Full wwPDB EM Validation Report ⓘ

Sep 8, 2025 – 08:39 PM JST

PDB ID	:	7EXT / pdb_00007ext
EMDB ID	:	EMD-31373
Title	:	Cryo-EM structure of cyanobacterial phycobilisome from Synechococcus sp. PCC 7002
Authors	:	Zheng, L.; Zheng, Z.; Li, X.; Wang, G.; Zhang, K.; Wei, P.; Zhao, J.; Gao, N.
Deposited on	:	2021-05-28
Resolution	:	3.50 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:

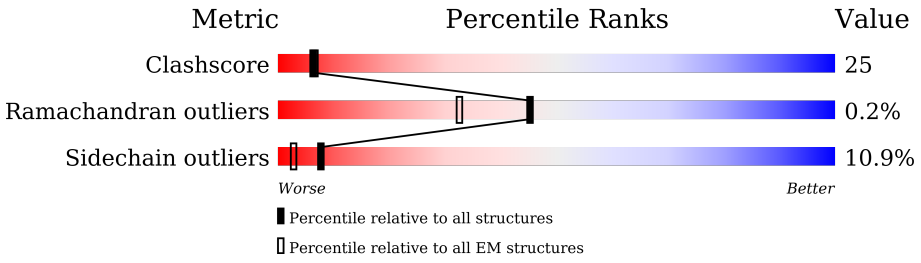
EMDB validation analysis	:	0.0.1.dev126
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4-5-2 with Phenix2.0rc1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
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 3.50 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	248	77% 63% 24% • 9%
1	A2	248	40% 65% 25% • 8%
1	A4	248	67% 65% 24% • 9%
1	A5	248	78% 59% 28% • 9%
1	A6	248	42% 67% 23% • 8%
1	A8	248	67% 67% 21% • 9%
2	B1	162	99% 71% 27% •
2	B2	162	62% 73% 25% •

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Mol	Chain	Length	Quality of chain
2	B4	162	94% 61% 33% 6%
2	B5	162	98% 69% 28%
2	B6	162	64% 76% 22%
2	B8	162	93% 62% 31% 6%
2	D1	162	100% 67% 31%
2	D2	162	93% 72% 27%
2	D4	162	100% 62% 31% 7%
2	D5	162	100% 67% 31%
2	D6	162	94% 73% 25%
2	D8	162	100% 63% 30% 7%
2	F1	162	99% 67% 31%
2	F2	162	85% 73% 25%
2	F4	162	97% 62% 32% 5%
2	F5	162	99% 67% 31%
2	F6	162	83% 75% 23%
2	F8	162	97% 62% 31% 6%
2	H1	162	99% 71% 27%
2	H2	162	90% 75% 23%
2	H4	162	99% 66% 28% 6%
2	H5	162	100% 70% 28%
2	H6	162	91% 75% 23%
2	H8	162	100% 67% 28% 5%
2	J1	162	98% 63% 35%
2	J2	162	74% 75% 24%
2	J4	162	94% 60% 34% 6%

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Mol	Chain	Length	Quality of chain
2	J5	162	99% 63% 35%
2	J6	162	74% 75% 24%
2	J8	162	92% 62% 32% 6%
2	L1	162	99% 68% 30%
2	L2	162	95% 75% 23%
2	L4	162	98% 62% 33% 6%
2	L5	162	99% 67% 31%
2	L6	162	96% 76% 22%
2	L8	162	96% 62% 31% 7%
2	O1	162	99% 70% 27%
2	O2	162	100% 78% 20%
2	O4	162	100% 60% 34% 6%
2	O5	162	99% 70% 27%
2	O6	162	100% 79% 19%
2	O8	162	100% 60% 34% 6%
2	Q1	162	100% 69% 30%
2	Q2	162	100% 74% 24%
2	Q4	162	100% 62% 33% 5%
2	Q5	162	100% 69% 30%
2	Q6	162	99% 73% 25%
2	Q8	162	100% 62% 34%
2	S1	162	100% 68% 30%
2	S2	162	100% 76% 23%
2	S4	162	100% 60% 36%
2	S5	162	100% 69% 30%

