	-3.86	123.10	126.17
13	19	1202	CYC	C4A-C3A-C2A	-3.86	102.07	106.51
13	D9	1001	CYC	OC-C1C-C2C	-3.86	123.10	126.17
13	Q9	201	CYC	C1B-C2B-C3B	-3.86	103.85	107.87
13	H9	1001	CYC	OC-C1C-C2C	-3.85	123.11	126.17
13	t9	1001	CYC	OC-C1C-C2C	-3.85	123.11	126.17
13	j9	1001	CYC	OC-C1C-C2C	-3.84	123.12	126.17
13	r9	1001	CYC	OC-C1C-C2C	-3.83	123.13	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	O9	1001	CYC	OC-C1C-C2C	-3.83	123.13	126.17
13	U9	1001	CYC	OC-C1C-C2C	-3.83	123.13	126.17
13	E6	201	CYC	CAB-C3B-C4B	3.82	127.41	121.38
13	E2	201	CYC	CAB-C3B-C4B	3.81	127.40	121.38
13	l9	1001	CYC	OC-C1C-C2C	-3.80	123.15	126.17
13	E3	201	CYC	CAB-C3B-C4B	3.79	127.37	121.38
13	E7	201	CYC	CAB-C3B-C4B	3.79	127.36	121.38
13	J9	1001	CYC	CMA-C3A-C4A	3.78	130.89	125.06
13	t9	1001	CYC	CMA-C3A-C4A	3.78	130.89	125.06
13	L9	1001	CYC	CMA-C3A-C4A	3.78	130.88	125.06
13	p9	1001	CYC	CMA-C3A-C4A	3.78	130.88	125.06
13	19	1205	CYC	CMA-C3A-C4A	3.77	130.88	125.06
13	D9	1001	CYC	CMA-C3A-C4A	3.77	130.87	125.06
13	F9	1001	CYC	CMA-C3A-C4A	3.77	130.87	125.06
13	E8	1001	CYC	CBC-CAC-C3C	-3.77	105.08	113.47
13	Q9	201	CYC	CHB-C4A-C3A	3.77	134.59	124.90
13	O9	1001	CYC	CMA-C3A-C4A	3.76	130.86	125.06
13	V8	1001	CYC	CBC-CAC-C3C	-3.76	105.09	113.47
13	z9	1001	CYC	CMA-C3A-C4A	3.76	130.86	125.06
13	H9	1001	CYC	CMA-C3A-C4A	3.76	130.85	125.06
13	X8	1001	CYC	CBC-CAC-C3C	-3.76	105.10	113.47
13	l8	1001	CYC	CBC-CAC-C3C	-3.76	105.10	113.47
13	19	1203	CYC	CMA-C3A-C4A	3.76	130.85	125.06
13	n8	1001	CYC	CBC-CAC-C3C	-3.76	105.10	113.47
13	H8	1001	CYC	C1B-NB-C4B	-3.76	105.89	110.67
13	c9	1001	CYC	CMA-C3A-C4A	3.76	130.85	125.06
13	B9	1001	CYC	CMA-C3A-C4A	3.76	130.85	125.06
13	09	1203	CYC	CMA-C3A-C4A	3.76	130.85	125.06
13	Q8	1001	CYC	CBC-CAC-C3C	-3.75	105.11	113.47
13	S8	1001	CYC	CBC-CAC-C3C	-3.75	105.11	113.47
13	r9	1001	CYC	CMA-C3A-C4A	3.75	130.84	125.06
13	A8	1001	CYC	CBC-CAC-C3C	-3.75	105.11	113.47
13	J8	1001	CYC	CBC-CAC-C3C	-3.75	105.11	113.47
13	j8	1001	CYC	CBC-CAC-C3C	-3.75	105.11	113.47
13	Z8	1001	CYC	CBC-CAC-C3C	-3.75	105.11	113.47
13	r8	1001	CYC	CBC-CAC-C3C	-3.75	105.12	113.47
13	L8	1001	CYC	CBC-CAC-C3C	-3.75	105.12	113.47
13	e8	1001	CYC	CBC-CAC-C3C	-3.75	105.12	113.47
13	39	1001	CYC	CMA-C3A-C4A	3.75	130.84	125.06
13	U9	1001	CYC	CMA-C3A-C4A	3.75	130.84	125.06
13	p8	1001	CYC	CBC-CAC-C3C	-3.75	105.12	113.47
13	O8	1001	CYC	CBC-CAC-C3C	-3.75	105.13	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	c8	1001	CYC	CBC-CAC-C3C	-3.75	105.13	113.47
13	H8	1001	CYC	CBC-CAC-C3C	-3.74	105.13	113.47
13	v9	1001	CYC	CMA-C3A-C4A	3.74	130.83	125.06
13	g8	1001	CYC	CBC-CAC-C3C	-3.74	105.13	113.47
13	t8	1001	CYC	CBC-CAC-C3C	-3.74	105.13	113.47
13	C8	1001	CYC	CBC-CAC-C3C	-3.74	105.14	113.47
13	e9	1001	CYC	CMA-C3A-C4A	3.74	130.82	125.06
13	j9	1001	CYC	CMA-C3A-C4A	3.74	130.82	125.06
13	X8	1001	CYC	C1B-NB-C4B	-3.74	105.91	110.67
13	l9	1001	CYC	CMA-C3A-C4A	3.74	130.82	125.06
13	29	1001	CYC	CMA-C3A-C4A	3.73	130.81	125.06
13	x9	1001	CYC	CMA-C3A-C4A	3.73	130.81	125.06
13	Z8	1001	CYC	C1B-NB-C4B	-3.73	105.92	110.67
13	g8	1001	CYC	C1B-NB-C4B	-3.73	105.92	110.67
13	19	1204	CYC	CMA-C3A-C4A	3.72	130.80	125.06
13	S9	1001	CYC	CMA-C3A-C4A	3.72	130.79	125.06
13	t8	1001	CYC	C1B-NB-C4B	-3.72	105.94	110.67
13	c8	1001	CYC	C1B-NB-C4B	-3.72	105.94	110.67
13	l8	1001	CYC	C1B-NB-C4B	-3.71	105.94	110.67
13	n8	1001	CYC	C1B-NB-C4B	-3.71	105.94	110.67
13	e8	1001	CYC	C1B-NB-C4B	-3.71	105.94	110.67
13	r8	1001	CYC	C1B-NB-C4B	-3.71	105.94	110.67
13	O8	1001	CYC	C1B-NB-C4B	-3.71	105.95	110.67
13	L8	1001	CYC	C1B-NB-C4B	-3.70	105.96	110.67
13	p8	1001	CYC	C1B-NB-C4B	-3.70	105.96	110.67
13	j8	1001	CYC	C1B-NB-C4B	-3.70	105.96	110.67
13	E8	1001	CYC	C1B-NB-C4B	-3.70	105.96	110.67
13	Q8	1001	CYC	C1B-NB-C4B	-3.69	105.97	110.67
13	A8	1001	CYC	C1B-NB-C4B	-3.69	105.97	110.67
13	V8	1001	CYC	C1B-NB-C4B	-3.69	105.97	110.67
13	C8	1001	CYC	C1B-NB-C4B	-3.69	105.97	110.67
13	J8	1001	CYC	C1B-NB-C4B	-3.69	105.97	110.67
13	S8	1001	CYC	C1B-NB-C4B	-3.68	105.98	110.67
13	g9	1001	CYC	C1B-C2B-C3B	-3.67	104.04	107.87
13	V9	201	CYC	C1B-C2B-C3B	-3.65	104.06	107.87
13	m9	201	CYC	C1B-C2B-C3B	-3.65	104.06	107.87
13	g9	1001	CYC	C1B-NB-C4B	-3.65	106.03	110.67
13	G9	1001	CYC	CHA-C1A-NA	-3.62	123.81	128.83
13	H1	1001	CYC	C1B-C2B-C3B	-3.61	104.10	107.87
13	09	1202	CYC	CHA-C1A-NA	-3.61	123.82	128.83
13	R8	1001	CYC	C1B-NB-C4B	-3.61	106.07	110.67
13	Q9	201	CYC	OB-C4B-C3B	-3.60	124.13	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	q8	1001	CYC	C1B-NB-C4B	-3.60	106.08	110.67
13	A9	1001	CYC	CHA-C1A-NA	-3.60	123.83	128.83
13	P9	1001	CYC	CHA-C1A-NA	-3.60	123.83	128.83
13	H7	1001	CYC	C1B-C2B-C3B	-3.60	104.11	107.87
13	F8	1001	CYC	C1B-NB-C4B	-3.60	106.09	110.67
13	k8	1001	CYC	C1B-NB-C4B	-3.60	106.09	110.67
13	k9	1001	CYC	CHA-C1A-NA	-3.60	123.84	128.83
13	d8	1001	CYC	C1B-NB-C4B	-3.60	106.09	110.67
13	E9	1001	CYC	CHA-C1A-NA	-3.59	123.84	128.83
13	L7	201	CYC	C1B-C2B-C3B	-3.59	104.12	107.87
13	Y8	1001	CYC	C1B-NB-C4B	-3.59	106.10	110.67
13	w9	1001	CYC	CHA-C1A-NA	-3.59	123.85	128.83
13	W6	202	CYC	C1B-C2B-C3B	-3.59	104.13	107.87
13	X9	1001	CYC	CHA-C1A-NA	-3.58	123.86	128.83
13	s9	1001	CYC	CHA-C1A-NA	-3.58	123.86	128.83
13	N9	1001	CYC	CHA-C1A-NA	-3.58	123.86	128.83
13	19	1203	CYC	CAD-CBD-CGD	-3.58	103.71	113.76
13	y9	1001	CYC	CHA-C1A-NA	-3.58	123.86	128.83
13	M8	1001	CYC	C1B-NB-C4B	-3.58	106.11	110.67
13	s8	1001	CYC	C1B-NB-C4B	-3.58	106.11	110.67
13	09	1201	CYC	C1B-NB-C4B	-3.58	106.11	110.67
13	H3	1001	CYC	C1B-C2B-C3B	-3.58	104.14	107.87
13	R9	1001	CYC	CHA-C1A-NA	-3.58	123.86	128.83
13	19	1205	CYC	CAD-CBD-CGD	-3.58	103.73	113.76
13	B7	1001	CYC	C1B-NB-C4B	-3.58	106.11	110.67
13	b8	1001	CYC	C1B-NB-C4B	-3.58	106.11	110.67
13	09	1203	CYC	CAD-CBD-CGD	-3.58	103.73	113.76
13	I8	1001	CYC	C1B-NB-C4B	-3.58	106.12	110.67
13	u9	1001	CYC	CHA-C1A-NA	-3.57	123.87	128.83
13	f8	1001	CYC	C1B-NB-C4B	-3.57	106.12	110.67
13	B8	1001	CYC	C1B-NB-C4B	-3.57	106.12	110.67
13	T9	1001	CYC	CHA-C1A-NA	-3.57	123.87	128.83
13	L3	201	CYC	C1B-C2B-C3B	-3.57	104.14	107.87
13	l9	1001	CYC	CAD-CBD-CGD	-3.57	103.75	113.76
13	19	1201	CYC	C1B-NB-C4B	-3.57	106.12	110.67
13	L9	1001	CYC	CAD-CBD-CGD	-3.57	103.76	113.76
13	B3	1001	CYC	C1B-C2B-C3B	-3.57	104.15	107.87
13	H4	1001	CYC	C1B-C2B-C3B	-3.57	104.15	107.87
13	T8	1001	CYC	C1B-NB-C4B	-3.57	106.13	110.67
13	H9	1001	CYC	CAD-CBD-CGD	-3.57	103.76	113.76
13	C4	301	CYC	C1B-C2B-C3B	-3.57	104.15	107.87
13	j9	1001	CYC	CAD-CBD-CGD	-3.57	103.76	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	U9	1001	CYC	CAD-CBD-CGD	-3.56	103.77	113.76
13	K8	1001	CYC	C1B-NB-C4B	-3.56	106.13	110.67
13	C9	1001	CYC	CHA-C1A-NA	-3.56	123.88	128.83
13	D9	1001	CYC	CAD-CBD-CGD	-3.56	103.77	113.76
13	e9	1001	CYC	CAD-CBD-CGD	-3.56	103.77	113.76
13	K9	1001	CYC	CHA-C1A-NA	-3.56	123.89	128.83
13	P8	1001	CYC	C1B-NB-C4B	-3.56	106.14	110.67
13	O9	1001	CYC	CAD-CBD-CGD	-3.56	103.78	113.76
13	h8	1001	CYC	C1B-NB-C4B	-3.56	106.14	110.67
13	x9	1001	CYC	CAD-CBD-CGD	-3.56	103.78	113.76
13	S4	1001	CYC	C1B-C2B-C3B	-3.56	104.16	107.87
13	d9	1001	CYC	CHA-C1A-NA	-3.56	123.89	128.83
13	o8	1001	CYC	C1B-NB-C4B	-3.56	106.14	110.67
13	39	1001	CYC	CAD-CBD-CGD	-3.56	103.78	113.76
13	B9	1001	CYC	CAD-CBD-CGD	-3.56	103.78	113.76
13	b9	1001	CYC	CHA-C1A-NA	-3.56	123.89	128.83
13	F9	1001	CYC	CAD-CBD-CGD	-3.56	103.79	113.76
13	t9	1001	CYC	CAD-CBD-CGD	-3.56	103.79	113.76
13	W8	1001	CYC	C1B-NB-C4B	-3.56	106.14	110.67
13	Z9	1001	CYC	CHA-C1A-NA	-3.56	123.89	128.83
13	z9	1001	CYC	CAD-CBD-CGD	-3.56	103.79	113.76
13	V6	202	CYC	C1B-NB-C4B	-3.56	106.14	110.67
13	q9	1001	CYC	CHA-C1A-NA	-3.56	123.89	128.83
13	L2	201	CYC	C1B-C2B-C3B	-3.56	104.16	107.87
13	J9	1001	CYC	CAD-CBD-CGD	-3.55	103.79	113.76
13	o9	1001	CYC	CHA-C1A-NA	-3.55	123.90	128.83
13	C1	301	CYC	C1B-C2B-C3B	-3.55	104.16	107.87
13	F7	1001	CYC	C1B-C2B-C3B	-3.55	104.16	107.87
13	D8	1001	CYC	C1B-NB-C4B	-3.55	106.14	110.67
13	c9	1001	CYC	CAD-CBD-CGD	-3.55	103.80	113.76
13	I9	1001	CYC	CHA-C1A-NA	-3.55	123.90	128.83
13	S9	1001	CYC	CAD-CBD-CGD	-3.55	103.80	113.76
13	J5	1001	CYC	C1B-C2B-C3B	-3.55	104.17	107.87
13	v9	1001	CYC	CAD-CBD-CGD	-3.55	103.81	113.76
13	29	1001	CYC	CAD-CBD-CGD	-3.55	103.81	113.76
13	r9	1001	CYC	CAD-CBD-CGD	-3.55	103.81	113.76
13	p9	1001	CYC	CAD-CBD-CGD	-3.55	103.81	113.76
13	F2	1001	CYC	C1B-C2B-C3B	-3.55	104.17	107.87
13	R1	1001	CYC	C1B-NB-C4B	-3.55	106.15	110.67
13	19	1204	CYC	CAD-CBD-CGD	-3.55	103.82	113.76
13	V2	202	CYC	C1B-NB-C4B	-3.55	106.16	110.67
13	W1	1001	CYC	C1B-C2B-C3B	-3.54	104.17	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	SA	1001	CYC	C1B-C2B-C3B	-3.54	104.17	107.87
13	L6	201	CYC	C1B-C2B-C3B	-3.54	104.17	107.87
13	f9	1001	CYC	CHA-C1A-NA	-3.54	123.91	128.83
13	Q8	1001	CYC	CBD-CAD-C3D	-3.54	106.57	112.62
13	H2	1001	CYC	C1B-C2B-C3B	-3.54	104.17	107.87
13	B7	1001	CYC	C1B-C2B-C3B	-3.54	104.17	107.87
13	W2	202	CYC	C1B-C2B-C3B	-3.54	104.17	107.87
13	i9	1001	CYC	CHA-C1A-NA	-3.54	123.91	128.83
13	F6	1001	CYC	C1B-C2B-C3B	-3.54	104.18	107.87
13	LA	201	CYC	C1B-C2B-C3B	-3.54	104.18	107.87
13	G2	202	CYC	C1B-C2B-C3B	-3.54	104.18	107.87
13	DA	1001	CYC	C1B-C2B-C3B	-3.54	104.18	107.87
13	B3	1001	CYC	C1B-NB-C4B	-3.54	106.16	110.67
13	G6	202	CYC	C1B-NB-C4B	-3.54	106.16	110.67
13	B2	1001	CYC	C1B-C2B-C3B	-3.54	104.18	107.87
13	e8	1001	CYC	CBD-CAD-C3D	-3.54	106.58	112.62
13	B2	1001	CYC	C1B-NB-C4B	-3.54	106.17	110.67
13	S2	1001	CYC	C1B-NB-C4B	-3.54	106.17	110.67
13	H8	1001	CYC	CBD-CAD-C3D	-3.53	106.59	112.62
13	F3	1001	CYC	C1B-C2B-C3B	-3.53	104.19	107.87
13	G6	202	CYC	C1B-C2B-C3B	-3.53	104.19	107.87
13	F8	1001	CYC	CAB-C3B-C4B	3.53	126.95	121.38
13	R2	1001	CYC	C1B-C2B-C3B	-3.53	104.19	107.87
13	Z6	202	CYC	C1B-C2B-C3B	-3.53	104.19	107.87
13	J3	1001	CYC	C1B-C2B-C3B	-3.53	104.19	107.87
13	t8	1001	CYC	CBD-CAD-C3D	-3.53	106.60	112.62
13	G3	201	CYC	C1B-NB-C4B	-3.52	106.18	110.67
13	H6	1001	CYC	C1B-C2B-C3B	-3.52	104.19	107.87
13	l8	1001	CYC	CBD-CAD-C3D	-3.52	106.61	112.62
13	WA	1001	CYC	C1B-C2B-C3B	-3.52	104.19	107.87
13	J8	1001	CYC	CBD-CAD-C3D	-3.52	106.61	112.62
13	s8	1001	CYC	CAB-C3B-C4B	3.52	126.94	121.38
13	L4	201	CYC	C1B-C2B-C3B	-3.52	104.19	107.87
13	O4	1001	CYC	C1B-C2B-C3B	-3.52	104.19	107.87
13	r8	1001	CYC	CBD-CAD-C3D	-3.52	106.61	112.62
13	h8	1001	CYC	CAB-C3B-C4B	3.52	126.94	121.38
13	19	1205	CYC	C1A-C2A-C3A	-3.52	102.89	106.78
13	g9	1001	CYC	CHB-C4A-C3A	3.52	133.95	124.90
13	B6	1001	CYC	C1B-C2B-C3B	-3.52	104.20	107.87
13	L8	1001	CYC	CBD-CAD-C3D	-3.52	106.61	112.62
13	q8	1001	CYC	CAB-C3B-C4B	3.52	126.94	121.38
13	G2	202	CYC	C1B-NB-C4B	-3.52	106.19	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	g8	1001	CYC	CBD-CAD-C3D	-3.52	106.61	112.62
13	p8	1001	CYC	CBD-CAD-C3D	-3.52	106.62	112.62
13	j8	1001	CYC	CBD-CAD-C3D	-3.52	106.62	112.62
13	D8	1001	CYC	CAB-C3B-C4B	3.52	126.93	121.38
13	d8	1001	CYC	CAB-C3B-C4B	3.52	126.93	121.38
13	D9	1001	CYC	C1A-C2A-C3A	-3.52	102.89	106.78
13	K8	1001	CYC	CAB-C3B-C4B	3.52	126.93	121.38
13	I8	1001	CYC	CAB-C3B-C4B	3.52	126.93	121.38
13	S1	1001	CYC	C1B-C2B-C3B	-3.52	104.20	107.87
13	Q6	201	CYC	C1B-C2B-C3B	-3.52	104.20	107.87
13	L9	1001	CYC	C1A-C2A-C3A	-3.52	102.89	106.78
13	W8	1001	CYC	CAB-C3B-C4B	3.51	126.93	121.38
13	UA	1001	CYC	C1B-C2B-C3B	-3.51	104.20	107.87
13	O8	1001	CYC	CBD-CAD-C3D	-3.51	106.62	112.62
13	j8	1001	CYC	CHB-C4A-C3A	3.51	133.94	124.90
13	C2	201	CYC	C1B-C2B-C3B	-3.51	104.21	107.87
13	Z8	1001	CYC	C1B-C2B-C3B	-3.51	104.21	107.87
13	R4	1001	CYC	C1B-NB-C4B	-3.51	106.20	110.67
13	c8	1001	CYC	CBD-CAD-C3D	-3.51	106.63	112.62
13	J8	1001	CYC	CHB-C4A-C3A	3.51	133.93	124.90
13	A8	1001	CYC	CHB-C4A-C3A	3.51	133.93	124.90
13	U5	1001	CYC	C1B-C2B-C3B	-3.51	104.21	107.87
13	Q9	201	CYC	C1B-NB-C4B	-3.51	106.20	110.67
13	A8	1001	CYC	CBD-CAD-C3D	-3.51	106.63	112.62
13	W4	1001	CYC	C1B-C2B-C3B	-3.51	104.21	107.87
13	Q6	201	CYC	C1B-NB-C4B	-3.51	106.20	110.67
13	r8	1001	CYC	CHB-C4A-C3A	3.51	133.92	124.90
13	r9	1001	CYC	C1A-C2A-C3A	-3.51	102.90	106.78
13	D1	1001	CYC	C1B-C2B-C3B	-3.51	104.21	107.87
13	L5	201	CYC	C1B-C2B-C3B	-3.51	104.21	107.87
13	R8	1001	CYC	CAB-C3B-C4B	3.51	126.92	121.38
13	E5	202	CYC	C1B-C2B-C3B	-3.51	104.21	107.87
13	PA	203	CYC	C1B-C2B-C3B	-3.51	104.21	107.87
13	v9	1001	CYC	C1A-C2A-C3A	-3.51	102.90	106.78
13	J7	1001	CYC	C1B-C2B-C3B	-3.51	104.21	107.87
13	E8	1001	CYC	CBD-CAD-C3D	-3.51	106.64	112.62
13	O1	1001	CYC	C1B-C2B-C3B	-3.51	104.21	107.87
13	Z8	1001	CYC	CBD-CAD-C3D	-3.50	106.64	112.62
13	E8	1001	CYC	C1B-C2B-C3B	-3.50	104.21	107.87
13	J8	1001	CYC	C1B-C2B-C3B	-3.50	104.21	107.87
13	f8	1001	CYC	CAB-C3B-C4B	3.50	126.91	121.38
13	c8	1001	CYC	CHB-C4A-C3A	3.50	133.91	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	l8	1001	CYC	CHB-C4A-C3A	3.50	133.91	124.90
13	n8	1001	CYC	CBD-CAD-C3D	-3.50	106.64	112.62
13	t8	1001	CYC	CHB-C4A-C3A	3.50	133.91	124.90
13	H8	1001	CYC	CHB-C4A-C3A	3.50	133.91	124.90
13	Q8	1001	CYC	CHB-C4A-C3A	3.50	133.91	124.90
13	09	1201	CYC	CAB-C3B-C4B	3.50	126.91	121.38
13	p9	1001	CYC	C1A-C2A-C3A	-3.50	102.91	106.78
13	B5	1001	CYC	C1B-NB-C4B	-3.50	106.21	110.67
13	J6	1001	CYC	C1B-C2B-C3B	-3.50	104.22	107.87
13	j8	1001	CYC	C1B-C2B-C3B	-3.50	104.22	107.87
13	g8	1001	CYC	CHB-C4A-C3A	3.50	133.90	124.90
13	B6	1001	CYC	C1B-NB-C4B	-3.50	106.21	110.67
13	M8	1001	CYC	CAB-C3B-C4B	3.50	126.91	121.38
13	G4	202	CYC	C1B-C2B-C3B	-3.50	104.22	107.87
13	EA	202	CYC	C1B-C2B-C3B	-3.50	104.22	107.87
13	V8	1001	CYC	CBD-CAD-C3D	-3.50	106.65	112.62
13	Z2	202	CYC	C1B-NB-C4B	-3.50	106.22	110.67
13	t9	1001	CYC	C1A-C2A-C3A	-3.50	102.91	106.78
13	o8	1001	CYC	CAB-C3B-C4B	3.50	126.90	121.38
13	19	1201	CYC	CAB-C3B-C4B	3.50	126.90	121.38
13	X8	1001	CYC	CBD-CAD-C3D	-3.50	106.65	112.62
13	E8	1001	CYC	CHB-C4A-C3A	3.50	133.89	124.90
13	e8	1001	CYC	CHB-C4A-C3A	3.50	133.89	124.90
13	F9	1001	CYC	C1A-C2A-C3A	-3.50	102.91	106.78
13	Z8	1001	CYC	CHB-C4A-C3A	3.50	133.89	124.90
13	B8	1001	CYC	CAB-C3B-C4B	3.49	126.90	121.38
13	S8	1001	CYC	CBD-CAD-C3D	-3.49	106.66	112.62
13	b8	1001	CYC	CAB-C3B-C4B	3.49	126.90	121.38
13	I3	201	CYC	CHA-C1A-NA	-3.49	123.98	128.83
13	C8	1001	CYC	CBD-CAD-C3D	-3.49	106.66	112.62
13	VA	201	CYC	CHA-C1A-NA	-3.49	123.98	128.83
13	X8	1001	CYC	CHB-C4A-C3A	3.49	133.88	124.90
13	k8	1001	CYC	CAB-C3B-C4B	3.49	126.89	121.38
13	S8	1001	CYC	CHB-C4A-C3A	3.49	133.88	124.90
13	Q2	201	CYC	C1B-C2B-C3B	-3.49	104.23	107.87
13	O2	1001	CYC	C1B-C2B-C3B	-3.49	104.23	107.87
13	O6	1001	CYC	C1B-C2B-C3B	-3.49	104.23	107.87
13	Q8	1001	CYC	C1B-C2B-C3B	-3.49	104.23	107.87
13	19	1204	CYC	O1A-CGA-CBA	3.49	134.30	123.08
13	C8	1001	CYC	CHB-C4A-C3A	3.49	133.88	124.90
13	V2	202	CYC	C1B-C2B-C3B	-3.49	104.23	107.87
13	l8	1001	CYC	C1B-C2B-C3B	-3.49	104.23	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	S8	1001	CYC	C1B-C2B-C3B	-3.49	104.23	107.87
13	O8	1001	CYC	CHB-C4A-C3A	3.49	133.87	124.90
13	V8	1001	CYC	CHB-C4A-C3A	3.49	133.87	124.90
13	G4	202	CYC	C1B-NB-C4B	-3.49	106.23	110.67
13	GA	1001	CYC	C1B-NB-C4B	-3.49	106.23	110.67
13	PA	201	CYC	CHA-C1A-NA	-3.49	123.99	128.83
13	p8	1001	CYC	CHB-C4A-C3A	3.49	133.87	124.90
13	D5	1001	CYC	C1B-C2B-C3B	-3.49	104.23	107.87
13	e9	1001	CYC	O1A-CGA-CBA	3.49	134.28	123.08
13	39	1001	CYC	O1A-CGA-CBA	3.49	134.28	123.08
13	Q2	201	CYC	O2A-CGA-CBA	3.49	125.23	114.03
13	O9	1001	CYC	O1A-CGA-CBA	3.49	134.28	123.08
13	j9	1001	CYC	O1A-CGA-CBA	3.49	134.28	123.08
13	n8	1001	CYC	CHB-C4A-C3A	3.49	133.86	124.90
13	Z1	202	CYC	C1B-C2B-C3B	-3.49	104.23	107.87
13	L3	201	CYC	O2A-CGA-CBA	3.48	125.23	114.03
13	A7	301	CYC	O2A-CGA-CBA	3.48	125.23	114.03
13	D4	1001	CYC	C1B-C2B-C3B	-3.48	104.23	107.87
13	W5	1001	CYC	C1B-C2B-C3B	-3.48	104.23	107.87
13	R6	1001	CYC	C1B-C2B-C3B	-3.48	104.23	107.87
13	Y1	201	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	D3	1001	CYC	C1B-NB-C4B	-3.48	106.23	110.67
13	P8	1001	CYC	CAB-C3B-C4B	3.48	126.88	121.38
13	G7	201	CYC	C1B-NB-C4B	-3.48	106.23	110.67
13	19	1205	CYC	O1A-CGA-CBA	3.48	134.27	123.08
13	N2	302	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	R4	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	B5	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	C6	201	CYC	O2A-CGA-CBA	3.48	125.22	114.03
13	S9	1001	CYC	O1A-CGA-CBA	3.48	134.27	123.08
13	U2	202	CYC	O2A-CGA-CBA	3.48	125.22	114.03
13	O8	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	GA	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	L9	1001	CYC	O1A-CGA-CBA	3.48	134.26	123.08
13	l9	1001	CYC	C1A-C2A-C3A	-3.48	102.93	106.78
13	J2	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	Y2	201	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	Q4	201	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	V6	202	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	MA	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	J9	1001	CYC	O1A-CGA-CBA	3.48	134.26	123.08
13	L7	201	CYC	O2A-CGA-CBA	3.48	125.21	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Y8	1001	CYC	CAB-C3B-C4B	3.48	126.87	121.38
13	Q1	201	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	l9	1001	CYC	O1A-CGA-CBA	3.48	134.26	123.08
13	e9	1001	CYC	C1A-C2A-C3A	-3.48	102.93	106.78
13	F4	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	LA	201	CYC	C1B-NB-C4B	-3.48	106.24	110.67
13	T8	1001	CYC	CAB-C3B-C4B	3.48	126.87	121.38
13	19	1204	CYC	C1A-C2A-C3A	-3.48	102.93	106.78
13	H8	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	X8	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	I7	201	CYC	CHA-C1A-NA	-3.48	124.00	128.83
13	D7	1001	CYC	O2A-CGA-CBA	3.48	125.20	114.03
13	Y5	201	CYC	C1B-NB-C4B	-3.48	106.24	110.67
13	S6	1001	CYC	C1B-NB-C4B	-3.48	106.24	110.67
13	U9	1001	CYC	C1A-C2A-C3A	-3.48	102.94	106.78
13	Q2	201	CYC	C1B-NB-C4B	-3.48	106.24	110.67
13	L8	1001	CYC	CHB-C4A-C3A	3.48	133.84	124.90
13	A8	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
13	c9	1001	CYC	C1A-C2A-C3A	-3.48	102.94	106.78
13	c9	1001	CYC	O1A-CGA-CBA	3.47	134.25	123.08
13	r9	1001	CYC	O1A-CGA-CBA	3.47	134.25	123.08
13	T4	202	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
13	t8	1001	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
13	R4	1001	CYC	O2A-CGA-CBA	3.47	125.19	114.03
13	Z6	202	CYC	O2A-CGA-CBA	3.47	125.19	114.03
13	I6	201	CYC	CHA-C1A-NA	-3.47	124.01	128.83
13	A3	301	CYC	O2A-CGA-CBA	3.47	125.19	114.03
13	H9	1001	CYC	O1A-CGA-CBA	3.47	134.24	123.08
13	L5	201	CYC	C1B-NB-C4B	-3.47	106.25	110.67
13	M5	1001	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
13	F9	1001	CYC	O1A-CGA-CBA	3.47	134.24	123.08
13	g8	1001	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
13	T1	202	CYC	C1B-NB-C4B	-3.47	106.25	110.67
13	J5	1001	CYC	C1B-NB-C4B	-3.47	106.25	110.67
13	C2	201	CYC	O2A-CGA-CBA	3.47	125.19	114.03
13	x9	1001	CYC	C1A-C2A-C3A	-3.47	102.94	106.78
13	D9	1001	CYC	O1A-CGA-CBA	3.47	134.23	123.08
13	c8	1001	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
13	B1	1001	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
13	R2	1001	CYC	C1B-NB-C4B	-3.47	106.25	110.67
13	09	1203	CYC	O1A-CGA-CBA	3.47	134.23	123.08
13	t9	1001	CYC	O1A-CGA-CBA	3.47	134.23	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	S9	1001	CYC	C1A-C2A-C3A	-3.47	102.94	106.78
13	v9	1001	CYC	O1A-CGA-CBA	3.47	134.23	123.08
13	S5	1001	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
13	D3	1001	CYC	O2A-CGA-CBA	3.47	125.17	114.03
13	B9	1001	CYC	O1A-CGA-CBA	3.47	134.22	123.08
13	O5	1001	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
13	U6	202	CYC	O2A-CGA-CBA	3.47	125.17	114.03
13	29	1001	CYC	O1A-CGA-CBA	3.47	134.22	123.08
13	09	1203	CYC	C1A-C2A-C3A	-3.47	102.94	106.78
13	09	1202	CYC	C2C-C1C-NC	3.47	111.26	108.27
13	V4	202	CYC	C1B-NB-C4B	-3.47	106.25	110.67
13	U9	1001	CYC	O1A-CGA-CBA	3.47	134.22	123.08
13	O9	1001	CYC	C1A-C2A-C3A	-3.47	102.95	106.78
13	Z4	202	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
13	B4	1001	CYC	C1B-NB-C4B	-3.47	106.26	110.67
13	z9	1001	CYC	O1A-CGA-CBA	3.47	134.22	123.08
13	x9	1001	CYC	O1A-CGA-CBA	3.47	134.22	123.08
13	A3	301	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
13	B4	1001	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
13	PA	203	CYC	O2A-CGA-CBA	3.46	125.16	114.03
13	Q4	201	CYC	O2A-CGA-CBA	3.46	125.16	114.03
13	P5	203	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	Y5	201	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	C6	201	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	YA	201	CYC	O2A-CGA-CBA	3.46	125.16	114.03
13	H9	1001	CYC	C1A-C2A-C3A	-3.46	102.95	106.78
13	D2	1001	CYC	O2A-CGA-CBA	3.46	125.16	114.03
13	Z2	202	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	P5	201	CYC	CHA-C1A-NA	-3.46	124.02	128.83
13	U1	1001	CYC	O2A-CGA-CBA	3.46	125.16	114.03
13	N6	302	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	19	1203	CYC	O1A-CGA-CBA	3.46	134.20	123.08
13	W2	202	CYC	C1B-NB-C4B	-3.46	106.26	110.67
13	F6	1001	CYC	O2A-CGA-CBA	3.46	125.15	114.03
13	F7	1001	CYC	O2A-CGA-CBA	3.46	125.15	114.03
13	T1	202	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	L8	1001	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	O1	1001	CYC	C1B-NB-C4B	-3.46	106.26	110.67
13	J2	1001	CYC	C1B-NB-C4B	-3.46	106.26	110.67
13	S2	1001	CYC	O2A-CGA-CBA	3.46	125.15	114.03
13	U5	1001	CYC	O2A-CGA-CBA	3.46	125.15	114.03
13	Q6	201	CYC	O2A-CGA-CBA	3.46	125.15	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	p9	1001	CYC	O1A-CGA-CBA	3.46	134.20	123.08
13	P2	201	CYC	CHA-C1A-NA	-3.46	124.03	128.83
13	Q1	201	CYC	C1B-NB-C4B	-3.46	106.26	110.67
13	Q4	201	CYC	C1B-NB-C4B	-3.46	106.26	110.67
13	L1	201	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	L4	201	CYC	O2A-CGA-CBA	3.46	125.15	114.03
13	J9	1001	CYC	C1A-C2A-C3A	-3.46	102.95	106.78
13	C4	301	CYC	O2A-CGA-CBA	3.46	125.15	114.03
13	Y6	201	CYC	C1B-NB-C4B	-3.46	106.26	110.67
13	V6	202	CYC	O2A-CGA-CBA	3.46	125.14	114.03
13	Y4	201	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	C8	1001	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	e8	1001	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	O6	1001	CYC	O2A-CGA-CBA	3.46	125.14	114.03
13	V8	1001	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	R6	1001	CYC	C1B-NB-C4B	-3.46	106.27	110.67
13	P1	201	CYC	CHA-C1A-NA	-3.46	124.03	128.83
13	A5	304	CYC	CHA-C1A-NA	-3.46	124.03	128.83
13	O4	1001	CYC	O2A-CGA-CBA	3.46	125.14	114.03
13	S2	1001	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
13	P6	201	CYC	CHA-C1A-NA	-3.46	124.03	128.83
13	V2	202	CYC	O2A-CGA-CBA	3.46	125.14	114.03
13	R1	1001	CYC	O2A-CGA-CBA	3.46	125.14	114.03
13	G7	201	CYC	O2A-CGA-CBA	3.46	125.14	114.03
13	Y5	201	CYC	O2A-CGA-CBA	3.46	125.13	114.03
13	P4	201	CYC	CHA-C1A-NA	-3.46	124.03	128.83
13	B9	1001	CYC	C1A-C2A-C3A	-3.45	102.96	106.78
13	G1	202	CYC	C1B-C2B-C3B	-3.45	104.27	107.87
13	SA	1001	CYC	C1B-NB-C4B	-3.45	106.27	110.67
13	Z1	202	CYC	O2A-CGA-CBA	3.45	125.13	114.03
13	D2	1001	CYC	C1B-C2B-C3B	-3.45	104.27	107.87
13	D6	1001	CYC	C1B-C2B-C3B	-3.45	104.27	107.87
13	O2	1001	CYC	O2A-CGA-CBA	3.45	125.13	114.03
13	Y4	201	CYC	O2A-CGA-CBA	3.45	125.13	114.03
13	AA	304	CYC	CHA-C1A-NA	-3.45	124.04	128.83
13	C1	301	CYC	O2A-CGA-CBA	3.45	125.12	114.03
13	O1	1001	CYC	O2A-CGA-CBA	3.45	125.12	114.03
13	U4	1001	CYC	O2A-CGA-CBA	3.45	125.12	114.03
13	19	1203	CYC	C1A-C2A-C3A	-3.45	102.96	106.78
13	F3	1001	CYC	O2A-CGA-CBA	3.45	125.12	114.03
13	B5	1001	CYC	O2A-CGA-CBA	3.45	125.12	114.03
13	Q1	201	CYC	O2A-CGA-CBA	3.45	125.12	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	D6	1001	CYC	O2A-CGA-CBA	3.45	125.12	114.03
13	Z6	202	CYC	C1B-NB-C4B	-3.45	106.28	110.67
13	39	1001	CYC	C1A-C2A-C3A	-3.45	102.96	106.78
13	z9	1001	CYC	C1A-C2A-C3A	-3.45	102.96	106.78
13	SA	1001	CYC	O2A-CGA-CBA	3.45	125.11	114.03
13	R1	1001	CYC	C1B-C2B-C3B	-3.45	104.27	107.87
13	V1	202	CYC	C1B-NB-C4B	-3.45	106.28	110.67
13	I1	201	CYC	CHA-C1A-NA	-3.45	124.04	128.83
13	F2	1001	CYC	O2A-CGA-CBA	3.45	125.11	114.03
13	P5	203	CYC	O2A-CGA-CBA	3.45	125.11	114.03
13	JA	1001	CYC	C1B-C2B-C3B	-3.45	104.27	107.87
13	G6	202	CYC	O2A-CGA-CBA	3.45	125.11	114.03
13	G1	202	CYC	C1B-NB-C4B	-3.45	106.28	110.67
13	E5	202	CYC	C1B-NB-C4B	-3.45	106.28	110.67
13	Z2	202	CYC	O2A-CGA-CBA	3.45	125.11	114.03
13	Y2	201	CYC	O2A-CGA-CBA	3.45	125.11	114.03
13	Y6	201	CYC	O2A-CGA-CBA	3.45	125.11	114.03
13	JA	1001	CYC	O2A-CGA-CBA	3.45	125.11	114.03
13	G3	201	CYC	O2A-CGA-CBA	3.45	125.10	114.03
13	N6	302	CYC	C1B-NB-C4B	-3.45	106.28	110.67
13	D7	1001	CYC	C1B-NB-C4B	-3.45	106.28	110.67
13	YA	201	CYC	C1B-NB-C4B	-3.45	106.28	110.67
13	S6	1001	CYC	O2A-CGA-CBA	3.45	125.10	114.03
13	A7	301	CYC	C1B-C2B-C3B	-3.45	104.28	107.87
13	YA	201	CYC	C1B-C2B-C3B	-3.45	104.28	107.87
13	Y1	201	CYC	O2A-CGA-CBA	3.45	125.10	114.03
13	O5	1001	CYC	O2A-CGA-CBA	3.45	125.10	114.03
13	S4	1001	CYC	C1B-NB-C4B	-3.45	106.28	110.67
13	P5	203	CYC	C1B-NB-C4B	-3.45	106.28	110.67
13	B6	1001	CYC	O2A-CGA-CBA	3.45	125.10	114.03
13	EA	202	CYC	O2A-CGA-CBA	3.45	125.10	114.03
13	E5	202	CYC	O2A-CGA-CBA	3.44	125.10	114.03
13	J5	1001	CYC	O2A-CGA-CBA	3.44	125.10	114.03
13	V1	202	CYC	O2A-CGA-CBA	3.44	125.10	114.03
13	J1	1001	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
13	EA	202	CYC	C1B-NB-C4B	-3.44	106.28	110.67
13	V4	202	CYC	O2A-CGA-CBA	3.44	125.09	114.03
13	J6	1001	CYC	O2A-CGA-CBA	3.44	125.09	114.03
13	Z4	202	CYC	C1B-NB-C4B	-3.44	106.28	110.67
13	MA	1001	CYC	C1B-NB-C4B	-3.44	106.28	110.67
13	S6	1001	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
13	B7	1001	CYC	O2A-CGA-CBA	3.44	125.09	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	I4	201	CYC	CHA-C1A-NA	-3.44	124.05	128.83
13	r8	1001	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
13	L1	201	CYC	O2A-CGA-CBA	3.44	125.09	114.03
13	U6	202	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
13	OA	1001	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
13	j9	1001	CYC	C1A-C2A-C3A	-3.44	102.97	106.78
13	F7	1001	CYC	C1B-NB-C4B	-3.44	106.29	110.67
13	L6	201	CYC	O2A-CGA-CBA	3.44	125.08	114.03
13	G3	201	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
13	D6	1001	CYC	C1B-NB-C4B	-3.44	106.29	110.67
13	S5	1001	CYC	C1B-NB-C4B	-3.44	106.29	110.67
13	n8	1001	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
13	G4	202	CYC	O2A-CGA-CBA	3.44	125.08	114.03
13	M5	1001	CYC	O2A-CGA-CBA	3.44	125.08	114.03
13	OA	1001	CYC	O2A-CGA-CBA	3.44	125.08	114.03
13	LA	201	CYC	O2A-CGA-CBA	3.44	125.08	114.03
13	V5	201	CYC	CHA-C1A-NA	-3.44	124.06	128.83
13	M5	1001	CYC	C1B-NB-C4B	-3.44	106.29	110.67
13	G1	202	CYC	O2A-CGA-CBA	3.44	125.08	114.03
13	J1	1001	CYC	O2A-CGA-CBA	3.44	125.08	114.03
13	J4	1001	CYC	O2A-CGA-CBA	3.44	125.08	114.03
13	T4	202	CYC	C1B-NB-C4B	-3.44	106.29	110.67
13	IA	201	CYC	CHA-C1A-NA	-3.44	124.06	128.83
13	D2	1001	CYC	C1B-NB-C4B	-3.44	106.29	110.67
13	I2	201	CYC	CHA-C1A-NA	-3.44	124.06	128.83
13	B3	1001	CYC	O2A-CGA-CBA	3.44	125.07	114.03
13	F1	1001	CYC	O2A-CGA-CBA	3.43	125.07	114.03
13	L2	201	CYC	O2A-CGA-CBA	3.43	125.06	114.03
13	L4	201	CYC	C1B-NB-C4B	-3.43	106.30	110.67
13	W6	202	CYC	C1B-NB-C4B	-3.43	106.30	110.67
13	V4	202	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
13	I5	201	CYC	CHA-C1A-NA	-3.43	124.06	128.83
13	GA	1001	CYC	O2A-CGA-CBA	3.43	125.06	114.03
13	Z4	202	CYC	O2A-CGA-CBA	3.43	125.06	114.03
13	DA	1001	CYC	C1B-NB-C4B	-3.43	106.30	110.67
13	29	1001	CYC	C1A-C2A-C3A	-3.43	102.98	106.78
13	39	1001	CYC	C1B-CHB-C4A	3.43	136.47	128.08
13	MA	1001	CYC	O2A-CGA-CBA	3.43	125.06	114.03
13	G7	201	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
13	O6	1001	CYC	C1B-NB-C4B	-3.43	106.30	110.67
13	PA	203	CYC	C1B-NB-C4B	-3.43	106.30	110.67
13	D5	1001	CYC	C1B-NB-C4B	-3.43	106.30	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	F4	1001	CYC	O2A-CGA-CBA	3.43	125.05	114.03
13	D5	1001	CYC	O2A-CGA-CBA	3.43	125.05	114.03
13	UA	1001	CYC	O2A-CGA-CBA	3.43	125.05	114.03
13	R6	1001	CYC	O2A-CGA-CBA	3.43	125.05	114.03
13	L2	201	CYC	C1B-NB-C4B	-3.43	106.30	110.67
13	Y4	201	CYC	C1B-NB-C4B	-3.43	106.30	110.67
13	WA	1001	CYC	C1B-NB-C4B	-3.43	106.30	110.67
13	N2	302	CYC	O2A-CGA-CBA	3.43	125.05	114.03
13	DA	1001	CYC	O2A-CGA-CBA	3.43	125.05	114.03
13	F3	1001	CYC	C1B-NB-C4B	-3.43	106.30	110.67
13	B2	1001	CYC	O2A-CGA-CBA	3.43	125.05	114.03
13	W5	1001	CYC	O2A-CGA-CBA	3.43	125.05	114.03
13	G2	202	CYC	O2A-CGA-CBA	3.43	125.05	114.03
13	W2	202	CYC	O2A-CGA-CBA	3.43	125.05	114.03
13	L5	201	CYC	O2A-CGA-CBA	3.43	125.05	114.03
13	F1	1001	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
13	Y6	201	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
13	B4	1001	CYC	O2A-CGA-CBA	3.43	125.04	114.03
13	T1	202	CYC	O2A-CGA-CBA	3.43	125.04	114.03
13	J2	1001	CYC	O2A-CGA-CBA	3.43	125.04	114.03
13	p9	1001	CYC	C1B-CHB-C4A	3.43	136.45	128.08
13	O4	1001	CYC	C1B-NB-C4B	-3.43	106.31	110.67
13	X1	201	CYC	CHA-C1A-NA	-3.43	124.08	128.83
13	S4	1001	CYC	O2A-CGA-CBA	3.43	125.04	114.03
13	R2	1001	CYC	O2A-CGA-CBA	3.42	125.03	114.03
13	N6	302	CYC	O2A-CGA-CBA	3.42	125.03	114.03
13	O2	1001	CYC	C1B-NB-C4B	-3.42	106.31	110.67
13	L3	201	CYC	C1B-NB-C4B	-3.42	106.31	110.67
13	O5	1001	CYC	C1B-NB-C4B	-3.42	106.31	110.67
13	W6	202	CYC	O2A-CGA-CBA	3.42	125.03	114.03
13	J4	1001	CYC	C1B-C2B-C3B	-3.42	104.30	107.87
13	H3	1001	CYC	O2A-CGA-CBA	3.42	125.03	114.03
13	Y1	201	CYC	C1B-NB-C4B	-3.42	106.31	110.67
13	Y2	201	CYC	C1B-NB-C4B	-3.42	106.31	110.67
13	W4	1001	CYC	O2A-CGA-CBA	3.42	125.03	114.03
13	x9	1001	CYC	C1B-CHB-C4A	3.42	136.44	128.08
13	S5	1001	CYC	O2A-CGA-CBA	3.42	125.03	114.03
13	U9	1001	CYC	C1B-CHB-C4A	3.42	136.44	128.08
13	29	1001	CYC	C1B-CHB-C4A	3.42	136.44	128.08
13	B9	1001	CYC	C1B-CHB-C4A	3.42	136.44	128.08
13	t9	1001	CYC	C1B-CHB-C4A	3.42	136.44	128.08
13	p8	1001	CYC	C1B-C2B-C3B	-3.42	104.30	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	N5	301	CYC	CHA-C1A-NA	-3.42	124.08	128.83
13	H2	1001	CYC	O2A-CGA-CBA	3.42	125.02	114.03
13	D1	1001	CYC	O2A-CGA-CBA	3.42	125.02	114.03
13	O9	1001	CYC	C1B-CHB-C4A	3.42	136.44	128.08
13	U4	1001	CYC	C1B-NB-C4B	-3.42	106.31	110.67
13	v9	1001	CYC	C1B-CHB-C4A	3.42	136.44	128.08
13	B1	1001	CYC	O2A-CGA-CBA	3.42	125.02	114.03
13	T4	202	CYC	O2A-CGA-CBA	3.42	125.02	114.03
13	D3	1001	CYC	C1B-C2B-C3B	-3.42	104.30	107.87
13	U2	202	CYC	C1B-C2B-C3B	-3.42	104.30	107.87
13	L6	201	CYC	C1B-NB-C4B	-3.42	106.32	110.67
13	L9	1001	CYC	C1B-CHB-C4A	3.42	136.43	128.08
13	WA	1001	CYC	O2A-CGA-CBA	3.42	125.01	114.03
13	l9	1001	CYC	C1B-CHB-C4A	3.42	136.43	128.08
13	J1	1001	CYC	C1B-NB-C4B	-3.42	106.32	110.67
13	N2	302	CYC	C1B-NB-C4B	-3.42	106.32	110.67
13	D4	1001	CYC	O2A-CGA-CBA	3.42	125.00	114.03
13	NA	301	CYC	CHA-C1A-NA	-3.41	124.09	128.83
13	19	1204	CYC	C1B-CHB-C4A	3.41	136.42	128.08
13	H6	1001	CYC	O2A-CGA-CBA	3.41	125.00	114.03
13	J7	1001	CYC	O2A-CGA-CBA	3.41	125.00	114.03
13	z9	1001	CYC	C1B-CHB-C4A	3.41	136.42	128.08
13	Q1	201	CYC	CHB-C4A-C3A	3.41	133.68	124.90
13	S1	1001	CYC	O2A-CGA-CBA	3.41	125.00	114.03
13	JA	1001	CYC	C1B-NB-C4B	-3.41	106.32	110.67
13	S9	1001	CYC	C1B-CHB-C4A	3.41	136.42	128.08
13	W1	1001	CYC	C1B-NB-C4B	-3.41	106.33	110.67
13	09	1203	CYC	C1B-CHB-C4A	3.41	136.41	128.08
13	J9	1001	CYC	C1B-CHB-C4A	3.41	136.41	128.08
13	X6	201	CYC	CHA-C1A-NA	-3.41	124.10	128.83
13	D1	1001	CYC	C1B-NB-C4B	-3.41	106.33	110.67
13	W1	1001	CYC	O2A-CGA-CBA	3.41	124.98	114.03
13	L7	201	CYC	C1B-NB-C4B	-3.41	106.33	110.67
13	e9	1001	CYC	C1B-CHB-C4A	3.41	136.41	128.08
13	XA	201	CYC	CHA-C1A-NA	-3.41	124.10	128.83
13	X4	201	CYC	CHA-C1A-NA	-3.41	124.10	128.83
13	ZA	201	CYC	CHA-C1A-NA	-3.41	124.10	128.83
13	F9	1001	CYC	C1B-CHB-C4A	3.41	136.40	128.08
13	L1	201	CYC	C1B-NB-C4B	-3.40	106.33	110.67
13	S1	1001	CYC	C1B-NB-C4B	-3.40	106.33	110.67
13	UA	1001	CYC	C1B-NB-C4B	-3.40	106.33	110.67
13	19	1205	CYC	C1B-CHB-C4A	3.40	136.40	128.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	W4	1001	CYC	C1B-NB-C4B	-3.40	106.34	110.67
13	H7	1001	CYC	O2A-CGA-CBA	3.40	124.96	114.03
13	H4	1001	CYC	O2A-CGA-CBA	3.40	124.96	114.03
13	A5	301	CYC	OC-C1C-C2C	-3.40	123.47	126.17
13	X2	201	CYC	CHA-C1A-NA	-3.40	124.11	128.83
13	X5	201	CYC	CHA-C1A-NA	-3.40	124.11	128.83
13	r9	1001	CYC	C1B-CHB-C4A	3.40	136.39	128.08
13	J3	1001	CYC	O2A-CGA-CBA	3.40	124.96	114.03
13	B1	1001	CYC	C1B-NB-C4B	-3.40	106.34	110.67
13	J7	1001	CYC	C1B-NB-C4B	-3.40	106.34	110.67
13	H1	1001	CYC	O2A-CGA-CBA	3.40	124.95	114.03
13	D9	1001	CYC	C1B-CHB-C4A	3.40	136.39	128.08
13	U4	1001	CYC	C1B-C2B-C3B	-3.40	104.32	107.87
13	J4	1001	CYC	C1B-NB-C4B	-3.40	106.34	110.67
13	N2	301	CYC	CHA-C1A-NA	-3.40	124.11	128.83
13	D4	1001	CYC	C1B-NB-C4B	-3.40	106.34	110.67
13	c9	1001	CYC	C1B-CHB-C4A	3.40	136.38	128.08
13	W5	1001	CYC	C1B-NB-C4B	-3.40	106.35	110.67
13	j9	1001	CYC	C1B-CHB-C4A	3.39	136.38	128.08
13	T5	201	CYC	CHA-C1A-NA	-3.39	124.12	128.83
13	Q4	201	CYC	CHB-C4A-C3A	3.39	133.63	124.90
13	19	1203	CYC	C1B-CHB-C4A	3.39	136.37	128.08
13	D7	1001	CYC	C1B-C2B-C3B	-3.39	104.33	107.87
13	C4	301	CYC	C1B-NB-C4B	-3.39	106.35	110.67
13	Z5	201	CYC	CHA-C1A-NA	-3.39	124.12	128.83
13	Z1	202	CYC	C1B-NB-C4B	-3.39	106.35	110.67
13	U6	202	CYC	C1B-NB-C4B	-3.39	106.35	110.67
13	C1	301	CYC	C1B-NB-C4B	-3.39	106.35	110.67
13	U1	1001	CYC	C1B-NB-C4B	-3.39	106.35	110.67
13	J3	1001	CYC	C1B-NB-C4B	-3.39	106.35	110.67
13	B2	1001	CYC	CHB-C4A-C3A	3.39	133.62	124.90
13	A5	302	CYC	OC-C1C-C2C	-3.39	123.48	126.17
13	H9	1001	CYC	C1B-CHB-C4A	3.39	136.36	128.08
13	H2	1001	CYC	C1B-NB-C4B	-3.39	106.36	110.67
13	F2	1001	CYC	C1B-NB-C4B	-3.39	106.36	110.67
13	J6	1001	CYC	C1B-NB-C4B	-3.39	106.36	110.67
13	AA	301	CYC	OC-C1C-C2C	-3.39	123.48	126.17
13	U5	1001	CYC	C1B-NB-C4B	-3.39	106.36	110.67
13	B6	1001	CYC	CHB-C4A-C3A	3.38	133.60	124.90
13	B4	1001	CYC	CHB-C4A-C3A	3.38	133.59	124.90
13	OA	1001	CYC	C1B-NB-C4B	-3.38	106.36	110.67
13	C6	201	CYC	C1B-NB-C4B	-3.38	106.37	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	E4	201	CYC	OC-C1C-C2C	-3.38	123.49	126.17
13	R1	1001	CYC	CHB-C4A-C3A	3.38	133.59	124.90
13	TA	201	CYC	CHA-C1A-NA	-3.38	124.14	128.83
13	A3	301	CYC	CHB-C4A-C3A	3.38	133.59	124.90
13	F6	1001	CYC	C1B-NB-C4B	-3.37	106.37	110.67
13	19	1202	CYC	CBD-CAD-C3D	-3.37	106.86	112.62
13	M1	201	CYC	CHA-C1A-NA	-3.37	124.15	128.83
13	M4	201	CYC	CHA-C1A-NA	-3.37	124.15	128.83
13	F1	1001	CYC	C1B-NB-C4B	-3.37	106.38	110.67
13	F4	1001	CYC	C1B-NB-C4B	-3.37	106.38	110.67
13	B7	1001	CYC	CHB-C4A-C3A	3.37	133.57	124.90
13	B3	1001	CYC	CHB-C4A-C3A	3.37	133.56	124.90
13	Q2	201	CYC	CHB-C4A-C3A	3.37	133.56	124.90
13	B5	1001	CYC	CHB-C4A-C3A	3.37	133.56	124.90
13	Y1	201	CYC	CHB-C4A-C3A	3.37	133.56	124.90
13	C6	201	CYC	CHB-C4A-C3A	3.37	133.56	124.90
13	U2	202	CYC	C1B-NB-C4B	-3.37	106.38	110.67
13	H4	1001	CYC	C1B-NB-C4B	-3.37	106.38	110.67
13	A7	301	CYC	CHB-C4A-C3A	3.37	133.56	124.90
13	H1	1001	CYC	C1B-NB-C4B	-3.37	106.38	110.67
13	Z6	202	CYC	CHB-C4A-C3A	3.37	133.55	124.90
13	C2	201	CYC	CHB-C4A-C3A	3.36	133.55	124.90
13	V1	202	CYC	C1B-C2B-C3B	-3.36	104.36	107.87
13	B1	1001	CYC	CHB-C4A-C3A	3.36	133.55	124.90
13	A5	303	CYC	CHA-C1A-NA	-3.36	124.16	128.83
13	W5	1001	CYC	CHB-C4A-C3A	3.36	133.54	124.90
13	V2	202	CYC	CHB-C4A-C3A	3.36	133.54	124.90
13	Y6	201	CYC	CHB-C4A-C3A	3.36	133.54	124.90
13	D5	1001	CYC	CHB-C4A-C3A	3.36	133.54	124.90
13	AA	303	CYC	CHA-C1A-NA	-3.36	124.17	128.83
13	Z4	202	CYC	CHB-C4A-C3A	3.36	133.53	124.90
13	Z1	202	CYC	CHB-C4A-C3A	3.36	133.53	124.90
13	Q6	201	CYC	CHB-C4A-C3A	3.36	133.53	124.90
13	C1	301	CYC	CHB-C4A-C3A	3.35	133.53	124.90
13	Y2	201	CYC	CHB-C4A-C3A	3.35	133.52	124.90
13	PA	203	CYC	CHB-C4A-C3A	3.35	133.52	124.90
13	H6	1001	CYC	C1B-NB-C4B	-3.35	106.40	110.67
13	V6	202	CYC	CHB-C4A-C3A	3.35	133.52	124.90
13	D3	1001	CYC	CHB-C4A-C3A	3.35	133.52	124.90
13	AA	302	CYC	OC-C1C-C2C	-3.35	123.51	126.17
13	L3	201	CYC	CHB-C4A-C3A	3.35	133.52	124.90
13	R2	1001	CYC	CHB-C4A-C3A	3.35	133.52	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	DA	1001	CYC	CHB-C4A-C3A	3.35	133.51	124.90
13	L2	201	CYC	CHB-C4A-C3A	3.35	133.51	124.90
13	D4	1001	CYC	CHB-C4A-C3A	3.35	133.51	124.90
13	R6	1001	CYC	CHB-C4A-C3A	3.35	133.51	124.90
13	P5	203	CYC	CHB-C4A-C3A	3.35	133.51	124.90
13	L7	201	CYC	CHB-C4A-C3A	3.35	133.51	124.90
13	SA	1001	CYC	CHB-C4A-C3A	3.35	133.51	124.90
13	E1	201	CYC	OC-C1C-C2C	-3.35	123.51	126.17
13	E3	201	CYC	OC-C1C-C2C	-3.35	123.51	126.17
13	V4	202	CYC	CHB-C4A-C3A	3.35	133.51	124.90
13	L6	201	CYC	CHB-C4A-C3A	3.35	133.50	124.90
13	W1	1001	CYC	CHB-C4A-C3A	3.35	133.50	124.90
13	GA	1001	CYC	CHB-C4A-C3A	3.35	133.50	124.90
13	EA	202	CYC	CHB-C4A-C3A	3.35	133.50	124.90
13	U5	1001	CYC	CHB-C4A-C3A	3.34	133.50	124.90
13	WA	1001	CYC	CHB-C4A-C3A	3.34	133.50	124.90
13	H6	1001	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	E5	202	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	D1	1001	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	G4	202	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	G7	201	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	W4	1001	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	O5	1001	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	O2	1001	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	W2	202	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	YA	201	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	O6	1001	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	MA	1001	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	G1	202	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	G3	201	CYC	CHB-C4A-C3A	3.34	133.49	124.90
13	F2	1001	CYC	CHB-C4A-C3A	3.34	133.48	124.90
13	C4	301	CYC	CHB-C4A-C3A	3.34	133.48	124.90
13	O4	1001	CYC	CHB-C4A-C3A	3.34	133.48	124.90
13	Z2	202	CYC	CHB-C4A-C3A	3.34	133.48	124.90
13	LA	201	CYC	CHB-C4A-C3A	3.34	133.48	124.90
13	Y4	201	CYC	CHB-C4A-C3A	3.34	133.48	124.90
13	F7	1001	CYC	CHB-C4A-C3A	3.34	133.48	124.90
13	JA	1001	CYC	CHB-C4A-C3A	3.34	133.48	124.90
13	L5	201	CYC	CHB-C4A-C3A	3.34	133.48	124.90
13	J1	1001	CYC	CHB-C4A-C3A	3.33	133.47	124.90
13	F6	1001	CYC	CHB-C4A-C3A	3.33	133.47	124.90
13	H7	1001	CYC	C1B-NB-C4B	-3.33	106.42	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	G2	202	CYC	CHB-C4A-C3A	3.33	133.47	124.90
13	R4	1001	CYC	CHB-C4A-C3A	3.33	133.47	124.90
13	C2	201	CYC	C1B-NB-C4B	-3.33	106.42	110.67
13	T1	202	CYC	CHB-C4A-C3A	3.33	133.47	124.90
13	F3	1001	CYC	CHB-C4A-C3A	3.33	133.47	124.90
13	D7	1001	CYC	CHB-C4A-C3A	3.33	133.47	124.90
13	S1	1001	CYC	CHB-C4A-C3A	3.33	133.47	124.90
13	L4	201	CYC	CHB-C4A-C3A	3.33	133.47	124.90
13	N6	301	CYC	CHA-C1A-NA	-3.33	124.21	128.83
13	F1	1001	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	U4	1001	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	D6	1001	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	F4	1001	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	UA	1001	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	H3	1001	CYC	C1B-NB-C4B	-3.33	106.43	110.67
13	J2	1001	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	U6	202	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	H7	1001	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	S5	1001	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	T4	202	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	G6	202	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	H2	1001	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	Y5	201	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	OA	1001	CYC	CHB-C4A-C3A	3.33	133.46	124.90
13	J4	1001	CYC	CHB-C4A-C3A	3.33	133.45	124.90
13	O1	1001	CYC	CHB-C4A-C3A	3.33	133.45	124.90
13	W6	202	CYC	CHB-C4A-C3A	3.33	133.45	124.90
13	M5	1001	CYC	CHB-C4A-C3A	3.32	133.45	124.90
13	J5	1001	CYC	CHB-C4A-C3A	3.32	133.45	124.90
13	D2	1001	CYC	CHB-C4A-C3A	3.32	133.44	124.90
13	H3	1001	CYC	CHB-C4A-C3A	3.32	133.44	124.90
13	V1	202	CYC	CHB-C4A-C3A	3.32	133.44	124.90
13	L1	201	CYC	CHB-C4A-C3A	3.32	133.44	124.90
13	N6	302	CYC	CHB-C4A-C3A	3.32	133.44	124.90
13	E7	201	CYC	OC-C1C-C2C	-3.32	123.53	126.17
13	U1	1001	CYC	CHB-C4A-C3A	3.32	133.43	124.90
13	U1	1001	CYC	C1B-C2B-C3B	-3.31	104.41	107.87
13	N7	301	CYC	CHA-C1A-NA	-3.31	124.23	128.83
13	N2	302	CYC	CHB-C4A-C3A	3.31	133.41	124.90
13	J6	1001	CYC	CHB-C4A-C3A	3.31	133.41	124.90
13	J3	1001	CYC	CHB-C4A-C3A	3.31	133.41	124.90
13	U2	202	CYC	CHB-C4A-C3A	3.31	133.41	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	S6	1001	CYC	CHB-C4A-C3A	3.30	133.38	124.90
13	J7	1001	CYC	CHB-C4A-C3A	3.30	133.38	124.90
13	S2	1001	CYC	CHB-C4A-C3A	3.30	133.38	124.90
13	S4	1001	CYC	CHB-C4A-C3A	3.29	133.37	124.90
13	H4	1001	CYC	CHB-C4A-C3A	3.28	133.34	124.90
13	N3	301	CYC	CHA-C1A-NA	-3.28	124.28	128.83
13	M5	1002	CYC	CHA-C1A-NA	-3.28	124.28	128.83
13	H1	1001	CYC	CHB-C4A-C3A	3.28	133.33	124.90
13	A7	301	CYC	C1B-NB-C4B	-3.27	106.50	110.67
13	X8	1001	CYC	CMB-C2B-C1B	3.27	128.25	124.17
13	E6	201	CYC	OC-C1C-C2C	-3.26	123.58	126.17
13	g9	1001	CYC	CHA-C1A-NA	-3.26	124.31	128.83
13	S8	1001	CYC	CMB-C2B-C1B	3.26	128.24	124.17
13	c8	1001	CYC	CMB-C2B-C1B	3.26	128.24	124.17
13	AA	301	CYC	C4D-CHA-C1A	3.26	132.70	128.81
13	MA	1002	CYC	CHA-C1A-NA	-3.26	124.31	128.83
13	j8	1001	CYC	CMB-C2B-C1B	3.25	128.23	124.17
13	O8	1001	CYC	CMB-C2B-C1B	3.25	128.23	124.17
13	A3	301	CYC	C1B-NB-C4B	-3.25	106.53	110.67
13	H8	1001	CYC	CMB-C2B-C1B	3.25	128.22	124.17
13	Z8	1001	CYC	CMB-C2B-C1B	3.25	128.22	124.17
13	E2	201	CYC	OC-C1C-C2C	-3.25	123.59	126.17
13	Q8	1001	CYC	CMB-C2B-C1B	3.24	128.22	124.17
13	E8	1001	CYC	CMB-C2B-C1B	3.23	128.21	124.17
13	Q9	201	CYC	OC-C1C-C2C	-3.23	123.60	126.17
13	t8	1001	CYC	CMB-C2B-C1B	3.23	128.21	124.17
13	19	1202	CYC	CHB-C1B-C2B	-3.23	120.54	126.95
13	J8	1001	CYC	CMB-C2B-C1B	3.23	128.20	124.17
13	e8	1001	CYC	CMB-C2B-C1B	3.23	128.20	124.17
13	n8	1001	CYC	CMB-C2B-C1B	3.23	128.20	124.17
13	L8	1001	CYC	CMB-C2B-C1B	3.23	128.20	124.17
13	C8	1001	CYC	CMB-C2B-C1B	3.23	128.20	124.17
13	V8	1001	CYC	CMB-C2B-C1B	3.22	128.19	124.17
13	g8	1001	CYC	CMB-C2B-C1B	3.22	128.19	124.17
13	p8	1001	CYC	C4A-C3A-C2A	-3.22	102.81	106.51
13	l8	1001	CYC	CMB-C2B-C1B	3.22	128.18	124.17
13	D8	1001	CYC	CHB-C4A-C3A	3.21	133.17	124.90
13	E2	201	CYC	C4D-CHA-C1A	3.21	132.64	128.81
13	q8	1001	CYC	CHB-C4A-C3A	3.21	133.15	124.90
13	19	1202	CYC	CHB-C4A-C3A	3.21	133.15	124.90
13	A8	1001	CYC	CMB-C2B-C1B	3.21	128.17	124.17
13	J1	1001	CYC	OC-C1C-C2C	-3.21	123.62	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A5	301	CYC	C4D-CHA-C1A	3.21	132.64	128.81
13	B8	1001	CYC	CHB-C4A-C3A	3.21	133.14	124.90
13	p8	1001	CYC	CMB-C2B-C1B	3.20	128.17	124.17
13	d8	1001	CYC	CHB-C4A-C3A	3.20	133.14	124.90
13	09	1201	CYC	CHB-C4A-C3A	3.20	133.14	124.90
13	T8	1001	CYC	CHB-C4A-C3A	3.20	133.13	124.90
13	h8	1001	CYC	CHB-C4A-C3A	3.20	133.13	124.90
13	f8	1001	CYC	CHB-C4A-C3A	3.20	133.13	124.90
13	L8	1001	CYC	C4A-C3A-C2A	-3.20	102.83	106.51
13	k8	1001	CYC	CHB-C4A-C3A	3.20	133.12	124.90
13	19	1201	CYC	CHB-C4A-C3A	3.20	133.12	124.90
13	AA	302	CYC	C4D-CHA-C1A	3.20	132.63	128.81
13	O8	1001	CYC	C4A-C3A-C2A	-3.20	102.84	106.51
13	I8	1001	CYC	CHB-C4A-C3A	3.20	133.12	124.90
13	W8	1001	CYC	CHB-C4A-C3A	3.20	133.12	124.90
13	r8	1001	CYC	CMB-C2B-C1B	3.20	128.16	124.17
13	M8	1001	CYC	CHB-C4A-C3A	3.19	133.11	124.90
13	K8	1001	CYC	CHB-C4A-C3A	3.19	133.11	124.90
13	e8	1001	CYC	C4A-C3A-C2A	-3.19	102.84	106.51
13	s8	1001	CYC	CHB-C4A-C3A	3.19	133.11	124.90
13	Y8	1001	CYC	CHB-C4A-C3A	3.19	133.11	124.90
13	R8	1001	CYC	CHB-C4A-C3A	3.19	133.10	124.90
13	P8	1001	CYC	CHB-C4A-C3A	3.19	133.09	124.90
13	n8	1001	CYC	C4A-C3A-C2A	-3.19	102.85	106.51
13	b8	1001	CYC	CHB-C4A-C3A	3.18	133.09	124.90
13	Q8	1001	CYC	C4A-C3A-C2A	-3.18	102.85	106.51
13	N5	301	CYC	C1A-C2A-C3A	-3.18	103.26	106.78
13	o8	1001	CYC	CHB-C4A-C3A	3.18	133.08	124.90
13	S8	1001	CYC	C4A-C3A-C2A	-3.18	102.86	106.51
13	E4	201	CYC	C4D-CHA-C1A	3.18	132.61	128.81
13	X2	201	CYC	C1B-NB-C4B	-3.18	106.62	110.67
13	F8	1001	CYC	CHB-C4A-C3A	3.18	133.07	124.90
13	C8	1001	CYC	C4A-C3A-C2A	-3.18	102.86	106.51
13	l8	1001	CYC	C4A-C3A-C2A	-3.18	102.86	106.51
13	c8	1001	CYC	C4A-C3A-C2A	-3.17	102.87	106.51
13	V8	1001	CYC	C4A-C3A-C2A	-3.17	102.87	106.51
13	X5	201	CYC	C1B-NB-C4B	-3.17	106.63	110.67
13	E6	201	CYC	C4D-CHA-C1A	3.17	132.59	128.81
13	H8	1001	CYC	C4A-C3A-C2A	-3.17	102.87	106.51
13	Z8	1001	CYC	C4A-C3A-C2A	-3.16	102.88	106.51
13	X4	201	CYC	C1B-NB-C4B	-3.16	106.64	110.67
13	E8	1001	CYC	C4A-C3A-C2A	-3.16	102.88	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	X6	201	CYC	C1B-NB-C4B	-3.16	106.65	110.67
13	t8	1001	CYC	C4A-C3A-C2A	-3.16	102.88	106.51
13	AA	303	CYC	CMD-C2D-C3D	-3.16	118.99	124.94
13	H4	1001	CYC	C4A-C3A-C2A	-3.16	102.88	106.51
13	g8	1001	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
13	E7	201	CYC	C4D-CHA-C1A	3.15	132.58	128.81
13	I2	201	CYC	C1A-C2A-C3A	-3.15	103.29	106.78
13	X1	201	CYC	CMD-C2D-C3D	-3.15	119.00	124.94
13	X1	201	CYC	C1B-NB-C4B	-3.15	106.66	110.67
13	J8	1001	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
13	E1	201	CYC	C4D-CHA-C1A	3.15	132.57	128.81
13	A5	302	CYC	C4D-CHA-C1A	3.15	132.57	128.81
13	XA	201	CYC	C1B-NB-C4B	-3.15	106.66	110.67
13	A5	303	CYC	CMD-C2D-C3D	-3.14	119.02	124.94
13	I3	201	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
13	r8	1001	CYC	C4A-C3A-C2A	-3.14	102.90	106.51
13	J4	1001	CYC	OC-C1C-C2C	-3.14	123.68	126.17
13	J6	1001	CYC	OC-C1C-C2C	-3.14	123.68	126.17
13	j8	1001	CYC	C4A-C3A-C2A	-3.14	102.91	106.51
13	X8	1001	CYC	C4A-C3A-C2A	-3.14	102.91	106.51
13	09	1202	CYC	C4D-CHA-C1A	3.14	132.56	128.81
13	A8	1001	CYC	C4A-C3A-C2A	-3.14	102.91	106.51
13	I7	201	CYC	C1A-C2A-C3A	-3.13	103.31	106.78
13	C1	301	CYC	OC-C1C-C2C	-3.13	123.68	126.17
13	I1	201	CYC	C1A-C2A-C3A	-3.13	103.31	106.78
13	AA	304	CYC	C1A-C2A-C3A	-3.13	103.32	106.78
13	K8	1001	CYC	C4D-CHA-C1A	3.13	132.55	128.81
13	U1	1001	CYC	C4A-C3A-C2A	-3.13	102.92	106.51
13	IA	201	CYC	C1A-C2A-C3A	-3.12	103.33	106.78
13	X4	201	CYC	CMD-C2D-C3D	-3.12	119.06	124.94
13	A5	304	CYC	C1A-C2A-C3A	-3.12	103.33	106.78
13	G2	202	CYC	CMB-C2B-C1B	3.12	128.06	124.17
13	Y8	1001	CYC	CMB-C2B-C1B	3.12	128.06	124.17
13	E3	201	CYC	C4D-CHA-C1A	3.12	132.54	128.81
13	s8	1001	CYC	C4D-CHA-C1A	3.12	132.54	128.81
13	k8	1001	CYC	C4D-CHA-C1A	3.12	132.54	128.81
13	V5	201	CYC	C1B-NB-C4B	-3.12	106.70	110.67
13	F8	1001	CYC	CHA-C1A-NA	-3.12	124.50	128.83
13	k8	1001	CYC	CHA-C1A-NA	-3.12	124.50	128.83
13	D8	1001	CYC	CMB-C2B-C1B	3.12	128.06	124.17
13	T8	1001	CYC	CMB-C2B-C1B	3.12	128.06	124.17
13	s8	1001	CYC	CMB-C2B-C1B	3.12	128.06	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	I5	201	CYC	C1A-C2A-C3A	-3.12	103.33	106.78
13	h8	1001	CYC	C4D-CHA-C1A	3.12	132.53	128.81
13	q8	1001	CYC	C4D-CHA-C1A	3.12	132.53	128.81
13	S4	1001	CYC	C4A-C3A-C2A	-3.11	102.93	106.51
13	I4	201	CYC	C1A-C2A-C3A	-3.11	103.34	106.78
13	F3	1001	CYC	CMB-C2B-C1B	3.11	128.06	124.17
13	M8	1001	CYC	CMB-C2B-C1B	3.11	128.05	124.17
13	q8	1001	CYC	CMB-C2B-C1B	3.11	128.05	124.17
13	H1	1001	CYC	C4A-C3A-C2A	-3.11	102.94	106.51
13	Y2	201	CYC	C4A-C3A-C2A	-3.11	102.94	106.51
13	W4	1001	CYC	C4A-C3A-C2A	-3.11	102.94	106.51
13	B1	1001	CYC	OC-C1C-C2C	-3.11	123.70	126.17
13	Q1	201	CYC	OC-C1C-C2C	-3.11	123.70	126.17
13	H3	1001	CYC	C4A-C3A-C2A	-3.11	102.94	106.51
13	W8	1001	CYC	CMB-C2B-C1B	3.11	128.05	124.17
13	h8	1001	CYC	CMB-C2B-C1B	3.11	128.04	124.17
13	s8	1001	CYC	CHA-C1A-NA	-3.10	124.52	128.83
13	NA	301	CYC	C1A-C2A-C3A	-3.10	103.35	106.78
13	AA	304	CYC	CMD-C2D-C3D	-3.10	119.09	124.94
13	Y8	1001	CYC	CHA-C1A-NA	-3.10	124.52	128.83
13	J3	1001	CYC	C4A-C3A-C2A	-3.10	102.94	106.51
13	J5	1001	CYC	C4A-C3A-C2A	-3.10	102.94	106.51
13	B8	1001	CYC	C4A-C3A-C2A	-3.10	102.94	106.51
13	NA	301	CYC	C1B-NB-C4B	-3.10	106.72	110.67
13	F7	1001	CYC	CMB-C2B-C1B	3.10	128.04	124.17
13	R8	1001	CYC	C4D-CHA-C1A	3.10	132.51	128.81
13	19	1201	CYC	C4D-CHA-C1A	3.10	132.51	128.81
13	W6	202	CYC	OC-C1C-C2C	-3.10	123.71	126.17
13	O1	1001	CYC	C4A-C3A-C2A	-3.10	102.95	106.51
13	J7	1001	CYC	C4A-C3A-C2A	-3.10	102.95	106.51
13	X5	201	CYC	CMD-C2D-C3D	-3.10	119.10	124.94
13	b8	1001	CYC	C4D-CHA-C1A	3.10	132.51	128.81
13	K8	1001	CYC	CHA-C1A-NA	-3.10	124.53	128.83
13	h8	1001	CYC	CHA-C1A-NA	-3.10	124.53	128.83
13	b8	1001	CYC	CHA-C1A-NA	-3.10	124.53	128.83
13	Y8	1001	CYC	C4D-CHA-C1A	3.10	132.51	128.81
13	P8	1001	CYC	CMB-C2B-C1B	3.10	128.03	124.17
13	W1	1001	CYC	C4A-C3A-C2A	-3.10	102.95	106.51
13	X2	201	CYC	CMD-C2D-C3D	-3.10	119.10	124.94
13	V1	202	CYC	C4A-C3A-C2A	-3.10	102.95	106.51
13	H7	1001	CYC	C4A-C3A-C2A	-3.10	102.95	106.51
13	JA	1001	CYC	C4A-C3A-C2A	-3.10	102.95	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	C9	1001	CYC	CMC-C2C-C1C	-3.10	105.73	112.40
13	R8	1001	CYC	CMB-C2B-C1B	3.09	128.03	124.17
13	m9	201	CYC	CHB-C4A-C3A	3.09	132.86	124.90
13	U2	202	CYC	C4A-C3A-C2A	-3.09	102.95	106.51
13	W2	202	CYC	C4A-C3A-C2A	-3.09	102.95	106.51
13	q8	1001	CYC	CHA-C1A-NA	-3.09	124.53	128.83
13	V9	201	CYC	CHB-C4A-C3A	3.09	132.85	124.90
13	19	1201	CYC	CHA-C1A-NA	-3.09	124.54	128.83
13	X6	201	CYC	CMD-C2D-C3D	-3.09	119.11	124.94
13	N2	302	CYC	CMB-C2B-C1B	3.09	128.03	124.17
13	k9	1001	CYC	CMC-C2C-C1C	-3.09	105.74	112.40
13	U4	1001	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
13	Y6	201	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
13	d8	1001	CYC	C4D-CHA-C1A	3.09	132.50	128.81
13	VA	201	CYC	C1B-NB-C4B	-3.09	106.74	110.67
13	C2	201	CYC	OC-C1C-C2C	-3.09	123.72	126.17
13	J2	1001	CYC	OC-C1C-C2C	-3.09	123.72	126.17
13	I6	201	CYC	C1A-C2A-C3A	-3.09	103.36	106.78
13	b8	1001	CYC	CMB-C2B-C1B	3.09	128.02	124.17
13	d8	1001	CYC	CMB-C2B-C1B	3.09	128.02	124.17
13	E9	1001	CYC	CMC-C2C-C1C	-3.09	105.75	112.40
13	I8	1001	CYC	CMB-C2B-C1B	3.09	128.02	124.17
13	d8	1001	CYC	CHA-C1A-NA	-3.09	124.55	128.83
13	WA	1001	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
13	F8	1001	CYC	C4D-CHA-C1A	3.09	132.50	128.81
13	L1	201	CYC	OC-C1C-C2C	-3.09	123.72	126.17
13	P9	1001	CYC	CMC-C2C-C1C	-3.09	105.75	112.40
13	19	1201	CYC	CMB-C2B-C1B	3.09	128.02	124.17
13	C4	301	CYC	OC-C1C-C2C	-3.09	123.72	126.17
13	O4	1001	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
13	09	1201	CYC	CMB-C2B-C1B	3.08	128.02	124.17
13	F2	1001	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
13	A5	304	CYC	CMD-C2D-C3D	-3.08	119.13	124.94
13	P8	1001	CYC	C4D-CHA-C1A	3.08	132.49	128.81
13	09	1201	CYC	CHA-C1A-NA	-3.08	124.55	128.83
13	Z9	1001	CYC	CMC-C2C-C1C	-3.08	105.76	112.40
13	I8	1001	CYC	CHA-C1A-NA	-3.08	124.55	128.83
13	I6	201	CYC	CMD-C2D-C3D	-3.08	119.13	124.94
13	N9	1001	CYC	CMC-C2C-C1C	-3.08	105.76	112.40
13	S1	1001	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
13	C6	201	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
13	H6	1001	CYC	C4A-C3A-C2A	-3.08	102.97	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	j9	1001	CYC	CHB-C4A-C3A	3.08	132.82	124.90
13	W8	1001	CYC	C4D-CHA-C1A	3.08	132.49	128.81
13	o8	1001	CYC	C4D-CHA-C1A	3.08	132.49	128.81
13	f8	1001	CYC	CMB-C2B-C1B	3.08	128.01	124.17
13	C4	301	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
13	U6	202	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
13	XA	201	CYC	CMD-C2D-C3D	-3.08	119.14	124.94
13	S5	1001	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
13	I5	201	CYC	CMD-C2D-C3D	-3.08	119.14	124.94
13	B8	1001	CYC	CMB-C2B-C1B	3.08	128.01	124.17
13	G3	201	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
13	K8	1001	CYC	CMB-C2B-C1B	3.08	128.01	124.17
13	P8	1001	CYC	CHA-C1A-NA	-3.08	124.56	128.83
13	f8	1001	CYC	CHA-C1A-NA	-3.08	124.56	128.83
13	k8	1001	CYC	CMB-C2B-C1B	3.08	128.01	124.17
13	O5	1001	CYC	C4A-C3A-C2A	-3.08	102.98	106.51
13	T8	1001	CYC	CHA-C1A-NA	-3.08	124.56	128.83
13	IA	201	CYC	CMD-C2D-C3D	-3.08	119.14	124.94
13	d9	1001	CYC	CMC-C2C-C1C	-3.08	105.77	112.40
13	H9	1001	CYC	CHB-C4A-C3A	3.08	132.81	124.90
13	S2	1001	CYC	C4A-C3A-C2A	-3.08	102.98	106.51
13	x9	1001	CYC	CHB-C4A-C3A	3.07	132.81	124.90
13	B8	1001	CYC	C4D-CHA-C1A	3.07	132.48	128.81
13	D9	1001	CYC	CHB-C4A-C3A	3.07	132.81	124.90
13	v9	1001	CYC	CHB-C4A-C3A	3.07	132.81	124.90
13	T4	202	CYC	CMB-C2B-C1B	3.07	128.00	124.17
13	S4	1001	CYC	OC-C1C-C2C	-3.07	123.73	126.17
13	k8	1001	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
13	19	1204	CYC	CHB-C4A-C3A	3.07	132.80	124.90
13	D5	1001	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
13	09	1203	CYC	CHB-C4A-C3A	3.07	132.80	124.90
13	19	1203	CYC	CHB-C4A-C3A	3.07	132.80	124.90
13	W8	1001	CYC	CHA-C1A-NA	-3.07	124.56	128.83
13	09	1201	CYC	C4D-CHA-C1A	3.07	132.48	128.81
13	W6	202	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
13	A9	1001	CYC	CMC-C2C-C1C	-3.07	105.78	112.40
13	Q4	201	CYC	OC-C1C-C2C	-3.07	123.73	126.17
13	u9	1001	CYC	CMC-C2C-C1C	-3.07	105.78	112.40
13	F8	1001	CYC	CMB-C2B-C1B	3.07	128.00	124.17
13	I9	1001	CYC	CMC-C2C-C1C	-3.07	105.78	112.40
13	X9	1001	CYC	CMC-C2C-C1C	-3.07	105.78	112.40
13	F1	1001	CYC	CMB-C2B-C1B	3.07	128.00	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	T1	202	CYC	CMB-C2B-C1B	3.07	128.00	124.17
13	r9	1001	CYC	CHB-C4A-C3A	3.07	132.79	124.90
13	q9	1001	CYC	CMC-C2C-C1C	-3.07	105.79	112.40
13	R8	1001	CYC	CHA-C1A-NA	-3.07	124.57	128.83
13	U9	1001	CYC	CHB-C4A-C3A	3.07	132.79	124.90
13	W1	1001	CYC	CMB-C2B-C1B	3.07	128.00	124.17
13	T4	202	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
13	GA	1001	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
13	y9	1001	CYC	CMC-C2C-C1C	-3.07	105.79	112.40
13	o8	1001	CYC	CMB-C2B-C1B	3.07	128.00	124.17
13	T1	202	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
13	c9	1001	CYC	CHB-C4A-C3A	3.07	132.79	124.90
13	29	1001	CYC	CHB-C4A-C3A	3.07	132.79	124.90
13	G9	1001	CYC	CMC-C2C-C1C	-3.07	105.79	112.40
13	S6	1001	CYC	C4A-C3A-C2A	-3.07	102.99	106.51
13	o8	1001	CYC	CHA-C1A-NA	-3.07	124.57	128.83
13	f9	1001	CYC	CMC-C2C-C1C	-3.07	105.79	112.40
13	o9	1001	CYC	CMC-C2C-C1C	-3.07	105.79	112.40
13	F6	1001	CYC	CMB-C2B-C1B	3.07	128.00	124.17
13	O9	1001	CYC	CHB-C4A-C3A	3.07	132.79	124.90
13	e9	1001	CYC	CHB-C4A-C3A	3.07	132.79	124.90
13	W5	1001	CYC	C4A-C3A-C2A	-3.07	102.99	106.51
13	T5	201	CYC	CMD-C2D-C3D	-3.07	119.16	124.94
13	S9	1001	CYC	CHB-C4A-C3A	3.07	132.78	124.90
13	L7	201	CYC	CMB-C2B-C1B	3.07	127.99	124.17
13	M8	1001	CYC	CHA-C1A-NA	-3.07	124.58	128.83
13	K9	1001	CYC	CMC-C2C-C1C	-3.07	105.80	112.40
13	S1	1001	CYC	OC-C1C-C2C	-3.06	123.74	126.17
13	F3	1001	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	D6	1001	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	T8	1001	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	19	1205	CYC	CHB-C4A-C3A	3.06	132.78	124.90
13	TA	201	CYC	CMD-C2D-C3D	-3.06	119.17	124.94
13	D1	1001	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	D2	1001	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	W2	202	CYC	OC-C1C-C2C	-3.06	123.74	126.17
13	L6	201	CYC	OC-C1C-C2C	-3.06	123.74	126.17
13	T9	1001	CYC	CMC-C2C-C1C	-3.06	105.80	112.40
13	b9	1001	CYC	CMC-C2C-C1C	-3.06	105.80	112.40
13	z9	1001	CYC	CHB-C4A-C3A	3.06	132.78	124.90
13	UA	1001	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	D8	1001	CYC	CHA-C1A-NA	-3.06	124.58	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Z2	202	CYC	CMB-C2B-C1B	3.06	127.99	124.17
13	l9	1001	CYC	CHB-C4A-C3A	3.06	132.78	124.90
13	X5	201	CYC	C1A-C2A-C3A	-3.06	103.39	106.78
13	B9	1001	CYC	CHB-C4A-C3A	3.06	132.78	124.90
13	I6	201	CYC	C1B-NB-C4B	-3.06	106.77	110.67
13	M5	1001	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	Y8	1001	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	I4	201	CYC	CMD-C2D-C3D	-3.06	119.17	124.94
13	Y4	201	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	Y5	201	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	G7	201	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	M8	1001	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	R8	1001	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
13	C6	201	CYC	OC-C1C-C2C	-3.06	123.74	126.17
13	Q9	201	CYC	CMB-C2B-C1B	3.06	127.99	124.17
13	h8	1001	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
13	L9	1001	CYC	CHB-C4A-C3A	3.06	132.77	124.90
13	R9	1001	CYC	CMC-C2C-C1C	-3.06	105.81	112.40
13	39	1001	CYC	CHB-C4A-C3A	3.06	132.77	124.90
13	T8	1001	CYC	C4D-CHA-C1A	3.06	132.46	128.81
13	f8	1001	CYC	C4D-CHA-C1A	3.06	132.46	128.81
13	J3	1001	CYC	CMB-C2B-C1B	3.06	127.99	124.17
13	G6	202	CYC	CMB-C2B-C1B	3.06	127.99	124.17
13	Y2	201	CYC	OC-C1C-C2C	-3.06	123.74	126.17
13	H2	1001	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
13	OA	1001	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
13	I2	201	CYC	CMD-C2D-C3D	-3.06	119.18	124.94
13	F9	1001	CYC	CHB-C4A-C3A	3.06	132.76	124.90
13	t9	1001	CYC	CHB-C4A-C3A	3.06	132.76	124.90
13	I8	1001	CYC	C4D-CHA-C1A	3.06	132.46	128.81
13	B8	1001	CYC	CHA-C1A-NA	-3.06	124.58	128.83
13	i9	1001	CYC	CMC-C2C-C1C	-3.06	105.81	112.40
13	s9	1001	CYC	CMC-C2C-C1C	-3.06	105.81	112.40
13	PA	203	CYC	OC-C1C-C2C	-3.06	123.74	126.17
13	Z4	202	CYC	CMB-C2B-C1B	3.06	127.98	124.17
13	Z6	202	CYC	CMB-C2B-C1B	3.06	127.98	124.17
13	M8	1001	CYC	C4D-CHA-C1A	3.06	132.46	128.81
13	J2	1001	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
13	F8	1001	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
13	f8	1001	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
13	H1	1001	CYC	CMB-C2B-C1B	3.06	127.98	124.17
13	XA	201	CYC	C1A-C2A-C3A	-3.06	103.40	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	p9	1001	CYC	CHB-C4A-C3A	3.06	132.76	124.90
13	X4	201	CYC	C1A-C2A-C3A	-3.06	103.40	106.78
13	DA	1001	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
13	w9	1001	CYC	CMC-C2C-C1C	-3.05	105.82	112.40
13	U5	1001	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	O6	1001	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	L7	201	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	P8	1001	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	LA	201	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	YA	201	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	I1	201	CYC	CMD-C2D-C3D	-3.05	119.18	124.94
13	I3	201	CYC	CMD-C2D-C3D	-3.05	119.18	124.94
13	R4	1001	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	J6	1001	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	s8	1001	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	b8	1001	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	K8	1001	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	d8	1001	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	J4	1001	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
13	J9	1001	CYC	CHB-C4A-C3A	3.05	132.75	124.90
13	X1	201	CYC	C1A-C2A-C3A	-3.05	103.41	106.78
13	D6	1001	CYC	OC-C1C-C2C	-3.05	123.75	126.17
13	D8	1001	CYC	C4D-CHA-C1A	3.05	132.45	128.81
13	R1	1001	CYC	CMB-C2B-C1B	3.05	127.97	124.17
13	F4	1001	CYC	CMB-C2B-C1B	3.05	127.97	124.17
13	NA	301	CYC	CMD-C2D-C3D	-3.05	119.19	124.94
13	R4	1001	CYC	CMB-C2B-C1B	3.05	127.97	124.17
13	V4	202	CYC	CMB-C2B-C1B	3.05	127.97	124.17
13	J7	1001	CYC	CMB-C2B-C1B	3.05	127.97	124.17
13	Y1	201	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
13	C2	201	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
13	D7	1001	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
13	N5	301	CYC	CMD-C2D-C3D	-3.05	119.20	124.94
13	B4	1001	CYC	OC-C1C-C2C	-3.05	123.75	126.17
13	L5	201	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
13	MA	1001	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
13	V5	201	CYC	CMD-C2D-C3D	-3.05	119.20	124.94
13	W2	202	CYC	CMB-C2B-C1B	3.05	127.97	124.17
13	L2	201	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
13	A7	301	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
13	09	1201	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
13	Y5	201	CYC	OC-C1C-C2C	-3.05	123.75	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	E3	202	CYC	CMB-C2B-C1B	3.05	127.97	124.17
13	D3	1001	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
13	V4	202	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
13	Q2	201	CYC	OC-C1C-C2C	-3.04	123.75	126.17
13	UA	1001	CYC	OC-C1C-C2C	-3.04	123.75	126.17
13	F7	1001	CYC	C4A-C3A-C2A	-3.04	103.01	106.51
13	EA	202	CYC	C4A-C3A-C2A	-3.04	103.01	106.51
13	L3	201	CYC	CMB-C2B-C1B	3.04	127.97	124.17
13	Q6	201	CYC	CMB-C2B-C1B	3.04	127.97	124.17
13	N5	301	CYC	C1B-NB-C4B	-3.04	106.79	110.67
13	VA	201	CYC	CMD-C2D-C3D	-3.04	119.20	124.94
13	o8	1001	CYC	C4A-C3A-C2A	-3.04	103.01	106.51
13	N6	302	CYC	CMB-C2B-C1B	3.04	127.97	124.17
13	I7	201	CYC	CMD-C2D-C3D	-3.04	119.21	124.94
13	L3	201	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	R6	1001	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	q8	1001	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	W6	202	CYC	CMB-C2B-C1B	3.04	127.96	124.17
13	LA	201	CYC	OC-C1C-C2C	-3.04	123.75	126.17
13	R2	1001	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	V2	202	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	J7	1001	CYC	OC-C1C-C2C	-3.04	123.76	126.17
13	F2	1001	CYC	CMB-C2B-C1B	3.04	127.96	124.17
13	I8	1001	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	D2	1001	CYC	CMB-C2B-C1B	3.04	127.96	124.17
13	H4	1001	CYC	OC-C1C-C2C	-3.04	123.76	126.17
13	O2	1001	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	D4	1001	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	W8	1001	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	L4	201	CYC	OC-C1C-C2C	-3.04	123.76	126.17
13	EA	202	CYC	OC-C1C-C2C	-3.04	123.76	126.17
13	R2	1001	CYC	CMB-C2B-C1B	3.04	127.96	124.17
13	G4	202	CYC	CMB-C2B-C1B	3.04	127.96	124.17
13	A3	301	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	L6	201	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	V6	202	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
13	OA	1001	CYC	OC-C1C-C2C	-3.03	123.76	126.17
13	J1	1001	CYC	C4A-C3A-C2A	-3.03	103.02	106.51
13	O4	1001	CYC	CMB-C2B-C1B	3.03	127.95	124.17
13	WA	1001	CYC	OC-C1C-C2C	-3.03	123.76	126.17
13	E5	202	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	SA	1001	CYC	C4A-C3A-C2A	-3.03	103.03	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Q6	201	CYC	OC-C1C-C2C	-3.03	123.76	126.17
13	VA	201	CYC	C1A-C2A-C3A	-3.03	103.43	106.78
13	P5	203	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	PA	203	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	I2	201	CYC	C1B-NB-C4B	-3.03	106.81	110.67
13	SA	1001	CYC	OC-C1C-C2C	-3.03	123.76	126.17
13	L4	201	CYC	CMB-C2B-C1B	3.03	127.95	124.17
13	L5	201	CYC	CMB-C2B-C1B	3.03	127.95	124.17
13	L6	201	CYC	CMB-C2B-C1B	3.03	127.95	124.17
13	G2	202	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	B5	1001	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	V2	202	CYC	CMB-C2B-C1B	3.03	127.95	124.17
13	E7	202	CYC	CMB-C2B-C1B	3.03	127.95	124.17
13	Z1	202	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	Z2	202	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	Z4	202	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	B1	1001	CYC	CMB-C2B-C1B	3.03	127.95	124.17
13	F6	1001	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	D8	1001	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	L1	201	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	N6	302	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	H1	1001	CYC	OC-C1C-C2C	-3.03	123.77	126.17
13	B2	1001	CYC	OC-C1C-C2C	-3.03	123.77	126.17
13	D2	1001	CYC	OC-C1C-C2C	-3.03	123.77	126.17
13	O6	1001	CYC	CMB-C2B-C1B	3.03	127.94	124.17
13	X2	201	CYC	C1A-C2A-C3A	-3.03	103.43	106.78
13	L4	201	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
13	B3	1001	CYC	CMB-C2B-C1B	3.03	127.94	124.17
13	E5	202	CYC	CMB-C2B-C1B	3.03	127.94	124.17
13	GA	1001	CYC	OC-C1C-C2C	-3.02	123.77	126.17
13	P5	203	CYC	OC-C1C-C2C	-3.02	123.77	126.17
13	IA	201	CYC	C1B-NB-C4B	-3.02	106.82	110.67
13	E1	202	CYC	CMB-C2B-C1B	3.02	127.94	124.17
13	L1	201	CYC	CMB-C2B-C1B	3.02	127.94	124.17
13	LA	201	CYC	CMB-C2B-C1B	3.02	127.94	124.17
13	J6	1001	CYC	CMB-C2B-C1B	3.02	127.94	124.17
13	V6	202	CYC	CMB-C2B-C1B	3.02	127.94	124.17
13	B1	1001	CYC	C4A-C3A-C2A	-3.02	103.04	106.51
13	G6	202	CYC	C4A-C3A-C2A	-3.02	103.04	106.51
13	O2	1001	CYC	OC-C1C-C2C	-3.02	123.77	126.17
13	G3	201	CYC	OC-C1C-C2C	-3.02	123.77	126.17
13	U4	1001	CYC	OC-C1C-C2C	-3.02	123.77	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	S6	1001	CYC	OC-C1C-C2C	-3.02	123.77	126.17
13	X6	201	CYC	C1A-C2A-C3A	-3.02	103.44	106.78
13	H2	1001	CYC	CMB-C2B-C1B	3.02	127.94	124.17
13	W4	1001	CYC	CMB-C2B-C1B	3.02	127.94	124.17
13	H7	1001	CYC	CMB-C2B-C1B	3.02	127.94	124.17
13	C1	301	CYC	C4A-C3A-C2A	-3.02	103.04	106.51
13	O5	1001	CYC	OC-C1C-C2C	-3.02	123.77	126.17
13	D4	1001	CYC	CMB-C2B-C1B	3.02	127.94	124.17
13	AA	304	CYC	C1B-NB-C4B	-3.02	106.83	110.67
13	W1	1001	CYC	OC-C1C-C2C	-3.02	123.77	126.17
13	W4	1001	CYC	OC-C1C-C2C	-3.02	123.77	126.17
13	D5	1001	CYC	OC-C1C-C2C	-3.02	123.77	126.17
13	O1	1001	CYC	CMB-C2B-C1B	3.02	127.93	124.17
13	H3	1001	CYC	CMB-C2B-C1B	3.02	127.93	124.17
13	D5	1001	CYC	CMB-C2B-C1B	3.02	127.93	124.17
13	V1	202	CYC	CMB-C2B-C1B	3.02	127.93	124.17
13	L2	201	CYC	CMB-C2B-C1B	3.02	127.93	124.17
13	J2	1001	CYC	CMB-C2B-C1B	3.01	127.93	124.17
13	Y6	201	CYC	OC-C1C-C2C	-3.01	123.78	126.17
13	N2	302	CYC	C4A-C3A-C2A	-3.01	103.05	106.51
13	19	1201	CYC	C4A-C3A-C2A	-3.01	103.05	106.51
13	T1	202	CYC	OC-C1C-C2C	-3.01	123.78	126.17
13	U5	1001	CYC	OC-C1C-C2C	-3.01	123.78	126.17
13	P1	201	CYC	CMB-C2B-C1B	3.01	127.93	124.17
13	AA	301	CYC	C1B-NB-C4B	-3.01	106.84	110.67
13	G7	201	CYC	CMB-C2B-C1B	3.01	127.92	124.17
13	F1	1001	CYC	C4A-C3A-C2A	-3.01	103.05	106.51
13	JA	1001	CYC	OC-C1C-C2C	-3.01	123.78	126.17
13	G3	201	CYC	CMB-C2B-C1B	3.01	127.92	124.17
13	U5	1001	CYC	CMB-C2B-C1B	3.01	127.92	124.17
13	R6	1001	CYC	CMB-C2B-C1B	3.01	127.92	124.17
13	EA	202	CYC	CMB-C2B-C1B	3.01	127.92	124.17
13	A3	301	CYC	OC-C1C-C2C	-3.01	123.78	126.17
13	D6	1001	CYC	CMB-C2B-C1B	3.01	127.92	124.17
13	B7	1001	CYC	CMB-C2B-C1B	3.01	127.92	124.17
13	Z6	202	CYC	C4A-C3A-C2A	-3.01	103.06	106.51
13	F4	1001	CYC	C4A-C3A-C2A	-3.01	103.06	106.51
13	B2	1001	CYC	CMB-C2B-C1B	3.01	127.92	124.17
13	Z1	202	CYC	CMB-C2B-C1B	3.01	127.92	124.17
13	B4	1001	CYC	CMB-C2B-C1B	3.01	127.92	124.17
13	J5	1001	CYC	OC-C1C-C2C	-3.00	123.78	126.17
13	WA	1001	CYC	CMB-C2B-C1B	3.00	127.92	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	w9	1001	CYC	C4A-C3A-C2A	-3.00	103.06	106.51
13	J5	1001	CYC	CMB-C2B-C1B	3.00	127.92	124.17
13	GA	1001	CYC	CMB-C2B-C1B	3.00	127.92	124.17
13	D3	1001	CYC	CMB-C2B-C1B	3.00	127.91	124.17
13	U1	1001	CYC	OC-C1C-C2C	-3.00	123.79	126.17
13	B5	1001	CYC	CMB-C2B-C1B	3.00	127.91	124.17
13	P4	201	CYC	CMB-C2B-C1B	3.00	127.91	124.17
13	B6	1001	CYC	CMB-C2B-C1B	3.00	127.91	124.17
13	L2	201	CYC	OC-C1C-C2C	-3.00	123.79	126.17
13	L3	201	CYC	OC-C1C-C2C	-3.00	123.79	126.17
13	W5	1001	CYC	CMB-C2B-C1B	3.00	127.91	124.17
13	J3	1001	CYC	OC-C1C-C2C	-3.00	123.79	126.17
13	L7	201	CYC	OC-C1C-C2C	-3.00	123.79	126.17
13	PA	203	CYC	CMB-C2B-C1B	3.00	127.91	124.17
13	f9	1001	CYC	C4A-C3A-C2A	-3.00	103.07	106.51
13	o9	1001	CYC	C4A-C3A-C2A	-3.00	103.07	106.51
13	H4	1001	CYC	CMB-C2B-C1B	3.00	127.91	124.17
13	G4	202	CYC	C4A-C3A-C2A	-3.00	103.07	106.51
13	X9	1001	CYC	C4A-C3A-C2A	-3.00	103.07	106.51
13	u9	1001	CYC	C4A-C3A-C2A	-3.00	103.07	106.51
13	V5	201	CYC	C1A-C2A-C3A	-2.99	103.47	106.78
13	U6	202	CYC	OC-C1C-C2C	-2.99	123.79	126.17
13	k9	1001	CYC	C4A-C3A-C2A	-2.99	103.07	106.51
13	Q2	201	CYC	CMB-C2B-C1B	2.99	127.91	124.17
13	A5	301	CYC	C1B-NB-C4B	-2.99	106.86	110.67
13	Y4	201	CYC	OC-C1C-C2C	-2.99	123.79	126.17
13	I5	201	CYC	C1B-NB-C4B	-2.99	106.86	110.67
13	U2	202	CYC	OC-C1C-C2C	-2.99	123.80	126.17
13	DA	1001	CYC	CMB-C2B-C1B	2.99	127.90	124.17
13	O2	1001	CYC	CMB-C2B-C1B	2.99	127.90	124.17
13	G1	202	CYC	C4A-C3A-C2A	-2.99	103.08	106.51
13	E4	201	CYC	C1B-NB-C4B	-2.99	106.86	110.67
13	S5	1001	CYC	OC-C1C-C2C	-2.99	123.80	126.17
13	Z5	201	CYC	C1A-C2A-C3A	-2.99	103.48	106.78
13	I7	201	CYC	C1B-NB-C4B	-2.99	106.86	110.67
13	g9	1001	CYC	C4A-C3A-C2A	-2.99	103.08	106.51
13	D1	1001	CYC	CMB-C2B-C1B	2.99	127.89	124.17
13	Y2	201	CYC	CMB-C2B-C1B	2.99	127.89	124.17
13	ZA	201	CYC	C1A-C2A-C3A	-2.99	103.48	106.78
13	J1	1001	CYC	CMB-C2B-C1B	2.99	127.89	124.17
13	A5	304	CYC	C1B-NB-C4B	-2.98	106.87	110.67
13	Q1	201	CYC	CMB-C2B-C1B	2.98	127.89	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	E2	202	CYC	CMB-C2B-C1B	2.98	127.89	124.17
13	B4	1001	CYC	C4A-C3A-C2A	-2.98	103.08	106.51
13	PA	202	CYC	CMB-C2B-C1B	2.98	127.89	124.17
13	A9	1001	CYC	C4A-C3A-C2A	-2.98	103.08	106.51
13	Q9	201	CYC	CBD-CAD-C3D	-2.98	107.53	112.62
13	E1	201	CYC	C1B-NB-C4B	-2.98	106.87	110.67
13	d9	1001	CYC	C4A-C3A-C2A	-2.98	103.08	106.51
13	A5	303	CYC	C1A-C2A-C3A	-2.98	103.48	106.78
13	AA	303	CYC	C1A-C2A-C3A	-2.98	103.48	106.78
13	E4	202	CYC	CMB-C2B-C1B	2.98	127.89	124.17
13	Q4	201	CYC	CMB-C2B-C1B	2.98	127.89	124.17
13	P5	203	CYC	CMB-C2B-C1B	2.98	127.89	124.17
13	D7	1001	CYC	CMB-C2B-C1B	2.98	127.89	124.17
13	R9	1001	CYC	C4A-C3A-C2A	-2.98	103.09	106.51
13	s9	1001	CYC	C4A-C3A-C2A	-2.98	103.09	106.51
13	TA	201	CYC	C1A-C2A-C3A	-2.98	103.49	106.78
13	H6	1001	CYC	OC-C1C-C2C	-2.98	123.81	126.17
13	E3	201	CYC	C1B-NB-C4B	-2.98	106.88	110.67
13	R1	1001	CYC	C4A-C3A-C2A	-2.98	103.09	106.51
13	Q2	201	CYC	C4A-C3A-C2A	-2.98	103.09	106.51
13	UA	1001	CYC	CMB-C2B-C1B	2.98	127.88	124.17
13	B6	1001	CYC	OC-C1C-C2C	-2.98	123.81	126.17
13	H7	1001	CYC	OC-C1C-C2C	-2.98	123.81	126.17
13	B5	1001	CYC	OC-C1C-C2C	-2.97	123.81	126.17
13	YA	201	CYC	OC-C1C-C2C	-2.97	123.81	126.17
13	Q6	201	CYC	C4A-C3A-C2A	-2.97	103.09	106.51
13	L5	201	CYC	OC-C1C-C2C	-2.97	123.81	126.17
13	E6	202	CYC	CMB-C2B-C1B	2.97	127.88	124.17
13	SA	1001	CYC	CMB-C2B-C1B	2.97	127.88	124.17
13	E6	201	CYC	C1B-NB-C4B	-2.97	106.89	110.67
13	T5	201	CYC	C1B-NB-C4B	-2.97	106.89	110.67
13	W2	201	CYC	CMB-C2B-C1B	2.97	127.88	124.17
13	T4	202	CYC	OC-C1C-C2C	-2.97	123.81	126.17
13	W5	1001	CYC	OC-C1C-C2C	-2.97	123.81	126.17
13	H3	1001	CYC	OC-C1C-C2C	-2.97	123.81	126.17
13	YA	201	CYC	CMB-C2B-C1B	2.97	127.87	124.17
13	f8	1001	CYC	C2C-C1C-NC	2.97	110.83	108.27
13	O4	1001	CYC	OC-C1C-C2C	-2.97	123.81	126.17
13	G1	202	CYC	CMB-C2B-C1B	2.97	127.87	124.17
13	E2	201	CYC	C1B-NB-C4B	-2.97	106.89	110.67
13	M5	1001	CYC	CMB-C2B-C1B	2.97	127.87	124.17
13	Z5	201	CYC	CMD-C2D-C3D	-2.96	119.35	124.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Q4	201	CYC	C4A-C3A-C2A	-2.96	103.10	106.51
13	T9	1001	CYC	C4A-C3A-C2A	-2.96	103.10	106.51
13	ZA	201	CYC	CMD-C2D-C3D	-2.96	119.35	124.94
13	E7	201	CYC	C1B-NB-C4B	-2.96	106.89	110.67
13	B7	1001	CYC	C4A-C3A-C2A	-2.96	103.11	106.51
13	q9	1001	CYC	C4A-C3A-C2A	-2.96	103.11	106.51
13	I1	201	CYC	C1B-NB-C4B	-2.96	106.90	110.67
13	A7	301	CYC	OC-C1C-C2C	-2.96	123.82	126.17
13	O5	1001	CYC	CMB-C2B-C1B	2.96	127.87	124.17
13	P5	202	CYC	CMB-C2B-C1B	2.96	127.87	124.17
13	H6	1001	CYC	CMB-C2B-C1B	2.96	127.87	124.17
13	P4	202	CYC	CMB-C2B-C1B	2.96	127.86	124.17
13	B3	1001	CYC	C4A-C3A-C2A	-2.96	103.11	106.51
13	C1	301	CYC	CMB-C2B-C1B	2.96	127.86	124.17
13	J4	1001	CYC	CMB-C2B-C1B	2.96	127.86	124.17
13	P9	1001	CYC	C4A-C3A-C2A	-2.96	103.11	106.51
13	y9	1001	CYC	C4A-C3A-C2A	-2.96	103.11	106.51
13	M5	1001	CYC	OC-C1C-C2C	-2.96	123.82	126.17
13	E9	1001	CYC	C4A-C3A-C2A	-2.96	103.11	106.51
13	Y5	201	CYC	CMB-C2B-C1B	2.96	127.86	124.17
13	I3	201	CYC	C1B-NB-C4B	-2.96	106.91	110.67
13	T5	201	CYC	C1A-C2A-C3A	-2.96	103.51	106.78
13	U6	202	CYC	CMB-C2B-C1B	2.95	127.86	124.17
13	W6	201	CYC	CMB-C2B-C1B	2.95	127.86	124.17
13	DA	1001	CYC	OC-C1C-C2C	-2.95	123.82	126.17
13	I9	1001	CYC	C4A-C3A-C2A	-2.95	103.12	106.51
13	b9	1001	CYC	C4A-C3A-C2A	-2.95	103.12	106.51
13	JA	1001	CYC	CMB-C2B-C1B	2.95	127.85	124.17
13	G1	202	CYC	OC-C1C-C2C	-2.95	123.83	126.17
13	Y1	201	CYC	OC-C1C-C2C	-2.95	123.83	126.17
13	EA	201	CYC	CMB-C2B-C1B	2.95	127.85	124.17
13	Q1	201	CYC	C4A-C3A-C2A	-2.95	103.12	106.51
13	Y1	201	CYC	CMB-C2B-C1B	2.95	127.85	124.17
13	T8	1001	CYC	C2C-C1C-NC	2.95	110.82	108.27
13	C4	301	CYC	CMB-C2B-C1B	2.95	127.85	124.17
13	U4	1001	CYC	CMB-C2B-C1B	2.95	127.85	124.17
13	AA	302	CYC	C1B-NB-C4B	-2.95	106.92	110.67
13	I8	1001	CYC	C2C-C1C-NC	2.95	110.81	108.27
13	G9	1001	CYC	C4A-C3A-C2A	-2.95	103.12	106.51
13	E5	202	CYC	OC-C1C-C2C	-2.95	123.83	126.17
13	K9	1001	CYC	C4A-C3A-C2A	-2.95	103.13	106.51
13	MA	1001	CYC	CMB-C2B-C1B	2.95	127.84	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	S2	1001	CYC	OC-C1C-C2C	-2.94	123.83	126.17
13	G4	202	CYC	OC-C1C-C2C	-2.94	123.83	126.17
13	Z9	1001	CYC	C4A-C3A-C2A	-2.94	103.13	106.51
13	S5	1001	CYC	CMB-C2B-C1B	2.94	127.84	124.17
13	B8	1001	CYC	C2C-C1C-NC	2.94	110.81	108.27
13	O6	1001	CYC	OC-C1C-C2C	-2.94	123.83	126.17
13	ZA	201	CYC	C1B-NB-C4B	-2.94	106.92	110.67
13	U2	202	CYC	CMB-C2B-C1B	2.94	127.84	124.17
13	G7	201	CYC	OC-C1C-C2C	-2.94	123.84	126.17
13	A5	302	CYC	C1B-NB-C4B	-2.94	106.93	110.67
13	T6	201	CYC	CMB-C2B-C1B	2.94	127.83	124.17
13	D2	1001	CYC	C2C-C1C-NC	2.94	110.81	108.27
13	s8	1001	CYC	C2C-C1C-NC	2.94	110.81	108.27
13	19	1202	CYC	C2C-C1C-NC	2.94	110.81	108.27
13	N9	1001	CYC	C4A-C3A-C2A	-2.94	103.14	106.51
13	i9	1001	CYC	C4A-C3A-C2A	-2.94	103.14	106.51
13	09	1201	CYC	C2C-C1C-NC	2.93	110.80	108.27
13	OA	1001	CYC	CMB-C2B-C1B	2.93	127.83	124.17
13	K2	201	CYC	CMB-C2B-C1B	2.93	127.83	124.17
13	V9	201	CYC	OC-C1C-C2C	-2.93	123.84	126.17
13	D8	1001	CYC	C2C-C1C-NC	2.93	110.80	108.27
13	E5	201	CYC	CMB-C2B-C1B	2.93	127.83	124.17
13	T5	202	CYC	CMB-C2B-C1B	2.93	127.83	124.17
13	Y6	201	CYC	CMB-C2B-C1B	2.93	127.83	124.17
13	PA	201	CYC	CMB-C2B-C1B	2.93	127.83	124.17
13	Z5	201	CYC	C1B-NB-C4B	-2.93	106.94	110.67
13	m9	201	CYC	CHA-C1A-NA	-2.93	124.76	128.83
13	C2	201	CYC	CMB-C2B-C1B	2.93	127.83	124.17
13	C9	1001	CYC	C4A-C3A-C2A	-2.93	103.14	106.51
13	MA	1001	CYC	OC-C1C-C2C	-2.93	123.84	126.17
13	k8	1001	CYC	C2C-C1C-NC	2.93	110.80	108.27
13	Q9	201	CYC	C4A-C3A-C2A	-2.93	103.15	106.51
13	O1	1001	CYC	OC-C1C-C2C	-2.93	123.85	126.17
13	P1	202	CYC	CMB-C2B-C1B	2.93	127.82	124.17
13	I4	201	CYC	C1B-NB-C4B	-2.92	106.95	110.67
13	H4	1001	CYC	C2C-C1C-NC	2.92	110.79	108.27
13	W8	1001	CYC	C2C-C1C-NC	2.92	110.79	108.27
13	h8	1001	CYC	C2C-C1C-NC	2.92	110.79	108.27
13	N6	302	CYC	OC-C1C-C2C	-2.92	123.85	126.17
13	U1	1001	CYC	CMB-C2B-C1B	2.92	127.81	124.17
13	TA	201	CYC	C1B-NB-C4B	-2.92	106.95	110.67
13	TA	202	CYC	CMB-C2B-C1B	2.92	127.81	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	l9	1001	CYC	C2A-C1A-NA	2.92	114.29	110.05
13	D6	1001	CYC	C2C-C1C-NC	2.92	110.79	108.27
13	T2	201	CYC	CMB-C2B-C1B	2.92	127.81	124.17
13	Y1	201	CYC	C2C-C1C-NC	2.92	110.79	108.27
13	o8	1001	CYC	C2C-C1C-NC	2.92	110.79	108.27
13	K3	201	CYC	CMB-C2B-C1B	2.92	127.81	124.17
13	D1	1001	CYC	OC-C1C-C2C	-2.92	123.86	126.17
13	H2	1001	CYC	OC-C1C-C2C	-2.92	123.86	126.17
13	B6	1001	CYC	C4A-C3A-C2A	-2.91	103.16	106.51
13	G3	201	CYC	C2C-C1C-NC	2.91	110.78	108.27
13	P5	201	CYC	CMB-C2B-C1B	2.91	127.80	124.17
13	S4	1001	CYC	CMB-C2B-C1B	2.91	127.80	124.17
13	r9	1001	CYC	C2A-C1A-NA	2.91	114.28	110.05
13	D1	1001	CYC	C2C-C1C-NC	2.91	110.78	108.27
13	P5	203	CYC	C2C-C1C-NC	2.91	110.78	108.27
13	K8	1001	CYC	C2C-C1C-NC	2.91	110.78	108.27
13	19	1201	CYC	C2C-C1C-NC	2.91	110.78	108.27
13	D4	1001	CYC	OC-C1C-C2C	-2.91	123.86	126.17
13	P2	201	CYC	CMB-C2B-C1B	2.91	127.80	124.17
13	J1	1001	CYC	C2C-C1C-NC	2.91	110.78	108.27
13	R2	1001	CYC	C2C-C1C-NC	2.91	110.78	108.27
13	F9	1001	CYC	C2A-C1A-NA	2.91	114.28	110.05
13	A3	301	CYC	CMB-C2B-C1B	2.91	127.79	124.17
13	G7	201	CYC	C2C-C1C-NC	2.90	110.78	108.27
13	K7	201	CYC	CMB-C2B-C1B	2.90	127.79	124.17
13	Z1	202	CYC	OC-C1C-C2C	-2.90	123.86	126.17
13	N2	302	CYC	OC-C1C-C2C	-2.90	123.86	126.17
13	B2	1001	CYC	C4A-C3A-C2A	-2.90	103.17	106.51
13	V6	201	CYC	CHA-C1A-NA	-2.90	124.80	128.83
13	S9	1001	CYC	C2A-C1A-NA	2.90	114.27	110.05
13	c9	1001	CYC	C2A-C1A-NA	2.90	114.27	110.05
13	Y4	201	CYC	CMB-C2B-C1B	2.90	127.79	124.17
13	R4	1001	CYC	C2C-C1C-NC	2.90	110.77	108.27
13	S6	1001	CYC	C2C-C1C-NC	2.90	110.77	108.27
13	F8	1001	CYC	C2C-C1C-NC	2.90	110.77	108.27
13	M3	201	CYC	CMB-C2B-C1B	2.90	127.79	124.17
13	V9	201	CYC	CHA-C1A-NA	-2.90	124.80	128.83
13	W5	1001	CYC	C2C-C1C-NC	2.90	110.77	108.27
13	J6	1001	CYC	C2C-C1C-NC	2.90	110.77	108.27
13	D4	1001	CYC	C2C-C1C-NC	2.90	110.77	108.27
13	U5	1001	CYC	C2C-C1C-NC	2.90	110.77	108.27
13	J2	1001	CYC	C2C-C1C-NC	2.90	110.77	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	R6	1001	CYC	C2C-C1C-NC	2.90	110.77	108.27
13	R2	1001	CYC	OC-C1C-C2C	-2.90	123.87	126.17
13	V1	202	CYC	C2C-C1C-NC	2.90	110.77	108.27
13	G6	201	CYC	CMB-C2B-C1B	2.89	127.78	124.17
13	A3	301	CYC	CAA-C2A-C1A	2.89	130.13	125.01
13	V2	202	CYC	OC-C1C-C2C	-2.89	123.87	126.17
13	F4	1001	CYC	OC-C1C-C2C	-2.89	123.87	126.17
13	V4	202	CYC	C2C-C1C-NC	2.89	110.77	108.27
13	m9	201	CYC	OC-C1C-C2C	-2.89	123.87	126.17
13	A7	301	CYC	CAA-C2A-C1A	2.89	130.13	125.01
13	R1	1001	CYC	CAA-C2A-C1A	2.89	130.12	125.01
13	H1	1001	CYC	C2C-C1C-NC	2.89	110.77	108.27
13	19	1205	CYC	C2A-C1A-NA	2.89	114.25	110.05
13	S2	1001	CYC	CMB-C2B-C1B	2.89	127.78	124.17
13	Z4	202	CYC	OC-C1C-C2C	-2.89	123.88	126.17
13	G6	202	CYC	OC-C1C-C2C	-2.89	123.88	126.17
13	O9	1001	CYC	C2A-C1A-NA	2.89	114.25	110.05
13	K6	201	CYC	CMB-C2B-C1B	2.89	127.78	124.17
13	G7	202	CYC	CMB-C2B-C1B	2.89	127.78	124.17
13	29	1001	CYC	C2A-C1A-NA	2.89	114.25	110.05
13	U9	1001	CYC	C2A-C1A-NA	2.89	114.25	110.05
13	V2	201	CYC	CHA-C1A-NA	-2.89	124.82	128.83
13	N6	302	CYC	CAA-C2A-C1A	2.89	130.12	125.01
13	D5	1001	CYC	C2C-C1C-NC	2.89	110.76	108.27
13	19	1204	CYC	C2A-C1A-NA	2.89	114.25	110.05
13	S4	1001	CYC	C2C-C1C-NC	2.89	110.76	108.27
13	d8	1001	CYC	C2C-C1C-NC	2.89	110.76	108.27
13	S1	1001	CYC	CMB-C2B-C1B	2.89	127.77	124.17
13	DA	1001	CYC	C2C-C1C-NC	2.88	110.76	108.27
13	09	1203	CYC	C2A-C1A-NA	2.88	114.25	110.05
13	J9	1001	CYC	C2A-C1A-NA	2.88	114.25	110.05
13	Y4	201	CYC	C2C-C1C-NC	2.88	110.76	108.27
13	O5	1001	CYC	C2C-C1C-NC	2.88	110.76	108.27
13	T1	202	CYC	CAA-C2A-C1A	2.88	130.11	125.01
13	C6	201	CYC	CMB-C2B-C1B	2.88	127.77	124.17
13	MA	1003	CYC	CMB-C2B-C1B	2.88	127.77	124.17
13	G3	202	CYC	CMB-C2B-C1B	2.88	127.77	124.17
13	B7	1001	CYC	OC-C1C-C2C	-2.88	123.88	126.17
13	D9	1001	CYC	C2A-C1A-NA	2.88	114.24	110.05
13	I1	202	CYC	CMB-C2B-C1B	2.88	127.77	124.17
13	O6	1001	CYC	C2C-C1C-NC	2.88	110.76	108.27
13	G4	201	CYC	CMB-C2B-C1B	2.88	127.76	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	J4	1001	CYC	C2C-C1C-NC	2.88	110.76	108.27
13	W2	202	CYC	CAA-C2A-C1A	2.88	130.10	125.01
13	U2	201	CYC	CMB-C2B-C1B	2.88	127.76	124.17
13	H9	1001	CYC	C2A-C1A-NA	2.88	114.24	110.05
13	Z6	202	CYC	OC-C1C-C2C	-2.88	123.88	126.17
13	K3	202	CYC	CMB-C2B-C1B	2.88	127.76	124.17
13	A7	301	CYC	CMB-C2B-C1B	2.88	127.76	124.17
13	P8	1001	CYC	C2C-C1C-NC	2.88	110.75	108.27
13	YA	201	CYC	C2C-C1C-NC	2.88	110.75	108.27
13	C6	201	CYC	CAA-C2A-C1A	2.88	130.10	125.01
13	F7	1001	CYC	OC-C1C-C2C	-2.88	123.89	126.17
13	I7	201	CYC	CBA-CAA-C2A	2.88	120.62	112.63
13	G2	201	CYC	CMB-C2B-C1B	2.88	127.76	124.17
13	z9	1001	CYC	C2A-C1A-NA	2.88	114.23	110.05
13	Q9	201	CYC	C2C-C1C-NC	2.88	110.75	108.27
13	PA	203	CYC	C2C-C1C-NC	2.88	110.75	108.27
13	Y8	1001	CYC	C2C-C1C-NC	2.88	110.75	108.27
13	W6	202	CYC	CAA-C2A-C1A	2.88	130.09	125.01
13	t9	1001	CYC	C2A-C1A-NA	2.87	114.23	110.05
13	EA	202	CYC	C2C-C1C-NC	2.87	110.75	108.27
13	v9	1001	CYC	C2A-C1A-NA	2.87	114.23	110.05
13	P6	201	CYC	CMB-C2B-C1B	2.87	127.75	124.17
13	X2	201	CYC	CBA-CAA-C2A	2.87	120.61	112.63
13	Q1	202	CYC	CMB-C2B-C1B	2.87	127.75	124.17
13	S1	1001	CYC	C2C-C1C-NC	2.87	110.75	108.27
13	M8	1001	CYC	C2C-C1C-NC	2.87	110.75	108.27
13	U6	201	CYC	CMB-C2B-C1B	2.87	127.75	124.17
13	A5	303	CYC	C1B-NB-C4B	-2.87	107.01	110.67
13	I3	201	CYC	CBA-CAA-C2A	2.87	120.60	112.63
13	e9	1001	CYC	C2A-C1A-NA	2.87	114.22	110.05
13	R4	1001	CYC	OC-C1C-C2C	-2.87	123.89	126.17
13	J7	1001	CYC	C2C-C1C-NC	2.87	110.75	108.27
13	WA	1001	CYC	C2C-C1C-NC	2.87	110.75	108.27
13	x9	1001	CYC	C2A-C1A-NA	2.87	114.22	110.05
13	p9	1001	CYC	C2A-C1A-NA	2.87	114.22	110.05
13	R4	1001	CYC	CAA-C2A-C1A	2.87	130.08	125.01
13	VA	202	CYC	CHA-C1A-NA	-2.87	124.85	128.83
13	L9	1001	CYC	C2A-C1A-NA	2.87	114.22	110.05
13	I2	201	CYC	CBA-CAA-C2A	2.87	120.59	112.63
13	S6	1001	CYC	CMB-C2B-C1B	2.87	127.75	124.17
13	K7	202	CYC	CMB-C2B-C1B	2.87	127.75	124.17
13	B3	1001	CYC	C2C-C1C-NC	2.87	110.74	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	V9	201	CYC	C2C-C1C-NC	2.87	110.74	108.27
13	N2	302	CYC	CAA-C2A-C1A	2.87	130.08	125.01
13	V5	202	CYC	CHA-C1A-NA	-2.87	124.85	128.83
13	M7	201	CYC	CMB-C2B-C1B	2.87	127.74	124.17
13	V4	202	CYC	OC-C1C-C2C	-2.87	123.89	126.17
13	N2	302	CYC	C2C-C1C-NC	2.86	110.74	108.27
13	SA	1001	CYC	C2C-C1C-NC	2.86	110.74	108.27
13	Z6	201	CYC	CMB-C2B-C1B	2.86	127.74	124.17
13	UA	1001	CYC	C2C-C1C-NC	2.86	110.74	108.27
13	T4	202	CYC	CAA-C2A-C1A	2.86	130.07	125.01
13	G2	202	CYC	OC-C1C-C2C	-2.86	123.90	126.17
13	Z2	202	CYC	OC-C1C-C2C	-2.86	123.90	126.17
13	W4	1001	CYC	CAA-C2A-C1A	2.86	130.07	125.01
13	LA	201	CYC	C2C-C1C-NC	2.86	110.74	108.27
13	B3	1001	CYC	OC-C1C-C2C	-2.86	123.90	126.17
13	G1	202	CYC	C2C-C1C-NC	2.86	110.74	108.27
13	W1	1001	CYC	CAA-C2A-C1A	2.86	130.06	125.01
13	G1	201	CYC	CMB-C2B-C1B	2.86	127.73	124.17
13	C2	201	CYC	CAA-C2A-C1A	2.86	130.06	125.01
13	Z6	202	CYC	CAA-C2A-C1A	2.86	130.06	125.01
13	X6	201	CYC	CBA-CAA-C2A	2.86	120.56	112.63
13	G6	202	CYC	C2C-C1C-NC	2.86	110.73	108.27
13	B9	1001	CYC	C2A-C1A-NA	2.86	114.20	110.05
13	19	1203	CYC	C2A-C1A-NA	2.85	114.20	110.05
13	N6	302	CYC	C2C-C1C-NC	2.85	110.73	108.27
13	WA	1001	CYC	CAA-C2A-C1A	2.85	130.06	125.01
13	T1	201	CYC	CMB-C2B-C1B	2.85	127.73	124.17
13	T4	201	CYC	CMB-C2B-C1B	2.85	127.73	124.17
13	b8	1001	CYC	C2C-C1C-NC	2.85	110.73	108.27
13	U2	202	CYC	CAA-C2A-C1A	2.85	130.06	125.01
13	I1	201	CYC	CBA-CAA-C2A	2.85	120.55	112.63
13	V4	201	CYC	CHA-C1A-NA	-2.85	124.87	128.83
13	S2	1001	CYC	C2C-C1C-NC	2.85	110.73	108.27
13	Y6	201	CYC	C2C-C1C-NC	2.85	110.73	108.27
13	I4	201	CYC	CBA-CAA-C2A	2.85	120.55	112.63
13	39	1001	CYC	C2A-C1A-NA	2.85	114.20	110.05
13	G3	201	CYC	CAA-C2A-C1A	2.85	130.05	125.01
13	V6	202	CYC	C2C-C1C-NC	2.85	110.73	108.27
13	I6	201	CYC	CBA-CAA-C2A	2.85	120.55	112.63
13	L5	201	CYC	CAA-C2A-C1A	2.85	130.05	125.01
13	C1	301	CYC	C2C-C1C-NC	2.85	110.73	108.27
13	V1	202	CYC	OC-C1C-C2C	-2.85	123.91	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	V6	202	CYC	OC-C1C-C2C	-2.85	123.91	126.17
13	AA	303	CYC	C1B-NB-C4B	-2.85	107.04	110.67
13	M5	1001	CYC	C2C-C1C-NC	2.85	110.73	108.27
13	R8	1001	CYC	C2C-C1C-NC	2.85	110.73	108.27
13	C7	201	CYC	CMB-C2B-C1B	2.85	127.72	124.17
13	U4	1001	CYC	C2C-C1C-NC	2.85	110.73	108.27
13	K4	201	CYC	CMB-C2B-C1B	2.85	127.72	124.17
13	J2	1001	CYC	CAA-C2A-C1A	2.84	130.04	125.01
13	W4	1001	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	B7	1001	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	q8	1001	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	G5	201	CYC	CMB-C2B-C1B	2.84	127.72	124.17
13	Z2	202	CYC	CAA-C2A-C1A	2.84	130.04	125.01
13	j9	1001	CYC	C2A-C1A-NA	2.84	114.19	110.05
13	LA	201	CYC	CAA-C2A-C1A	2.84	130.04	125.01
13	U1	1001	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	Q4	202	CYC	CMB-C2B-C1B	2.84	127.72	124.17
13	F1	1001	CYC	OC-C1C-C2C	-2.84	123.91	126.17
13	G4	202	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	S1	1001	CYC	CAA-C2A-C1A	2.84	130.04	125.01
13	K1	201	CYC	CMB-C2B-C1B	2.84	127.71	124.17
13	C3	201	CYC	CMB-C2B-C1B	2.84	127.71	124.17
13	S4	1001	CYC	CAA-C2A-C1A	2.84	130.03	125.01
13	JA	1001	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	K1	202	CYC	CMB-C2B-C1B	2.84	127.71	124.17
13	R5	201	CYC	CMB-C2B-C1B	2.84	127.71	124.17
13	Z4	202	CYC	CAA-C2A-C1A	2.84	130.03	125.01
13	V6	202	CYC	CAA-C2A-C1A	2.84	130.03	125.01
13	G6	202	CYC	CAA-C2A-C1A	2.84	130.03	125.01
13	I2	202	CYC	CMB-C2B-C1B	2.84	127.71	124.17
13	B2	1001	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	S5	1001	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	D7	1001	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	X4	201	CYC	CBA-CAA-C2A	2.84	120.51	112.63
13	UA	1001	CYC	CAA-C2A-C1A	2.84	130.03	125.01
13	L5	201	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	C4	301	CYC	CAA-C2A-C1A	2.84	130.03	125.01
13	F6	1001	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	MA	1001	CYC	C2C-C1C-NC	2.84	110.72	108.27
13	J4	1001	CYC	CAA-C2A-C1A	2.83	130.02	125.01
13	W5	1001	CYC	CAA-C2A-C1A	2.83	130.02	125.01
13	C1	301	CYC	CAA-C2A-C1A	2.83	130.02	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	J1	1001	CYC	CAA-C2A-C1A	2.83	130.02	125.01
13	GA	1001	CYC	C2C-C1C-NC	2.83	110.72	108.27
13	Q1	201	CYC	C2C-C1C-NC	2.83	110.72	108.27
13	B5	1001	CYC	C2C-C1C-NC	2.83	110.72	108.27
13	W6	202	CYC	C2C-C1C-NC	2.83	110.72	108.27
13	F7	1001	CYC	C2C-C1C-NC	2.83	110.71	108.27
13	RA	201	CYC	CMB-C2B-C1B	2.83	127.70	124.17
13	EA	202	CYC	CAA-C2A-C1A	2.83	130.02	125.01
13	H6	1001	CYC	C2C-C1C-NC	2.83	110.71	108.27
13	L4	201	CYC	CAA-C2A-C1A	2.83	130.01	125.01
13	W2	202	CYC	C2C-C1C-NC	2.83	110.71	108.27
13	S2	1001	CYC	CAA-C2A-C1A	2.83	130.01	125.01
13	Y2	201	CYC	CAA-C2A-C1A	2.83	130.01	125.01
13	M5	1001	CYC	CAA-C2A-C1A	2.83	130.01	125.01
13	M5	1003	CYC	CMB-C2B-C1B	2.83	127.70	124.17
13	Q6	201	CYC	CAA-C2A-C1A	2.83	130.01	125.01
13	R1	1001	CYC	C2C-C1C-NC	2.83	110.71	108.27
13	R1	1001	CYC	OC-C1C-C2C	-2.83	123.92	126.17
13	J6	1001	CYC	CAA-C2A-C1A	2.83	130.01	125.01
13	Y2	201	CYC	C2C-C1C-NC	2.83	110.71	108.27
13	O4	1001	CYC	C2C-C1C-NC	2.83	110.71	108.27
13	C4	302	CYC	CMB-C2B-C1B	2.83	127.70	124.17
13	M6	201	CYC	CMB-C2B-C1B	2.83	127.70	124.17
13	I5	201	CYC	CBA-CAA-C2A	2.83	120.48	112.63
13	IA	201	CYC	CBA-CAA-C2A	2.83	120.48	112.63
13	JA	1001	CYC	CAA-C2A-C1A	2.83	130.01	125.01
13	I6	202	CYC	CMB-C2B-C1B	2.83	127.69	124.17
13	R6	1001	CYC	OC-C1C-C2C	-2.82	123.93	126.17
13	O5	1001	CYC	CAA-C2A-C1A	2.82	130.00	125.01
13	O2	1001	CYC	C2C-C1C-NC	2.82	110.71	108.27
13	C4	301	CYC	C2C-C1C-NC	2.82	110.71	108.27
13	Q2	201	CYC	CAA-C2A-C1A	2.82	130.00	125.01
13	Y6	201	CYC	CAA-C2A-C1A	2.82	130.00	125.01
13	L2	201	CYC	CAA-C2A-C1A	2.82	130.00	125.01
13	E5	202	CYC	CAA-C2A-C1A	2.82	130.00	125.01
13	G1	202	CYC	CAA-C2A-C1A	2.82	130.00	125.01
13	V1	202	CYC	CAA-C2A-C1A	2.82	130.00	125.01
13	V1	201	CYC	CHA-C1A-NA	-2.82	124.91	128.83
13	G7	201	CYC	CAA-C2A-C1A	2.82	130.00	125.01
13	G2	202	CYC	C2C-C1C-NC	2.82	110.70	108.27
13	V4	202	CYC	CAA-C2A-C1A	2.82	130.00	125.01
13	B5	1001	CYC	CAA-C2A-C1A	2.82	130.00	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	U6	202	CYC	CAA-C2A-C1A	2.82	130.00	125.01
13	YA	201	CYC	CAA-C2A-C1A	2.82	130.00	125.01
13	B1	1001	CYC	C2C-C1C-NC	2.82	110.70	108.27
13	J3	1001	CYC	C2C-C1C-NC	2.82	110.70	108.27
13	SA	1001	CYC	CAA-C2A-C1A	2.82	129.99	125.01
13	I4	202	CYC	CMB-C2B-C1B	2.82	127.68	124.17
13	09	1202	CYC	C2A-C1A-NA	2.82	114.15	110.05
13	L3	201	CYC	CAA-C2A-C1A	2.82	129.99	125.01
13	L7	201	CYC	CAA-C2A-C1A	2.82	129.99	125.01
13	J5	1001	CYC	C2C-C1C-NC	2.82	110.70	108.27
13	X5	201	CYC	CBA-CAA-C2A	2.81	120.45	112.63
13	XA	201	CYC	CBA-CAA-C2A	2.81	120.45	112.63
13	F3	1001	CYC	OC-C1C-C2C	-2.81	123.94	126.17
13	PA	203	CYC	CAA-C2A-C1A	2.81	129.99	125.01
13	H2	1001	CYC	C2C-C1C-NC	2.81	110.70	108.27
13	Z4	202	CYC	C2C-C1C-NC	2.81	110.70	108.27
13	U5	1001	CYC	CAA-C2A-C1A	2.81	129.99	125.01
13	Y5	201	CYC	C2C-C1C-NC	2.81	110.70	108.27
13	V2	202	CYC	CAA-C2A-C1A	2.81	129.98	125.01
13	V1	201	CYC	CMB-C2B-C1B	2.81	127.68	124.17
13	B6	1001	CYC	C2C-C1C-NC	2.81	110.70	108.27
13	U4	1001	CYC	CAA-C2A-C1A	2.81	129.98	125.01
13	K1	201	CYC	CHA-C1A-NA	-2.81	124.93	128.83
13	L1	201	CYC	C2C-C1C-NC	2.81	110.70	108.27
13	Y1	201	CYC	CAA-C2A-C1A	2.81	129.98	125.01
13	MA	1001	CYC	CAA-C2A-C1A	2.81	129.98	125.01
13	J5	1001	CYC	CAA-C2A-C1A	2.81	129.98	125.01
13	S5	1001	CYC	CAA-C2A-C1A	2.81	129.98	125.01
13	Q6	201	CYC	C2C-C1C-NC	2.81	110.69	108.27
13	S6	1001	CYC	CAA-C2A-C1A	2.81	129.98	125.01
13	Z2	201	CYC	CMB-C2B-C1B	2.81	127.67	124.17
13	DA	1001	CYC	CAA-C2A-C1A	2.81	129.98	125.01
13	AA	303	CYC	C4A-C3A-C2A	-2.81	103.28	106.51
13	B1	1001	CYC	CAA-C2A-C1A	2.81	129.98	125.01
13	F3	1001	CYC	C2C-C1C-NC	2.81	110.69	108.27
13	L1	201	CYC	CAA-C2A-C1A	2.81	129.98	125.01
13	B2	1001	CYC	CAA-C2A-C1A	2.81	129.98	125.01
13	L6	201	CYC	CAA-C2A-C1A	2.81	129.97	125.01
13	B4	1001	CYC	CAA-C2A-C1A	2.81	129.97	125.01
13	K6	201	CYC	CHA-C1A-NA	-2.81	124.93	128.83
13	O2	1001	CYC	CAA-C2A-C1A	2.81	129.97	125.01
13	R2	1001	CYC	CAA-C2A-C1A	2.81	129.97	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Y4	201	CYC	CAA-C2A-C1A	2.81	129.97	125.01
13	O6	1001	CYC	CAA-C2A-C1A	2.81	129.97	125.01
13	F6	1001	CYC	OC-C1C-C2C	-2.81	123.94	126.17
13	J3	1001	CYC	CAA-C2A-C1A	2.80	129.97	125.01
13	L4	201	CYC	C2C-C1C-NC	2.80	110.69	108.27
13	C2	202	CYC	CMB-C2B-C1B	2.80	127.67	124.17
13	J7	1001	CYC	CAA-C2A-C1A	2.80	129.97	125.01
13	X1	201	CYC	CBA-CAA-C2A	2.80	120.42	112.63
13	Z4	201	CYC	CHA-C1A-NA	-2.80	124.94	128.83
13	G2	202	CYC	CAA-C2A-C1A	2.80	129.97	125.01
13	Y5	201	CYC	CAA-C2A-C1A	2.80	129.97	125.01
13	V9	201	CYC	CAD-CBD-CGD	-2.80	105.90	113.76
13	K7	201	CYC	CHA-C1A-NA	-2.80	124.94	128.83
13	O1	1001	CYC	CAA-C2A-C1A	2.80	129.97	125.01
13	M1	202	CYC	CMB-C2B-C1B	2.80	127.66	124.17
13	M2	201	CYC	CMB-C2B-C1B	2.80	127.66	124.17
13	U1	1001	CYC	CAA-C2A-C1A	2.80	129.96	125.01
13	F6	1001	CYC	CAA-C2A-C1A	2.80	129.96	125.01
13	K4	202	CYC	CMB-C2B-C1B	2.80	127.66	124.17
13	K6	202	CYC	CMB-C2B-C1B	2.80	127.66	124.17
13	X2	201	CYC	C2B-C1B-NB	2.80	111.09	106.99
13	IA	202	CYC	CMB-C2B-C1B	2.80	127.66	124.17
13	OA	1001	CYC	CAA-C2A-C1A	2.80	129.96	125.01
13	V2	202	CYC	C2C-C1C-NC	2.80	110.69	108.27
13	R6	1001	CYC	CAA-C2A-C1A	2.80	129.96	125.01
13	I1	201	CYC	O2A-CGA-CBA	2.80	123.02	114.03
13	K5	201	CYC	CMB-C2B-C1B	2.80	127.66	124.17
13	NA	301	CYC	C2B-C1B-NB	2.80	111.08	106.99
13	D3	1001	CYC	C2C-C1C-NC	2.80	110.68	108.27
13	m9	201	CYC	CAD-CBD-CGD	-2.80	105.92	113.76
13	C6	202	CYC	CMB-C2B-C1B	2.80	127.66	124.17
13	V5	201	CYC	C2B-C1B-NB	2.80	111.08	106.99
13	E2	201	CYC	C1B-C2B-C3B	-2.80	104.95	107.87
13	AA	303	CYC	CBA-CAA-C2A	2.80	120.39	112.63
13	D7	1001	CYC	OC-C1C-C2C	-2.79	123.95	126.17
13	T1	202	CYC	C2C-C1C-NC	2.79	110.68	108.27
13	T4	202	CYC	C2C-C1C-NC	2.79	110.68	108.27
13	E5	202	CYC	C2C-C1C-NC	2.79	110.68	108.27
13	G5	201	CYC	CHA-C1A-NA	-2.79	124.95	128.83
13	I5	202	CYC	CMB-C2B-C1B	2.79	127.66	124.17
13	GA	1002	CYC	CMB-C2B-C1B	2.79	127.66	124.17
13	Z1	202	CYC	CAA-C2A-C1A	2.79	129.95	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A5	303	CYC	CBA-CAA-C2A	2.79	120.39	112.63
13	W1	1001	CYC	C2C-C1C-NC	2.79	110.68	108.27
13	ZA	201	CYC	C4A-C3A-C2A	-2.79	103.30	106.51
13	Z1	201	CYC	CHA-C1A-NA	-2.79	124.95	128.83
13	E5	201	CYC	CHA-C1A-NA	-2.79	124.95	128.83
13	M4	202	CYC	CMB-C2B-C1B	2.79	127.65	124.17
13	H6	1001	CYC	CAA-C2A-C1A	2.79	129.95	125.01
13	P5	203	CYC	CAA-C2A-C1A	2.79	129.95	125.01
13	A5	303	CYC	C4A-C3A-C2A	-2.79	103.30	106.51
13	X6	202	CYC	CMB-C2B-C1B	2.79	127.65	124.17
13	Z6	202	CYC	C2C-C1C-NC	2.79	110.68	108.27
13	F3	1001	CYC	CAA-C2A-C1A	2.79	129.94	125.01
13	GA	1001	CYC	CAA-C2A-C1A	2.79	129.94	125.01
13	K2	202	CYC	CMB-C2B-C1B	2.79	127.65	124.17
13	V6	201	CYC	CMB-C2B-C1B	2.79	127.65	124.17
13	GA	1002	CYC	CHA-C1A-NA	-2.79	124.96	128.83
13	Q4	201	CYC	C2C-C1C-NC	2.79	110.67	108.27
13	C1	302	CYC	CMB-C2B-C1B	2.79	127.64	124.17
13	D5	1001	CYC	CAA-C2A-C1A	2.79	129.94	125.01
13	E1	201	CYC	C4A-C3A-C2A	-2.79	103.31	106.51
13	T5	201	CYC	CBA-CAA-C2A	2.78	120.36	112.63
13	E6	202	CYC	CHA-C1A-NA	-2.78	124.96	128.83
13	D3	1001	CYC	CAA-C2A-C1A	2.78	129.93	125.01
13	G4	202	CYC	CAA-C2A-C1A	2.78	129.93	125.01
13	Z4	201	CYC	CMB-C2B-C1B	2.78	127.64	124.17
13	B6	1001	CYC	CAA-C2A-C1A	2.78	129.93	125.01
13	F7	1001	CYC	CAA-C2A-C1A	2.78	129.93	125.01
13	ZA	201	CYC	CBA-CAA-C2A	2.78	120.36	112.63
13	I4	201	CYC	O2A-CGA-CBA	2.78	122.97	114.03
13	X5	201	CYC	C4A-C3A-C2A	-2.78	103.31	106.51
13	E7	201	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
13	X4	201	CYC	C2B-C1B-NB	2.78	111.06	106.99
13	H2	1001	CYC	CAA-C2A-C1A	2.78	129.93	125.01
13	K4	201	CYC	CHA-C1A-NA	-2.78	124.97	128.83
13	T5	201	CYC	C4A-C3A-C2A	-2.78	103.31	106.51
13	O4	1001	CYC	CAA-C2A-C1A	2.78	129.93	125.01
13	C2	201	CYC	C2C-C1C-NC	2.78	110.67	108.27
13	V5	201	CYC	CBA-CAA-C2A	2.78	120.35	112.63
13	ZA	202	CYC	CMB-C2B-C1B	2.78	127.64	124.17
13	IA	201	CYC	O2A-CGA-CBA	2.78	122.96	114.03
13	K2	201	CYC	CHA-C1A-NA	-2.78	124.97	128.83
13	I5	201	CYC	O2A-CGA-CBA	2.78	122.96	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	O1	1001	CYC	C2C-C1C-NC	2.78	110.67	108.27
13	Q4	201	CYC	CAA-C2A-C1A	2.78	129.93	125.01
13	VA	201	CYC	CBA-CAA-C2A	2.78	120.35	112.63
13	AA	304	CYC	O2A-CGA-CBA	2.78	122.96	114.03
13	F2	1001	CYC	C2C-C1C-NC	2.78	110.67	108.27
13	C6	201	CYC	C2C-C1C-NC	2.78	110.67	108.27
13	F2	1001	CYC	CAA-C2A-C1A	2.78	129.92	125.01
13	Z1	201	CYC	CMB-C2B-C1B	2.78	127.63	124.17
13	V4	201	CYC	CMB-C2B-C1B	2.78	127.63	124.17
13	KA	201	CYC	CMB-C2B-C1B	2.78	127.63	124.17
13	Z5	201	CYC	CBA-CAA-C2A	2.78	120.34	112.63
13	H4	1001	CYC	CAA-C2A-C1A	2.78	129.92	125.01
13	OA	1001	CYC	C2C-C1C-NC	2.77	110.67	108.27
13	X1	201	CYC	O2A-CGA-CBA	2.77	122.94	114.03
13	E4	201	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
13	X5	201	CYC	C2B-C1B-NB	2.77	111.05	106.99
13	A5	304	CYC	CBA-CAA-C2A	2.77	120.33	112.63
13	D4	1001	CYC	CAA-C2A-C1A	2.77	129.91	125.01
13	CA	201	CYC	CMB-C2B-C1B	2.77	127.63	124.17
13	E2	201	CYC	C4A-C3A-C2A	-2.77	103.32	106.51
13	F4	1001	CYC	CAA-C2A-C1A	2.77	129.91	125.01
13	H3	1001	CYC	CAA-C2A-C1A	2.77	129.91	125.01
13	W2	203	CYC	CMB-C2B-C1B	2.77	127.63	124.17
13	A5	302	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
13	V5	201	CYC	C4A-C3A-C2A	-2.77	103.33	106.51
13	ZA	202	CYC	CHA-C1A-NA	-2.77	124.98	128.83
13	F1	1001	CYC	CAA-C2A-C1A	2.77	129.91	125.01
13	A5	301	CYC	C4A-C3A-C2A	-2.77	103.33	106.51
13	E1	201	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
13	X1	202	CYC	CMB-C2B-C1B	2.77	127.62	124.17
13	E7	202	CYC	CHA-C1A-NA	-2.77	124.99	128.83
13	E1	202	CYC	CHA-C1A-NA	-2.77	124.99	128.83
13	g9	1001	CYC	CHD-C4C-NC	2.77	128.50	125.20
13	Z1	202	CYC	C2C-C1C-NC	2.77	110.66	108.27
13	F4	1001	CYC	C2C-C1C-NC	2.77	110.66	108.27
13	Z5	202	CYC	CMB-C2B-C1B	2.77	127.62	124.17
13	Z5	201	CYC	C4A-C3A-C2A	-2.77	103.33	106.51
13	VA	201	CYC	C2B-C1B-NB	2.77	111.04	106.99
13	K3	201	CYC	CHA-C1A-NA	-2.77	124.99	128.83
13	D1	1001	CYC	CAA-C2A-C1A	2.77	129.90	125.01
13	A7	301	CYC	CAA-CBA-CGA	2.77	119.56	113.60
13	Z2	202	CYC	C2C-C1C-NC	2.77	110.66	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	NA	301	CYC	CBA-CAA-C2A	2.77	120.31	112.63
13	H7	1001	CYC	CAA-C2A-C1A	2.76	129.90	125.01
13	N5	301	CYC	CBA-CAA-C2A	2.76	120.31	112.63
13	E2	202	CYC	CHA-C1A-NA	-2.76	124.99	128.83
13	Q2	201	CYC	C2C-C1C-NC	2.76	110.66	108.27
13	Q1	201	CYC	CAA-C2A-C1A	2.76	129.90	125.01
13	AA	304	CYC	CBA-CAA-C2A	2.76	120.31	112.63
13	N5	301	CYC	C2B-C1B-NB	2.76	111.03	106.99
13	m9	201	CYC	C2C-C1C-NC	2.76	110.66	108.27
13	B3	1001	CYC	CAA-C2A-C1A	2.76	129.90	125.01
13	TA	201	CYC	CBA-CAA-C2A	2.76	120.30	112.63
13	X6	201	CYC	C2B-C1B-NB	2.76	111.03	106.99
13	I7	202	CYC	CMB-C2B-C1B	2.76	127.61	124.17
13	E4	201	CYC	C4A-C3A-C2A	-2.76	103.34	106.51
13	E4	202	CYC	CHA-C1A-NA	-2.76	125.00	128.83
13	X5	202	CYC	CMB-C2B-C1B	2.76	127.61	124.17
13	A5	304	CYC	O2A-CGA-CBA	2.76	122.90	114.03
13	V2	201	CYC	CMB-C2B-C1B	2.76	127.61	124.17
13	AA	302	CYC	C4A-C3A-C2A	-2.76	103.34	106.51
13	D7	1001	CYC	CAA-C2A-C1A	2.76	129.89	125.01
13	X4	201	CYC	O2A-CGA-CBA	2.76	122.89	114.03
13	AA	302	CYC	C1B-C2B-C3B	-2.76	104.99	107.87
13	D2	1001	CYC	CAA-C2A-C1A	2.76	129.89	125.01
13	X1	201	CYC	C2B-C1B-NB	2.76	111.03	106.99
13	A3	301	CYC	CAA-CBA-CGA	2.76	119.54	113.60
13	E3	201	CYC	C1B-C2B-C3B	-2.76	104.99	107.87
13	B7	1001	CYC	CAA-C2A-C1A	2.76	129.89	125.01
13	I7	201	CYC	O2A-CGA-CBA	2.76	122.89	114.03
13	H7	1001	CYC	C2C-C1C-NC	2.76	110.65	108.27
13	ZA	201	CYC	C2B-C1B-NB	2.76	111.02	106.99
13	AA	301	CYC	C4A-C3A-C2A	-2.76	103.34	106.51
13	I3	202	CYC	CMB-C2B-C1B	2.76	127.61	124.17
13	U2	202	CYC	C2C-C1C-NC	2.76	110.65	108.27
13	Z5	201	CYC	C2B-C1B-NB	2.76	111.02	106.99
13	TA	201	CYC	O2A-CGA-CBA	2.76	122.88	114.03
13	I2	201	CYC	O2A-CGA-CBA	2.76	122.88	114.03
13	D6	1001	CYC	CAA-C2A-C1A	2.75	129.88	125.01
13	B4	1001	CYC	C2C-C1C-NC	2.75	110.65	108.27
13	I1	201	CYC	C2B-C1B-NB	2.75	111.02	106.99
13	J3	1001	CYC	CAA-CBA-CGA	2.75	119.53	113.60
13	E6	201	CYC	C1B-C2B-C3B	-2.75	105.00	107.87
13	G4	202	CYC	CAA-CBA-CGA	2.75	119.53	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	H3	1001	CYC	C2C-C1C-NC	2.75	110.64	108.27
13	IA	201	CYC	C2B-C1B-NB	2.75	111.02	106.99
13	EA	201	CYC	CHA-C1A-NA	-2.75	125.01	128.83
13	D3	1001	CYC	OC-C1C-C2C	-2.75	123.99	126.17
13	I3	201	CYC	O2A-CGA-CBA	2.75	122.86	114.03
13	T5	201	CYC	O2A-CGA-CBA	2.75	122.86	114.03
13	G1	202	CYC	CAA-CBA-CGA	2.75	119.52	113.60
13	Z6	201	CYC	CHA-C1A-NA	-2.75	125.01	128.83
13	XA	201	CYC	C2B-C1B-NB	2.75	111.01	106.99
13	E3	201	CYC	C4A-C3A-C2A	-2.75	103.35	106.51
13	L2	201	CYC	C2C-C1C-NC	2.75	110.64	108.27
13	V5	202	CYC	CMB-C2B-C1B	2.75	127.60	124.17
13	Z5	201	CYC	O2A-CGA-CBA	2.75	122.85	114.03
13	H1	1001	CYC	CAA-C2A-C1A	2.75	129.87	125.01
13	X2	201	CYC	C4A-C3A-C2A	-2.75	103.36	106.51
13	J7	1001	CYC	CAA-CBA-CGA	2.75	119.51	113.60
13	X1	201	CYC	C4A-C3A-C2A	-2.75	103.36	106.51
13	F1	1001	CYC	C2C-C1C-NC	2.74	110.64	108.27
13	XA	202	CYC	CMB-C2B-C1B	2.74	127.59	124.17
13	E3	202	CYC	CHA-C1A-NA	-2.74	125.02	128.83
13	O1	1001	CYC	CAA-CBA-CGA	2.74	119.50	113.60
13	H7	1001	CYC	CAA-CBA-CGA	2.74	119.50	113.60
13	A5	302	CYC	C4A-C3A-C2A	-2.74	103.36	106.51
13	NA	301	CYC	C4A-C3A-C2A	-2.74	103.36	106.51
13	VA	201	CYC	C4A-C3A-C2A	-2.74	103.36	106.51
13	H3	1001	CYC	CAA-CBA-CGA	2.74	119.50	113.60
13	Z5	202	CYC	CHA-C1A-NA	-2.74	125.03	128.83
13	M6	201	CYC	CHA-C1A-NA	-2.74	125.03	128.83
13	X6	201	CYC	C4A-C3A-C2A	-2.74	103.36	106.51
13	I6	201	CYC	O2A-CGA-CBA	2.74	122.83	114.03
13	M7	201	CYC	CHA-C1A-NA	-2.74	125.03	128.83
13	TA	201	CYC	C4A-C3A-C2A	-2.74	103.36	106.51
13	XA	201	CYC	C4A-C3A-C2A	-2.74	103.36	106.51
13	VA	202	CYC	CMB-C2B-C1B	2.74	127.58	124.17
13	U2	202	CYC	CAA-CBA-CGA	2.74	119.49	113.60
13	X6	201	CYC	O2A-CGA-CBA	2.73	122.82	114.03
13	U1	1001	CYC	CAA-CBA-CGA	2.73	119.49	113.60
13	J2	1001	CYC	CAA-CBA-CGA	2.73	119.49	113.60
13	U6	202	CYC	CAA-CBA-CGA	2.73	119.49	113.60
13	M2	201	CYC	CHA-C1A-NA	-2.73	125.03	128.83
13	I6	201	CYC	C2B-C1B-NB	2.73	110.99	106.99
13	ZA	201	CYC	O2A-CGA-CBA	2.73	122.81	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	O4	1001	CYC	CAA-CBA-CGA	2.73	119.48	113.60
13	PA	202	CYC	CHA-C1A-NA	-2.73	125.04	128.83
13	H2	1001	CYC	CAA-CBA-CGA	2.73	119.48	113.60
13	H6	1001	CYC	CAA-CBA-CGA	2.73	119.48	113.60
13	EA	202	CYC	CAA-CBA-CGA	2.73	119.48	113.60
13	M3	201	CYC	CHA-C1A-NA	-2.73	125.04	128.83
13	I3	202	CYC	CHA-C1A-NA	-2.73	125.04	128.83
13	F2	1001	CYC	OC-C1C-C2C	-2.73	124.00	126.17
13	T5	201	CYC	C2B-C1B-NB	2.73	110.98	106.99
13	Z1	202	CYC	CAA-CBA-CGA	2.73	119.48	113.60
13	W2	202	CYC	CAA-CBA-CGA	2.73	119.48	113.60
13	C2	201	CYC	CAA-CBA-CGA	2.73	119.47	113.60
13	U4	1001	CYC	CAA-CBA-CGA	2.73	119.47	113.60
13	O5	1001	CYC	CAA-CBA-CGA	2.73	119.47	113.60
13	J6	1001	CYC	CAA-CBA-CGA	2.73	119.47	113.60
13	W6	202	CYC	CAA-CBA-CGA	2.73	119.47	113.60
13	OA	1001	CYC	CAA-CBA-CGA	2.73	119.47	113.60
13	I5	201	CYC	C2B-C1B-NB	2.73	110.98	106.99
13	X4	202	CYC	CMB-C2B-C1B	2.72	127.57	124.17
13	G7	202	CYC	CHA-C1A-NA	-2.72	125.05	128.83
13	C5	201	CYC	CMB-C2B-C1B	2.72	127.57	124.17
13	RA	201	CYC	CHA-C1A-NA	-2.72	125.05	128.83
13	E5	202	CYC	CAA-CBA-CGA	2.72	119.46	113.60
13	E6	201	CYC	C4A-C3A-C2A	-2.72	103.38	106.51
13	U6	202	CYC	C2C-C1C-NC	2.72	110.62	108.27
13	G3	202	CYC	CHA-C1A-NA	-2.72	125.05	128.83
13	D7	1001	CYC	CAA-CBA-CGA	2.72	119.45	113.60
13	XA	201	CYC	O2A-CGA-CBA	2.72	122.76	114.03
13	L6	201	CYC	C2C-C1C-NC	2.72	110.61	108.27
13	X5	201	CYC	O2A-CGA-CBA	2.72	122.76	114.03
13	O2	1001	CYC	CAA-CBA-CGA	2.72	119.45	113.60
13	Z2	201	CYC	CHA-C1A-NA	-2.72	125.06	128.83
13	O6	1001	CYC	CAA-CBA-CGA	2.72	119.45	113.60
13	C1	301	CYC	CAA-CBA-CGA	2.71	119.44	113.60
13	U2	201	CYC	CHA-C1A-NA	-2.71	125.06	128.83
13	X2	201	CYC	O2A-CGA-CBA	2.71	122.75	114.03
13	I7	202	CYC	CHA-C1A-NA	-2.71	125.06	128.83
13	H1	1001	CYC	CAA-CBA-CGA	2.71	119.44	113.60
13	L3	201	CYC	CAA-CBA-CGA	2.71	119.44	113.60
13	C6	201	CYC	CAA-CBA-CGA	2.71	119.44	113.60
13	E7	201	CYC	C4A-C3A-C2A	-2.71	103.39	106.51
13	Z6	202	CYC	CAA-CBA-CGA	2.71	119.44	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	N5	301	CYC	O2A-CGA-CBA	2.71	122.74	114.03
13	V2	202	CYC	CAA-CBA-CGA	2.71	119.44	113.60
13	V5	201	CYC	O2A-CGA-CBA	2.71	122.74	114.03
13	W5	1001	CYC	CAA-CBA-CGA	2.71	119.44	113.60
13	Y6	201	CYC	CAA-CBA-CGA	2.71	119.44	113.60
13	I2	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
13	JA	1001	CYC	CAA-CBA-CGA	2.71	119.43	113.60
13	W4	1001	CYC	CAA-CBA-CGA	2.71	119.43	113.60
13	V1	202	CYC	CAA-CBA-CGA	2.71	119.43	113.60
13	L4	201	CYC	CAA-CBA-CGA	2.71	119.43	113.60
13	V4	202	CYC	CAA-CBA-CGA	2.71	119.43	113.60
13	TA	201	CYC	C2B-C1B-NB	2.71	110.95	106.99
13	W1	1001	CYC	CAA-CBA-CGA	2.71	119.43	113.60
13	G4	201	CYC	CHA-C1A-NA	-2.71	125.07	128.83
13	D2	1001	CYC	CAA-CBA-CGA	2.71	119.43	113.60
13	AA	301	CYC	C1B-C2B-C3B	-2.71	105.05	107.87
13	X4	201	CYC	C4A-C3A-C2A	-2.71	103.40	106.51
13	Y1	201	CYC	CAA-CBA-CGA	2.71	119.42	113.60
13	Q1	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
13	P5	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
13	PA	203	CYC	CAA-CBA-CGA	2.70	119.42	113.60
13	G3	201	CYC	CAA-CBA-CGA	2.70	119.42	113.60
13	H4	1001	CYC	CAA-CBA-CGA	2.70	119.42	113.60
13	Z4	202	CYC	CAA-CBA-CGA	2.70	119.42	113.60
13	X6	202	CYC	CHA-C1A-NA	-2.70	125.08	128.83
13	L1	201	CYC	CAA-CBA-CGA	2.70	119.42	113.60
13	Q2	201	CYC	CAA-CBA-CGA	2.70	119.42	113.60
13	D5	1001	CYC	CAA-CBA-CGA	2.70	119.42	113.60
13	C4	301	CYC	CAA-CBA-CGA	2.70	119.42	113.60
13	D3	1001	CYC	CAA-CBA-CGA	2.70	119.42	113.60
13	g9	1001	CYC	CMB-C2B-C1B	2.70	127.54	124.17
13	GA	1001	CYC	CAA-CBA-CGA	2.70	119.42	113.60
13	P1	202	CYC	CHA-C1A-NA	-2.70	125.08	128.83
13	AA	304	CYC	C4A-C3A-C2A	-2.70	103.41	106.51
13	I5	202	CYC	CHA-C1A-NA	-2.70	125.08	128.83
13	I2	201	CYC	C2B-C1B-NB	2.70	110.94	106.99
13	F1	1001	CYC	CAA-CBA-CGA	2.70	119.41	113.60
13	A7	301	CYC	C2C-C1C-NC	2.70	110.60	108.27
13	I4	201	CYC	C2B-C1B-NB	2.70	110.94	106.99
13	B7	1001	CYC	CAA-CBA-CGA	2.70	119.41	113.60
13	M1	202	CYC	CHA-C1A-NA	-2.70	125.08	128.83
13	R4	1001	CYC	CAA-CBA-CGA	2.70	119.41	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Y4	201	CYC	CAA-CBA-CGA	2.70	119.41	113.60
13	F7	1001	CYC	CAA-CBA-CGA	2.70	119.41	113.60
13	A5	301	CYC	C1B-C2B-C3B	-2.70	105.06	107.87
13	F2	1001	CYC	CAA-CBA-CGA	2.70	119.41	113.60
13	N5	301	CYC	C4A-C3A-C2A	-2.70	103.41	106.51
13	L2	201	CYC	CAA-CBA-CGA	2.70	119.41	113.60
13	A3	301	CYC	C2C-C1C-NC	2.70	110.60	108.27
13	09	1203	CYC	C2C-C1C-NC	2.70	110.60	108.27
13	VA	201	CYC	O2A-CGA-CBA	2.70	122.69	114.03
13	G2	201	CYC	CHA-C1A-NA	-2.70	125.09	128.83
13	Q1	201	CYC	CAA-CBA-CGA	2.70	119.41	113.60
13	R2	1001	CYC	CAA-CBA-CGA	2.70	119.41	113.60
13	Z2	202	CYC	CAA-CBA-CGA	2.70	119.41	113.60
13	DA	1001	CYC	CAA-CBA-CGA	2.70	119.41	113.60
13	Q4	201	CYC	CAA-CBA-CGA	2.70	119.41	113.60
13	W2	203	CYC	CHA-C1A-NA	-2.70	125.09	128.83
13	T5	202	CYC	CHA-C1A-NA	-2.70	125.09	128.83
13	U6	201	CYC	CHA-C1A-NA	-2.70	125.09	128.83
13	U5	1001	CYC	CAA-CBA-CGA	2.70	119.40	113.60
13	L7	201	CYC	CAA-CBA-CGA	2.70	119.40	113.60
13	NA	301	CYC	O2A-CGA-CBA	2.69	122.69	114.03
13	L5	201	CYC	CAA-CBA-CGA	2.69	119.40	113.60
13	B3	1001	CYC	CAA-CBA-CGA	2.69	119.40	113.60
13	Q4	202	CYC	CHA-C1A-NA	-2.69	125.09	128.83
13	J5	1001	CYC	CAA-CBA-CGA	2.69	119.40	113.60
13	WA	1001	CYC	CAA-CBA-CGA	2.69	119.39	113.60
13	D6	1001	CYC	CAA-CBA-CGA	2.69	119.39	113.60
13	IA	202	CYC	CHA-C1A-NA	-2.69	125.09	128.83
13	AA	303	CYC	O2A-CGA-CBA	2.69	122.67	114.03
13	S2	1001	CYC	CAA-CBA-CGA	2.69	119.39	113.60
13	G6	202	CYC	CAA-CBA-CGA	2.69	119.39	113.60
13	A5	303	CYC	C2B-C1B-NB	2.69	110.93	106.99
13	J4	1001	CYC	CAA-CBA-CGA	2.69	119.39	113.60
13	R1	1001	CYC	CAA-CBA-CGA	2.69	119.39	113.60
13	A5	303	CYC	O2A-CGA-CBA	2.69	122.67	114.03
13	UA	1001	CYC	CAA-CBA-CGA	2.69	119.39	113.60
13	S4	1001	CYC	CAA-CBA-CGA	2.69	119.39	113.60
13	YA	201	CYC	CAA-CBA-CGA	2.69	119.39	113.60
13	M4	202	CYC	CHA-C1A-NA	-2.69	125.10	128.83
13	M5	1003	CYC	CHA-C1A-NA	-2.69	125.10	128.83
13	V6	202	CYC	CAA-CBA-CGA	2.69	119.39	113.60
13	I6	202	CYC	CHA-C1A-NA	-2.69	125.10	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	R6	1001	CYC	CAA-CBA-CGA	2.69	119.38	113.60
13	SA	1001	CYC	CAA-CBA-CGA	2.69	119.38	113.60
13	Y2	201	CYC	CAA-CBA-CGA	2.69	119.38	113.60
13	S6	1001	CYC	CAA-CBA-CGA	2.69	119.38	113.60
13	G7	201	CYC	CAA-CBA-CGA	2.69	119.38	113.60
13	LA	201	CYC	CAA-CBA-CGA	2.69	119.38	113.60
13	c9	1001	CYC	C2C-C1C-NC	2.69	110.59	108.27
13	S5	1001	CYC	CAA-CBA-CGA	2.68	119.38	113.60
13	F6	1001	CYC	CAA-CBA-CGA	2.68	119.38	113.60
13	D4	1001	CYC	CAA-CBA-CGA	2.68	119.38	113.60
13	R5	201	CYC	CHA-C1A-NA	-2.68	125.10	128.83
13	I7	201	CYC	C2B-C1B-NB	2.68	110.92	106.99
13	M5	1001	CYC	CAA-CBA-CGA	2.68	119.38	113.60
13	p9	1001	CYC	C2C-C1C-NC	2.68	110.59	108.27
13	G6	201	CYC	CHA-C1A-NA	-2.68	125.11	128.83
13	P5	203	CYC	CAA-CBA-CGA	2.68	119.37	113.60
13	MA	1001	CYC	CAA-CBA-CGA	2.68	119.37	113.60
13	F4	1001	CYC	CAA-CBA-CGA	2.68	119.37	113.60
13	A5	304	CYC	C2B-C1B-NB	2.68	110.91	106.99
13	B4	1001	CYC	CAA-CBA-CGA	2.68	119.37	113.60
13	B5	1001	CYC	CAA-CBA-CGA	2.68	119.37	113.60
13	e9	1001	CYC	C2C-C1C-NC	2.68	110.58	108.27
13	B1	1001	CYC	CAA-CBA-CGA	2.68	119.37	113.60
13	L6	201	CYC	CAA-CBA-CGA	2.68	119.37	113.60
13	P4	202	CYC	CHA-C1A-NA	-2.68	125.11	128.83
13	t9	1001	CYC	C2C-C1C-NC	2.68	110.58	108.27
13	S1	1001	CYC	CAA-CBA-CGA	2.68	119.37	113.60
13	G2	202	CYC	CAA-CBA-CGA	2.68	119.36	113.60
13	J1	1001	CYC	CAA-CBA-CGA	2.68	119.36	113.60
13	N6	302	CYC	CAA-CBA-CGA	2.68	119.36	113.60
13	W6	201	CYC	CHA-C1A-NA	-2.68	125.11	128.83
13	Y5	201	CYC	CAA-CBA-CGA	2.67	119.36	113.60
13	AA	304	CYC	C2B-C1B-NB	2.67	110.90	106.99
13	B6	1001	CYC	CAA-CBA-CGA	2.67	119.36	113.60
13	19	1205	CYC	C2C-C1C-NC	2.67	110.58	108.27
13	B2	1001	CYC	CAA-CBA-CGA	2.67	119.35	113.60
13	T1	202	CYC	CAA-CBA-CGA	2.67	119.35	113.60
13	F3	1001	CYC	CAA-CBA-CGA	2.67	119.35	113.60
13	AA	303	CYC	C2B-C1B-NB	2.67	110.90	106.99
13	g9	1001	CYC	C2A-C1A-NA	2.67	113.93	110.05
13	T4	201	CYC	CHA-C1A-NA	-2.67	125.12	128.83
13	Q6	201	CYC	CAA-CBA-CGA	2.67	119.34	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	L3	201	CYC	C2C-C1C-NC	2.67	110.57	108.27
13	W2	201	CYC	CHA-C1A-NA	-2.67	125.13	128.83
13	D1	1001	CYC	CAA-CBA-CGA	2.66	119.34	113.60
13	G1	201	CYC	CHA-C1A-NA	-2.66	125.13	128.83
13	z9	1001	CYC	C2C-C1C-NC	2.66	110.57	108.27
13	T2	201	CYC	CHA-C1A-NA	-2.66	125.13	128.83
13	19	1204	CYC	C2C-C1C-NC	2.66	110.57	108.27
13	v9	1001	CYC	C2C-C1C-NC	2.66	110.57	108.27
13	A5	304	CYC	C4A-C3A-C2A	-2.66	103.45	106.51
13	MA	1003	CYC	CHA-C1A-NA	-2.66	125.14	128.83
13	j9	1001	CYC	C2C-C1C-NC	2.66	110.57	108.27
13	19	1203	CYC	C2C-C1C-NC	2.66	110.56	108.27
13	C5	201	CYC	CHA-C1A-NA	-2.66	125.14	128.83
13	N2	302	CYC	CAA-CBA-CGA	2.66	119.32	113.60
13	L9	1001	CYC	C2C-C1C-NC	2.66	110.56	108.27
13	I1	201	CYC	C4A-C3A-C2A	-2.66	103.46	106.51
13	K6	202	CYC	CHA-C1A-NA	-2.65	125.14	128.83
13	L7	201	CYC	C2C-C1C-NC	2.65	110.56	108.27
13	J9	1001	CYC	C2C-C1C-NC	2.65	110.56	108.27
13	I4	201	CYC	C4A-C3A-C2A	-2.65	103.46	106.51
13	T4	202	CYC	CAA-CBA-CGA	2.65	119.31	113.60
13	XA	202	CYC	CHA-C1A-NA	-2.65	125.15	128.83
13	I4	202	CYC	CHA-C1A-NA	-2.65	125.15	128.83
13	I3	201	CYC	C2B-C1B-NB	2.65	110.87	106.99
13	l9	1001	CYC	C2C-C1C-NC	2.65	110.56	108.27
13	K4	202	CYC	CHA-C1A-NA	-2.65	125.16	128.83
13	IA	201	CYC	C4A-C3A-C2A	-2.65	103.47	106.51
13	09	1202	CYC	CMB-C2B-C1B	2.64	127.47	124.17
13	B9	1001	CYC	C2C-C1C-NC	2.64	110.55	108.27
13	H9	1001	CYC	C2C-C1C-NC	2.64	110.55	108.27
13	TA	202	CYC	CHA-C1A-NA	-2.64	125.16	128.83
13	F9	1001	CYC	C2C-C1C-NC	2.64	110.55	108.27
13	g9	1001	CYC	CAA-CBA-CGA	-2.64	107.92	113.60
13	39	1001	CYC	C2C-C1C-NC	2.64	110.55	108.27
13	I2	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.51
13	D9	1001	CYC	C2C-C1C-NC	2.64	110.55	108.27
13	E2	201	CYC	C2B-C1B-NB	2.64	110.85	106.99
13	C2	202	CYC	CHA-C1A-NA	-2.64	125.17	128.83
13	x9	1001	CYC	C2C-C1C-NC	2.63	110.54	108.27
13	X4	202	CYC	CHA-C1A-NA	-2.63	125.17	128.83
13	C7	201	CYC	CHA-C1A-NA	-2.63	125.18	128.83
13	I7	201	CYC	C4A-C3A-C2A	-2.63	103.49	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	C9	1001	CYC	CHB-C1B-NB	-2.63	120.41	126.06
13	X5	202	CYC	CHA-C1A-NA	-2.63	125.18	128.83
13	C1	302	CYC	CHA-C1A-NA	-2.63	125.18	128.83
13	E9	1001	CYC	CHB-C1B-NB	-2.63	120.42	126.06
13	s9	1001	CYC	CHB-C1B-NB	-2.63	120.42	126.06
13	X1	202	CYC	CHA-C1A-NA	-2.63	125.18	128.83
13	T6	201	CYC	CHA-C1A-NA	-2.63	125.18	128.83
13	U9	1001	CYC	C2C-C1C-NC	2.63	110.54	108.27
13	R9	1001	CYC	CHB-C1B-NB	-2.63	120.42	126.06
13	O9	1001	CYC	C2C-C1C-NC	2.62	110.53	108.27
13	KA	201	CYC	CHA-C1A-NA	-2.62	125.19	128.83
13	y9	1001	CYC	CHB-C1B-NB	-2.62	120.44	126.06
13	X9	1001	CYC	CHB-C1B-NB	-2.62	120.44	126.06
13	C6	202	CYC	CHA-C1A-NA	-2.62	125.20	128.83
13	A9	1001	CYC	CHB-C1B-NB	-2.62	120.44	126.06
13	o9	1001	CYC	CHB-C1B-NB	-2.62	120.44	126.06
13	I3	201	CYC	C4A-C3A-C2A	-2.62	103.50	106.51
13	AA	301	CYC	C1A-C2A-C3A	-2.62	103.89	106.78
13	f9	1001	CYC	CHB-C1B-NB	-2.62	120.44	126.06
13	A5	301	CYC	C1A-C2A-C3A	-2.61	103.89	106.78
13	K2	202	CYC	CHA-C1A-NA	-2.61	125.20	128.83
13	C3	201	CYC	CHA-C1A-NA	-2.61	125.20	128.83
13	r9	1001	CYC	C2C-C1C-NC	2.61	110.53	108.27
13	K9	1001	CYC	CHB-C1B-NB	-2.61	120.45	126.06
13	k9	1001	CYC	CHB-C1B-NB	-2.61	120.45	126.06
13	I1	202	CYC	CHA-C1A-NA	-2.61	125.20	128.83
13	19	1202	CYC	CMB-C2B-C1B	2.61	127.43	124.17
13	I5	201	CYC	C4A-C3A-C2A	-2.61	103.51	106.51
13	29	1001	CYC	C2C-C1C-NC	2.61	110.52	108.27
13	N9	1001	CYC	CHB-C1B-NB	-2.61	120.46	126.06
13	I6	201	CYC	C4A-C3A-C2A	-2.61	103.51	106.51
13	E7	201	CYC	C1A-C2A-C3A	-2.61	103.90	106.78
13	T1	201	CYC	CHA-C1A-NA	-2.61	125.21	128.83
13	T9	1001	CYC	CHB-C1B-NB	-2.61	120.46	126.06
13	d9	1001	CYC	CHB-C1B-NB	-2.61	120.47	126.06
13	C4	302	CYC	CHA-C1A-NA	-2.61	125.21	128.83
13	E1	201	CYC	C2B-C1B-NB	2.60	110.80	106.99
13	u9	1001	CYC	CHB-C1B-NB	-2.60	120.47	126.06
13	K5	201	CYC	CHA-C1A-NA	-2.60	125.22	128.83
13	P9	1001	CYC	CHB-C1B-NB	-2.60	120.47	126.06
13	G9	1001	CYC	CHB-C1B-NB	-2.60	120.47	126.06
13	CA	201	CYC	CHA-C1A-NA	-2.60	125.22	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	I9	1001	CYC	CHB-C1B-NB	-2.60	120.48	126.06
13	E7	201	CYC	C2B-C1B-NB	2.60	110.79	106.99
13	q9	1001	CYC	CHB-C1B-NB	-2.59	120.49	126.06
13	E6	201	CYC	C2B-C1B-NB	2.59	110.78	106.99
13	Z9	1001	CYC	CHB-C1B-NB	-2.59	120.49	126.06
13	19	1202	CYC	CMA-C3A-C4A	2.59	129.06	125.06
13	w9	1001	CYC	CHB-C1B-NB	-2.59	120.50	126.06
13	K7	202	CYC	CHA-C1A-NA	-2.59	125.23	128.83
13	b9	1001	CYC	CHB-C1B-NB	-2.59	120.50	126.06
13	i9	1001	CYC	CHB-C1B-NB	-2.59	120.51	126.06
13	AA	301	CYC	C2B-C1B-NB	2.59	110.77	106.99
13	S9	1001	CYC	C2C-C1C-NC	2.59	110.50	108.27
13	E3	201	CYC	C2B-C1B-NB	2.58	110.77	106.99
13	K3	202	CYC	CHA-C1A-NA	-2.58	125.24	128.83
13	E3	201	CYC	C1A-C2A-C3A	-2.58	103.92	106.78
13	A5	302	CYC	C1A-C2A-C3A	-2.58	103.92	106.78
13	E4	201	CYC	C2B-C1B-NB	2.58	110.77	106.99
13	K1	202	CYC	CHA-C1A-NA	-2.58	125.25	128.83
13	AA	302	CYC	C1A-C2A-C3A	-2.58	103.93	106.78
13	A5	302	CYC	C2B-C1B-NB	2.58	110.76	106.99
13	F3	1001	CYC	CMC-C2C-C1C	-2.57	106.87	112.40
13	MA	1002	CYC	CMB-C2B-C1B	2.56	127.37	124.17
13	E6	201	CYC	C1A-C2A-C3A	-2.56	103.94	106.78
13	F7	1001	CYC	CMC-C2C-C1C	-2.56	106.88	112.40
13	A5	301	CYC	C2B-C1B-NB	2.56	110.74	106.99
13	N9	1001	CYC	CHB-C4A-C3A	2.56	131.49	124.90
13	F2	1001	CYC	CMC-C2C-C1C	-2.56	106.88	112.40
13	L7	201	CYC	CMC-C2C-C1C	-2.56	106.89	112.40
13	T1	202	CYC	CMC-C2C-C1C	-2.56	106.89	112.40
13	g9	1001	CYC	CBC-CAC-C3C	-2.56	107.77	113.47
13	M1	201	CYC	CMB-C2B-C1B	2.56	127.36	124.17
13	P9	1001	CYC	CHB-C4A-C3A	2.56	131.47	124.90
13	L3	201	CYC	CMC-C2C-C1C	-2.55	106.90	112.40
13	Z9	1001	CYC	CHB-C4A-C3A	2.55	131.47	124.90
13	N2	301	CYC	CMB-C2B-C1B	2.55	127.36	124.17
13	N2	302	CYC	CMC-C2C-C1C	-2.55	106.90	112.40
13	M5	1002	CYC	CMB-C2B-C1B	2.55	127.35	124.17
13	N6	301	CYC	CMB-C2B-C1B	2.55	127.35	124.17
13	F6	1001	CYC	CMC-C2C-C1C	-2.55	106.90	112.40
13	E4	201	CYC	C1A-C2A-C3A	-2.55	103.96	106.78
13	AA	302	CYC	C2B-C1B-NB	2.55	110.72	106.99
13	C9	1001	CYC	CHB-C4A-C3A	2.55	131.45	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	y9	1001	CYC	CHB-C4A-C3A	2.55	131.45	124.90
13	H1	1001	CYC	CMC-C2C-C1C	-2.55	106.91	112.40
13	K9	1001	CYC	CHB-C4A-C3A	2.55	131.45	124.90
13	i9	1001	CYC	CHB-C4A-C3A	2.55	131.44	124.90
13	R1	1001	CYC	CMC-C2C-C1C	-2.55	106.92	112.40
13	A9	1001	CYC	CHB-C4A-C3A	2.54	131.44	124.90
13	b9	1001	CYC	CHB-C4A-C3A	2.54	131.44	124.90
13	Z2	202	CYC	CMC-C2C-C1C	-2.54	106.92	112.40
13	H7	1001	CYC	CMC-C2C-C1C	-2.54	106.92	112.40
13	G9	1001	CYC	CHB-C4A-C3A	2.54	131.44	124.90
13	H4	1001	CYC	CMC-C2C-C1C	-2.54	106.93	112.40
13	X9	1001	CYC	CHB-C4A-C3A	2.54	131.43	124.90
13	q9	1001	CYC	CHB-C4A-C3A	2.54	131.43	124.90
13	T4	202	CYC	CMC-C2C-C1C	-2.54	106.93	112.40
13	N6	302	CYC	CMC-C2C-C1C	-2.54	106.93	112.40
13	H2	1001	CYC	CMC-C2C-C1C	-2.54	106.93	112.40
13	o9	1001	CYC	CHB-C4A-C3A	2.54	131.43	124.90
13	V2	202	CYC	CMC-C2C-C1C	-2.54	106.93	112.40
13	19	1202	CYC	C1A-C2A-C3A	-2.54	103.97	106.78
13	R9	1001	CYC	CHB-C4A-C3A	2.54	131.42	124.90
13	MA	1001	CYC	CMC-C2C-C1C	-2.53	106.94	112.40
13	I9	1001	CYC	CHB-C4A-C3A	2.53	131.42	124.90
13	k9	1001	CYC	CHB-C4A-C3A	2.53	131.42	124.90
13	H6	1001	CYC	CMC-C2C-C1C	-2.53	106.94	112.40
13	u9	1001	CYC	CHB-C4A-C3A	2.53	131.42	124.90
13	H3	1001	CYC	CMC-C2C-C1C	-2.53	106.94	112.40
13	W5	1001	CYC	CMC-C2C-C1C	-2.53	106.94	112.40
13	N3	301	CYC	CMB-C2B-C1B	2.53	127.33	124.17
13	G2	202	CYC	CMC-C2C-C1C	-2.53	106.94	112.40
13	s9	1001	CYC	CHB-C4A-C3A	2.53	131.41	124.90
13	A3	301	CYC	CMC-C2C-C1C	-2.53	106.94	112.40
13	d9	1001	CYC	CHB-C4A-C3A	2.53	131.41	124.90
13	Q1	201	CYC	CMC-C2C-C1C	-2.53	106.94	112.40
13	A5	301	CYC	C1B-CHB-C4A	2.53	134.27	128.08
13	D3	1001	CYC	CMC-C2C-C1C	-2.53	106.95	112.40
13	V6	202	CYC	CMC-C2C-C1C	-2.53	106.95	112.40
13	V4	202	CYC	CMC-C2C-C1C	-2.53	106.95	112.40
13	Z4	202	CYC	CMC-C2C-C1C	-2.53	106.95	112.40
13	AA	301	CYC	C1B-CHB-C4A	2.53	134.26	128.08
13	R6	1001	CYC	CMC-C2C-C1C	-2.53	106.95	112.40
13	E9	1001	CYC	CHB-C4A-C3A	2.53	131.40	124.90
13	A7	301	CYC	CMC-C2C-C1C	-2.53	106.95	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	WA	1001	CYC	CMC-C2C-C1C	-2.53	106.95	112.40
13	D1	1001	CYC	CMC-C2C-C1C	-2.53	106.95	112.40
13	F4	1001	CYC	CMC-C2C-C1C	-2.53	106.95	112.40
13	D7	1001	CYC	CMC-C2C-C1C	-2.53	106.96	112.40
13	T9	1001	CYC	CHB-C4A-C3A	2.53	131.40	124.90
13	D2	1001	CYC	CMC-C2C-C1C	-2.52	106.96	112.40
13	M5	1001	CYC	CMC-C2C-C1C	-2.52	106.96	112.40
13	Z6	202	CYC	CMC-C2C-C1C	-2.52	106.97	112.40
13	N7	301	CYC	CMB-C2B-C1B	2.52	127.32	124.17
13	G6	202	CYC	CMC-C2C-C1C	-2.52	106.97	112.40
13	w9	1001	CYC	CHB-C4A-C3A	2.52	131.38	124.90
13	f9	1001	CYC	CHB-C4A-C3A	2.52	131.38	124.90
13	U4	1001	CYC	CMC-C2C-C1C	-2.52	106.97	112.40
13	G7	201	CYC	CMC-C2C-C1C	-2.52	106.97	112.40
13	E1	201	CYC	C1A-C2A-C3A	-2.52	103.99	106.78
13	U1	1001	CYC	CMC-C2C-C1C	-2.52	106.97	112.40
13	G3	201	CYC	CMC-C2C-C1C	-2.52	106.97	112.40
13	R4	1001	CYC	CMC-C2C-C1C	-2.52	106.97	112.40
13	LA	201	CYC	CMC-C2C-C1C	-2.52	106.97	112.40
13	C4	301	CYC	CMC-C2C-C1C	-2.52	106.97	112.40
13	R2	1001	CYC	CMC-C2C-C1C	-2.52	106.97	112.40
13	D4	1001	CYC	CMC-C2C-C1C	-2.52	106.97	112.40
13	Y6	201	CYC	CMC-C2C-C1C	-2.52	106.98	112.40
13	D6	1001	CYC	CMC-C2C-C1C	-2.52	106.98	112.40
13	E2	201	CYC	C1A-C2A-C3A	-2.52	104.00	106.78
13	E7	201	CYC	CHB-C1B-C2B	-2.52	121.96	126.95
13	M4	201	CYC	CMB-C2B-C1B	2.52	127.31	124.17
13	19	1202	CYC	C2A-C1A-NA	2.52	113.71	110.05
13	L2	201	CYC	CMC-C2C-C1C	-2.52	106.98	112.40
13	S2	1001	CYC	CMC-C2C-C1C	-2.52	106.98	112.40
13	W2	202	CYC	CMC-C2C-C1C	-2.52	106.98	112.40
13	E5	202	CYC	CMC-C2C-C1C	-2.52	106.98	112.40
13	U6	202	CYC	CMC-C2C-C1C	-2.52	106.98	112.40
13	Z1	202	CYC	CMC-C2C-C1C	-2.51	106.98	112.40
13	Y2	201	CYC	CMC-C2C-C1C	-2.51	106.98	112.40
13	G4	202	CYC	CMC-C2C-C1C	-2.51	106.99	112.40
13	C1	301	CYC	CMC-C2C-C1C	-2.51	106.99	112.40
13	DA	1001	CYC	CMC-C2C-C1C	-2.51	106.99	112.40
13	Q4	201	CYC	CMC-C2C-C1C	-2.51	106.99	112.40
13	Y4	201	CYC	CMC-C2C-C1C	-2.51	106.99	112.40
13	D5	1001	CYC	CMC-C2C-C1C	-2.51	106.99	112.40
13	Q2	201	CYC	CMC-C2C-C1C	-2.51	106.99	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	L4	201	CYC	CMC-C2C-C1C	-2.51	106.99	112.40
13	UA	1001	CYC	CMC-C2C-C1C	-2.51	107.00	112.40
13	P5	203	CYC	CMC-C2C-C1C	-2.51	107.00	112.40
13	JA	1001	CYC	CMC-C2C-C1C	-2.51	107.00	112.40
13	L1	201	CYC	CMC-C2C-C1C	-2.51	107.00	112.40
13	OA	1001	CYC	CMC-C2C-C1C	-2.51	107.00	112.40
13	L5	201	CYC	CMC-C2C-C1C	-2.51	107.00	112.40
13	G1	202	CYC	CMC-C2C-C1C	-2.51	107.00	112.40
13	B5	1001	CYC	CMC-C2C-C1C	-2.51	107.00	112.40
13	F1	1001	CYC	CMC-C2C-C1C	-2.50	107.01	112.40
13	O1	1001	CYC	CMC-C2C-C1C	-2.50	107.01	112.40
13	O2	1001	CYC	CMC-C2C-C1C	-2.50	107.01	112.40
13	O5	1001	CYC	CMC-C2C-C1C	-2.50	107.01	112.40
13	YA	201	CYC	CMC-C2C-C1C	-2.50	107.01	112.40
13	E2	201	CYC	CHB-C1B-C2B	-2.50	121.99	126.95
13	Y1	201	CYC	CMC-C2C-C1C	-2.50	107.01	112.40
13	W6	202	CYC	CMC-C2C-C1C	-2.50	107.01	112.40
13	E3	201	CYC	CHB-C1B-C2B	-2.50	122.00	126.95
13	O4	1001	CYC	CMC-C2C-C1C	-2.50	107.02	112.40
13	O6	1001	CYC	CMC-C2C-C1C	-2.50	107.02	112.40
13	09	1202	CYC	CMC-C2C-C1C	-2.50	107.02	112.40
13	J1	1001	CYC	CMC-C2C-C1C	-2.50	107.02	112.40
13	AA	302	CYC	C1B-CHB-C4A	2.50	134.18	128.08
13	V1	202	CYC	CMC-C2C-C1C	-2.50	107.02	112.40
13	S5	1001	CYC	CMC-C2C-C1C	-2.50	107.02	112.40
13	Y5	201	CYC	CMC-C2C-C1C	-2.50	107.02	112.40
13	PA	203	CYC	CMC-C2C-C1C	-2.50	107.02	112.40
13	Q6	201	CYC	CMC-C2C-C1C	-2.50	107.02	112.40
13	W4	1001	CYC	CMC-C2C-C1C	-2.49	107.03	112.40
13	E2	201	CYC	C1B-CHB-C4A	2.49	134.18	128.08
13	J4	1001	CYC	CMC-C2C-C1C	-2.49	107.03	112.40
13	S6	1001	CYC	CMC-C2C-C1C	-2.49	107.03	112.40
13	L6	201	CYC	CMC-C2C-C1C	-2.49	107.03	112.40
13	S1	1001	CYC	CMC-C2C-C1C	-2.49	107.03	112.40
13	J6	1001	CYC	CMC-C2C-C1C	-2.49	107.04	112.40
13	AA	301	CYC	CBD-CAD-C3D	-2.49	108.37	112.62
13	E6	201	CYC	CHB-C1B-C2B	-2.49	122.02	126.95
13	E3	201	CYC	CBD-CAD-C3D	-2.49	108.37	112.62
13	E7	201	CYC	CBD-CAD-C3D	-2.49	108.38	112.62
13	E1	201	CYC	CHB-C1B-C2B	-2.49	122.02	126.95
13	U2	202	CYC	CMC-C2C-C1C	-2.49	107.04	112.40
13	SA	1001	CYC	CMC-C2C-C1C	-2.49	107.04	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	C2	201	CYC	CMC-C2C-C1C	-2.49	107.05	112.40
13	S4	1001	CYC	CMC-C2C-C1C	-2.48	107.05	112.40
13	GA	1001	CYC	CMC-C2C-C1C	-2.48	107.05	112.40
13	E6	201	CYC	C1B-CHB-C4A	2.48	134.15	128.08
13	W1	1001	CYC	CMC-C2C-C1C	-2.48	107.05	112.40
13	U5	1001	CYC	CMC-C2C-C1C	-2.48	107.05	112.40
13	09	1202	CYC	CHD-C4C-NC	2.48	128.16	125.20
13	EA	202	CYC	CMC-C2C-C1C	-2.48	107.05	112.40
13	E3	201	CYC	C1B-CHB-C4A	2.48	134.14	128.08
13	J5	1001	CYC	CMC-C2C-C1C	-2.48	107.06	112.40
13	A5	302	CYC	CHB-C1B-C2B	-2.48	122.03	126.95
13	A5	301	CYC	CBD-CAD-C3D	-2.48	108.39	112.62
13	C6	201	CYC	CMC-C2C-C1C	-2.48	107.06	112.40
13	J3	1001	CYC	CMC-C2C-C1C	-2.48	107.06	112.40
13	M8	1001	CYC	CHB-C1B-C2B	-2.48	122.04	126.95
13	E1	201	CYC	C1B-CHB-C4A	2.48	134.13	128.08
13	E7	201	CYC	C1B-CHB-C4A	2.47	134.13	128.08
13	P8	1001	CYC	CHB-C1B-C2B	-2.47	122.05	126.95
13	E4	201	CYC	C1B-CHB-C4A	2.47	134.12	128.08
13	A5	302	CYC	C1B-CHB-C4A	2.47	134.12	128.08
13	J2	1001	CYC	CMC-C2C-C1C	-2.47	107.08	112.40
13	E4	201	CYC	CHB-C1B-C2B	-2.47	122.05	126.95
13	19	1201	CYC	CHB-C1B-C2B	-2.47	122.05	126.95
13	B7	1001	CYC	CMC-C2C-C1C	-2.47	107.08	112.40
13	s8	1001	CYC	CHB-C1B-C2B	-2.47	122.06	126.95
13	D8	1001	CYC	CHB-C1B-C2B	-2.47	122.06	126.95
13	Y8	1001	CYC	CHB-C1B-C2B	-2.47	122.06	126.95
13	h8	1001	CYC	CHB-C1B-C2B	-2.47	122.06	126.95
13	b8	1001	CYC	CHB-C1B-C2B	-2.46	122.06	126.95
13	E6	201	CYC	CBD-CAD-C3D	-2.46	108.41	112.62
13	W8	1001	CYC	CHB-C1B-C2B	-2.46	122.06	126.95
13	B4	1001	CYC	CMC-C2C-C1C	-2.46	107.09	112.40
13	J7	1001	CYC	CMC-C2C-C1C	-2.46	107.09	112.40
13	f8	1001	CYC	CHB-C1B-C2B	-2.46	122.07	126.95
13	B3	1001	CYC	CMC-C2C-C1C	-2.46	107.10	112.40
13	q8	1001	CYC	CHB-C1B-C2B	-2.46	122.08	126.95
13	R8	1001	CYC	CHB-C1B-C2B	-2.46	122.08	126.95
13	B2	1001	CYC	CMC-C2C-C1C	-2.46	107.11	112.40
13	k8	1001	CYC	CHB-C1B-C2B	-2.46	122.08	126.95
13	T8	1001	CYC	CHB-C1B-C2B	-2.46	122.08	126.95
13	AA	302	CYC	CBD-CAD-C3D	-2.45	108.44	112.62
13	d8	1001	CYC	CHB-C1B-C2B	-2.45	122.09	126.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B6	1001	CYC	CMC-C2C-C1C	-2.45	107.12	112.40
13	B8	1001	CYC	CHB-C1B-C2B	-2.45	122.09	126.95
13	o8	1001	CYC	CHB-C1B-C2B	-2.45	122.09	126.95
13	09	1201	CYC	CHB-C1B-C2B	-2.45	122.10	126.95
13	g9	1001	CYC	CAD-CBD-CGD	-2.45	106.90	113.76
13	E1	201	CYC	CBD-CAD-C3D	-2.45	108.44	112.62
13	I1	201	CYC	O2A-CGA-O1A	-2.45	117.20	123.30
13	I8	1001	CYC	CHB-C1B-C2B	-2.45	122.10	126.95
13	AA	301	CYC	CHB-C1B-C2B	-2.44	122.11	126.95
13	F8	1001	CYC	CHB-C1B-C2B	-2.44	122.11	126.95
13	AA	301	CYC	C2A-C1A-NA	2.44	113.60	110.05
13	AA	302	CYC	C2A-C1A-NA	2.44	113.60	110.05
13	K8	1001	CYC	CHB-C1B-C2B	-2.44	122.11	126.95
13	G9	1001	CYC	C2A-C1A-NA	2.44	113.60	110.05
13	AA	302	CYC	CHB-C1B-C2B	-2.44	122.11	126.95
13	E2	201	CYC	CBD-CAD-C3D	-2.44	108.46	112.62
13	E9	1001	CYC	C2A-C1A-NA	2.44	113.59	110.05
13	A5	301	CYC	CHB-C1B-C2B	-2.44	122.12	126.95
13	B1	1001	CYC	CMC-C2C-C1C	-2.43	107.16	112.40
13	A5	302	CYC	CBD-CAD-C3D	-2.43	108.47	112.62
13	s9	1001	CYC	C2A-C1A-NA	2.43	113.58	110.05
13	N5	301	CYC	C2C-C3C-C4C	2.43	104.98	101.34
13	P9	1001	CYC	C2A-C1A-NA	2.43	113.58	110.05
13	Q9	201	CYC	C1A-C2A-C3A	-2.43	104.10	106.78
13	N9	1001	CYC	C2A-C1A-NA	2.42	113.58	110.05
13	u9	1001	CYC	C2A-C1A-NA	2.42	113.58	110.05
13	A5	301	CYC	C2A-C1A-NA	2.42	113.57	110.05
13	E4	201	CYC	CBD-CAD-C3D	-2.42	108.49	112.62
13	Q9	201	CYC	C2A-C1A-NA	2.42	113.56	110.05
13	AA	304	CYC	CMC-C2C-C1C	2.42	117.61	112.40
13	XA	201	CYC	CMC-C2C-C1C	2.42	117.61	112.40
13	w9	1001	CYC	C2A-C1A-NA	2.42	113.56	110.05
13	X1	201	CYC	O2A-CGA-O1A	-2.42	117.28	123.30
13	E6	201	CYC	C2A-C1A-NA	2.42	113.56	110.05
13	E7	201	CYC	C2A-C1A-NA	2.41	113.56	110.05
13	A5	302	CYC	C2A-C1A-NA	2.41	113.56	110.05
13	E4	201	CYC	C2A-C1A-NA	2.41	113.56	110.05
13	C9	1001	CYC	C2A-C1A-NA	2.41	113.56	110.05
13	Q9	201	CYC	CBC-CAC-C3C	-2.41	108.10	113.47
13	I4	201	CYC	O2A-CGA-O1A	-2.41	117.29	123.30
13	NA	301	CYC	C2C-C3C-C4C	2.41	104.95	101.34
13	y9	1001	CYC	C2A-C1A-NA	2.41	113.56	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Z5	201	CYC	C2C-C3C-C4C	2.41	104.95	101.34
13	A9	1001	CYC	C2A-C1A-NA	2.41	113.55	110.05
13	k9	1001	CYC	C2A-C1A-NA	2.41	113.55	110.05
13	I2	201	CYC	O2A-CGA-O1A	-2.41	117.30	123.30
13	q9	1001	CYC	C2A-C1A-NA	2.41	113.55	110.05
13	Z9	1001	CYC	C2A-C1A-NA	2.41	113.55	110.05
13	I9	1001	CYC	C2A-C1A-NA	2.41	113.55	110.05
13	ZA	201	CYC	C2C-C3C-C4C	2.40	104.94	101.34
13	f8	1001	CYC	CHD-C4C-NC	2.40	128.06	125.20
13	I5	201	CYC	O2A-CGA-O1A	-2.40	117.32	123.30
13	X4	201	CYC	CMC-C2C-C1C	2.40	117.58	112.40
13	X1	201	CYC	CMC-C2C-C1C	2.40	117.57	112.40
13	M8	1001	CYC	CHD-C4C-NC	2.40	128.06	125.20
13	E1	201	CYC	C2A-C1A-NA	2.40	113.54	110.05
13	AA	302	CYC	CHA-C1A-NA	-2.40	125.50	128.83
13	R9	1001	CYC	C2A-C1A-NA	2.40	113.54	110.05
13	o9	1001	CYC	C2A-C1A-NA	2.40	113.54	110.05
13	b9	1001	CYC	C2A-C1A-NA	2.40	113.53	110.05
13	K9	1001	CYC	C2A-C1A-NA	2.40	113.53	110.05
13	I7	201	CYC	O2A-CGA-O1A	-2.40	117.33	123.30
13	IA	201	CYC	O2A-CGA-O1A	-2.40	117.33	123.30
13	E2	201	CYC	C2A-C1A-NA	2.39	113.53	110.05
13	f9	1001	CYC	C2A-C1A-NA	2.39	113.53	110.05
13	R8	1001	CYC	CHD-C4C-NC	2.39	128.05	125.20
13	E3	201	CYC	C2A-C1A-NA	2.39	113.53	110.05
13	T9	1001	CYC	C2A-C1A-NA	2.39	113.53	110.05
13	i9	1001	CYC	C2A-C1A-NA	2.39	113.53	110.05
13	b8	1001	CYC	CHD-C4C-NC	2.39	128.05	125.20
13	X5	201	CYC	CMC-C2C-C1C	2.39	117.55	112.40
13	B9	1001	CYC	CBD-CAD-C3D	2.39	116.70	112.62
13	I3	201	CYC	O2A-CGA-O1A	-2.39	117.35	123.30
13	A5	304	CYC	CMC-C2C-C1C	2.39	117.55	112.40
13	z9	1001	CYC	CBD-CAD-C3D	2.39	116.69	112.62
13	h8	1001	CYC	CHD-C4C-NC	2.39	128.04	125.20
13	X9	1001	CYC	C2A-C1A-NA	2.39	113.52	110.05
13	p9	1001	CYC	CBD-CAD-C3D	2.38	116.69	112.62
13	X4	201	CYC	O2A-CGA-O1A	-2.38	117.36	123.30
13	d9	1001	CYC	C2A-C1A-NA	2.38	113.52	110.05
13	19	1204	CYC	CBD-CAD-C3D	2.38	116.69	112.62
13	39	1001	CYC	CBD-CAD-C3D	2.38	116.69	112.62
13	J9	1001	CYC	CBD-CAD-C3D	2.38	116.69	112.62
13	o8	1001	CYC	CHD-C4C-NC	2.38	128.03	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	E2	201	CYC	CHA-C1A-NA	-2.38	125.53	128.83
13	H9	1001	CYC	CBD-CAD-C3D	2.38	116.68	112.62
13	D8	1001	CYC	CHD-C4C-NC	2.38	128.03	125.20
13	V5	201	CYC	C2C-C3C-C4C	2.38	104.90	101.34
13	x9	1001	CYC	CBD-CAD-C3D	2.37	116.67	112.62
13	F9	1001	CYC	CBD-CAD-C3D	2.37	116.67	112.62
13	S9	1001	CYC	CBD-CAD-C3D	2.37	116.67	112.62
13	e9	1001	CYC	CBD-CAD-C3D	2.37	116.67	112.62
13	VA	201	CYC	C2C-C3C-C4C	2.37	104.89	101.34
13	r9	1001	CYC	CBD-CAD-C3D	2.37	116.67	112.62
13	P8	1001	CYC	CHD-C4C-NC	2.37	128.02	125.20
13	I1	201	CYC	C2C-C3C-C4C	2.37	104.89	101.34
13	T8	1001	CYC	CHD-C4C-NC	2.37	128.02	125.20
13	t9	1001	CYC	CBD-CAD-C3D	2.37	116.66	112.62
13	AA	301	CYC	CHA-C1A-NA	-2.37	125.54	128.83
13	c9	1001	CYC	CBD-CAD-C3D	2.37	116.66	112.62
13	k8	1001	CYC	CHD-C4C-NC	2.37	128.02	125.20
13	m9	201	CYC	CMD-C2D-C3D	-2.37	120.48	124.94
13	D9	1001	CYC	CBD-CAD-C3D	2.37	116.66	112.62
13	I4	201	CYC	C2C-C3C-C4C	2.37	104.88	101.34
13	L9	1001	CYC	CBD-CAD-C3D	2.37	116.66	112.62
13	F8	1001	CYC	CHD-C4C-NC	2.36	128.01	125.20
13	I6	201	CYC	O2A-CGA-O1A	-2.36	117.41	123.30
13	j9	1001	CYC	CBD-CAD-C3D	2.36	116.65	112.62
13	09	1203	CYC	CBD-CAD-C3D	2.36	116.65	112.62
13	O9	1001	CYC	CBD-CAD-C3D	2.36	116.65	112.62
13	Y8	1001	CYC	CHD-C4C-NC	2.36	128.01	125.20
13	IA	201	CYC	C2C-C3C-C4C	2.36	104.88	101.34
13	29	1001	CYC	CBD-CAD-C3D	2.36	116.65	112.62
13	B8	1001	CYC	CHD-C4C-NC	2.36	128.01	125.20
13	19	1205	CYC	CBD-CAD-C3D	2.36	116.64	112.62
13	E6	201	CYC	CHA-C1A-NA	-2.36	125.56	128.83
13	j9	1001	CYC	C1B-C2B-C3B	-2.36	105.41	107.87
13	I2	201	CYC	C2C-C3C-C4C	2.36	104.87	101.34
13	U9	1001	CYC	CBD-CAD-C3D	2.36	116.64	112.62
13	V9	201	CYC	CHB-C1B-NB	-2.35	121.00	126.06
13	V9	201	CYC	CMD-C2D-C3D	-2.35	120.50	124.94
13	19	1201	CYC	CHD-C4C-NC	2.35	128.00	125.20
13	T5	201	CYC	CMC-C2C-C1C	2.35	117.48	112.40
13	v9	1001	CYC	CBD-CAD-C3D	2.35	116.64	112.62
13	m9	201	CYC	CHB-C1B-NB	-2.35	121.01	126.06
13	d8	1001	CYC	CHD-C4C-NC	2.35	128.00	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	K8	1001	CYC	CHD-C4C-NC	2.35	128.00	125.20
13	I3	201	CYC	C2C-C3C-C4C	2.35	104.86	101.34
13	E9	1001	CYC	C1A-C2A-C3A	-2.35	104.19	106.78
13	A5	304	CYC	O2A-CGA-O1A	-2.35	117.45	123.30
13	X2	201	CYC	CMC-C2C-C1C	2.35	117.46	112.40
13	TA	201	CYC	CMC-C2C-C1C	2.35	117.46	112.40
13	b9	1001	CYC	C1A-C2A-C3A	-2.35	104.19	106.78
13	X2	201	CYC	O2A-CGA-O1A	-2.35	117.45	123.30
13	E4	201	CYC	CHA-C1A-NA	-2.34	125.57	128.83
13	X6	201	CYC	C2C-C3C-C4C	2.34	104.85	101.34
13	19	1205	CYC	C1B-C2B-C3B	-2.34	105.43	107.87
13	C9	1001	CYC	C1A-C2A-C3A	-2.34	104.19	106.78
13	l9	1001	CYC	CBD-CAD-C3D	2.34	116.62	112.62
13	TA	201	CYC	C2C-C3C-C4C	2.34	104.85	101.34
13	I8	1001	CYC	CHD-C4C-NC	2.34	127.99	125.20
13	I7	201	CYC	C2C-C3C-C4C	2.34	104.84	101.34
13	X6	201	CYC	O2A-CGA-O1A	-2.34	117.47	123.30
13	g9	1001	CYC	C1A-C2A-C3A	-2.34	104.19	106.78
13	X6	201	CYC	CMC-C2C-C1C	2.34	117.44	112.40
13	A5	302	CYC	CHA-C1A-NA	-2.33	125.59	128.83
13	s8	1001	CYC	CHD-C4C-NC	2.33	127.98	125.20
13	I9	1001	CYC	C1A-C2A-C3A	-2.33	104.20	106.78
13	K9	1001	CYC	C1A-C2A-C3A	-2.33	104.20	106.78
13	A5	303	CYC	C2C-C3C-C4C	2.33	104.83	101.34
13	G9	1001	CYC	C1A-C2A-C3A	-2.33	104.20	106.78
13	Z9	1001	CYC	C1A-C2A-C3A	-2.33	104.20	106.78
13	E1	201	CYC	CHA-C1A-NA	-2.33	125.59	128.83
13	AA	303	CYC	CMC-C2C-C1C	2.33	117.43	112.40
13	i9	1001	CYC	C1A-C2A-C3A	-2.33	104.20	106.78
13	Z5	201	CYC	O2A-CGA-O1A	-2.33	117.49	123.30
13	z9	1001	CYC	C1B-C2B-C3B	-2.33	105.44	107.87
13	T5	201	CYC	C2C-C3C-C4C	2.33	104.83	101.34
13	T5	201	CYC	O2A-CGA-O1A	-2.33	117.50	123.30
13	AA	304	CYC	O2A-CGA-O1A	-2.33	117.50	123.30
13	q9	1001	CYC	C1A-C2A-C3A	-2.33	104.21	106.78
13	AA	303	CYC	C2C-C3C-C4C	2.33	104.82	101.34
13	A5	301	CYC	CHA-C1A-NA	-2.33	125.60	128.83
13	19	1203	CYC	C1B-C2B-C3B	-2.32	105.44	107.87
13	19	1203	CYC	CBD-CAD-C3D	2.32	116.59	112.62
13	I5	201	CYC	C2C-C3C-C4C	2.32	104.82	101.34
13	N9	1001	CYC	C1A-C2A-C3A	-2.32	104.21	106.78
13	TA	201	CYC	O2A-CGA-O1A	-2.32	117.51	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	q8	1001	CYC	CHD-C4C-NC	2.32	127.97	125.20
13	I6	201	CYC	C2C-C3C-C4C	2.32	104.82	101.34
13	ZA	201	CYC	O2A-CGA-O1A	-2.32	117.52	123.30
13	y9	1001	CYC	C1A-C2A-C3A	-2.32	104.22	106.78
13	19	1204	CYC	C1B-C2B-C3B	-2.32	105.45	107.87
13	09	1201	CYC	CHD-C4C-NC	2.32	127.96	125.20
13	u9	1001	CYC	C1A-C2A-C3A	-2.32	104.22	106.78
13	e9	1001	CYC	C1B-C2B-C3B	-2.32	105.45	107.87
13	w9	1001	CYC	C1A-C2A-C3A	-2.32	104.22	106.78
13	x9	1001	CYC	C1B-C2B-C3B	-2.32	105.45	107.87
13	W8	1001	CYC	CHD-C4C-NC	2.31	127.95	125.20
13	X5	201	CYC	O2A-CGA-O1A	-2.31	117.54	123.30
13	T9	1001	CYC	C1A-C2A-C3A	-2.31	104.22	106.78
13	s9	1001	CYC	C1A-C2A-C3A	-2.31	104.23	106.78
13	X2	201	CYC	C2C-C3C-C4C	2.31	104.80	101.34
13	B9	1001	CYC	C1B-C2B-C3B	-2.31	105.46	107.87
13	Z5	201	CYC	CMC-C2C-C1C	2.31	117.38	112.40
13	R9	1001	CYC	C1A-C2A-C3A	-2.31	104.23	106.78
13	A5	304	CYC	C2C-C3C-C4C	2.31	104.80	101.34
13	Z5	201	CYC	C1A-NA-C4A	2.31	110.85	106.51
13	X1	201	CYC	C2C-C3C-C4C	2.30	104.79	101.34
13	I5	201	CYC	CMC-C2C-C1C	2.30	117.37	112.40
13	XA	201	CYC	O2A-CGA-O1A	-2.30	117.56	123.30
13	A5	303	CYC	CMC-C2C-C1C	2.30	117.36	112.40
13	P9	1001	CYC	C1A-C2A-C3A	-2.30	104.24	106.78
13	AA	303	CYC	C1A-NA-C4A	2.30	110.84	106.51
13	A5	303	CYC	C1A-NA-C4A	2.30	110.84	106.51
13	p9	1001	CYC	C1B-C2B-C3B	-2.30	105.47	107.87
13	m9	201	CYC	C2A-C1A-NA	2.30	113.39	110.05
13	H9	1001	CYC	C1B-C2B-C3B	-2.30	105.47	107.87
13	r9	1001	CYC	C1B-C2B-C3B	-2.30	105.47	107.87
13	k9	1001	CYC	C1A-C2A-C3A	-2.30	104.24	106.78
13	E7	201	CYC	CHA-C1A-NA	-2.30	125.64	128.83
13	f9	1001	CYC	C1A-C2A-C3A	-2.30	104.24	106.78
13	U9	1001	CYC	C1B-C2B-C3B	-2.30	105.48	107.87
13	l9	1001	CYC	C1B-C2B-C3B	-2.30	105.48	107.87
13	AA	304	CYC	C2C-C3C-C4C	2.29	104.78	101.34
13	X4	201	CYC	C1A-NA-C4A	2.29	110.83	106.51
13	ZA	201	CYC	CMC-C2C-C1C	2.29	117.35	112.40
13	O9	1001	CYC	C1B-C2B-C3B	-2.29	105.48	107.87
13	A9	1001	CYC	C1A-C2A-C3A	-2.29	104.25	106.78
13	I3	201	CYC	C2A-C1A-NA	2.29	113.38	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	d9	1001	CYC	C1A-C2A-C3A	-2.29	104.25	106.78
13	X4	201	CYC	C2C-C3C-C4C	2.29	104.77	101.34
13	I4	201	CYC	CMC-C2C-C1C	2.28	117.33	112.40
13	X5	201	CYC	C2C-C3C-C4C	2.28	104.76	101.34
13	N6	301	CYC	C1B-CHB-C4A	2.28	133.66	128.08
13	F9	1001	CYC	C1B-C2B-C3B	-2.28	105.49	107.87
13	A5	304	CYC	C1A-NA-C4A	2.28	110.81	106.51
13	X1	201	CYC	C1A-NA-C4A	2.28	110.81	106.51
13	I7	201	CYC	C2A-C1A-NA	2.28	113.37	110.05
13	S9	1001	CYC	C1B-C2B-C3B	-2.28	105.49	107.87
13	09	1203	CYC	C1B-C2B-C3B	-2.28	105.49	107.87
13	ZA	201	CYC	C1A-NA-C4A	2.28	110.81	106.51
13	o9	1001	CYC	C1A-C2A-C3A	-2.28	104.26	106.78
13	V9	201	CYC	C2A-C1A-NA	2.28	113.36	110.05
13	29	1001	CYC	C1B-C2B-C3B	-2.28	105.49	107.87
13	NA	301	CYC	CMC-C2C-C1C	2.28	117.31	112.40
13	c9	1001	CYC	C1B-C2B-C3B	-2.28	105.49	107.87
13	39	1001	CYC	CAC-C3C-C2C	-2.28	108.57	114.26
13	X2	201	CYC	C1A-NA-C4A	2.28	110.80	106.51
13	V5	201	CYC	CMC-C2C-C1C	2.28	117.31	112.40
13	39	1001	CYC	C1B-C2B-C3B	-2.27	105.50	107.87
13	N2	301	CYC	C1B-CHB-C4A	2.27	133.64	128.08
13	XA	201	CYC	C2C-C3C-C4C	2.27	104.74	101.34
13	X9	1001	CYC	C1A-C2A-C3A	-2.27	104.27	106.78
13	AA	303	CYC	O2A-CGA-O1A	-2.27	117.63	123.30
13	VA	201	CYC	CMC-C2C-C1C	2.27	117.30	112.40
13	IA	201	CYC	CMC-C2C-C1C	2.27	117.30	112.40
13	19	1204	CYC	O2D-CGD-CBD	2.27	121.32	114.03
13	J9	1001	CYC	O2D-CGD-CBD	2.27	121.32	114.03
13	V8	1001	CYC	C1A-C2A-C3A	-2.27	104.27	106.78
13	X6	201	CYC	C1A-NA-C4A	2.27	110.78	106.51
13	S9	1001	CYC	O2D-CGD-CBD	2.27	121.32	114.03
13	I1	201	CYC	CMC-C2C-C1C	2.27	117.29	112.40
13	TA	201	CYC	C1A-NA-C4A	2.27	110.78	106.51
13	E8	1001	CYC	C1A-C2A-C3A	-2.27	104.27	106.78
13	I6	201	CYC	CMC-C2C-C1C	2.27	117.29	112.40
13	S9	1001	CYC	CAC-C3C-C2C	-2.27	108.59	114.26
13	XA	201	CYC	C1A-NA-C4A	2.27	110.78	106.51
13	F9	1001	CYC	O2D-CGD-CBD	2.27	121.31	114.03
13	j8	1001	CYC	C1A-C2A-C3A	-2.27	104.28	106.78
13	X8	1001	CYC	C1A-C2A-C3A	-2.27	104.28	106.78
13	X5	201	CYC	C1A-NA-C4A	2.26	110.78	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	H8	1001	CYC	C1A-C2A-C3A	-2.26	104.28	106.78
13	39	1001	CYC	O2D-CGD-CBD	2.26	121.30	114.03
13	r9	1001	CYC	O2D-CGD-CBD	2.26	121.30	114.03
13	v9	1001	CYC	C1B-C2B-C3B	-2.26	105.51	107.87
13	T5	201	CYC	C1A-NA-C4A	2.26	110.77	106.51
13	M4	201	CYC	C1B-CHB-C4A	2.26	133.61	128.08
13	n8	1001	CYC	C1A-C2A-C3A	-2.26	104.28	106.78
13	N7	301	CYC	C1B-CHB-C4A	2.26	133.61	128.08
13	09	1203	CYC	CAC-C3C-C2C	-2.26	108.61	114.26
13	U9	1001	CYC	CAC-C3C-C2C	-2.26	108.61	114.26
13	MA	1002	CYC	C1B-CHB-C4A	2.26	133.61	128.08
13	c9	1001	CYC	O2D-CGD-CBD	2.26	121.30	114.03
13	29	1001	CYC	CAC-C3C-C2C	-2.26	108.61	114.26
13	O9	1001	CYC	O2D-CGD-CBD	2.26	121.29	114.03
13	x9	1001	CYC	O2D-CGD-CBD	2.26	121.29	114.03
13	r8	1001	CYC	C1A-C2A-C3A	-2.26	104.28	106.78
13	E3	201	CYC	CHA-C1A-NA	-2.26	125.69	128.83
13	r9	1001	CYC	CAC-C3C-C2C	-2.26	108.61	114.26
13	Q9	201	CYC	CAA-C2A-C1A	2.26	129.01	125.01
13	v9	1001	CYC	CAC-C3C-C2C	-2.26	108.61	114.26
13	I7	201	CYC	CMC-C2C-C1C	2.26	117.27	112.40
13	c9	1001	CYC	CAC-C3C-C2C	-2.26	108.61	114.26
13	M5	1002	CYC	C1B-CHB-C4A	2.26	133.60	128.08
13	H9	1001	CYC	CAC-C3C-C2C	-2.26	108.61	114.26
13	O8	1001	CYC	C1A-C2A-C3A	-2.26	104.28	106.78
13	09	1203	CYC	O2D-CGD-CBD	2.26	121.29	114.03
13	v9	1001	CYC	O2D-CGD-CBD	2.26	121.29	114.03
13	D9	1001	CYC	C1B-C2B-C3B	-2.26	105.51	107.87
13	z9	1001	CYC	O2D-CGD-CBD	2.26	121.29	114.03
13	V5	201	CYC	C1A-NA-C4A	2.26	110.77	106.51
13	D9	1001	CYC	CAC-C3C-C2C	-2.26	108.62	114.26
13	O9	1001	CYC	CAC-C3C-C2C	-2.26	108.62	114.26
13	19	1204	CYC	CAC-C3C-C2C	-2.26	108.62	114.26
13	p9	1001	CYC	CAC-C3C-C2C	-2.26	108.62	114.26
13	L9	1001	CYC	O2D-CGD-CBD	2.26	121.28	114.03
13	J8	1001	CYC	C1A-C2A-C3A	-2.26	104.28	106.78
13	g9	1001	CYC	CMC-C2C-C1C	-2.26	107.54	112.40
13	N5	301	CYC	CMC-C2C-C1C	2.26	117.27	112.40
13	AA	304	CYC	C1A-NA-C4A	2.26	110.76	106.51
13	A5	303	CYC	O2A-CGA-O1A	-2.26	117.68	123.30
13	I3	201	CYC	CMC-C2C-C1C	2.26	117.26	112.40
13	e9	1001	CYC	CAC-C3C-C2C	-2.25	108.62	114.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	J9	1001	CYC	C1B-C2B-C3B	-2.25	105.52	107.87
13	J9	1001	CYC	CAC-C3C-C2C	-2.25	108.63	114.26
13	e8	1001	CYC	C1A-C2A-C3A	-2.25	104.29	106.78
13	t8	1001	CYC	C1A-C2A-C3A	-2.25	104.29	106.78
13	t9	1001	CYC	CAC-C3C-C2C	-2.25	108.63	114.26
13	L9	1001	CYC	CAC-C3C-C2C	-2.25	108.63	114.26
13	U9	1001	CYC	O2D-CGD-CBD	2.25	121.26	114.03
13	29	1001	CYC	O2D-CGD-CBD	2.25	121.26	114.03
13	19	1205	CYC	CAC-C3C-C2C	-2.25	108.64	114.26
13	l9	1001	CYC	O2D-CGD-CBD	2.25	121.26	114.03
13	19	1203	CYC	CAC-C3C-C2C	-2.25	108.64	114.26
13	V8	1001	CYC	C2A-C1A-NA	2.25	113.32	110.05
13	N3	301	CYC	C1B-CHB-C4A	2.25	133.58	128.08
13	L9	1001	CYC	C1B-C2B-C3B	-2.25	105.52	107.87
13	19	1202	CYC	CAC-C3C-C4C	-2.25	106.90	112.67
13	z9	1001	CYC	CAC-C3C-C2C	-2.25	108.64	114.26
13	j9	1001	CYC	O2D-CGD-CBD	2.25	121.25	114.03
13	e9	1001	CYC	O2D-CGD-CBD	2.25	121.25	114.03
13	x9	1001	CYC	CAC-C3C-C2C	-2.25	108.65	114.26
13	N5	301	CYC	O2A-CGA-O1A	-2.25	117.70	123.30
13	t9	1001	CYC	O2D-CGD-CBD	2.25	121.25	114.03
13	I2	201	CYC	CMC-C2C-C1C	2.25	117.25	112.40
13	N5	301	CYC	C1A-NA-C4A	2.25	110.74	106.51
13	I2	201	CYC	C2A-C1A-NA	2.25	113.32	110.05
13	H9	1001	CYC	O2D-CGD-CBD	2.25	121.24	114.03
13	19	1203	CYC	O2D-CGD-CBD	2.24	121.24	114.03
13	n8	1001	CYC	C2A-C1A-NA	2.24	113.31	110.05
13	p9	1001	CYC	O2D-CGD-CBD	2.24	121.24	114.03
13	A8	1001	CYC	C1A-C2A-C3A	-2.24	104.30	106.78
13	Z8	1001	CYC	C1A-C2A-C3A	-2.24	104.30	106.78
13	j9	1001	CYC	CAC-C3C-C2C	-2.24	108.66	114.26
13	M1	201	CYC	C1B-CHB-C4A	2.24	133.56	128.08
13	l9	1001	CYC	CAC-C3C-C2C	-2.24	108.66	114.26
13	D9	1001	CYC	O2D-CGD-CBD	2.24	121.23	114.03
13	t9	1001	CYC	C1B-C2B-C3B	-2.24	105.53	107.87
13	F9	1001	CYC	CAC-C3C-C2C	-2.24	108.66	114.26
13	L8	1001	CYC	C1A-C2A-C3A	-2.24	104.30	106.78
13	Q8	1001	CYC	C1A-C2A-C3A	-2.24	104.30	106.78
13	S8	1001	CYC	C1A-C2A-C3A	-2.24	104.30	106.78
13	g8	1001	CYC	C1A-C2A-C3A	-2.24	104.30	106.78
13	19	1205	CYC	O2D-CGD-CBD	2.24	121.23	114.03
13	l8	1001	CYC	C1A-C2A-C3A	-2.24	104.30	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	B9	1001	CYC	O2D-CGD-CBD	2.24	121.23	114.03
13	B9	1001	CYC	CAC-C3C-C2C	-2.24	108.67	114.26
13	e8	1001	CYC	C2A-C1A-NA	2.24	113.30	110.05
13	NA	301	CYC	O2A-CGA-O1A	-2.23	117.73	123.30
13	C8	1001	CYC	C1A-C2A-C3A	-2.23	104.31	106.78
13	NA	301	CYC	C1A-NA-C4A	2.23	110.72	106.51
13	c8	1001	CYC	C1A-C2A-C3A	-2.23	104.32	106.78
13	t8	1001	CYC	C2A-C1A-NA	2.23	113.29	110.05
13	X8	1001	CYC	C2A-C1A-NA	2.23	113.29	110.05
13	L8	1001	CYC	C2A-C1A-NA	2.22	113.28	110.05
13	VA	201	CYC	CAA-C2A-C3A	2.22	132.01	127.88
13	r8	1001	CYC	C2A-C1A-NA	2.22	113.28	110.05
13	Q8	1001	CYC	C2A-C1A-NA	2.22	113.28	110.05
13	S8	1001	CYC	C2A-C1A-NA	2.22	113.28	110.05
13	VA	201	CYC	O2A-CGA-O1A	-2.22	117.77	123.30
13	C8	1001	CYC	C2A-C1A-NA	2.22	113.28	110.05
13	V5	201	CYC	O2A-CGA-O1A	-2.22	117.77	123.30
13	O8	1001	CYC	C2A-C1A-NA	2.22	113.27	110.05
13	09	1202	CYC	C1A-C2A-C3A	-2.22	104.33	106.78
13	VA	201	CYC	C1A-NA-C4A	2.22	110.69	106.51
13	H8	1001	CYC	C2A-C1A-NA	2.21	113.27	110.05
13	j8	1001	CYC	C2A-C1A-NA	2.21	113.27	110.05
13	E8	1001	CYC	C2A-C1A-NA	2.21	113.27	110.05
13	I4	201	CYC	C2A-C1A-NA	2.21	113.27	110.05
13	AA	303	CYC	CAA-C2A-C3A	2.21	131.99	127.88
13	V5	201	CYC	CAA-C2A-C3A	2.21	131.99	127.88
13	I1	201	CYC	C2A-C1A-NA	2.21	113.26	110.05
13	I6	201	CYC	C2A-C1A-NA	2.21	113.26	110.05
13	J8	1001	CYC	C2A-C1A-NA	2.21	113.26	110.05
13	A5	303	CYC	CAA-C2A-C3A	2.21	131.99	127.88
13	p8	1001	CYC	C1A-C2A-C3A	-2.20	104.34	106.78
13	c8	1001	CYC	C2A-C1A-NA	2.20	113.25	110.05
13	g8	1001	CYC	C2A-C1A-NA	2.20	113.25	110.05
13	I5	201	CYC	CAA-C2A-C3A	2.20	131.98	127.88
13	IA	201	CYC	CAA-C2A-C3A	2.20	131.98	127.88
13	l8	1001	CYC	C2A-C1A-NA	2.20	113.25	110.05
13	AA	304	CYC	CAA-C2A-C3A	2.20	131.97	127.88
13	A5	304	CYC	CAA-C2A-C3A	2.20	131.97	127.88
13	Z5	201	CYC	CAA-C2A-C3A	2.19	131.96	127.88
13	p8	1001	CYC	C2A-C1A-NA	2.19	113.24	110.05
13	e9	1001	CYC	CMB-C2B-C1B	2.19	126.90	124.17
13	Z8	1001	CYC	C2A-C1A-NA	2.19	113.23	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	A5	301	CYC	C2C-C1C-NC	2.19	110.16	108.27
13	A8	1001	CYC	C2A-C1A-NA	2.19	113.23	110.05
13	B9	1001	CYC	CMB-C2B-C1B	2.19	126.90	124.17
13	g8	1001	CYC	OC-C1C-C2C	-2.19	124.43	126.17
13	I1	201	CYC	CAA-C2A-C3A	2.19	131.95	127.88
13	ZA	201	CYC	CAA-C2A-C3A	2.19	131.95	127.88
13	19	1205	CYC	CMB-C2B-C1B	2.19	126.89	124.17
13	N5	301	CYC	CAA-C2A-C3A	2.18	131.95	127.88
13	N6	302	CYC	C2A-C1A-NA	2.18	113.23	110.05
13	c9	1001	CYC	CMB-C2B-C1B	2.18	126.89	124.17
13	IA	201	CYC	C2A-C1A-NA	2.18	113.22	110.05
13	z9	1001	CYC	CMB-C2B-C1B	2.18	126.89	124.17
13	E8	1001	CYC	CAC-C3C-C4C	-2.18	107.08	112.67
13	r9	1001	CYC	CMB-C2B-C1B	2.18	126.88	124.17
13	19	1204	CYC	CMB-C2B-C1B	2.17	126.88	124.17
13	J9	1001	CYC	CMB-C2B-C1B	2.17	126.88	124.17
13	x9	1001	CYC	CMB-C2B-C1B	2.17	126.88	124.17
13	O9	1001	CYC	CMB-C2B-C1B	2.17	126.88	124.17
13	l8	1001	CYC	CAC-C3C-C4C	-2.17	107.10	112.67
13	I4	201	CYC	CAA-C2A-C3A	2.17	131.92	127.88
13	j9	1001	CYC	CMB-C2B-C1B	2.17	126.87	124.17
13	X8	1001	CYC	CAC-C3C-C4C	-2.17	107.11	112.67
13	H9	1001	CYC	CMB-C2B-C1B	2.17	126.87	124.17
13	L8	1001	CYC	CAC-C3C-C4C	-2.17	107.11	112.67
13	29	1001	CYC	CMB-C2B-C1B	2.17	126.87	124.17
13	IA	201	CYC	C1A-NA-C4A	2.17	110.59	106.51
13	c8	1001	CYC	OC-C1C-C2C	-2.17	124.45	126.17
13	I6	201	CYC	CAA-C2A-C3A	2.16	131.91	127.88
13	p8	1001	CYC	CAC-C3C-C4C	-2.16	107.11	112.67
13	V8	1001	CYC	OC-C1C-C2C	-2.16	124.45	126.17
13	I5	201	CYC	C2A-C1A-NA	2.16	113.20	110.05
13	19	1203	CYC	CMB-C2B-C1B	2.16	126.87	124.17
13	F9	1001	CYC	CMB-C2B-C1B	2.16	126.87	124.17
13	E3	201	CYC	CAB-C3B-C2B	2.16	131.23	127.53
13	09	1202	CYC	CHB-C1B-C2B	-2.16	122.66	126.95
13	E7	201	CYC	CAB-C3B-C2B	2.16	131.23	127.53
13	e8	1001	CYC	CAC-C3C-C4C	-2.16	107.12	112.67
13	E6	201	CYC	CAB-C3B-C2B	2.16	131.23	127.53
13	S8	1001	CYC	CAC-C3C-C4C	-2.16	107.12	112.67
13	I5	201	CYC	C1A-NA-C4A	2.16	110.58	106.51
13	A8	1001	CYC	CAC-C3C-C4C	-2.16	107.12	112.67
13	J8	1001	CYC	CAC-C3C-C4C	-2.16	107.13	112.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	r8	1001	CYC	CAC-C3C-C4C	-2.16	107.13	112.67
13	I2	201	CYC	CAA-C2A-C3A	2.16	131.90	127.88
13	I1	201	CYC	C1A-NA-C4A	2.16	110.58	106.51
13	j8	1001	CYC	CAC-C3C-C4C	-2.16	107.13	112.67
13	N2	302	CYC	C2A-C1A-NA	2.16	113.19	110.05
13	XA	201	CYC	CAA-C2A-C3A	2.16	131.89	127.88
13	Q8	1001	CYC	CAC-C3C-C4C	-2.16	107.14	112.67
13	X4	201	CYC	CAA-C2A-C3A	2.16	131.89	127.88
13	AA	301	CYC	C2C-C1C-NC	2.15	110.13	108.27
13	p9	1001	CYC	CMB-C2B-C1B	2.15	126.86	124.17
13	V8	1001	CYC	CAC-C3C-C4C	-2.15	107.14	112.67
13	c8	1001	CYC	CAC-C3C-C4C	-2.15	107.14	112.67
13	O8	1001	CYC	CAC-C3C-C4C	-2.15	107.15	112.67
13	Z8	1001	CYC	CAC-C3C-C4C	-2.15	107.15	112.67
13	t8	1001	CYC	CAC-C3C-C4C	-2.15	107.15	112.67
13	R1	1001	CYC	C2A-C1A-NA	2.15	113.18	110.05
13	n8	1001	CYC	CAC-C3C-C4C	-2.15	107.15	112.67
13	V4	202	CYC	C2A-C1A-NA	2.15	113.18	110.05
13	D9	1001	CYC	CMB-C2B-C1B	2.15	126.85	124.17
13	l9	1001	CYC	CMB-C2B-C1B	2.15	126.85	124.17
13	v9	1001	CYC	CMB-C2B-C1B	2.15	126.85	124.17
13	E7	201	CYC	C2C-C1C-NC	2.15	110.13	108.27
13	V1	202	CYC	C2A-C1A-NA	2.15	113.17	110.05
13	NA	301	CYC	CAA-C2A-C3A	2.15	131.88	127.88
13	g8	1001	CYC	CAC-C3C-C4C	-2.15	107.16	112.67
13	T1	202	CYC	C2A-C1A-NA	2.15	113.17	110.05
13	N5	301	CYC	C2A-C1A-NA	2.15	113.17	110.05
13	H8	1001	CYC	CAC-C3C-C4C	-2.15	107.16	112.67
13	A8	1001	CYC	OC-C1C-C2C	-2.15	124.47	126.17
13	T4	202	CYC	C2A-C1A-NA	2.15	113.17	110.05
13	P6	201	CYC	C2C-C3C-C4C	2.15	104.55	101.34
13	F8	1001	CYC	C1B-CHB-C4A	2.14	133.32	128.08
13	C8	1001	CYC	CAC-C3C-C4C	-2.14	107.17	112.67
13	I6	201	CYC	C1A-NA-C4A	2.14	110.55	106.51
13	E8	1001	CYC	OC-C1C-C2C	-2.14	124.47	126.17
13	S9	1001	CYC	CMB-C2B-C1B	2.14	126.84	124.17
13	E2	201	CYC	CAB-C3B-C2B	2.14	131.19	127.53
13	L9	1001	CYC	CMB-C2B-C1B	2.14	126.84	124.17
13	E3	201	CYC	C2C-C1C-NC	2.14	110.12	108.27
13	I2	201	CYC	C1A-NA-C4A	2.14	110.54	106.51
13	X1	201	CYC	CAA-C2A-C3A	2.14	131.87	127.88
13	I4	201	CYC	C1A-NA-C4A	2.14	110.54	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	09	1203	CYC	CMB-C2B-C1B	2.14	126.84	124.17
13	t9	1001	CYC	CMB-C2B-C1B	2.14	126.84	124.17
13	o8	1001	CYC	C1B-CHB-C4A	2.14	133.30	128.08
13	t8	1001	CYC	OC-C1C-C2C	-2.14	124.47	126.17
13	b8	1001	CYC	C1B-CHB-C4A	2.14	133.30	128.08
13	X5	201	CYC	CAA-C2A-C3A	2.13	131.85	127.88
13	K8	1001	CYC	C1B-CHB-C4A	2.13	133.29	128.08
13	R8	1001	CYC	C1B-CHB-C4A	2.13	133.29	128.08
13	I8	1001	CYC	C1B-CHB-C4A	2.13	133.29	128.08
13	39	1001	CYC	CMB-C2B-C1B	2.13	126.83	124.17
13	Z8	1001	CYC	OC-C1C-C2C	-2.13	124.48	126.17
13	G6	202	CYC	C2A-C1A-NA	2.13	113.15	110.05
13	d8	1001	CYC	C1B-CHB-C4A	2.13	133.28	128.08
13	S8	1001	CYC	OC-C1C-C2C	-2.13	124.48	126.17
13	C6	201	CYC	C2A-C1A-NA	2.13	113.14	110.05
13	A7	301	CYC	C2A-C1A-NA	2.13	113.14	110.05
13	Y8	1001	CYC	C1B-CHB-C4A	2.13	133.28	128.08
13	j8	1001	CYC	OC-C1C-C2C	-2.13	124.48	126.17
13	P2	201	CYC	C2C-C3C-C4C	2.13	104.52	101.34
13	AA	304	CYC	C2A-C1A-NA	2.13	113.14	110.05
13	M8	1001	CYC	C1B-CHB-C4A	2.13	133.28	128.08
13	q8	1001	CYC	C1B-CHB-C4A	2.13	133.28	128.08
13	T8	1001	CYC	C1B-CHB-C4A	2.13	133.27	128.08
13	r8	1001	CYC	OC-C1C-C2C	-2.13	124.48	126.17
13	W8	1001	CYC	C1B-CHB-C4A	2.13	133.27	128.08
13	n8	1001	CYC	OC-C1C-C2C	-2.12	124.48	126.17
13	09	1201	CYC	C1B-CHB-C4A	2.12	133.27	128.08
13	NA	301	CYC	C2A-C1A-NA	2.12	113.14	110.05
13	I3	201	CYC	CAA-C2A-C3A	2.12	131.83	127.88
13	Z2	202	CYC	C2A-C1A-NA	2.12	113.14	110.05
13	U9	1001	CYC	CMB-C2B-C1B	2.12	126.81	124.17
13	s8	1001	CYC	C1B-CHB-C4A	2.12	133.26	128.08
13	19	1201	CYC	C1B-CHB-C4A	2.12	133.26	128.08
13	P1	201	CYC	C2C-C3C-C4C	2.12	104.52	101.34
13	I7	201	CYC	CAA-C2A-C3A	2.12	131.83	127.88
13	k8	1001	CYC	C1B-CHB-C4A	2.12	133.26	128.08
13	C2	201	CYC	C2A-C1A-NA	2.12	113.13	110.05
13	R2	1001	CYC	C2A-C1A-NA	2.12	113.13	110.05
13	V6	202	CYC	C2A-C1A-NA	2.12	113.13	110.05
13	H8	1001	CYC	OC-C1C-C2C	-2.12	124.49	126.17
13	PA	201	CYC	C2C-C3C-C4C	2.12	104.51	101.34
13	f8	1001	CYC	C1B-CHB-C4A	2.12	133.25	128.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	S1	1001	CYC	C2A-C1A-NA	2.12	113.13	110.05
13	D8	1001	CYC	C1B-CHB-C4A	2.12	133.25	128.08
13	h8	1001	CYC	C1B-CHB-C4A	2.12	133.25	128.08
13	X8	1001	CYC	OC-C1C-C2C	-2.12	124.49	126.17
13	P8	1001	CYC	C1B-CHB-C4A	2.11	133.25	128.08
13	U2	202	CYC	C2A-C1A-NA	2.11	113.12	110.05
13	X6	201	CYC	CAA-C2A-C3A	2.11	131.81	127.88
13	P4	201	CYC	C2C-C3C-C4C	2.11	104.50	101.34
13	A5	301	CYC	CAB-C3B-C2B	2.11	131.14	127.53
13	O8	1001	CYC	OC-C1C-C2C	-2.11	124.49	126.17
13	W1	1001	CYC	C2A-C1A-NA	2.11	113.12	110.05
13	I3	201	CYC	C1A-NA-C4A	2.11	110.49	106.51
13	I7	201	CYC	C1A-NA-C4A	2.11	110.49	106.51
13	TA	201	CYC	CAA-C2A-C3A	2.11	131.81	127.88
13	N5	301	CYC	CAC-C3C-C4C	-2.11	107.26	112.67
13	TA	201	CYC	CAC-C3C-C4C	-2.11	107.26	112.67
13	B8	1001	CYC	C1B-CHB-C4A	2.11	133.23	128.08
13	V2	202	CYC	C2A-C1A-NA	2.11	113.11	110.05
13	A3	301	CYC	C2A-C1A-NA	2.11	113.11	110.05
13	X5	201	CYC	C2A-C1A-NA	2.11	113.11	110.05
13	X2	201	CYC	CAA-C2A-C3A	2.11	131.80	127.88
13	T5	201	CYC	CAC-C3C-C4C	-2.11	107.27	112.67
13	P5	201	CYC	C2C-C3C-C4C	2.11	104.49	101.34
13	Q2	201	CYC	C2A-C1A-NA	2.11	113.11	110.05
13	Q6	201	CYC	C2A-C1A-NA	2.11	113.11	110.05
13	AA	301	CYC	CAB-C3B-C2B	2.11	131.13	127.53
13	VA	201	CYC	CAC-C3C-C4C	-2.10	107.27	112.67
13	EA	202	CYC	C2A-C1A-NA	2.10	113.11	110.05
13	X1	201	CYC	C2A-C1A-NA	2.10	113.11	110.05
13	R4	1001	CYC	C2A-C1A-NA	2.10	113.11	110.05
13	W4	1001	CYC	C2A-C1A-NA	2.10	113.11	110.05
13	E2	201	CYC	C2C-C1C-NC	2.10	110.08	108.27
13	WA	1001	CYC	C2A-C1A-NA	2.10	113.10	110.05
13	E6	201	CYC	C2C-C1C-NC	2.10	110.08	108.27
13	NA	301	CYC	CAC-C3C-C4C	-2.10	107.28	112.67
13	H2	1001	CYC	C2A-C1A-NA	2.10	113.10	110.05
13	A5	304	CYC	C2A-C1A-NA	2.10	113.10	110.05
13	S4	1001	CYC	C2A-C1A-NA	2.10	113.10	110.05
13	09	1202	CYC	CMD-C2D-C3D	2.10	128.89	124.94
13	L5	201	CYC	C2A-C1A-NA	2.10	113.10	110.05
13	Z6	202	CYC	C2A-C1A-NA	2.10	113.10	110.05
13	V5	201	CYC	CAC-C3C-C4C	-2.10	107.29	112.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	r8	1001	CYC	C2C-C3C-C4C	2.10	104.48	101.34
13	Q9	201	CYC	CHB-C1B-NB	-2.10	121.56	126.06
13	C1	301	CYC	C2A-C1A-NA	2.09	113.09	110.05
13	Z4	202	CYC	C2A-C1A-NA	2.09	113.09	110.05
13	E1	201	CYC	CAB-C3B-C2B	2.09	131.11	127.53
13	E4	201	CYC	CAB-C3B-C2B	2.09	131.11	127.53
13	G4	202	CYC	C2A-C1A-NA	2.09	113.09	110.05
13	S2	1001	CYC	C2A-C1A-NA	2.09	113.09	110.05
13	XA	201	CYC	C2A-C1A-NA	2.09	113.09	110.05
13	T5	201	CYC	CAA-C2A-C3A	2.09	131.77	127.88
13	J8	1001	CYC	OC-C1C-C2C	-2.09	124.51	126.17
13	c8	1001	CYC	C2C-C3C-C4C	2.09	104.47	101.34
13	R6	1001	CYC	C2A-C1A-NA	2.09	113.09	110.05
13	S5	1001	CYC	C2A-C1A-NA	2.09	113.08	110.05
13	I3	201	CYC	CAC-C3C-C4C	-2.09	107.31	112.67
13	UA	1001	CYC	C2A-C1A-NA	2.09	113.08	110.05
13	C8	1001	CYC	C2C-C3C-C4C	2.09	104.46	101.34
13	p8	1001	CYC	C2C-C3C-C4C	2.09	104.46	101.34
13	L8	1001	CYC	C2C-C3C-C4C	2.09	104.46	101.34
13	X8	1001	CYC	C2C-C3C-C4C	2.09	104.46	101.34
13	n8	1001	CYC	C2C-C3C-C4C	2.08	104.46	101.34
13	G1	202	CYC	C2A-C1A-NA	2.08	113.08	110.05
13	J8	1001	CYC	C2C-C3C-C4C	2.08	104.46	101.34
13	E5	202	CYC	C2A-C1A-NA	2.08	113.08	110.05
13	W5	1001	CYC	C2A-C1A-NA	2.08	113.08	110.05
13	g8	1001	CYC	C2C-C3C-C4C	2.08	104.45	101.34
13	H3	1001	CYC	C2A-C1A-NA	2.08	113.08	110.05
13	IA	201	CYC	CAC-C3C-C4C	-2.08	107.33	112.67
13	A5	302	CYC	CAB-C3B-C2B	2.08	131.09	127.53
13	H6	1001	CYC	C2A-C1A-NA	2.08	113.07	110.05
13	g9	1001	CYC	C4D-CHA-C1A	2.08	131.29	128.81
13	LA	201	CYC	C2A-C1A-NA	2.08	113.07	110.05
13	C8	1001	CYC	OC-C1C-C2C	-2.08	124.52	126.17
13	e8	1001	CYC	OC-C1C-C2C	-2.08	124.52	126.17
13	j8	1001	CYC	C2C-C3C-C4C	2.08	104.45	101.34
13	G3	201	CYC	C2A-C1A-NA	2.08	113.07	110.05
13	U6	202	CYC	C2A-C1A-NA	2.08	113.07	110.05
13	X6	201	CYC	C2A-C1A-NA	2.08	113.07	110.05
13	XA	201	CYC	CAC-C3C-C4C	-2.08	107.34	112.67
13	X4	201	CYC	C2A-C1A-NA	2.08	113.07	110.05
13	S6	1001	CYC	C2A-C1A-NA	2.08	113.07	110.05
13	X5	201	CYC	CAC-C3C-C4C	-2.08	107.34	112.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	I5	201	CYC	CAC-C3C-C4C	-2.08	107.34	112.67
13	I1	201	CYC	CAC-C3C-C4C	-2.07	107.34	112.67
13	G2	202	CYC	C2A-C1A-NA	2.07	113.07	110.05
13	P5	203	CYC	C2A-C1A-NA	2.07	113.07	110.05
13	SA	1001	CYC	C2A-C1A-NA	2.07	113.07	110.05
13	p8	1001	CYC	OC-C1C-C2C	-2.07	124.52	126.17
13	l8	1001	CYC	C2C-C3C-C4C	2.07	104.44	101.34
13	I6	201	CYC	CAC-C3C-C4C	-2.07	107.35	112.67
13	L8	1001	CYC	OC-C1C-C2C	-2.07	124.53	126.17
13	C4	301	CYC	C2A-C1A-NA	2.07	113.06	110.05
13	O8	1001	CYC	C2C-C3C-C4C	2.07	104.44	101.34
13	H7	1001	CYC	C2A-C1A-NA	2.07	113.06	110.05
13	V8	1001	CYC	C2C-C3C-C4C	2.07	104.44	101.34
13	H8	1001	CYC	CHB-C1B-NB	-2.07	121.61	126.06
13	I7	201	CYC	CAC-C3C-C4C	-2.07	107.36	112.67
13	G7	201	CYC	C2A-C1A-NA	2.07	113.06	110.05
13	D3	1001	CYC	C2A-C1A-NA	2.07	113.06	110.05
13	D7	1001	CYC	C2A-C1A-NA	2.07	113.06	110.05
13	M5	1001	CYC	C2A-C1A-NA	2.07	113.06	110.05
13	e8	1001	CYC	C2C-C3C-C4C	2.07	104.44	101.34
13	X2	201	CYC	C2A-C1A-NA	2.07	113.06	110.05
13	H1	1001	CYC	C2A-C1A-NA	2.07	113.06	110.05
13	I2	201	CYC	CAC-C3C-C4C	-2.07	107.37	112.67
13	JA	1001	CYC	C2A-C1A-NA	2.07	113.05	110.05
13	VA	201	CYC	C2A-C1A-NA	2.07	113.05	110.05
13	W6	202	CYC	C2A-C1A-NA	2.07	113.05	110.05
13	A5	302	CYC	C2C-C1C-NC	2.06	110.05	108.27
13	m9	201	CYC	CHD-C4C-NC	2.06	127.66	125.20
13	Y2	201	CYC	C2A-C1A-NA	2.06	113.05	110.05
13	A8	1001	CYC	C2C-C3C-C4C	2.06	104.43	101.34
13	Q8	1001	CYC	OC-C1C-C2C	-2.06	124.53	126.17
13	I4	201	CYC	CAC-C3C-C4C	-2.06	107.38	112.67
13	J2	1001	CYC	C2A-C1A-NA	2.06	113.05	110.05
13	H4	1001	CYC	C2A-C1A-NA	2.06	113.05	110.05
13	X6	201	CYC	CAC-C3C-C4C	-2.06	107.38	112.67
13	O5	1001	CYC	C2A-C1A-NA	2.06	113.05	110.05
13	AA	303	CYC	CAC-C3C-C4C	-2.06	107.38	112.67
13	g8	1001	CYC	CHB-C1B-NB	-2.06	121.63	126.06
13	B4	1001	CYC	C2A-C1A-NA	2.06	113.05	110.05
13	V8	1001	CYC	CAA-C2A-C1A	2.06	128.65	125.01
13	U4	1001	CYC	C2A-C1A-NA	2.06	113.05	110.05
13	U5	1001	CYC	C2A-C1A-NA	2.06	113.04	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	Z8	1001	CYC	CHB-C1B-NB	-2.06	121.64	126.06
13	O8	1001	CYC	CAA-C2A-C1A	2.06	128.65	125.01
13	X8	1001	CYC	CHB-C1B-NB	-2.06	121.64	126.06
13	n8	1001	CYC	CHB-C1B-NB	-2.06	121.64	126.06
13	t8	1001	CYC	C2C-C3C-C4C	2.06	104.42	101.34
13	Q8	1001	CYC	C2C-C3C-C4C	2.06	104.42	101.34
13	S8	1001	CYC	C2C-C3C-C4C	2.06	104.42	101.34
13	GA	1001	CYC	C2A-C1A-NA	2.06	113.04	110.05
13	X1	201	CYC	CAC-C3C-C4C	-2.06	107.39	112.67
13	E8	1001	CYC	C2C-C3C-C4C	2.05	104.42	101.34
13	Z8	1001	CYC	C2C-C3C-C4C	2.05	104.42	101.34
13	D1	1001	CYC	C2A-C1A-NA	2.05	113.04	110.05
13	PA	203	CYC	C2A-C1A-NA	2.05	113.04	110.05
13	L4	201	CYC	C2A-C1A-NA	2.05	113.04	110.05
13	O4	1001	CYC	C2A-C1A-NA	2.05	113.04	110.05
13	c8	1001	CYC	CHB-C1B-NB	-2.05	121.65	126.06
13	l8	1001	CYC	OC-C1C-C2C	-2.05	124.54	126.17
13	X4	201	CYC	CAC-C3C-C4C	-2.05	107.41	112.67
13	AA	302	CYC	C2C-C1C-NC	2.05	110.04	108.27
13	L2	201	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	e8	1001	CYC	CHB-C1B-NB	-2.05	121.66	126.06
13	DA	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	ZA	201	CYC	CAC-C3C-C4C	-2.05	107.41	112.67
13	E8	1001	CYC	CAA-C2A-C1A	2.05	128.63	125.01
13	D4	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	J4	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	Y6	201	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	MA	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	OA	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	E8	1001	CYC	CHB-C1B-NB	-2.05	121.66	126.06
13	Z1	202	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	J3	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	B5	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	B1	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	W2	202	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	D5	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
13	C8	1001	CYC	CHB-C1B-NB	-2.05	121.66	126.06
13	MA	1002	CYC	CHB-C1B-C2B	-2.05	122.89	126.95
13	AA	302	CYC	CAB-C3B-C2B	2.05	131.03	127.53
13	t8	1001	CYC	CAA-C2A-C1A	2.05	128.63	125.01
13	t8	1001	CYC	CHB-C1B-NB	-2.05	121.67	126.06
13	Q8	1001	CYC	CAA-C2A-C1A	2.05	128.63	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	J8	1001	CYC	CHB-C1B-NB	-2.05	121.67	126.06
13	J5	1001	CYC	C2A-C1A-NA	2.04	113.02	110.05
13	S8	1001	CYC	CHB-C1B-NB	-2.04	121.67	126.06
13	p8	1001	CYC	CHB-C1B-NB	-2.04	121.67	126.06
13	U1	1001	CYC	C2A-C1A-NA	2.04	113.02	110.05
13	X2	201	CYC	CAC-C3C-C4C	-2.04	107.43	112.67
13	Q1	201	CYC	C2A-C1A-NA	2.04	113.02	110.05
13	A5	303	CYC	C1B-C2B-C3B	-2.04	105.74	107.87
13	AA	304	CYC	CAC-C3C-C4C	-2.04	107.43	112.67
13	j8	1001	CYC	CAA-C2A-C1A	2.04	128.62	125.01
13	j8	1001	CYC	CHB-C1B-NB	-2.04	121.67	126.06
13	e8	1001	CYC	CAA-C2A-C1A	2.04	128.62	125.01
13	O1	1001	CYC	C2A-C1A-NA	2.04	113.02	110.05
13	J6	1001	CYC	C2A-C1A-NA	2.04	113.02	110.05
13	J1	1001	CYC	C2A-C1A-NA	2.04	113.02	110.05
13	O8	1001	CYC	CHB-C1B-NB	-2.04	121.68	126.06
13	l8	1001	CYC	CHB-C1B-NB	-2.04	121.68	126.06
13	c8	1001	CYC	CAA-C2A-C1A	2.04	128.62	125.01
13	r8	1001	CYC	CAA-C2A-C1A	2.04	128.62	125.01
13	r8	1001	CYC	CHB-C1B-NB	-2.04	121.68	126.06
13	YA	201	CYC	C2A-C1A-NA	2.04	113.02	110.05
13	A8	1001	CYC	CHB-C1B-NB	-2.04	121.68	126.06
13	A5	303	CYC	CAC-C3C-C4C	-2.04	107.44	112.67
13	H8	1001	CYC	CAA-C2A-C1A	2.04	128.62	125.01
13	X8	1001	CYC	CAA-C2A-C1A	2.04	128.61	125.01
13	n8	1001	CYC	CAA-C2A-C1A	2.04	128.61	125.01
13	Z5	201	CYC	CAC-C3C-C4C	-2.04	107.44	112.67
13	V8	1001	CYC	CHB-C1B-NB	-2.04	121.69	126.06
13	Q4	201	CYC	C2A-C1A-NA	2.04	113.01	110.05
13	p8	1001	CYC	CAA-C2A-C1A	2.04	128.61	125.01
13	Q8	1001	CYC	CHB-C1B-NB	-2.04	121.69	126.06
13	B6	1001	CYC	C2A-C1A-NA	2.04	113.01	110.05
13	C8	1001	CYC	CAA-C2A-C1A	2.04	128.61	125.01
13	S8	1001	CYC	CAA-C2A-C1A	2.03	128.61	125.01
13	ZA	201	CYC	C2A-C1A-NA	2.03	113.01	110.05
13	L8	1001	CYC	CHB-C1B-NB	-2.03	121.69	126.06
13	E4	201	CYC	C2C-C1C-NC	2.03	110.03	108.27
13	Y4	201	CYC	C2A-C1A-NA	2.03	113.00	110.05
13	F3	1001	CYC	C2A-C1A-NA	2.03	113.00	110.05
13	H8	1001	CYC	C2C-C3C-C4C	2.03	104.38	101.34
13	A5	304	CYC	CAC-C3C-C4C	-2.03	107.46	112.67
13	g8	1001	CYC	CAA-C2A-C1A	2.03	128.60	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	T5	201	CYC	C2A-C1A-NA	2.03	113.00	110.05
13	L1	201	CYC	C2A-C1A-NA	2.03	113.00	110.05
13	Z8	1001	CYC	CAA-C2A-C1A	2.03	128.60	125.01
13	TA	201	CYC	C2A-C1A-NA	2.03	113.00	110.05
13	V5	201	CYC	C2A-C1A-NA	2.03	113.00	110.05
13	F7	1001	CYC	C2A-C1A-NA	2.03	113.00	110.05
13	Y5	201	CYC	C2A-C1A-NA	2.03	113.00	110.05
13	J8	1001	CYC	CAA-C2A-C1A	2.03	128.59	125.01
13	L8	1001	CYC	CAA-C2A-C1A	2.03	128.59	125.01
13	F6	1001	CYC	C2A-C1A-NA	2.03	113.00	110.05
13	M5	1002	CYC	CHB-C1B-C2B	-2.02	122.94	126.95
13	J7	1001	CYC	C2A-C1A-NA	2.02	112.99	110.05
13	l8	1001	CYC	CAA-C2A-C1A	2.02	128.58	125.01
13	Y1	201	CYC	C2A-C1A-NA	2.02	112.99	110.05
13	B2	1001	CYC	C2A-C1A-NA	2.02	112.98	110.05
13	L6	201	CYC	C2A-C1A-NA	2.02	112.98	110.05
13	M1	201	CYC	CHB-C1B-C2B	-2.01	122.96	126.95
13	N6	301	CYC	CHB-C1B-C2B	-2.01	122.96	126.95
13	Z5	201	CYC	C2A-C1A-NA	2.01	112.98	110.05
13	E1	201	CYC	C2C-C1C-NC	2.01	110.01	108.27
13	V9	201	CYC	CAA-CBA-CGA	-2.01	109.27	113.60
13	N3	301	CYC	CHB-C1B-C2B	-2.01	122.96	126.95
13	F4	1001	CYC	C2A-C1A-NA	2.01	112.98	110.05
13	D2	1001	CYC	C2A-C1A-NA	2.01	112.97	110.05
13	19	1202	CYC	OC-C1C-NC	2.01	127.37	124.94
13	A8	1001	CYC	CAA-C2A-C1A	2.01	128.56	125.01
13	c9	1001	CYC	OB-C4B-C3B	-2.01	125.86	128.04
13	O2	1001	CYC	C2A-C1A-NA	2.01	112.97	110.05
13	M4	201	CYC	CHB-C1B-C2B	-2.00	122.98	126.95
13	D6	1001	CYC	C2A-C1A-NA	2.00	112.96	110.05
13	O6	1001	CYC	C2A-C1A-NA	2.00	112.96	110.05
13	M1	201	CYC	C2C-C3C-C4C	2.00	104.33	101.34