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Mol	Chain	Length	Quality of chain
2	S6	162	100% 77% 22%
2	S8	162	100% 59% 36%
2	U1	162	100% 68% 30%
2	U2	162	100% 74% 25%
2	U4	162	100% 61% 33% 6%
2	U5	162	100% 68% 30%
2	U6	162	100% 76% 23%
2	U8	162	100% 61% 33% 6%
2	W1	162	100% 70% 28%
2	W2	162	100% 77% 22%
2	W4	162	100% 65% 29% 6%
2	W5	162	100% 70% 28%
2	W6	162	100% 75% 24%
2	W8	162	100% 65% 29% 6%
2	Y1	162	100% 70% 28%
2	Y2	162	100% 75% 23%
2	Y4	162	100% 61% 33% 5%
2	Y5	162	100% 70% 28%
2	Y6	162	100% 75% 23%
2	Y8	162	100% 60% 33% 6%
3	C1	172	100% 72% 23% 5%
3	C2	172	81% 68% 24% 8%
3	C4	172	99% 60% 32% 8%
3	C5	172	100% 73% 22% 5%
3	C6	172	83% 69% 24% 7%

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Mol	Chain	Length	Quality of chain
3	C8	172	98% 60% 33% 8%
3	E1	172	100% 73% 22% 5%
3	E2	172	93% 69% 24% 7%
3	E4	172	100% 58% 36% 6%
3	E5	172	100% 73% 22% 5%
3	E6	172	94% 68% 24% 8%
3	E8	172	100% 57% 37% 6%
3	G1	172	98% 73% 22% 5%
3	G2	172	56% 72% 23% 5%
3	G4	172	95% 61% 32% 7%
3	G5	172	98% 73% 22% 5%
3	G6	172	58% 68% 27% 5%
3	G8	172	95% 63% 30% 7%
3	I1	172	99% 72% 23% 5%
3	I2	172	78% 66% 25% 9%
3	I4	172	96% 62% 31% 7%
3	I5	172	99% 71% 24% 5%
3	I6	172	81% 64% 26% 10%
3	I8	172	99% 62% 31% 7%
3	K1	172	100% 72% 23% 6%
3	K2	172	88% 67% 28% 5%
3	K4	172	97% 53% 37% 9%
3	K5	172	100% 71% 23% 6%
3	K6	172	89% 67% 28% 5%
3	K8	172	97% 55% 36% 9%

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Mol	Chain	Length	Quality of chain
3	M1	172	100% 70% 24% 5%
3	M2	172	91% 66% 28% 6%
3	M4	172	99% 60% 33% 7%
3	M5	172	100% 70% 25% 5%
3	M6	172	91% 65% 28% 6%
3	M8	172	99% 60% 33% 7%
3	P1	172	100% 72% 23% 5%
3	P2	172	100% 67% 22% 10%
3	P4	172	100% 59% 35% 6%
3	P5	172	100% 72% 23% 5%
3	P6	172	100% 67% 24% 8%
3	P8	172	100% 60% 34% 6%
3	R1	172	100% 72% 23% 5%
3	R2	172	97% 72% 21% 6%
3	R4	172	100% 59% 34% 6%
3	R5	172	100% 73% 22% 5%
3	R6	172	98% 70% 23% 7%
3	R8	172	100% 60% 34% 6%
3	T1	172	100% 72% 23% 5%
3	T2	172	100% 68% 26% 6%
3	T4	172	100% 57% 37% 6%
3	T5	172	100% 72% 23% 5%
3	T6	172	100% 69% 24% 6%
3	T8	172	100% 56% 38% 5%
3	V1	172	100% 73% 22% 5%