There are no chirality outliers.

All (3452) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
13	B1	1001	CYC	ND-C4D-CHA-C1A
13	B1	1001	CYC	C3D-C4D-CHA-C1A
13	B1	1001	CYC	NA-C4A-CHB-C1B
13	B1	1001	CYC	ND-C1D-CHD-C4C
13	B1	1001	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	C1	301	CYC	ND-C4D-CHA-C1A
13	C1	301	CYC	C3D-C4D-CHA-C1A
13	C1	301	CYC	NA-C4A-CHB-C1B
13	C1	301	CYC	ND-C1D-CHD-C4C
13	C1	301	CYC	C2D-C1D-CHD-C4C
13	C1	302	CYC	C3A-C2A-CAA-CBA
13	C1	302	CYC	ND-C1D-CHD-C4C
13	C1	302	CYC	C2D-C1D-CHD-C4C
13	C1	302	CYC	C2D-C3D-CAD-CBD
13	C1	302	CYC	C4D-C3D-CAD-CBD
13	D1	1001	CYC	ND-C4D-CHA-C1A
13	D1	1001	CYC	C3D-C4D-CHA-C1A
13	D1	1001	CYC	NA-C4A-CHB-C1B
13	D1	1001	CYC	ND-C1D-CHD-C4C
13	D1	1001	CYC	C2D-C1D-CHD-C4C
13	E1	201	CYC	ND-C1D-CHD-C4C
13	E1	201	CYC	C2D-C1D-CHD-C4C
13	E1	202	CYC	C3A-C2A-CAA-CBA
13	E1	202	CYC	ND-C1D-CHD-C4C
13	E1	202	CYC	C2D-C1D-CHD-C4C
13	E1	202	CYC	C2D-C3D-CAD-CBD
13	E1	202	CYC	C4D-C3D-CAD-CBD
13	F1	1001	CYC	ND-C4D-CHA-C1A
13	F1	1001	CYC	C3D-C4D-CHA-C1A
13	F1	1001	CYC	NA-C4A-CHB-C1B
13	F1	1001	CYC	ND-C1D-CHD-C4C
13	F1	1001	CYC	C2D-C1D-CHD-C4C
13	G1	201	CYC	C3A-C2A-CAA-CBA
13	G1	201	CYC	ND-C1D-CHD-C4C
13	G1	201	CYC	C2D-C1D-CHD-C4C
13	G1	201	CYC	C2D-C3D-CAD-CBD
13	G1	201	CYC	C4D-C3D-CAD-CBD
13	G1	202	CYC	ND-C4D-CHA-C1A
13	G1	202	CYC	C3D-C4D-CHA-C1A
13	G1	202	CYC	NA-C4A-CHB-C1B
13	G1	202	CYC	ND-C1D-CHD-C4C
13	G1	202	CYC	C2D-C1D-CHD-C4C
13	H1	1001	CYC	ND-C4D-CHA-C1A
13	H1	1001	CYC	C3D-C4D-CHA-C1A
13	H1	1001	CYC	NA-C4A-CHB-C1B
13	H1	1001	CYC	ND-C1D-CHD-C4C
13	H1	1001	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	I1	201	CYC	ND-C1D-CHD-C4C
13	I1	201	CYC	C2D-C1D-CHD-C4C
13	I1	202	CYC	C3A-C2A-CAA-CBA
13	I1	202	CYC	ND-C1D-CHD-C4C
13	I1	202	CYC	C2D-C1D-CHD-C4C
13	I1	202	CYC	C2D-C3D-CAD-CBD
13	I1	202	CYC	C4D-C3D-CAD-CBD
13	J1	1001	CYC	ND-C4D-CHA-C1A
13	J1	1001	CYC	C3D-C4D-CHA-C1A
13	J1	1001	CYC	NA-C4A-CHB-C1B
13	J1	1001	CYC	ND-C1D-CHD-C4C
13	J1	1001	CYC	C2D-C1D-CHD-C4C
13	K1	201	CYC	C3A-C2A-CAA-CBA
13	K1	201	CYC	ND-C1D-CHD-C4C
13	K1	201	CYC	C2D-C1D-CHD-C4C
13	K1	201	CYC	C2D-C3D-CAD-CBD
13	K1	201	CYC	C4D-C3D-CAD-CBD
13	K1	202	CYC	C3A-C2A-CAA-CBA
13	K1	202	CYC	ND-C1D-CHD-C4C
13	K1	202	CYC	C2D-C1D-CHD-C4C
13	K1	202	CYC	C2D-C3D-CAD-CBD
13	K1	202	CYC	C4D-C3D-CAD-CBD
13	L1	201	CYC	ND-C4D-CHA-C1A
13	L1	201	CYC	C3D-C4D-CHA-C1A
13	L1	201	CYC	NA-C4A-CHB-C1B
13	L1	201	CYC	ND-C1D-CHD-C4C
13	L1	201	CYC	C2D-C1D-CHD-C4C
13	M1	201	CYC	C3A-C2A-CAA-CBA
13	M1	201	CYC	ND-C1D-CHD-C4C
13	M1	201	CYC	C2D-C1D-CHD-C4C
13	M1	202	CYC	C3A-C2A-CAA-CBA
13	M1	202	CYC	ND-C1D-CHD-C4C
13	M1	202	CYC	C2D-C1D-CHD-C4C
13	M1	202	CYC	C2D-C3D-CAD-CBD
13	M1	202	CYC	C4D-C3D-CAD-CBD
13	O1	1001	CYC	ND-C4D-CHA-C1A
13	O1	1001	CYC	C3D-C4D-CHA-C1A
13	O1	1001	CYC	NA-C4A-CHB-C1B
13	O1	1001	CYC	ND-C1D-CHD-C4C
13	O1	1001	CYC	C2D-C1D-CHD-C4C
13	P1	201	CYC	NA-C4A-CHB-C1B
13	P1	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	P1	201	CYC	C2D-C1D-CHD-C4C
13	P1	202	CYC	C3A-C2A-CAA-CBA
13	P1	202	CYC	ND-C1D-CHD-C4C
13	P1	202	CYC	C2D-C1D-CHD-C4C
13	P1	202	CYC	C2D-C3D-CAD-CBD
13	P1	202	CYC	C4D-C3D-CAD-CBD
13	Q1	201	CYC	ND-C4D-CHA-C1A
13	Q1	201	CYC	C3D-C4D-CHA-C1A
13	Q1	201	CYC	NA-C4A-CHB-C1B
13	Q1	201	CYC	ND-C1D-CHD-C4C
13	Q1	201	CYC	C2D-C1D-CHD-C4C
13	Q1	202	CYC	C3A-C2A-CAA-CBA
13	Q1	202	CYC	ND-C1D-CHD-C4C
13	Q1	202	CYC	C2D-C1D-CHD-C4C
13	Q1	202	CYC	C2D-C3D-CAD-CBD
13	Q1	202	CYC	C4D-C3D-CAD-CBD
13	R1	1001	CYC	ND-C4D-CHA-C1A
13	R1	1001	CYC	C3D-C4D-CHA-C1A
13	R1	1001	CYC	NA-C4A-CHB-C1B
13	R1	1001	CYC	ND-C1D-CHD-C4C
13	R1	1001	CYC	C2D-C1D-CHD-C4C
13	S1	1001	CYC	ND-C4D-CHA-C1A
13	S1	1001	CYC	C3D-C4D-CHA-C1A
13	S1	1001	CYC	NA-C4A-CHB-C1B
13	S1	1001	CYC	ND-C1D-CHD-C4C
13	S1	1001	CYC	C2D-C1D-CHD-C4C
13	T1	201	CYC	C3A-C2A-CAA-CBA
13	T1	201	CYC	ND-C1D-CHD-C4C
13	T1	201	CYC	C2D-C1D-CHD-C4C
13	T1	201	CYC	C2D-C3D-CAD-CBD
13	T1	201	CYC	C4D-C3D-CAD-CBD
13	T1	202	CYC	ND-C4D-CHA-C1A
13	T1	202	CYC	C3D-C4D-CHA-C1A
13	T1	202	CYC	NA-C4A-CHB-C1B
13	T1	202	CYC	ND-C1D-CHD-C4C
13	T1	202	CYC	C2D-C1D-CHD-C4C
13	U1	1001	CYC	ND-C4D-CHA-C1A
13	U1	1001	CYC	C3D-C4D-CHA-C1A
13	U1	1001	CYC	NA-C4A-CHB-C1B
13	U1	1001	CYC	ND-C1D-CHD-C4C
13	U1	1001	CYC	C2D-C1D-CHD-C4C
13	V1	201	CYC	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	V1	201	CYC	ND-C1D-CHD-C4C
13	V1	201	CYC	C2D-C1D-CHD-C4C
13	V1	201	CYC	C2D-C3D-CAD-CBD
13	V1	201	CYC	C4D-C3D-CAD-CBD
13	V1	202	CYC	ND-C4D-CHA-C1A
13	V1	202	CYC	C3D-C4D-CHA-C1A
13	V1	202	CYC	NA-C4A-CHB-C1B
13	V1	202	CYC	ND-C1D-CHD-C4C
13	V1	202	CYC	C2D-C1D-CHD-C4C
13	W1	1001	CYC	ND-C4D-CHA-C1A
13	W1	1001	CYC	C3D-C4D-CHA-C1A
13	W1	1001	CYC	NA-C4A-CHB-C1B
13	W1	1001	CYC	ND-C1D-CHD-C4C
13	W1	1001	CYC	C2D-C1D-CHD-C4C
13	X1	201	CYC	ND-C1D-CHD-C4C
13	X1	201	CYC	C2D-C1D-CHD-C4C
13	X1	202	CYC	C3A-C2A-CAA-CBA
13	X1	202	CYC	ND-C1D-CHD-C4C
13	X1	202	CYC	C2D-C1D-CHD-C4C
13	X1	202	CYC	C2D-C3D-CAD-CBD
13	X1	202	CYC	C4D-C3D-CAD-CBD
13	Y1	201	CYC	ND-C4D-CHA-C1A
13	Y1	201	CYC	C3D-C4D-CHA-C1A
13	Y1	201	CYC	NA-C4A-CHB-C1B
13	Y1	201	CYC	ND-C1D-CHD-C4C
13	Y1	201	CYC	C2D-C1D-CHD-C4C
13	Z1	201	CYC	C3A-C2A-CAA-CBA
13	Z1	201	CYC	ND-C1D-CHD-C4C
13	Z1	201	CYC	C2D-C1D-CHD-C4C
13	Z1	201	CYC	C2D-C3D-CAD-CBD
13	Z1	201	CYC	C4D-C3D-CAD-CBD
13	Z1	202	CYC	ND-C4D-CHA-C1A
13	Z1	202	CYC	C3D-C4D-CHA-C1A
13	Z1	202	CYC	NA-C4A-CHB-C1B
13	Z1	202	CYC	ND-C1D-CHD-C4C
13	Z1	202	CYC	C2D-C1D-CHD-C4C
13	B2	1001	CYC	ND-C4D-CHA-C1A
13	B2	1001	CYC	C3D-C4D-CHA-C1A
13	B2	1001	CYC	NA-C4A-CHB-C1B
13	B2	1001	CYC	ND-C1D-CHD-C4C
13	B2	1001	CYC	C2D-C1D-CHD-C4C
13	C2	201	CYC	ND-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
13	C2	201	CYC	C3D-C4D-CHA-C1A
13	C2	201	CYC	NA-C4A-CHB-C1B
13	C2	201	CYC	ND-C1D-CHD-C4C
13	C2	201	CYC	C2D-C1D-CHD-C4C
13	C2	202	CYC	C3A-C2A-CAA-CBA
13	C2	202	CYC	ND-C1D-CHD-C4C
13	C2	202	CYC	C2D-C1D-CHD-C4C
13	C2	202	CYC	C2D-C3D-CAD-CBD
13	C2	202	CYC	C4D-C3D-CAD-CBD
13	D2	1001	CYC	ND-C4D-CHA-C1A
13	D2	1001	CYC	C3D-C4D-CHA-C1A
13	D2	1001	CYC	NA-C4A-CHB-C1B
13	D2	1001	CYC	ND-C1D-CHD-C4C
13	D2	1001	CYC	C2D-C1D-CHD-C4C
13	E2	201	CYC	ND-C1D-CHD-C4C
13	E2	201	CYC	C2D-C1D-CHD-C4C
13	E2	202	CYC	C3A-C2A-CAA-CBA
13	E2	202	CYC	ND-C1D-CHD-C4C
13	E2	202	CYC	C2D-C1D-CHD-C4C
13	E2	202	CYC	C2D-C3D-CAD-CBD
13	E2	202	CYC	C4D-C3D-CAD-CBD
13	F2	1001	CYC	ND-C4D-CHA-C1A
13	F2	1001	CYC	C3D-C4D-CHA-C1A
13	F2	1001	CYC	NA-C4A-CHB-C1B
13	F2	1001	CYC	ND-C1D-CHD-C4C
13	F2	1001	CYC	C2D-C1D-CHD-C4C
13	G2	201	CYC	C3A-C2A-CAA-CBA
13	G2	201	CYC	ND-C1D-CHD-C4C
13	G2	201	CYC	C2D-C1D-CHD-C4C
13	G2	201	CYC	C2D-C3D-CAD-CBD
13	G2	201	CYC	C4D-C3D-CAD-CBD
13	G2	202	CYC	ND-C4D-CHA-C1A
13	G2	202	CYC	C3D-C4D-CHA-C1A
13	G2	202	CYC	NA-C4A-CHB-C1B
13	G2	202	CYC	ND-C1D-CHD-C4C
13	G2	202	CYC	C2D-C1D-CHD-C4C
13	H2	1001	CYC	ND-C4D-CHA-C1A
13	H2	1001	CYC	C3D-C4D-CHA-C1A
13	H2	1001	CYC	NA-C4A-CHB-C1B
13	H2	1001	CYC	ND-C1D-CHD-C4C
13	H2	1001	CYC	C2D-C1D-CHD-C4C
13	I2	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	I2	201	CYC	C2D-C1D-CHD-C4C
13	I2	202	CYC	C3A-C2A-CAA-CBA
13	I2	202	CYC	ND-C1D-CHD-C4C
13	I2	202	CYC	C2D-C1D-CHD-C4C
13	I2	202	CYC	C2D-C3D-CAD-CBD
13	I2	202	CYC	C4D-C3D-CAD-CBD
13	J2	1001	CYC	ND-C4D-CHA-C1A
13	J2	1001	CYC	C3D-C4D-CHA-C1A
13	J2	1001	CYC	NA-C4A-CHB-C1B
13	J2	1001	CYC	ND-C1D-CHD-C4C
13	J2	1001	CYC	C2D-C1D-CHD-C4C
13	K2	201	CYC	C3A-C2A-CAA-CBA
13	K2	201	CYC	ND-C1D-CHD-C4C
13	K2	201	CYC	C2D-C1D-CHD-C4C
13	K2	201	CYC	C2D-C3D-CAD-CBD
13	K2	201	CYC	C4D-C3D-CAD-CBD
13	K2	202	CYC	C3A-C2A-CAA-CBA
13	K2	202	CYC	ND-C1D-CHD-C4C
13	K2	202	CYC	C2D-C1D-CHD-C4C
13	K2	202	CYC	C2D-C3D-CAD-CBD
13	K2	202	CYC	C4D-C3D-CAD-CBD
13	L2	201	CYC	ND-C4D-CHA-C1A
13	L2	201	CYC	C3D-C4D-CHA-C1A
13	L2	201	CYC	NA-C4A-CHB-C1B
13	L2	201	CYC	ND-C1D-CHD-C4C
13	L2	201	CYC	C2D-C1D-CHD-C4C
13	M2	201	CYC	C3A-C2A-CAA-CBA
13	M2	201	CYC	ND-C1D-CHD-C4C
13	M2	201	CYC	C2D-C1D-CHD-C4C
13	M2	201	CYC	C2D-C3D-CAD-CBD
13	M2	201	CYC	C4D-C3D-CAD-CBD
13	N2	301	CYC	C3A-C2A-CAA-CBA
13	N2	301	CYC	ND-C1D-CHD-C4C
13	N2	301	CYC	C2D-C1D-CHD-C4C
13	N2	302	CYC	ND-C4D-CHA-C1A
13	N2	302	CYC	C3D-C4D-CHA-C1A
13	N2	302	CYC	NA-C4A-CHB-C1B
13	N2	302	CYC	ND-C1D-CHD-C4C
13	N2	302	CYC	C2D-C1D-CHD-C4C
13	O2	1001	CYC	ND-C4D-CHA-C1A
13	O2	1001	CYC	C3D-C4D-CHA-C1A
13	O2	1001	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	O2	1001	CYC	ND-C1D-CHD-C4C
13	O2	1001	CYC	C2D-C1D-CHD-C4C
13	P2	201	CYC	NA-C4A-CHB-C1B
13	P2	201	CYC	ND-C1D-CHD-C4C
13	P2	201	CYC	C2D-C1D-CHD-C4C
13	Q2	201	CYC	ND-C4D-CHA-C1A
13	Q2	201	CYC	C3D-C4D-CHA-C1A
13	Q2	201	CYC	NA-C4A-CHB-C1B
13	Q2	201	CYC	ND-C1D-CHD-C4C
13	Q2	201	CYC	C2D-C1D-CHD-C4C
13	R2	1001	CYC	ND-C4D-CHA-C1A
13	R2	1001	CYC	C3D-C4D-CHA-C1A
13	R2	1001	CYC	NA-C4A-CHB-C1B
13	R2	1001	CYC	ND-C1D-CHD-C4C
13	R2	1001	CYC	C2D-C1D-CHD-C4C
13	S2	1001	CYC	ND-C4D-CHA-C1A
13	S2	1001	CYC	C3D-C4D-CHA-C1A
13	S2	1001	CYC	NA-C4A-CHB-C1B
13	S2	1001	CYC	ND-C1D-CHD-C4C
13	S2	1001	CYC	C2D-C1D-CHD-C4C
13	T2	201	CYC	C3A-C2A-CAA-CBA
13	T2	201	CYC	ND-C1D-CHD-C4C
13	T2	201	CYC	C2D-C1D-CHD-C4C
13	T2	201	CYC	C2D-C3D-CAD-CBD
13	T2	201	CYC	C4D-C3D-CAD-CBD
13	U2	201	CYC	C3A-C2A-CAA-CBA
13	U2	201	CYC	ND-C1D-CHD-C4C
13	U2	201	CYC	C2D-C1D-CHD-C4C
13	U2	201	CYC	C2D-C3D-CAD-CBD
13	U2	201	CYC	C4D-C3D-CAD-CBD
13	U2	202	CYC	ND-C4D-CHA-C1A
13	U2	202	CYC	C3D-C4D-CHA-C1A
13	U2	202	CYC	NA-C4A-CHB-C1B
13	U2	202	CYC	ND-C1D-CHD-C4C
13	U2	202	CYC	C2D-C1D-CHD-C4C
13	V2	201	CYC	C3A-C2A-CAA-CBA
13	V2	201	CYC	ND-C1D-CHD-C4C
13	V2	201	CYC	C2D-C1D-CHD-C4C
13	V2	201	CYC	C2D-C3D-CAD-CBD
13	V2	201	CYC	C4D-C3D-CAD-CBD
13	V2	202	CYC	ND-C4D-CHA-C1A
13	V2	202	CYC	C3D-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
13	V2	202	CYC	NA-C4A-CHB-C1B
13	V2	202	CYC	ND-C1D-CHD-C4C
13	V2	202	CYC	C2D-C1D-CHD-C4C
13	W2	201	CYC	C3A-C2A-CAA-CBA
13	W2	201	CYC	ND-C1D-CHD-C4C
13	W2	201	CYC	C2D-C1D-CHD-C4C
13	W2	201	CYC	C2D-C3D-CAD-CBD
13	W2	201	CYC	C4D-C3D-CAD-CBD
13	W2	202	CYC	ND-C4D-CHA-C1A
13	W2	202	CYC	C3D-C4D-CHA-C1A
13	W2	202	CYC	NA-C4A-CHB-C1B
13	W2	202	CYC	ND-C1D-CHD-C4C
13	W2	202	CYC	C2D-C1D-CHD-C4C
13	W2	203	CYC	C3A-C2A-CAA-CBA
13	W2	203	CYC	ND-C1D-CHD-C4C
13	W2	203	CYC	C2D-C1D-CHD-C4C
13	W2	203	CYC	C2D-C3D-CAD-CBD
13	W2	203	CYC	C4D-C3D-CAD-CBD
13	X2	201	CYC	ND-C1D-CHD-C4C
13	X2	201	CYC	C2D-C1D-CHD-C4C
13	Y2	201	CYC	ND-C4D-CHA-C1A
13	Y2	201	CYC	C3D-C4D-CHA-C1A
13	Y2	201	CYC	NA-C4A-CHB-C1B
13	Y2	201	CYC	ND-C1D-CHD-C4C
13	Y2	201	CYC	C2D-C1D-CHD-C4C
13	Z2	201	CYC	C3A-C2A-CAA-CBA
13	Z2	201	CYC	ND-C1D-CHD-C4C
13	Z2	201	CYC	C2D-C1D-CHD-C4C
13	Z2	201	CYC	C2D-C3D-CAD-CBD
13	Z2	201	CYC	C4D-C3D-CAD-CBD
13	Z2	202	CYC	ND-C4D-CHA-C1A
13	Z2	202	CYC	C3D-C4D-CHA-C1A
13	Z2	202	CYC	NA-C4A-CHB-C1B
13	Z2	202	CYC	ND-C1D-CHD-C4C
13	Z2	202	CYC	C2D-C1D-CHD-C4C
13	A3	301	CYC	ND-C4D-CHA-C1A
13	A3	301	CYC	C3D-C4D-CHA-C1A
13	A3	301	CYC	NA-C4A-CHB-C1B
13	A3	301	CYC	ND-C1D-CHD-C4C
13	A3	301	CYC	C2D-C1D-CHD-C4C
13	B3	1001	CYC	ND-C4D-CHA-C1A
13	B3	1001	CYC	C3D-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
13	B3	1001	CYC	NA-C4A-CHB-C1B
13	B3	1001	CYC	ND-C1D-CHD-C4C
13	B3	1001	CYC	C2D-C1D-CHD-C4C
13	C3	201	CYC	C3A-C2A-CAA-CBA
13	C3	201	CYC	ND-C1D-CHD-C4C
13	C3	201	CYC	C2D-C1D-CHD-C4C
13	C3	201	CYC	C2D-C3D-CAD-CBD
13	C3	201	CYC	C4D-C3D-CAD-CBD
13	D3	1001	CYC	ND-C4D-CHA-C1A
13	D3	1001	CYC	C3D-C4D-CHA-C1A
13	D3	1001	CYC	NA-C4A-CHB-C1B
13	D3	1001	CYC	ND-C1D-CHD-C4C
13	D3	1001	CYC	C2D-C1D-CHD-C4C
13	E3	201	CYC	ND-C1D-CHD-C4C
13	E3	201	CYC	C2D-C1D-CHD-C4C
13	E3	202	CYC	C3A-C2A-CAA-CBA
13	E3	202	CYC	ND-C1D-CHD-C4C
13	E3	202	CYC	C2D-C1D-CHD-C4C
13	E3	202	CYC	C2D-C3D-CAD-CBD
13	E3	202	CYC	C4D-C3D-CAD-CBD
13	F3	1001	CYC	ND-C4D-CHA-C1A
13	F3	1001	CYC	C3D-C4D-CHA-C1A
13	F3	1001	CYC	NA-C4A-CHB-C1B
13	F3	1001	CYC	ND-C1D-CHD-C4C
13	F3	1001	CYC	C2D-C1D-CHD-C4C
13	G3	201	CYC	ND-C4D-CHA-C1A
13	G3	201	CYC	C3D-C4D-CHA-C1A
13	G3	201	CYC	NA-C4A-CHB-C1B
13	G3	201	CYC	ND-C1D-CHD-C4C
13	G3	201	CYC	C2D-C1D-CHD-C4C
13	G3	202	CYC	C3A-C2A-CAA-CBA
13	G3	202	CYC	ND-C1D-CHD-C4C
13	G3	202	CYC	C2D-C1D-CHD-C4C
13	G3	202	CYC	C2D-C3D-CAD-CBD
13	G3	202	CYC	C4D-C3D-CAD-CBD
13	H3	1001	CYC	ND-C4D-CHA-C1A
13	H3	1001	CYC	C3D-C4D-CHA-C1A
13	H3	1001	CYC	NA-C4A-CHB-C1B
13	H3	1001	CYC	ND-C1D-CHD-C4C
13	H3	1001	CYC	C2D-C1D-CHD-C4C
13	I3	201	CYC	ND-C1D-CHD-C4C
13	I3	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	I3	202	CYC	C3A-C2A-CAA-CBA
13	I3	202	CYC	ND-C1D-CHD-C4C
13	I3	202	CYC	C2D-C1D-CHD-C4C
13	I3	202	CYC	C2D-C3D-CAD-CBD
13	I3	202	CYC	C4D-C3D-CAD-CBD
13	J3	1001	CYC	ND-C4D-CHA-C1A
13	J3	1001	CYC	C3D-C4D-CHA-C1A
13	J3	1001	CYC	NA-C4A-CHB-C1B
13	J3	1001	CYC	ND-C1D-CHD-C4C
13	J3	1001	CYC	C2D-C1D-CHD-C4C
13	K3	201	CYC	C3A-C2A-CAA-CBA
13	K3	201	CYC	ND-C1D-CHD-C4C
13	K3	201	CYC	C2D-C1D-CHD-C4C
13	K3	201	CYC	C2D-C3D-CAD-CBD
13	K3	201	CYC	C4D-C3D-CAD-CBD
13	K3	202	CYC	C3A-C2A-CAA-CBA
13	K3	202	CYC	ND-C1D-CHD-C4C
13	K3	202	CYC	C2D-C1D-CHD-C4C
13	K3	202	CYC	C2D-C3D-CAD-CBD
13	K3	202	CYC	C4D-C3D-CAD-CBD
13	L3	201	CYC	ND-C4D-CHA-C1A
13	L3	201	CYC	C3D-C4D-CHA-C1A
13	L3	201	CYC	NA-C4A-CHB-C1B
13	L3	201	CYC	ND-C1D-CHD-C4C
13	L3	201	CYC	C2D-C1D-CHD-C4C
13	M3	201	CYC	C3A-C2A-CAA-CBA
13	M3	201	CYC	ND-C1D-CHD-C4C
13	M3	201	CYC	C2D-C1D-CHD-C4C
13	M3	201	CYC	C2D-C3D-CAD-CBD
13	M3	201	CYC	C4D-C3D-CAD-CBD
13	N3	301	CYC	C3A-C2A-CAA-CBA
13	N3	301	CYC	ND-C1D-CHD-C4C
13	N3	301	CYC	C2D-C1D-CHD-C4C
13	B4	1001	CYC	ND-C4D-CHA-C1A
13	B4	1001	CYC	C3D-C4D-CHA-C1A
13	B4	1001	CYC	NA-C4A-CHB-C1B
13	B4	1001	CYC	ND-C1D-CHD-C4C
13	B4	1001	CYC	C2D-C1D-CHD-C4C
13	C4	301	CYC	ND-C4D-CHA-C1A
13	C4	301	CYC	C3D-C4D-CHA-C1A
13	C4	301	CYC	NA-C4A-CHB-C1B
13	C4	301	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	C4	301	CYC	C2D-C1D-CHD-C4C
13	C4	302	CYC	C3A-C2A-CAA-CBA
13	C4	302	CYC	ND-C1D-CHD-C4C
13	C4	302	CYC	C2D-C1D-CHD-C4C
13	C4	302	CYC	C2D-C3D-CAD-CBD
13	C4	302	CYC	C4D-C3D-CAD-CBD
13	D4	1001	CYC	ND-C4D-CHA-C1A
13	D4	1001	CYC	C3D-C4D-CHA-C1A
13	D4	1001	CYC	NA-C4A-CHB-C1B
13	D4	1001	CYC	ND-C1D-CHD-C4C
13	D4	1001	CYC	C2D-C1D-CHD-C4C
13	E4	201	CYC	ND-C1D-CHD-C4C
13	E4	201	CYC	C2D-C1D-CHD-C4C
13	E4	202	CYC	C3A-C2A-CAA-CBA
13	E4	202	CYC	ND-C1D-CHD-C4C
13	E4	202	CYC	C2D-C1D-CHD-C4C
13	E4	202	CYC	C2D-C3D-CAD-CBD
13	E4	202	CYC	C4D-C3D-CAD-CBD
13	F4	1001	CYC	ND-C4D-CHA-C1A
13	F4	1001	CYC	C3D-C4D-CHA-C1A
13	F4	1001	CYC	NA-C4A-CHB-C1B
13	F4	1001	CYC	ND-C1D-CHD-C4C
13	F4	1001	CYC	C2D-C1D-CHD-C4C
13	G4	201	CYC	C3A-C2A-CAA-CBA
13	G4	201	CYC	ND-C1D-CHD-C4C
13	G4	201	CYC	C2D-C1D-CHD-C4C
13	G4	201	CYC	C2D-C3D-CAD-CBD
13	G4	201	CYC	C4D-C3D-CAD-CBD
13	G4	202	CYC	ND-C4D-CHA-C1A
13	G4	202	CYC	C3D-C4D-CHA-C1A
13	G4	202	CYC	NA-C4A-CHB-C1B
13	G4	202	CYC	ND-C1D-CHD-C4C
13	G4	202	CYC	C2D-C1D-CHD-C4C
13	H4	1001	CYC	ND-C4D-CHA-C1A
13	H4	1001	CYC	C3D-C4D-CHA-C1A
13	H4	1001	CYC	NA-C4A-CHB-C1B
13	H4	1001	CYC	ND-C1D-CHD-C4C
13	H4	1001	CYC	C2D-C1D-CHD-C4C
13	I4	201	CYC	ND-C1D-CHD-C4C
13	I4	201	CYC	C2D-C1D-CHD-C4C
13	I4	202	CYC	C3A-C2A-CAA-CBA
13	I4	202	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	I4	202	CYC	C2D-C1D-CHD-C4C
13	I4	202	CYC	C2D-C3D-CAD-CBD
13	I4	202	CYC	C4D-C3D-CAD-CBD
13	J4	1001	CYC	ND-C4D-CHA-C1A
13	J4	1001	CYC	C3D-C4D-CHA-C1A
13	J4	1001	CYC	NA-C4A-CHB-C1B
13	J4	1001	CYC	ND-C1D-CHD-C4C
13	J4	1001	CYC	C2D-C1D-CHD-C4C
13	K4	201	CYC	C3A-C2A-CAA-CBA
13	K4	201	CYC	ND-C1D-CHD-C4C
13	K4	201	CYC	C2D-C1D-CHD-C4C
13	K4	201	CYC	C2D-C3D-CAD-CBD
13	K4	201	CYC	C4D-C3D-CAD-CBD
13	K4	202	CYC	C3A-C2A-CAA-CBA
13	K4	202	CYC	ND-C1D-CHD-C4C
13	K4	202	CYC	C2D-C1D-CHD-C4C
13	K4	202	CYC	C2D-C3D-CAD-CBD
13	K4	202	CYC	C4D-C3D-CAD-CBD
13	L4	201	CYC	ND-C4D-CHA-C1A
13	L4	201	CYC	C3D-C4D-CHA-C1A
13	L4	201	CYC	NA-C4A-CHB-C1B
13	L4	201	CYC	ND-C1D-CHD-C4C
13	L4	201	CYC	C2D-C1D-CHD-C4C
13	M4	201	CYC	C3A-C2A-CAA-CBA
13	M4	201	CYC	ND-C1D-CHD-C4C
13	M4	201	CYC	C2D-C1D-CHD-C4C
13	M4	202	CYC	C3A-C2A-CAA-CBA
13	M4	202	CYC	ND-C1D-CHD-C4C
13	M4	202	CYC	C2D-C1D-CHD-C4C
13	M4	202	CYC	C2D-C3D-CAD-CBD
13	M4	202	CYC	C4D-C3D-CAD-CBD
13	O4	1001	CYC	ND-C4D-CHA-C1A
13	O4	1001	CYC	C3D-C4D-CHA-C1A
13	O4	1001	CYC	NA-C4A-CHB-C1B
13	O4	1001	CYC	ND-C1D-CHD-C4C
13	O4	1001	CYC	C2D-C1D-CHD-C4C
13	P4	201	CYC	NA-C4A-CHB-C1B
13	P4	201	CYC	ND-C1D-CHD-C4C
13	P4	201	CYC	C2D-C1D-CHD-C4C
13	P4	202	CYC	C3A-C2A-CAA-CBA
13	P4	202	CYC	ND-C1D-CHD-C4C
13	P4	202	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	P4	202	CYC	C2D-C3D-CAD-CBD
13	P4	202	CYC	C4D-C3D-CAD-CBD
13	Q4	201	CYC	ND-C4D-CHA-C1A
13	Q4	201	CYC	C3D-C4D-CHA-C1A
13	Q4	201	CYC	NA-C4A-CHB-C1B
13	Q4	201	CYC	ND-C1D-CHD-C4C
13	Q4	201	CYC	C2D-C1D-CHD-C4C
13	Q4	202	CYC	C3A-C2A-CAA-CBA
13	Q4	202	CYC	ND-C1D-CHD-C4C
13	Q4	202	CYC	C2D-C1D-CHD-C4C
13	Q4	202	CYC	C2D-C3D-CAD-CBD
13	Q4	202	CYC	C4D-C3D-CAD-CBD
13	R4	1001	CYC	ND-C4D-CHA-C1A
13	R4	1001	CYC	C3D-C4D-CHA-C1A
13	R4	1001	CYC	NA-C4A-CHB-C1B
13	R4	1001	CYC	ND-C1D-CHD-C4C
13	R4	1001	CYC	C2D-C1D-CHD-C4C
13	S4	1001	CYC	ND-C4D-CHA-C1A
13	S4	1001	CYC	C3D-C4D-CHA-C1A
13	S4	1001	CYC	NA-C4A-CHB-C1B
13	S4	1001	CYC	ND-C1D-CHD-C4C
13	S4	1001	CYC	C2D-C1D-CHD-C4C
13	T4	201	CYC	C3A-C2A-CAA-CBA
13	T4	201	CYC	ND-C1D-CHD-C4C
13	T4	201	CYC	C2D-C1D-CHD-C4C
13	T4	201	CYC	C2D-C3D-CAD-CBD
13	T4	201	CYC	C4D-C3D-CAD-CBD
13	T4	202	CYC	ND-C4D-CHA-C1A
13	T4	202	CYC	C3D-C4D-CHA-C1A
13	T4	202	CYC	NA-C4A-CHB-C1B
13	T4	202	CYC	ND-C1D-CHD-C4C
13	T4	202	CYC	C2D-C1D-CHD-C4C
13	U4	1001	CYC	ND-C4D-CHA-C1A
13	U4	1001	CYC	C3D-C4D-CHA-C1A
13	U4	1001	CYC	NA-C4A-CHB-C1B
13	U4	1001	CYC	ND-C1D-CHD-C4C
13	U4	1001	CYC	C2D-C1D-CHD-C4C
13	V4	201	CYC	C3A-C2A-CAA-CBA
13	V4	201	CYC	ND-C1D-CHD-C4C
13	V4	201	CYC	C2D-C1D-CHD-C4C
13	V4	201	CYC	C2D-C3D-CAD-CBD
13	V4	201	CYC	C4D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
13	V4	202	CYC	ND-C4D-CHA-C1A
13	V4	202	CYC	C3D-C4D-CHA-C1A
13	V4	202	CYC	NA-C4A-CHB-C1B
13	V4	202	CYC	ND-C1D-CHD-C4C
13	V4	202	CYC	C2D-C1D-CHD-C4C
13	W4	1001	CYC	ND-C4D-CHA-C1A
13	W4	1001	CYC	C3D-C4D-CHA-C1A
13	W4	1001	CYC	NA-C4A-CHB-C1B
13	W4	1001	CYC	ND-C1D-CHD-C4C
13	W4	1001	CYC	C2D-C1D-CHD-C4C
13	X4	201	CYC	ND-C1D-CHD-C4C
13	X4	201	CYC	C2D-C1D-CHD-C4C
13	X4	202	CYC	C3A-C2A-CAA-CBA
13	X4	202	CYC	ND-C1D-CHD-C4C
13	X4	202	CYC	C2D-C1D-CHD-C4C
13	X4	202	CYC	C2D-C3D-CAD-CBD
13	X4	202	CYC	C4D-C3D-CAD-CBD
13	Y4	201	CYC	ND-C4D-CHA-C1A
13	Y4	201	CYC	C3D-C4D-CHA-C1A
13	Y4	201	CYC	NA-C4A-CHB-C1B
13	Y4	201	CYC	ND-C1D-CHD-C4C
13	Y4	201	CYC	C2D-C1D-CHD-C4C
13	Z4	201	CYC	C3A-C2A-CAA-CBA
13	Z4	201	CYC	ND-C1D-CHD-C4C
13	Z4	201	CYC	C2D-C1D-CHD-C4C
13	Z4	201	CYC	C2D-C3D-CAD-CBD
13	Z4	201	CYC	C4D-C3D-CAD-CBD
13	Z4	202	CYC	ND-C4D-CHA-C1A
13	Z4	202	CYC	C3D-C4D-CHA-C1A
13	Z4	202	CYC	NA-C4A-CHB-C1B
13	Z4	202	CYC	ND-C1D-CHD-C4C
13	Z4	202	CYC	C2D-C1D-CHD-C4C
13	A5	301	CYC	ND-C1D-CHD-C4C
13	A5	301	CYC	C2D-C1D-CHD-C4C
13	A5	302	CYC	ND-C1D-CHD-C4C
13	A5	302	CYC	C2D-C1D-CHD-C4C
13	A5	303	CYC	ND-C1D-CHD-C4C
13	A5	303	CYC	C2D-C1D-CHD-C4C
13	A5	304	CYC	ND-C1D-CHD-C4C
13	A5	304	CYC	C2D-C1D-CHD-C4C
13	B5	1001	CYC	ND-C4D-CHA-C1A
13	B5	1001	CYC	C3D-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
13	B5	1001	CYC	NA-C4A-CHB-C1B
13	B5	1001	CYC	ND-C1D-CHD-C4C
13	B5	1001	CYC	C2D-C1D-CHD-C4C
13	C5	201	CYC	C3A-C2A-CAA-CBA
13	C5	201	CYC	ND-C1D-CHD-C4C
13	C5	201	CYC	C2D-C1D-CHD-C4C
13	C5	201	CYC	C2D-C3D-CAD-CBD
13	C5	201	CYC	C4D-C3D-CAD-CBD
13	D5	1001	CYC	ND-C4D-CHA-C1A
13	D5	1001	CYC	C3D-C4D-CHA-C1A
13	D5	1001	CYC	NA-C4A-CHB-C1B
13	D5	1001	CYC	ND-C1D-CHD-C4C
13	D5	1001	CYC	C2D-C1D-CHD-C4C
13	E5	201	CYC	C3A-C2A-CAA-CBA
13	E5	201	CYC	ND-C1D-CHD-C4C
13	E5	201	CYC	C2D-C1D-CHD-C4C
13	E5	201	CYC	C2D-C3D-CAD-CBD
13	E5	201	CYC	C4D-C3D-CAD-CBD
13	E5	202	CYC	ND-C4D-CHA-C1A
13	E5	202	CYC	C3D-C4D-CHA-C1A
13	E5	202	CYC	NA-C4A-CHB-C1B
13	E5	202	CYC	ND-C1D-CHD-C4C
13	E5	202	CYC	C2D-C1D-CHD-C4C
13	G5	201	CYC	C3A-C2A-CAA-CBA
13	G5	201	CYC	ND-C1D-CHD-C4C
13	G5	201	CYC	C2D-C1D-CHD-C4C
13	G5	201	CYC	C2D-C3D-CAD-CBD
13	G5	201	CYC	C4D-C3D-CAD-CBD
13	I5	201	CYC	ND-C1D-CHD-C4C
13	I5	201	CYC	C2D-C1D-CHD-C4C
13	I5	202	CYC	C3A-C2A-CAA-CBA
13	I5	202	CYC	ND-C1D-CHD-C4C
13	I5	202	CYC	C2D-C1D-CHD-C4C
13	I5	202	CYC	C2D-C3D-CAD-CBD
13	I5	202	CYC	C4D-C3D-CAD-CBD
13	J5	1001	CYC	ND-C4D-CHA-C1A
13	J5	1001	CYC	C3D-C4D-CHA-C1A
13	J5	1001	CYC	NA-C4A-CHB-C1B
13	J5	1001	CYC	ND-C1D-CHD-C4C
13	J5	1001	CYC	C2D-C1D-CHD-C4C
13	K5	201	CYC	C3A-C2A-CAA-CBA
13	K5	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	K5	201	CYC	C2D-C1D-CHD-C4C
13	K5	201	CYC	C2D-C3D-CAD-CBD
13	K5	201	CYC	C4D-C3D-CAD-CBD
13	L5	201	CYC	ND-C4D-CHA-C1A
13	L5	201	CYC	C3D-C4D-CHA-C1A
13	L5	201	CYC	NA-C4A-CHB-C1B
13	L5	201	CYC	ND-C1D-CHD-C4C
13	L5	201	CYC	C2D-C1D-CHD-C4C
13	M5	1001	CYC	ND-C4D-CHA-C1A
13	M5	1001	CYC	C3D-C4D-CHA-C1A
13	M5	1001	CYC	NA-C4A-CHB-C1B
13	M5	1001	CYC	ND-C1D-CHD-C4C
13	M5	1001	CYC	C2D-C1D-CHD-C4C
13	M5	1002	CYC	C3A-C2A-CAA-CBA
13	M5	1002	CYC	ND-C1D-CHD-C4C
13	M5	1002	CYC	C2D-C1D-CHD-C4C
13	M5	1003	CYC	C3A-C2A-CAA-CBA
13	M5	1003	CYC	ND-C1D-CHD-C4C
13	M5	1003	CYC	C2D-C1D-CHD-C4C
13	M5	1003	CYC	C2D-C3D-CAD-CBD
13	M5	1003	CYC	C4D-C3D-CAD-CBD
13	N5	301	CYC	ND-C1D-CHD-C4C
13	N5	301	CYC	C2D-C1D-CHD-C4C
13	O5	1001	CYC	ND-C4D-CHA-C1A
13	O5	1001	CYC	C3D-C4D-CHA-C1A
13	O5	1001	CYC	NA-C4A-CHB-C1B
13	O5	1001	CYC	ND-C1D-CHD-C4C
13	O5	1001	CYC	C2D-C1D-CHD-C4C
13	P5	201	CYC	NA-C4A-CHB-C1B
13	P5	201	CYC	ND-C1D-CHD-C4C
13	P5	201	CYC	C2D-C1D-CHD-C4C
13	P5	202	CYC	C3A-C2A-CAA-CBA
13	P5	202	CYC	ND-C1D-CHD-C4C
13	P5	202	CYC	C2D-C1D-CHD-C4C
13	P5	202	CYC	C2D-C3D-CAD-CBD
13	P5	202	CYC	C4D-C3D-CAD-CBD
13	P5	203	CYC	ND-C4D-CHA-C1A
13	P5	203	CYC	C3D-C4D-CHA-C1A
13	P5	203	CYC	NA-C4A-CHB-C1B
13	P5	203	CYC	ND-C1D-CHD-C4C
13	P5	203	CYC	C2D-C1D-CHD-C4C
13	R5	201	CYC	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	R5	201	CYC	ND-C1D-CHD-C4C
13	R5	201	CYC	C2D-C1D-CHD-C4C
13	R5	201	CYC	C2D-C3D-CAD-CBD
13	R5	201	CYC	C4D-C3D-CAD-CBD
13	S5	1001	CYC	ND-C4D-CHA-C1A
13	S5	1001	CYC	C3D-C4D-CHA-C1A
13	S5	1001	CYC	NA-C4A-CHB-C1B
13	S5	1001	CYC	ND-C1D-CHD-C4C
13	S5	1001	CYC	C2D-C1D-CHD-C4C
13	T5	201	CYC	ND-C1D-CHD-C4C
13	T5	201	CYC	C2D-C1D-CHD-C4C
13	T5	202	CYC	C3A-C2A-CAA-CBA
13	T5	202	CYC	ND-C1D-CHD-C4C
13	T5	202	CYC	C2D-C1D-CHD-C4C
13	T5	202	CYC	C2D-C3D-CAD-CBD
13	T5	202	CYC	C4D-C3D-CAD-CBD
13	U5	1001	CYC	ND-C4D-CHA-C1A
13	U5	1001	CYC	C3D-C4D-CHA-C1A
13	U5	1001	CYC	NA-C4A-CHB-C1B
13	U5	1001	CYC	ND-C1D-CHD-C4C
13	U5	1001	CYC	C2D-C1D-CHD-C4C
13	V5	201	CYC	ND-C1D-CHD-C4C
13	V5	201	CYC	C2D-C1D-CHD-C4C
13	V5	202	CYC	C3A-C2A-CAA-CBA
13	V5	202	CYC	ND-C1D-CHD-C4C
13	V5	202	CYC	C2D-C1D-CHD-C4C
13	V5	202	CYC	C2D-C3D-CAD-CBD
13	V5	202	CYC	C4D-C3D-CAD-CBD
13	W5	1001	CYC	ND-C4D-CHA-C1A
13	W5	1001	CYC	C3D-C4D-CHA-C1A
13	W5	1001	CYC	NA-C4A-CHB-C1B
13	W5	1001	CYC	ND-C1D-CHD-C4C
13	W5	1001	CYC	C2D-C1D-CHD-C4C
13	X5	201	CYC	ND-C1D-CHD-C4C
13	X5	201	CYC	C2D-C1D-CHD-C4C
13	X5	202	CYC	C3A-C2A-CAA-CBA
13	X5	202	CYC	ND-C1D-CHD-C4C
13	X5	202	CYC	C2D-C1D-CHD-C4C
13	X5	202	CYC	C2D-C3D-CAD-CBD
13	X5	202	CYC	C4D-C3D-CAD-CBD
13	Y5	201	CYC	ND-C4D-CHA-C1A
13	Y5	201	CYC	C3D-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
13	Y5	201	CYC	NA-C4A-CHB-C1B
13	Y5	201	CYC	ND-C1D-CHD-C4C
13	Y5	201	CYC	C2D-C1D-CHD-C4C
13	Z5	201	CYC	ND-C1D-CHD-C4C
13	Z5	201	CYC	C2D-C1D-CHD-C4C
13	Z5	202	CYC	C3A-C2A-CAA-CBA
13	Z5	202	CYC	ND-C1D-CHD-C4C
13	Z5	202	CYC	C2D-C1D-CHD-C4C
13	Z5	202	CYC	C2D-C3D-CAD-CBD
13	Z5	202	CYC	C4D-C3D-CAD-CBD
13	B6	1001	CYC	ND-C4D-CHA-C1A
13	B6	1001	CYC	C3D-C4D-CHA-C1A
13	B6	1001	CYC	NA-C4A-CHB-C1B
13	B6	1001	CYC	ND-C1D-CHD-C4C
13	B6	1001	CYC	C2D-C1D-CHD-C4C
13	C6	201	CYC	ND-C4D-CHA-C1A
13	C6	201	CYC	C3D-C4D-CHA-C1A
13	C6	201	CYC	NA-C4A-CHB-C1B
13	C6	201	CYC	ND-C1D-CHD-C4C
13	C6	201	CYC	C2D-C1D-CHD-C4C
13	C6	202	CYC	C3A-C2A-CAA-CBA
13	C6	202	CYC	ND-C1D-CHD-C4C
13	C6	202	CYC	C2D-C1D-CHD-C4C
13	C6	202	CYC	C2D-C3D-CAD-CBD
13	C6	202	CYC	C4D-C3D-CAD-CBD
13	D6	1001	CYC	ND-C4D-CHA-C1A
13	D6	1001	CYC	C3D-C4D-CHA-C1A
13	D6	1001	CYC	NA-C4A-CHB-C1B
13	D6	1001	CYC	ND-C1D-CHD-C4C
13	D6	1001	CYC	C2D-C1D-CHD-C4C
13	E6	201	CYC	ND-C1D-CHD-C4C
13	E6	201	CYC	C2D-C1D-CHD-C4C
13	E6	202	CYC	C3A-C2A-CAA-CBA
13	E6	202	CYC	ND-C1D-CHD-C4C
13	E6	202	CYC	C2D-C1D-CHD-C4C
13	E6	202	CYC	C2D-C3D-CAD-CBD
13	E6	202	CYC	C4D-C3D-CAD-CBD
13	F6	1001	CYC	ND-C4D-CHA-C1A
13	F6	1001	CYC	C3D-C4D-CHA-C1A
13	F6	1001	CYC	NA-C4A-CHB-C1B
13	F6	1001	CYC	ND-C1D-CHD-C4C
13	F6	1001	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	G6	201	CYC	C3A-C2A-CAA-CBA
13	G6	201	CYC	ND-C1D-CHD-C4C
13	G6	201	CYC	C2D-C1D-CHD-C4C
13	G6	201	CYC	C2D-C3D-CAD-CBD
13	G6	201	CYC	C4D-C3D-CAD-CBD
13	G6	202	CYC	ND-C4D-CHA-C1A
13	G6	202	CYC	C3D-C4D-CHA-C1A
13	G6	202	CYC	NA-C4A-CHB-C1B
13	G6	202	CYC	ND-C1D-CHD-C4C
13	G6	202	CYC	C2D-C1D-CHD-C4C
13	H6	1001	CYC	ND-C4D-CHA-C1A
13	H6	1001	CYC	C3D-C4D-CHA-C1A
13	H6	1001	CYC	NA-C4A-CHB-C1B
13	H6	1001	CYC	ND-C1D-CHD-C4C
13	H6	1001	CYC	C2D-C1D-CHD-C4C
13	I6	201	CYC	ND-C1D-CHD-C4C
13	I6	201	CYC	C2D-C1D-CHD-C4C
13	I6	202	CYC	C3A-C2A-CAA-CBA
13	I6	202	CYC	ND-C1D-CHD-C4C
13	I6	202	CYC	C2D-C1D-CHD-C4C
13	I6	202	CYC	C2D-C3D-CAD-CBD
13	I6	202	CYC	C4D-C3D-CAD-CBD
13	J6	1001	CYC	ND-C4D-CHA-C1A
13	J6	1001	CYC	C3D-C4D-CHA-C1A
13	J6	1001	CYC	NA-C4A-CHB-C1B
13	J6	1001	CYC	ND-C1D-CHD-C4C
13	J6	1001	CYC	C2D-C1D-CHD-C4C
13	K6	201	CYC	C3A-C2A-CAA-CBA
13	K6	201	CYC	ND-C1D-CHD-C4C
13	K6	201	CYC	C2D-C1D-CHD-C4C
13	K6	201	CYC	C2D-C3D-CAD-CBD
13	K6	201	CYC	C4D-C3D-CAD-CBD
13	K6	202	CYC	C3A-C2A-CAA-CBA
13	K6	202	CYC	ND-C1D-CHD-C4C
13	K6	202	CYC	C2D-C1D-CHD-C4C
13	K6	202	CYC	C2D-C3D-CAD-CBD
13	K6	202	CYC	C4D-C3D-CAD-CBD
13	L6	201	CYC	ND-C4D-CHA-C1A
13	L6	201	CYC	C3D-C4D-CHA-C1A
13	L6	201	CYC	NA-C4A-CHB-C1B
13	L6	201	CYC	ND-C1D-CHD-C4C
13	L6	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	M6	201	CYC	C3A-C2A-CAA-CBA
13	M6	201	CYC	ND-C1D-CHD-C4C
13	M6	201	CYC	C2D-C1D-CHD-C4C
13	M6	201	CYC	C2D-C3D-CAD-CBD
13	M6	201	CYC	C4D-C3D-CAD-CBD
13	N6	301	CYC	C3A-C2A-CAA-CBA
13	N6	301	CYC	ND-C1D-CHD-C4C
13	N6	301	CYC	C2D-C1D-CHD-C4C
13	N6	302	CYC	ND-C4D-CHA-C1A
13	N6	302	CYC	C3D-C4D-CHA-C1A
13	N6	302	CYC	NA-C4A-CHB-C1B
13	N6	302	CYC	ND-C1D-CHD-C4C
13	N6	302	CYC	C2D-C1D-CHD-C4C
13	O6	1001	CYC	ND-C4D-CHA-C1A
13	O6	1001	CYC	C3D-C4D-CHA-C1A
13	O6	1001	CYC	NA-C4A-CHB-C1B
13	O6	1001	CYC	ND-C1D-CHD-C4C
13	O6	1001	CYC	C2D-C1D-CHD-C4C
13	P6	201	CYC	NA-C4A-CHB-C1B
13	P6	201	CYC	ND-C1D-CHD-C4C
13	P6	201	CYC	C2D-C1D-CHD-C4C
13	Q6	201	CYC	ND-C4D-CHA-C1A
13	Q6	201	CYC	C3D-C4D-CHA-C1A
13	Q6	201	CYC	NA-C4A-CHB-C1B
13	Q6	201	CYC	ND-C1D-CHD-C4C
13	Q6	201	CYC	C2D-C1D-CHD-C4C
13	R6	1001	CYC	ND-C4D-CHA-C1A
13	R6	1001	CYC	C3D-C4D-CHA-C1A
13	R6	1001	CYC	NA-C4A-CHB-C1B
13	R6	1001	CYC	ND-C1D-CHD-C4C
13	R6	1001	CYC	C2D-C1D-CHD-C4C
13	S6	1001	CYC	ND-C4D-CHA-C1A
13	S6	1001	CYC	C3D-C4D-CHA-C1A
13	S6	1001	CYC	NA-C4A-CHB-C1B
13	S6	1001	CYC	ND-C1D-CHD-C4C
13	S6	1001	CYC	C2D-C1D-CHD-C4C
13	T6	201	CYC	C3A-C2A-CAA-CBA
13	T6	201	CYC	ND-C1D-CHD-C4C
13	T6	201	CYC	C2D-C1D-CHD-C4C
13	T6	201	CYC	C2D-C3D-CAD-CBD
13	T6	201	CYC	C4D-C3D-CAD-CBD
13	U6	201	CYC	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	U6	201	CYC	ND-C1D-CHD-C4C
13	U6	201	CYC	C2D-C1D-CHD-C4C
13	U6	201	CYC	C2D-C3D-CAD-CBD
13	U6	201	CYC	C4D-C3D-CAD-CBD
13	U6	202	CYC	ND-C4D-CHA-C1A
13	U6	202	CYC	C3D-C4D-CHA-C1A
13	U6	202	CYC	NA-C4A-CHB-C1B
13	U6	202	CYC	ND-C1D-CHD-C4C
13	U6	202	CYC	C2D-C1D-CHD-C4C
13	V6	201	CYC	C3A-C2A-CAA-CBA
13	V6	201	CYC	ND-C1D-CHD-C4C
13	V6	201	CYC	C2D-C1D-CHD-C4C
13	V6	201	CYC	C2D-C3D-CAD-CBD
13	V6	201	CYC	C4D-C3D-CAD-CBD
13	V6	202	CYC	ND-C4D-CHA-C1A
13	V6	202	CYC	C3D-C4D-CHA-C1A
13	V6	202	CYC	NA-C4A-CHB-C1B
13	V6	202	CYC	ND-C1D-CHD-C4C
13	V6	202	CYC	C2D-C1D-CHD-C4C
13	W6	201	CYC	C3A-C2A-CAA-CBA
13	W6	201	CYC	ND-C1D-CHD-C4C
13	W6	201	CYC	C2D-C1D-CHD-C4C
13	W6	201	CYC	C2D-C3D-CAD-CBD
13	W6	201	CYC	C4D-C3D-CAD-CBD
13	W6	202	CYC	ND-C4D-CHA-C1A
13	W6	202	CYC	C3D-C4D-CHA-C1A
13	W6	202	CYC	NA-C4A-CHB-C1B
13	W6	202	CYC	ND-C1D-CHD-C4C
13	W6	202	CYC	C2D-C1D-CHD-C4C
13	X6	201	CYC	ND-C1D-CHD-C4C
13	X6	201	CYC	C2D-C1D-CHD-C4C
13	X6	202	CYC	C3A-C2A-CAA-CBA
13	X6	202	CYC	ND-C1D-CHD-C4C
13	X6	202	CYC	C2D-C1D-CHD-C4C
13	X6	202	CYC	C2D-C3D-CAD-CBD
13	X6	202	CYC	C4D-C3D-CAD-CBD
13	Y6	201	CYC	ND-C4D-CHA-C1A
13	Y6	201	CYC	C3D-C4D-CHA-C1A
13	Y6	201	CYC	NA-C4A-CHB-C1B
13	Y6	201	CYC	ND-C1D-CHD-C4C
13	Y6	201	CYC	C2D-C1D-CHD-C4C
13	Z6	201	CYC	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	Z6	201	CYC	ND-C1D-CHD-C4C
13	Z6	201	CYC	C2D-C1D-CHD-C4C
13	Z6	201	CYC	C2D-C3D-CAD-CBD
13	Z6	201	CYC	C4D-C3D-CAD-CBD
13	Z6	202	CYC	ND-C4D-CHA-C1A
13	Z6	202	CYC	C3D-C4D-CHA-C1A
13	Z6	202	CYC	NA-C4A-CHB-C1B
13	Z6	202	CYC	ND-C1D-CHD-C4C
13	Z6	202	CYC	C2D-C1D-CHD-C4C
13	A7	301	CYC	ND-C4D-CHA-C1A
13	A7	301	CYC	C3D-C4D-CHA-C1A
13	A7	301	CYC	NA-C4A-CHB-C1B
13	A7	301	CYC	ND-C1D-CHD-C4C
13	A7	301	CYC	C2D-C1D-CHD-C4C
13	B7	1001	CYC	ND-C4D-CHA-C1A
13	B7	1001	CYC	C3D-C4D-CHA-C1A
13	B7	1001	CYC	NA-C4A-CHB-C1B
13	B7	1001	CYC	ND-C1D-CHD-C4C
13	B7	1001	CYC	C2D-C1D-CHD-C4C
13	C7	201	CYC	C3A-C2A-CAA-CBA
13	C7	201	CYC	ND-C1D-CHD-C4C
13	C7	201	CYC	C2D-C1D-CHD-C4C
13	C7	201	CYC	C2D-C3D-CAD-CBD
13	C7	201	CYC	C4D-C3D-CAD-CBD
13	D7	1001	CYC	ND-C4D-CHA-C1A
13	D7	1001	CYC	C3D-C4D-CHA-C1A
13	D7	1001	CYC	NA-C4A-CHB-C1B
13	D7	1001	CYC	ND-C1D-CHD-C4C
13	D7	1001	CYC	C2D-C1D-CHD-C4C
13	E7	201	CYC	ND-C1D-CHD-C4C
13	E7	201	CYC	C2D-C1D-CHD-C4C
13	E7	202	CYC	C3A-C2A-CAA-CBA
13	E7	202	CYC	ND-C1D-CHD-C4C
13	E7	202	CYC	C2D-C1D-CHD-C4C
13	E7	202	CYC	C2D-C3D-CAD-CBD
13	E7	202	CYC	C4D-C3D-CAD-CBD
13	F7	1001	CYC	ND-C4D-CHA-C1A
13	F7	1001	CYC	C3D-C4D-CHA-C1A
13	F7	1001	CYC	NA-C4A-CHB-C1B
13	F7	1001	CYC	ND-C1D-CHD-C4C
13	F7	1001	CYC	C2D-C1D-CHD-C4C
13	G7	201	CYC	ND-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
13	G7	201	CYC	C3D-C4D-CHA-C1A
13	G7	201	CYC	NA-C4A-CHB-C1B
13	G7	201	CYC	ND-C1D-CHD-C4C
13	G7	201	CYC	C2D-C1D-CHD-C4C
13	G7	202	CYC	C3A-C2A-CAA-CBA
13	G7	202	CYC	ND-C1D-CHD-C4C
13	G7	202	CYC	C2D-C1D-CHD-C4C
13	G7	202	CYC	C2D-C3D-CAD-CBD
13	G7	202	CYC	C4D-C3D-CAD-CBD
13	H7	1001	CYC	ND-C4D-CHA-C1A
13	H7	1001	CYC	C3D-C4D-CHA-C1A
13	H7	1001	CYC	NA-C4A-CHB-C1B
13	H7	1001	CYC	ND-C1D-CHD-C4C
13	H7	1001	CYC	C2D-C1D-CHD-C4C
13	I7	201	CYC	ND-C1D-CHD-C4C
13	I7	201	CYC	C2D-C1D-CHD-C4C
13	I7	202	CYC	C3A-C2A-CAA-CBA
13	I7	202	CYC	ND-C1D-CHD-C4C
13	I7	202	CYC	C2D-C1D-CHD-C4C
13	I7	202	CYC	C2D-C3D-CAD-CBD
13	I7	202	CYC	C4D-C3D-CAD-CBD
13	J7	1001	CYC	ND-C4D-CHA-C1A
13	J7	1001	CYC	C3D-C4D-CHA-C1A
13	J7	1001	CYC	NA-C4A-CHB-C1B
13	J7	1001	CYC	ND-C1D-CHD-C4C
13	J7	1001	CYC	C2D-C1D-CHD-C4C
13	K7	201	CYC	C3A-C2A-CAA-CBA
13	K7	201	CYC	ND-C1D-CHD-C4C
13	K7	201	CYC	C2D-C1D-CHD-C4C
13	K7	201	CYC	C2D-C3D-CAD-CBD
13	K7	201	CYC	C4D-C3D-CAD-CBD
13	K7	202	CYC	C3A-C2A-CAA-CBA
13	K7	202	CYC	ND-C1D-CHD-C4C
13	K7	202	CYC	C2D-C1D-CHD-C4C
13	K7	202	CYC	C2D-C3D-CAD-CBD
13	K7	202	CYC	C4D-C3D-CAD-CBD
13	L7	201	CYC	ND-C4D-CHA-C1A
13	L7	201	CYC	C3D-C4D-CHA-C1A
13	L7	201	CYC	NA-C4A-CHB-C1B
13	L7	201	CYC	ND-C1D-CHD-C4C
13	L7	201	CYC	C2D-C1D-CHD-C4C
13	M7	201	CYC	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	M7	201	CYC	ND-C1D-CHD-C4C
13	M7	201	CYC	C2D-C1D-CHD-C4C
13	M7	201	CYC	C2D-C3D-CAD-CBD
13	M7	201	CYC	C4D-C3D-CAD-CBD
13	N7	301	CYC	C3A-C2A-CAA-CBA
13	N7	301	CYC	ND-C1D-CHD-C4C
13	N7	301	CYC	C2D-C1D-CHD-C4C
13	A8	1001	CYC	C2C-C3C-CAC-CBC
13	A8	1001	CYC	C4C-C3C-CAC-CBC
13	A8	1001	CYC	ND-C1D-CHD-C4C
13	A8	1001	CYC	C2D-C1D-CHD-C4C
13	B8	1001	CYC	ND-C1D-CHD-C4C
13	B8	1001	CYC	C2D-C1D-CHD-C4C
13	C8	1001	CYC	C2C-C3C-CAC-CBC
13	C8	1001	CYC	C4C-C3C-CAC-CBC
13	C8	1001	CYC	ND-C1D-CHD-C4C
13	C8	1001	CYC	C2D-C1D-CHD-C4C
13	D8	1001	CYC	ND-C1D-CHD-C4C
13	D8	1001	CYC	C2D-C1D-CHD-C4C
13	E8	1001	CYC	C2C-C3C-CAC-CBC
13	E8	1001	CYC	C4C-C3C-CAC-CBC
13	E8	1001	CYC	ND-C1D-CHD-C4C
13	E8	1001	CYC	C2D-C1D-CHD-C4C
13	F8	1001	CYC	ND-C1D-CHD-C4C
13	F8	1001	CYC	C2D-C1D-CHD-C4C
13	H8	1001	CYC	C2C-C3C-CAC-CBC
13	H8	1001	CYC	C4C-C3C-CAC-CBC
13	H8	1001	CYC	ND-C1D-CHD-C4C
13	H8	1001	CYC	C2D-C1D-CHD-C4C
13	I8	1001	CYC	ND-C1D-CHD-C4C
13	I8	1001	CYC	C2D-C1D-CHD-C4C
13	J8	1001	CYC	C2C-C3C-CAC-CBC
13	J8	1001	CYC	C4C-C3C-CAC-CBC
13	J8	1001	CYC	ND-C1D-CHD-C4C
13	J8	1001	CYC	C2D-C1D-CHD-C4C
13	K8	1001	CYC	ND-C1D-CHD-C4C
13	K8	1001	CYC	C2D-C1D-CHD-C4C
13	L8	1001	CYC	C2C-C3C-CAC-CBC
13	L8	1001	CYC	C4C-C3C-CAC-CBC
13	L8	1001	CYC	ND-C1D-CHD-C4C
13	L8	1001	CYC	C2D-C1D-CHD-C4C
13	M8	1001	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	M8	1001	CYC	C2D-C1D-CHD-C4C
13	O8	1001	CYC	C2C-C3C-CAC-CBC
13	O8	1001	CYC	C4C-C3C-CAC-CBC
13	O8	1001	CYC	ND-C1D-CHD-C4C
13	O8	1001	CYC	C2D-C1D-CHD-C4C
13	P8	1001	CYC	ND-C1D-CHD-C4C
13	P8	1001	CYC	C2D-C1D-CHD-C4C
13	Q8	1001	CYC	C2C-C3C-CAC-CBC
13	Q8	1001	CYC	C4C-C3C-CAC-CBC
13	Q8	1001	CYC	ND-C1D-CHD-C4C
13	Q8	1001	CYC	C2D-C1D-CHD-C4C
13	R8	1001	CYC	ND-C1D-CHD-C4C
13	R8	1001	CYC	C2D-C1D-CHD-C4C
13	S8	1001	CYC	C2C-C3C-CAC-CBC
13	S8	1001	CYC	C4C-C3C-CAC-CBC
13	S8	1001	CYC	ND-C1D-CHD-C4C
13	S8	1001	CYC	C2D-C1D-CHD-C4C
13	T8	1001	CYC	ND-C1D-CHD-C4C
13	T8	1001	CYC	C2D-C1D-CHD-C4C
13	V8	1001	CYC	C2C-C3C-CAC-CBC
13	V8	1001	CYC	C4C-C3C-CAC-CBC
13	V8	1001	CYC	ND-C1D-CHD-C4C
13	V8	1001	CYC	C2D-C1D-CHD-C4C
13	W8	1001	CYC	ND-C1D-CHD-C4C
13	W8	1001	CYC	C2D-C1D-CHD-C4C
13	X8	1001	CYC	C2C-C3C-CAC-CBC
13	X8	1001	CYC	C4C-C3C-CAC-CBC
13	X8	1001	CYC	ND-C1D-CHD-C4C
13	X8	1001	CYC	C2D-C1D-CHD-C4C
13	Y8	1001	CYC	ND-C1D-CHD-C4C
13	Y8	1001	CYC	C2D-C1D-CHD-C4C
13	Z8	1001	CYC	C2C-C3C-CAC-CBC
13	Z8	1001	CYC	C4C-C3C-CAC-CBC
13	Z8	1001	CYC	ND-C1D-CHD-C4C
13	Z8	1001	CYC	C2D-C1D-CHD-C4C
13	b8	1001	CYC	ND-C1D-CHD-C4C
13	b8	1001	CYC	C2D-C1D-CHD-C4C
13	c8	1001	CYC	C2C-C3C-CAC-CBC
13	c8	1001	CYC	C4C-C3C-CAC-CBC
13	c8	1001	CYC	ND-C1D-CHD-C4C
13	c8	1001	CYC	C2D-C1D-CHD-C4C
13	d8	1001	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	d8	1001	CYC	C2D-C1D-CHD-C4C
13	e8	1001	CYC	C2C-C3C-CAC-CBC
13	e8	1001	CYC	C4C-C3C-CAC-CBC
13	e8	1001	CYC	ND-C1D-CHD-C4C
13	e8	1001	CYC	C2D-C1D-CHD-C4C
13	f8	1001	CYC	ND-C1D-CHD-C4C
13	f8	1001	CYC	C2D-C1D-CHD-C4C
13	g8	1001	CYC	C2C-C3C-CAC-CBC
13	g8	1001	CYC	C4C-C3C-CAC-CBC
13	g8	1001	CYC	ND-C1D-CHD-C4C
13	g8	1001	CYC	C2D-C1D-CHD-C4C
13	h8	1001	CYC	ND-C1D-CHD-C4C
13	h8	1001	CYC	C2D-C1D-CHD-C4C
13	j8	1001	CYC	C2C-C3C-CAC-CBC
13	j8	1001	CYC	C4C-C3C-CAC-CBC
13	j8	1001	CYC	ND-C1D-CHD-C4C
13	j8	1001	CYC	C2D-C1D-CHD-C4C
13	k8	1001	CYC	ND-C1D-CHD-C4C
13	k8	1001	CYC	C2D-C1D-CHD-C4C
13	l8	1001	CYC	C2C-C3C-CAC-CBC
13	l8	1001	CYC	C4C-C3C-CAC-CBC
13	l8	1001	CYC	ND-C1D-CHD-C4C
13	l8	1001	CYC	C2D-C1D-CHD-C4C
13	n8	1001	CYC	C2C-C3C-CAC-CBC
13	n8	1001	CYC	C4C-C3C-CAC-CBC
13	n8	1001	CYC	ND-C1D-CHD-C4C
13	n8	1001	CYC	C2D-C1D-CHD-C4C
13	o8	1001	CYC	ND-C1D-CHD-C4C
13	o8	1001	CYC	C2D-C1D-CHD-C4C
13	p8	1001	CYC	C2C-C3C-CAC-CBC
13	p8	1001	CYC	C4C-C3C-CAC-CBC
13	p8	1001	CYC	ND-C1D-CHD-C4C
13	p8	1001	CYC	C2D-C1D-CHD-C4C
13	q8	1001	CYC	ND-C1D-CHD-C4C
13	q8	1001	CYC	C2D-C1D-CHD-C4C
13	r8	1001	CYC	C2C-C3C-CAC-CBC
13	r8	1001	CYC	C4C-C3C-CAC-CBC
13	r8	1001	CYC	ND-C1D-CHD-C4C
13	r8	1001	CYC	C2D-C1D-CHD-C4C
13	s8	1001	CYC	ND-C1D-CHD-C4C
13	s8	1001	CYC	C2D-C1D-CHD-C4C
13	t8	1001	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
13	t8	1001	CYC	C4C-C3C-CAC-CBC
13	t8	1001	CYC	ND-C1D-CHD-C4C
13	t8	1001	CYC	C2D-C1D-CHD-C4C
13	09	1201	CYC	ND-C1D-CHD-C4C
13	09	1201	CYC	C2D-C1D-CHD-C4C
13	19	1201	CYC	ND-C1D-CHD-C4C
13	19	1201	CYC	C2D-C1D-CHD-C4C
13	A9	1001	CYC	NA-C4A-CHB-C1B
13	A9	1001	CYC	C3A-C4A-CHB-C1B
13	A9	1001	CYC	C2C-C3C-CAC-CBC
13	A9	1001	CYC	C4C-C3C-CAC-CBC
13	A9	1001	CYC	ND-C1D-CHD-C4C
13	A9	1001	CYC	C2D-C1D-CHD-C4C
13	C9	1001	CYC	NA-C4A-CHB-C1B
13	C9	1001	CYC	C3A-C4A-CHB-C1B
13	C9	1001	CYC	C2C-C3C-CAC-CBC
13	C9	1001	CYC	C4C-C3C-CAC-CBC
13	C9	1001	CYC	ND-C1D-CHD-C4C
13	C9	1001	CYC	C2D-C1D-CHD-C4C
13	E9	1001	CYC	NA-C4A-CHB-C1B
13	E9	1001	CYC	C3A-C4A-CHB-C1B
13	E9	1001	CYC	C2C-C3C-CAC-CBC
13	E9	1001	CYC	C4C-C3C-CAC-CBC
13	E9	1001	CYC	ND-C1D-CHD-C4C
13	E9	1001	CYC	C2D-C1D-CHD-C4C
13	G9	1001	CYC	NA-C4A-CHB-C1B
13	G9	1001	CYC	C3A-C4A-CHB-C1B
13	G9	1001	CYC	C2C-C3C-CAC-CBC
13	G9	1001	CYC	C4C-C3C-CAC-CBC
13	G9	1001	CYC	ND-C1D-CHD-C4C
13	G9	1001	CYC	C2D-C1D-CHD-C4C
13	I9	1001	CYC	NA-C4A-CHB-C1B
13	I9	1001	CYC	C3A-C4A-CHB-C1B
13	I9	1001	CYC	C2C-C3C-CAC-CBC
13	I9	1001	CYC	C4C-C3C-CAC-CBC
13	I9	1001	CYC	ND-C1D-CHD-C4C
13	I9	1001	CYC	C2D-C1D-CHD-C4C
13	K9	1001	CYC	NA-C4A-CHB-C1B
13	K9	1001	CYC	C3A-C4A-CHB-C1B
13	K9	1001	CYC	C2C-C3C-CAC-CBC
13	K9	1001	CYC	C4C-C3C-CAC-CBC
13	K9	1001	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	K9	1001	CYC	C2D-C1D-CHD-C4C
13	N9	1001	CYC	NA-C4A-CHB-C1B
13	N9	1001	CYC	C3A-C4A-CHB-C1B
13	N9	1001	CYC	C2C-C3C-CAC-CBC
13	N9	1001	CYC	C4C-C3C-CAC-CBC
13	N9	1001	CYC	ND-C1D-CHD-C4C
13	N9	1001	CYC	C2D-C1D-CHD-C4C
13	P9	1001	CYC	NA-C4A-CHB-C1B
13	P9	1001	CYC	C3A-C4A-CHB-C1B
13	P9	1001	CYC	C2C-C3C-CAC-CBC
13	P9	1001	CYC	C4C-C3C-CAC-CBC
13	P9	1001	CYC	ND-C1D-CHD-C4C
13	P9	1001	CYC	C2D-C1D-CHD-C4C
13	Q9	201	CYC	C2C-C3C-CAC-CBC
13	Q9	201	CYC	C4C-C3C-CAC-CBC
13	Q9	201	CYC	ND-C1D-CHD-C4C
13	Q9	201	CYC	C2D-C1D-CHD-C4C
13	R9	1001	CYC	NA-C4A-CHB-C1B
13	R9	1001	CYC	C3A-C4A-CHB-C1B
13	R9	1001	CYC	C2C-C3C-CAC-CBC
13	R9	1001	CYC	C4C-C3C-CAC-CBC
13	R9	1001	CYC	ND-C1D-CHD-C4C
13	R9	1001	CYC	C2D-C1D-CHD-C4C
13	T9	1001	CYC	NA-C4A-CHB-C1B
13	T9	1001	CYC	C3A-C4A-CHB-C1B
13	T9	1001	CYC	C2C-C3C-CAC-CBC
13	T9	1001	CYC	C4C-C3C-CAC-CBC
13	T9	1001	CYC	ND-C1D-CHD-C4C
13	T9	1001	CYC	C2D-C1D-CHD-C4C
13	V9	201	CYC	NA-C4A-CHB-C1B
13	V9	201	CYC	C3A-C4A-CHB-C1B
13	V9	201	CYC	ND-C1D-CHD-C4C
13	V9	201	CYC	C2D-C1D-CHD-C4C
13	X9	1001	CYC	NA-C4A-CHB-C1B
13	X9	1001	CYC	C3A-C4A-CHB-C1B
13	X9	1001	CYC	C2C-C3C-CAC-CBC
13	X9	1001	CYC	C4C-C3C-CAC-CBC
13	X9	1001	CYC	ND-C1D-CHD-C4C
13	X9	1001	CYC	C2D-C1D-CHD-C4C
13	Z9	1001	CYC	NA-C4A-CHB-C1B
13	Z9	1001	CYC	C3A-C4A-CHB-C1B
13	Z9	1001	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
13	Z9	1001	CYC	C4C-C3C-CAC-CBC
13	Z9	1001	CYC	ND-C1D-CHD-C4C
13	Z9	1001	CYC	C2D-C1D-CHD-C4C
13	b9	1001	CYC	NA-C4A-CHB-C1B
13	b9	1001	CYC	C3A-C4A-CHB-C1B
13	b9	1001	CYC	C2C-C3C-CAC-CBC
13	b9	1001	CYC	C4C-C3C-CAC-CBC
13	b9	1001	CYC	ND-C1D-CHD-C4C
13	b9	1001	CYC	C2D-C1D-CHD-C4C
13	d9	1001	CYC	NA-C4A-CHB-C1B
13	d9	1001	CYC	C3A-C4A-CHB-C1B
13	d9	1001	CYC	C2C-C3C-CAC-CBC
13	d9	1001	CYC	C4C-C3C-CAC-CBC
13	d9	1001	CYC	ND-C1D-CHD-C4C
13	d9	1001	CYC	C2D-C1D-CHD-C4C
13	f9	1001	CYC	NA-C4A-CHB-C1B
13	f9	1001	CYC	C3A-C4A-CHB-C1B
13	f9	1001	CYC	C2C-C3C-CAC-CBC
13	f9	1001	CYC	C4C-C3C-CAC-CBC
13	f9	1001	CYC	ND-C1D-CHD-C4C
13	f9	1001	CYC	C2D-C1D-CHD-C4C
13	g9	1001	CYC	ND-C1D-CHD-C4C
13	g9	1001	CYC	C2D-C1D-CHD-C4C
13	i9	1001	CYC	NA-C4A-CHB-C1B
13	i9	1001	CYC	C3A-C4A-CHB-C1B
13	i9	1001	CYC	C2C-C3C-CAC-CBC
13	i9	1001	CYC	C4C-C3C-CAC-CBC
13	i9	1001	CYC	ND-C1D-CHD-C4C
13	i9	1001	CYC	C2D-C1D-CHD-C4C
13	k9	1001	CYC	NA-C4A-CHB-C1B
13	k9	1001	CYC	C3A-C4A-CHB-C1B
13	k9	1001	CYC	C2C-C3C-CAC-CBC
13	k9	1001	CYC	C4C-C3C-CAC-CBC
13	k9	1001	CYC	ND-C1D-CHD-C4C
13	k9	1001	CYC	C2D-C1D-CHD-C4C
13	m9	201	CYC	NA-C4A-CHB-C1B
13	m9	201	CYC	C3A-C4A-CHB-C1B
13	m9	201	CYC	ND-C1D-CHD-C4C
13	m9	201	CYC	C2D-C1D-CHD-C4C
13	o9	1001	CYC	NA-C4A-CHB-C1B
13	o9	1001	CYC	C3A-C4A-CHB-C1B
13	o9	1001	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
13	o9	1001	CYC	C4C-C3C-CAC-CBC
13	o9	1001	CYC	ND-C1D-CHD-C4C
13	o9	1001	CYC	C2D-C1D-CHD-C4C
13	q9	1001	CYC	NA-C4A-CHB-C1B
13	q9	1001	CYC	C3A-C4A-CHB-C1B
13	q9	1001	CYC	C2C-C3C-CAC-CBC
13	q9	1001	CYC	C4C-C3C-CAC-CBC
13	q9	1001	CYC	ND-C1D-CHD-C4C
13	q9	1001	CYC	C2D-C1D-CHD-C4C
13	s9	1001	CYC	NA-C4A-CHB-C1B
13	s9	1001	CYC	C3A-C4A-CHB-C1B
13	s9	1001	CYC	C2C-C3C-CAC-CBC
13	s9	1001	CYC	C4C-C3C-CAC-CBC
13	s9	1001	CYC	ND-C1D-CHD-C4C
13	s9	1001	CYC	C2D-C1D-CHD-C4C
13	u9	1001	CYC	NA-C4A-CHB-C1B
13	u9	1001	CYC	C3A-C4A-CHB-C1B
13	u9	1001	CYC	C2C-C3C-CAC-CBC
13	u9	1001	CYC	C4C-C3C-CAC-CBC
13	u9	1001	CYC	ND-C1D-CHD-C4C
13	u9	1001	CYC	C2D-C1D-CHD-C4C
13	w9	1001	CYC	NA-C4A-CHB-C1B
13	w9	1001	CYC	C3A-C4A-CHB-C1B
13	w9	1001	CYC	C2C-C3C-CAC-CBC
13	w9	1001	CYC	C4C-C3C-CAC-CBC
13	w9	1001	CYC	ND-C1D-CHD-C4C
13	w9	1001	CYC	C2D-C1D-CHD-C4C
13	y9	1001	CYC	NA-C4A-CHB-C1B
13	y9	1001	CYC	C3A-C4A-CHB-C1B
13	y9	1001	CYC	C2C-C3C-CAC-CBC
13	y9	1001	CYC	C4C-C3C-CAC-CBC
13	y9	1001	CYC	ND-C1D-CHD-C4C
13	y9	1001	CYC	C2D-C1D-CHD-C4C
13	AA	301	CYC	ND-C1D-CHD-C4C
13	AA	301	CYC	C2D-C1D-CHD-C4C
13	AA	302	CYC	ND-C1D-CHD-C4C
13	AA	302	CYC	C2D-C1D-CHD-C4C
13	AA	303	CYC	ND-C1D-CHD-C4C
13	AA	303	CYC	C2D-C1D-CHD-C4C
13	AA	304	CYC	ND-C1D-CHD-C4C
13	AA	304	CYC	C2D-C1D-CHD-C4C
13	CA	201	CYC	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	CA	201	CYC	ND-C1D-CHD-C4C
13	CA	201	CYC	C2D-C1D-CHD-C4C
13	CA	201	CYC	C2D-C3D-CAD-CBD
13	CA	201	CYC	C4D-C3D-CAD-CBD
13	DA	1001	CYC	ND-C4D-CHA-C1A
13	DA	1001	CYC	C3D-C4D-CHA-C1A
13	DA	1001	CYC	NA-C4A-CHB-C1B
13	DA	1001	CYC	ND-C1D-CHD-C4C
13	DA	1001	CYC	C2D-C1D-CHD-C4C
13	EA	201	CYC	C3A-C2A-CAA-CBA
13	EA	201	CYC	ND-C1D-CHD-C4C
13	EA	201	CYC	C2D-C1D-CHD-C4C
13	EA	201	CYC	C2D-C3D-CAD-CBD
13	EA	201	CYC	C4D-C3D-CAD-CBD
13	EA	202	CYC	ND-C4D-CHA-C1A
13	EA	202	CYC	C3D-C4D-CHA-C1A
13	EA	202	CYC	NA-C4A-CHB-C1B
13	EA	202	CYC	ND-C1D-CHD-C4C
13	EA	202	CYC	C2D-C1D-CHD-C4C
13	GA	1001	CYC	ND-C4D-CHA-C1A
13	GA	1001	CYC	C3D-C4D-CHA-C1A
13	GA	1001	CYC	NA-C4A-CHB-C1B
13	GA	1001	CYC	ND-C1D-CHD-C4C
13	GA	1001	CYC	C2D-C1D-CHD-C4C
13	GA	1002	CYC	C3A-C2A-CAA-CBA
13	GA	1002	CYC	ND-C1D-CHD-C4C
13	GA	1002	CYC	C2D-C1D-CHD-C4C
13	GA	1002	CYC	C2D-C3D-CAD-CBD
13	GA	1002	CYC	C4D-C3D-CAD-CBD
13	IA	201	CYC	ND-C1D-CHD-C4C
13	IA	201	CYC	C2D-C1D-CHD-C4C
13	IA	202	CYC	C3A-C2A-CAA-CBA
13	IA	202	CYC	ND-C1D-CHD-C4C
13	IA	202	CYC	C2D-C1D-CHD-C4C
13	IA	202	CYC	C2D-C3D-CAD-CBD
13	IA	202	CYC	C4D-C3D-CAD-CBD
13	JA	1001	CYC	ND-C4D-CHA-C1A
13	JA	1001	CYC	C3D-C4D-CHA-C1A
13	JA	1001	CYC	NA-C4A-CHB-C1B
13	JA	1001	CYC	ND-C1D-CHD-C4C
13	JA	1001	CYC	C2D-C1D-CHD-C4C
13	KA	201	CYC	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	KA	201	CYC	ND-C1D-CHD-C4C
13	KA	201	CYC	C2D-C1D-CHD-C4C
13	KA	201	CYC	C2D-C3D-CAD-CBD
13	KA	201	CYC	C4D-C3D-CAD-CBD
13	LA	201	CYC	ND-C4D-CHA-C1A
13	LA	201	CYC	C3D-C4D-CHA-C1A
13	LA	201	CYC	NA-C4A-CHB-C1B
13	LA	201	CYC	ND-C1D-CHD-C4C
13	LA	201	CYC	C2D-C1D-CHD-C4C
13	MA	1001	CYC	ND-C4D-CHA-C1A
13	MA	1001	CYC	C3D-C4D-CHA-C1A
13	MA	1001	CYC	NA-C4A-CHB-C1B
13	MA	1001	CYC	ND-C1D-CHD-C4C
13	MA	1001	CYC	C2D-C1D-CHD-C4C
13	MA	1002	CYC	C3A-C2A-CAA-CBA
13	MA	1002	CYC	ND-C1D-CHD-C4C
13	MA	1002	CYC	C2D-C1D-CHD-C4C
13	MA	1003	CYC	C3A-C2A-CAA-CBA
13	MA	1003	CYC	ND-C1D-CHD-C4C
13	MA	1003	CYC	C2D-C1D-CHD-C4C
13	MA	1003	CYC	C2D-C3D-CAD-CBD
13	MA	1003	CYC	C4D-C3D-CAD-CBD
13	NA	301	CYC	ND-C1D-CHD-C4C
13	NA	301	CYC	C2D-C1D-CHD-C4C
13	OA	1001	CYC	ND-C4D-CHA-C1A
13	OA	1001	CYC	C3D-C4D-CHA-C1A
13	OA	1001	CYC	NA-C4A-CHB-C1B
13	OA	1001	CYC	ND-C1D-CHD-C4C
13	OA	1001	CYC	C2D-C1D-CHD-C4C
13	PA	201	CYC	NA-C4A-CHB-C1B
13	PA	201	CYC	ND-C1D-CHD-C4C
13	PA	201	CYC	C2D-C1D-CHD-C4C
13	PA	202	CYC	C3A-C2A-CAA-CBA
13	PA	202	CYC	ND-C1D-CHD-C4C
13	PA	202	CYC	C2D-C1D-CHD-C4C
13	PA	202	CYC	C2D-C3D-CAD-CBD
13	PA	202	CYC	C4D-C3D-CAD-CBD
13	PA	203	CYC	ND-C4D-CHA-C1A
13	PA	203	CYC	C3D-C4D-CHA-C1A
13	PA	203	CYC	NA-C4A-CHB-C1B
13	PA	203	CYC	ND-C1D-CHD-C4C
13	PA	203	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
13	RA	201	CYC	C3A-C2A-CAA-CBA
13	RA	201	CYC	ND-C1D-CHD-C4C
13	RA	201	CYC	C2D-C1D-CHD-C4C
13	RA	201	CYC	C2D-C3D-CAD-CBD
13	RA	201	CYC	C4D-C3D-CAD-CBD
13	SA	1001	CYC	ND-C4D-CHA-C1A
13	SA	1001	CYC	C3D-C4D-CHA-C1A
13	SA	1001	CYC	NA-C4A-CHB-C1B
13	SA	1001	CYC	ND-C1D-CHD-C4C
13	SA	1001	CYC	C2D-C1D-CHD-C4C
13	TA	201	CYC	ND-C1D-CHD-C4C
13	TA	201	CYC	C2D-C1D-CHD-C4C
13	TA	202	CYC	C3A-C2A-CAA-CBA
13	TA	202	CYC	ND-C1D-CHD-C4C
13	TA	202	CYC	C2D-C1D-CHD-C4C
13	TA	202	CYC	C2D-C3D-CAD-CBD
13	TA	202	CYC	C4D-C3D-CAD-CBD
13	UA	1001	CYC	ND-C4D-CHA-C1A
13	UA	1001	CYC	C3D-C4D-CHA-C1A
13	UA	1001	CYC	NA-C4A-CHB-C1B
13	UA	1001	CYC	ND-C1D-CHD-C4C
13	UA	1001	CYC	C2D-C1D-CHD-C4C
13	VA	201	CYC	ND-C1D-CHD-C4C
13	VA	201	CYC	C2D-C1D-CHD-C4C
13	VA	202	CYC	C3A-C2A-CAA-CBA
13	VA	202	CYC	ND-C1D-CHD-C4C
13	VA	202	CYC	C2D-C1D-CHD-C4C
13	VA	202	CYC	C2D-C3D-CAD-CBD
13	VA	202	CYC	C4D-C3D-CAD-CBD
13	WA	1001	CYC	ND-C4D-CHA-C1A
13	WA	1001	CYC	C3D-C4D-CHA-C1A
13	WA	1001	CYC	NA-C4A-CHB-C1B
13	WA	1001	CYC	ND-C1D-CHD-C4C
13	WA	1001	CYC	C2D-C1D-CHD-C4C
13	XA	201	CYC	ND-C1D-CHD-C4C
13	XA	201	CYC	C2D-C1D-CHD-C4C
13	XA	202	CYC	C3A-C2A-CAA-CBA
13	XA	202	CYC	ND-C1D-CHD-C4C
13	XA	202	CYC	C2D-C1D-CHD-C4C
13	XA	202	CYC	C2D-C3D-CAD-CBD
13	XA	202	CYC	C4D-C3D-CAD-CBD
13	YA	201	CYC	ND-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
13	YA	201	CYC	C3D-C4D-CHA-C1A
13	YA	201	CYC	NA-C4A-CHB-C1B
13	YA	201	CYC	ND-C1D-CHD-C4C
13	YA	201	CYC	C2D-C1D-CHD-C4C
13	ZA	201	CYC	ND-C1D-CHD-C4C
13	ZA	201	CYC	C2D-C1D-CHD-C4C
13	ZA	202	CYC	C3A-C2A-CAA-CBA
13	ZA	202	CYC	ND-C1D-CHD-C4C
13	ZA	202	CYC	C2D-C1D-CHD-C4C
13	ZA	202	CYC	C2D-C3D-CAD-CBD
13	ZA	202	CYC	C4D-C3D-CAD-CBD
13	C1	302	CYC	C1A-C2A-CAA-CBA
13	E1	202	CYC	C1A-C2A-CAA-CBA
13	G1	201	CYC	C1A-C2A-CAA-CBA
13	I1	202	CYC	C1A-C2A-CAA-CBA
13	K1	201	CYC	C1A-C2A-CAA-CBA
13	K1	202	CYC	C1A-C2A-CAA-CBA
13	M1	201	CYC	C1A-C2A-CAA-CBA
13	M1	202	CYC	C1A-C2A-CAA-CBA
13	P1	202	CYC	C1A-C2A-CAA-CBA
13	Q1	202	CYC	C1A-C2A-CAA-CBA
13	T1	201	CYC	C1A-C2A-CAA-CBA
13	V1	201	CYC	C1A-C2A-CAA-CBA
13	X1	202	CYC	C1A-C2A-CAA-CBA
13	Z1	201	CYC	C1A-C2A-CAA-CBA
13	C2	202	CYC	C1A-C2A-CAA-CBA
13	E2	202	CYC	C1A-C2A-CAA-CBA
13	G2	201	CYC	C1A-C2A-CAA-CBA
13	I2	202	CYC	C1A-C2A-CAA-CBA
13	K2	201	CYC	C1A-C2A-CAA-CBA
13	K2	202	CYC	C1A-C2A-CAA-CBA
13	M2	201	CYC	C1A-C2A-CAA-CBA
13	N2	301	CYC	C1A-C2A-CAA-CBA
13	T2	201	CYC	C1A-C2A-CAA-CBA
13	U2	201	CYC	C1A-C2A-CAA-CBA
13	V2	201	CYC	C1A-C2A-CAA-CBA
13	W2	201	CYC	C1A-C2A-CAA-CBA
13	W2	203	CYC	C1A-C2A-CAA-CBA
13	Z2	201	CYC	C1A-C2A-CAA-CBA
13	C3	201	CYC	C1A-C2A-CAA-CBA
13	E3	202	CYC	C1A-C2A-CAA-CBA
13	G3	202	CYC	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	I3	202	CYC	C1A-C2A-CAA-CBA
13	K3	201	CYC	C1A-C2A-CAA-CBA
13	K3	202	CYC	C1A-C2A-CAA-CBA
13	M3	201	CYC	C1A-C2A-CAA-CBA
13	N3	301	CYC	C1A-C2A-CAA-CBA
13	C4	302	CYC	C1A-C2A-CAA-CBA
13	E4	202	CYC	C1A-C2A-CAA-CBA
13	G4	201	CYC	C1A-C2A-CAA-CBA
13	I4	202	CYC	C1A-C2A-CAA-CBA
13	K4	201	CYC	C1A-C2A-CAA-CBA
13	K4	202	CYC	C1A-C2A-CAA-CBA
13	M4	201	CYC	C1A-C2A-CAA-CBA
13	M4	202	CYC	C1A-C2A-CAA-CBA
13	P4	202	CYC	C1A-C2A-CAA-CBA
13	Q4	202	CYC	C1A-C2A-CAA-CBA
13	T4	201	CYC	C1A-C2A-CAA-CBA
13	V4	201	CYC	C1A-C2A-CAA-CBA
13	X4	202	CYC	C1A-C2A-CAA-CBA
13	Z4	201	CYC	C1A-C2A-CAA-CBA
13	C5	201	CYC	C1A-C2A-CAA-CBA
13	E5	201	CYC	C1A-C2A-CAA-CBA
13	G5	201	CYC	C1A-C2A-CAA-CBA
13	I5	202	CYC	C1A-C2A-CAA-CBA
13	K5	201	CYC	C1A-C2A-CAA-CBA
13	M5	1002	CYC	C1A-C2A-CAA-CBA
13	M5	1003	CYC	C1A-C2A-CAA-CBA
13	P5	202	CYC	C1A-C2A-CAA-CBA
13	R5	201	CYC	C1A-C2A-CAA-CBA
13	T5	202	CYC	C1A-C2A-CAA-CBA
13	V5	202	CYC	C1A-C2A-CAA-CBA
13	X5	202	CYC	C1A-C2A-CAA-CBA
13	Z5	202	CYC	C1A-C2A-CAA-CBA
13	C6	202	CYC	C1A-C2A-CAA-CBA
13	E6	202	CYC	C1A-C2A-CAA-CBA
13	G6	201	CYC	C1A-C2A-CAA-CBA
13	I6	202	CYC	C1A-C2A-CAA-CBA
13	K6	201	CYC	C1A-C2A-CAA-CBA
13	K6	202	CYC	C1A-C2A-CAA-CBA
13	M6	201	CYC	C1A-C2A-CAA-CBA
13	N6	301	CYC	C1A-C2A-CAA-CBA
13	T6	201	CYC	C1A-C2A-CAA-CBA
13	U6	201	CYC	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	V6	201	CYC	C1A-C2A-CAA-CBA
13	W6	201	CYC	C1A-C2A-CAA-CBA
13	X6	202	CYC	C1A-C2A-CAA-CBA
13	Z6	201	CYC	C1A-C2A-CAA-CBA
13	C7	201	CYC	C1A-C2A-CAA-CBA
13	E7	202	CYC	C1A-C2A-CAA-CBA
13	G7	202	CYC	C1A-C2A-CAA-CBA
13	I7	202	CYC	C1A-C2A-CAA-CBA
13	K7	201	CYC	C1A-C2A-CAA-CBA
13	K7	202	CYC	C1A-C2A-CAA-CBA
13	M7	201	CYC	C1A-C2A-CAA-CBA
13	N7	301	CYC	C1A-C2A-CAA-CBA
13	CA	201	CYC	C1A-C2A-CAA-CBA
13	EA	201	CYC	C1A-C2A-CAA-CBA
13	GA	1002	CYC	C1A-C2A-CAA-CBA
13	IA	202	CYC	C1A-C2A-CAA-CBA
13	KA	201	CYC	C1A-C2A-CAA-CBA
13	MA	1002	CYC	C1A-C2A-CAA-CBA
13	MA	1003	CYC	C1A-C2A-CAA-CBA
13	PA	202	CYC	C1A-C2A-CAA-CBA
13	RA	201	CYC	C1A-C2A-CAA-CBA
13	TA	202	CYC	C1A-C2A-CAA-CBA
13	VA	202	CYC	C1A-C2A-CAA-CBA
13	XA	202	CYC	C1A-C2A-CAA-CBA
13	ZA	202	CYC	C1A-C2A-CAA-CBA
13	B1	1001	CYC	C2A-CAA-CBA-CGA
13	C1	301	CYC	C2A-CAA-CBA-CGA
13	D1	1001	CYC	C2A-CAA-CBA-CGA
13	F1	1001	CYC	C2A-CAA-CBA-CGA
13	G1	202	CYC	C2A-CAA-CBA-CGA
13	H1	1001	CYC	C2A-CAA-CBA-CGA
13	J1	1001	CYC	C2A-CAA-CBA-CGA
13	L1	201	CYC	C2A-CAA-CBA-CGA
13	O1	1001	CYC	C2A-CAA-CBA-CGA
13	Q1	201	CYC	C2A-CAA-CBA-CGA
13	R1	1001	CYC	C2A-CAA-CBA-CGA
13	S1	1001	CYC	C2A-CAA-CBA-CGA
13	T1	202	CYC	C2A-CAA-CBA-CGA
13	U1	1001	CYC	C2A-CAA-CBA-CGA
13	V1	202	CYC	C2A-CAA-CBA-CGA
13	W1	1001	CYC	C2A-CAA-CBA-CGA
13	Y1	201	CYC	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
13	Z1	202	CYC	C2A-CAA-CBA-CGA
13	B2	1001	CYC	C2A-CAA-CBA-CGA
13	C2	201	CYC	C2A-CAA-CBA-CGA
13	D2	1001	CYC	C2A-CAA-CBA-CGA
13	F2	1001	CYC	C2A-CAA-CBA-CGA
13	G2	202	CYC	C2A-CAA-CBA-CGA
13	H2	1001	CYC	C2A-CAA-CBA-CGA
13	J2	1001	CYC	C2A-CAA-CBA-CGA
13	L2	201	CYC	C2A-CAA-CBA-CGA
13	N2	302	CYC	C2A-CAA-CBA-CGA
13	O2	1001	CYC	C2A-CAA-CBA-CGA
13	Q2	201	CYC	C2A-CAA-CBA-CGA
13	R2	1001	CYC	C2A-CAA-CBA-CGA
13	S2	1001	CYC	C2A-CAA-CBA-CGA
13	U2	202	CYC	C2A-CAA-CBA-CGA
13	V2	202	CYC	C2A-CAA-CBA-CGA
13	W2	202	CYC	C2A-CAA-CBA-CGA
13	Y2	201	CYC	C2A-CAA-CBA-CGA
13	Z2	202	CYC	C2A-CAA-CBA-CGA
13	A3	301	CYC	C2A-CAA-CBA-CGA
13	B3	1001	CYC	C2A-CAA-CBA-CGA
13	D3	1001	CYC	C2A-CAA-CBA-CGA
13	F3	1001	CYC	C2A-CAA-CBA-CGA
13	G3	201	CYC	C2A-CAA-CBA-CGA
13	H3	1001	CYC	C2A-CAA-CBA-CGA
13	J3	1001	CYC	C2A-CAA-CBA-CGA
13	L3	201	CYC	C2A-CAA-CBA-CGA
13	B4	1001	CYC	C2A-CAA-CBA-CGA
13	C4	301	CYC	C2A-CAA-CBA-CGA
13	D4	1001	CYC	C2A-CAA-CBA-CGA
13	F4	1001	CYC	C2A-CAA-CBA-CGA
13	G4	202	CYC	C2A-CAA-CBA-CGA
13	H4	1001	CYC	C2A-CAA-CBA-CGA
13	J4	1001	CYC	C2A-CAA-CBA-CGA
13	L4	201	CYC	C2A-CAA-CBA-CGA
13	O4	1001	CYC	C2A-CAA-CBA-CGA
13	Q4	201	CYC	C2A-CAA-CBA-CGA
13	R4	1001	CYC	C2A-CAA-CBA-CGA
13	S4	1001	CYC	C2A-CAA-CBA-CGA
13	T4	202	CYC	C2A-CAA-CBA-CGA
13	U4	1001	CYC	C2A-CAA-CBA-CGA
13	V4	202	CYC	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
13	W4	1001	CYC	C2A-CAA-CBA-CGA
13	Y4	201	CYC	C2A-CAA-CBA-CGA
13	Z4	202	CYC	C2A-CAA-CBA-CGA
13	B5	1001	CYC	C2A-CAA-CBA-CGA
13	D5	1001	CYC	C2A-CAA-CBA-CGA
13	E5	202	CYC	C2A-CAA-CBA-CGA
13	J5	1001	CYC	C2A-CAA-CBA-CGA
13	L5	201	CYC	C2A-CAA-CBA-CGA
13	M5	1001	CYC	C2A-CAA-CBA-CGA
13	O5	1001	CYC	C2A-CAA-CBA-CGA
13	P5	203	CYC	C2A-CAA-CBA-CGA
13	S5	1001	CYC	C2A-CAA-CBA-CGA
13	U5	1001	CYC	C2A-CAA-CBA-CGA
13	W5	1001	CYC	C2A-CAA-CBA-CGA
13	Y5	201	CYC	C2A-CAA-CBA-CGA
13	B6	1001	CYC	C2A-CAA-CBA-CGA
13	C6	201	CYC	C2A-CAA-CBA-CGA
13	D6	1001	CYC	C2A-CAA-CBA-CGA
13	F6	1001	CYC	C2A-CAA-CBA-CGA
13	G6	202	CYC	C2A-CAA-CBA-CGA
13	H6	1001	CYC	C2A-CAA-CBA-CGA
13	J6	1001	CYC	C2A-CAA-CBA-CGA
13	L6	201	CYC	C2A-CAA-CBA-CGA
13	N6	302	CYC	C2A-CAA-CBA-CGA
13	O6	1001	CYC	C2A-CAA-CBA-CGA
13	Q6	201	CYC	C2A-CAA-CBA-CGA
13	R6	1001	CYC	C2A-CAA-CBA-CGA
13	S6	1001	CYC	C2A-CAA-CBA-CGA
13	U6	202	CYC	C2A-CAA-CBA-CGA
13	V6	202	CYC	C2A-CAA-CBA-CGA
13	W6	202	CYC	C2A-CAA-CBA-CGA
13	Y6	201	CYC	C2A-CAA-CBA-CGA
13	Z6	202	CYC	C2A-CAA-CBA-CGA
13	A7	301	CYC	C2A-CAA-CBA-CGA
13	B7	1001	CYC	C2A-CAA-CBA-CGA
13	D7	1001	CYC	C2A-CAA-CBA-CGA
13	F7	1001	CYC	C2A-CAA-CBA-CGA
13	G7	201	CYC	C2A-CAA-CBA-CGA
13	H7	1001	CYC	C2A-CAA-CBA-CGA
13	J7	1001	CYC	C2A-CAA-CBA-CGA
13	L7	201	CYC	C2A-CAA-CBA-CGA
13	09	1203	CYC	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
13	19	1203	CYC	C2A-CAA-CBA-CGA
13	19	1204	CYC	C2A-CAA-CBA-CGA
13	19	1205	CYC	C2A-CAA-CBA-CGA
13	29	1001	CYC	C2A-CAA-CBA-CGA
13	39	1001	CYC	C2A-CAA-CBA-CGA
13	B9	1001	CYC	C2A-CAA-CBA-CGA
13	D9	1001	CYC	C2A-CAA-CBA-CGA
13	F9	1001	CYC	C2A-CAA-CBA-CGA
13	H9	1001	CYC	C2A-CAA-CBA-CGA
13	J9	1001	CYC	C2A-CAA-CBA-CGA
13	L9	1001	CYC	C2A-CAA-CBA-CGA
13	O9	1001	CYC	C2A-CAA-CBA-CGA
13	S9	1001	CYC	C2A-CAA-CBA-CGA
13	U9	1001	CYC	C2A-CAA-CBA-CGA
13	c9	1001	CYC	C2A-CAA-CBA-CGA
13	e9	1001	CYC	C2A-CAA-CBA-CGA
13	j9	1001	CYC	C2A-CAA-CBA-CGA
13	l9	1001	CYC	C2A-CAA-CBA-CGA
13	p9	1001	CYC	C2A-CAA-CBA-CGA
13	r9	1001	CYC	C2A-CAA-CBA-CGA
13	t9	1001	CYC	C2A-CAA-CBA-CGA
13	v9	1001	CYC	C2A-CAA-CBA-CGA
13	x9	1001	CYC	C2A-CAA-CBA-CGA
13	z9	1001	CYC	C2A-CAA-CBA-CGA
13	DA	1001	CYC	C2A-CAA-CBA-CGA
13	EA	202	CYC	C2A-CAA-CBA-CGA
13	GA	1001	CYC	C2A-CAA-CBA-CGA
13	JA	1001	CYC	C2A-CAA-CBA-CGA
13	LA	201	CYC	C2A-CAA-CBA-CGA
13	MA	1001	CYC	C2A-CAA-CBA-CGA
13	OA	1001	CYC	C2A-CAA-CBA-CGA
13	PA	203	CYC	C2A-CAA-CBA-CGA
13	SA	1001	CYC	C2A-CAA-CBA-CGA
13	UA	1001	CYC	C2A-CAA-CBA-CGA
13	WA	1001	CYC	C2A-CAA-CBA-CGA
13	YA	201	CYC	C2A-CAA-CBA-CGA
13	P1	201	CYC	C3A-C4A-CHB-C1B
13	P2	201	CYC	C3A-C4A-CHB-C1B
13	P4	201	CYC	C3A-C4A-CHB-C1B
13	P5	201	CYC	C3A-C4A-CHB-C1B
13	P6	201	CYC	C3A-C4A-CHB-C1B
13	PA	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	I1	201	CYC	C2A-CAA-CBA-CGA
13	X1	201	CYC	C2A-CAA-CBA-CGA
13	I2	201	CYC	C2A-CAA-CBA-CGA
13	X2	201	CYC	C2A-CAA-CBA-CGA
13	I3	201	CYC	C2A-CAA-CBA-CGA
13	I4	201	CYC	C2A-CAA-CBA-CGA
13	X4	201	CYC	C2A-CAA-CBA-CGA
13	A5	303	CYC	C2A-CAA-CBA-CGA
13	A5	304	CYC	C2A-CAA-CBA-CGA
13	I5	201	CYC	C2A-CAA-CBA-CGA
13	N5	301	CYC	C2A-CAA-CBA-CGA
13	T5	201	CYC	C2A-CAA-CBA-CGA
13	V5	201	CYC	C2A-CAA-CBA-CGA
13	X5	201	CYC	C2A-CAA-CBA-CGA
13	Z5	201	CYC	C2A-CAA-CBA-CGA
13	I6	201	CYC	C2A-CAA-CBA-CGA
13	X6	201	CYC	C2A-CAA-CBA-CGA
13	I7	201	CYC	C2A-CAA-CBA-CGA
13	AA	303	CYC	C2A-CAA-CBA-CGA
13	AA	304	CYC	C2A-CAA-CBA-CGA
13	IA	201	CYC	C2A-CAA-CBA-CGA
13	NA	301	CYC	C2A-CAA-CBA-CGA
13	TA	201	CYC	C2A-CAA-CBA-CGA
13	VA	201	CYC	C2A-CAA-CBA-CGA
13	XA	201	CYC	C2A-CAA-CBA-CGA
13	ZA	201	CYC	C2A-CAA-CBA-CGA
13	N2	302	CYC	C2B-C3B-CAB-CBB
13	U4	1001	CYC	C2B-C3B-CAB-CBB
13	B1	1001	CYC	C2B-C3B-CAB-CBB
13	C1	301	CYC	C2B-C3B-CAB-CBB
13	D1	1001	CYC	C2B-C3B-CAB-CBB
13	F1	1001	CYC	C2B-C3B-CAB-CBB
13	G1	202	CYC	C2B-C3B-CAB-CBB
13	H1	1001	CYC	C2B-C3B-CAB-CBB
13	J1	1001	CYC	C2B-C3B-CAB-CBB
13	L1	201	CYC	C2B-C3B-CAB-CBB
13	O1	1001	CYC	C2B-C3B-CAB-CBB
13	Q1	201	CYC	C2B-C3B-CAB-CBB
13	S1	1001	CYC	C2B-C3B-CAB-CBB
13	T1	202	CYC	C2B-C3B-CAB-CBB
13	U1	1001	CYC	C2B-C3B-CAB-CBB
13	V1	202	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
13	W1	1001	CYC	C2B-C3B-CAB-CBB
13	Y1	201	CYC	C2B-C3B-CAB-CBB
13	B2	1001	CYC	C2B-C3B-CAB-CBB
13	C2	201	CYC	C2B-C3B-CAB-CBB
13	D2	1001	CYC	C2B-C3B-CAB-CBB
13	F2	1001	CYC	C2B-C3B-CAB-CBB
13	G2	202	CYC	C2B-C3B-CAB-CBB
13	H2	1001	CYC	C2B-C3B-CAB-CBB
13	J2	1001	CYC	C2B-C3B-CAB-CBB
13	L2	201	CYC	C2B-C3B-CAB-CBB
13	O2	1001	CYC	C2B-C3B-CAB-CBB
13	Q2	201	CYC	C2B-C3B-CAB-CBB
13	R2	1001	CYC	C2B-C3B-CAB-CBB
13	S2	1001	CYC	C2B-C3B-CAB-CBB
13	U2	202	CYC	C2B-C3B-CAB-CBB
13	V2	202	CYC	C2B-C3B-CAB-CBB
13	W2	202	CYC	C2B-C3B-CAB-CBB
13	Y2	201	CYC	C2B-C3B-CAB-CBB
13	Z2	202	CYC	C2B-C3B-CAB-CBB
13	A3	301	CYC	C2B-C3B-CAB-CBB
13	B3	1001	CYC	C2B-C3B-CAB-CBB
13	D3	1001	CYC	C2B-C3B-CAB-CBB
13	F3	1001	CYC	C2B-C3B-CAB-CBB
13	G3	201	CYC	C2B-C3B-CAB-CBB
13	H3	1001	CYC	C2B-C3B-CAB-CBB
13	J3	1001	CYC	C2B-C3B-CAB-CBB
13	L3	201	CYC	C2B-C3B-CAB-CBB
13	B4	1001	CYC	C2B-C3B-CAB-CBB
13	D4	1001	CYC	C2B-C3B-CAB-CBB
13	F4	1001	CYC	C2B-C3B-CAB-CBB
13	G4	202	CYC	C2B-C3B-CAB-CBB
13	H4	1001	CYC	C2B-C3B-CAB-CBB
13	J4	1001	CYC	C2B-C3B-CAB-CBB
13	O4	1001	CYC	C2B-C3B-CAB-CBB
13	Q4	201	CYC	C2B-C3B-CAB-CBB
13	R4	1001	CYC	C2B-C3B-CAB-CBB
13	S4	1001	CYC	C2B-C3B-CAB-CBB
13	T4	202	CYC	C2B-C3B-CAB-CBB
13	V4	202	CYC	C2B-C3B-CAB-CBB
13	W4	1001	CYC	C2B-C3B-CAB-CBB
13	Y4	201	CYC	C2B-C3B-CAB-CBB
13	Z4	202	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
13	B5	1001	CYC	C2B-C3B-CAB-CBB
13	D5	1001	CYC	C2B-C3B-CAB-CBB
13	E5	202	CYC	C2B-C3B-CAB-CBB
13	J5	1001	CYC	C2B-C3B-CAB-CBB
13	L5	201	CYC	C2B-C3B-CAB-CBB
13	M5	1001	CYC	C2B-C3B-CAB-CBB
13	O5	1001	CYC	C2B-C3B-CAB-CBB
13	P5	203	CYC	C2B-C3B-CAB-CBB
13	S5	1001	CYC	C2B-C3B-CAB-CBB
13	U5	1001	CYC	C2B-C3B-CAB-CBB
13	W5	1001	CYC	C2B-C3B-CAB-CBB
13	Y5	201	CYC	C2B-C3B-CAB-CBB
13	B6	1001	CYC	C2B-C3B-CAB-CBB
13	C6	201	CYC	C2B-C3B-CAB-CBB
13	D6	1001	CYC	C2B-C3B-CAB-CBB
13	F6	1001	CYC	C2B-C3B-CAB-CBB
13	G6	202	CYC	C2B-C3B-CAB-CBB
13	H6	1001	CYC	C2B-C3B-CAB-CBB
13	J6	1001	CYC	C2B-C3B-CAB-CBB
13	L6	201	CYC	C2B-C3B-CAB-CBB
13	N6	302	CYC	C2B-C3B-CAB-CBB
13	O6	1001	CYC	C2B-C3B-CAB-CBB
13	Q6	201	CYC	C2B-C3B-CAB-CBB
13	R6	1001	CYC	C2B-C3B-CAB-CBB
13	S6	1001	CYC	C2B-C3B-CAB-CBB
13	U6	202	CYC	C2B-C3B-CAB-CBB
13	V6	202	CYC	C2B-C3B-CAB-CBB
13	W6	202	CYC	C2B-C3B-CAB-CBB
13	Y6	201	CYC	C2B-C3B-CAB-CBB
13	Z6	202	CYC	C2B-C3B-CAB-CBB
13	A7	301	CYC	C2B-C3B-CAB-CBB
13	B7	1001	CYC	C2B-C3B-CAB-CBB
13	D7	1001	CYC	C2B-C3B-CAB-CBB
13	F7	1001	CYC	C2B-C3B-CAB-CBB
13	G7	201	CYC	C2B-C3B-CAB-CBB
13	H7	1001	CYC	C2B-C3B-CAB-CBB
13	J7	1001	CYC	C2B-C3B-CAB-CBB
13	L7	201	CYC	C2B-C3B-CAB-CBB
13	DA	1001	CYC	C2B-C3B-CAB-CBB
13	EA	202	CYC	C2B-C3B-CAB-CBB
13	GA	1001	CYC	C2B-C3B-CAB-CBB
13	JA	1001	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
13	LA	201	CYC	C2B-C3B-CAB-CBB
13	MA	1001	CYC	C2B-C3B-CAB-CBB
13	OA	1001	CYC	C2B-C3B-CAB-CBB
13	PA	203	CYC	C2B-C3B-CAB-CBB
13	SA	1001	CYC	C2B-C3B-CAB-CBB
13	UA	1001	CYC	C2B-C3B-CAB-CBB
13	WA	1001	CYC	C2B-C3B-CAB-CBB
13	YA	201	CYC	C2B-C3B-CAB-CBB
13	I1	201	CYC	C3A-C4A-CHB-C1B
13	X1	201	CYC	C3A-C4A-CHB-C1B
13	I2	201	CYC	C3A-C4A-CHB-C1B
13	X2	201	CYC	C3A-C4A-CHB-C1B
13	I3	201	CYC	C3A-C4A-CHB-C1B
13	I4	201	CYC	C3A-C4A-CHB-C1B
13	X4	201	CYC	C3A-C4A-CHB-C1B
13	A5	303	CYC	C3A-C4A-CHB-C1B
13	A5	304	CYC	C3A-C4A-CHB-C1B
13	I5	201	CYC	C3A-C4A-CHB-C1B
13	N5	301	CYC	C3A-C4A-CHB-C1B
13	T5	201	CYC	C3A-C4A-CHB-C1B
13	V5	201	CYC	C3A-C4A-CHB-C1B
13	X5	201	CYC	C3A-C4A-CHB-C1B
13	Z5	201	CYC	C3A-C4A-CHB-C1B
13	I6	201	CYC	C3A-C4A-CHB-C1B
13	X6	201	CYC	C3A-C4A-CHB-C1B
13	I7	201	CYC	C3A-C4A-CHB-C1B
13	AA	303	CYC	C3A-C4A-CHB-C1B
13	AA	304	CYC	C3A-C4A-CHB-C1B
13	IA	201	CYC	C3A-C4A-CHB-C1B
13	NA	301	CYC	C3A-C4A-CHB-C1B
13	TA	201	CYC	C3A-C4A-CHB-C1B
13	VA	201	CYC	C3A-C4A-CHB-C1B
13	XA	201	CYC	C3A-C4A-CHB-C1B
13	ZA	201	CYC	C3A-C4A-CHB-C1B
13	R1	1001	CYC	C2B-C3B-CAB-CBB
13	Z1	202	CYC	C2B-C3B-CAB-CBB
13	C4	301	CYC	C2B-C3B-CAB-CBB
13	L4	201	CYC	C2B-C3B-CAB-CBB
13	C1	302	CYC	NA-C4A-CHB-C1B
13	E1	201	CYC	NA-C4A-CHB-C1B
13	E1	202	CYC	NA-C4A-CHB-C1B
13	G1	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	I1	201	CYC	NA-C4A-CHB-C1B
13	I1	202	CYC	NA-C4A-CHB-C1B
13	K1	201	CYC	NA-C4A-CHB-C1B
13	K1	202	CYC	NA-C4A-CHB-C1B
13	M1	201	CYC	NA-C4A-CHB-C1B
13	M1	202	CYC	NA-C4A-CHB-C1B
13	P1	202	CYC	NA-C4A-CHB-C1B
13	Q1	202	CYC	NA-C4A-CHB-C1B
13	T1	201	CYC	NA-C4A-CHB-C1B
13	V1	201	CYC	NA-C4A-CHB-C1B
13	X1	201	CYC	NA-C4A-CHB-C1B
13	X1	202	CYC	NA-C4A-CHB-C1B
13	Z1	201	CYC	NA-C4A-CHB-C1B
13	C2	202	CYC	NA-C4A-CHB-C1B
13	E2	201	CYC	NA-C4A-CHB-C1B
13	E2	202	CYC	NA-C4A-CHB-C1B
13	G2	201	CYC	NA-C4A-CHB-C1B
13	I2	201	CYC	NA-C4A-CHB-C1B
13	I2	202	CYC	NA-C4A-CHB-C1B
13	K2	201	CYC	NA-C4A-CHB-C1B
13	K2	202	CYC	NA-C4A-CHB-C1B
13	M2	201	CYC	NA-C4A-CHB-C1B
13	N2	301	CYC	NA-C4A-CHB-C1B
13	T2	201	CYC	NA-C4A-CHB-C1B
13	U2	201	CYC	NA-C4A-CHB-C1B
13	V2	201	CYC	NA-C4A-CHB-C1B
13	W2	201	CYC	NA-C4A-CHB-C1B
13	W2	203	CYC	NA-C4A-CHB-C1B
13	X2	201	CYC	NA-C4A-CHB-C1B
13	Z2	201	CYC	NA-C4A-CHB-C1B
13	C3	201	CYC	NA-C4A-CHB-C1B
13	E3	201	CYC	NA-C4A-CHB-C1B
13	E3	202	CYC	NA-C4A-CHB-C1B
13	G3	202	CYC	NA-C4A-CHB-C1B
13	I3	201	CYC	NA-C4A-CHB-C1B
13	I3	202	CYC	NA-C4A-CHB-C1B
13	K3	201	CYC	NA-C4A-CHB-C1B
13	K3	202	CYC	NA-C4A-CHB-C1B
13	M3	201	CYC	NA-C4A-CHB-C1B
13	N3	301	CYC	NA-C4A-CHB-C1B
13	C4	302	CYC	NA-C4A-CHB-C1B
13	E4	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	E4	202	CYC	NA-C4A-CHB-C1B
13	G4	201	CYC	NA-C4A-CHB-C1B
13	I4	201	CYC	NA-C4A-CHB-C1B
13	I4	202	CYC	NA-C4A-CHB-C1B
13	K4	201	CYC	NA-C4A-CHB-C1B
13	K4	202	CYC	NA-C4A-CHB-C1B
13	M4	201	CYC	NA-C4A-CHB-C1B
13	M4	202	CYC	NA-C4A-CHB-C1B
13	P4	202	CYC	NA-C4A-CHB-C1B
13	Q4	202	CYC	NA-C4A-CHB-C1B
13	T4	201	CYC	NA-C4A-CHB-C1B
13	V4	201	CYC	NA-C4A-CHB-C1B
13	X4	201	CYC	NA-C4A-CHB-C1B
13	X4	202	CYC	NA-C4A-CHB-C1B
13	Z4	201	CYC	NA-C4A-CHB-C1B
13	A5	301	CYC	NA-C4A-CHB-C1B
13	A5	302	CYC	NA-C4A-CHB-C1B
13	A5	303	CYC	NA-C4A-CHB-C1B
13	A5	304	CYC	NA-C4A-CHB-C1B
13	C5	201	CYC	NA-C4A-CHB-C1B
13	E5	201	CYC	NA-C4A-CHB-C1B
13	G5	201	CYC	NA-C4A-CHB-C1B
13	I5	201	CYC	NA-C4A-CHB-C1B
13	I5	202	CYC	NA-C4A-CHB-C1B
13	K5	201	CYC	NA-C4A-CHB-C1B
13	M5	1002	CYC	NA-C4A-CHB-C1B
13	M5	1003	CYC	NA-C4A-CHB-C1B
13	N5	301	CYC	NA-C4A-CHB-C1B
13	P5	202	CYC	NA-C4A-CHB-C1B
13	R5	201	CYC	NA-C4A-CHB-C1B
13	T5	201	CYC	NA-C4A-CHB-C1B
13	T5	202	CYC	NA-C4A-CHB-C1B
13	V5	201	CYC	NA-C4A-CHB-C1B
13	V5	202	CYC	NA-C4A-CHB-C1B
13	X5	201	CYC	NA-C4A-CHB-C1B
13	X5	202	CYC	NA-C4A-CHB-C1B
13	Z5	201	CYC	NA-C4A-CHB-C1B
13	Z5	202	CYC	NA-C4A-CHB-C1B
13	C6	202	CYC	NA-C4A-CHB-C1B
13	E6	201	CYC	NA-C4A-CHB-C1B
13	E6	202	CYC	NA-C4A-CHB-C1B
13	G6	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	I6	201	CYC	NA-C4A-CHB-C1B
13	I6	202	CYC	NA-C4A-CHB-C1B
13	K6	201	CYC	NA-C4A-CHB-C1B
13	K6	202	CYC	NA-C4A-CHB-C1B
13	M6	201	CYC	NA-C4A-CHB-C1B
13	N6	301	CYC	NA-C4A-CHB-C1B
13	T6	201	CYC	NA-C4A-CHB-C1B
13	U6	201	CYC	NA-C4A-CHB-C1B
13	V6	201	CYC	NA-C4A-CHB-C1B
13	W6	201	CYC	NA-C4A-CHB-C1B
13	X6	201	CYC	NA-C4A-CHB-C1B
13	X6	202	CYC	NA-C4A-CHB-C1B
13	Z6	201	CYC	NA-C4A-CHB-C1B
13	C7	201	CYC	NA-C4A-CHB-C1B
13	E7	201	CYC	NA-C4A-CHB-C1B
13	E7	202	CYC	NA-C4A-CHB-C1B
13	G7	202	CYC	NA-C4A-CHB-C1B
13	I7	201	CYC	NA-C4A-CHB-C1B
13	I7	202	CYC	NA-C4A-CHB-C1B
13	K7	201	CYC	NA-C4A-CHB-C1B
13	K7	202	CYC	NA-C4A-CHB-C1B
13	M7	201	CYC	NA-C4A-CHB-C1B
13	N7	301	CYC	NA-C4A-CHB-C1B
13	A8	1001	CYC	NA-C4A-CHB-C1B
13	B8	1001	CYC	NA-C4A-CHB-C1B
13	C8	1001	CYC	NA-C4A-CHB-C1B
13	D8	1001	CYC	NA-C4A-CHB-C1B
13	E8	1001	CYC	NA-C4A-CHB-C1B
13	F8	1001	CYC	NA-C4A-CHB-C1B
13	H8	1001	CYC	NA-C4A-CHB-C1B
13	I8	1001	CYC	NA-C4A-CHB-C1B
13	J8	1001	CYC	NA-C4A-CHB-C1B
13	K8	1001	CYC	NA-C4A-CHB-C1B
13	L8	1001	CYC	NA-C4A-CHB-C1B
13	M8	1001	CYC	NA-C4A-CHB-C1B
13	O8	1001	CYC	NA-C4A-CHB-C1B
13	P8	1001	CYC	NA-C4A-CHB-C1B
13	Q8	1001	CYC	NA-C4A-CHB-C1B
13	R8	1001	CYC	NA-C4A-CHB-C1B
13	S8	1001	CYC	NA-C4A-CHB-C1B
13	T8	1001	CYC	NA-C4A-CHB-C1B
13	V8	1001	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	W8	1001	CYC	NA-C4A-CHB-C1B
13	X8	1001	CYC	NA-C4A-CHB-C1B
13	Y8	1001	CYC	NA-C4A-CHB-C1B
13	Z8	1001	CYC	NA-C4A-CHB-C1B
13	b8	1001	CYC	NA-C4A-CHB-C1B
13	c8	1001	CYC	NA-C4A-CHB-C1B
13	d8	1001	CYC	NA-C4A-CHB-C1B
13	e8	1001	CYC	NA-C4A-CHB-C1B
13	f8	1001	CYC	NA-C4A-CHB-C1B
13	g8	1001	CYC	NA-C4A-CHB-C1B
13	h8	1001	CYC	NA-C4A-CHB-C1B
13	j8	1001	CYC	NA-C4A-CHB-C1B
13	k8	1001	CYC	NA-C4A-CHB-C1B
13	l8	1001	CYC	NA-C4A-CHB-C1B
13	n8	1001	CYC	NA-C4A-CHB-C1B
13	o8	1001	CYC	NA-C4A-CHB-C1B
13	p8	1001	CYC	NA-C4A-CHB-C1B
13	q8	1001	CYC	NA-C4A-CHB-C1B
13	r8	1001	CYC	NA-C4A-CHB-C1B
13	s8	1001	CYC	NA-C4A-CHB-C1B
13	t8	1001	CYC	NA-C4A-CHB-C1B
13	09	1201	CYC	NA-C4A-CHB-C1B
13	09	1202	CYC	NA-C4A-CHB-C1B
13	09	1203	CYC	NA-C4A-CHB-C1B
13	19	1201	CYC	NA-C4A-CHB-C1B
13	19	1202	CYC	NA-C4A-CHB-C1B
13	19	1203	CYC	NA-C4A-CHB-C1B
13	19	1204	CYC	NA-C4A-CHB-C1B
13	19	1205	CYC	NA-C4A-CHB-C1B
13	29	1001	CYC	NA-C4A-CHB-C1B
13	39	1001	CYC	NA-C4A-CHB-C1B
13	B9	1001	CYC	NA-C4A-CHB-C1B
13	D9	1001	CYC	NA-C4A-CHB-C1B
13	F9	1001	CYC	NA-C4A-CHB-C1B
13	H9	1001	CYC	NA-C4A-CHB-C1B
13	J9	1001	CYC	NA-C4A-CHB-C1B
13	L9	1001	CYC	NA-C4A-CHB-C1B
13	O9	1001	CYC	NA-C4A-CHB-C1B
13	Q9	201	CYC	NA-C4A-CHB-C1B
13	S9	1001	CYC	NA-C4A-CHB-C1B
13	U9	1001	CYC	NA-C4A-CHB-C1B
13	c9	1001	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	e9	1001	CYC	NA-C4A-CHB-C1B
13	g9	1001	CYC	NA-C4A-CHB-C1B
13	j9	1001	CYC	NA-C4A-CHB-C1B
13	l9	1001	CYC	NA-C4A-CHB-C1B
13	p9	1001	CYC	NA-C4A-CHB-C1B
13	r9	1001	CYC	NA-C4A-CHB-C1B
13	t9	1001	CYC	NA-C4A-CHB-C1B
13	v9	1001	CYC	NA-C4A-CHB-C1B
13	x9	1001	CYC	NA-C4A-CHB-C1B
13	z9	1001	CYC	NA-C4A-CHB-C1B
13	AA	301	CYC	NA-C4A-CHB-C1B
13	AA	302	CYC	NA-C4A-CHB-C1B
13	AA	303	CYC	NA-C4A-CHB-C1B
13	AA	304	CYC	NA-C4A-CHB-C1B
13	CA	201	CYC	NA-C4A-CHB-C1B
13	EA	201	CYC	NA-C4A-CHB-C1B
13	GA	1002	CYC	NA-C4A-CHB-C1B
13	IA	201	CYC	NA-C4A-CHB-C1B
13	IA	202	CYC	NA-C4A-CHB-C1B
13	KA	201	CYC	NA-C4A-CHB-C1B
13	MA	1002	CYC	NA-C4A-CHB-C1B
13	MA	1003	CYC	NA-C4A-CHB-C1B
13	NA	301	CYC	NA-C4A-CHB-C1B
13	PA	202	CYC	NA-C4A-CHB-C1B
13	RA	201	CYC	NA-C4A-CHB-C1B
13	TA	201	CYC	NA-C4A-CHB-C1B
13	TA	202	CYC	NA-C4A-CHB-C1B
13	VA	201	CYC	NA-C4A-CHB-C1B
13	VA	202	CYC	NA-C4A-CHB-C1B
13	XA	201	CYC	NA-C4A-CHB-C1B
13	XA	202	CYC	NA-C4A-CHB-C1B
13	ZA	201	CYC	NA-C4A-CHB-C1B
13	ZA	202	CYC	NA-C4A-CHB-C1B
13	B1	1001	CYC	C3A-C4A-CHB-C1B
13	C1	301	CYC	C3A-C4A-CHB-C1B
13	C1	302	CYC	C3A-C4A-CHB-C1B
13	D1	1001	CYC	C3A-C4A-CHB-C1B
13	E1	201	CYC	C3A-C4A-CHB-C1B
13	E1	202	CYC	C3A-C4A-CHB-C1B
13	F1	1001	CYC	C3A-C4A-CHB-C1B
13	G1	201	CYC	C3A-C4A-CHB-C1B
13	G1	202	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	H1	1001	CYC	C3A-C4A-CHB-C1B
13	I1	202	CYC	C3A-C4A-CHB-C1B
13	J1	1001	CYC	C3A-C4A-CHB-C1B
13	K1	201	CYC	C3A-C4A-CHB-C1B
13	K1	202	CYC	C3A-C4A-CHB-C1B
13	L1	201	CYC	C3A-C4A-CHB-C1B
13	M1	201	CYC	C3A-C4A-CHB-C1B
13	M1	202	CYC	C3A-C4A-CHB-C1B
13	O1	1001	CYC	C3A-C4A-CHB-C1B
13	P1	202	CYC	C3A-C4A-CHB-C1B
13	Q1	201	CYC	C3A-C4A-CHB-C1B
13	Q1	202	CYC	C3A-C4A-CHB-C1B
13	R1	1001	CYC	C3A-C4A-CHB-C1B
13	S1	1001	CYC	C3A-C4A-CHB-C1B
13	T1	201	CYC	C3A-C4A-CHB-C1B
13	T1	202	CYC	C3A-C4A-CHB-C1B
13	U1	1001	CYC	C3A-C4A-CHB-C1B
13	V1	201	CYC	C3A-C4A-CHB-C1B
13	V1	202	CYC	C3A-C4A-CHB-C1B
13	W1	1001	CYC	C3A-C4A-CHB-C1B
13	X1	202	CYC	C3A-C4A-CHB-C1B
13	Y1	201	CYC	C3A-C4A-CHB-C1B
13	Z1	201	CYC	C3A-C4A-CHB-C1B
13	Z1	202	CYC	C3A-C4A-CHB-C1B
13	B2	1001	CYC	C3A-C4A-CHB-C1B
13	C2	201	CYC	C3A-C4A-CHB-C1B
13	C2	202	CYC	C3A-C4A-CHB-C1B
13	D2	1001	CYC	C3A-C4A-CHB-C1B
13	E2	201	CYC	C3A-C4A-CHB-C1B
13	E2	202	CYC	C3A-C4A-CHB-C1B
13	F2	1001	CYC	C3A-C4A-CHB-C1B
13	G2	201	CYC	C3A-C4A-CHB-C1B
13	G2	202	CYC	C3A-C4A-CHB-C1B
13	H2	1001	CYC	C3A-C4A-CHB-C1B
13	I2	202	CYC	C3A-C4A-CHB-C1B
13	J2	1001	CYC	C3A-C4A-CHB-C1B
13	K2	201	CYC	C3A-C4A-CHB-C1B
13	K2	202	CYC	C3A-C4A-CHB-C1B
13	L2	201	CYC	C3A-C4A-CHB-C1B
13	M2	201	CYC	C3A-C4A-CHB-C1B
13	N2	301	CYC	C3A-C4A-CHB-C1B
13	N2	302	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	O2	1001	CYC	C3A-C4A-CHB-C1B
13	Q2	201	CYC	C3A-C4A-CHB-C1B
13	R2	1001	CYC	C3A-C4A-CHB-C1B
13	S2	1001	CYC	C3A-C4A-CHB-C1B
13	T2	201	CYC	C3A-C4A-CHB-C1B
13	U2	201	CYC	C3A-C4A-CHB-C1B
13	U2	202	CYC	C3A-C4A-CHB-C1B
13	V2	201	CYC	C3A-C4A-CHB-C1B
13	V2	202	CYC	C3A-C4A-CHB-C1B
13	W2	201	CYC	C3A-C4A-CHB-C1B
13	W2	202	CYC	C3A-C4A-CHB-C1B
13	W2	203	CYC	C3A-C4A-CHB-C1B
13	Y2	201	CYC	C3A-C4A-CHB-C1B
13	Z2	201	CYC	C3A-C4A-CHB-C1B
13	Z2	202	CYC	C3A-C4A-CHB-C1B
13	A3	301	CYC	C3A-C4A-CHB-C1B
13	B3	1001	CYC	C3A-C4A-CHB-C1B
13	C3	201	CYC	C3A-C4A-CHB-C1B
13	D3	1001	CYC	C3A-C4A-CHB-C1B
13	E3	201	CYC	C3A-C4A-CHB-C1B
13	E3	202	CYC	C3A-C4A-CHB-C1B
13	F3	1001	CYC	C3A-C4A-CHB-C1B
13	G3	201	CYC	C3A-C4A-CHB-C1B
13	G3	202	CYC	C3A-C4A-CHB-C1B
13	H3	1001	CYC	C3A-C4A-CHB-C1B
13	I3	202	CYC	C3A-C4A-CHB-C1B
13	J3	1001	CYC	C3A-C4A-CHB-C1B
13	K3	201	CYC	C3A-C4A-CHB-C1B
13	K3	202	CYC	C3A-C4A-CHB-C1B
13	L3	201	CYC	C3A-C4A-CHB-C1B
13	M3	201	CYC	C3A-C4A-CHB-C1B
13	N3	301	CYC	C3A-C4A-CHB-C1B
13	B4	1001	CYC	C3A-C4A-CHB-C1B
13	C4	301	CYC	C3A-C4A-CHB-C1B
13	C4	302	CYC	C3A-C4A-CHB-C1B
13	D4	1001	CYC	C3A-C4A-CHB-C1B
13	E4	201	CYC	C3A-C4A-CHB-C1B
13	E4	202	CYC	C3A-C4A-CHB-C1B
13	F4	1001	CYC	C3A-C4A-CHB-C1B
13	G4	201	CYC	C3A-C4A-CHB-C1B
13	G4	202	CYC	C3A-C4A-CHB-C1B
13	H4	1001	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	I4	202	CYC	C3A-C4A-CHB-C1B
13	J4	1001	CYC	C3A-C4A-CHB-C1B
13	K4	201	CYC	C3A-C4A-CHB-C1B
13	K4	202	CYC	C3A-C4A-CHB-C1B
13	L4	201	CYC	C3A-C4A-CHB-C1B
13	M4	201	CYC	C3A-C4A-CHB-C1B
13	M4	202	CYC	C3A-C4A-CHB-C1B
13	O4	1001	CYC	C3A-C4A-CHB-C1B
13	P4	202	CYC	C3A-C4A-CHB-C1B
13	Q4	201	CYC	C3A-C4A-CHB-C1B
13	Q4	202	CYC	C3A-C4A-CHB-C1B
13	R4	1001	CYC	C3A-C4A-CHB-C1B
13	S4	1001	CYC	C3A-C4A-CHB-C1B
13	T4	201	CYC	C3A-C4A-CHB-C1B
13	T4	202	CYC	C3A-C4A-CHB-C1B
13	U4	1001	CYC	C3A-C4A-CHB-C1B
13	V4	201	CYC	C3A-C4A-CHB-C1B
13	V4	202	CYC	C3A-C4A-CHB-C1B
13	W4	1001	CYC	C3A-C4A-CHB-C1B
13	X4	202	CYC	C3A-C4A-CHB-C1B
13	Y4	201	CYC	C3A-C4A-CHB-C1B
13	Z4	201	CYC	C3A-C4A-CHB-C1B
13	Z4	202	CYC	C3A-C4A-CHB-C1B
13	A5	301	CYC	C3A-C4A-CHB-C1B
13	A5	302	CYC	C3A-C4A-CHB-C1B
13	B5	1001	CYC	C3A-C4A-CHB-C1B
13	C5	201	CYC	C3A-C4A-CHB-C1B
13	D5	1001	CYC	C3A-C4A-CHB-C1B
13	E5	201	CYC	C3A-C4A-CHB-C1B
13	E5	202	CYC	C3A-C4A-CHB-C1B
13	G5	201	CYC	C3A-C4A-CHB-C1B
13	I5	202	CYC	C3A-C4A-CHB-C1B
13	J5	1001	CYC	C3A-C4A-CHB-C1B
13	K5	201	CYC	C3A-C4A-CHB-C1B
13	L5	201	CYC	C3A-C4A-CHB-C1B
13	M5	1001	CYC	C3A-C4A-CHB-C1B
13	M5	1002	CYC	C3A-C4A-CHB-C1B
13	M5	1003	CYC	C3A-C4A-CHB-C1B
13	O5	1001	CYC	C3A-C4A-CHB-C1B
13	P5	202	CYC	C3A-C4A-CHB-C1B
13	P5	203	CYC	C3A-C4A-CHB-C1B
13	R5	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	S5	1001	CYC	C3A-C4A-CHB-C1B
13	T5	202	CYC	C3A-C4A-CHB-C1B
13	U5	1001	CYC	C3A-C4A-CHB-C1B
13	V5	202	CYC	C3A-C4A-CHB-C1B
13	W5	1001	CYC	C3A-C4A-CHB-C1B
13	X5	202	CYC	C3A-C4A-CHB-C1B
13	Y5	201	CYC	C3A-C4A-CHB-C1B
13	Z5	202	CYC	C3A-C4A-CHB-C1B
13	B6	1001	CYC	C3A-C4A-CHB-C1B
13	C6	201	CYC	C3A-C4A-CHB-C1B
13	C6	202	CYC	C3A-C4A-CHB-C1B
13	D6	1001	CYC	C3A-C4A-CHB-C1B
13	E6	201	CYC	C3A-C4A-CHB-C1B
13	E6	202	CYC	C3A-C4A-CHB-C1B
13	F6	1001	CYC	C3A-C4A-CHB-C1B
13	G6	201	CYC	C3A-C4A-CHB-C1B
13	G6	202	CYC	C3A-C4A-CHB-C1B
13	H6	1001	CYC	C3A-C4A-CHB-C1B
13	I6	202	CYC	C3A-C4A-CHB-C1B
13	J6	1001	CYC	C3A-C4A-CHB-C1B
13	K6	201	CYC	C3A-C4A-CHB-C1B
13	K6	202	CYC	C3A-C4A-CHB-C1B
13	L6	201	CYC	C3A-C4A-CHB-C1B
13	M6	201	CYC	C3A-C4A-CHB-C1B
13	N6	301	CYC	C3A-C4A-CHB-C1B
13	N6	302	CYC	C3A-C4A-CHB-C1B
13	O6	1001	CYC	C3A-C4A-CHB-C1B
13	Q6	201	CYC	C3A-C4A-CHB-C1B
13	R6	1001	CYC	C3A-C4A-CHB-C1B
13	S6	1001	CYC	C3A-C4A-CHB-C1B
13	T6	201	CYC	C3A-C4A-CHB-C1B
13	U6	201	CYC	C3A-C4A-CHB-C1B
13	U6	202	CYC	C3A-C4A-CHB-C1B
13	V6	201	CYC	C3A-C4A-CHB-C1B
13	V6	202	CYC	C3A-C4A-CHB-C1B
13	W6	201	CYC	C3A-C4A-CHB-C1B
13	W6	202	CYC	C3A-C4A-CHB-C1B
13	X6	202	CYC	C3A-C4A-CHB-C1B
13	Y6	201	CYC	C3A-C4A-CHB-C1B
13	Z6	201	CYC	C3A-C4A-CHB-C1B
13	Z6	202	CYC	C3A-C4A-CHB-C1B
13	A7	301	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	B7	1001	CYC	C3A-C4A-CHB-C1B
13	C7	201	CYC	C3A-C4A-CHB-C1B
13	D7	1001	CYC	C3A-C4A-CHB-C1B
13	E7	201	CYC	C3A-C4A-CHB-C1B
13	E7	202	CYC	C3A-C4A-CHB-C1B
13	F7	1001	CYC	C3A-C4A-CHB-C1B
13	G7	201	CYC	C3A-C4A-CHB-C1B
13	G7	202	CYC	C3A-C4A-CHB-C1B
13	H7	1001	CYC	C3A-C4A-CHB-C1B
13	I7	202	CYC	C3A-C4A-CHB-C1B
13	J7	1001	CYC	C3A-C4A-CHB-C1B
13	K7	201	CYC	C3A-C4A-CHB-C1B
13	K7	202	CYC	C3A-C4A-CHB-C1B
13	L7	201	CYC	C3A-C4A-CHB-C1B
13	M7	201	CYC	C3A-C4A-CHB-C1B
13	N7	301	CYC	C3A-C4A-CHB-C1B
13	A8	1001	CYC	C3A-C4A-CHB-C1B
13	B8	1001	CYC	C3A-C4A-CHB-C1B
13	C8	1001	CYC	C3A-C4A-CHB-C1B
13	D8	1001	CYC	C3A-C4A-CHB-C1B
13	E8	1001	CYC	C3A-C4A-CHB-C1B
13	F8	1001	CYC	C3A-C4A-CHB-C1B
13	H8	1001	CYC	C3A-C4A-CHB-C1B
13	I8	1001	CYC	C3A-C4A-CHB-C1B
13	J8	1001	CYC	C3A-C4A-CHB-C1B
13	K8	1001	CYC	C3A-C4A-CHB-C1B
13	L8	1001	CYC	C3A-C4A-CHB-C1B
13	M8	1001	CYC	C3A-C4A-CHB-C1B
13	O8	1001	CYC	C3A-C4A-CHB-C1B
13	P8	1001	CYC	C3A-C4A-CHB-C1B
13	Q8	1001	CYC	C3A-C4A-CHB-C1B
13	R8	1001	CYC	C3A-C4A-CHB-C1B
13	S8	1001	CYC	C3A-C4A-CHB-C1B
13	T8	1001	CYC	C3A-C4A-CHB-C1B
13	V8	1001	CYC	C3A-C4A-CHB-C1B
13	W8	1001	CYC	C3A-C4A-CHB-C1B
13	X8	1001	CYC	C3A-C4A-CHB-C1B
13	Y8	1001	CYC	C3A-C4A-CHB-C1B
13	Z8	1001	CYC	C3A-C4A-CHB-C1B
13	b8	1001	CYC	C3A-C4A-CHB-C1B
13	c8	1001	CYC	C3A-C4A-CHB-C1B
13	d8	1001	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	e8	1001	CYC	C3A-C4A-CHB-C1B
13	f8	1001	CYC	C3A-C4A-CHB-C1B
13	g8	1001	CYC	C3A-C4A-CHB-C1B
13	h8	1001	CYC	C3A-C4A-CHB-C1B
13	j8	1001	CYC	C3A-C4A-CHB-C1B
13	k8	1001	CYC	C3A-C4A-CHB-C1B
13	l8	1001	CYC	C3A-C4A-CHB-C1B
13	n8	1001	CYC	C3A-C4A-CHB-C1B
13	o8	1001	CYC	C3A-C4A-CHB-C1B
13	p8	1001	CYC	C3A-C4A-CHB-C1B
13	q8	1001	CYC	C3A-C4A-CHB-C1B
13	r8	1001	CYC	C3A-C4A-CHB-C1B
13	s8	1001	CYC	C3A-C4A-CHB-C1B
13	t8	1001	CYC	C3A-C4A-CHB-C1B
13	09	1201	CYC	C3A-C4A-CHB-C1B
13	09	1202	CYC	C3A-C4A-CHB-C1B
13	09	1203	CYC	C3A-C4A-CHB-C1B
13	19	1201	CYC	C3A-C4A-CHB-C1B
13	19	1202	CYC	C3A-C4A-CHB-C1B
13	19	1203	CYC	C3A-C4A-CHB-C1B
13	19	1204	CYC	C3A-C4A-CHB-C1B
13	19	1205	CYC	C3A-C4A-CHB-C1B
13	29	1001	CYC	C3A-C4A-CHB-C1B
13	39	1001	CYC	C3A-C4A-CHB-C1B
13	B9	1001	CYC	C3A-C4A-CHB-C1B
13	D9	1001	CYC	C3A-C4A-CHB-C1B
13	F9	1001	CYC	C3A-C4A-CHB-C1B
13	H9	1001	CYC	C3A-C4A-CHB-C1B
13	J9	1001	CYC	C3A-C4A-CHB-C1B
13	L9	1001	CYC	C3A-C4A-CHB-C1B
13	O9	1001	CYC	C3A-C4A-CHB-C1B
13	Q9	201	CYC	C3A-C4A-CHB-C1B
13	S9	1001	CYC	C3A-C4A-CHB-C1B
13	U9	1001	CYC	C3A-C4A-CHB-C1B
13	c9	1001	CYC	C3A-C4A-CHB-C1B
13	e9	1001	CYC	C3A-C4A-CHB-C1B
13	g9	1001	CYC	C3A-C4A-CHB-C1B
13	j9	1001	CYC	C3A-C4A-CHB-C1B
13	l9	1001	CYC	C3A-C4A-CHB-C1B
13	p9	1001	CYC	C3A-C4A-CHB-C1B
13	r9	1001	CYC	C3A-C4A-CHB-C1B
13	t9	1001	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
13	v9	1001	CYC	C3A-C4A-CHB-C1B
13	x9	1001	CYC	C3A-C4A-CHB-C1B
13	z9	1001	CYC	C3A-C4A-CHB-C1B
13	AA	301	CYC	C3A-C4A-CHB-C1B
13	AA	302	CYC	C3A-C4A-CHB-C1B
13	CA	201	CYC	C3A-C4A-CHB-C1B
13	DA	1001	CYC	C3A-C4A-CHB-C1B
13	EA	201	CYC	C3A-C4A-CHB-C1B
13	EA	202	CYC	C3A-C4A-CHB-C1B
13	GA	1001	CYC	C3A-C4A-CHB-C1B
13	GA	1002	CYC	C3A-C4A-CHB-C1B
13	IA	202	CYC	C3A-C4A-CHB-C1B
13	JA	1001	CYC	C3A-C4A-CHB-C1B
13	KA	201	CYC	C3A-C4A-CHB-C1B
13	LA	201	CYC	C3A-C4A-CHB-C1B
13	MA	1001	CYC	C3A-C4A-CHB-C1B
13	MA	1002	CYC	C3A-C4A-CHB-C1B
13	MA	1003	CYC	C3A-C4A-CHB-C1B
13	OA	1001	CYC	C3A-C4A-CHB-C1B
13	PA	202	CYC	C3A-C4A-CHB-C1B
13	PA	203	CYC	C3A-C4A-CHB-C1B
13	RA	201	CYC	C3A-C4A-CHB-C1B
13	SA	1001	CYC	C3A-C4A-CHB-C1B
13	TA	202	CYC	C3A-C4A-CHB-C1B
13	UA	1001	CYC	C3A-C4A-CHB-C1B
13	VA	202	CYC	C3A-C4A-CHB-C1B
13	WA	1001	CYC	C3A-C4A-CHB-C1B
13	XA	202	CYC	C3A-C4A-CHB-C1B
13	YA	201	CYC	C3A-C4A-CHB-C1B
13	ZA	202	CYC	C3A-C4A-CHB-C1B
13	09	1203	CYC	C2B-C3B-CAB-CBB
13	19	1203	CYC	C2B-C3B-CAB-CBB
13	19	1204	CYC	C2B-C3B-CAB-CBB
13	19	1205	CYC	C2B-C3B-CAB-CBB
13	39	1001	CYC	C2B-C3B-CAB-CBB
13	D9	1001	CYC	C2B-C3B-CAB-CBB
13	F9	1001	CYC	C2B-C3B-CAB-CBB
13	H9	1001	CYC	C2B-C3B-CAB-CBB
13	J9	1001	CYC	C2B-C3B-CAB-CBB
13	L9	1001	CYC	C2B-C3B-CAB-CBB
13	O9	1001	CYC	C2B-C3B-CAB-CBB
13	S9	1001	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
13	e9	1001	CYC	C2B-C3B-CAB-CBB
13	j9	1001	CYC	C2B-C3B-CAB-CBB
13	l9	1001	CYC	C2B-C3B-CAB-CBB
13	p9	1001	CYC	C2B-C3B-CAB-CBB
13	r9	1001	CYC	C2B-C3B-CAB-CBB
13	v9	1001	CYC	C2B-C3B-CAB-CBB
13	x9	1001	CYC	C2B-C3B-CAB-CBB
13	z9	1001	CYC	C2B-C3B-CAB-CBB
13	29	1001	CYC	C2B-C3B-CAB-CBB
13	B9	1001	CYC	C2B-C3B-CAB-CBB
13	U9	1001	CYC	C2B-C3B-CAB-CBB
13	c9	1001	CYC	C2B-C3B-CAB-CBB
13	t9	1001	CYC	C2B-C3B-CAB-CBB
13	Q9	201	CYC	C2B-C3B-CAB-CBB
13	J8	1001	CYC	C2B-C3B-CAB-CBB
13	V8	1001	CYC	C2B-C3B-CAB-CBB
13	e8	1001	CYC	C2B-C3B-CAB-CBB
13	l8	1001	CYC	C2B-C3B-CAB-CBB
13	c8	1001	CYC	C2B-C3B-CAB-CBB
13	A8	1001	CYC	C2B-C3B-CAB-CBB
13	C8	1001	CYC	C2B-C3B-CAB-CBB
13	E8	1001	CYC	C2B-C3B-CAB-CBB
13	H8	1001	CYC	C2B-C3B-CAB-CBB
13	L8	1001	CYC	C2B-C3B-CAB-CBB
13	O8	1001	CYC	C2B-C3B-CAB-CBB
13	Q8	1001	CYC	C2B-C3B-CAB-CBB
13	S8	1001	CYC	C2B-C3B-CAB-CBB
13	X8	1001	CYC	C2B-C3B-CAB-CBB
13	Z8	1001	CYC	C2B-C3B-CAB-CBB
13	g8	1001	CYC	C2B-C3B-CAB-CBB
13	j8	1001	CYC	C2B-C3B-CAB-CBB
13	n8	1001	CYC	C2B-C3B-CAB-CBB
13	p8	1001	CYC	C2B-C3B-CAB-CBB
13	r8	1001	CYC	C2B-C3B-CAB-CBB
13	t8	1001	CYC	C2B-C3B-CAB-CBB
13	X1	201	CYC	C1A-C2A-CAA-CBA
13	X4	201	CYC	C1A-C2A-CAA-CBA
13	A5	303	CYC	C1A-C2A-CAA-CBA
13	A5	304	CYC	C1A-C2A-CAA-CBA
13	T5	201	CYC	C1A-C2A-CAA-CBA
13	V5	201	CYC	C1A-C2A-CAA-CBA
13	X5	201	CYC	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	Z5	201	CYC	C1A-C2A-CAA-CBA
13	AA	303	CYC	C1A-C2A-CAA-CBA
13	AA	304	CYC	C1A-C2A-CAA-CBA
13	TA	201	CYC	C1A-C2A-CAA-CBA
13	VA	201	CYC	C1A-C2A-CAA-CBA
13	XA	201	CYC	C1A-C2A-CAA-CBA
13	ZA	201	CYC	C1A-C2A-CAA-CBA
13	I1	201	CYC	C1A-C2A-CAA-CBA
13	I2	201	CYC	C1A-C2A-CAA-CBA
13	X2	201	CYC	C1A-C2A-CAA-CBA
13	I3	201	CYC	C1A-C2A-CAA-CBA
13	I4	201	CYC	C1A-C2A-CAA-CBA
13	I5	201	CYC	C1A-C2A-CAA-CBA
13	N5	301	CYC	C1A-C2A-CAA-CBA
13	I6	201	CYC	C1A-C2A-CAA-CBA
13	X6	201	CYC	C1A-C2A-CAA-CBA
13	I7	201	CYC	C1A-C2A-CAA-CBA
13	IA	201	CYC	C1A-C2A-CAA-CBA
13	NA	301	CYC	C1A-C2A-CAA-CBA
13	E1	201	CYC	C2A-CAA-CBA-CGA
13	E2	201	CYC	C2A-CAA-CBA-CGA
13	E3	201	CYC	C2A-CAA-CBA-CGA
13	E4	201	CYC	C2A-CAA-CBA-CGA
13	A5	301	CYC	C2A-CAA-CBA-CGA
13	A5	302	CYC	C2A-CAA-CBA-CGA
13	E6	201	CYC	C2A-CAA-CBA-CGA
13	E7	201	CYC	C2A-CAA-CBA-CGA
13	AA	301	CYC	C2A-CAA-CBA-CGA
13	AA	302	CYC	C2A-CAA-CBA-CGA
13	19	1202	CYC	C4B-C3B-CAB-CBB
13	I1	201	CYC	C3A-C2A-CAA-CBA
13	I2	201	CYC	C3A-C2A-CAA-CBA
13	I4	201	CYC	C3A-C2A-CAA-CBA
13	X1	201	CYC	C3A-C2A-CAA-CBA
13	X2	201	CYC	C3A-C2A-CAA-CBA
13	I3	201	CYC	C3A-C2A-CAA-CBA
13	X4	201	CYC	C3A-C2A-CAA-CBA
13	A5	303	CYC	C3A-C2A-CAA-CBA
13	A5	304	CYC	C3A-C2A-CAA-CBA
13	I5	201	CYC	C3A-C2A-CAA-CBA
13	V5	201	CYC	C3A-C2A-CAA-CBA
13	X5	201	CYC	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	Z5	201	CYC	C3A-C2A-CAA-CBA
13	I6	201	CYC	C3A-C2A-CAA-CBA
13	X6	201	CYC	C3A-C2A-CAA-CBA
13	I7	201	CYC	C3A-C2A-CAA-CBA
13	AA	303	CYC	C3A-C2A-CAA-CBA
13	AA	304	CYC	C3A-C2A-CAA-CBA
13	IA	201	CYC	C3A-C2A-CAA-CBA
13	VA	201	CYC	C3A-C2A-CAA-CBA
13	XA	201	CYC	C3A-C2A-CAA-CBA
13	ZA	201	CYC	C3A-C2A-CAA-CBA
13	N5	301	CYC	C3A-C2A-CAA-CBA
13	T5	201	CYC	C3A-C2A-CAA-CBA
13	NA	301	CYC	C3A-C2A-CAA-CBA
13	TA	201	CYC	C3A-C2A-CAA-CBA
13	A5	302	CYC	C2B-C3B-CAB-CBB
13	AA	302	CYC	C2B-C3B-CAB-CBB
13	E1	201	CYC	C2B-C3B-CAB-CBB
13	E4	201	CYC	C2B-C3B-CAB-CBB
13	E2	201	CYC	C2B-C3B-CAB-CBB
13	E3	201	CYC	C2B-C3B-CAB-CBB
13	E6	201	CYC	C2B-C3B-CAB-CBB
13	E7	201	CYC	C2B-C3B-CAB-CBB
13	A5	301	CYC	C2B-C3B-CAB-CBB
13	AA	301	CYC	C2B-C3B-CAB-CBB
13	g9	1001	CYC	C2B-C3B-CAB-CBB
13	m9	201	CYC	CAA-CBA-CGA-O2A
13	V9	201	CYC	CAA-CBA-CGA-O2A
13	V9	201	CYC	CAA-CBA-CGA-O1A
13	m9	201	CYC	CAA-CBA-CGA-O1A
13	M1	201	CYC	CAA-CBA-CGA-O1A
13	N2	301	CYC	CAA-CBA-CGA-O1A
13	N3	301	CYC	CAA-CBA-CGA-O1A
13	M4	201	CYC	CAA-CBA-CGA-O1A
13	M5	1002	CYC	CAA-CBA-CGA-O1A
13	N7	301	CYC	CAA-CBA-CGA-O1A
13	m9	201	CYC	CAD-CBD-CGD-O1D
13	MA	1002	CYC	CAA-CBA-CGA-O1A
13	N6	301	CYC	CAA-CBA-CGA-O1A
13	19	1202	CYC	CAD-CBD-CGD-O1D
13	V9	201	CYC	CAD-CBD-CGD-O1D
13	g9	1001	CYC	CAD-CBD-CGD-O1D
13	Q9	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
13	o8	1001	CYC	CAD-CBD-CGD-O1D
13	D8	1001	CYC	CAD-CBD-CGD-O1D
13	I8	1001	CYC	CAD-CBD-CGD-O1D
13	W8	1001	CYC	CAD-CBD-CGD-O1D
13	f8	1001	CYC	CAD-CBD-CGD-O1D
13	k8	1001	CYC	CAD-CBD-CGD-O1D
13	q8	1001	CYC	CAD-CBD-CGD-O1D
13	s8	1001	CYC	CAD-CBD-CGD-O1D
13	Q9	201	CYC	CAA-CBA-CGA-O2A
13	B8	1001	CYC	CAD-CBD-CGD-O1D
13	F8	1001	CYC	CAD-CBD-CGD-O1D
13	K8	1001	CYC	CAD-CBD-CGD-O1D
13	M8	1001	CYC	CAD-CBD-CGD-O1D
13	P8	1001	CYC	CAD-CBD-CGD-O1D
13	R8	1001	CYC	CAD-CBD-CGD-O1D
13	T8	1001	CYC	CAD-CBD-CGD-O1D
13	Y8	1001	CYC	CAD-CBD-CGD-O1D
13	b8	1001	CYC	CAD-CBD-CGD-O1D
13	d8	1001	CYC	CAD-CBD-CGD-O1D
13	h8	1001	CYC	CAD-CBD-CGD-O1D
13	09	1201	CYC	CAD-CBD-CGD-O1D
13	19	1201	CYC	CAD-CBD-CGD-O1D
13	C8	1001	CYC	CAA-CBA-CGA-O1A
13	L8	1001	CYC	CAA-CBA-CGA-O1A
13	S8	1001	CYC	CAA-CBA-CGA-O1A
13	V8	1001	CYC	CAA-CBA-CGA-O1A
13	Z8	1001	CYC	CAA-CBA-CGA-O1A
13	c8	1001	CYC	CAA-CBA-CGA-O1A
13	g8	1001	CYC	CAA-CBA-CGA-O1A
13	j8	1001	CYC	CAA-CBA-CGA-O1A
13	l8	1001	CYC	CAA-CBA-CGA-O1A
13	p8	1001	CYC	CAA-CBA-CGA-O1A
13	r8	1001	CYC	CAA-CBA-CGA-O1A
13	g9	1001	CYC	CAD-CBD-CGD-O2D
13	B1	1001	CYC	CAA-CBA-CGA-O2A
13	O1	1001	CYC	CAA-CBA-CGA-O2A
13	R1	1001	CYC	CAA-CBA-CGA-O2A
13	Y1	201	CYC	CAA-CBA-CGA-O2A
13	Z1	202	CYC	CAA-CBA-CGA-O2A
13	C2	201	CYC	CAA-CBA-CGA-O2A
13	H2	1001	CYC	CAA-CBA-CGA-O2A
13	Z2	202	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
13	F3	1001	CYC	CAA-CBA-CGA-O2A
13	G3	201	CYC	CAA-CBA-CGA-O2A
13	H3	1001	CYC	CAA-CBA-CGA-O2A
13	B4	1001	CYC	CAA-CBA-CGA-O2A
13	D4	1001	CYC	CAA-CBA-CGA-O2A
13	O4	1001	CYC	CAA-CBA-CGA-O2A
13	R4	1001	CYC	CAA-CBA-CGA-O2A
13	Y4	201	CYC	CAA-CBA-CGA-O2A
13	W5	1001	CYC	CAA-CBA-CGA-O2A
13	G6	202	CYC	CAA-CBA-CGA-O2A
13	J6	1001	CYC	CAA-CBA-CGA-O2A
13	L6	201	CYC	CAA-CBA-CGA-O2A
13	O6	1001	CYC	CAA-CBA-CGA-O2A
13	Z6	202	CYC	CAA-CBA-CGA-O2A
13	F7	1001	CYC	CAA-CBA-CGA-O2A
13	G7	201	CYC	CAA-CBA-CGA-O2A
13	H7	1001	CYC	CAA-CBA-CGA-O2A
13	A8	1001	CYC	CAA-CBA-CGA-O1A
13	E8	1001	CYC	CAA-CBA-CGA-O1A
13	H8	1001	CYC	CAA-CBA-CGA-O1A
13	J8	1001	CYC	CAA-CBA-CGA-O1A
13	O8	1001	CYC	CAA-CBA-CGA-O1A
13	Q8	1001	CYC	CAA-CBA-CGA-O1A
13	X8	1001	CYC	CAA-CBA-CGA-O1A
13	e8	1001	CYC	CAA-CBA-CGA-O1A
13	n8	1001	CYC	CAA-CBA-CGA-O1A
13	t8	1001	CYC	CAA-CBA-CGA-O1A
13	19	1202	CYC	CAD-CBD-CGD-O2D
13	JA	1001	CYC	CAA-CBA-CGA-O2A
13	PA	203	CYC	CAA-CBA-CGA-O2A
13	UA	1001	CYC	CAA-CBA-CGA-O2A
13	C1	301	CYC	CAA-CBA-CGA-O2A
13	G1	202	CYC	CAA-CBA-CGA-O2A
13	H1	1001	CYC	CAA-CBA-CGA-O2A
13	J1	1001	CYC	CAA-CBA-CGA-O2A
13	L1	201	CYC	CAA-CBA-CGA-O2A
13	S1	1001	CYC	CAA-CBA-CGA-O2A
13	U1	1001	CYC	CAA-CBA-CGA-O2A
13	V1	202	CYC	CAA-CBA-CGA-O2A
13	B2	1001	CYC	CAA-CBA-CGA-O2A
13	D2	1001	CYC	CAA-CBA-CGA-O2A
13	F2	1001	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
13	G2	202	CYC	CAA-CBA-CGA-O2A
13	J2	1001	CYC	CAA-CBA-CGA-O2A
13	L2	201	CYC	CAA-CBA-CGA-O2A
13	O2	1001	CYC	CAA-CBA-CGA-O2A
13	Q2	201	CYC	CAA-CBA-CGA-O2A
13	S2	1001	CYC	CAA-CBA-CGA-O2A
13	U2	202	CYC	CAA-CBA-CGA-O2A
13	V2	202	CYC	CAA-CBA-CGA-O2A
13	Y2	201	CYC	CAA-CBA-CGA-O2A
13	A3	301	CYC	CAA-CBA-CGA-O2A
13	B3	1001	CYC	CAA-CBA-CGA-O2A
13	D3	1001	CYC	CAA-CBA-CGA-O2A
13	J3	1001	CYC	CAA-CBA-CGA-O2A
13	L3	201	CYC	CAA-CBA-CGA-O2A
13	C4	301	CYC	CAA-CBA-CGA-O2A
13	G4	202	CYC	CAA-CBA-CGA-O2A
13	H4	1001	CYC	CAA-CBA-CGA-O2A
13	J4	1001	CYC	CAA-CBA-CGA-O2A
13	L4	201	CYC	CAA-CBA-CGA-O2A
13	Q4	201	CYC	CAA-CBA-CGA-O2A
13	S4	1001	CYC	CAA-CBA-CGA-O2A
13	U4	1001	CYC	CAA-CBA-CGA-O2A
13	V4	202	CYC	CAA-CBA-CGA-O2A
13	Z4	202	CYC	CAA-CBA-CGA-O2A
13	B5	1001	CYC	CAA-CBA-CGA-O2A
13	D5	1001	CYC	CAA-CBA-CGA-O2A
13	E5	202	CYC	CAA-CBA-CGA-O2A
13	J5	1001	CYC	CAA-CBA-CGA-O2A
13	L5	201	CYC	CAA-CBA-CGA-O2A
13	M5	1001	CYC	CAA-CBA-CGA-O2A
13	O5	1001	CYC	CAA-CBA-CGA-O2A
13	P5	203	CYC	CAA-CBA-CGA-O2A
13	S5	1001	CYC	CAA-CBA-CGA-O2A
13	U5	1001	CYC	CAA-CBA-CGA-O2A
13	Y5	201	CYC	CAA-CBA-CGA-O2A
13	B6	1001	CYC	CAA-CBA-CGA-O2A
13	D6	1001	CYC	CAA-CBA-CGA-O2A
13	F6	1001	CYC	CAA-CBA-CGA-O2A
13	H6	1001	CYC	CAA-CBA-CGA-O2A
13	S6	1001	CYC	CAA-CBA-CGA-O2A
13	U6	202	CYC	CAA-CBA-CGA-O2A
13	V6	202	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
13	W6	202	CYC	CAA-CBA-CGA-O2A
13	Y6	201	CYC	CAA-CBA-CGA-O2A
13	A7	301	CYC	CAA-CBA-CGA-O2A
13	B7	1001	CYC	CAA-CBA-CGA-O2A
13	D7	1001	CYC	CAA-CBA-CGA-O2A
13	J7	1001	CYC	CAA-CBA-CGA-O2A
13	L7	201	CYC	CAA-CBA-CGA-O2A
13	DA	1001	CYC	CAA-CBA-CGA-O2A
13	EA	202	CYC	CAA-CBA-CGA-O2A
13	GA	1001	CYC	CAA-CBA-CGA-O2A
13	LA	201	CYC	CAA-CBA-CGA-O2A
13	MA	1001	CYC	CAA-CBA-CGA-O2A
13	OA	1001	CYC	CAA-CBA-CGA-O2A
13	SA	1001	CYC	CAA-CBA-CGA-O2A
13	YA	201	CYC	CAA-CBA-CGA-O2A
13	F1	1001	CYC	CAA-CBA-CGA-O2A
13	Q1	201	CYC	CAA-CBA-CGA-O2A
13	W1	1001	CYC	CAA-CBA-CGA-O2A
13	N2	301	CYC	CAA-CBA-CGA-O2A
13	N2	302	CYC	CAA-CBA-CGA-O2A
13	R2	1001	CYC	CAA-CBA-CGA-O2A
13	W2	202	CYC	CAA-CBA-CGA-O2A
13	N3	301	CYC	CAA-CBA-CGA-O2A
13	T4	202	CYC	CAA-CBA-CGA-O2A
13	C6	201	CYC	CAA-CBA-CGA-O2A
13	Q6	201	CYC	CAA-CBA-CGA-O2A
13	N7	301	CYC	CAA-CBA-CGA-O2A
13	A8	1001	CYC	CAA-CBA-CGA-O2A
13	C8	1001	CYC	CAA-CBA-CGA-O2A
13	E8	1001	CYC	CAA-CBA-CGA-O2A
13	H8	1001	CYC	CAA-CBA-CGA-O2A
13	J8	1001	CYC	CAA-CBA-CGA-O2A
13	L8	1001	CYC	CAA-CBA-CGA-O2A
13	O8	1001	CYC	CAA-CBA-CGA-O2A
13	Q8	1001	CYC	CAA-CBA-CGA-O2A
13	S8	1001	CYC	CAA-CBA-CGA-O2A
13	V8	1001	CYC	CAA-CBA-CGA-O2A
13	X8	1001	CYC	CAA-CBA-CGA-O2A
13	Z8	1001	CYC	CAA-CBA-CGA-O2A
13	c8	1001	CYC	CAA-CBA-CGA-O2A
13	e8	1001	CYC	CAA-CBA-CGA-O2A
13	g8	1001	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
13	j8	1001	CYC	CAA-CBA-CGA-O2A
13	l8	1001	CYC	CAA-CBA-CGA-O2A
13	n8	1001	CYC	CAA-CBA-CGA-O2A
13	p8	1001	CYC	CAA-CBA-CGA-O2A
13	r8	1001	CYC	CAA-CBA-CGA-O2A
13	t8	1001	CYC	CAA-CBA-CGA-O2A
13	E9	1001	CYC	CAA-CBA-CGA-O1A
13	I9	1001	CYC	CAA-CBA-CGA-O1A
13	K9	1001	CYC	CAA-CBA-CGA-O1A
13	N9	1001	CYC	CAA-CBA-CGA-O1A
13	R9	1001	CYC	CAA-CBA-CGA-O1A
13	X9	1001	CYC	CAA-CBA-CGA-O1A
13	b9	1001	CYC	CAA-CBA-CGA-O1A
13	d9	1001	CYC	CAA-CBA-CGA-O1A
13	k9	1001	CYC	CAA-CBA-CGA-O1A
13	o9	1001	CYC	CAA-CBA-CGA-O1A
13	q9	1001	CYC	CAA-CBA-CGA-O1A
13	WA	1001	CYC	CAA-CBA-CGA-O2A
13	D1	1001	CYC	CAA-CBA-CGA-O2A
13	T1	202	CYC	CAA-CBA-CGA-O2A
13	F4	1001	CYC	CAA-CBA-CGA-O2A
13	W4	1001	CYC	CAA-CBA-CGA-O2A
13	N6	302	CYC	CAA-CBA-CGA-O2A
13	R6	1001	CYC	CAA-CBA-CGA-O2A
13	09	1202	CYC	CAA-CBA-CGA-O2A
13	A9	1001	CYC	CAA-CBA-CGA-O1A
13	C9	1001	CYC	CAA-CBA-CGA-O1A
13	G9	1001	CYC	CAA-CBA-CGA-O1A
13	P9	1001	CYC	CAA-CBA-CGA-O1A
13	T9	1001	CYC	CAA-CBA-CGA-O1A
13	Z9	1001	CYC	CAA-CBA-CGA-O1A
13	f9	1001	CYC	CAA-CBA-CGA-O1A
13	i9	1001	CYC	CAA-CBA-CGA-O1A
13	s9	1001	CYC	CAA-CBA-CGA-O1A
13	u9	1001	CYC	CAA-CBA-CGA-O1A
13	w9	1001	CYC	CAA-CBA-CGA-O1A
13	y9	1001	CYC	CAA-CBA-CGA-O1A
13	M1	201	CYC	CAA-CBA-CGA-O2A
13	M4	201	CYC	CAA-CBA-CGA-O2A
13	M5	1002	CYC	CAA-CBA-CGA-O2A
13	N6	301	CYC	CAA-CBA-CGA-O2A
13	MA	1002	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
13	A9	1001	CYC	CAA-CBA-CGA-O2A
13	C9	1001	CYC	CAA-CBA-CGA-O2A
13	E9	1001	CYC	CAA-CBA-CGA-O2A
13	G9	1001	CYC	CAA-CBA-CGA-O2A
13	I9	1001	CYC	CAA-CBA-CGA-O2A
13	K9	1001	CYC	CAA-CBA-CGA-O2A
13	N9	1001	CYC	CAA-CBA-CGA-O2A
13	P9	1001	CYC	CAA-CBA-CGA-O2A
13	R9	1001	CYC	CAA-CBA-CGA-O2A
13	T9	1001	CYC	CAA-CBA-CGA-O2A
13	X9	1001	CYC	CAA-CBA-CGA-O2A
13	Z9	1001	CYC	CAA-CBA-CGA-O2A
13	b9	1001	CYC	CAA-CBA-CGA-O2A
13	d9	1001	CYC	CAA-CBA-CGA-O2A
13	f9	1001	CYC	CAA-CBA-CGA-O2A
13	i9	1001	CYC	CAA-CBA-CGA-O2A
13	k9	1001	CYC	CAA-CBA-CGA-O2A
13	o9	1001	CYC	CAA-CBA-CGA-O2A
13	q9	1001	CYC	CAA-CBA-CGA-O2A
13	s9	1001	CYC	CAA-CBA-CGA-O2A
13	u9	1001	CYC	CAA-CBA-CGA-O2A
13	w9	1001	CYC	CAA-CBA-CGA-O2A
13	y9	1001	CYC	CAA-CBA-CGA-O2A
13	X1	202	CYC	CAA-CBA-CGA-O2A
13	M5	1002	CYC	CAD-CBD-CGD-O2D
13	Q9	201	CYC	CAA-CBA-CGA-O1A
13	E1	202	CYC	CAA-CBA-CGA-O2A
13	I1	202	CYC	CAA-CBA-CGA-O2A
13	K1	202	CYC	CAA-CBA-CGA-O2A
13	M1	201	CYC	CAD-CBD-CGD-O2D
13	T1	201	CYC	CAA-CBA-CGA-O2A
13	V1	201	CYC	CAA-CBA-CGA-O2A
13	Z1	201	CYC	CAA-CBA-CGA-O2A
13	C2	202	CYC	CAA-CBA-CGA-O2A
13	E2	202	CYC	CAA-CBA-CGA-O2A
13	I2	202	CYC	CAA-CBA-CGA-O2A
13	K2	202	CYC	CAA-CBA-CGA-O2A
13	M2	201	CYC	CAA-CBA-CGA-O2A
13	N2	301	CYC	CAD-CBD-CGD-O2D
13	T2	201	CYC	CAA-CBA-CGA-O2A
13	U2	201	CYC	CAA-CBA-CGA-O2A
13	V2	201	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
13	W2	201	CYC	CAA-CBA-CGA-O2A
13	W2	203	CYC	CAA-CBA-CGA-O2A
13	Z2	201	CYC	CAA-CBA-CGA-O2A
13	C3	201	CYC	CAA-CBA-CGA-O2A
13	E3	202	CYC	CAA-CBA-CGA-O2A
13	I3	202	CYC	CAA-CBA-CGA-O2A
13	K3	202	CYC	CAA-CBA-CGA-O2A
13	N3	301	CYC	CAD-CBD-CGD-O2D
13	E4	202	CYC	CAA-CBA-CGA-O2A
13	I4	202	CYC	CAA-CBA-CGA-O2A
13	K4	202	CYC	CAA-CBA-CGA-O2A
13	M4	201	CYC	CAD-CBD-CGD-O2D
13	T4	201	CYC	CAA-CBA-CGA-O2A
13	V4	201	CYC	CAA-CBA-CGA-O2A
13	X4	202	CYC	CAA-CBA-CGA-O2A
13	Z4	201	CYC	CAA-CBA-CGA-O2A
13	C5	201	CYC	CAA-CBA-CGA-O2A
13	E5	201	CYC	CAA-CBA-CGA-O2A
13	I5	202	CYC	CAA-CBA-CGA-O2A
13	K5	201	CYC	CAA-CBA-CGA-O2A
13	M5	1003	CYC	CAA-CBA-CGA-O2A
13	P5	202	CYC	CAA-CBA-CGA-O2A
13	T5	202	CYC	CAA-CBA-CGA-O2A
13	V5	202	CYC	CAA-CBA-CGA-O2A
13	X5	202	CYC	CAA-CBA-CGA-O2A
13	Z5	202	CYC	CAA-CBA-CGA-O2A
13	C6	202	CYC	CAA-CBA-CGA-O2A
13	E6	202	CYC	CAA-CBA-CGA-O2A
13	I6	202	CYC	CAA-CBA-CGA-O2A
13	K6	202	CYC	CAA-CBA-CGA-O2A
13	N6	301	CYC	CAD-CBD-CGD-O2D
13	T6	201	CYC	CAA-CBA-CGA-O2A
13	U6	201	CYC	CAA-CBA-CGA-O2A
13	V6	201	CYC	CAA-CBA-CGA-O2A
13	W6	201	CYC	CAA-CBA-CGA-O2A
13	X6	202	CYC	CAA-CBA-CGA-O2A
13	Z6	201	CYC	CAA-CBA-CGA-O2A
13	E7	202	CYC	CAA-CBA-CGA-O2A
13	I7	202	CYC	CAA-CBA-CGA-O2A
13	K7	202	CYC	CAA-CBA-CGA-O2A
13	N7	301	CYC	CAD-CBD-CGD-O2D
13	B8	1001	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
13	D8	1001	CYC	CAA-CBA-CGA-O2A
13	F8	1001	CYC	CAA-CBA-CGA-O2A
13	I8	1001	CYC	CAA-CBA-CGA-O2A
13	K8	1001	CYC	CAA-CBA-CGA-O2A
13	M8	1001	CYC	CAA-CBA-CGA-O2A
13	P8	1001	CYC	CAA-CBA-CGA-O2A
13	T8	1001	CYC	CAA-CBA-CGA-O2A
13	W8	1001	CYC	CAA-CBA-CGA-O2A
13	Y8	1001	CYC	CAA-CBA-CGA-O2A
13	d8	1001	CYC	CAA-CBA-CGA-O2A
13	f8	1001	CYC	CAA-CBA-CGA-O2A
13	h8	1001	CYC	CAA-CBA-CGA-O2A
13	k8	1001	CYC	CAA-CBA-CGA-O2A
13	o8	1001	CYC	CAA-CBA-CGA-O2A
13	q8	1001	CYC	CAA-CBA-CGA-O2A
13	s8	1001	CYC	CAA-CBA-CGA-O2A
13	09	1201	CYC	CAA-CBA-CGA-O2A
13	09	1202	CYC	CAA-CBA-CGA-O1A
13	19	1201	CYC	CAA-CBA-CGA-O2A
13	CA	201	CYC	CAA-CBA-CGA-O2A
13	EA	201	CYC	CAA-CBA-CGA-O2A
13	IA	202	CYC	CAA-CBA-CGA-O2A
13	KA	201	CYC	CAA-CBA-CGA-O2A
13	MA	1002	CYC	CAD-CBD-CGD-O2D
13	MA	1003	CYC	CAA-CBA-CGA-O2A
13	PA	202	CYC	CAA-CBA-CGA-O2A
13	TA	202	CYC	CAA-CBA-CGA-O2A
13	VA	202	CYC	CAA-CBA-CGA-O2A
13	XA	202	CYC	CAA-CBA-CGA-O2A
13	ZA	202	CYC	CAA-CBA-CGA-O2A
13	C1	302	CYC	CAA-CBA-CGA-O2A
13	G1	201	CYC	CAA-CBA-CGA-O2A
13	K1	201	CYC	CAA-CBA-CGA-O2A
13	M1	202	CYC	CAA-CBA-CGA-O2A
13	P1	202	CYC	CAA-CBA-CGA-O2A
13	Q1	202	CYC	CAA-CBA-CGA-O2A
13	G2	201	CYC	CAA-CBA-CGA-O2A
13	K2	201	CYC	CAA-CBA-CGA-O2A
13	G3	202	CYC	CAA-CBA-CGA-O2A
13	K3	201	CYC	CAA-CBA-CGA-O2A
13	M3	201	CYC	CAA-CBA-CGA-O2A
13	C4	302	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
13	G4	201	CYC	CAA-CBA-CGA-O2A
13	K4	201	CYC	CAA-CBA-CGA-O2A
13	M4	202	CYC	CAA-CBA-CGA-O2A
13	P4	202	CYC	CAA-CBA-CGA-O2A
13	Q4	202	CYC	CAA-CBA-CGA-O2A
13	G5	201	CYC	CAA-CBA-CGA-O2A
13	R5	201	CYC	CAA-CBA-CGA-O2A
13	G6	201	CYC	CAA-CBA-CGA-O2A
13	K6	201	CYC	CAA-CBA-CGA-O2A
13	M6	201	CYC	CAA-CBA-CGA-O2A
13	C7	201	CYC	CAA-CBA-CGA-O2A
13	G7	202	CYC	CAA-CBA-CGA-O2A
13	K7	201	CYC	CAA-CBA-CGA-O2A
13	M7	201	CYC	CAA-CBA-CGA-O2A
13	B8	1001	CYC	CAD-CBD-CGD-O2D
13	D8	1001	CYC	CAD-CBD-CGD-O2D
13	F8	1001	CYC	CAD-CBD-CGD-O2D
13	I8	1001	CYC	CAD-CBD-CGD-O2D
13	K8	1001	CYC	CAD-CBD-CGD-O2D
13	M8	1001	CYC	CAD-CBD-CGD-O2D
13	P8	1001	CYC	CAD-CBD-CGD-O2D
13	R8	1001	CYC	CAA-CBA-CGA-O2A
13	R8	1001	CYC	CAD-CBD-CGD-O2D
13	T8	1001	CYC	CAD-CBD-CGD-O2D
13	W8	1001	CYC	CAD-CBD-CGD-O2D
13	Y8	1001	CYC	CAD-CBD-CGD-O2D
13	b8	1001	CYC	CAA-CBA-CGA-O2A
13	b8	1001	CYC	CAD-CBD-CGD-O2D
13	d8	1001	CYC	CAD-CBD-CGD-O2D
13	f8	1001	CYC	CAD-CBD-CGD-O2D
13	h8	1001	CYC	CAD-CBD-CGD-O2D
13	k8	1001	CYC	CAD-CBD-CGD-O2D
13	o8	1001	CYC	CAD-CBD-CGD-O2D
13	q8	1001	CYC	CAD-CBD-CGD-O2D
13	s8	1001	CYC	CAD-CBD-CGD-O2D
13	09	1201	CYC	CAD-CBD-CGD-O2D
13	19	1201	CYC	CAD-CBD-CGD-O2D
13	GA	1002	CYC	CAA-CBA-CGA-O2A
13	RA	201	CYC	CAA-CBA-CGA-O2A
13	M8	1001	CYC	CAA-CBA-CGA-O1A
13	T8	1001	CYC	CAA-CBA-CGA-O1A
13	W8	1001	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
13	09	1201	CYC	CAA-CBA-CGA-O1A
13	V9	201	CYC	CAD-CBD-CGD-O2D
13	m9	201	CYC	CAD-CBD-CGD-O2D
13	B8	1001	CYC	CAA-CBA-CGA-O1A
13	D8	1001	CYC	CAA-CBA-CGA-O1A
13	F8	1001	CYC	CAA-CBA-CGA-O1A
13	I8	1001	CYC	CAA-CBA-CGA-O1A
13	K8	1001	CYC	CAA-CBA-CGA-O1A
13	P8	1001	CYC	CAA-CBA-CGA-O1A
13	R8	1001	CYC	CAA-CBA-CGA-O1A
13	Y8	1001	CYC	CAA-CBA-CGA-O1A
13	b8	1001	CYC	CAA-CBA-CGA-O1A
13	d8	1001	CYC	CAA-CBA-CGA-O1A
13	f8	1001	CYC	CAA-CBA-CGA-O1A
13	h8	1001	CYC	CAA-CBA-CGA-O1A
13	k8	1001	CYC	CAA-CBA-CGA-O1A
13	o8	1001	CYC	CAA-CBA-CGA-O1A
13	q8	1001	CYC	CAA-CBA-CGA-O1A
13	s8	1001	CYC	CAA-CBA-CGA-O1A
13	19	1201	CYC	CAA-CBA-CGA-O1A
13	G1	202	CYC	CAA-CBA-CGA-O1A
13	Z1	201	CYC	CAA-CBA-CGA-O1A
13	D2	1001	CYC	CAA-CBA-CGA-O1A
13	T2	201	CYC	CAA-CBA-CGA-O1A
13	Z2	201	CYC	CAA-CBA-CGA-O1A
13	Z4	201	CYC	CAA-CBA-CGA-O1A
13	T6	201	CYC	CAA-CBA-CGA-O1A
13	Z6	201	CYC	CAA-CBA-CGA-O1A
13	E1	202	CYC	CAA-CBA-CGA-O1A
13	P1	202	CYC	CAA-CBA-CGA-O1A
13	O2	1001	CYC	CAA-CBA-CGA-O1A
13	U2	201	CYC	CAA-CBA-CGA-O1A
13	W2	201	CYC	CAA-CBA-CGA-O1A
13	E3	202	CYC	CAA-CBA-CGA-O1A
13	I3	202	CYC	CAA-CBA-CGA-O1A
13	E4	202	CYC	CAA-CBA-CGA-O1A
13	G4	202	CYC	CAA-CBA-CGA-O1A
13	Q4	202	CYC	CAA-CBA-CGA-O1A
13	Z5	202	CYC	CAA-CBA-CGA-O1A
13	D6	1001	CYC	CAA-CBA-CGA-O1A
13	U6	201	CYC	CAA-CBA-CGA-O1A
13	W6	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
13	E7	202	CYC	CAA-CBA-CGA-O1A
13	EA	201	CYC	CAA-CBA-CGA-O1A
13	TA	202	CYC	CAA-CBA-CGA-O1A
13	ZA	202	CYC	CAA-CBA-CGA-O1A
13	B1	1001	CYC	CAA-CBA-CGA-O1A
13	C1	301	CYC	CAA-CBA-CGA-O1A
13	D1	1001	CYC	CAA-CBA-CGA-O1A
13	F1	1001	CYC	CAA-CBA-CGA-O1A
13	G1	201	CYC	CAA-CBA-CGA-O1A
13	H1	1001	CYC	CAA-CBA-CGA-O1A
13	L1	201	CYC	CAA-CBA-CGA-O1A
13	O1	1001	CYC	CAA-CBA-CGA-O1A
13	Q1	201	CYC	CAA-CBA-CGA-O1A
13	Q1	202	CYC	CAA-CBA-CGA-O1A
13	R1	1001	CYC	CAA-CBA-CGA-O1A
13	S1	1001	CYC	CAA-CBA-CGA-O1A
13	T1	202	CYC	CAA-CBA-CGA-O1A
13	V1	202	CYC	CAA-CBA-CGA-O1A
13	W1	1001	CYC	CAA-CBA-CGA-O1A
13	Y1	201	CYC	CAA-CBA-CGA-O1A
13	Z1	202	CYC	CAA-CBA-CGA-O1A
13	B2	1001	CYC	CAA-CBA-CGA-O1A
13	E2	202	CYC	CAA-CBA-CGA-O1A
13	F2	1001	CYC	CAA-CBA-CGA-O1A
13	G2	201	CYC	CAA-CBA-CGA-O1A
13	G2	202	CYC	CAA-CBA-CGA-O1A
13	H2	1001	CYC	CAA-CBA-CGA-O1A
13	J2	1001	CYC	CAA-CBA-CGA-O1A
13	N2	302	CYC	CAA-CBA-CGA-O1A
13	Q2	201	CYC	CAA-CBA-CGA-O1A
13	R2	1001	CYC	CAA-CBA-CGA-O1A
13	U2	202	CYC	CAA-CBA-CGA-O1A
13	V2	202	CYC	CAA-CBA-CGA-O1A
13	W2	202	CYC	CAA-CBA-CGA-O1A
13	Y2	201	CYC	CAA-CBA-CGA-O1A
13	Z2	202	CYC	CAA-CBA-CGA-O1A
13	A3	301	CYC	CAA-CBA-CGA-O1A
13	B3	1001	CYC	CAA-CBA-CGA-O1A
13	D3	1001	CYC	CAA-CBA-CGA-O1A
13	F3	1001	CYC	CAA-CBA-CGA-O1A
13	G3	201	CYC	CAA-CBA-CGA-O1A
13	H3	1001	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
13	J3	1001	CYC	CAA-CBA-CGA-O1A
13	B4	1001	CYC	CAA-CBA-CGA-O1A
13	C4	301	CYC	CAA-CBA-CGA-O1A
13	D4	1001	CYC	CAA-CBA-CGA-O1A
13	F4	1001	CYC	CAA-CBA-CGA-O1A
13	H4	1001	CYC	CAA-CBA-CGA-O1A
13	L4	201	CYC	CAA-CBA-CGA-O1A
13	O4	1001	CYC	CAA-CBA-CGA-O1A
13	P4	202	CYC	CAA-CBA-CGA-O1A
13	R4	1001	CYC	CAA-CBA-CGA-O1A
13	T4	201	CYC	CAA-CBA-CGA-O1A
13	T4	202	CYC	CAA-CBA-CGA-O1A
13	U4	1001	CYC	CAA-CBA-CGA-O1A
13	V4	202	CYC	CAA-CBA-CGA-O1A
13	W4	1001	CYC	CAA-CBA-CGA-O1A
13	Y4	201	CYC	CAA-CBA-CGA-O1A
13	Z4	202	CYC	CAA-CBA-CGA-O1A
13	B5	1001	CYC	CAA-CBA-CGA-O1A
13	D5	1001	CYC	CAA-CBA-CGA-O1A
13	E5	201	CYC	CAA-CBA-CGA-O1A
13	E5	202	CYC	CAA-CBA-CGA-O1A
13	J5	1001	CYC	CAA-CBA-CGA-O1A
13	L5	201	CYC	CAA-CBA-CGA-O1A
13	M5	1001	CYC	CAA-CBA-CGA-O1A
13	O5	1001	CYC	CAA-CBA-CGA-O1A
13	P5	203	CYC	CAA-CBA-CGA-O1A
13	R5	201	CYC	CAA-CBA-CGA-O1A
13	S5	1001	CYC	CAA-CBA-CGA-O1A
13	T5	202	CYC	CAA-CBA-CGA-O1A
13	U5	1001	CYC	CAA-CBA-CGA-O1A
13	W5	1001	CYC	CAA-CBA-CGA-O1A
13	Y5	201	CYC	CAA-CBA-CGA-O1A
13	B6	1001	CYC	CAA-CBA-CGA-O1A
13	E6	202	CYC	CAA-CBA-CGA-O1A
13	F6	1001	CYC	CAA-CBA-CGA-O1A
13	G6	201	CYC	CAA-CBA-CGA-O1A
13	G6	202	CYC	CAA-CBA-CGA-O1A
13	H6	1001	CYC	CAA-CBA-CGA-O1A
13	J6	1001	CYC	CAA-CBA-CGA-O1A
13	N6	302	CYC	CAA-CBA-CGA-O1A
13	O6	1001	CYC	CAA-CBA-CGA-O1A
13	R6	1001	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
13	S6	1001	CYC	CAA-CBA-CGA-O1A
13	U6	202	CYC	CAA-CBA-CGA-O1A
13	V6	202	CYC	CAA-CBA-CGA-O1A
13	W6	202	CYC	CAA-CBA-CGA-O1A
13	Y6	201	CYC	CAA-CBA-CGA-O1A
13	Z6	202	CYC	CAA-CBA-CGA-O1A
13	A7	301	CYC	CAA-CBA-CGA-O1A
13	B7	1001	CYC	CAA-CBA-CGA-O1A
13	D7	1001	CYC	CAA-CBA-CGA-O1A
13	F7	1001	CYC	CAA-CBA-CGA-O1A
13	G7	201	CYC	CAA-CBA-CGA-O1A
13	H7	1001	CYC	CAA-CBA-CGA-O1A
13	I7	202	CYC	CAA-CBA-CGA-O1A
13	J7	1001	CYC	CAA-CBA-CGA-O1A
13	DA	1001	CYC	CAA-CBA-CGA-O1A
13	EA	202	CYC	CAA-CBA-CGA-O1A
13	GA	1001	CYC	CAA-CBA-CGA-O1A
13	JA	1001	CYC	CAA-CBA-CGA-O1A
13	LA	201	CYC	CAA-CBA-CGA-O1A
13	MA	1001	CYC	CAA-CBA-CGA-O1A
13	OA	1001	CYC	CAA-CBA-CGA-O1A
13	PA	202	CYC	CAA-CBA-CGA-O1A
13	PA	203	CYC	CAA-CBA-CGA-O1A
13	SA	1001	CYC	CAA-CBA-CGA-O1A
13	UA	1001	CYC	CAA-CBA-CGA-O1A
13	WA	1001	CYC	CAA-CBA-CGA-O1A
13	YA	201	CYC	CAA-CBA-CGA-O1A
13	C1	302	CYC	CAA-CBA-CGA-O1A
13	I1	202	CYC	CAA-CBA-CGA-O1A
13	K1	201	CYC	CAA-CBA-CGA-O1A
13	K1	202	CYC	CAA-CBA-CGA-O1A
13	T1	201	CYC	CAA-CBA-CGA-O1A
13	U1	1001	CYC	CAA-CBA-CGA-O1A
13	V1	201	CYC	CAA-CBA-CGA-O1A
13	X1	202	CYC	CAA-CBA-CGA-O1A
13	C2	202	CYC	CAA-CBA-CGA-O1A
13	I2	202	CYC	CAA-CBA-CGA-O1A
13	K2	201	CYC	CAA-CBA-CGA-O1A
13	S2	1001	CYC	CAA-CBA-CGA-O1A
13	W2	203	CYC	CAA-CBA-CGA-O1A
13	C3	201	CYC	CAA-CBA-CGA-O1A
13	G3	202	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
13	K3	202	CYC	CAA-CBA-CGA-O1A
13	L3	201	CYC	CAA-CBA-CGA-O1A
13	G4	201	CYC	CAA-CBA-CGA-O1A
13	I4	202	CYC	CAA-CBA-CGA-O1A
13	J4	1001	CYC	CAA-CBA-CGA-O1A
13	K4	201	CYC	CAA-CBA-CGA-O1A
13	Q4	201	CYC	CAA-CBA-CGA-O1A
13	S4	1001	CYC	CAA-CBA-CGA-O1A
13	V4	201	CYC	CAA-CBA-CGA-O1A
13	G5	201	CYC	CAA-CBA-CGA-O1A
13	I5	202	CYC	CAA-CBA-CGA-O1A
13	K5	201	CYC	CAA-CBA-CGA-O1A
13	P5	202	CYC	CAA-CBA-CGA-O1A
13	V5	202	CYC	CAA-CBA-CGA-O1A
13	C6	201	CYC	CAA-CBA-CGA-O1A
13	C6	202	CYC	CAA-CBA-CGA-O1A
13	I6	202	CYC	CAA-CBA-CGA-O1A
13	K6	201	CYC	CAA-CBA-CGA-O1A
13	K6	202	CYC	CAA-CBA-CGA-O1A
13	L6	201	CYC	CAA-CBA-CGA-O1A
13	X6	202	CYC	CAA-CBA-CGA-O1A
13	C7	201	CYC	CAA-CBA-CGA-O1A
13	G7	202	CYC	CAA-CBA-CGA-O1A
13	K7	202	CYC	CAA-CBA-CGA-O1A
13	M7	201	CYC	CAA-CBA-CGA-O1A
13	IA	202	CYC	CAA-CBA-CGA-O1A
13	KA	201	CYC	CAA-CBA-CGA-O1A
13	RA	201	CYC	CAA-CBA-CGA-O1A
13	VA	202	CYC	CAA-CBA-CGA-O1A
13	J1	1001	CYC	CAA-CBA-CGA-O1A
13	M1	202	CYC	CAA-CBA-CGA-O1A
13	C2	201	CYC	CAA-CBA-CGA-O1A
13	K2	202	CYC	CAA-CBA-CGA-O1A
13	L2	201	CYC	CAA-CBA-CGA-O1A
13	K3	201	CYC	CAA-CBA-CGA-O1A
13	C4	302	CYC	CAA-CBA-CGA-O1A
13	K4	202	CYC	CAA-CBA-CGA-O1A
13	X4	202	CYC	CAA-CBA-CGA-O1A
13	M5	1003	CYC	CAA-CBA-CGA-O1A
13	Q6	201	CYC	CAA-CBA-CGA-O1A
13	K7	201	CYC	CAA-CBA-CGA-O1A
13	L7	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
13	CA	201	CYC	CAA-CBA-CGA-O1A
13	GA	1002	CYC	CAA-CBA-CGA-O1A
13	XA	202	CYC	CAA-CBA-CGA-O1A
13	M1	201	CYC	CAD-CBD-CGD-O1D
13	M2	201	CYC	CAA-CBA-CGA-O1A
13	N2	301	CYC	CAD-CBD-CGD-O1D
13	V2	201	CYC	CAA-CBA-CGA-O1A
13	M3	201	CYC	CAA-CBA-CGA-O1A
13	N3	301	CYC	CAD-CBD-CGD-O1D
13	M4	201	CYC	CAD-CBD-CGD-O1D
13	M4	202	CYC	CAA-CBA-CGA-O1A
13	C5	201	CYC	CAA-CBA-CGA-O1A
13	M5	1002	CYC	CAD-CBD-CGD-O1D
13	X5	202	CYC	CAA-CBA-CGA-O1A
13	M6	201	CYC	CAA-CBA-CGA-O1A
13	N6	301	CYC	CAD-CBD-CGD-O1D
13	V6	201	CYC	CAA-CBA-CGA-O1A
13	N7	301	CYC	CAD-CBD-CGD-O1D
13	09	1203	CYC	CAD-CBD-CGD-O2D
13	19	1203	CYC	CAD-CBD-CGD-O2D
13	B9	1001	CYC	CAD-CBD-CGD-O2D
13	H9	1001	CYC	CAD-CBD-CGD-O2D
13	c9	1001	CYC	CAD-CBD-CGD-O2D
13	l9	1001	CYC	CAD-CBD-CGD-O2D
13	x9	1001	CYC	CAD-CBD-CGD-O2D
13	MA	1002	CYC	CAD-CBD-CGD-O1D
13	MA	1003	CYC	CAA-CBA-CGA-O1A
13	19	1204	CYC	CAD-CBD-CGD-O2D
13	19	1205	CYC	CAD-CBD-CGD-O2D
13	29	1001	CYC	CAD-CBD-CGD-O2D
13	39	1001	CYC	CAD-CBD-CGD-O2D
13	D9	1001	CYC	CAD-CBD-CGD-O2D
13	F9	1001	CYC	CAD-CBD-CGD-O2D
13	J9	1001	CYC	CAD-CBD-CGD-O2D
13	L9	1001	CYC	CAD-CBD-CGD-O2D
13	O9	1001	CYC	CAD-CBD-CGD-O2D
13	U9	1001	CYC	CAD-CBD-CGD-O2D
13	e9	1001	CYC	CAD-CBD-CGD-O2D
13	p9	1001	CYC	CAD-CBD-CGD-O2D
13	r9	1001	CYC	CAD-CBD-CGD-O2D
13	t9	1001	CYC	CAD-CBD-CGD-O2D
13	v9	1001	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
13	z9	1001	CYC	CAD-CBD-CGD-O2D
13	P1	201	CYC	CAA-CBA-CGA-O2A
13	j9	1001	CYC	CAD-CBD-CGD-O2D
13	P2	201	CYC	CAA-CBA-CGA-O2A
13	P4	201	CYC	CAA-CBA-CGA-O2A
13	P6	201	CYC	CAA-CBA-CGA-O2A
13	Q9	201	CYC	CAD-CBD-CGD-O2D
13	S9	1001	CYC	CAD-CBD-CGD-O2D
13	G1	201	CYC	CAD-CBD-CGD-O2D
13	I1	202	CYC	CAD-CBD-CGD-O2D
13	K1	201	CYC	CAD-CBD-CGD-O2D
13	M1	202	CYC	CAD-CBD-CGD-O2D
13	P1	202	CYC	CAD-CBD-CGD-O2D
13	E2	202	CYC	CAD-CBD-CGD-O2D
13	G2	201	CYC	CAD-CBD-CGD-O2D
13	I2	202	CYC	CAD-CBD-CGD-O2D
13	K2	201	CYC	CAD-CBD-CGD-O2D
13	M2	201	CYC	CAD-CBD-CGD-O2D
13	W2	201	CYC	CAD-CBD-CGD-O2D
13	I3	202	CYC	CAD-CBD-CGD-O2D
13	K3	201	CYC	CAD-CBD-CGD-O2D
13	M3	201	CYC	CAD-CBD-CGD-O2D
13	I4	202	CYC	CAD-CBD-CGD-O2D
13	K4	201	CYC	CAD-CBD-CGD-O2D
13	P4	202	CYC	CAD-CBD-CGD-O2D
13	E5	201	CYC	CAD-CBD-CGD-O2D
13	G5	201	CYC	CAD-CBD-CGD-O2D
13	I5	202	CYC	CAD-CBD-CGD-O2D
13	P5	201	CYC	CAA-CBA-CGA-O2A
13	P5	202	CYC	CAD-CBD-CGD-O2D
13	G6	201	CYC	CAD-CBD-CGD-O2D
13	I6	202	CYC	CAD-CBD-CGD-O2D
13	K6	201	CYC	CAD-CBD-CGD-O2D
13	T6	201	CYC	CAD-CBD-CGD-O2D
13	V6	201	CYC	CAD-CBD-CGD-O2D
13	W6	201	CYC	CAD-CBD-CGD-O2D
13	I7	202	CYC	CAD-CBD-CGD-O2D
13	K7	201	CYC	CAD-CBD-CGD-O2D
13	M7	201	CYC	CAD-CBD-CGD-O2D
13	19	1202	CYC	CAA-CBA-CGA-O2A
13	EA	201	CYC	CAD-CBD-CGD-O2D
13	IA	202	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
13	PA	201	CYC	CAA-CBA-CGA-O2A
13	PA	202	CYC	CAD-CBD-CGD-O2D
13	E1	201	CYC	CAA-CBA-CGA-O1A
13	E1	202	CYC	CAD-CBD-CGD-O2D
13	T1	201	CYC	CAD-CBD-CGD-O2D
13	V1	201	CYC	CAD-CBD-CGD-O2D
13	Z1	201	CYC	CAD-CBD-CGD-O2D
13	E2	201	CYC	CAA-CBA-CGA-O1A
13	T2	201	CYC	CAD-CBD-CGD-O2D
13	V2	201	CYC	CAD-CBD-CGD-O2D
13	E3	202	CYC	CAD-CBD-CGD-O2D
13	G3	202	CYC	CAD-CBD-CGD-O2D
13	E4	201	CYC	CAA-CBA-CGA-O1A
13	E4	202	CYC	CAD-CBD-CGD-O2D
13	G4	201	CYC	CAD-CBD-CGD-O2D
13	M4	202	CYC	CAD-CBD-CGD-O2D
13	T4	201	CYC	CAD-CBD-CGD-O2D
13	V4	201	CYC	CAD-CBD-CGD-O2D
13	Z4	201	CYC	CAD-CBD-CGD-O2D
13	C5	201	CYC	CAD-CBD-CGD-O2D
13	K5	201	CYC	CAD-CBD-CGD-O2D
13	M5	1003	CYC	CAD-CBD-CGD-O2D
13	V5	202	CYC	CAD-CBD-CGD-O2D
13	E6	201	CYC	CAA-CBA-CGA-O1A
13	E6	202	CYC	CAD-CBD-CGD-O2D
13	M6	201	CYC	CAD-CBD-CGD-O2D
13	U6	201	CYC	CAD-CBD-CGD-O2D
13	Z6	201	CYC	CAD-CBD-CGD-O2D
13	C7	201	CYC	CAD-CBD-CGD-O2D
13	E7	202	CYC	CAD-CBD-CGD-O2D
13	G7	202	CYC	CAD-CBD-CGD-O2D
13	AA	301	CYC	CAA-CBA-CGA-O1A
13	CA	201	CYC	CAD-CBD-CGD-O2D
13	GA	1002	CYC	CAD-CBD-CGD-O2D
13	MA	1003	CYC	CAD-CBD-CGD-O2D
13	VA	202	CYC	CAD-CBD-CGD-O2D
13	I1	202	CYC	CAD-CBD-CGD-O1D
13	I2	202	CYC	CAD-CBD-CGD-O1D
13	W2	203	CYC	CAD-CBD-CGD-O1D
13	E3	201	CYC	CAA-CBA-CGA-O1A
13	I3	202	CYC	CAD-CBD-CGD-O1D
13	I4	202	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
13	A5	301	CYC	CAA-CBA-CGA-O1A
13	A5	302	CYC	CAA-CBA-CGA-O1A
13	I6	202	CYC	CAD-CBD-CGD-O1D
13	E7	201	CYC	CAA-CBA-CGA-O1A
13	I7	202	CYC	CAD-CBD-CGD-O1D
13	19	1202	CYC	CAA-CBA-CGA-O1A
13	g9	1001	CYC	CAA-CBA-CGA-O1A
13	AA	302	CYC	CAA-CBA-CGA-O1A
13	KA	201	CYC	CAD-CBD-CGD-O2D
13	C1	302	CYC	CAD-CBD-CGD-O2D
13	Q1	202	CYC	CAD-CBD-CGD-O2D
13	X1	202	CYC	CAD-CBD-CGD-O1D
13	X1	202	CYC	CAD-CBD-CGD-O2D
13	Z1	201	CYC	CAD-CBD-CGD-O1D
13	U2	201	CYC	CAD-CBD-CGD-O2D
13	W2	203	CYC	CAD-CBD-CGD-O2D
13	Z2	201	CYC	CAD-CBD-CGD-O1D
13	Z2	201	CYC	CAD-CBD-CGD-O2D
13	C3	201	CYC	CAD-CBD-CGD-O1D
13	C3	201	CYC	CAD-CBD-CGD-O2D
13	Q4	202	CYC	CAD-CBD-CGD-O2D
13	X4	202	CYC	CAD-CBD-CGD-O1D
13	A5	301	CYC	CAA-CBA-CGA-O2A
13	I5	202	CYC	CAD-CBD-CGD-O1D
13	X5	202	CYC	CAD-CBD-CGD-O1D
13	X5	202	CYC	CAD-CBD-CGD-O2D
13	Z5	202	CYC	CAD-CBD-CGD-O2D
13	C6	202	CYC	CAD-CBD-CGD-O1D
13	K6	202	CYC	CAD-CBD-CGD-O2D
13	X6	202	CYC	CAD-CBD-CGD-O2D
13	C7	201	CYC	CAD-CBD-CGD-O1D
13	09	1202	CYC	CAD-CBD-CGD-O1D
13	g9	1001	CYC	CAA-CBA-CGA-O2A
13	IA	202	CYC	CAD-CBD-CGD-O1D
13	XA	202	CYC	CAD-CBD-CGD-O1D
13	XA	202	CYC	CAD-CBD-CGD-O2D
13	ZA	202	CYC	CAD-CBD-CGD-O1D
13	k9	1001	CYC	C2B-C3B-CAB-CBB
13	C1	302	CYC	CAD-CBD-CGD-O1D
13	E1	201	CYC	CAA-CBA-CGA-O2A
13	E1	202	CYC	CAD-CBD-CGD-O1D
13	G1	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
13	K1	201	CYC	CAD-CBD-CGD-O1D
13	K1	202	CYC	CAD-CBD-CGD-O1D
13	K1	202	CYC	CAD-CBD-CGD-O2D
13	M1	202	CYC	CAD-CBD-CGD-O1D
13	P1	202	CYC	CAD-CBD-CGD-O1D
13	Q1	202	CYC	CAD-CBD-CGD-O1D
13	T1	201	CYC	CAD-CBD-CGD-O1D
13	V1	201	CYC	CAD-CBD-CGD-O1D
13	C2	202	CYC	CAD-CBD-CGD-O1D
13	C2	202	CYC	CAD-CBD-CGD-O2D
13	E2	201	CYC	CAA-CBA-CGA-O2A
13	E2	202	CYC	CAD-CBD-CGD-O1D
13	G2	201	CYC	CAD-CBD-CGD-O1D
13	K2	201	CYC	CAD-CBD-CGD-O1D
13	K2	202	CYC	CAD-CBD-CGD-O1D
13	K2	202	CYC	CAD-CBD-CGD-O2D
13	M2	201	CYC	CAD-CBD-CGD-O1D
13	T2	201	CYC	CAD-CBD-CGD-O1D
13	U2	201	CYC	CAD-CBD-CGD-O1D
13	V2	201	CYC	CAD-CBD-CGD-O1D
13	W2	201	CYC	CAD-CBD-CGD-O1D
13	E3	201	CYC	CAA-CBA-CGA-O2A
13	E3	202	CYC	CAD-CBD-CGD-O1D
13	G3	202	CYC	CAD-CBD-CGD-O1D
13	K3	201	CYC	CAD-CBD-CGD-O1D
13	K3	202	CYC	CAD-CBD-CGD-O1D
13	K3	202	CYC	CAD-CBD-CGD-O2D
13	M3	201	CYC	CAD-CBD-CGD-O1D
13	C4	302	CYC	CAD-CBD-CGD-O1D
13	C4	302	CYC	CAD-CBD-CGD-O2D
13	E4	201	CYC	CAA-CBA-CGA-O2A
13	E4	202	CYC	CAD-CBD-CGD-O1D
13	G4	201	CYC	CAD-CBD-CGD-O1D
13	K4	201	CYC	CAD-CBD-CGD-O1D
13	K4	202	CYC	CAD-CBD-CGD-O1D
13	K4	202	CYC	CAD-CBD-CGD-O2D
13	M4	202	CYC	CAD-CBD-CGD-O1D
13	P4	202	CYC	CAD-CBD-CGD-O1D
13	Q4	202	CYC	CAD-CBD-CGD-O1D
13	T4	201	CYC	CAD-CBD-CGD-O1D
13	V4	201	CYC	CAD-CBD-CGD-O1D
13	X4	202	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
13	Z4	201	CYC	CAD-CBD-CGD-O1D
13	A5	302	CYC	CAA-CBA-CGA-O2A
13	C5	201	CYC	CAD-CBD-CGD-O1D
13	E5	201	CYC	CAD-CBD-CGD-O1D
13	G5	201	CYC	CAD-CBD-CGD-O1D
13	K5	201	CYC	CAD-CBD-CGD-O1D
13	M5	1003	CYC	CAD-CBD-CGD-O1D
13	P5	202	CYC	CAD-CBD-CGD-O1D
13	R5	201	CYC	CAD-CBD-CGD-O1D
13	R5	201	CYC	CAD-CBD-CGD-O2D
13	T5	202	CYC	CAD-CBD-CGD-O1D
13	T5	202	CYC	CAD-CBD-CGD-O2D
13	V5	202	CYC	CAD-CBD-CGD-O1D
13	Z5	202	CYC	CAD-CBD-CGD-O1D
13	C6	202	CYC	CAD-CBD-CGD-O2D
13	E6	201	CYC	CAA-CBA-CGA-O2A
13	E6	202	CYC	CAD-CBD-CGD-O1D
13	G6	201	CYC	CAD-CBD-CGD-O1D
13	K6	201	CYC	CAD-CBD-CGD-O1D
13	K6	202	CYC	CAD-CBD-CGD-O1D
13	M6	201	CYC	CAD-CBD-CGD-O1D
13	T6	201	CYC	CAD-CBD-CGD-O1D
13	U6	201	CYC	CAD-CBD-CGD-O1D
13	V6	201	CYC	CAD-CBD-CGD-O1D
13	W6	201	CYC	CAD-CBD-CGD-O1D
13	X6	202	CYC	CAD-CBD-CGD-O1D
13	Z6	201	CYC	CAD-CBD-CGD-O1D
13	E7	201	CYC	CAA-CBA-CGA-O2A
13	E7	202	CYC	CAD-CBD-CGD-O1D
13	G7	202	CYC	CAD-CBD-CGD-O1D
13	K7	201	CYC	CAD-CBD-CGD-O1D
13	K7	202	CYC	CAD-CBD-CGD-O1D
13	K7	202	CYC	CAD-CBD-CGD-O2D
13	M7	201	CYC	CAD-CBD-CGD-O1D
13	AA	301	CYC	CAA-CBA-CGA-O2A
13	AA	302	CYC	CAA-CBA-CGA-O2A
13	CA	201	CYC	CAD-CBD-CGD-O1D
13	EA	201	CYC	CAD-CBD-CGD-O1D
13	GA	1002	CYC	CAD-CBD-CGD-O1D
13	KA	201	CYC	CAD-CBD-CGD-O1D
13	MA	1003	CYC	CAD-CBD-CGD-O1D
13	PA	202	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
13	RA	201	CYC	CAD-CBD-CGD-O1D
13	RA	201	CYC	CAD-CBD-CGD-O2D
13	TA	202	CYC	CAD-CBD-CGD-O1D
13	TA	202	CYC	CAD-CBD-CGD-O2D
13	VA	202	CYC	CAD-CBD-CGD-O1D
13	ZA	202	CYC	CAD-CBD-CGD-O2D
13	C9	1001	CYC	C2B-C3B-CAB-CBB
13	o9	1001	CYC	C2B-C3B-CAB-CBB
13	K9	1001	CYC	C2B-C3B-CAB-CBB
13	R9	1001	CYC	C2B-C3B-CAB-CBB
13	X9	1001	CYC	C2B-C3B-CAB-CBB
13	Z9	1001	CYC	C2B-C3B-CAB-CBB
13	b9	1001	CYC	C2B-C3B-CAB-CBB
13	d9	1001	CYC	C2B-C3B-CAB-CBB
13	i9	1001	CYC	C2B-C3B-CAB-CBB
13	09	1203	CYC	CAD-CBD-CGD-O1D
13	19	1203	CYC	CAD-CBD-CGD-O1D
13	19	1204	CYC	CAD-CBD-CGD-O1D
13	19	1205	CYC	CAD-CBD-CGD-O1D
13	29	1001	CYC	CAD-CBD-CGD-O1D
13	39	1001	CYC	CAD-CBD-CGD-O1D
13	D9	1001	CYC	CAD-CBD-CGD-O1D
13	F9	1001	CYC	CAD-CBD-CGD-O1D
13	H9	1001	CYC	CAD-CBD-CGD-O1D
13	J9	1001	CYC	CAD-CBD-CGD-O1D
13	L9	1001	CYC	CAD-CBD-CGD-O1D
13	c9	1001	CYC	CAD-CBD-CGD-O1D
13	l9	1001	CYC	CAD-CBD-CGD-O1D
13	v9	1001	CYC	CAD-CBD-CGD-O1D
13	A9	1001	CYC	C2B-C3B-CAB-CBB
13	E9	1001	CYC	C2B-C3B-CAB-CBB
13	T9	1001	CYC	C2B-C3B-CAB-CBB
13	u9	1001	CYC	C2B-C3B-CAB-CBB
13	09	1202	CYC	CAD-CBD-CGD-O2D
13	B9	1001	CYC	CAD-CBD-CGD-O1D
13	O9	1001	CYC	CAD-CBD-CGD-O1D
13	S9	1001	CYC	CAD-CBD-CGD-O1D
13	U9	1001	CYC	CAD-CBD-CGD-O1D
13	e9	1001	CYC	CAD-CBD-CGD-O1D
13	j9	1001	CYC	CAD-CBD-CGD-O1D
13	p9	1001	CYC	CAD-CBD-CGD-O1D
13	r9	1001	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
13	t9	1001	CYC	CAD-CBD-CGD-O1D
13	x9	1001	CYC	CAD-CBD-CGD-O1D
13	z9	1001	CYC	CAD-CBD-CGD-O1D
13	G9	1001	CYC	C2B-C3B-CAB-CBB
13	f9	1001	CYC	C2B-C3B-CAB-CBB
13	N9	1001	CYC	C2B-C3B-CAB-CBB
13	q9	1001	CYC	C2B-C3B-CAB-CBB
13	s9	1001	CYC	C2B-C3B-CAB-CBB
13	P9	1001	CYC	C2B-C3B-CAB-CBB
13	w9	1001	CYC	C2B-C3B-CAB-CBB
13	I9	1001	CYC	C2B-C3B-CAB-CBB
13	y9	1001	CYC	C2B-C3B-CAB-CBB
13	P5	201	CYC	CAA-CBA-CGA-O1A
13	P6	201	CYC	CAA-CBA-CGA-O1A
13	19	1202	CYC	C2B-C3B-CAB-CBB
13	P1	201	CYC	CAD-CBD-CGD-O2D
13	P2	201	CYC	CAD-CBD-CGD-O2D
13	P4	201	CYC	CAD-CBD-CGD-O2D
13	P2	201	CYC	CAA-CBA-CGA-O1A
13	P5	201	CYC	CAD-CBD-CGD-O2D
13	P6	201	CYC	CAD-CBD-CGD-O2D
13	PA	201	CYC	CAA-CBA-CGA-O1A
13	PA	201	CYC	CAD-CBD-CGD-O2D
13	09	1203	CYC	C3D-CAD-CBD-CGD
13	19	1203	CYC	C3D-CAD-CBD-CGD
13	19	1204	CYC	C3D-CAD-CBD-CGD
13	19	1205	CYC	C3D-CAD-CBD-CGD
13	29	1001	CYC	C3D-CAD-CBD-CGD
13	39	1001	CYC	C3D-CAD-CBD-CGD
13	B9	1001	CYC	C3D-CAD-CBD-CGD
13	D9	1001	CYC	C3D-CAD-CBD-CGD
13	F9	1001	CYC	C3D-CAD-CBD-CGD
13	H9	1001	CYC	C3D-CAD-CBD-CGD
13	J9	1001	CYC	C3D-CAD-CBD-CGD
13	L9	1001	CYC	C3D-CAD-CBD-CGD
13	O9	1001	CYC	C3D-CAD-CBD-CGD
13	S9	1001	CYC	C3D-CAD-CBD-CGD
13	U9	1001	CYC	C3D-CAD-CBD-CGD
13	c9	1001	CYC	C3D-CAD-CBD-CGD
13	e9	1001	CYC	C3D-CAD-CBD-CGD
13	j9	1001	CYC	C3D-CAD-CBD-CGD
13	l9	1001	CYC	C3D-CAD-CBD-CGD