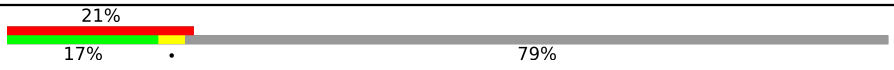
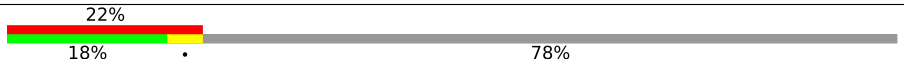
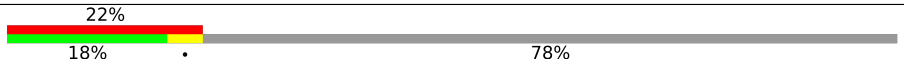
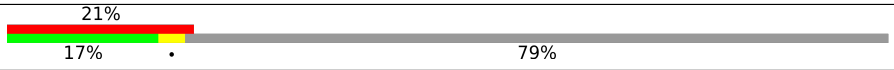
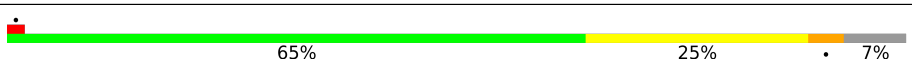
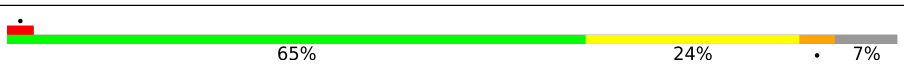
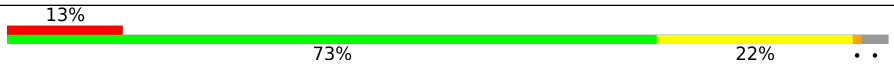
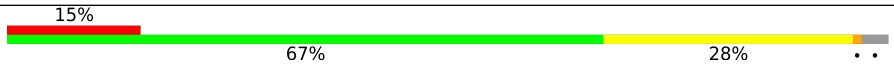
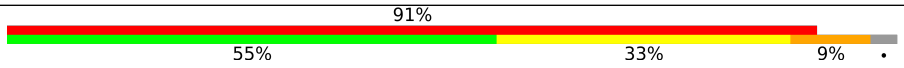
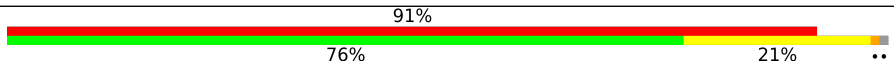
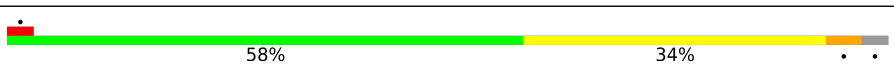
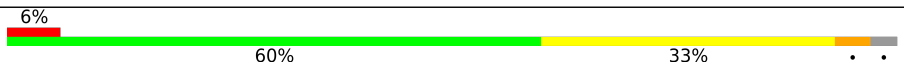
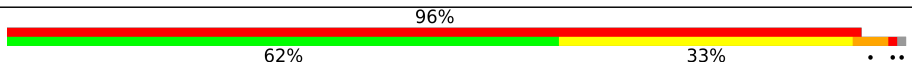
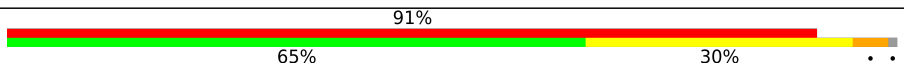
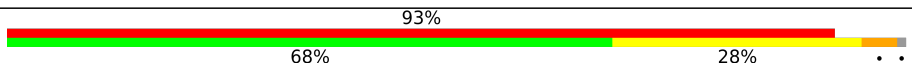
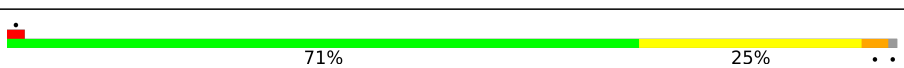
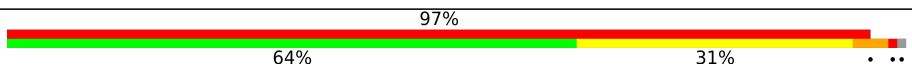
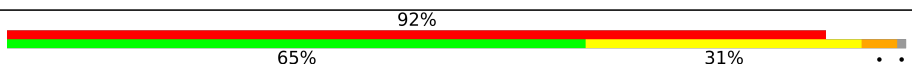
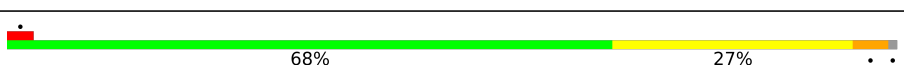
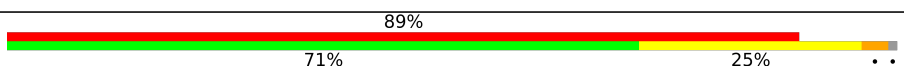
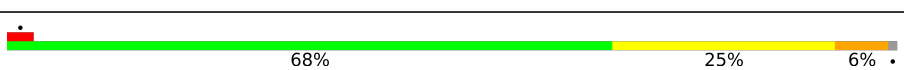
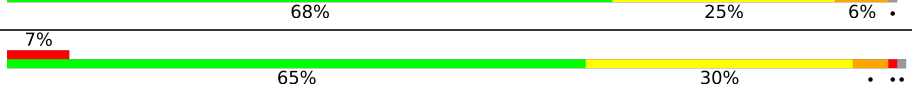
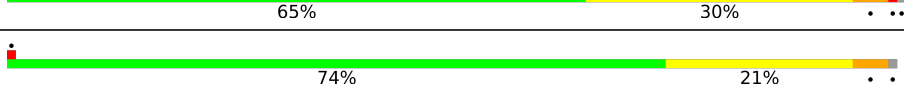
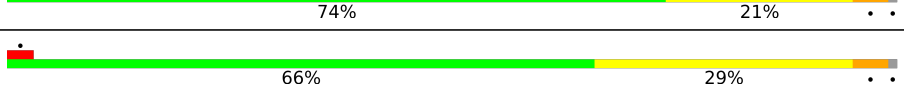
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Mol	Chain	Length	Quality of chain
3	V2	172	99% 69% 27%
3	V4	172	100% 59% 36% 5%
3	V5	172	100% 73% 22% 5%
3	V6	172	100% 69% 26%
3	V8	172	100% 59% 36% 5%
3	X1	172	100% 73% 22% 5%
3	X2	172	100% 68% 24% 7%
3	X4	172	100% 63% 32% 5%
3	X5	172	100% 73% 22% 5%
3	X6	172	100% 67% 26% 7%
3	X8	172	100% 66% 30%
3	Z1	172	100% 73% 22% 5%
3	Z2	172	100% 69% 24% 6%
3	Z4	172	100% 64% 28% 8%
3	Z5	172	100% 74% 20% 5%
3	Z6	172	99% 70% 23% 6%
3	Z8	172	100% 63% 29% 8%
4	N1	290	99% 76% 22%
4	N2	290	91% 69% 28%
4	N4	290	97% 76% 23%
4	N5	290	99% 74% 24%
4	N6	290	89% 69% 28%
4	N8	290	96% 76% 23%
4	a1	290	22% 18% 78%
4	a2	290	22% 18% 78%

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Mol	Chain	Length	Quality of chain
4	a4	290	
4	a5	290	
4	a6	290	
4	a8	290	
5	03	886	
5	13	886	
6	23	67	
6	33	67	
6	G7	67	
6	N7	67	
6	U7	67	
6	b7	67	
7	A7	161	
7	C7	161	
7	E7	161	
7	G3	161	
7	H7	161	
7	I3	161	
7	J7	161	
7	K3	161	
7	L7	161	
7	N3	161	
7	O7	161	
7	P3	161	
7	Q7	161	

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Mol	Chain	Length	Quality of chain
7	R3	161	27% 75% 22%
7	S7	161	7% 70% 25%
7	T3	161	57% 71% 25%
7	V7	161	7% 64% 31%
7	X3	161	66% 27% 6%
7	X7	161	66% 30%
7	Z3	161	67% 29%
7	Z7	161	7% 71% 24%
7	b3	161	74% 22%
7	d3	161	63% 32% 5%
7	f3	161	72% 23%
7	i3	161	25% 75% 22%
7	k3	161	59% 72% 24%
7	o3	161	62% 32% 6%
7	q3	161	63% 30% 6%
7	s3	161	72% 23%
7	u3	161	5% 65% 29% 6%
7	w3	161	63% 32%
7	y3	161	5% 71% 24%
8	B7	161	98% 73% 24%
8	D7	161	93% 71% 24% 5%
8	F7	161	98% 67% 29%
8	H3	161	78% 17%
8	I7	161	99% 68% 27% 5%
8	J3	161	74% 22%