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Mol	Chain	Res	Type	Atoms
13	p9	1001	CYC	C3D-CAD-CBD-CGD
13	r9	1001	CYC	C3D-CAD-CBD-CGD
13	t9	1001	CYC	C3D-CAD-CBD-CGD
13	v9	1001	CYC	C3D-CAD-CBD-CGD
13	x9	1001	CYC	C3D-CAD-CBD-CGD
13	z9	1001	CYC	C3D-CAD-CBD-CGD
13	P1	201	CYC	CAA-CBA-CGA-O1A
13	P4	201	CYC	CAA-CBA-CGA-O1A
13	A5	303	CYC	CAD-CBD-CGD-O2D
13	A5	304	CYC	CAD-CBD-CGD-O2D
13	N5	301	CYC	CAD-CBD-CGD-O2D
13	NA	301	CYC	CAD-CBD-CGD-O2D
13	X2	201	CYC	CAD-CBD-CGD-O2D
13	I3	201	CYC	CAD-CBD-CGD-O2D
13	I4	201	CYC	CAD-CBD-CGD-O2D
13	X4	201	CYC	CAD-CBD-CGD-O2D
13	I5	201	CYC	CAD-CBD-CGD-O2D
13	T5	201	CYC	CAD-CBD-CGD-O2D
13	V5	201	CYC	CAD-CBD-CGD-O2D
13	X5	201	CYC	CAD-CBD-CGD-O2D
13	Z5	201	CYC	CAD-CBD-CGD-O2D
13	I6	201	CYC	CAD-CBD-CGD-O2D
13	I7	201	CYC	CAD-CBD-CGD-O2D
13	AA	303	CYC	CAD-CBD-CGD-O2D
13	AA	304	CYC	CAD-CBD-CGD-O2D
13	IA	201	CYC	CAD-CBD-CGD-O2D
13	VA	201	CYC	CAD-CBD-CGD-O2D
13	XA	201	CYC	CAD-CBD-CGD-O2D
13	ZA	201	CYC	CAD-CBD-CGD-O2D
13	I1	201	CYC	CAD-CBD-CGD-O2D
13	X1	201	CYC	CAD-CBD-CGD-O2D
13	I2	201	CYC	CAD-CBD-CGD-O2D
13	X6	201	CYC	CAD-CBD-CGD-O2D
13	TA	201	CYC	CAD-CBD-CGD-O2D
13	A5	303	CYC	CAD-CBD-CGD-O1D
13	A5	304	CYC	CAD-CBD-CGD-O1D
13	ZA	201	CYC	CAD-CBD-CGD-O1D
13	N5	301	CYC	CAD-CBD-CGD-O1D
13	Z5	201	CYC	CAD-CBD-CGD-O1D
13	AA	303	CYC	CAD-CBD-CGD-O1D
13	AA	304	CYC	CAD-CBD-CGD-O1D
13	IA	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
13	NA	301	CYC	CAD-CBD-CGD-O1D
13	TA	201	CYC	CAD-CBD-CGD-O1D
13	I2	201	CYC	CAD-CBD-CGD-O1D
13	V5	201	CYC	CAD-CBD-CGD-O1D
13	I6	201	CYC	CAD-CBD-CGD-O1D
13	VA	201	CYC	CAD-CBD-CGD-O1D
13	P1	201	CYC	CAD-CBD-CGD-O1D
13	X1	201	CYC	CAD-CBD-CGD-O1D
13	P2	201	CYC	CAD-CBD-CGD-O1D
13	I3	201	CYC	CAD-CBD-CGD-O1D
13	P4	201	CYC	CAD-CBD-CGD-O1D
13	I5	201	CYC	CAD-CBD-CGD-O1D
13	P5	201	CYC	CAD-CBD-CGD-O1D
13	X5	201	CYC	CAD-CBD-CGD-O1D
13	P6	201	CYC	CAD-CBD-CGD-O1D
13	I7	201	CYC	CAD-CBD-CGD-O1D
13	PA	201	CYC	CAD-CBD-CGD-O1D
13	XA	201	CYC	CAD-CBD-CGD-O1D
13	I1	201	CYC	CAD-CBD-CGD-O1D
13	X2	201	CYC	CAD-CBD-CGD-O1D
13	I4	201	CYC	CAD-CBD-CGD-O1D
13	X4	201	CYC	CAD-CBD-CGD-O1D
13	T5	201	CYC	CAD-CBD-CGD-O1D
13	X6	201	CYC	CAD-CBD-CGD-O1D
13	B8	1001	CYC	C2A-CAA-CBA-CGA
13	D8	1001	CYC	C2A-CAA-CBA-CGA
13	F8	1001	CYC	C2A-CAA-CBA-CGA
13	I8	1001	CYC	C2A-CAA-CBA-CGA
13	K8	1001	CYC	C2A-CAA-CBA-CGA
13	M8	1001	CYC	C2A-CAA-CBA-CGA
13	P8	1001	CYC	C2A-CAA-CBA-CGA
13	R8	1001	CYC	C2A-CAA-CBA-CGA
13	T8	1001	CYC	C2A-CAA-CBA-CGA
13	W8	1001	CYC	C2A-CAA-CBA-CGA
13	Y8	1001	CYC	C2A-CAA-CBA-CGA
13	b8	1001	CYC	C2A-CAA-CBA-CGA
13	d8	1001	CYC	C2A-CAA-CBA-CGA
13	f8	1001	CYC	C2A-CAA-CBA-CGA
13	h8	1001	CYC	C2A-CAA-CBA-CGA
13	k8	1001	CYC	C2A-CAA-CBA-CGA
13	o8	1001	CYC	C2A-CAA-CBA-CGA
13	q8	1001	CYC	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
13	s8	1001	CYC	C2A-CAA-CBA-CGA
13	09	1201	CYC	C2A-CAA-CBA-CGA
13	19	1201	CYC	C2A-CAA-CBA-CGA

There are no ring outliers.

346 monomers are involved in 8394 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	X9	1001	CYC	19	0
13	i9	1001	CYC	15	0
13	VA	202	CYC	30	0
13	Z6	201	CYC	44	0
13	M5	1001	CYC	1	0
13	F6	1001	CYC	17	0
13	P6	201	CYC	22	0
13	R2	1001	CYC	23	0
13	q9	1001	CYC	19	0
13	J8	1001	CYC	16	0
13	t8	1001	CYC	16	0
13	V1	201	CYC	43	0
13	t9	1001	CYC	10	0
13	C4	301	CYC	16	0
13	I2	202	CYC	37	0
13	O5	1001	CYC	1	0
13	X6	202	CYC	49	0
13	O4	1001	CYC	26	0
13	L3	201	CYC	17	0
13	G5	201	CYC	41	0
13	K3	201	CYC	51	0
13	Z9	1001	CYC	15	0
13	V6	201	CYC	44	0
13	VA	201	CYC	40	0
13	J4	1001	CYC	26	0
13	K2	202	CYC	29	0
13	g8	1001	CYC	16	0
13	I3	201	CYC	22	0
13	RA	201	CYC	56	0
13	G6	202	CYC	20	0
13	Y1	201	CYC	4	0
13	R9	1001	CYC	19	0
13	A3	301	CYC	24	0
13	Q6	201	CYC	40	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	M8	1001	CYC	28	0
13	D6	1001	CYC	17	0
13	S5	1001	CYC	11	0
13	B1	1001	CYC	18	0
13	Z5	202	CYC	36	0
13	M2	201	CYC	28	0
13	N9	1001	CYC	19	0
13	JA	1001	CYC	2	0
13	SA	1001	CYC	11	0
13	L1	201	CYC	13	0
13	V2	202	CYC	23	0
13	O8	1001	CYC	16	0
13	F7	1001	CYC	18	0
13	R5	201	CYC	58	0
13	TA	201	CYC	41	0
13	E4	201	CYC	9	0
13	E1	201	CYC	8	0
13	s9	1001	CYC	19	0
13	KA	201	CYC	27	0
13	V9	201	CYC	2	0
13	P5	203	CYC	9	0
13	B7	1001	CYC	27	0
13	K3	202	CYC	29	0
13	l8	1001	CYC	16	0
13	Z4	202	CYC	14	0
13	WA	1001	CYC	8	0
13	XA	201	CYC	16	0
13	N3	301	CYC	30	0
13	S9	1001	CYC	10	0
13	Z6	202	CYC	22	0
13	G2	201	CYC	54	0
13	D1	1001	CYC	30	0
13	Q2	201	CYC	39	0
13	E5	201	CYC	52	0
13	A5	303	CYC	42	0
13	E6	202	CYC	28	0
13	J2	1001	CYC	25	0
13	q8	1001	CYC	35	0
13	E2	202	CYC	30	0
13	c9	1001	CYC	10	0
13	S4	1001	CYC	21	0
13	z9	1001	CYC	10	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	K5	201	CYC	27	0
13	f9	1001	CYC	20	0
13	YA	201	CYC	8	0
13	AA	302	CYC	29	0
13	A5	301	CYC	18	0
13	K7	202	CYC	29	0
13	d9	1001	CYC	15	0
13	M1	202	CYC	31	0
13	OA	1001	CYC	1	0
13	X1	202	CYC	22	0
13	NA	301	CYC	18	0
13	U2	202	CYC	24	0
13	J7	1001	CYC	24	0
13	e9	1001	CYC	10	0
13	F8	1001	CYC	28	0
13	I5	202	CYC	33	0
13	I1	201	CYC	16	0
13	PA	202	CYC	29	0
13	W4	1001	CYC	23	0
13	j9	1001	CYC	10	0
13	M7	201	CYC	27	0
13	PA	203	CYC	9	0
13	Q1	201	CYC	14	0
13	XA	202	CYC	33	0
13	o9	1001	CYC	19	0
13	B2	1001	CYC	24	0
13	L5	201	CYC	9	0
13	J6	1001	CYC	24	0
13	B5	1001	CYC	6	0
13	19	1205	CYC	12	0
13	I8	1001	CYC	26	0
13	X8	1001	CYC	16	0
13	AA	303	CYC	42	0
13	E8	1001	CYC	16	0
13	C6	202	CYC	42	0
13	19	1202	CYC	3	0
13	D4	1001	CYC	30	0
13	M4	201	CYC	21	0
13	Y6	201	CYC	30	0
13	B6	1001	CYC	27	0
13	M5	1003	CYC	40	0
13	V4	202	CYC	35	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	R4	1001	CYC	6	0
13	G6	201	CYC	55	0
13	X6	201	CYC	17	0
13	E6	201	CYC	25	0
13	Q9	201	CYC	1	0
13	I4	201	CYC	18	0
13	C7	201	CYC	42	0
13	D7	1001	CYC	17	0
13	L6	201	CYC	17	0
13	V2	201	CYC	45	0
13	Y2	201	CYC	30	0
13	E7	202	CYC	28	0
13	S2	1001	CYC	25	0
13	E7	201	CYC	33	0
13	P5	201	CYC	30	0
13	J9	1001	CYC	10	0
13	M3	201	CYC	28	0
13	T1	201	CYC	50	0
13	G1	201	CYC	39	0
13	A7	301	CYC	24	0
13	E3	202	CYC	29	0
13	R6	1001	CYC	25	0
13	X4	201	CYC	19	0
13	UA	1001	CYC	10	0
13	V5	202	CYC	30	0
13	W8	1001	CYC	26	0
13	J3	1001	CYC	24	0
13	G7	201	CYC	16	0
13	C2	202	CYC	42	0
13	d8	1001	CYC	34	0
13	P4	201	CYC	28	0
13	A8	1001	CYC	16	0
13	O2	1001	CYC	13	0
13	R8	1001	CYC	28	0
13	Z8	1001	CYC	16	0
13	M5	1002	CYC	27	0
13	E2	201	CYC	24	0
13	K4	202	CYC	33	0
13	I7	201	CYC	25	0
13	P8	1001	CYC	29	0
13	19	1204	CYC	10	0
13	E5	202	CYC	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	H2	1001	CYC	20	0
13	X1	201	CYC	30	0
13	A5	302	CYC	27	0
13	IA	202	CYC	32	0
13	D2	1001	CYC	17	0
13	e8	1001	CYC	15	0
13	U1	1001	CYC	7	0
13	K6	202	CYC	29	0
13	Q8	1001	CYC	16	0
13	Z2	201	CYC	44	0
13	I6	201	CYC	22	0
13	M4	202	CYC	29	0
13	L8	1001	CYC	16	0
13	Q4	202	CYC	33	0
13	N2	301	CYC	29	0
13	r9	1001	CYC	11	0
13	Z1	201	CYC	31	0
13	I7	202	CYC	36	0
13	N6	301	CYC	31	0
13	P2	201	CYC	22	0
13	P1	202	CYC	32	0
13	S6	1001	CYC	24	0
13	ZA	201	CYC	18	0
13	H3	1001	CYC	20	0
13	Y4	201	CYC	4	0
13	U4	1001	CYC	7	0
13	G9	1001	CYC	19	0
13	H9	1001	CYC	10	0
13	T4	201	CYC	52	0
13	s8	1001	CYC	35	0
13	G1	202	CYC	28	0
13	P4	202	CYC	32	0
13	X5	202	CYC	33	0
13	U6	201	CYC	37	0
13	p8	1001	CYC	16	0
13	V5	201	CYC	39	0
13	I1	202	CYC	37	0
13	w9	1001	CYC	19	0
13	N5	301	CYC	19	0
13	09	1201	CYC	30	0
13	X5	201	CYC	16	0
13	I9	1001	CYC	19	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	U9	1001	CYC	8	0
13	Q1	202	CYC	33	0
13	E4	202	CYC	36	0
13	T2	201	CYC	41	0
13	ZA	202	CYC	37	0
13	Z4	201	CYC	31	0
13	W5	1001	CYC	8	0
13	D5	1001	CYC	11	0
13	I6	202	CYC	37	0
13	V1	202	CYC	36	0
13	DA	1001	CYC	11	0
13	T4	202	CYC	42	0
13	Z1	202	CYC	15	0
13	K6	201	CYC	52	0
13	k9	1001	CYC	19	0
13	S8	1001	CYC	16	0
13	L9	1001	CYC	9	0
13	k8	1001	CYC	34	0
13	p9	1001	CYC	10	0
13	Z5	201	CYC	18	0
13	K8	1001	CYC	29	0
13	f8	1001	CYC	31	0
13	W6	201	CYC	39	0
13	A5	304	CYC	40	0
13	V8	1001	CYC	16	0
13	C1	302	CYC	31	0
13	W2	202	CYC	25	0
13	N6	302	CYC	16	0
13	W2	203	CYC	53	0
13	D8	1001	CYC	29	0
13	A9	1001	CYC	19	0
13	I3	202	CYC	36	0
13	H6	1001	CYC	20	0
13	L7	201	CYC	17	0
13	P9	1001	CYC	20	0
13	P1	201	CYC	29	0
13	C4	302	CYC	30	0
13	H4	1001	CYC	7	0
13	C9	1001	CYC	19	0
13	G2	202	CYC	19	0
13	n8	1001	CYC	15	0
13	G3	201	CYC	15	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	39	1001	CYC	9	0
13	H7	1001	CYC	20	0
13	O9	1001	CYC	11	0
13	X2	201	CYC	17	0
13	W6	202	CYC	24	0
13	O1	1001	CYC	27	0
13	P5	202	CYC	31	0
13	o8	1001	CYC	43	0
13	N2	302	CYC	15	0
13	l9	1001	CYC	6	0
13	B4	1001	CYC	18	0
13	K1	201	CYC	52	0
13	T8	1001	CYC	27	0
13	F4	1001	CYC	19	0
13	F1	1001	CYC	18	0
13	N7	301	CYC	29	0
13	I4	202	CYC	39	0
13	MA	1003	CYC	42	0
13	I2	201	CYC	23	0
13	b8	1001	CYC	32	0
13	G7	202	CYC	53	0
13	I5	201	CYC	16	0
13	D9	1001	CYC	22	0
13	j8	1001	CYC	16	0
13	G3	202	CYC	52	0
13	CA	201	CYC	29	0
13	T5	201	CYC	40	0
13	F2	1001	CYC	16	0
13	GA	1001	CYC	5	0
13	M6	201	CYC	29	0
13	R1	1001	CYC	6	0
13	K7	201	CYC	53	0
13	L2	201	CYC	17	0
13	D3	1001	CYC	17	0
13	K2	201	CYC	53	0
13	K9	1001	CYC	19	0
13	T1	202	CYC	42	0
13	W1	1001	CYC	21	0
13	Y8	1001	CYC	30	0
13	GA	1002	CYC	41	0
13	B8	1001	CYC	35	0
13	J1	1001	CYC	27	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	AA	304	CYC	34	0
13	TA	202	CYC	42	0
13	K1	202	CYC	33	0
13	y9	1001	CYC	19	0
13	EA	202	CYC	1	0
13	m9	201	CYC	2	0
13	E9	1001	CYC	19	0
13	U5	1001	CYC	10	0
13	W2	201	CYC	39	0
13	F9	1001	CYC	16	0
13	c8	1001	CYC	16	0
13	X4	202	CYC	22	0
13	U2	201	CYC	37	0
13	C5	201	CYC	30	0
13	LA	201	CYC	9	0
13	v9	1001	CYC	10	0
13	PA	201	CYC	32	0
13	29	1001	CYC	14	0
13	AA	301	CYC	18	0
13	V4	201	CYC	45	0
13	MA	1002	CYC	27	0
13	H8	1001	CYC	18	0
13	C2	201	CYC	29	0
13	E3	201	CYC	32	0
13	C3	201	CYC	42	0
13	C1	301	CYC	15	0
13	r8	1001	CYC	16	0
13	M1	201	CYC	21	0
13	L4	201	CYC	13	0
13	O6	1001	CYC	14	0
13	x9	1001	CYC	10	0
13	C6	201	CYC	29	0
13	G4	202	CYC	29	0
13	Z2	202	CYC	22	0
13	C8	1001	CYC	16	0
13	G4	201	CYC	39	0
13	B9	1001	CYC	11	0
13	H1	1001	CYC	7	0
13	V6	202	CYC	24	0
13	09	1203	CYC	12	0
13	MA	1001	CYC	1	0
13	T5	202	CYC	41	0

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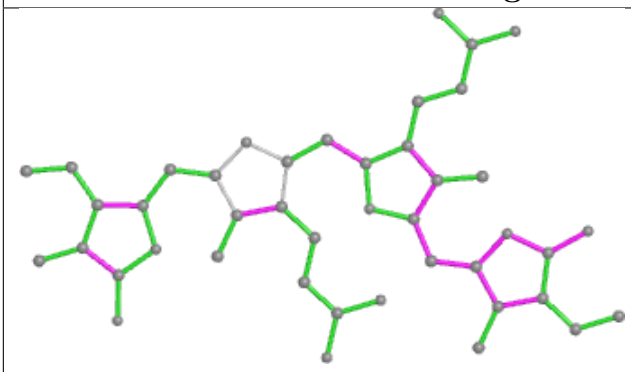
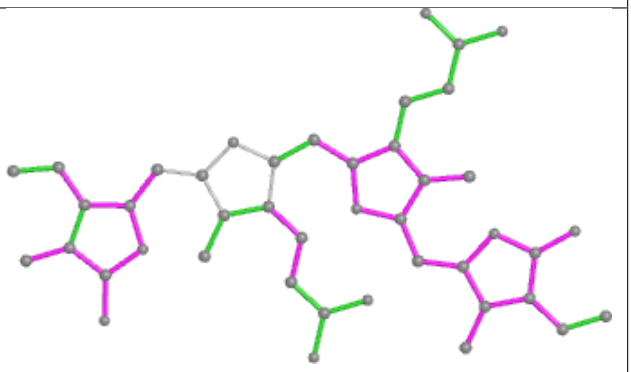
Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	u9	1001	CYC	19	0
13	T6	201	CYC	39	0
13	B3	1001	CYC	26	0
13	T9	1001	CYC	19	0
13	K4	201	CYC	54	0
13	F3	1001	CYC	16	0
13	b9	1001	CYC	19	0
13	IA	201	CYC	16	0
13	19	1201	CYC	40	0
13	EA	201	CYC	52	0
13	J5	1001	CYC	2	0
13	h8	1001	CYC	25	0
13	U6	202	CYC	24	0
13	19	1203	CYC	10	0
13	Y5	201	CYC	8	0
13	S1	1001	CYC	20	0
13	E1	202	CYC	38	0
13	Q4	201	CYC	14	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

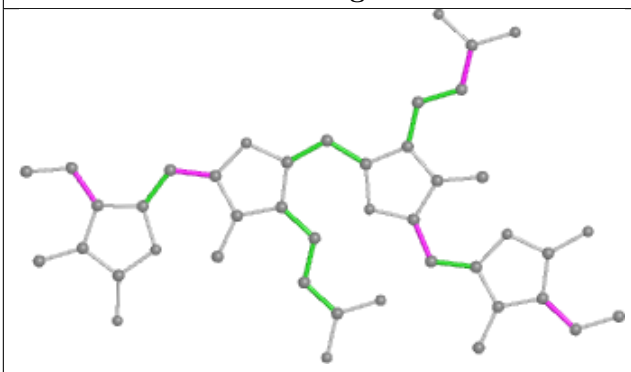
Ligand CYC X9 1001



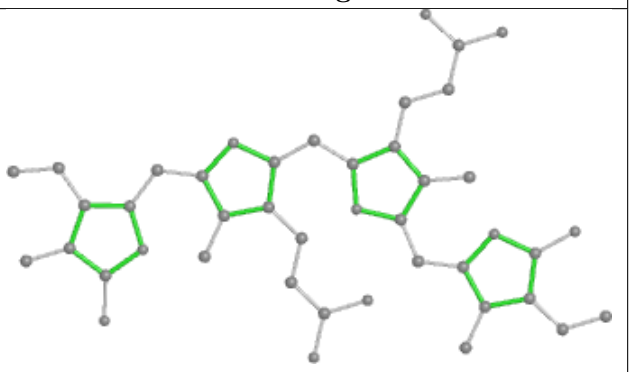
Bond lengths



Bond angles

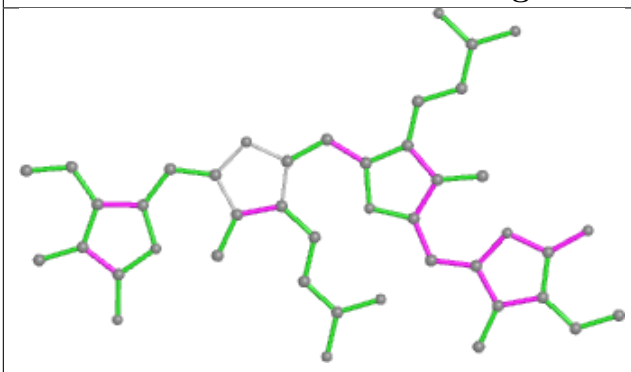


Torsions

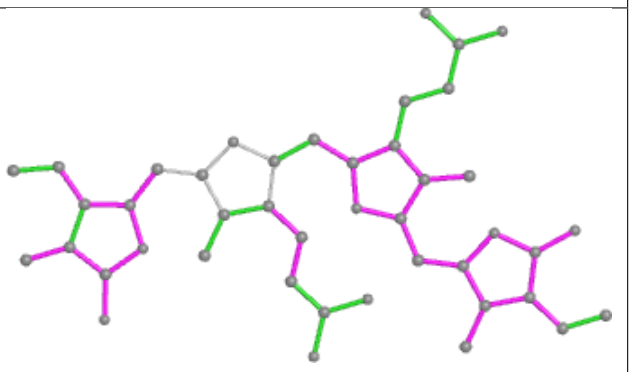


Rings

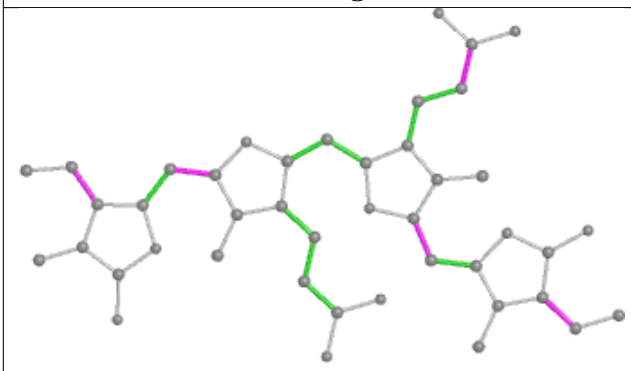
Ligand CYC i9 1001



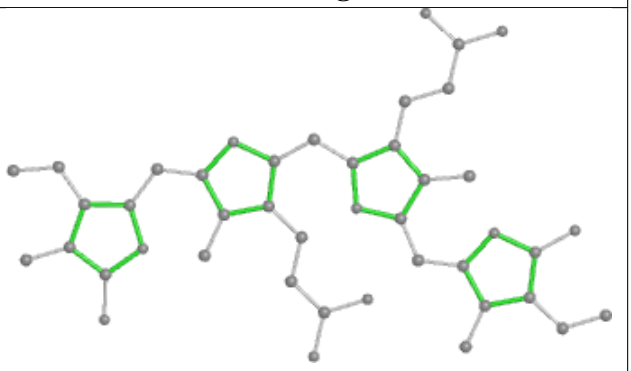
Bond lengths



Bond angles

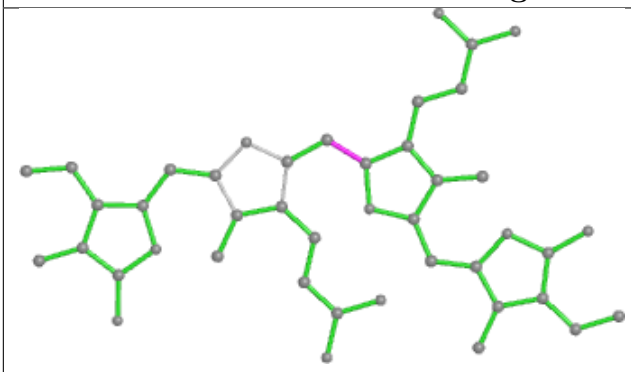


Torsions

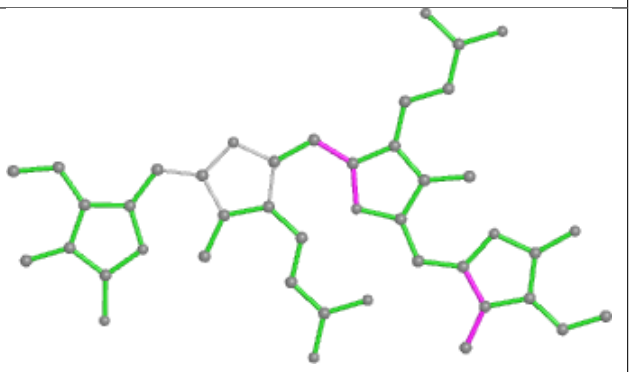


Rings

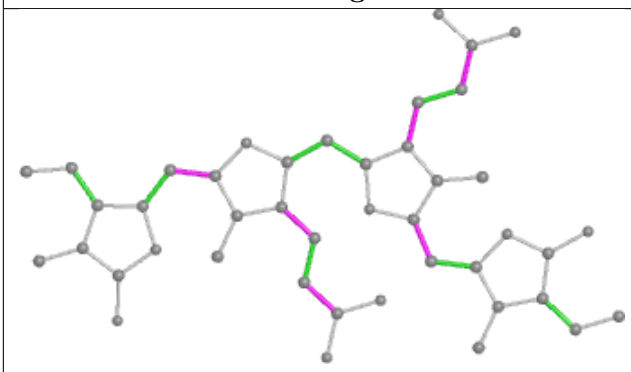
Ligand CYC VA 202



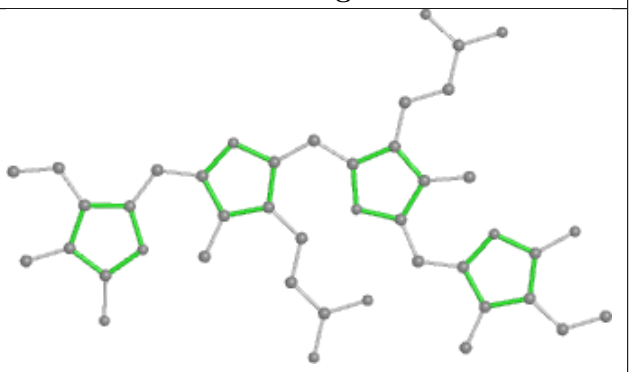
Bond lengths



Bond angles

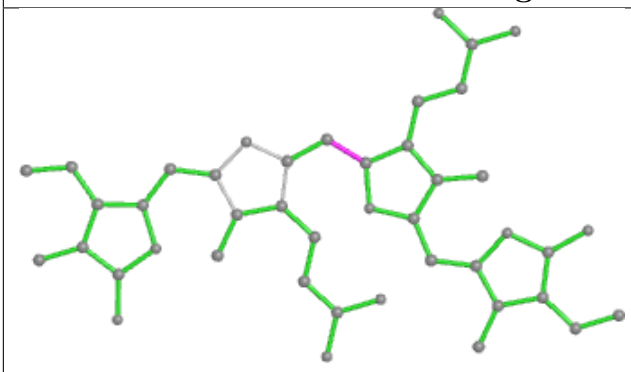


Torsions

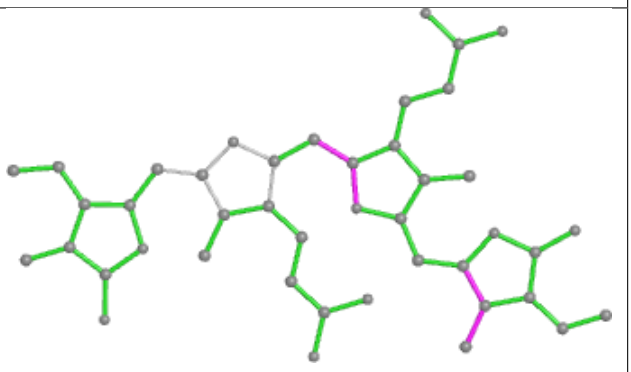


Rings

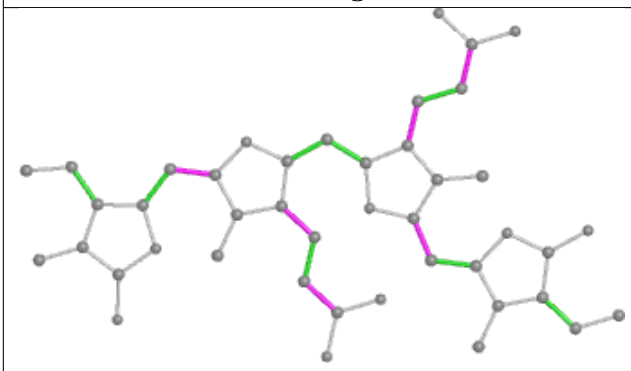
Ligand CYC Z6 201



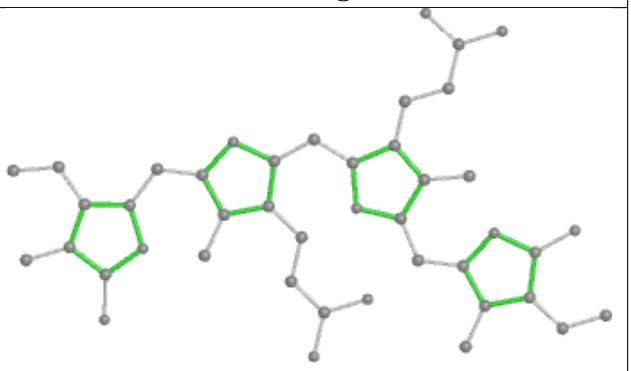
Bond lengths



Bond angles

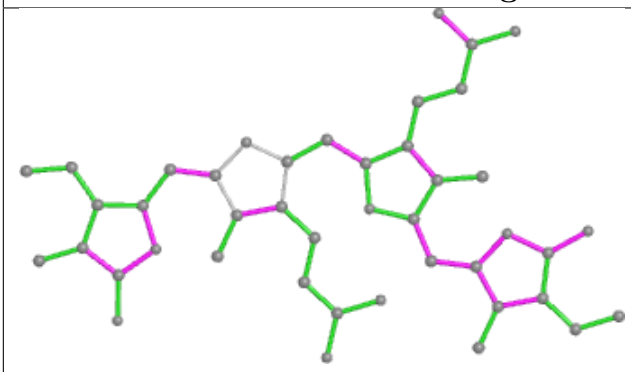


Torsions

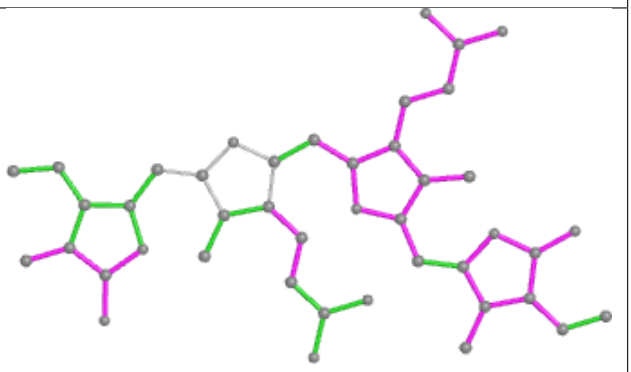


Rings

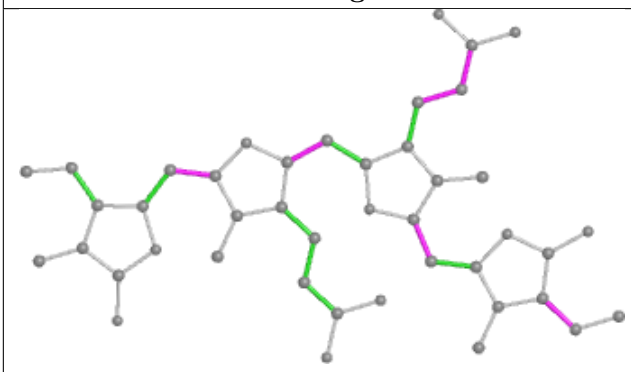
Ligand CYC M5 1001



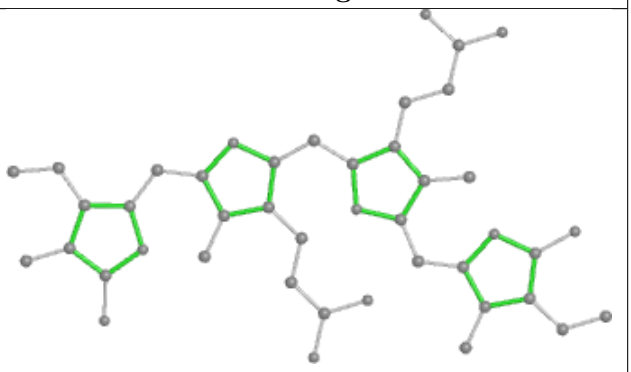
Bond lengths



Bond angles

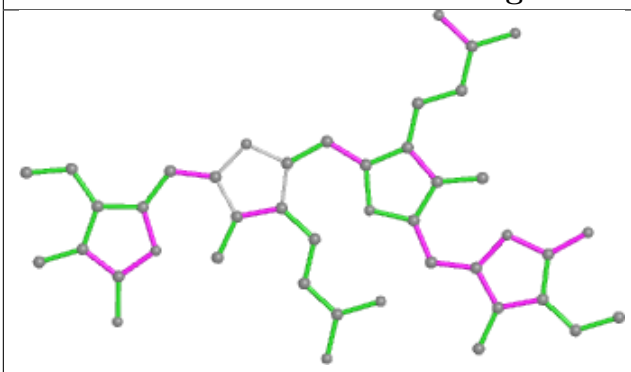


Torsions



Rings

Ligand CYC F6 1001



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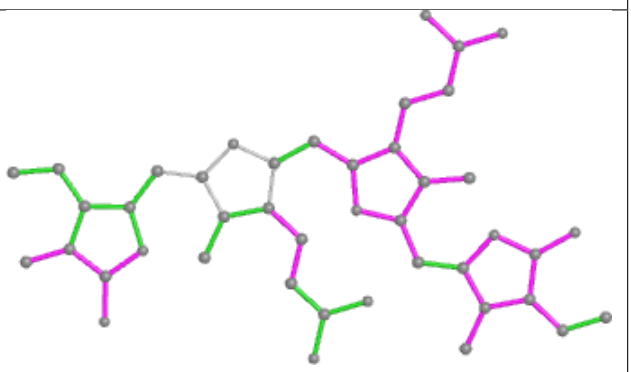
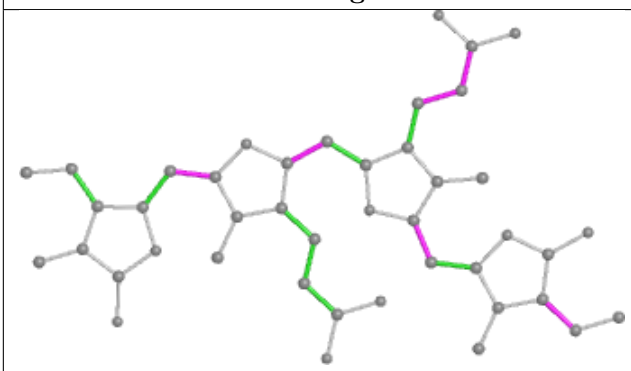


Bond angles



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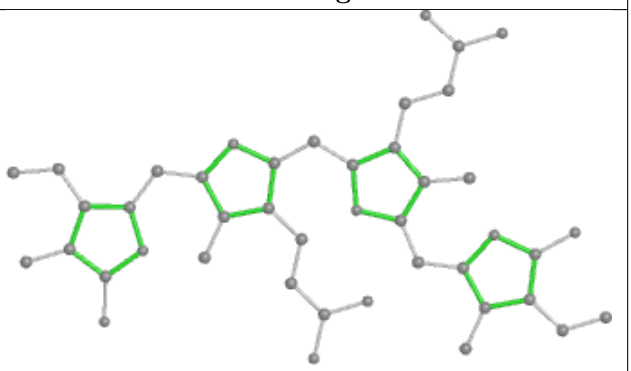
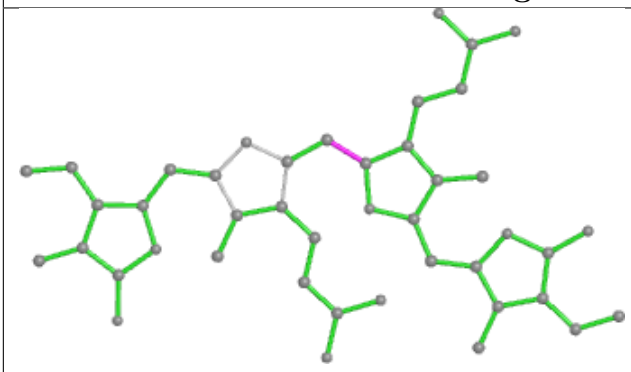


Rings

Ligand CYC P6 201



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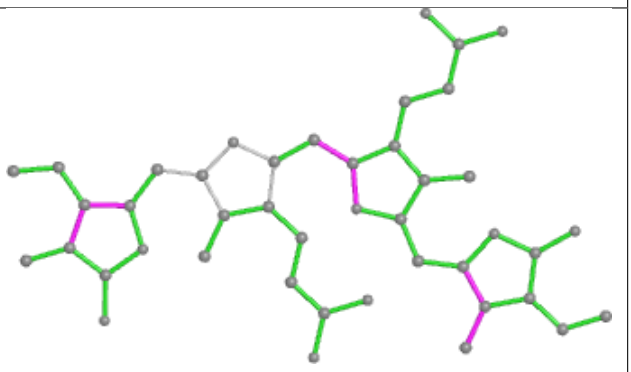
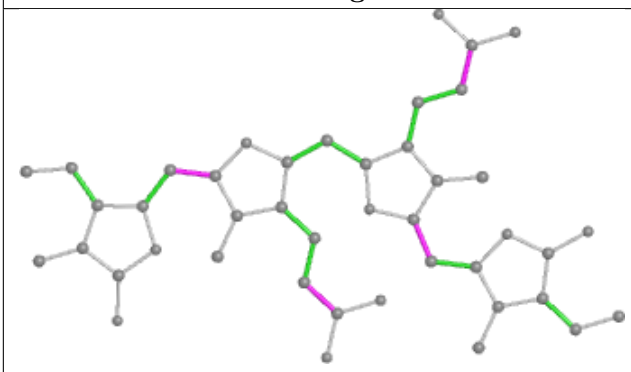


Bond angles



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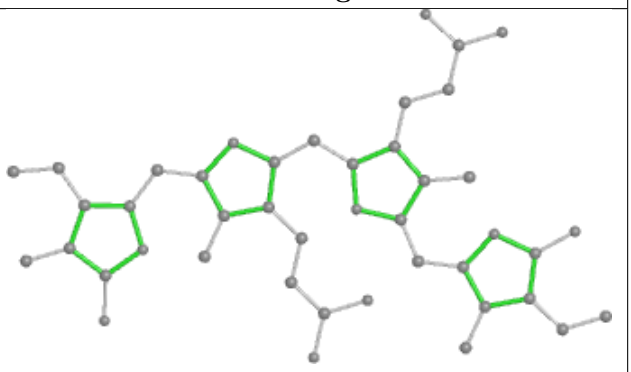
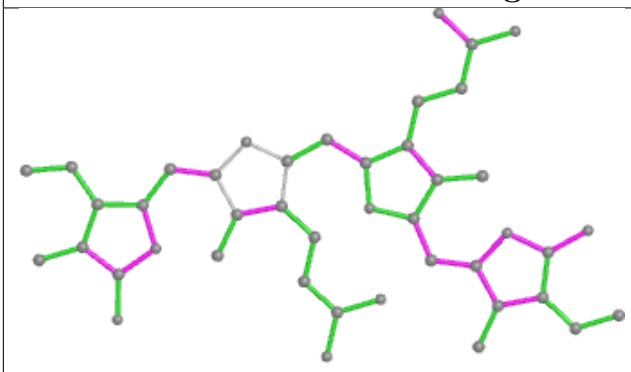


Rings

Ligand CYC R2 1001



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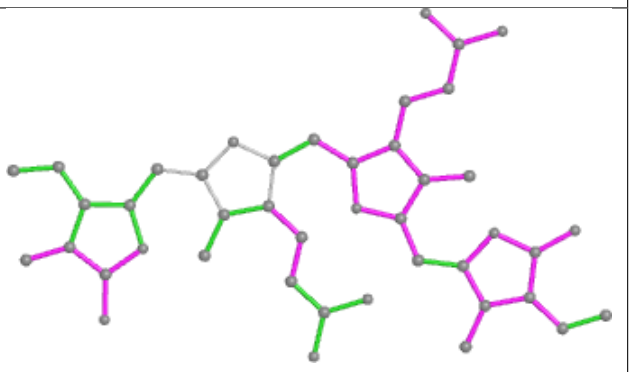
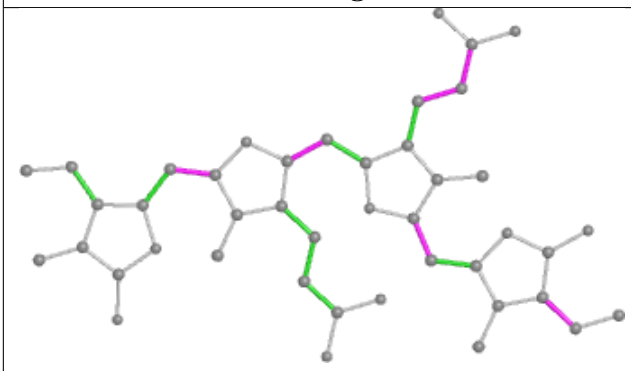


Bond angles



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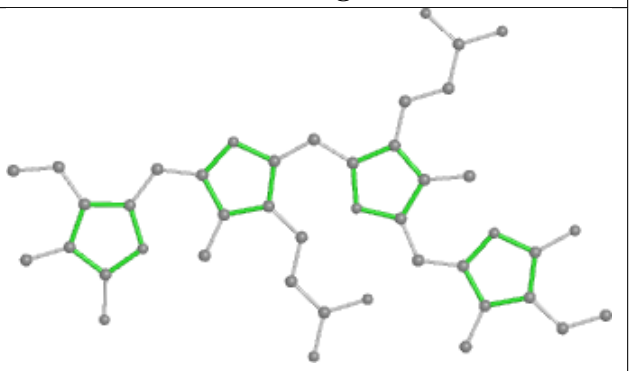
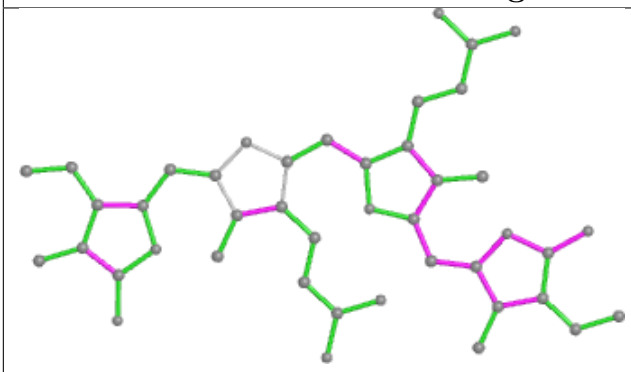


Rings

Ligand CYC q9 1001



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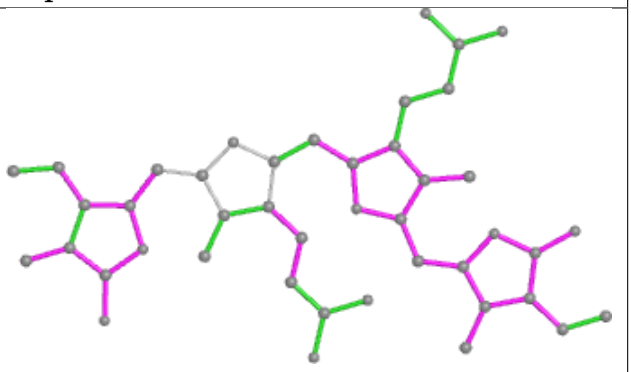
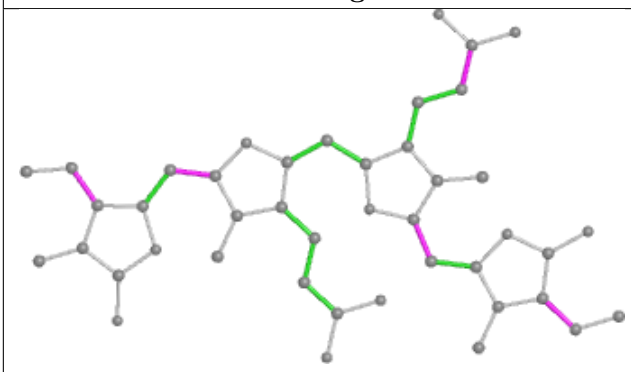


Bond angles



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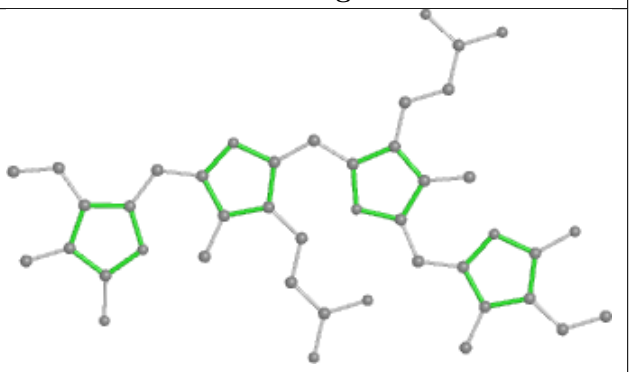
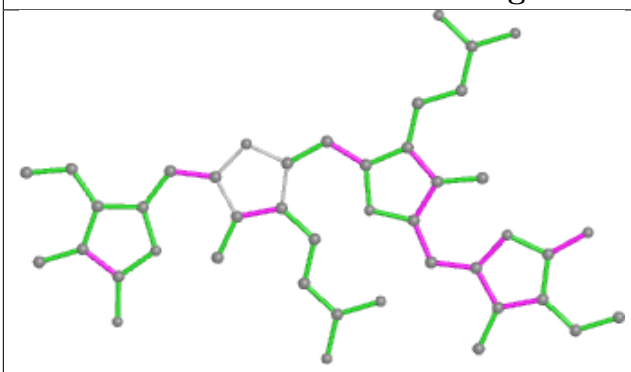


Rings

Ligand CYC J8 1001



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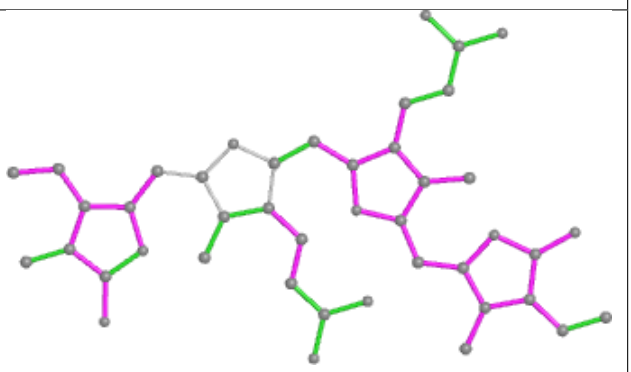
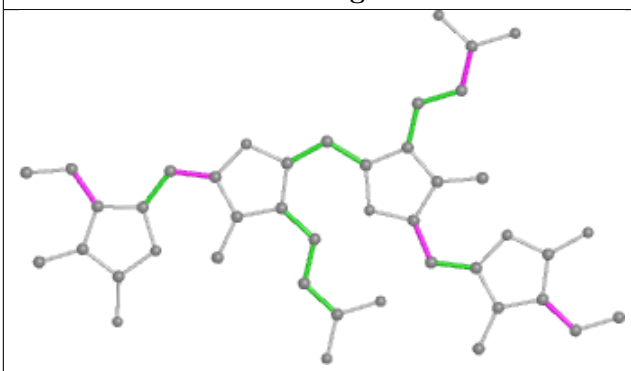


Bond angles



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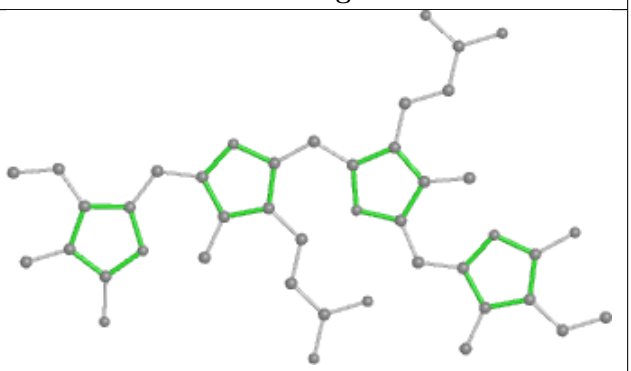
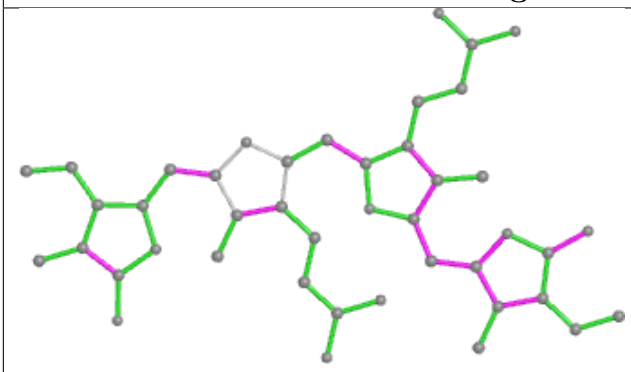


Rings

Ligand CYC t8 1001



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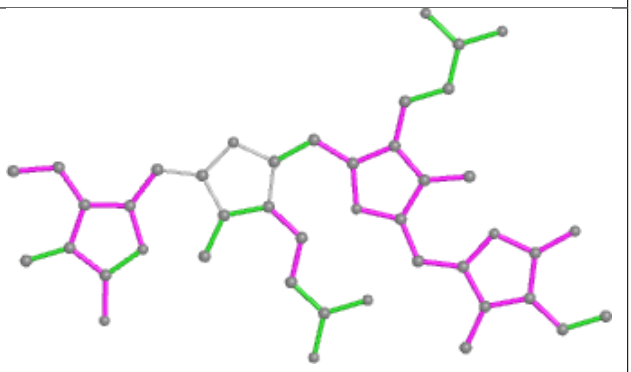
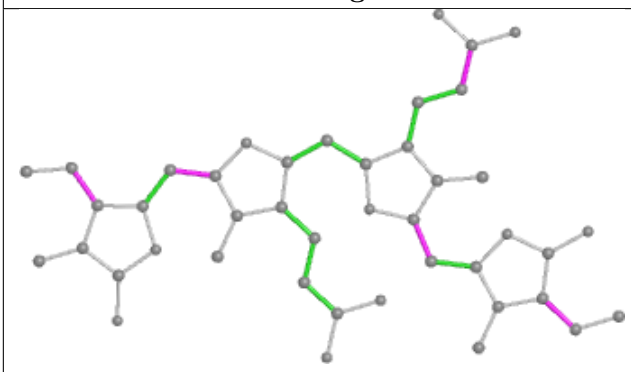


Bond angles



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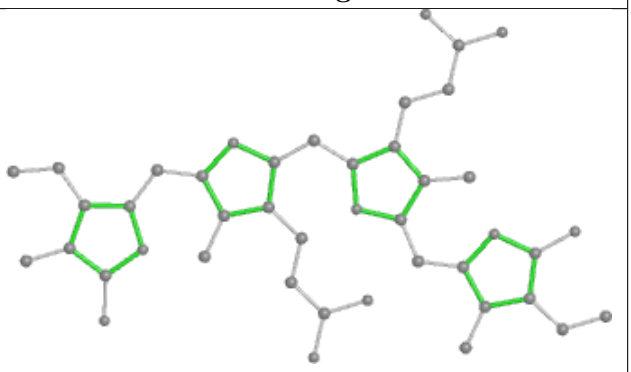
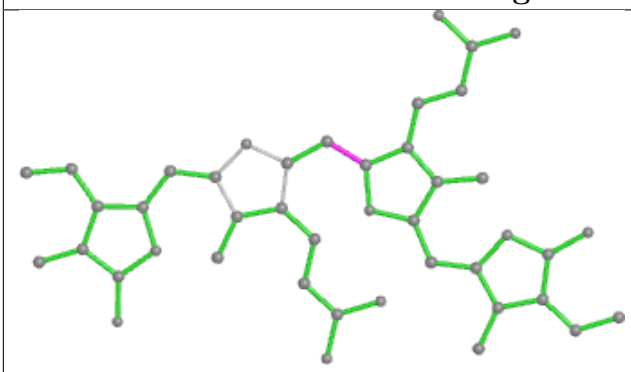


Rings

Ligand CYC V1 201



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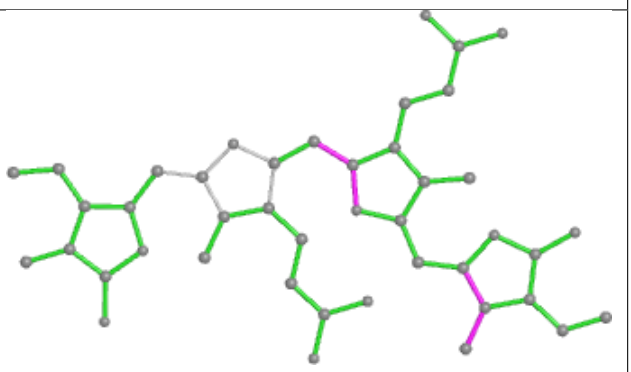

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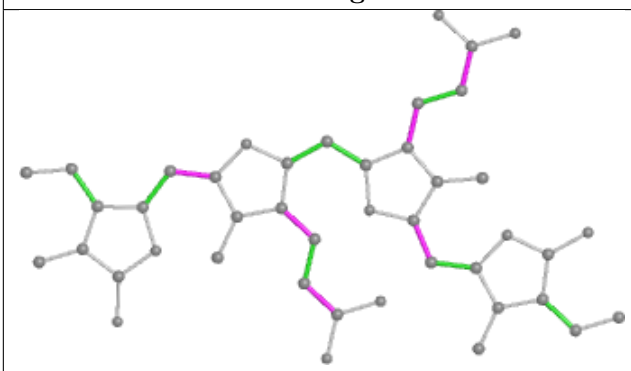

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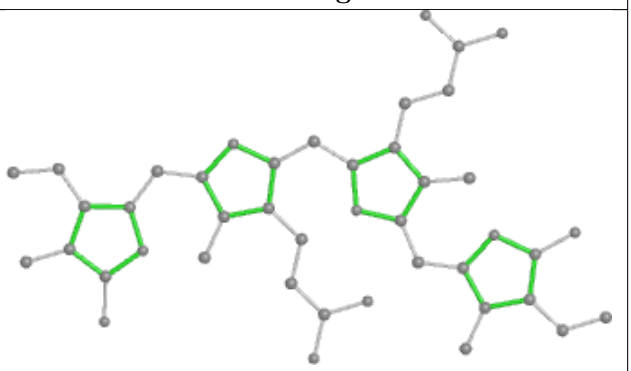
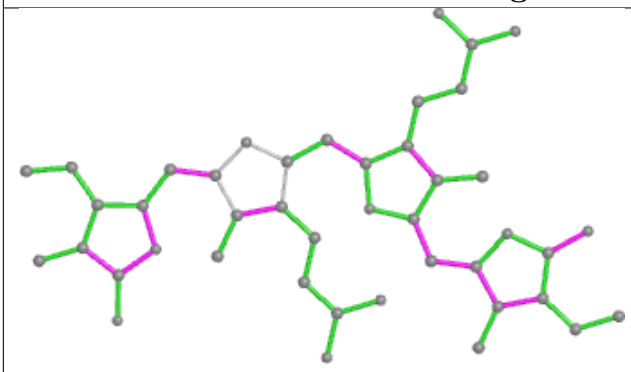


Rings

Ligand CYC t9 1001



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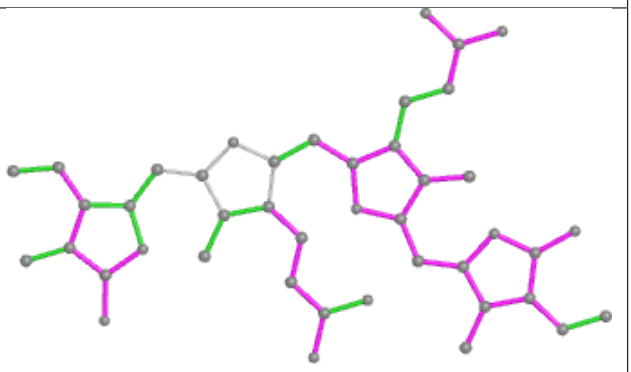
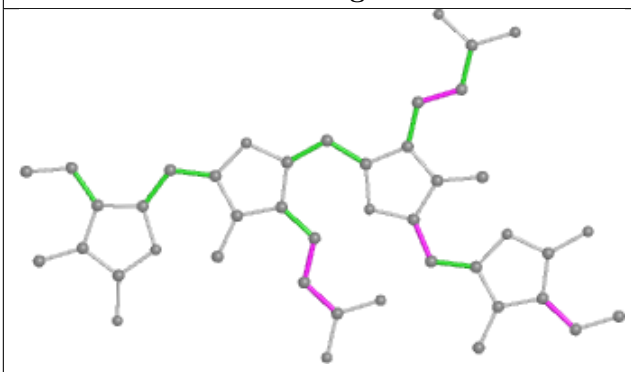
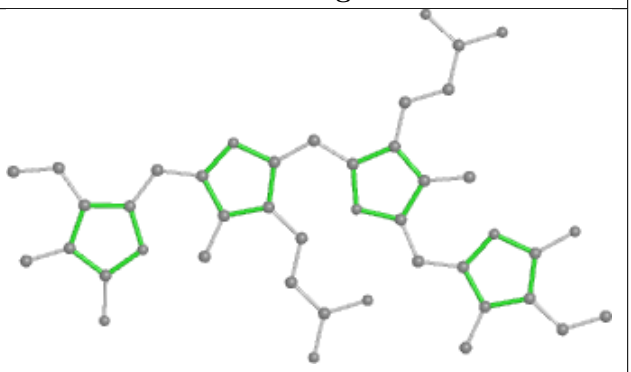


Bond angles

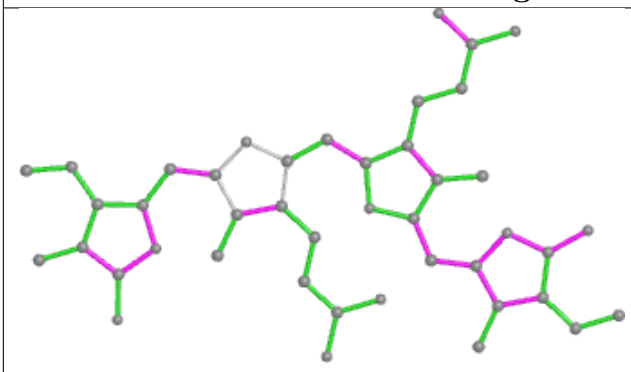


Torsions



Rings

Ligand CYC C4 301



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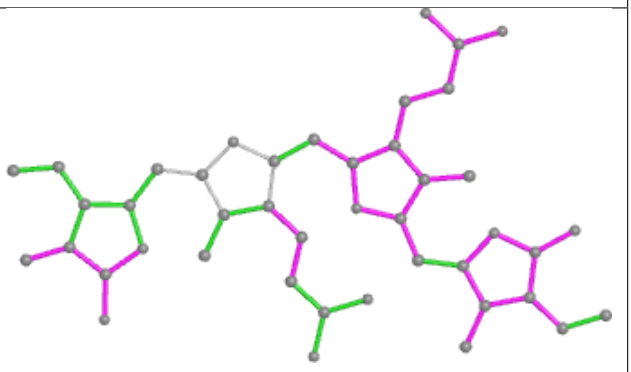
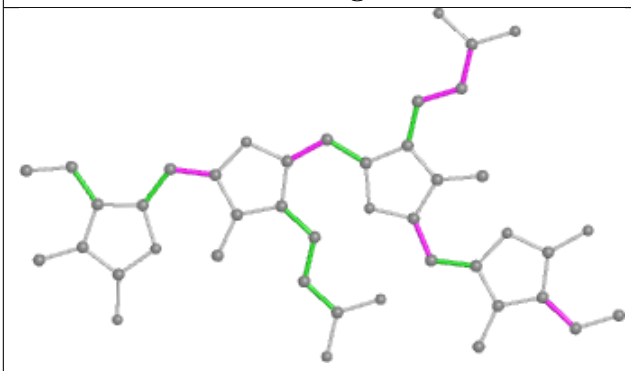


Bond angles



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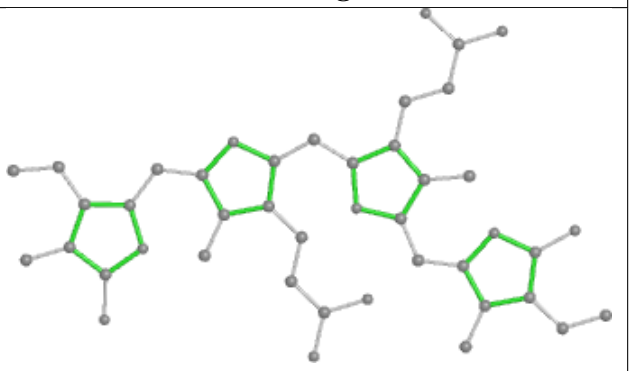
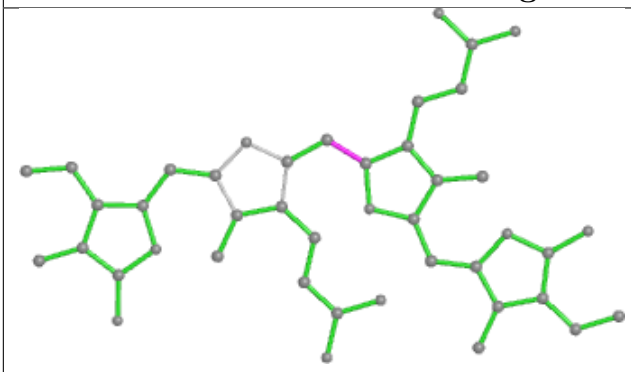


Rings

Ligand CYC I2 202



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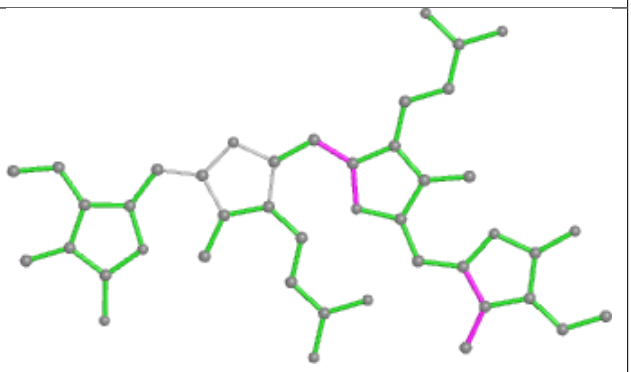

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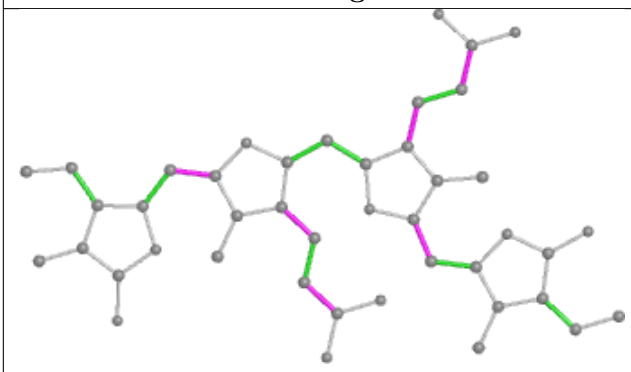

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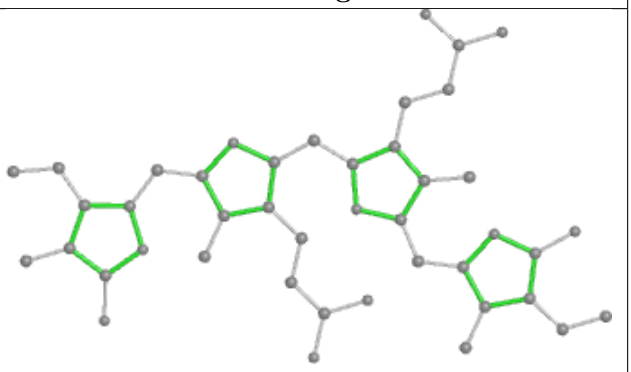
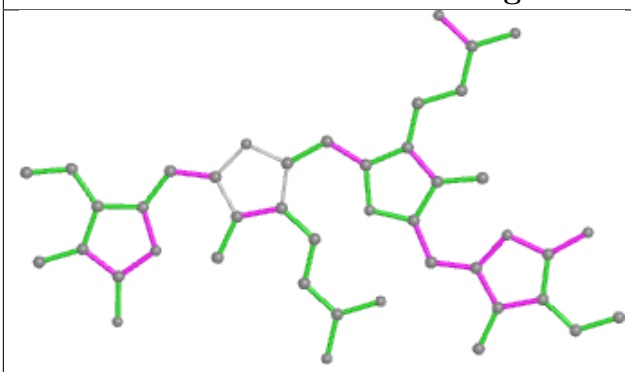


Rings

Ligand CYC O5 1001



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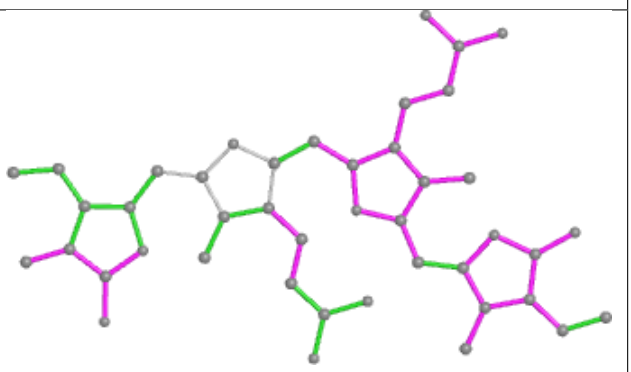
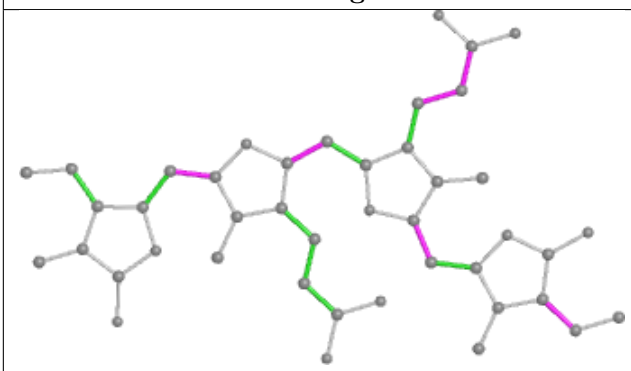


Bond angles



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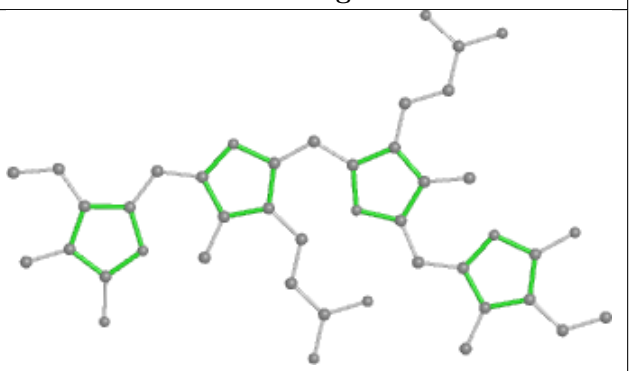
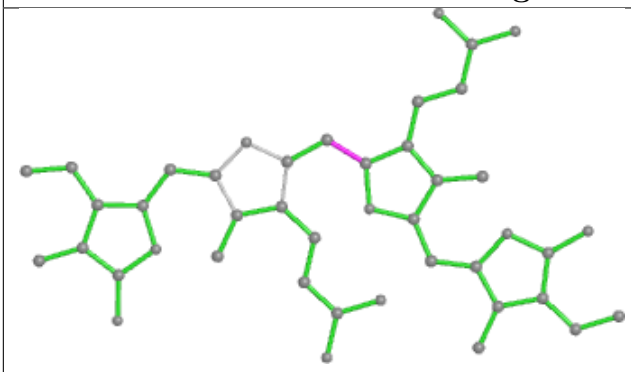


Rings

Ligand CYC X6 202



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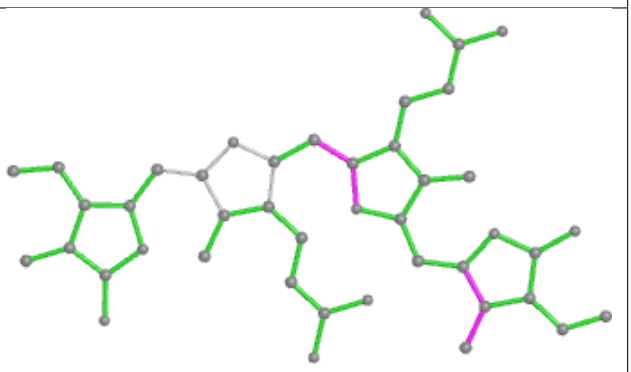
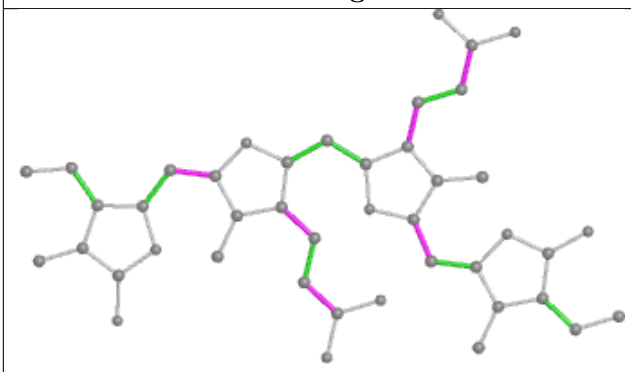
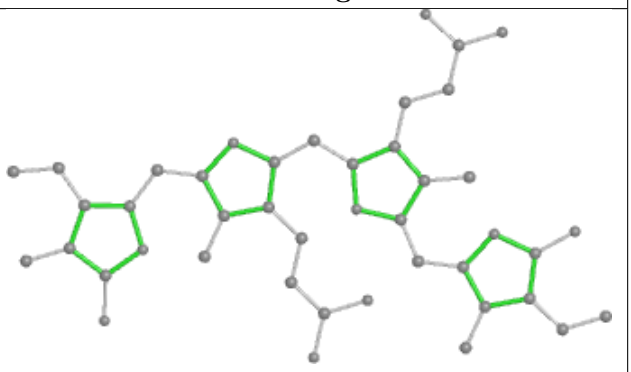


Bond angles

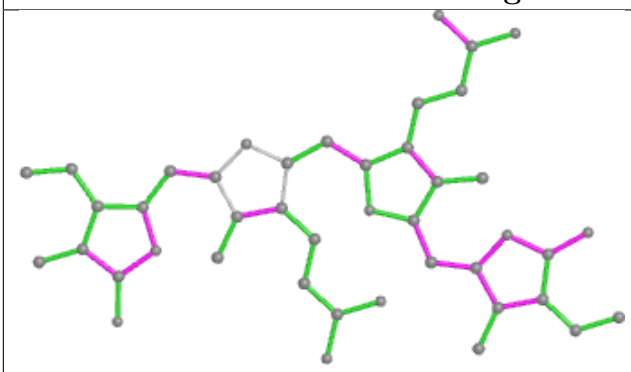


Torsions



Rings

Ligand CYC O4 1001



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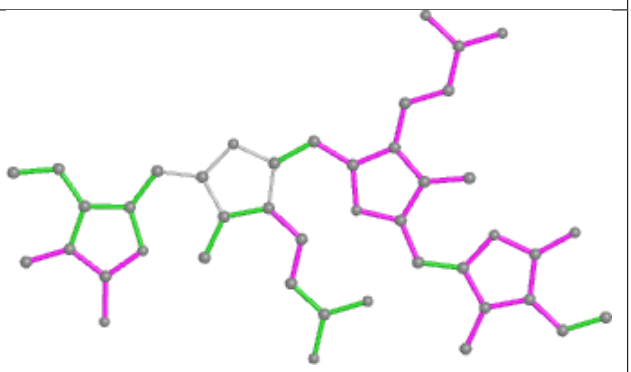
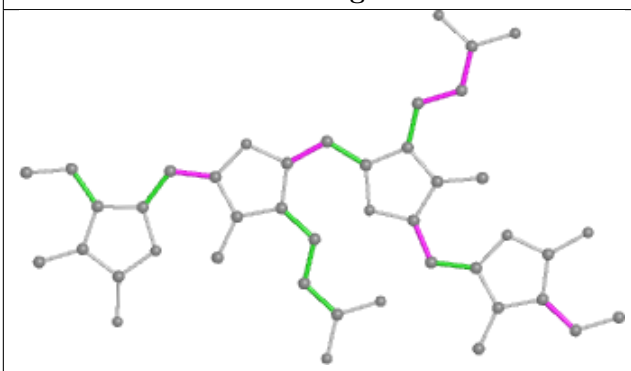


Bond angles



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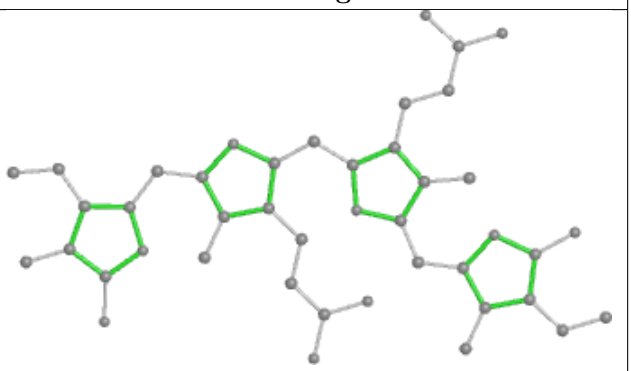
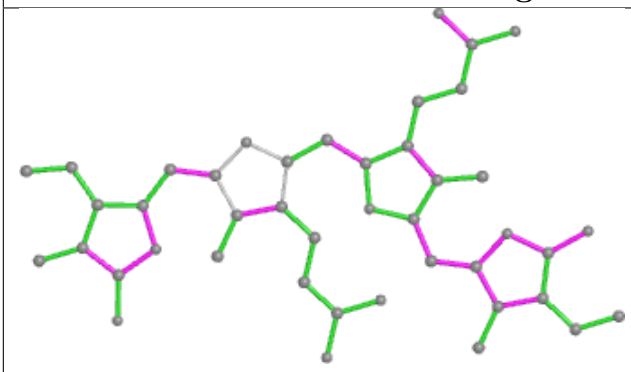
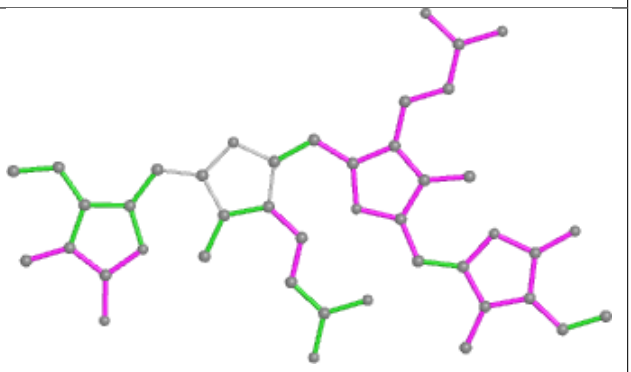


Rings

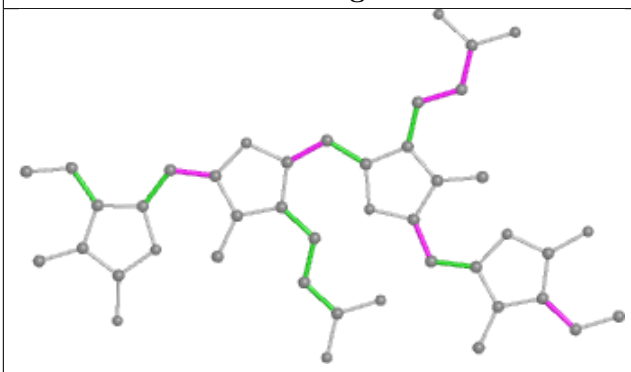
Ligand CYC L3 201



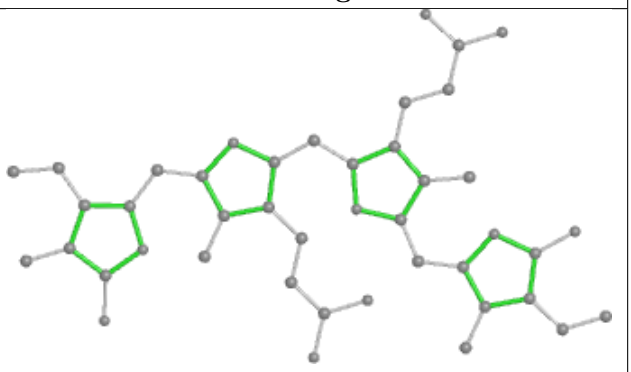
Bond lengths



Bond angles

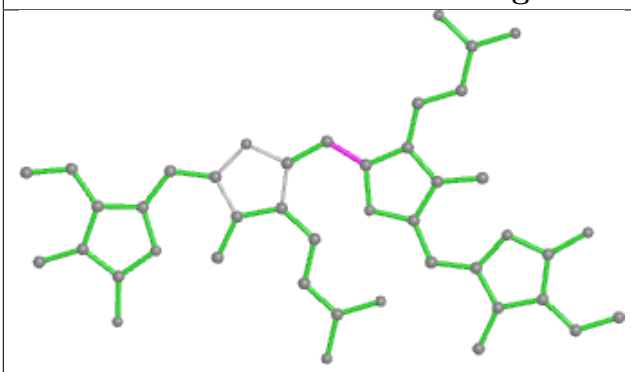


Torsions



Rings

Ligand CYC G5 201



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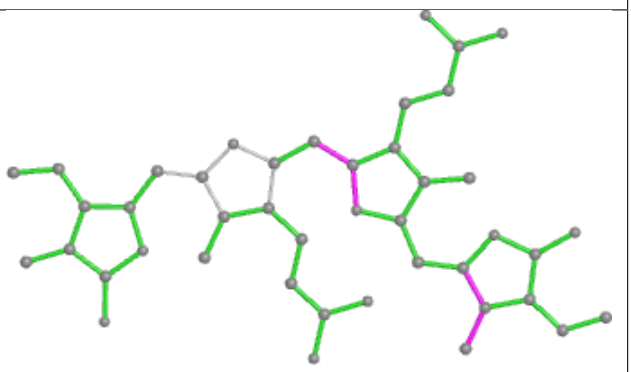

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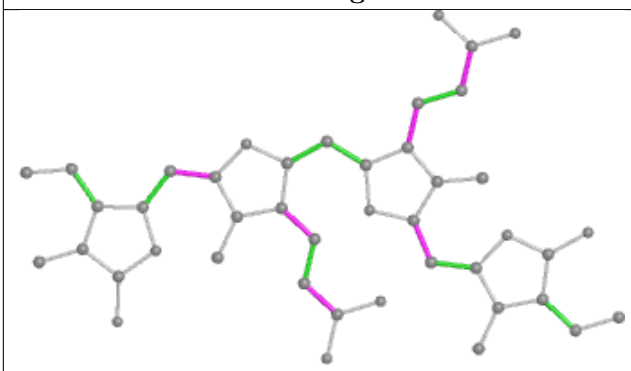

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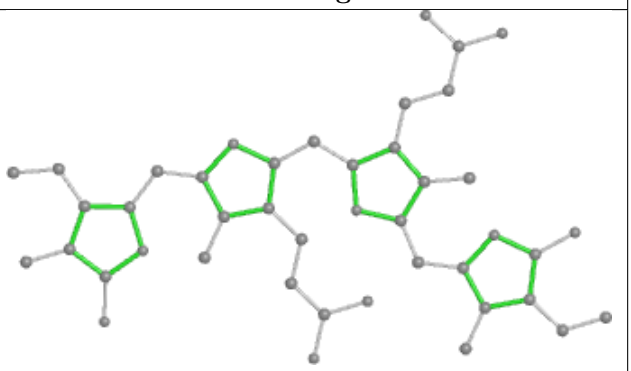
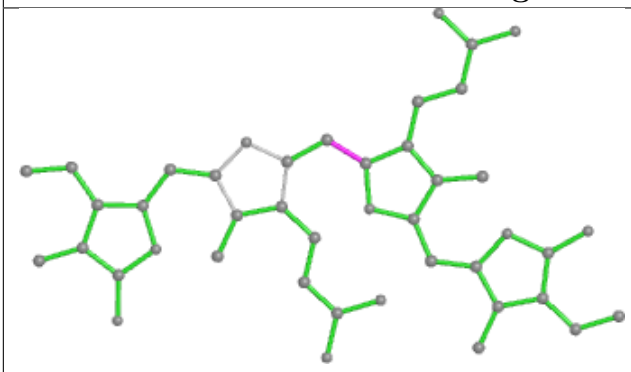


Rings

Ligand CYC K3 201



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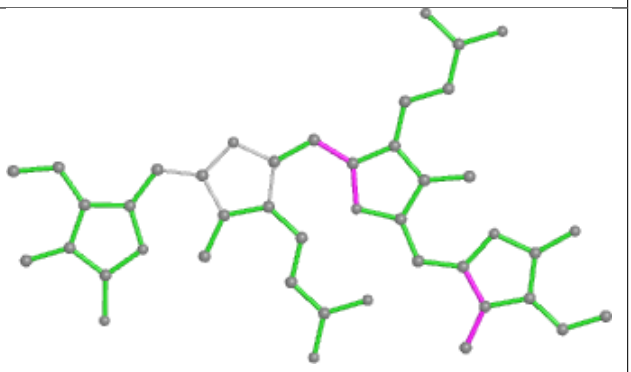

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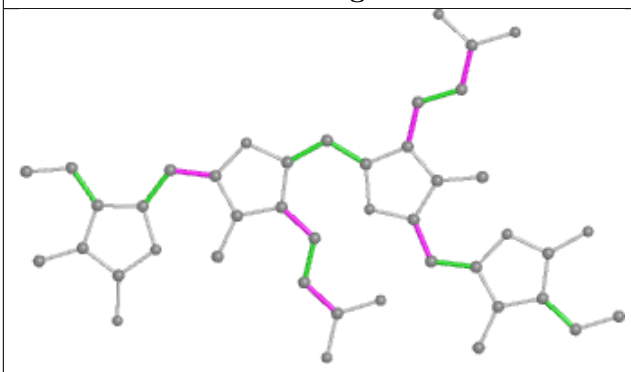

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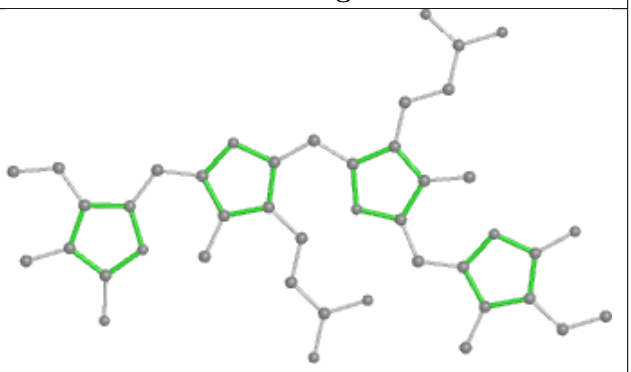
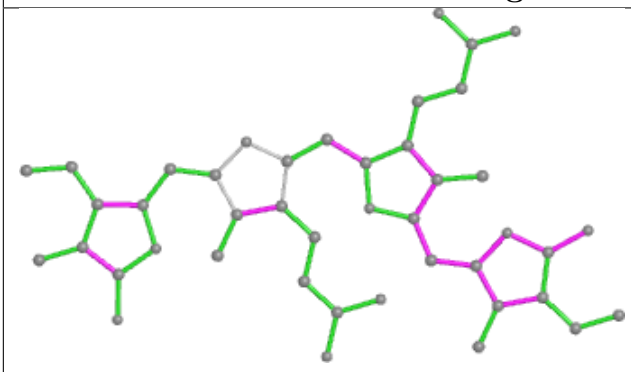


Rings

Ligand CYC Z9 1001



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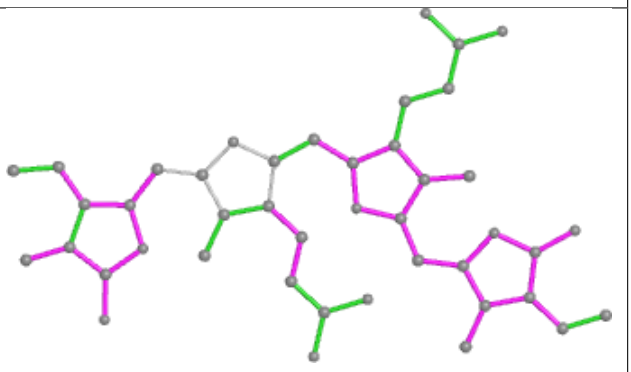

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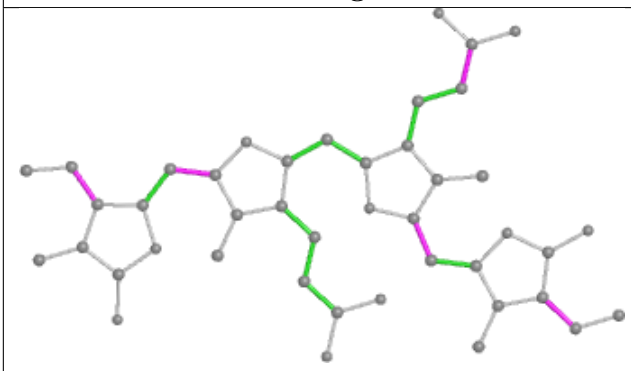

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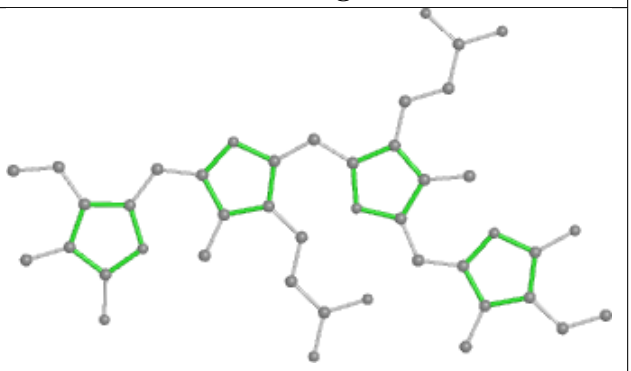
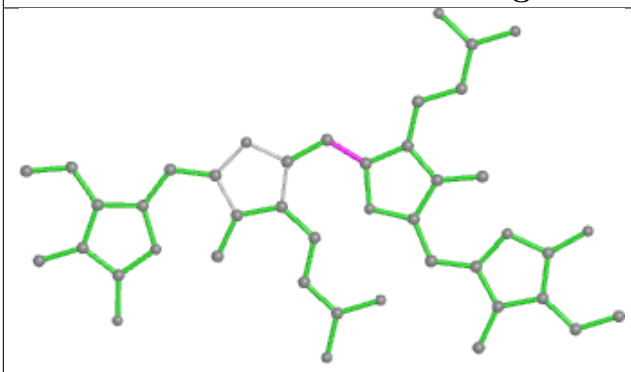


Rings

Ligand CYC V6 201



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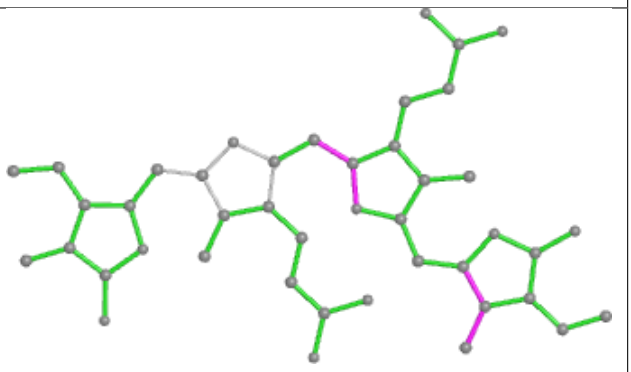

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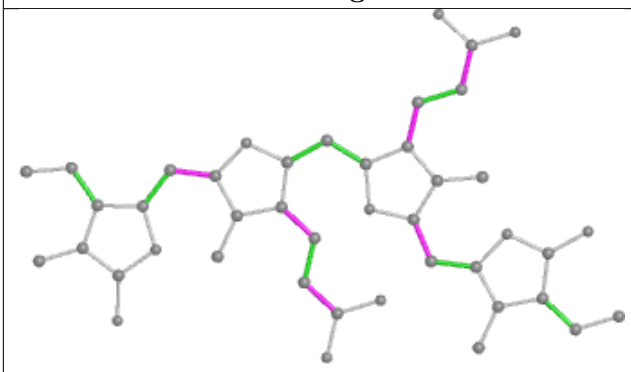

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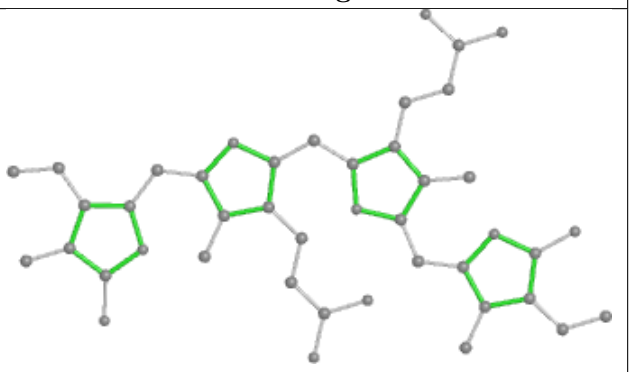

Rings

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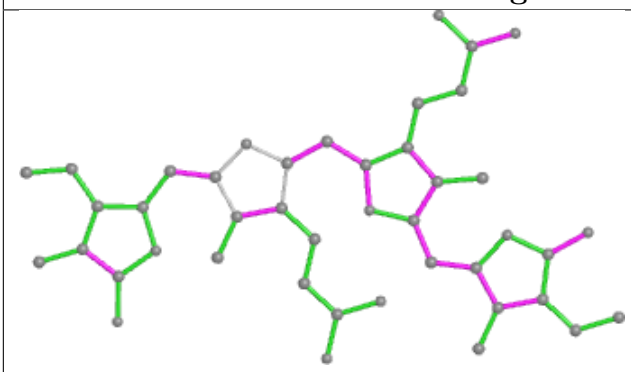

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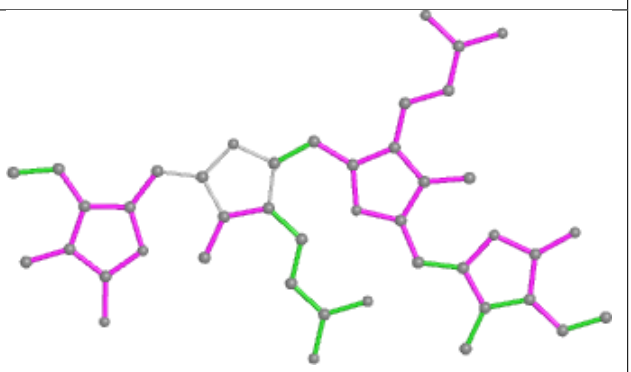

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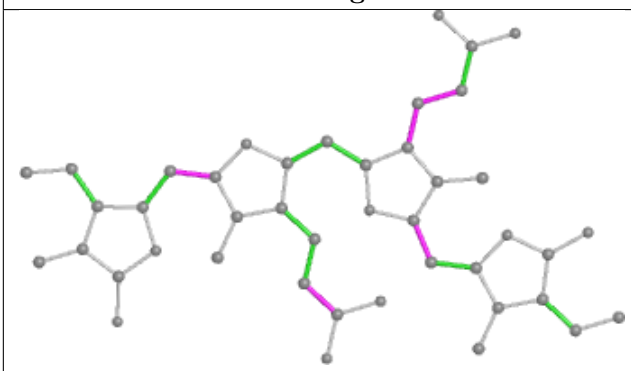

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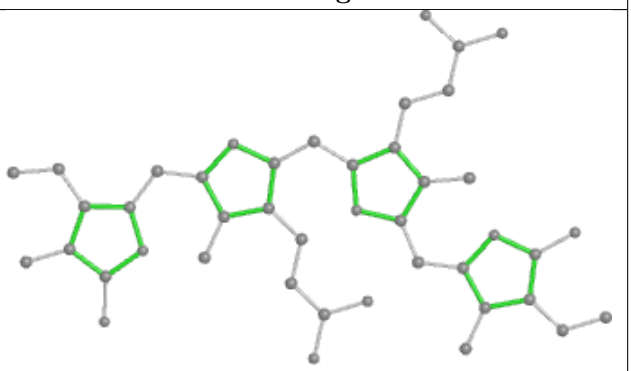
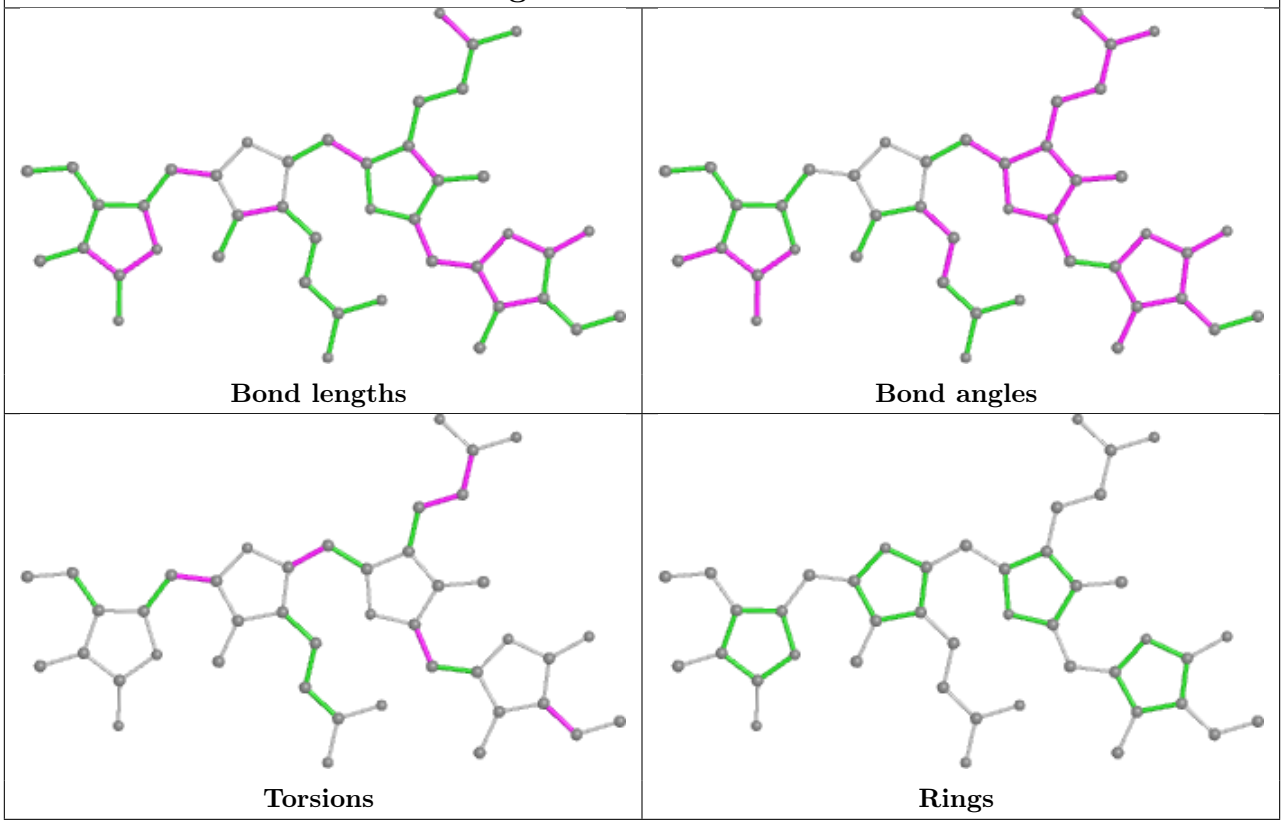
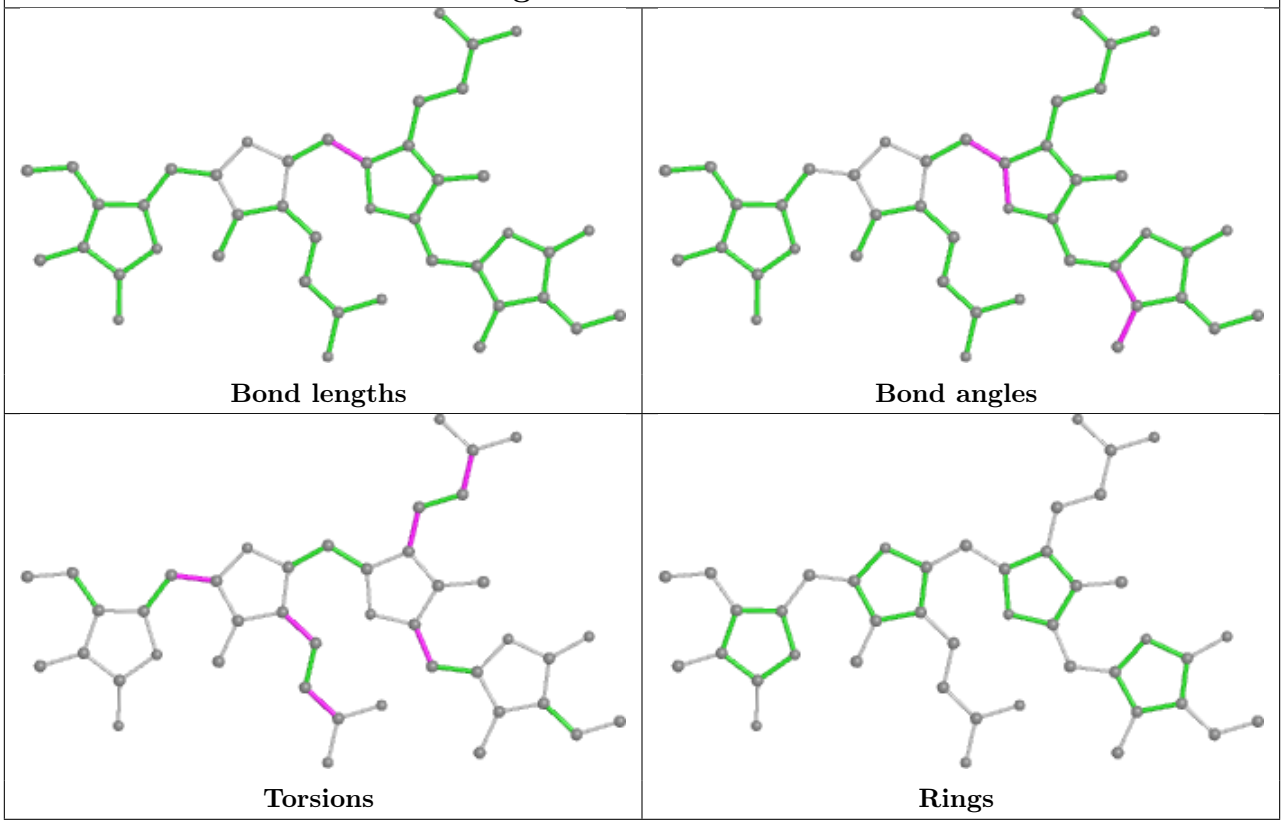


Rings

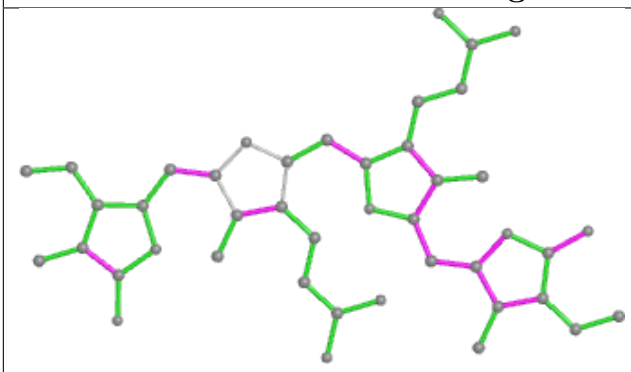
Ligand CYC J4 1001



Ligand CYC K2 202



Ligand CYC g8 1001



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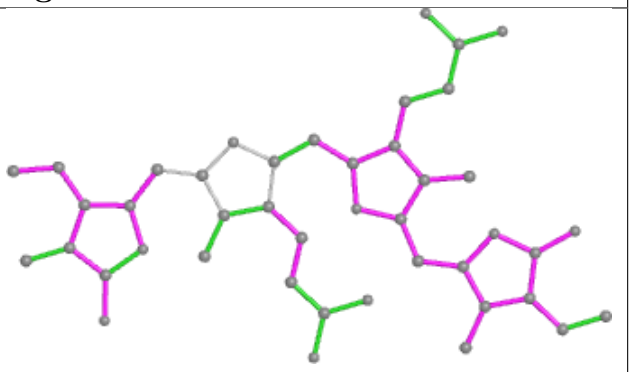

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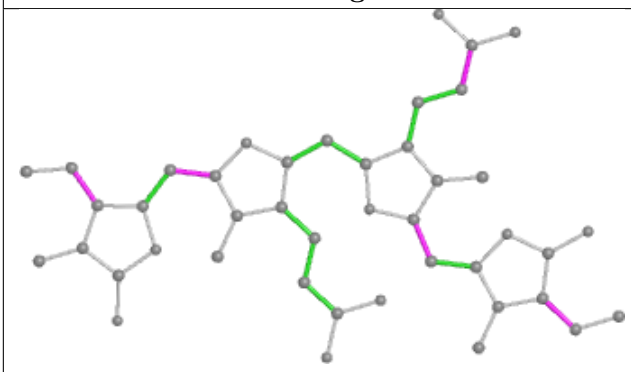

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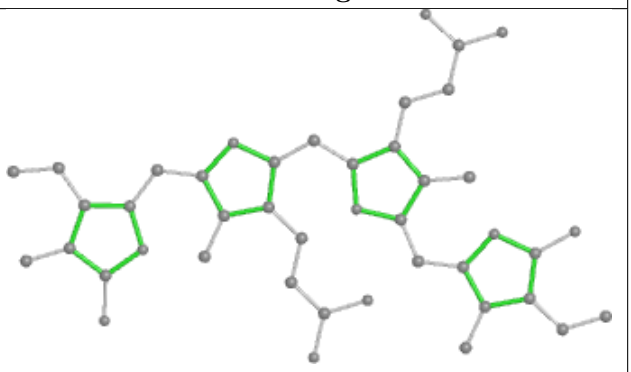

Rings

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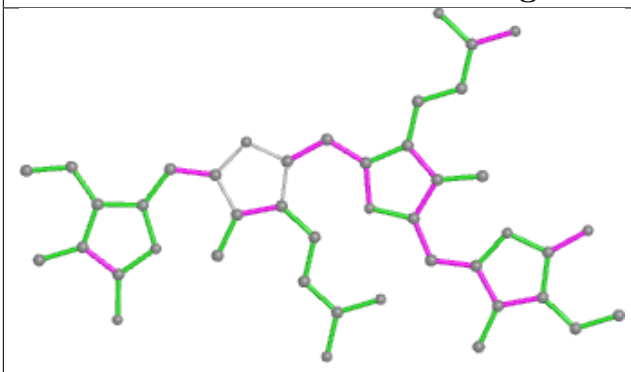

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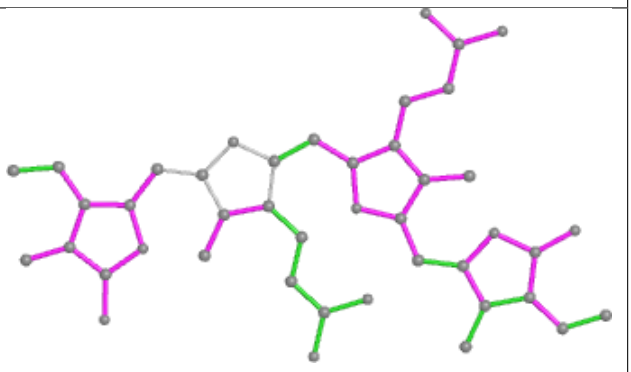
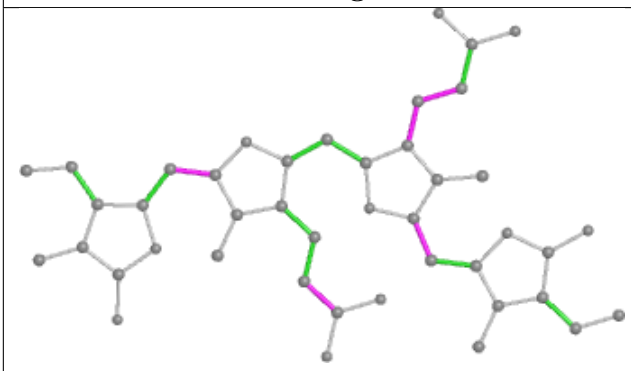


Bond angles



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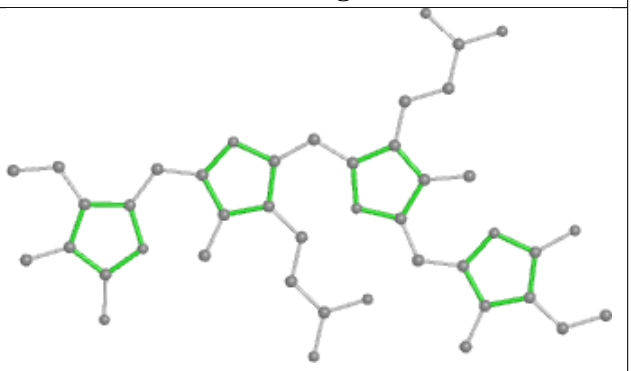
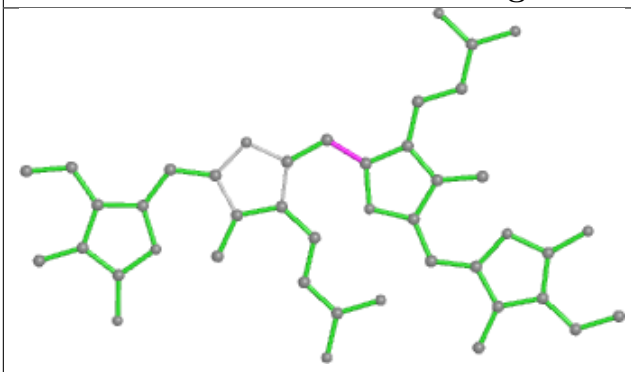


Rings

Ligand CYC RA 201



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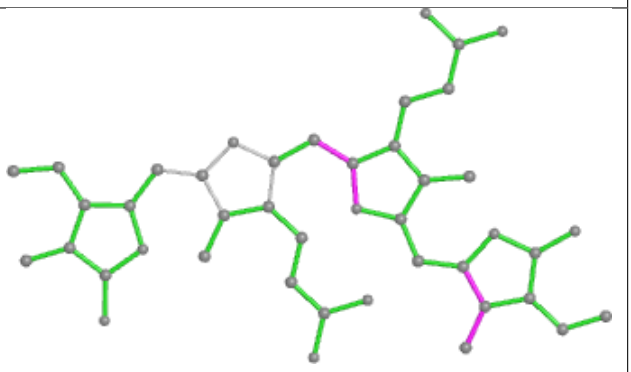

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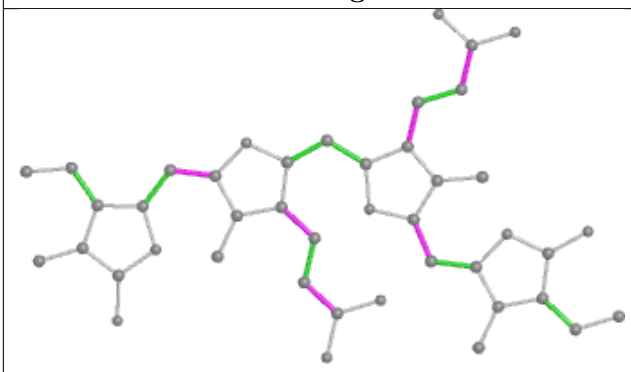

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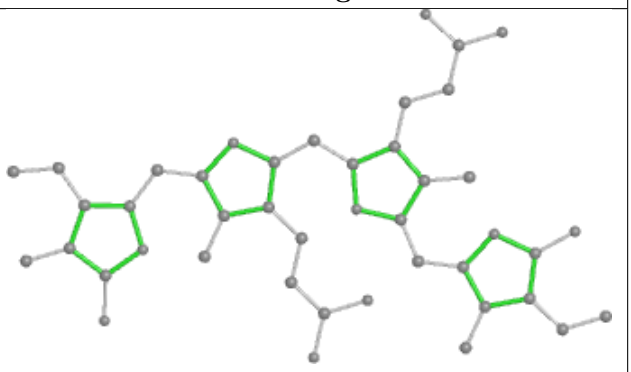
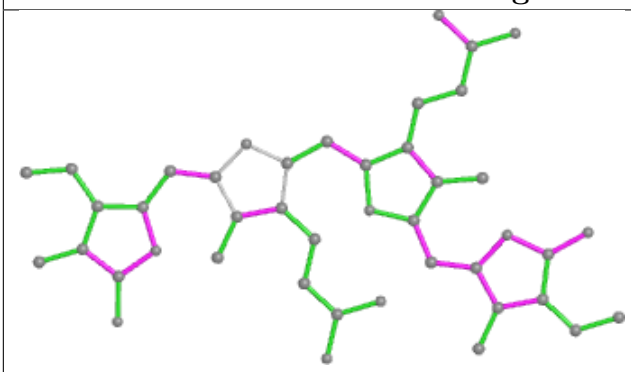


Rings

Ligand CYC G6 202



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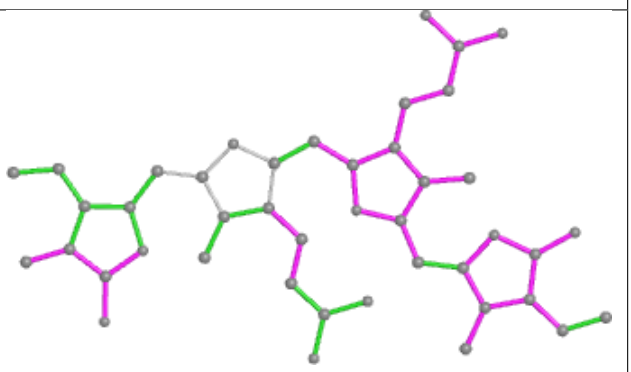

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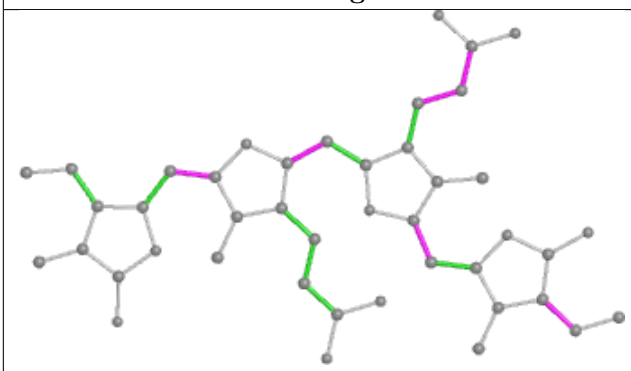

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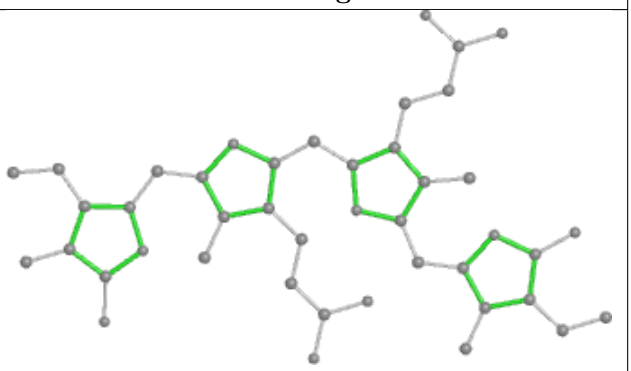
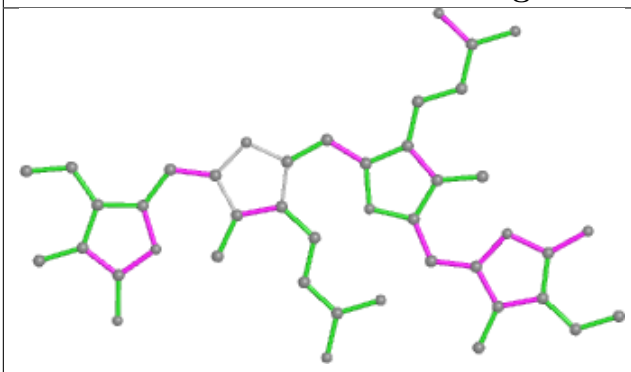


Rings

Ligand CYC Y1 201



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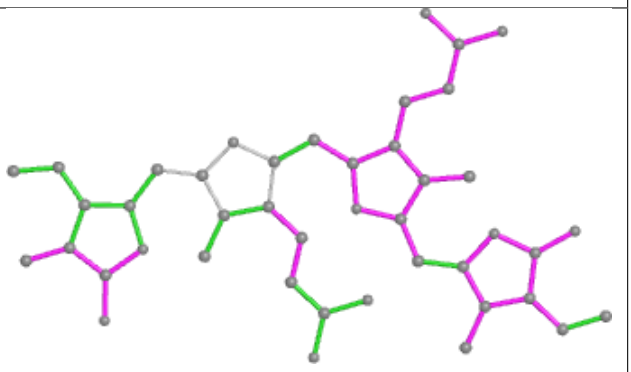

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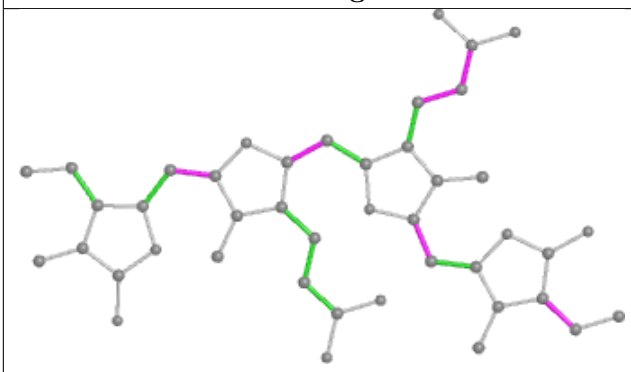

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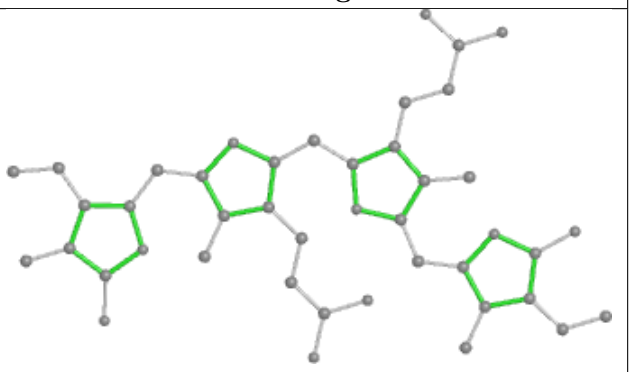
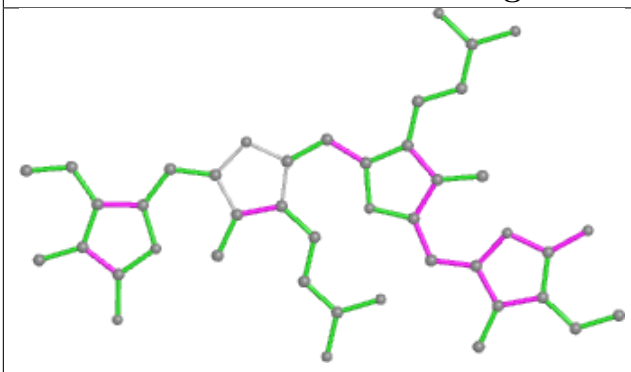


Rings

Ligand CYC R9 1001



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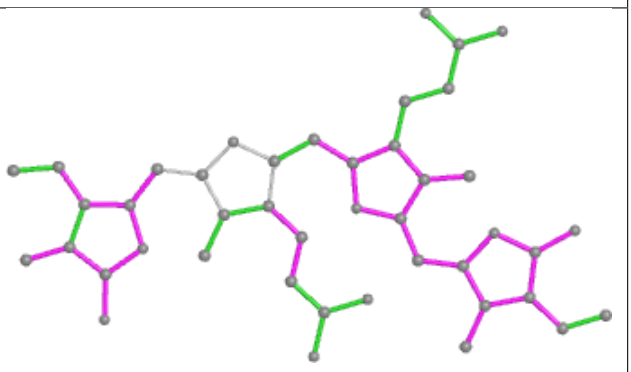
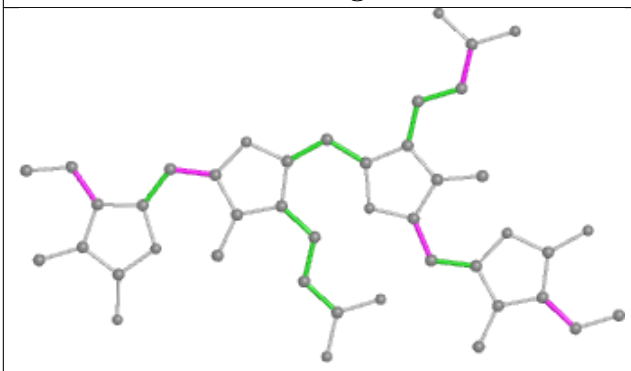


Bond angles



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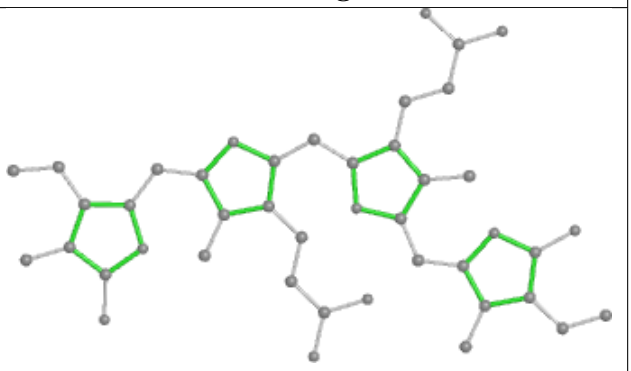
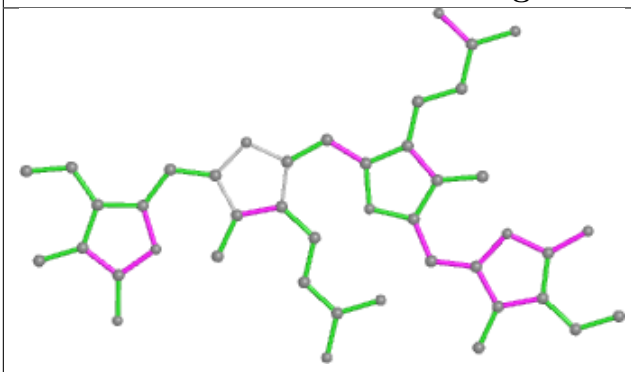


Rings

Ligand CYC A3 301



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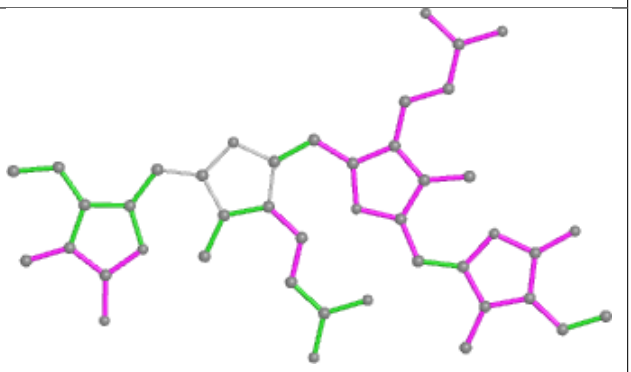

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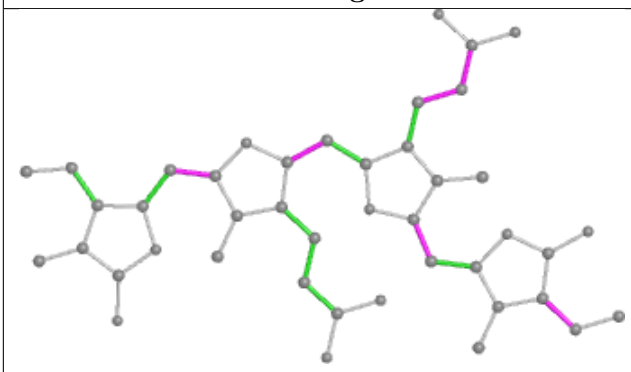

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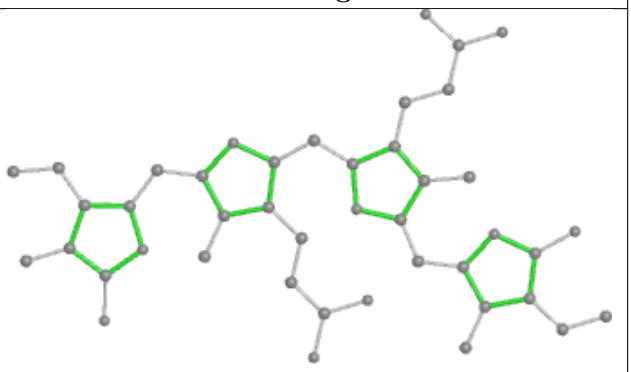
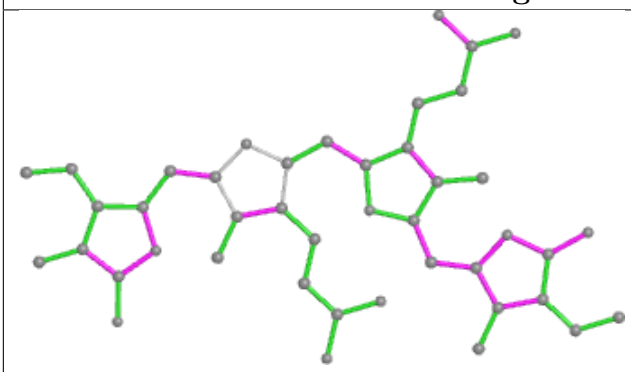
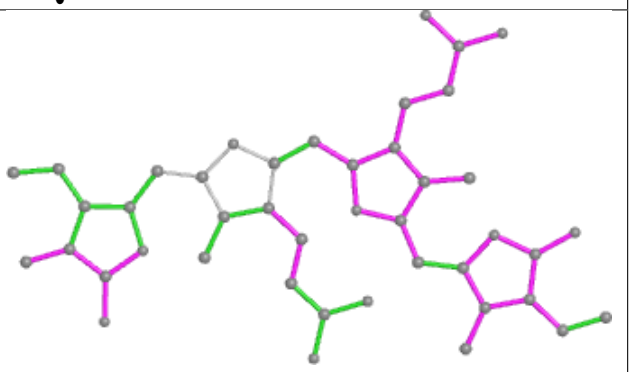


Rings

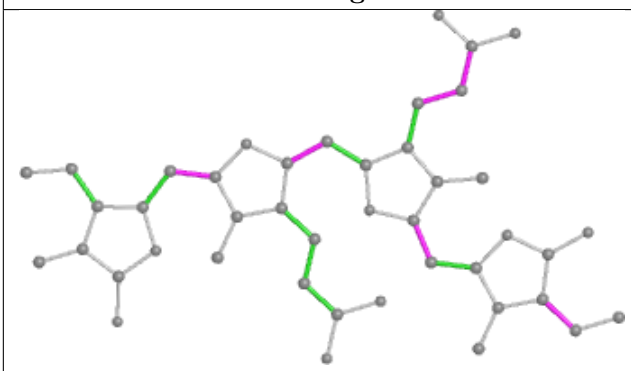
Ligand CYC Q6 201



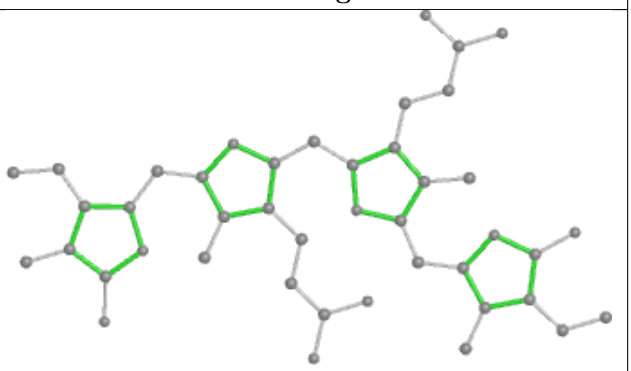
Bond lengths



Bond angles

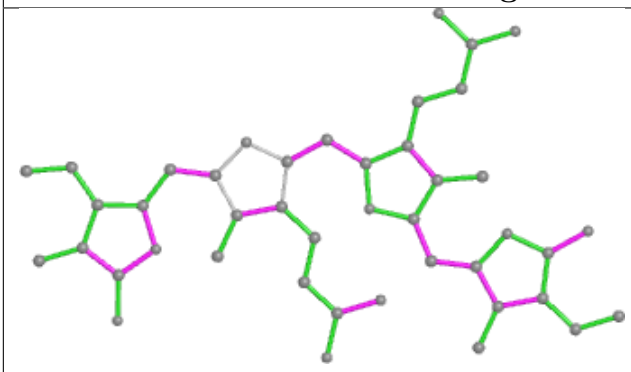


Torsions



Rings

Ligand CYC M8 1001



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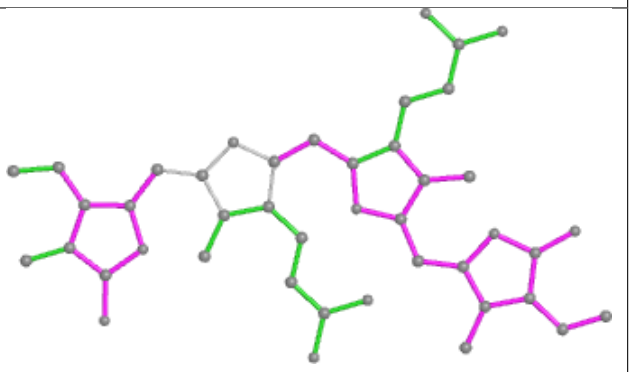

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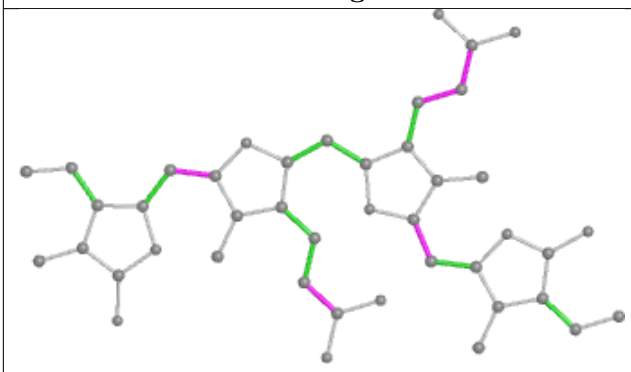

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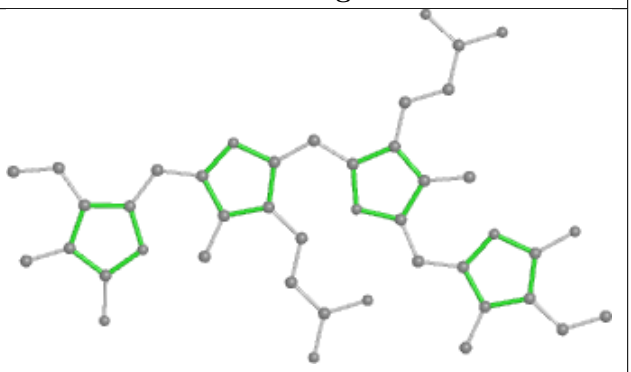
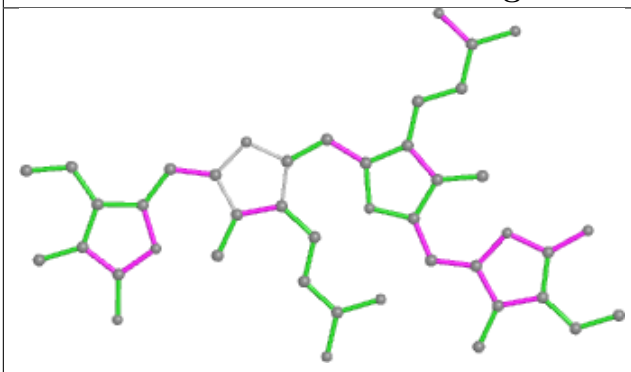


Rings

Ligand CYC D6 1001



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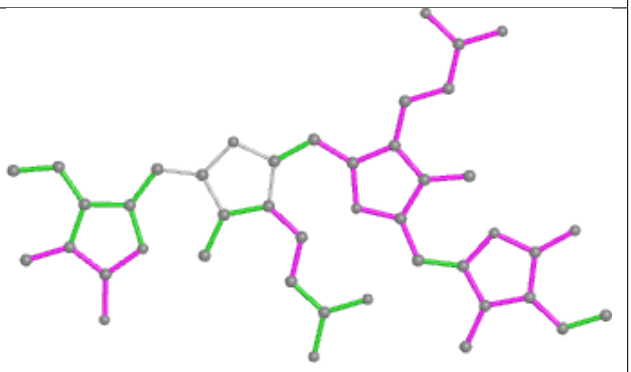
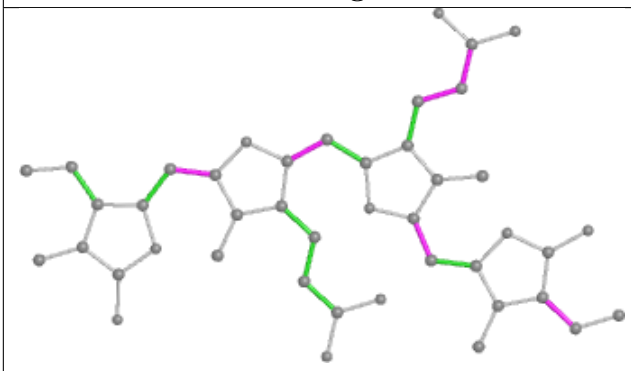


Bond angles



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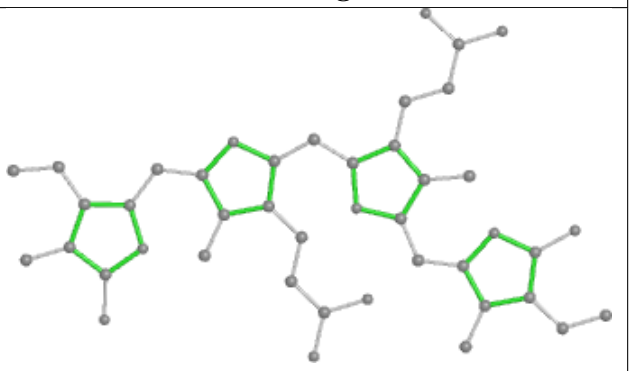
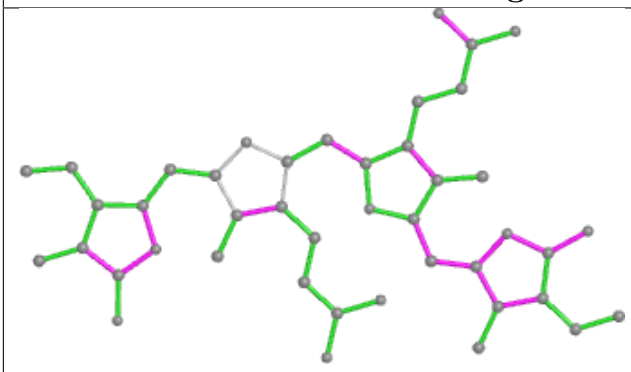


Rings

Ligand CYC S5 1001



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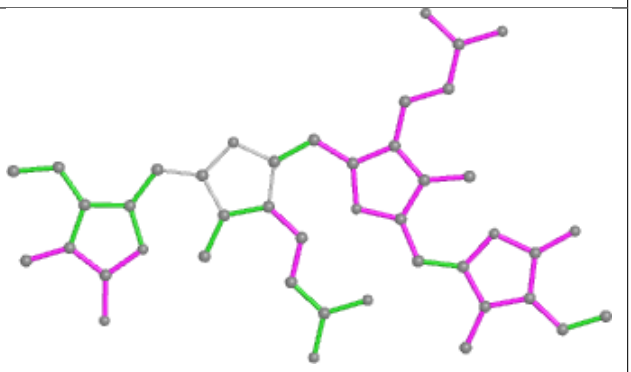
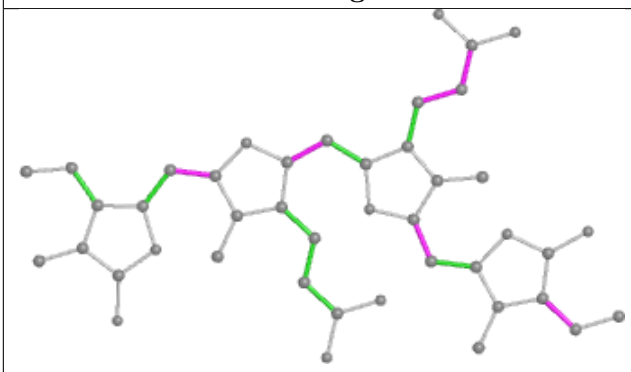


Bond angles



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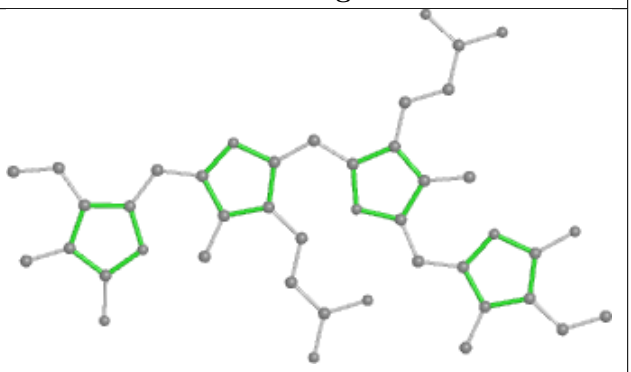
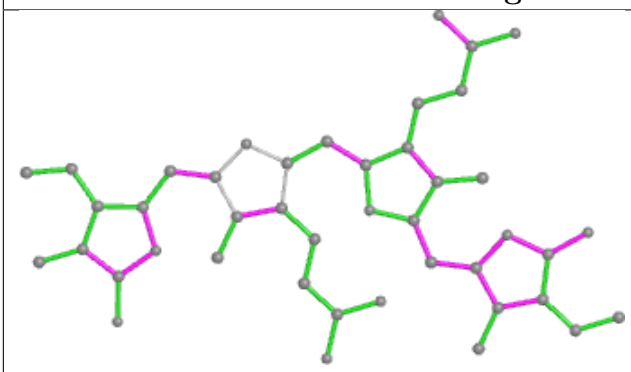


Rings

Ligand CYC B1 1001



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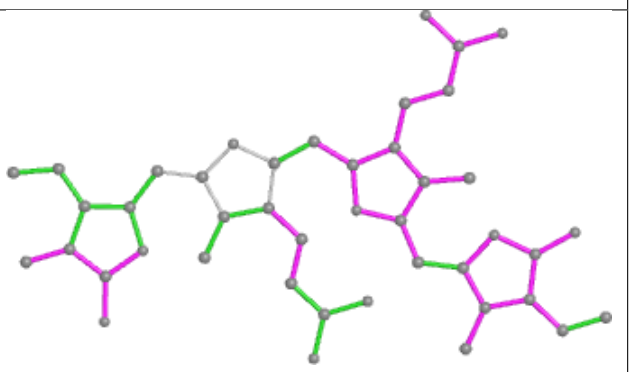

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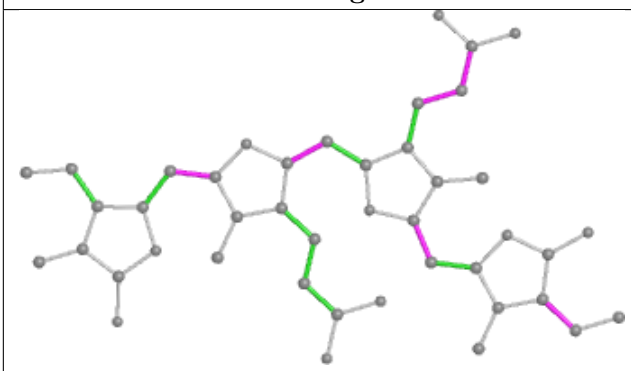