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Mol	Chain	Length	Quality of chain
8	K7	161	93% 68% 26% 6%
8	L3	161	78% 18%
8	M3	161	75% 21%
8	M7	161	99% 70% 25%
8	O3	161	80% 17%
8	P7	161	7% 71% 24% 5%
8	R7	161	72% 24%
8	S3	161	41% 80% 16%
8	T7	161	6% 69% 26% 5%
8	U3	161	50% 77% 19%
8	W3	161	36% 76% 20%
8	W7	161	7% 71% 25%
8	Y3	161	74% 23%
8	Y7	161	72% 23% 5%
8	a3	161	76% 20%
8	a7	161	6% 70% 25%
8	c3	161	79% 17%
8	e3	161	76% 20%
8	h3	161	75% 21%
8	j3	161	48% 79% 17%
8	l3	161	50% 80% 17%
8	n3	161	34% 76% 20%
8	p3	161	77% 19%
8	r3	161	75% 20%
8	t3	161	75% 22%

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Mol	Chain	Length	Quality of chain
8	v3	161	79% 18%
8	x3	161	73% 22%
8	z3	161	76% 19%
9	Q3	169	81% 18%
9	g3	169	80% 19%
10	V3	161	31% 74% 23%
10	m3	161	31% 74% 23%

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
11	CYC	13	902	-	-	X	-
11	CYC	A4	301	-	-	X	-
11	CYC	A8	301	-	-	X	-
11	CYC	B1	201	-	-	X	-
11	CYC	B2	201	-	-	X	-
11	CYC	B5	201	-	-	X	-
11	CYC	B6	201	-	-	X	-
11	CYC	B7	1001	-	-	X	-
11	CYC	C1	201	-	-	X	-
11	CYC	C1	202	-	-	X	-
11	CYC	C2	202	-	-	X	-
11	CYC	C4	201	-	-	X	-
11	CYC	C5	201	-	-	X	-
11	CYC	C5	202	-	-	X	-
11	CYC	C6	202	-	-	X	-
11	CYC	C6	203	-	-	X	-
11	CYC	C8	201	-	-	X	-
11	CYC	D1	201	-	-	X	-
11	CYC	D2	201	-	-	X	-
11	CYC	D4	201	-	-	X	-
11	CYC	D5	201	-	-	X	-
11	CYC	D8	201	-	-	X	-
11	CYC	E2	202	-	-	X	-
11	CYC	E2	203	-	-	X	-
11	CYC	E4	202	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
11	CYC	E4	203	-	-	X	-
11	CYC	E6	202	-	-	X	-
11	CYC	E8	202	-	-	X	-
11	CYC	E8	203	-	-	X	-
11	CYC	F1	201	-	-	X	-
11	CYC	F4	201	-	-	X	-
11	CYC	F5	201	-	-	X	-
11	CYC	F6	201	-	-	X	-
11	CYC	F7	1001	-	-	X	-
11	CYC	F8	201	-	-	X	-
11	CYC	G1	201	-	-	X	-
11	CYC	G1	202	-	-	X	-
11	CYC	G2	201	-	-	X	-
11	CYC	G4	201	-	-	X	-
11	CYC	G5	202	-	-	X	-
11	CYC	G6	201	-	-	X	-
11	CYC	G8	201	-	-	X	-
11	CYC	H1	201	-	-	X	-
11	CYC	H2	201	-	-	X	-
11	CYC	H5	201	-	-	X	-
11	CYC	H6	201	-	-	X	-
11	CYC	I1	202	-	-	X	-
11	CYC	I2	202	-	-	X	-
11	CYC	I2	203	-	-	X	-
11	CYC	I4	201	-	-	X	-
11	CYC	I4	202	-	-	X	-
11	CYC	I4	203	-	-	X	-
11	CYC	I5	202	-	-	X	-
11	CYC	I6	202	-	-	X	-
11	CYC	I7	1001	-	-	X	-
11	CYC	I8	201	-	-	X	-
11	CYC	I8	202	-	-	X	-
11	CYC	I8	203	-	-	X	-