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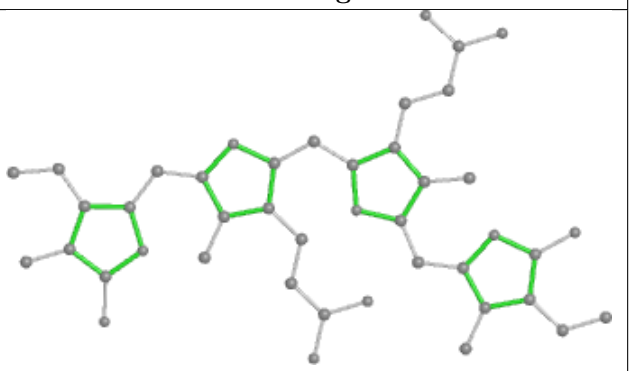
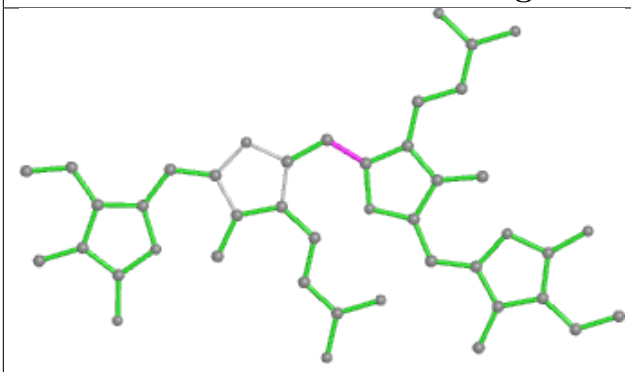


Rings

Ligand CYC Z5 202



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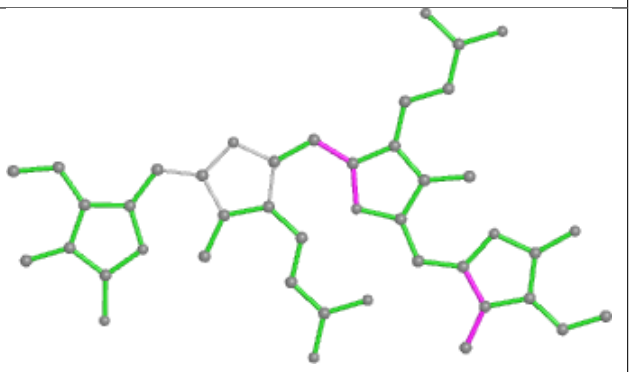
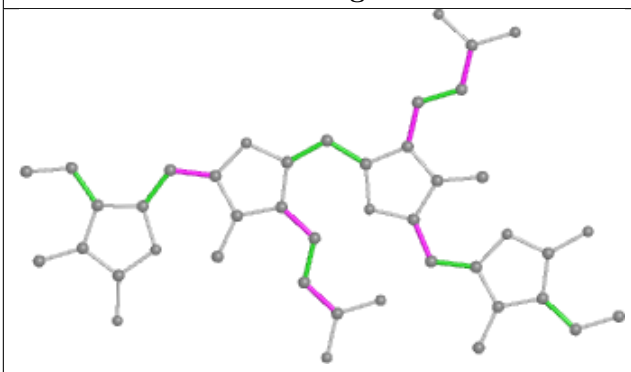


Bond angles



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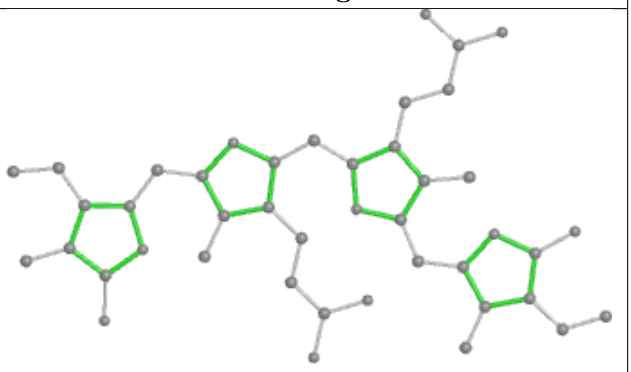
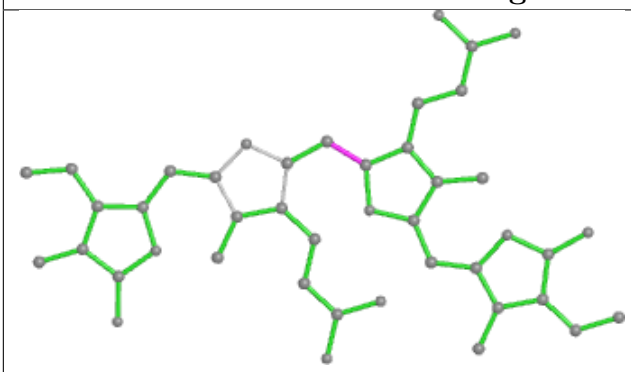


Rings

Ligand CYC M2 201



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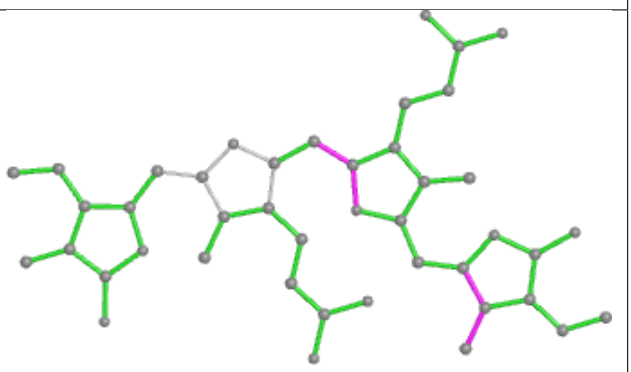
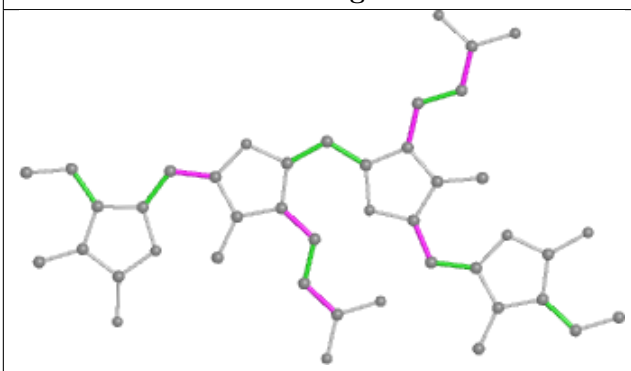


Bond angles



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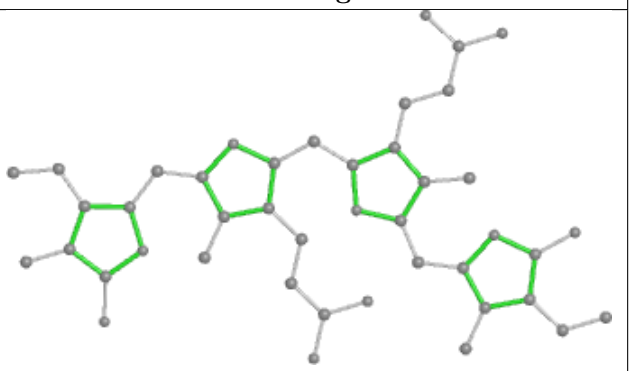
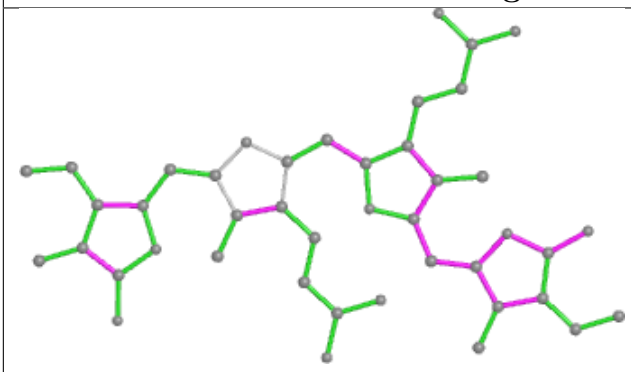


Rings

Ligand CYC N9 1001



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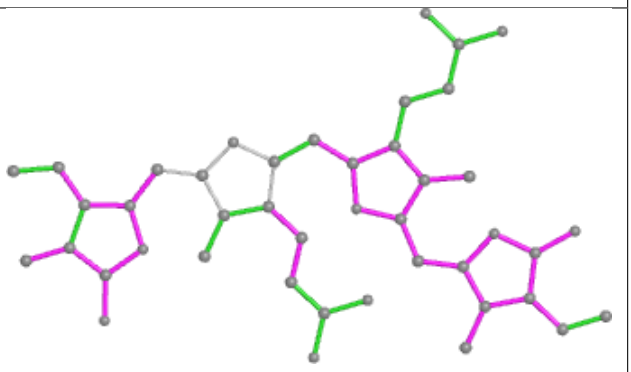
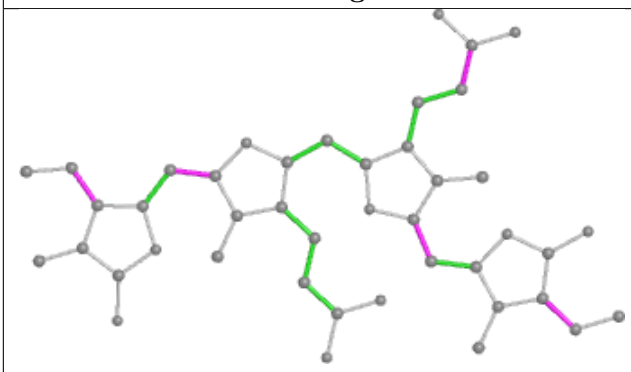


Bond angles



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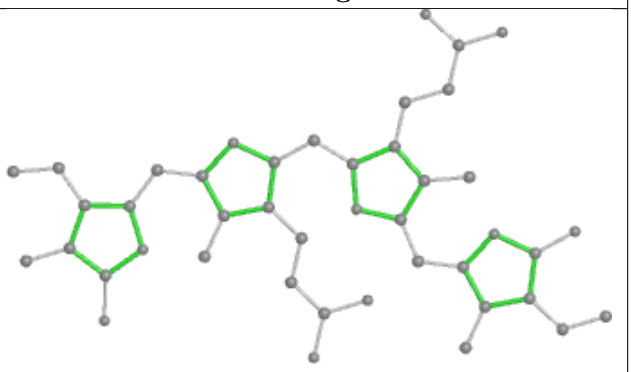
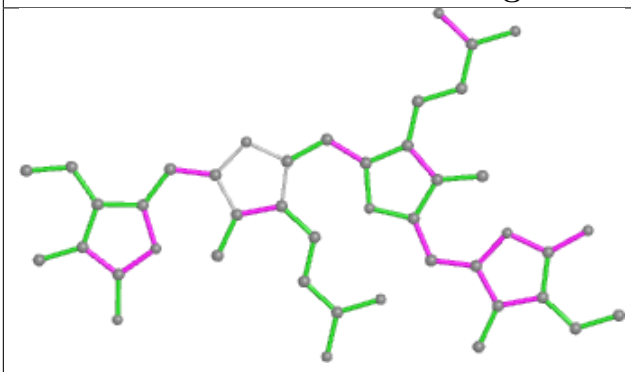


Rings

Ligand CYC JA 1001



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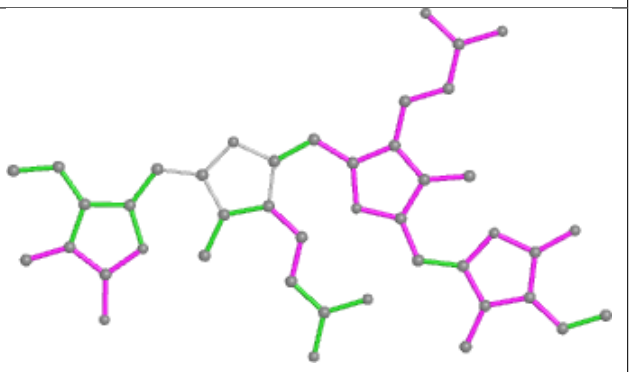
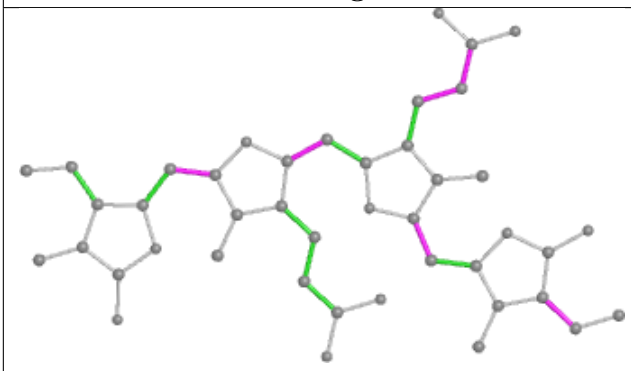
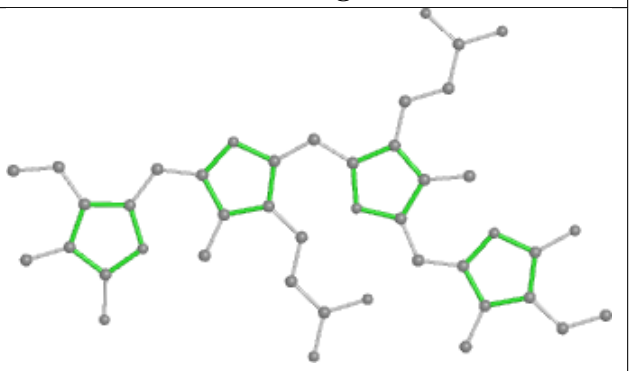


Bond angles

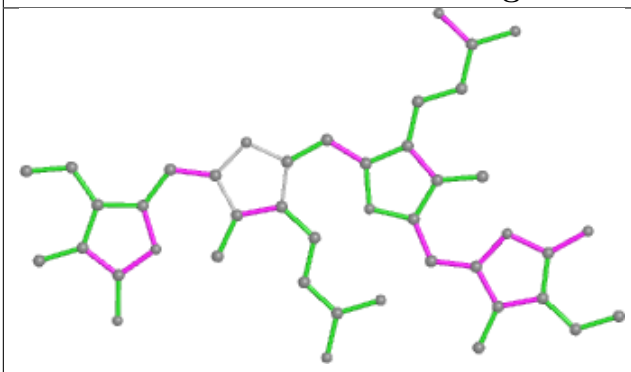


Torsions



Rings

Ligand CYC SA 1001



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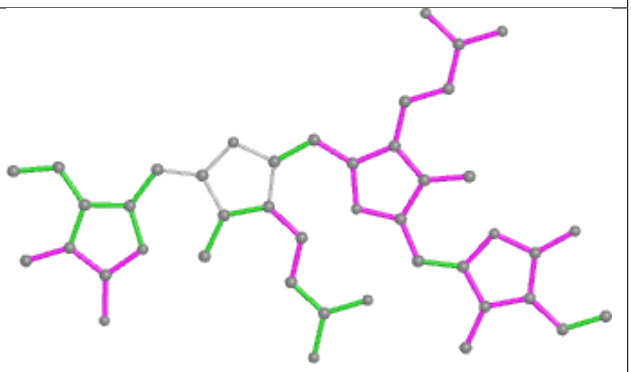
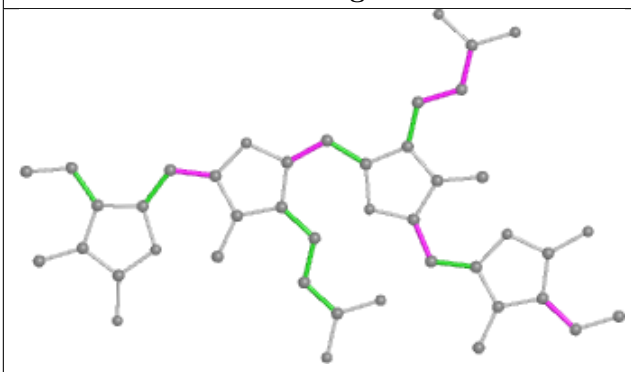
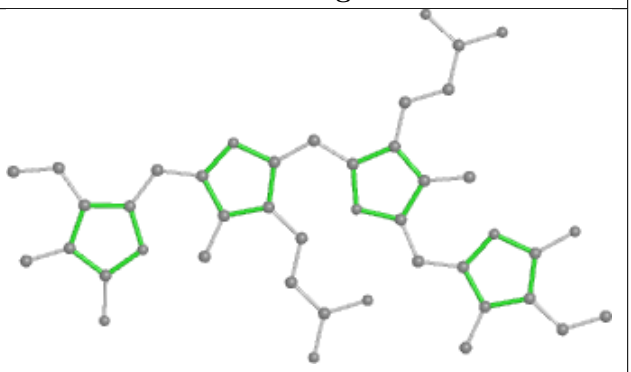


Bond angles

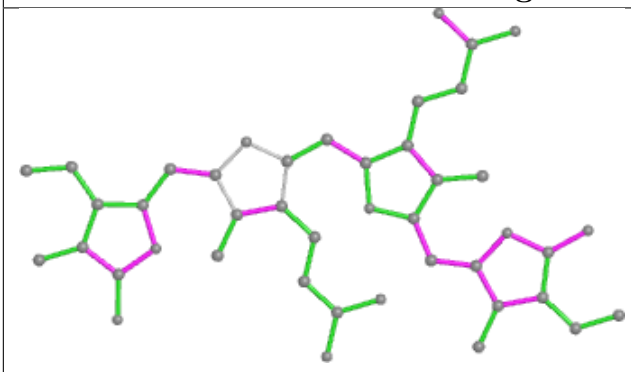


Torsions



Rings

Ligand CYC L1 201



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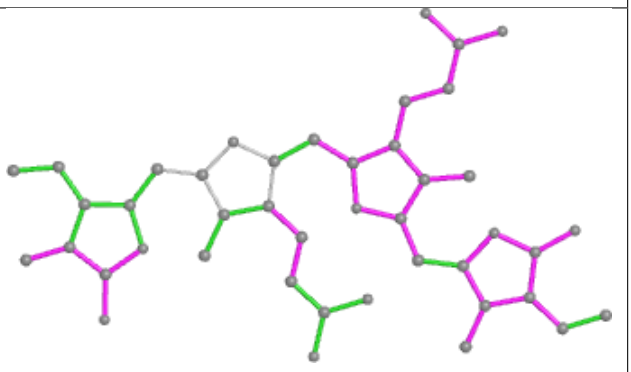
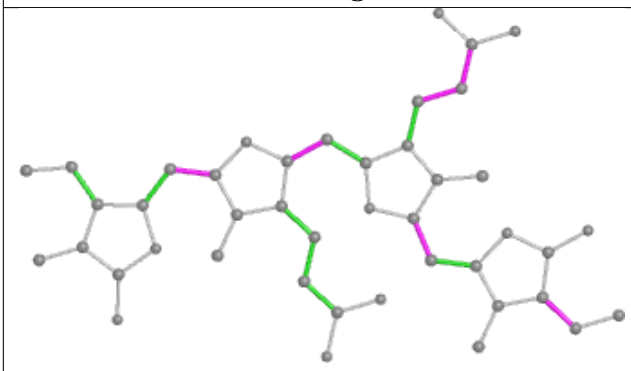
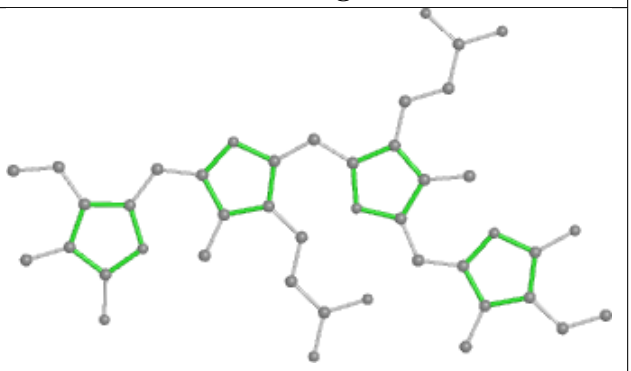


Bond angles

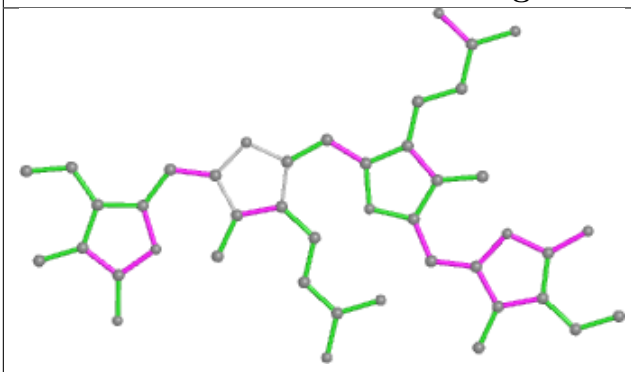


Torsions



Rings

Ligand CYC V2 202



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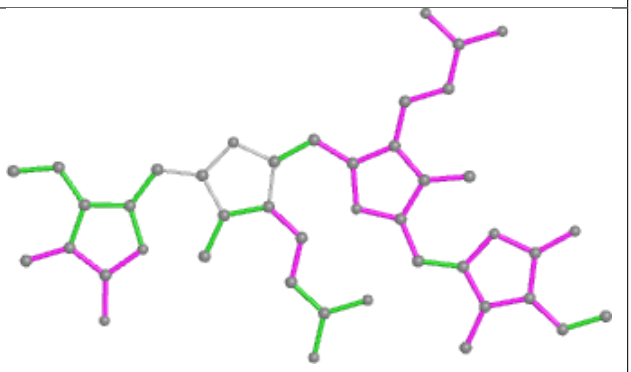
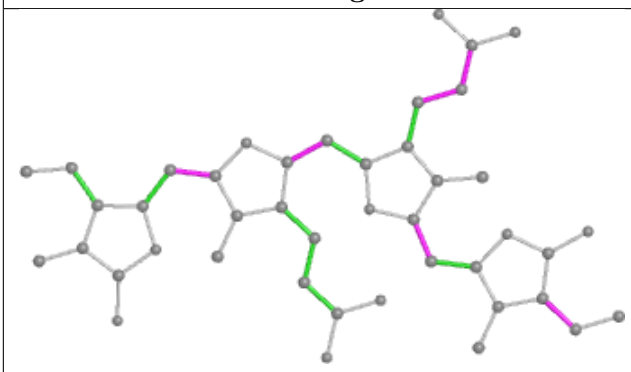


Bond angles



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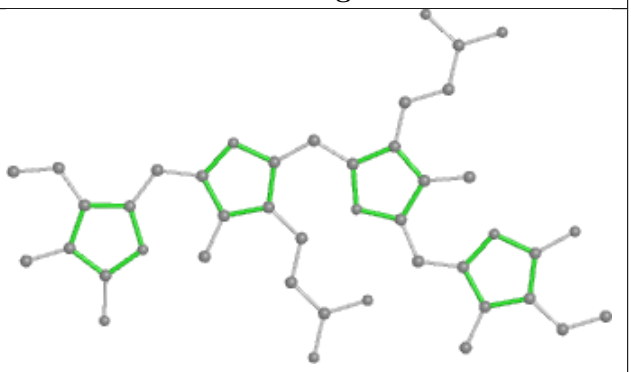
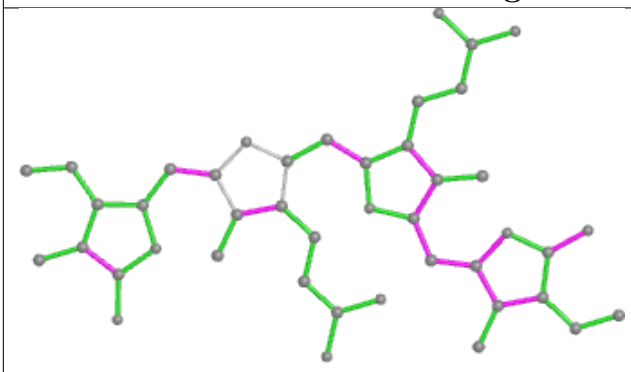


Rings

Ligand CYC O8 1001



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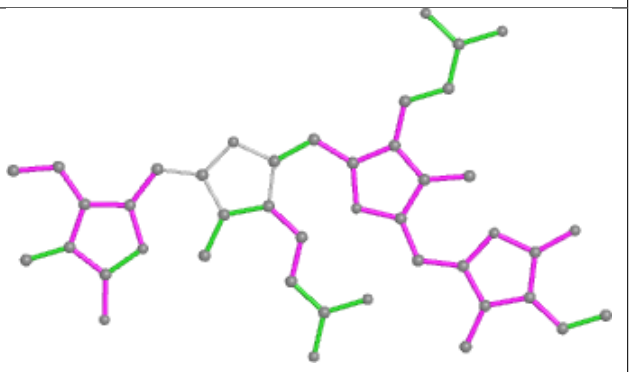
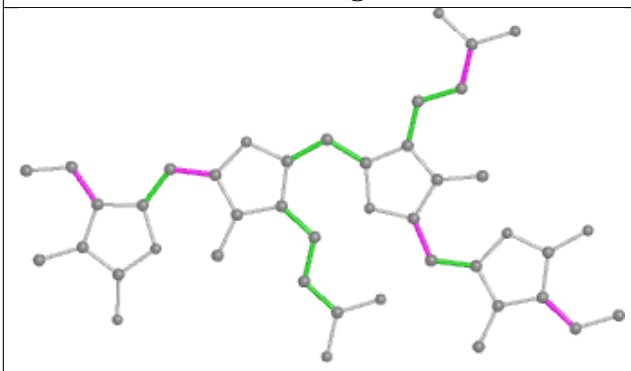
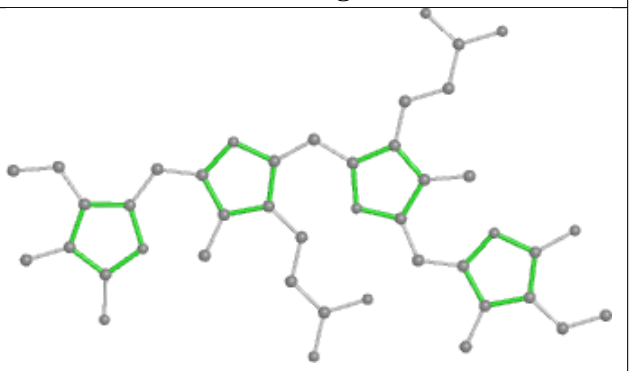


Bond angles

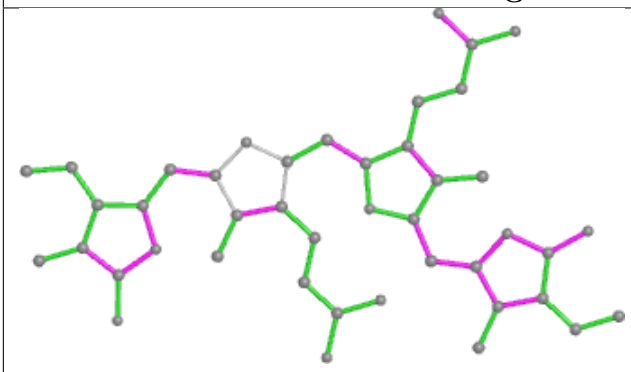


Torsions

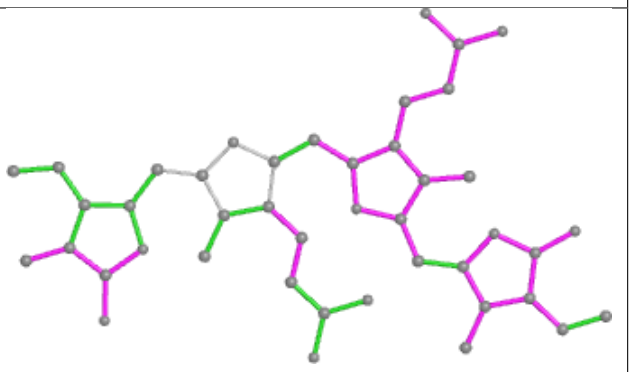


Rings

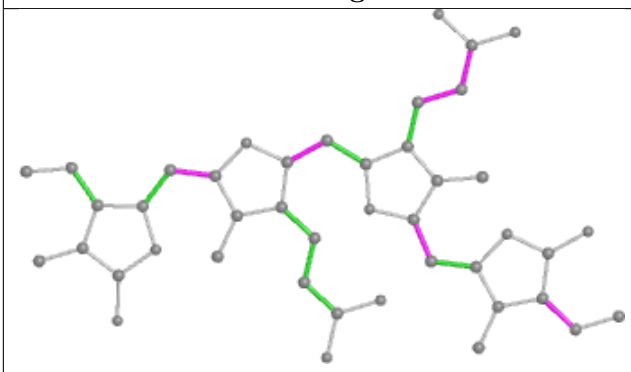
Ligand CYC F7 1001



Bond lengths



Bond angles



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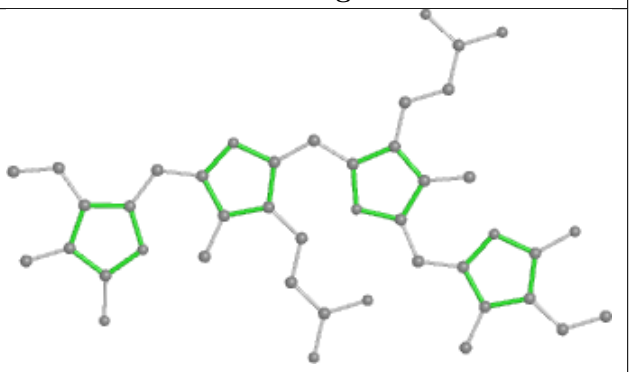
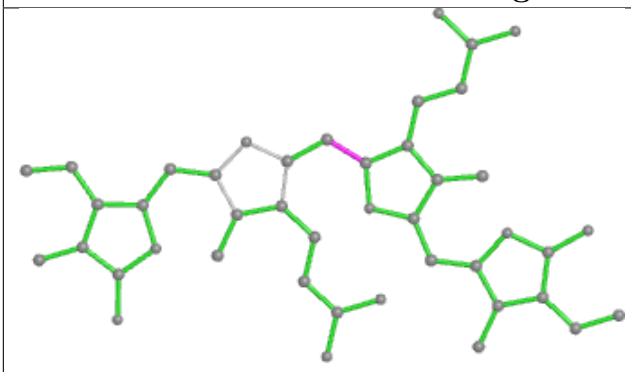
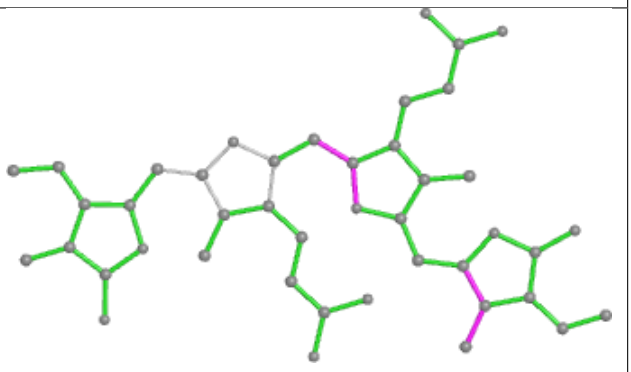


Rings

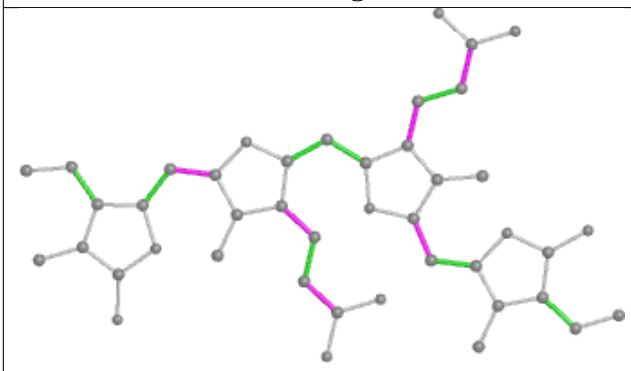
Ligand CYC R5 201



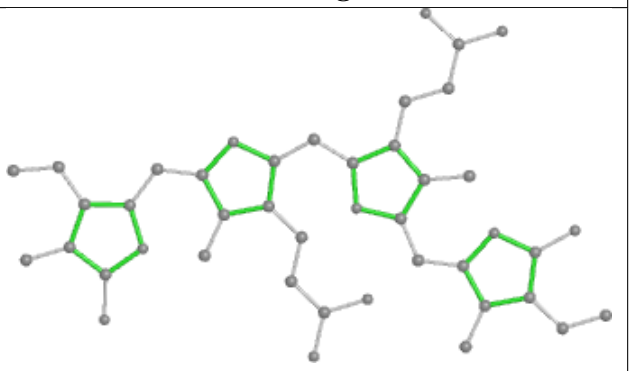
Bond lengths



Bond angles

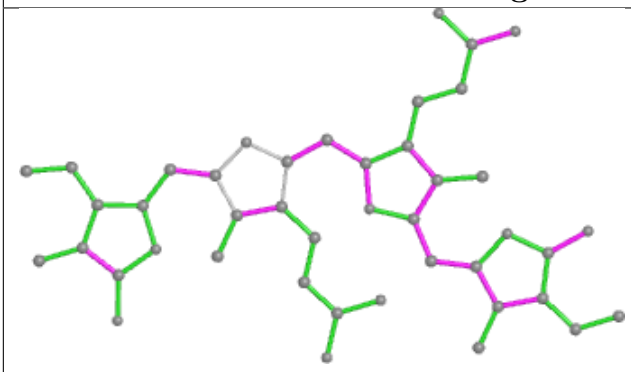


Torsions



Rings

Ligand CYC TA 201



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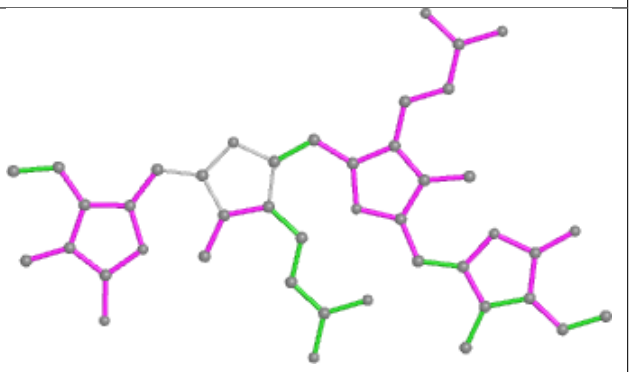

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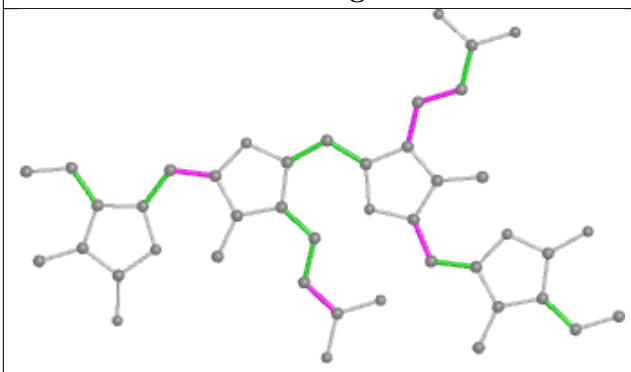

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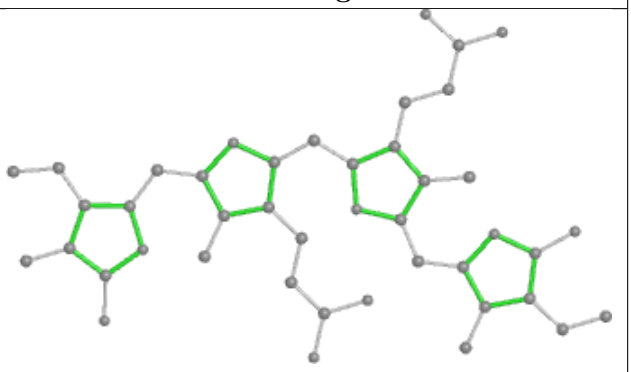
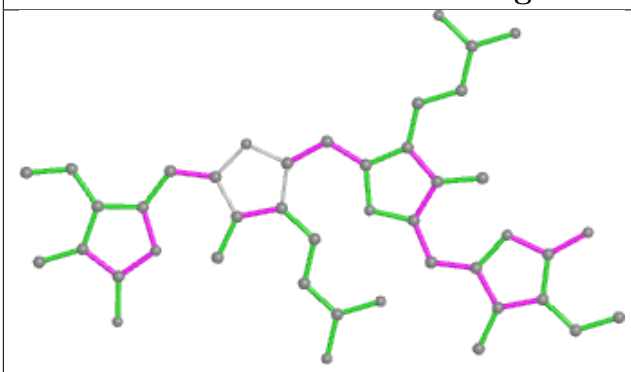


Rings

Ligand CYC E4 201



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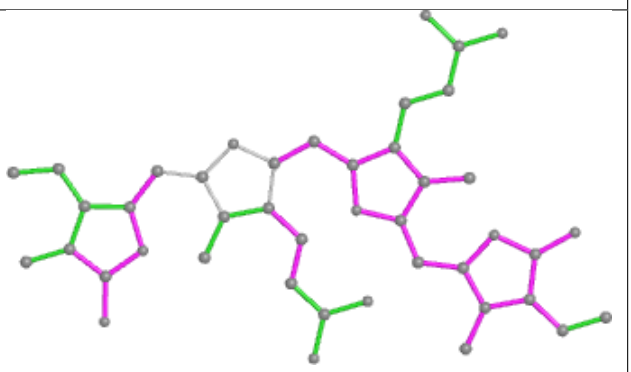

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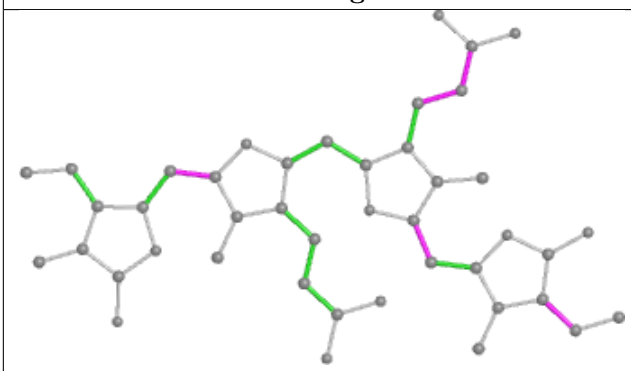

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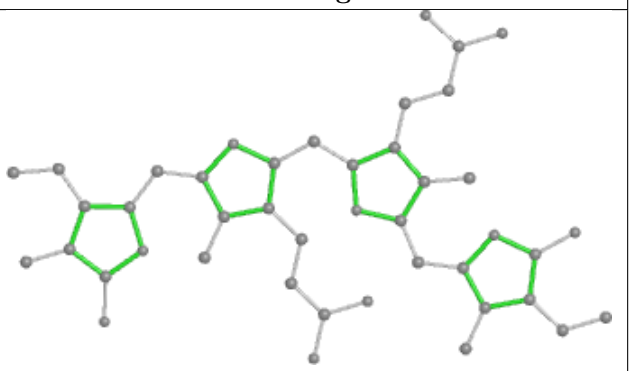
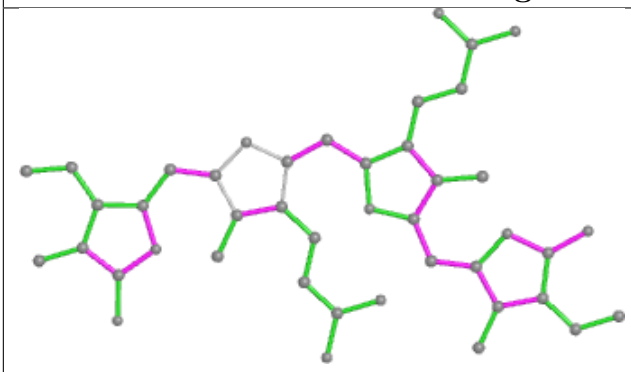


Rings

Ligand CYC E1 201



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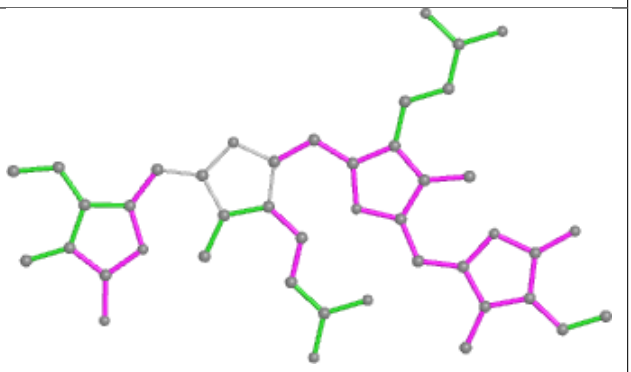

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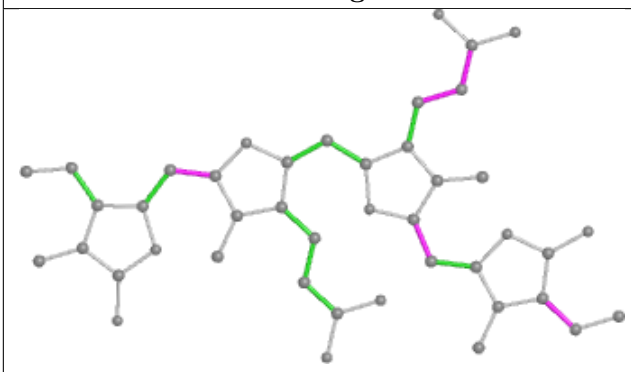

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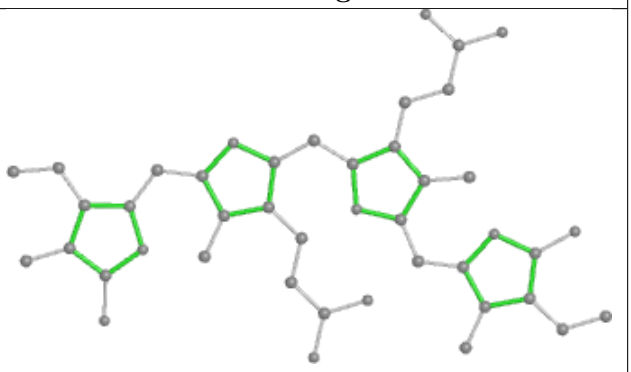
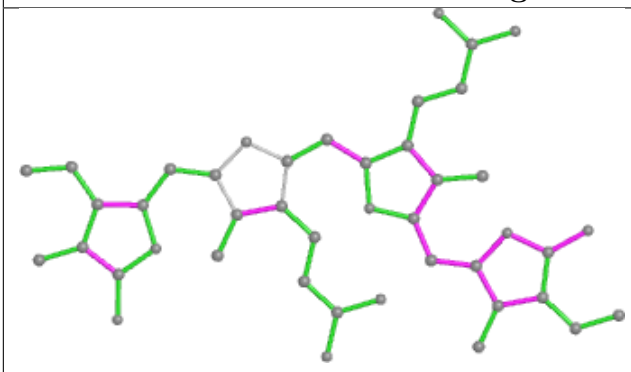


Rings

Ligand CYC s9 1001



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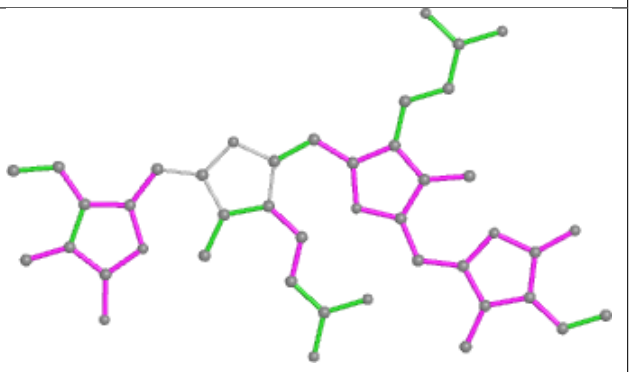

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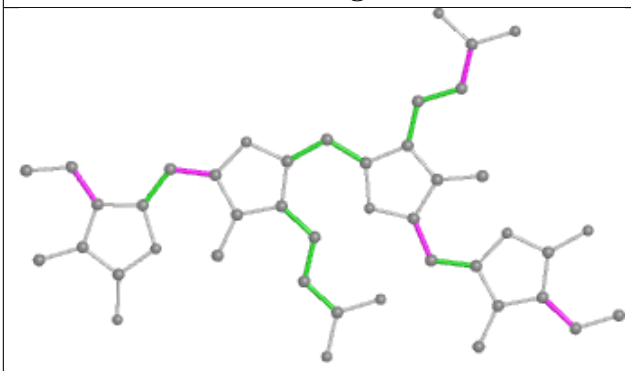

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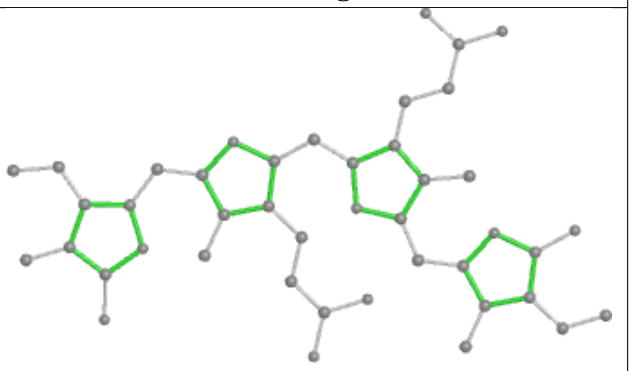
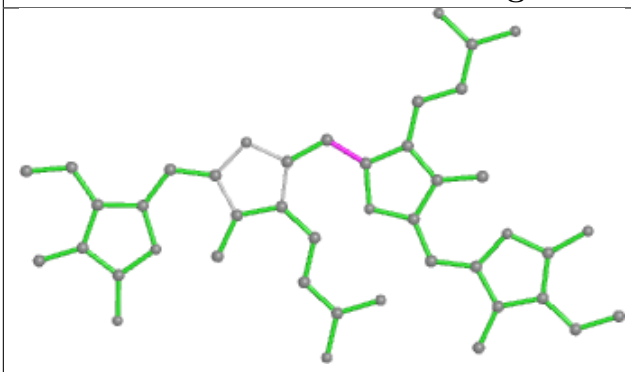


Rings

Ligand CYC KA 201



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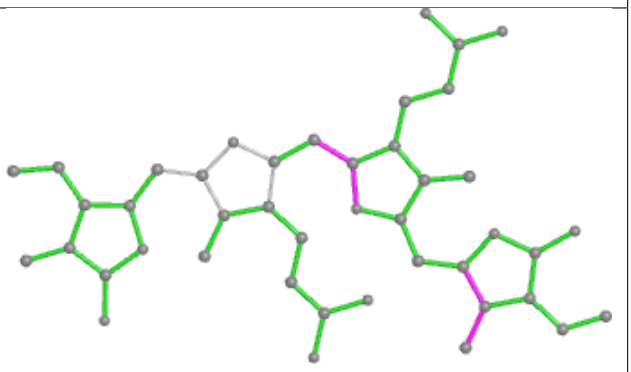

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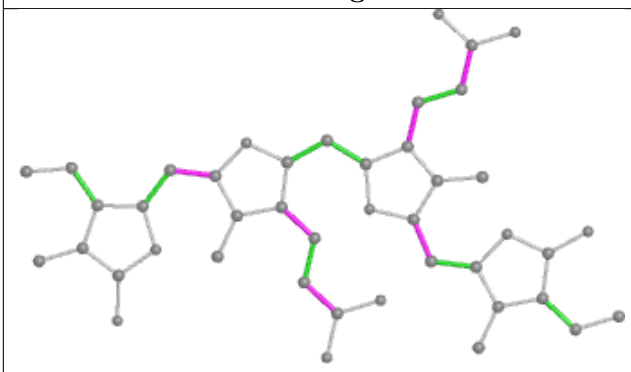

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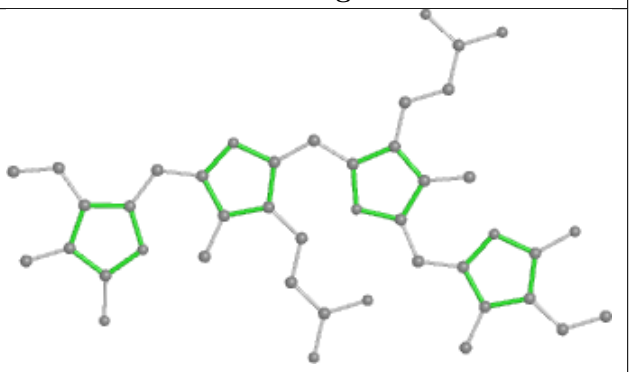
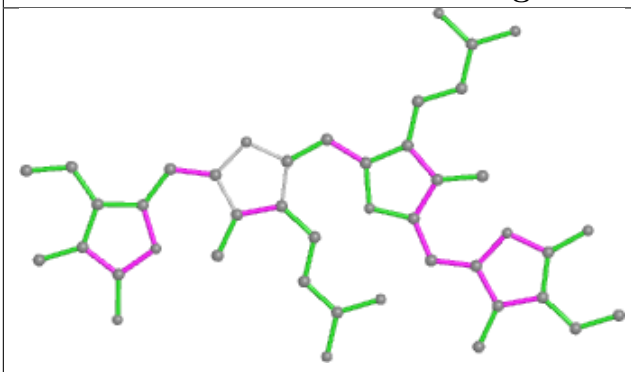


Rings

Ligand CYC V9 201



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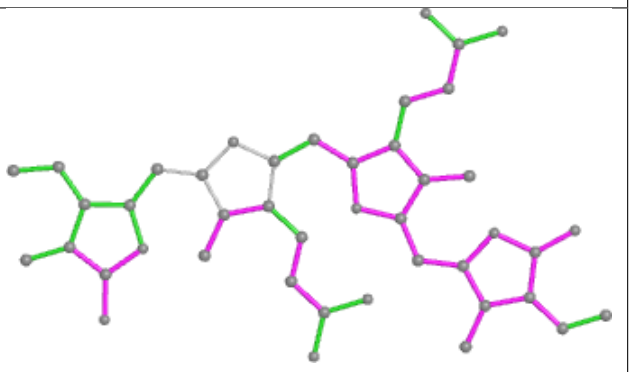
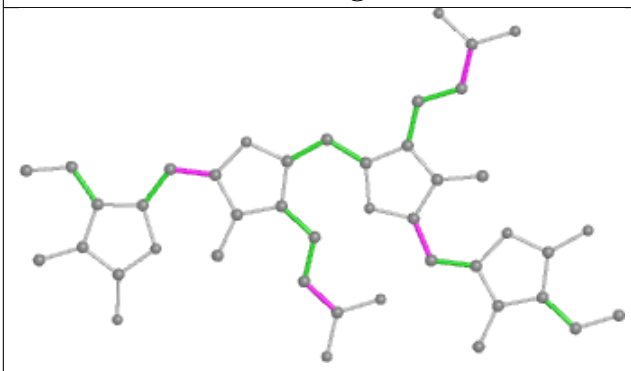


Bond angles



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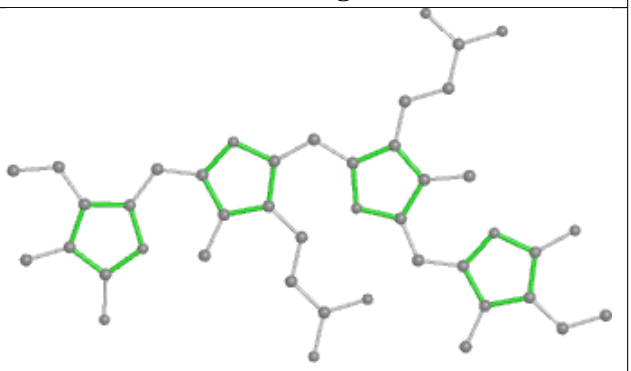
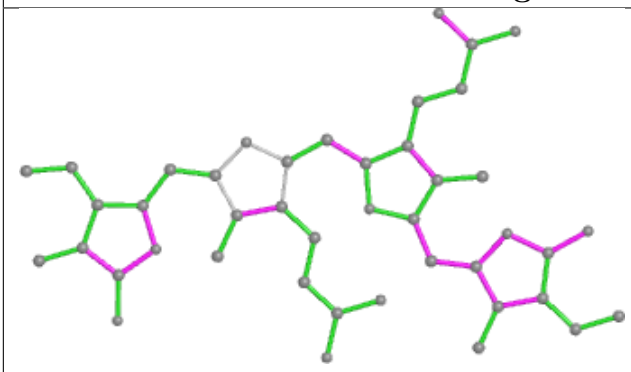


Rings

Ligand CYC P5 203



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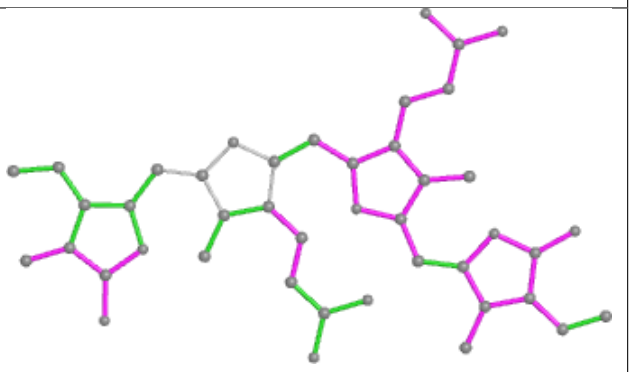

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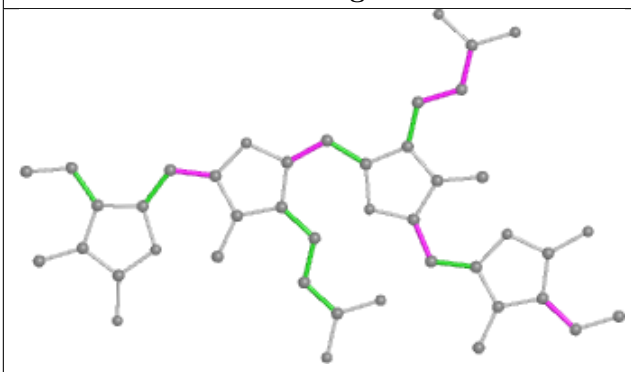

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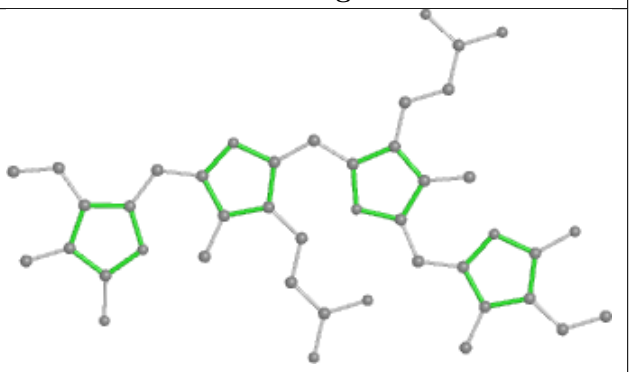
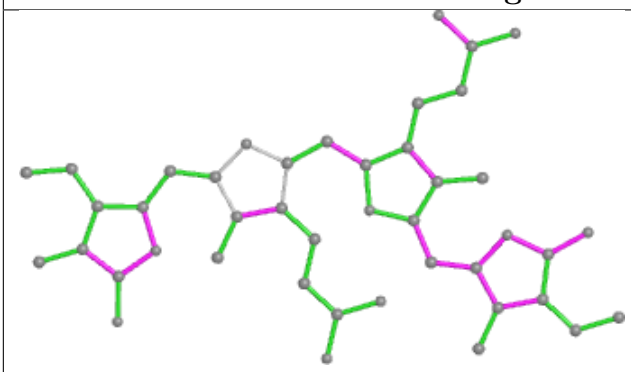


Rings

Ligand CYC B7 1001



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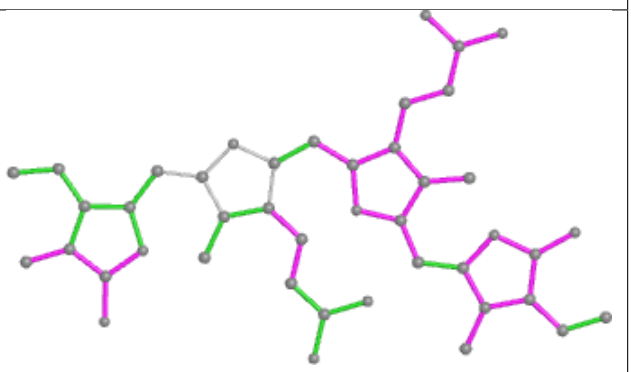
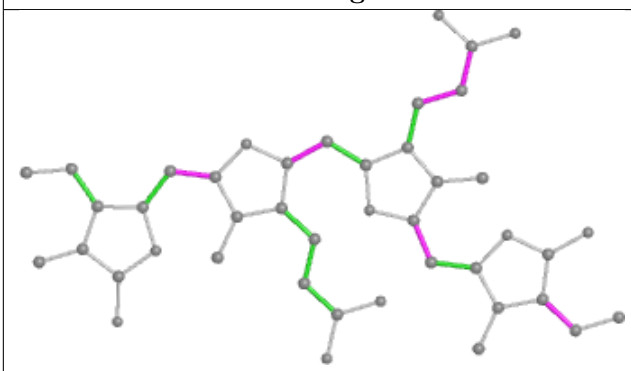
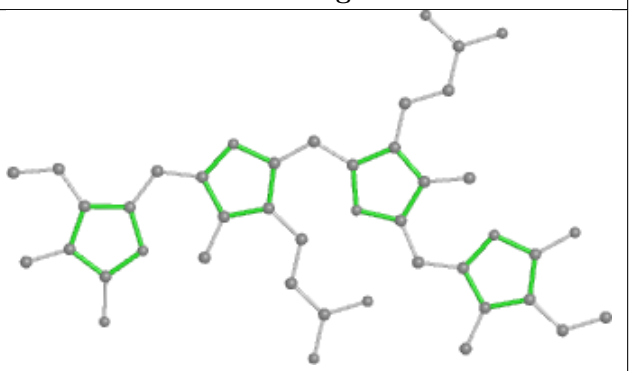


Bond angles

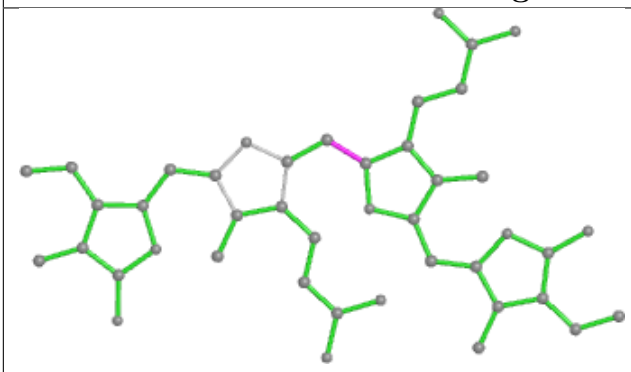


Torsions



Rings

Ligand CYC K3 202



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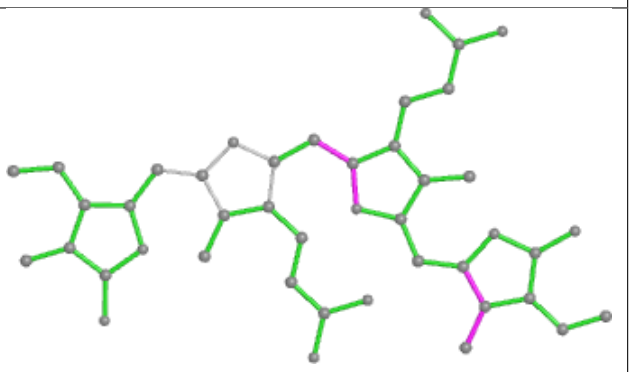

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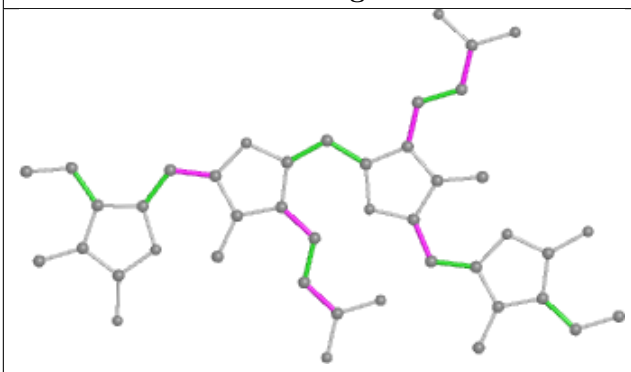

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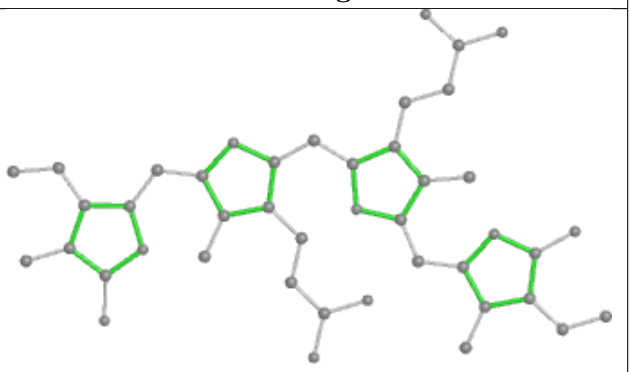
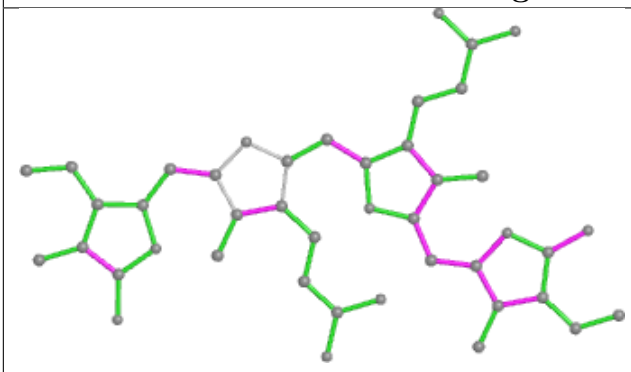


Rings

Ligand CYC l8 1001



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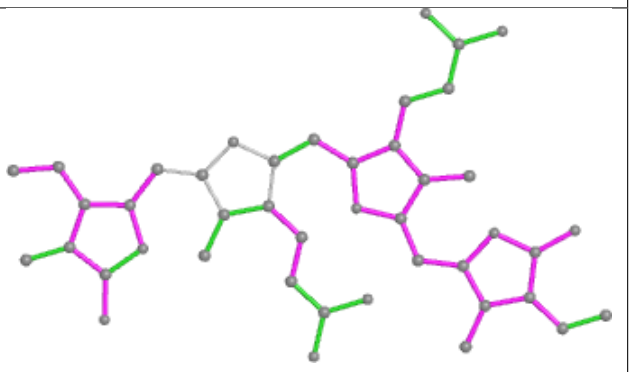

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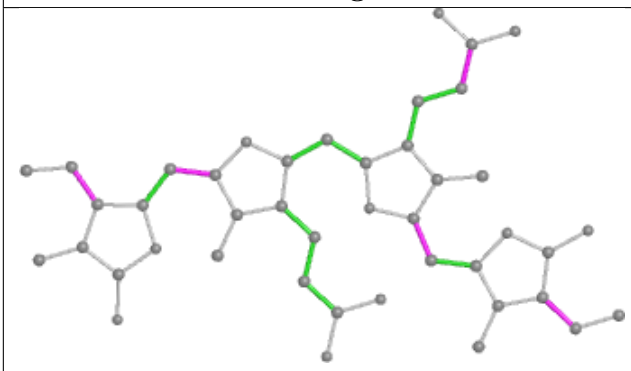

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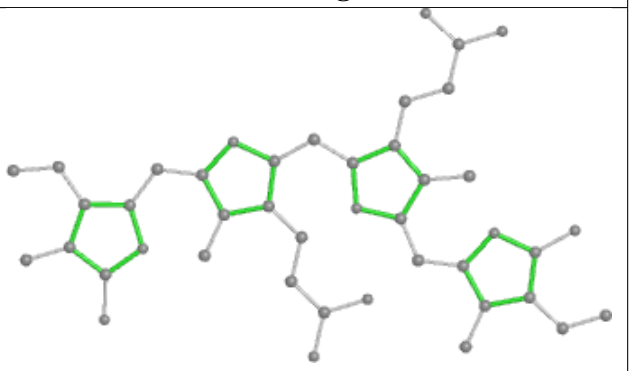
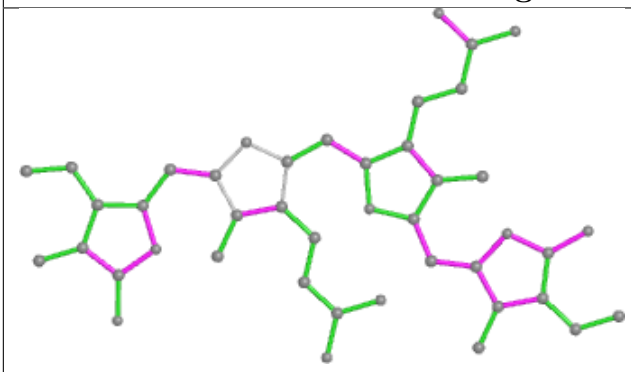


Rings

Ligand CYC Z4 202



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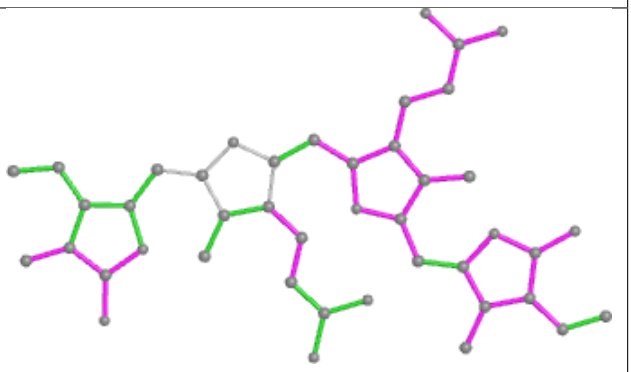
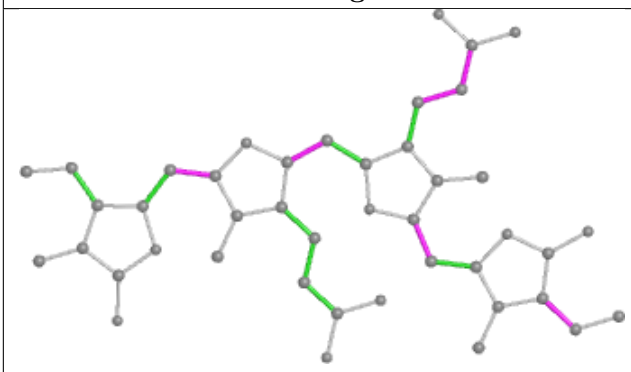


Bond angles



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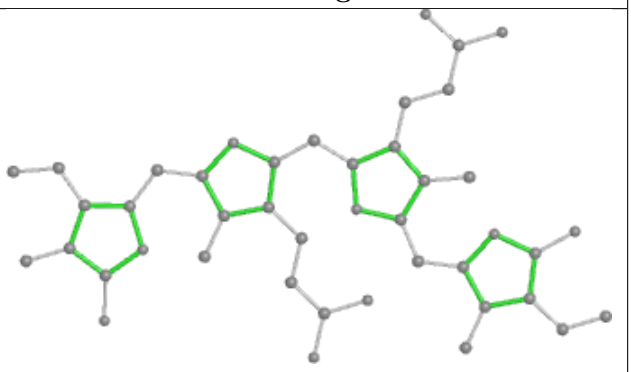
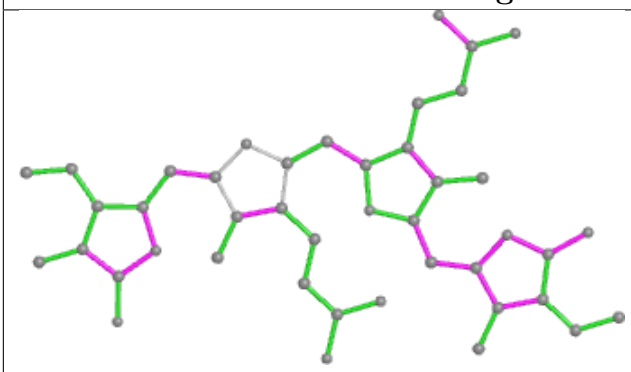


Rings

Ligand CYC WA 1001



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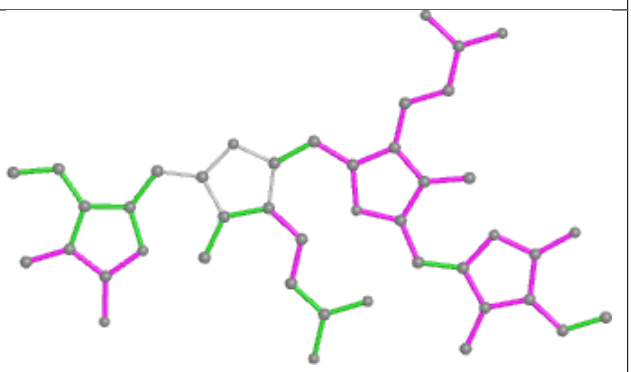
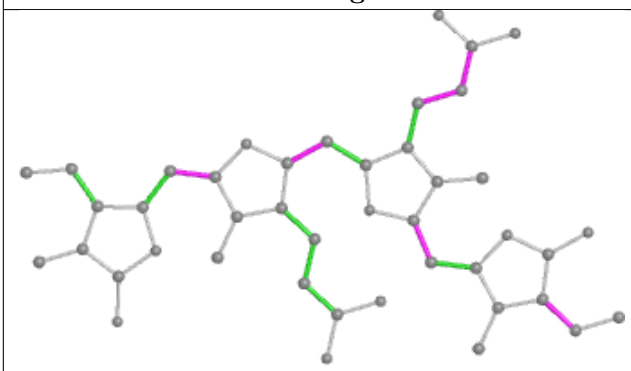


Bond angles



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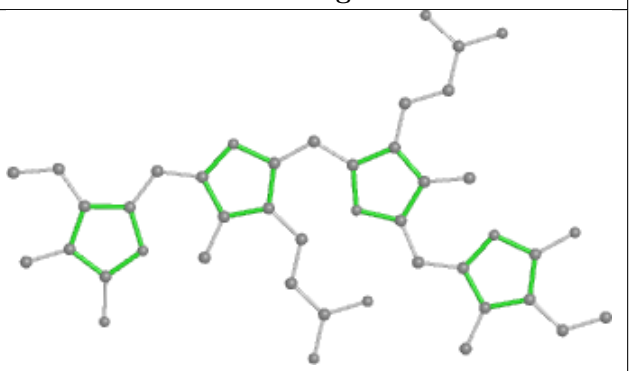
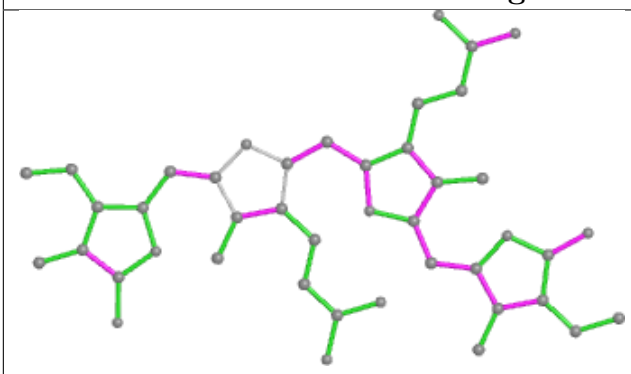


Rings

Ligand CYC XA 201



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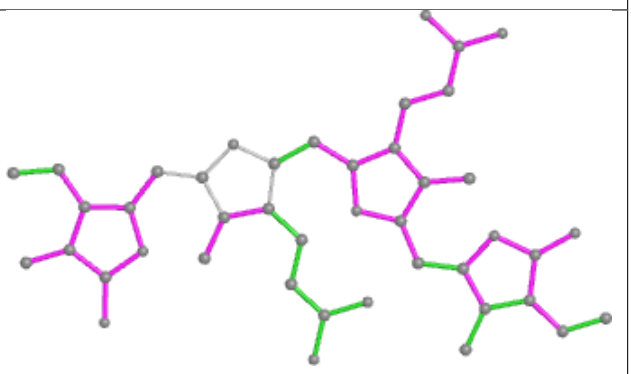
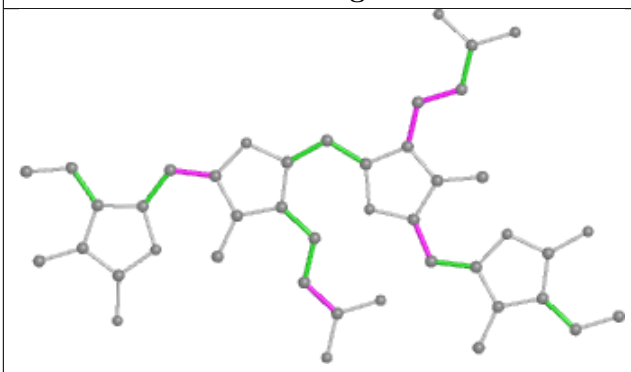
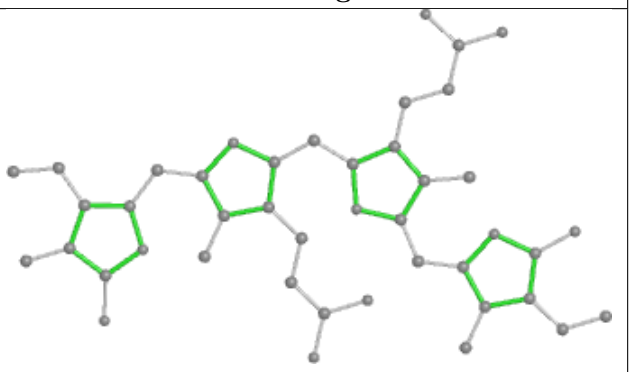


Bond angles

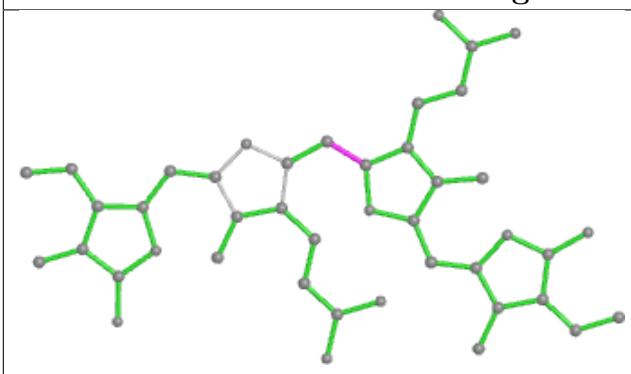


Torsions

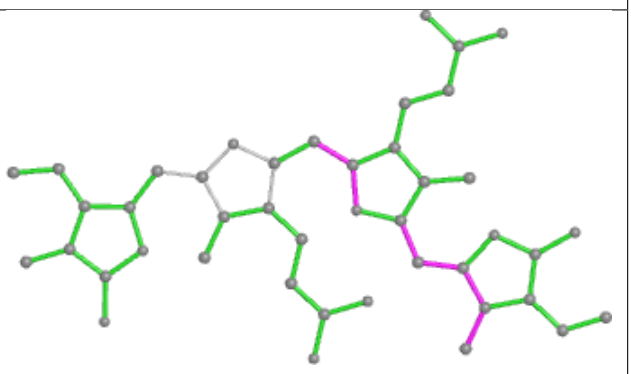


Rings

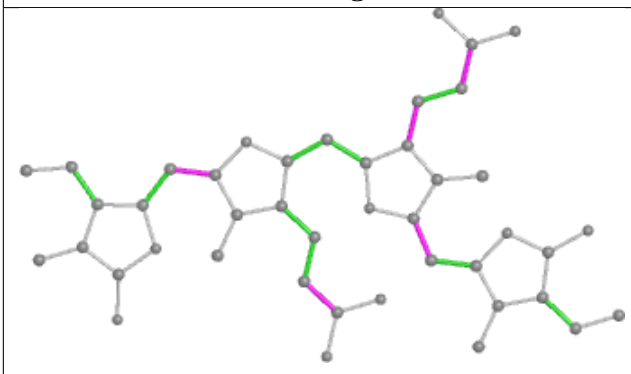
Ligand CYC N3 301



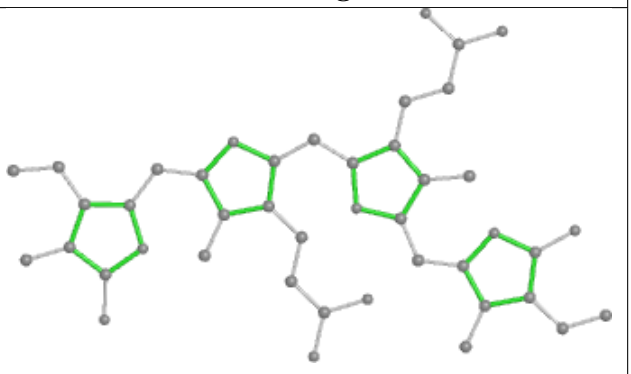
Bond lengths



Bond angles

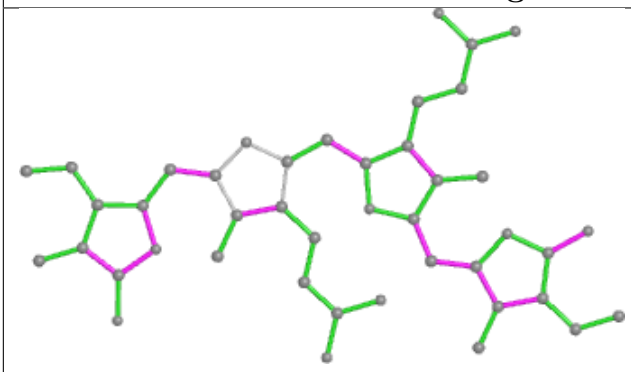


Torsions



Rings

Ligand CYC S9 1001



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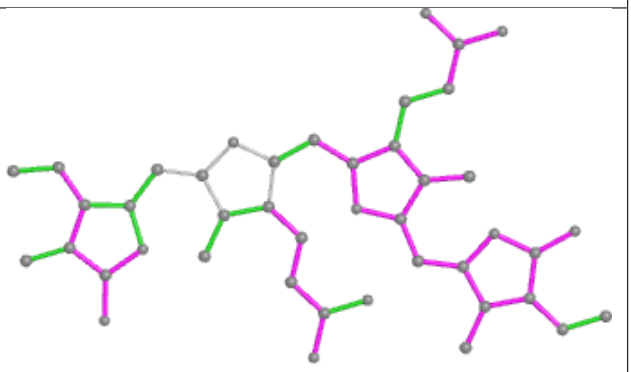

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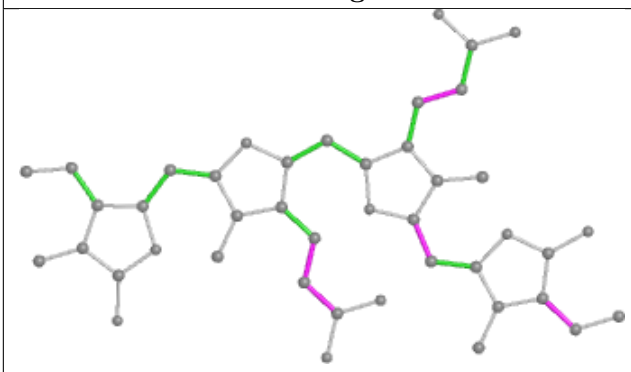

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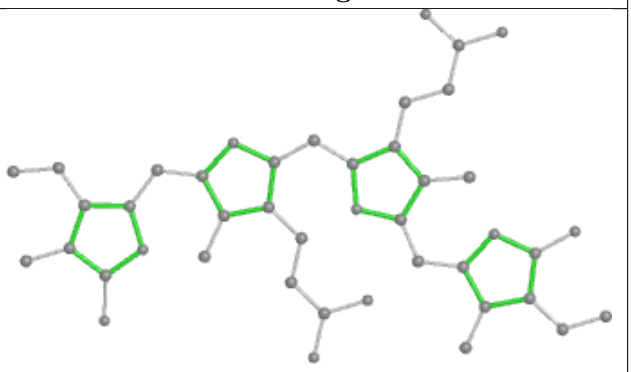
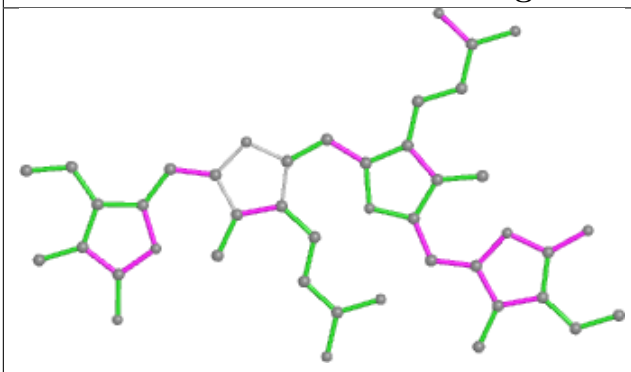


Rings

Ligand CYC Z6 202



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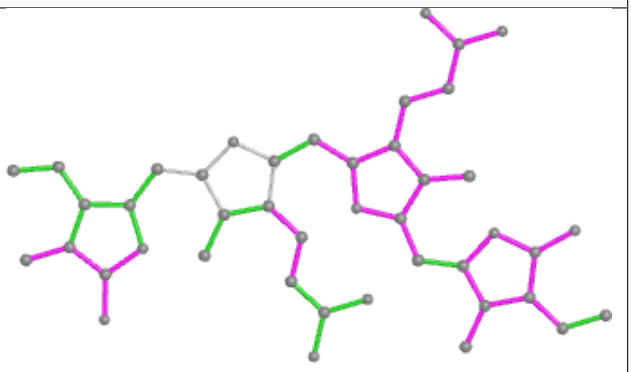
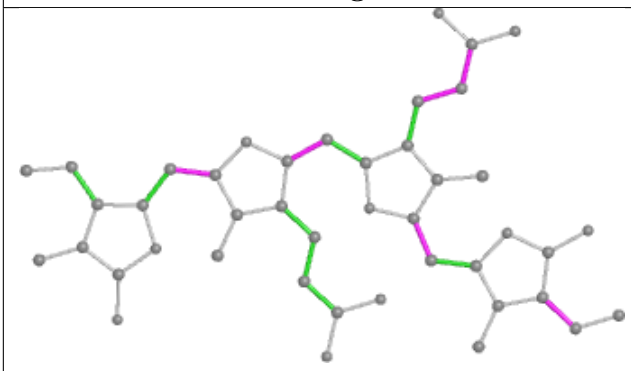


Bond angles



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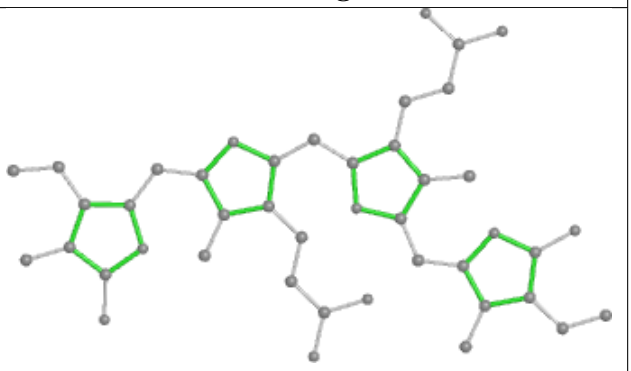
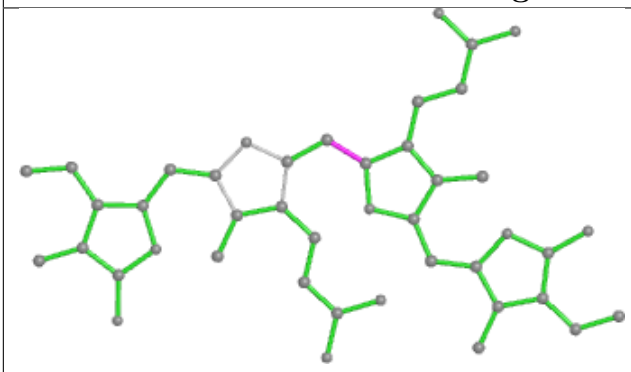


Rings

Ligand CYC G2 201



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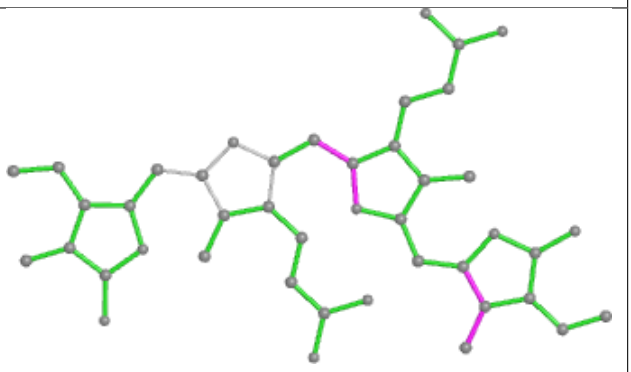
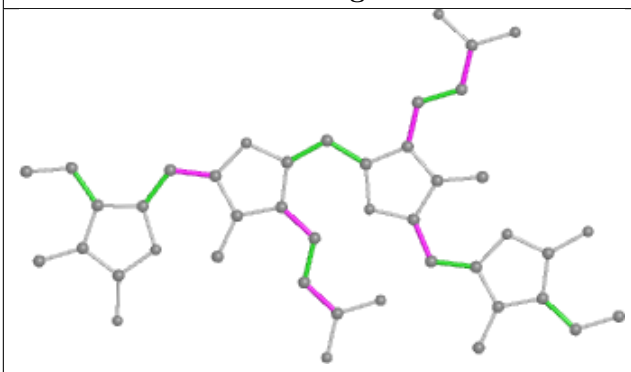


Bond angles



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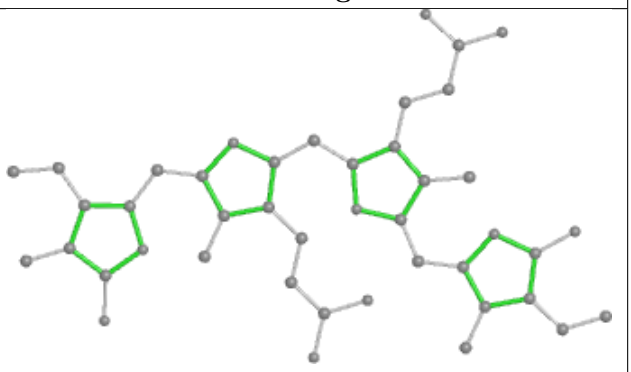
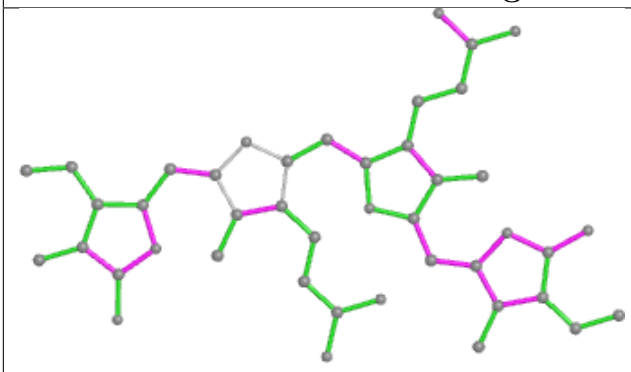


Rings

Ligand CYC D1 1001



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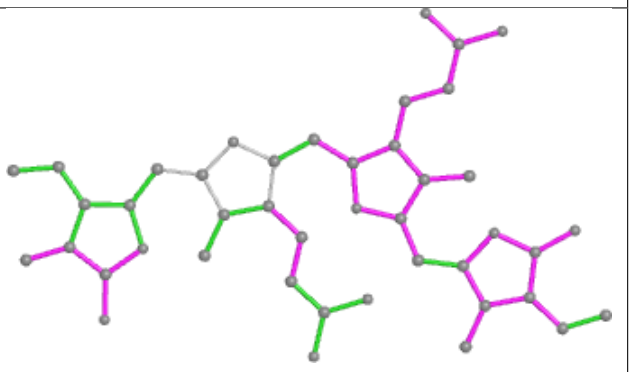

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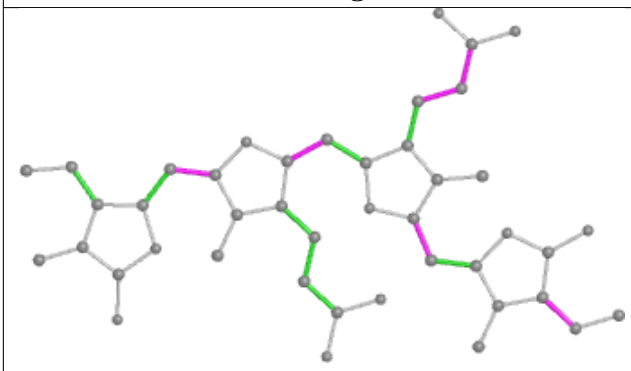

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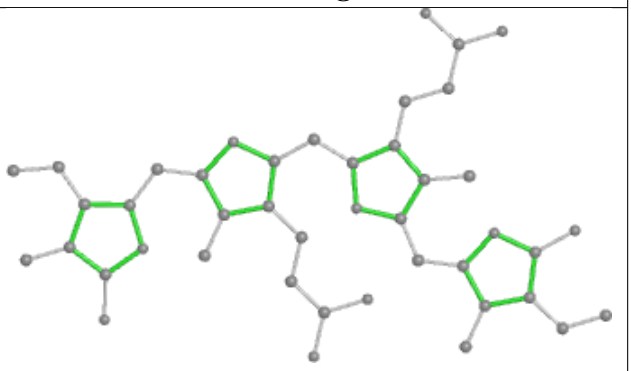
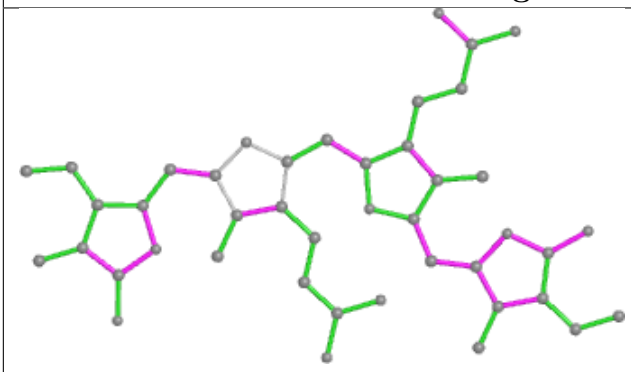


Rings

Ligand CYC Q2 201



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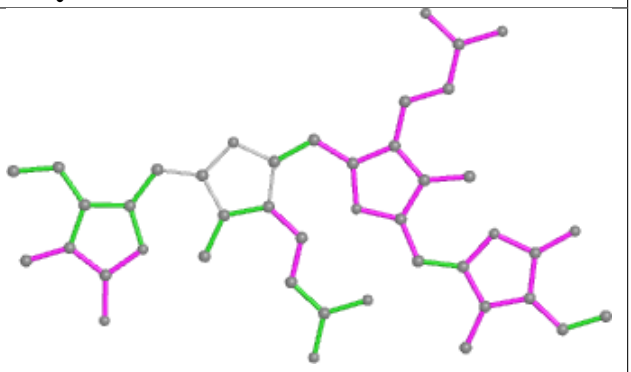

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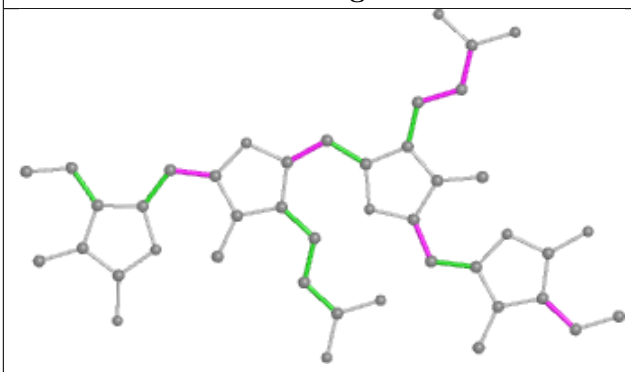

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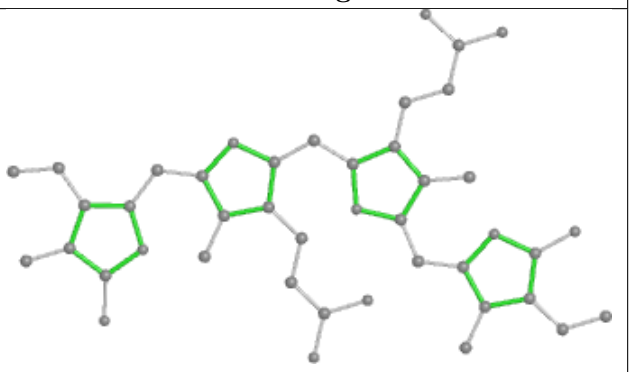
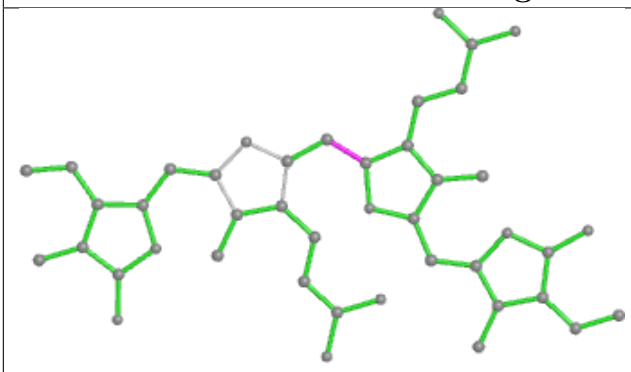


Rings

Ligand CYC E5 201



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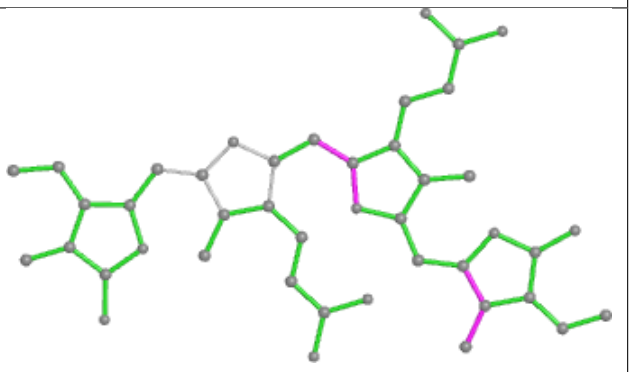

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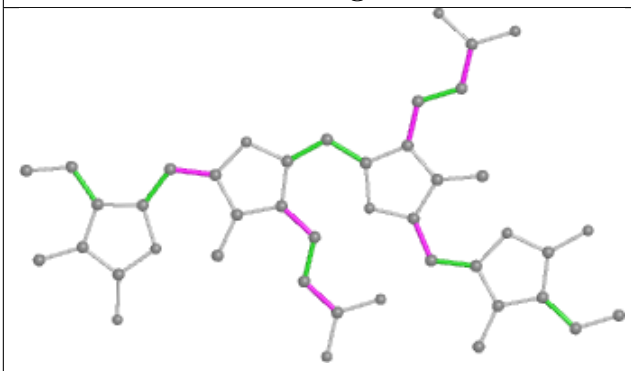

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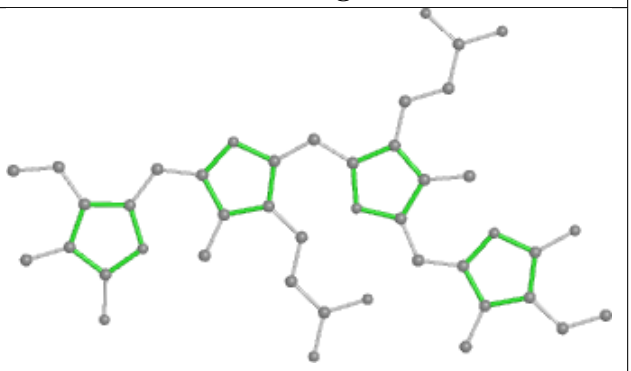
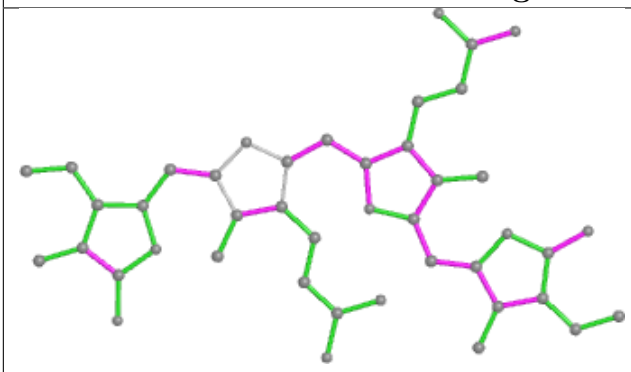


Rings

Ligand CYC A5 303



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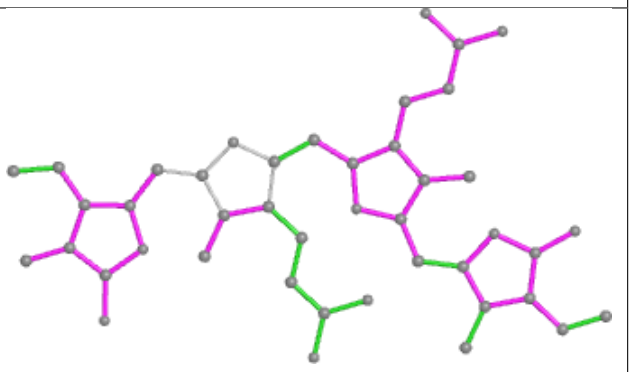

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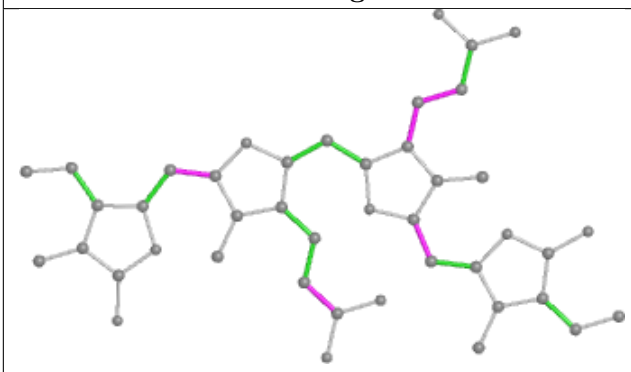

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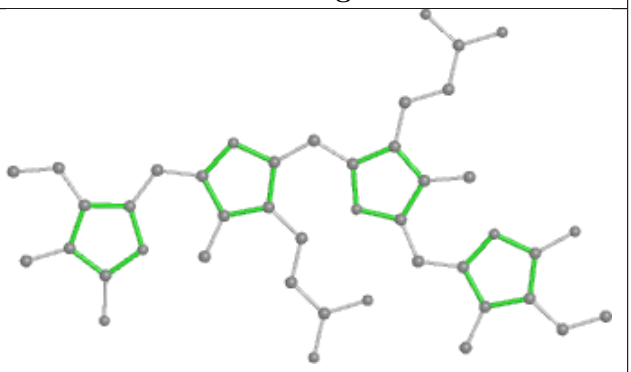
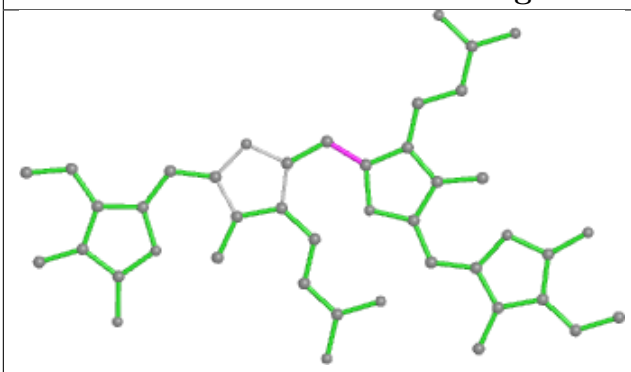


Rings

Ligand CYC E6 202



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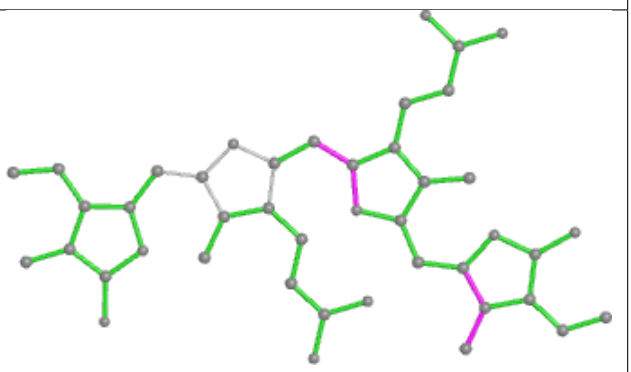
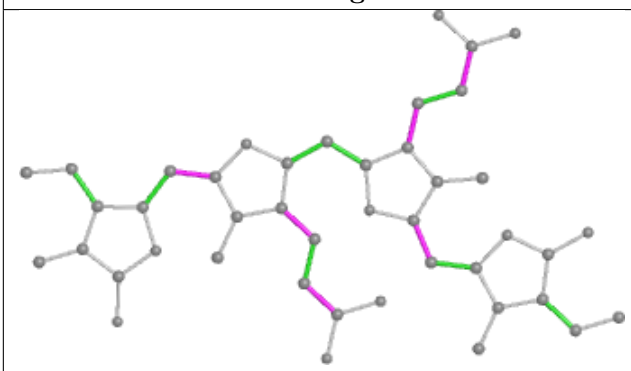


Bond angles



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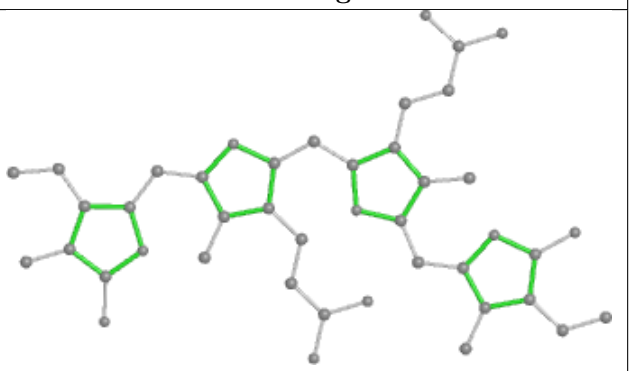
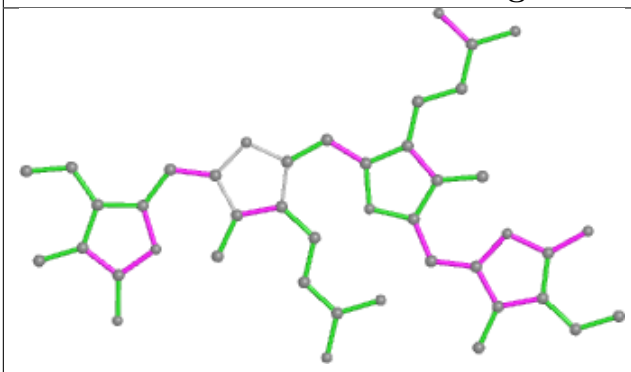


Rings

Ligand CYC J2 1001



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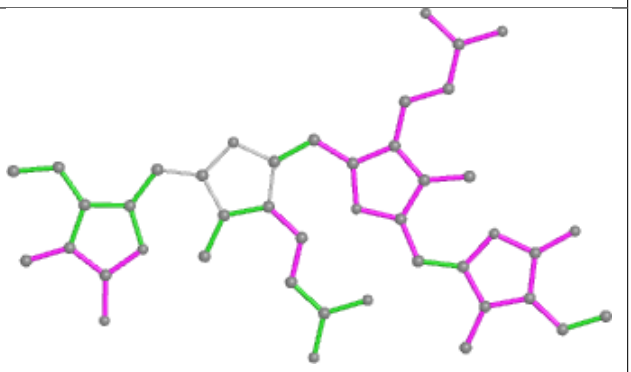
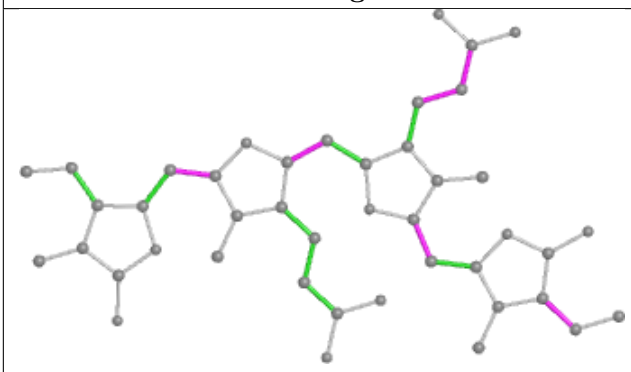


Bond angles



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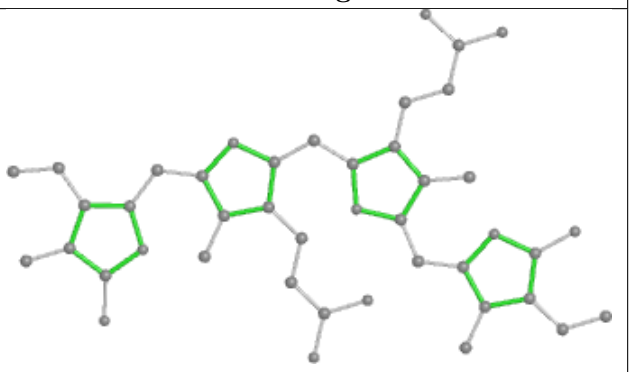
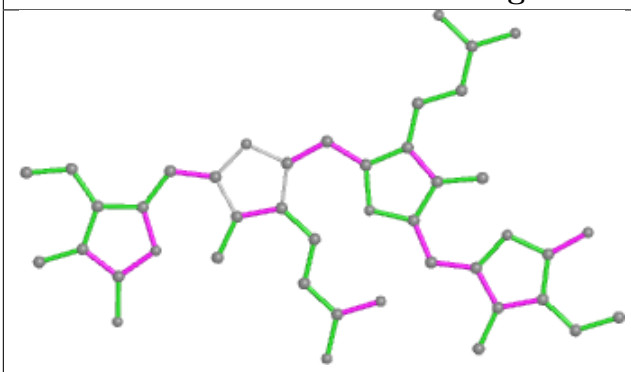


Rings

Ligand CYC q8 1001



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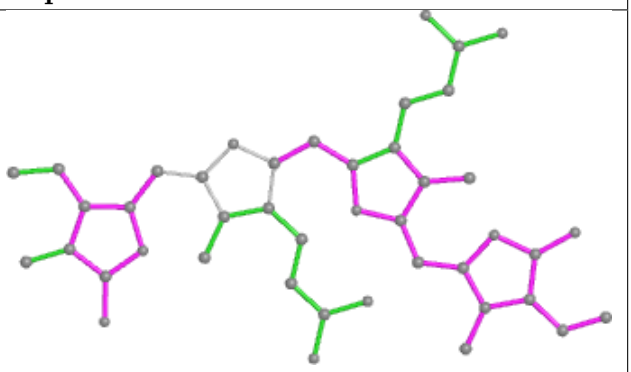

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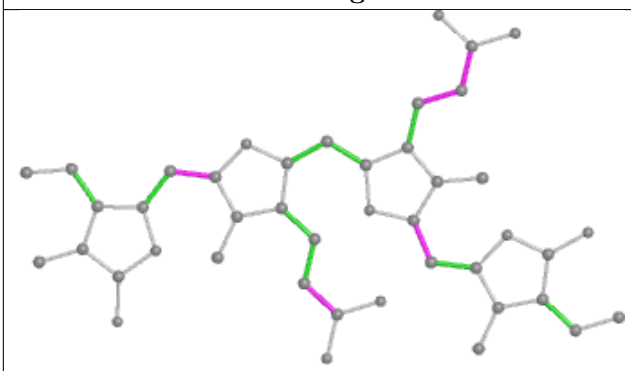

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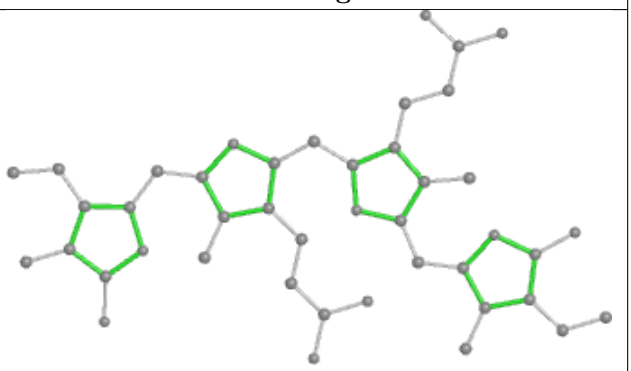
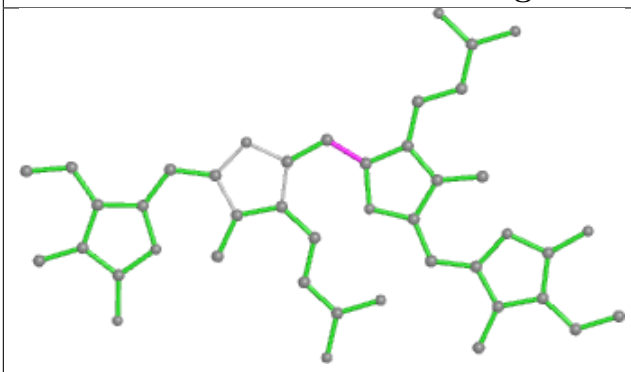


Rings

Ligand CYC E2 202



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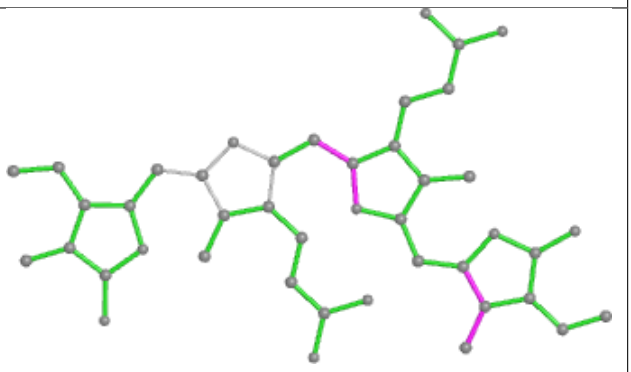
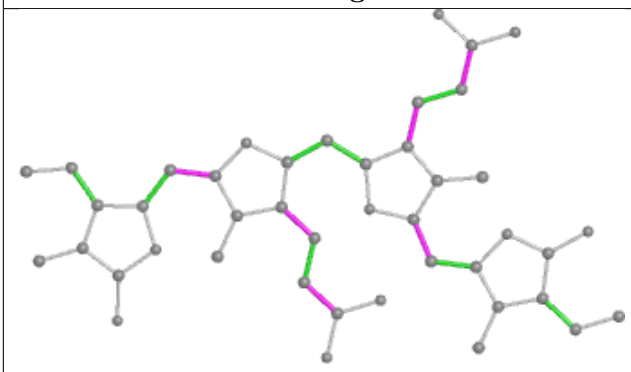


Bond angles



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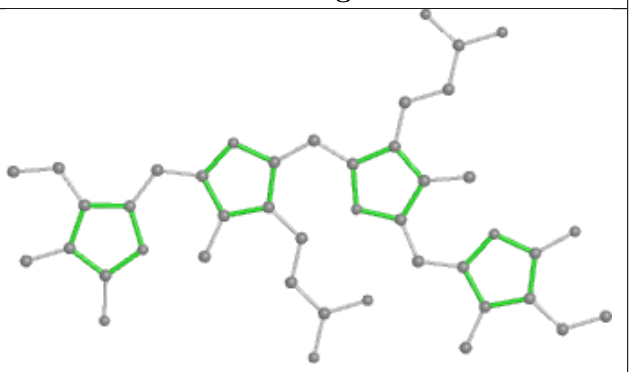
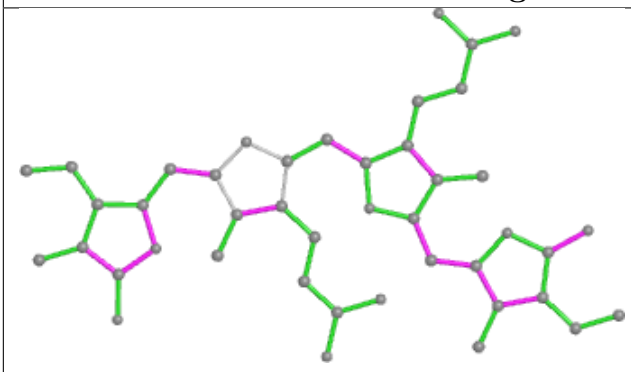


Rings

Ligand CYC c9 1001



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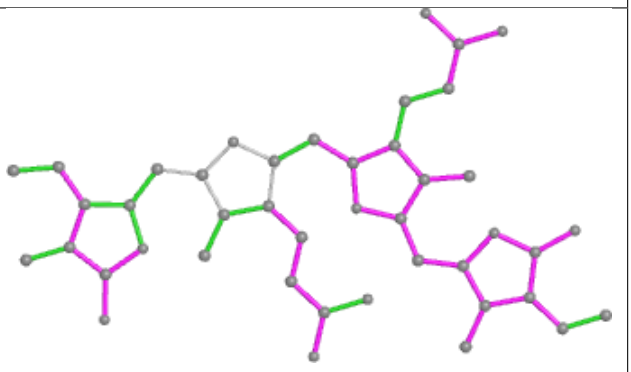
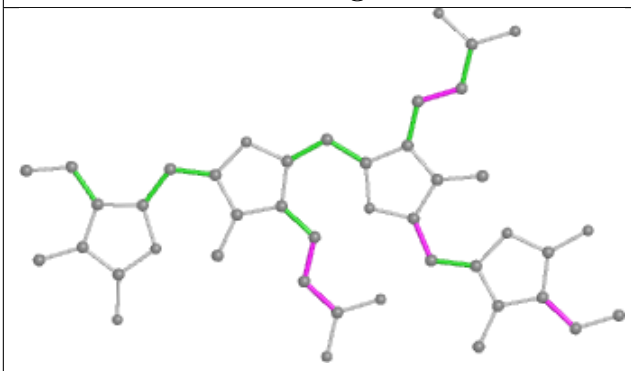


Bond angles



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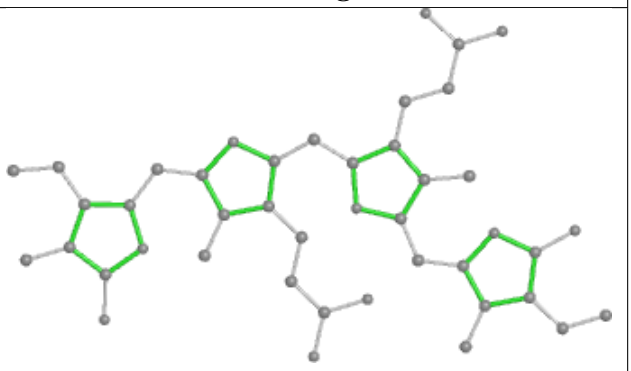
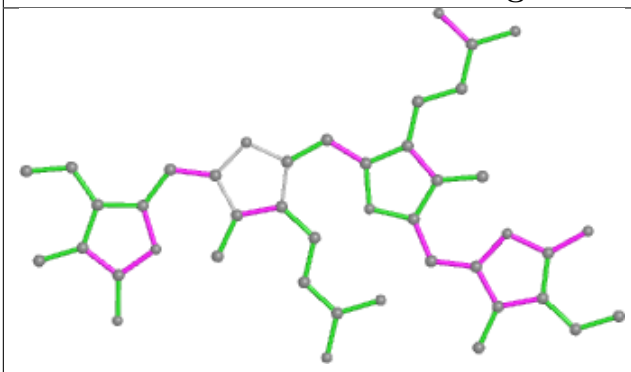


Rings

Ligand CYC S4 1001



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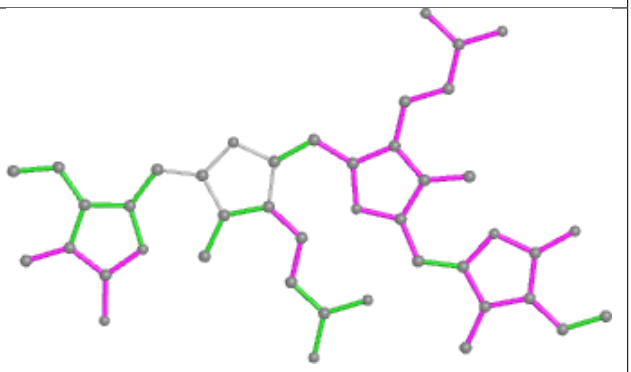
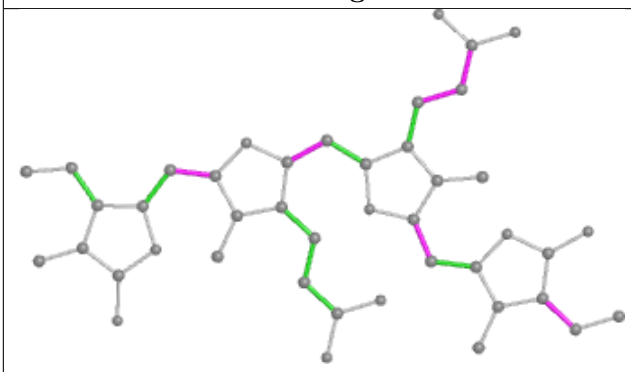
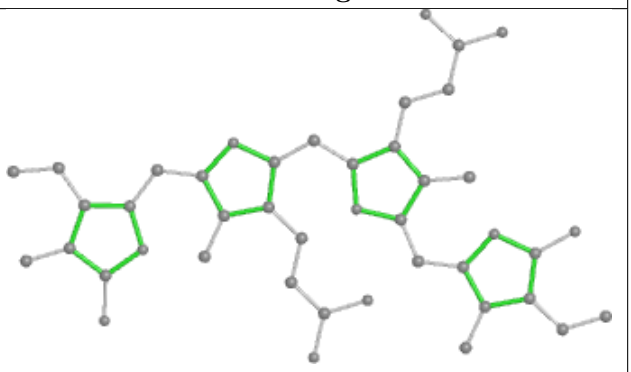


Bond angles

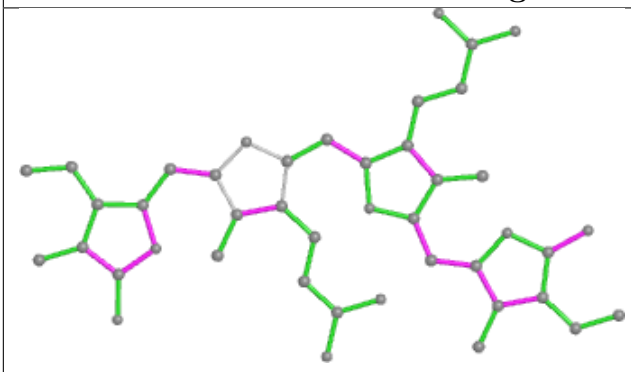


Torsions

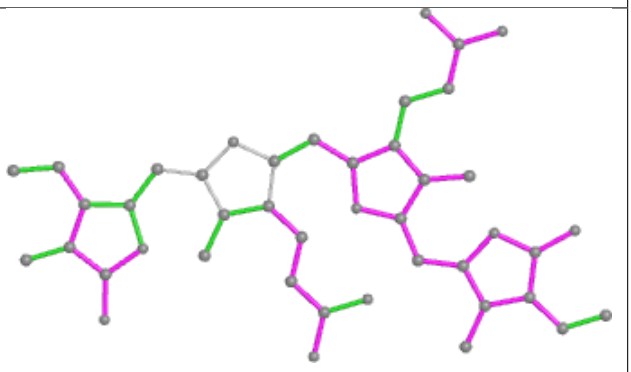


Rings

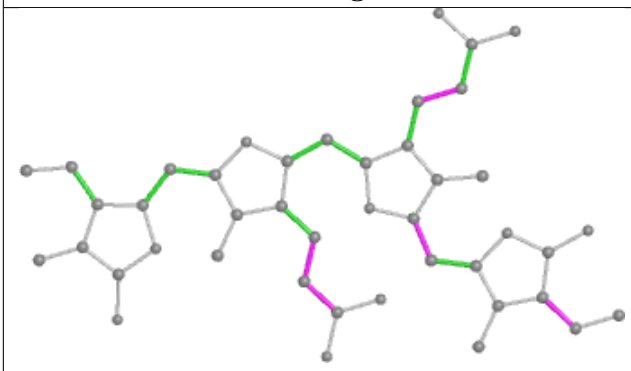
Ligand CYC z9 1001



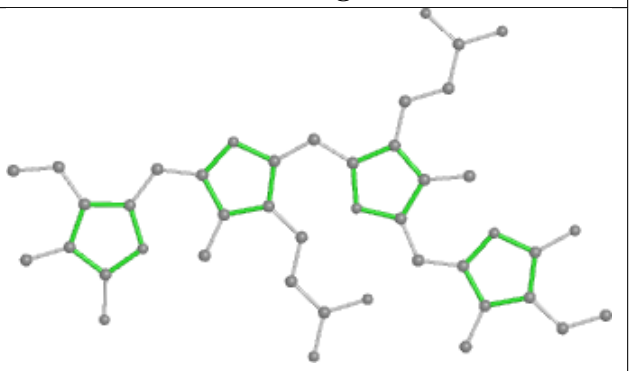
Bond lengths



Bond angles

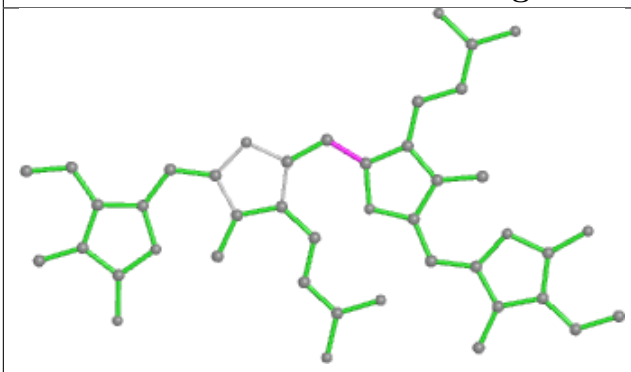


Torsions



Rings

Ligand CYC K5 201



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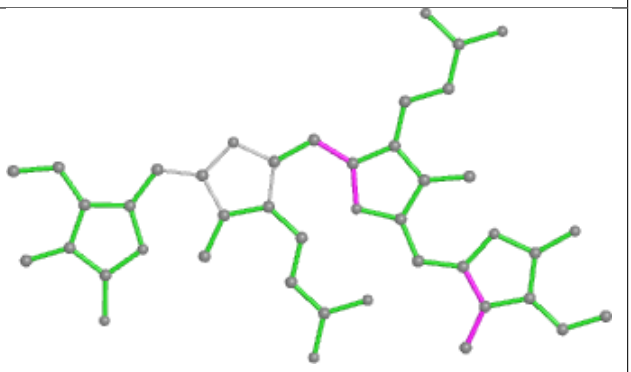

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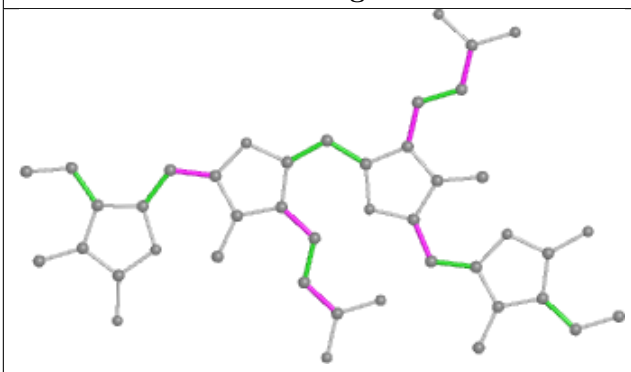

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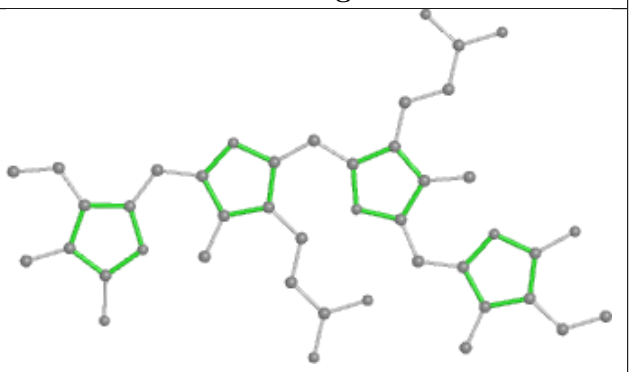
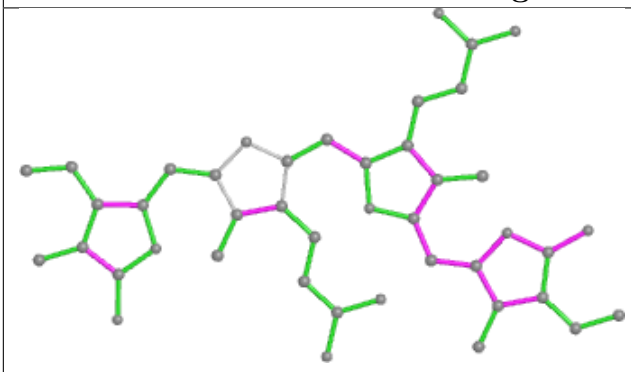


Rings

Ligand CYC f9 1001



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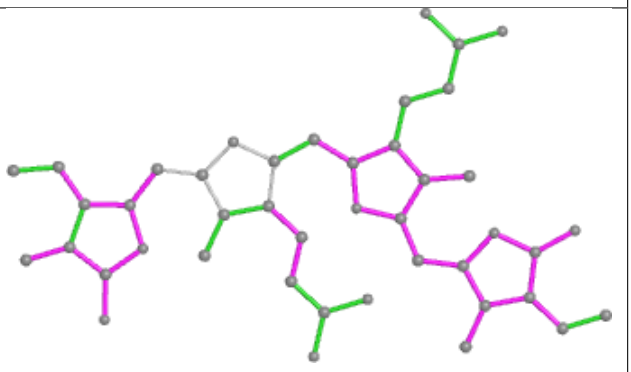

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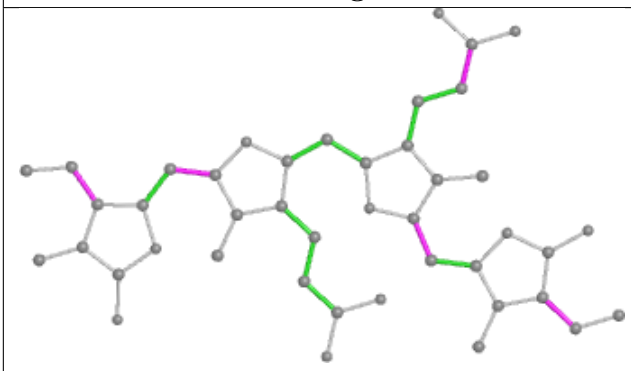

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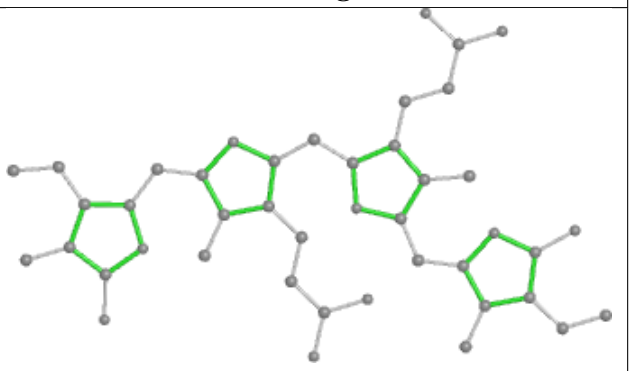
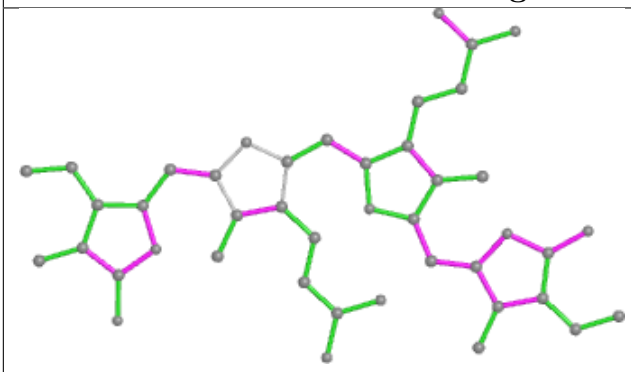


Rings

Ligand CYC YA 201



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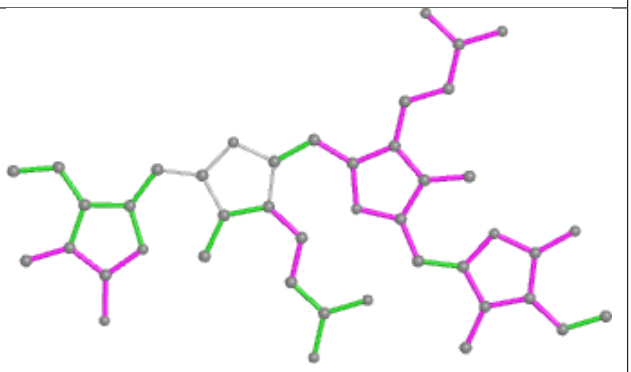

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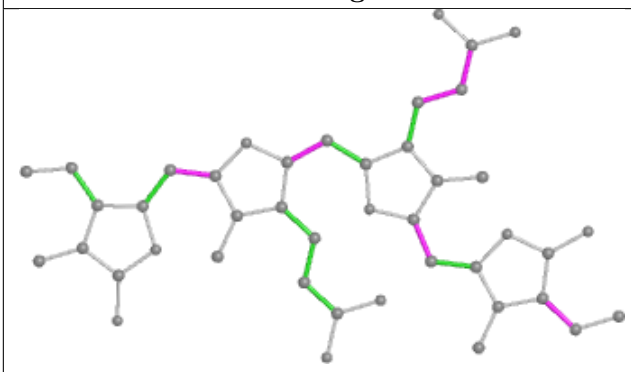

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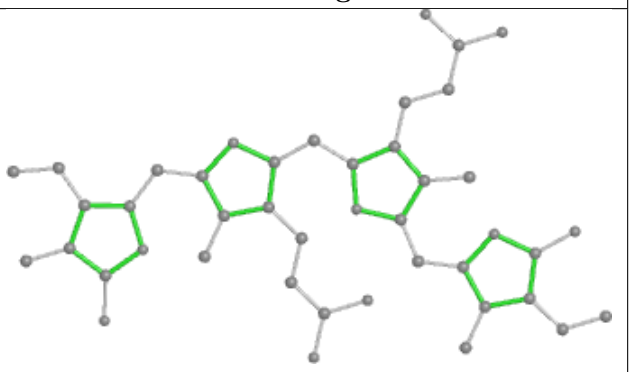
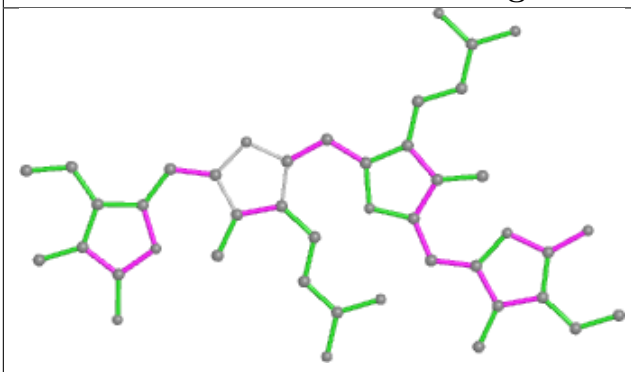


Rings

Ligand CYC AA 302



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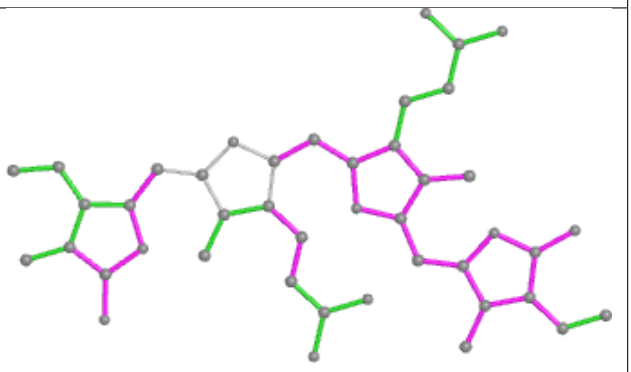

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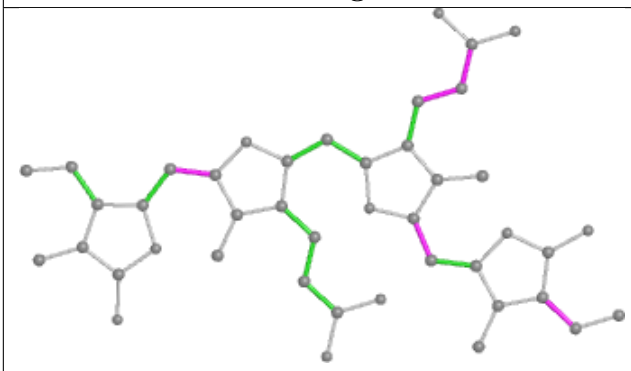

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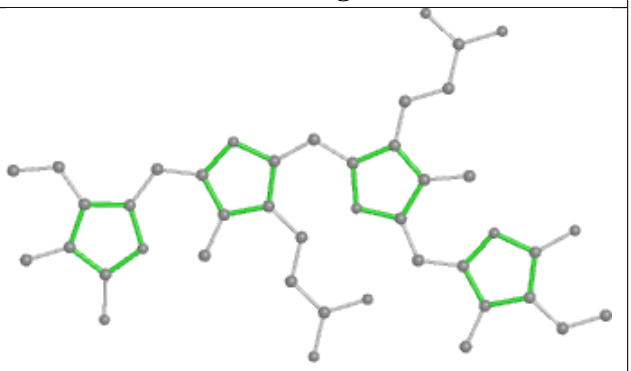
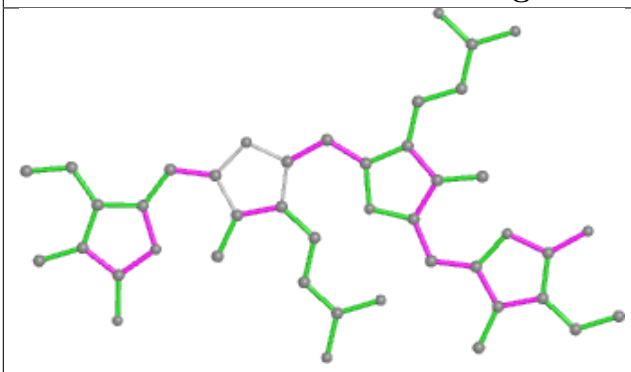


Rings

Ligand CYC A5 301



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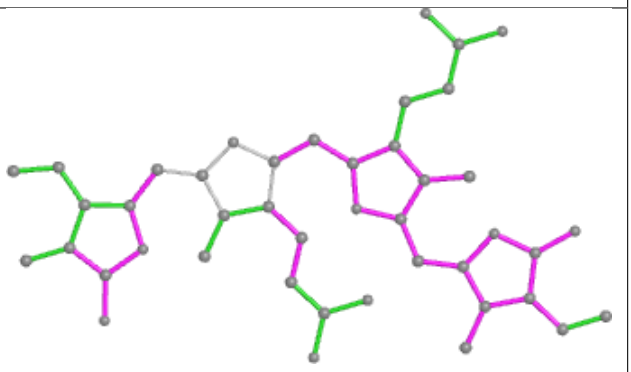
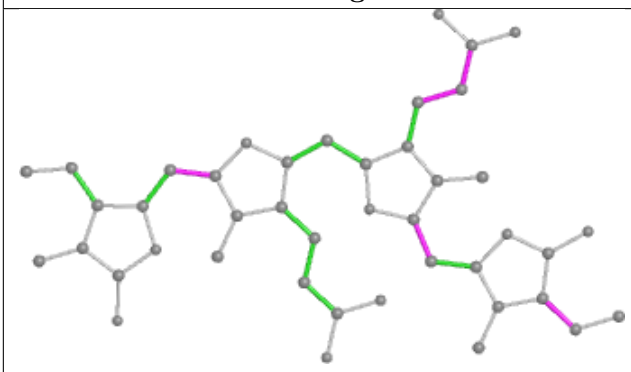


Bond angles



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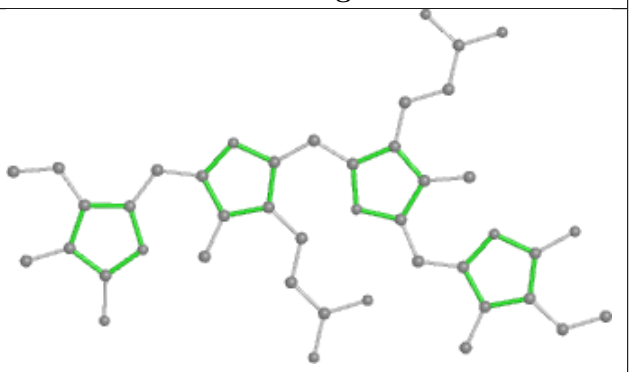
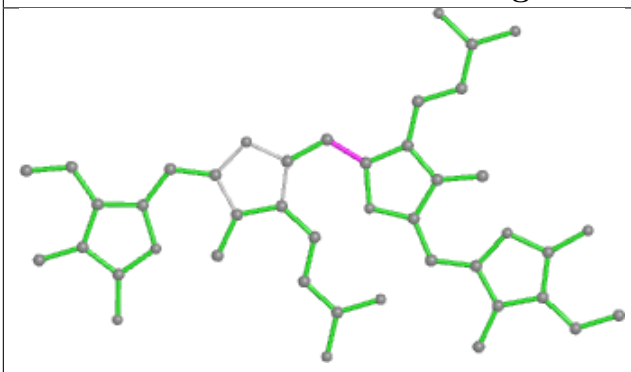


Rings

Ligand CYC K7 202



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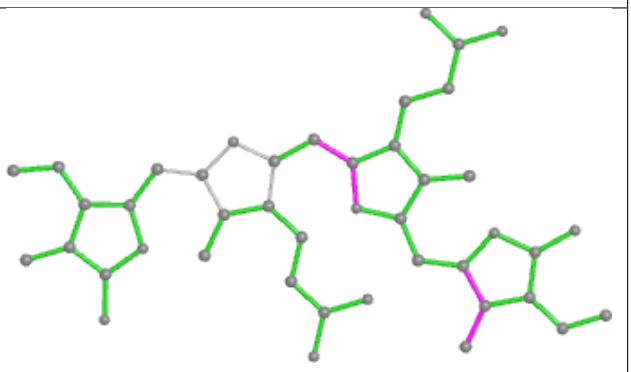
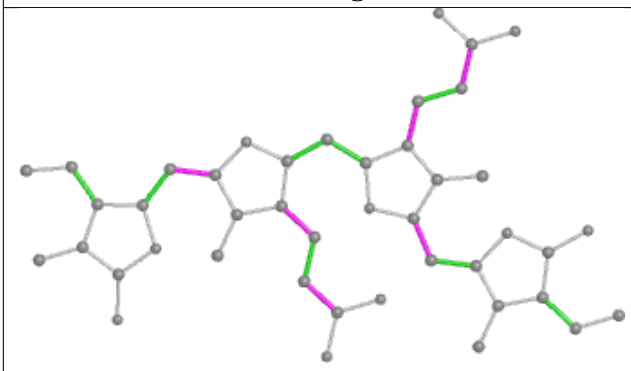


Bond angles



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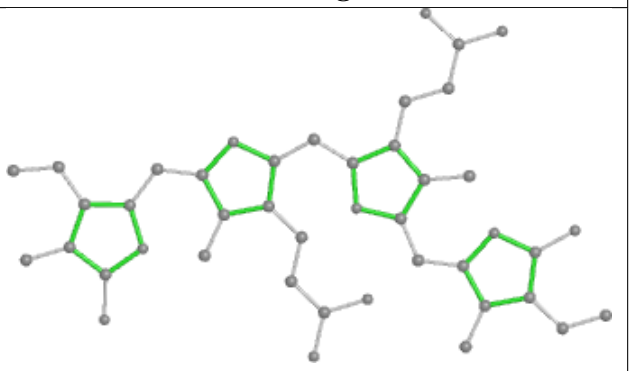
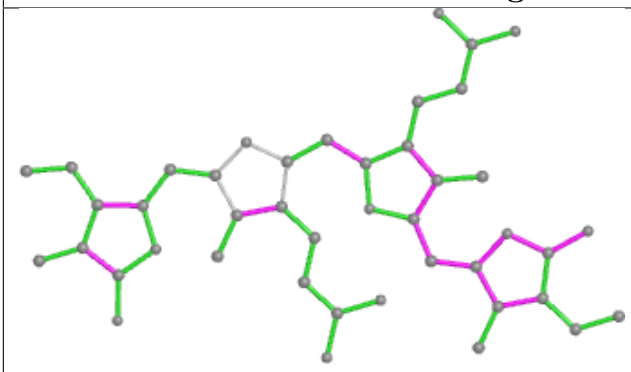


Rings

Ligand CYC d9 1001



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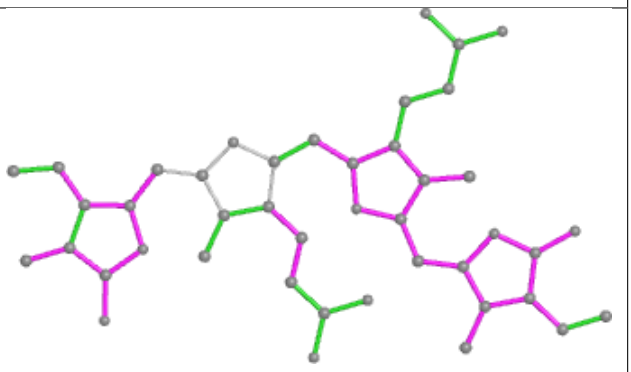

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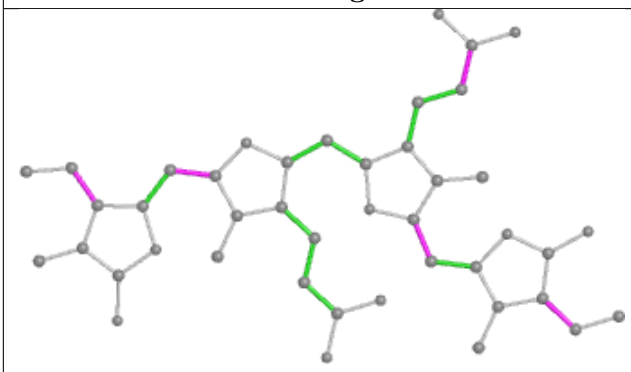

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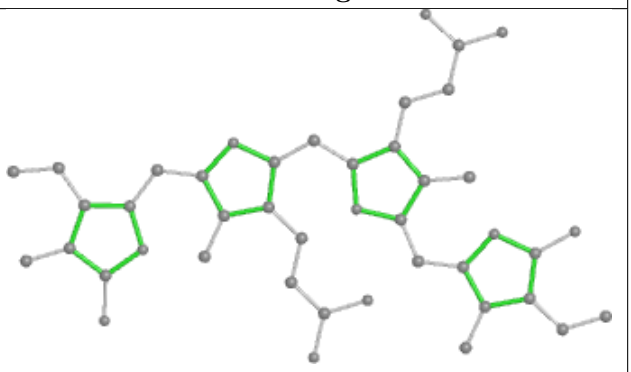
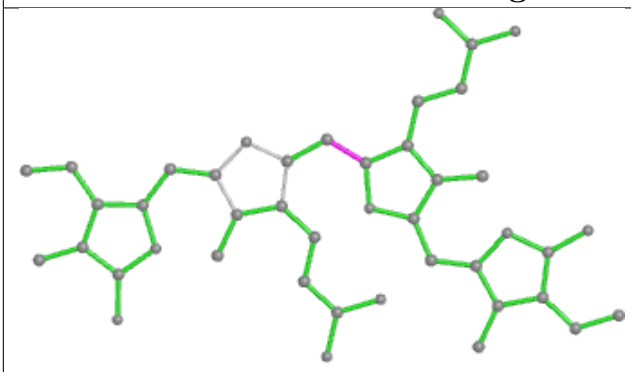


Rings

Ligand CYC M1 202



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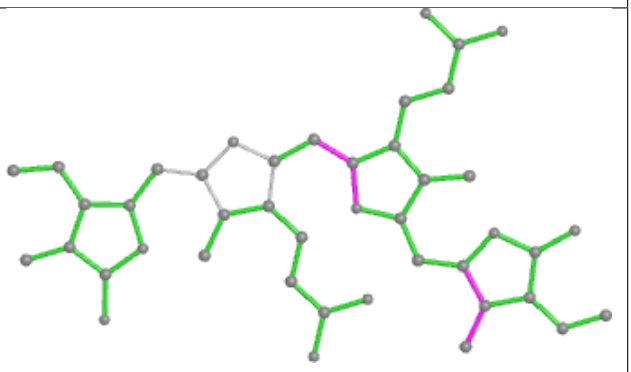
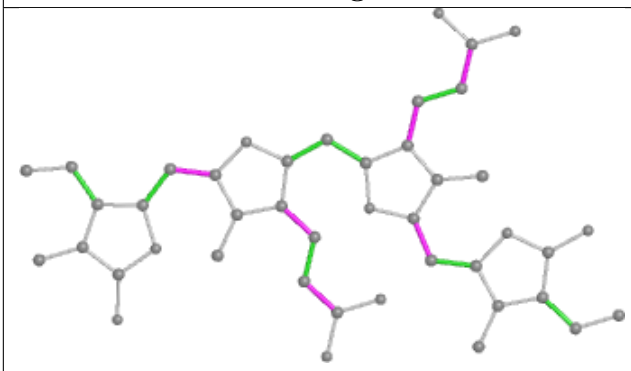
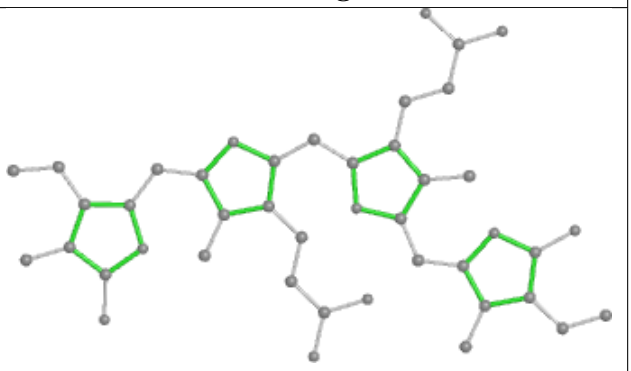


Bond angles

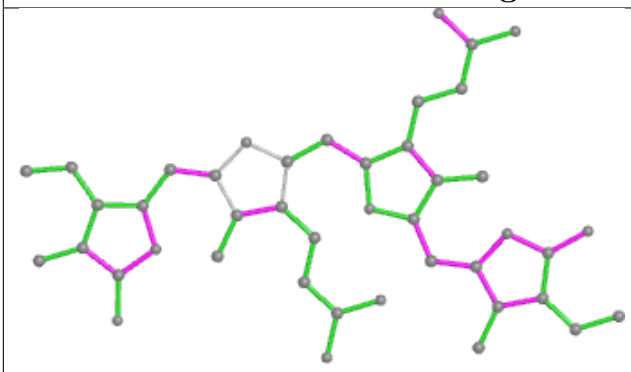


Torsions



Rings

Ligand CYC OA 1001



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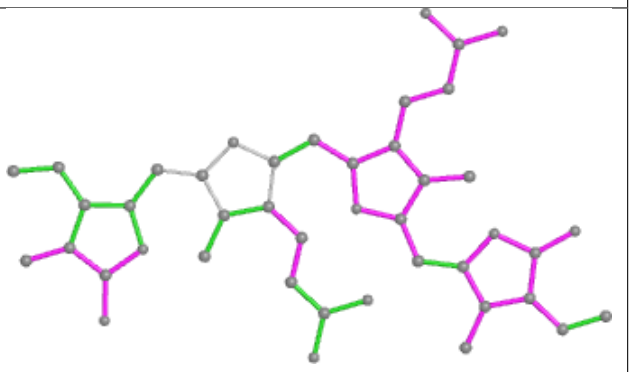

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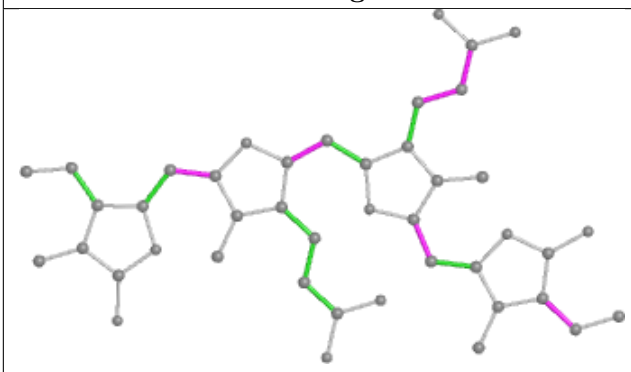

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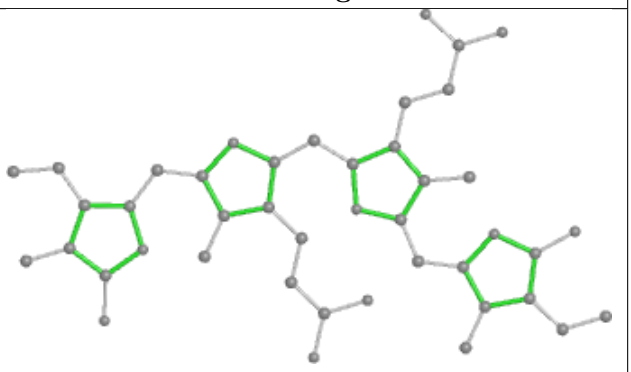
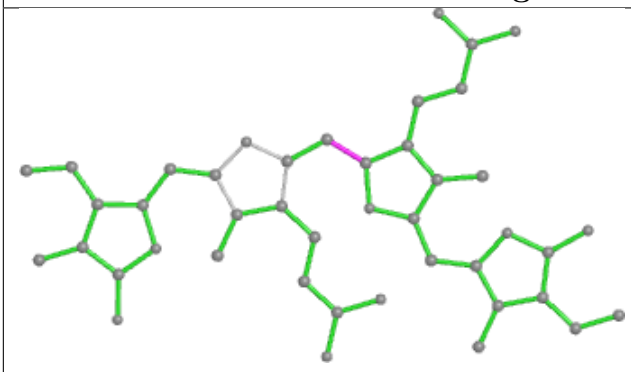


Rings

Ligand CYC X1 202



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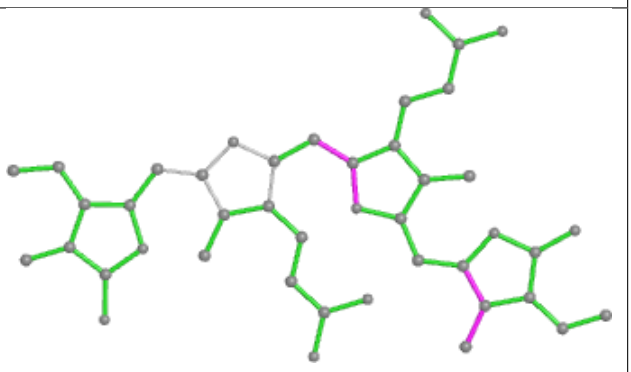
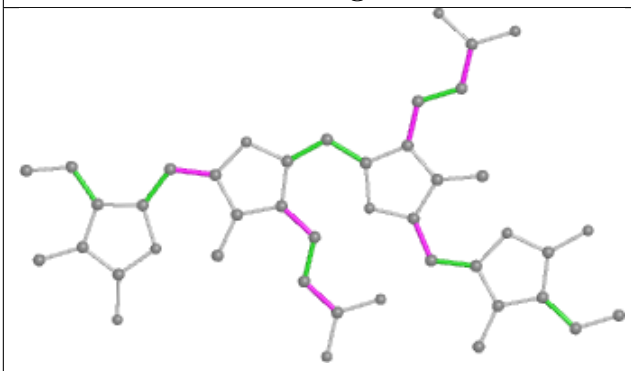


Bond angles



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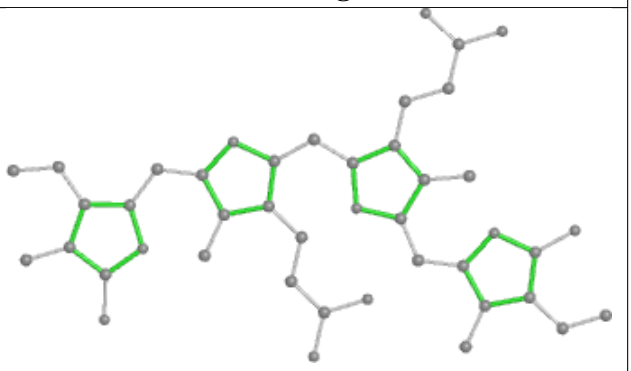
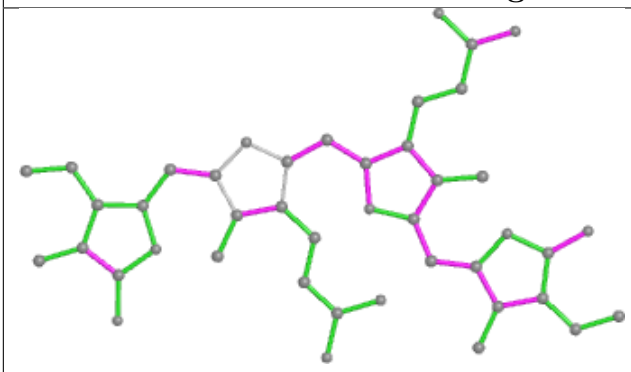


Rings

Ligand CYC NA 301



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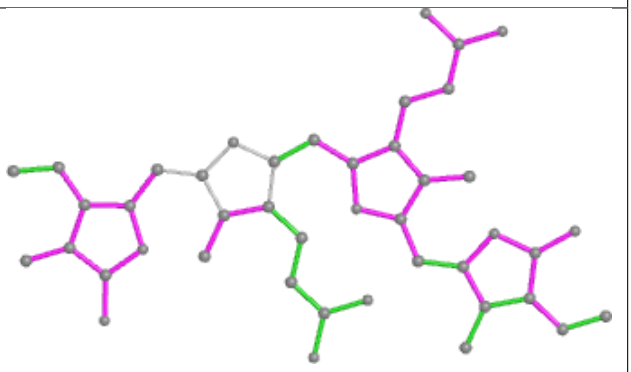
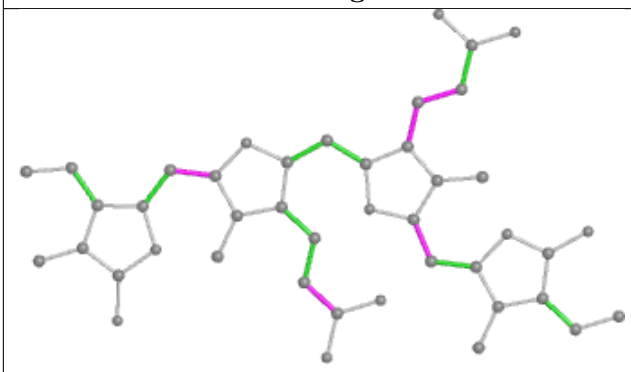


Bond angles



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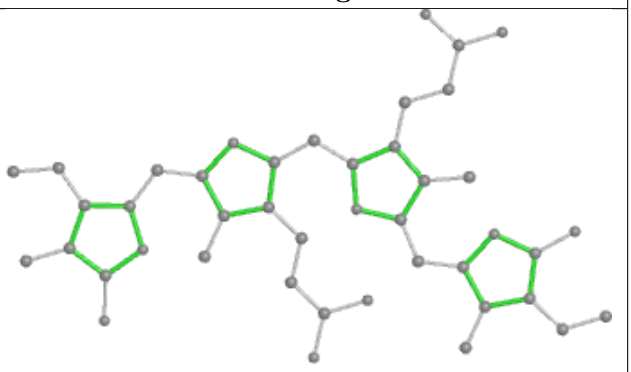

Rings

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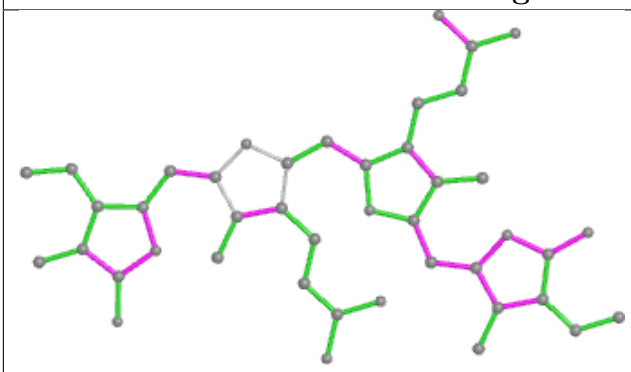

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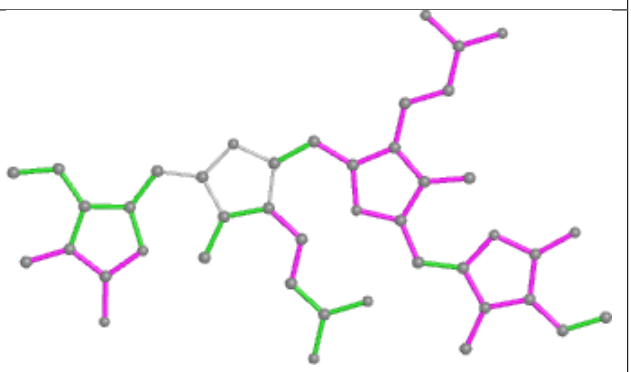
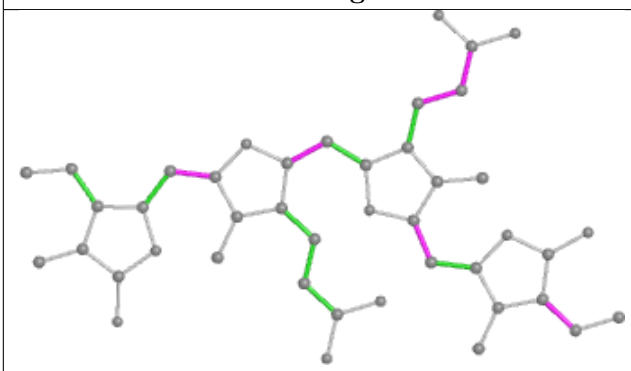
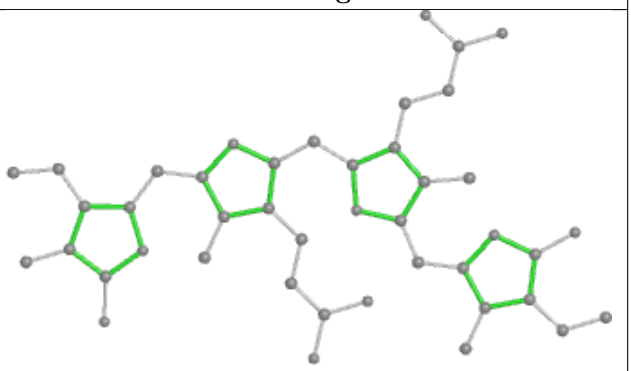


Bond angles

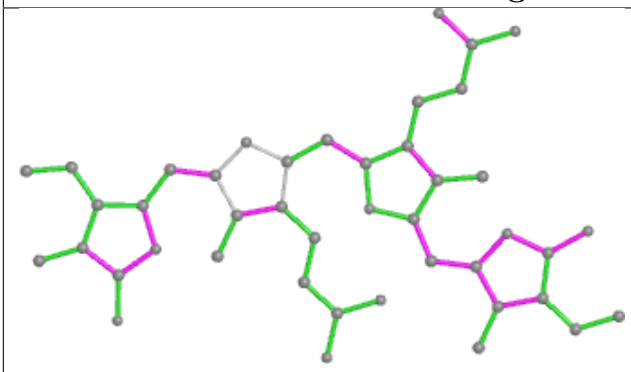


Torsions



Rings

Ligand CYC J7 1001



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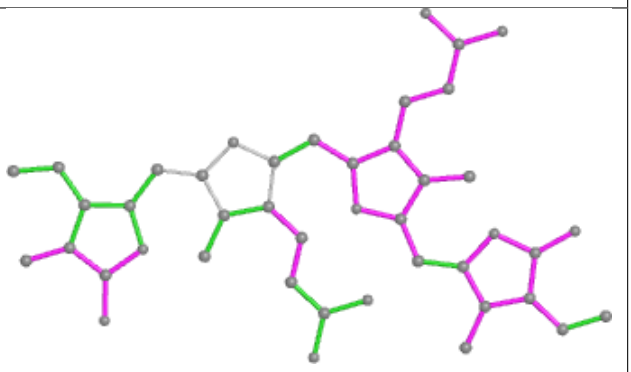
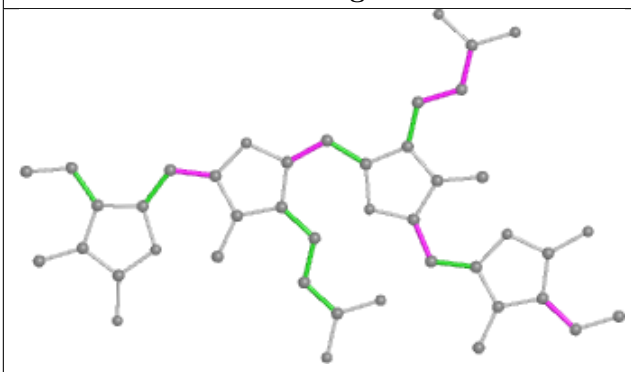
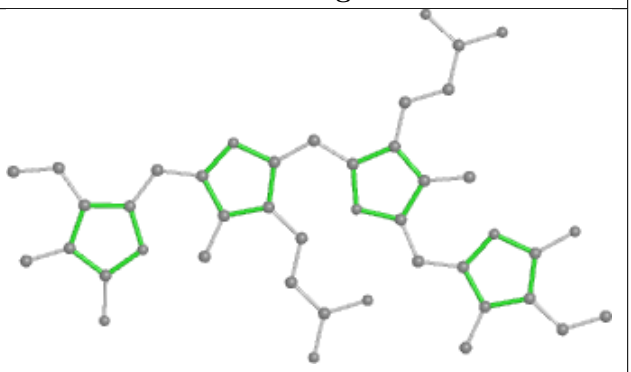


Bond angles

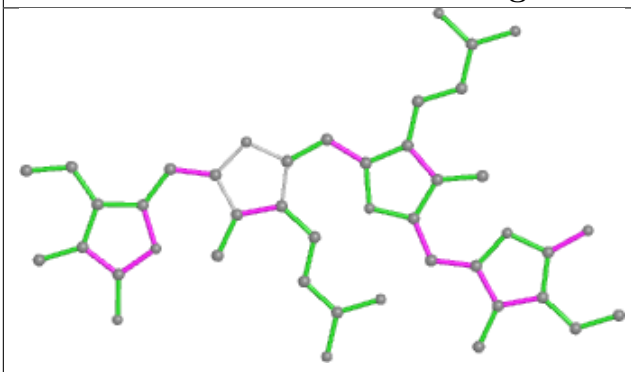


Torsions

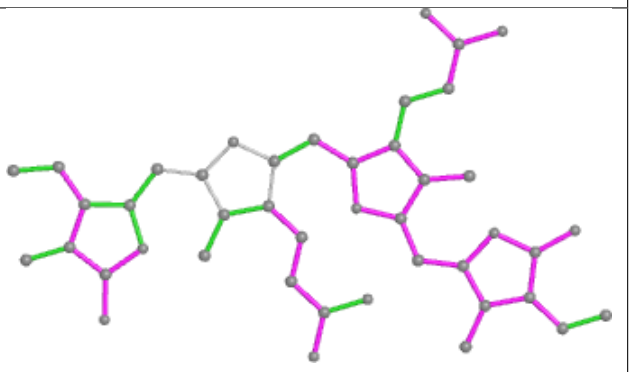


Rings

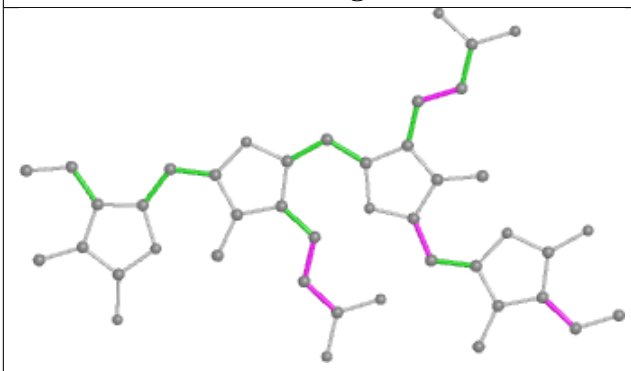
Ligand CYC e9 1001



Bond lengths



Bond angles



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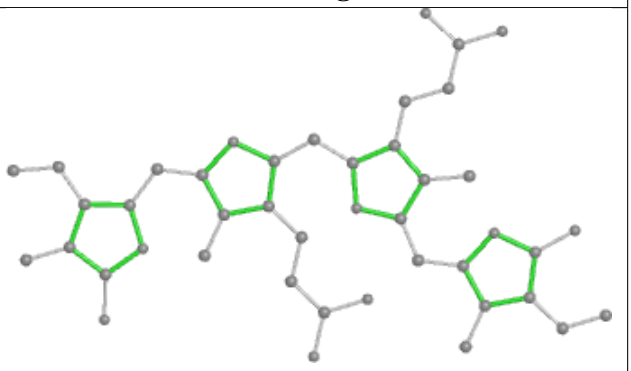
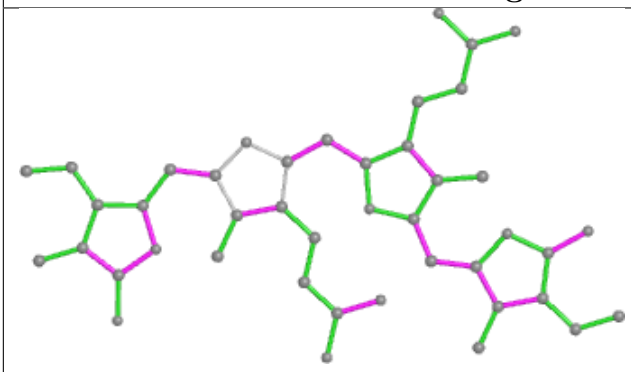


Rings

Ligand CYC F8 1001



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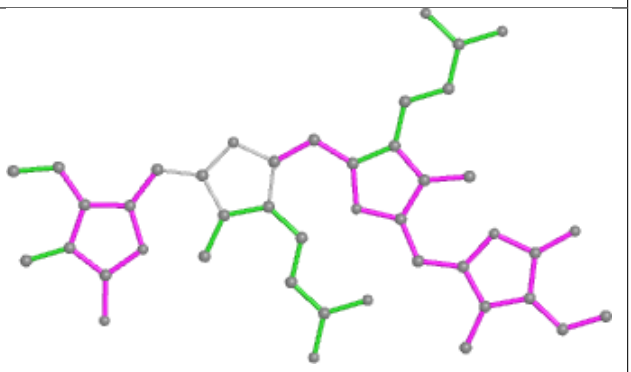
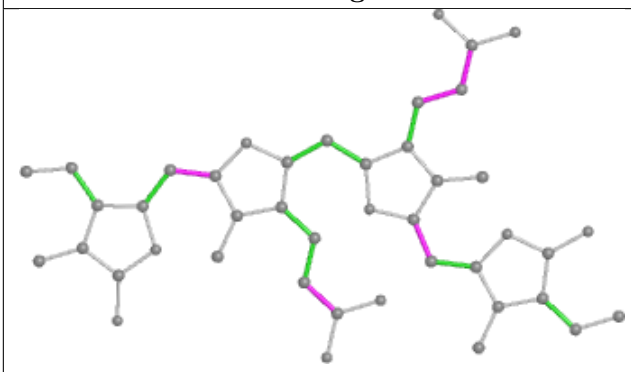


Bond angles



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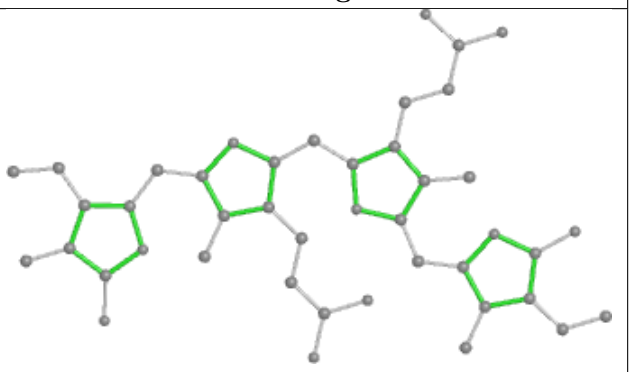
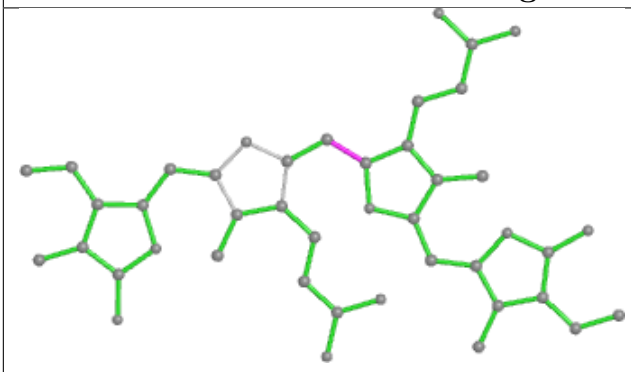


Rings

Ligand CYC I5 202



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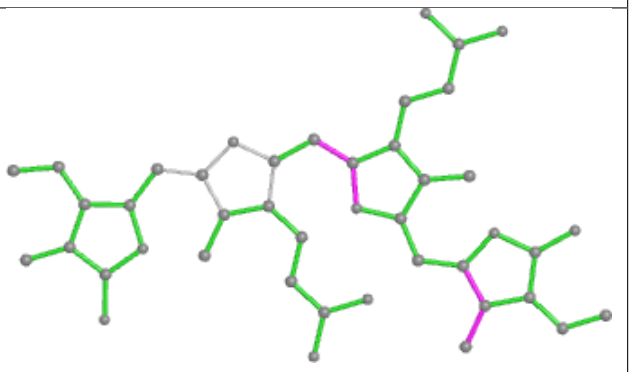
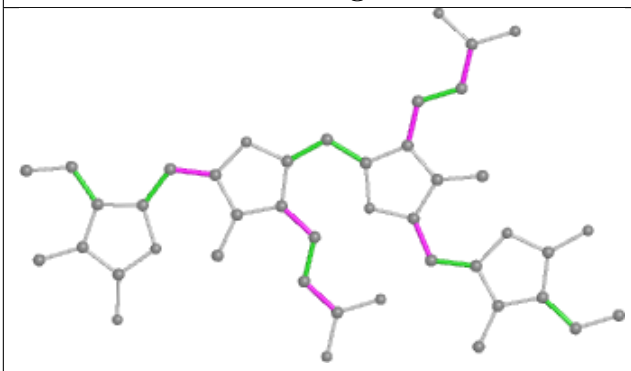


Bond angles



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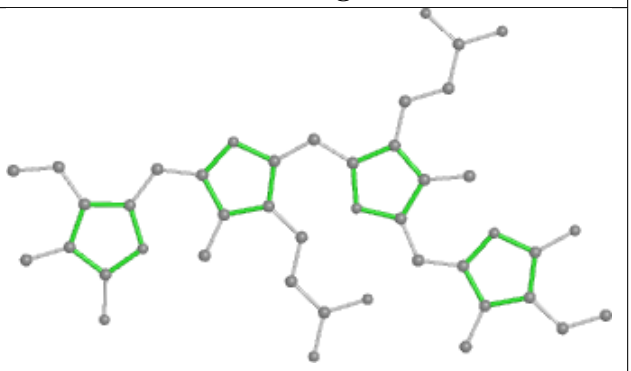
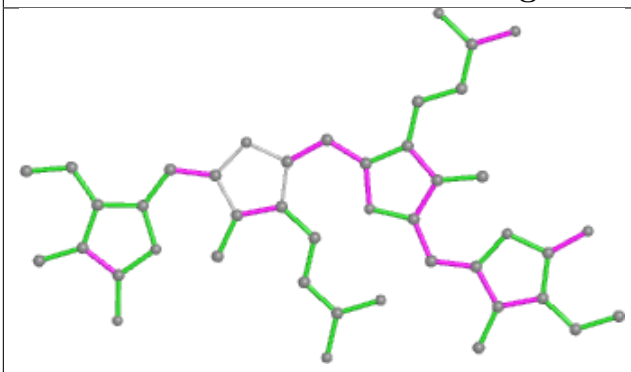


Rings

Ligand CYC I1 201



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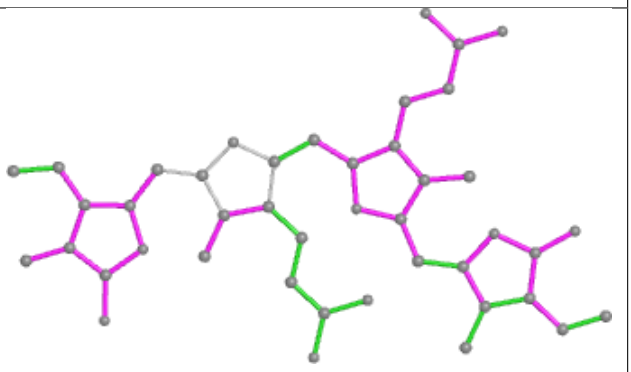
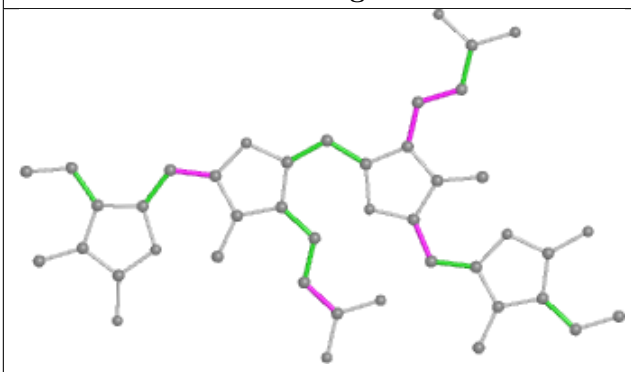


Bond angles



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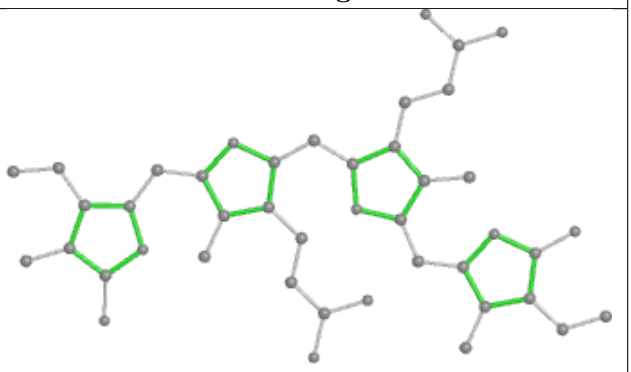
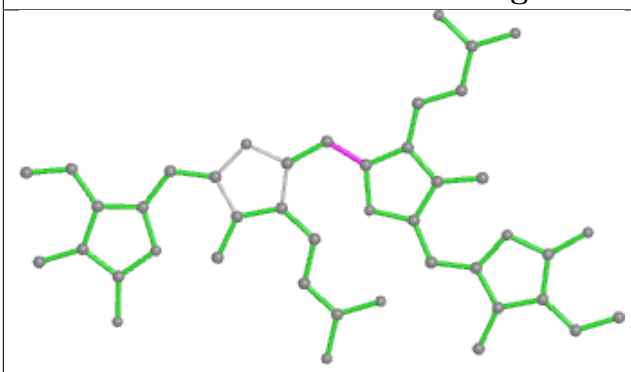


Rings

Ligand CYC PA 202



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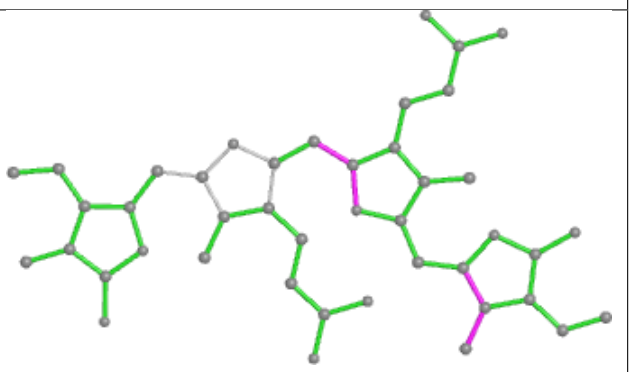
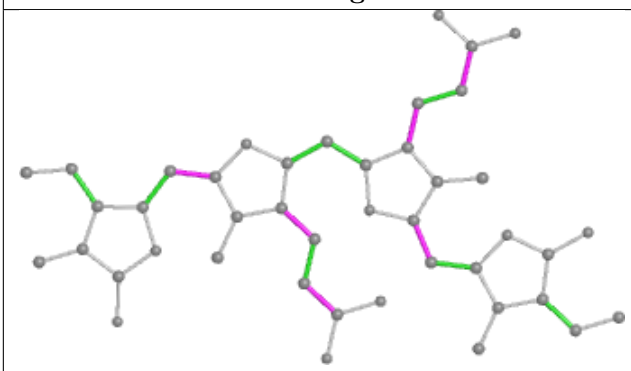


Bond angles



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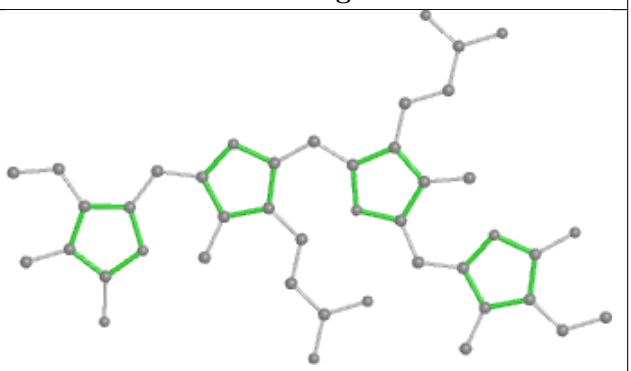
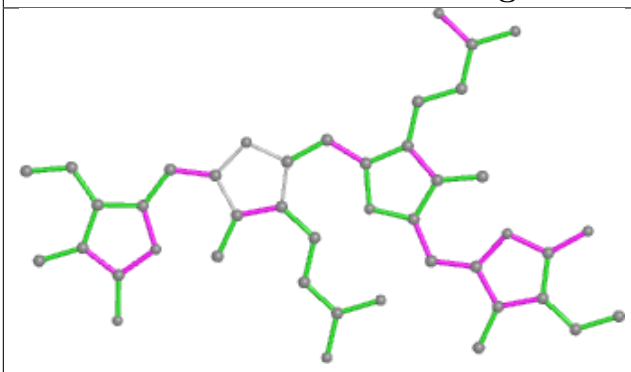


Rings

Ligand CYC W4 1001



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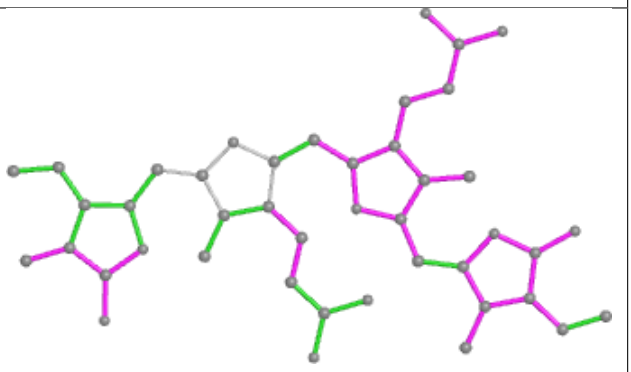
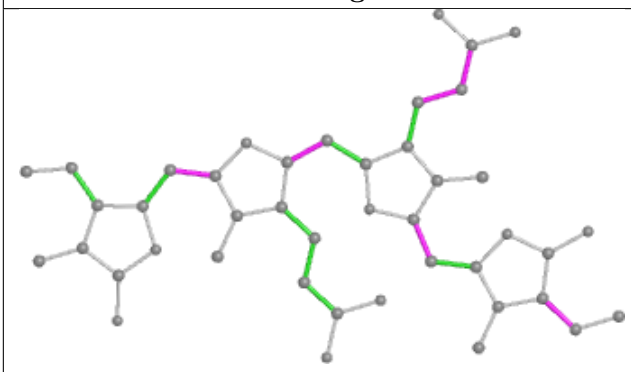


Bond angles



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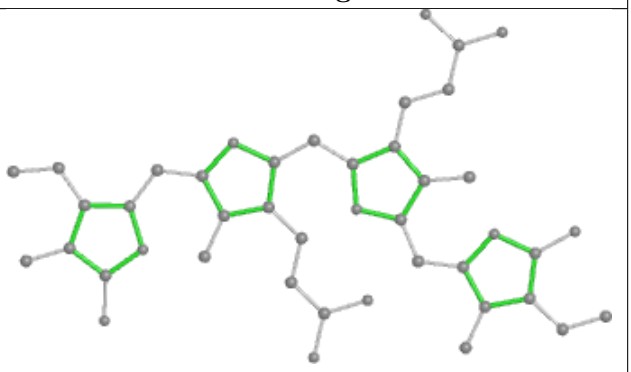
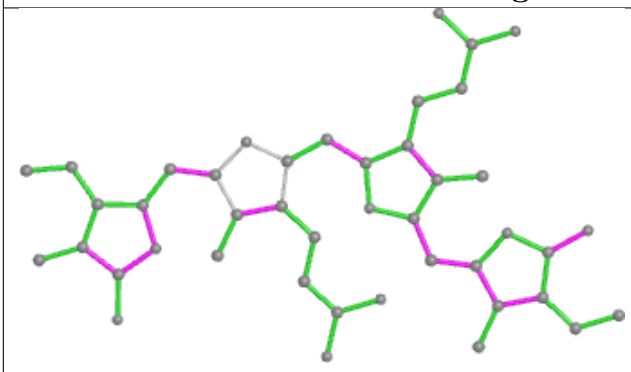


Rings

Ligand CYC j9 1001



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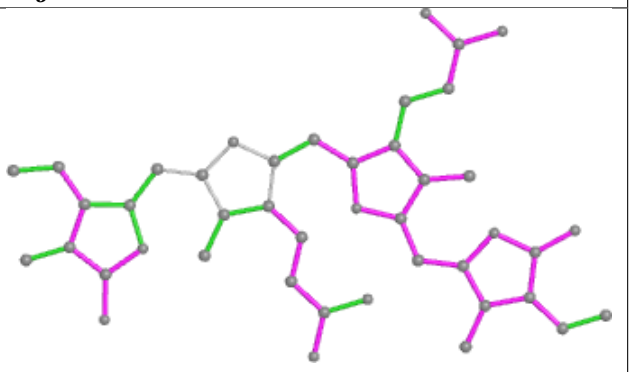
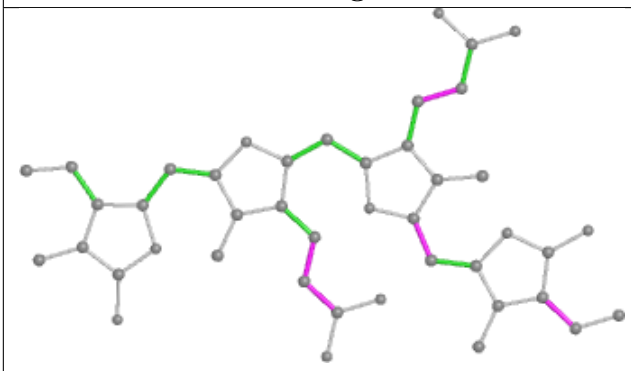


Bond angles



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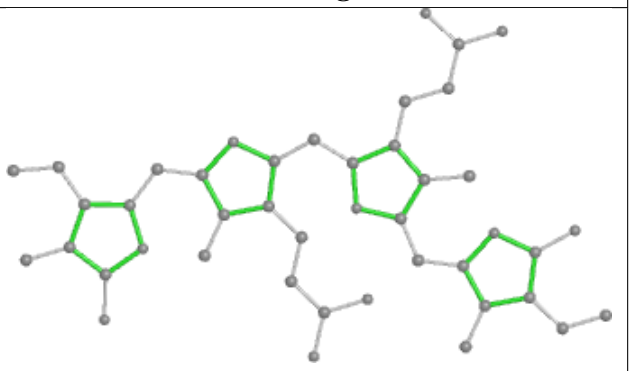
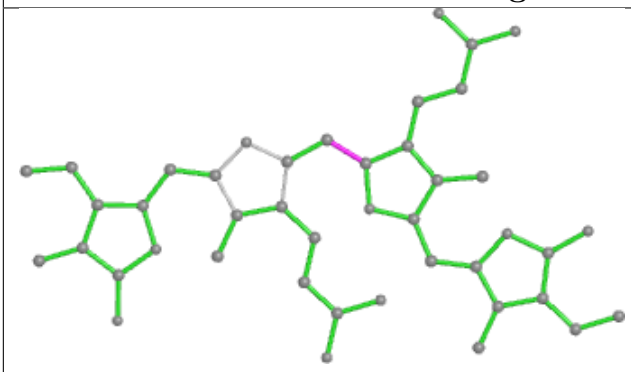


Rings

Ligand CYC M7 201



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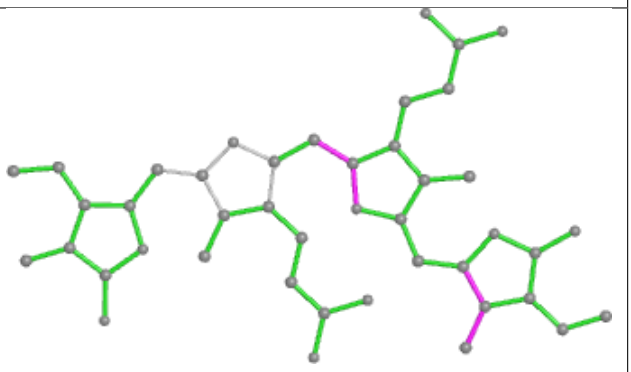

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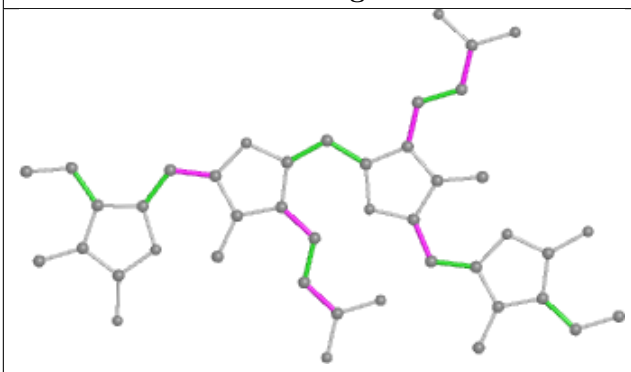
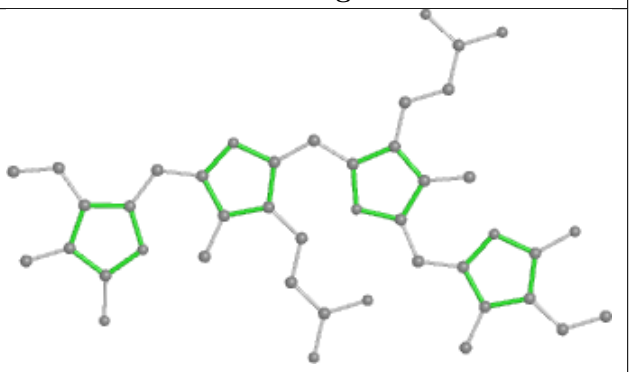
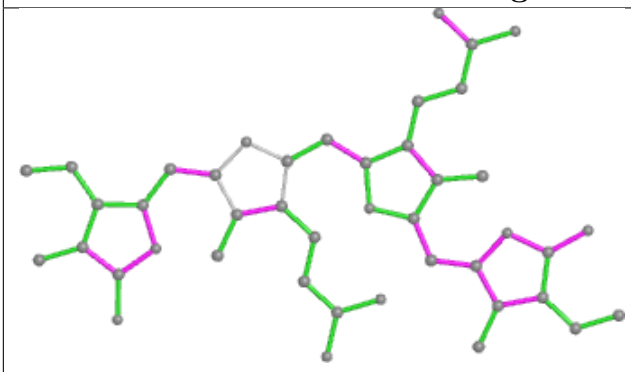


Torsions



Rings

Ligand CYC PA 203



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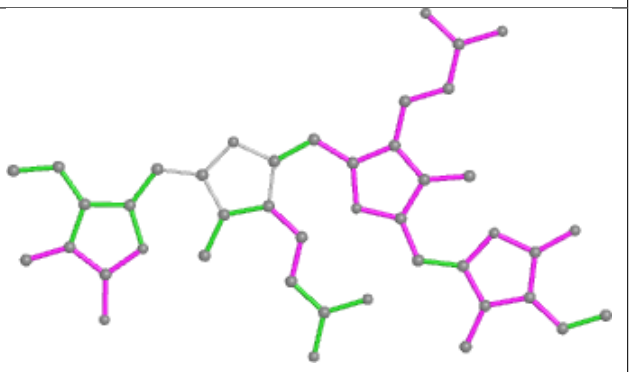
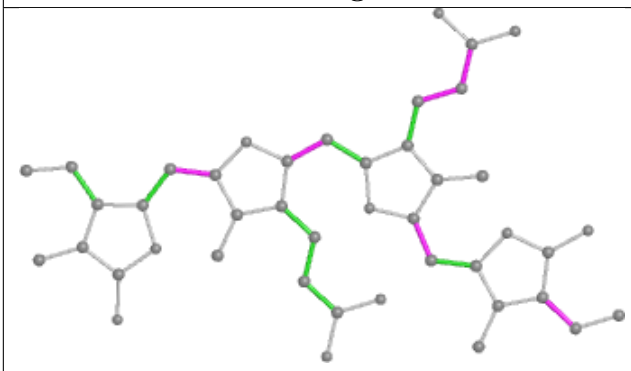


Bond angles



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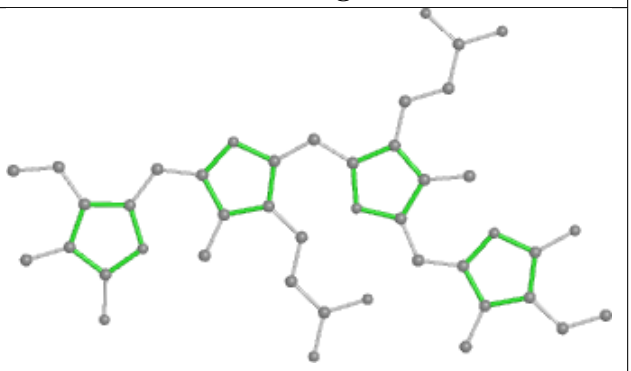
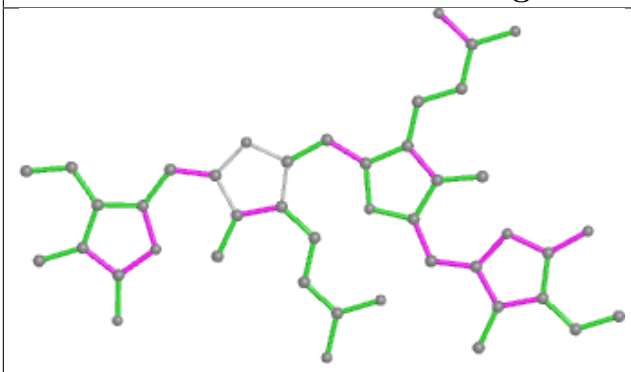


Rings

Ligand CYC Q1 201



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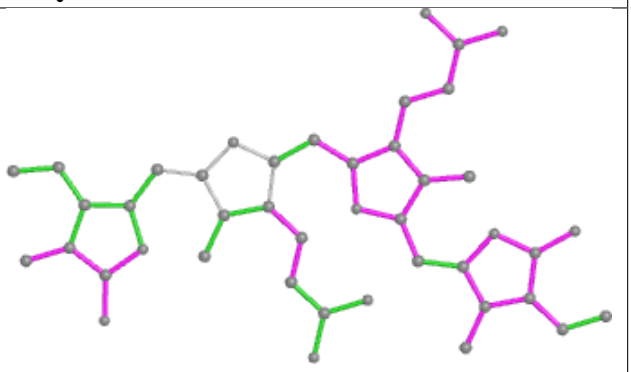

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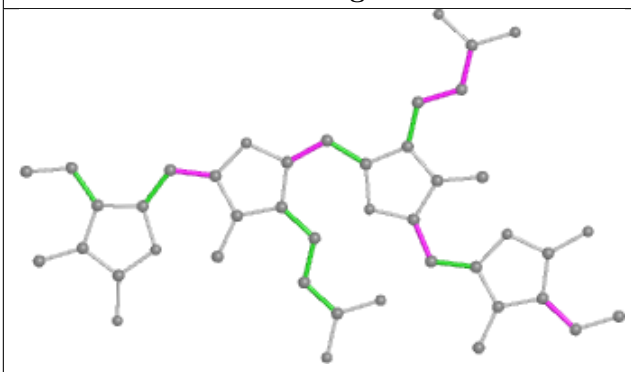

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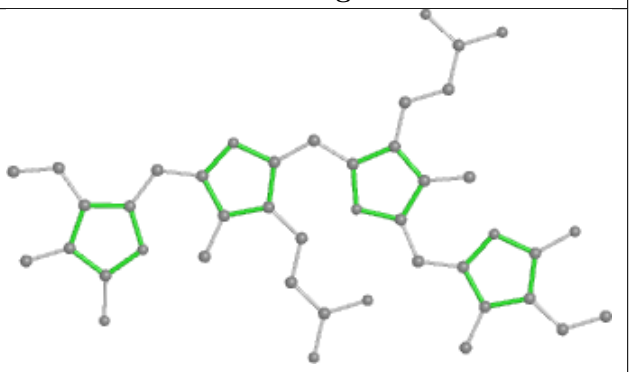
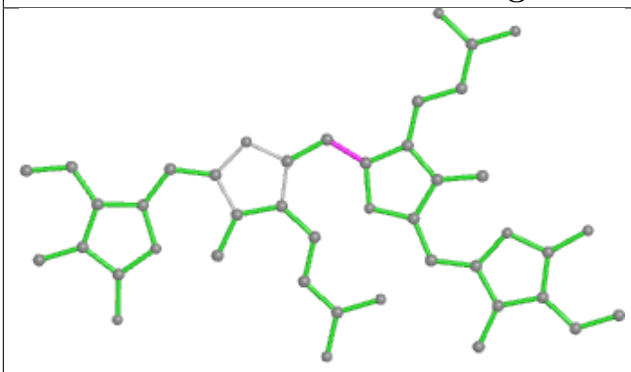


Rings

Ligand CYC XA 202



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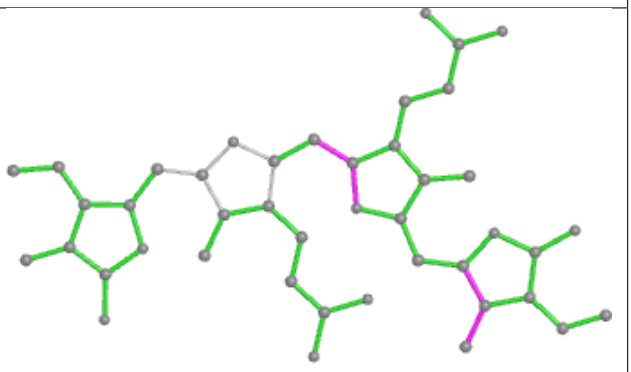
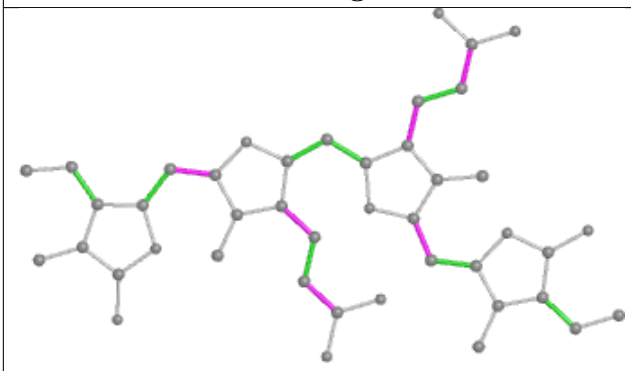


Bond angles



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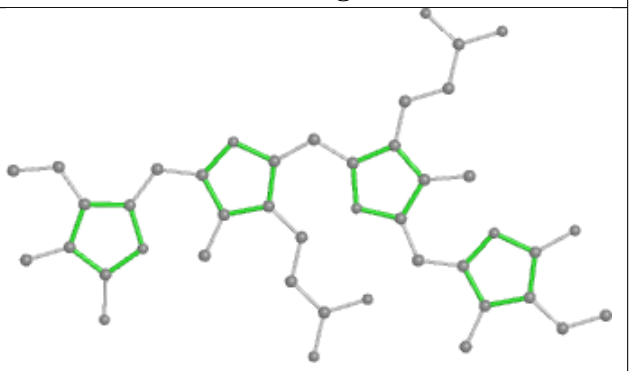
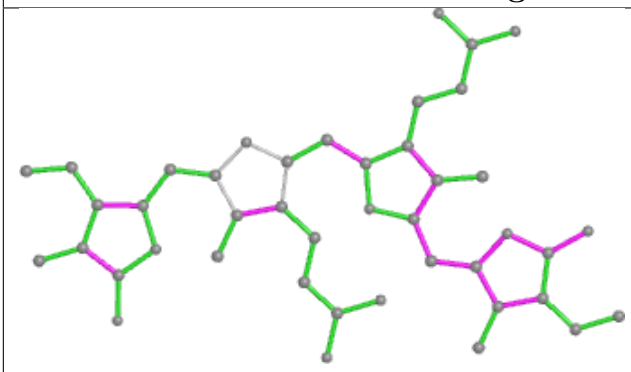


Rings

Ligand CYC o9 1001



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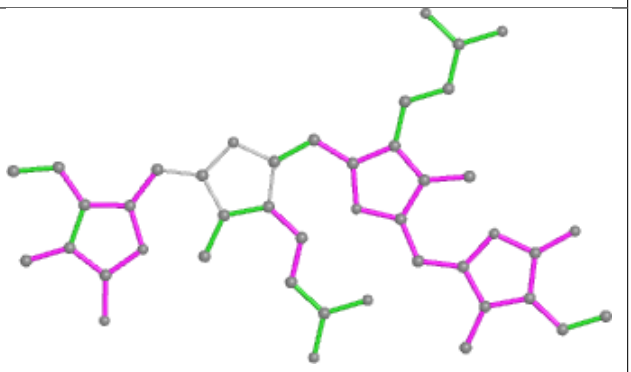
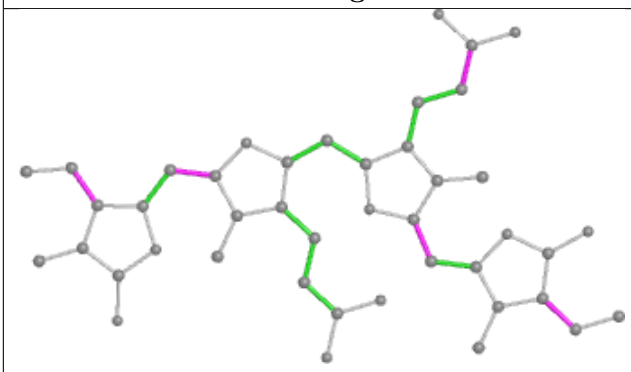


Bond angles



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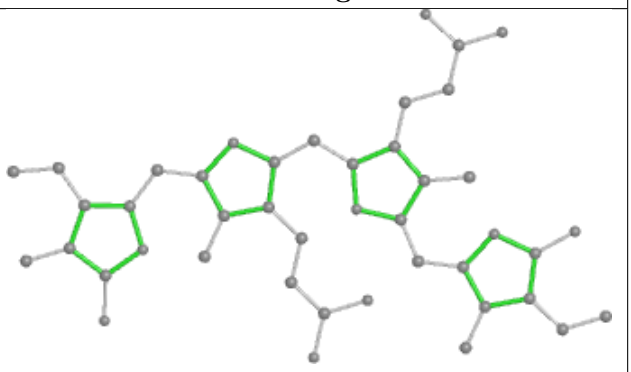
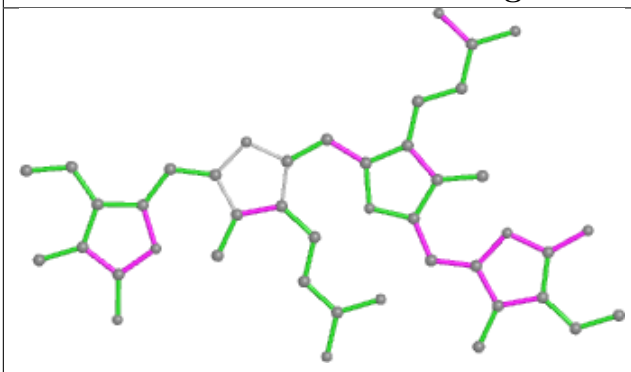


Rings

Ligand CYC B2 1001



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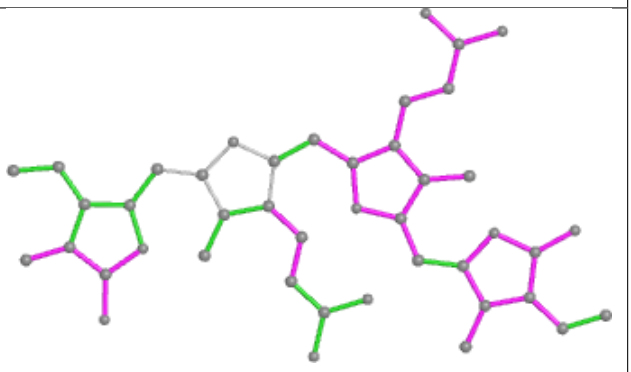
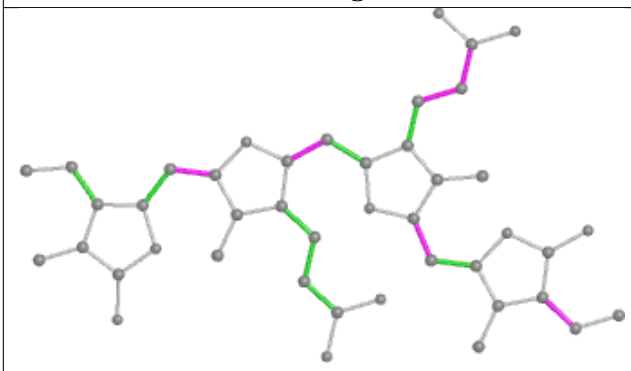


Bond angles



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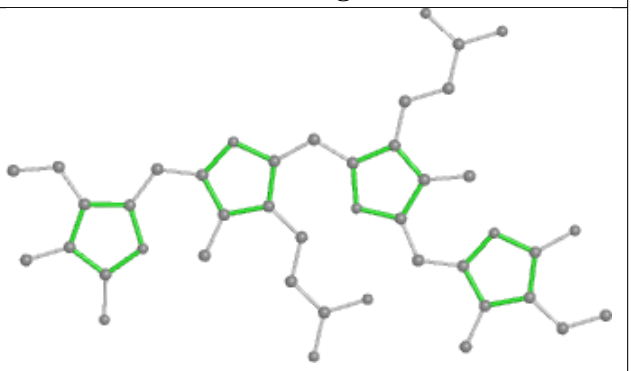
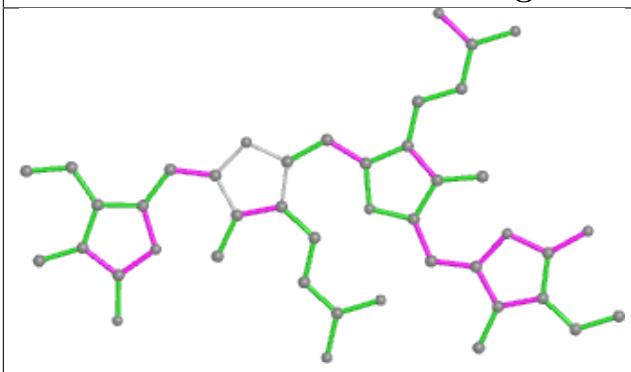
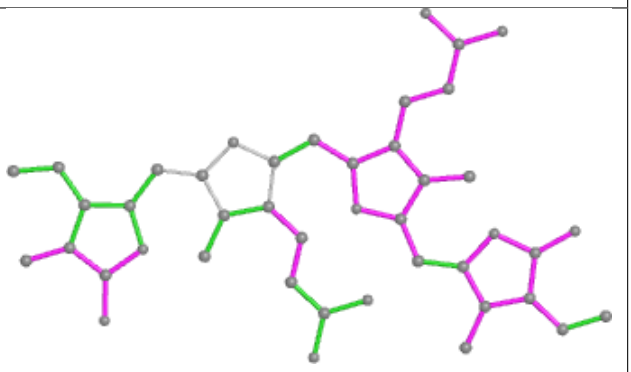


Rings

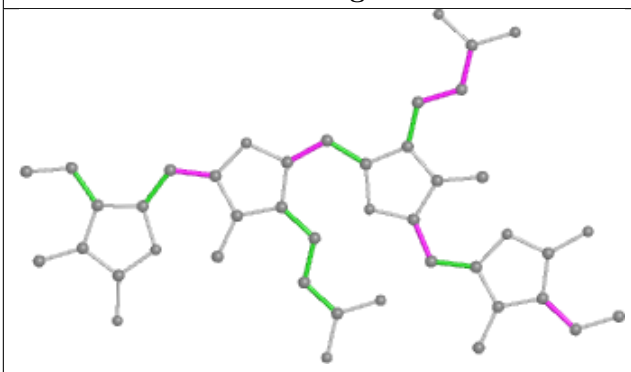
Ligand CYC L5 201



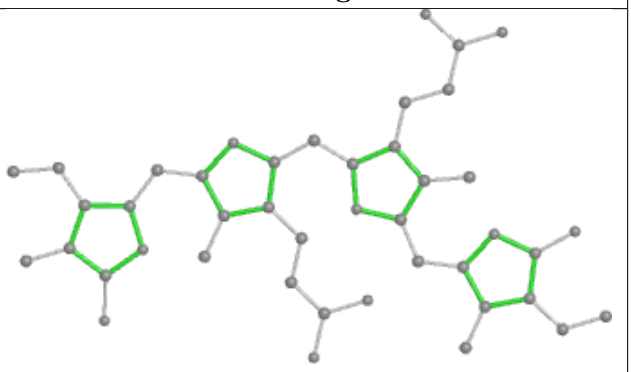
Bond lengths



Bond angles

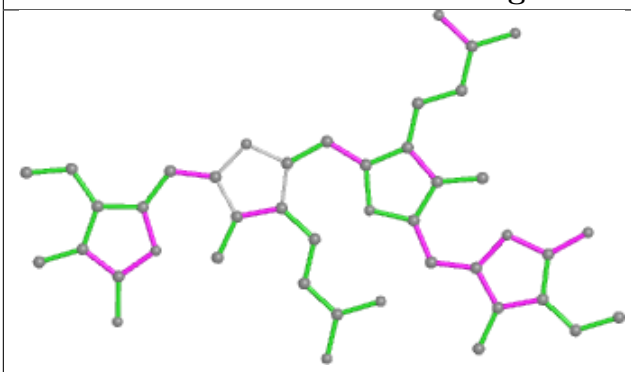


Torsions



Rings

Ligand CYC J6 1001



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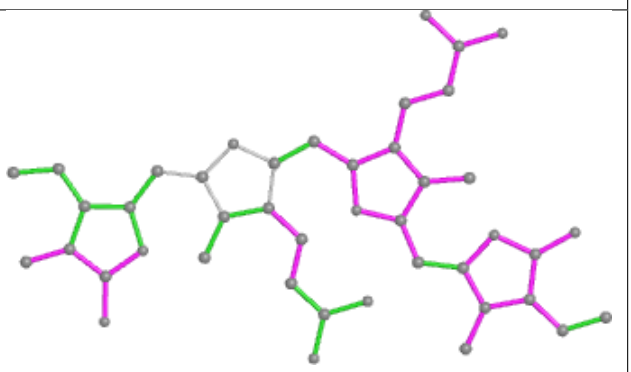
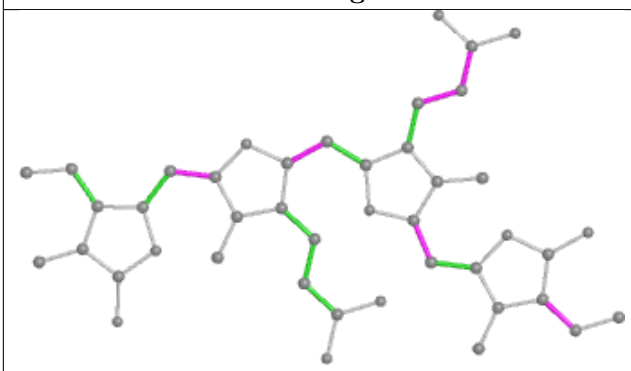


Bond angles



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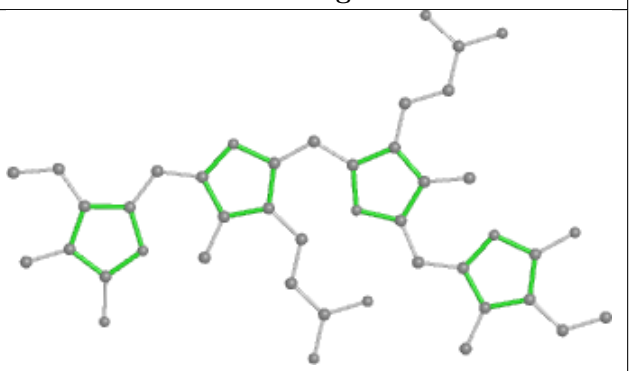
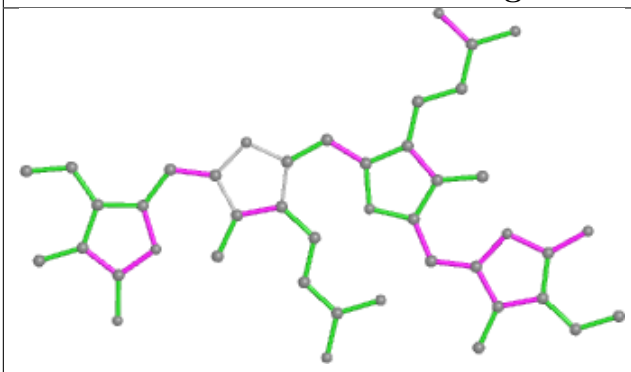


Rings

Ligand CYC B5 1001



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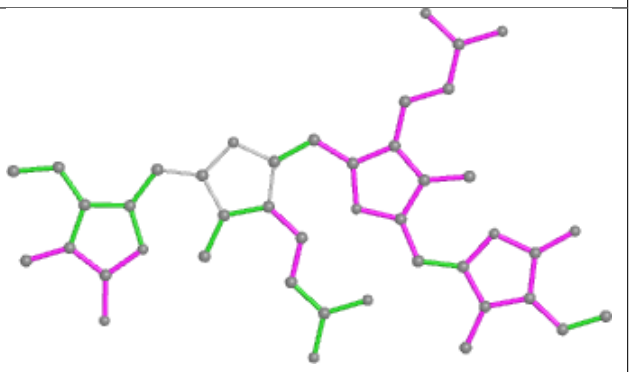
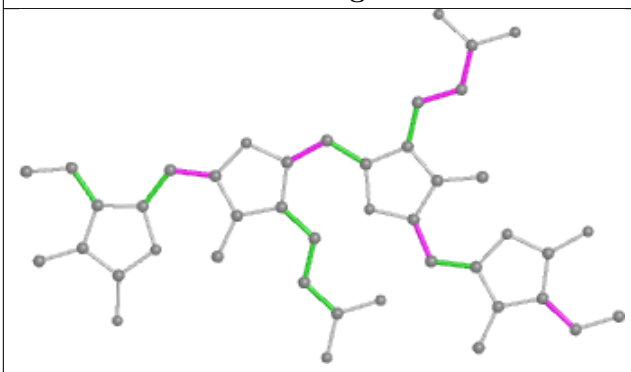


Bond angles



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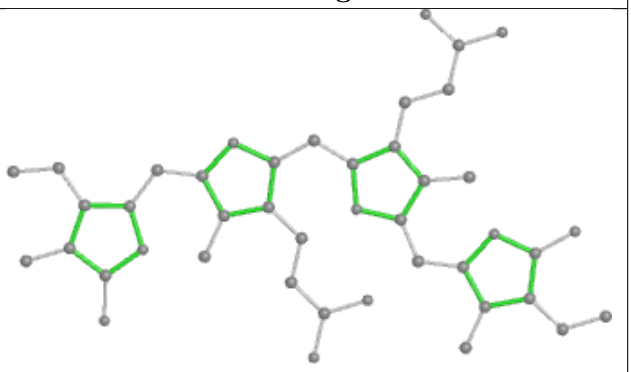
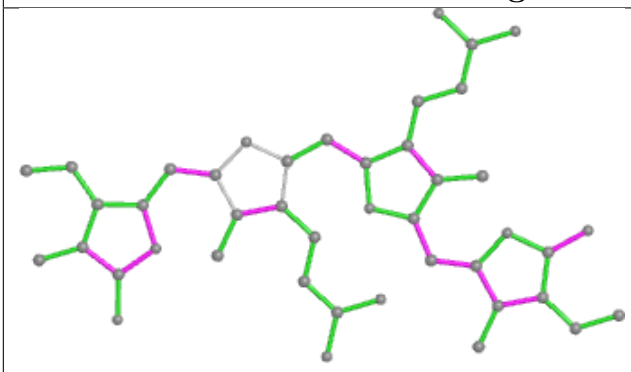


Rings

Ligand CYC 19 1205



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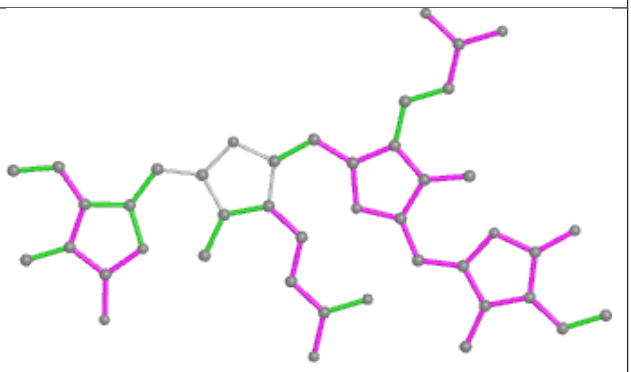
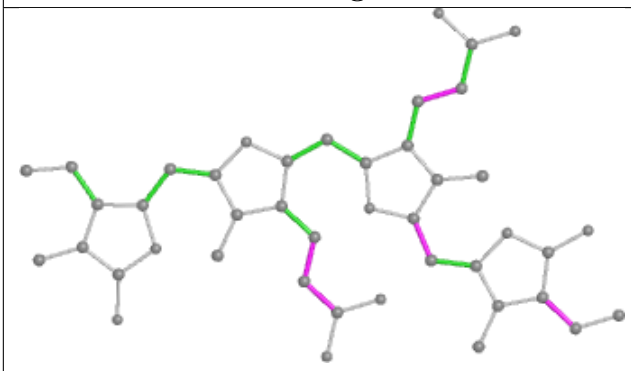


Bond angles



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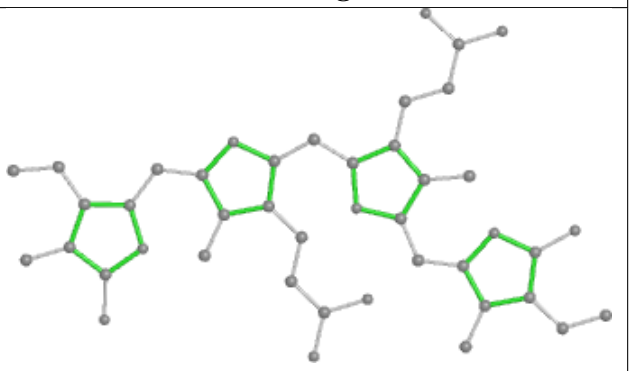
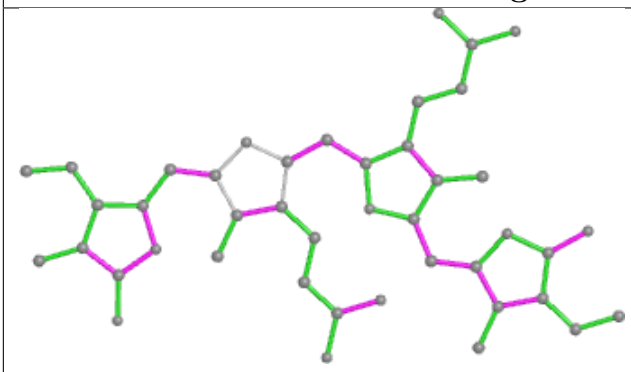


Rings

Ligand CYC I8 1001



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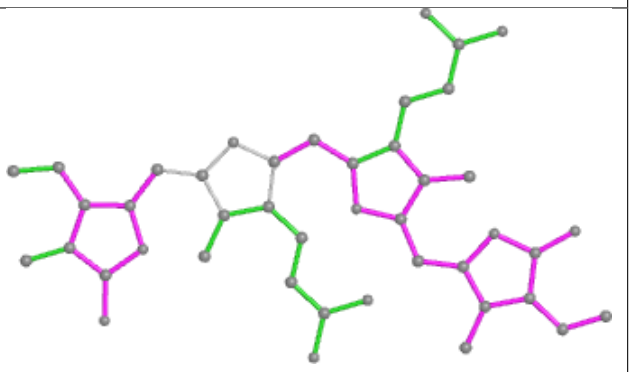
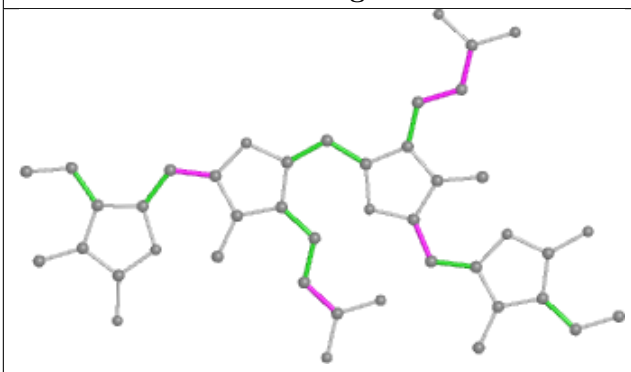


Bond angles



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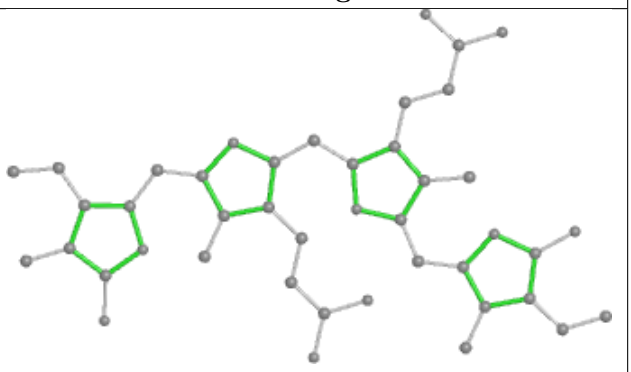
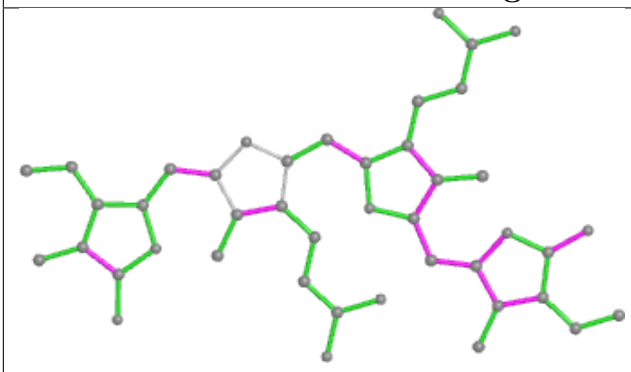


Rings

Ligand CYC X8 1001



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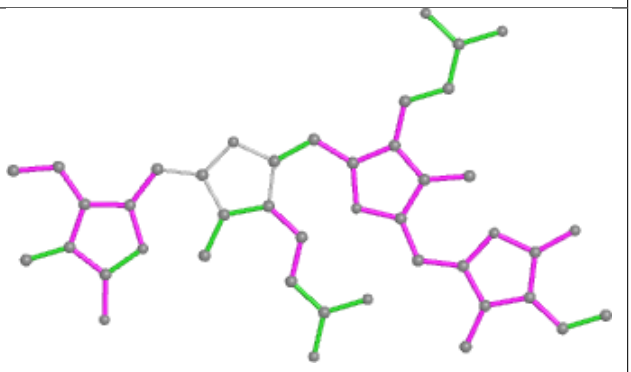
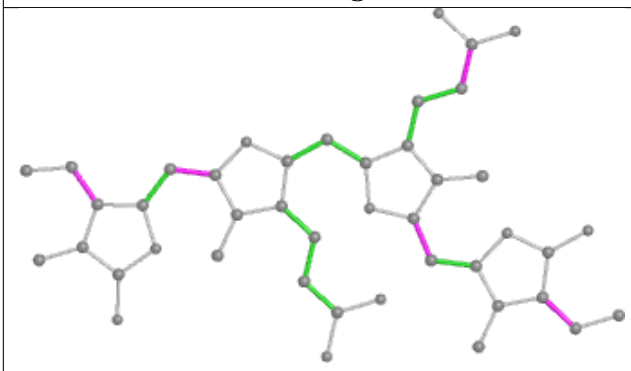


Bond angles



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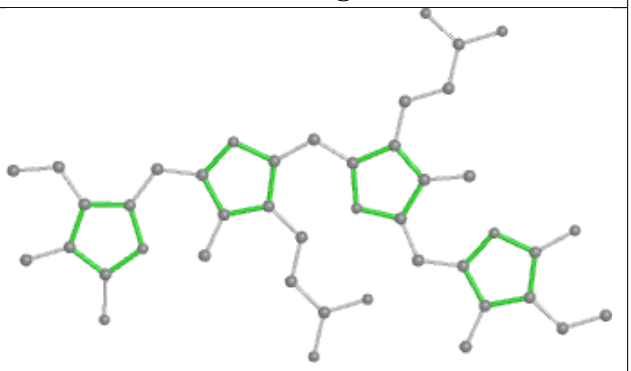
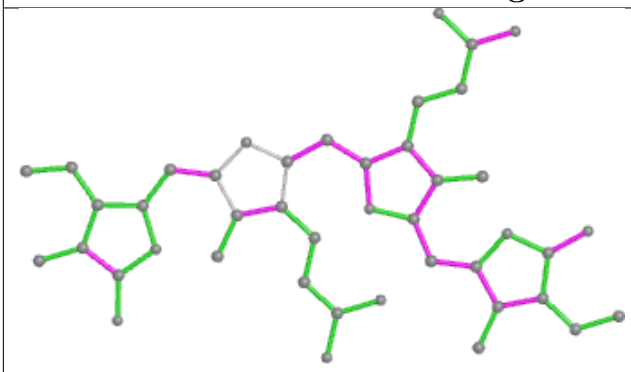


Rings

Ligand CYC AA 303



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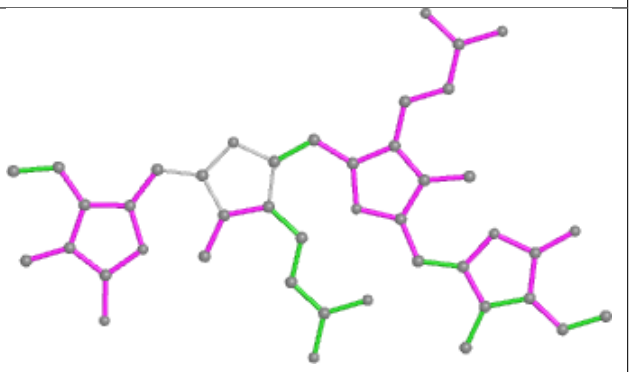

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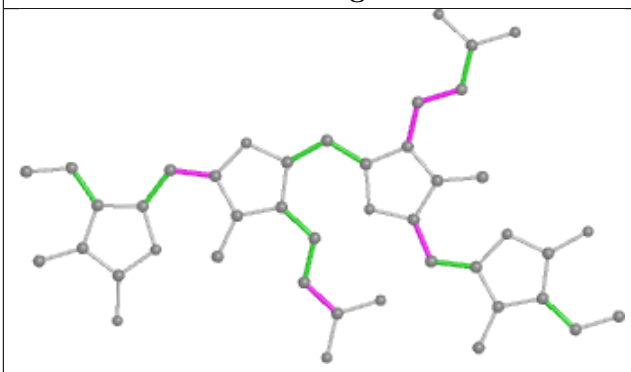

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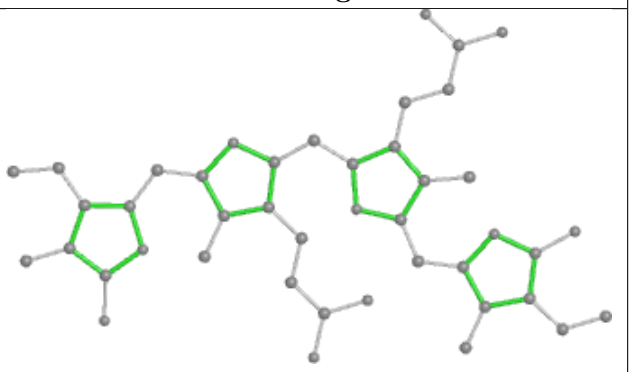
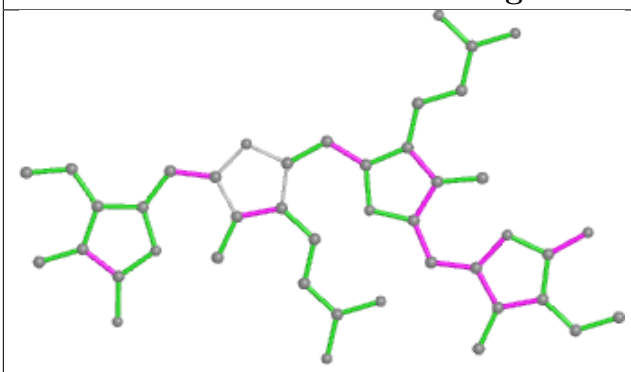


Rings

Ligand CYC E8 1001



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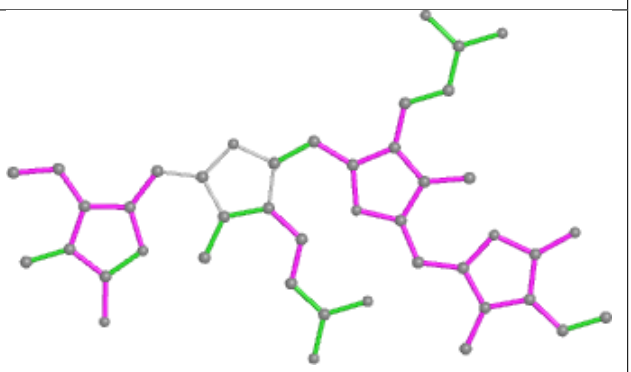

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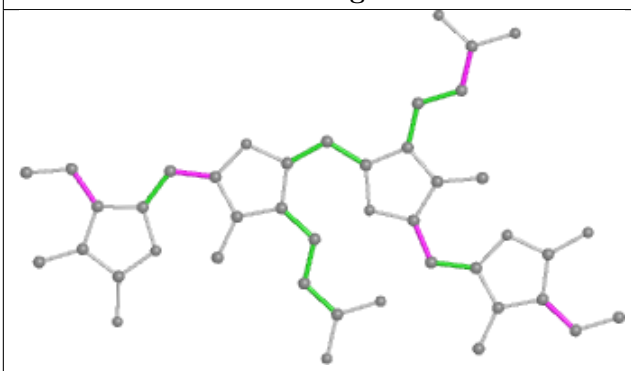

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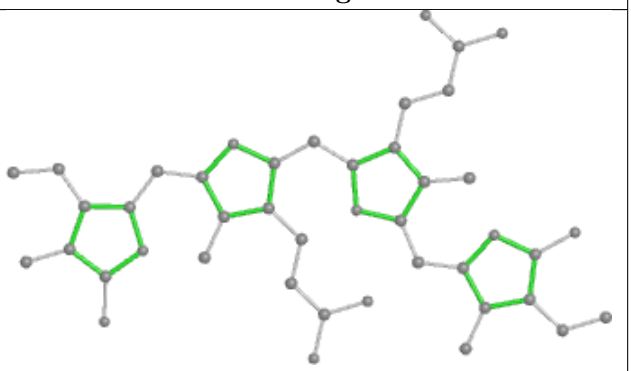
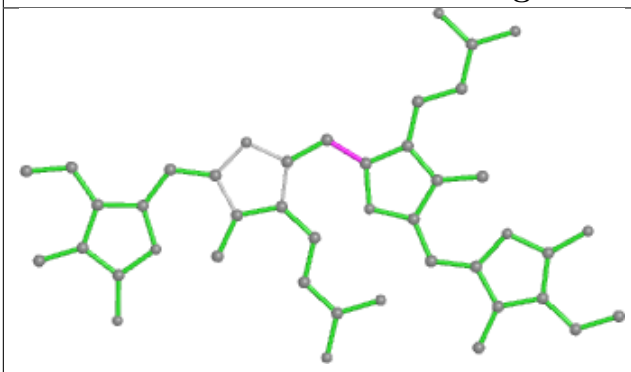


Rings

Ligand CYC C6 202



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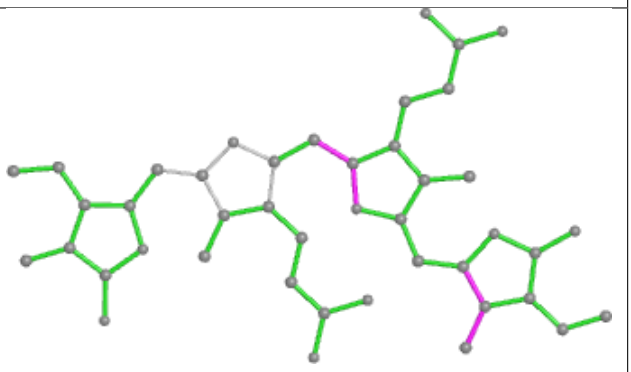
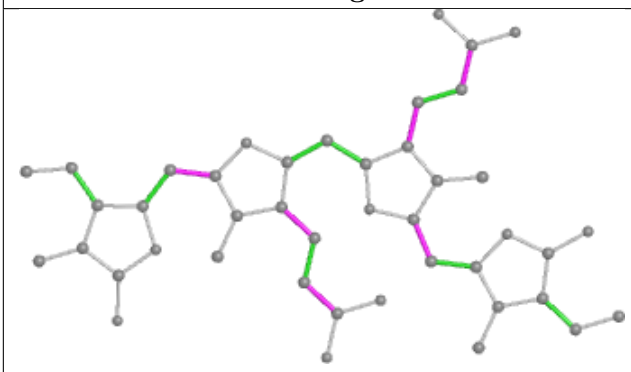
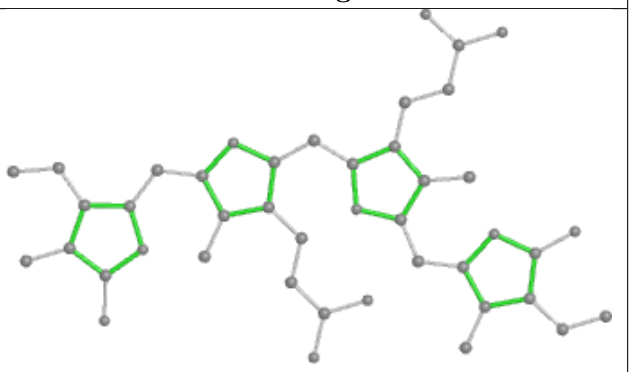


Bond angles

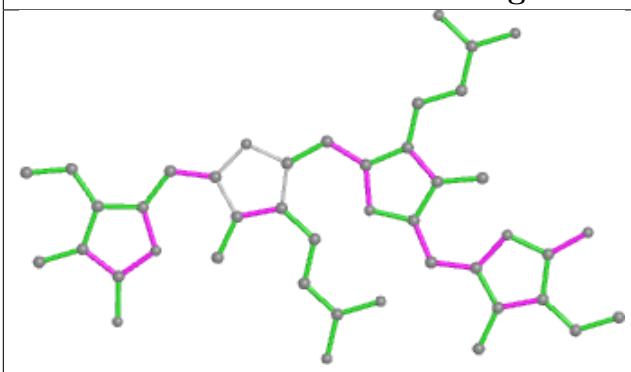


Torsions



Rings

Ligand CYC 19 1202



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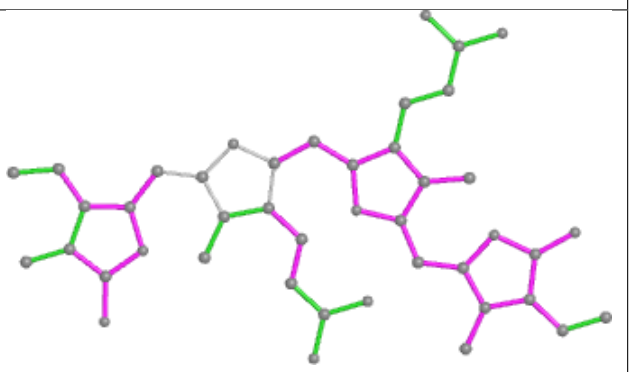

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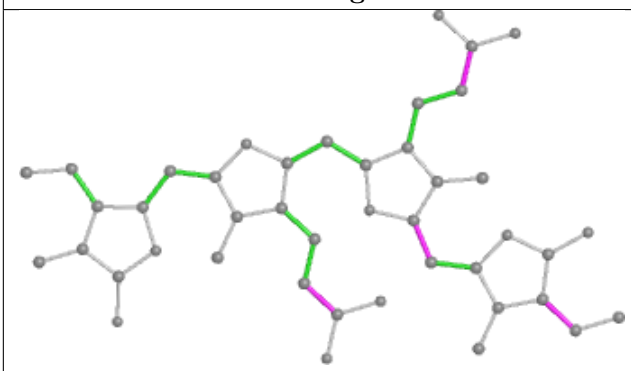

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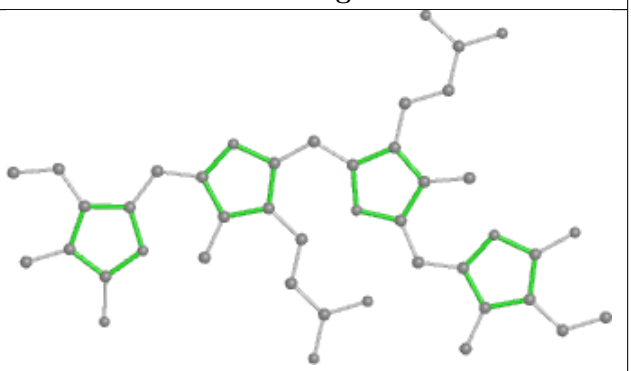
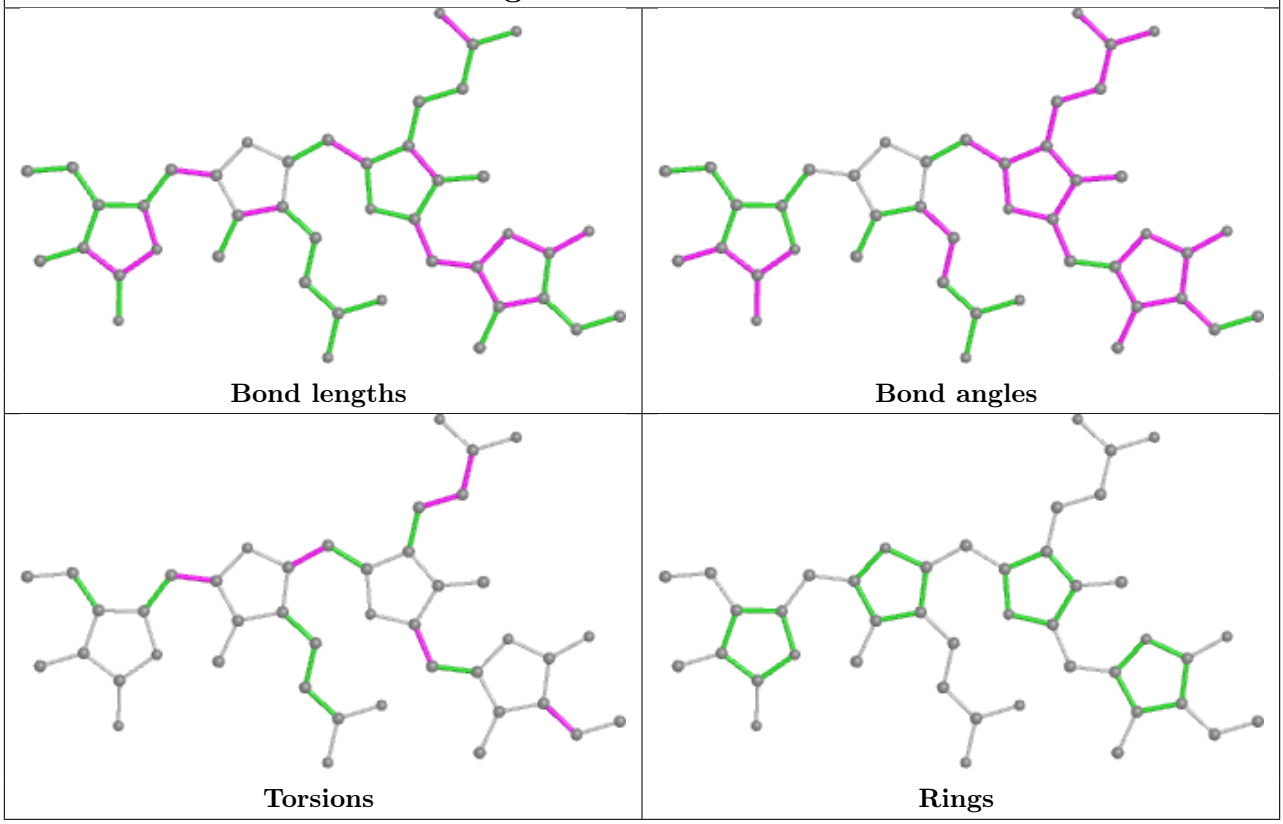
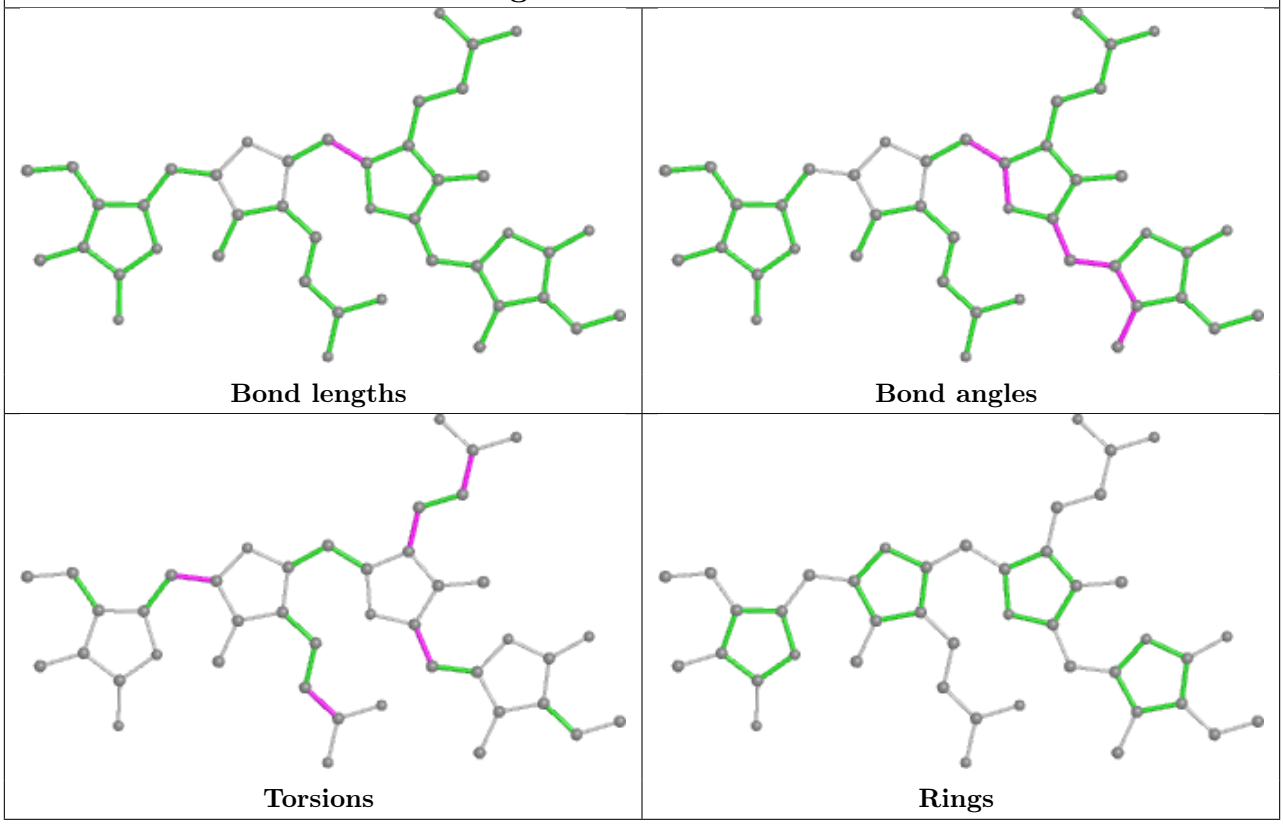


Rings

Ligand CYC D4 1001



Ligand CYC M4 201



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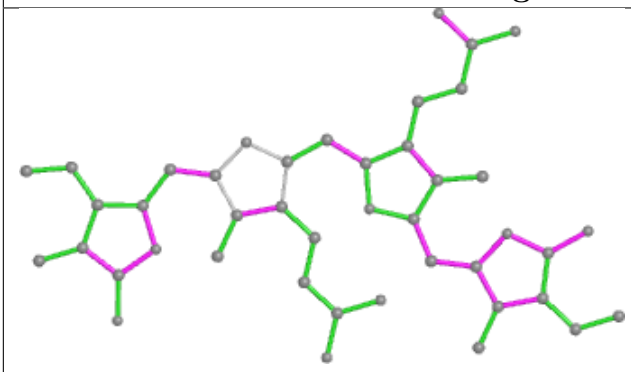

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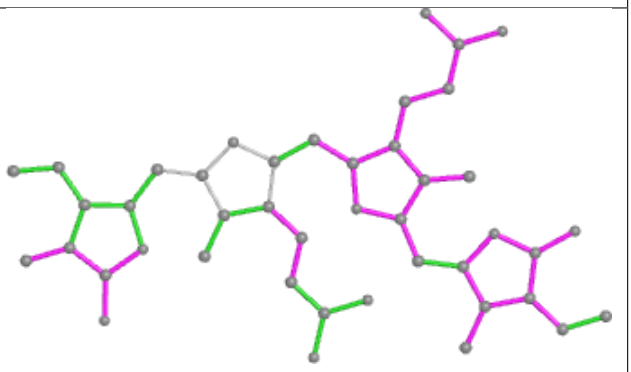
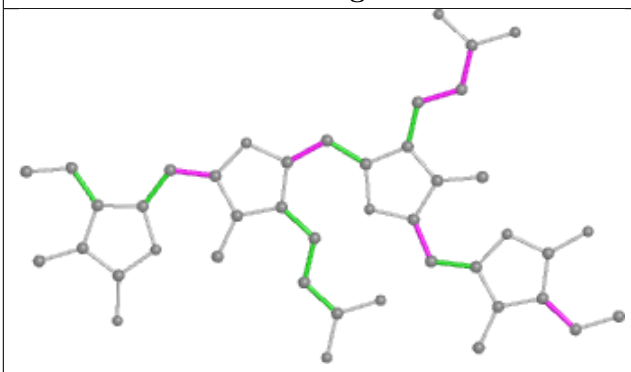
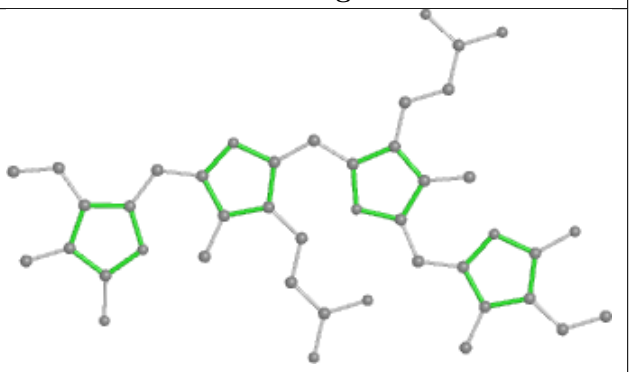


Bond angles

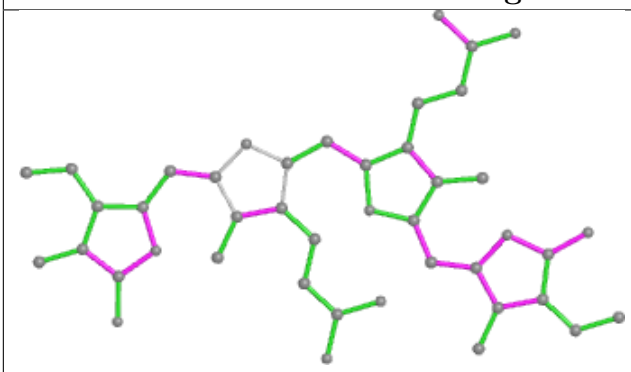


Torsions



Rings

Ligand CYC B6 1001



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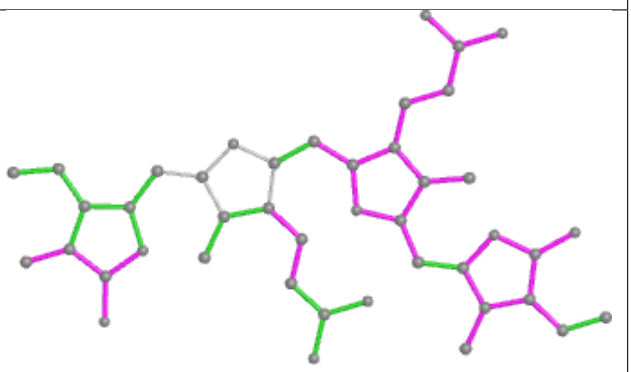
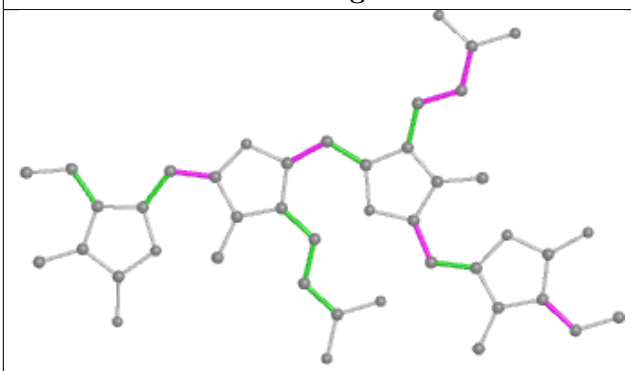


Bond angles



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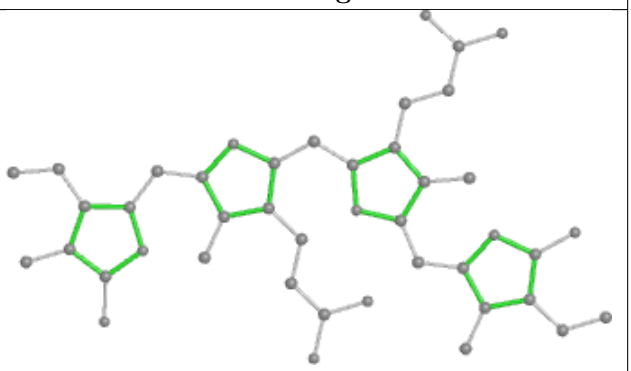
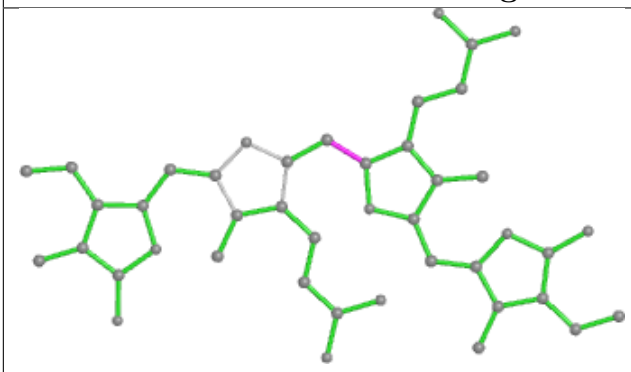


Rings

Ligand CYC M5 1003



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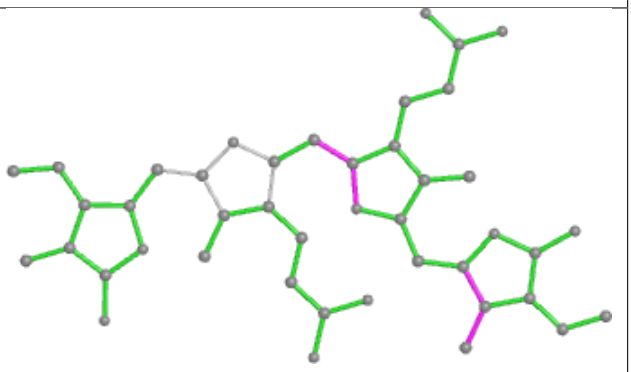
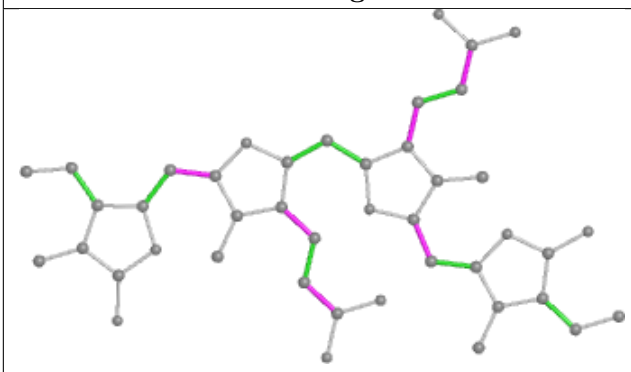


Bond angles



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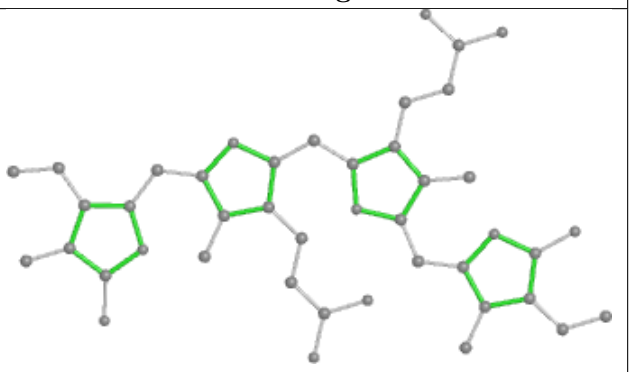
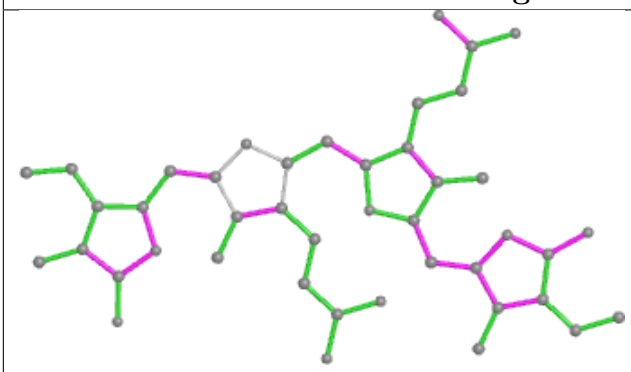


Rings

Ligand CYC V4 202



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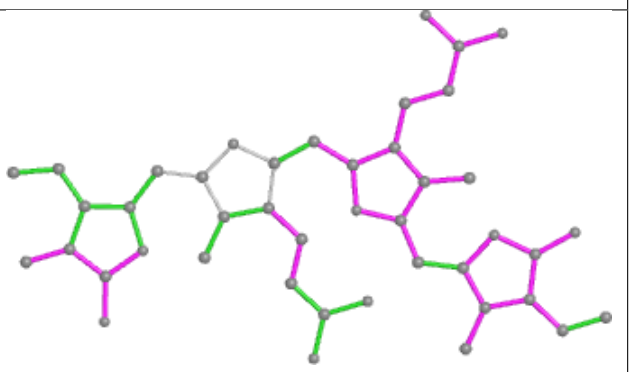
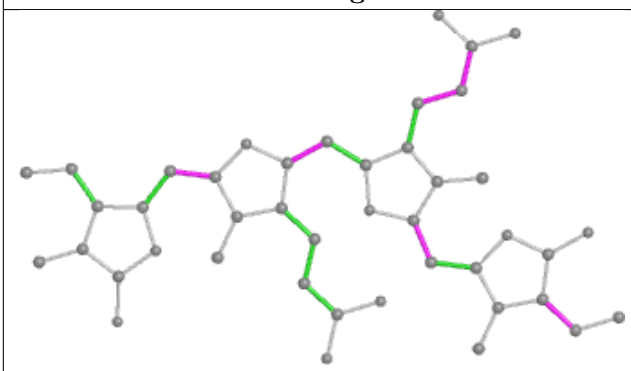
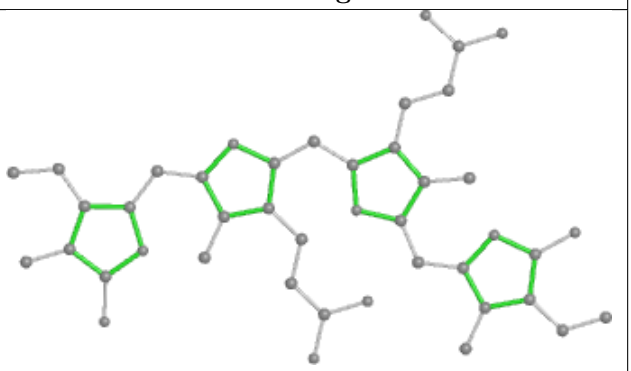


Bond angles

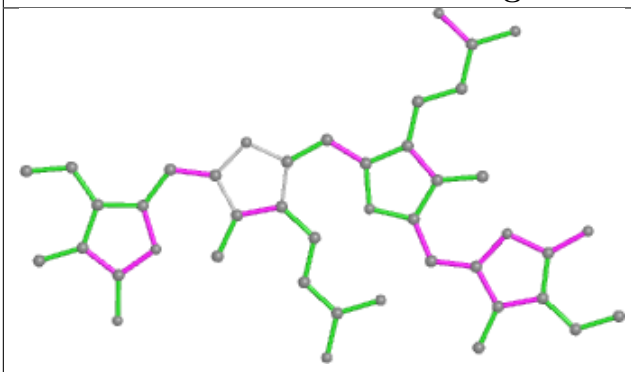


Torsions



Rings

Ligand CYC R4 1001



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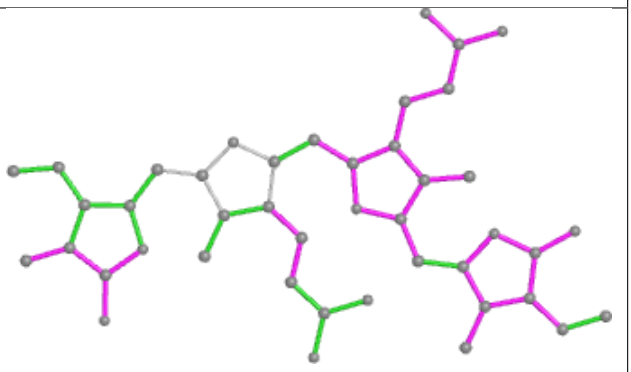
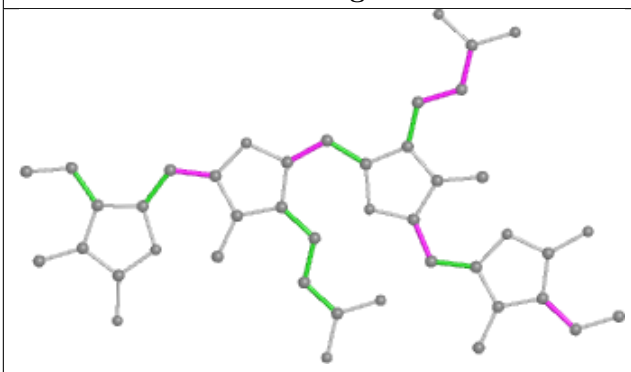


Bond angles



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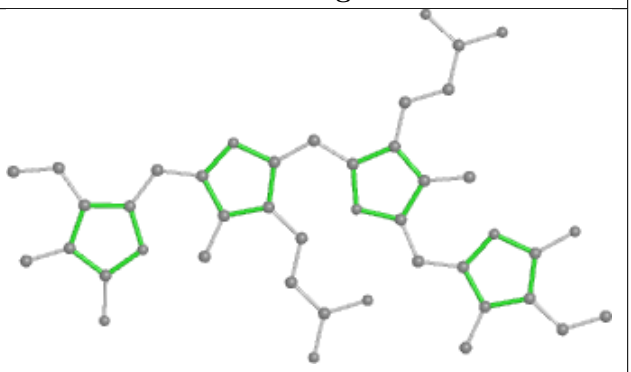
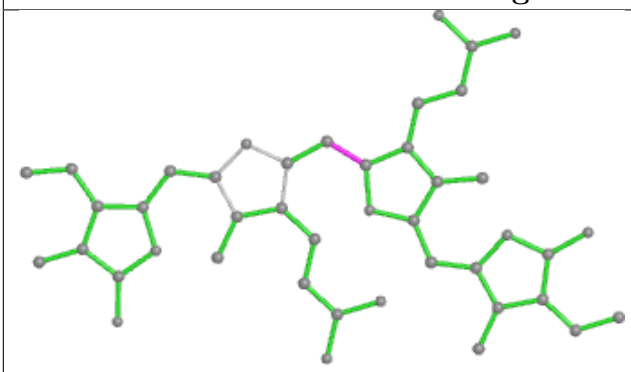


Rings

Ligand CYC G6 201



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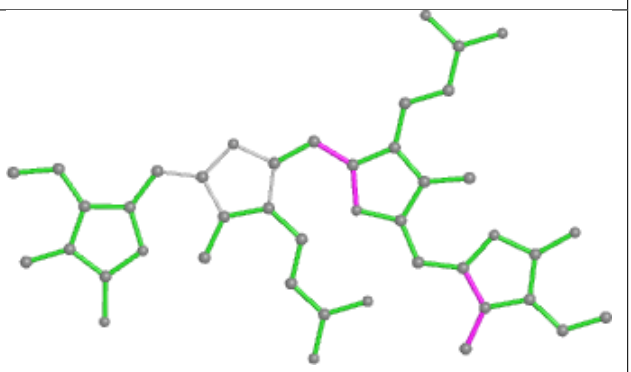

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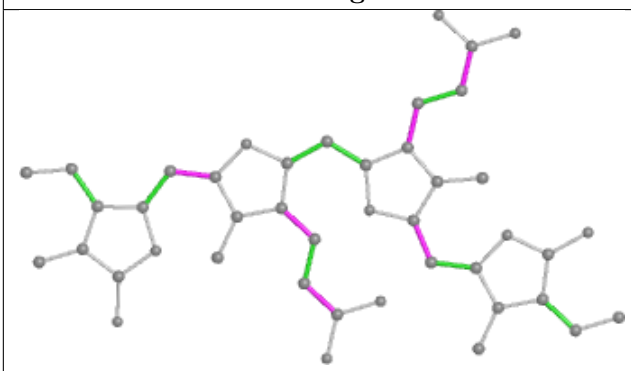

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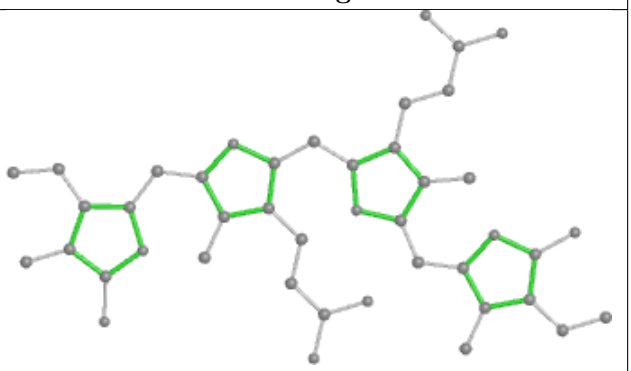

Rings

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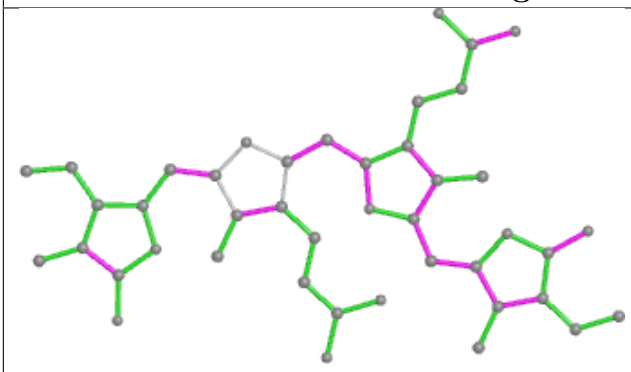

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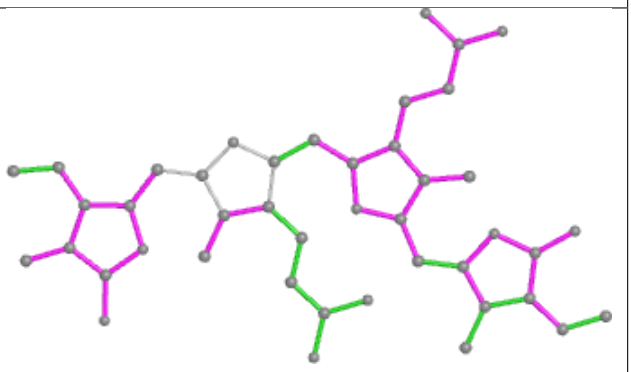
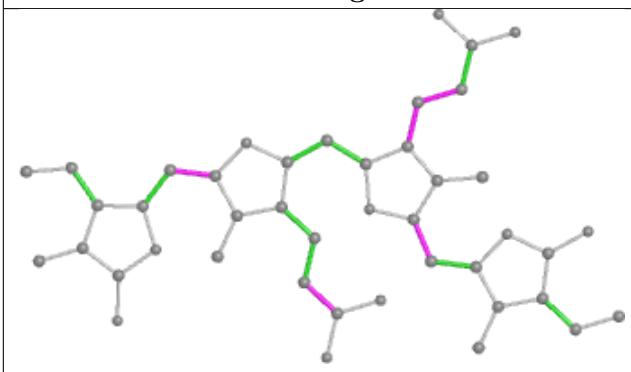


Bond angles



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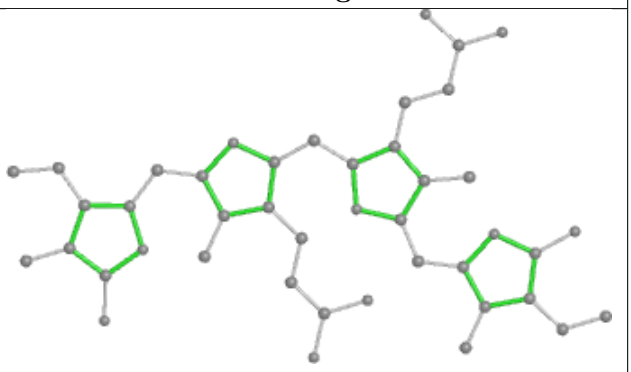
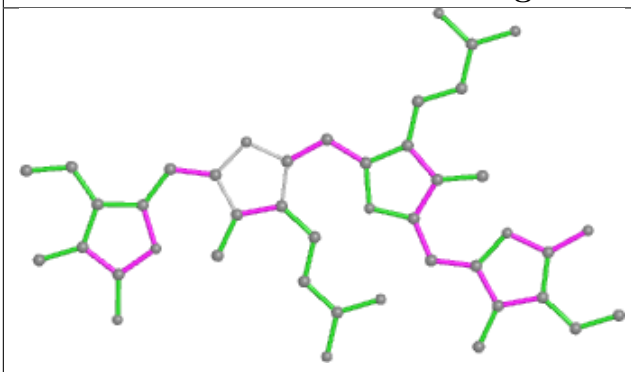


Rings

Ligand CYC E6 201



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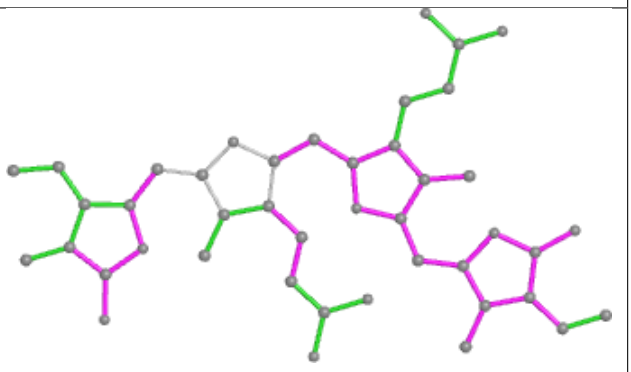
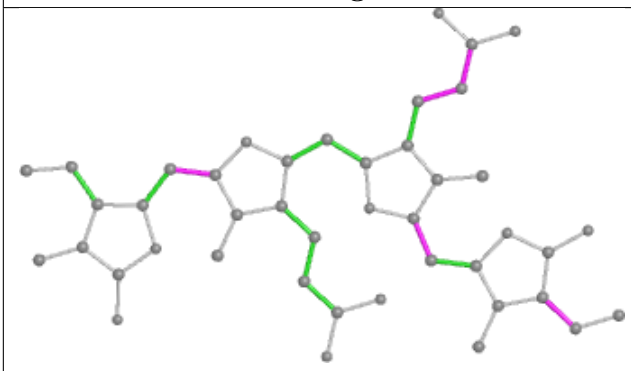


Bond angles



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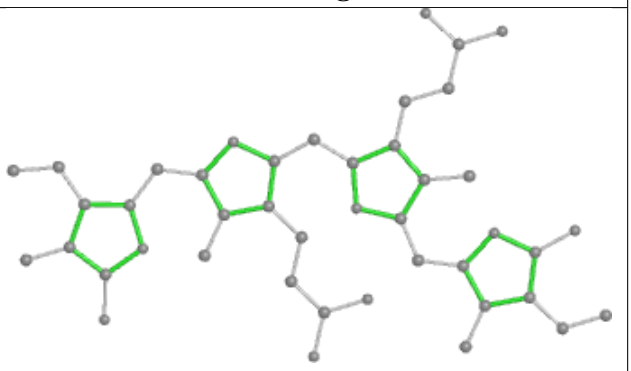
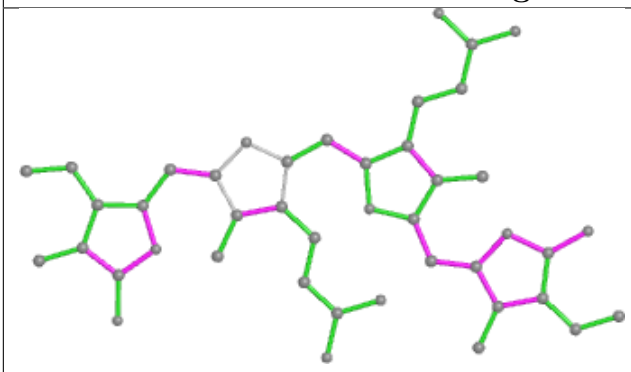


Rings

Ligand CYC Q9 201



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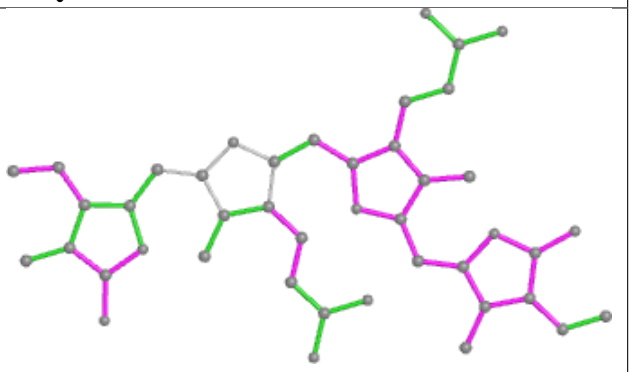

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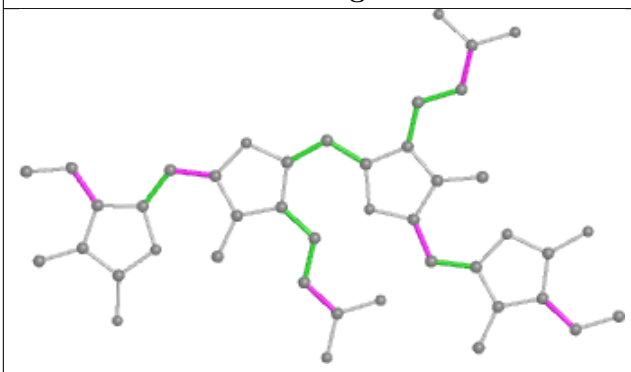

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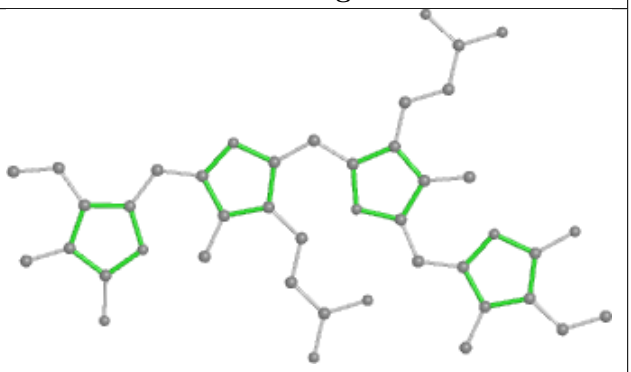
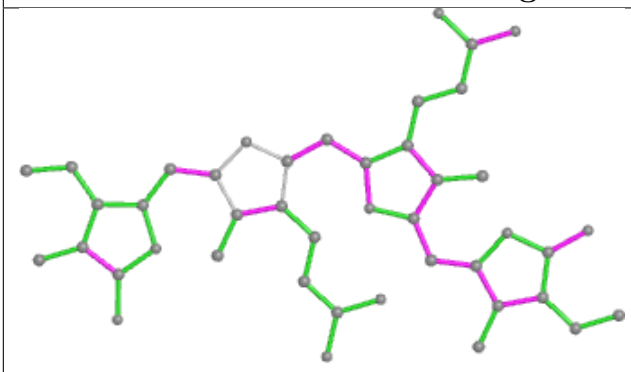


Rings

Ligand CYC I4 201



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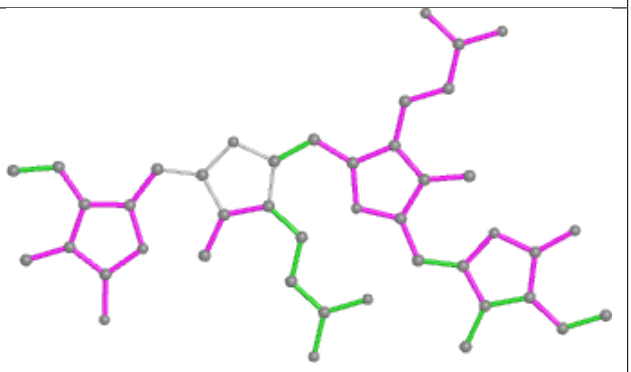

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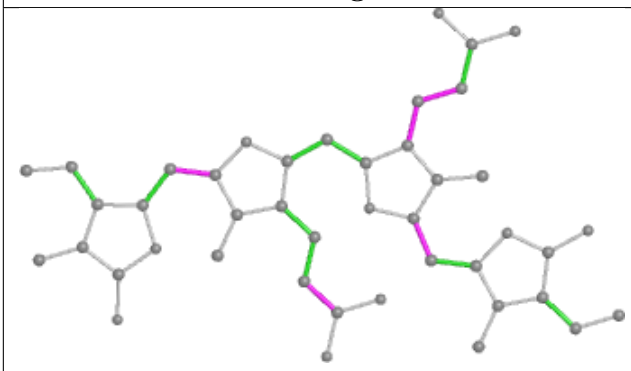

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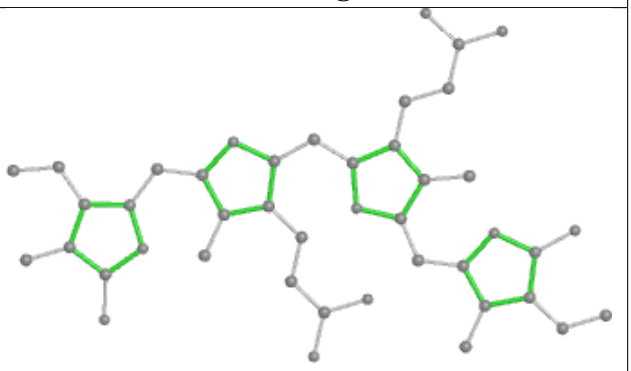
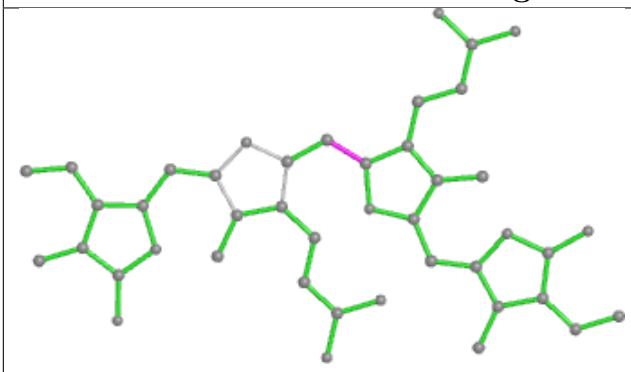


Rings

Ligand CYC C7 201



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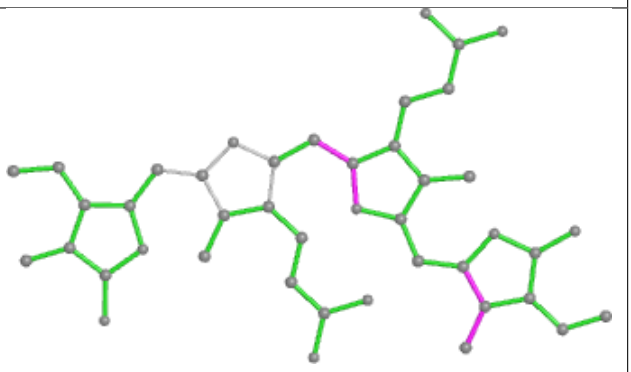

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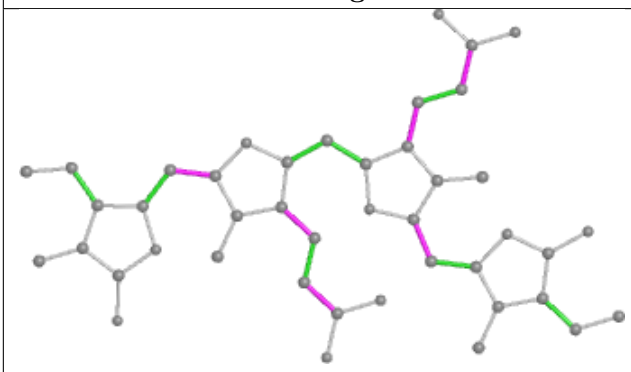

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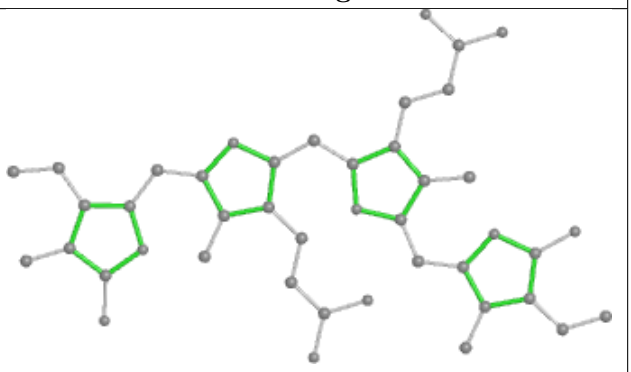
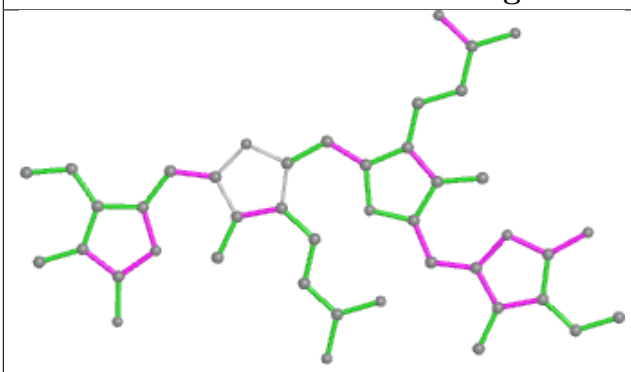


Rings

Ligand CYC D7 1001



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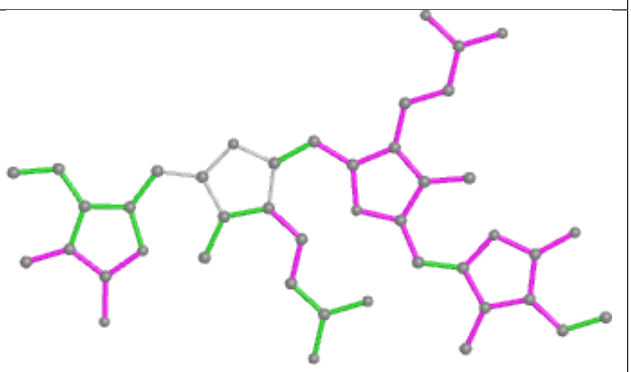

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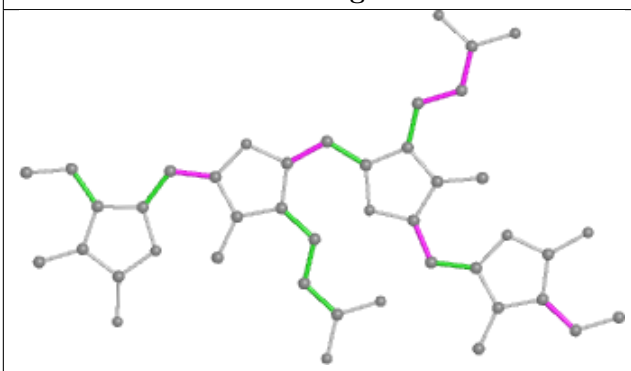

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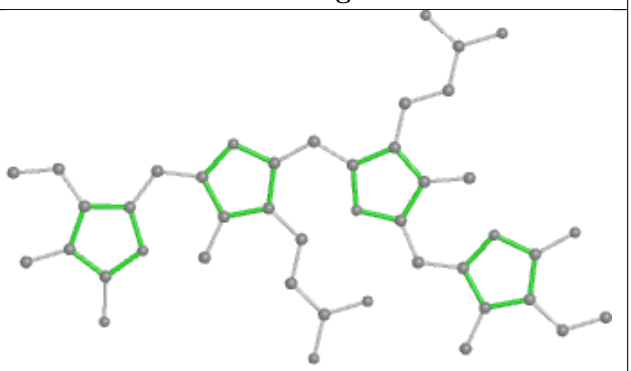
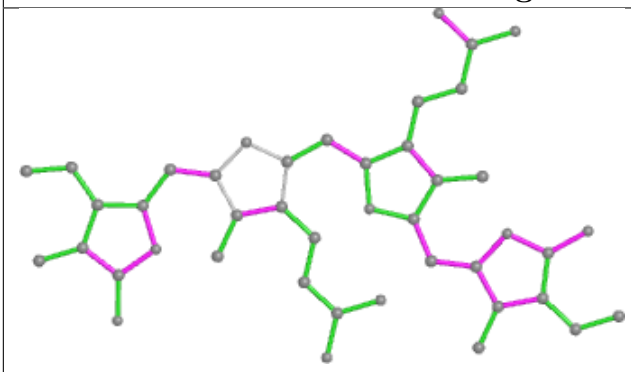


Rings

Ligand CYC L6 201



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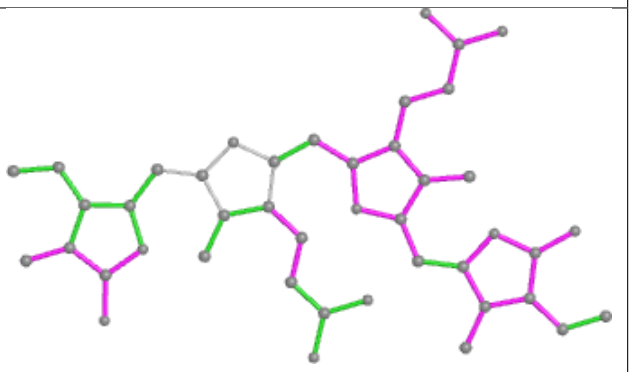

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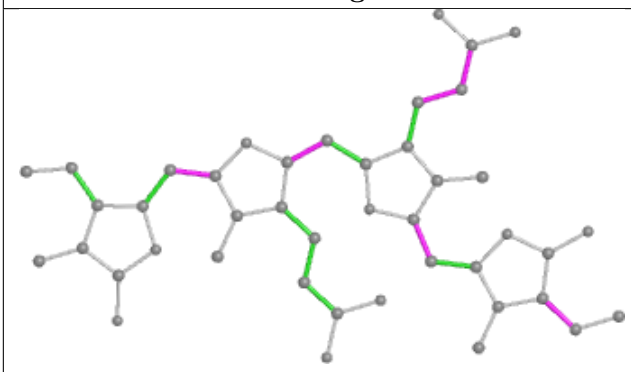

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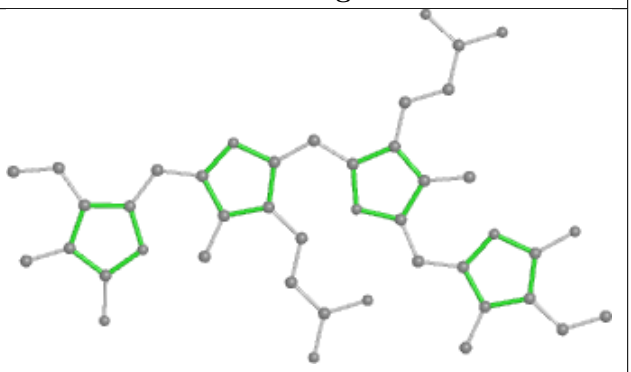
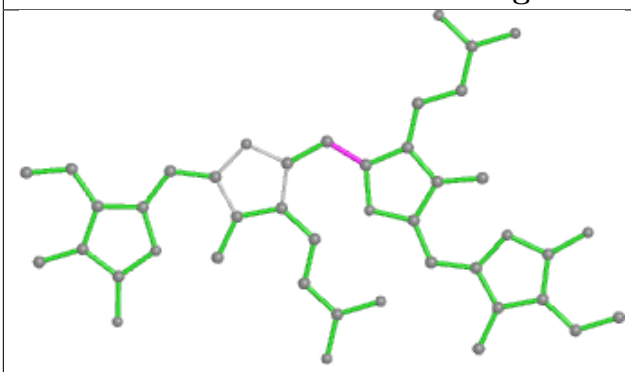


Rings

Ligand CYC V2 201



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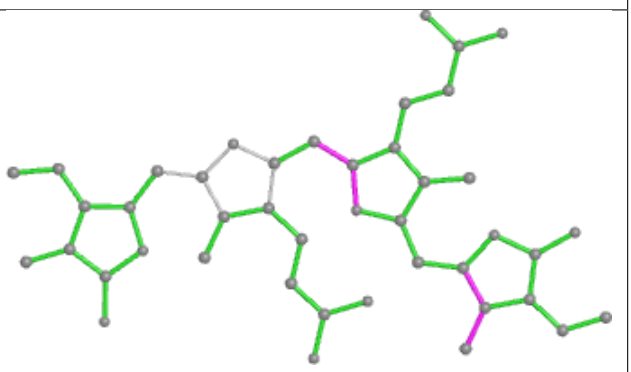
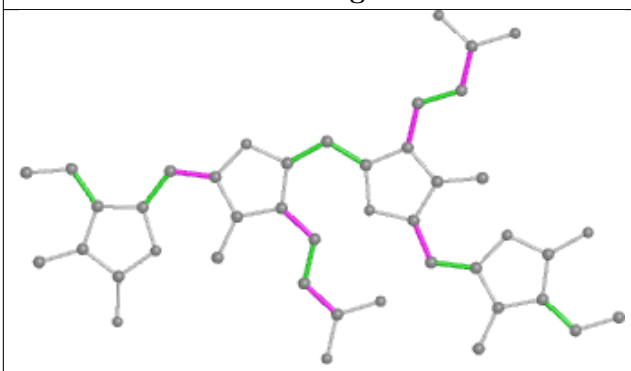


Bond angles



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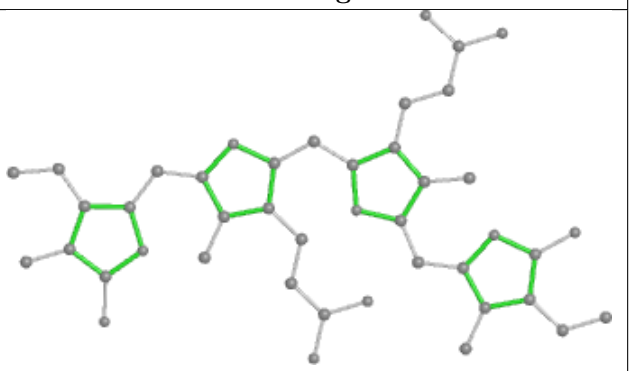
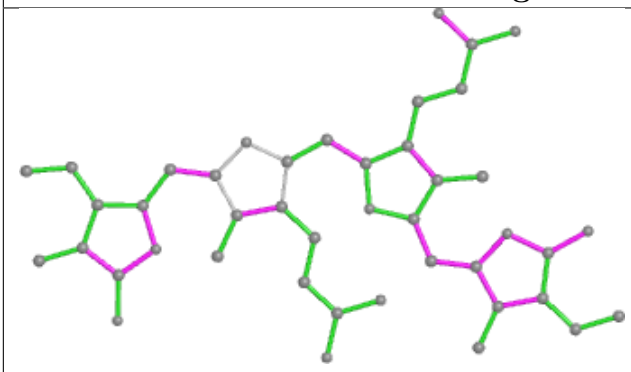


Rings

Ligand CYC Y2 201



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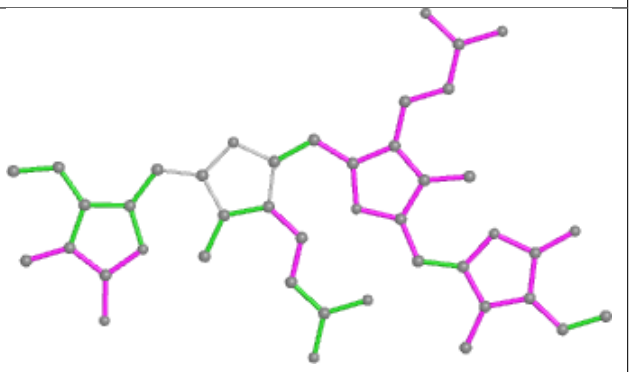
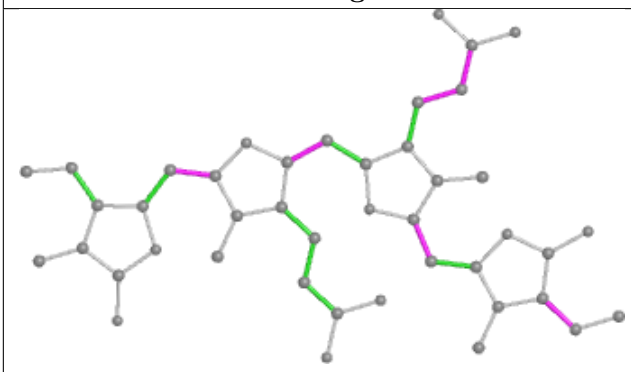


Bond angles



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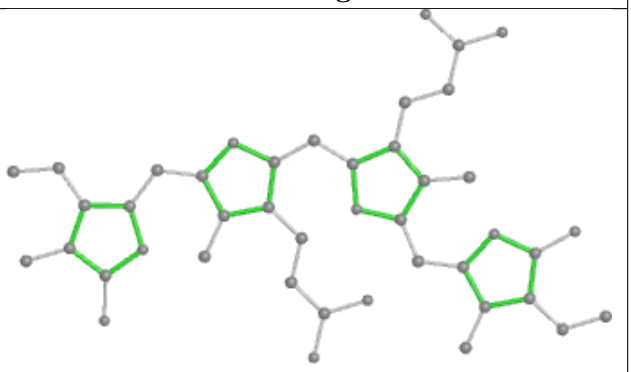
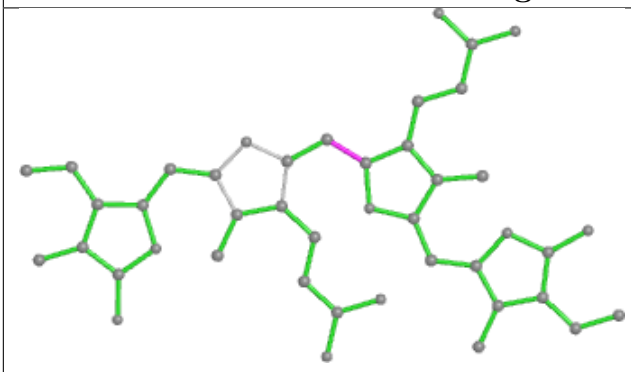


Rings

Ligand CYC E7 202



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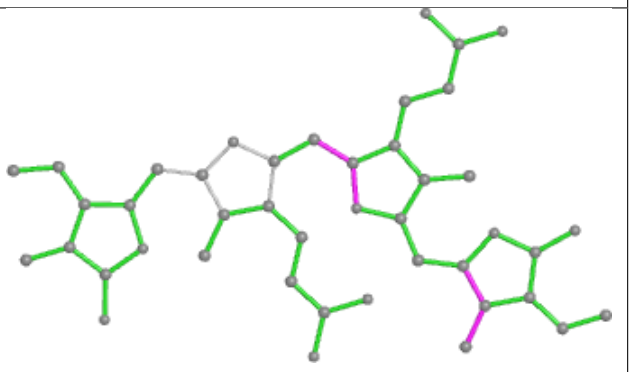
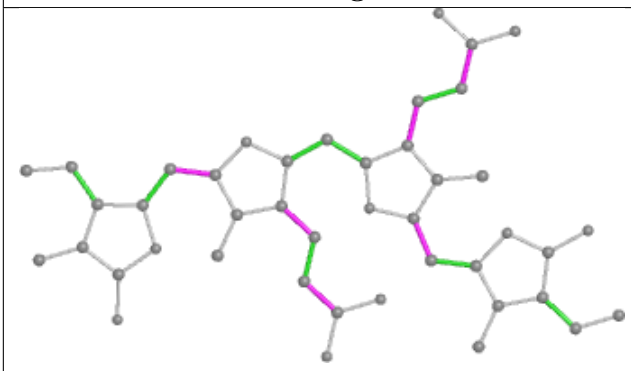
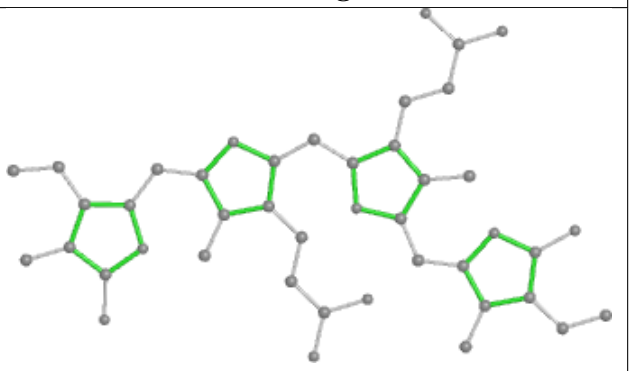


Bond angles

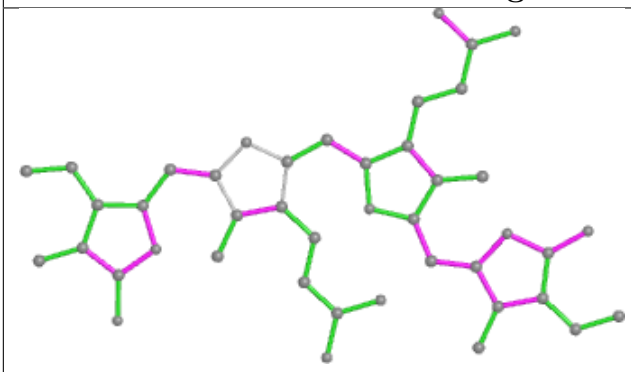


Torsions



Rings

Ligand CYC S2 1001



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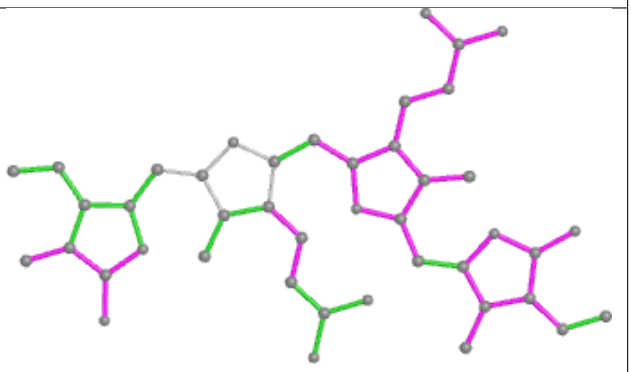
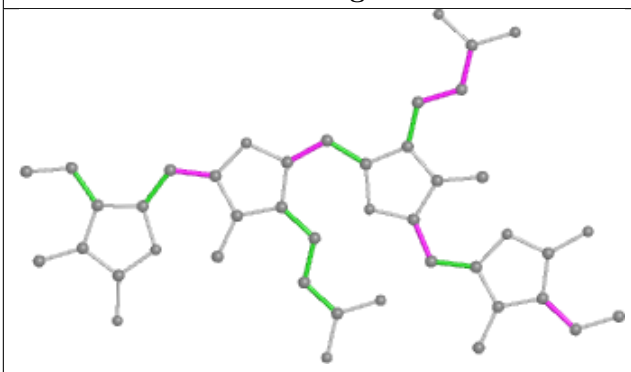
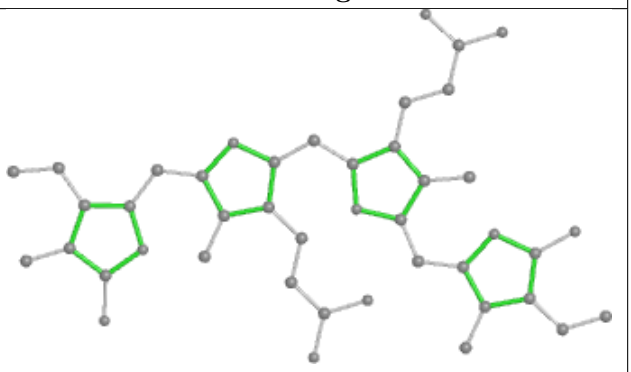


Bond angles

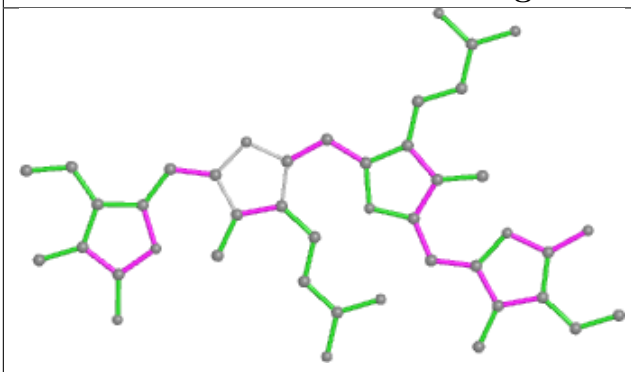


Torsions



Rings

Ligand CYC E7 201



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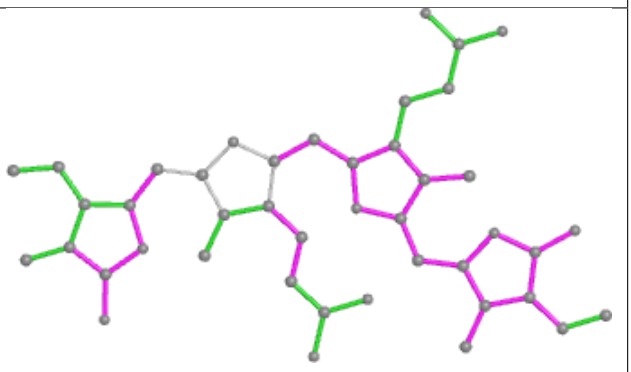
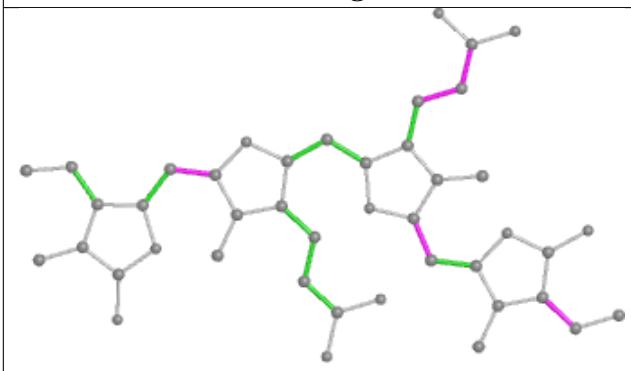
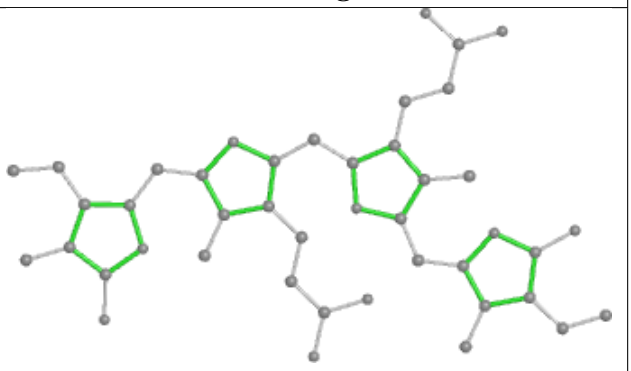


Bond angles

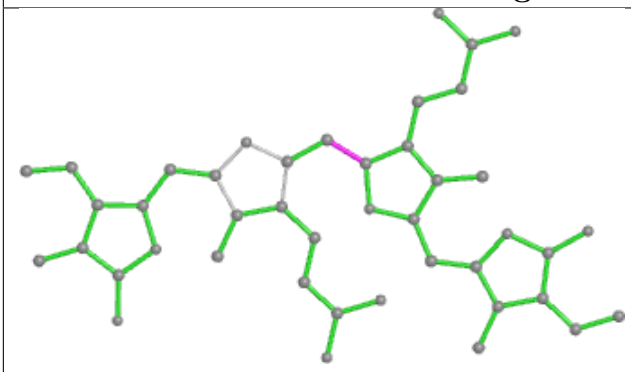


Torsions

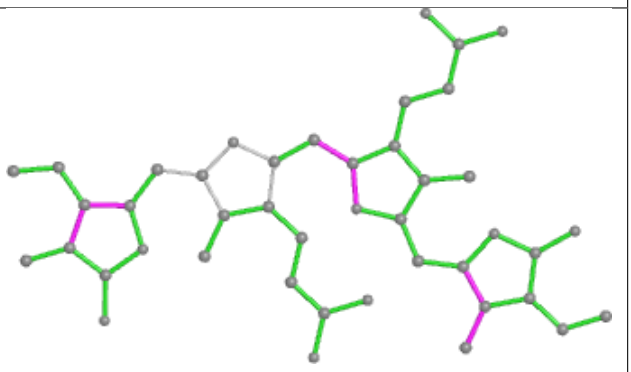


Rings

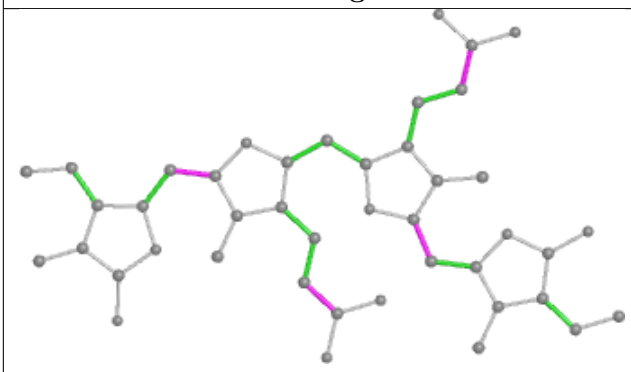
Ligand CYC P5 201



Bond lengths



Bond angles



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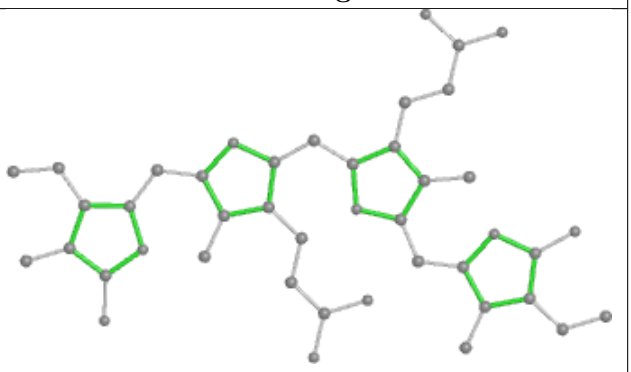
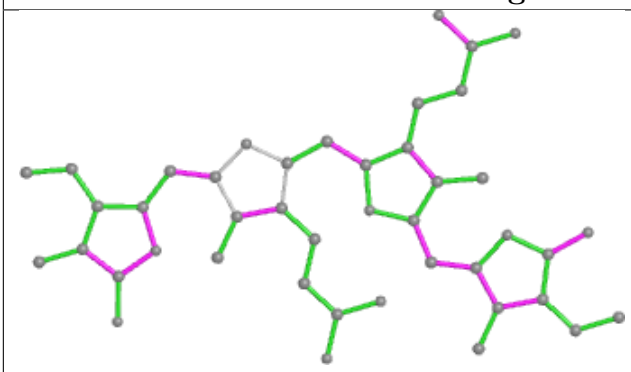


Rings

Ligand CYC J9 1001



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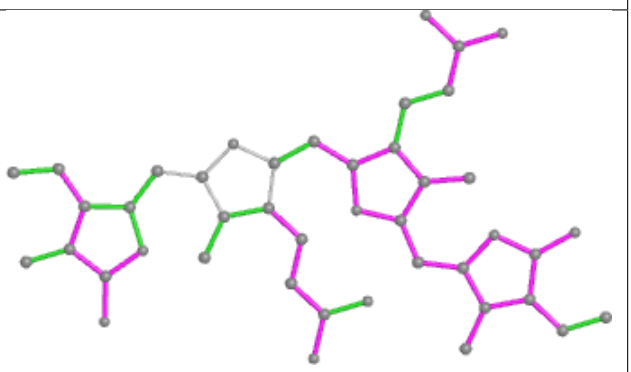
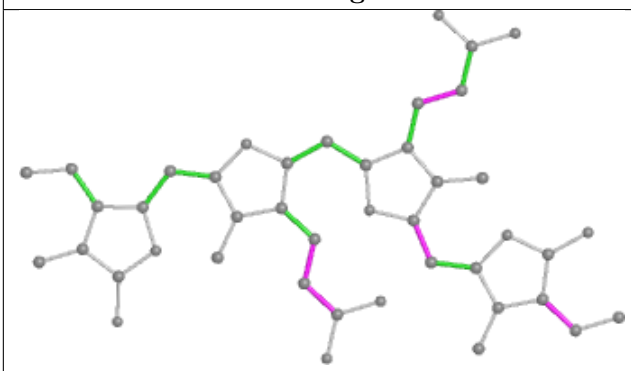


Bond angles



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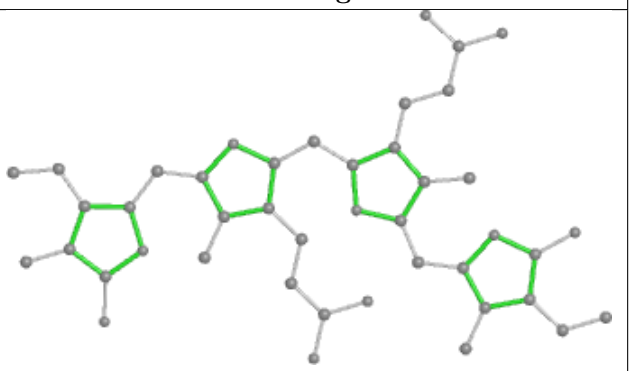
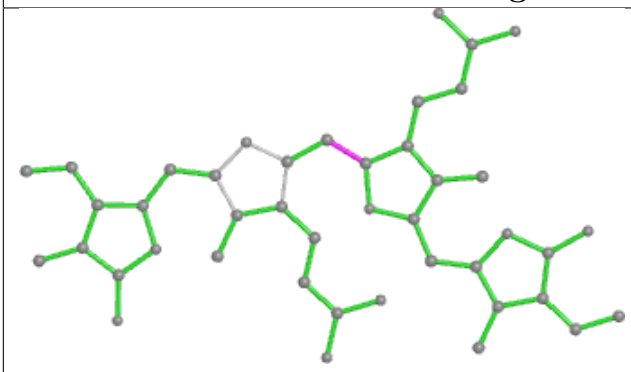


Rings

Ligand CYC M3 201



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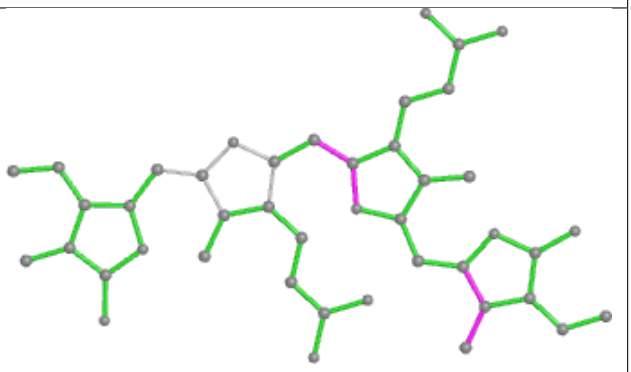
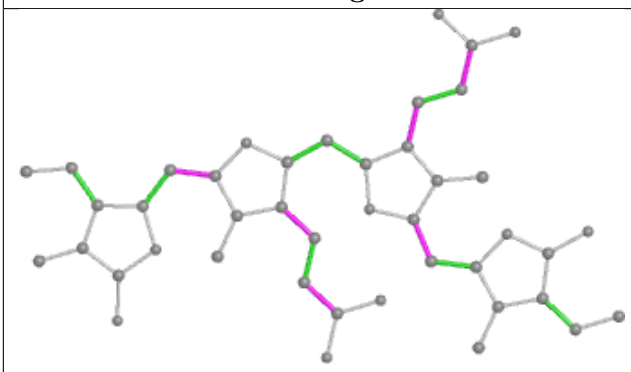


Bond angles



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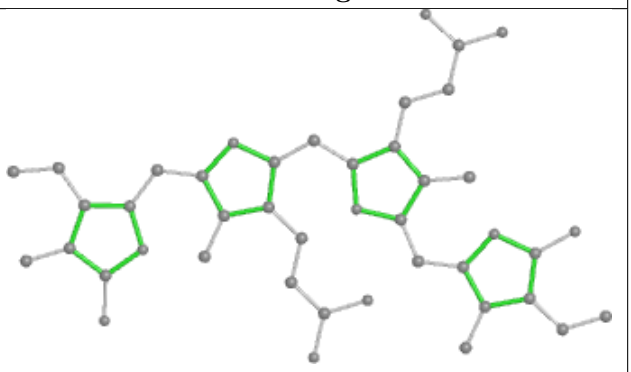
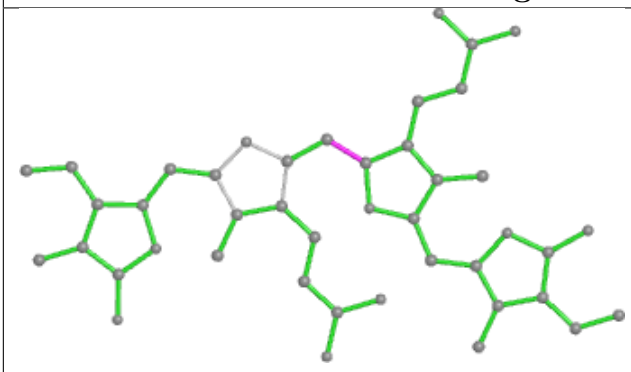


Rings

Ligand CYC T1 201



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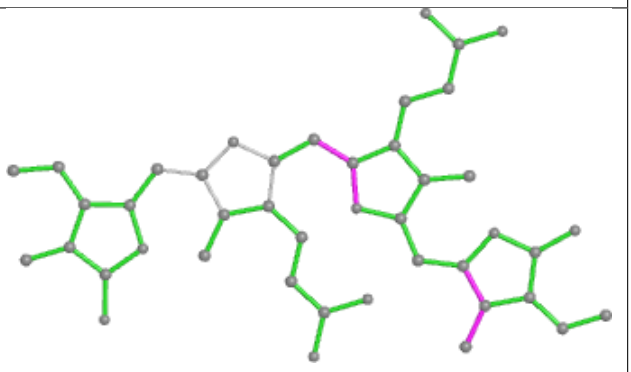
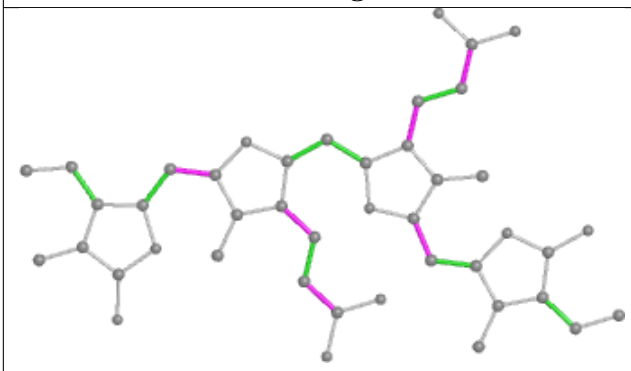


Bond angles



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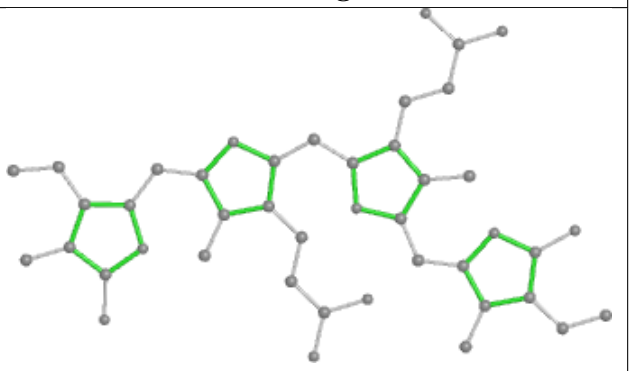
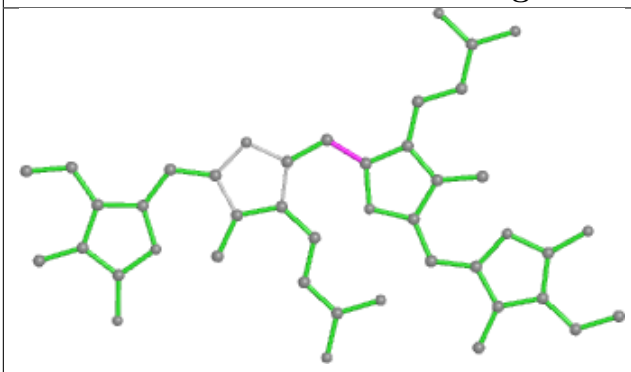


Rings

Ligand CYC G1 201



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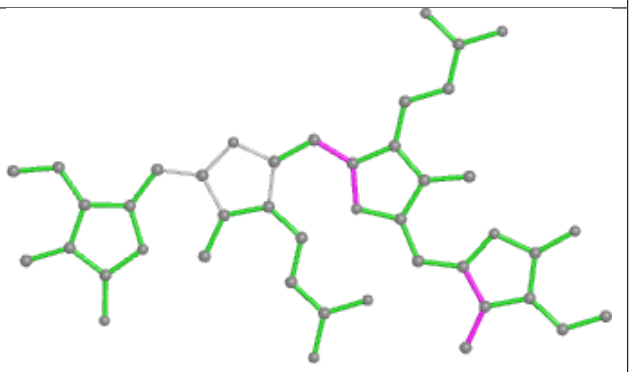
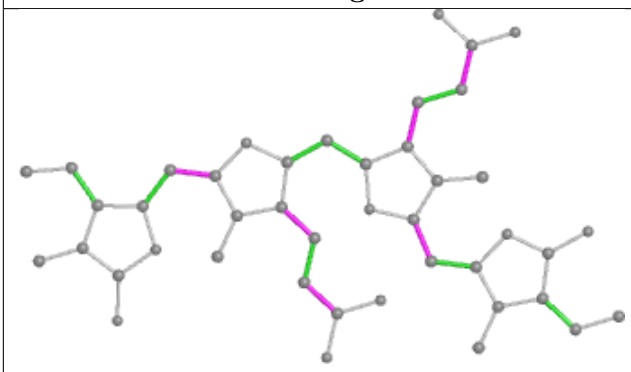


Bond angles



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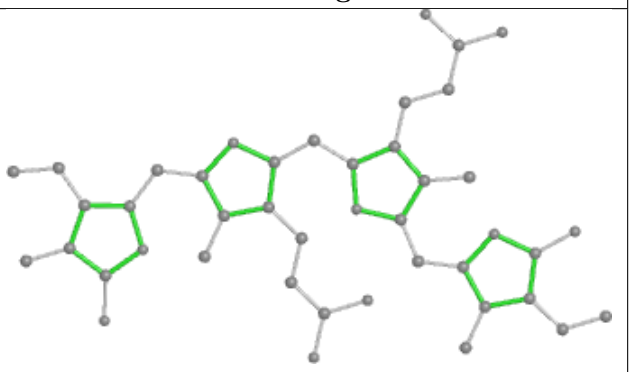
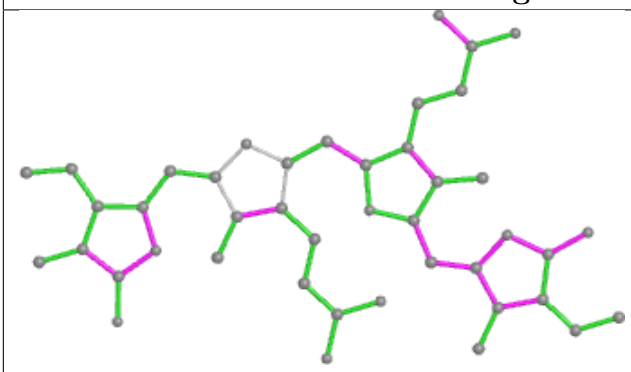


Rings

Ligand CYC A7 301



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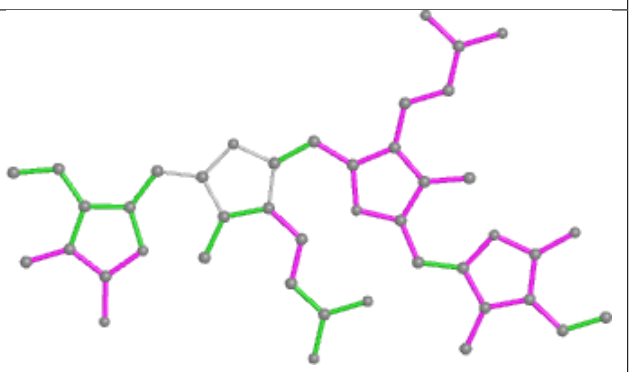

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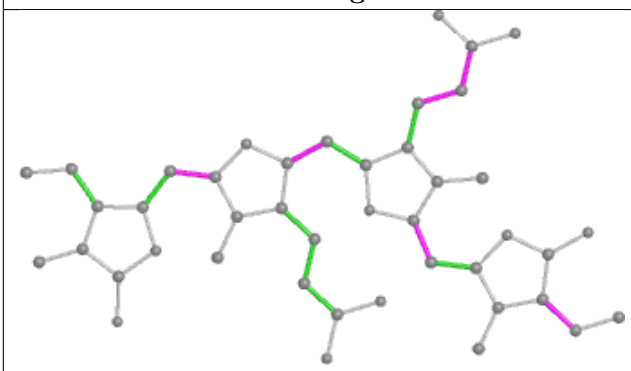

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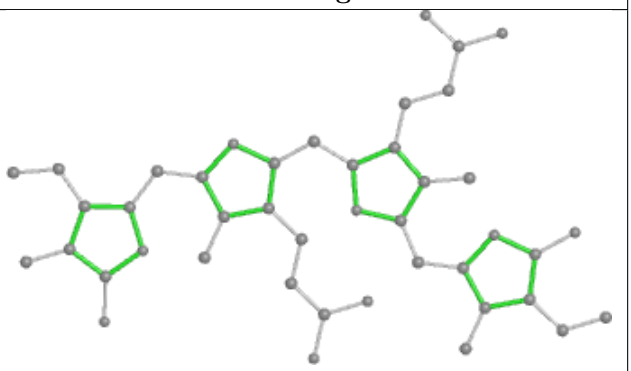
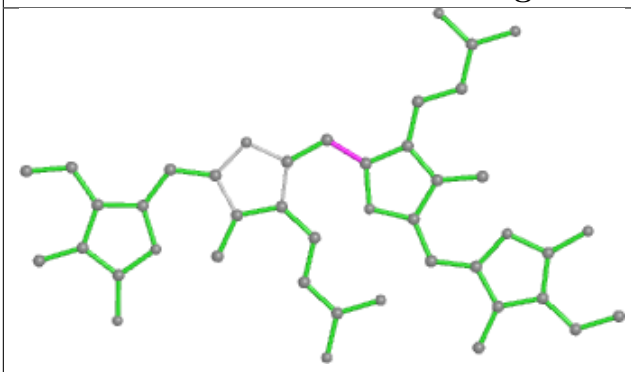


Rings

Ligand CYC E3 202



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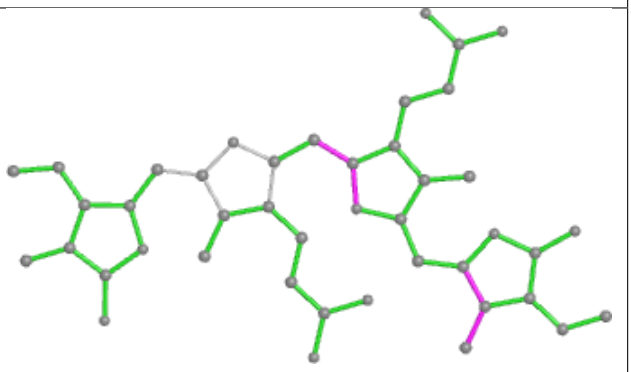
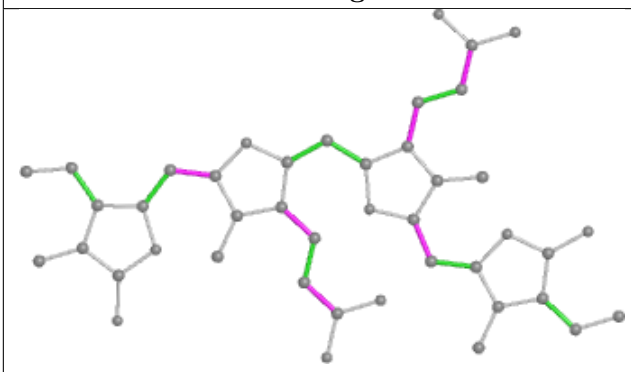


Bond angles



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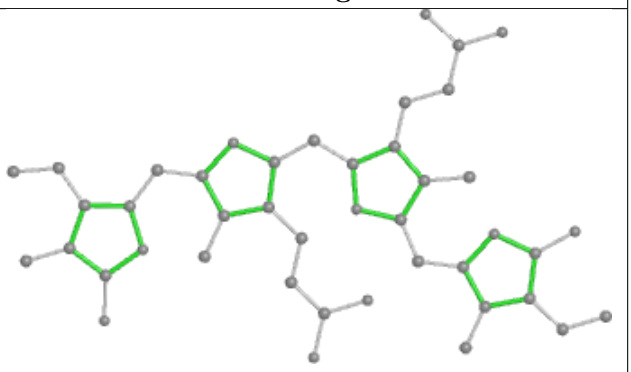
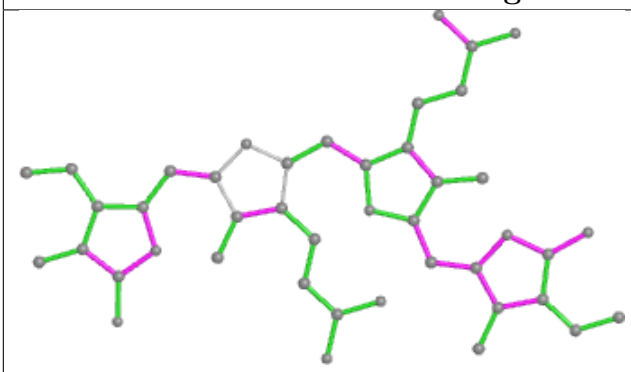


Rings

Ligand CYC R6 1001



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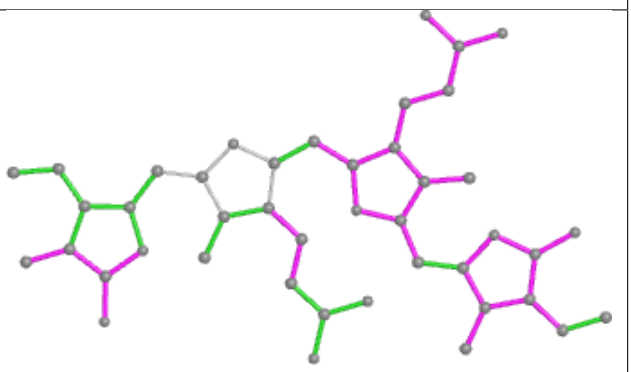
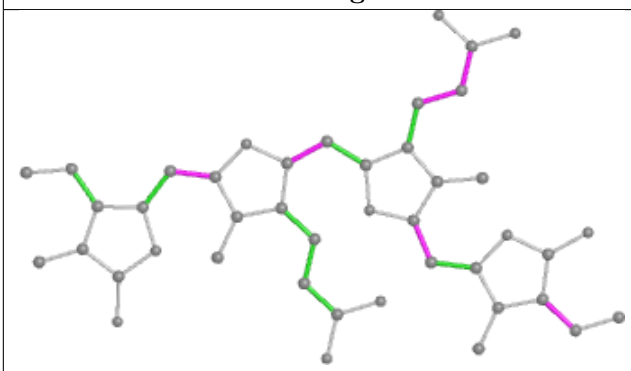
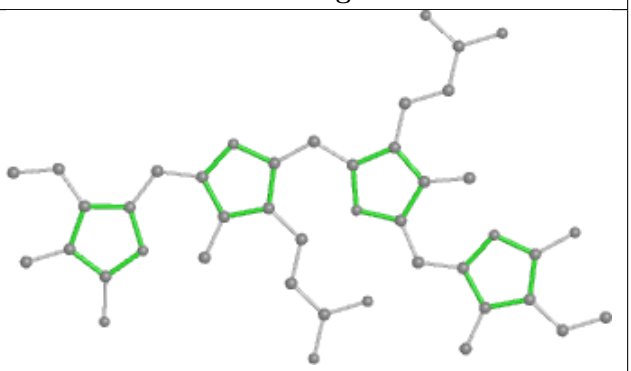


Bond angles

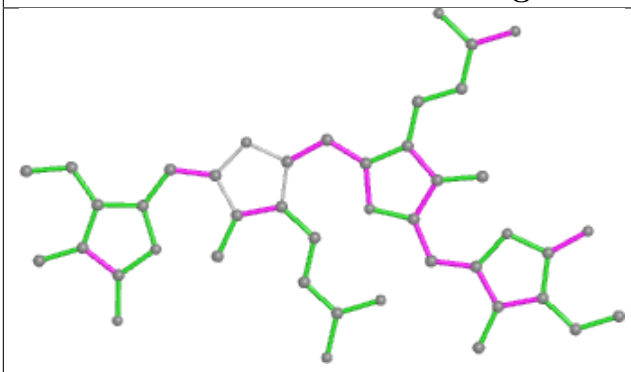


Torsions



Rings

Ligand CYC X4 201



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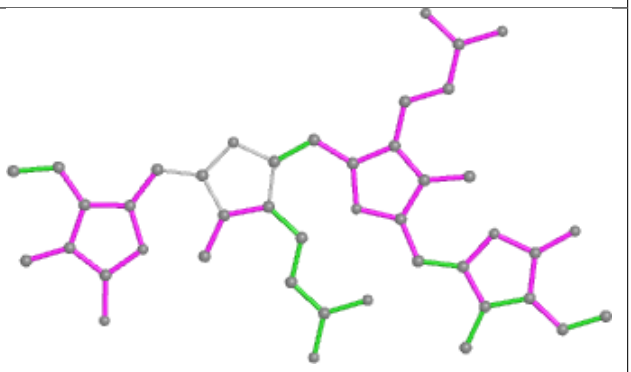
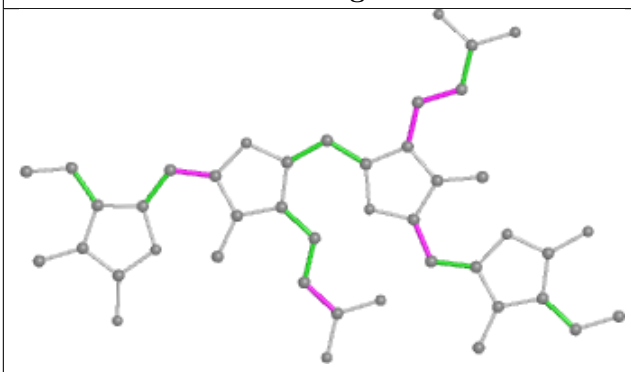
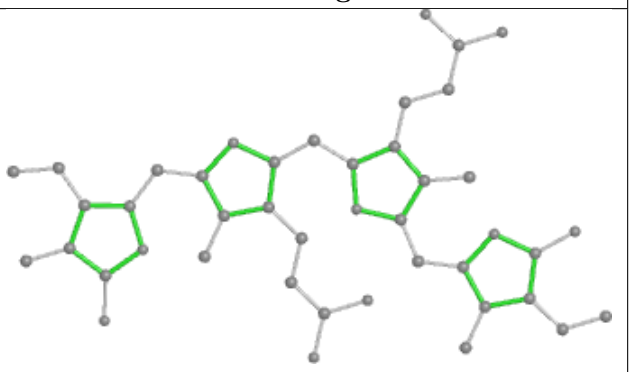


Bond angles

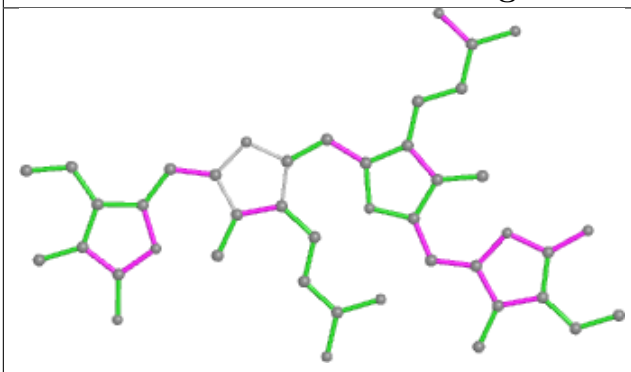


Torsions



Rings

Ligand CYC UA 1001



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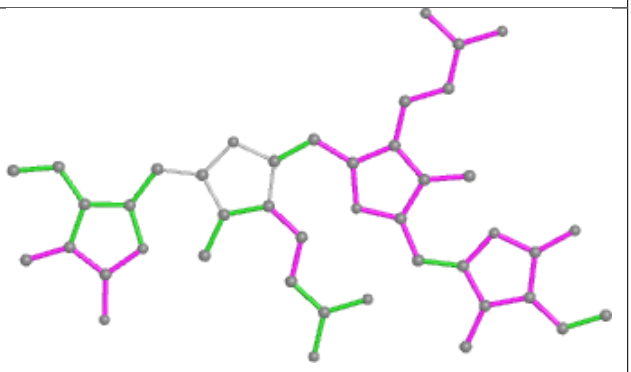
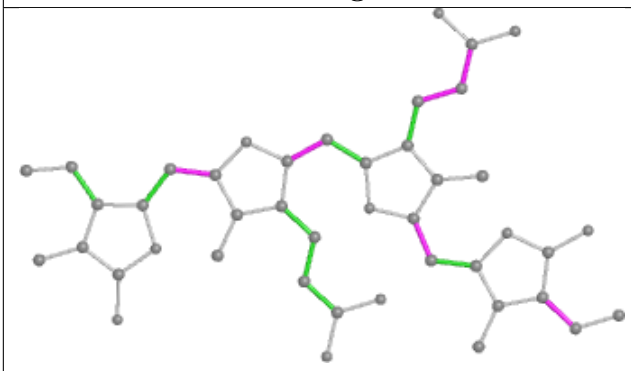


Bond angles



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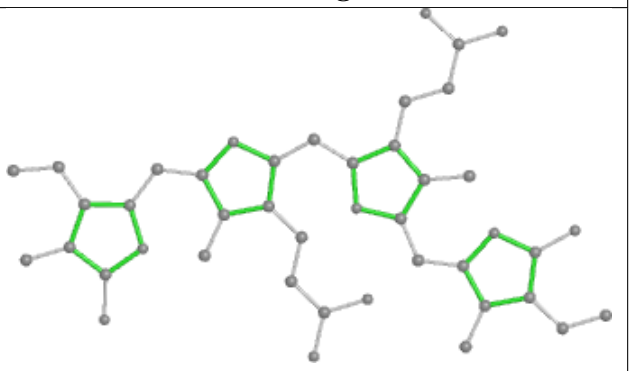
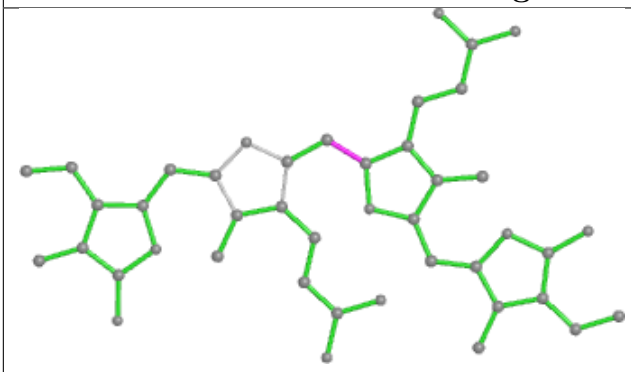


Rings

Ligand CYC V5 202



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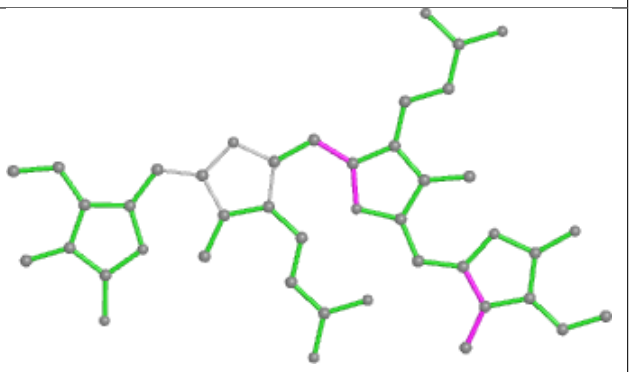
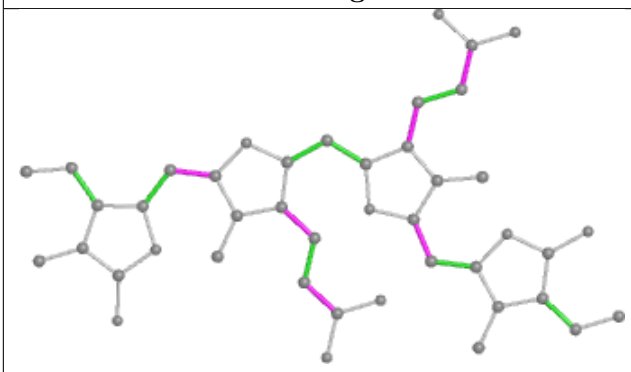


Bond angles



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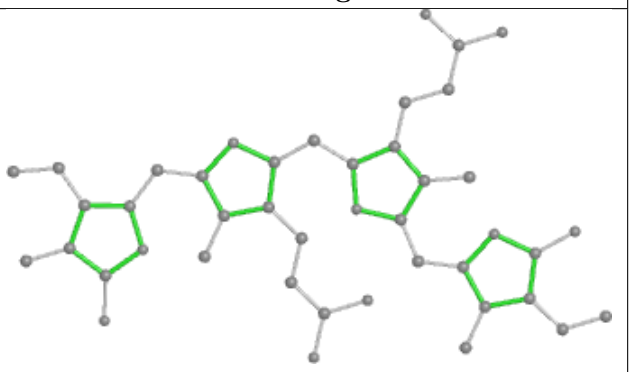
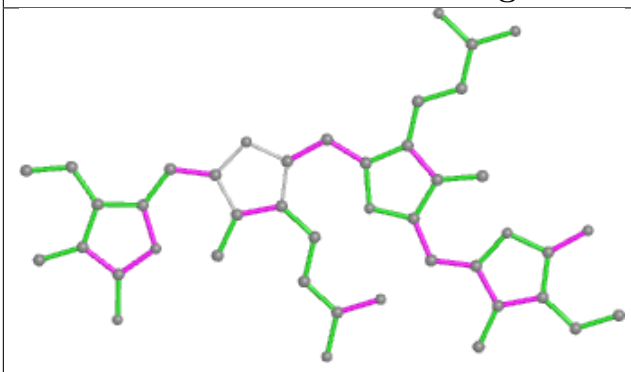


Rings

Ligand CYC W8 1001



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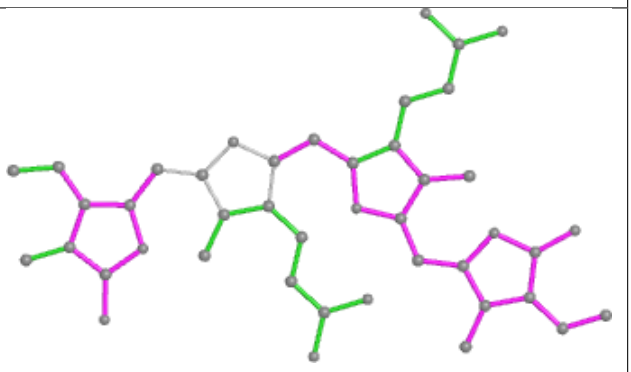
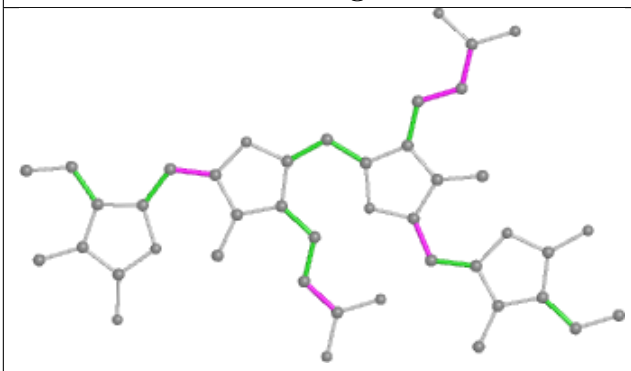


Bond angles



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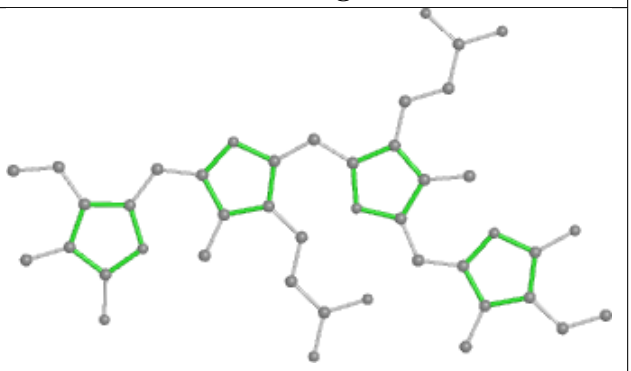
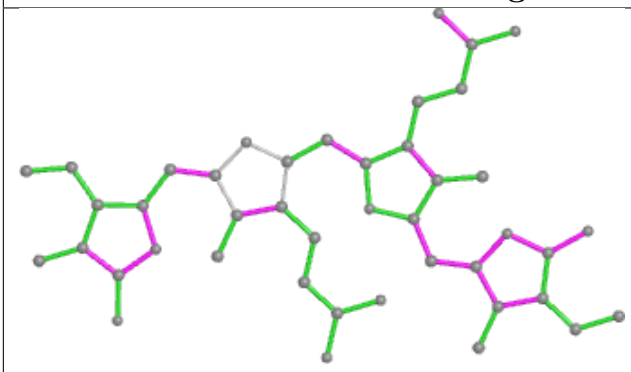


Rings

Ligand CYC J3 1001



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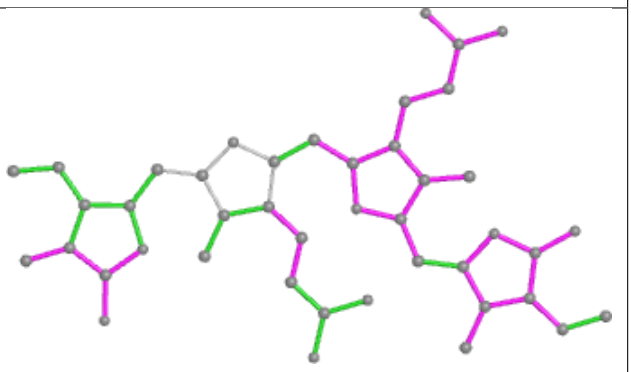
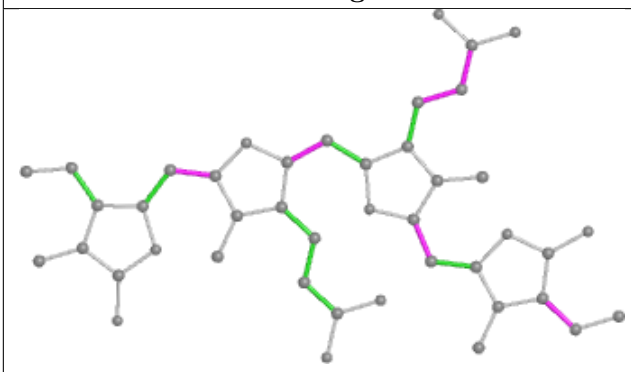
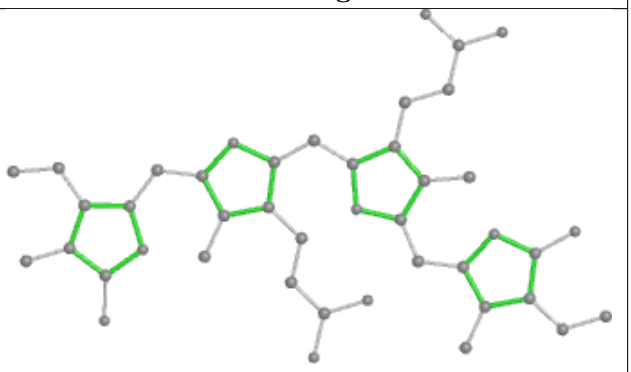


Bond angles

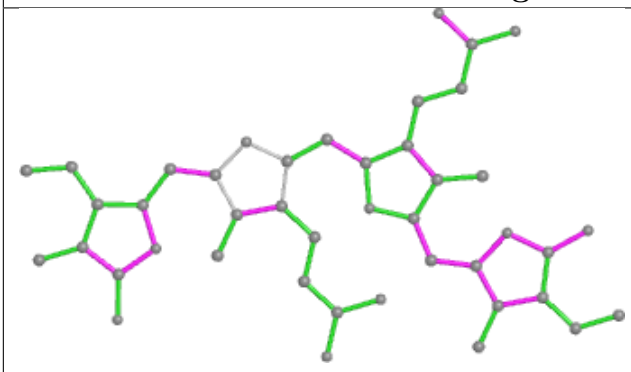


Torsions

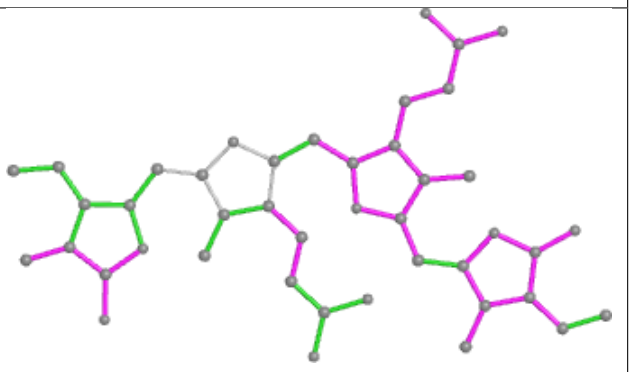


Rings

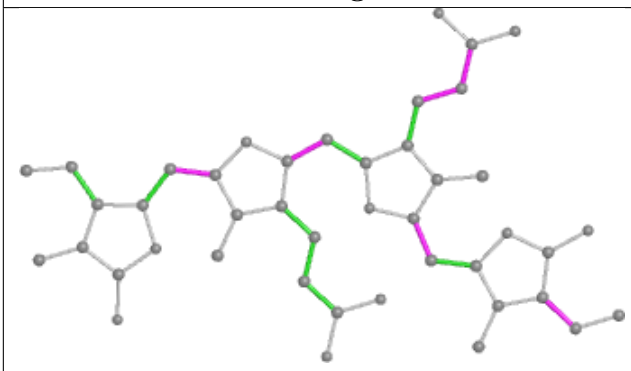
Ligand CYC G7 201



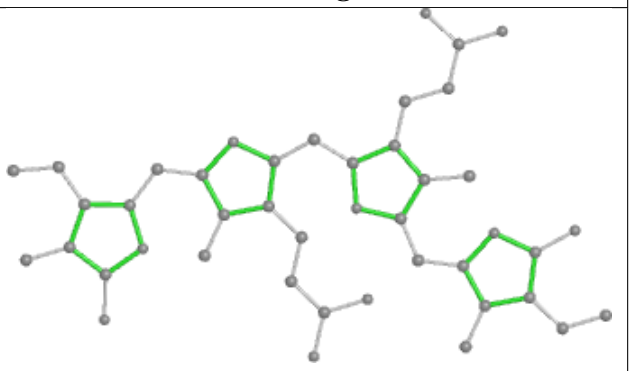
Bond lengths



Bond angles

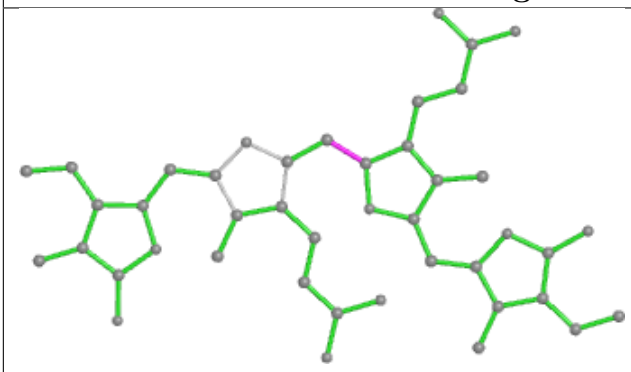


Torsions



Rings

Ligand CYC C2 202



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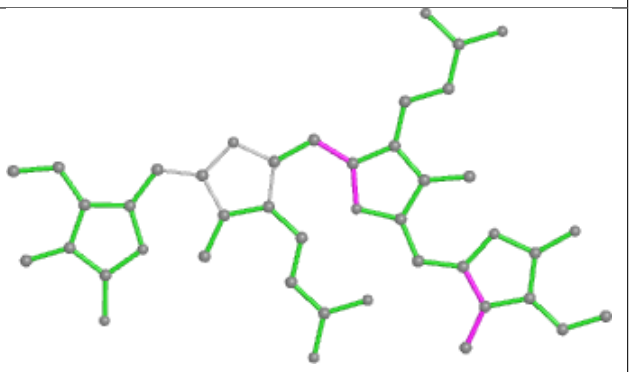

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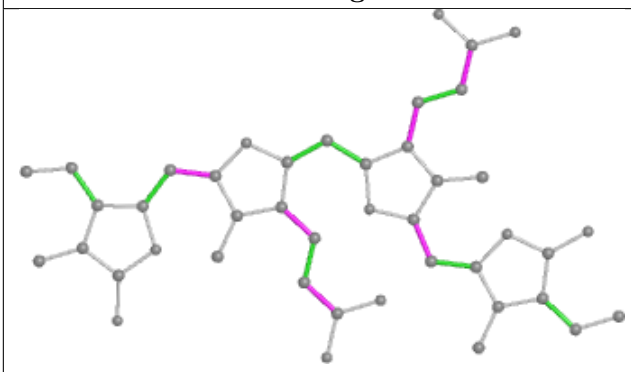

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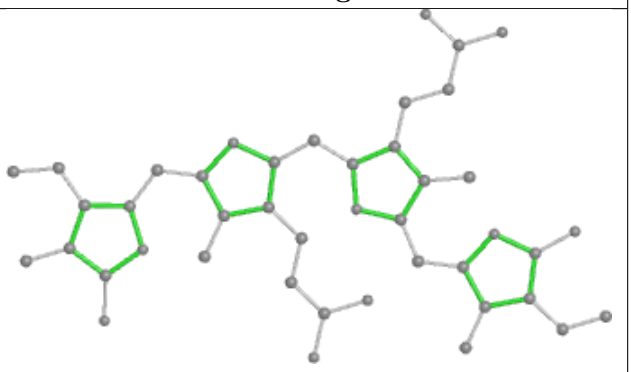
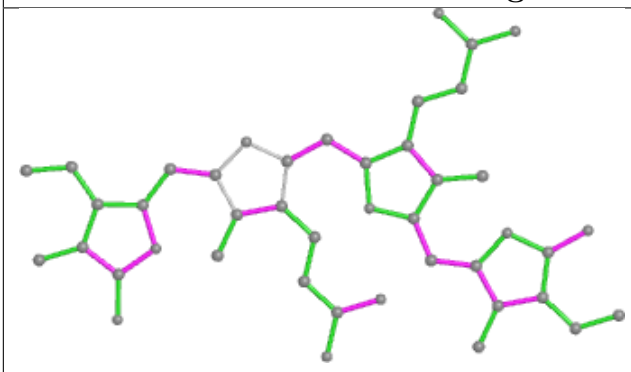


Rings

Ligand CYC d8 1001



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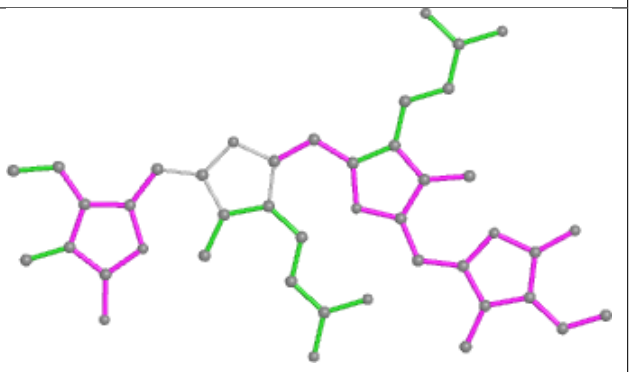

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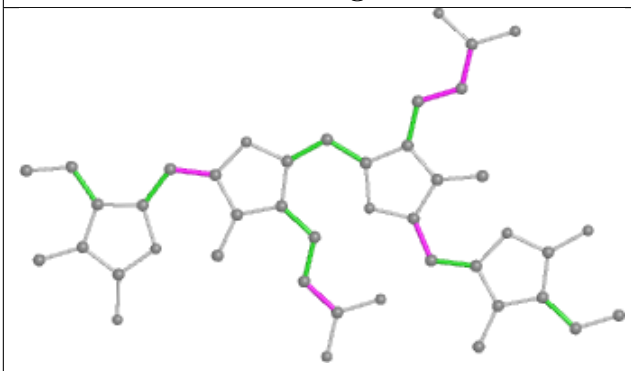

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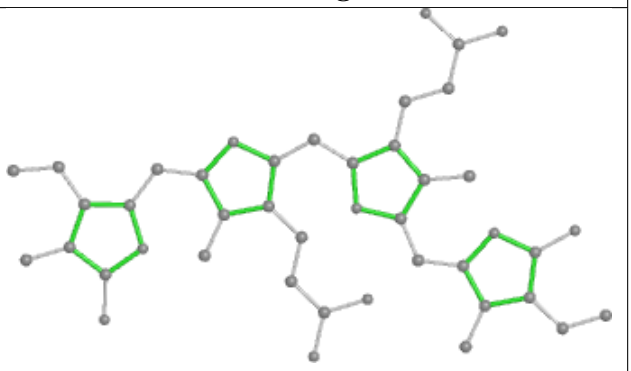
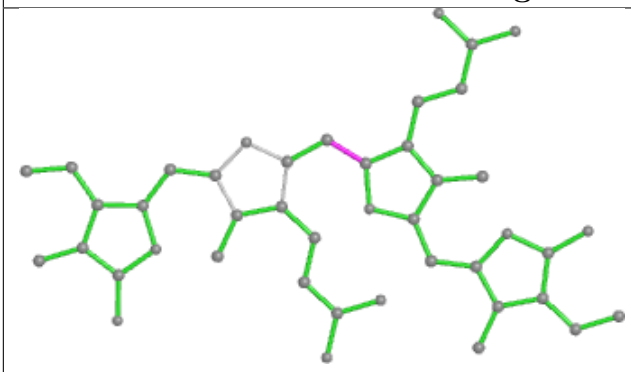


Rings

Ligand CYC P4 201



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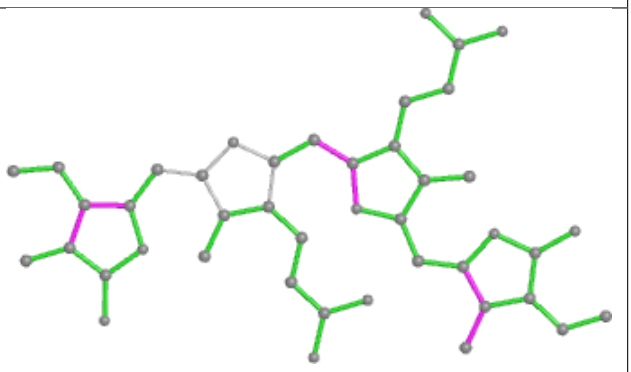

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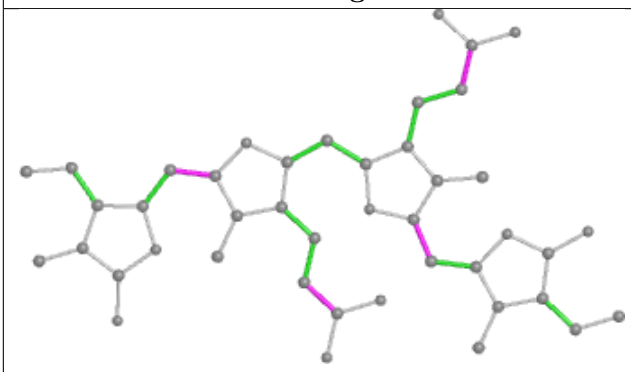

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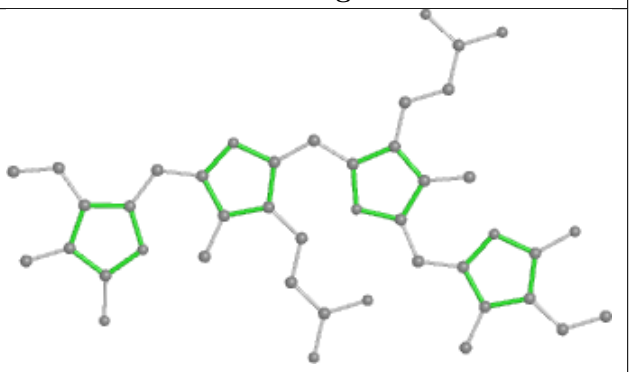
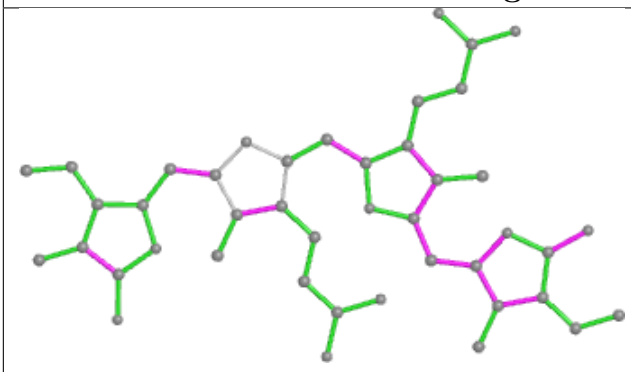


Rings

Ligand CYC A8 1001



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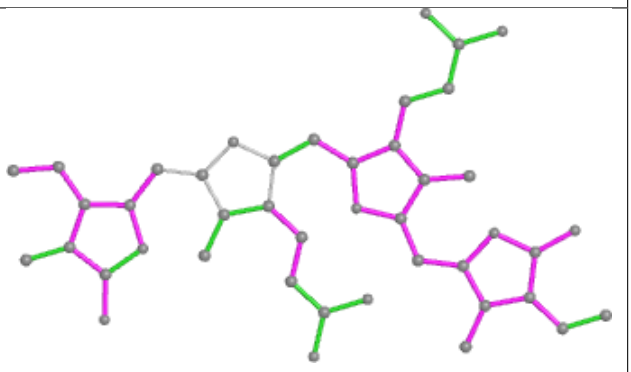

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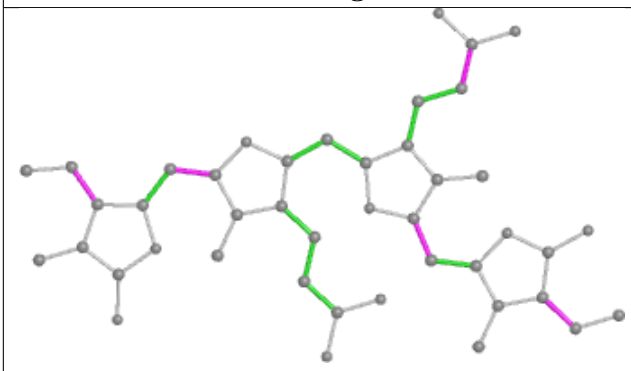

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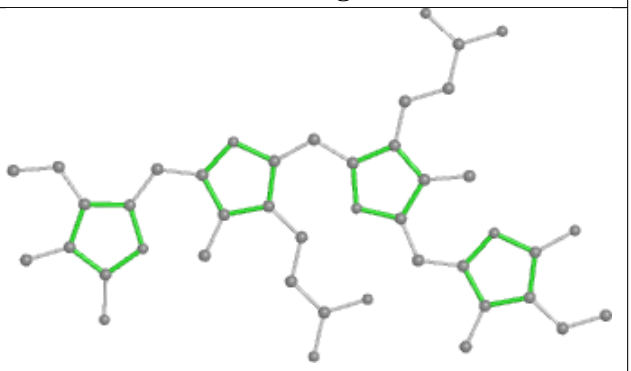
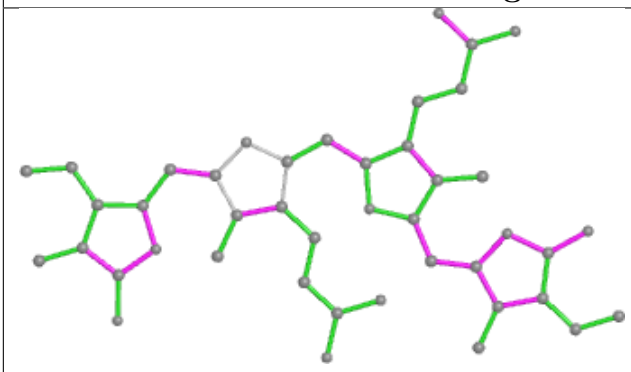


Rings

Ligand CYC O2 1001



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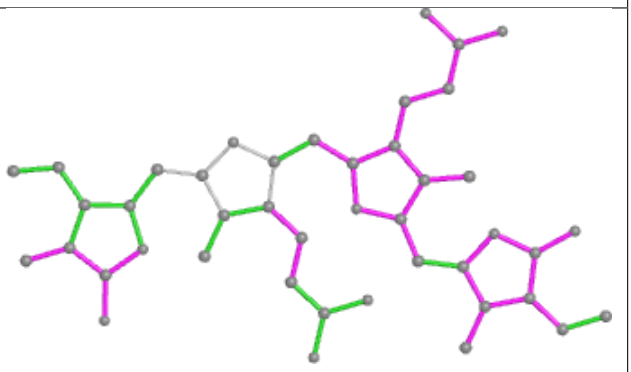

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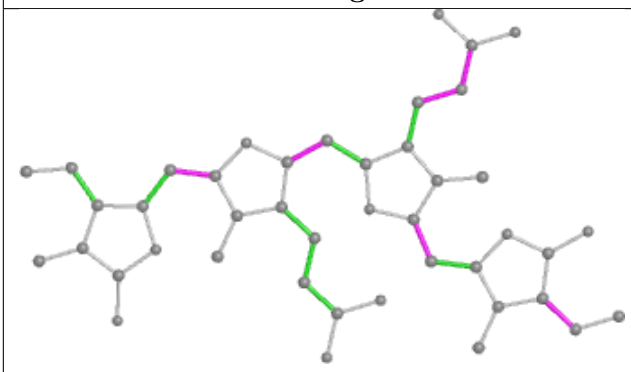

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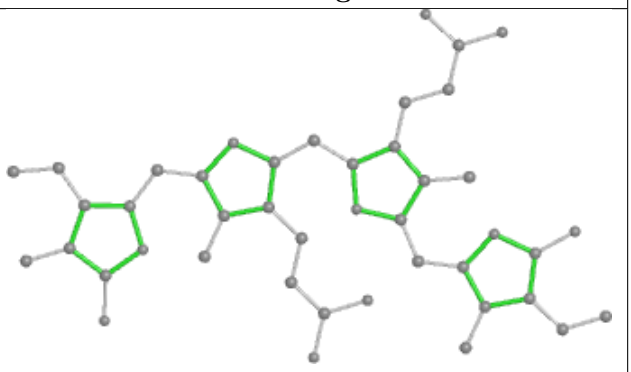
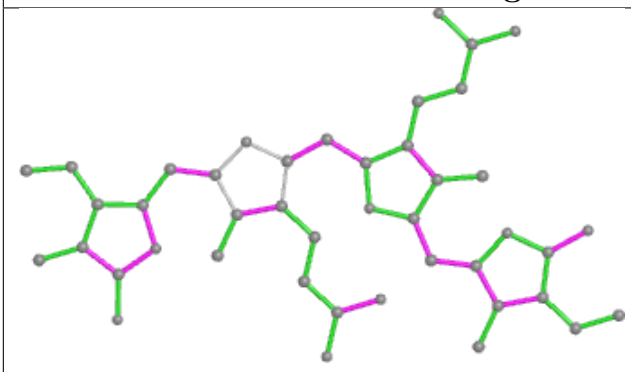


Rings

Ligand CYC R8 1001



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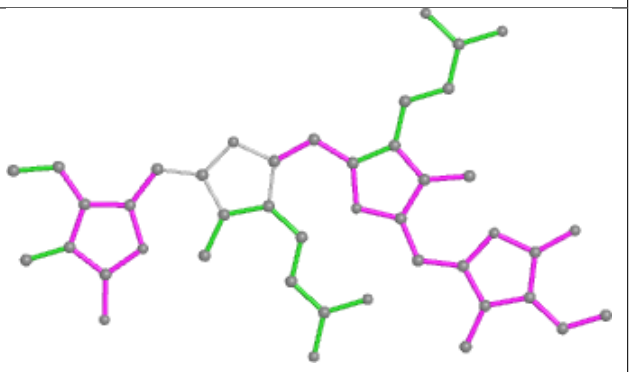
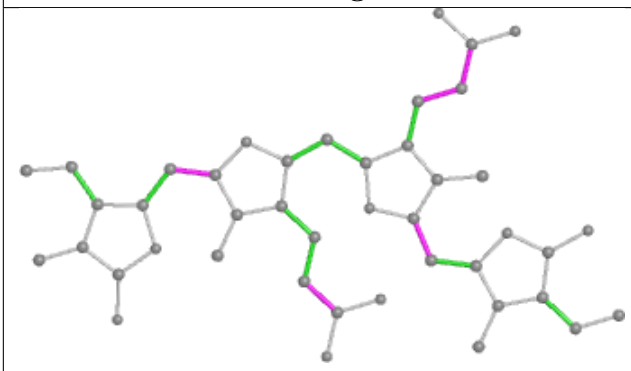


Bond angles



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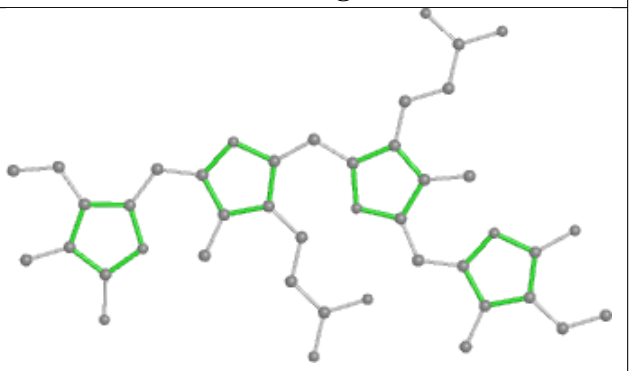
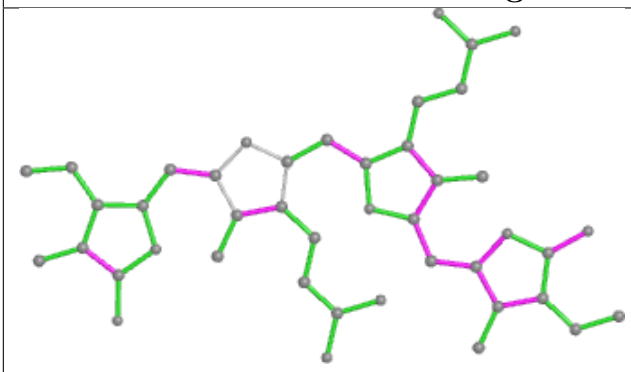


Rings

Ligand CYC Z8 1001



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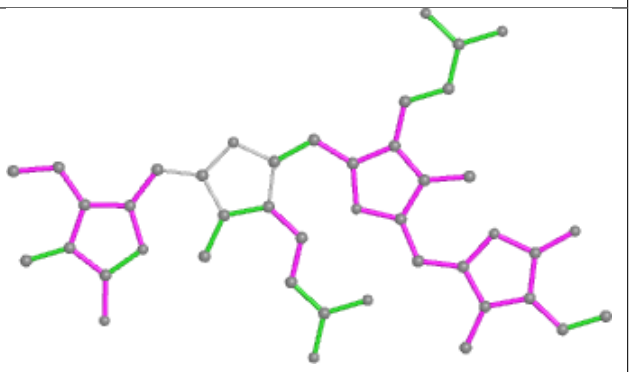

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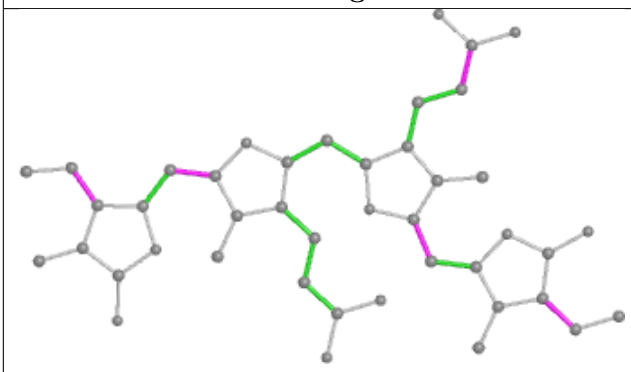

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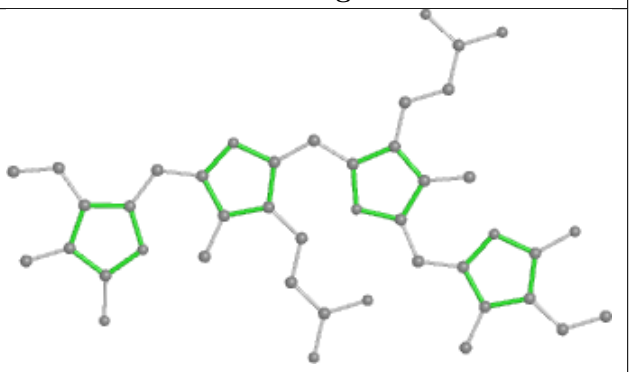
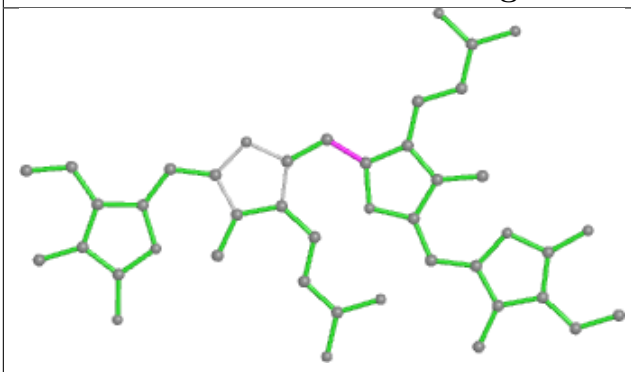


Rings

Ligand CYC M5 1002



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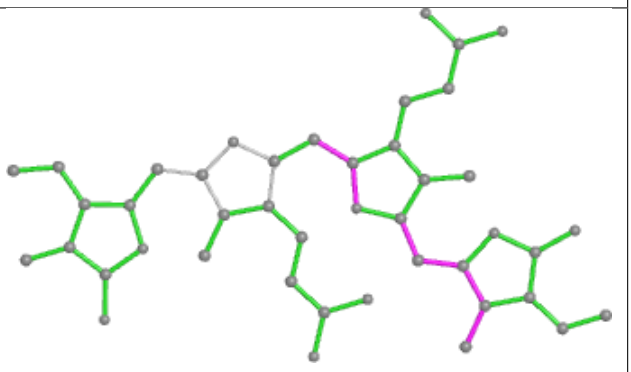

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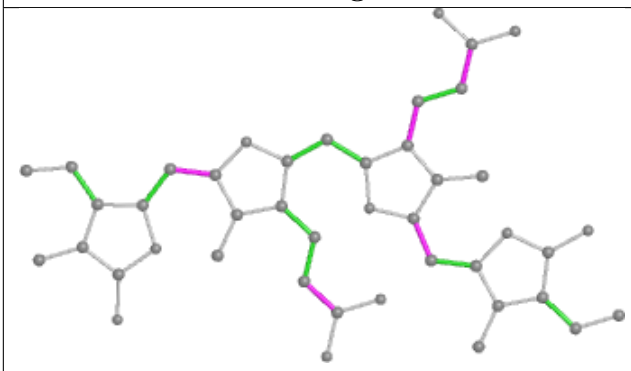

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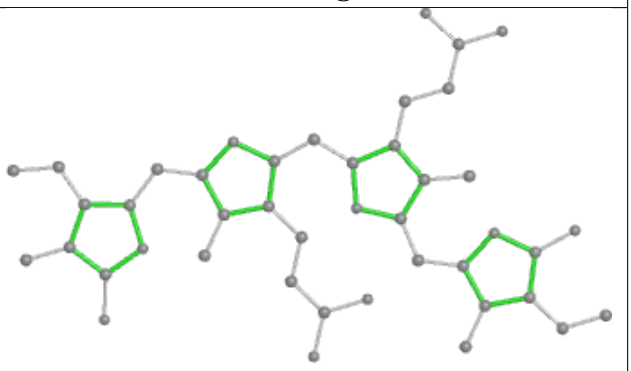
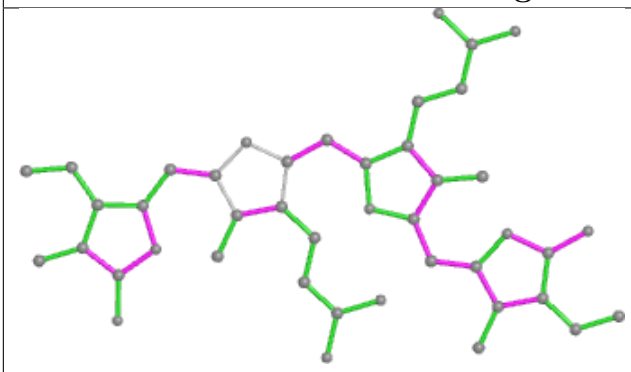


Rings

Ligand CYC E2 201



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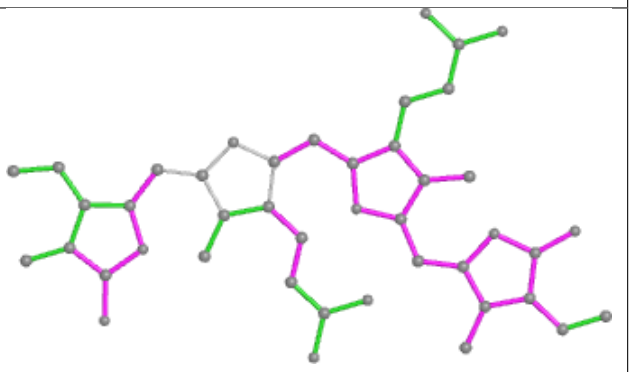

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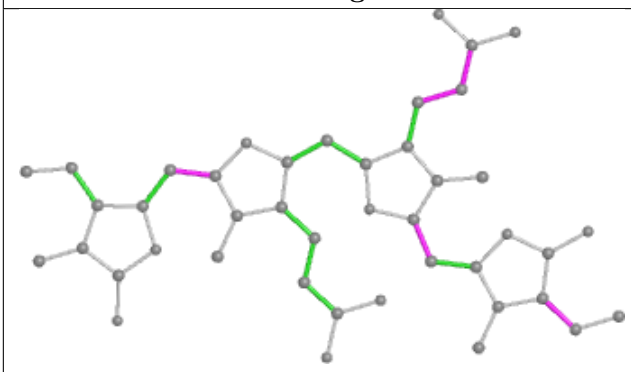

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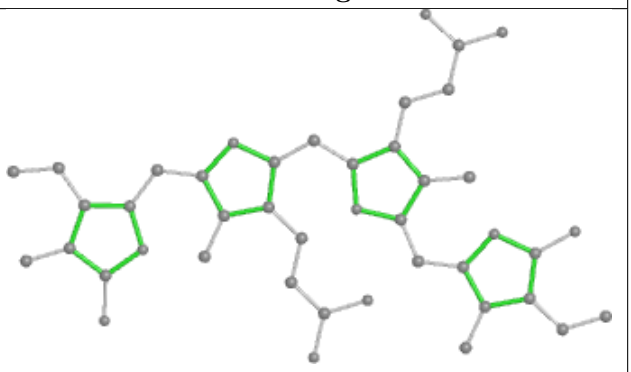
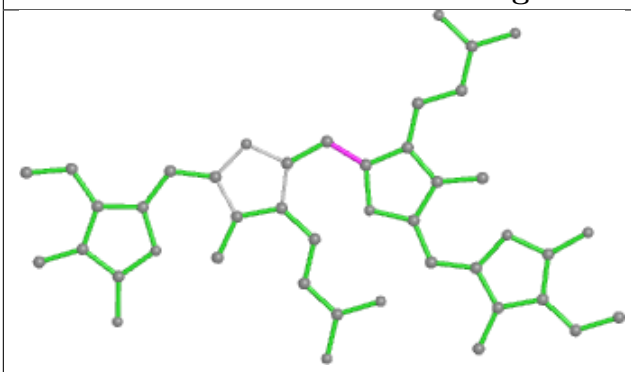


Rings

Ligand CYC K4 202



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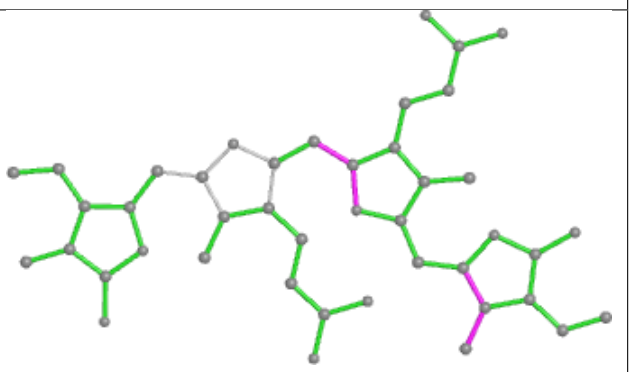

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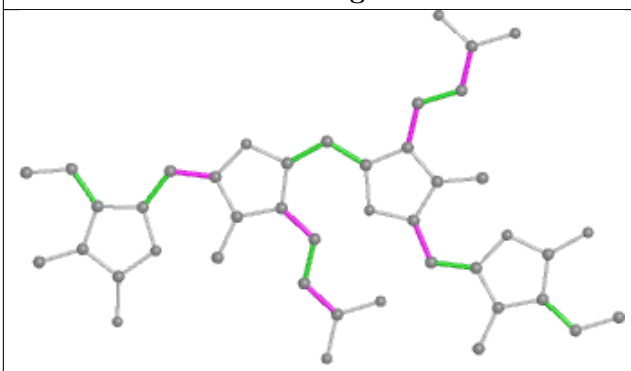

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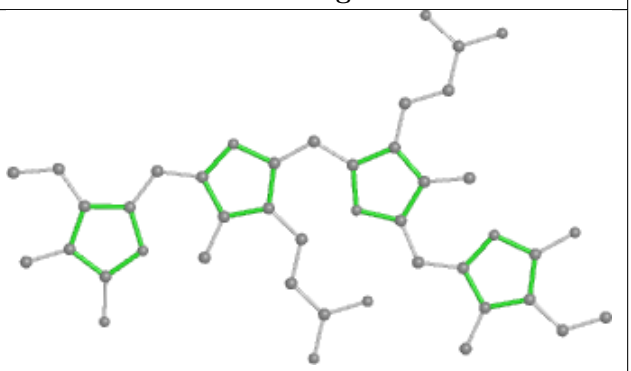
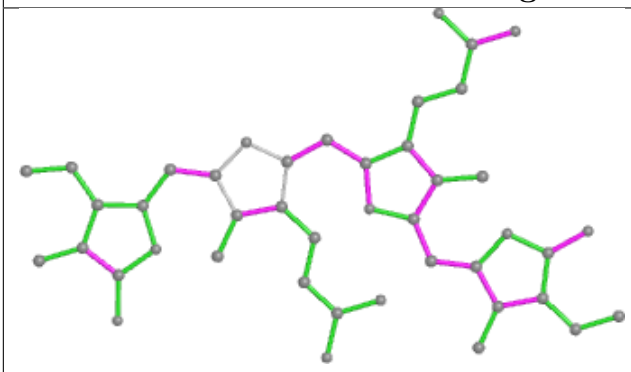


Rings

Ligand CYC I7 201



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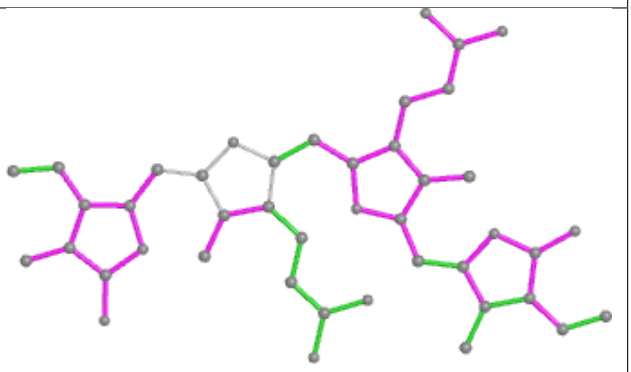
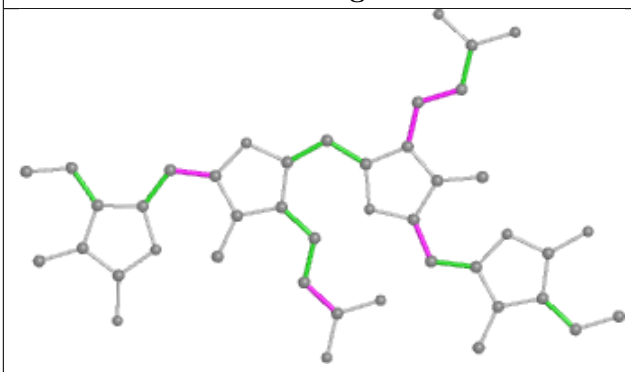


Bond angles



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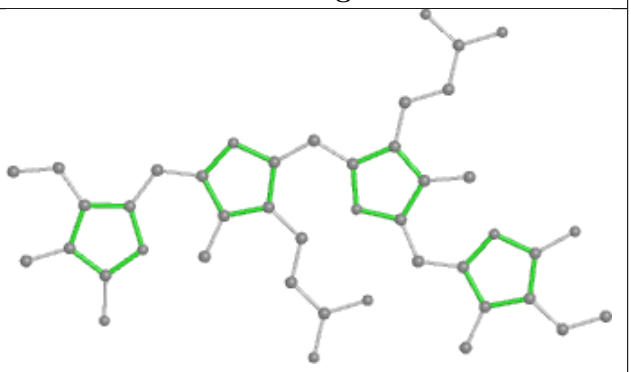
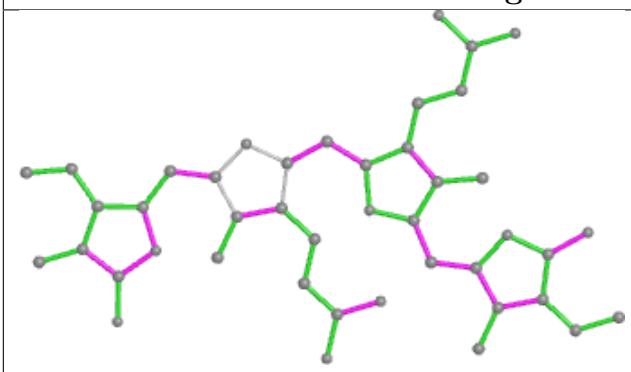


Rings

Ligand CYC P8 1001



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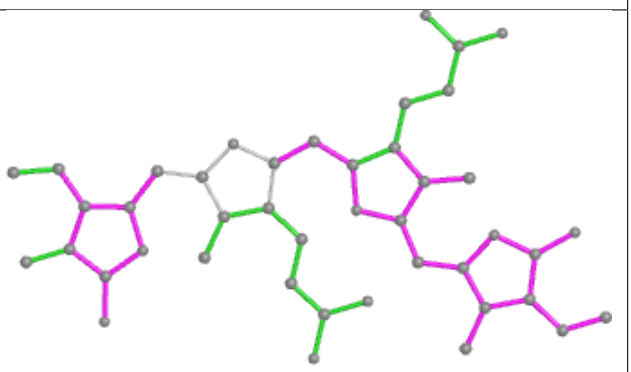
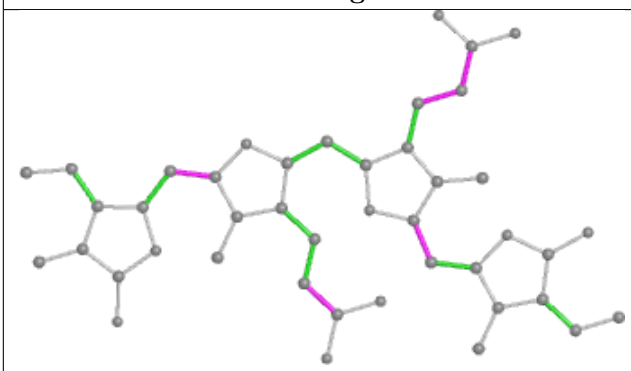
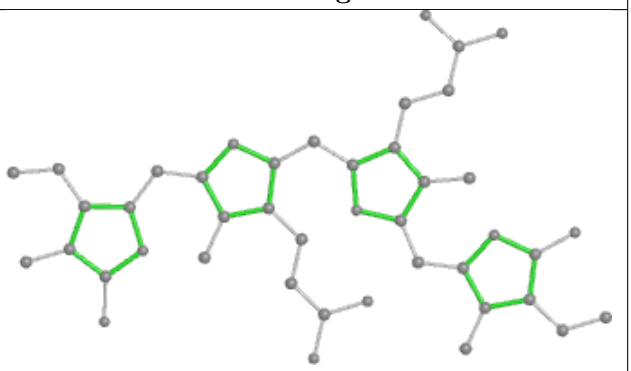


Bond angles

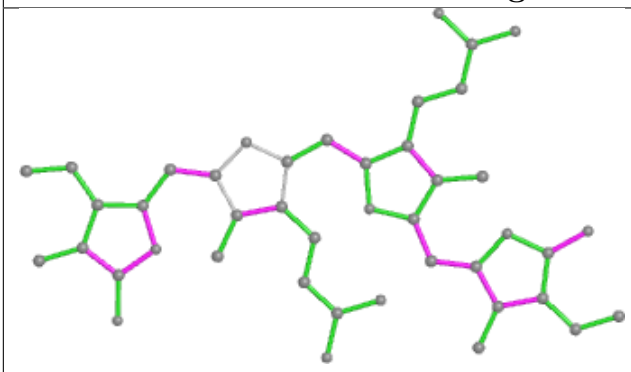


Torsions



Rings

Ligand CYC 19 1204



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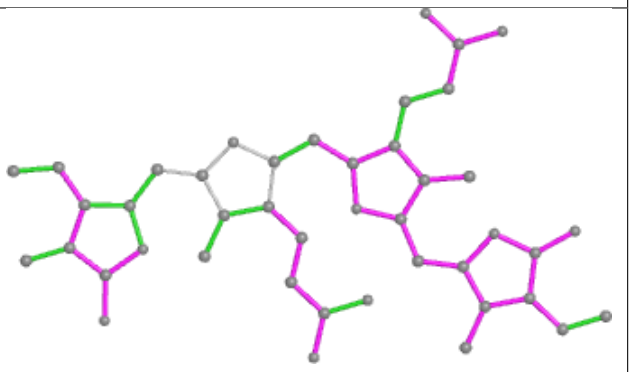
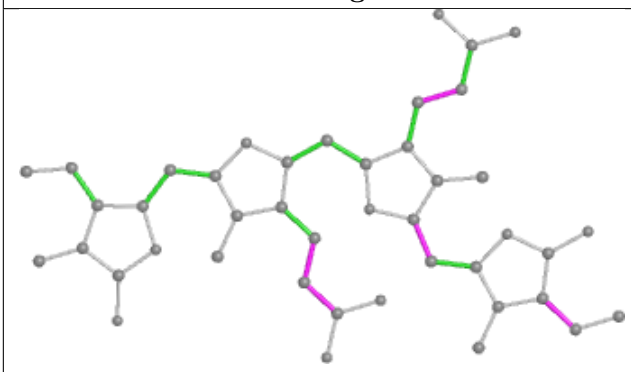


Bond angles



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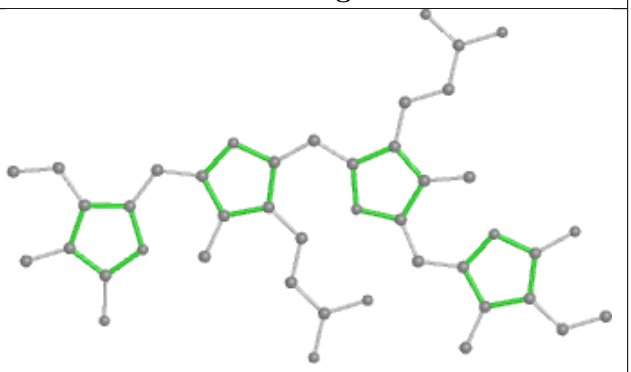
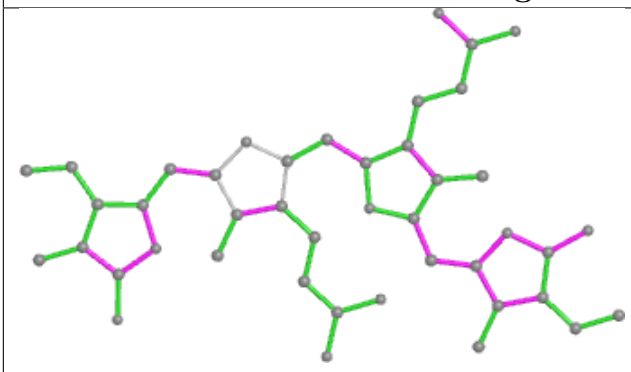
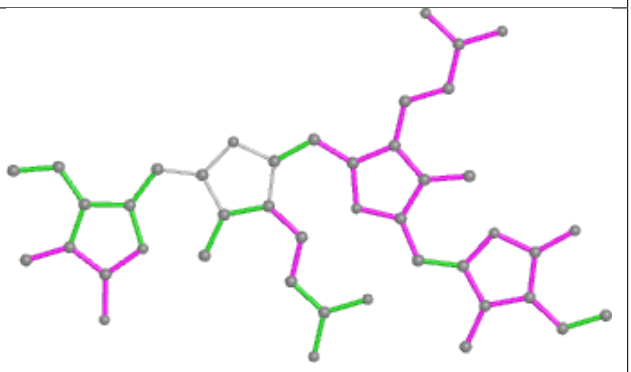


Rings

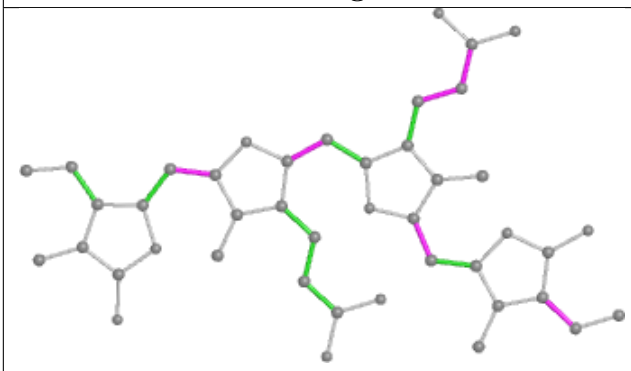
Ligand CYC E5 202



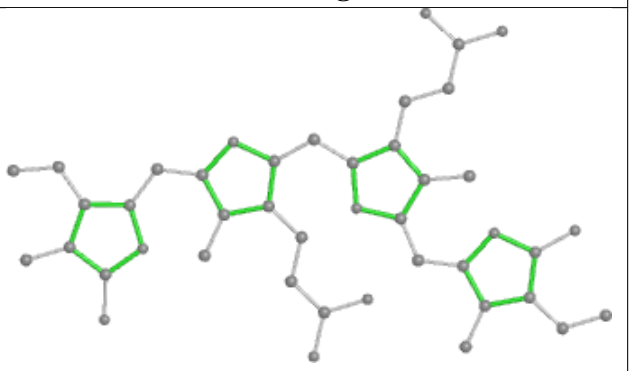
Bond lengths



Bond angles

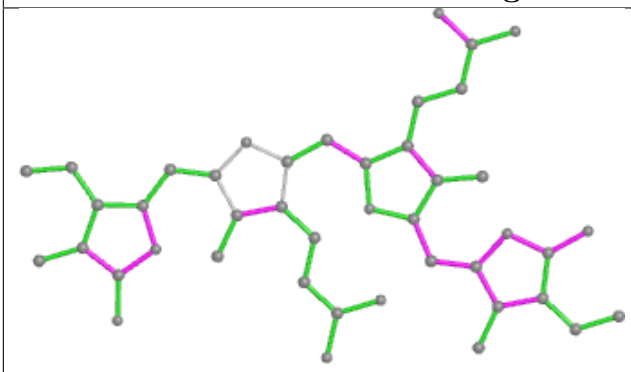


Torsions



Rings

Ligand CYC H2 1001



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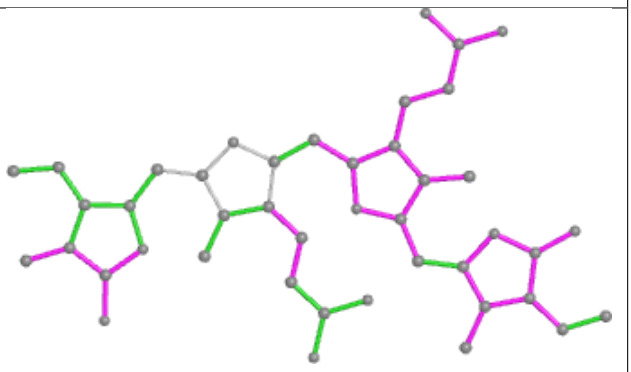

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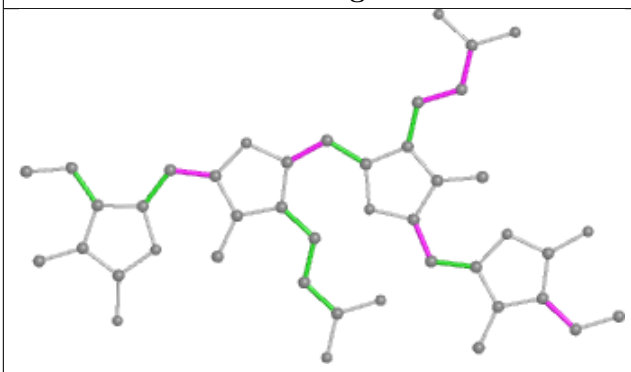

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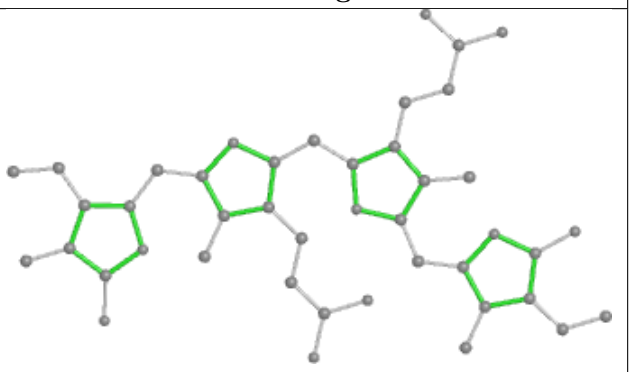
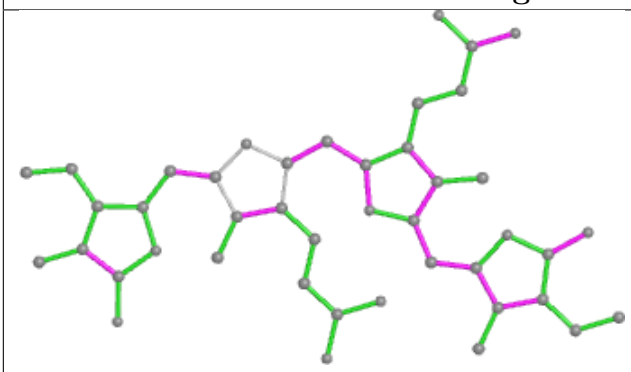


Rings

Ligand CYC X1 201



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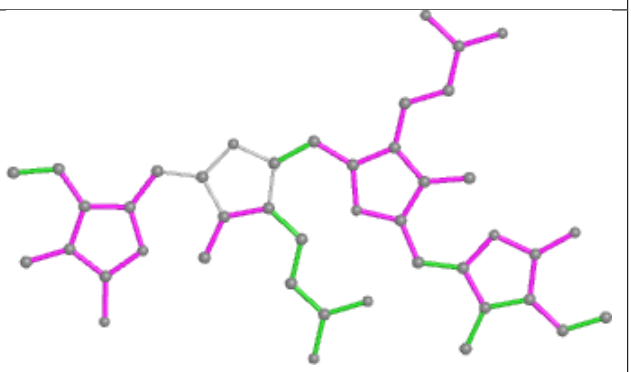

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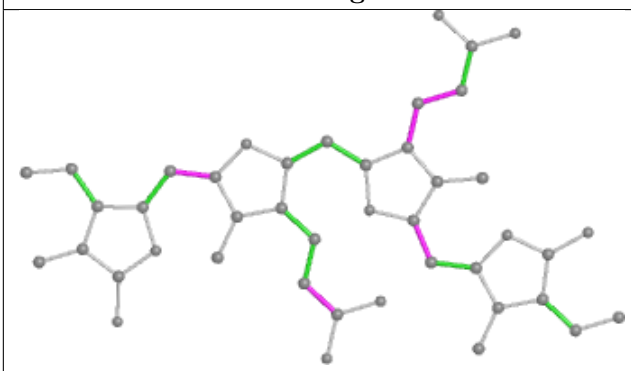

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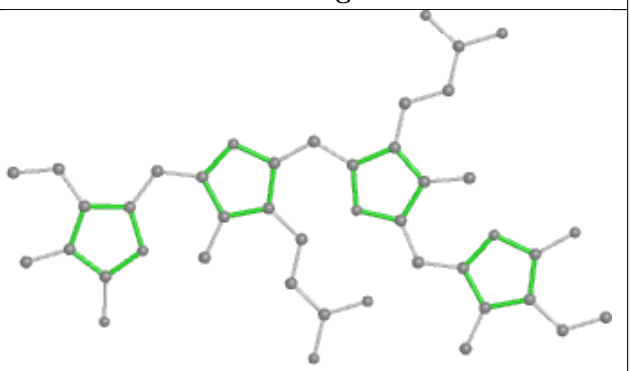
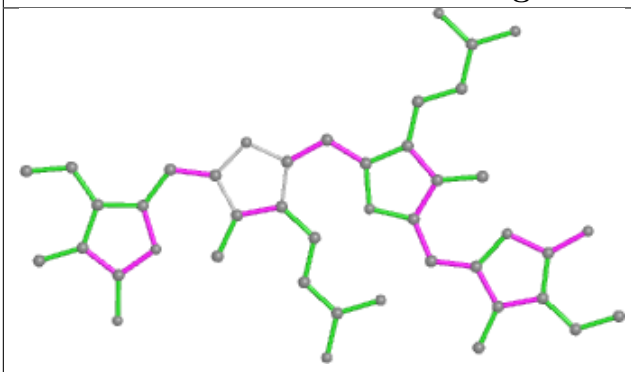


Rings

Ligand CYC A5 302



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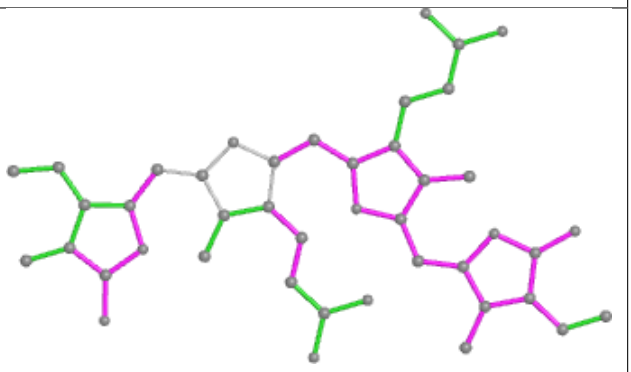

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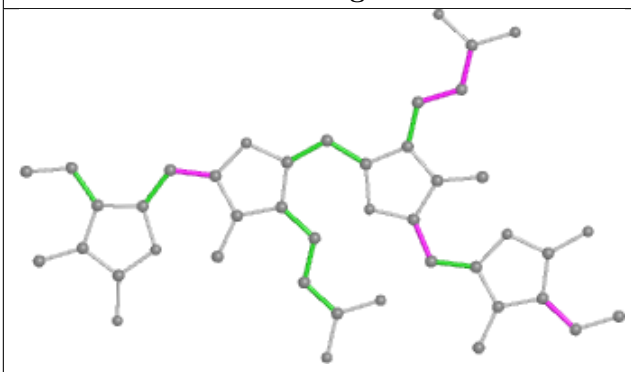

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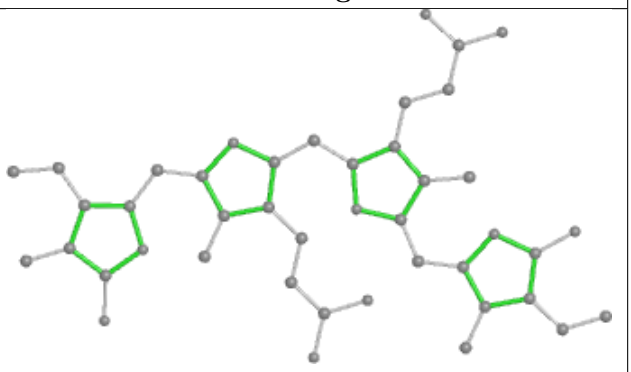
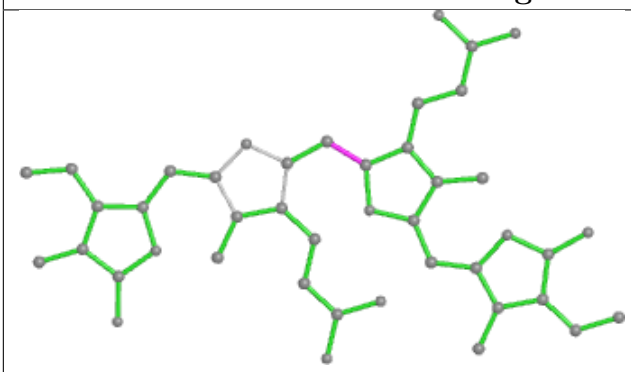


Rings

Ligand CYC IA 202



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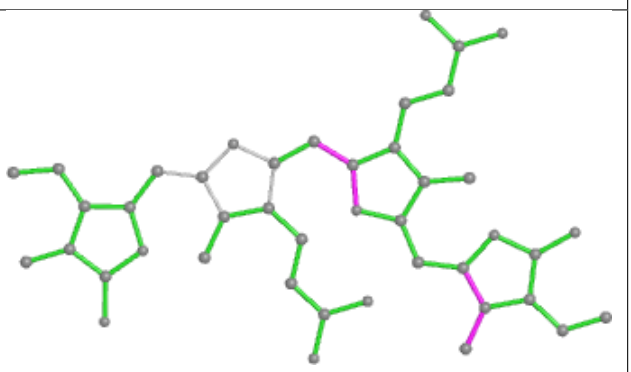

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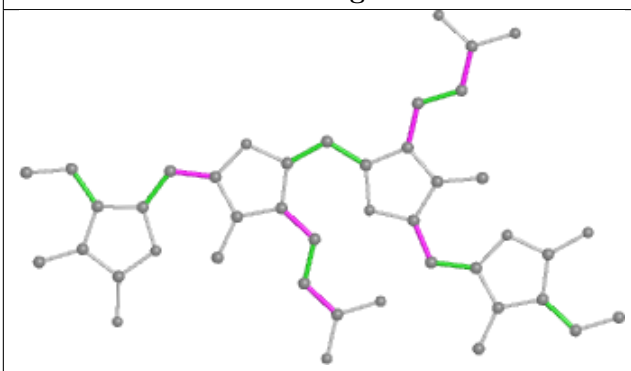

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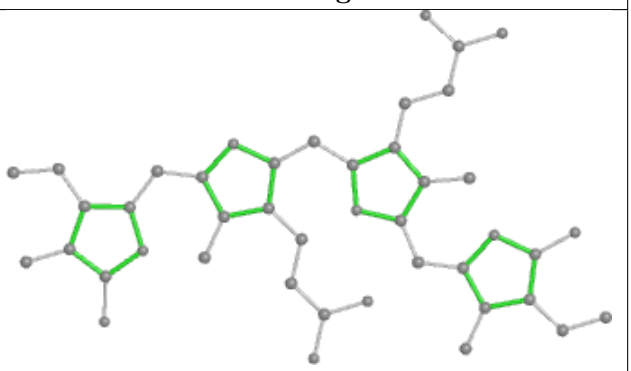
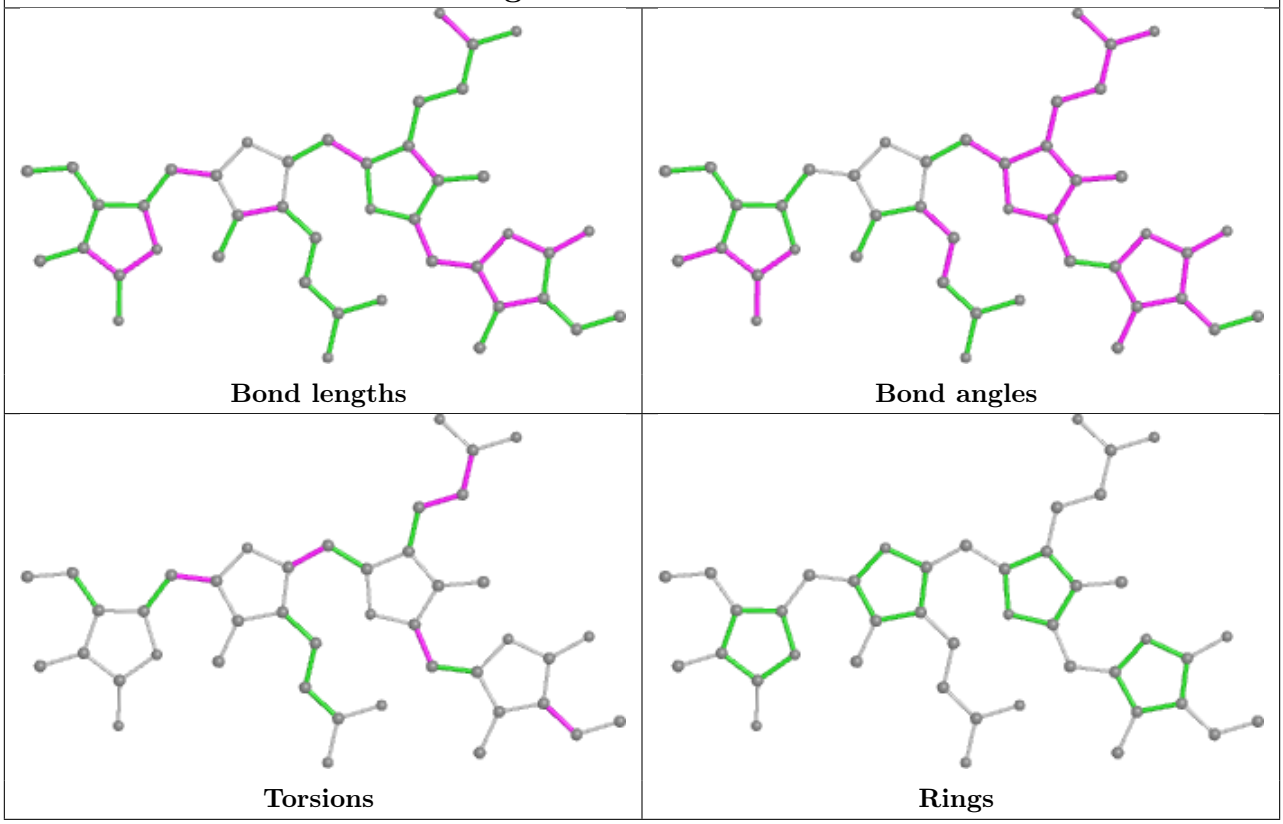


Rings

Ligand CYC D2 1001



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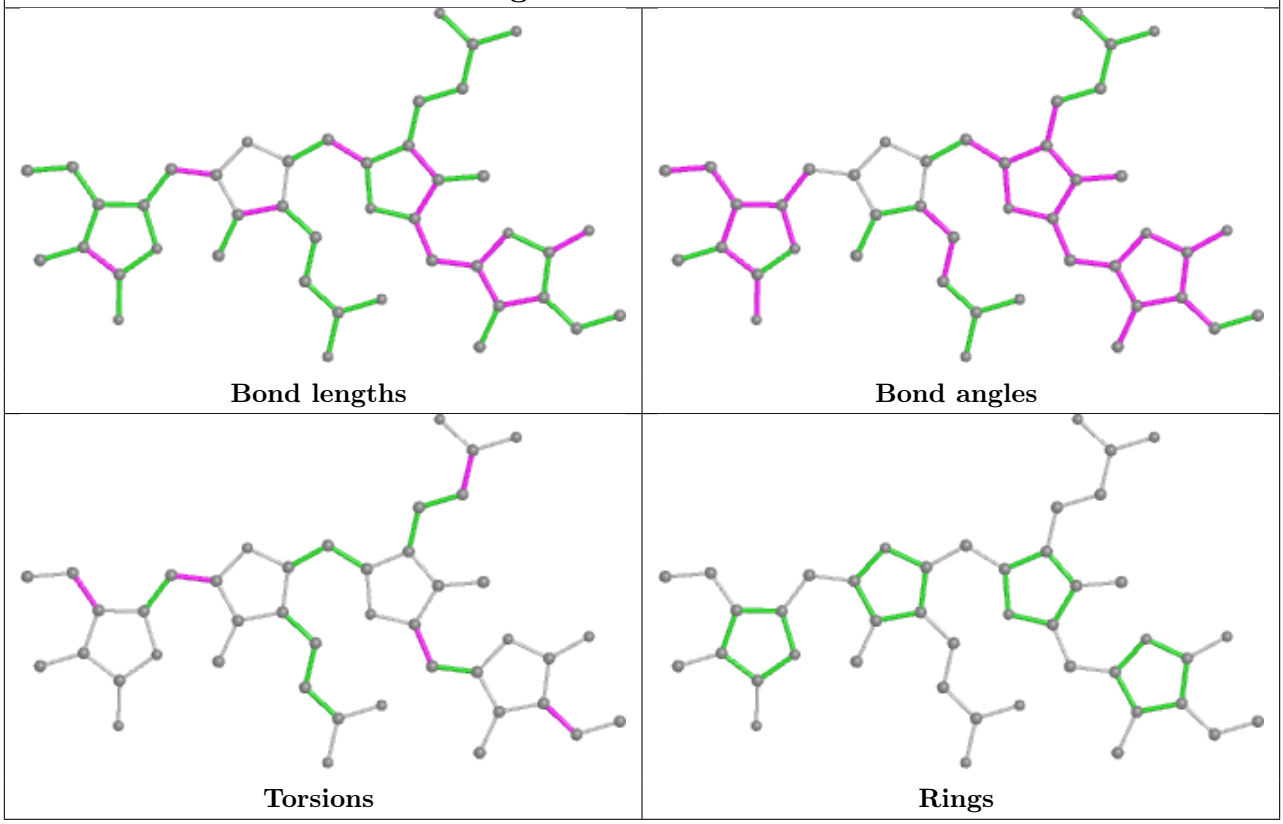

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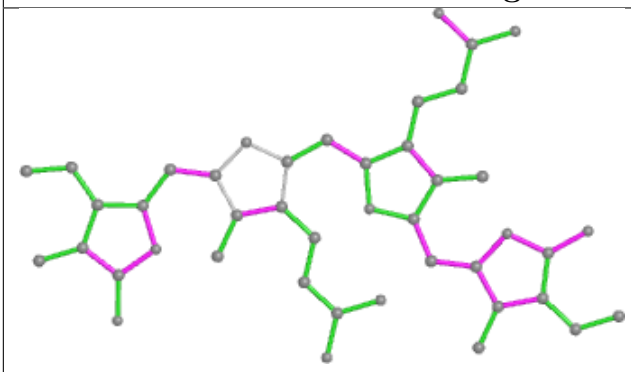

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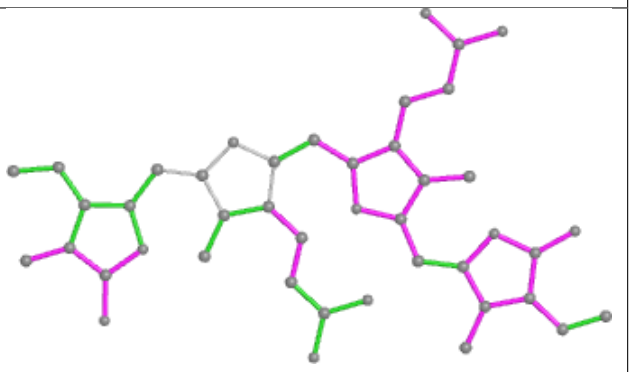

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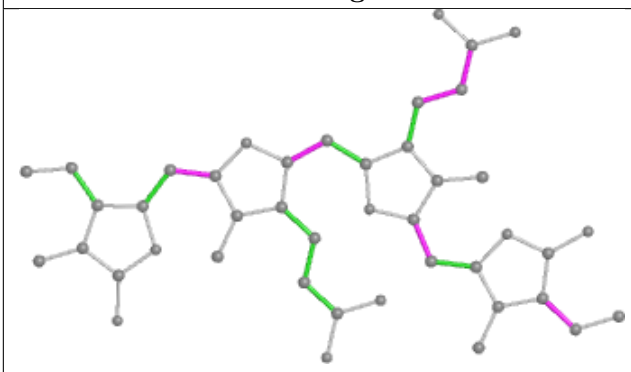

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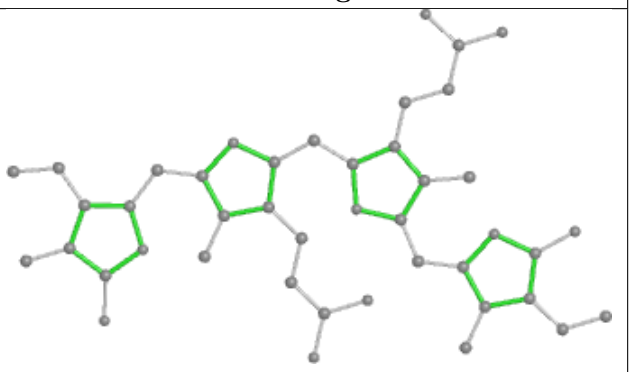
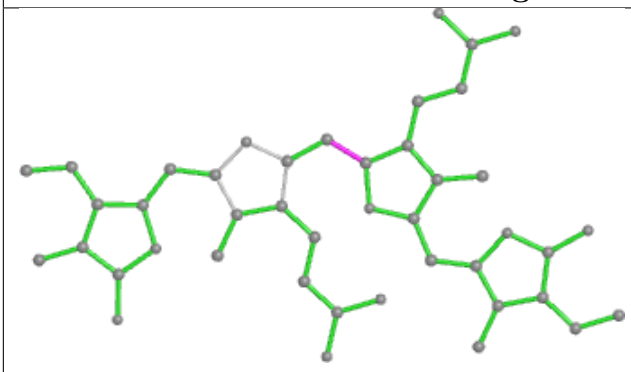


Rings

Ligand CYC K6 202



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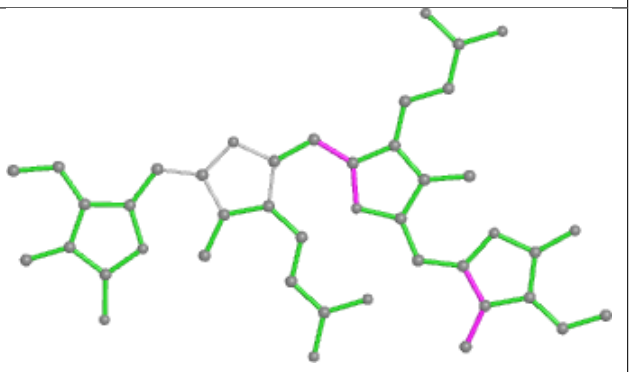

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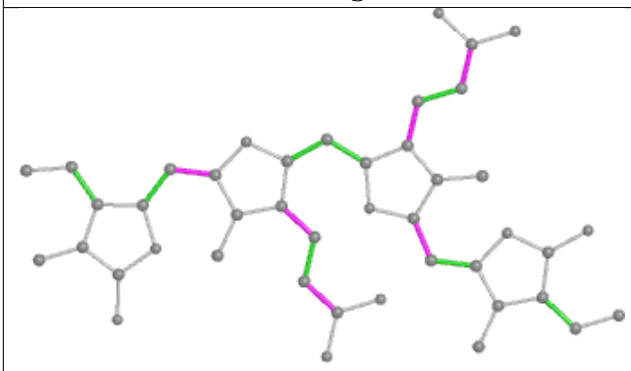

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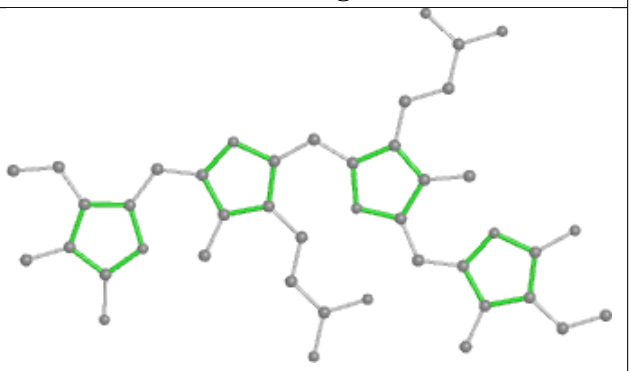
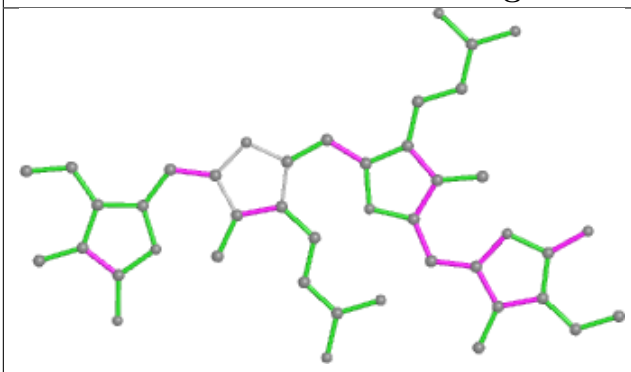


Rings

Ligand CYC Q8 1001



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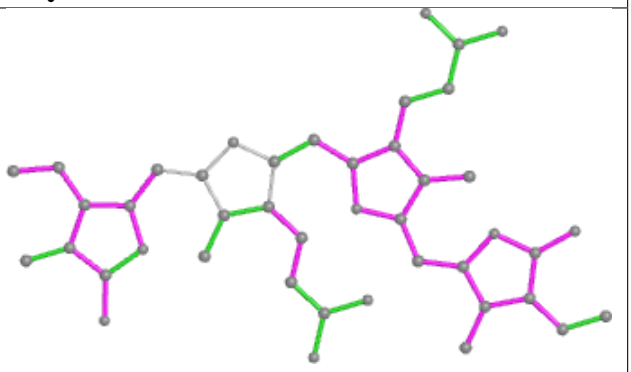
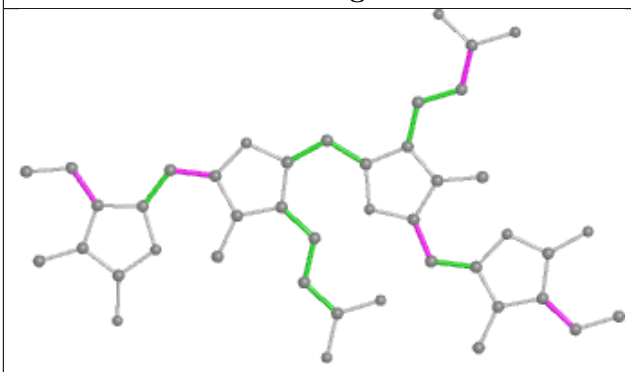


Bond angles



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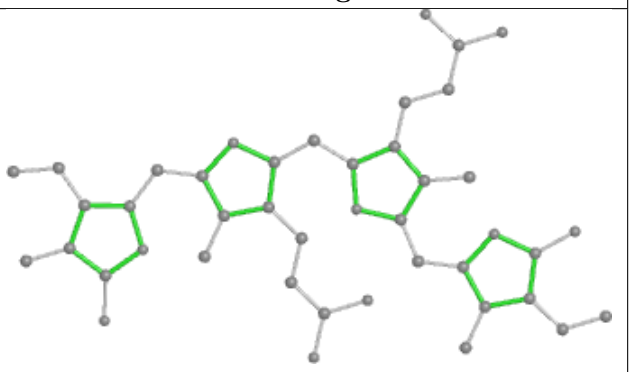
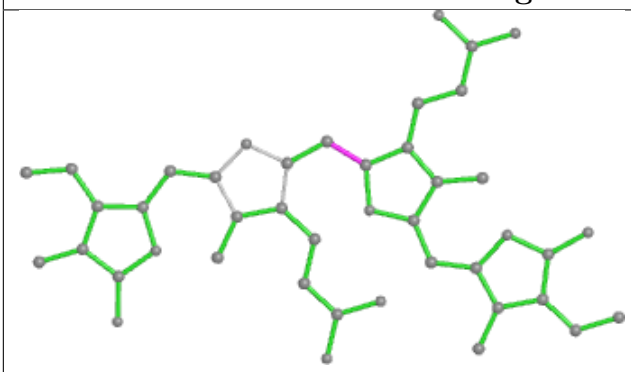


Rings

Ligand CYC Z2 201



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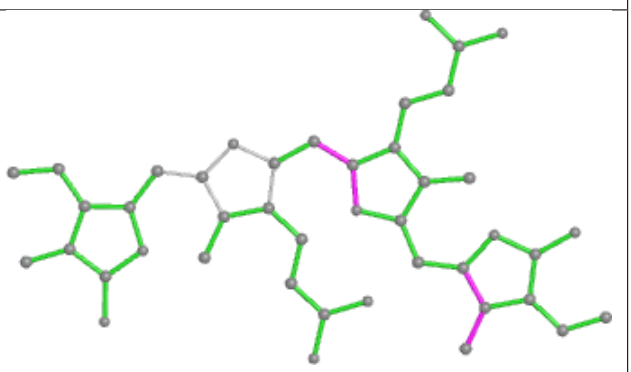

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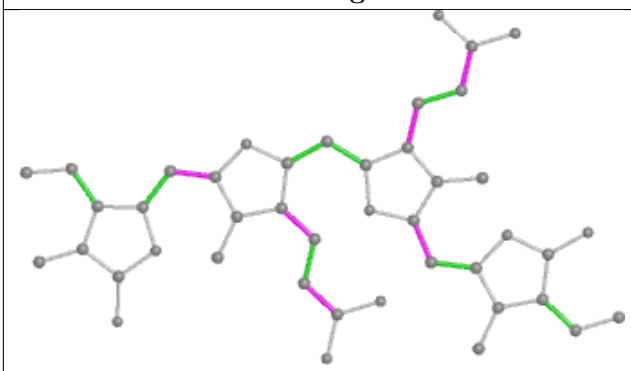

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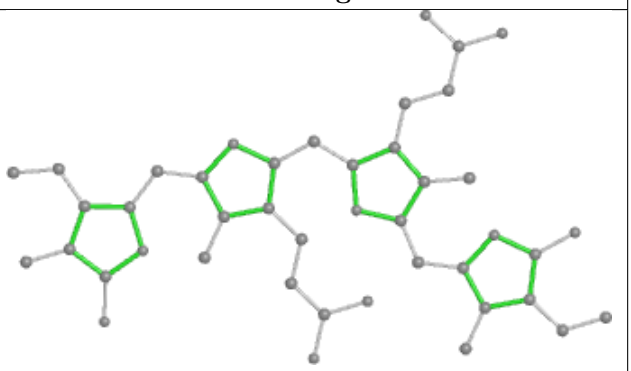

Rings

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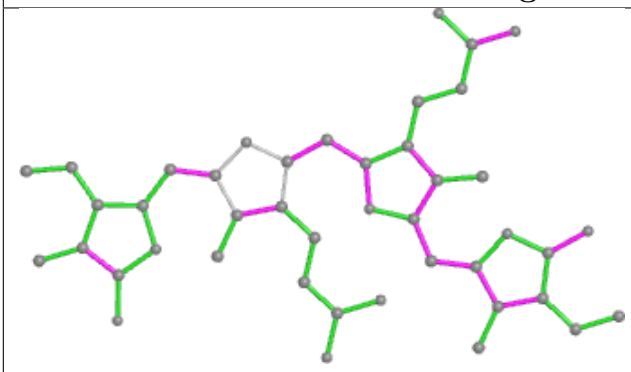

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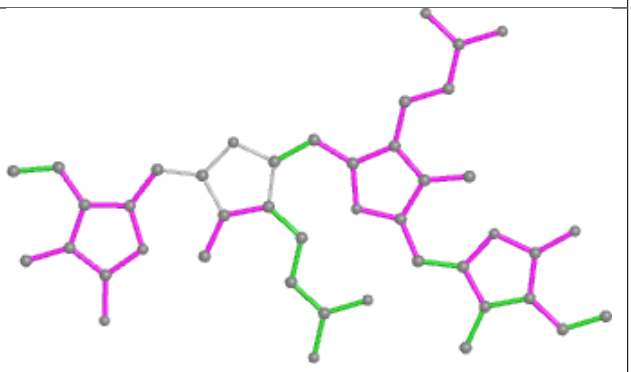

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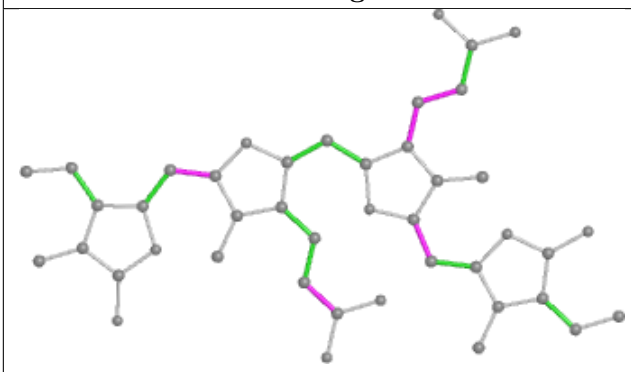

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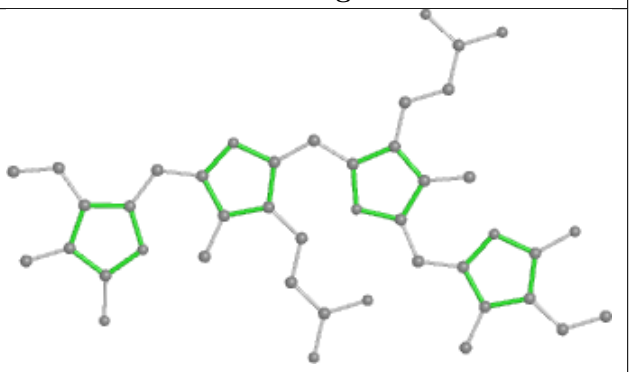
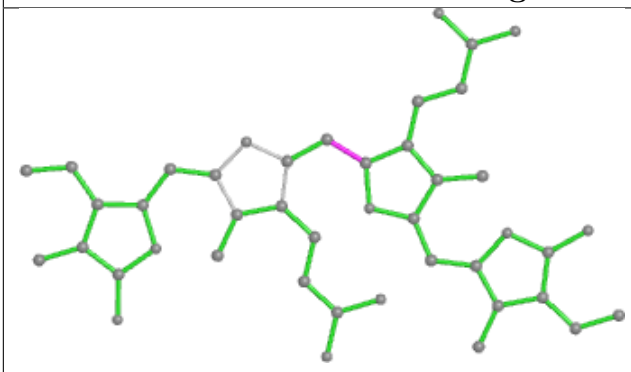


Rings

Ligand CYC M4 202



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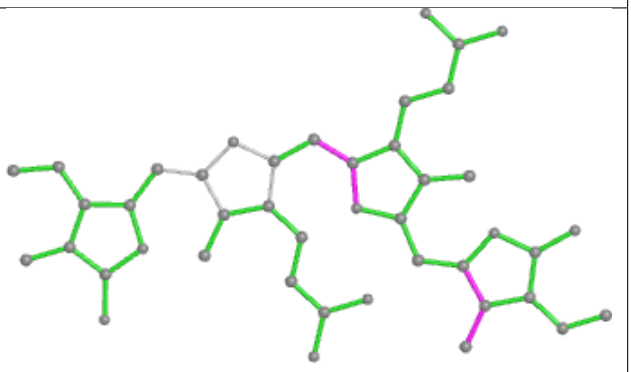

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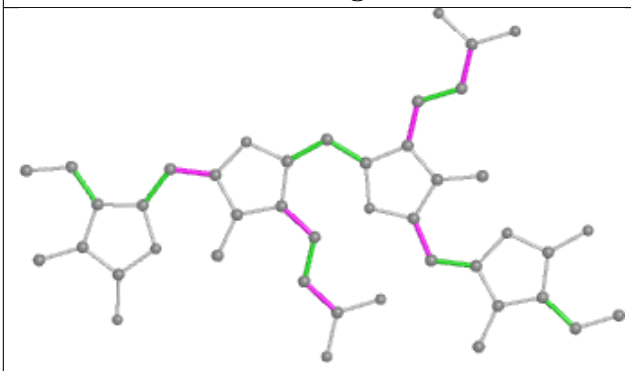

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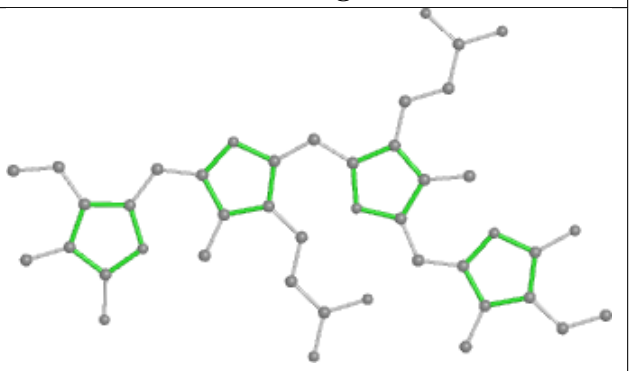
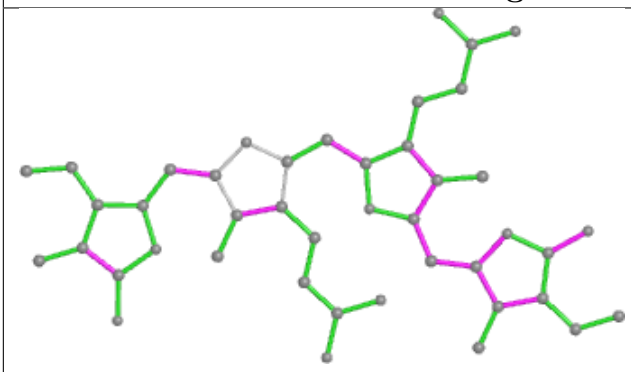


Rings

Ligand CYC L8 1001



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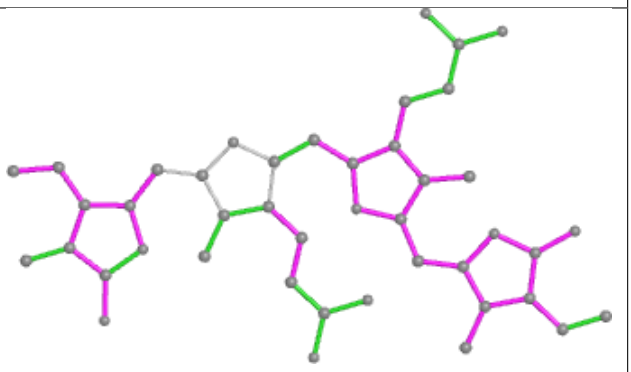

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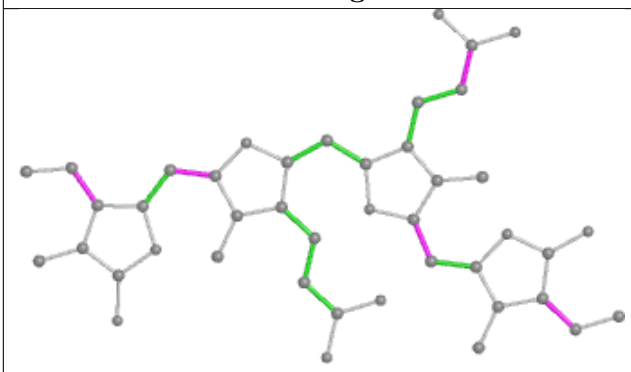

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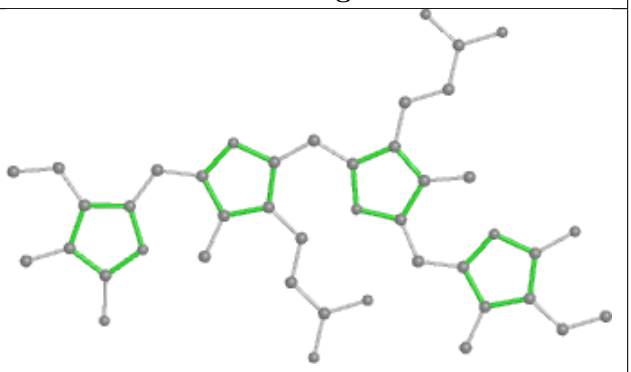
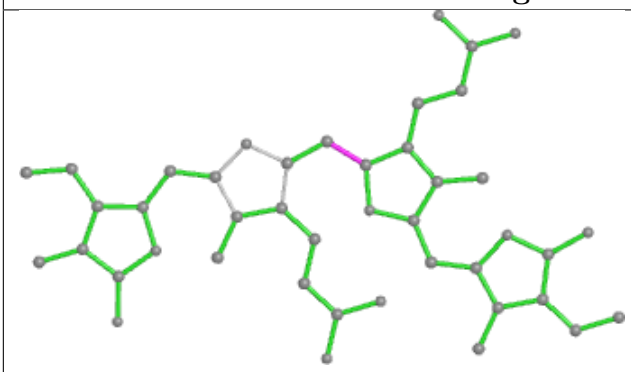


Rings

Ligand CYC Q4 202



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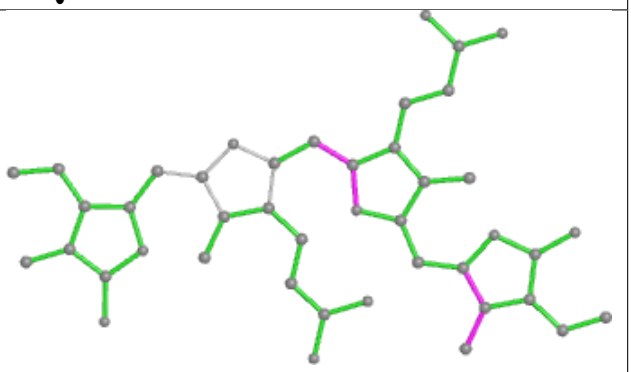

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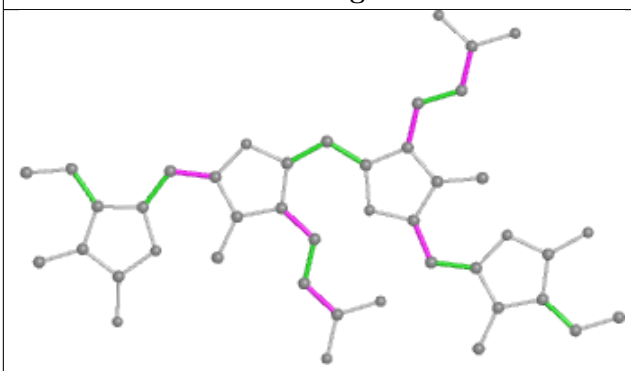

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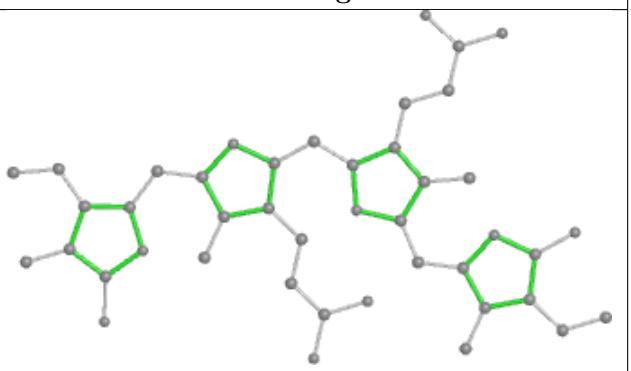
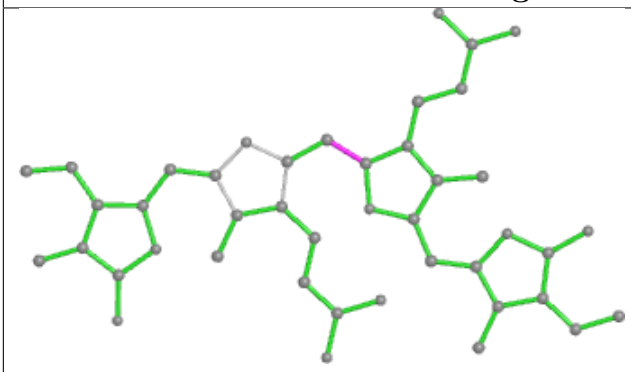
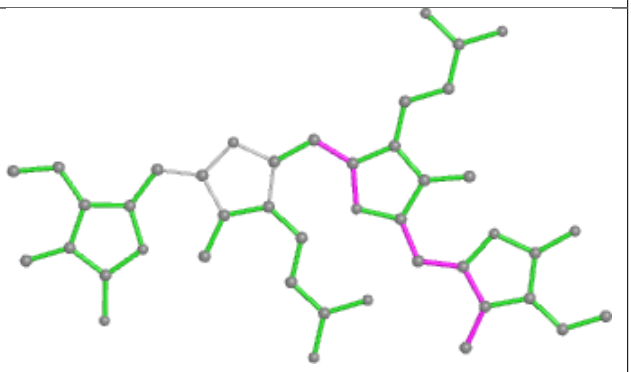


Rings

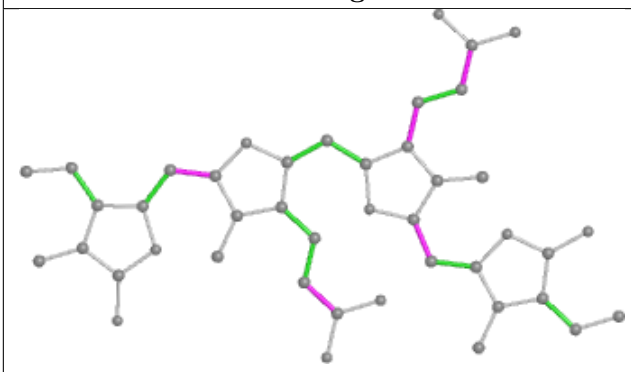
Ligand CYC N2 301



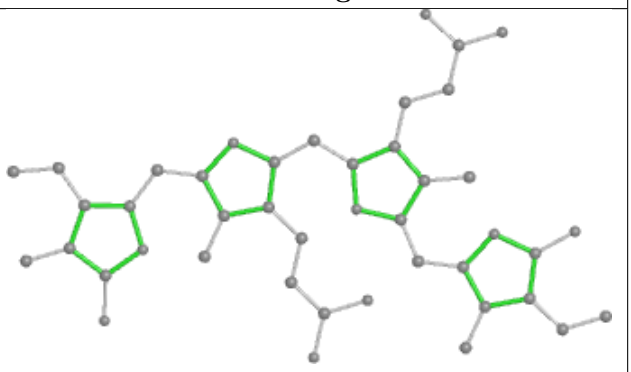
Bond lengths



Bond angles

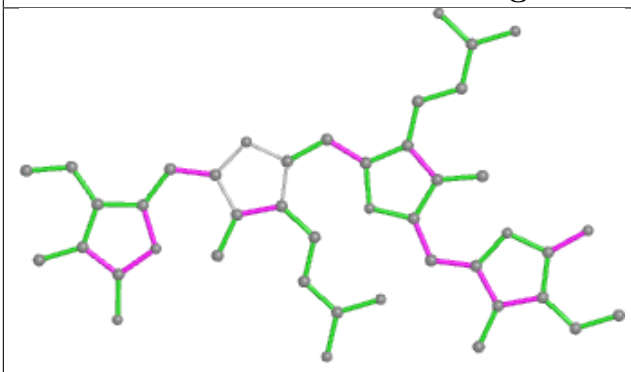


Torsions



Rings

Ligand CYC r9 1001



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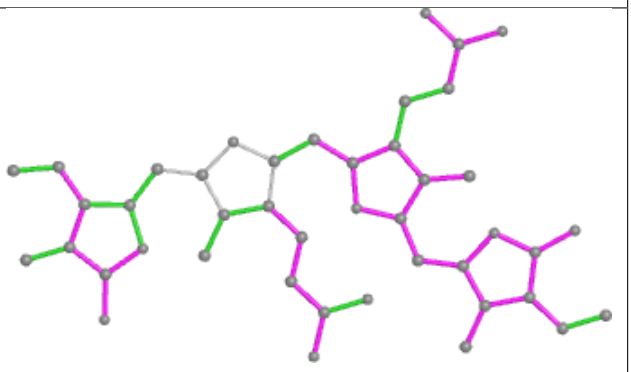

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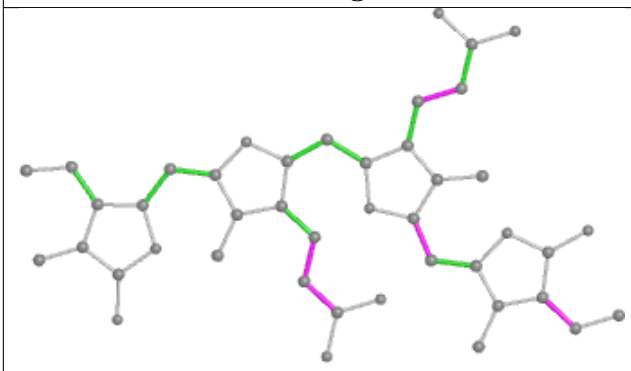

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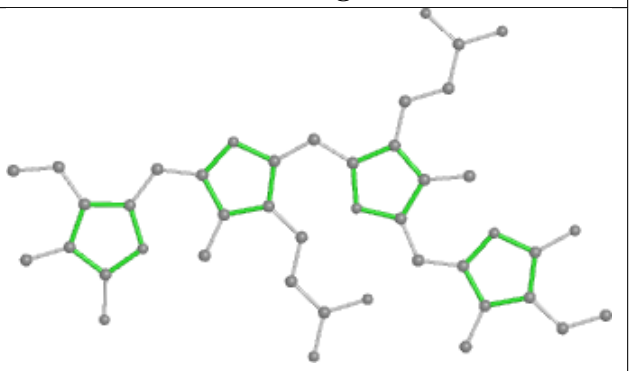
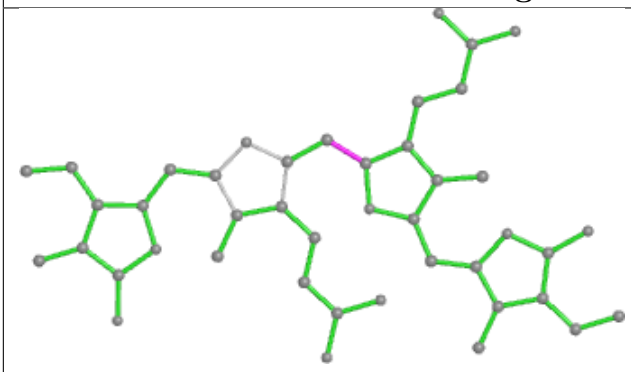


Rings

Ligand CYC Z1 201



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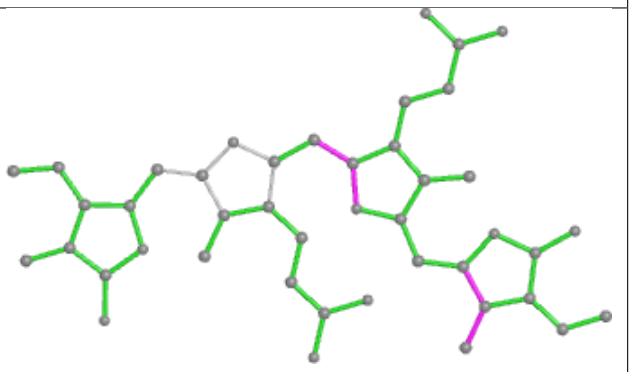
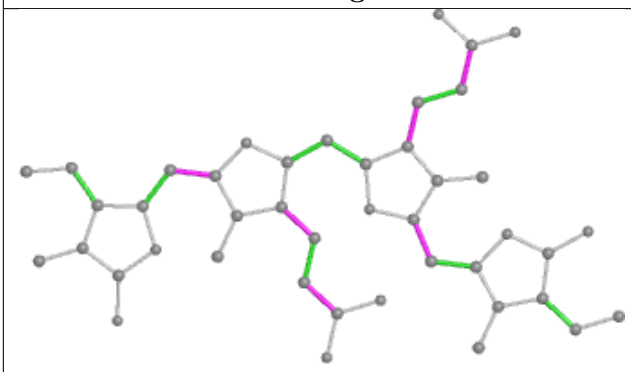


Bond angles



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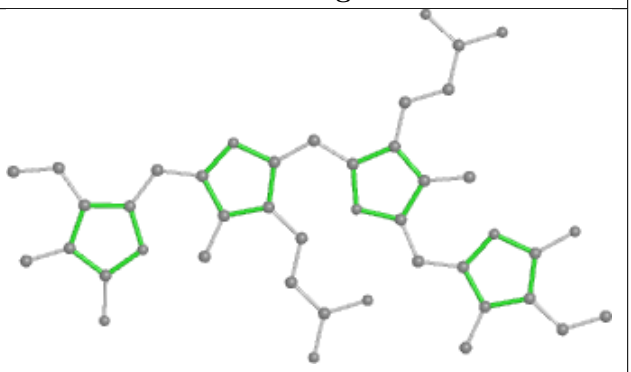
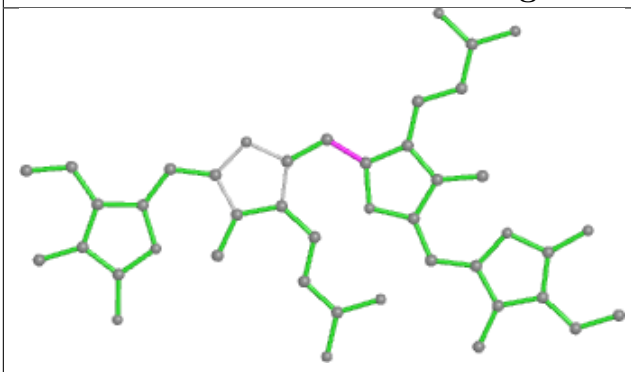


Rings

Ligand CYC I7 202



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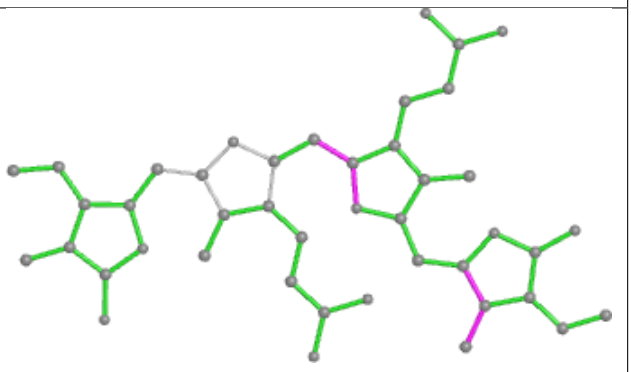
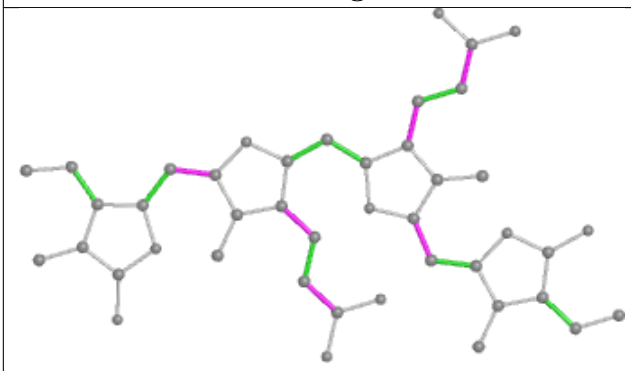


Bond angles



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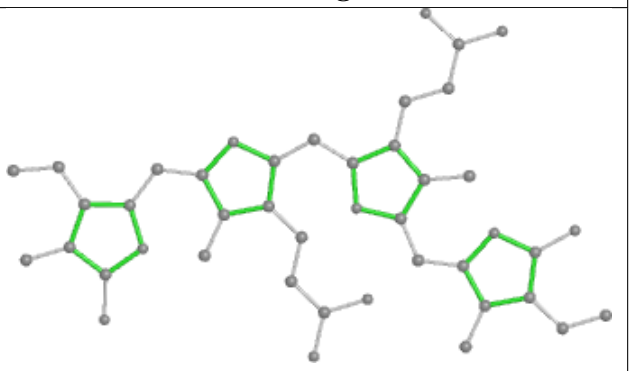
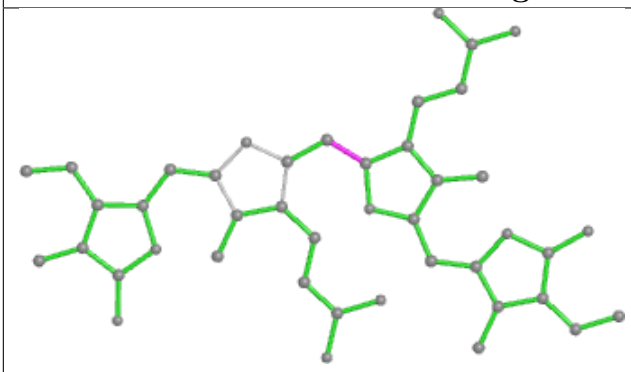


Rings

Ligand CYC N6 301



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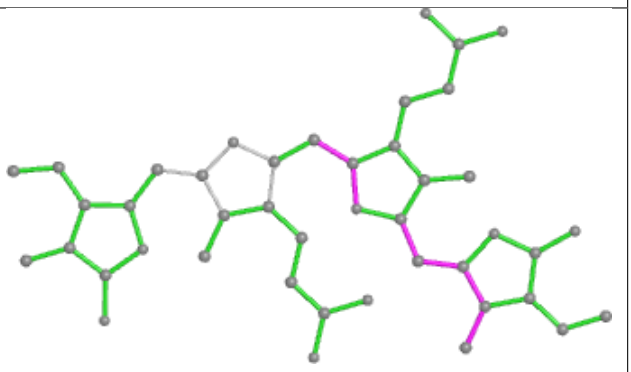
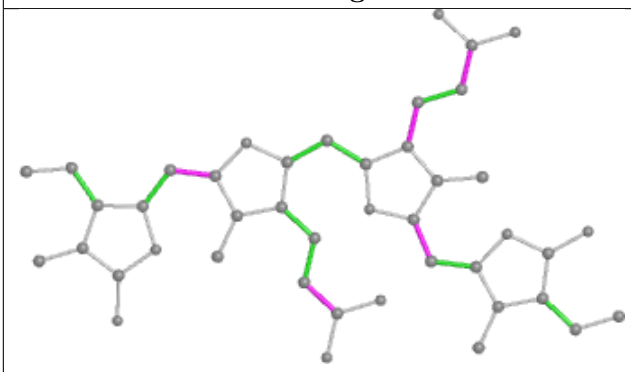


Bond angles



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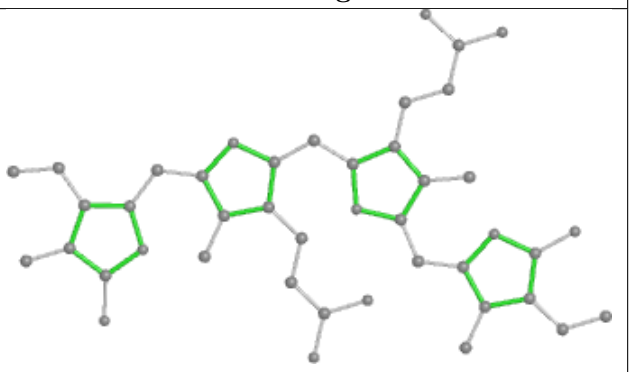
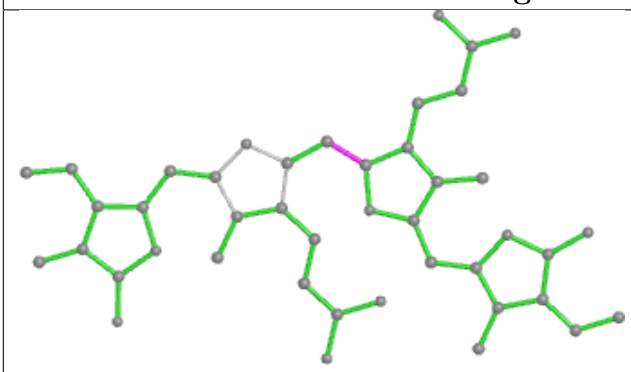


Rings

Ligand CYC P2 201



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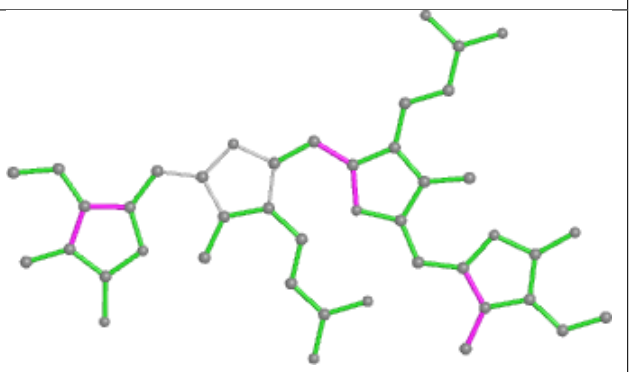
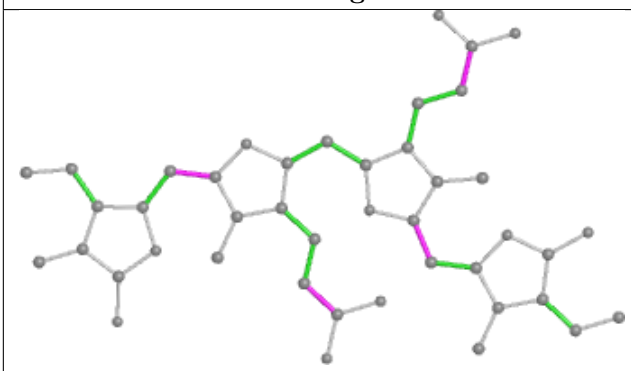


Bond angles



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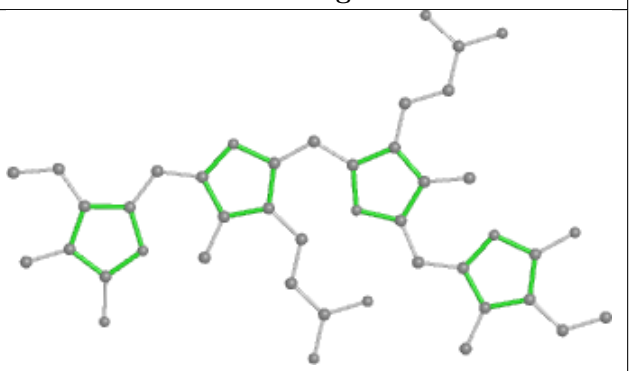
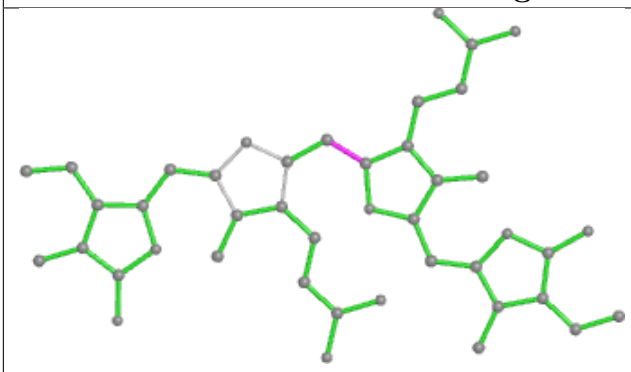


Rings

Ligand CYC P1 202



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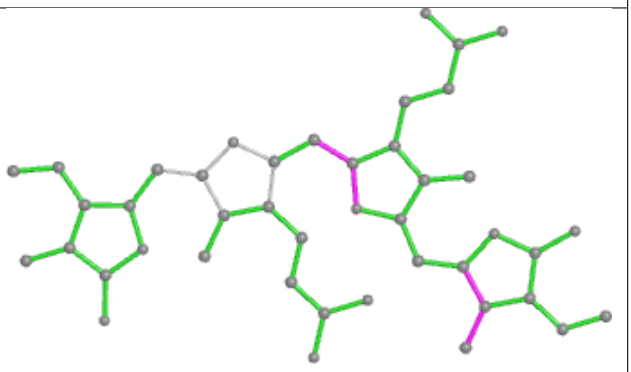
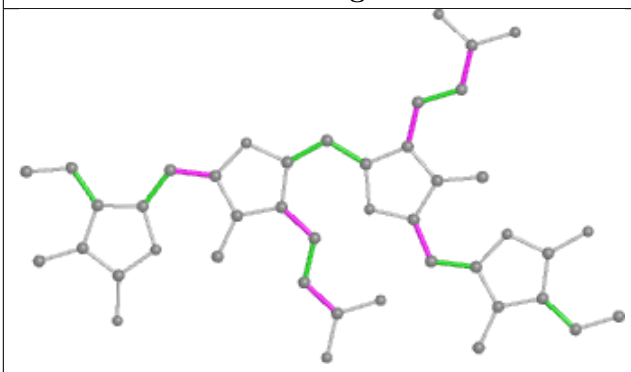


Bond angles



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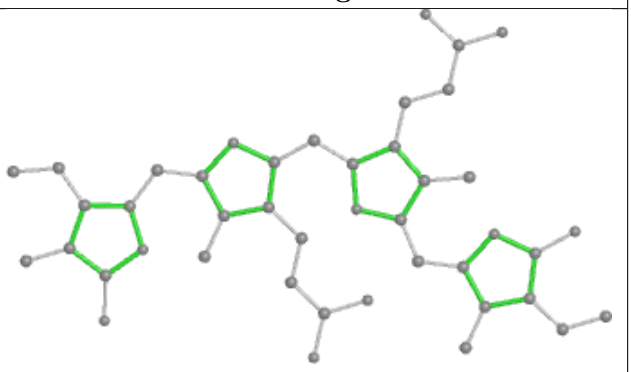
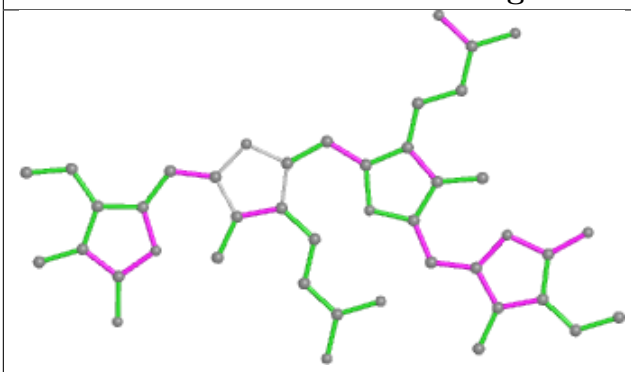


Rings

Ligand CYC S6 1001



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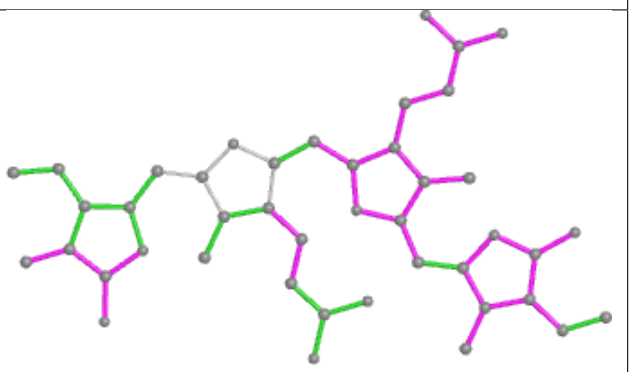

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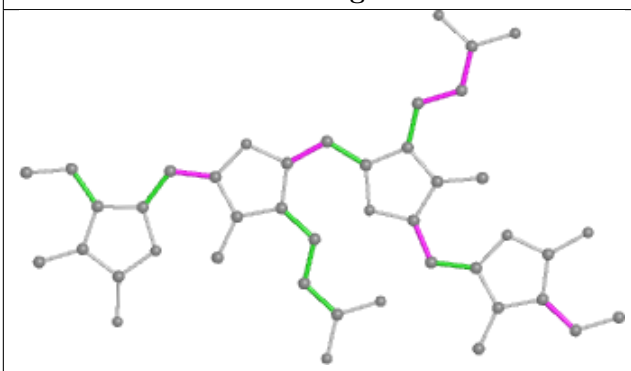

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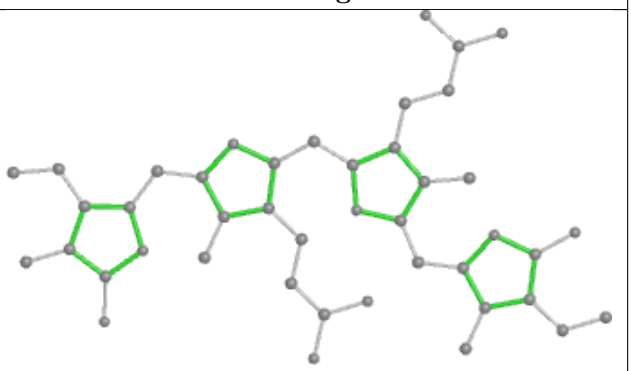
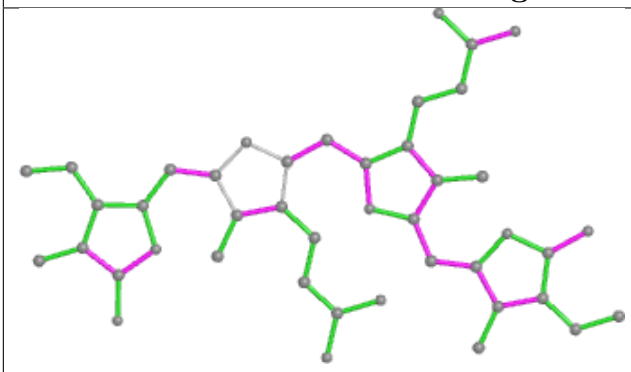


Rings

Ligand CYC ZA 201



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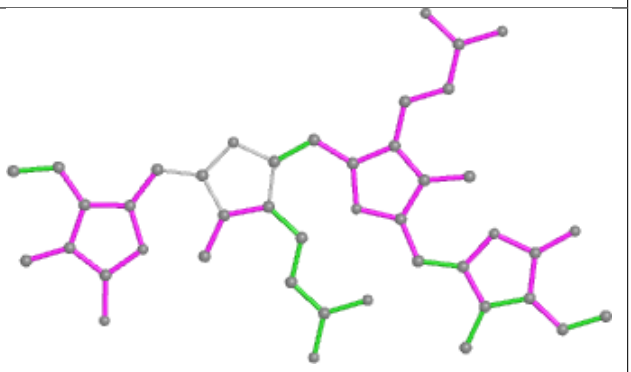
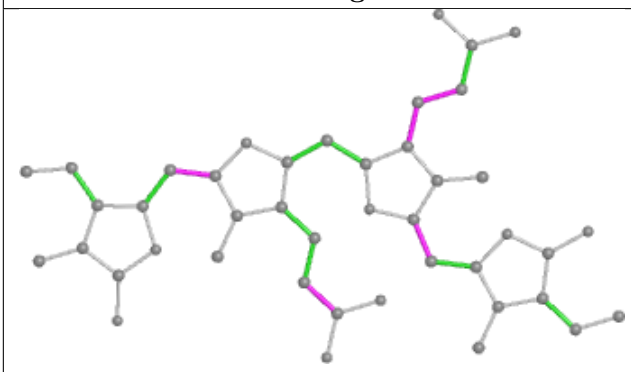
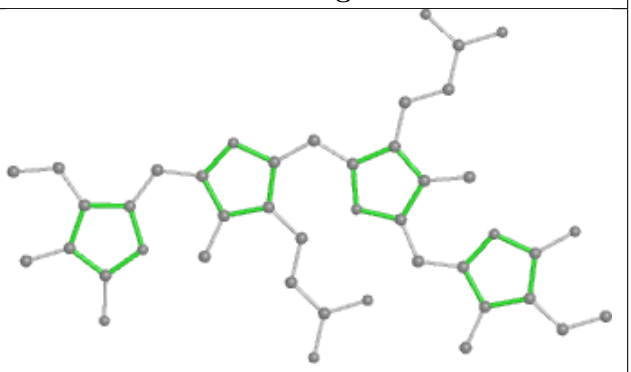


Bond angles

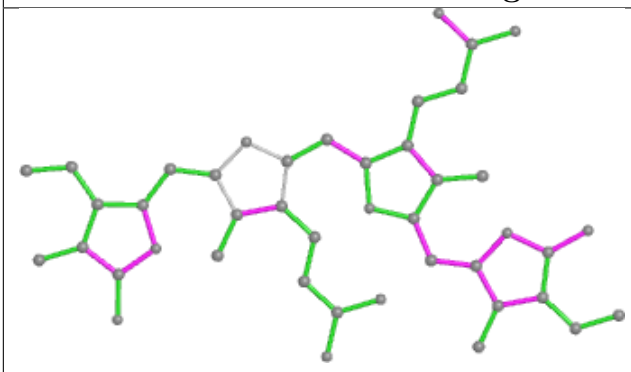


Torsions



Rings

Ligand CYC H3 1001



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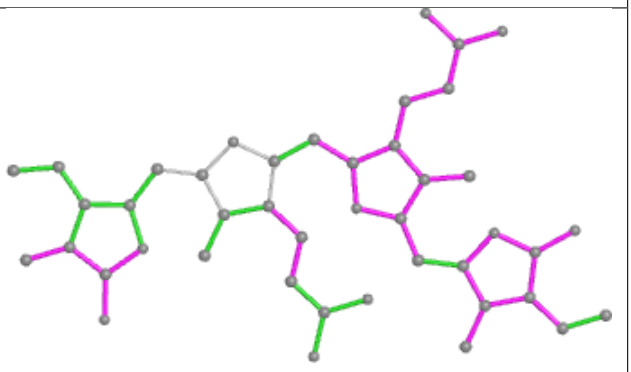

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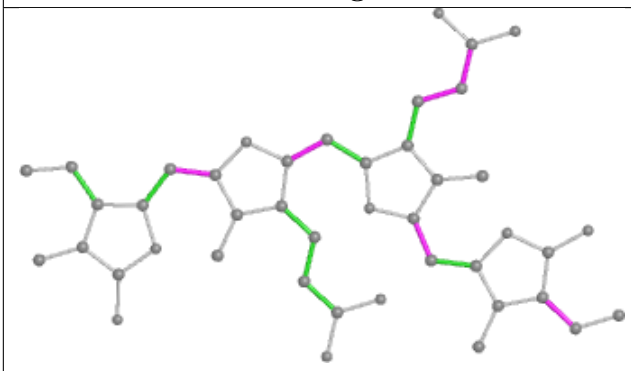

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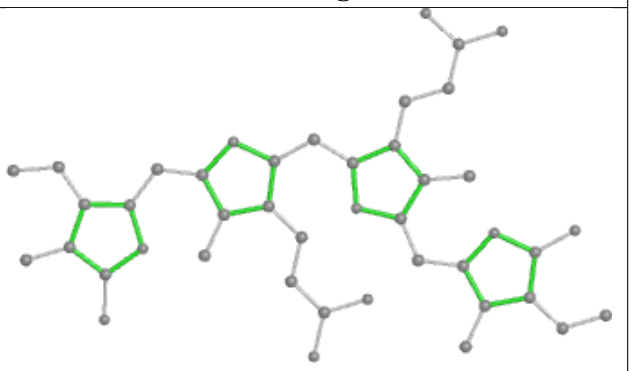
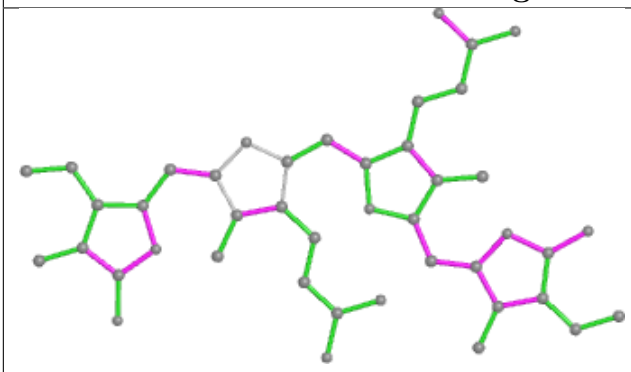


Rings

Ligand CYC Y4 201



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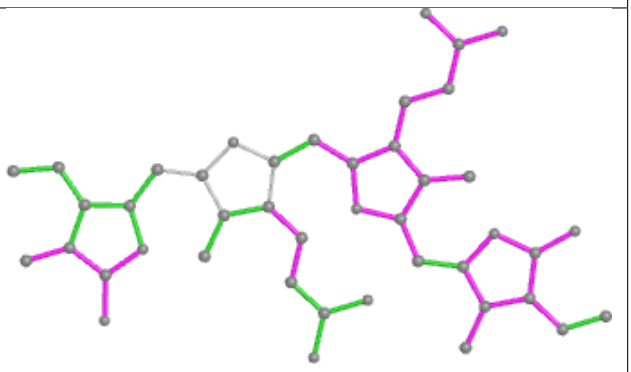

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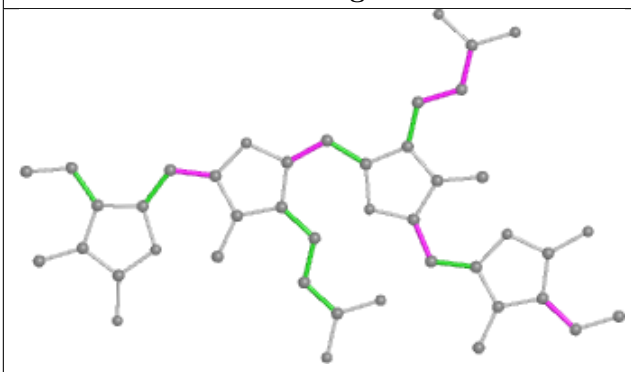

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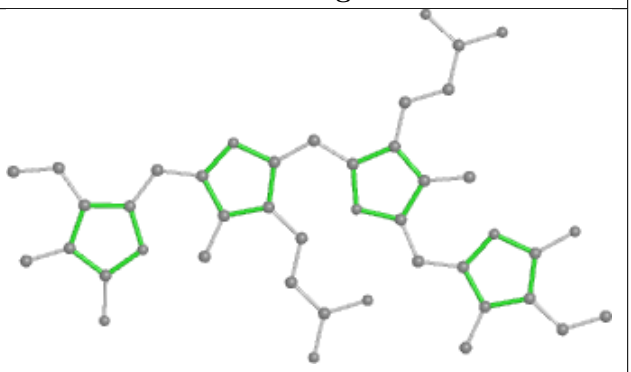
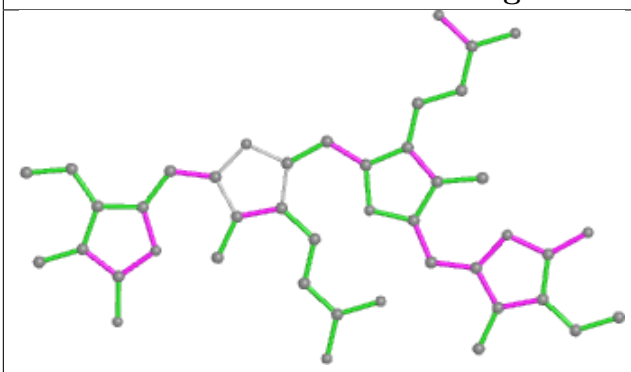


Rings

Ligand CYC U4 1001



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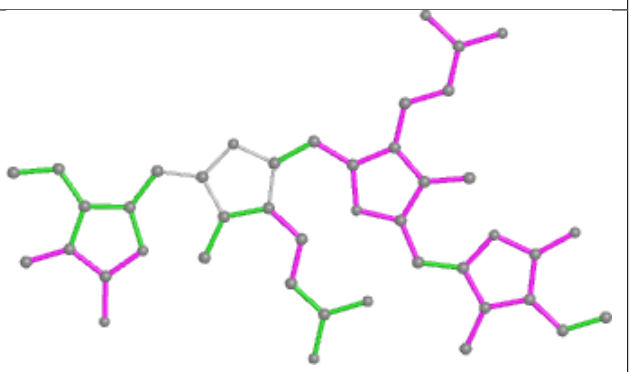
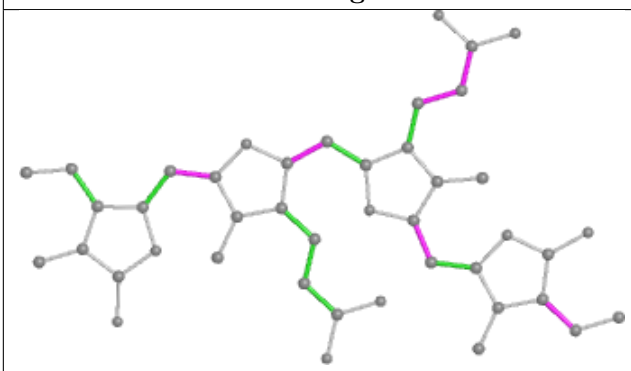


Bond angles



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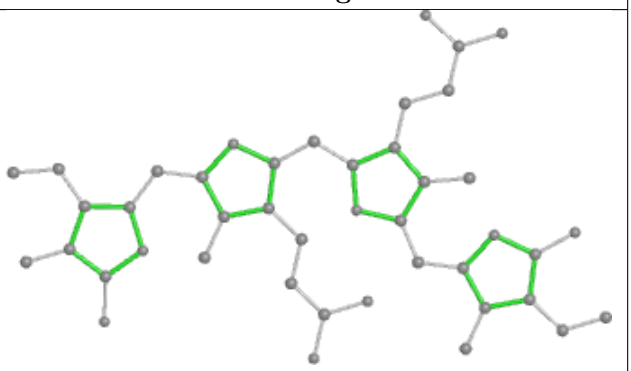
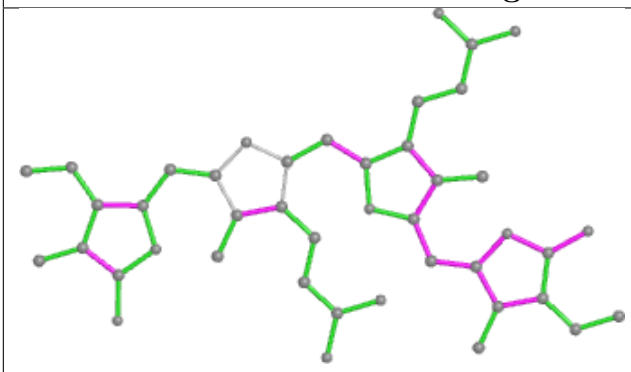


Rings

Ligand CYC G9 1001



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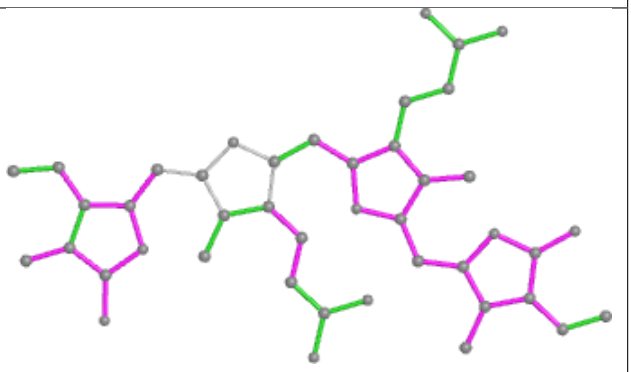
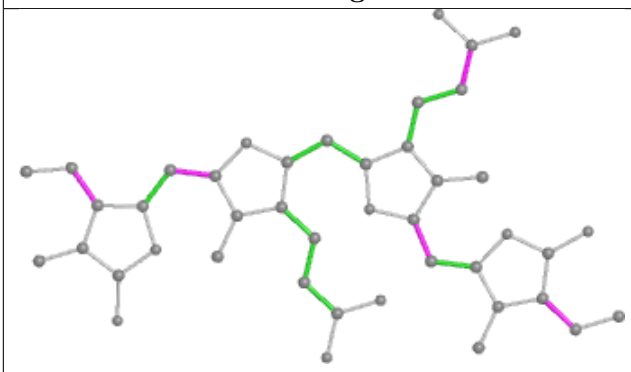


Bond angles



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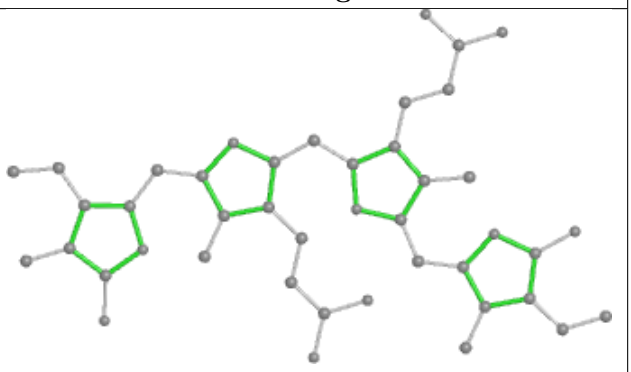
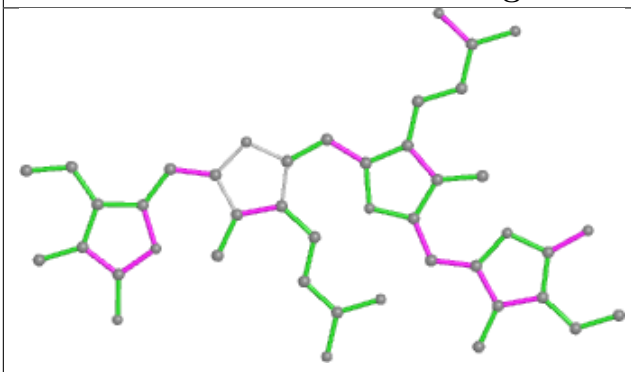


Rings

Ligand CYC H9 1001



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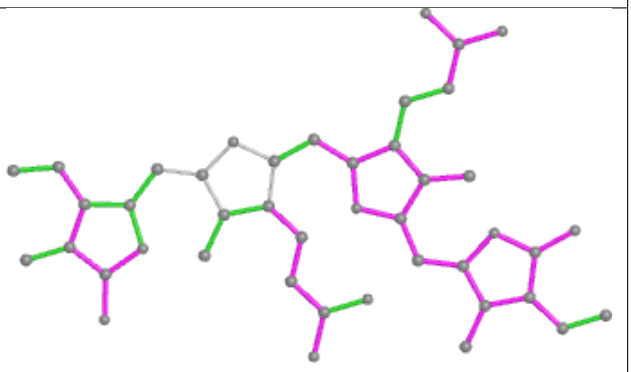
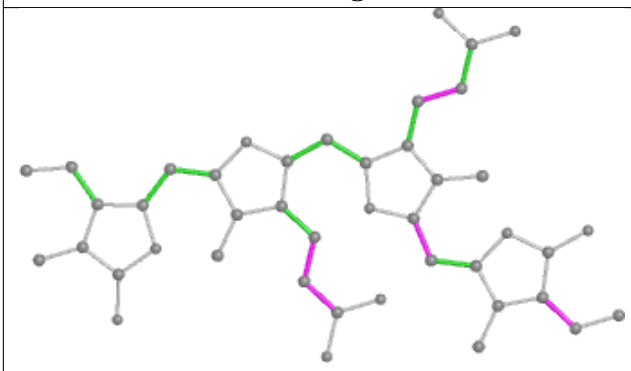
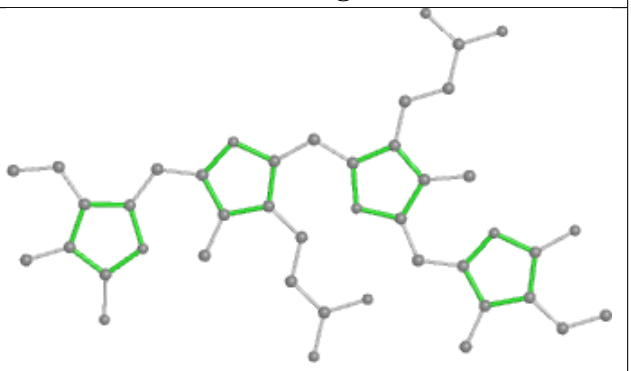


Bond angles

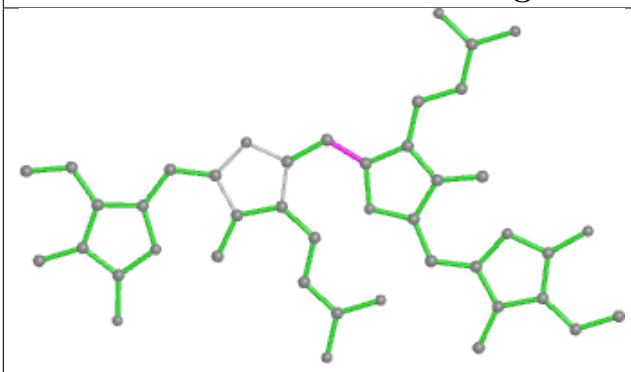


Torsions

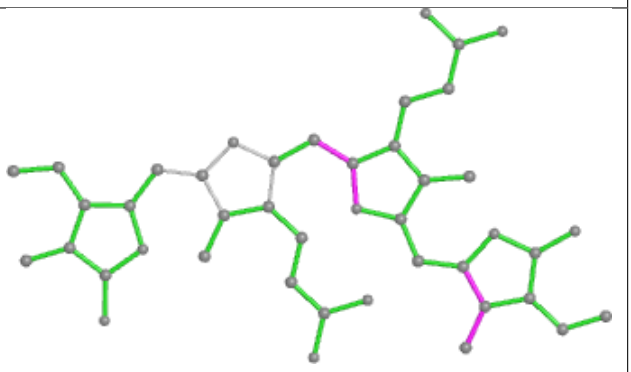


Rings

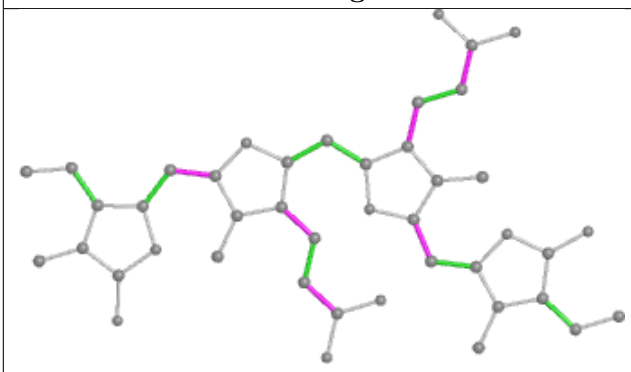
Ligand CYC T4 201



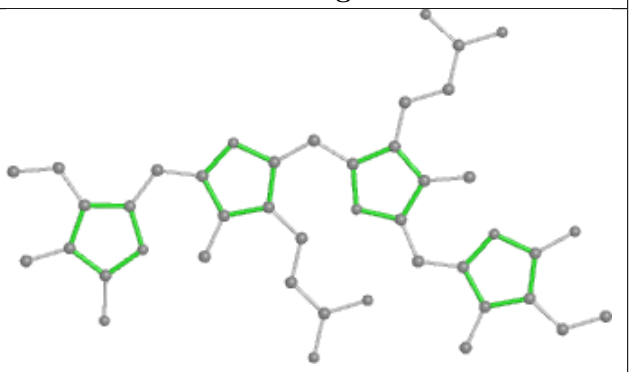
Bond lengths



Bond angles

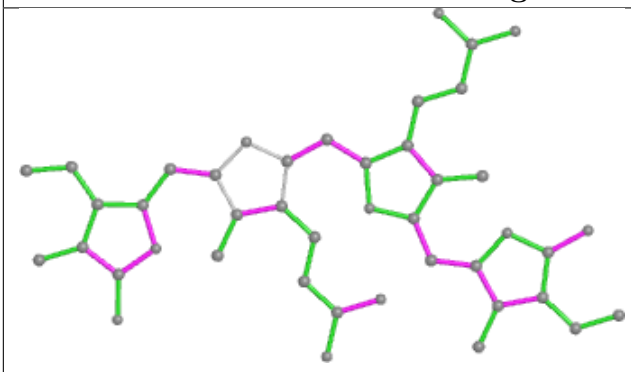


Torsions



Rings

Ligand CYC s8 1001



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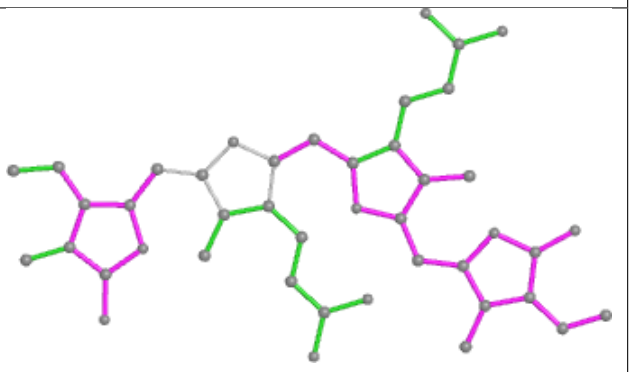

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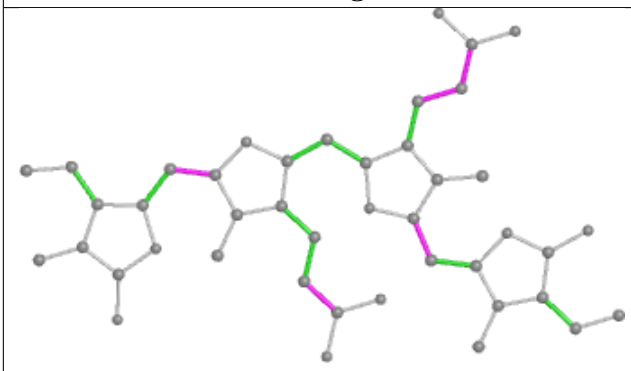

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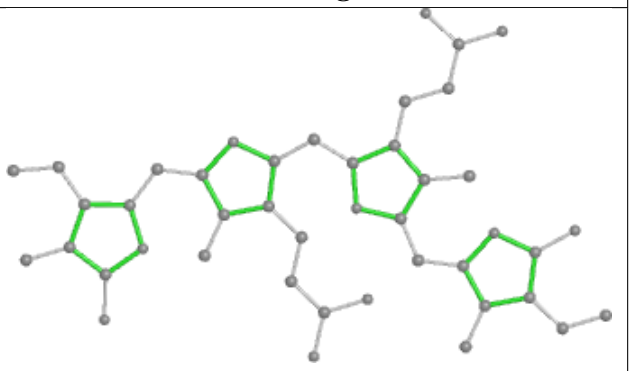
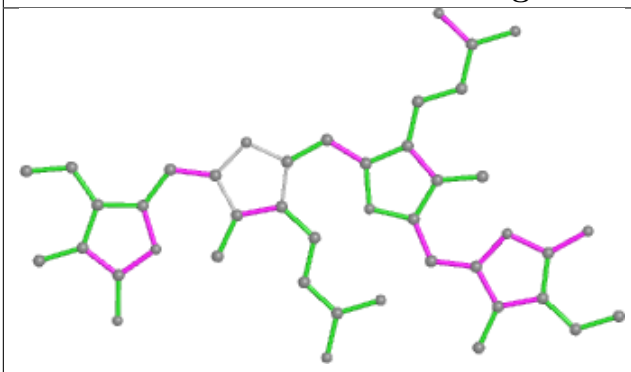


Rings

Ligand CYC G1 202



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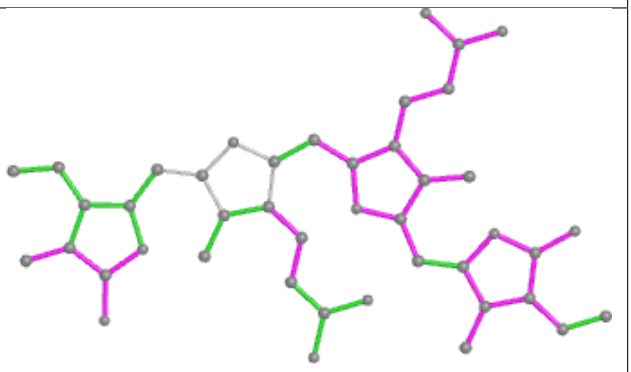

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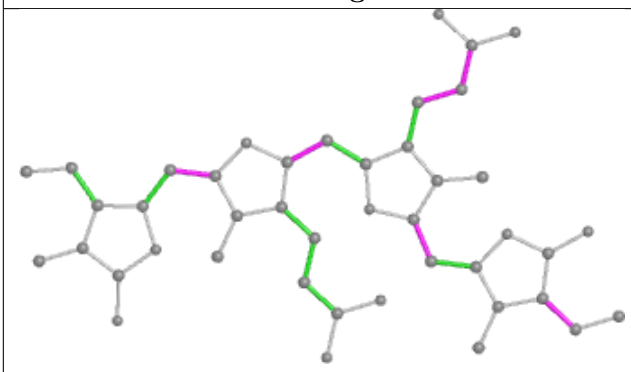

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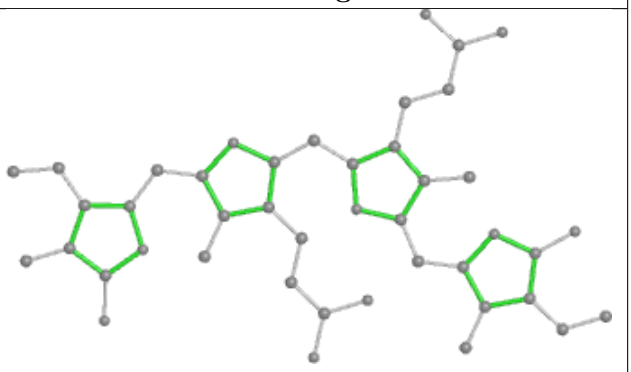
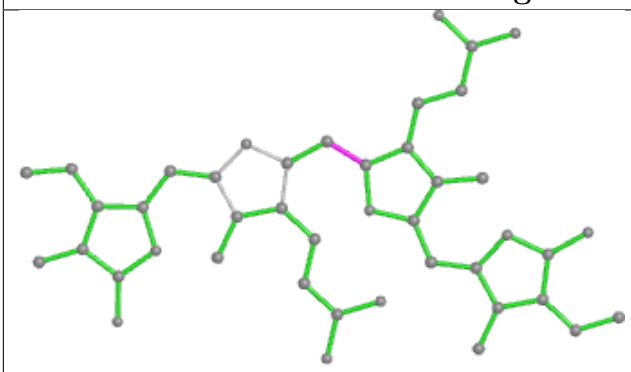


Rings

Ligand CYC P4 202



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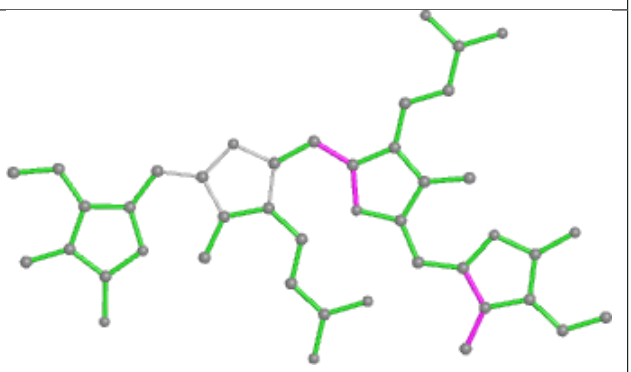

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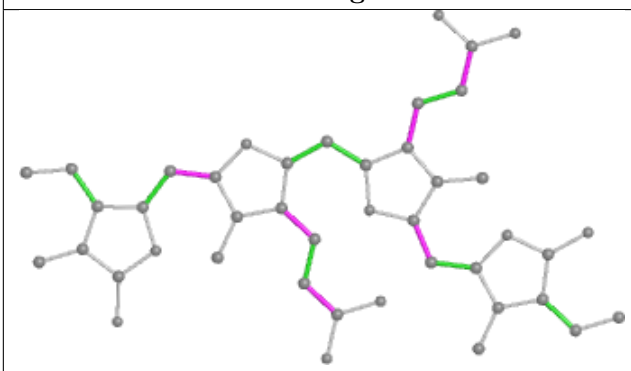

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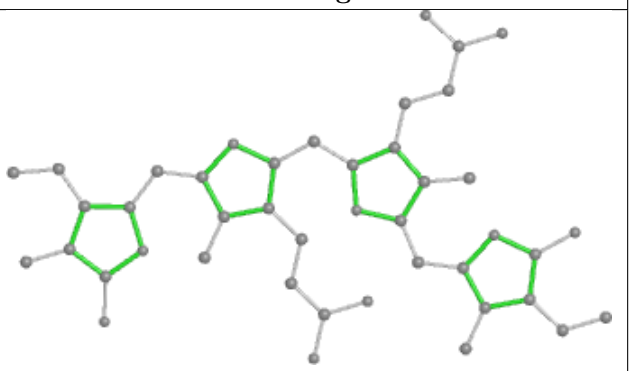
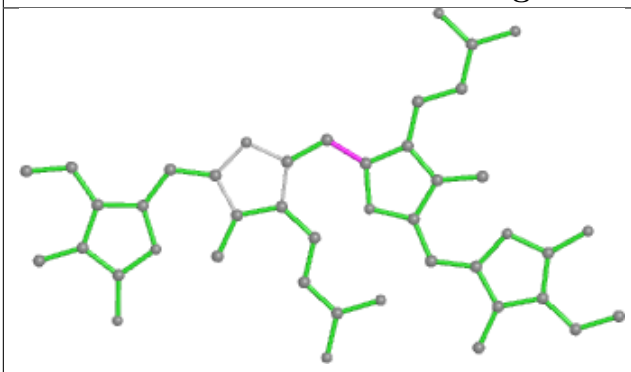


Rings

Ligand CYC X5 202



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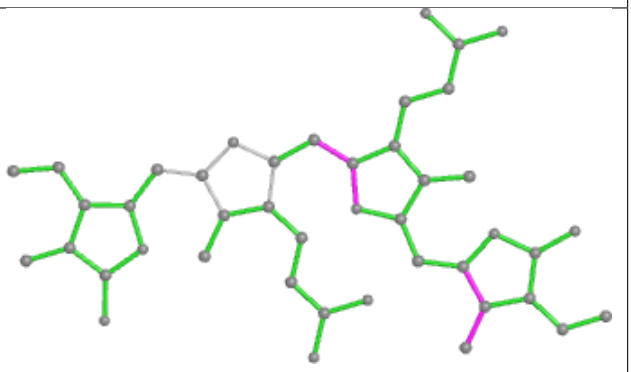

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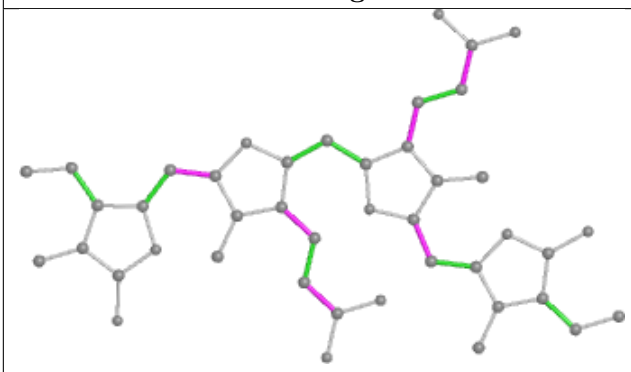

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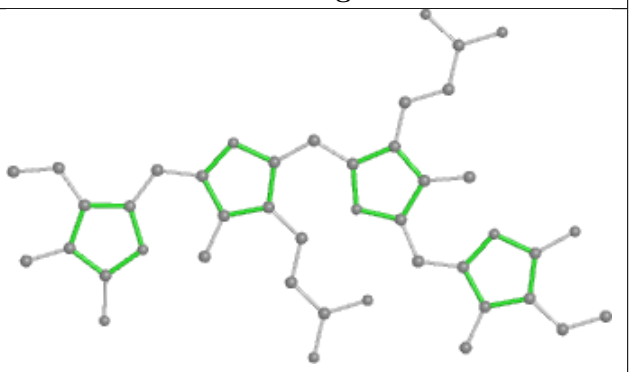
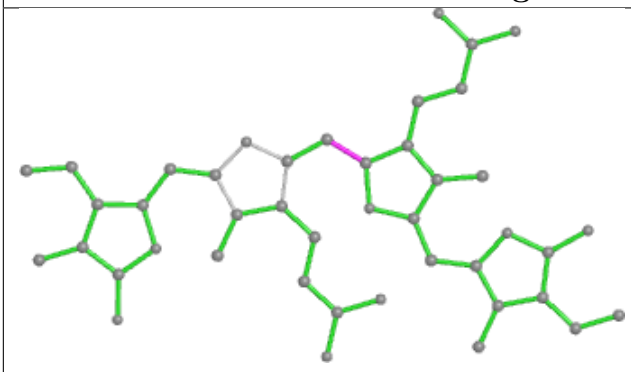


Rings

Ligand CYC U6 201



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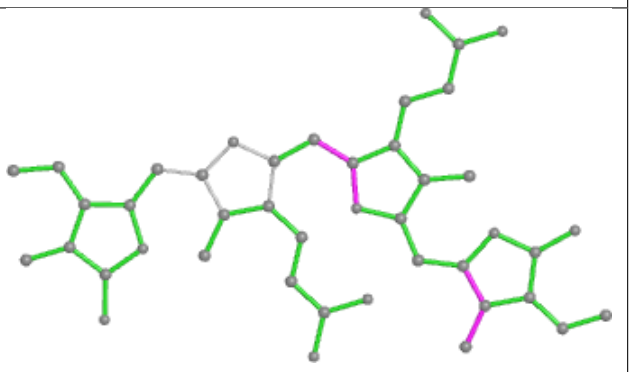

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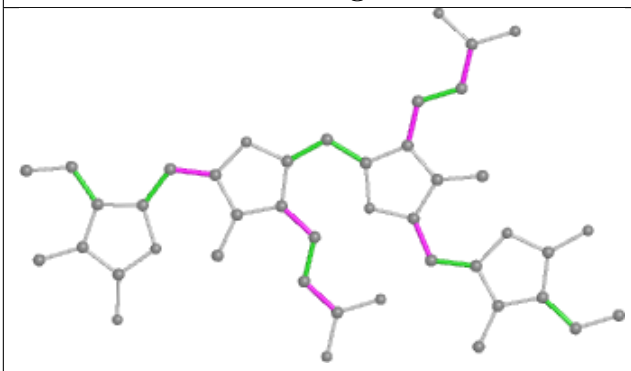

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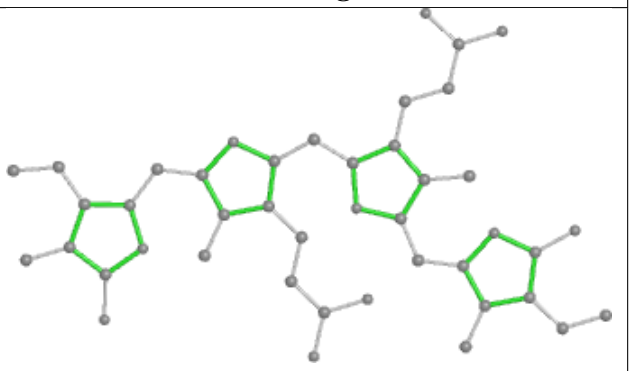
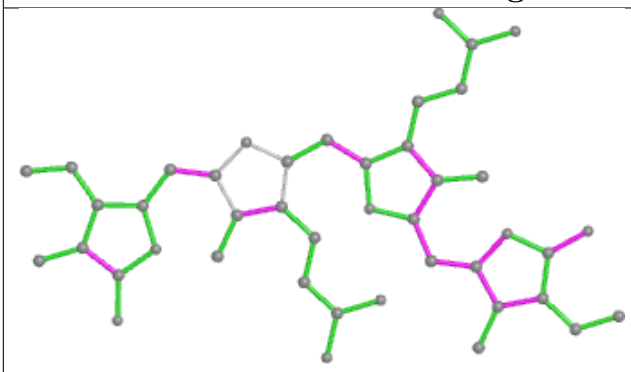


Rings

Ligand CYC p8 1001



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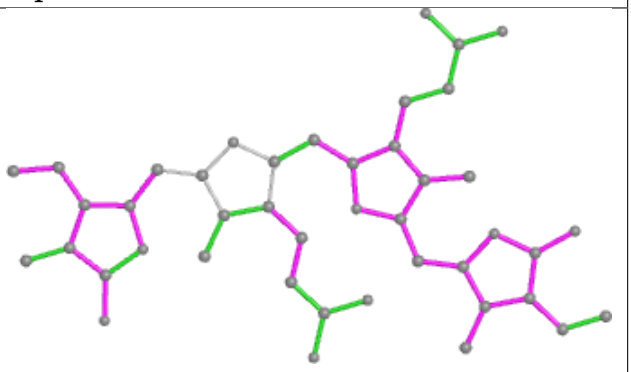

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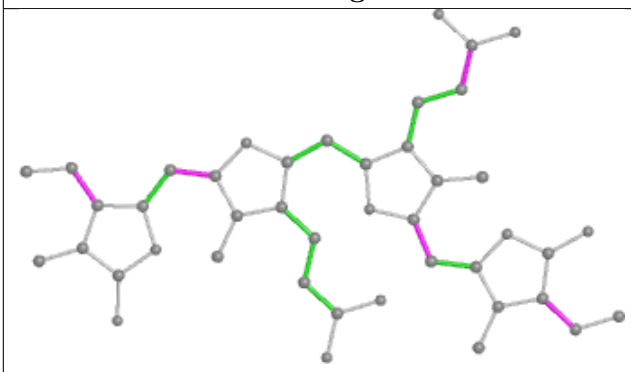

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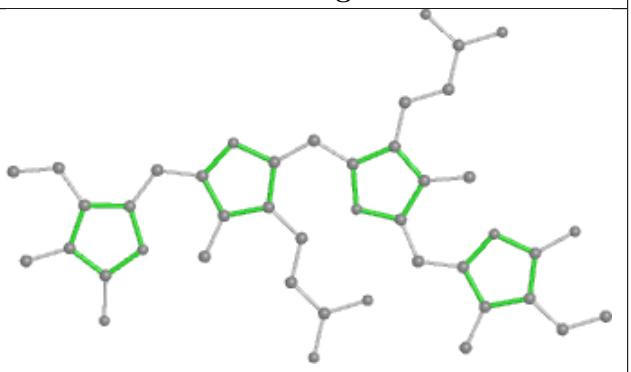
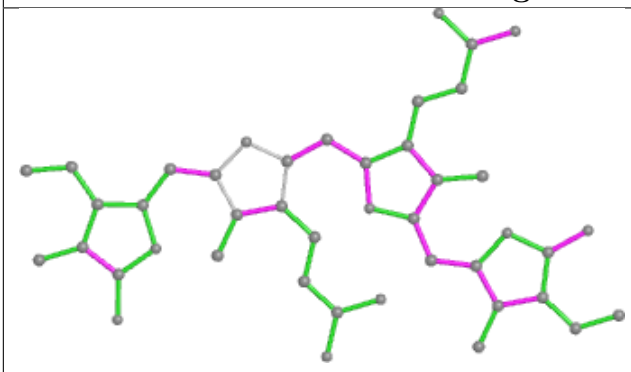


Rings

Ligand CYC V5 201



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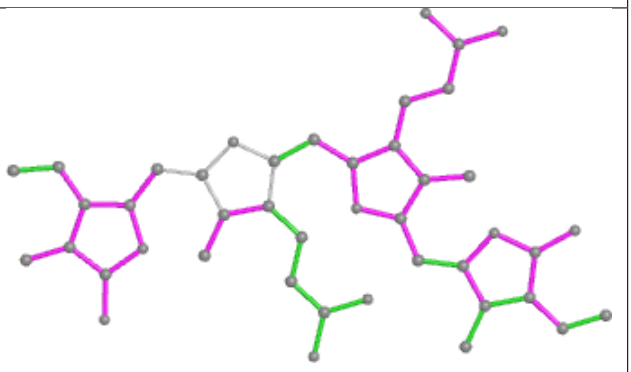

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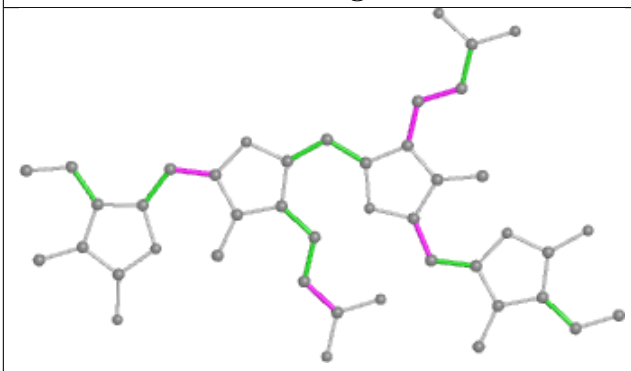

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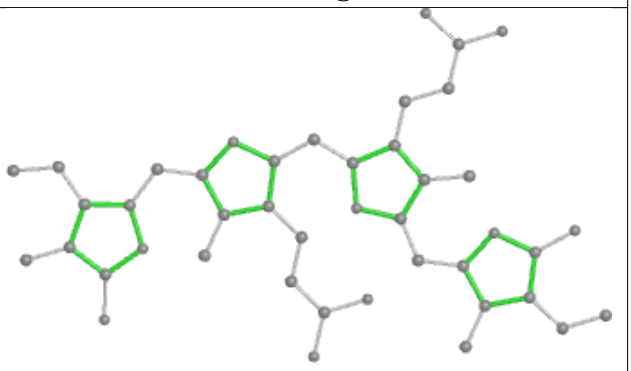
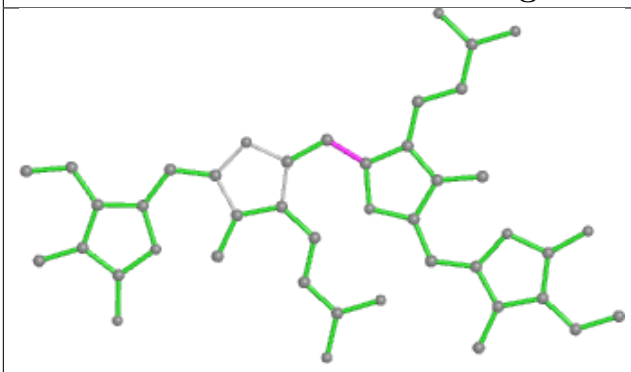


Rings

Ligand CYC I1 202



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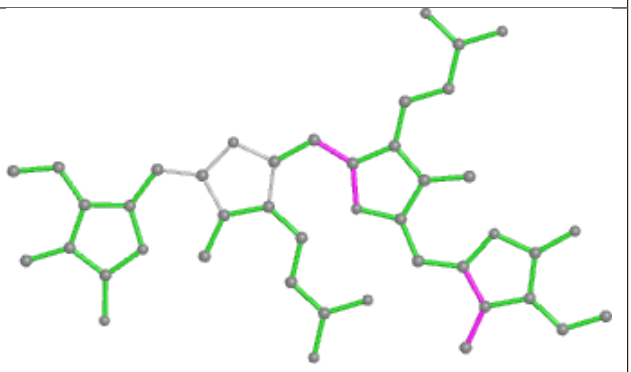
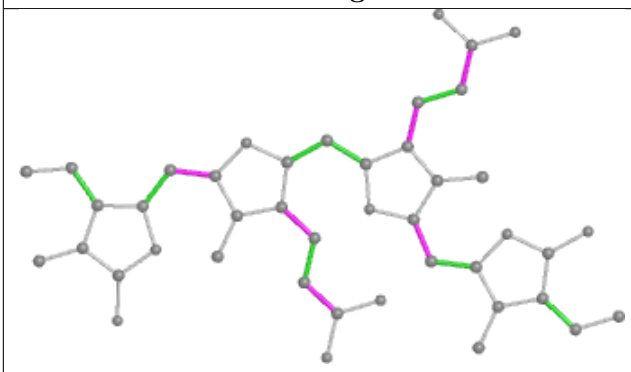


Bond angles



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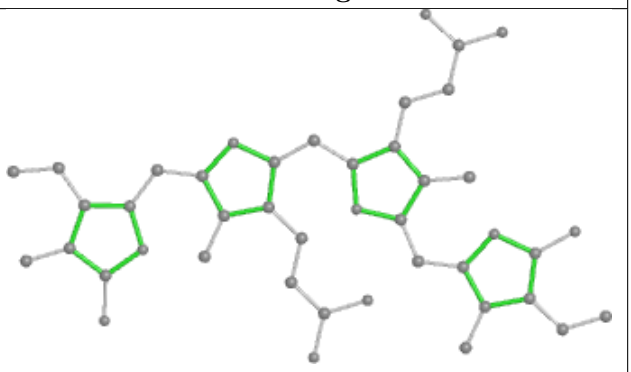
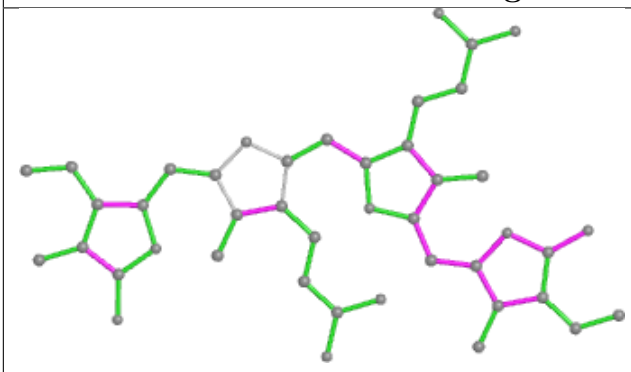


Rings

Ligand CYC w9 1001



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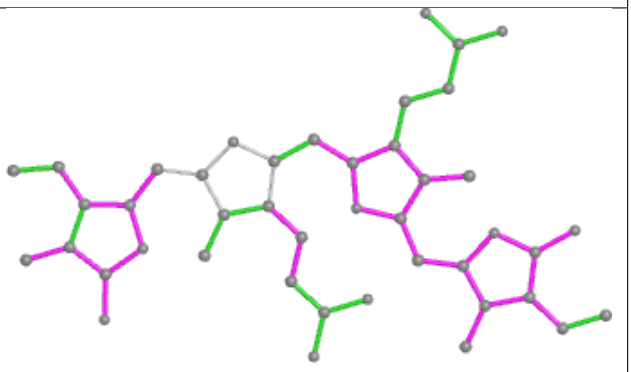

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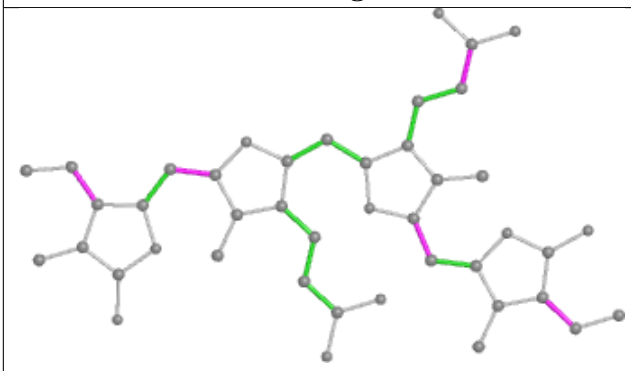

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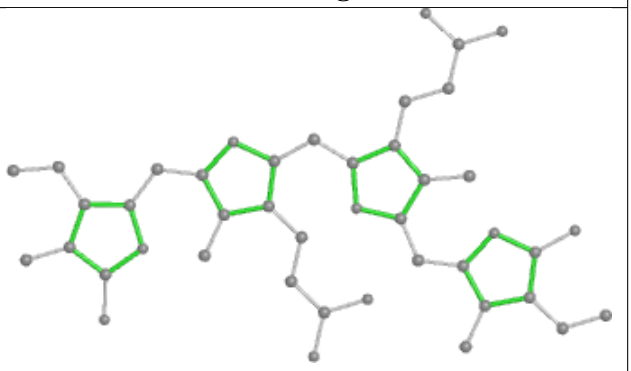
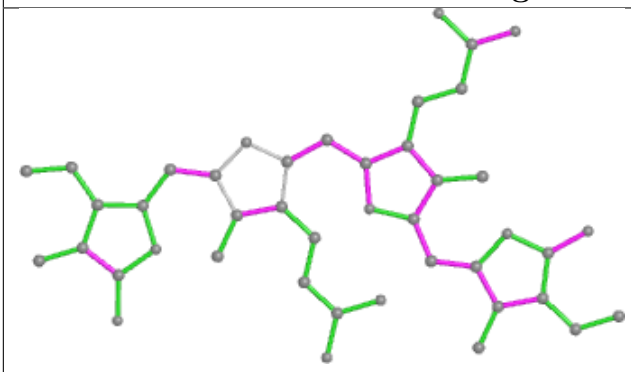


Rings

Ligand CYC N5 301



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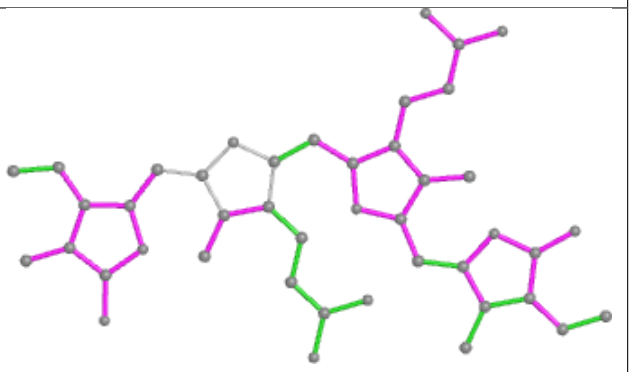

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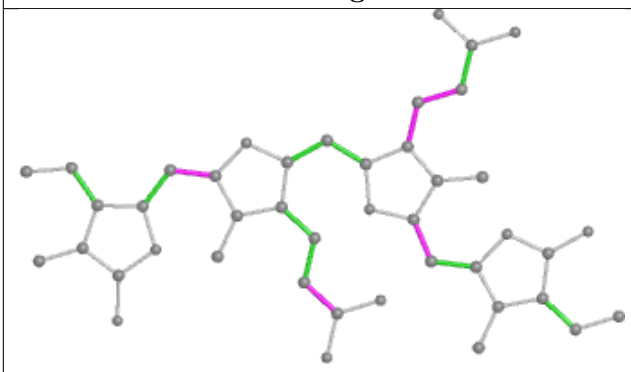

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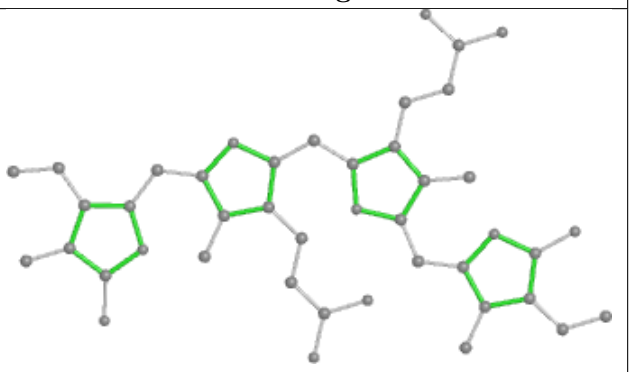
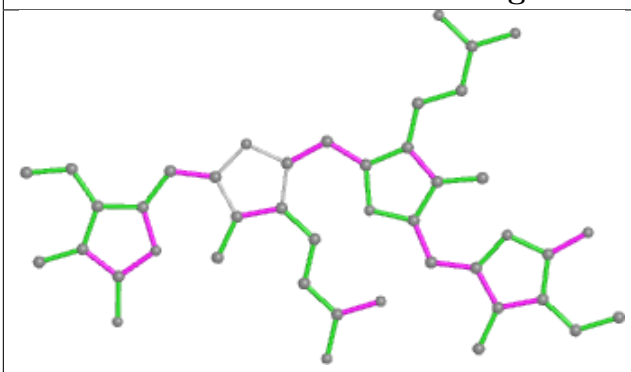


Rings

Ligand CYC 09 1201



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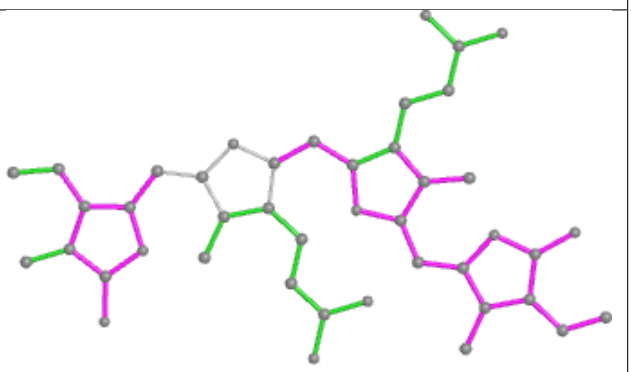
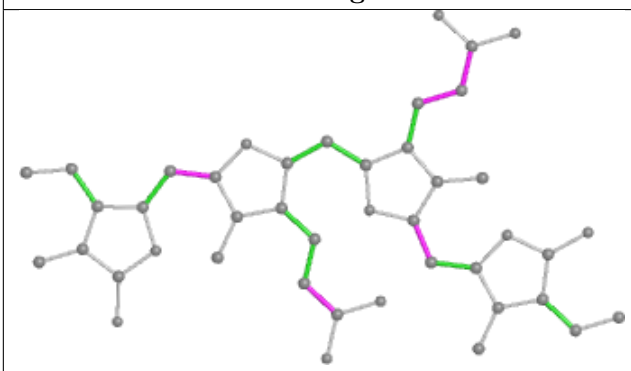


Bond angles



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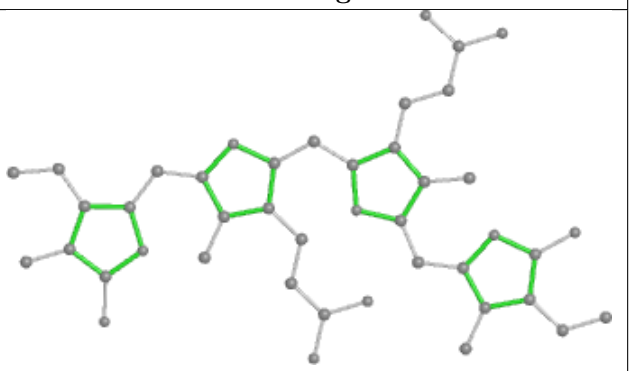
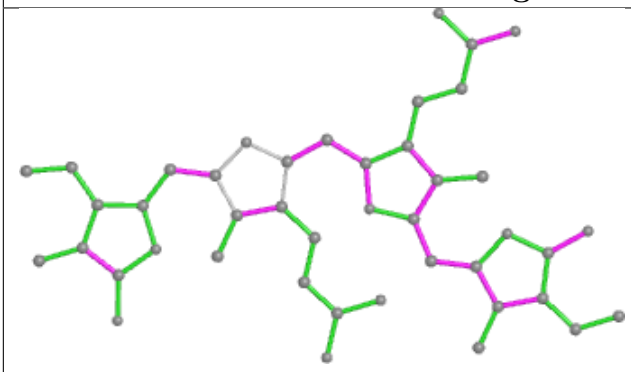


Rings

Ligand CYC X5 201



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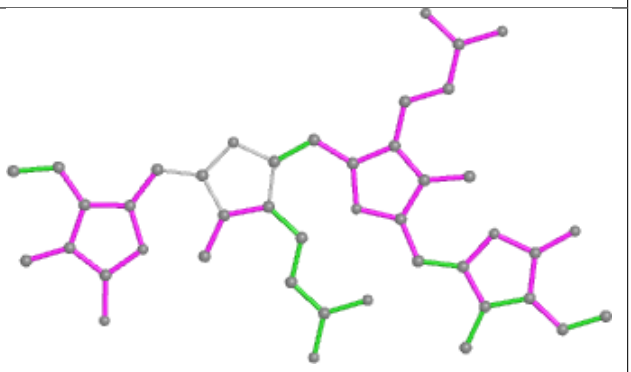
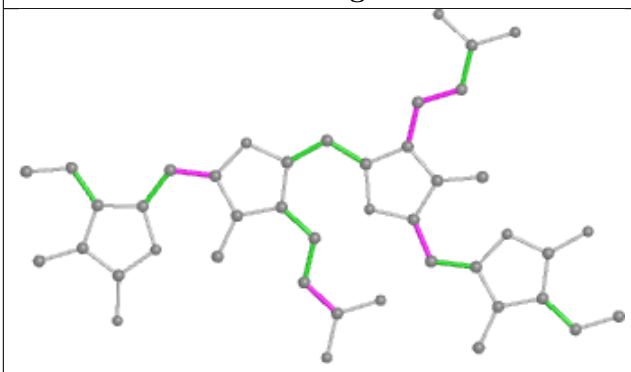


Bond angles



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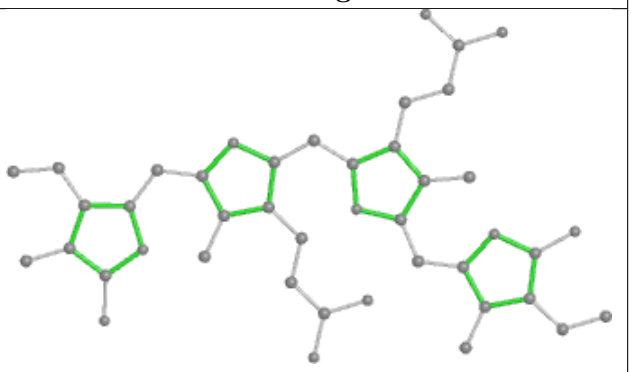
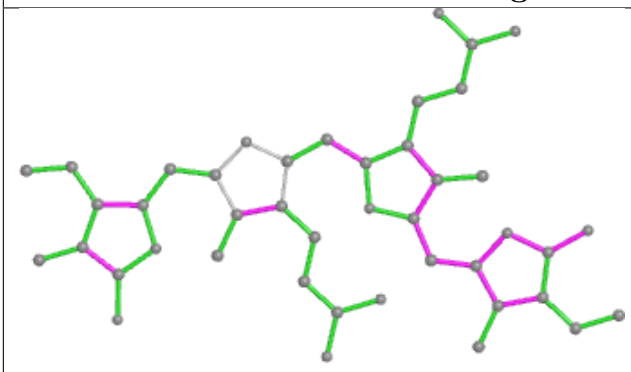


Rings

Ligand CYC I9 1001



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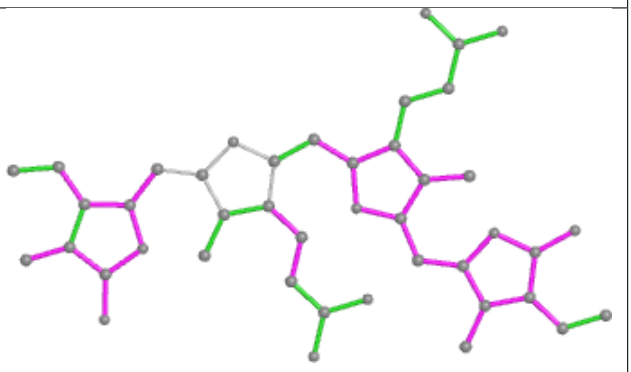
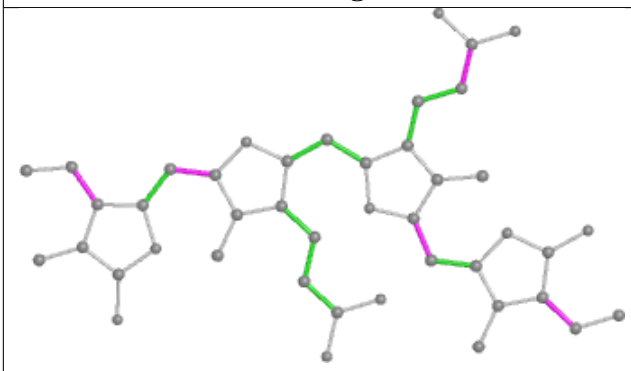
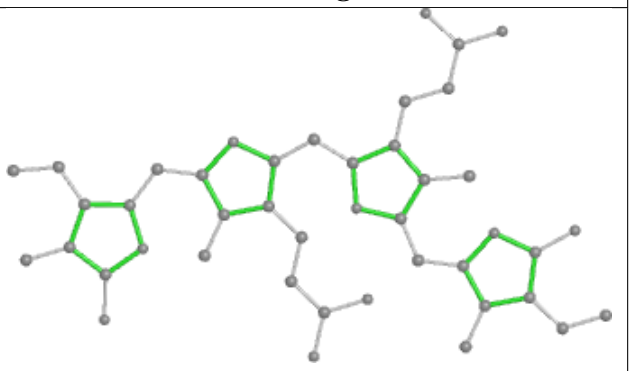


Bond angles

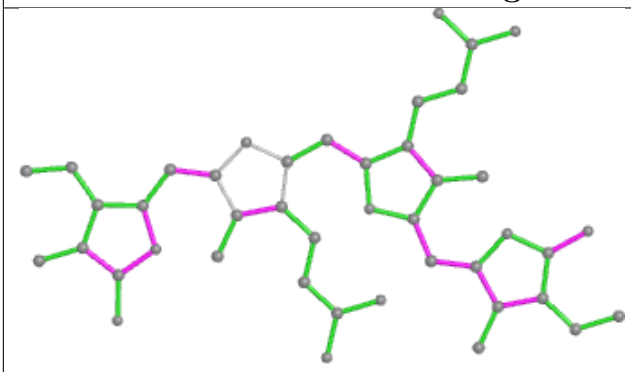


Torsions

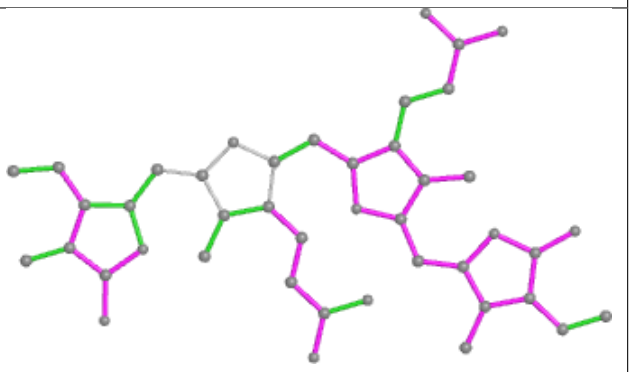


Rings

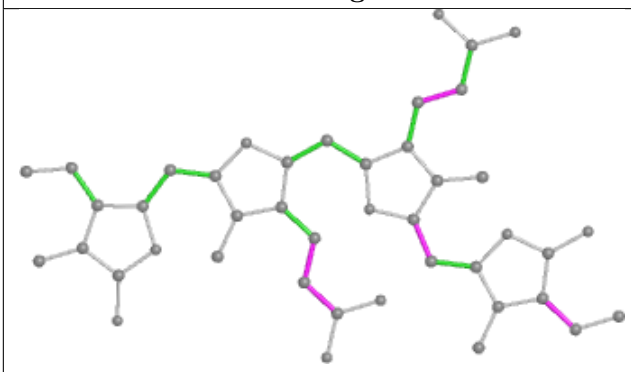
Ligand CYC U9 1001



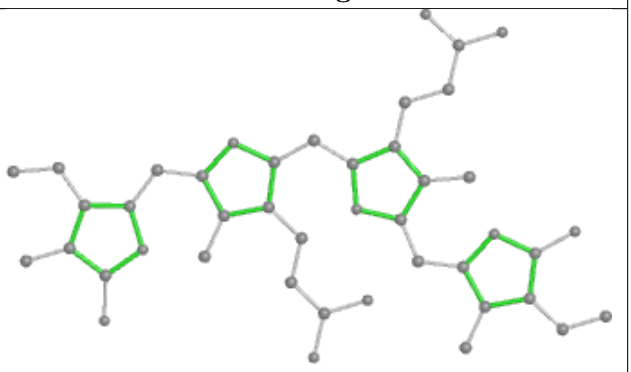
Bond lengths



Bond angles

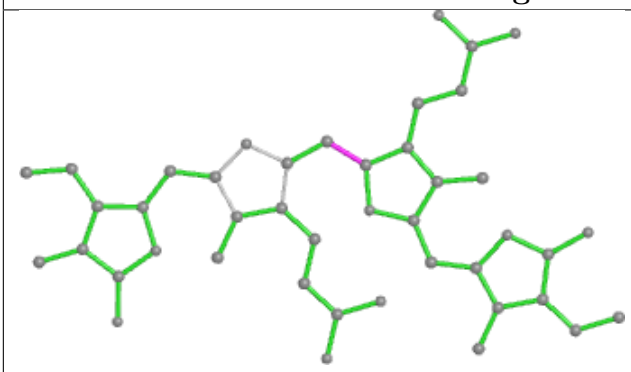


Torsions



Rings

Ligand CYC Q1 202



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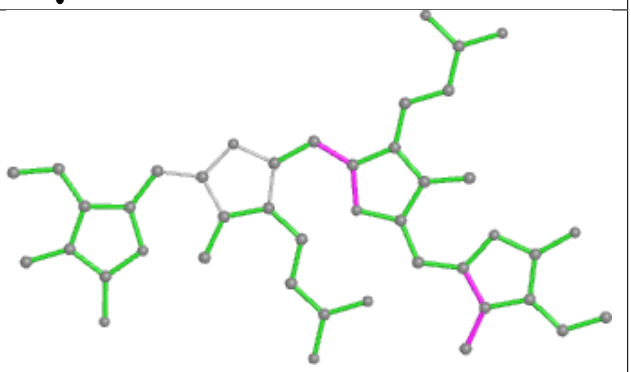

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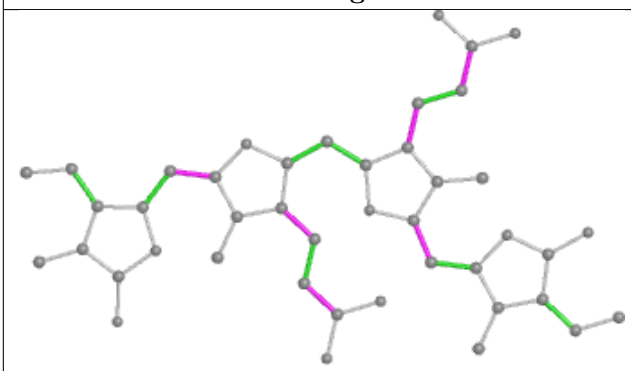

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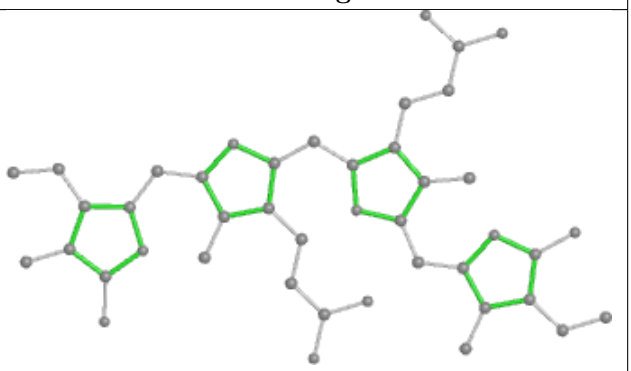
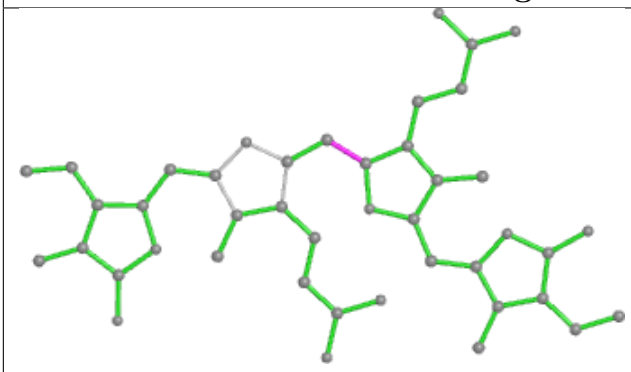


Rings

Ligand CYC E4 202



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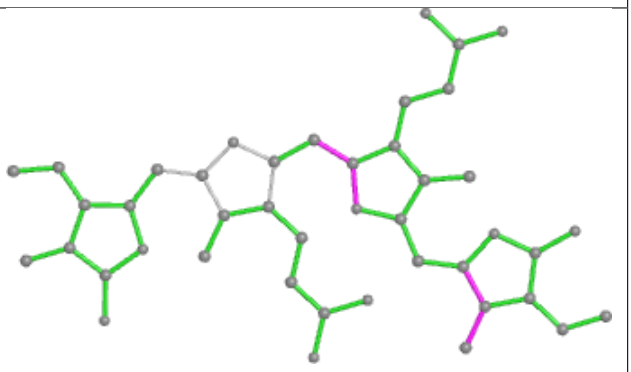

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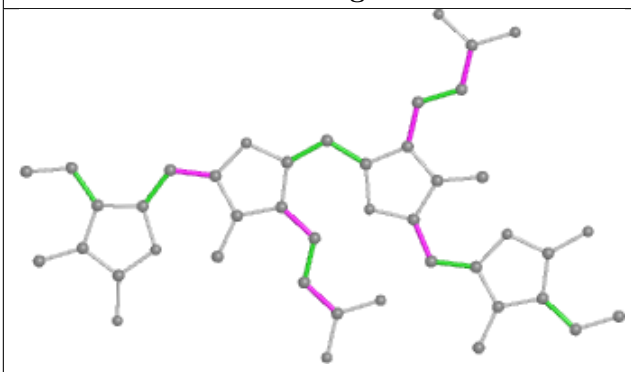

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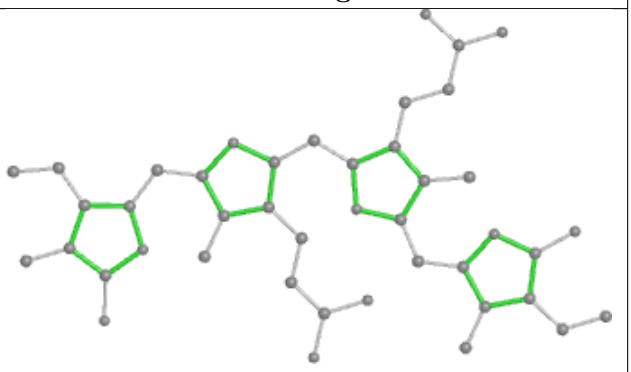
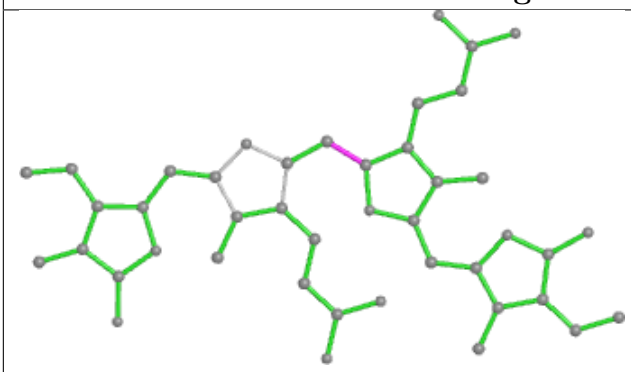


Rings

Ligand CYC T2 201



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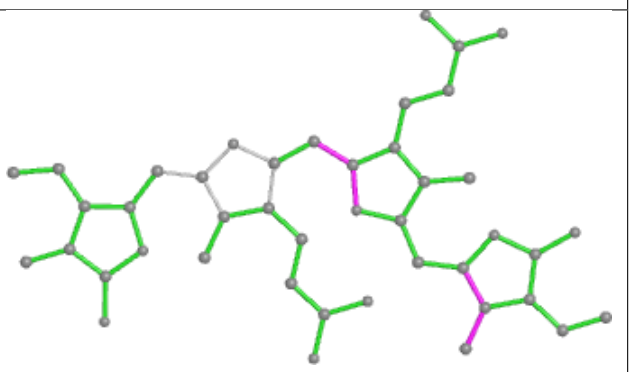

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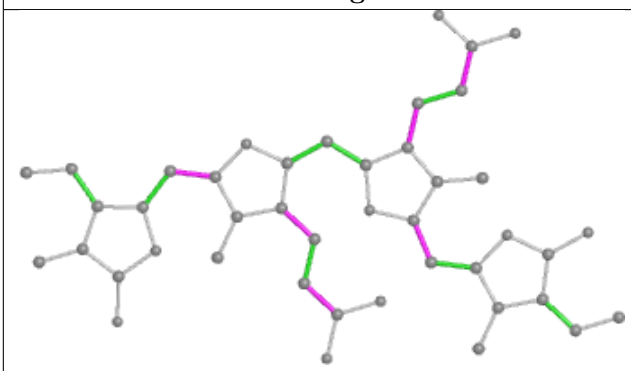
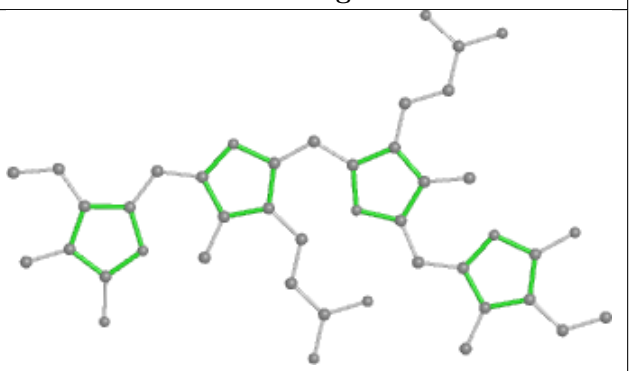
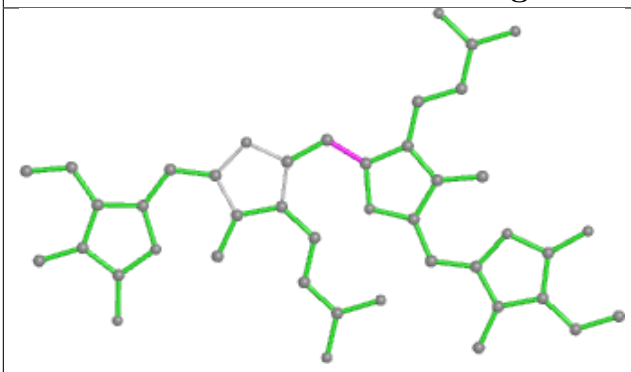


Torsions



Rings

Ligand CYC ZA 202



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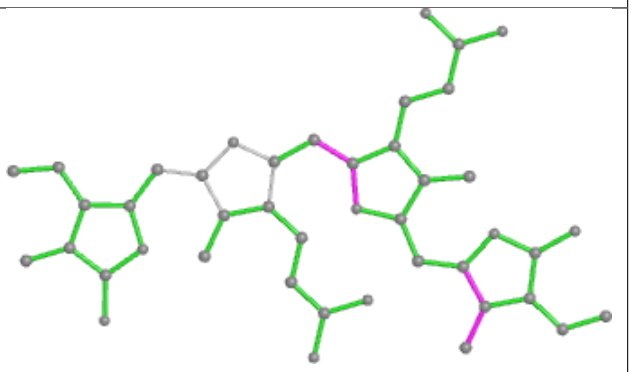

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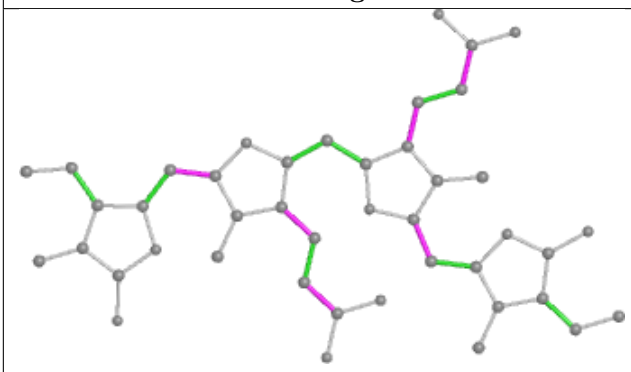

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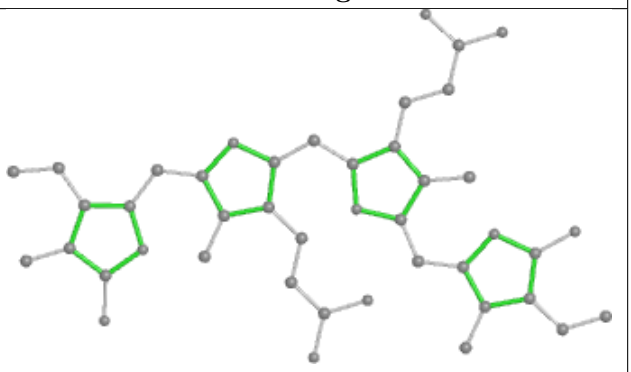
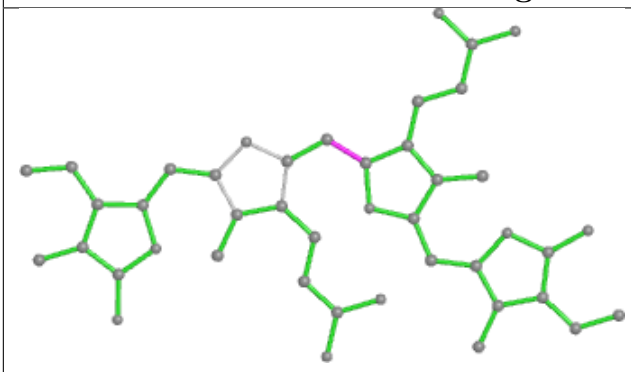


Rings

Ligand CYC Z4 201



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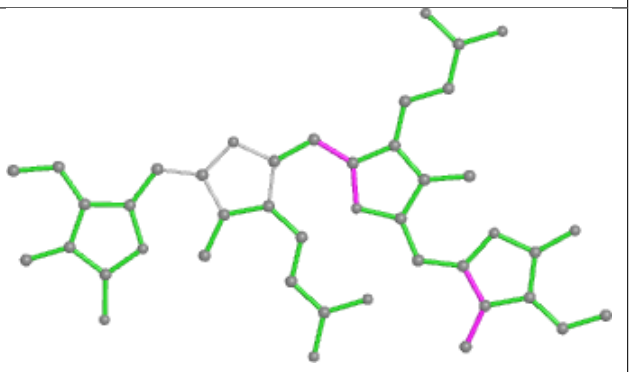

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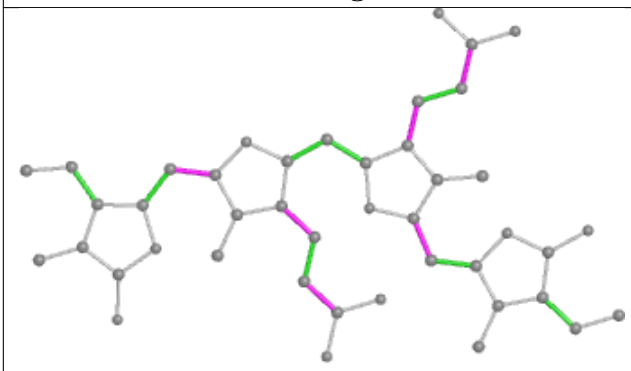

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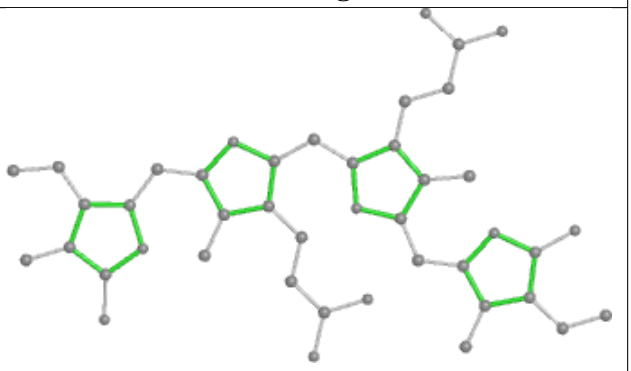
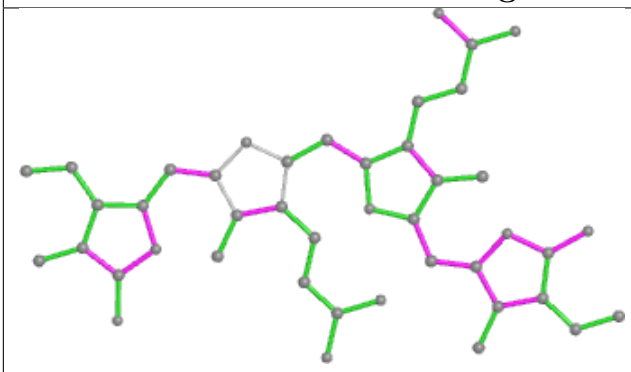


Rings

Ligand CYC W5 1001



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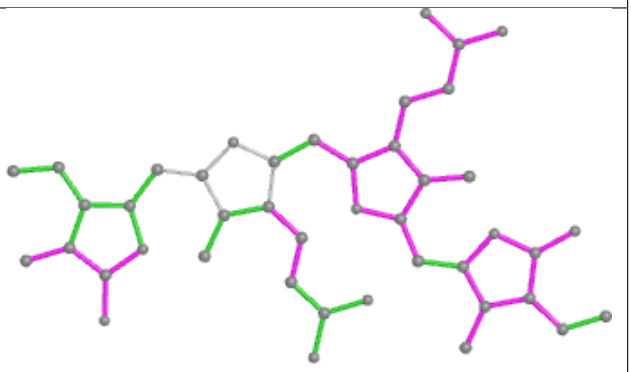
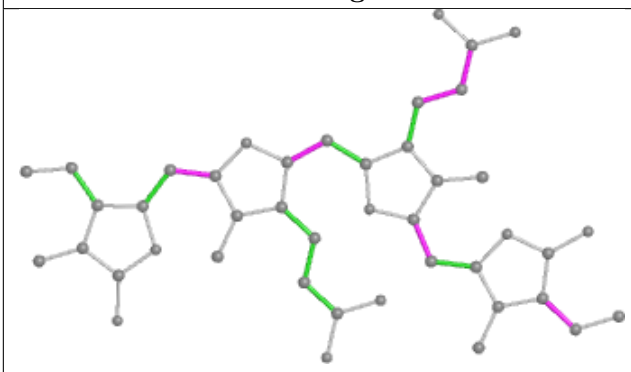


Bond angles



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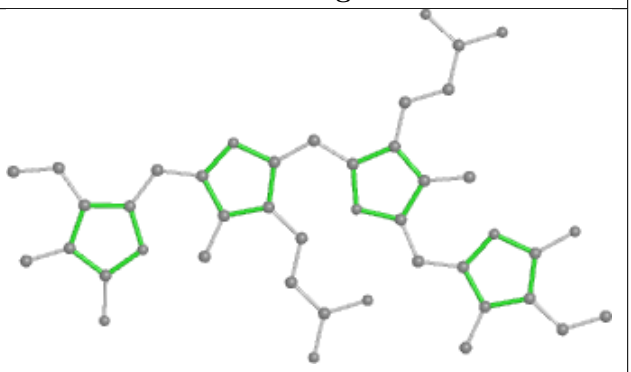
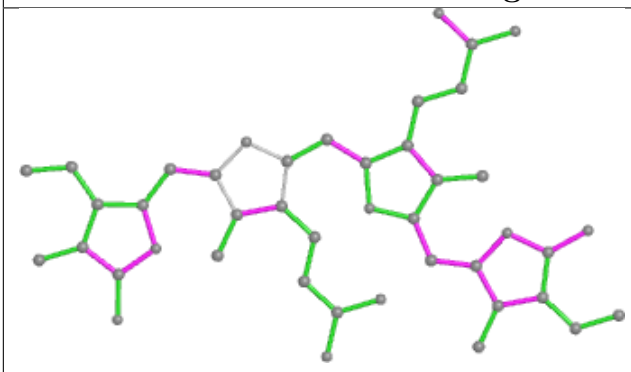


Rings

Ligand CYC D5 1001



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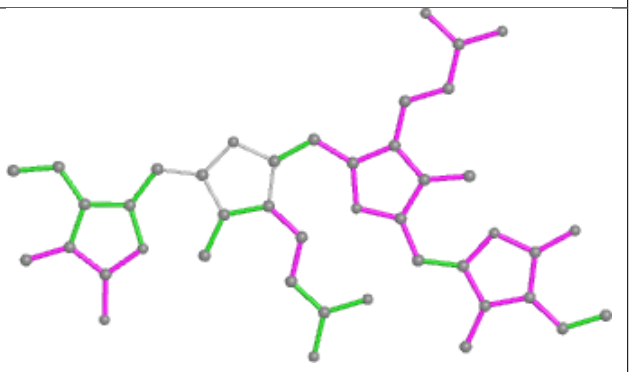

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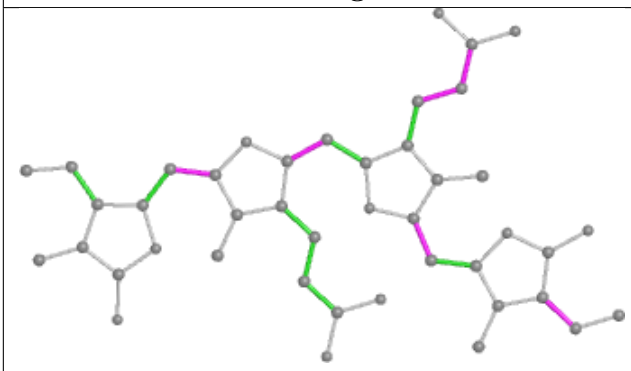

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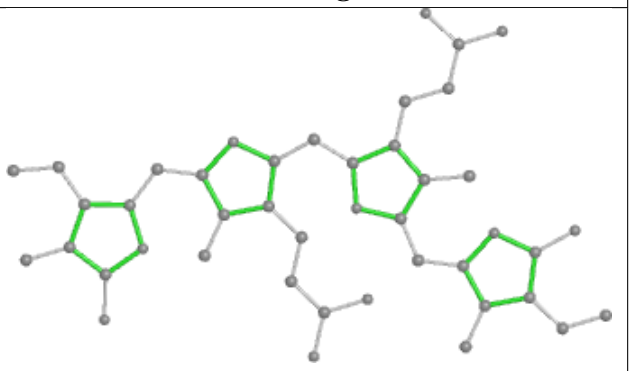
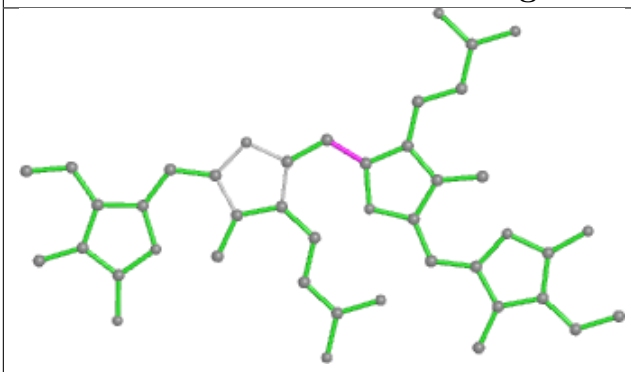


Rings

Ligand CYC I6 202



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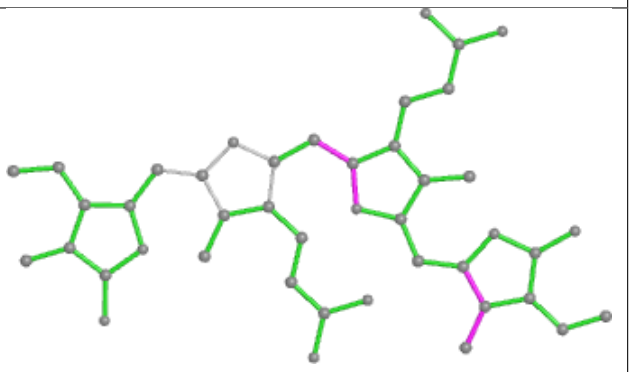
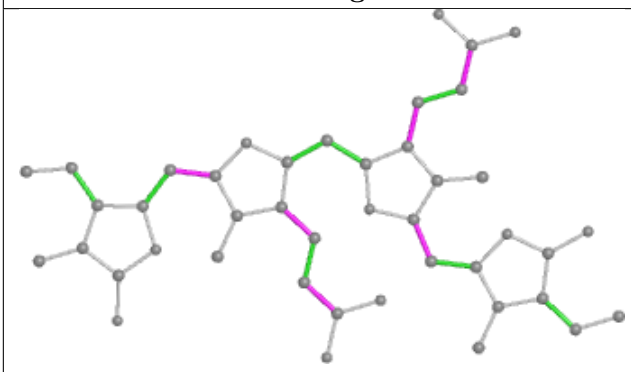


Bond angles



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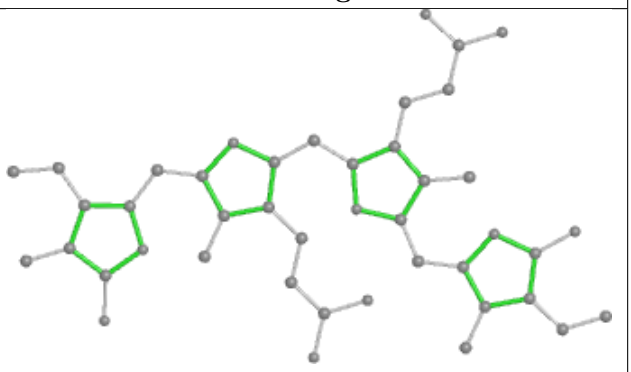
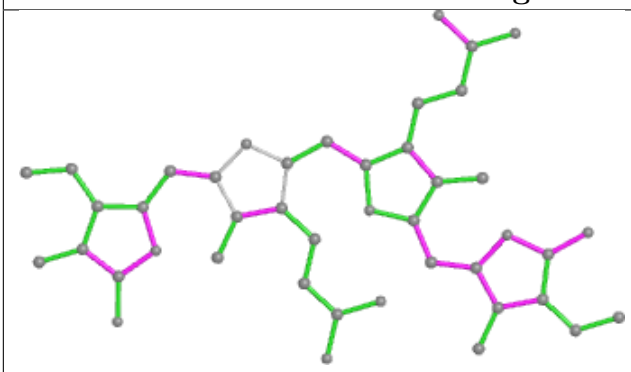


Rings

Ligand CYC V1 202



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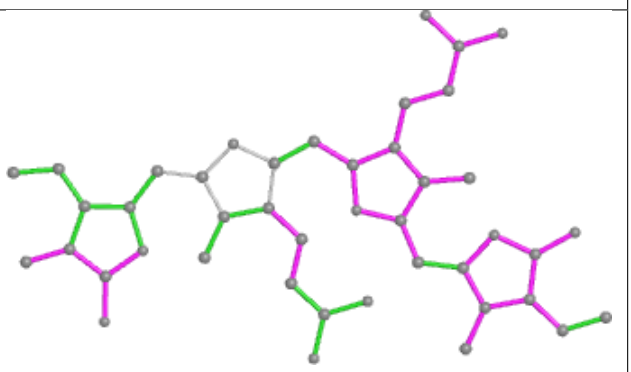

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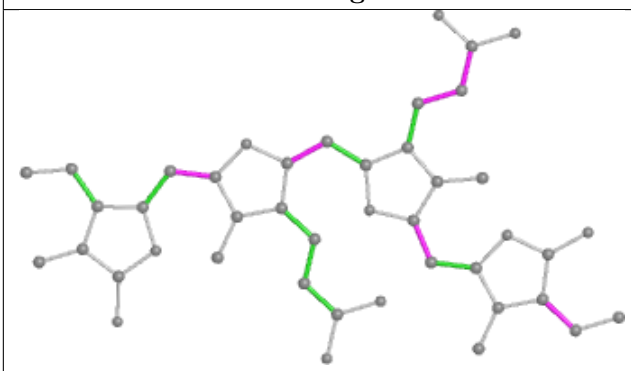

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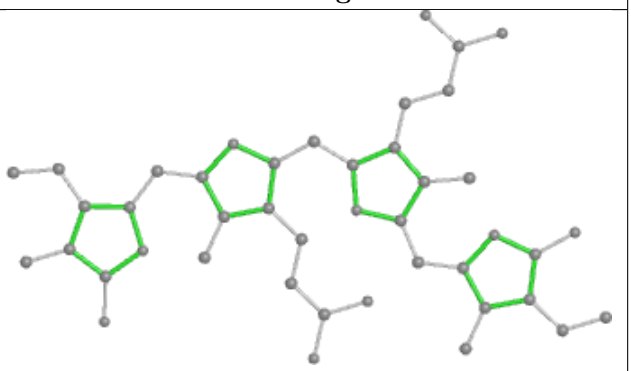
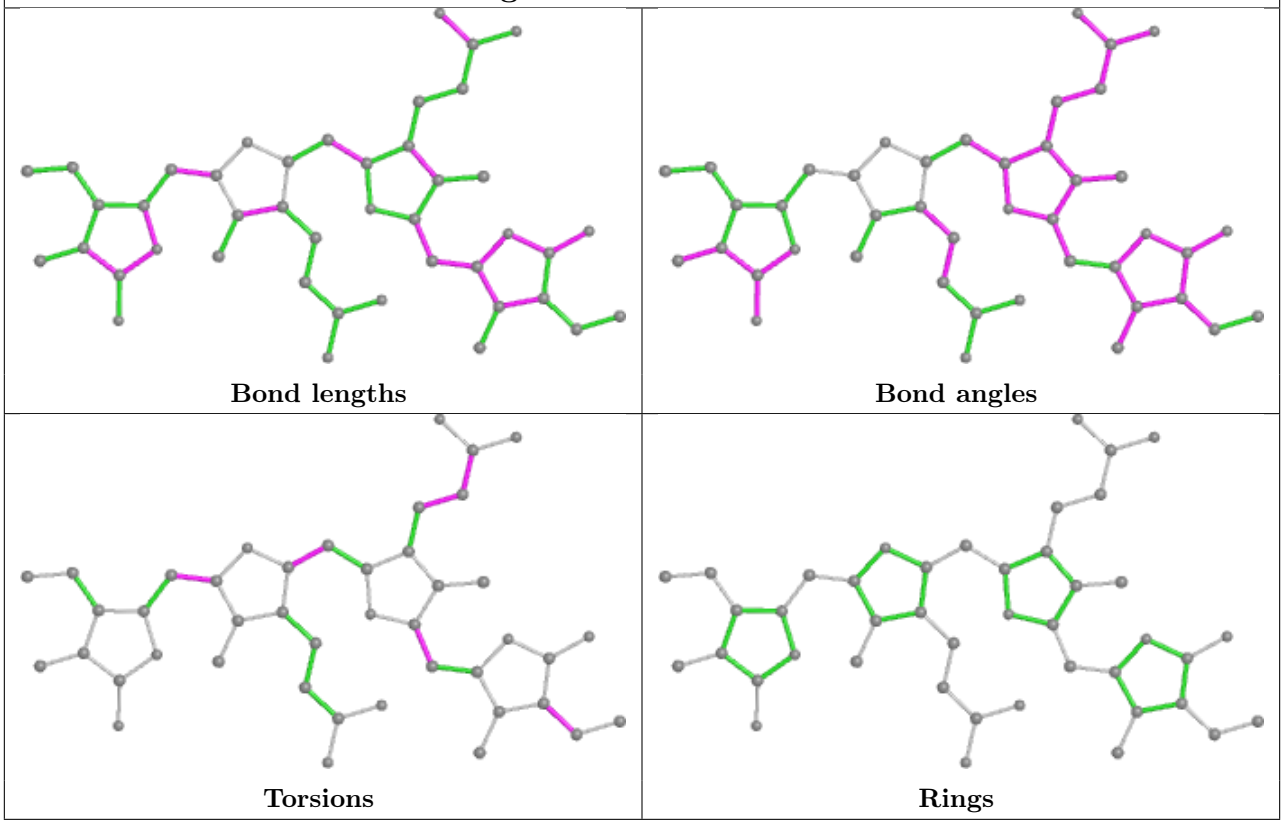


Rings

Ligand CYC DA 1001



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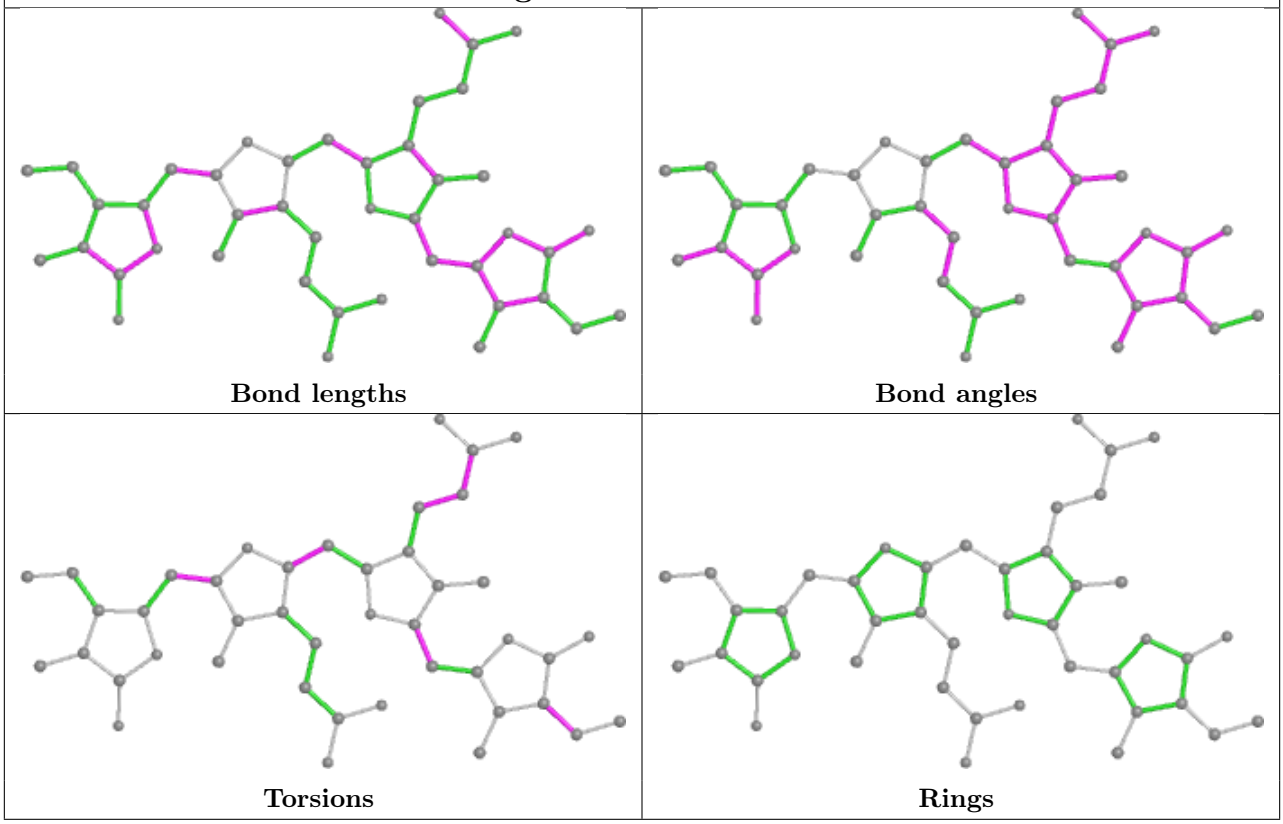

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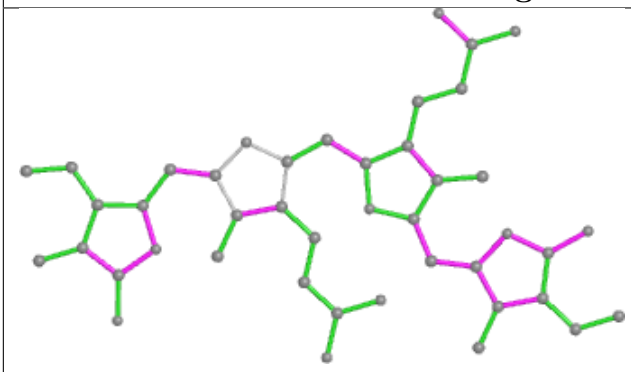

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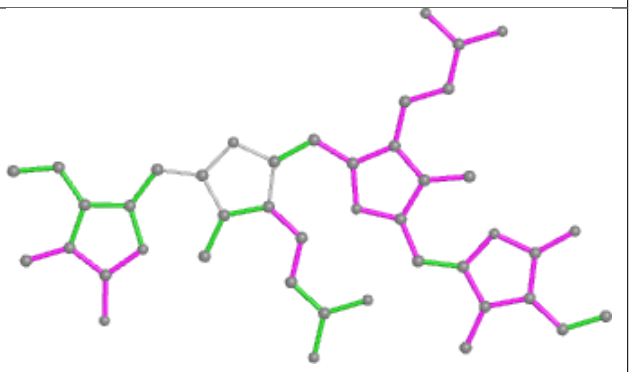
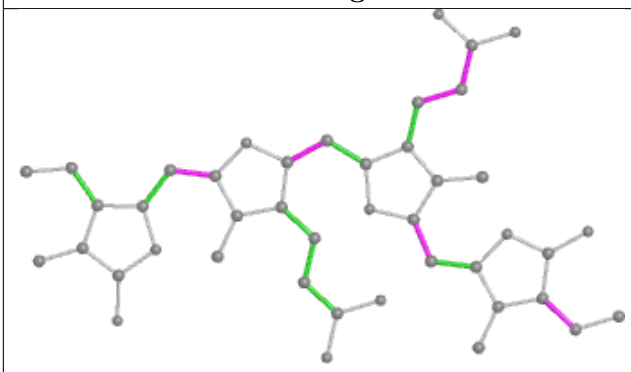


Bond angles



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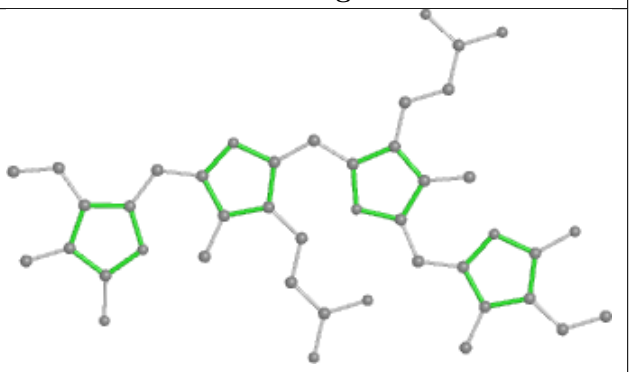
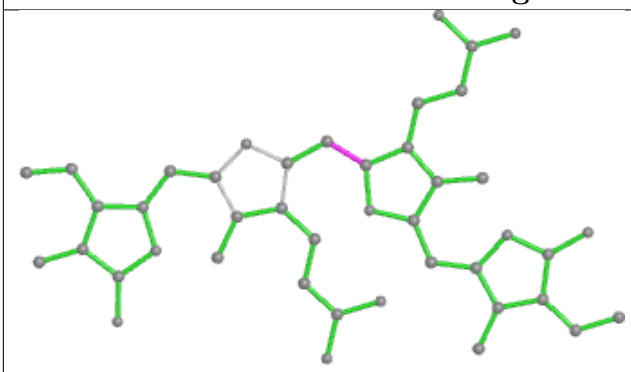


Rings

Ligand CYC K6 201



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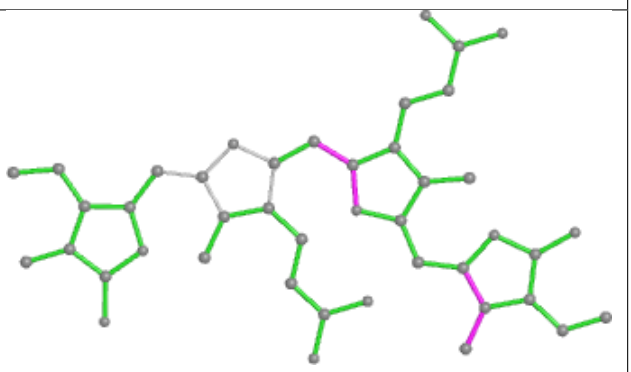
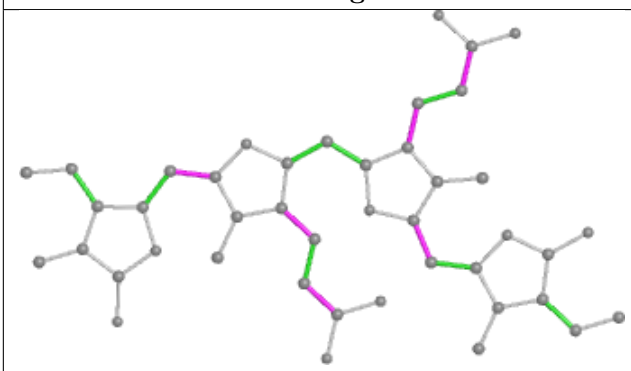


Bond angles



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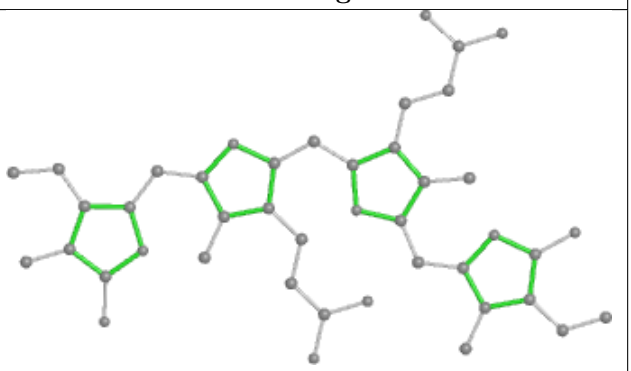
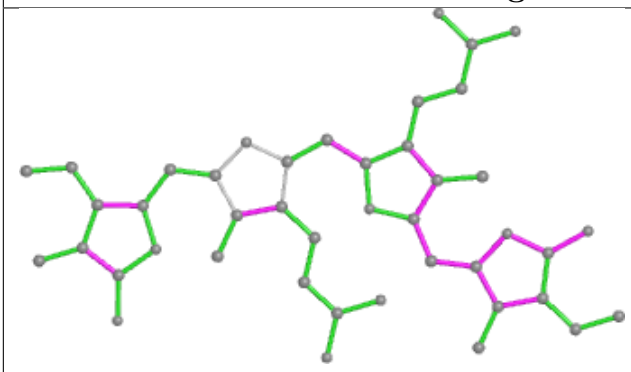


Rings

Ligand CYC k9 1001



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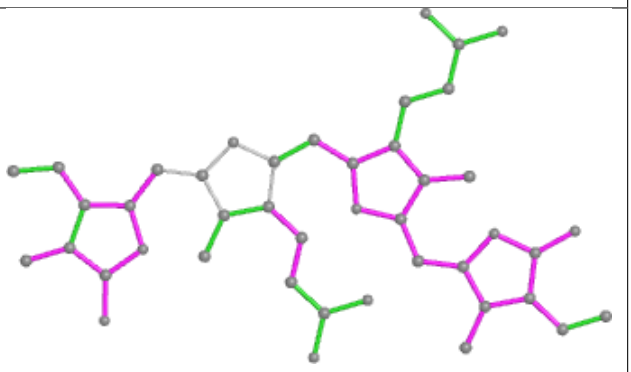
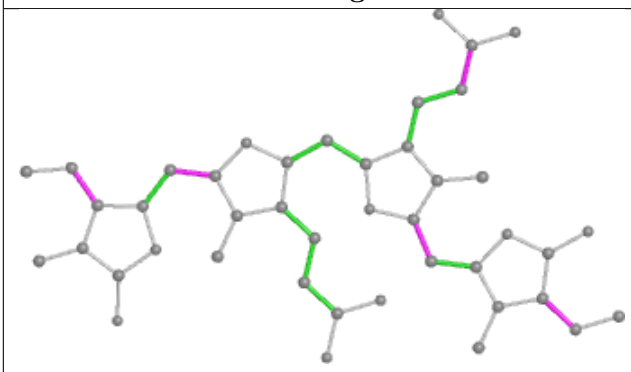
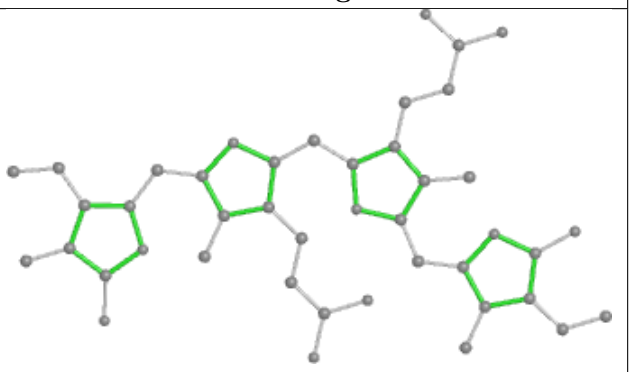


Bond angles

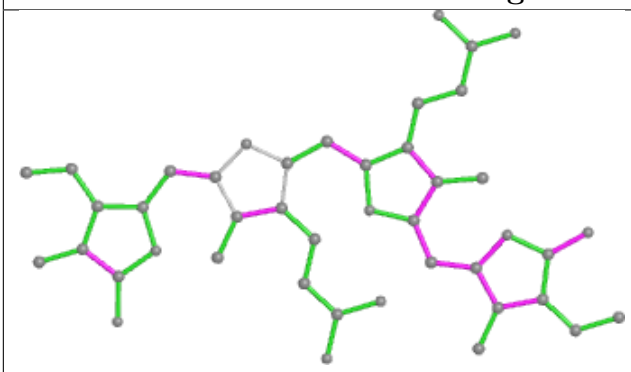


Torsions

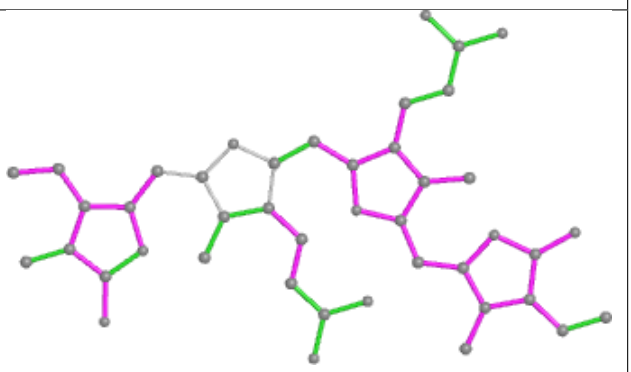


Rings

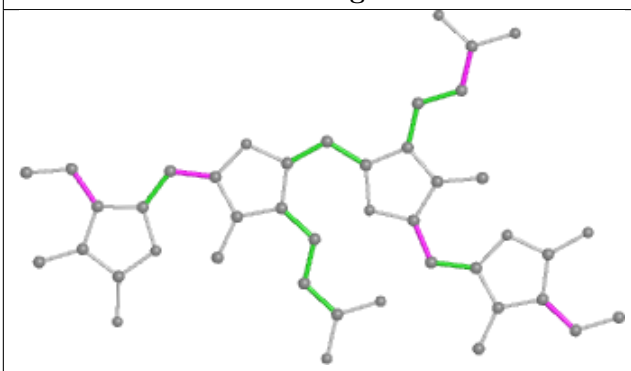
Ligand CYC S8 1001



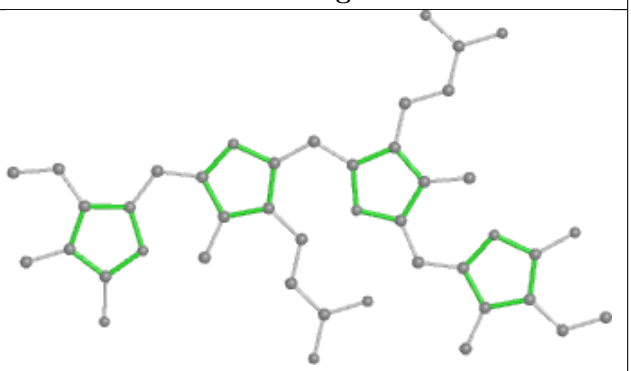
Bond lengths



Bond angles

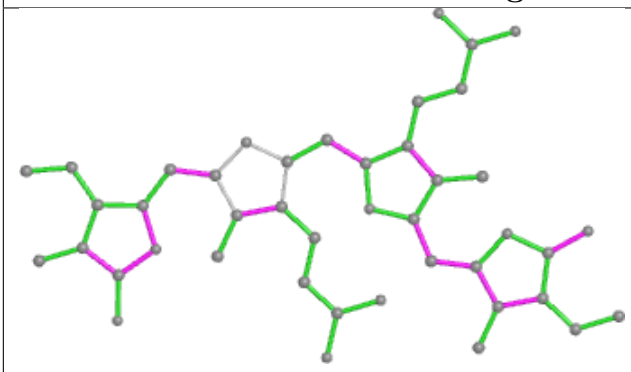


Torsions



Rings

Ligand CYC L9 1001



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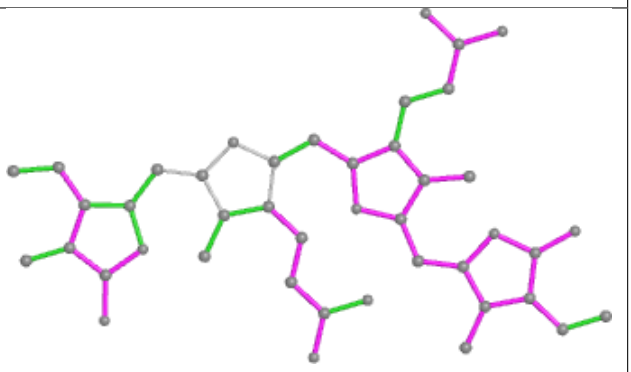
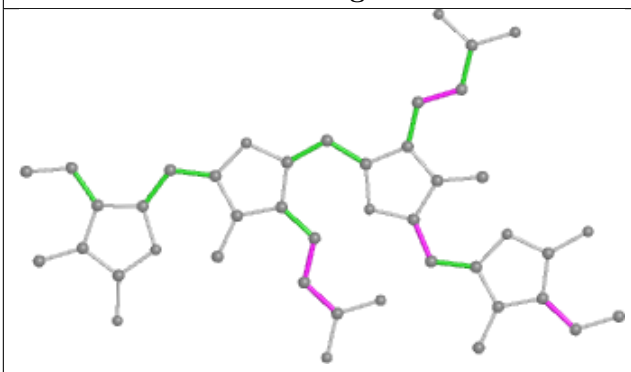


Bond angles



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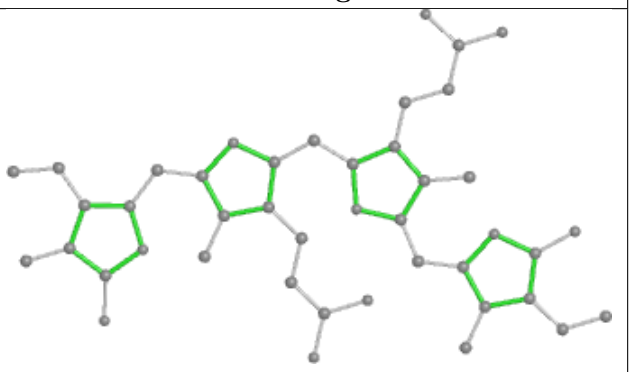
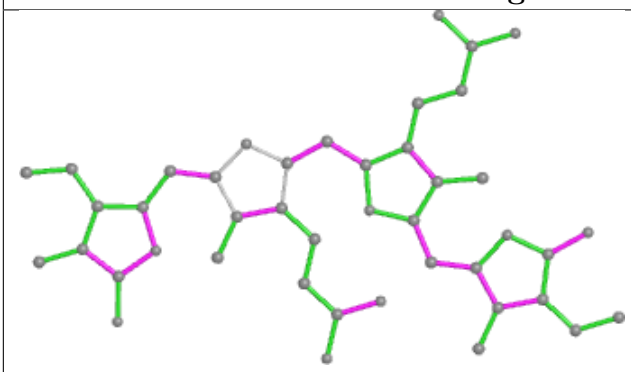


Rings

Ligand CYC k8 1001



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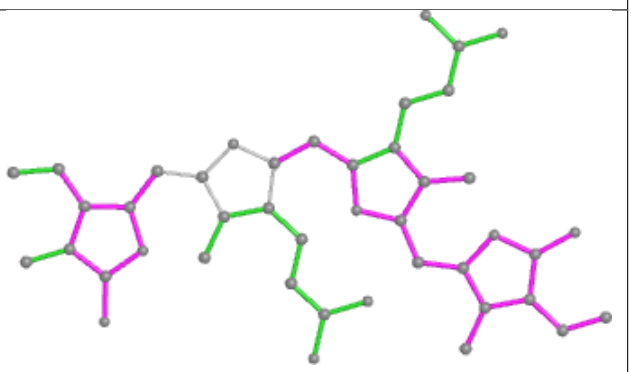

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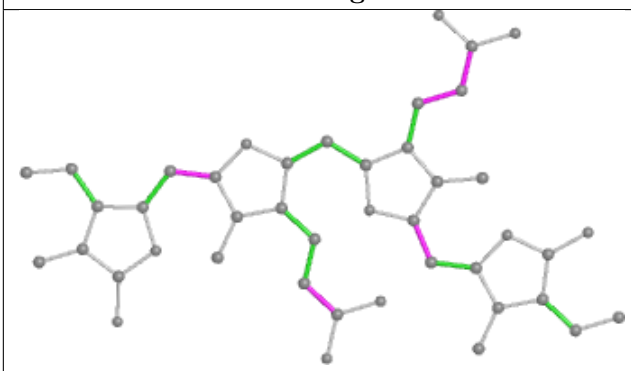

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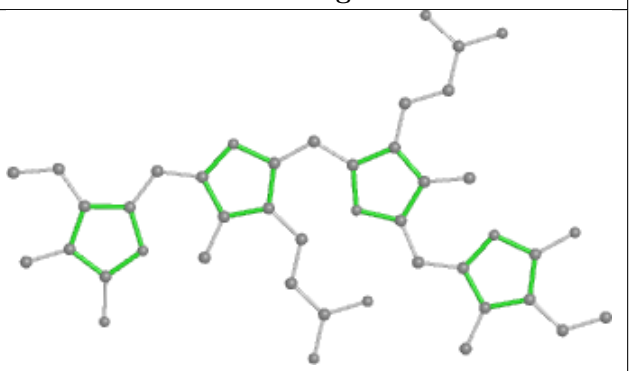
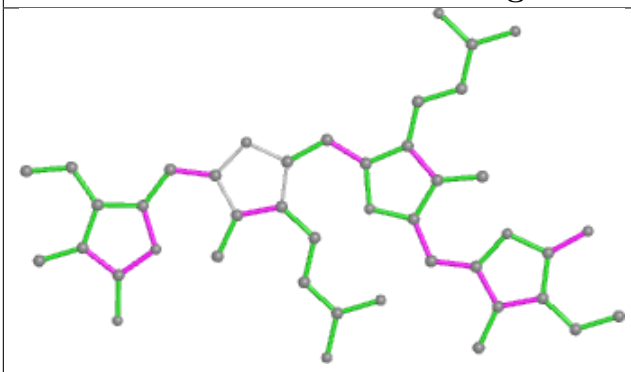


Rings

Ligand CYC p9 1001



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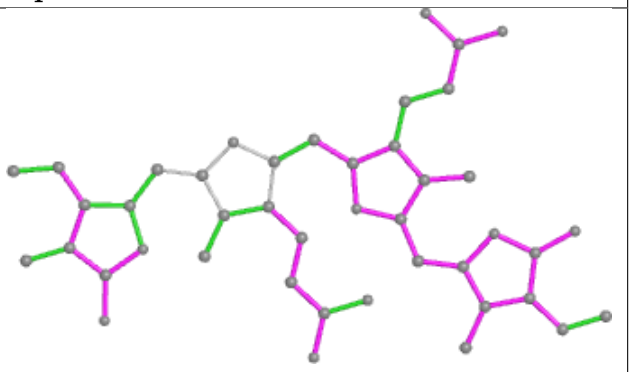
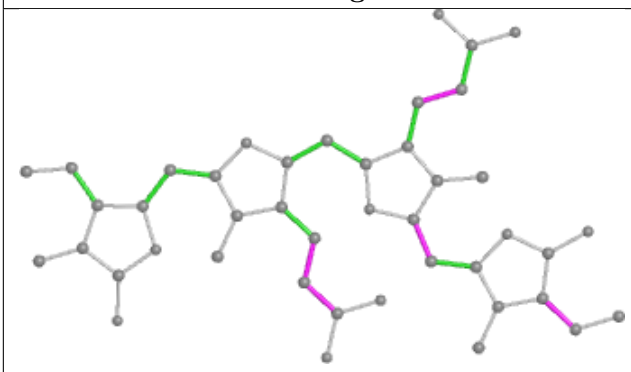


Bond angles



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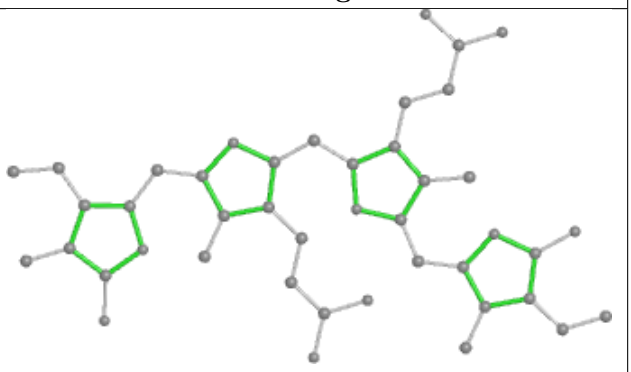
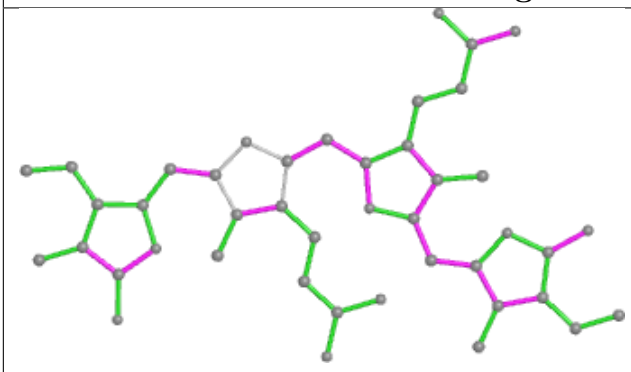


Rings

Ligand CYC Z5 201



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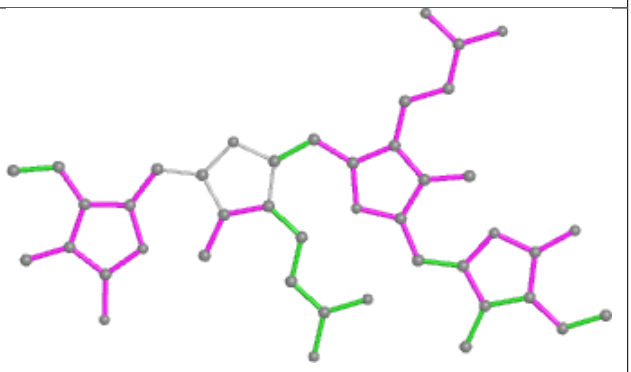

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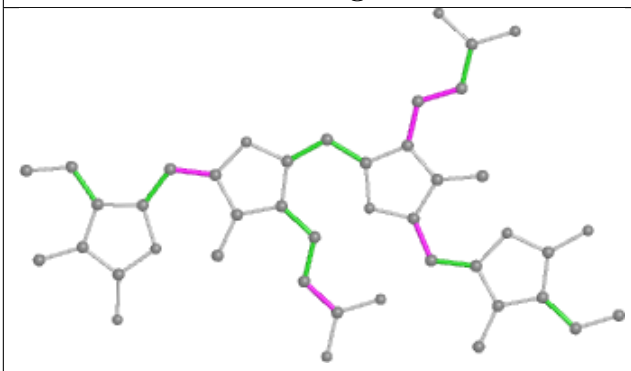

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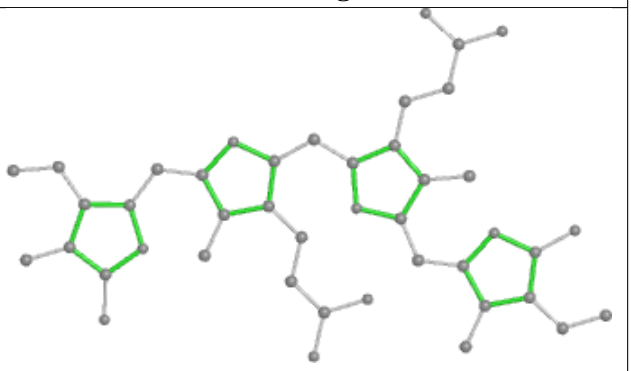
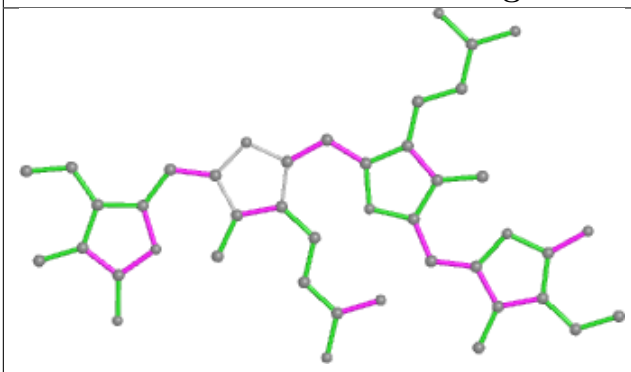


Rings

Ligand CYC K8 1001



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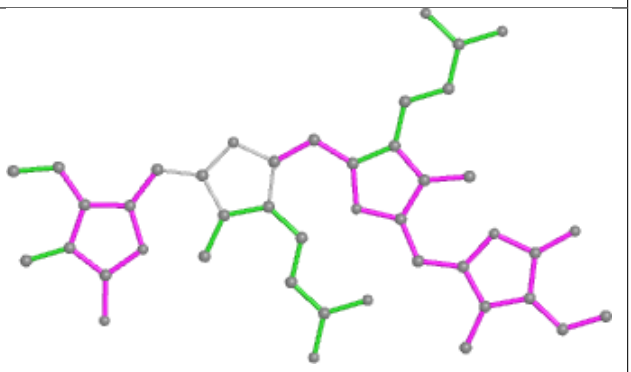
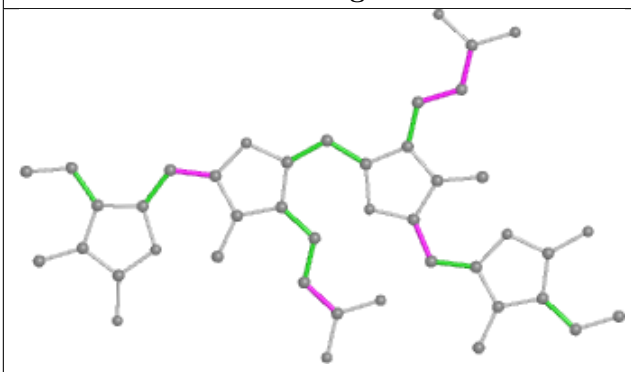


Bond angles



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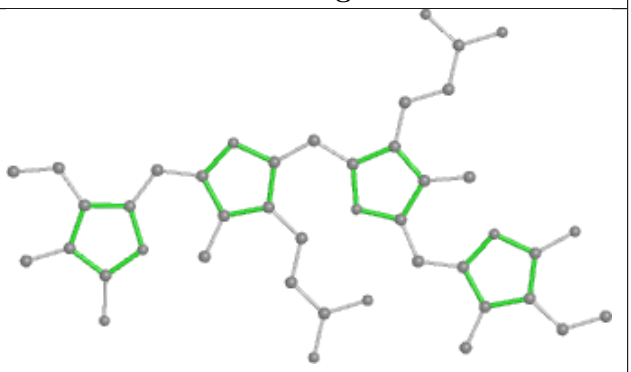
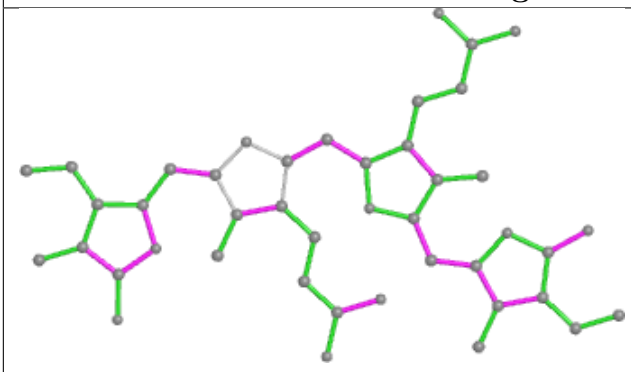


Rings

Ligand CYC f8 1001



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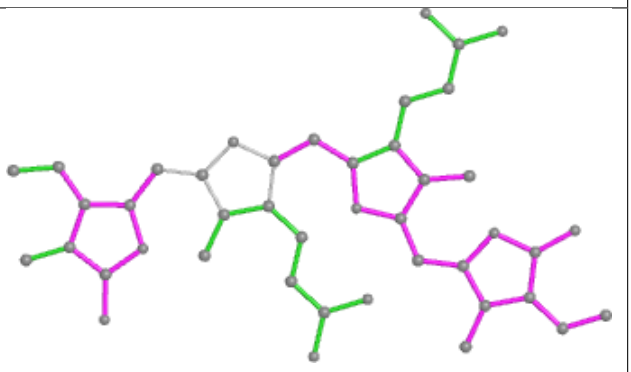

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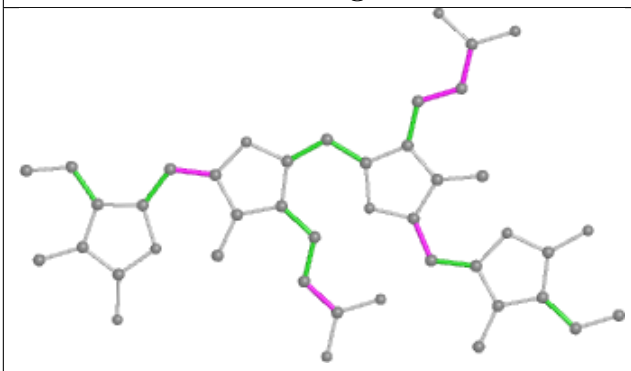

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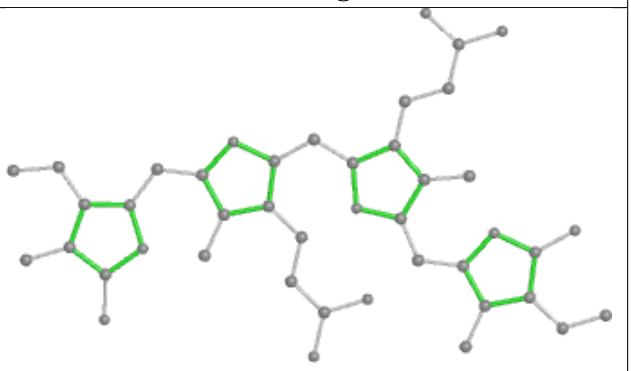
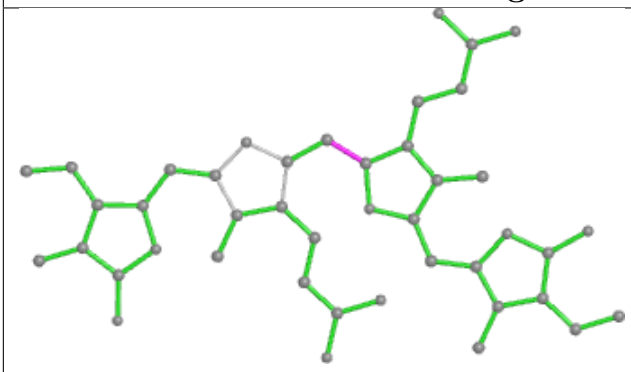


Rings

Ligand CYC W6 201



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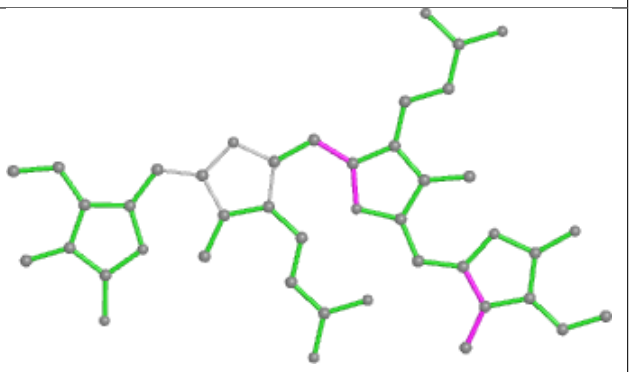

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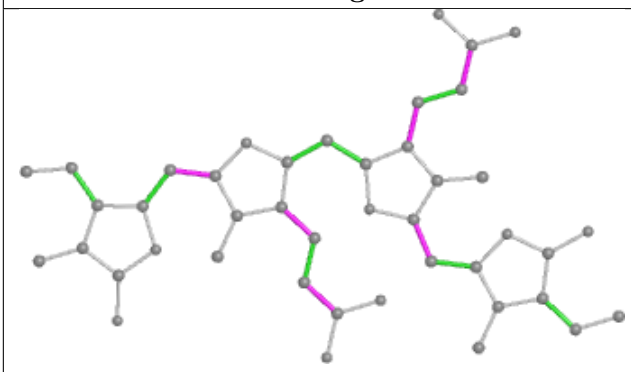

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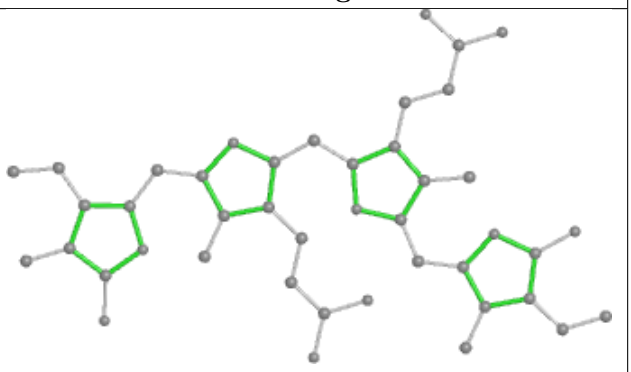
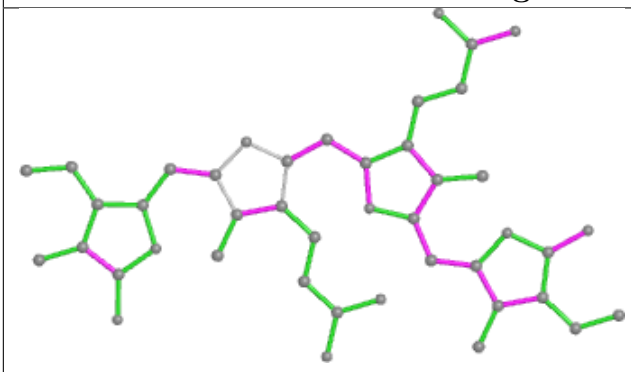


Rings

Ligand CYC A5 304



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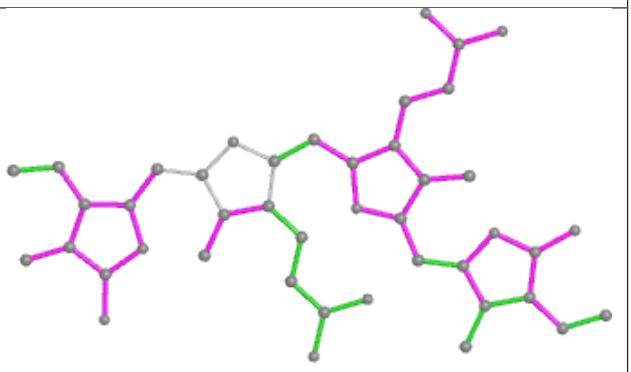
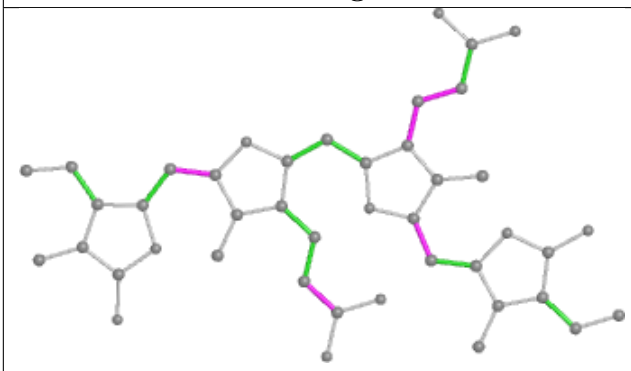
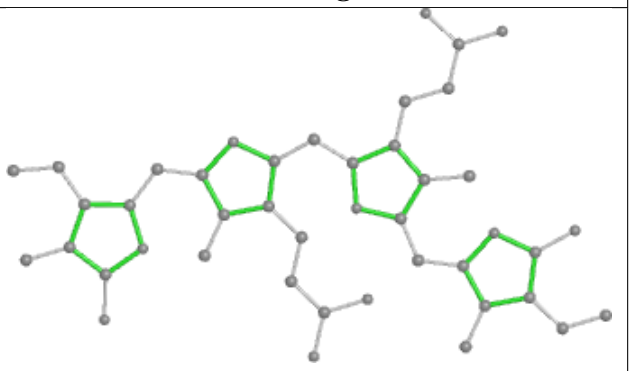


Bond angles

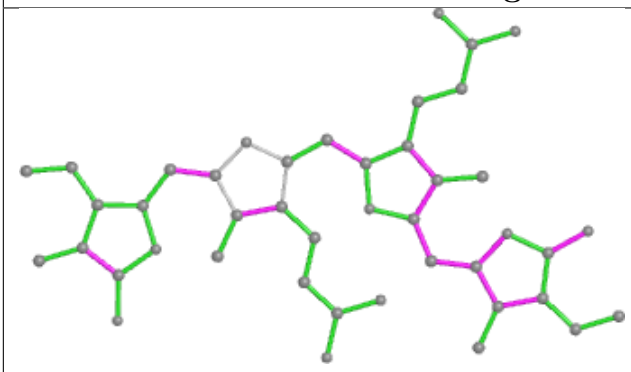


Torsions



Rings

Ligand CYC V8 1001



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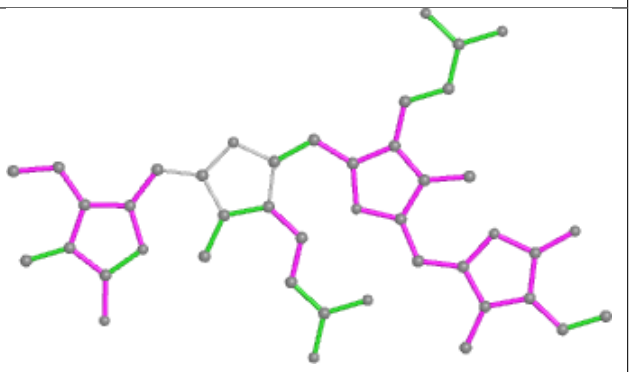

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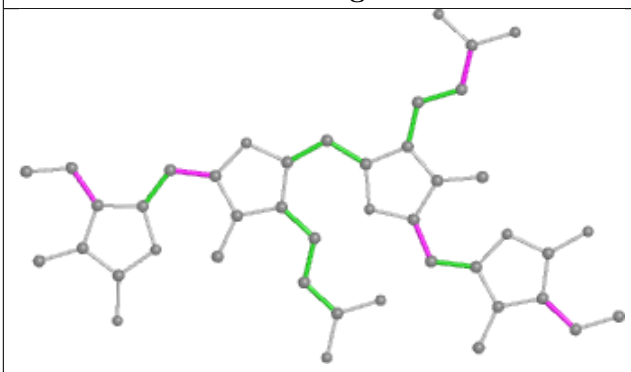

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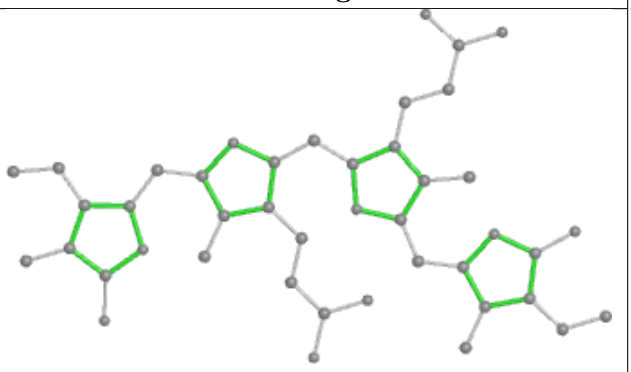
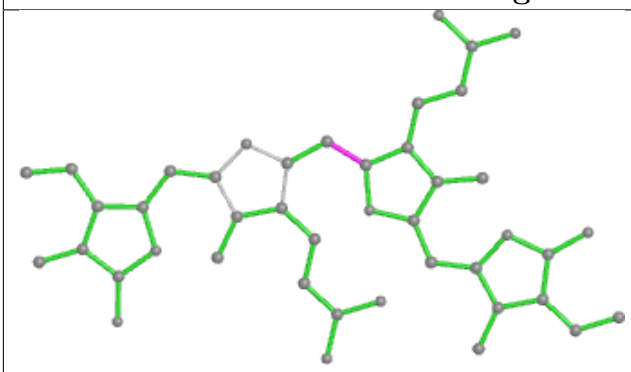


Rings

Ligand CYC C1 302



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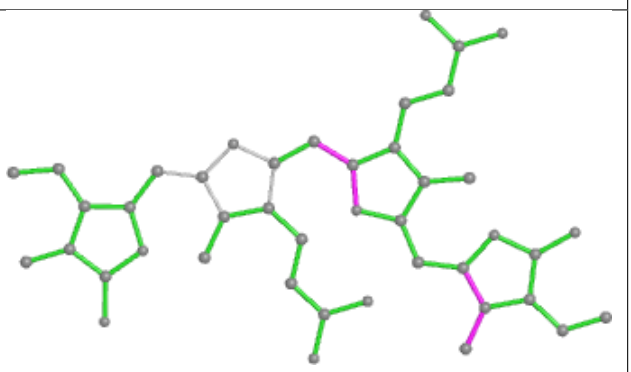
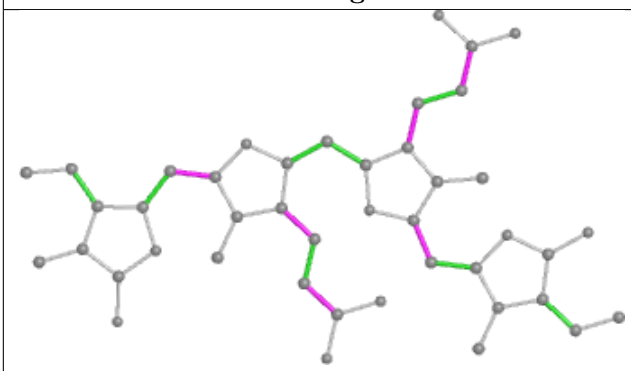


Bond angles



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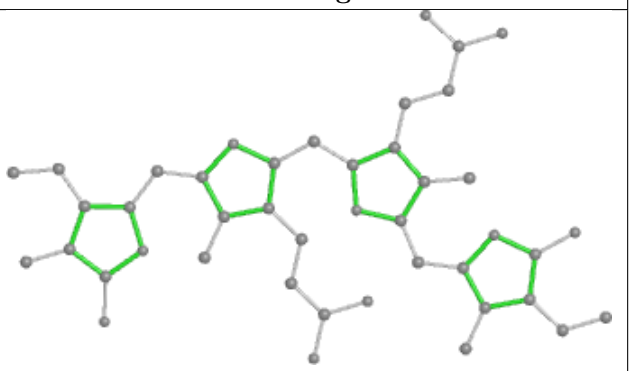
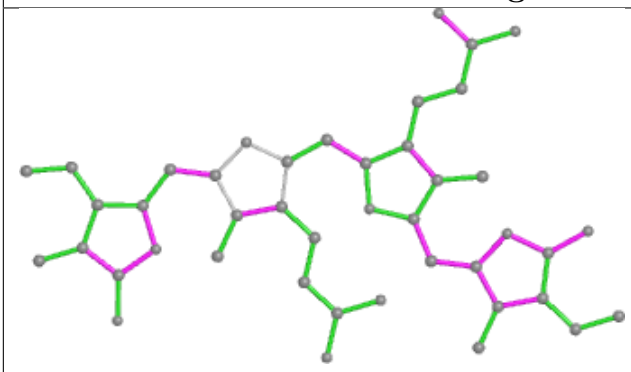


Rings

Ligand CYC W2 202



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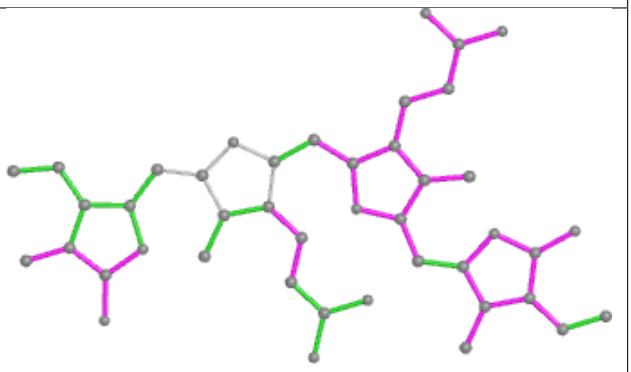
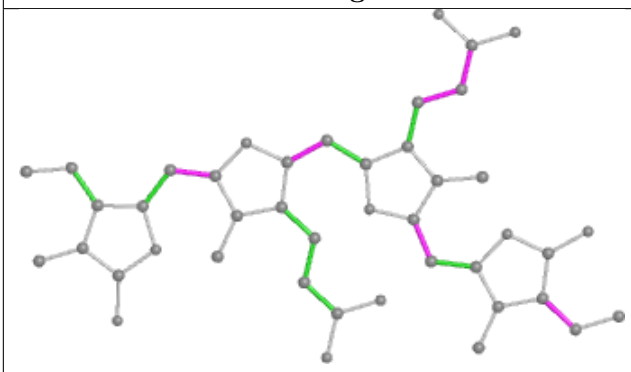


Bond angles



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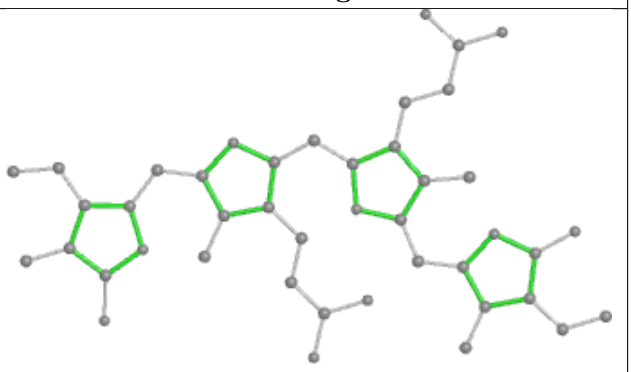
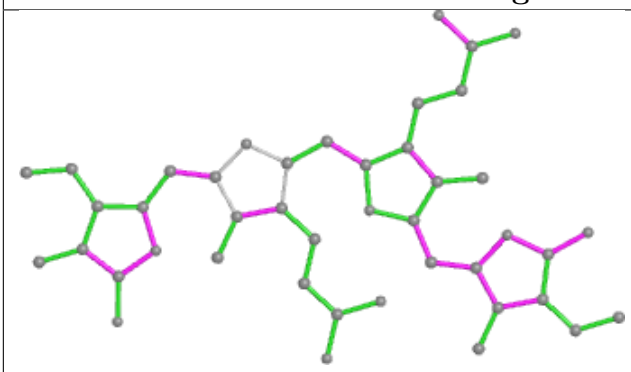


Rings

Ligand CYC N6 302



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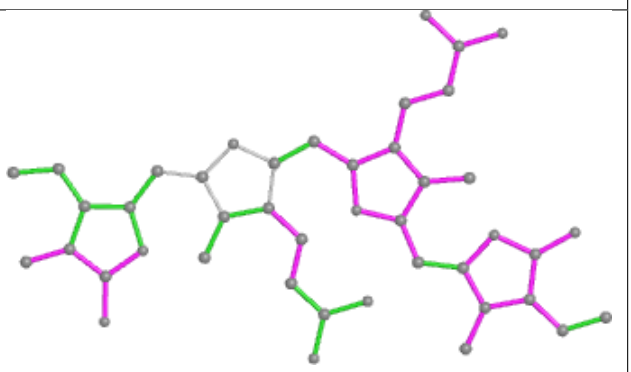
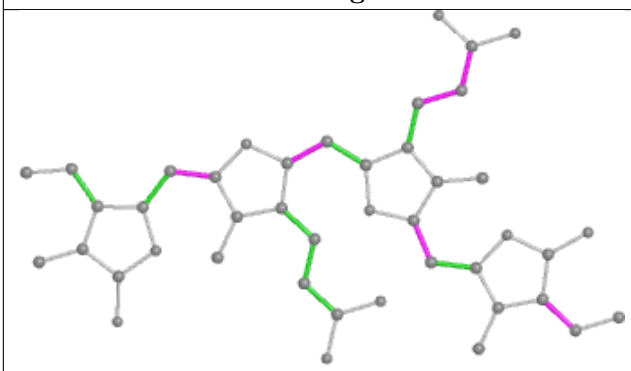
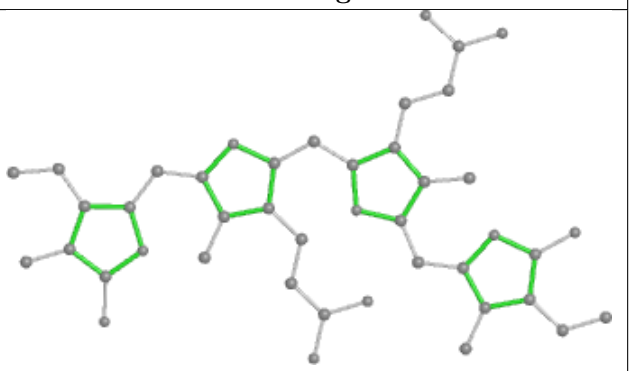


Bond angles

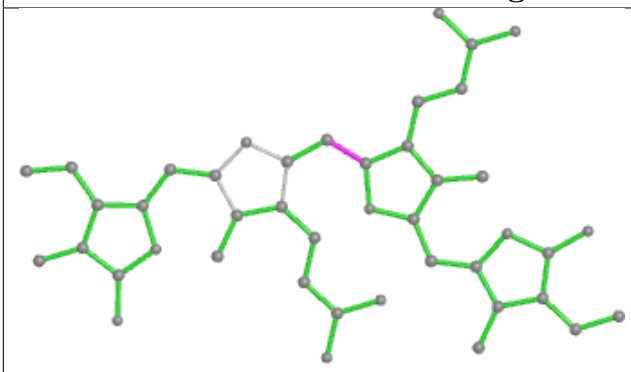


Torsions

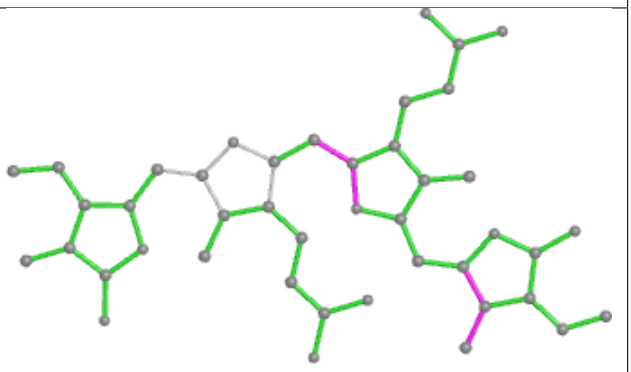


Rings

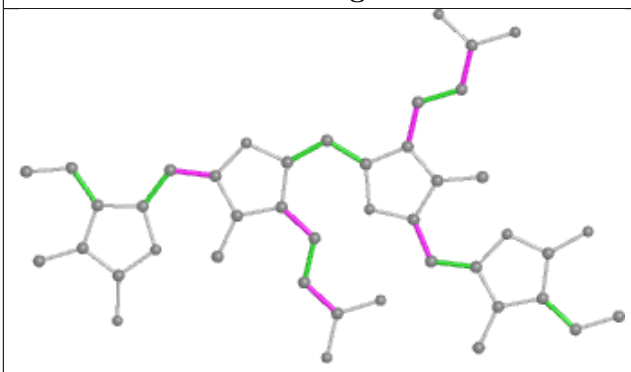
Ligand CYC W2 203



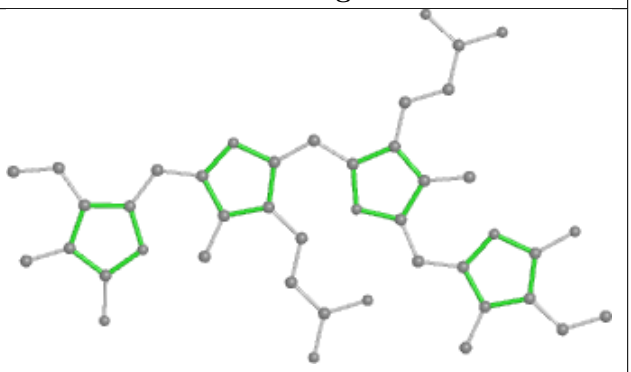
Bond lengths



Bond angles

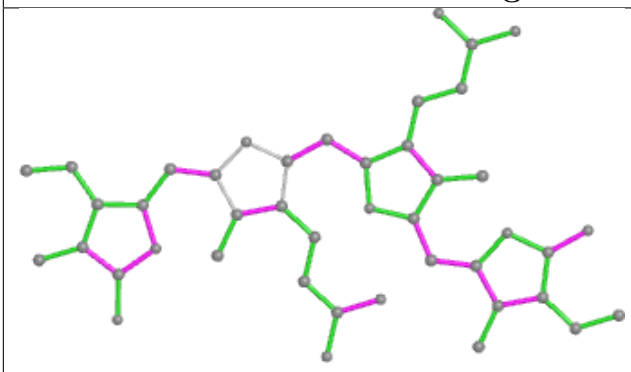


Torsions

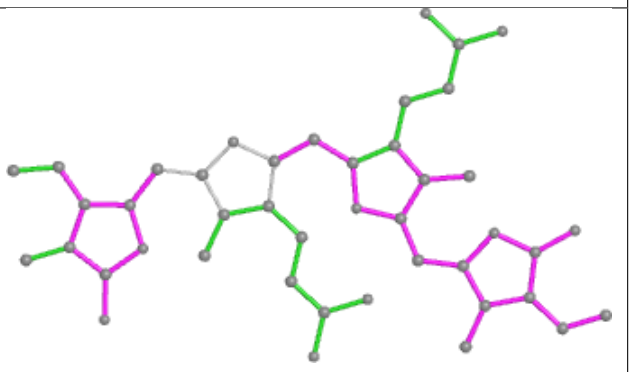


Rings

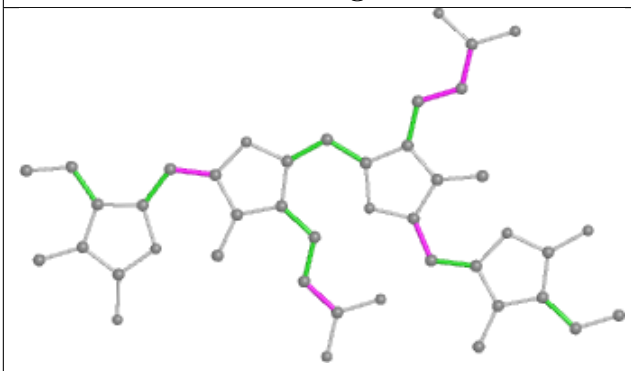
Ligand CYC D8 1001



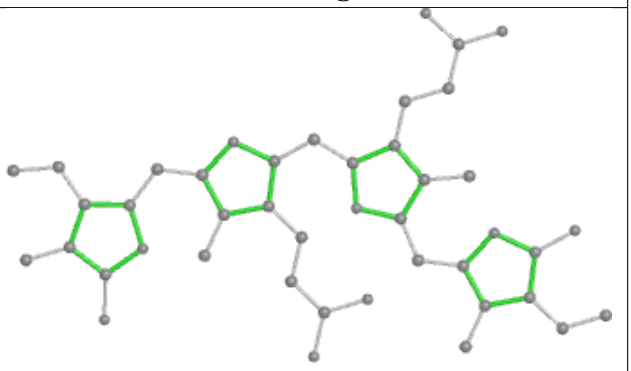
Bond lengths



Bond angles

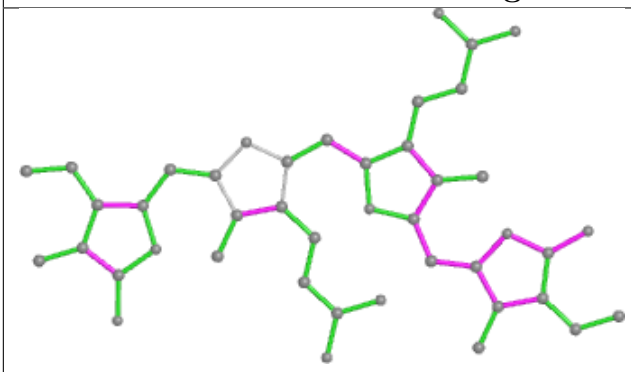


Torsions



Rings

Ligand CYC A9 1001



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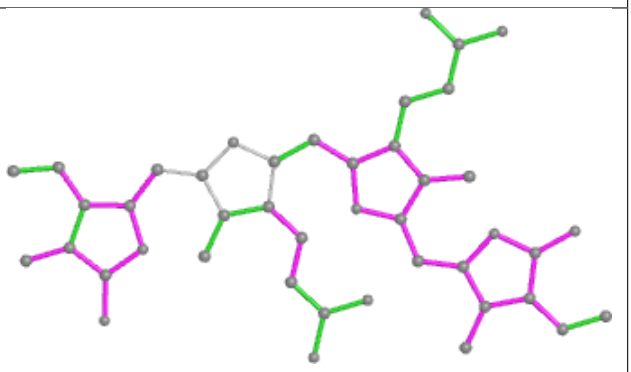

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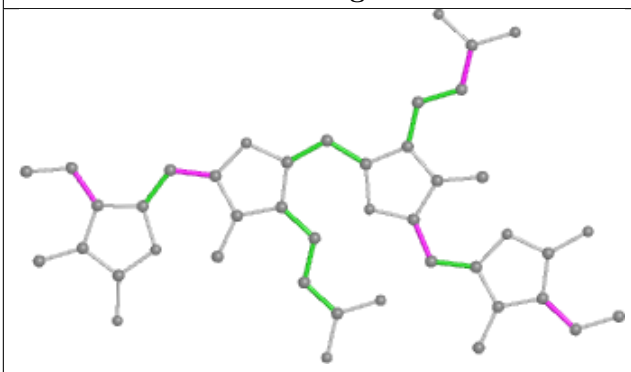

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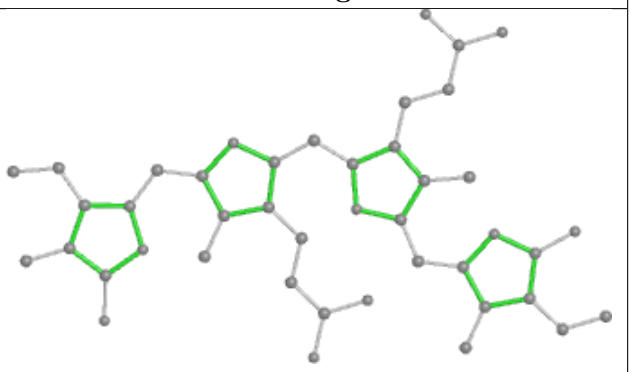
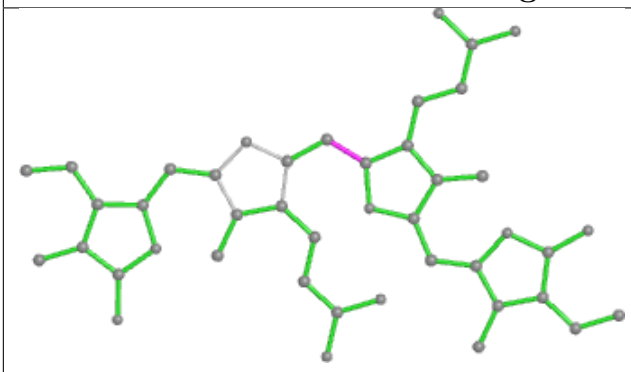


Rings

Ligand CYC I3 202



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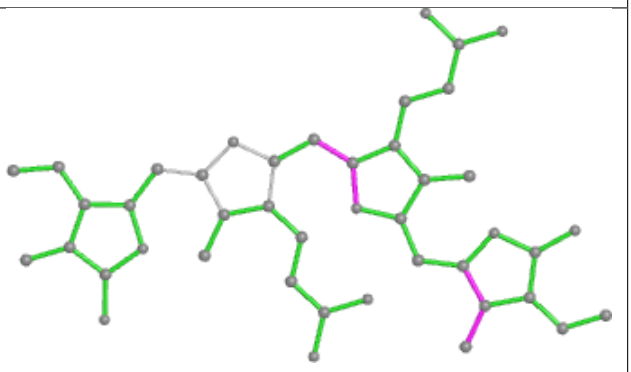

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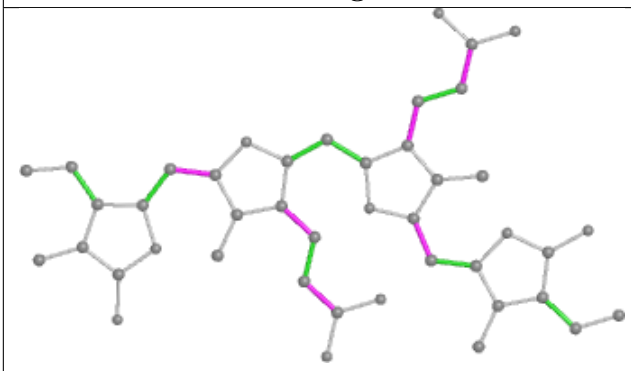

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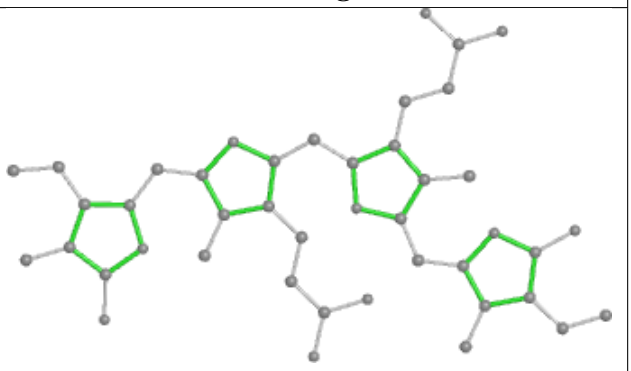
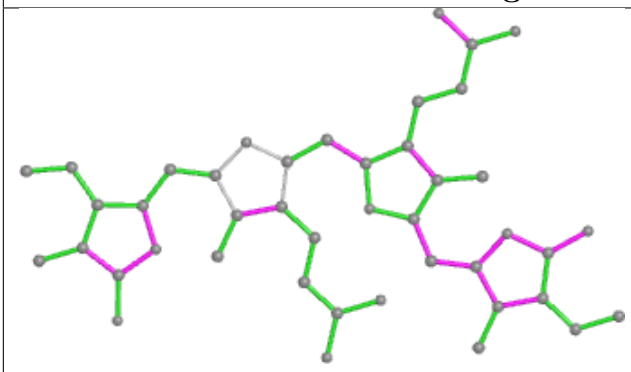


Rings

Ligand CYC H6 1001



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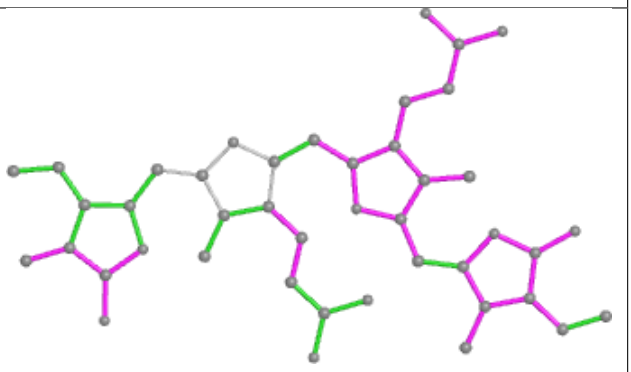

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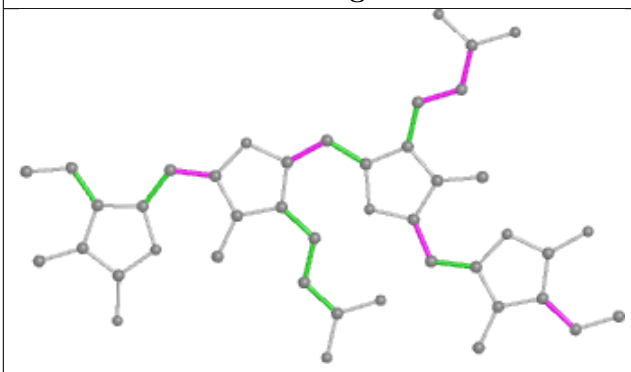

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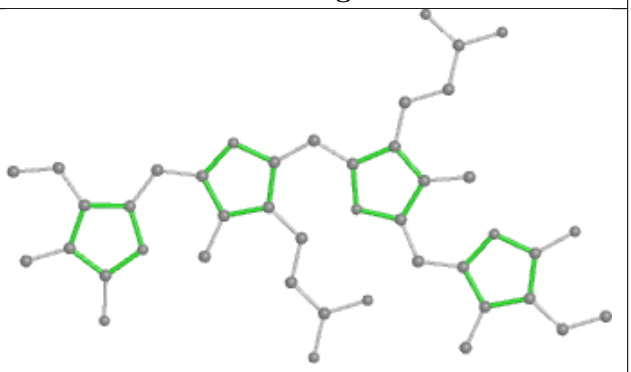
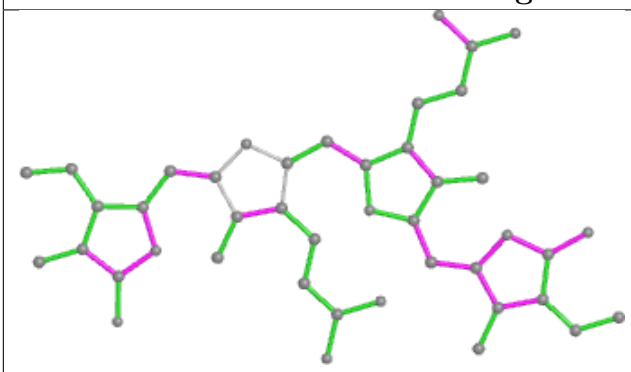


Rings

Ligand CYC L7 201



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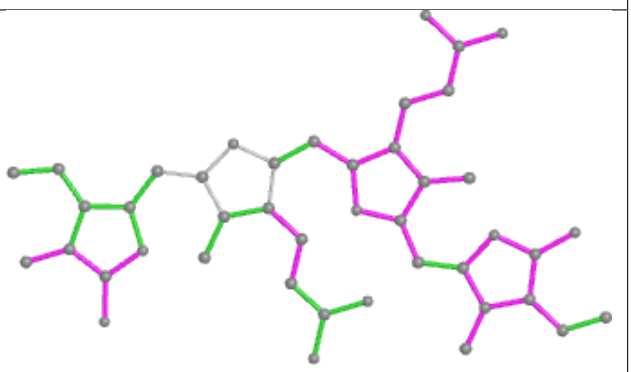
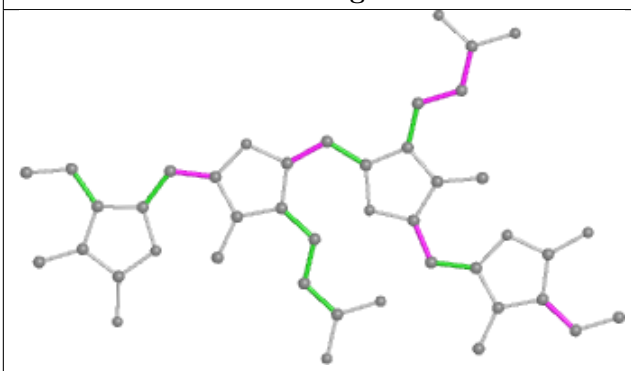


Bond angles



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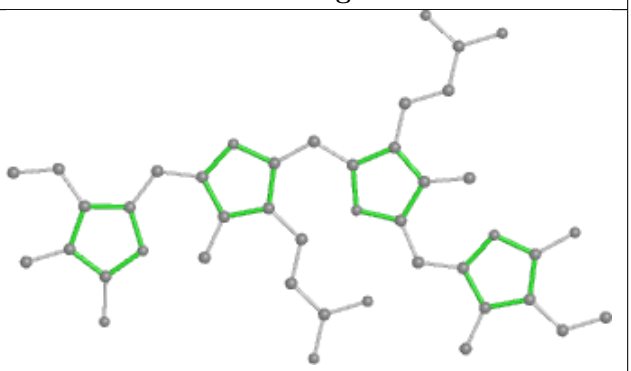
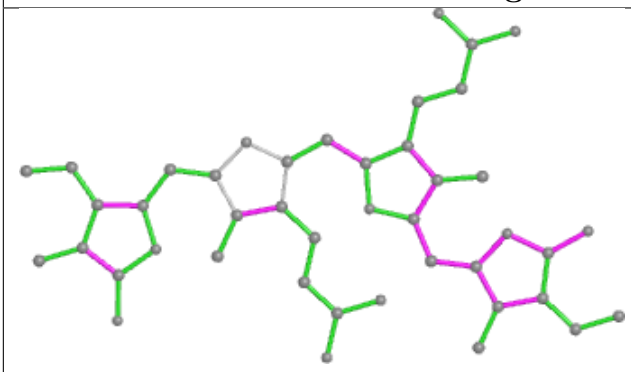


Rings

Ligand CYC P9 1001



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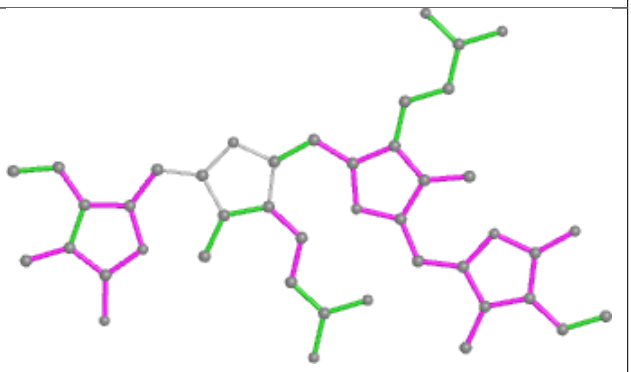

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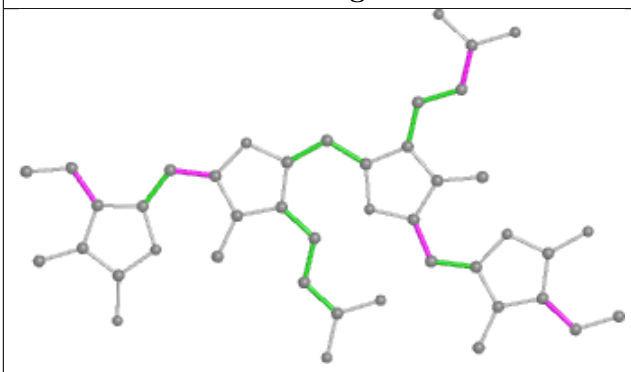

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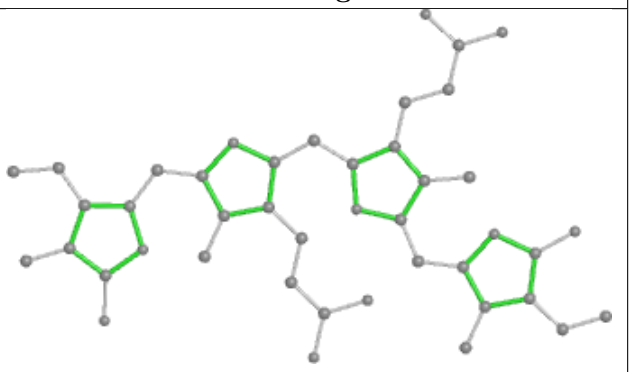
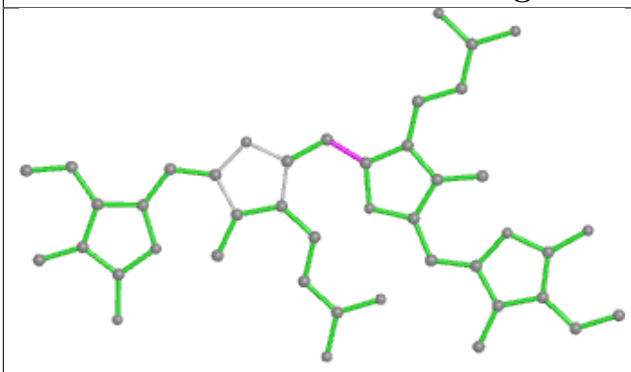


Rings

Ligand CYC P1 201



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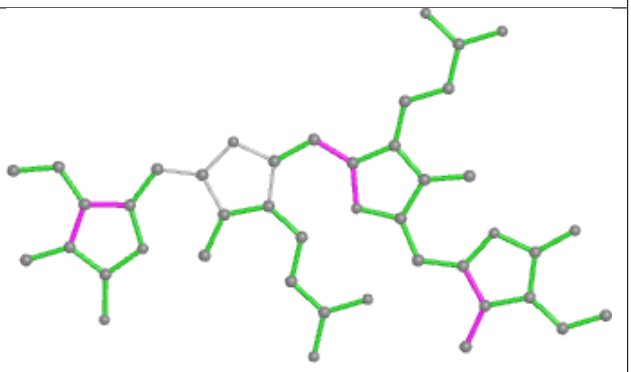
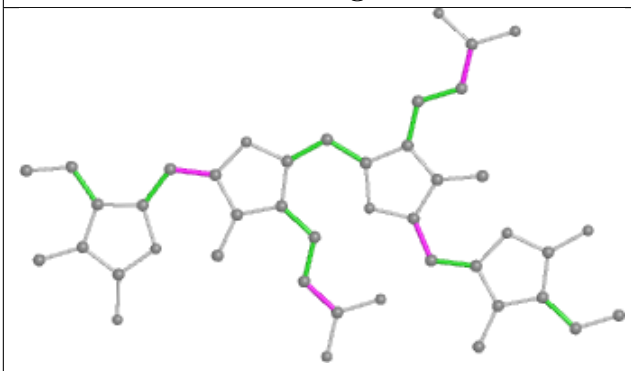


Bond angles



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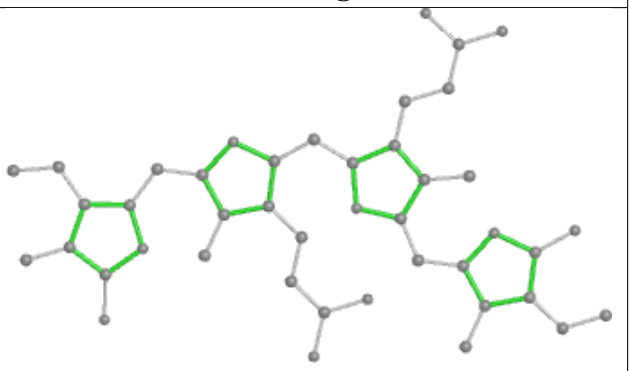
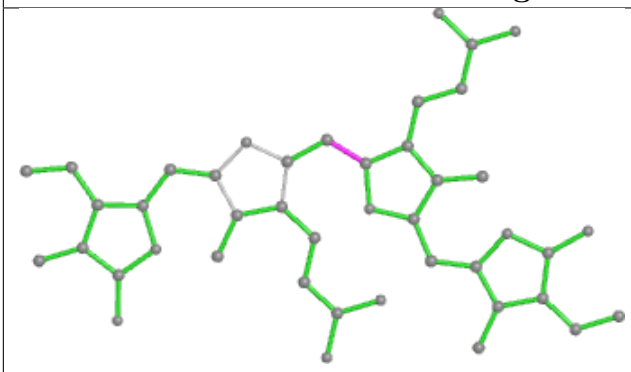


Rings

Ligand CYC C4 302



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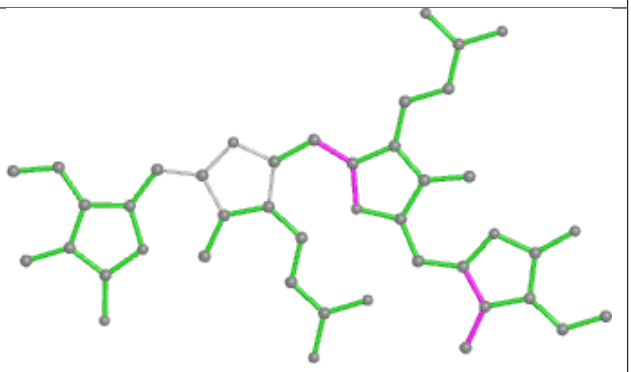

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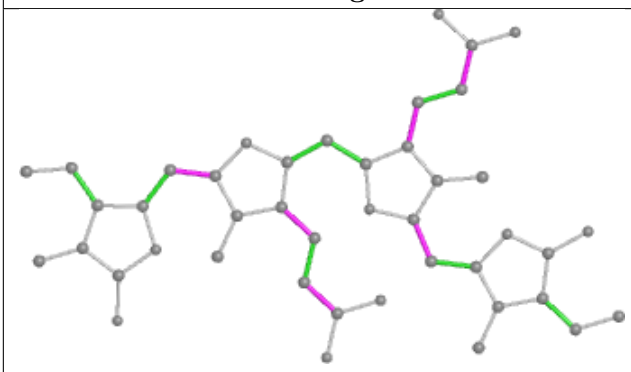

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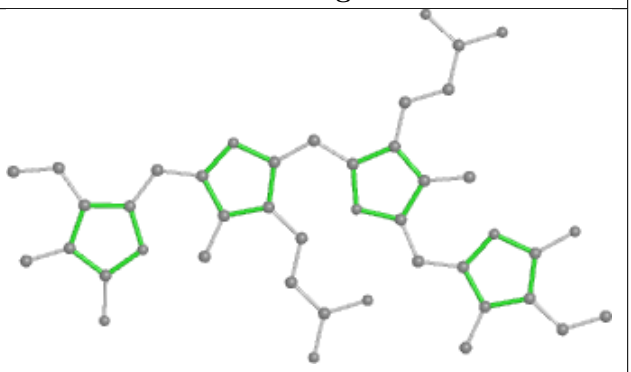
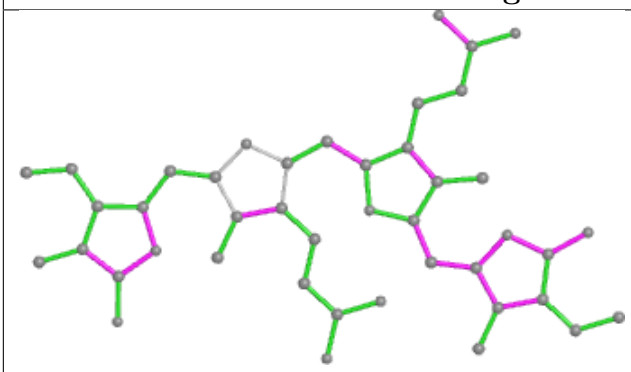


Rings

Ligand CYC H4 1001



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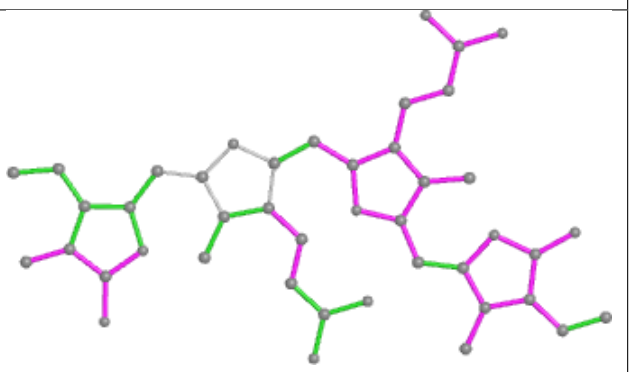
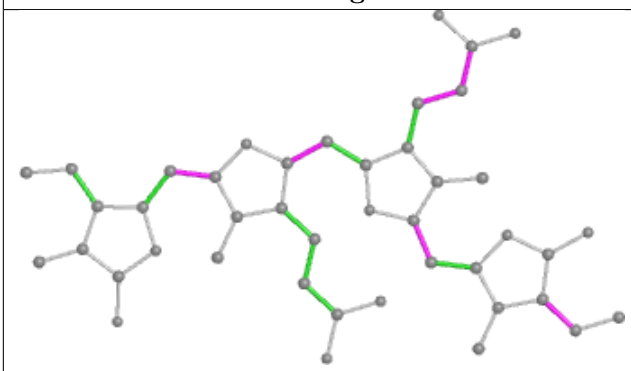


Bond angles



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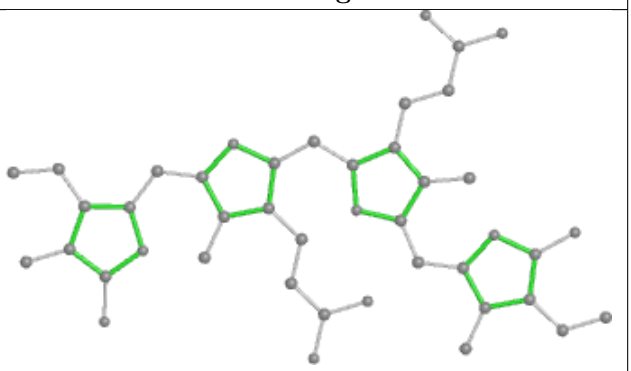
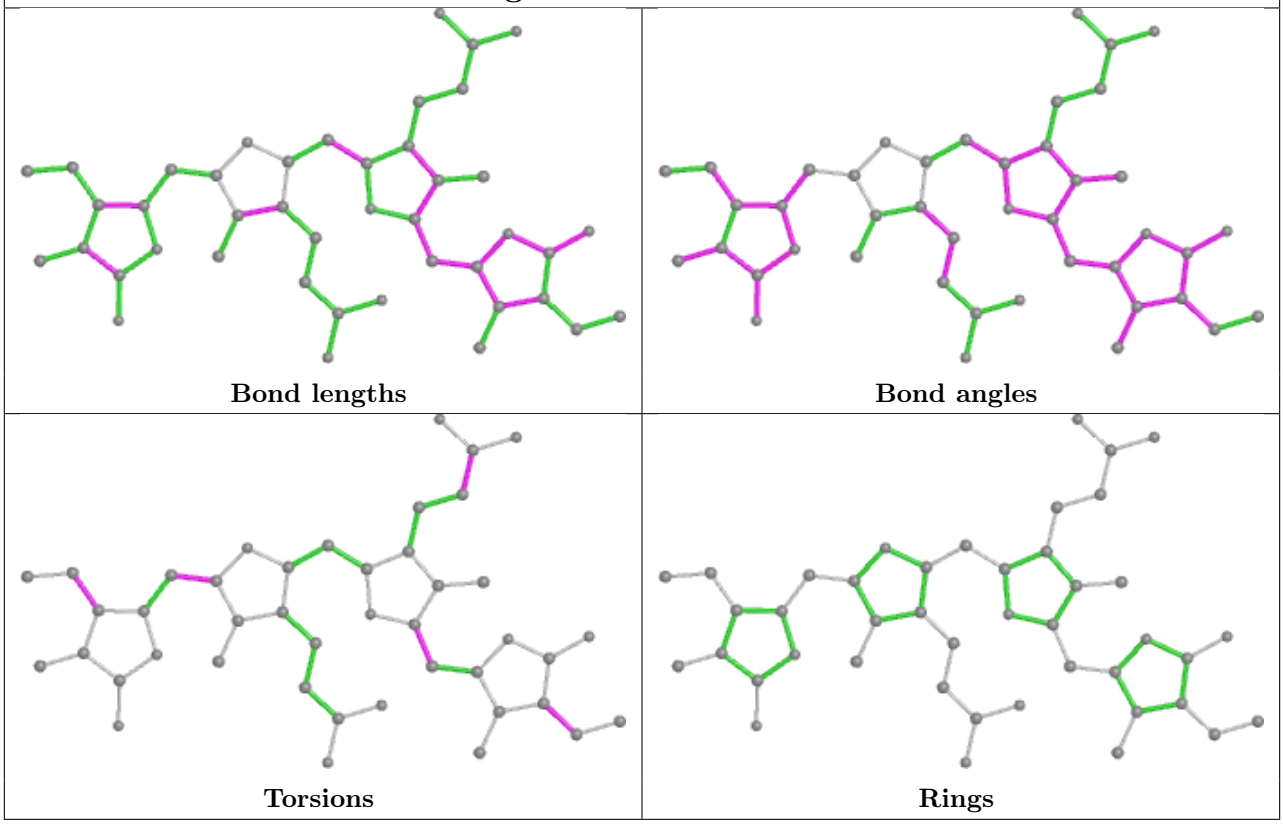
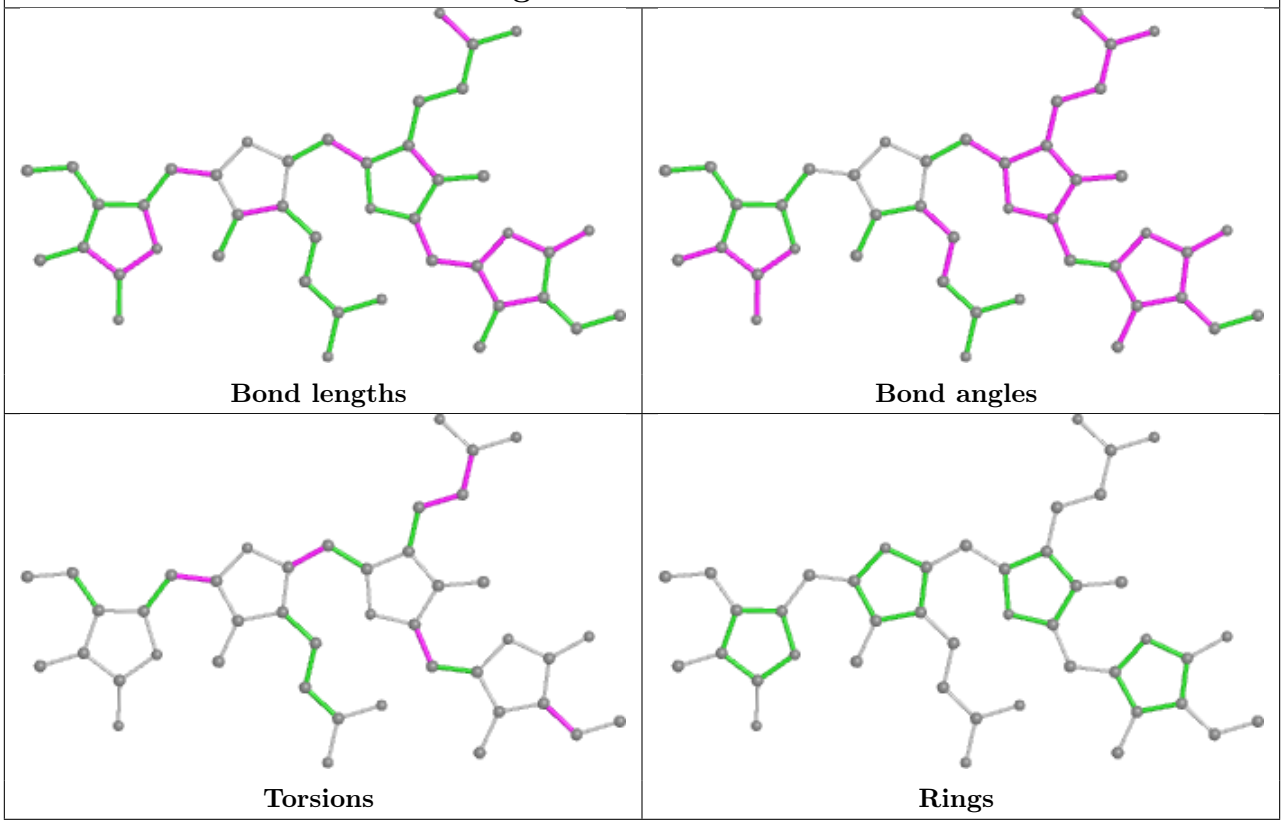


Rings

Ligand CYC C9 1001



Ligand CYC G2 202



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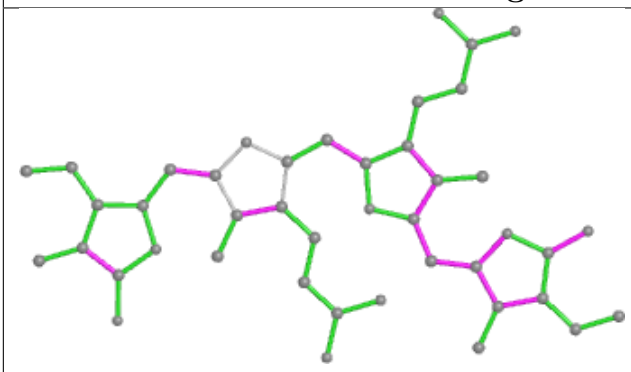

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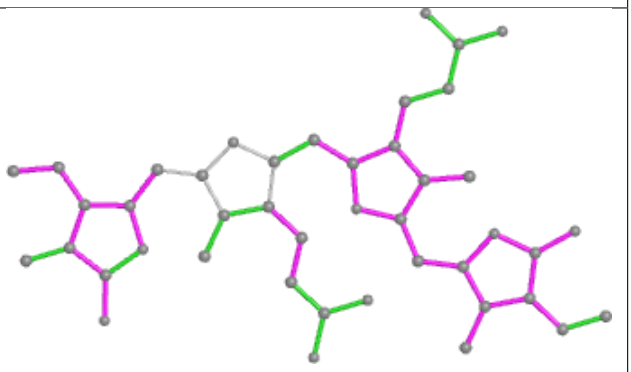

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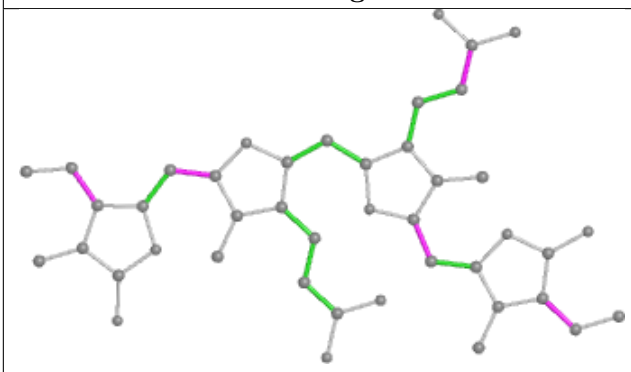
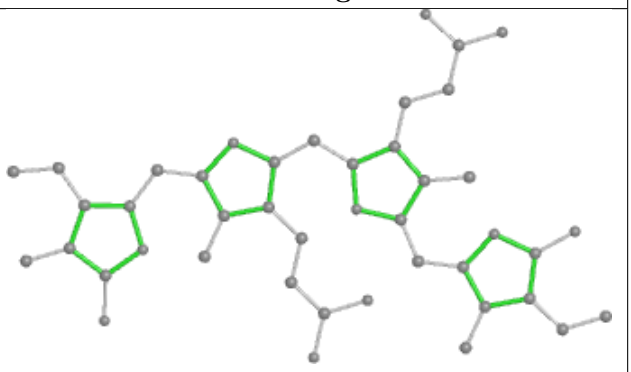
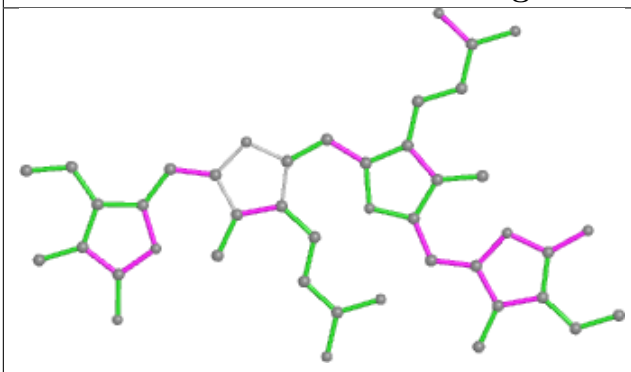


Torsions



Rings

Ligand CYC G3 201



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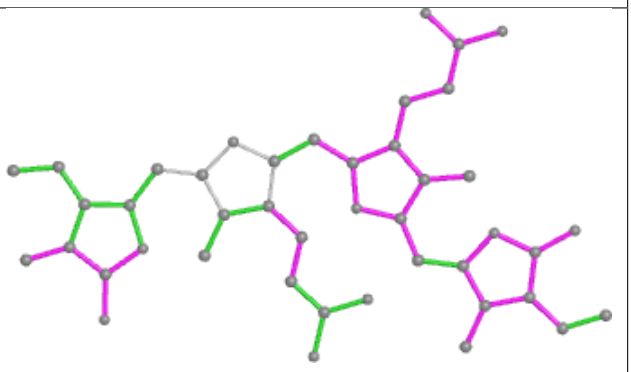
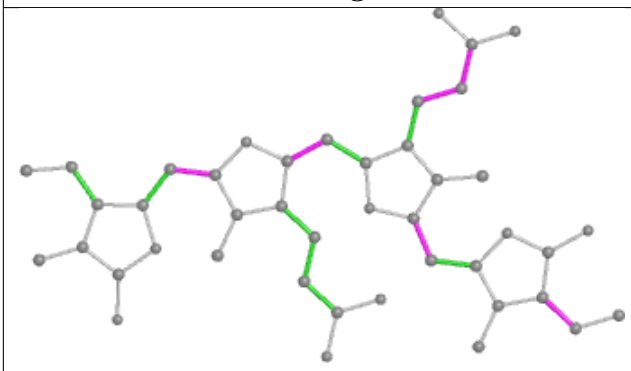
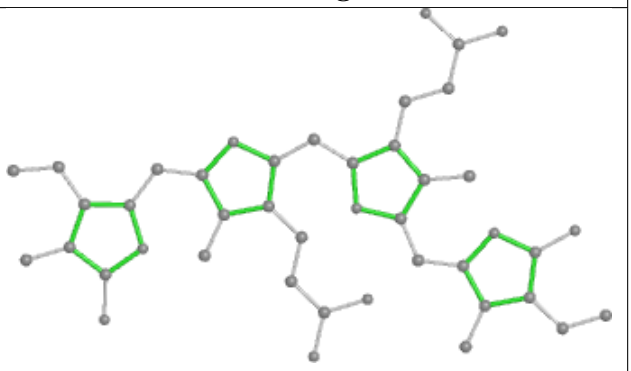


Bond angles

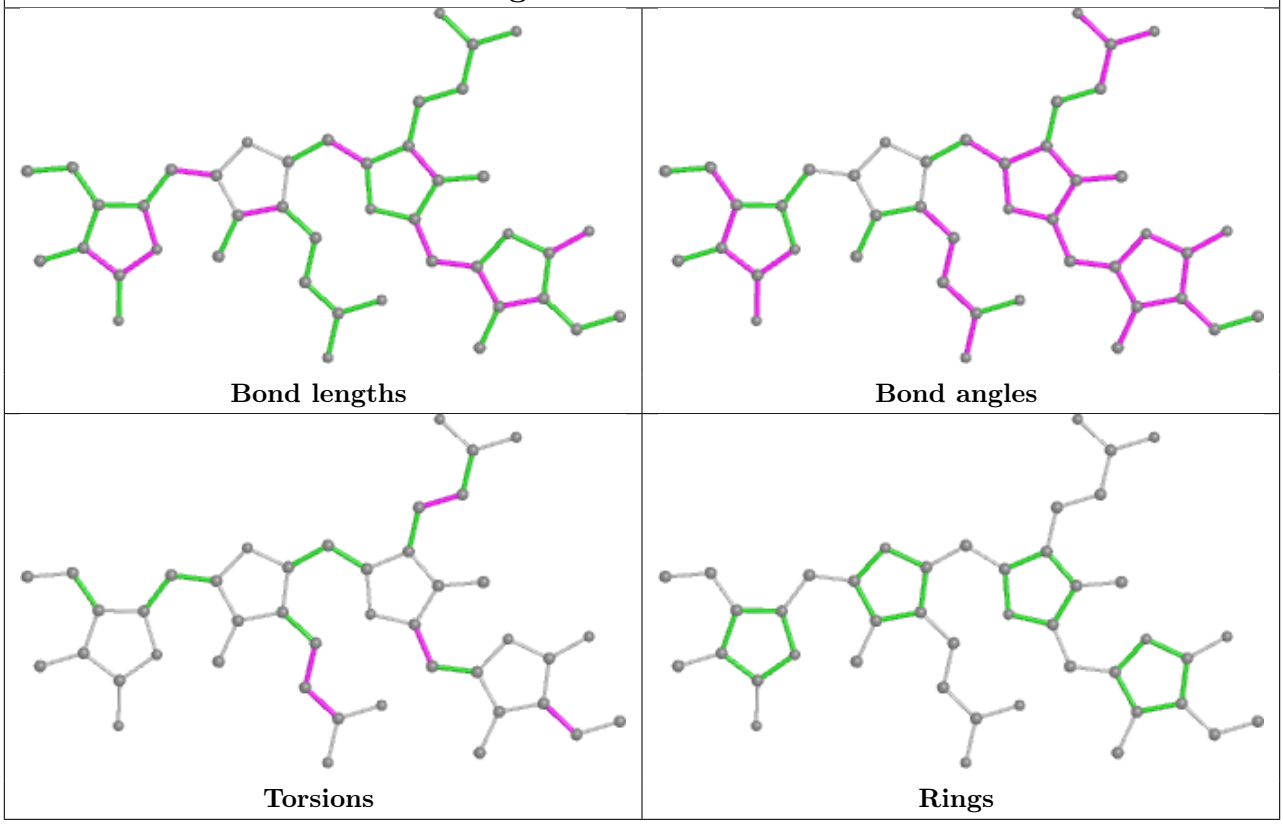


Torsions

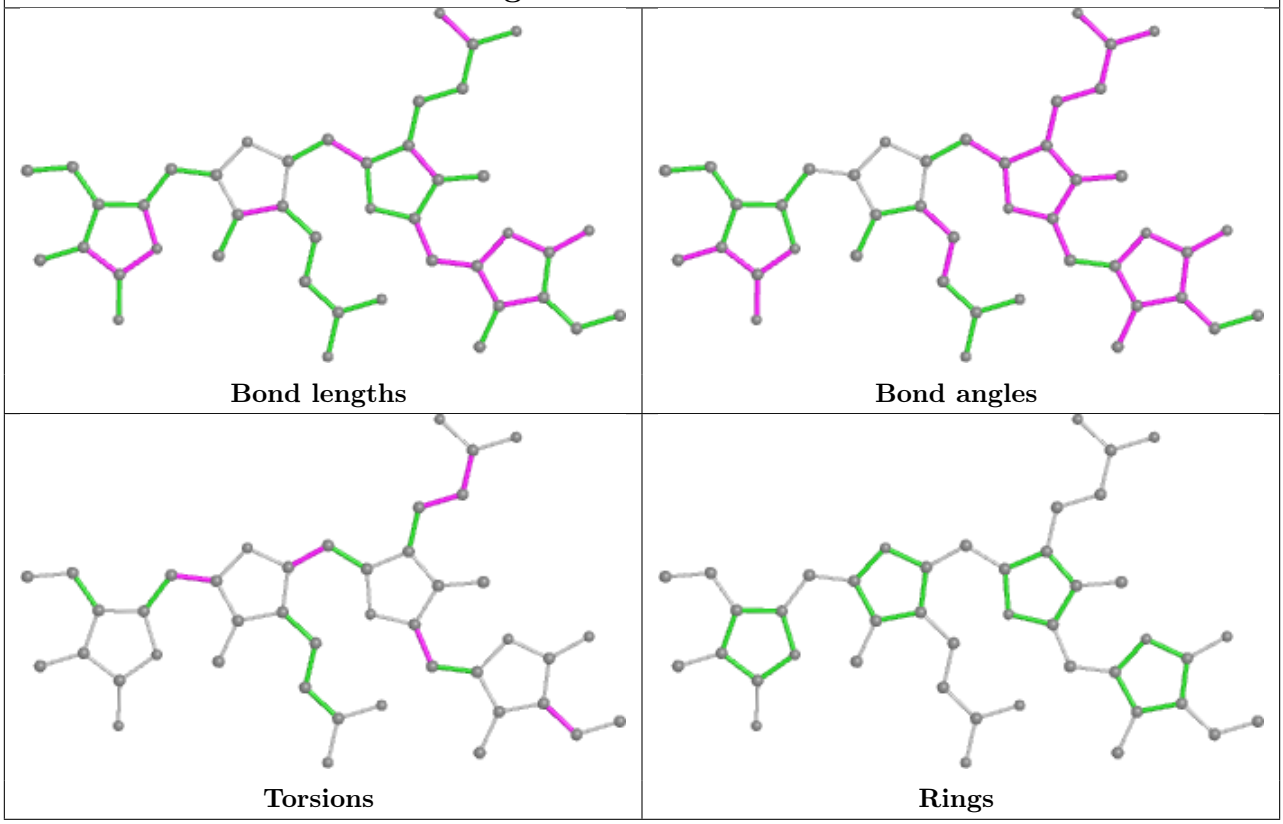


Rings

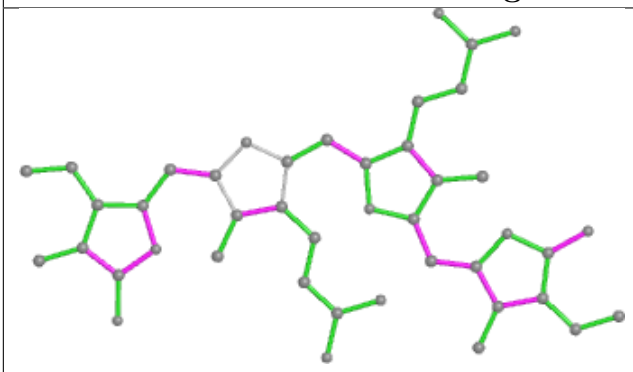
Ligand CYC 39 1001



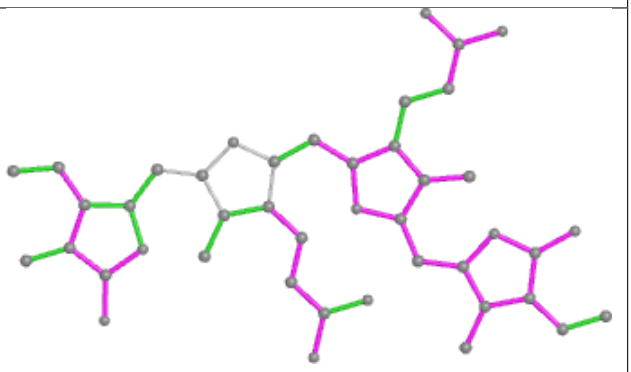
Ligand CYC H7 1001



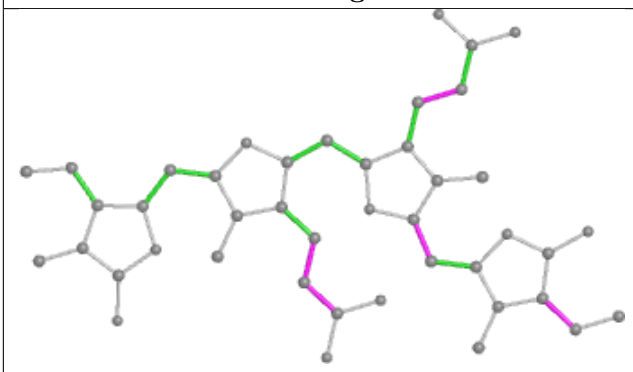
Ligand CYC O9 1001



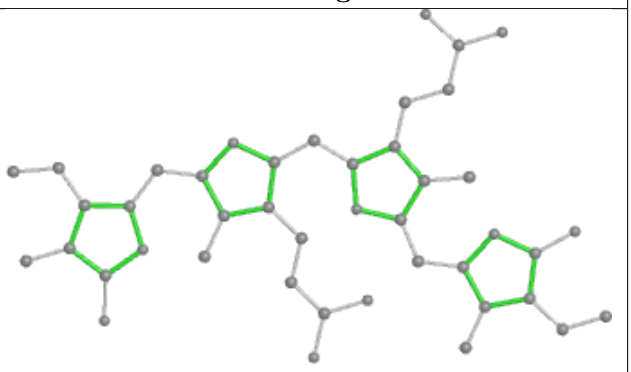
Bond lengths



Bond angles

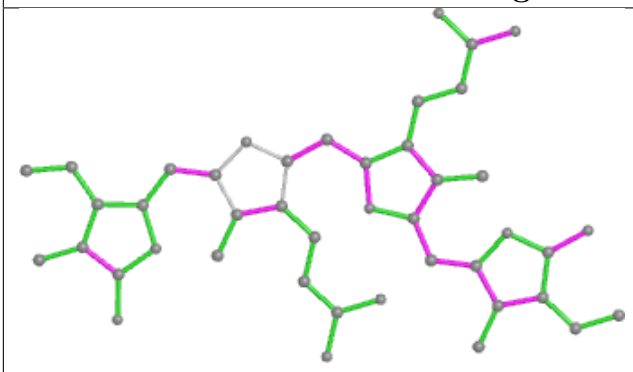


Torsions

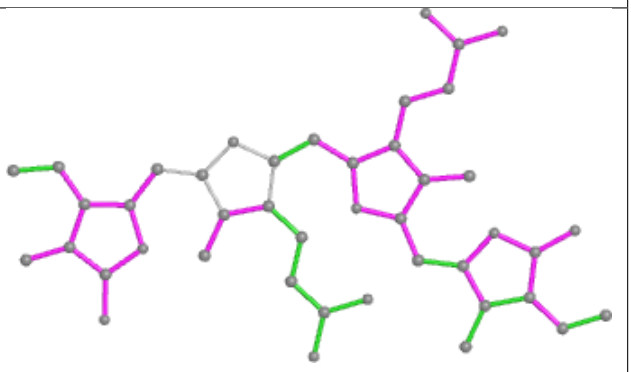


Rings

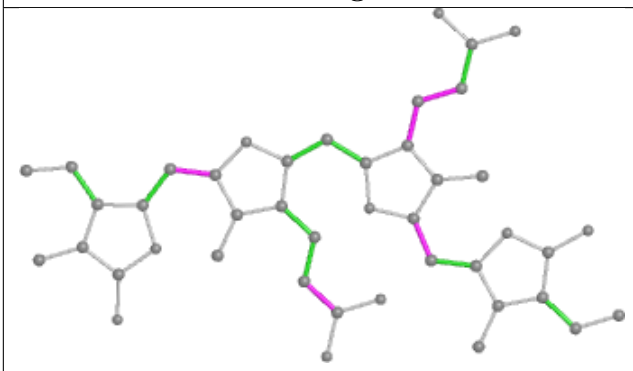
Ligand CYC X2 201



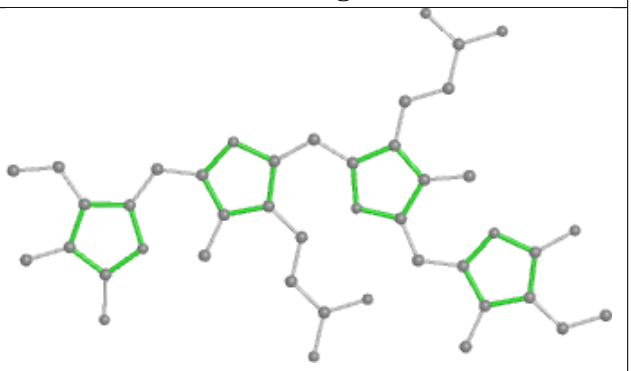
Bond lengths



Bond angles

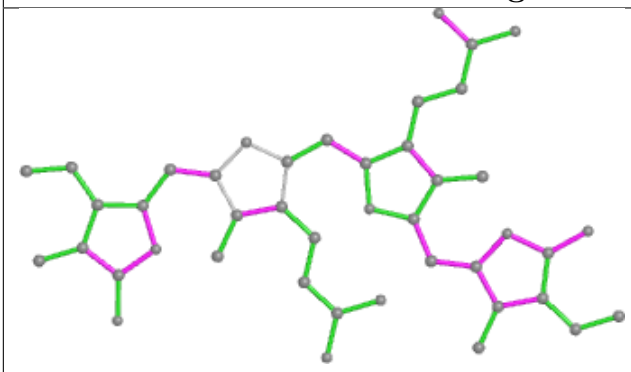


Torsions

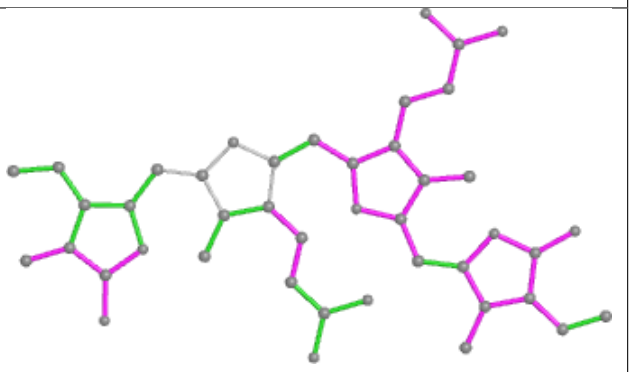


Rings

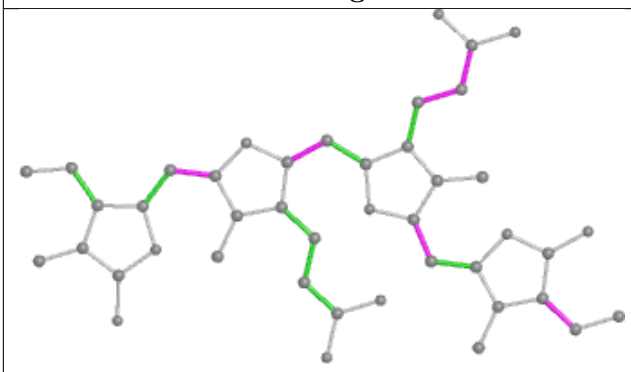
Ligand CYC W6 202



Bond lengths



Bond angles



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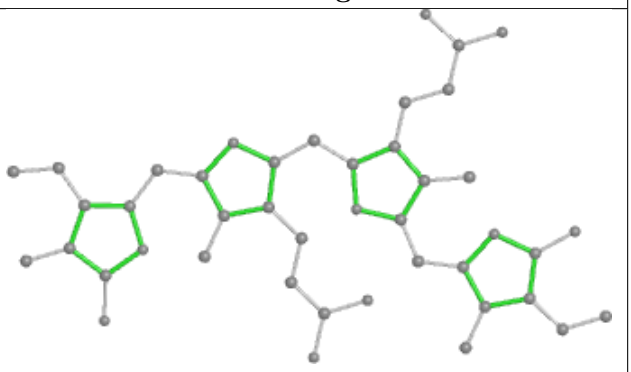
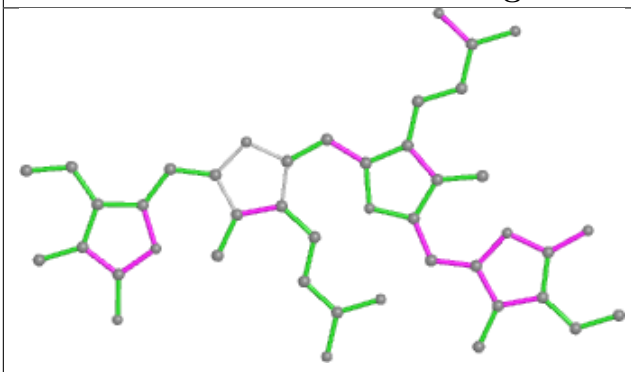


Rings

Ligand CYC O1 1001



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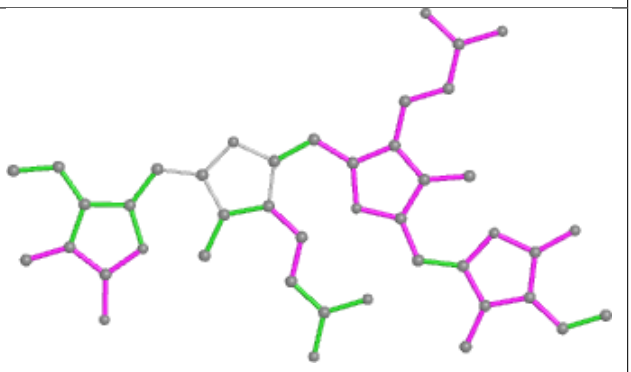

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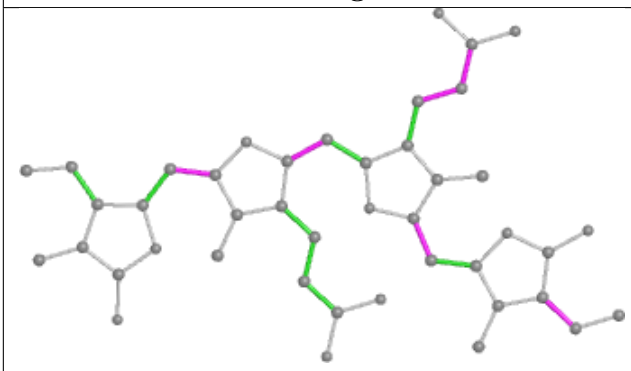

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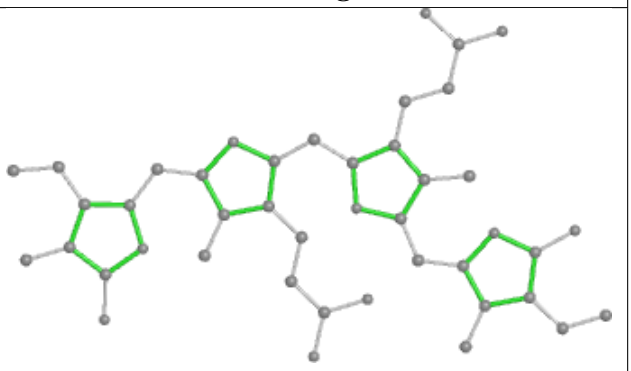
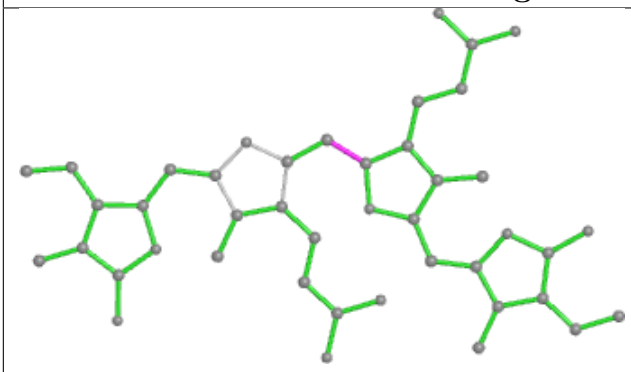


Rings

Ligand CYC P5 202



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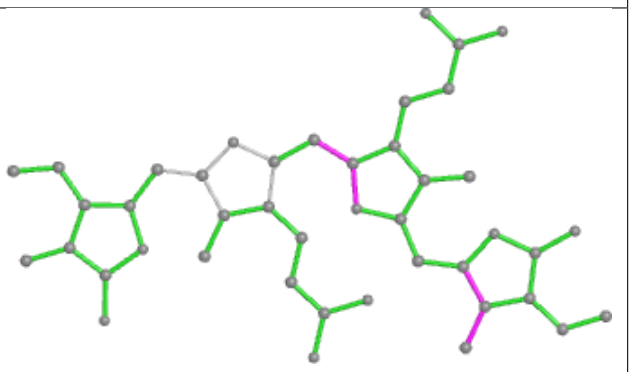
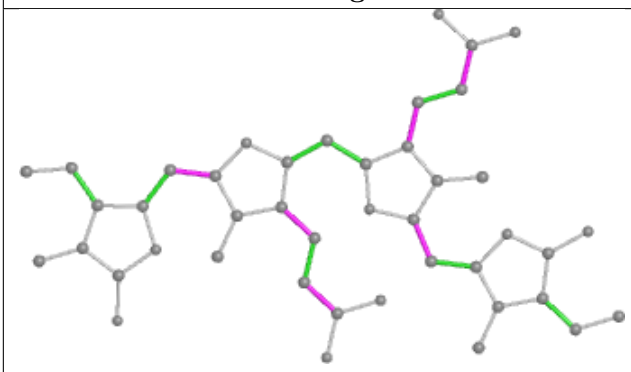


Bond angles



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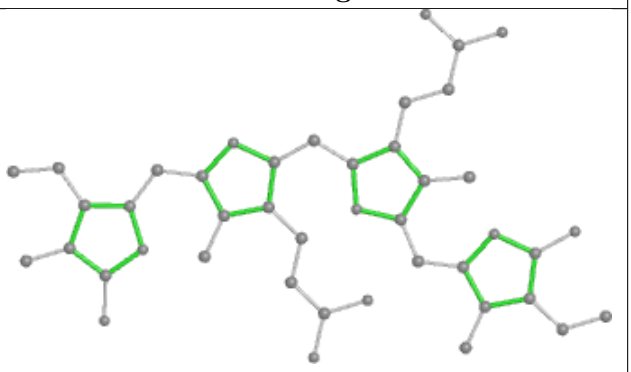
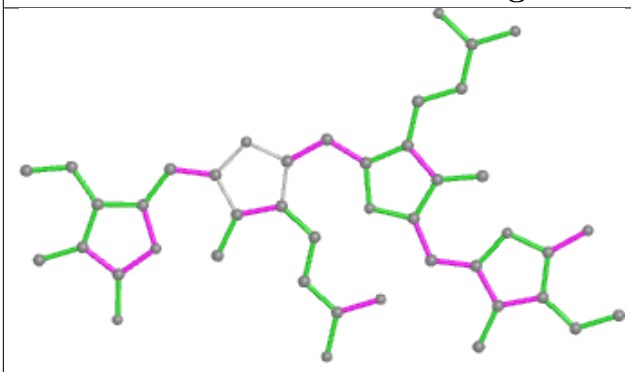


Rings

Ligand CYC o8 1001



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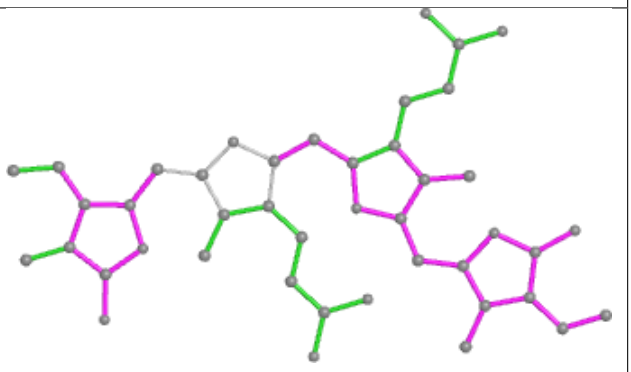

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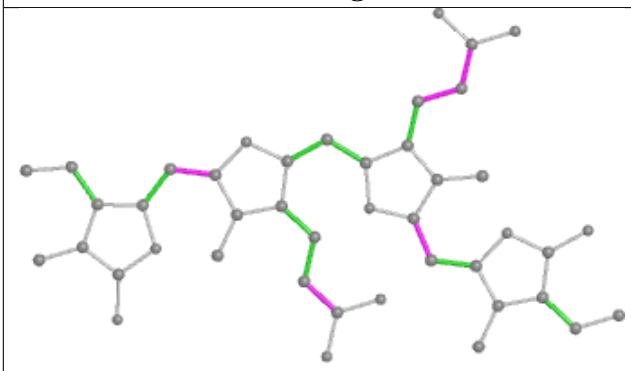

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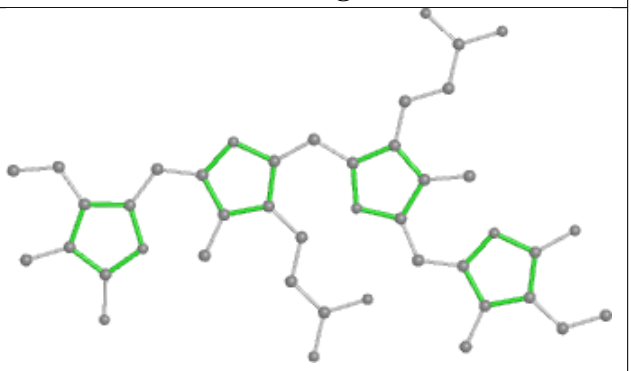
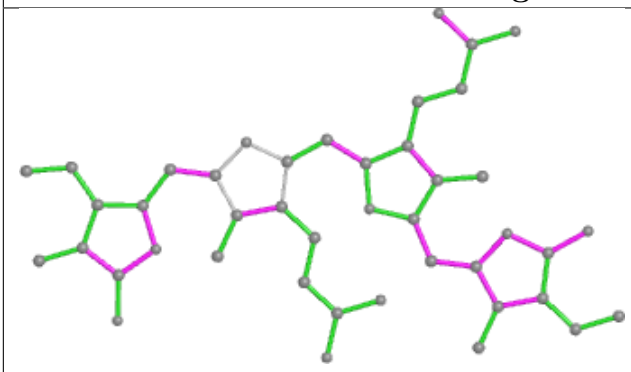


Rings

Ligand CYC N2 302



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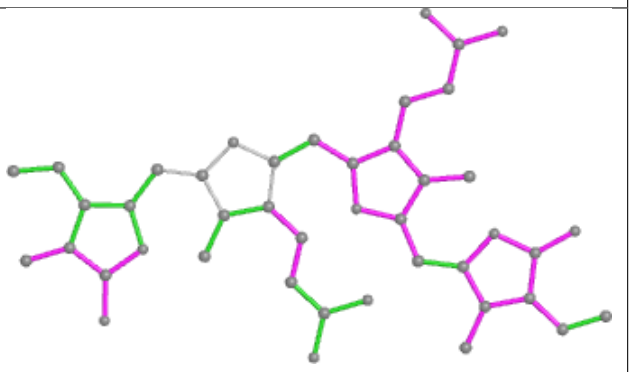
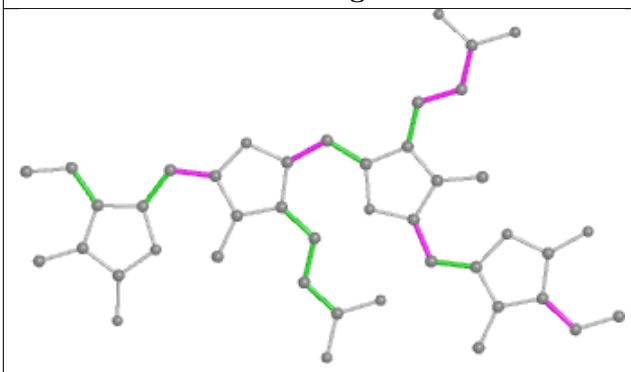


Bond angles



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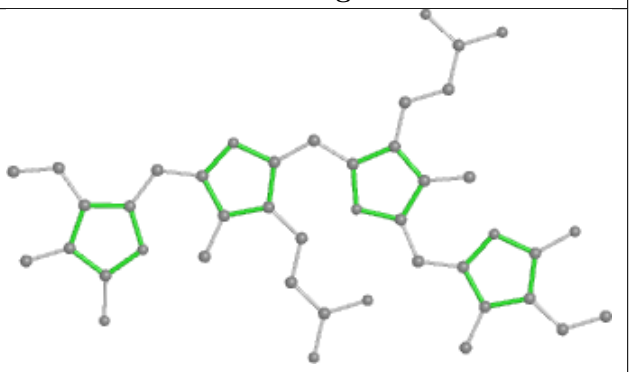
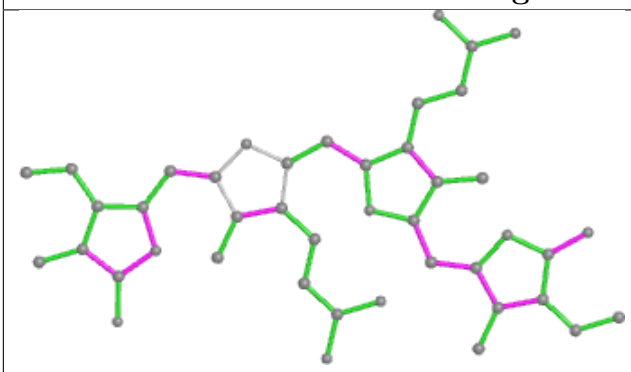


Rings

Ligand CYC l9 1001



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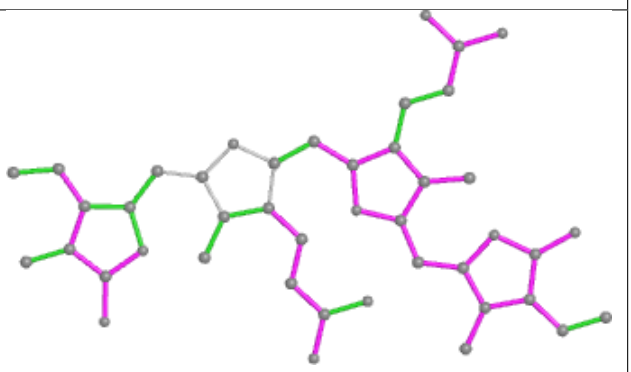
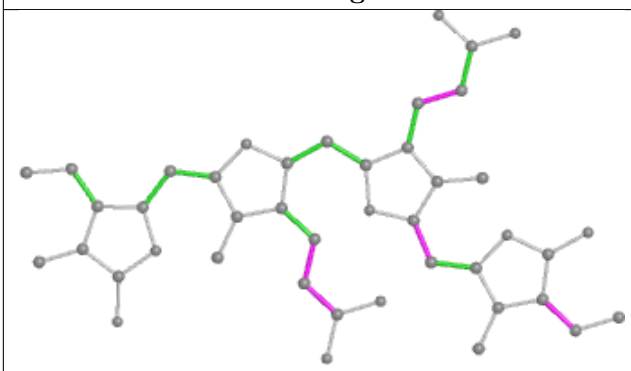


Bond angles



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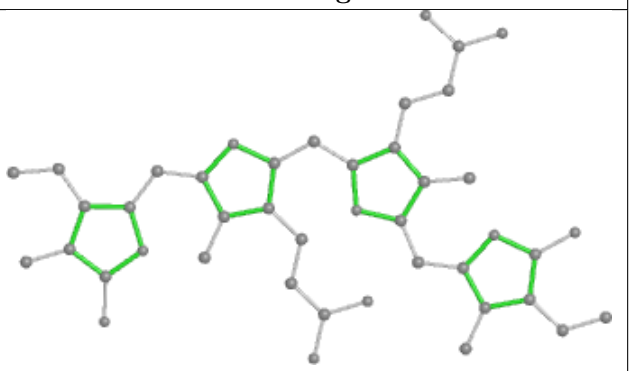
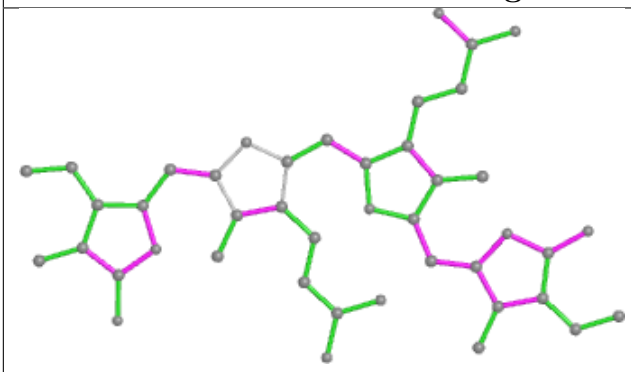


Rings

Ligand CYC B4 1001



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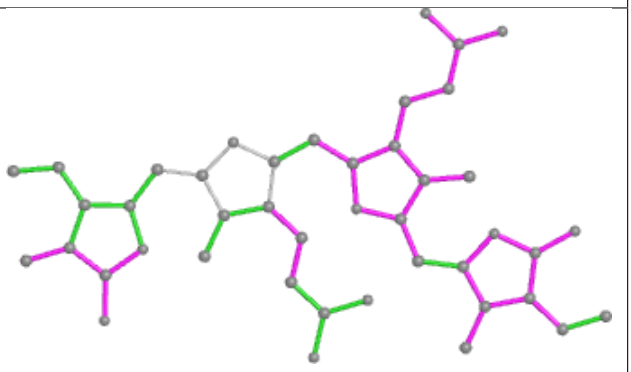
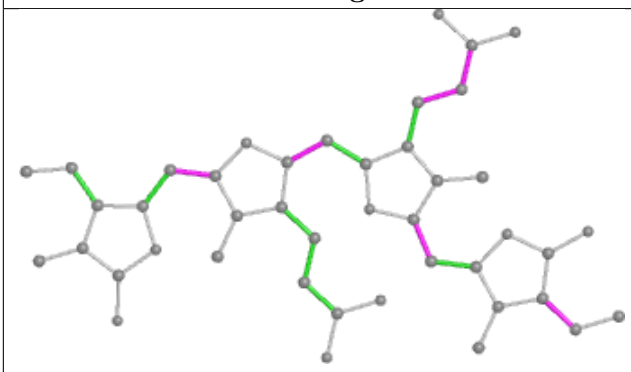


Bond angles



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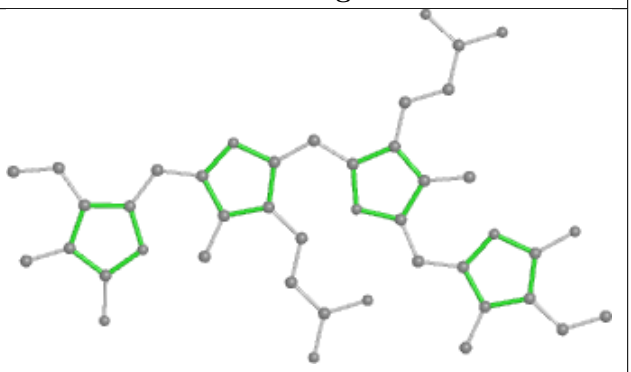
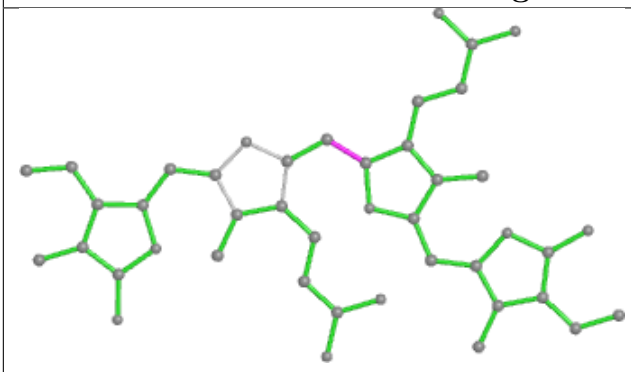


Rings

Ligand CYC K1 201



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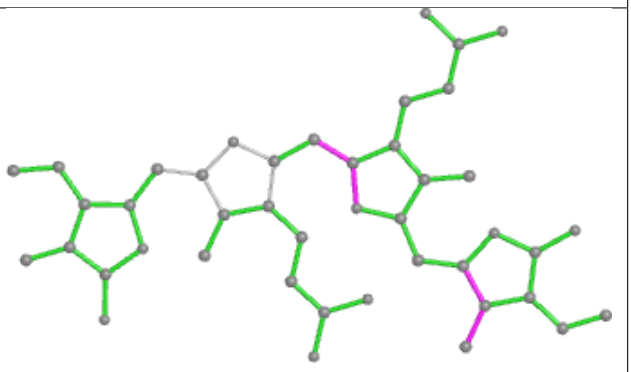
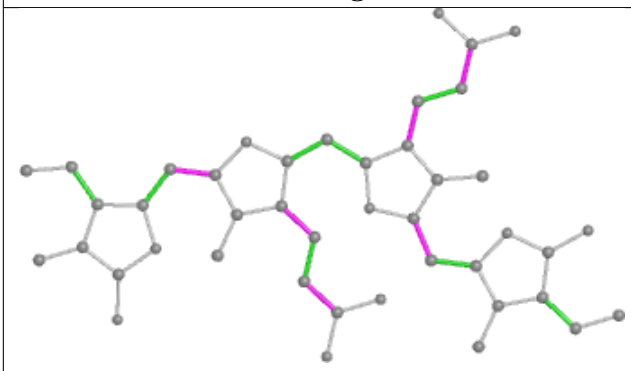


Bond angles



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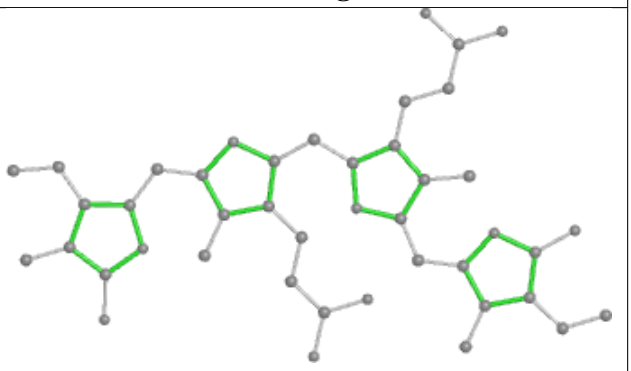
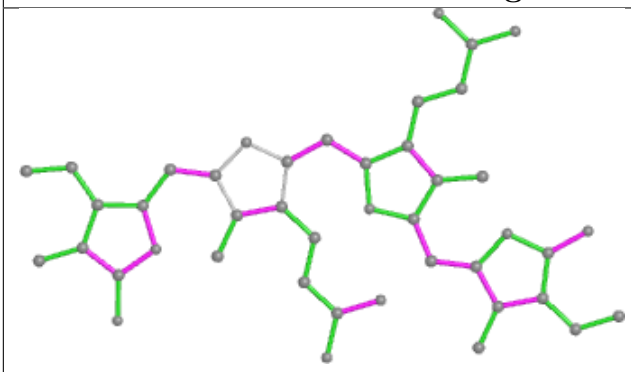


Rings

Ligand CYC T8 1001



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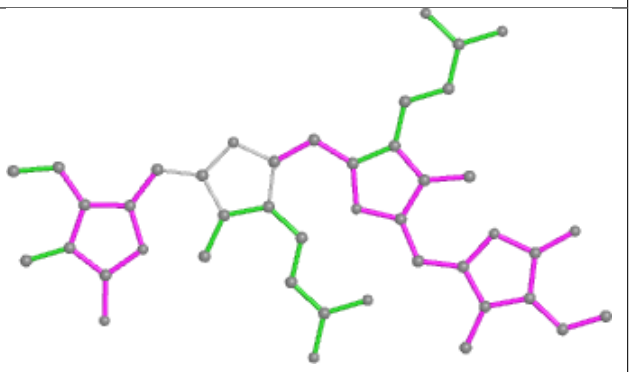

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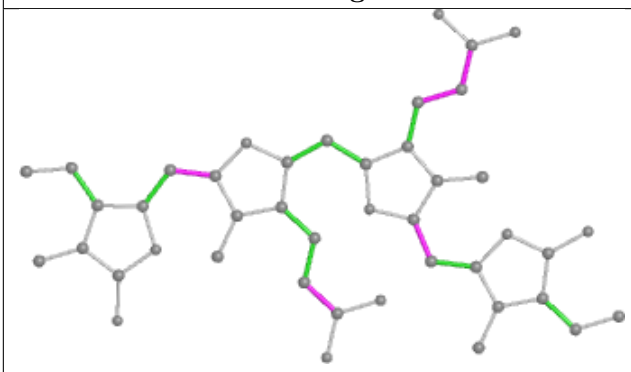

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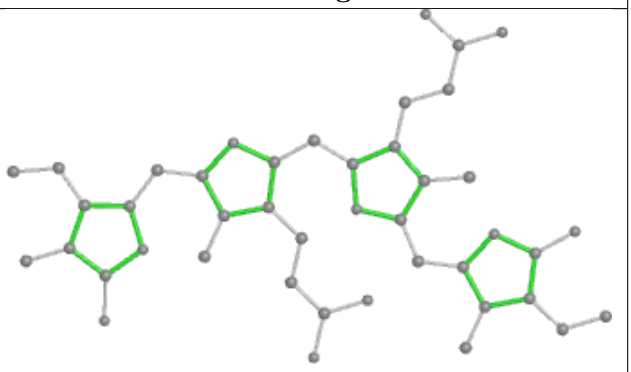
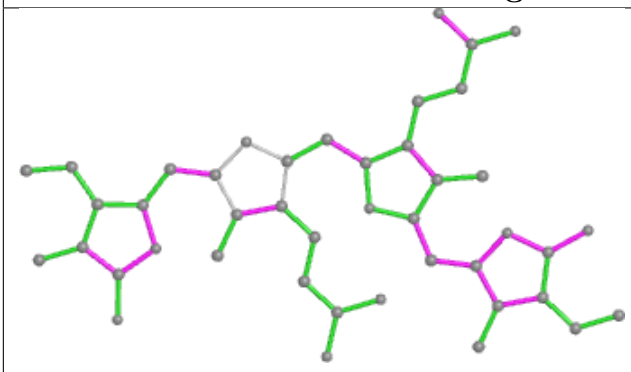


Rings

Ligand CYC F4 1001



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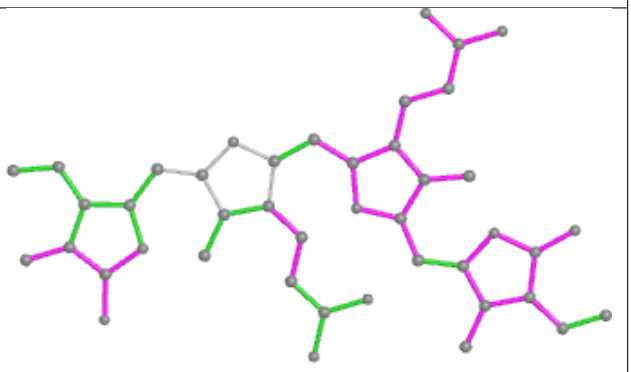
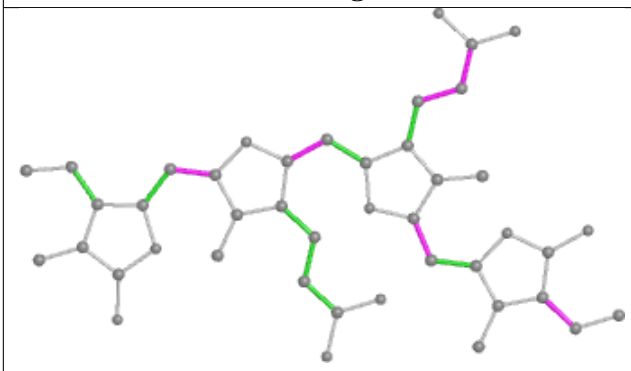


Bond angles



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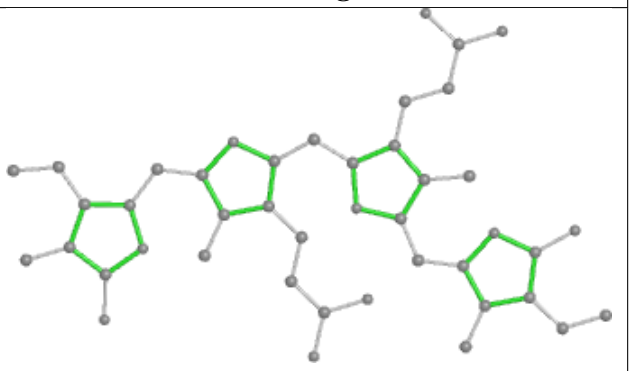
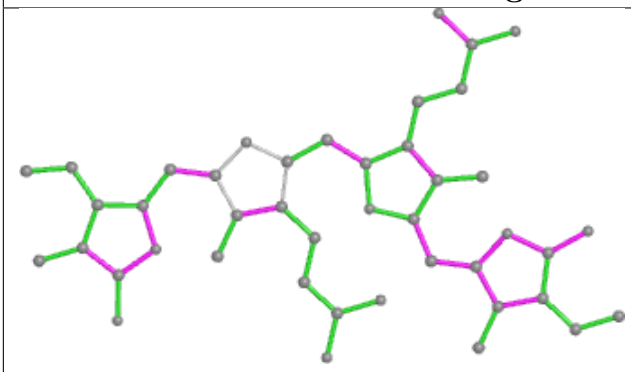


Rings

Ligand CYC F1 1001



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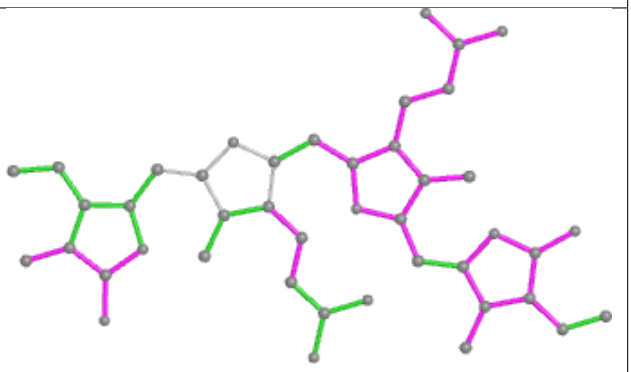
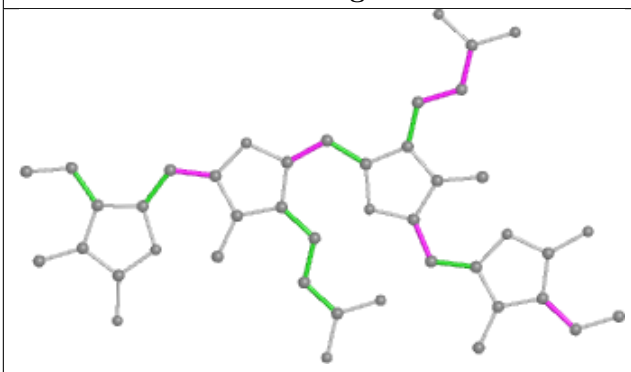


Bond angles



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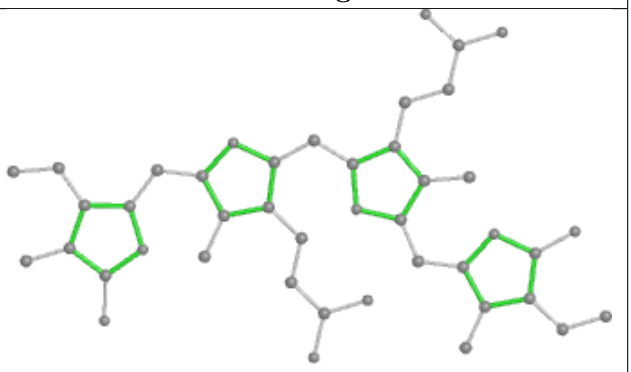
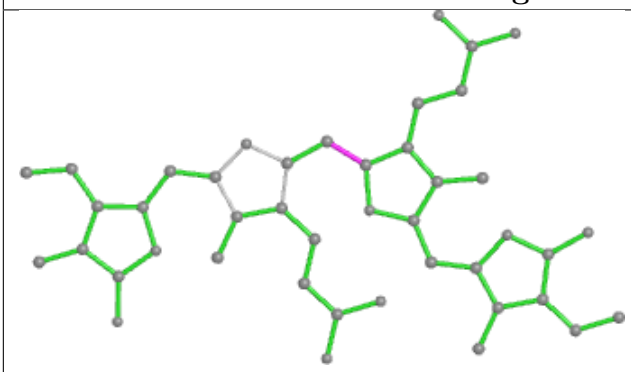


Rings

Ligand CYC N7 301



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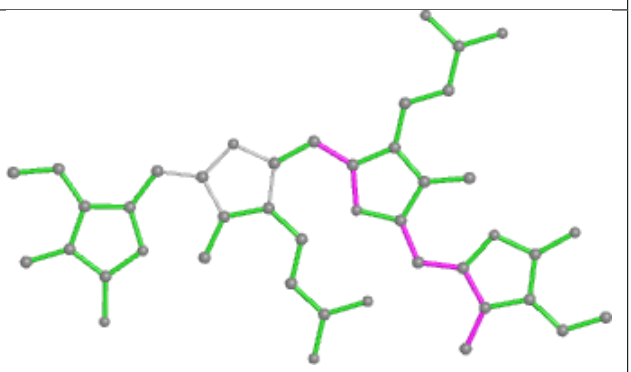
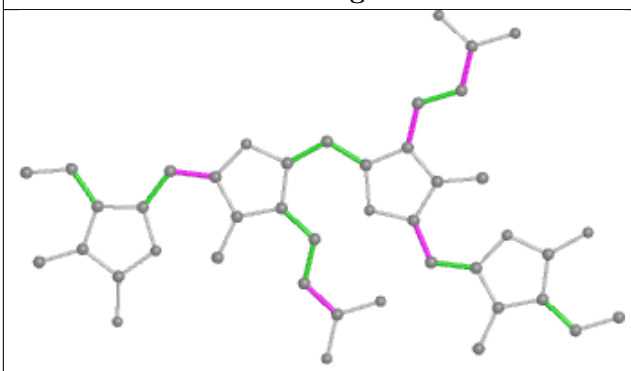


Bond angles



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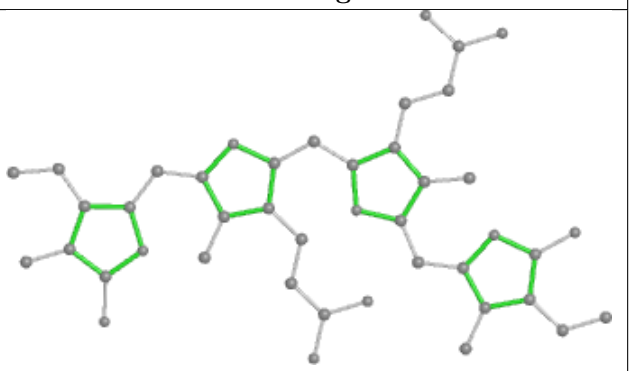
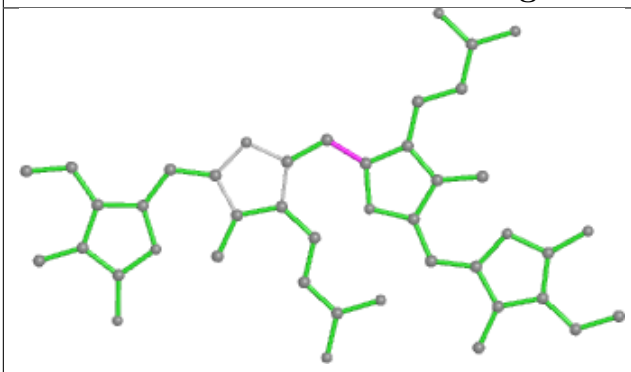


Rings

Ligand CYC I4 202



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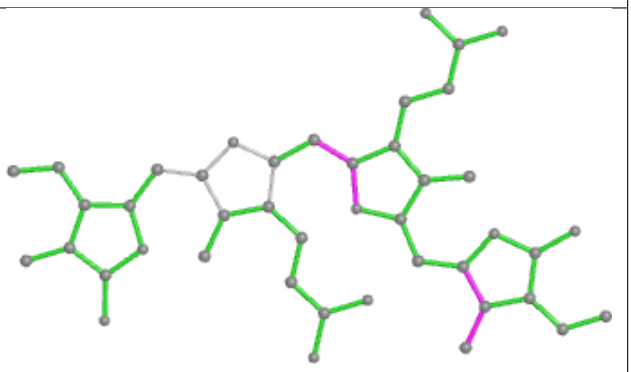
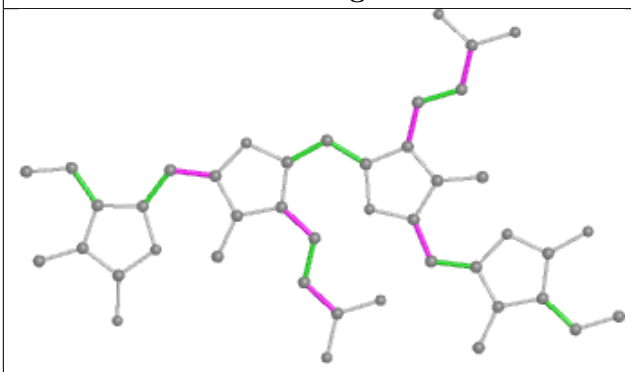
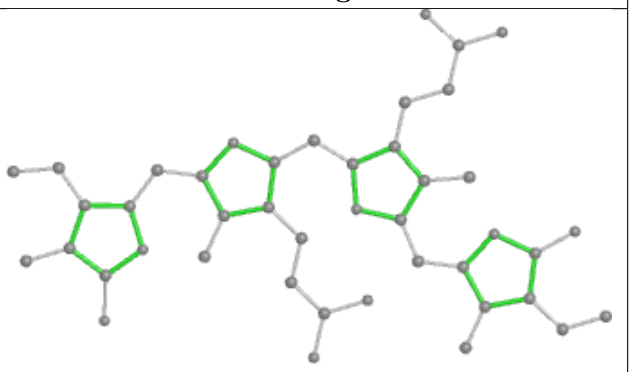


Bond angles

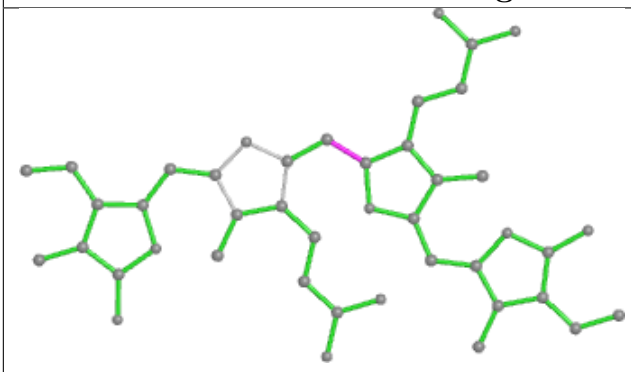


Torsions



Rings

Ligand CYC MA 1003



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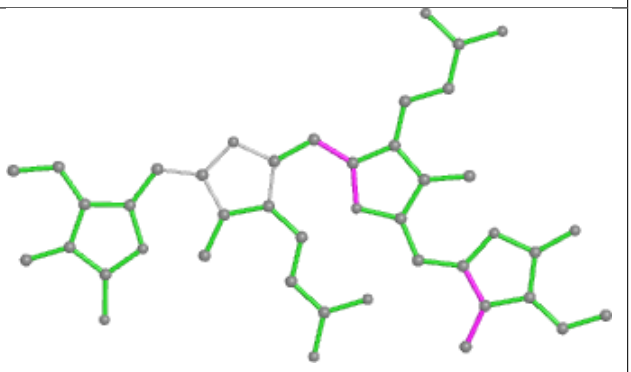
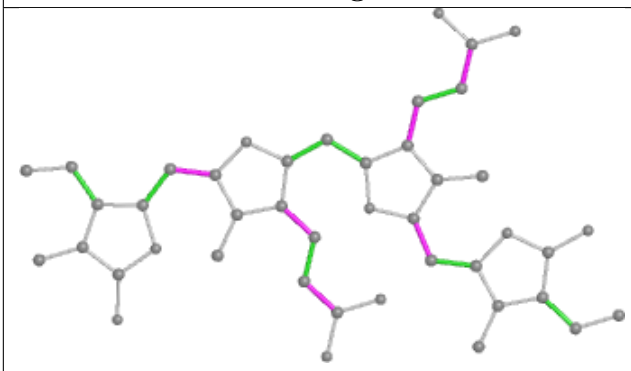
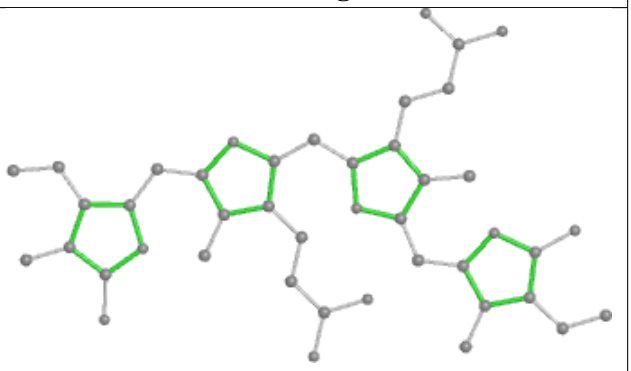


Bond angles

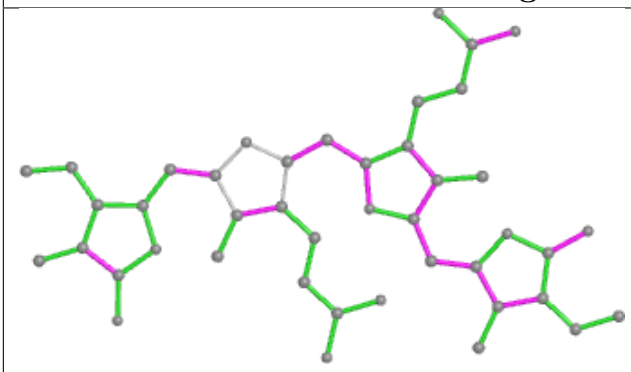


Torsions

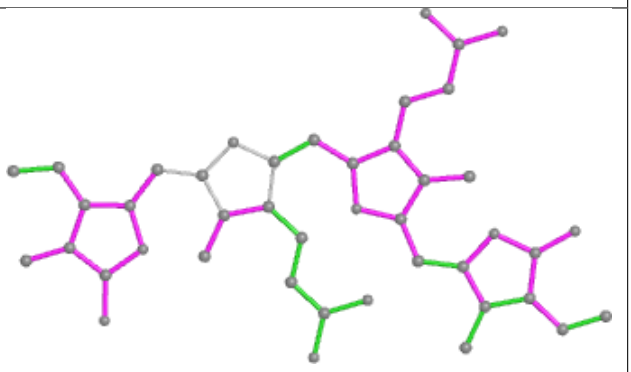


Rings

Ligand CYC I2 201



Bond lengths



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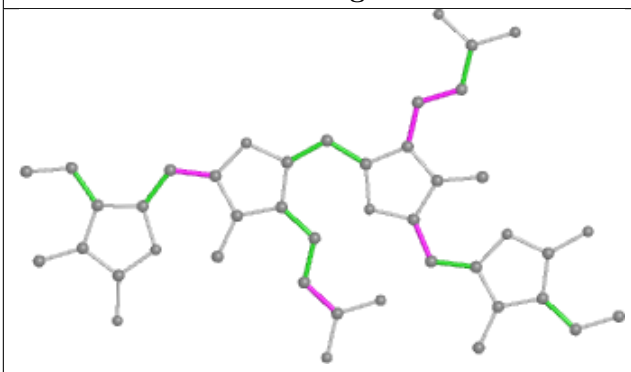

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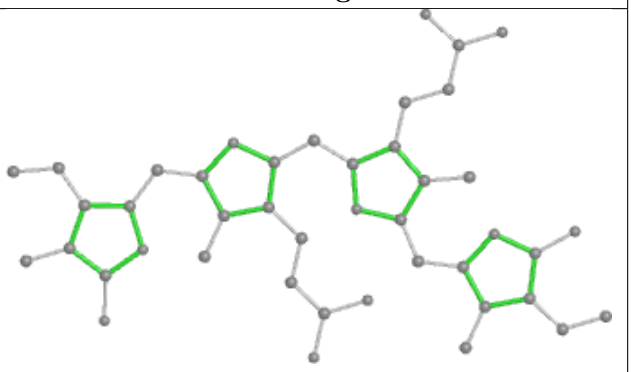
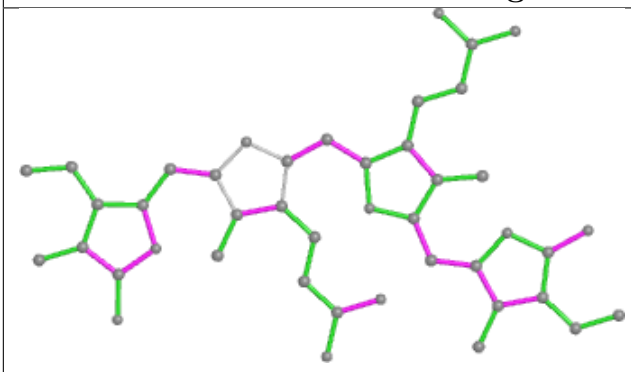


Rings

Ligand CYC b8 1001



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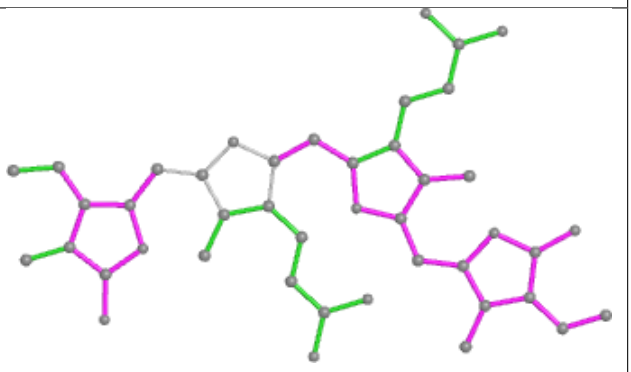

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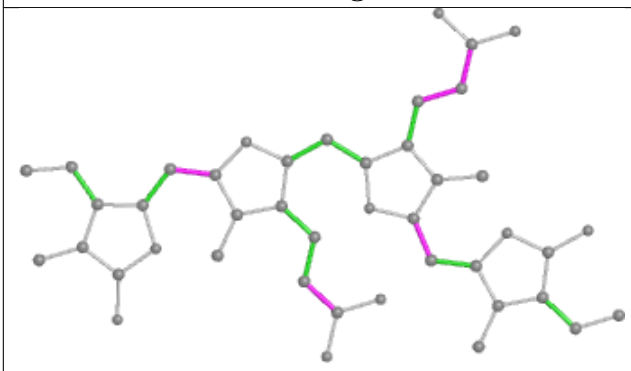

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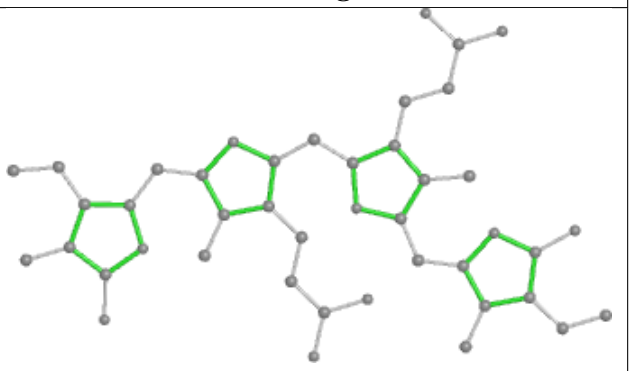
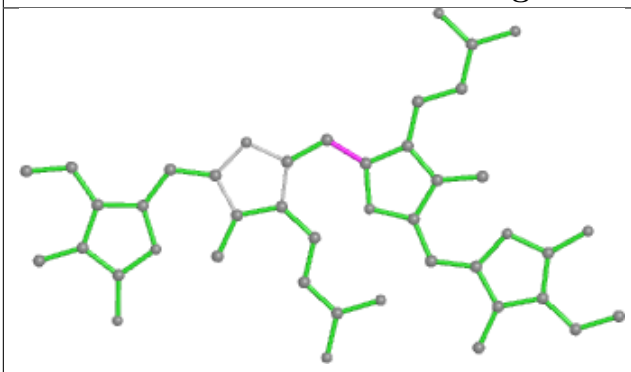


Rings

Ligand CYC G7 202



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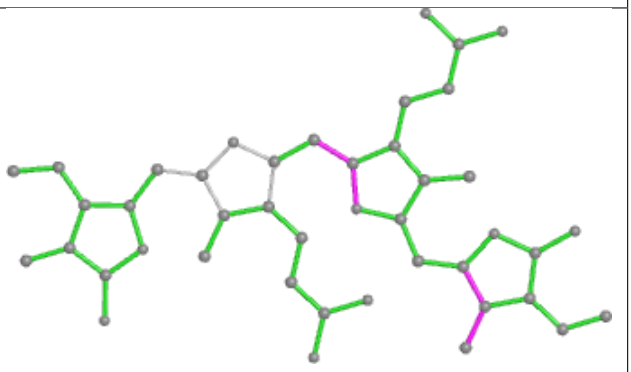
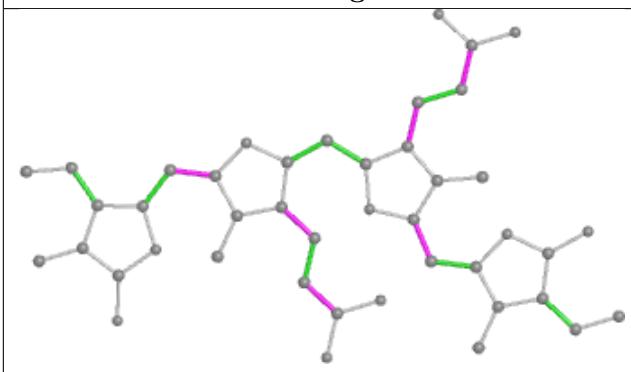


Bond angles



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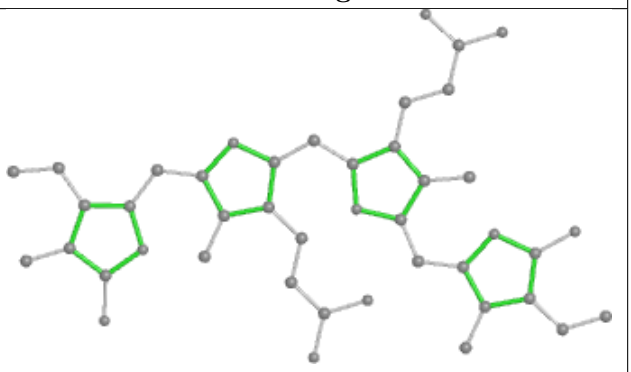
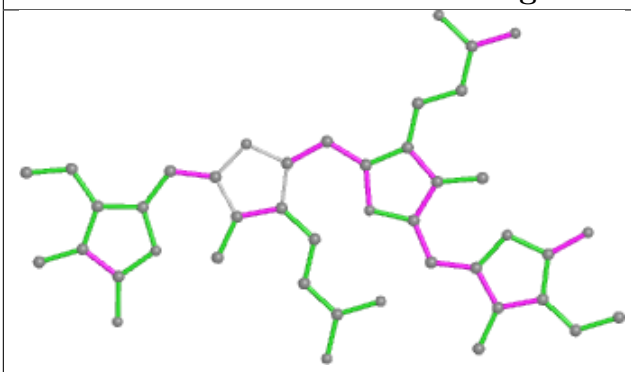


Rings

Ligand CYC I5 201



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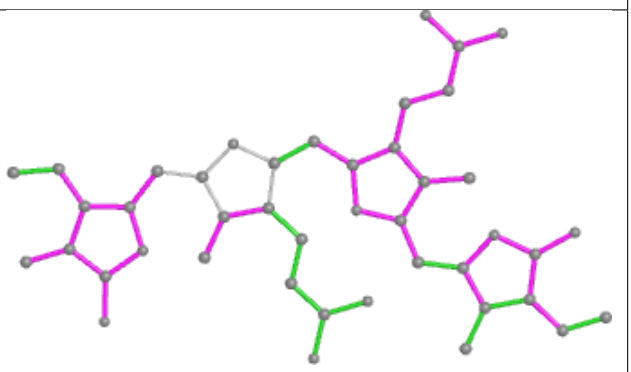
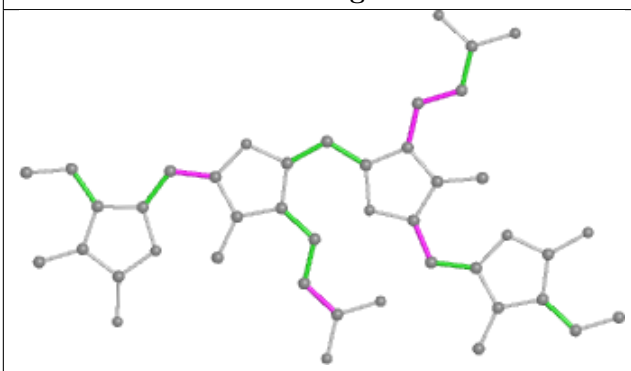


Bond angles



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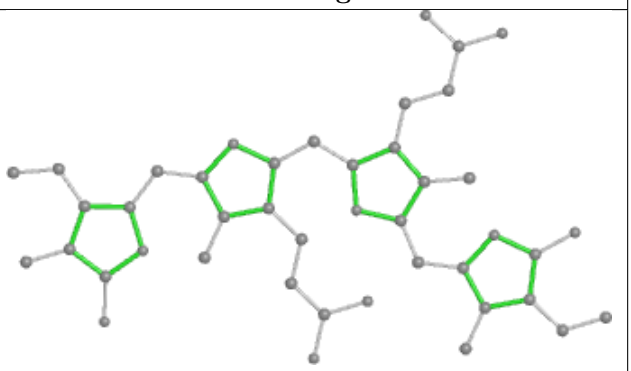
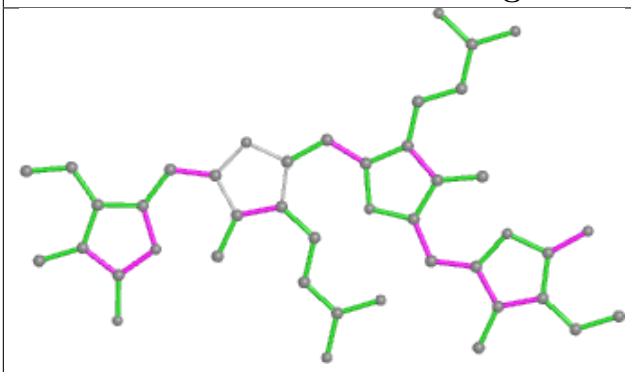


Rings

Ligand CYC D9 1001



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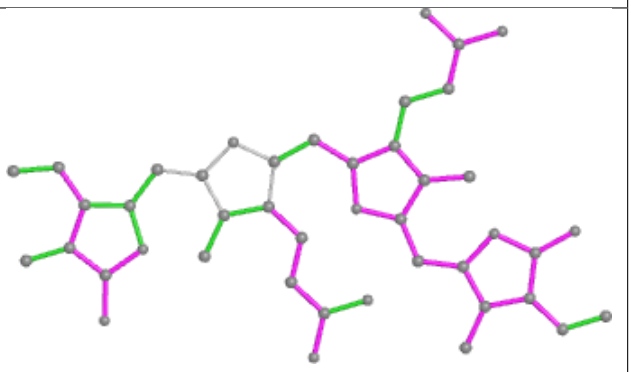
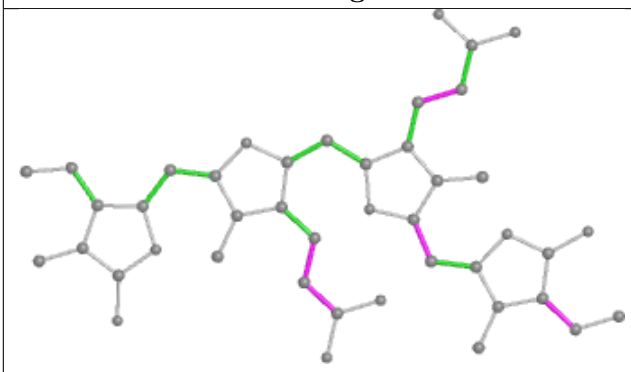


Bond angles



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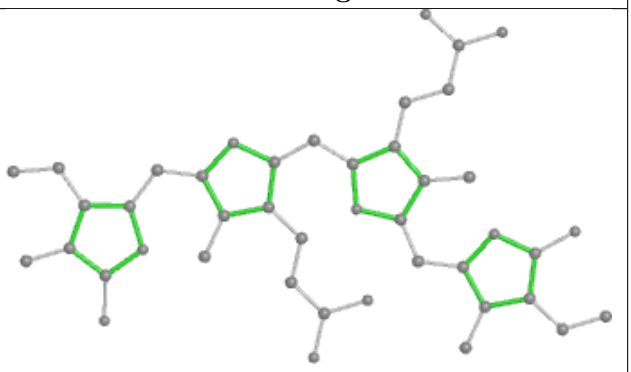
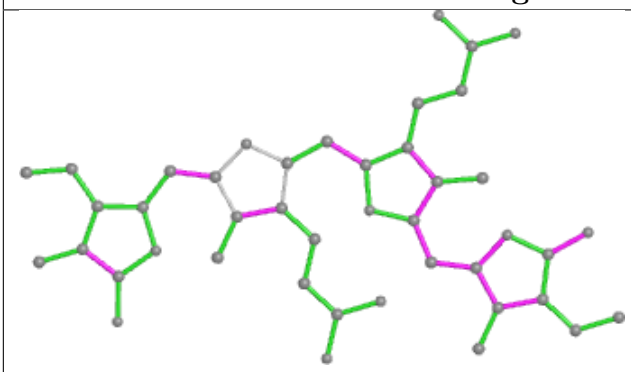


Rings

Ligand CYC j8 1001



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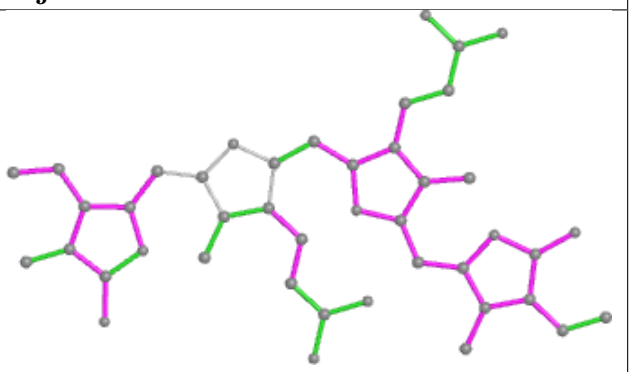
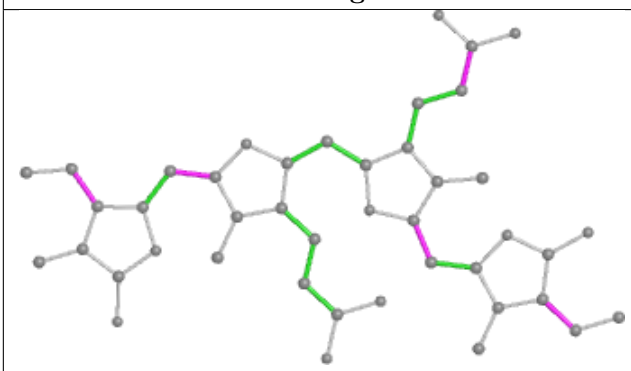


Bond angles



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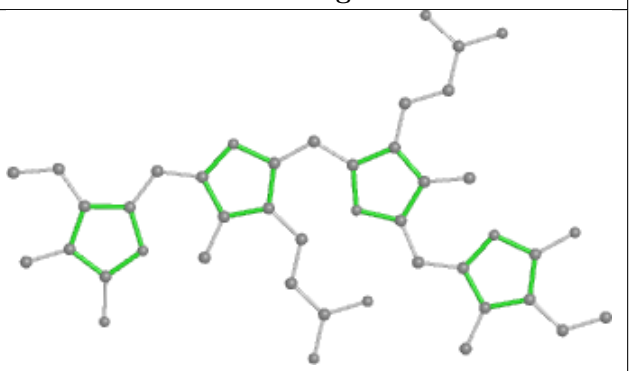
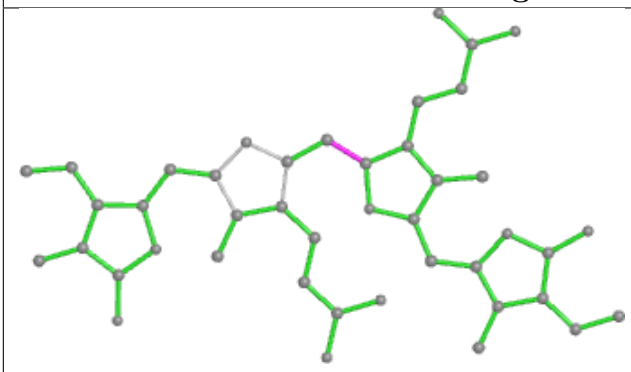


Rings

Ligand CYC G3 202



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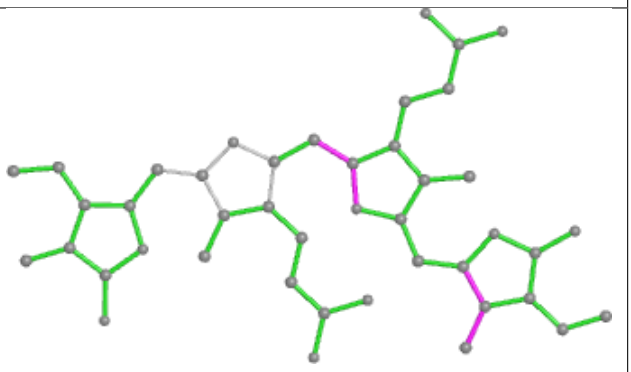
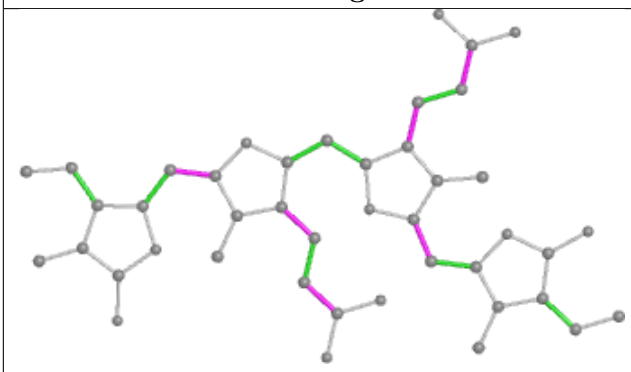


Bond angles



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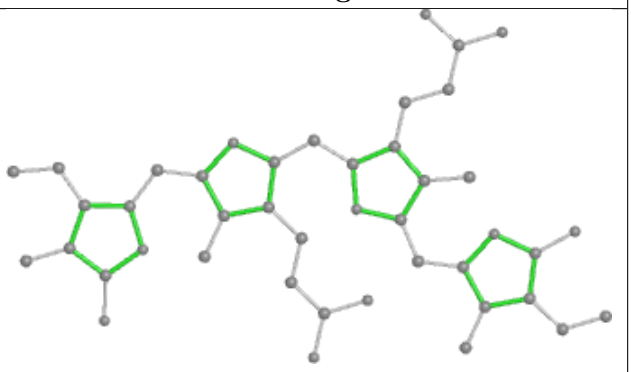
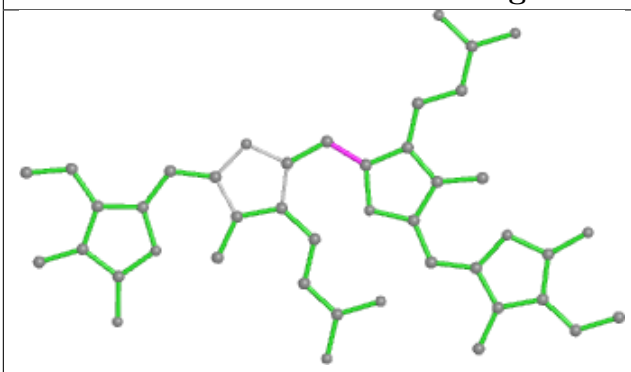


Rings

Ligand CYC CA 201



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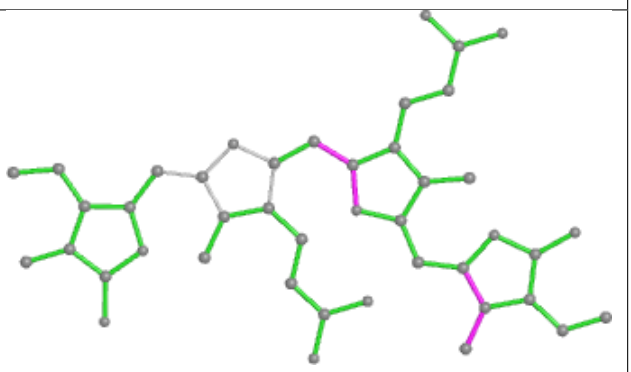

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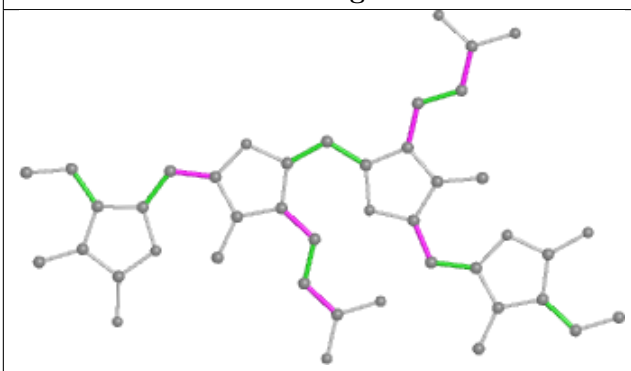
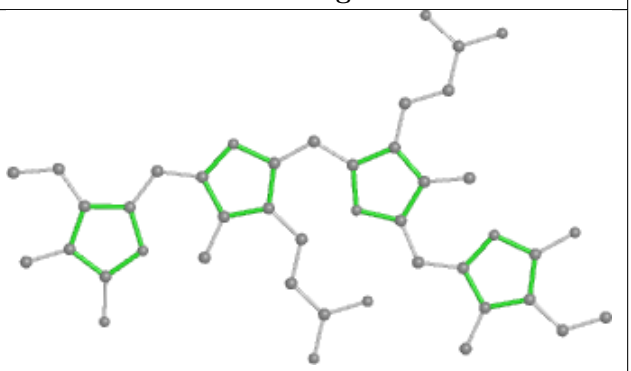
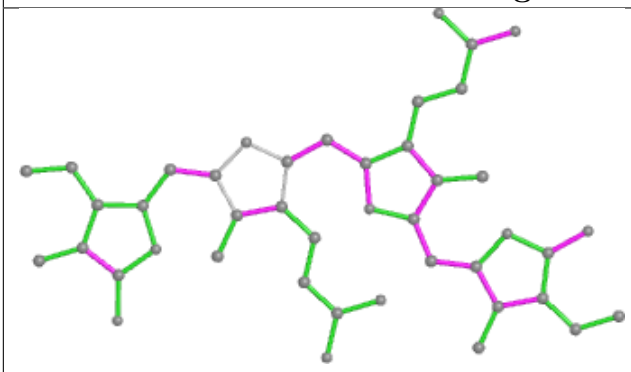


Torsions



Rings

Ligand CYC T5 201



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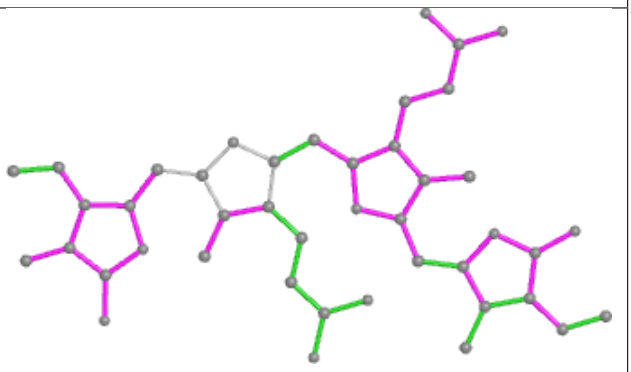
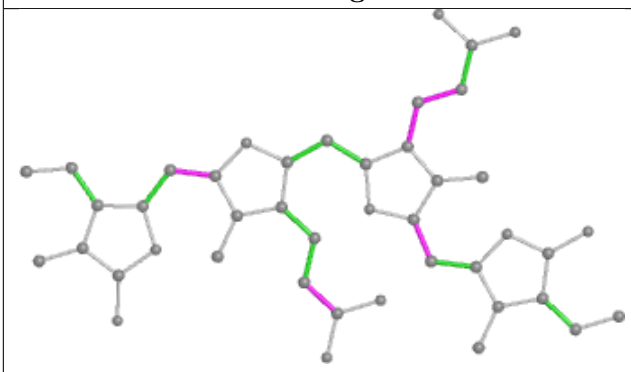


Bond angles



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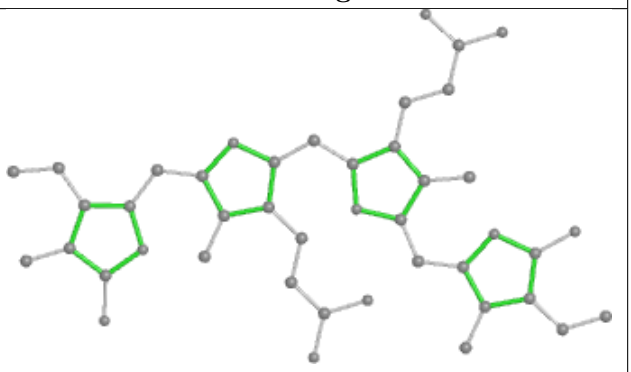
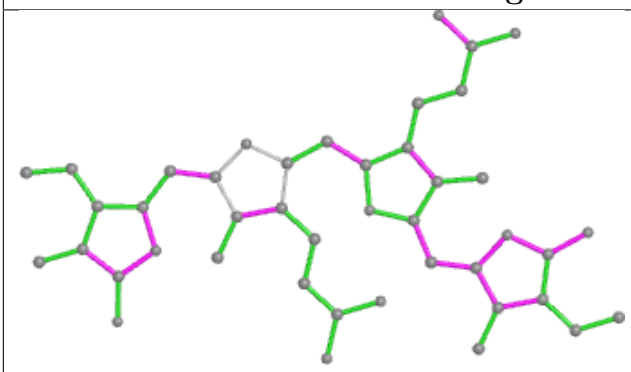


Rings

Ligand CYC F2 1001



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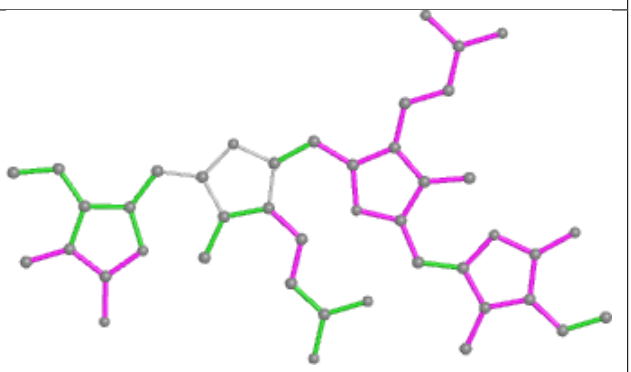

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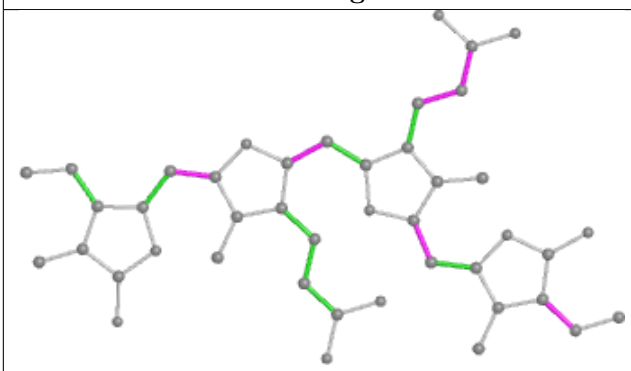

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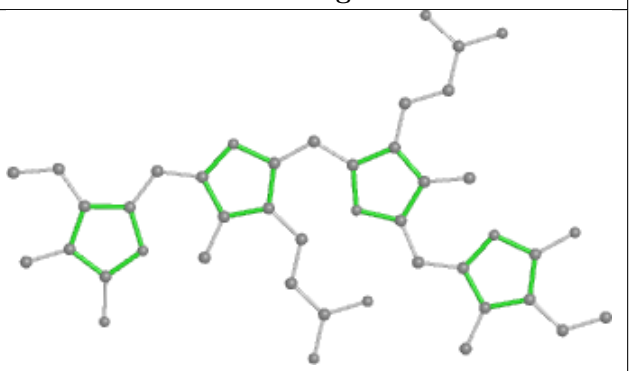
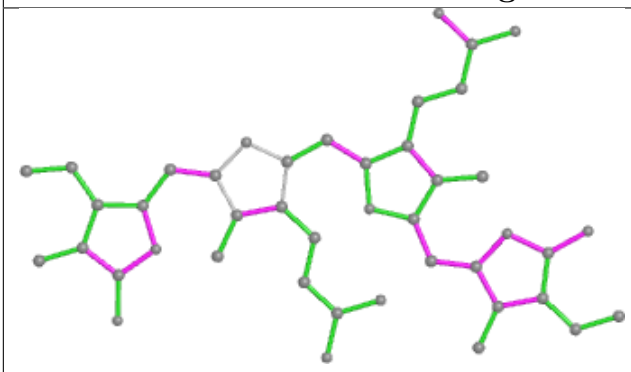


Rings

Ligand CYC GA 1001



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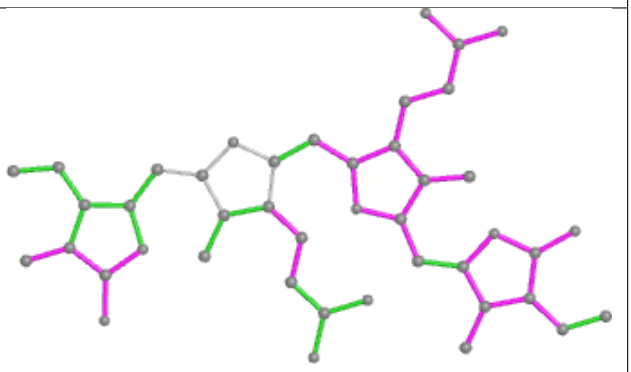
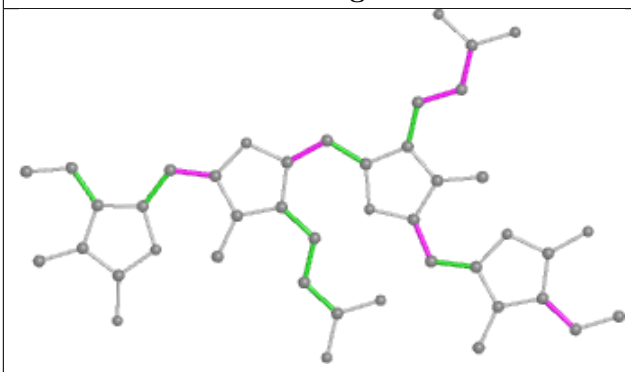


Bond angles



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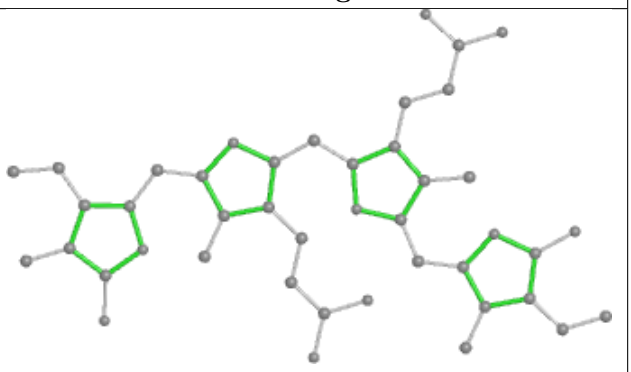
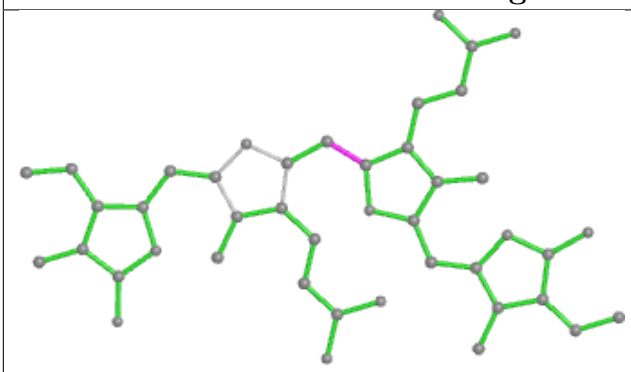


Rings

Ligand CYC M6 201



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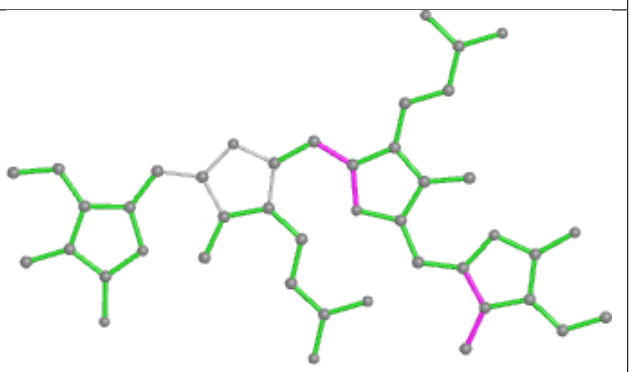
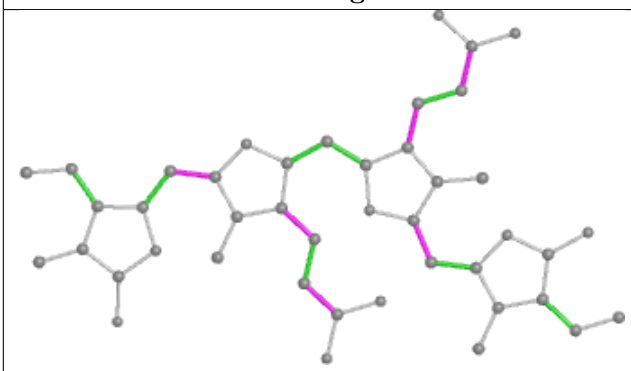


Bond angles



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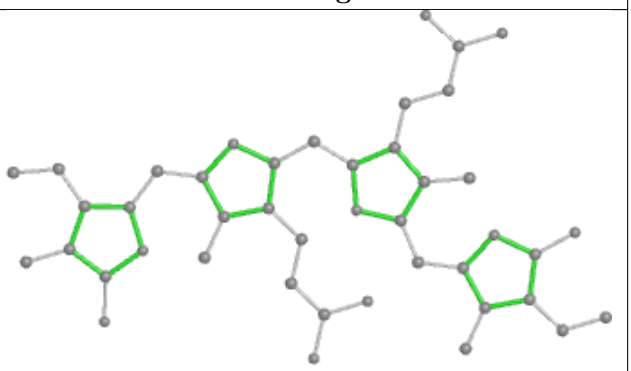
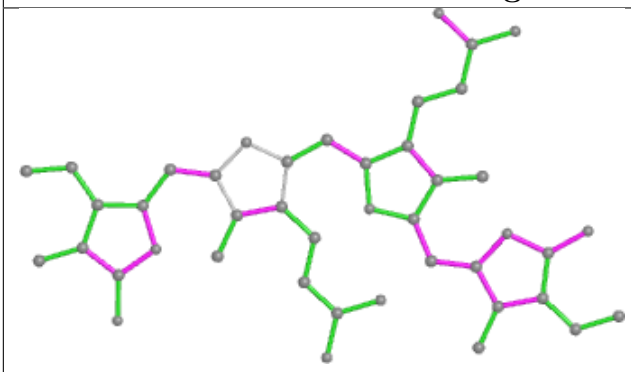


Rings

Ligand CYC R1 1001



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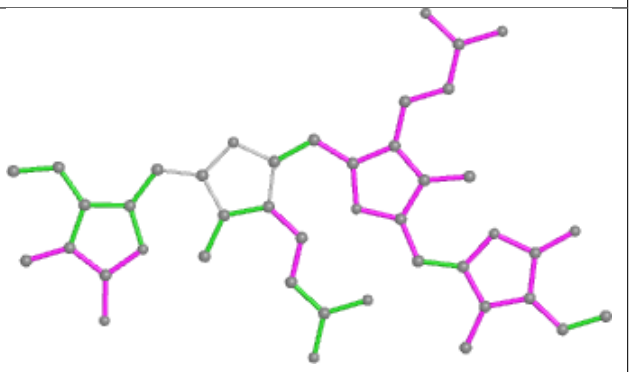
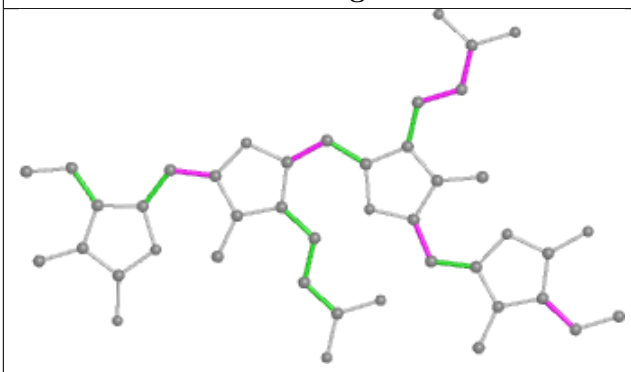


Bond angles



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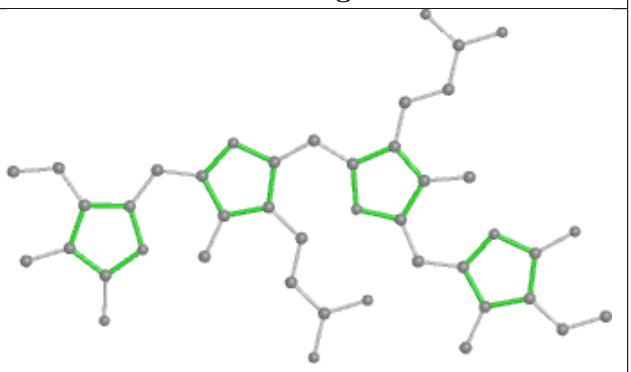
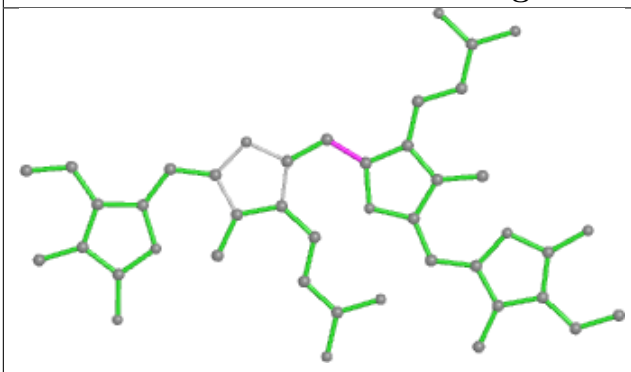
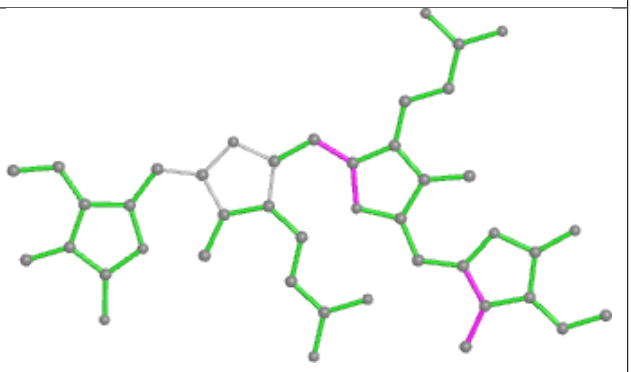


Rings

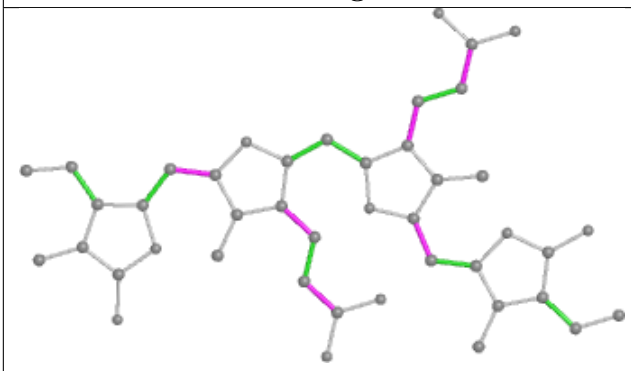
Ligand CYC K7 201



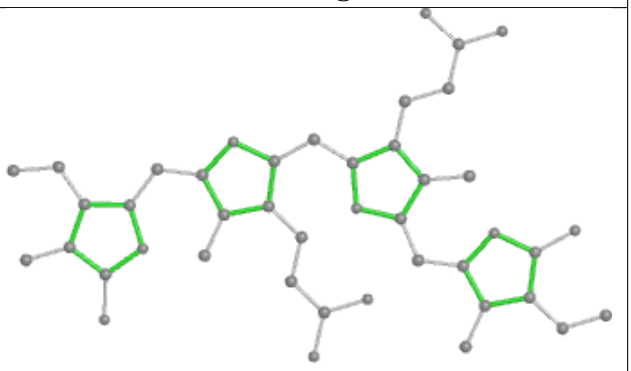
Bond lengths



Bond angles

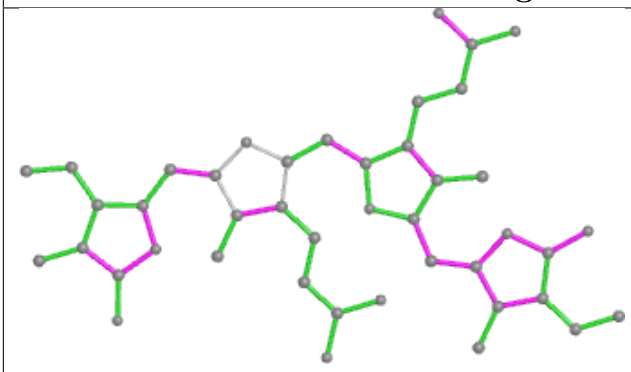


Torsions



Rings

Ligand CYC L2 201



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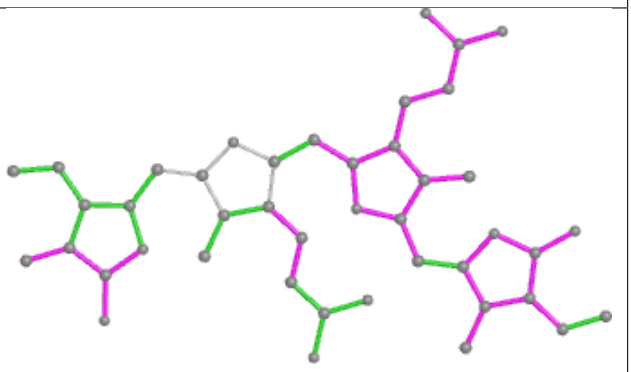

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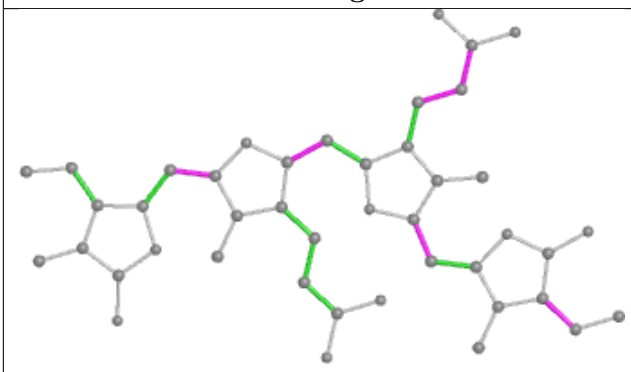

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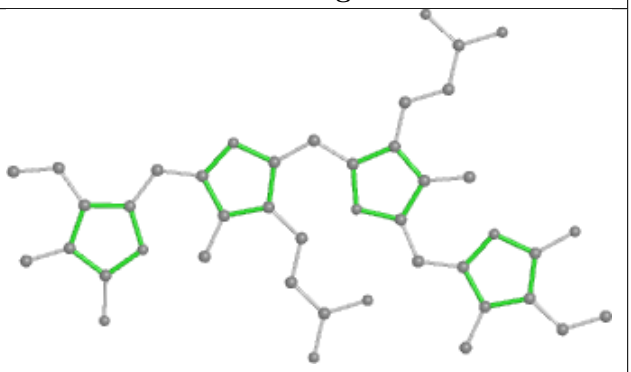
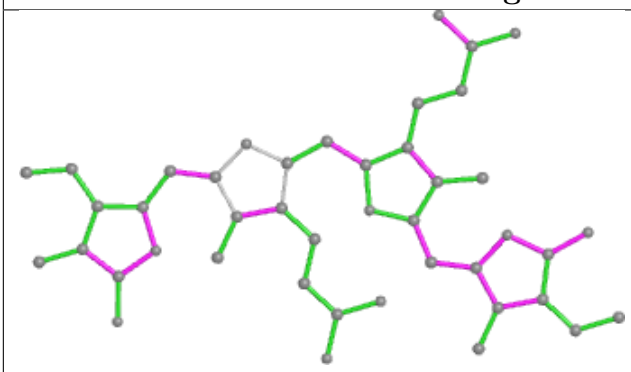


Rings

Ligand CYC D3 1001



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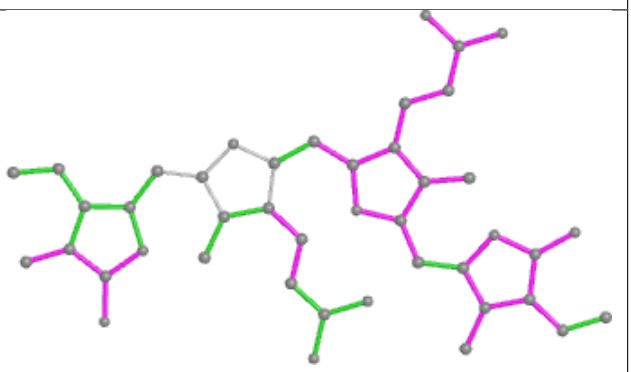
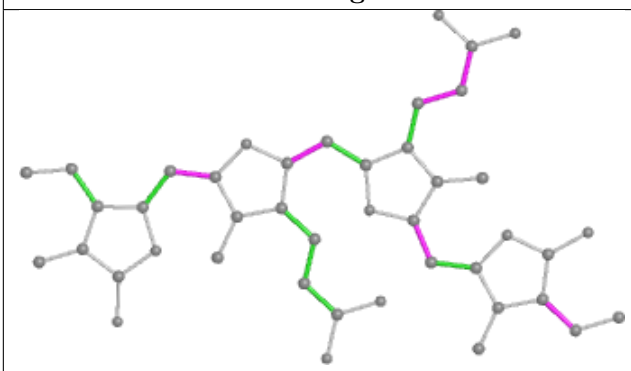


Bond angles



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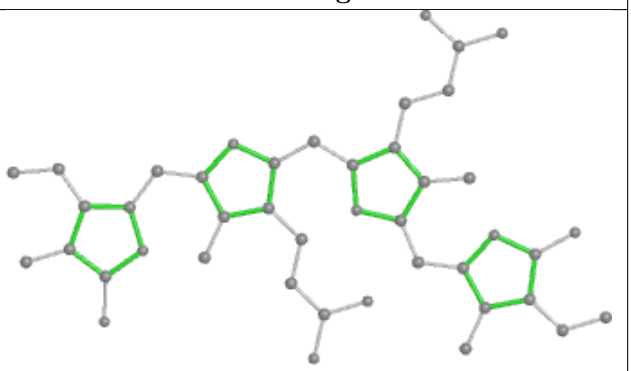
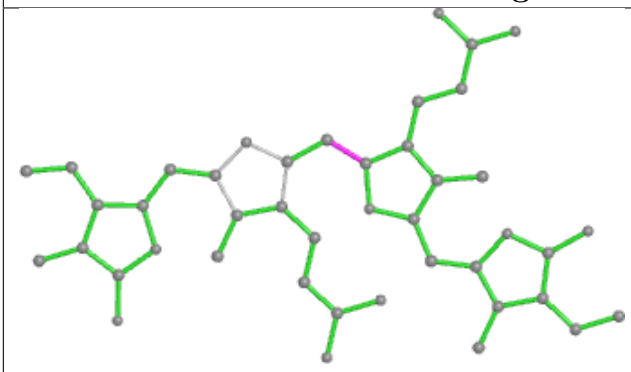


Rings

Ligand CYC K2 201



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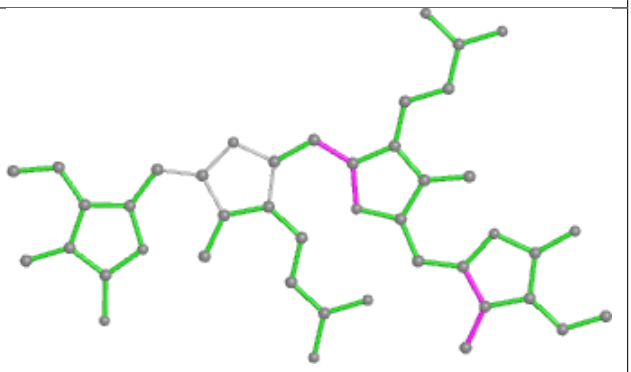
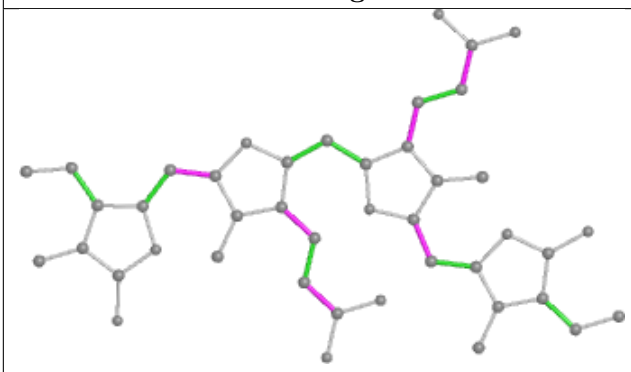


Bond angles



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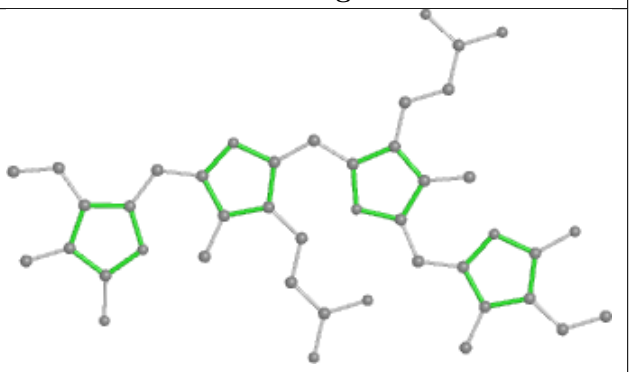
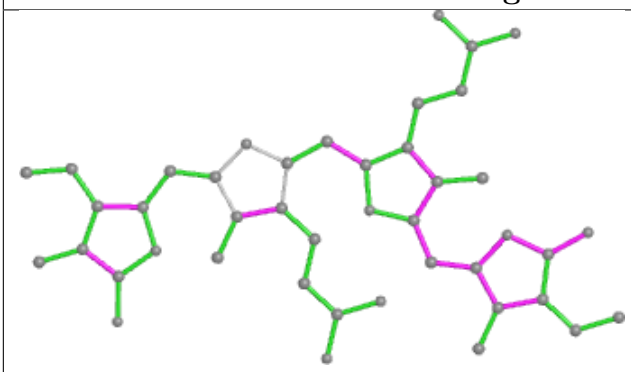


Rings

Ligand CYC K9 1001



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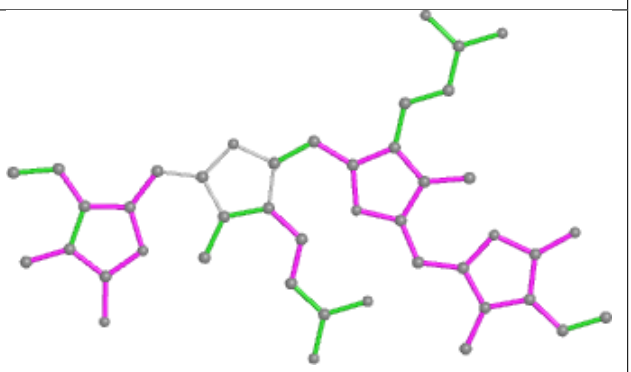
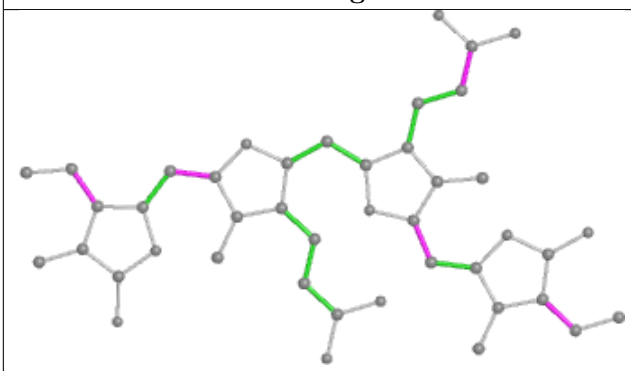
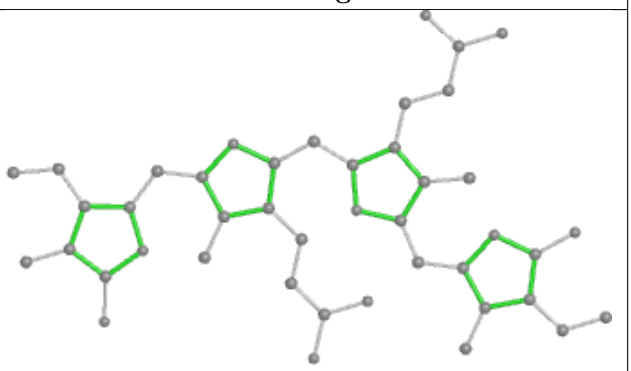


Bond angles

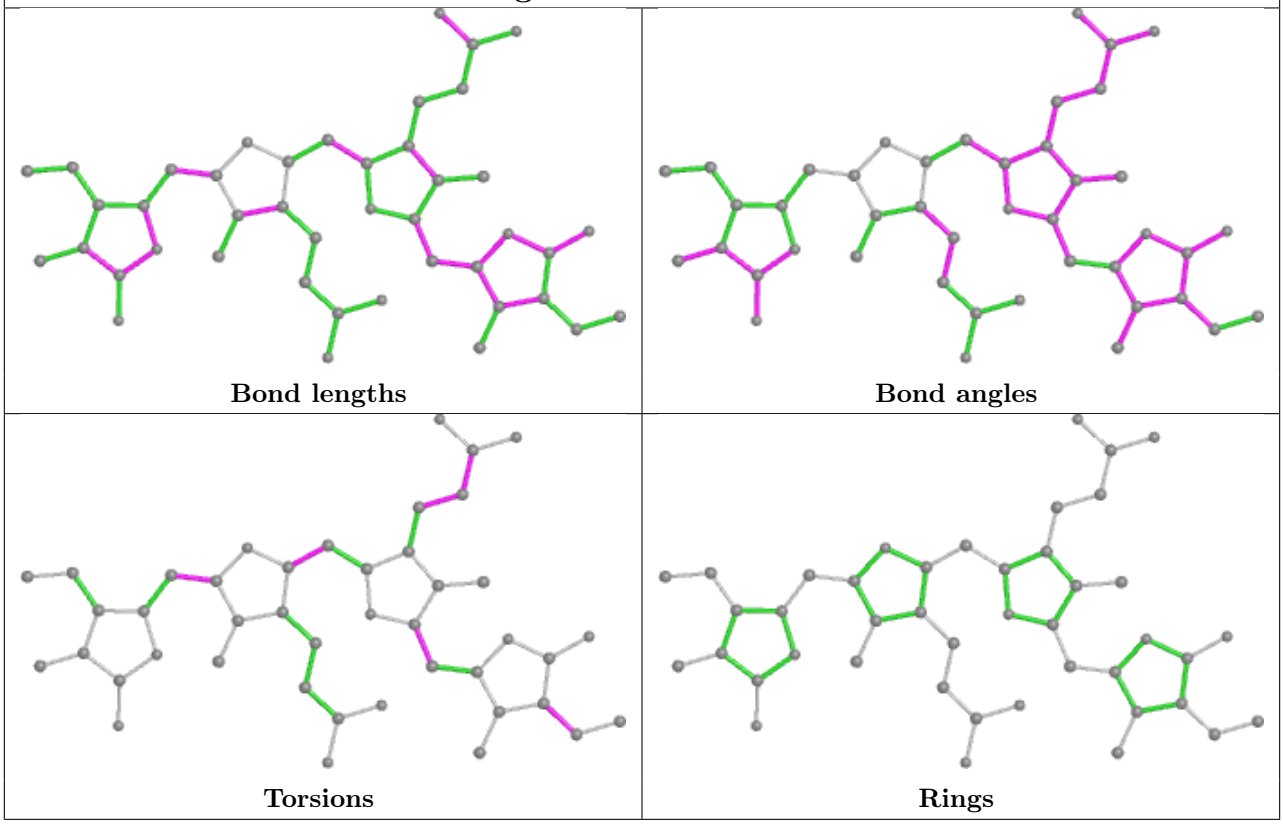


Torsions

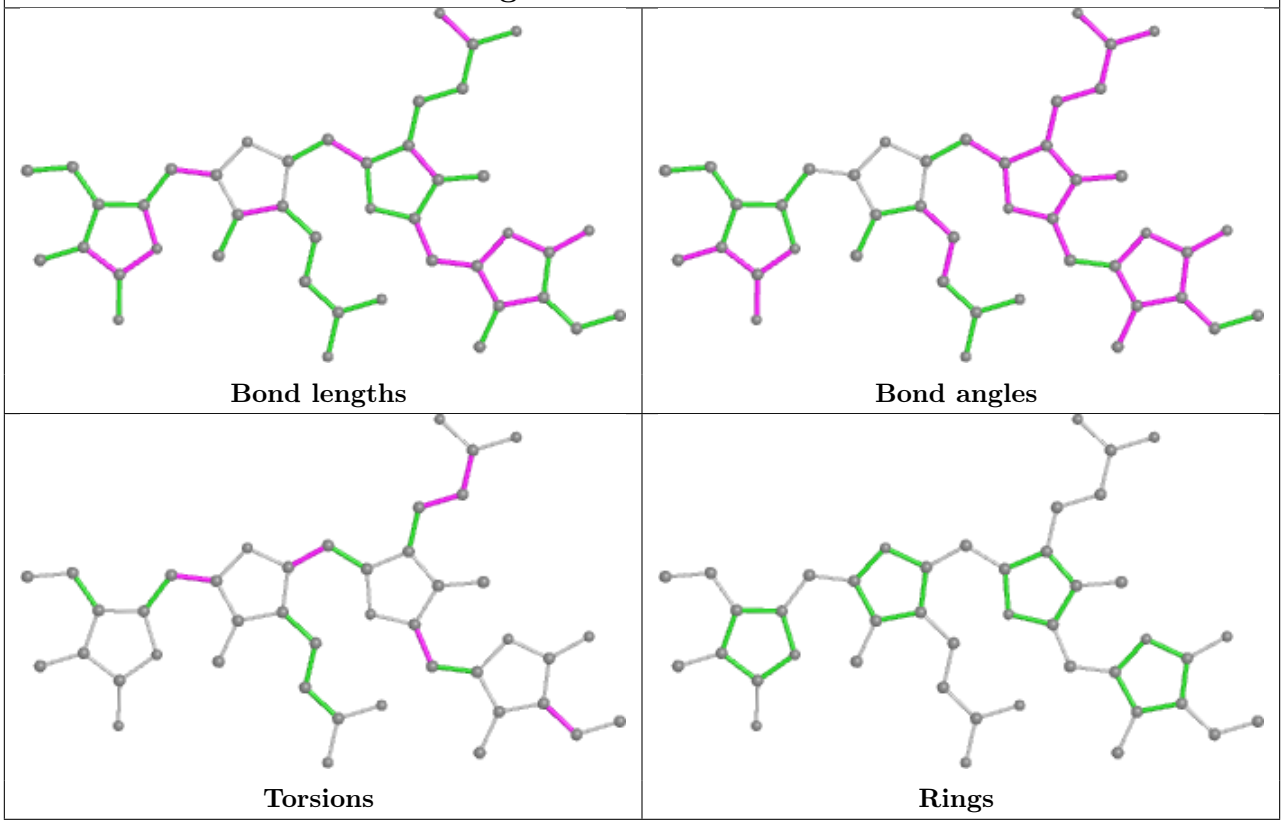


Rings

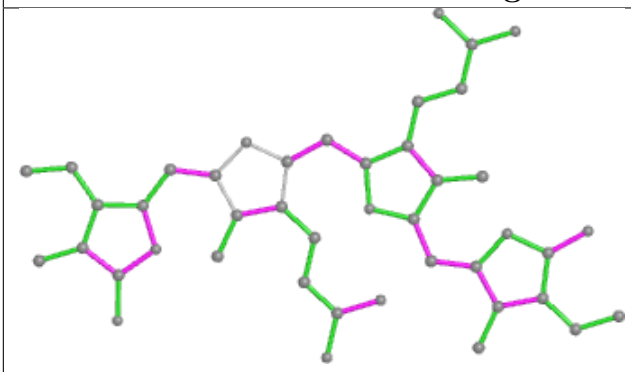
Ligand CYC T1 202



Ligand CYC W1 1001



Ligand CYC Y8 1001



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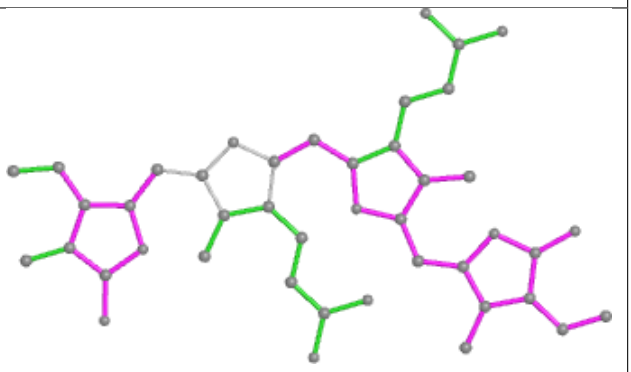
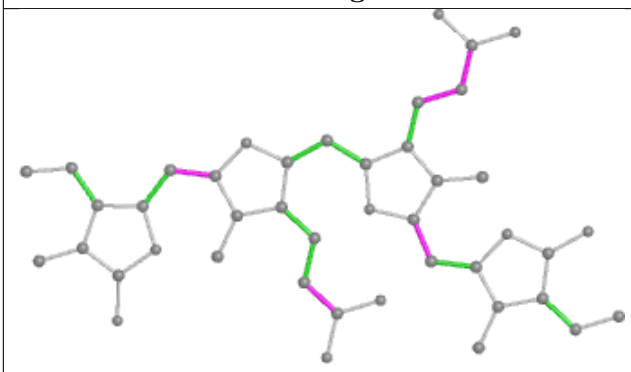


Bond angles



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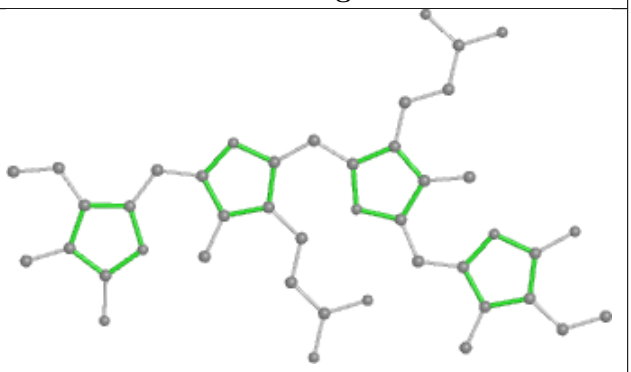
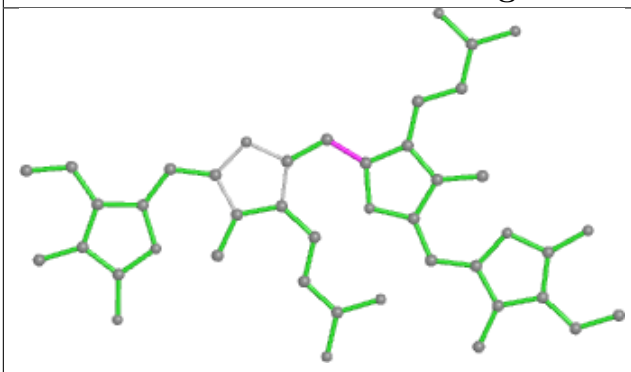
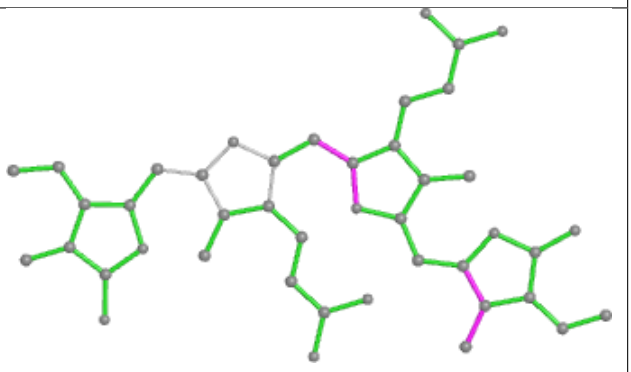


Rings

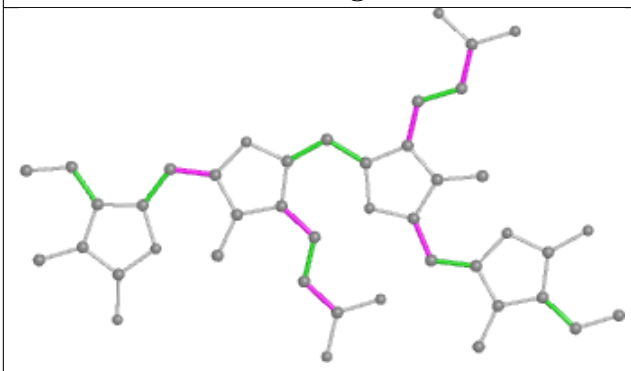
Ligand CYC GA 1002



Bond lengths



Bond angles



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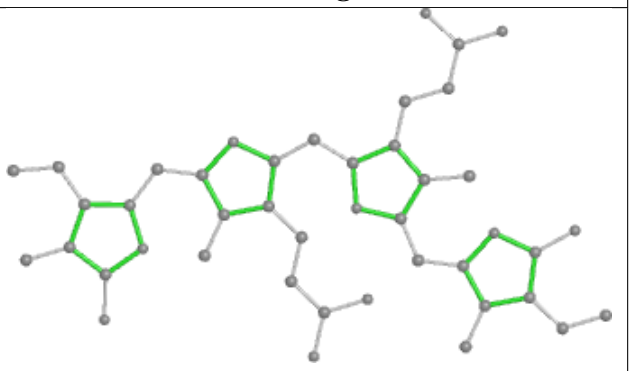
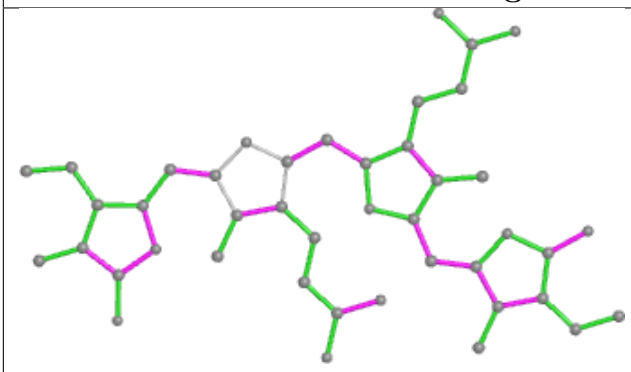


Rings

Ligand CYC B8 1001



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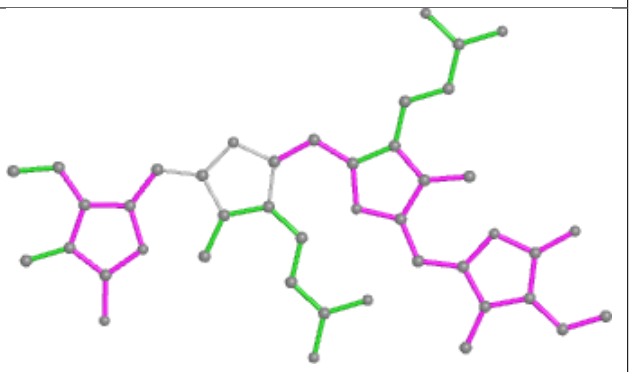
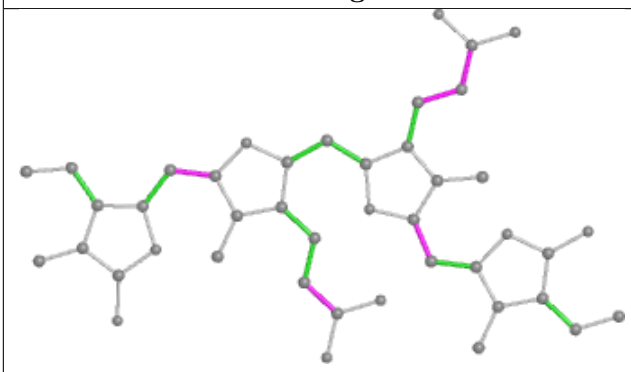
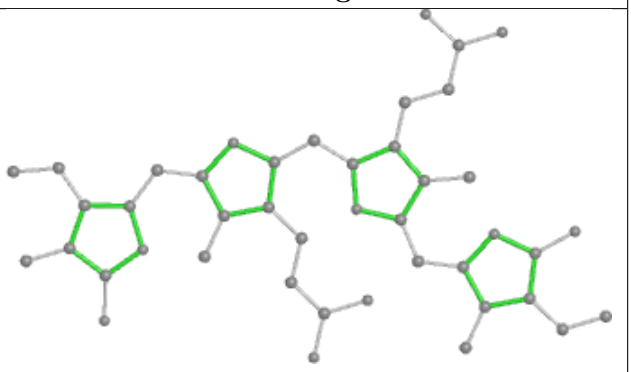


Bond angles

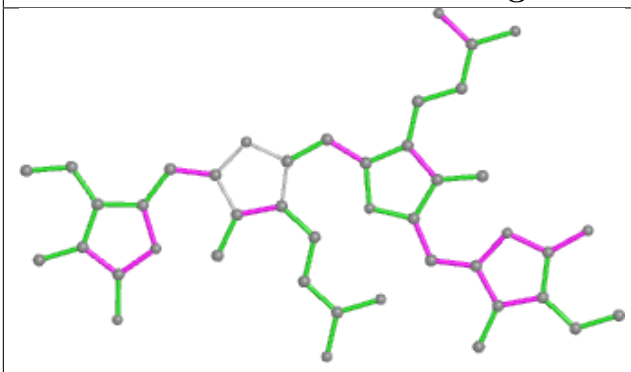


Torsions



Rings

Ligand CYC J1 1001



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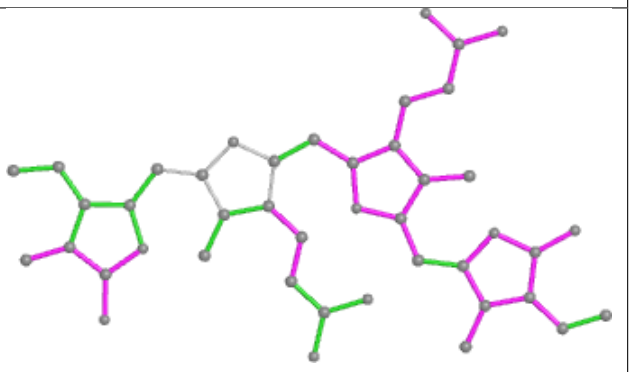
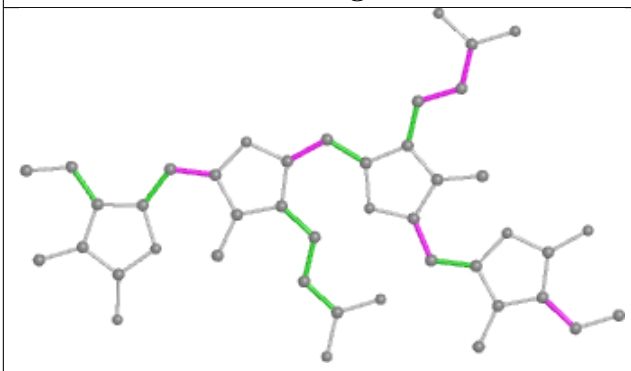
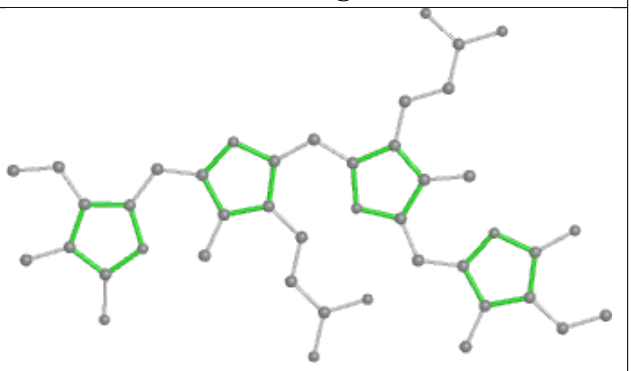


Bond angles

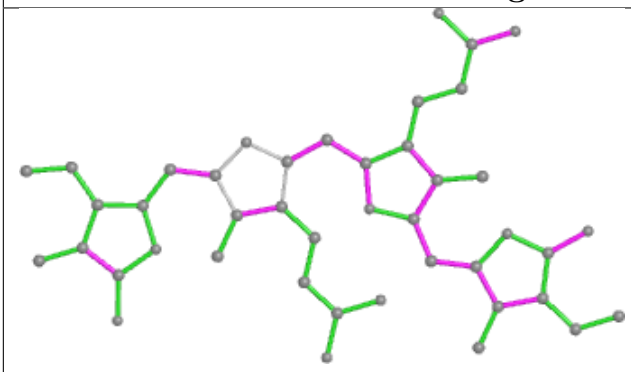


Torsions



Rings

Ligand CYC AA 304



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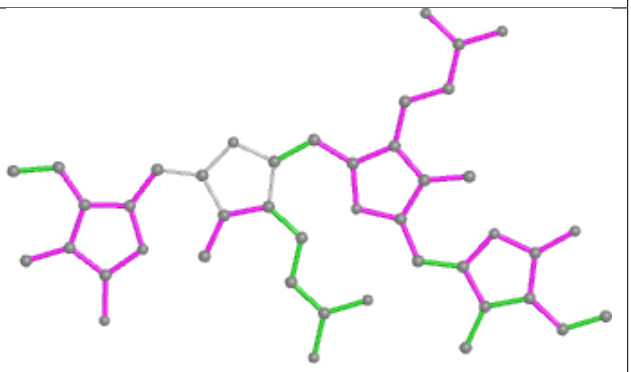
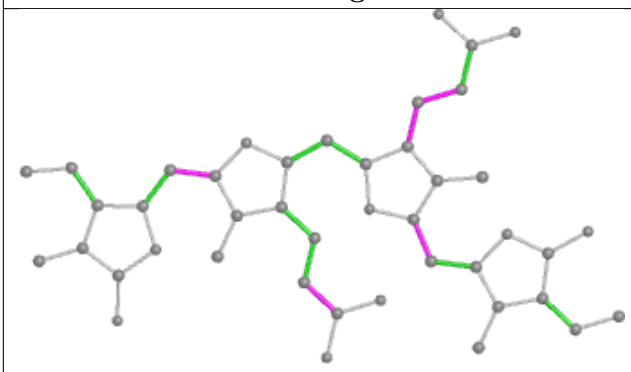


Bond angles



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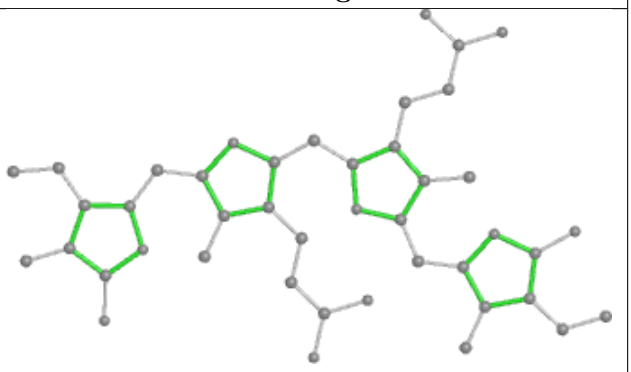
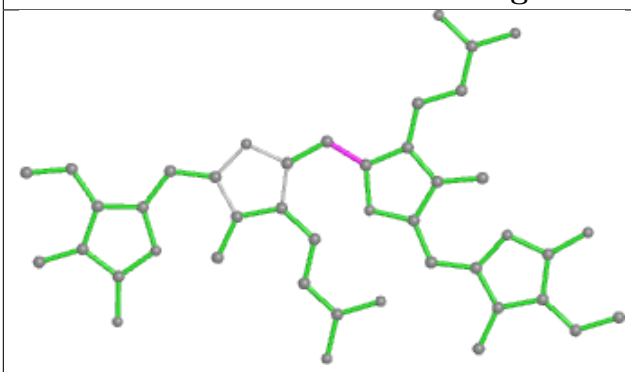


Rings

Ligand CYC TA 202



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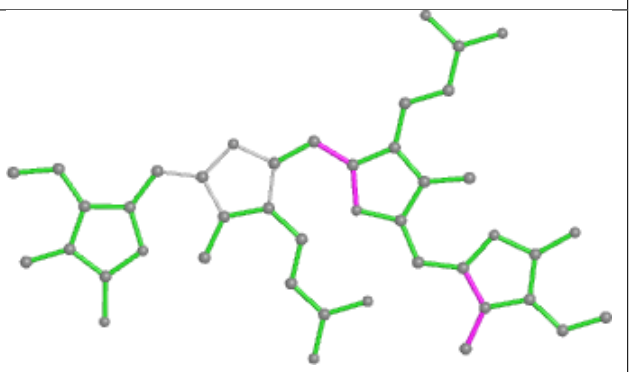

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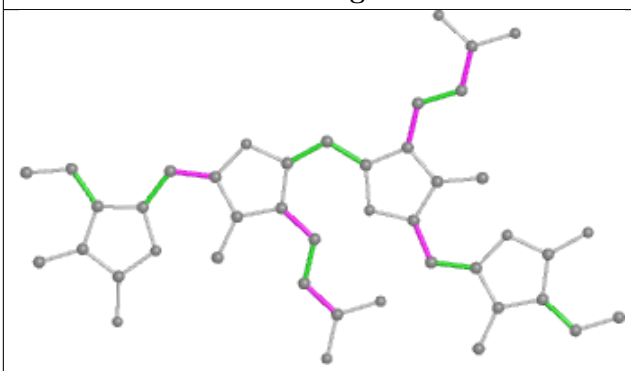

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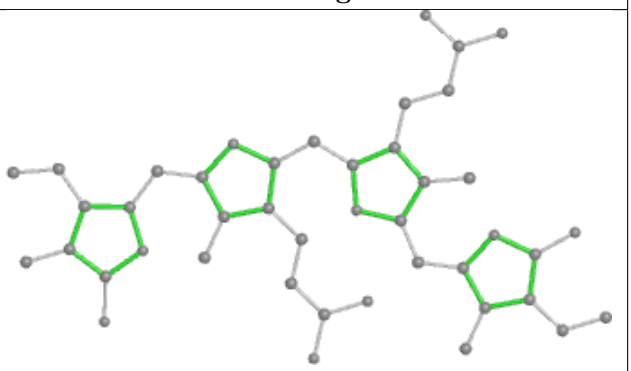
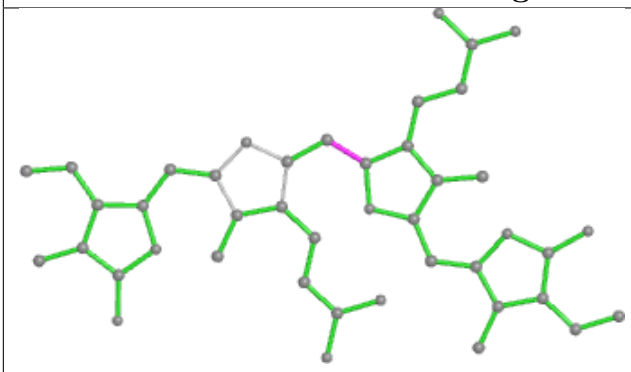


Rings

Ligand CYC K1 202



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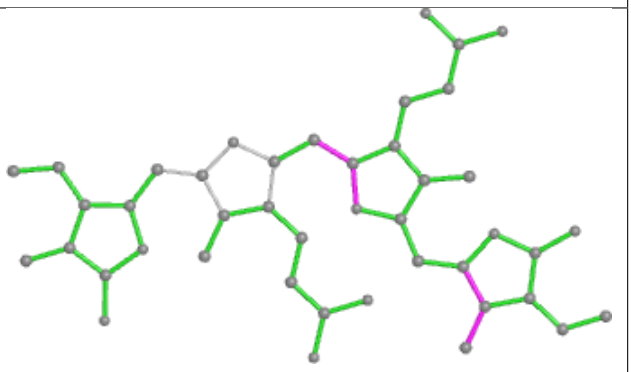
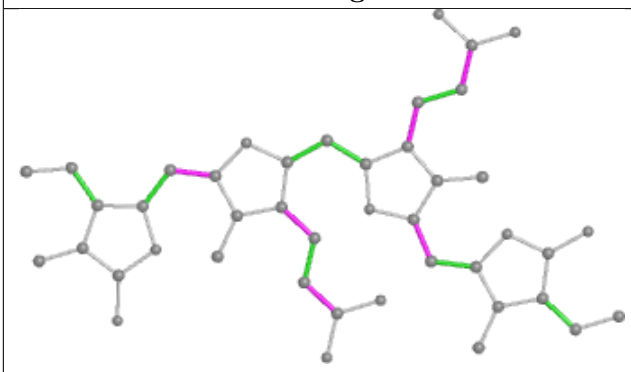


Bond angles



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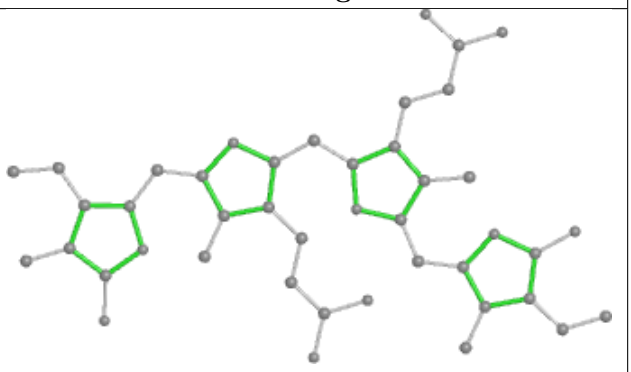
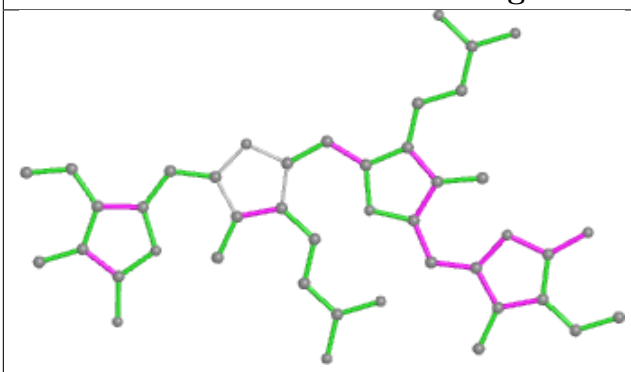


Rings

Ligand CYC y9 1001



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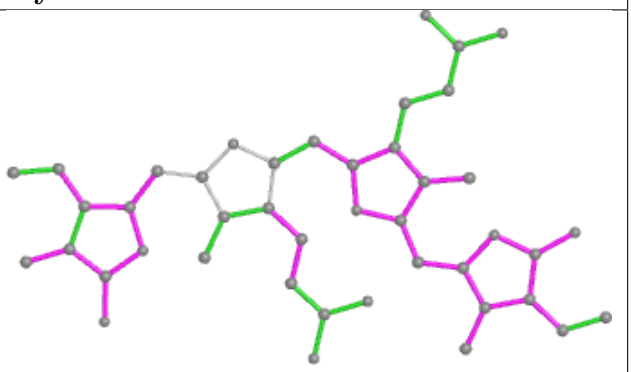
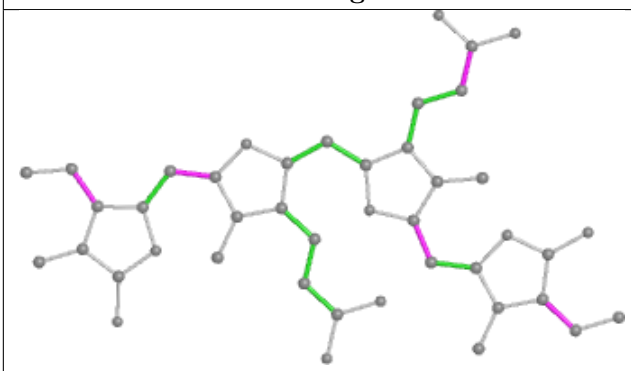


Bond angles



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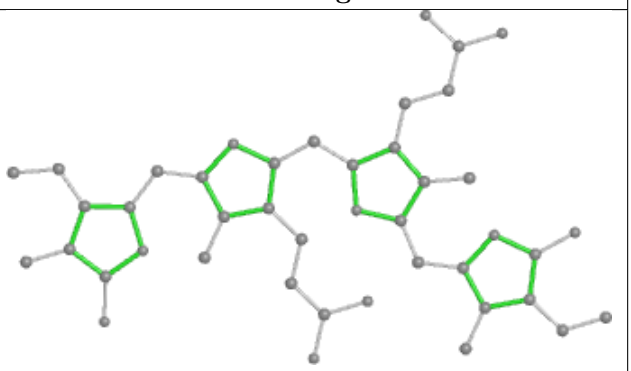
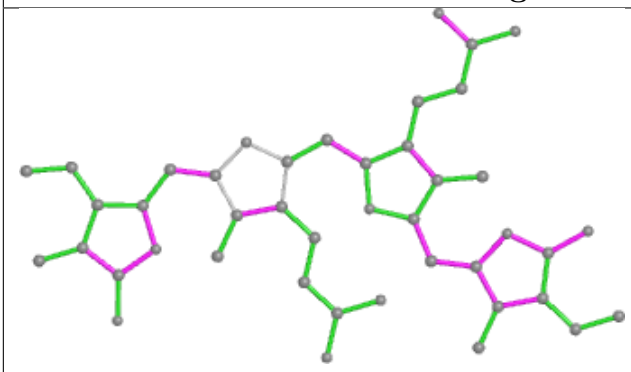


Rings

Ligand CYC EA 202



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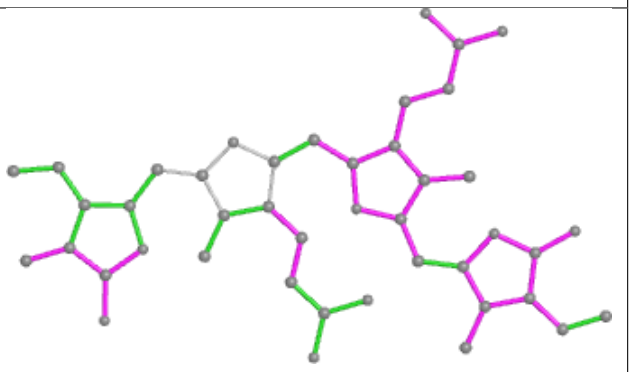
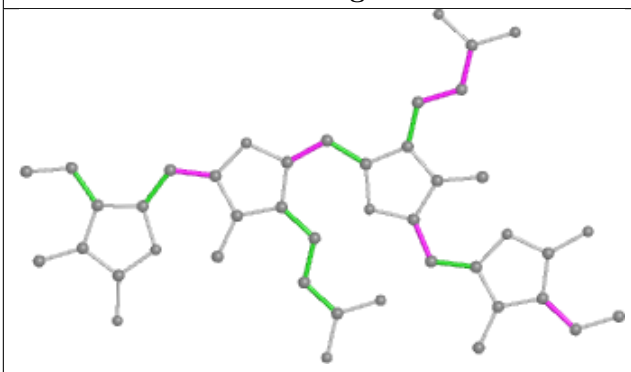
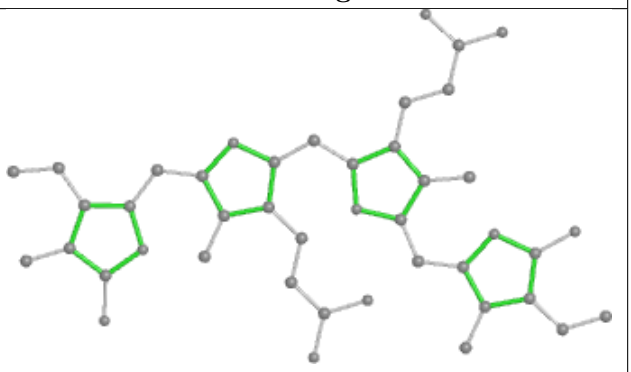


Bond angles

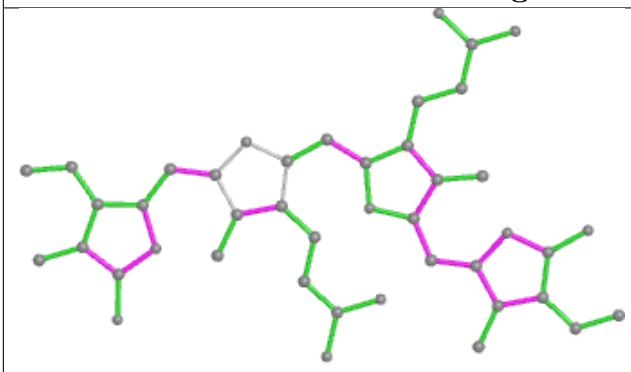


Torsions



Rings

Ligand CYC m9 201



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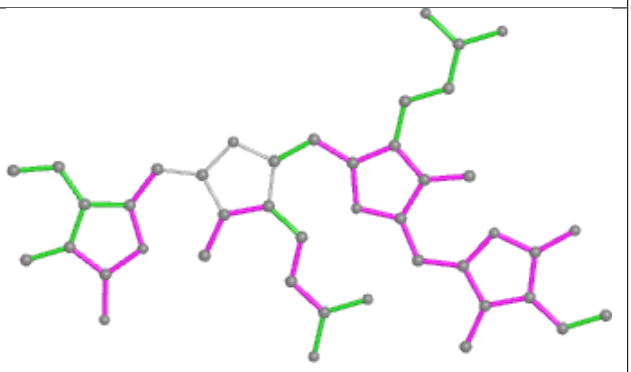
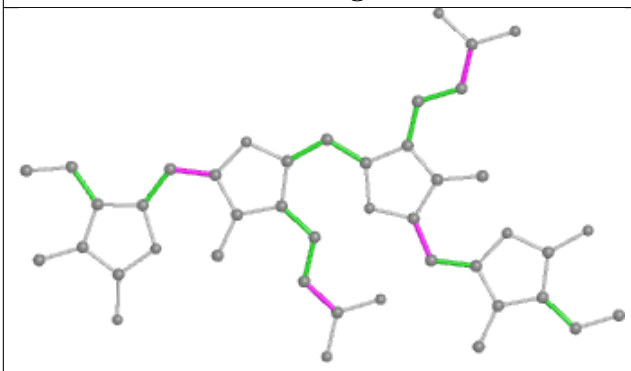


Bond angles



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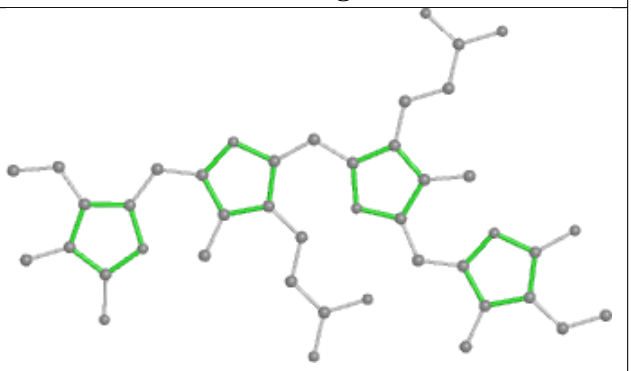
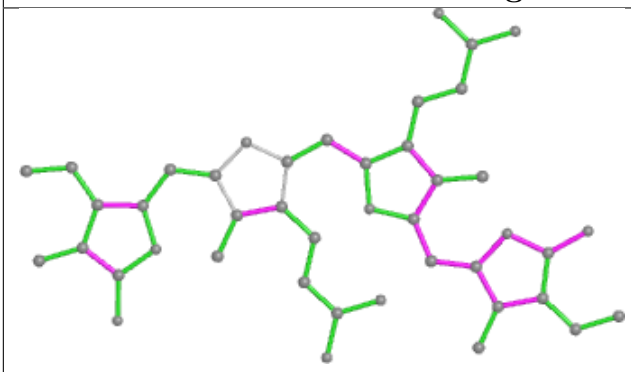


Rings

Ligand CYC E9 1001



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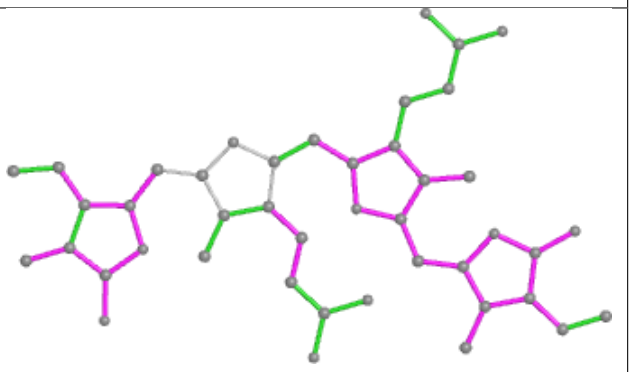

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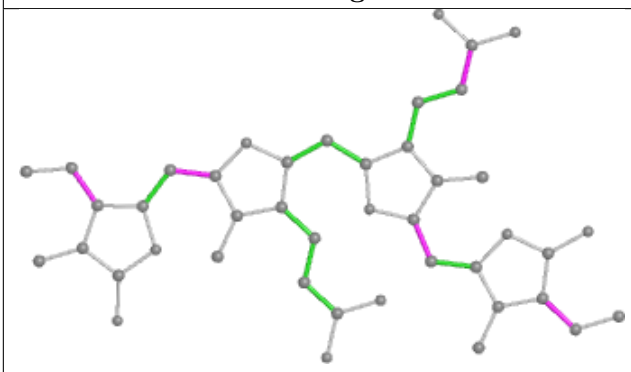

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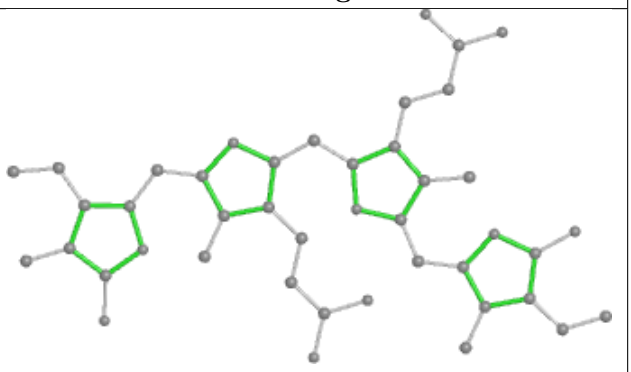
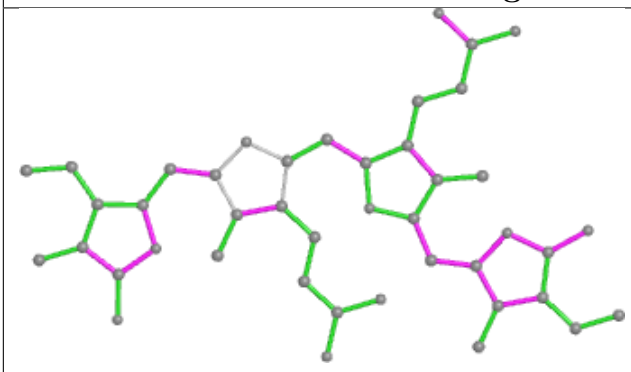


Rings

Ligand CYC U5 1001



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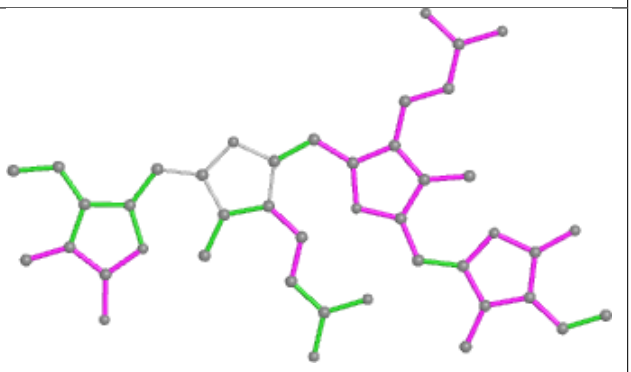
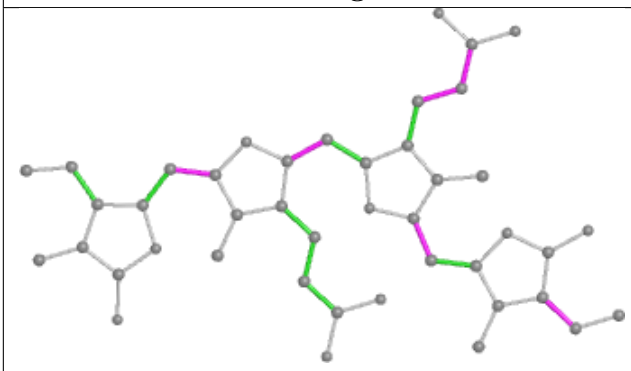


Bond angles



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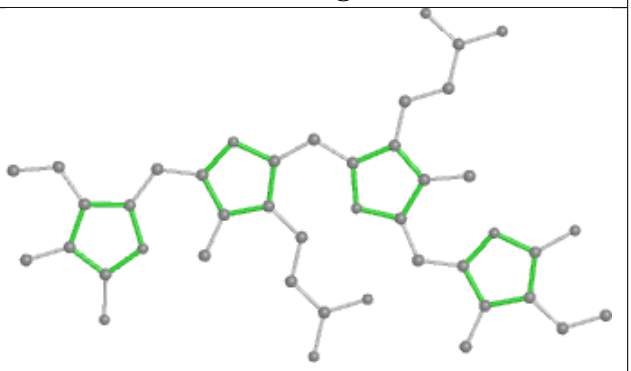
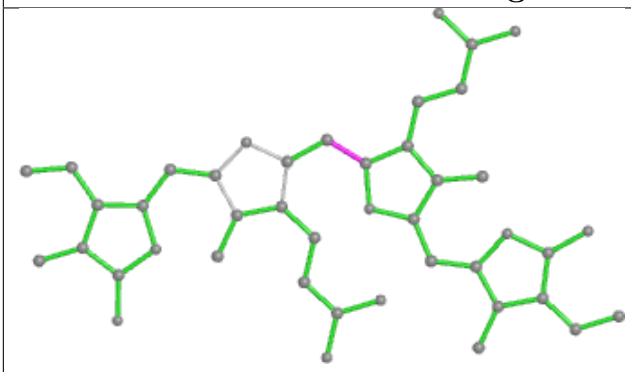


Rings

Ligand CYC W2 201



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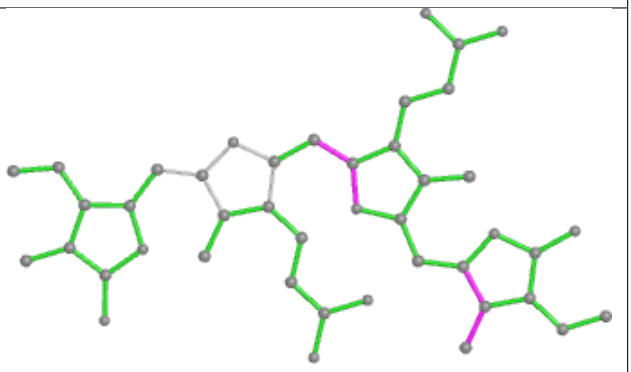

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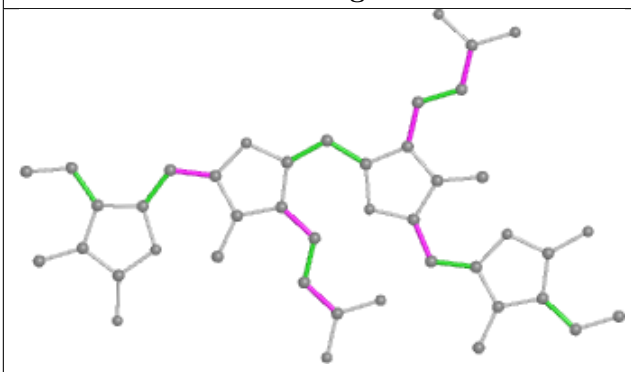

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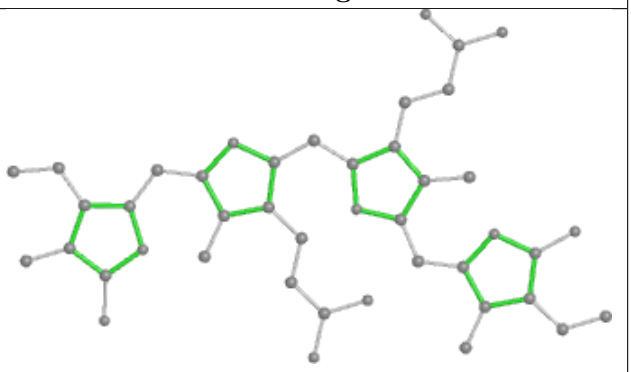
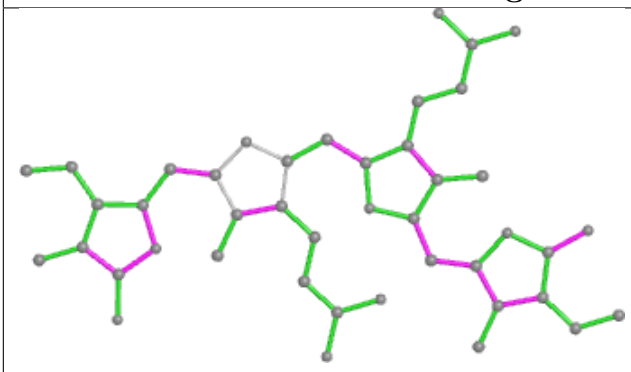


Rings

Ligand CYC F9 1001



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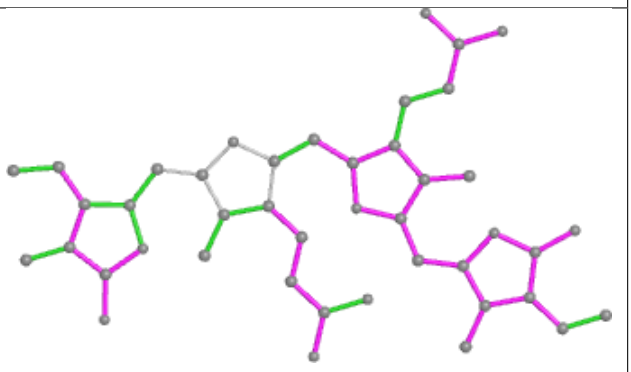

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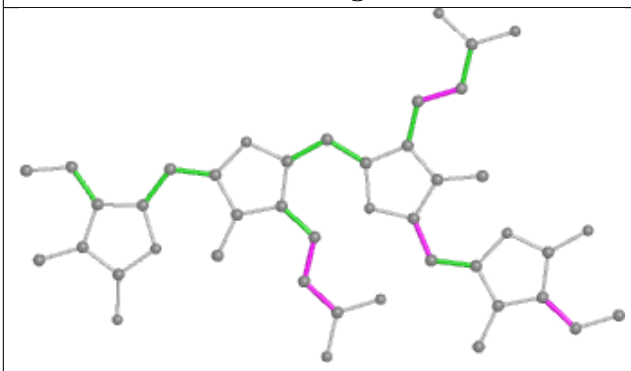

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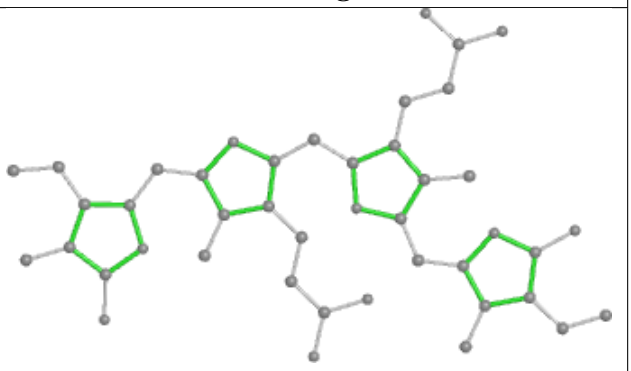
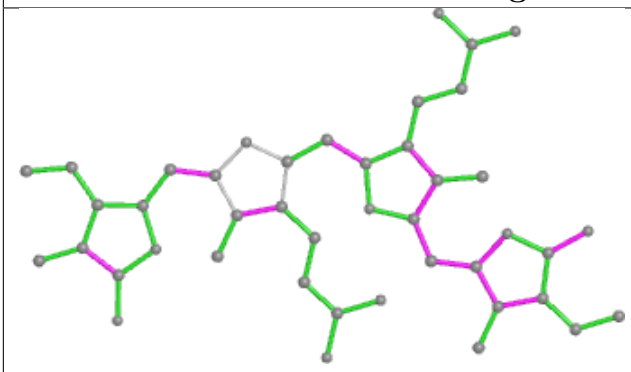


Rings

Ligand CYC c8 1001



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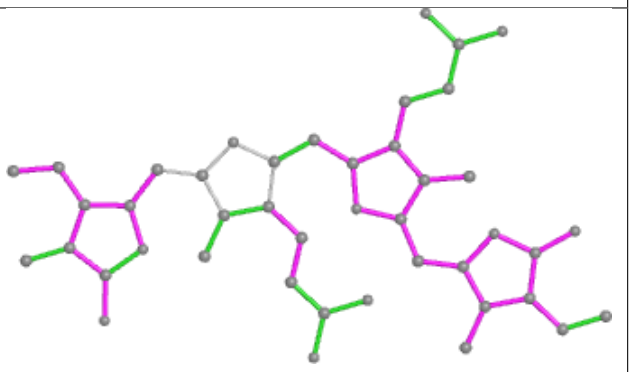

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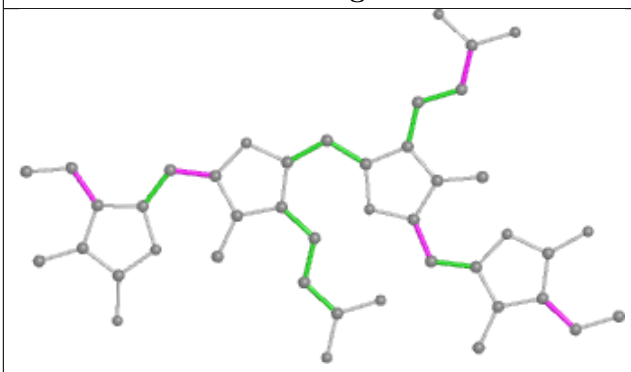

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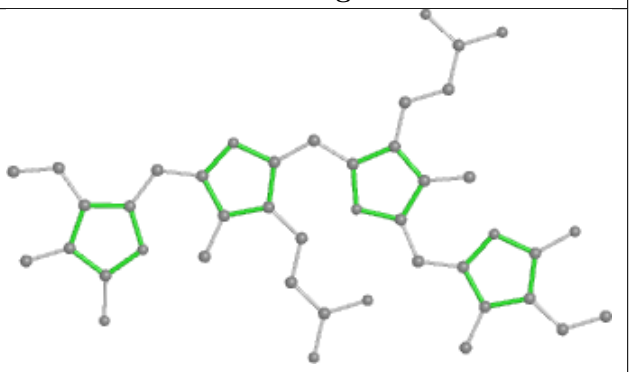
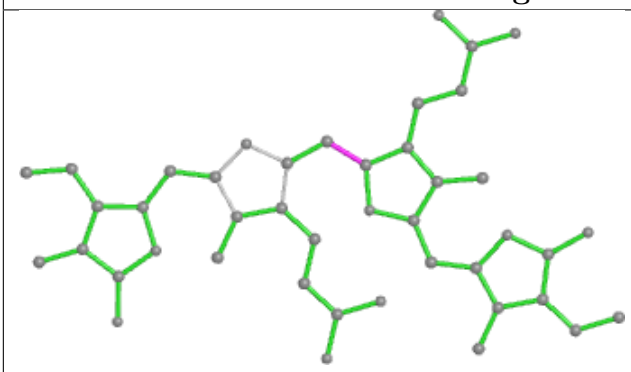


Rings

Ligand CYC X4 202



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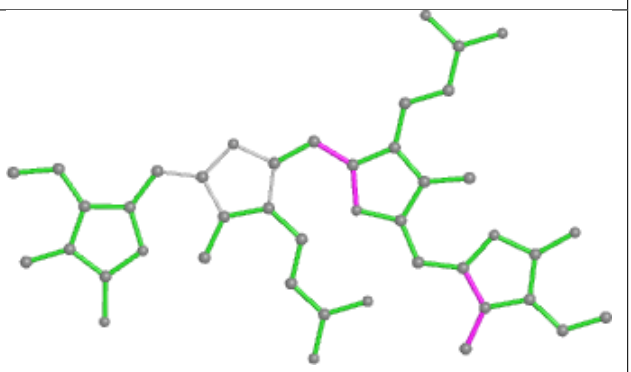

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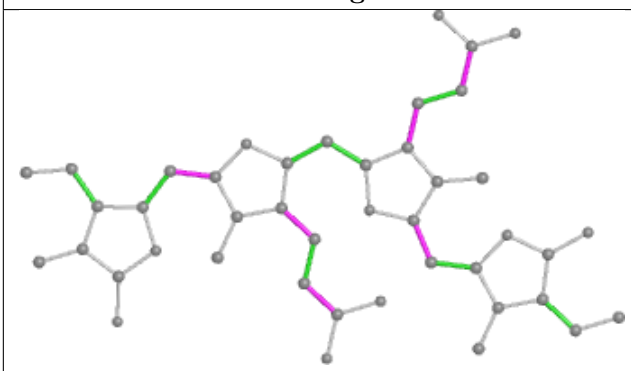

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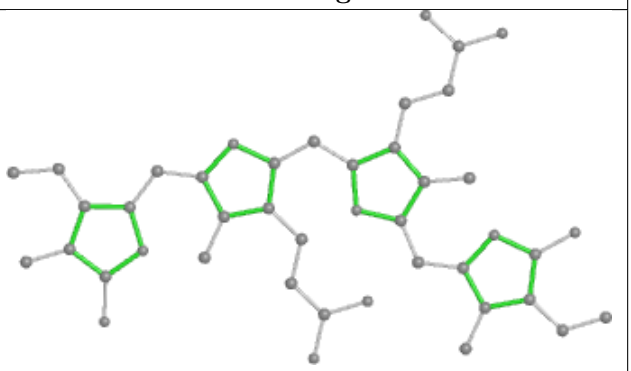
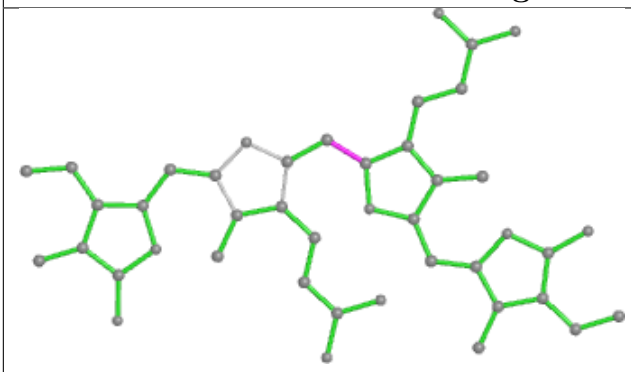


Rings

Ligand CYC U2 201



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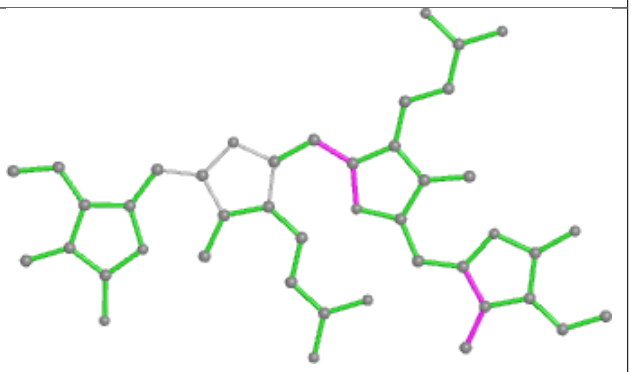

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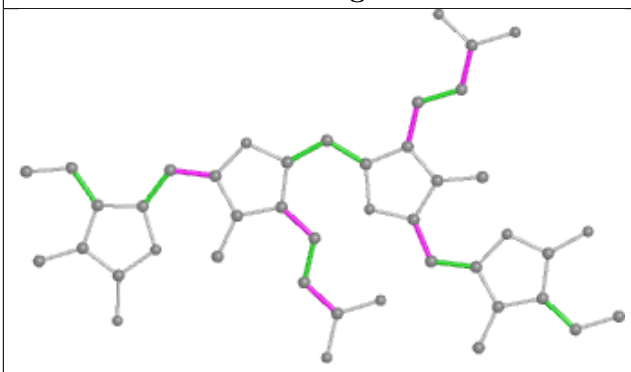
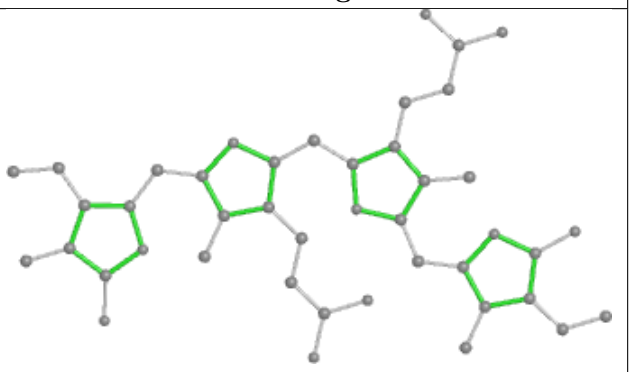
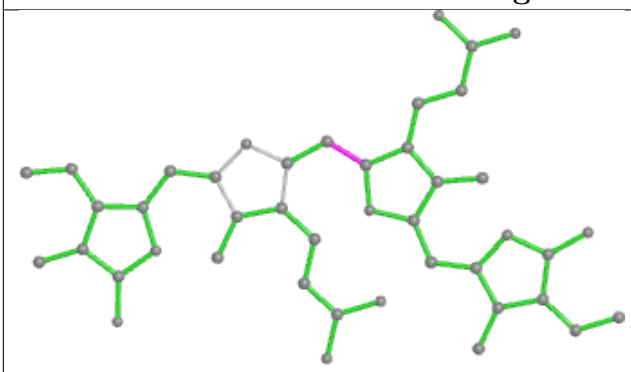


Torsions



Rings

Ligand CYC C5 201



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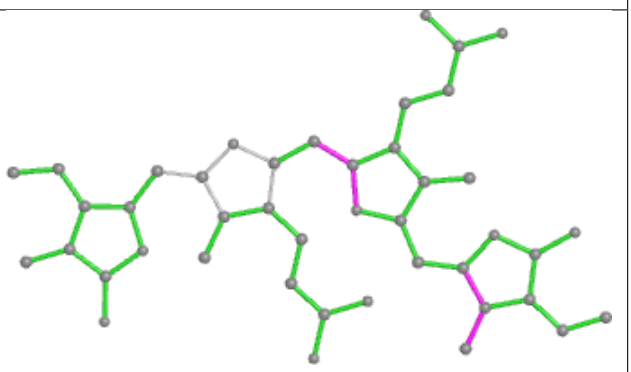

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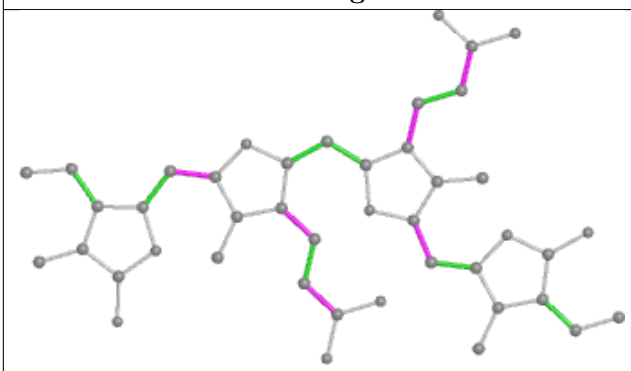

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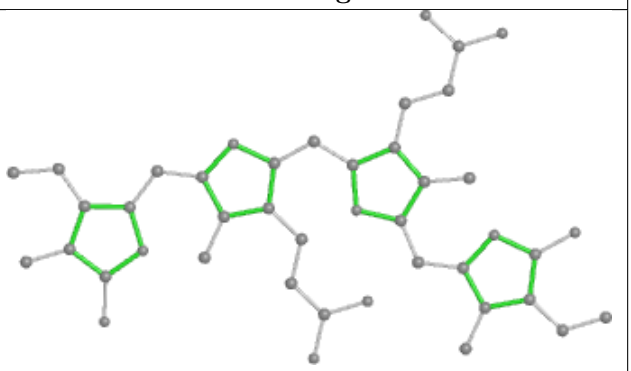
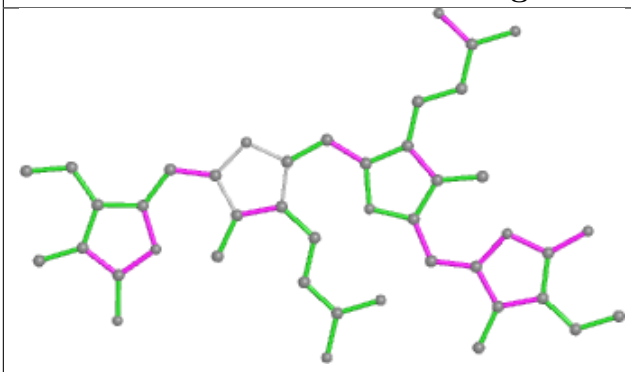


Rings

Ligand CYC LA 201



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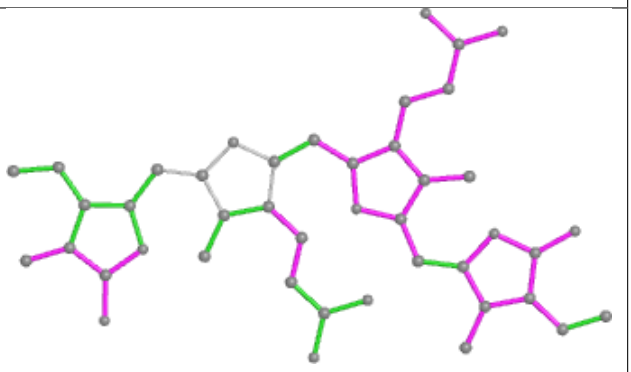
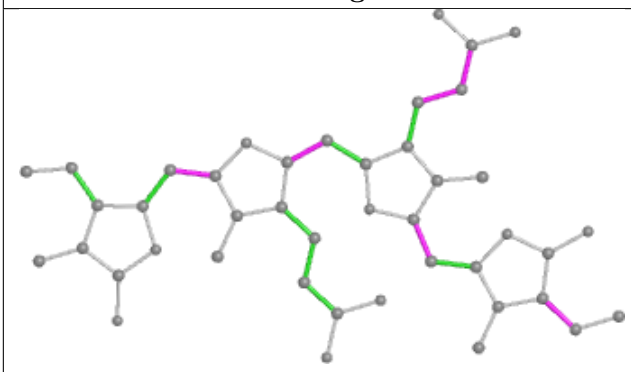


Bond angles



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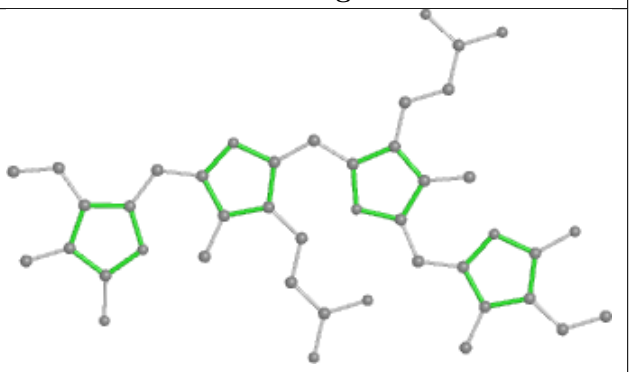
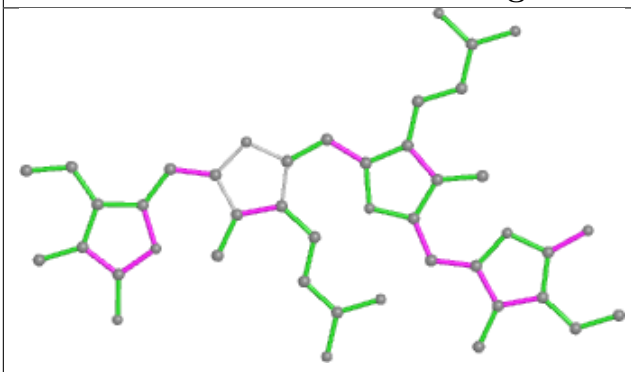


Rings

Ligand CYC v9 1001



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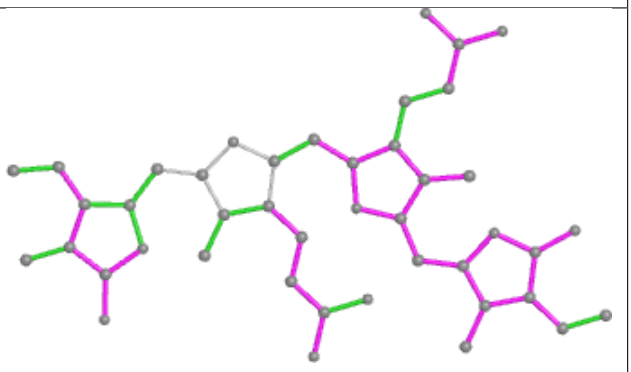
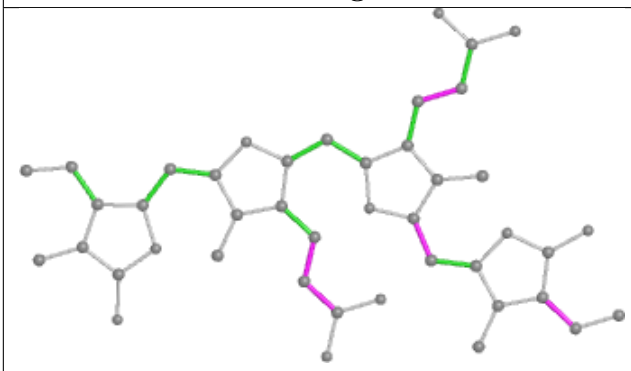


Bond angles



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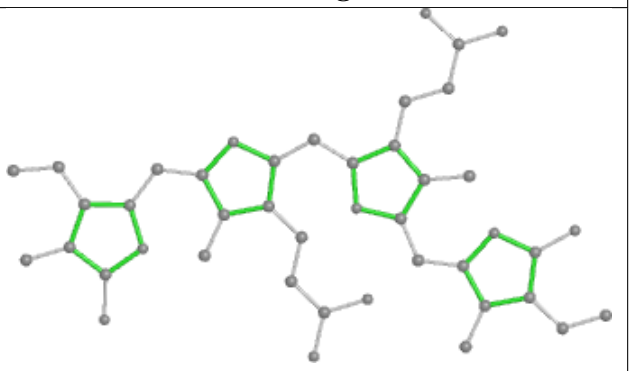
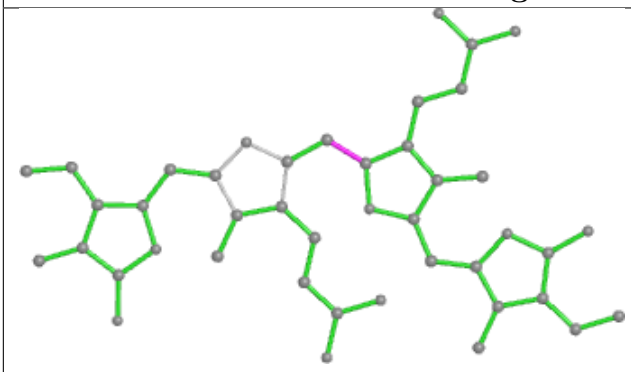


Rings

Ligand CYC PA 201



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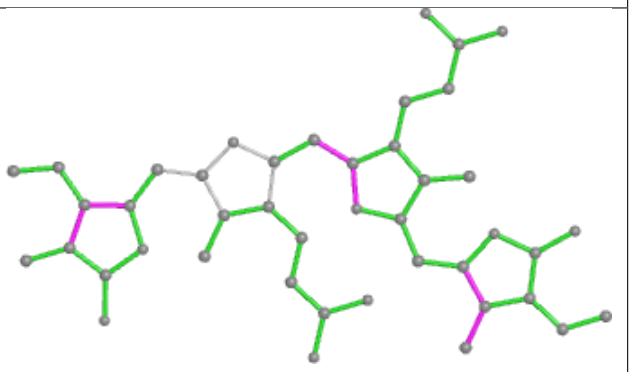
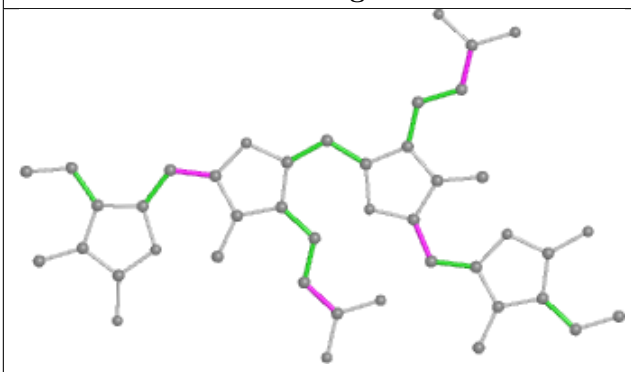
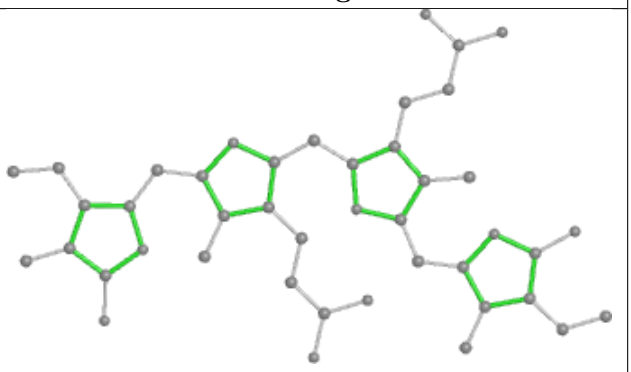


Bond angles

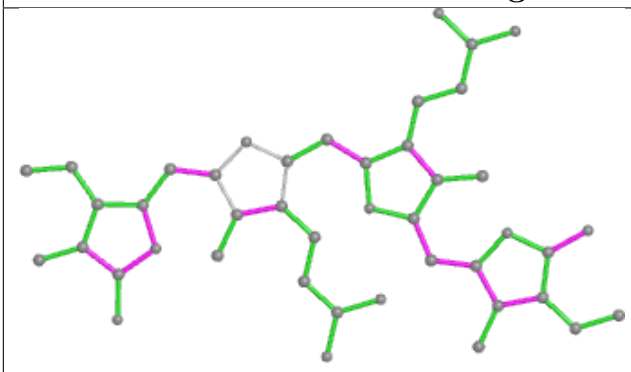


Torsions



Rings

Ligand CYC 29 1001



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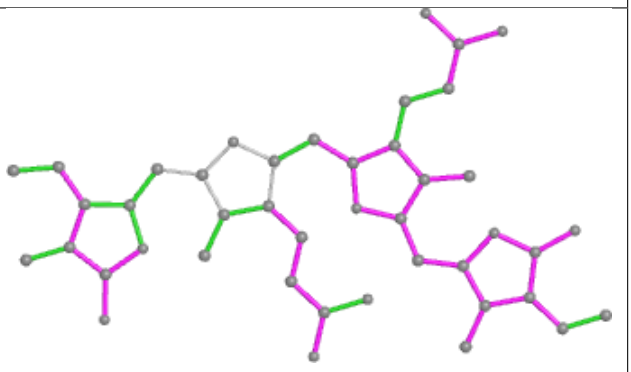
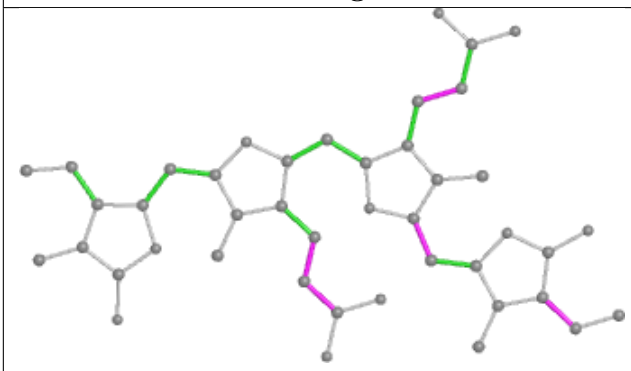
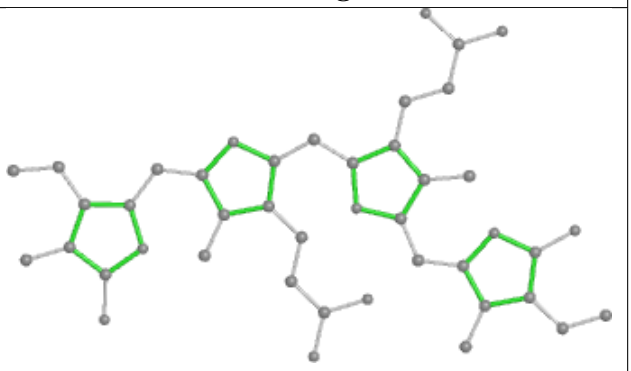


Bond angles

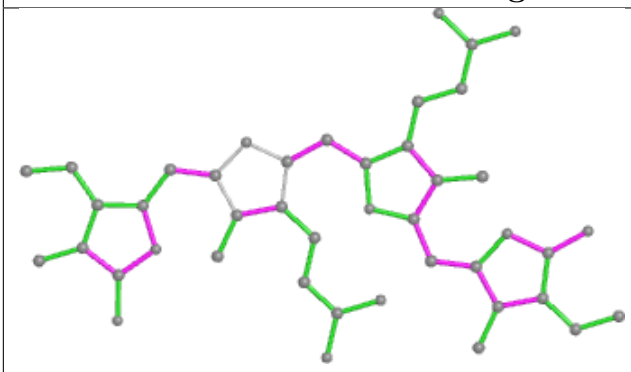


Torsions

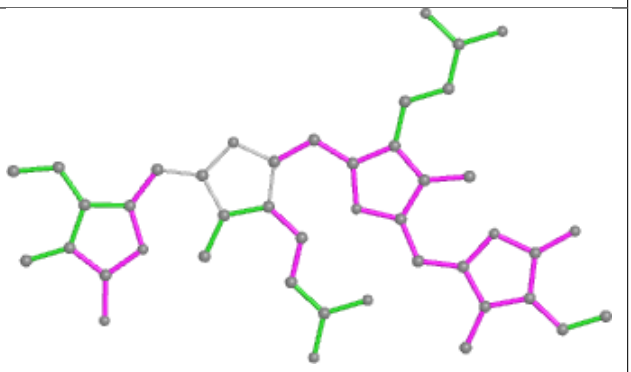


Rings

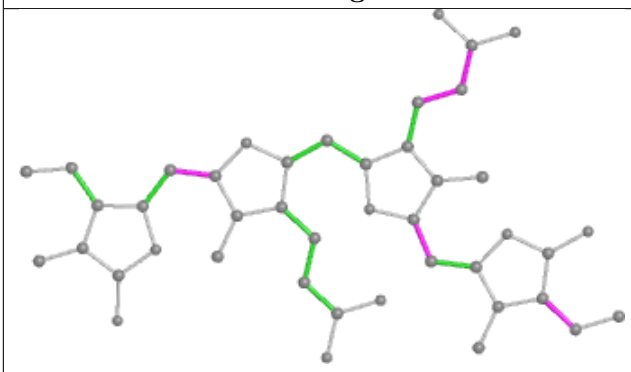
Ligand CYC AA 301



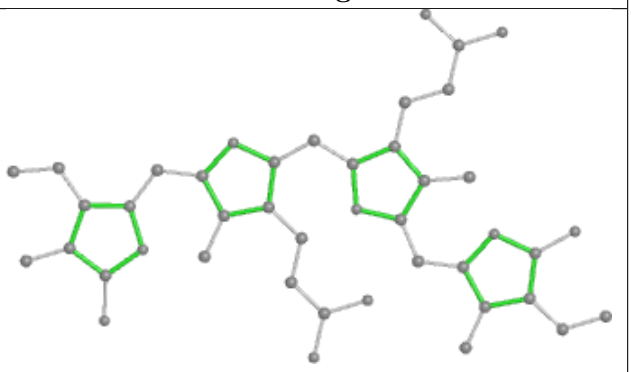
Bond lengths



Bond angles

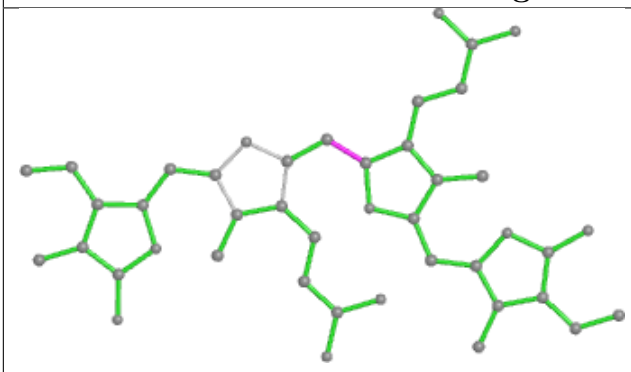


Torsions



Rings

Ligand CYC V4 201



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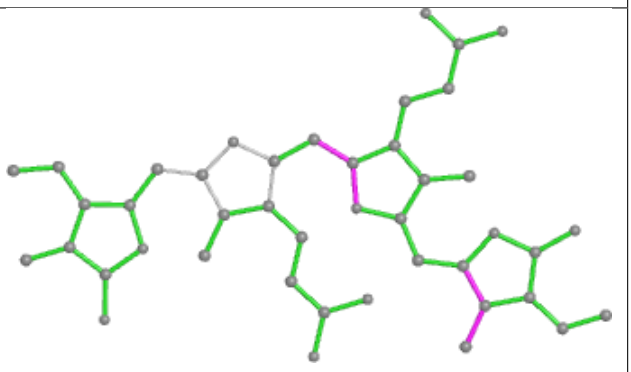

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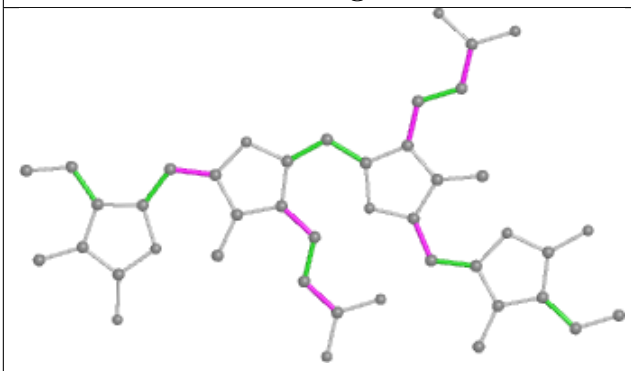

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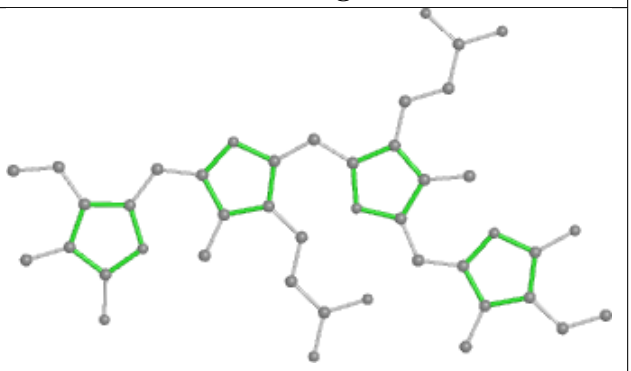
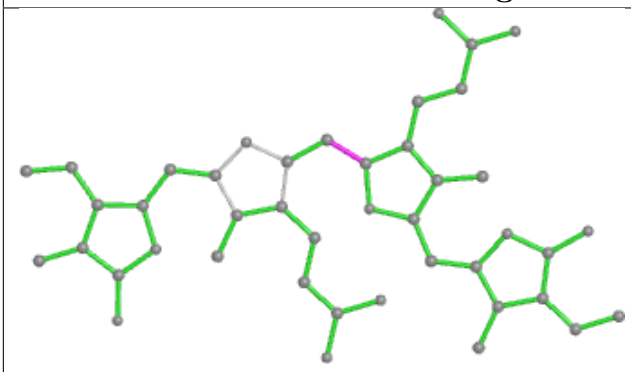


Rings

Ligand CYC MA 1002



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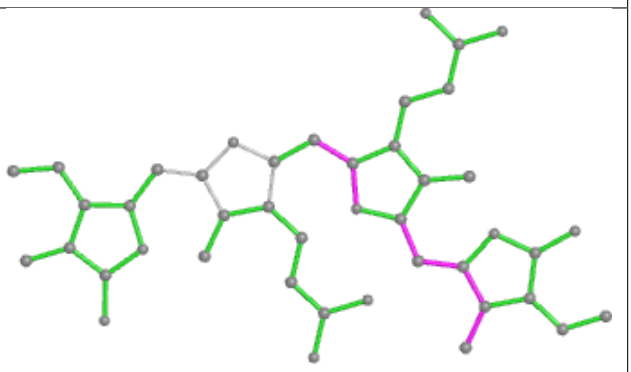
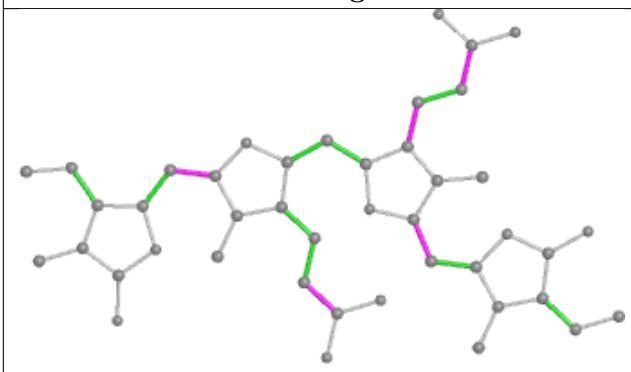


Bond angles



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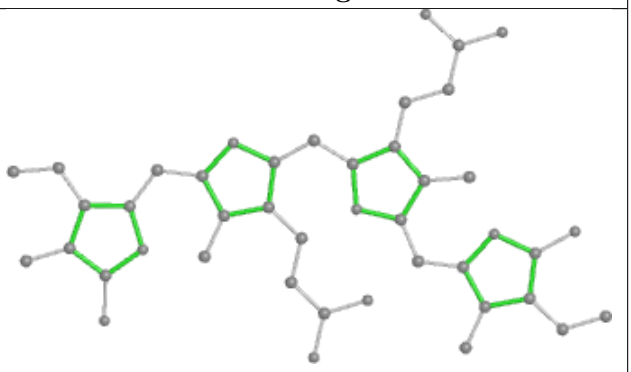
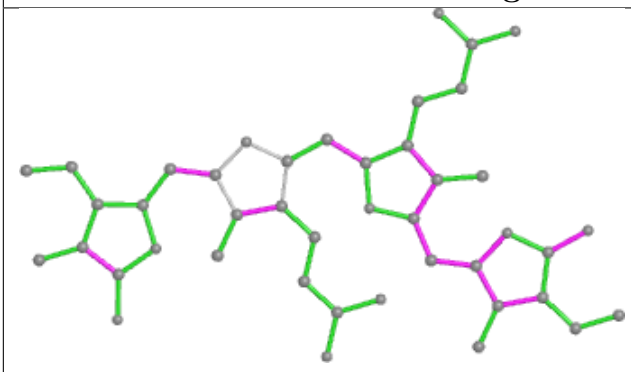


Rings

Ligand CYC H8 1001



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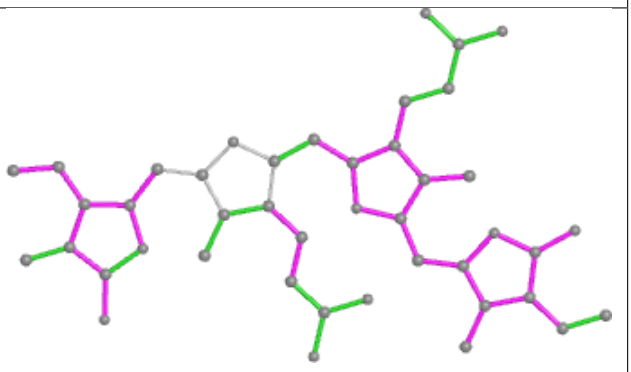
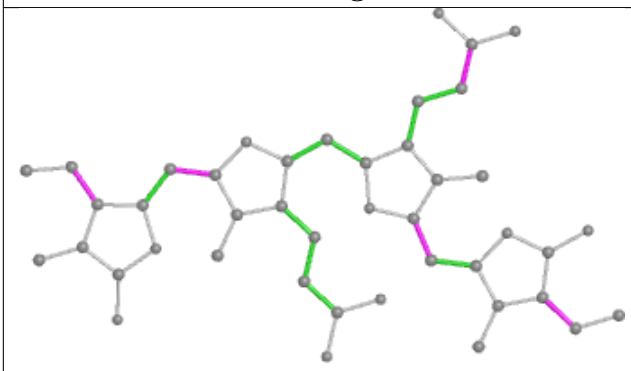


Bond angles



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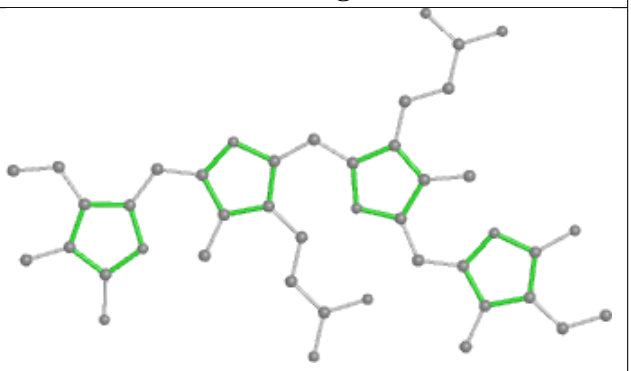
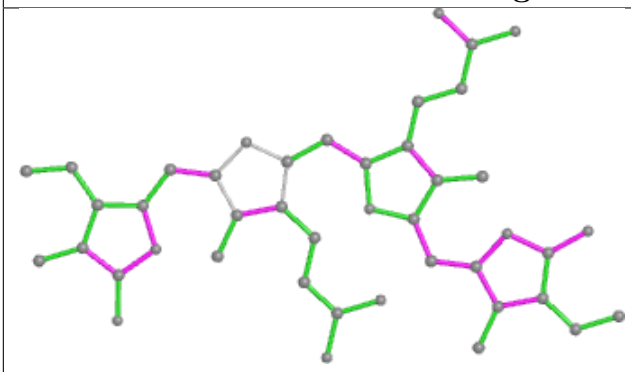


Rings

Ligand CYC C2 201



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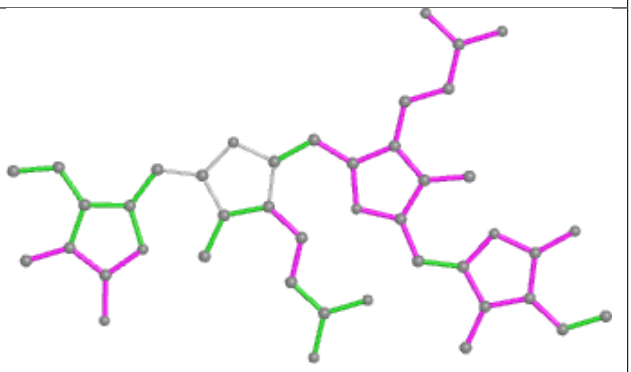
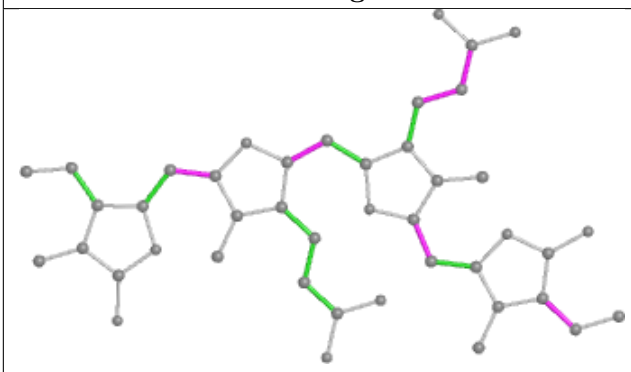


Bond angles



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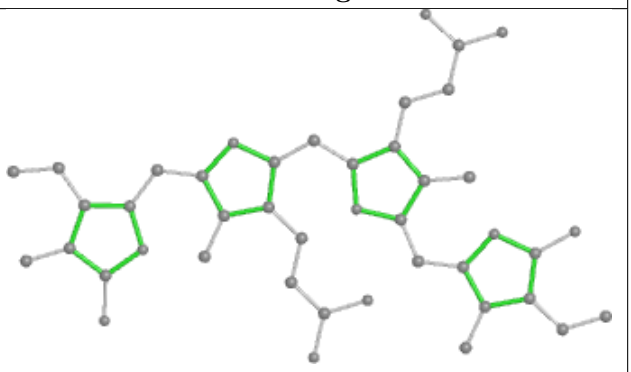
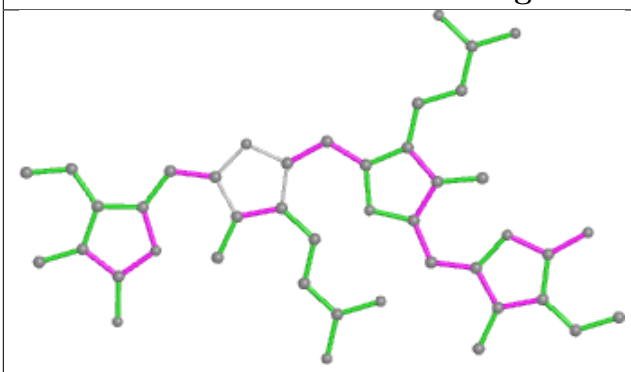


Rings

Ligand CYC E3 201



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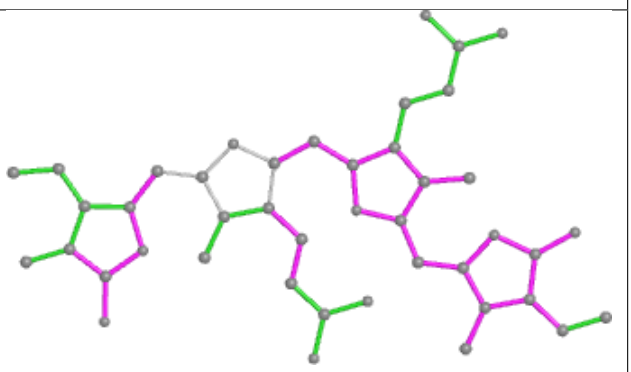
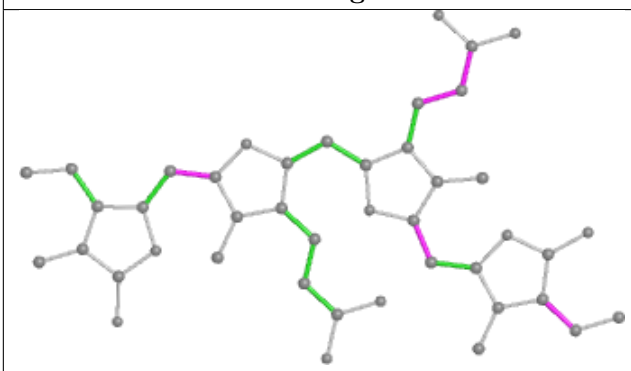


Bond angles



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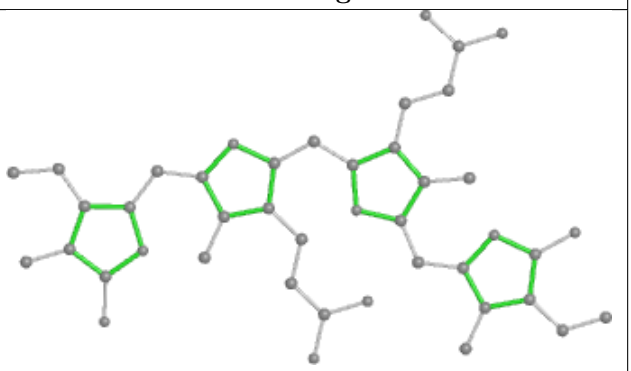
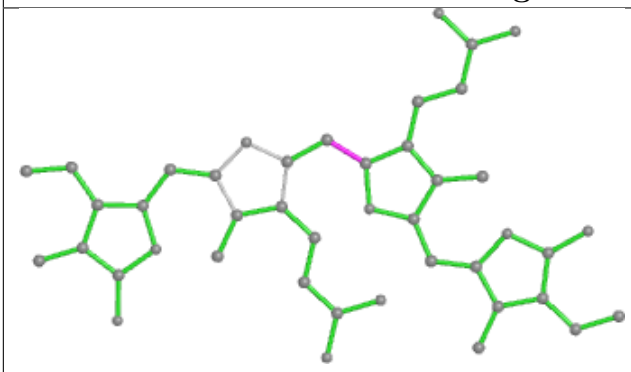


Rings

Ligand CYC C3 201



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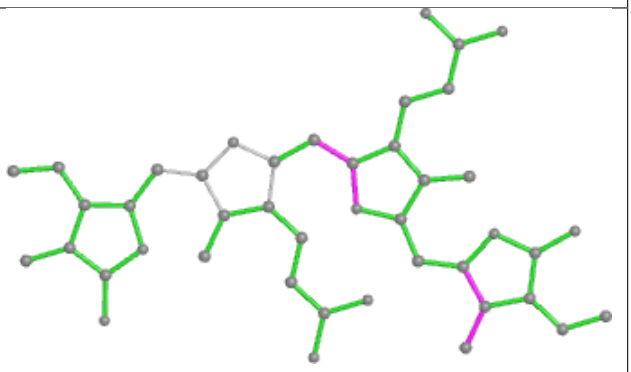
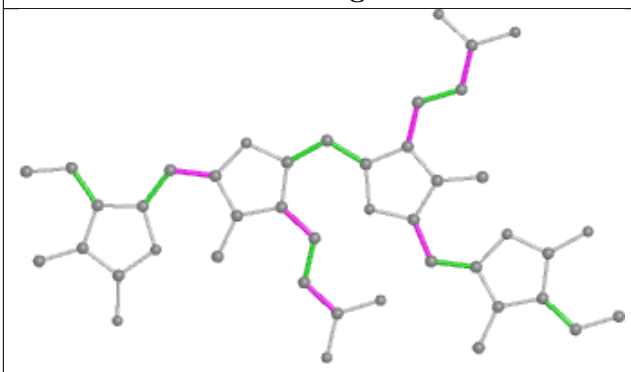


Bond angles



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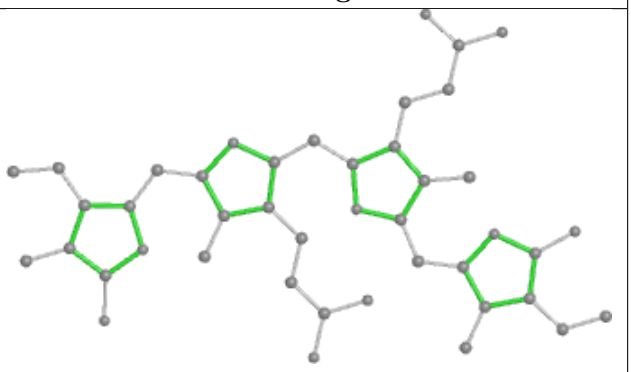
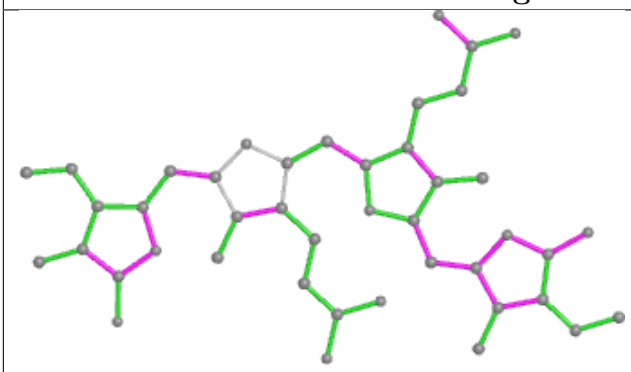


Rings

Ligand CYC C1 301



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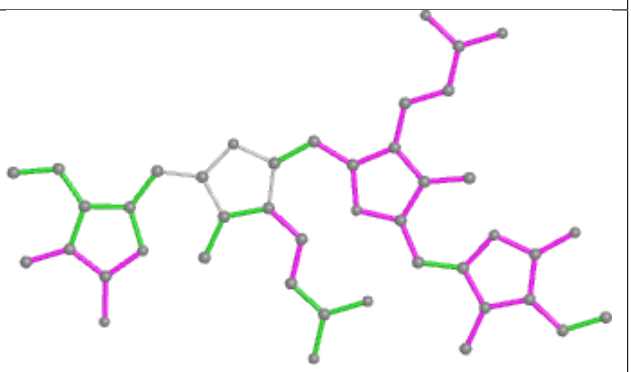
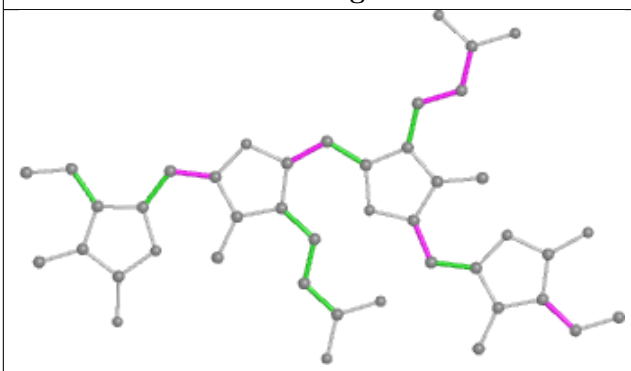


Bond angles



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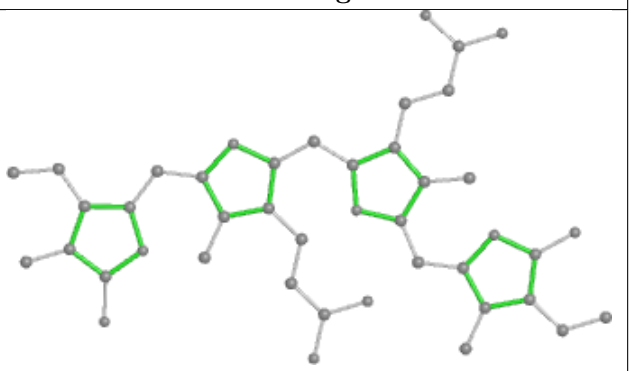
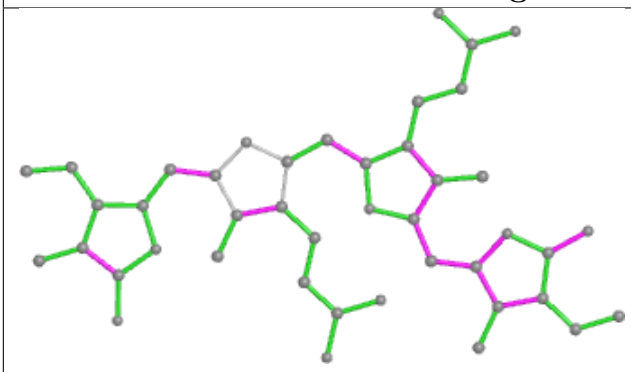
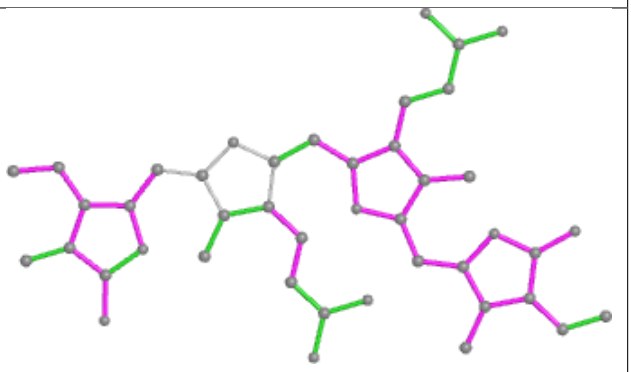


Rings

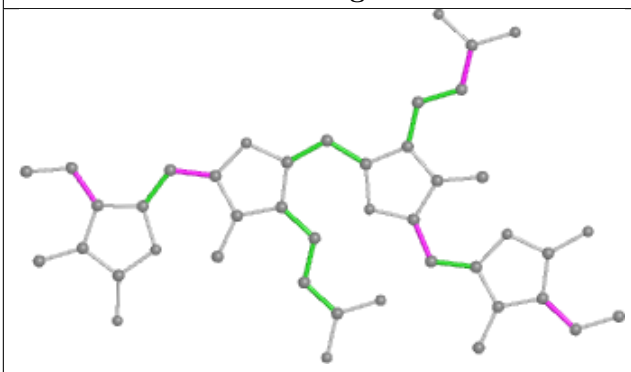
Ligand CYC r8 1001



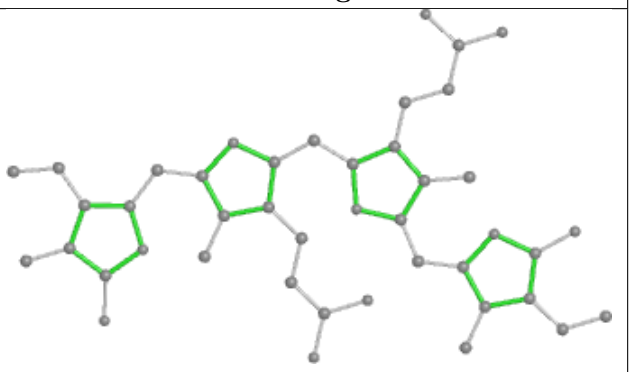
Bond lengths



Bond angles

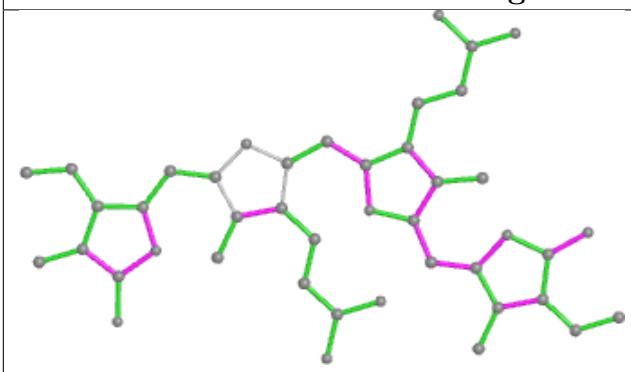


Torsions



Rings

Ligand CYC 09 1202



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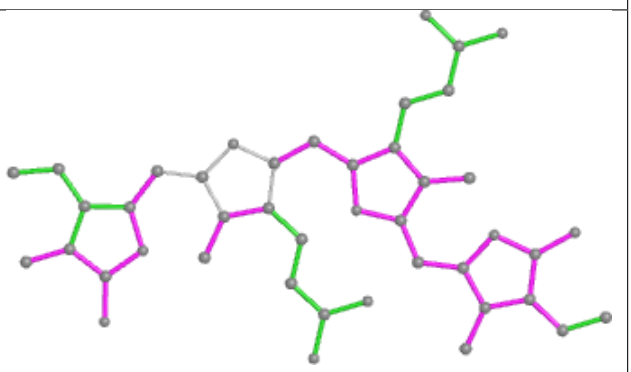

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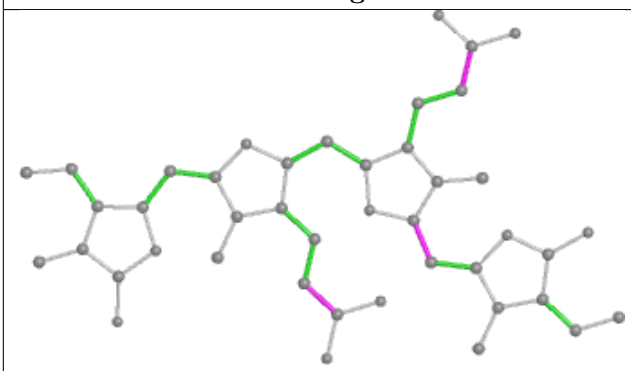
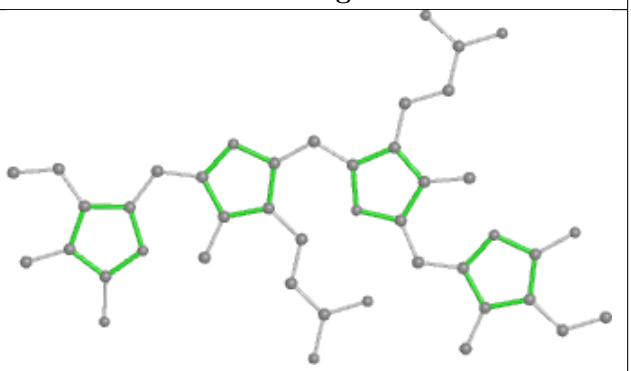
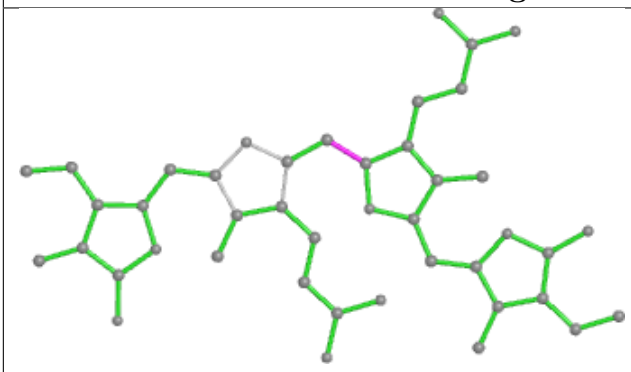


Torsions



Rings

Ligand CYC M1 201



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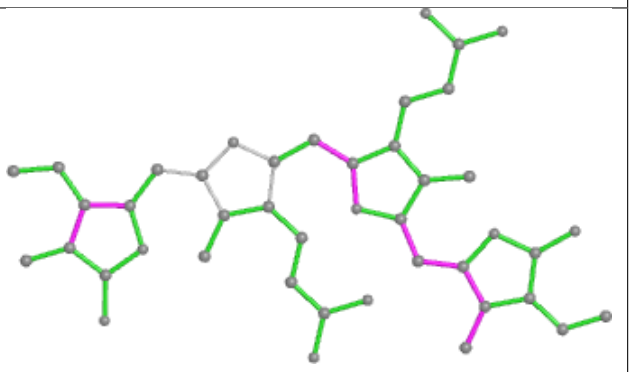
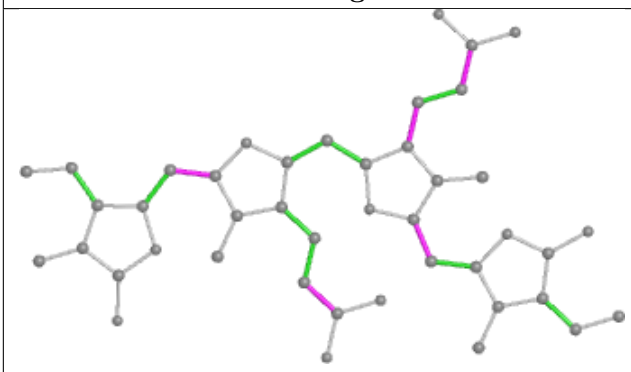
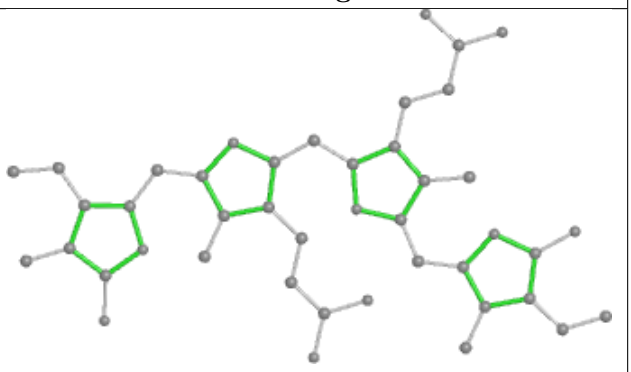


Bond angles

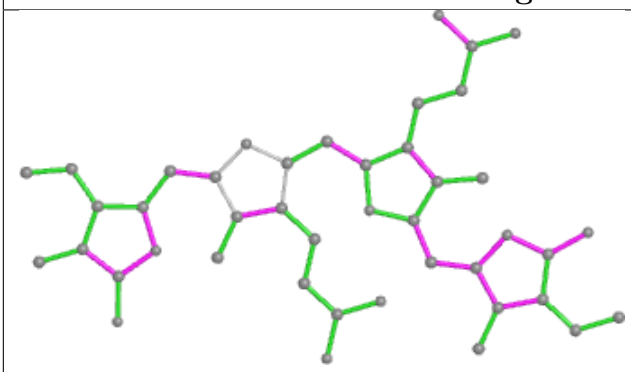


Torsions



Rings

Ligand CYC L4 201



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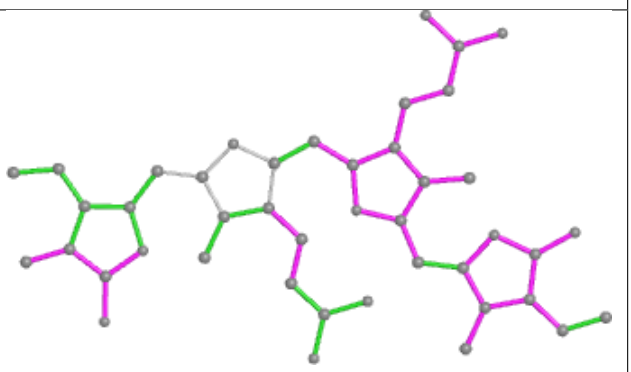
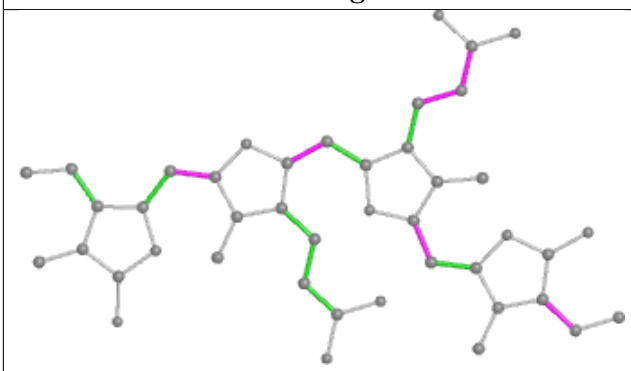


Bond angles



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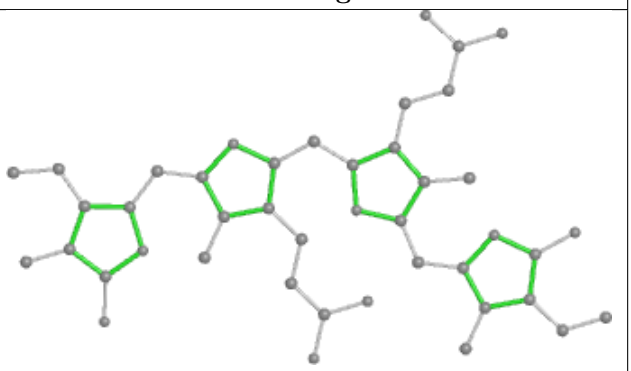
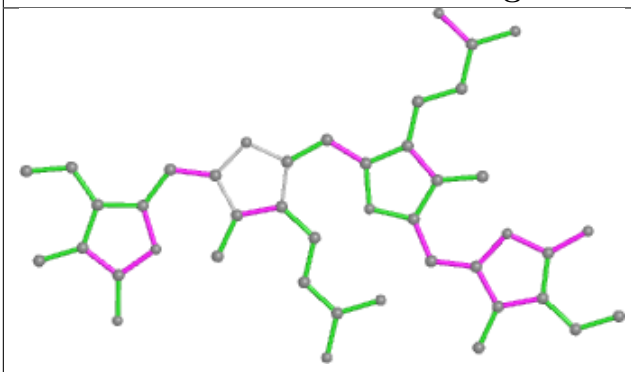


Rings

Ligand CYC O6 1001



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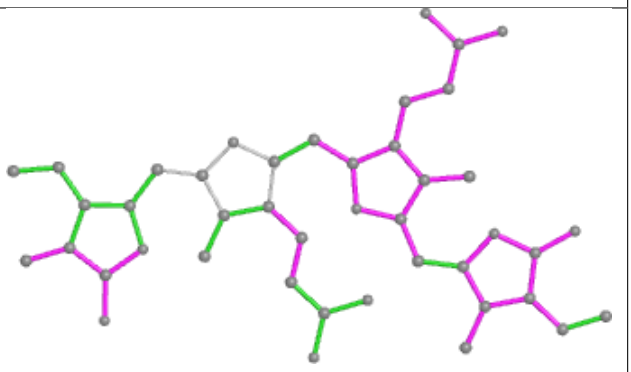
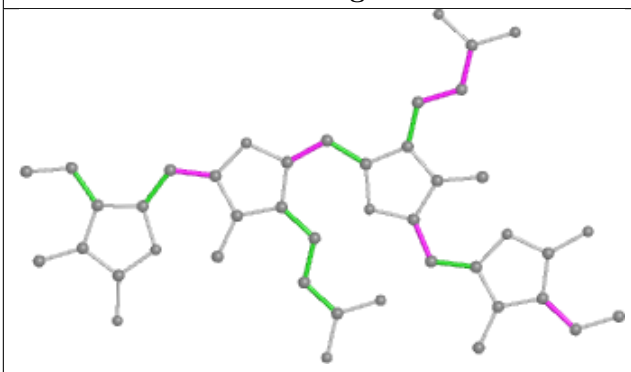


Bond angles



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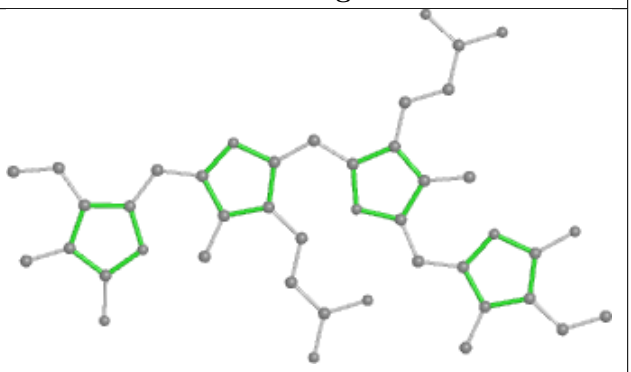
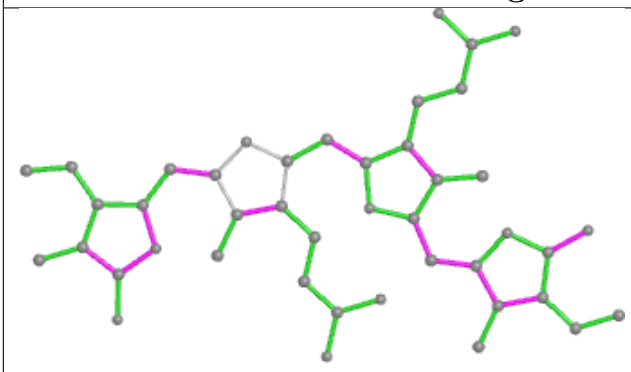
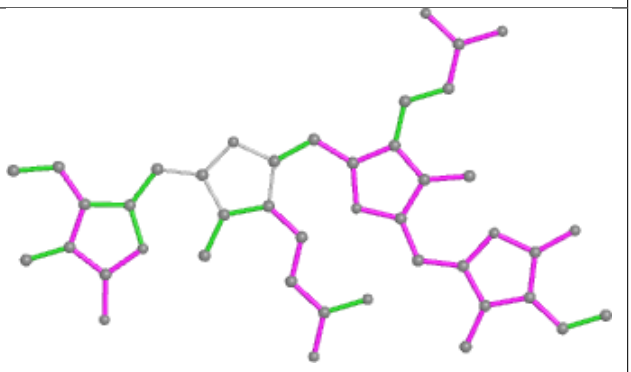


Rings

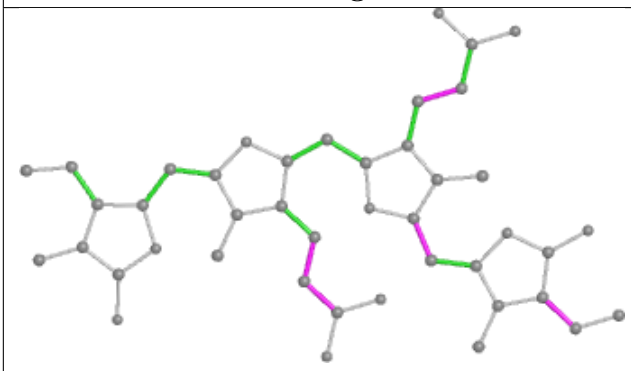
Ligand CYC x9 1001



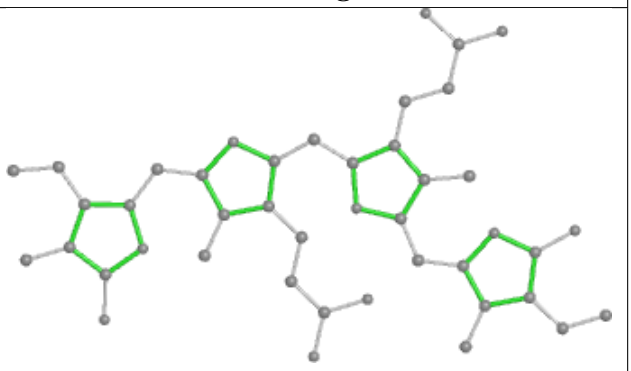
Bond lengths



Bond angles

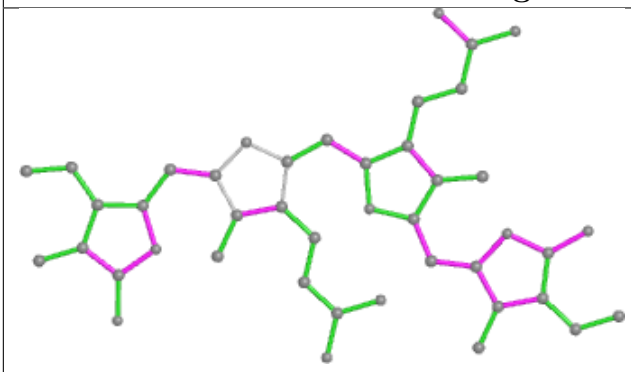


Torsions

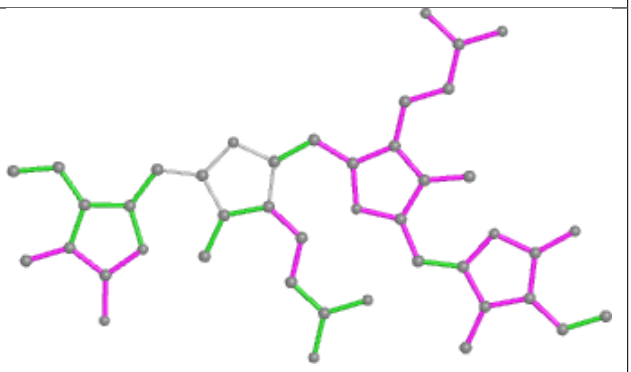


Rings

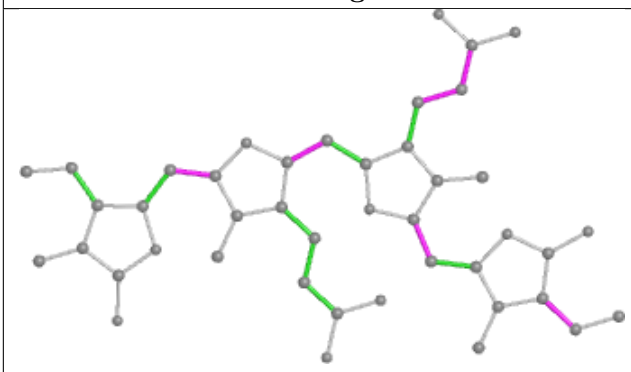
Ligand CYC C6 201



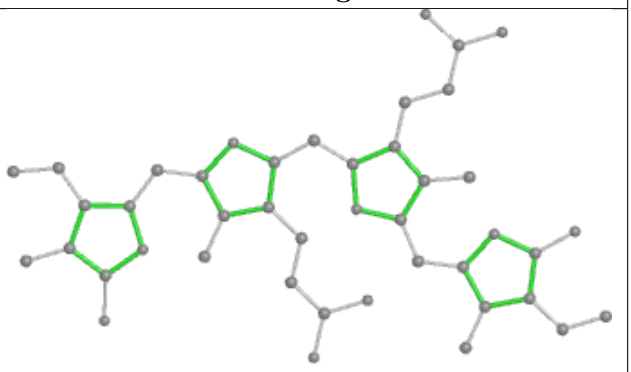
Bond lengths



Bond angles

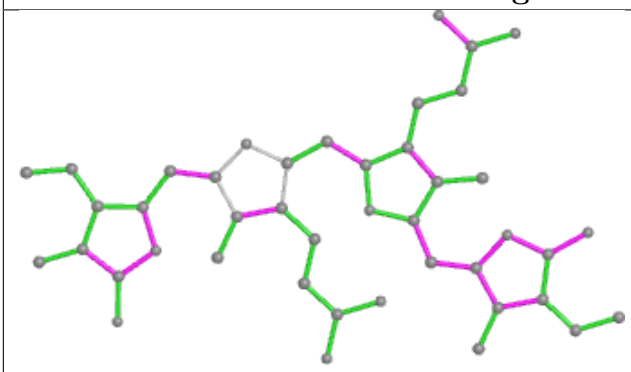


Torsions



Rings

Ligand CYC G4 202



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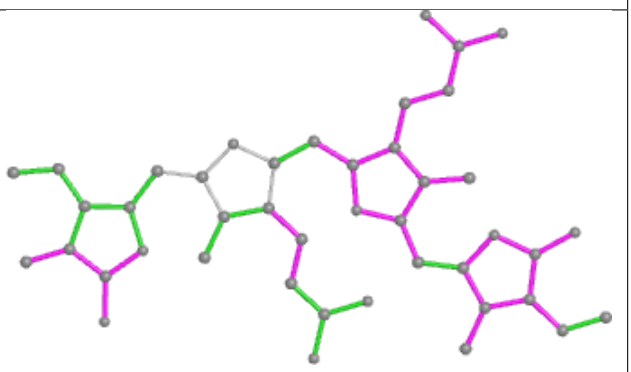

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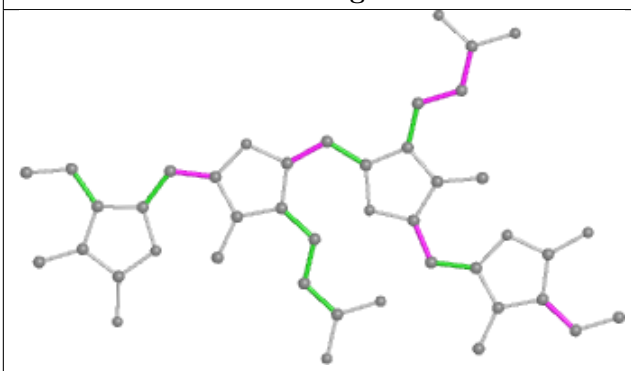

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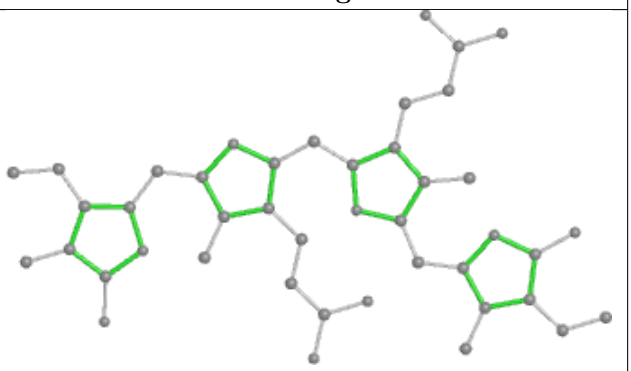
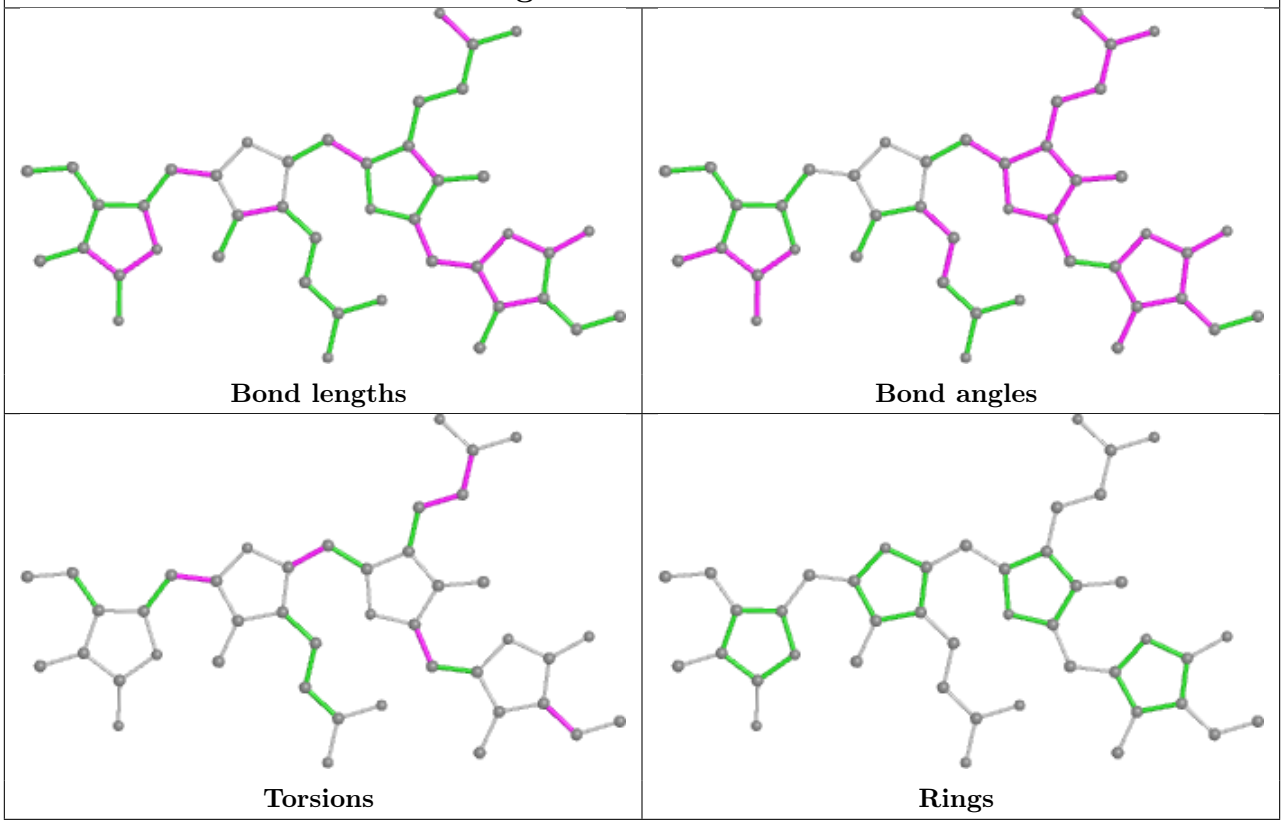
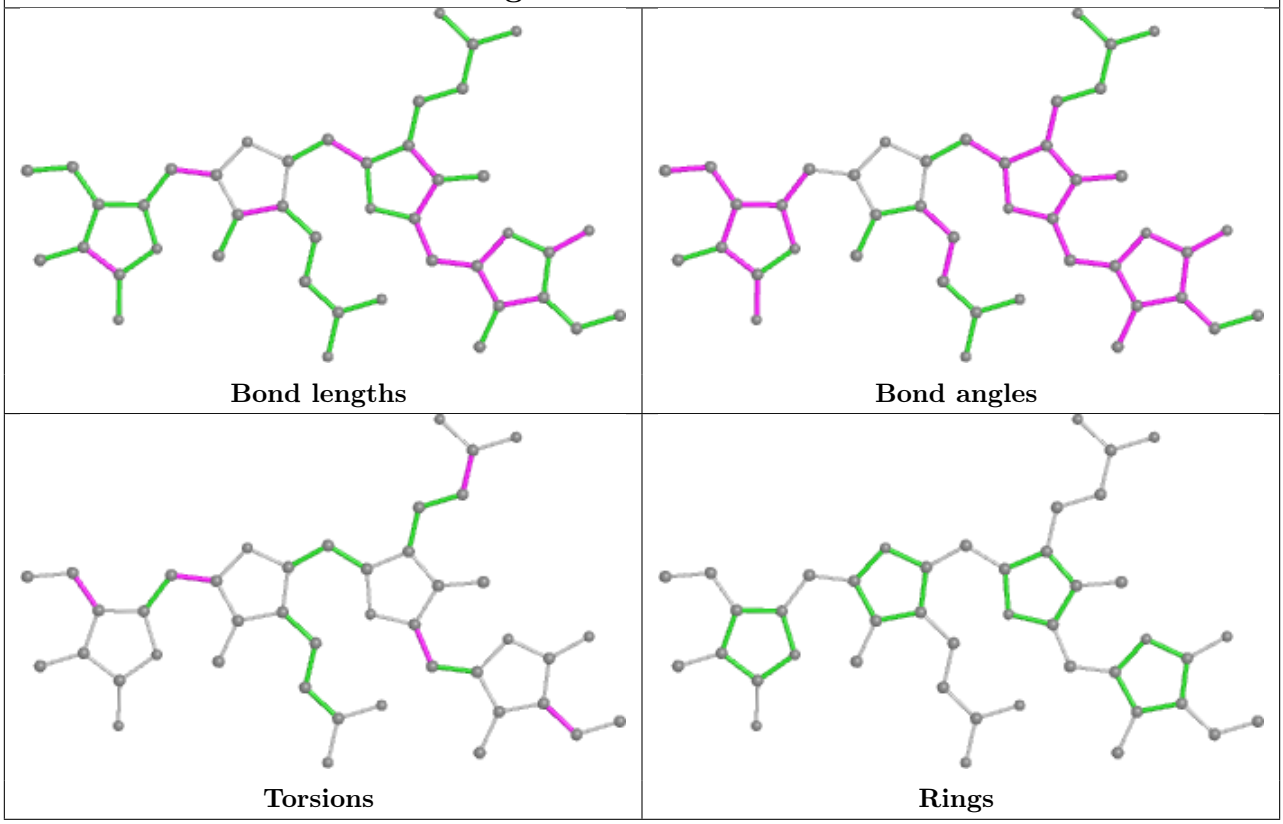


Rings

Ligand CYC Z2 202



Ligand CYC C8 1001



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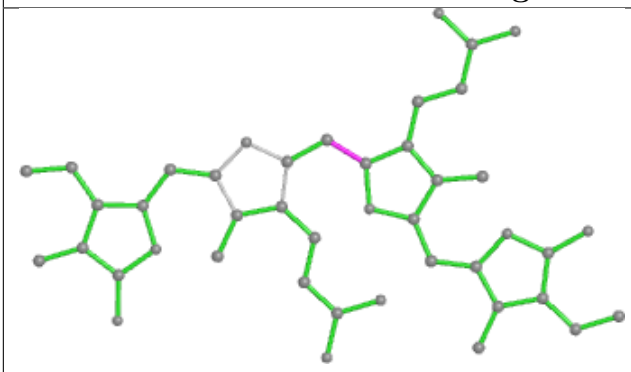

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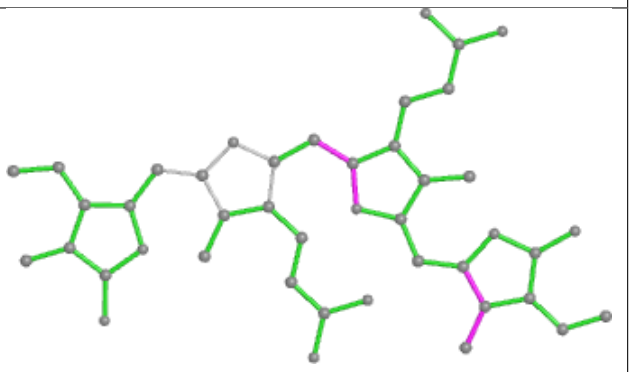

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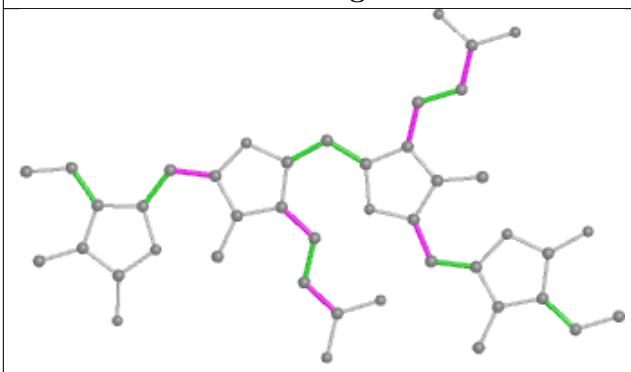

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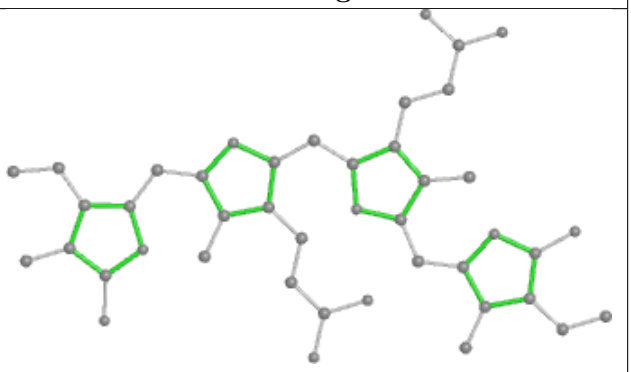
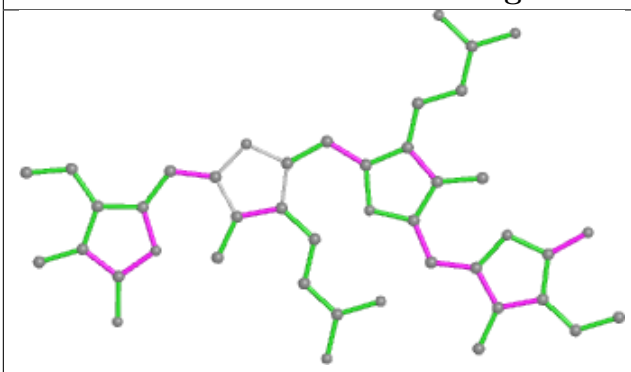


Rings

Ligand CYC B9 1001



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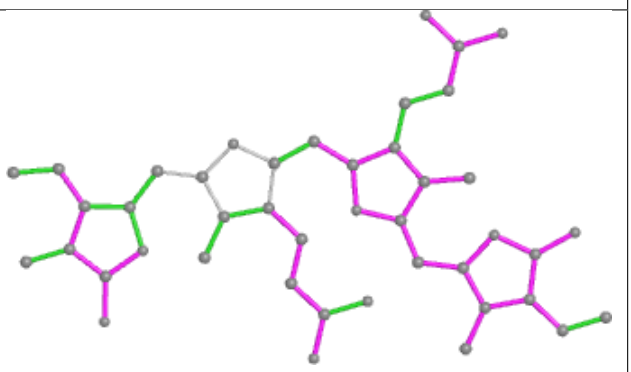

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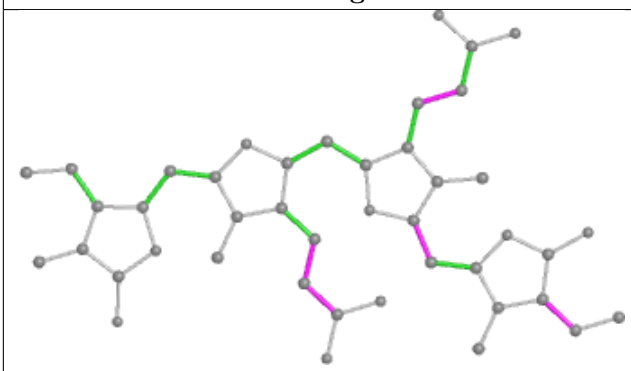

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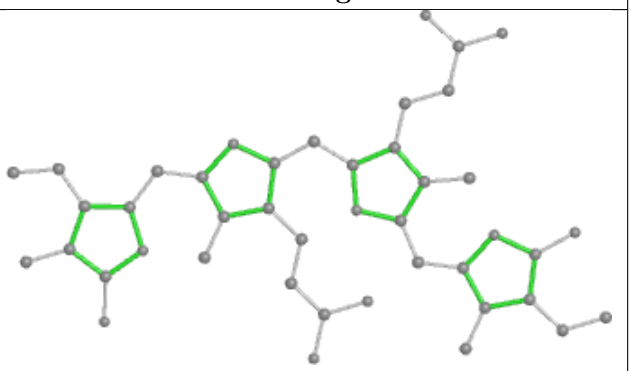
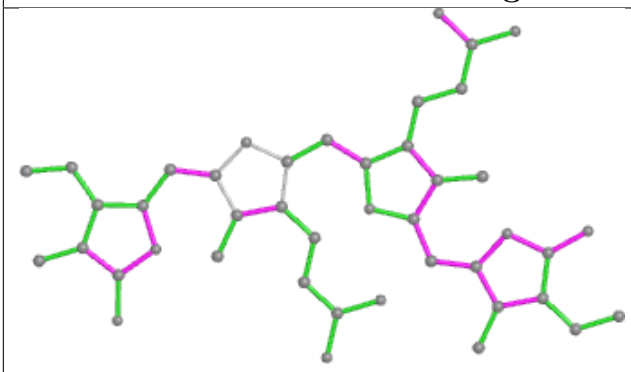


Rings

Ligand CYC H1 1001



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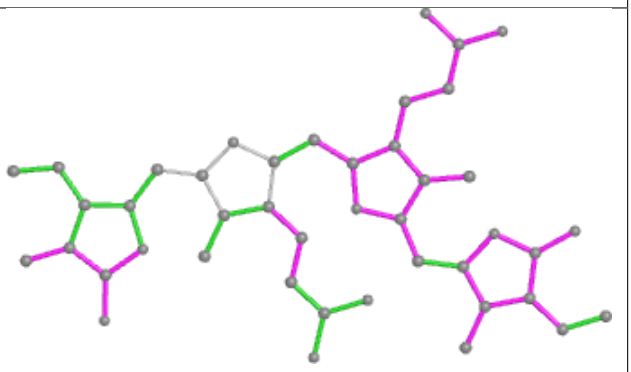

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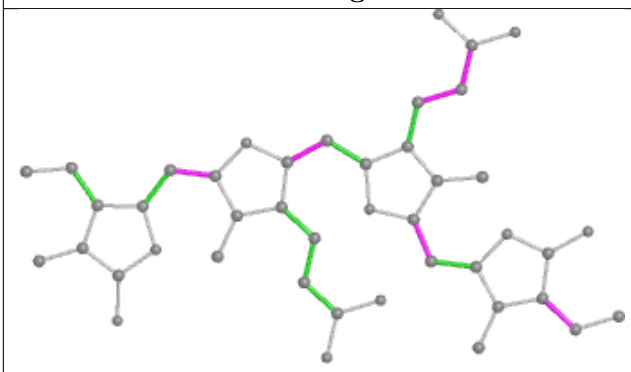

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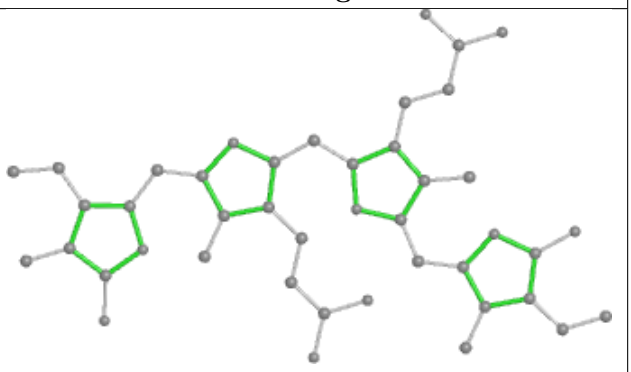
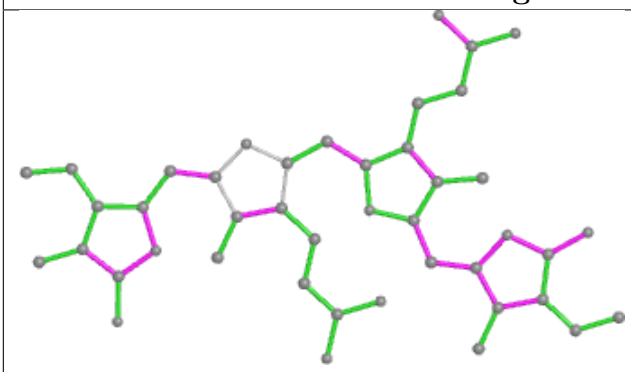


Rings

Ligand CYC V6 202



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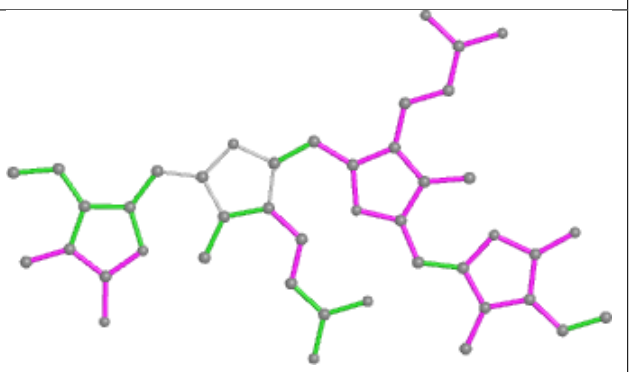

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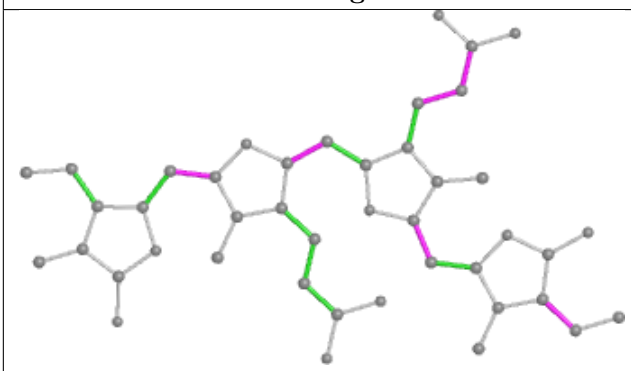

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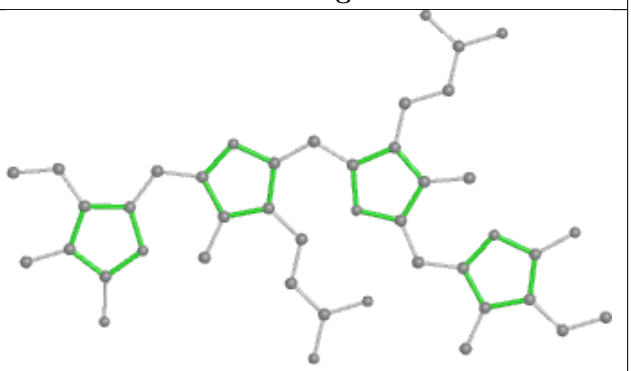
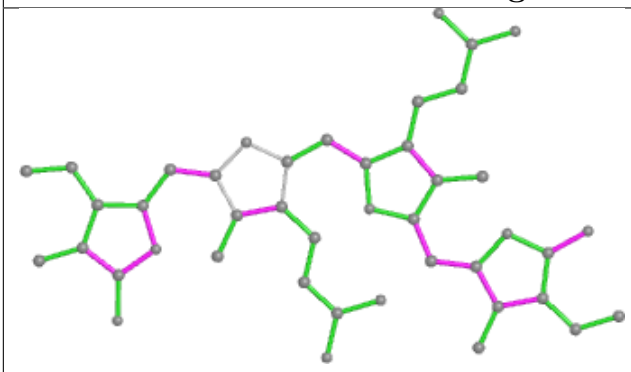


Rings

Ligand CYC 09 1203



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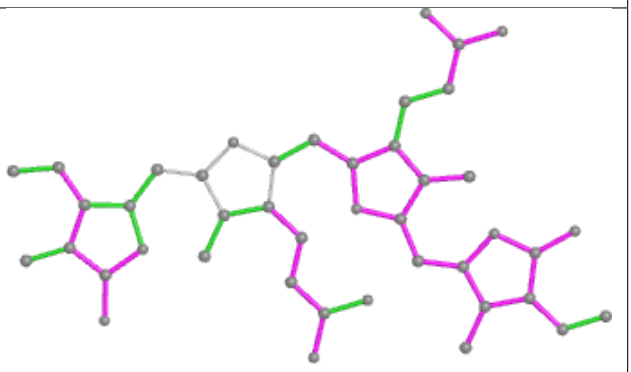

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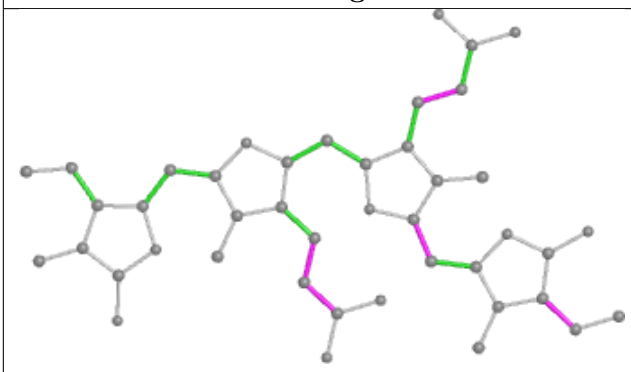

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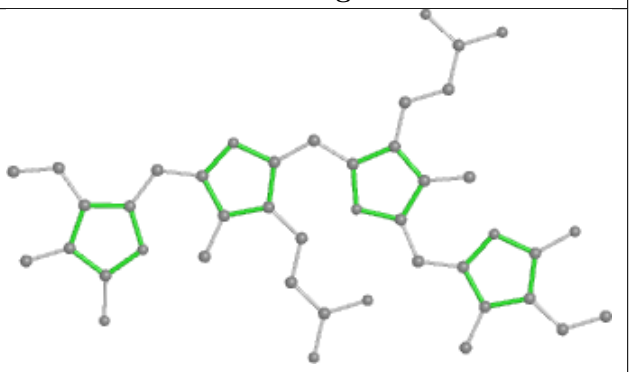
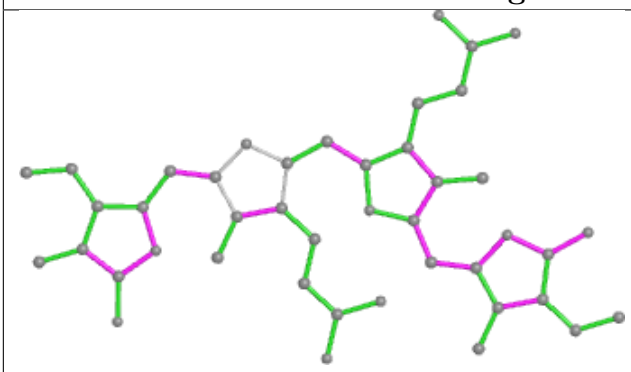


Rings

Ligand CYC g9 1001



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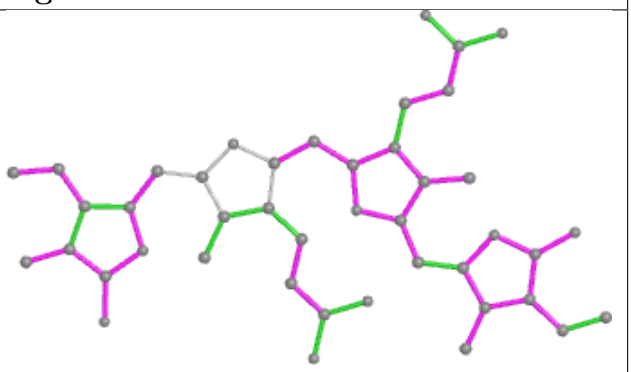
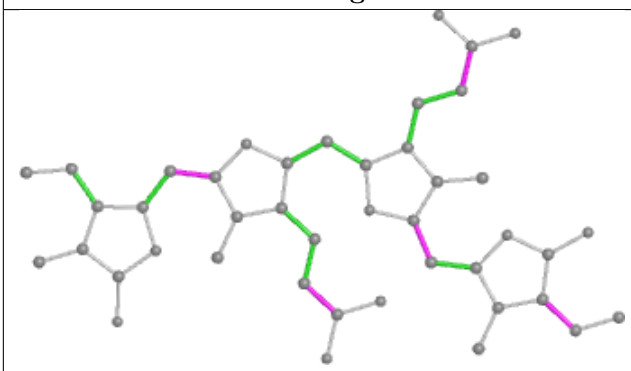


Bond angles



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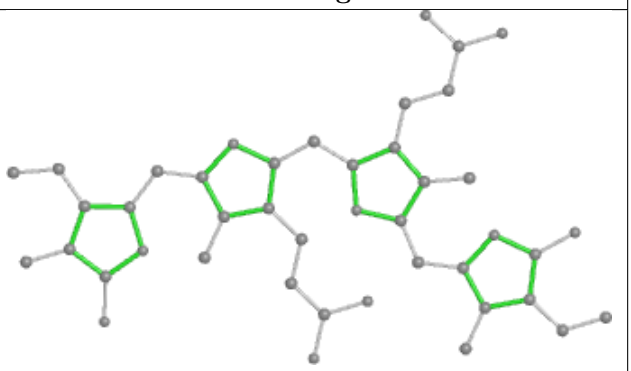
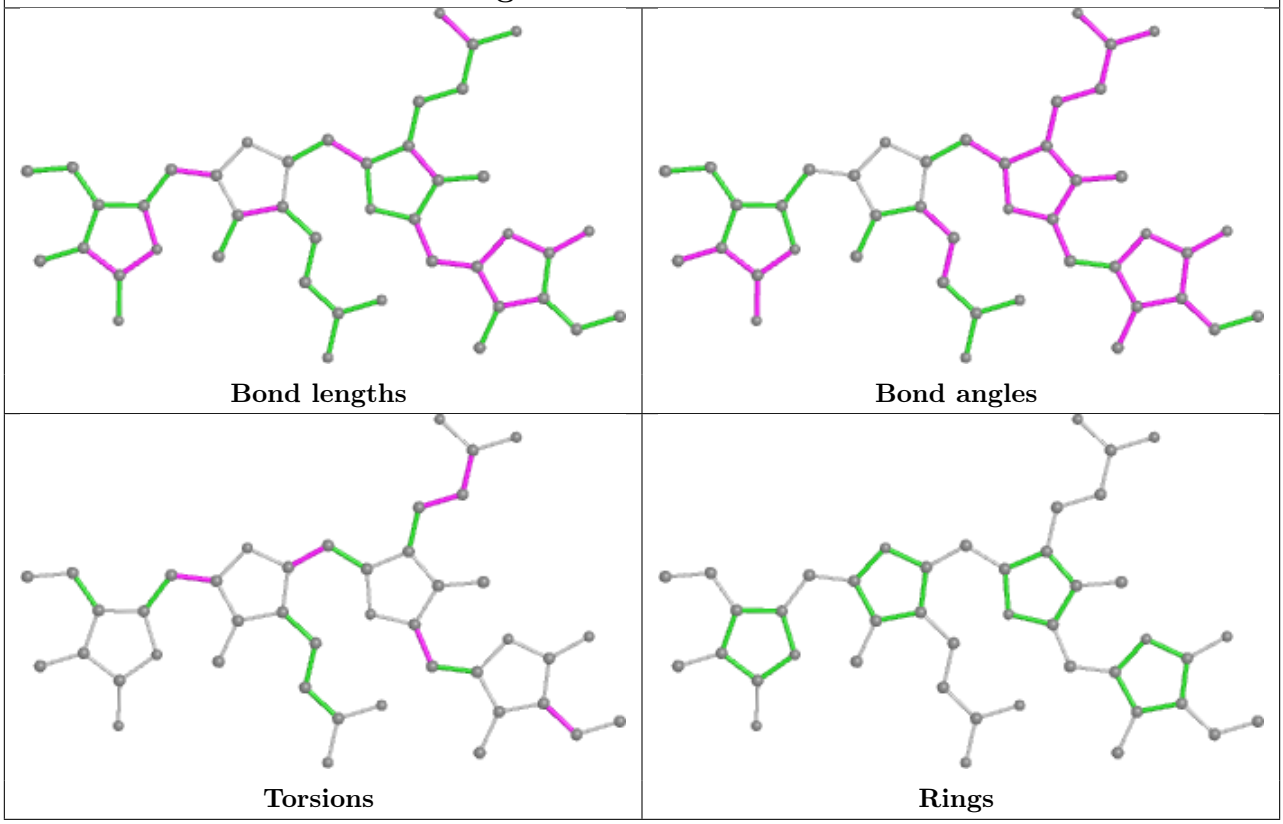
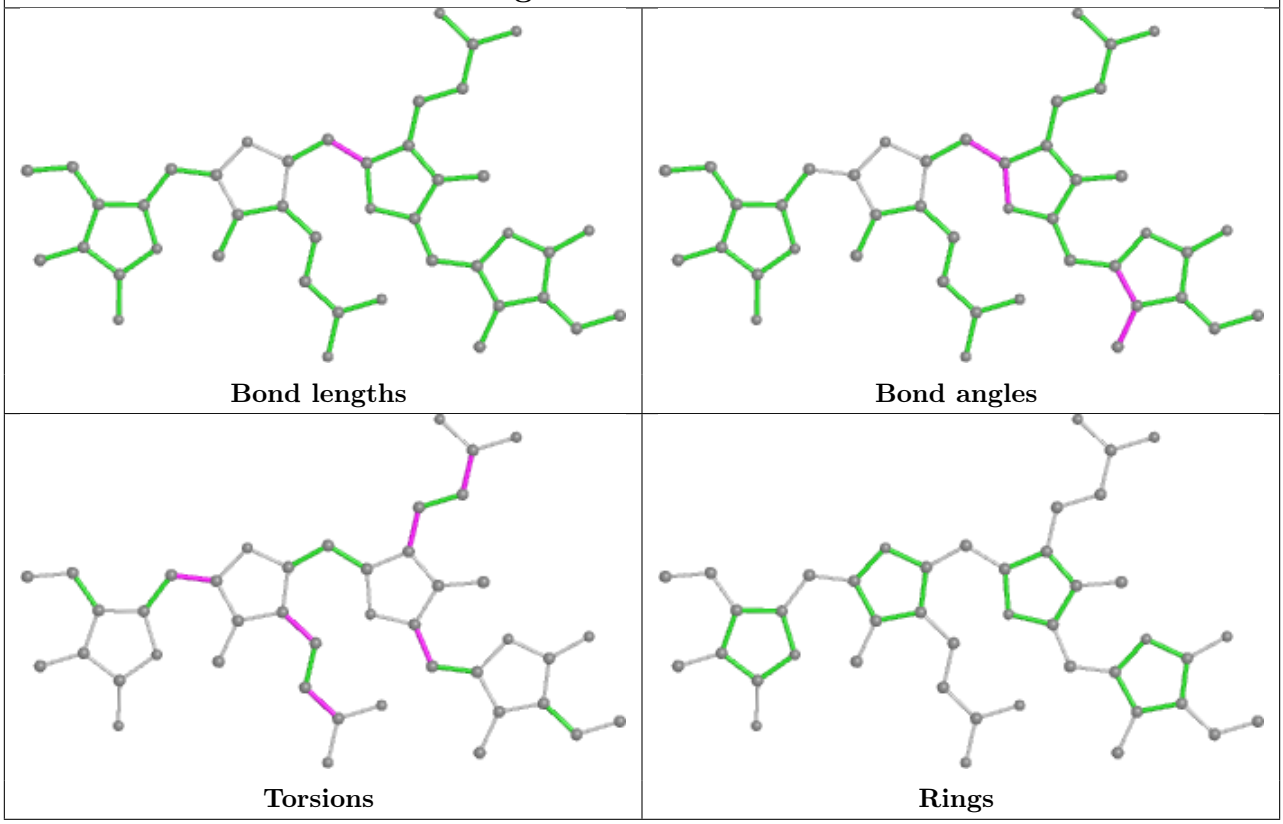


Rings

Ligand CYC MA 1001



Ligand CYC T5 202



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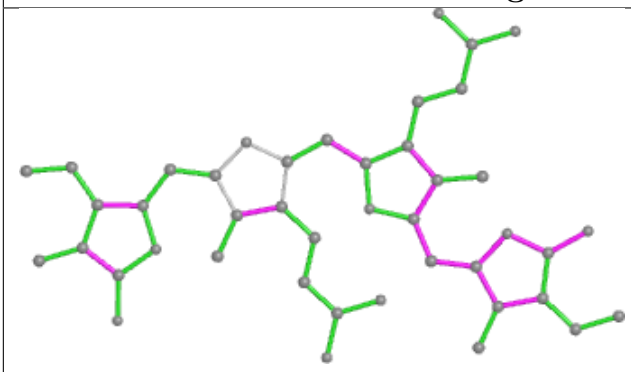

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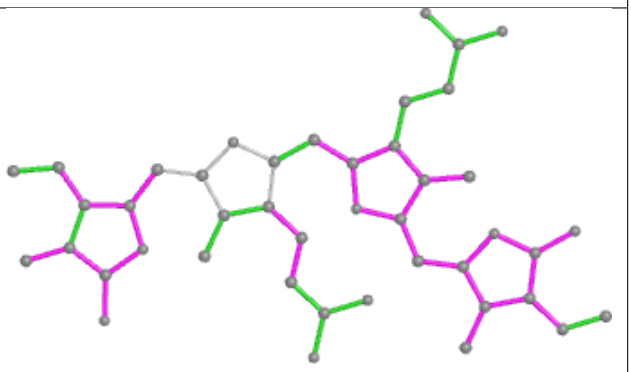

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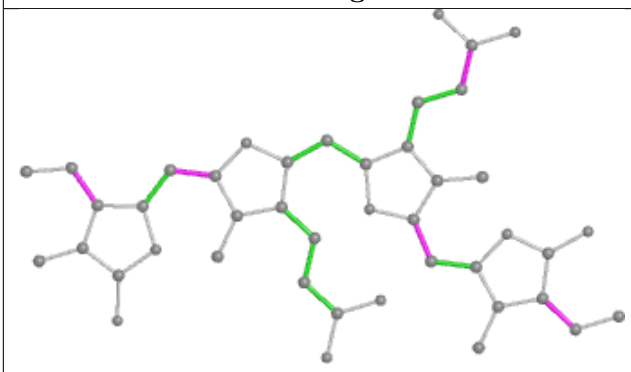

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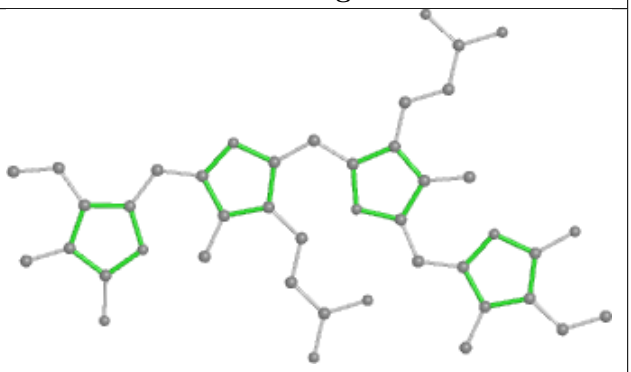
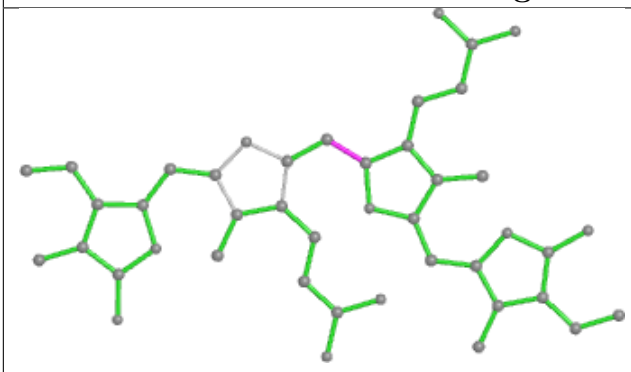


Rings

Ligand CYC T6 201



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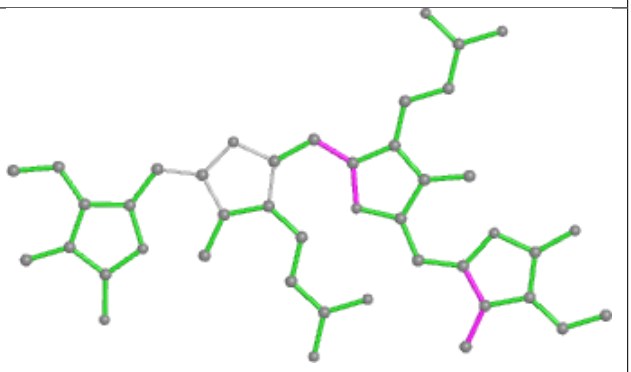

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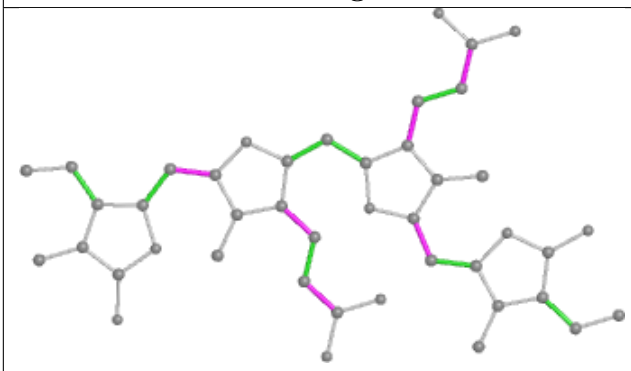

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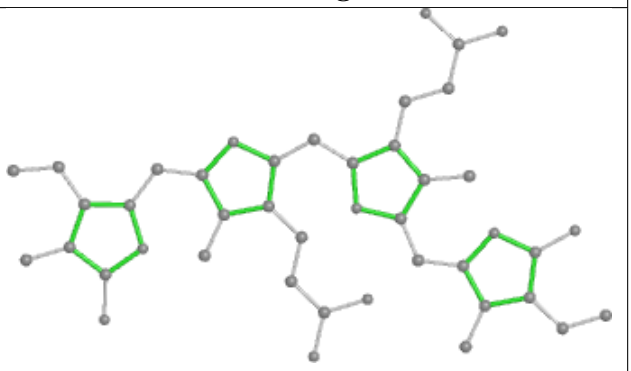
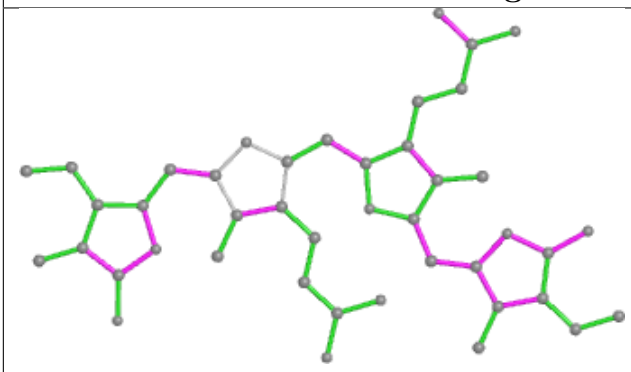


Rings

Ligand CYC B3 1001



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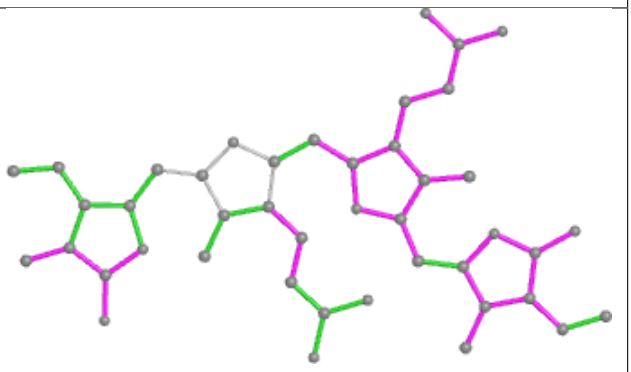
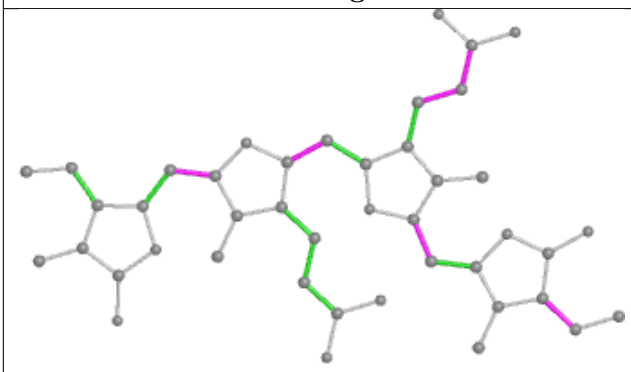


Bond angles



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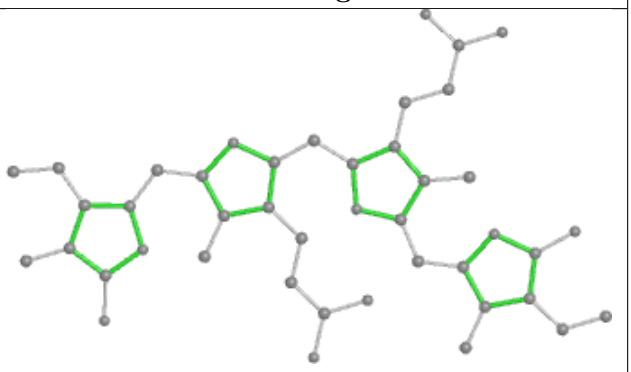
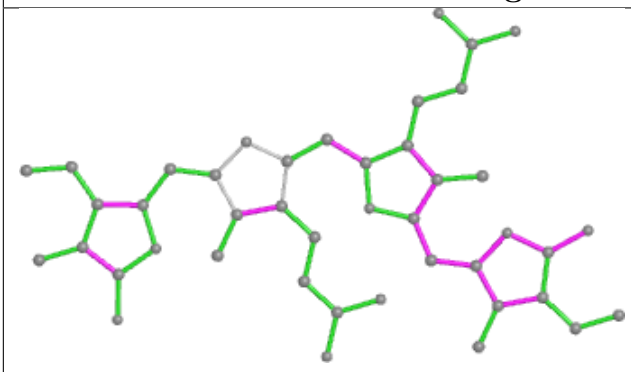


Rings

Ligand CYC T9 1001



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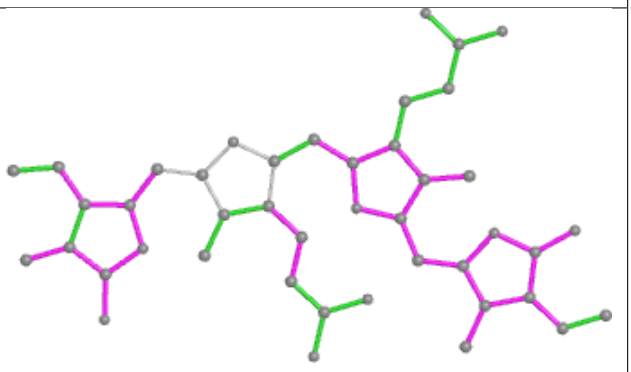
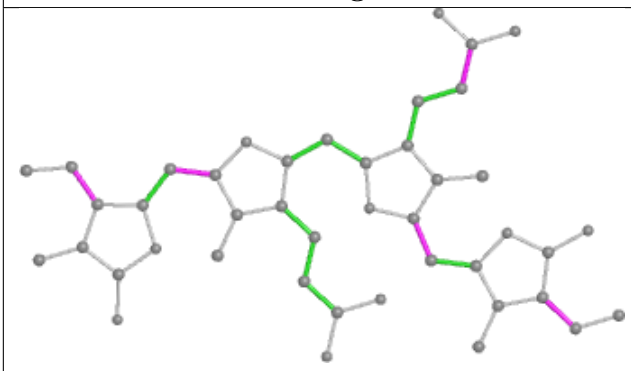


Bond angles



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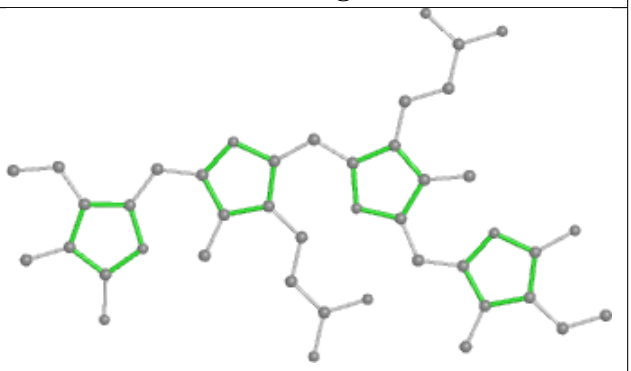
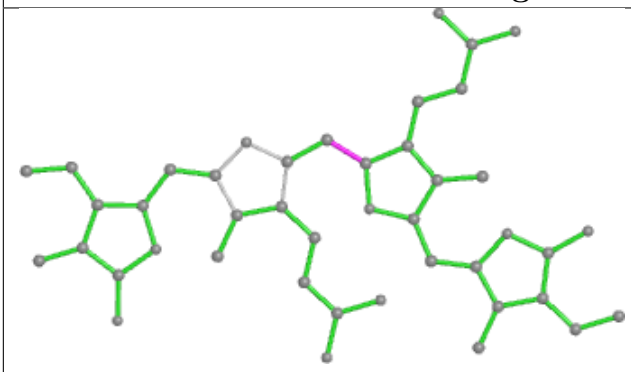


Rings

Ligand CYC K4 201



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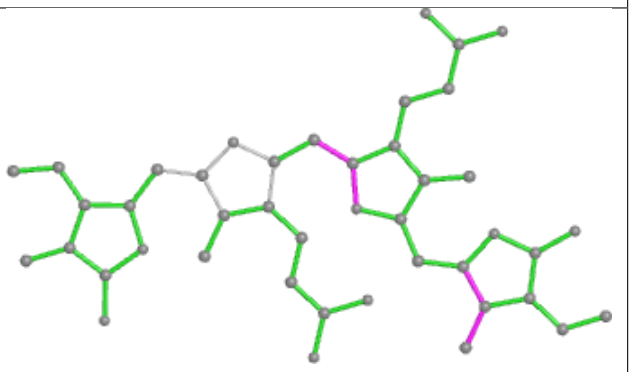
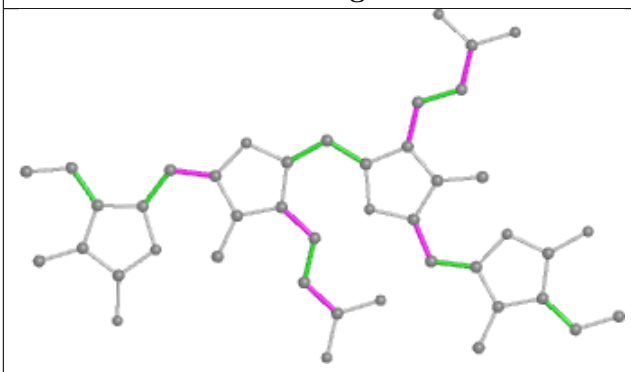


Bond angles



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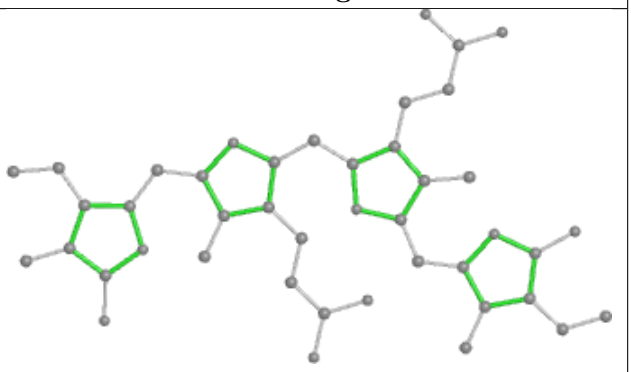
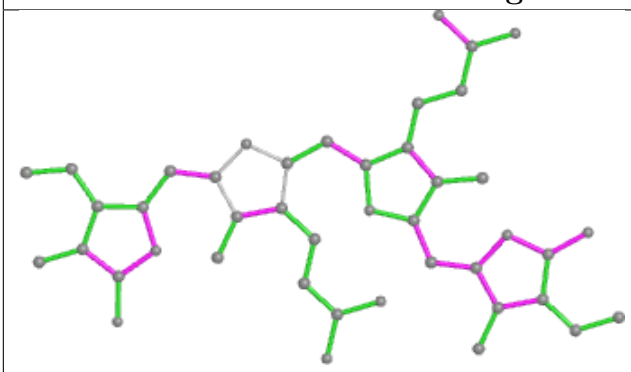


Rings

Ligand CYC F3 1001



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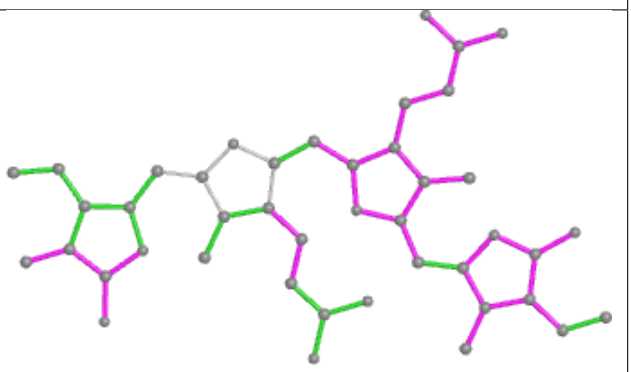

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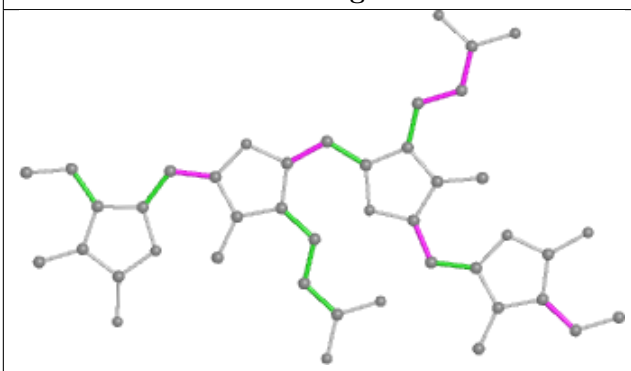
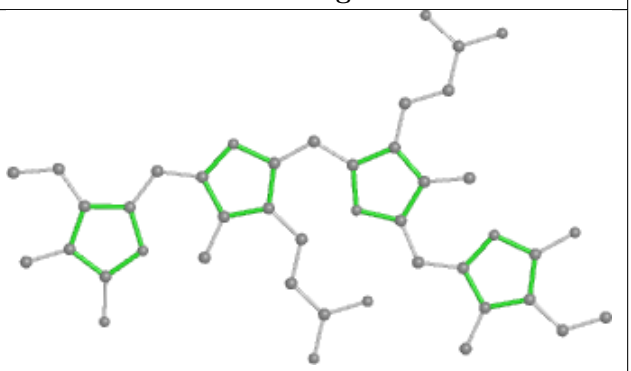
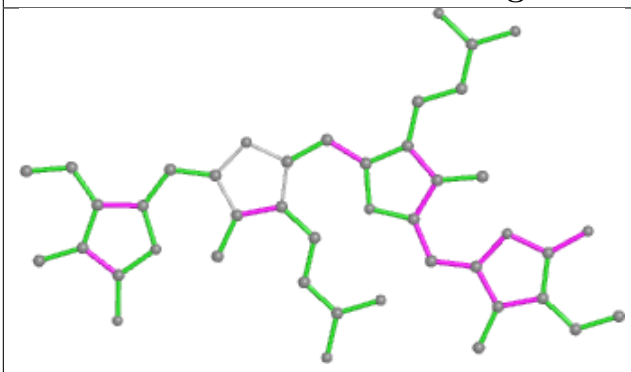


Torsions



Rings

Ligand CYC b9 1001



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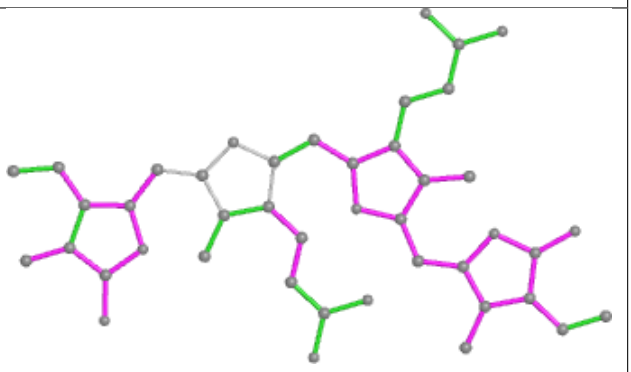
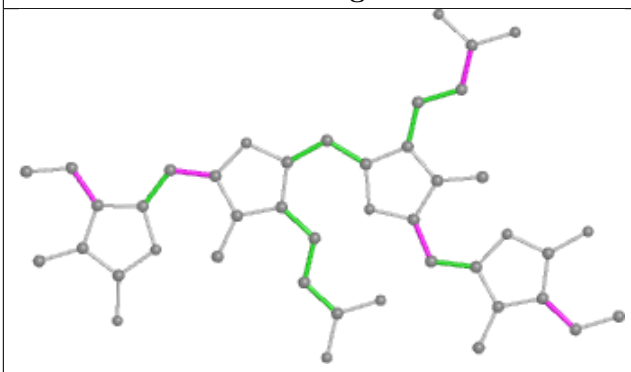


Bond angles



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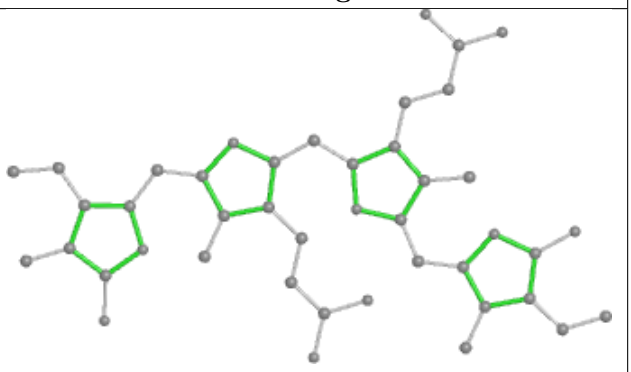
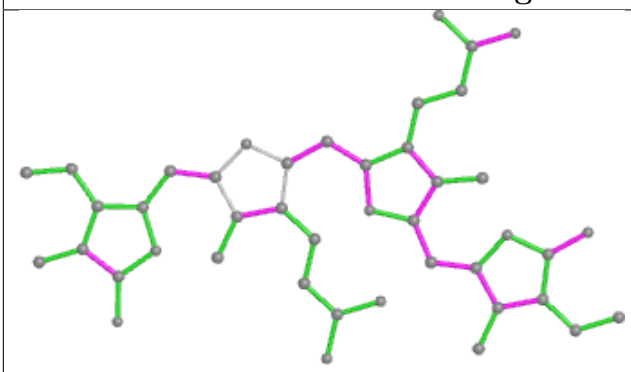


Rings

Ligand CYC IA 201



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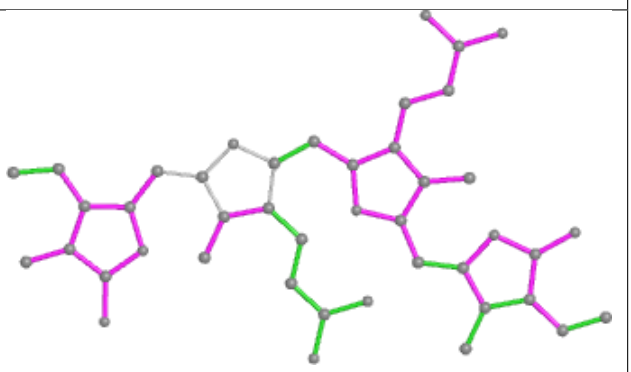
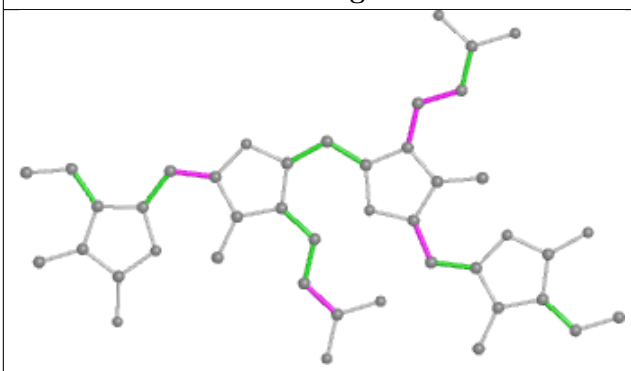


Bond angles



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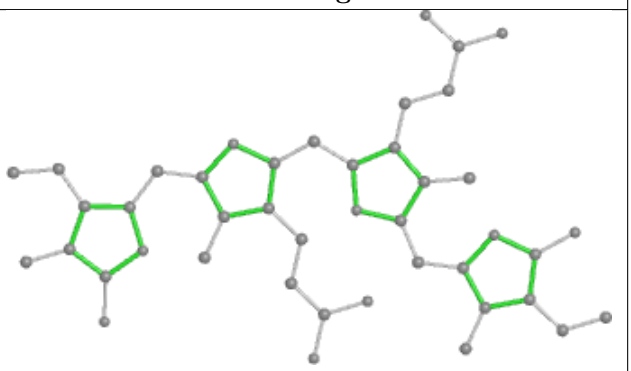
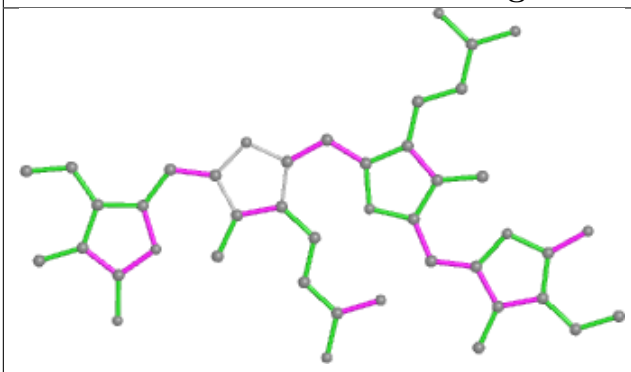


Rings

Ligand CYC 19 1201



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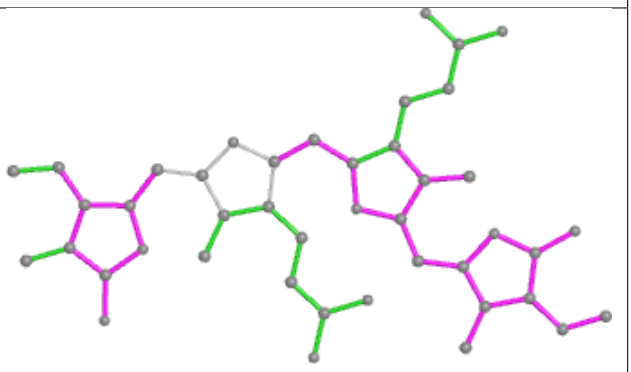
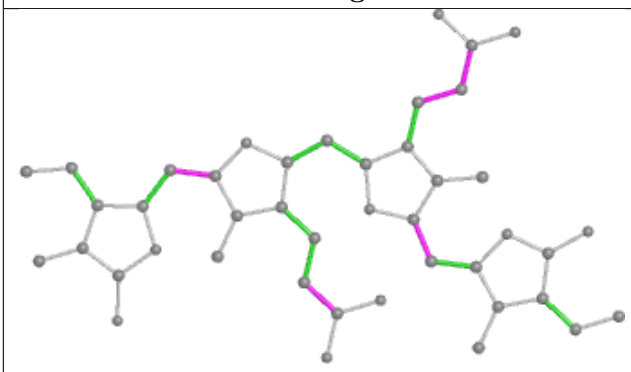
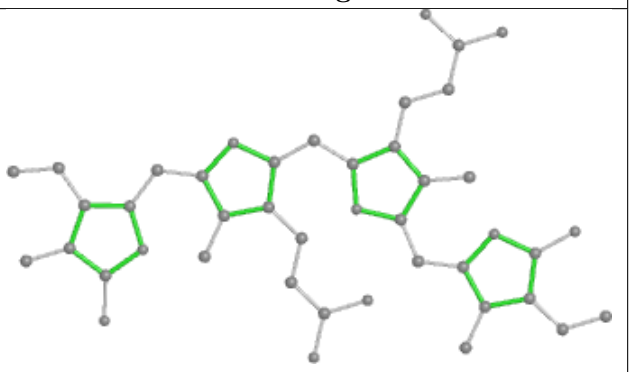


Bond angles

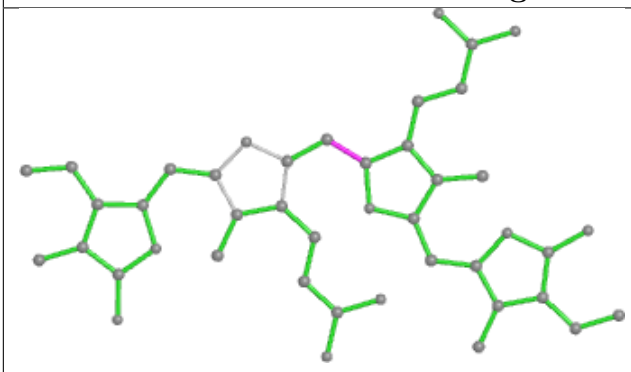


Torsions



Rings

Ligand CYC EA 201



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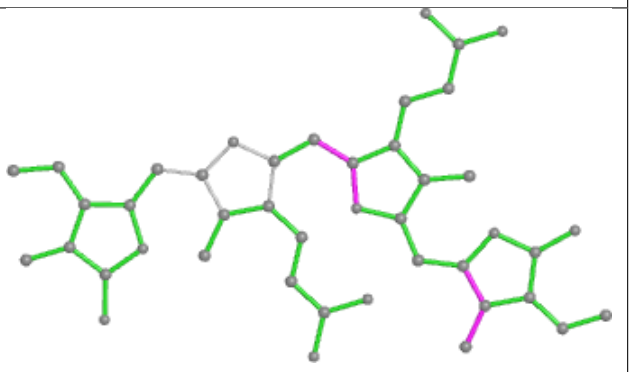
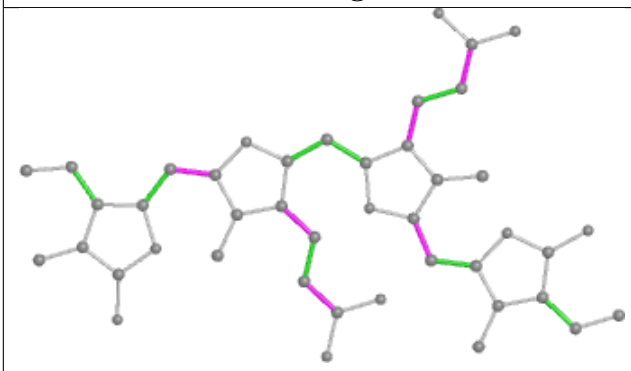


Bond angles



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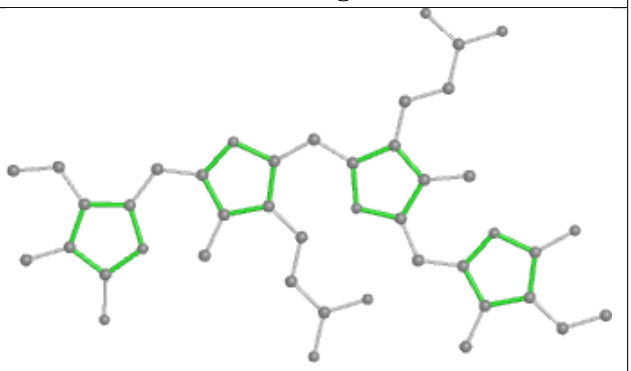
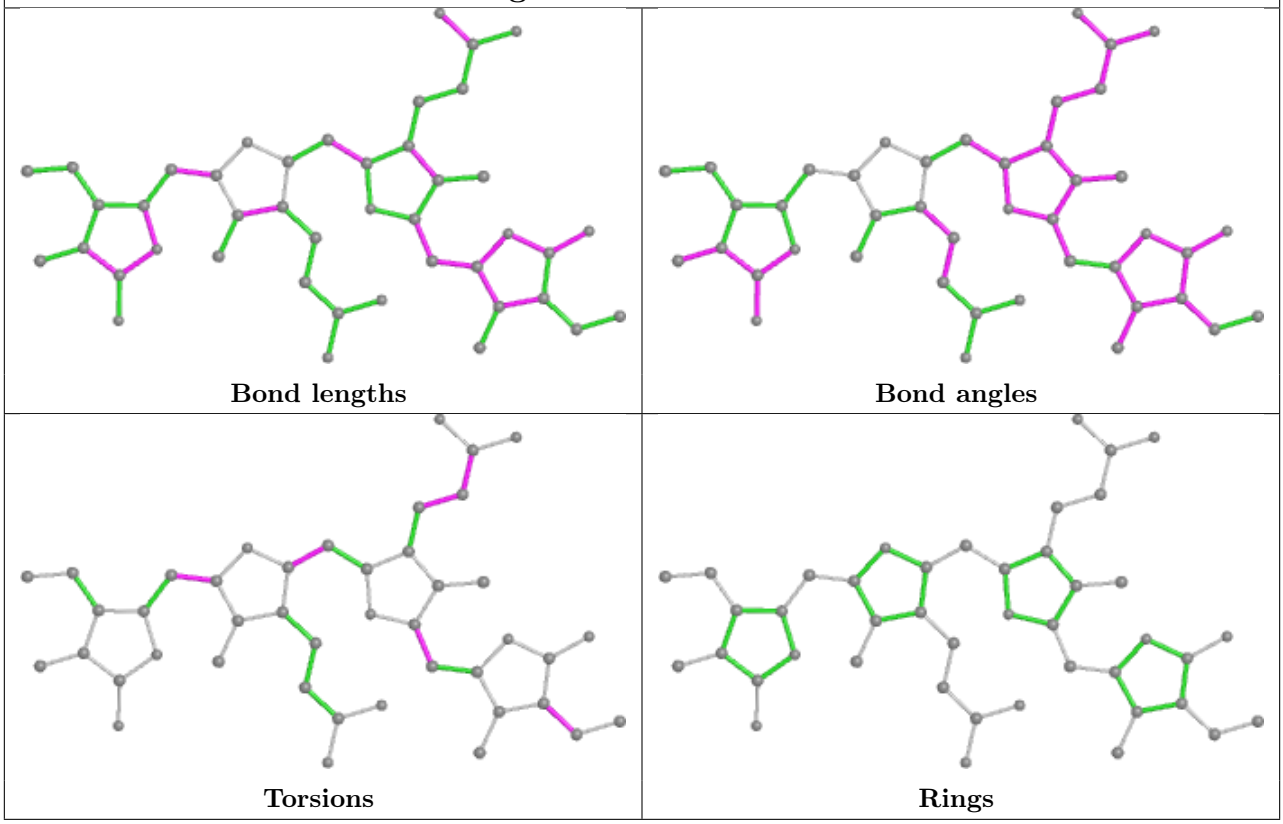
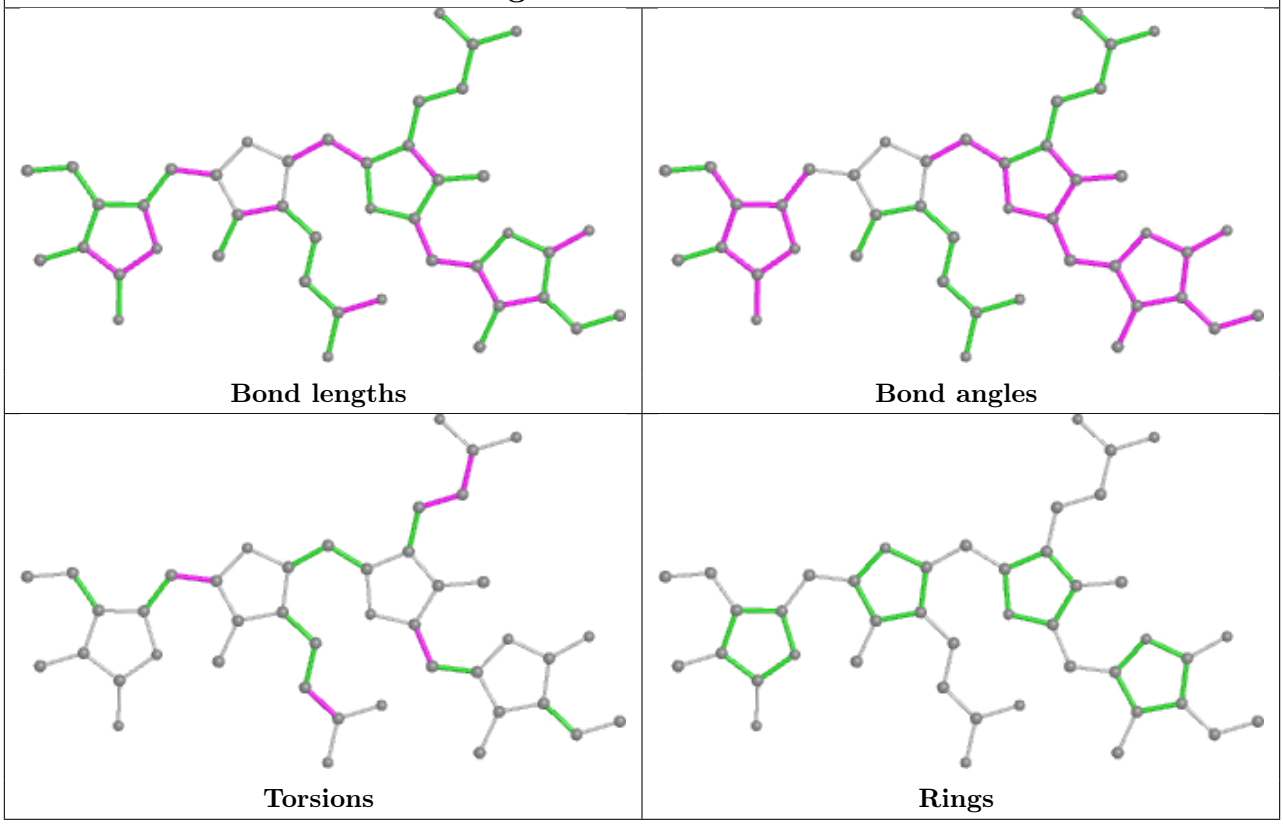


Rings

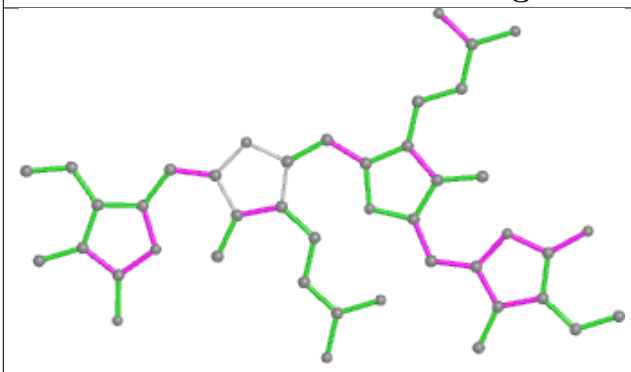
Ligand CYC J5 1001



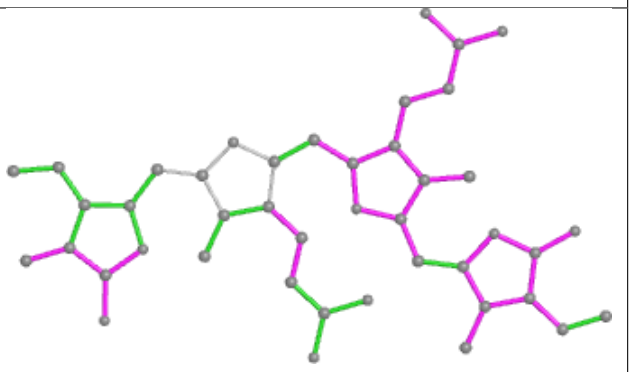
Ligand CYC h8 1001



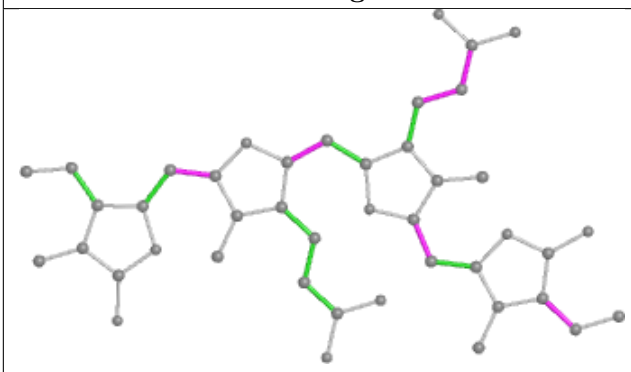
Ligand CYC U6 202



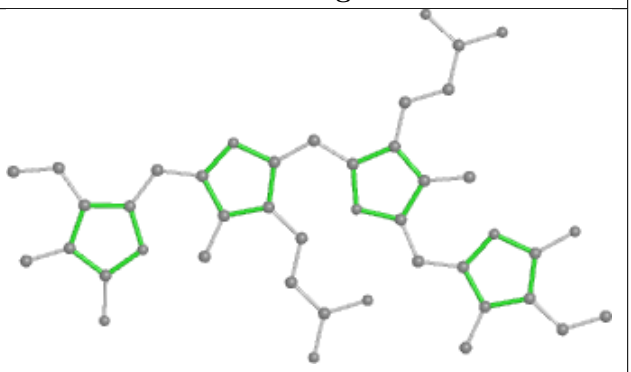
Bond lengths



Bond angles

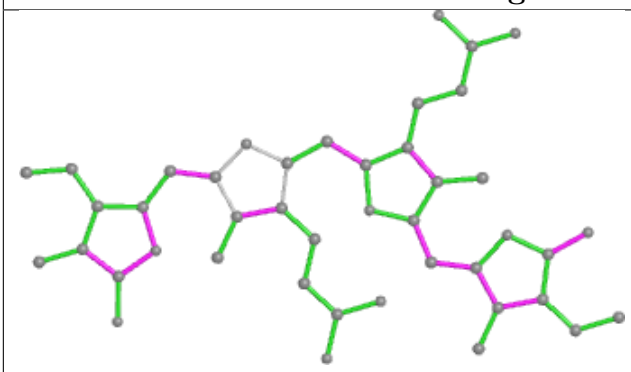


Torsions



Rings

Ligand CYC 19 1203



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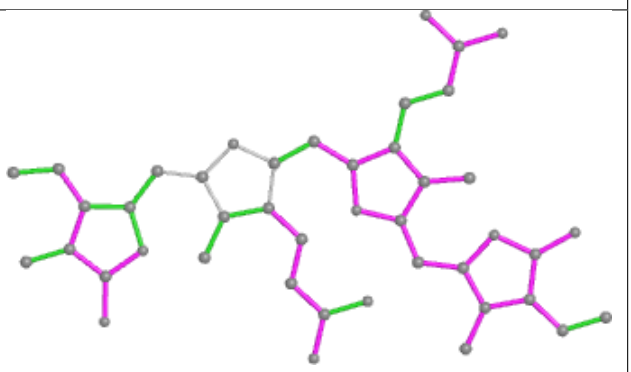
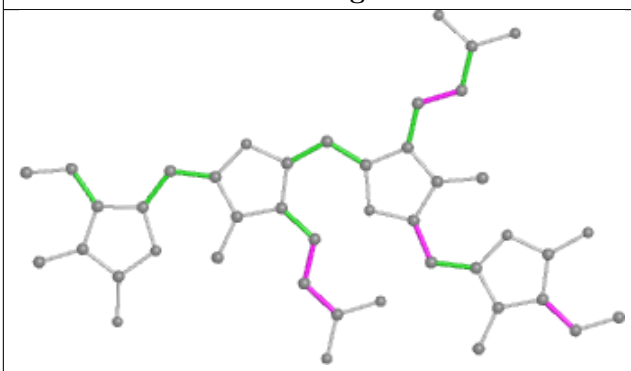


Bond angles



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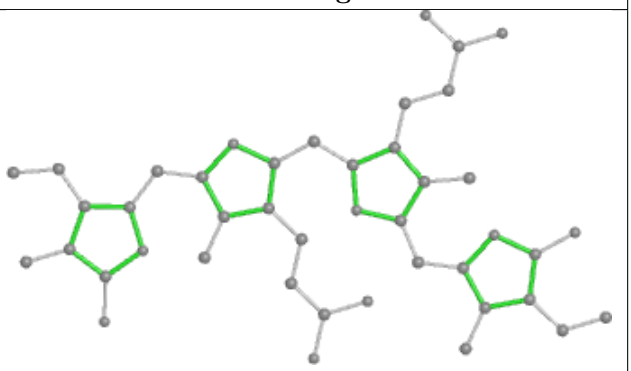
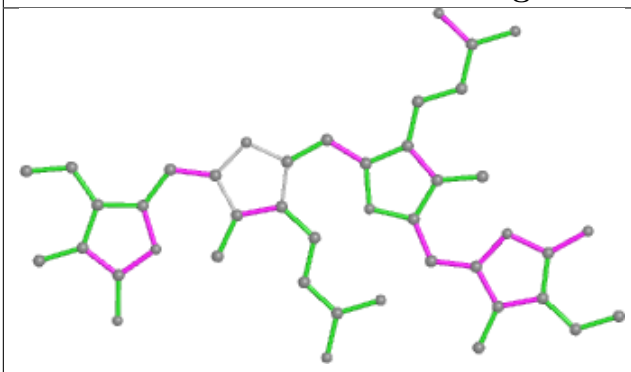
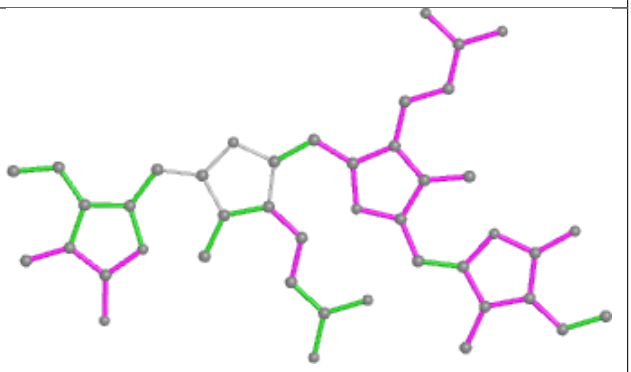


Rings

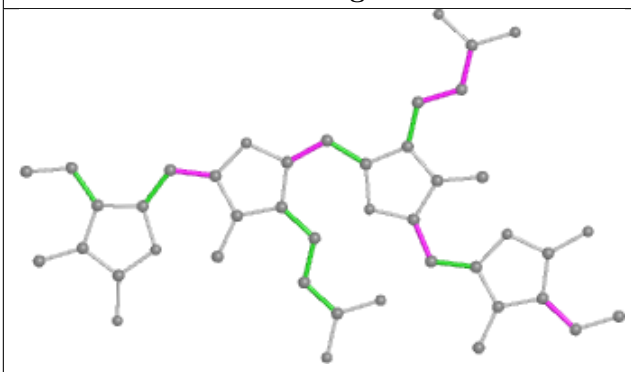
Ligand CYC Y5 201



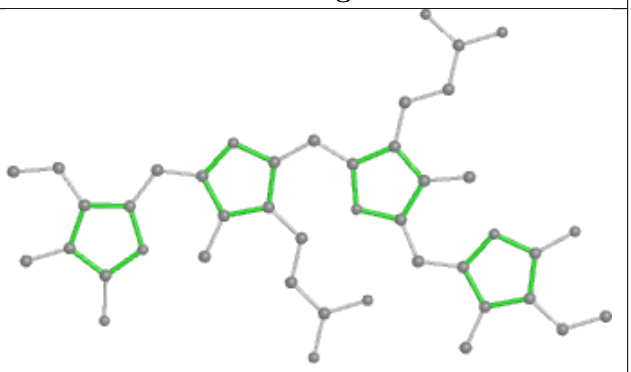
Bond lengths



Bond angles

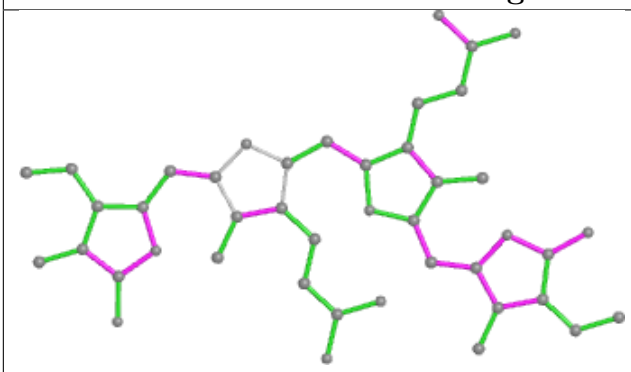


Torsions



Rings

Ligand CYC S1 1001



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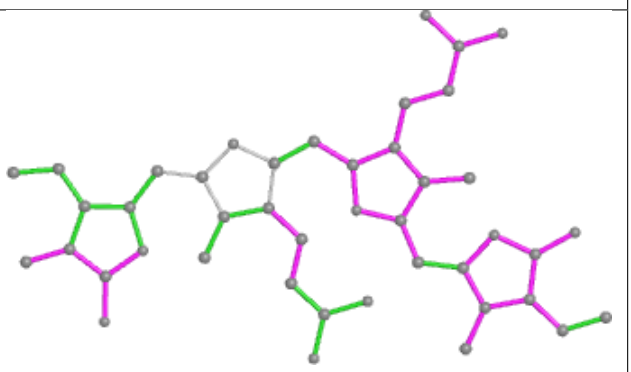
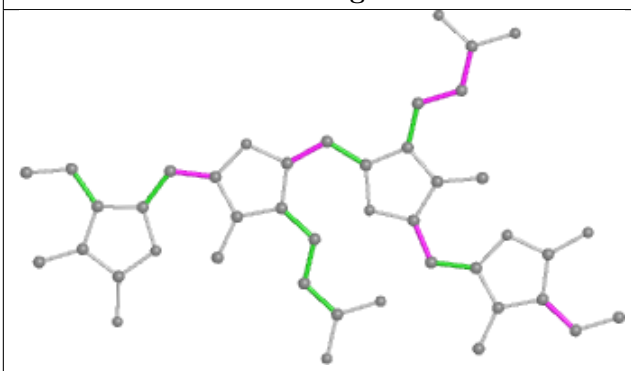
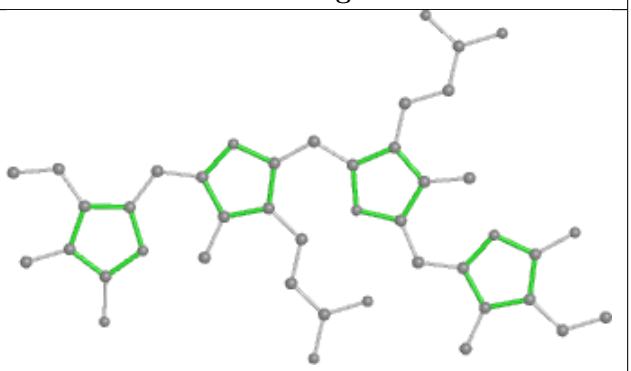


Bond angles

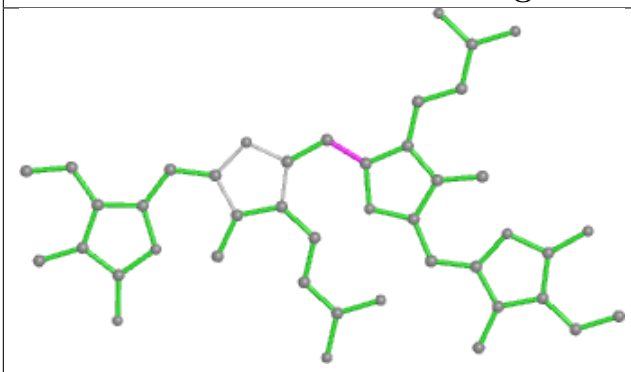


Torsions



Rings

Ligand CYC E1 202



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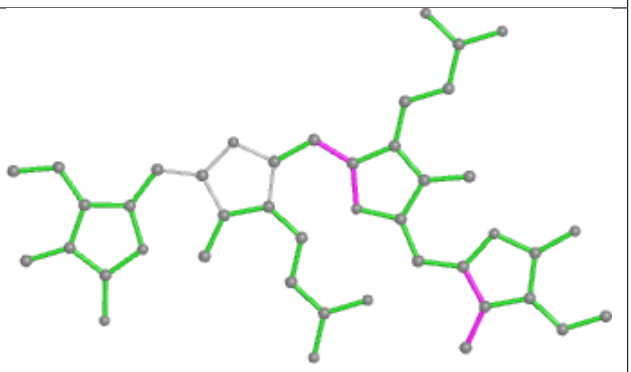
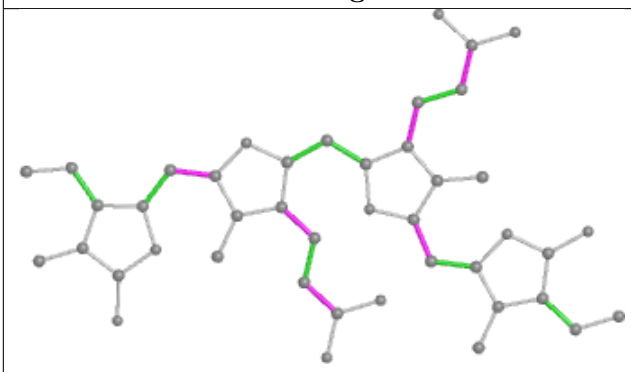
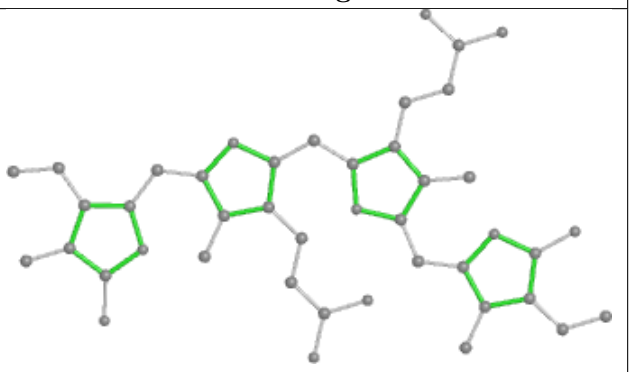


Bond angles

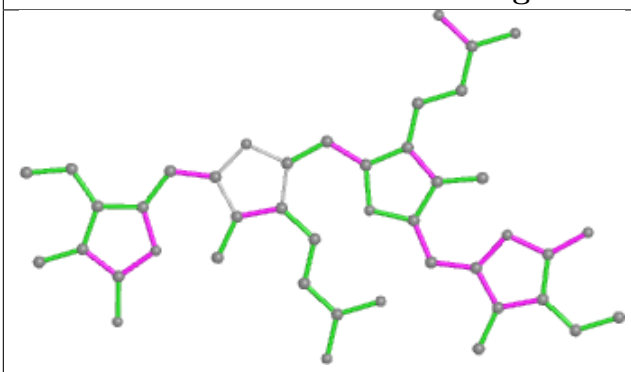


Torsions

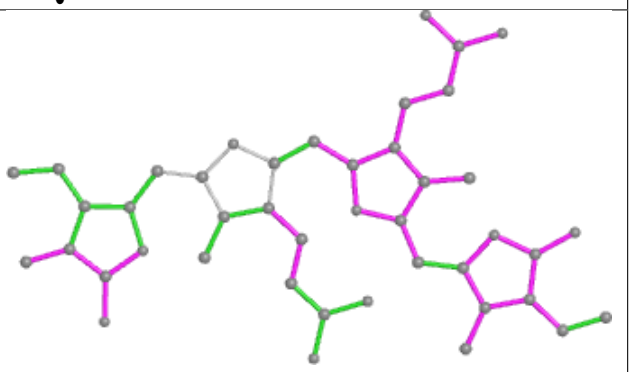


Rings

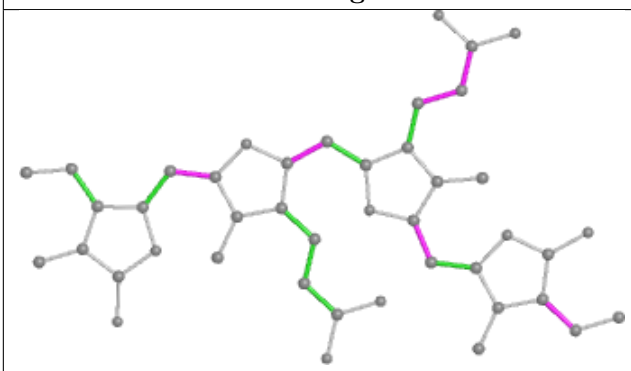
Ligand CYC Q4 201



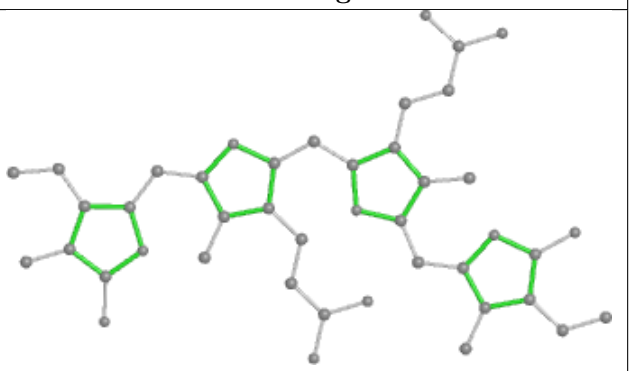
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Map visualisation

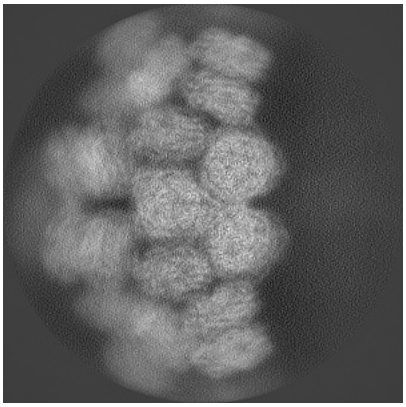
This section contains visualisations of the EMDB entry EMD-31381. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

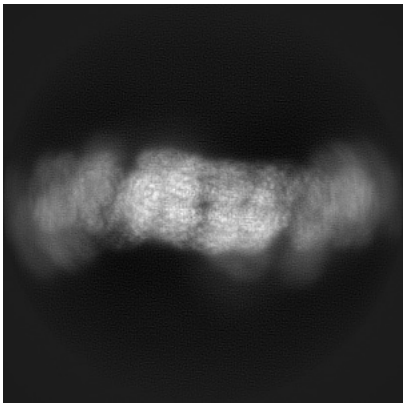
6.1 Orthogonal projections

6.1.1 Primary map

X



Y

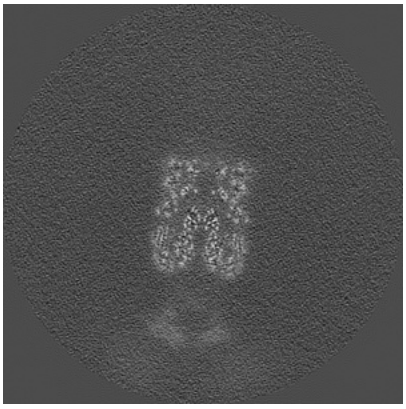


Z

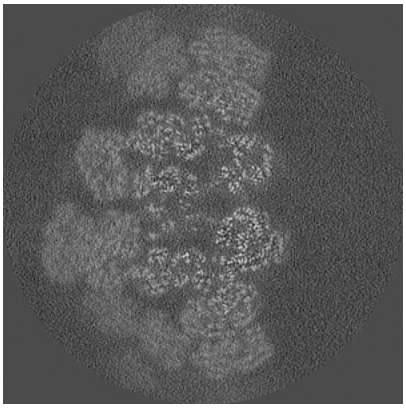
The images above show the map projected in three orthogonal directions.

6.2 Central slices

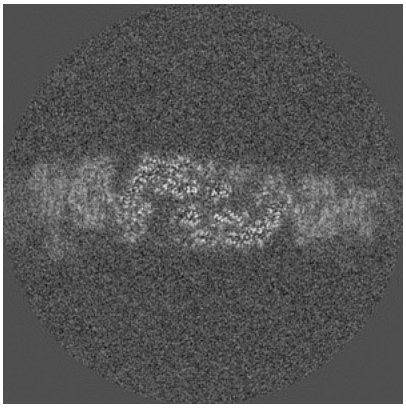
6.2.1 Primary map



X Index: 250



Y Index: 250

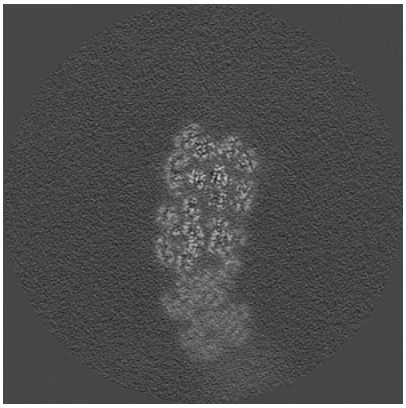


Z Index: 250

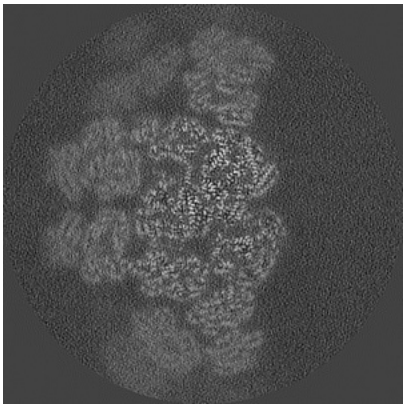
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

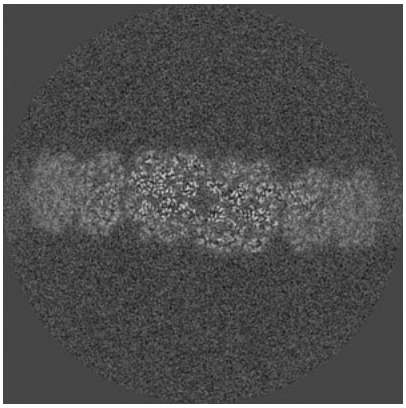
6.3.1 Primary map



X Index: 223



Y Index: 232

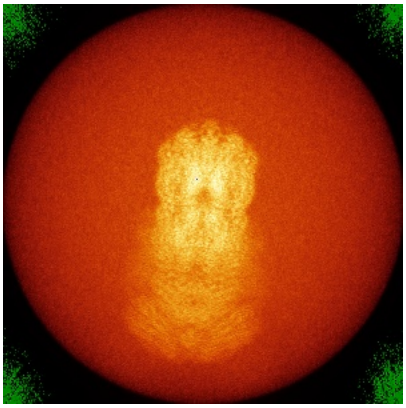


Z Index: 275

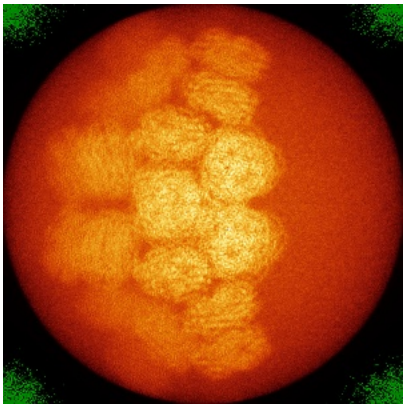
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

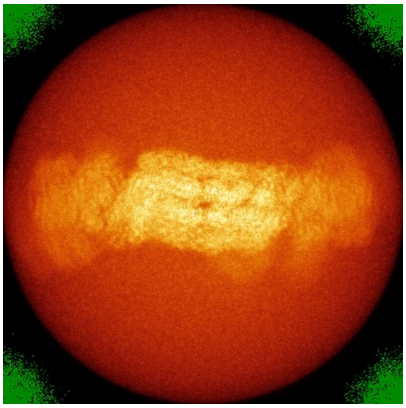
6.4.1 Primary map



X



Y

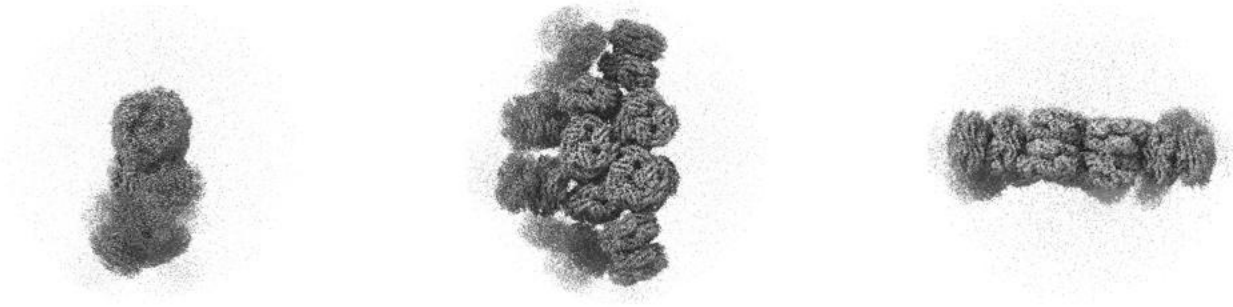


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.0195. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

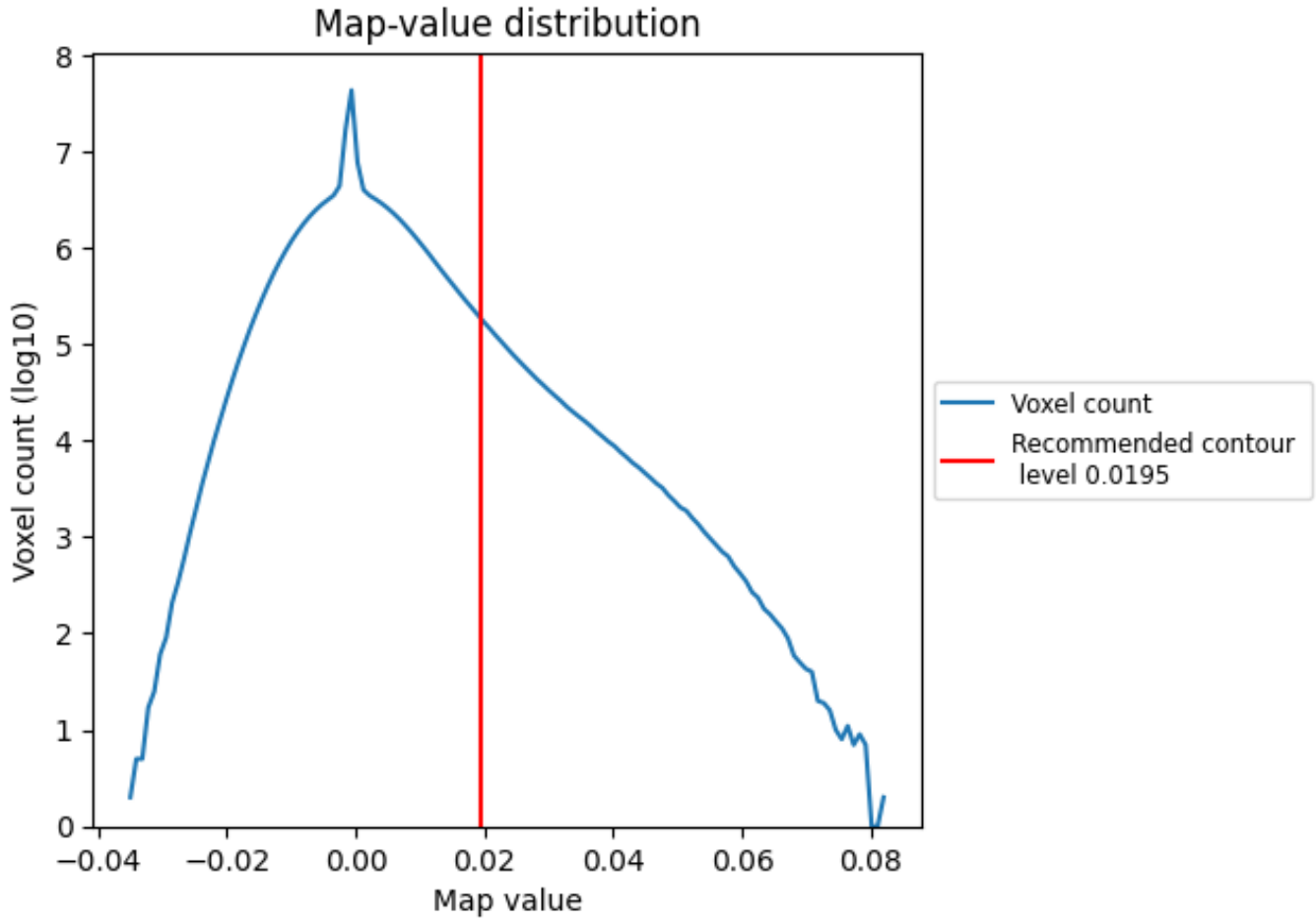
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

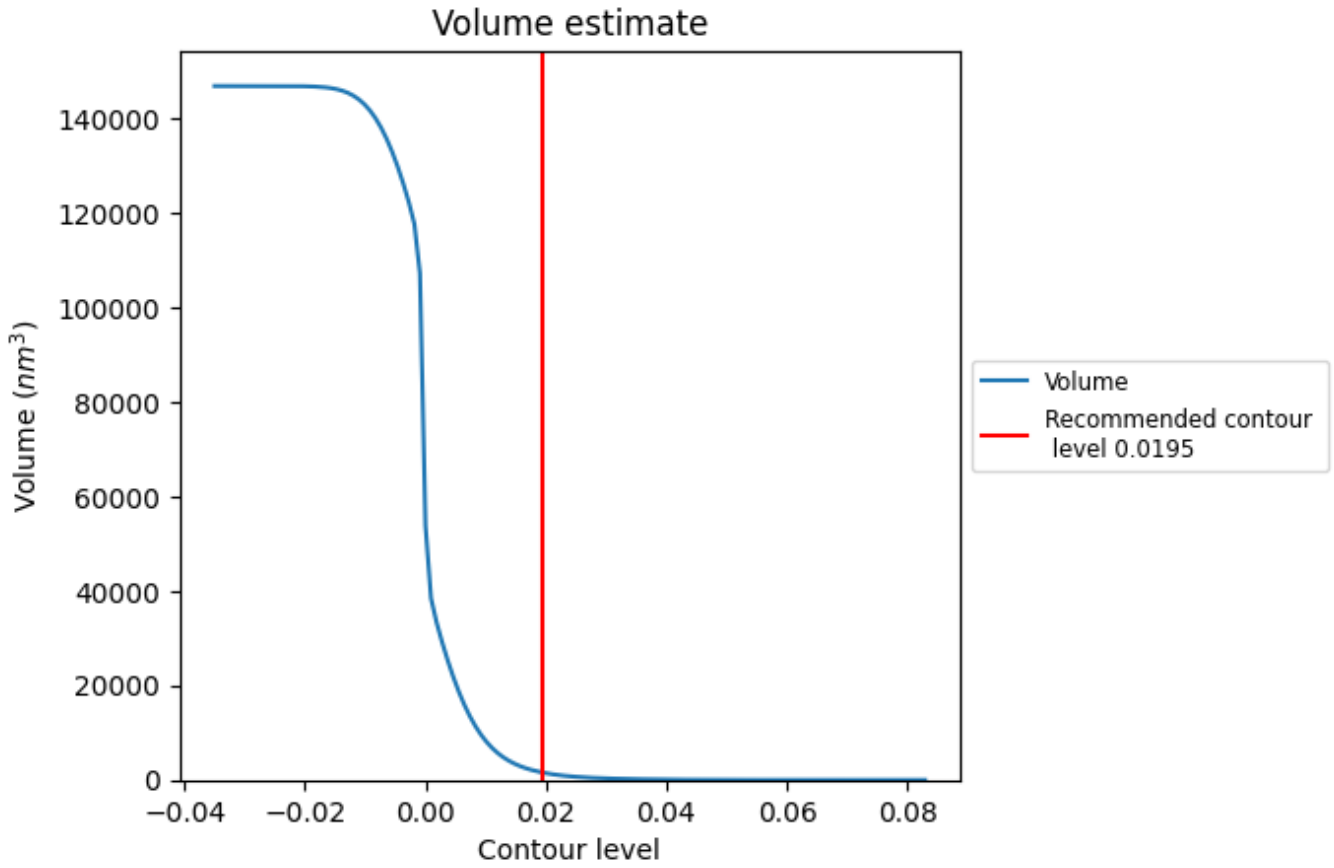
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

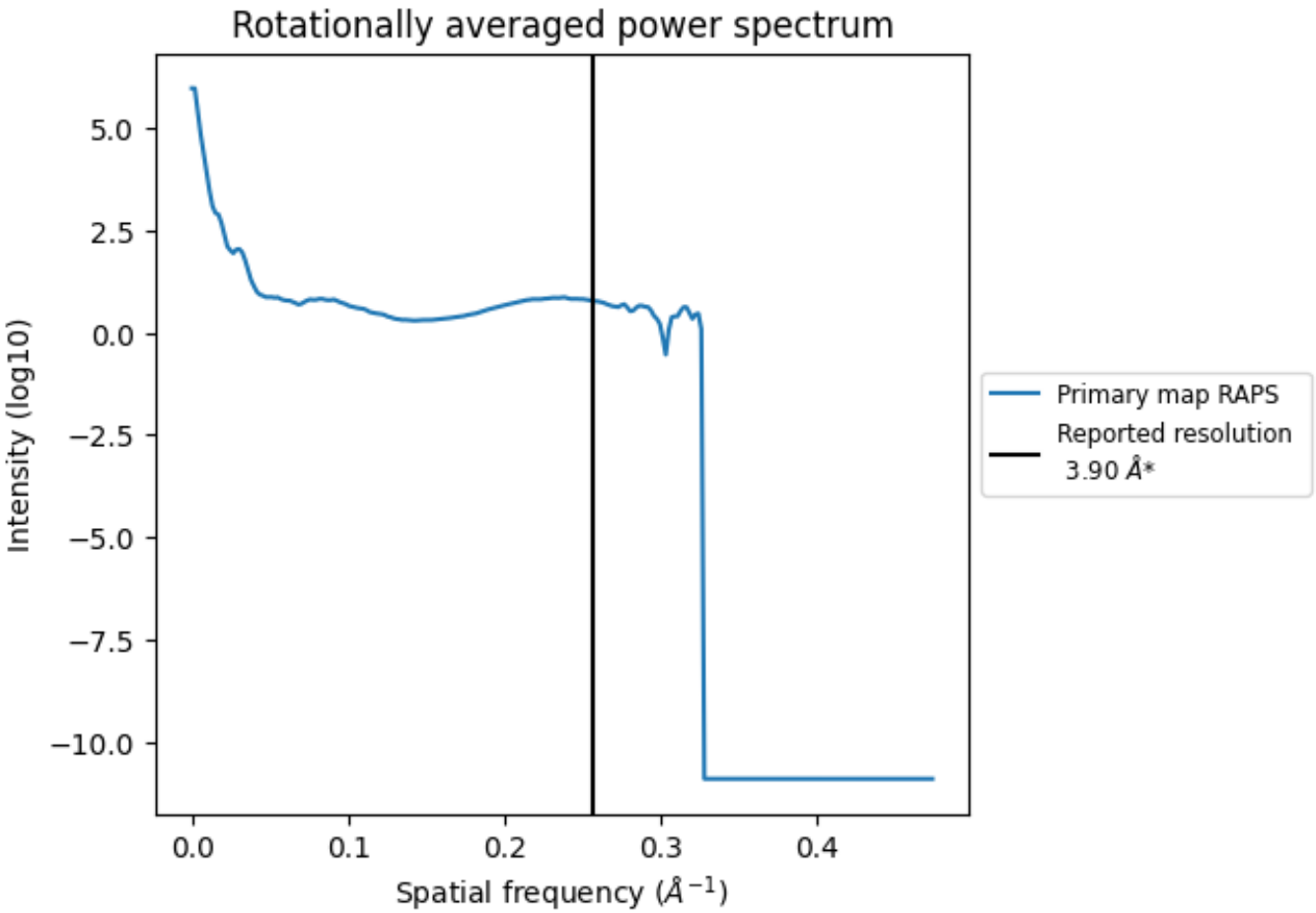
7.2 Volume estimate



The volume at the recommended contour level is 1555 nm^3; this corresponds to an approximate mass of 1405 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.256 Å^{-1}

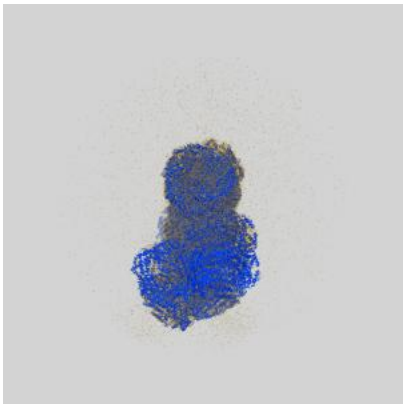
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

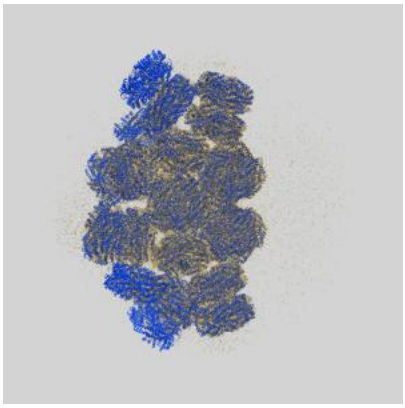
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-31381 and PDB model 7EYD. Per-residue inclusion information can be found in section 3 on page 51.

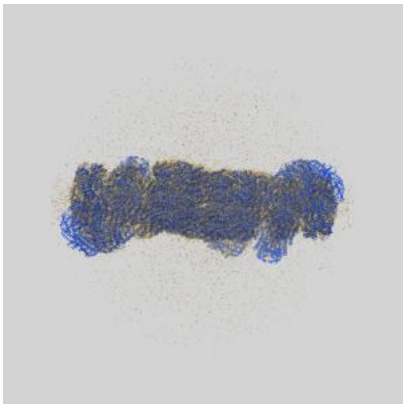
9.1 Map-model overlay



X



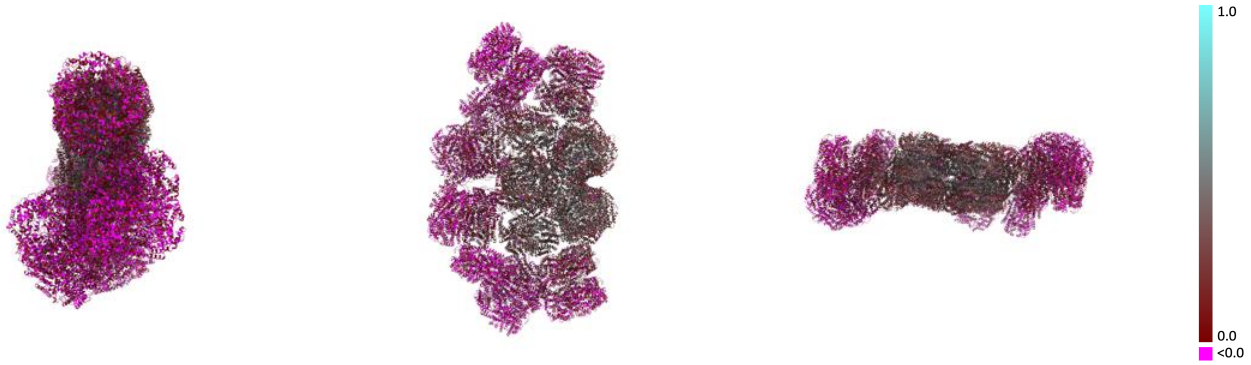
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0195 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

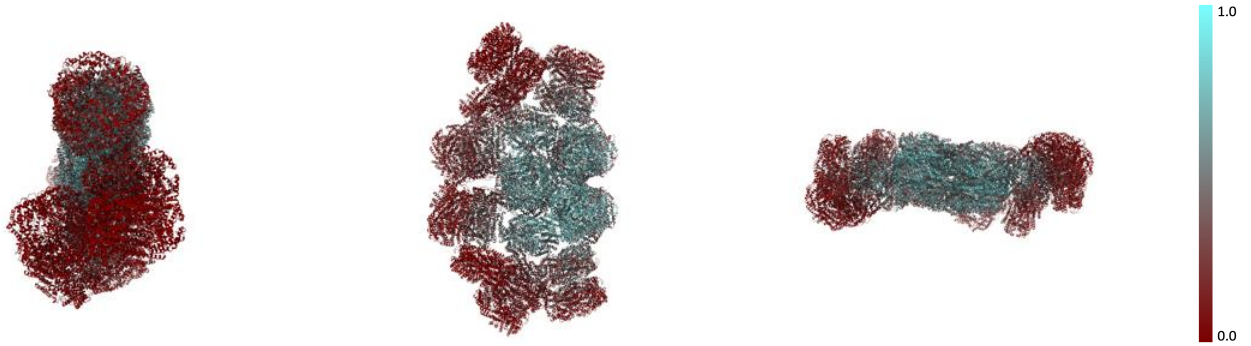
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

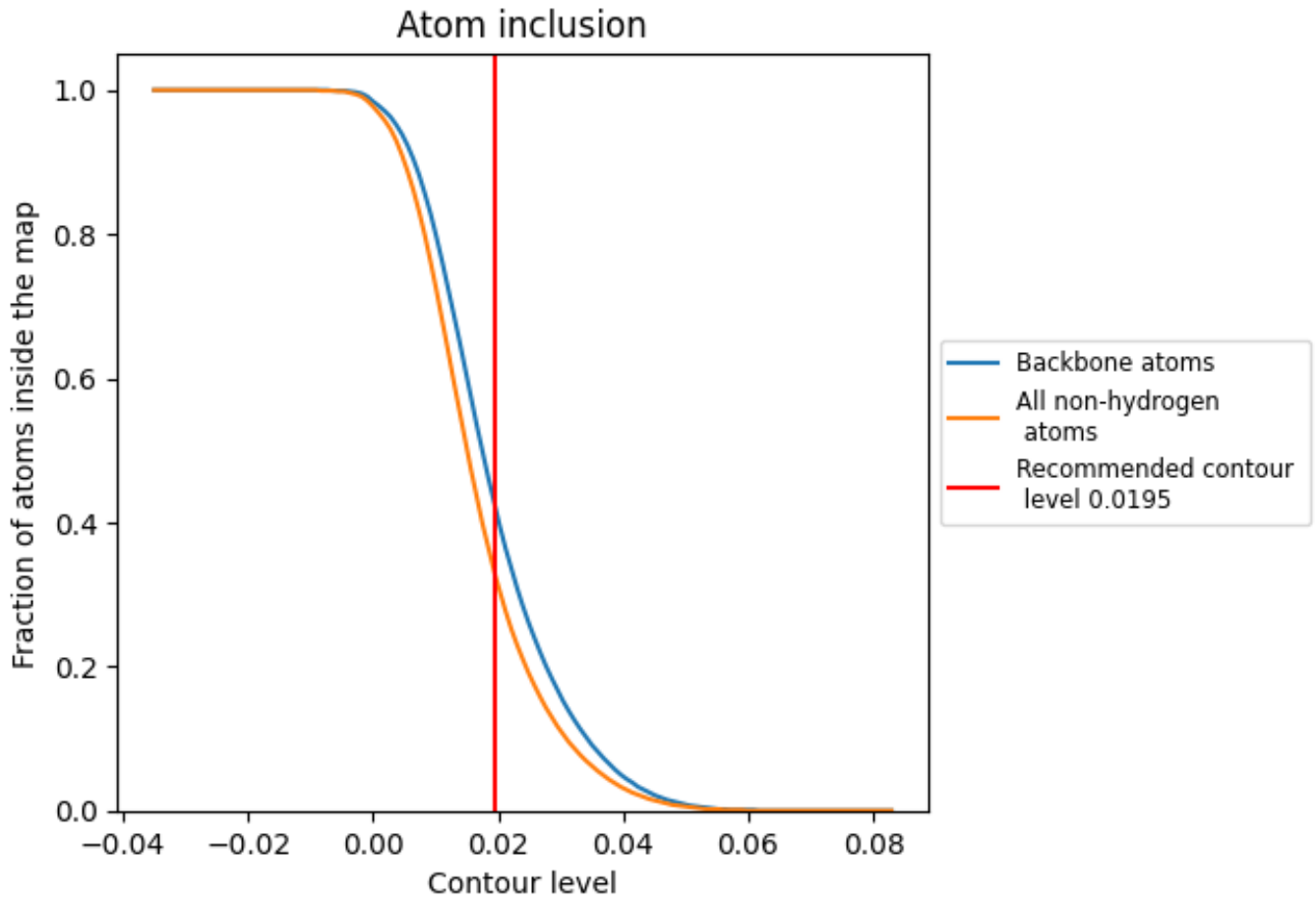
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0195).

9.4 Atom inclusion (i)



At the recommended contour level, 42% of all backbone atoms, 33% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.0195) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3280	0.1710
09	0.7180	0.4170
19	0.7210	0.4210
29	0.5990	0.3660
39	0.6010	0.3640
49	0.6010	0.3620
A1	0.1480	0.0850
A2	0.5910	0.2960
A3	0.0480	0.0430
A4	0.1800	0.0850
A5	0.4510	0.2120
A6	0.6190	0.3240
A7	0.0650	0.0430
A8	0.5750	0.3230
A9	0.5390	0.2580
AA	0.4120	0.1900
B1	0.1310	0.0820
B2	0.5080	0.2620
B3	0.0170	0.0290
B4	0.1700	0.1020
B5	0.3090	0.1060
B6	0.5320	0.2630
B7	0.0270	0.0450
B8	0.6260	0.3170
B9	0.5420	0.2620
BA	0.2990	0.0940
C1	0.0770	0.0520
C2	0.4460	0.2230
C3	0.0430	0.0570
C4	0.1150	0.0860
C5	0.2910	0.1280
C6	0.4670	0.2260
C7	0.0430	0.0560
C8	0.7020	0.3800
C9	0.5680	0.2990

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Chain	Atom inclusion	Q-score
CA	0.2640	0.1300
D1	0.0680	0.0370
D2	0.2690	0.1200
D3	0.0360	0.0310
D4	0.1000	0.0510
D5	0.2580	0.1100
D6	0.3130	0.1240
D7	0.0540	0.0580
D8	0.6550	0.3540
D9	0.5650	0.3090
DA	0.2370	0.1320
E1	0.0710	0.0500
E2	0.2970	0.1490
E3	0.0160	0.0020
E4	0.1130	0.0690
E5	0.3040	0.1270
E6	0.3580	0.1630
E7	0.0290	-0.0060
E8	0.5570	0.2740
E9	0.6140	0.3120
EA	0.2730	0.1400
F1	0.0590	0.0330
F2	0.3860	0.1720
F3	0.0110	0.0110
F4	0.0700	0.0440
F5	0.3520	0.1490
F6	0.4090	0.1890
F7	0.0130	0.0300
F8	0.5950	0.3160
F9	0.5860	0.2890
FA	0.3200	0.1400
G1	0.0920	0.0680
G2	0.4580	0.2460
G3	0.0110	0.0480
G4	0.1380	0.0990
G5	0.4100	0.1700
G6	0.4930	0.2600
G7	0.0170	0.0410
G8	0.6280	0.3440
G9	0.7450	0.4030
GA	0.3710	0.1660
H1	0.0820	0.0300

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Chain	Atom inclusion	Q-score
H2	0.3170	0.1240
H3	0.0120	0.0170
H4	0.1080	0.0620
H5	0.2640	0.1390
H6	0.3250	0.1270
H7	0.0130	-0.0010
H8	0.5570	0.2990
H9	0.7640	0.4470
HA	0.2570	0.1320
I1	0.0600	0.0160
I2	0.2560	0.0900
I3	0.0210	0.0390
I4	0.0840	0.0270
I5	0.2590	0.1110
I6	0.3020	0.1360
I7	0.0280	0.0460
I8	0.6040	0.3360
I9	0.7270	0.3750
IA	0.2510	0.0920
J1	0.0560	0.0470
J2	0.3290	0.1580
J3	0.0280	0.0130
J4	0.0810	0.0260
J5	0.2730	0.1470
J6	0.3480	0.1670
J7	0.0410	0.0470
J8	0.7190	0.3850
J9	0.7260	0.4090
JA	0.2400	0.1120
K1	0.0820	0.0480
K2	0.3670	0.1610
K3	0.0130	0.0040
K4	0.0950	0.0270
K5	0.2260	0.0730
K6	0.4050	0.1650
K7	0.0250	0.0160
K8	0.6670	0.3480
K9	0.6520	0.3410
KA	0.2200	0.0840
L1	0.0950	0.0680
L2	0.4080	0.2010
L3	0.0110	0.0190

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Chain	Atom inclusion	Q-score
L4	0.1060	0.0650
L5	0.3310	0.1370
L6	0.4410	0.2000
L7	0.0110	0.0160
L8	0.5530	0.2600
L9	0.7310	0.3890
LA	0.2640	0.0790
M1	0.0660	0.0260
M2	0.3350	0.1500
M3	0.0050	0.0260
M4	0.0740	0.0230
M5	0.3130	0.1240
M6	0.3730	0.1670
M7	0.0120	0.0300
M8	0.5920	0.3240
M9	0.6750	0.3630
MA	0.2760	0.0890
N1	0.0260	0.0130
N2	0.2920	0.1380
N3	0.0210	0.0050
N4	0.0430	0.0210
N5	0.2170	0.0930
N6	0.3290	0.1530
N7	0.0600	0.0210
N8	0.6320	0.3730
N9	0.7160	0.3840
NA	0.1720	0.0660
O1	0.0030	-0.0190
O2	0.1310	0.0460
O4	0.0080	0.0080
O5	0.1230	0.0590
O6	0.1340	0.0550
O8	0.5320	0.2600
O9	0.7490	0.4320
OA	0.0950	0.0440
P1	0.0120	0.0400
P2	0.1630	0.0820
P4	0.0160	0.0210
P5	0.1390	0.0580
P6	0.1940	0.0750
P8	0.5510	0.2850
P9	0.7180	0.4090

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Chain	Atom inclusion	Q-score
PA	0.1300	0.0600
Q1	0.0050	0.0140
Q2	0.1640	0.0570
Q4	0.0040	0.0120
Q5	0.1180	0.0710
Q6	0.2160	0.0740
Q8	0.5900	0.3140
Q9	0.7460	0.4380
QA	0.0980	0.0480
R1	0.0120	0.0010
R2	0.2100	0.1000
R4	0.0130	0.0070
R5	0.1530	0.0710
R6	0.2600	0.1410
R8	0.5500	0.2960
R9	0.4620	0.2610
RA	0.1210	0.0550
S1	0.0060	0.0200
S2	0.1730	0.0780
S4	0.0080	0.0250
S5	0.1190	0.0450
S6	0.1720	0.0800
S8	0.5960	0.2850
S9	0.4950	0.2790
SA	0.0900	0.0200
T1	0.0110	0.0090
T2	0.2290	0.1000
T4	0.0110	0.0210
T5	0.1450	0.0750
T6	0.2260	0.1020
T8	0.5990	0.2940
T9	0.5040	0.2570
TA	0.1260	0.0810
U1	0.0050	0.0090
U2	0.1370	0.0630
U4	0.0040	-0.0010
U5	0.0990	0.0550
U6	0.1330	0.0540
U8	0.5800	0.3130
U9	0.5190	0.2760
UA	0.0690	0.0180
V1	0.0020	-0.0020

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Chain	Atom inclusion	Q-score
V2	0.1030	0.0470
V4	0.0020	-0.0070
V5	0.0860	0.0150
V6	0.1160	0.0290
V8	0.4040	0.2150
V9	0.5600	0.3370
VA	0.0650	0.0370
W1	0.0020	0.0110
W2	0.1000	0.0610
W4	0.0020	-0.0350
W5	0.0650	0.0490
W6	0.1260	0.0430
W8	0.4810	0.2280
W9	0.5870	0.3180
WA	0.0650	0.0450
X1	0.0040	-0.0070
X2	0.1050	0.0670
X4	0.0030	-0.0050
X5	0.0830	0.0560
X6	0.1100	0.0550
X8	0.5980	0.2810
X9	0.7000	0.3700
XA	0.0550	0.0260
Y1	0.0040	0.0040
Y2	0.1260	0.0700
Y4	0.0050	0.0160
Y5	0.1030	0.0820
Y6	0.1370	0.0640
Y8	0.6550	0.3410
Y9	0.7100	0.3960
YA	0.0520	0.0450
Z1	0.0020	0.0270
Z2	0.0980	0.0300
Z4	0.0090	0.0150
Z5	0.0970	0.0380
Z6	0.1380	0.0750
Z8	0.6540	0.3560
Z9	0.6430	0.3330
ZA	0.0600	0.0230
a8	0.5600	0.2760
a9	0.7210	0.3780
b8	0.6050	0.3240

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Chain	Atom inclusion	Q-score
b9	0.7160	0.3840
c8	0.4020	0.1980
c9	0.7790	0.4430
d8	0.4750	0.2400
d9	0.6730	0.3610
e8	0.5680	0.2770
e9	0.7530	0.4400
f8	0.6140	0.3180
f9	0.7040	0.4060
g8	0.6580	0.3480
g9	0.7160	0.4280
h8	0.5410	0.2740
h9	0.6890	0.3730
i8	0.5540	0.2840
i9	0.4100	0.2230
j8	0.5420	0.2600
j9	0.5000	0.2670
k8	0.5420	0.2930
k9	0.4560	0.2150
l8	0.4950	0.2390
l9	0.4770	0.2580
m8	0.6560	0.3590
m9	0.5200	0.3020
n8	0.6840	0.3590
n9	0.5520	0.3010
o8	0.6590	0.3450
o9	0.6200	0.3040
p8	0.5540	0.2540
p9	0.6970	0.3700
q8	0.5650	0.2940
q9	0.6660	0.3330
r8	0.4830	0.2340
r9	0.7440	0.4080
s8	0.6750	0.3660
s9	0.6830	0.3710
t8	0.7130	0.3760
t9	0.7170	0.3990
u8	0.6760	0.3280
u9	0.6100	0.3020
v9	0.6860	0.3530
w9	0.6610	0.3310
x9	0.7310	0.3870

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Chain	Atom inclusion	Q-score
y9	0.6930	0.3650
z9	0.7210	0.3950