11	CYC	J1	201	-	-	X	-
11	CYC	J5	201	-	-	X	-
11	CYC	J6	201	-	-	X	-
11	CYC	K1	202	-	-	X	-
11	CYC	K2	202	-	-	X	-
11	CYC	K2	203	-	-	X	-
11	CYC	K4	202	-	-	X	-
11	CYC	K5	202	-	-	X	-
11	CYC	K6	202	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
11	CYC	K8	202	-	-	X	-
11	CYC	L1	201	-	-	X	-
11	CYC	L4	201	-	-	X	-
11	CYC	L4	202	-	-	X	-
11	CYC	L5	201	-	-	X	-
11	CYC	L6	201	-	-	X	-
11	CYC	L8	201	-	-	X	-
11	CYC	L8	202	-	-	X	-
11	CYC	M1	202	-	-	X	-
11	CYC	M2	202	-	-	X	-
11	CYC	M4	201	-	-	X	-
11	CYC	M5	202	-	-	X	-
11	CYC	M6	202	-	-	X	-
11	CYC	M8	201	-	-	X	-
11	CYC	N4	301	-	-	X	-
11	CYC	N8	301	-	-	X	-
11	CYC	O1	201	-	-	X	-
11	CYC	O4	201	-	-	X	-
11	CYC	O5	201	-	-	X	-
11	CYC	O6	201	-	-	X	-
11	CYC	O8	201	-	-	X	-
11	CYC	P1	202	-	-	X	-
11	CYC	P2	202	-	-	X	-
11	CYC	P4	202	-	-	X	-
11	CYC	P4	203	-	-	X	-
11	CYC	P5	202	-	-	X	-
11	CYC	P6	202	-	-	X	-
11	CYC	P8	202	-	-	X	-
11	CYC	P8	203	-	-	X	-
11	CYC	Q1	201	-	-	X	-
11	CYC	Q2	201	-	-	X	-
11	CYC	Q5	201	-	-	X	-
11	CYC	Q6	201	-	-	X	-
11	CYC	R1	202	-	-	X	-
11	CYC	R2	201	-	-	X	-
11	CYC	R4	201	-	-	X	-
11	CYC	R5	202	-	-	X	-
11	CYC	R6	201	-	-	X	-
11	CYC	R6	202	-	-	X	-
11	CYC	R8	201	-	-	X	-
11	CYC	S1	201	-	-	X	-
11	CYC	S2	201	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
11	CYC	S4	201	-	-	X	-
11	CYC	S5	201	-	-	X	-
11	CYC	S8	201	-	-	X	-
11	CYC	T1	201	-	-	X	-
11	CYC	T2	201	-	-	X	-
11	CYC	T2	202	-	-	X	-
11	CYC	T4	202	-	-	X	-
11	CYC	T5	201	-	-	X	-
11	CYC	T6	201	-	-	X	-
11	CYC	T8	202	-	-	X	-
11	CYC	U1	201	-	-	X	-
11	CYC	U1	202	-	-	X	-
11	CYC	U4	201	-	-	X	-
11	CYC	U5	201	-	-	X	-
11	CYC	U5	202	-	-	X	-
11	CYC	U6	201	-	-	X	-
11	CYC	U8	201	-	-	X	-
11	CYC	V1	202	-	-	X	-
11	CYC	V2	202	-	-	X	-
11	CYC	V4	202	-	-	X	-
11	CYC	V5	202	-	-	X	-
11	CYC	V6	202	-	-	X	-
11	CYC	V8	202	-	-	X	-
11	CYC	W2	201	-	-	X	-
11	CYC	W4	201	-	-	X	-
11	CYC	W6	201	-	-	X	-
11	CYC	W8	201	-	-	X	-
11	CYC	X1	202	-	-	X	-
11	CYC	X1	203	-	-	X	-
11	CYC	X2	202	-	-	X	-
11	CYC	X2	203	-	-	X	-
11	CYC	X4	202	-	-	X	-
11	CYC	X5	202	-	-	X	-
11	CYC	X5	203	-	-	X	-
11	CYC	X6	202	-	-	X	-
11	CYC	X8	202	-	-	X	-
11	CYC	Y4	201	-	-	X	-
11	CYC	Y6	201	-	-	X	-
11	CYC	Y8	201	-	-	X	-
11	CYC	Z1	202	-	-	X	-
11	CYC	Z2	201	-	-	X	-
11	CYC	Z2	203	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
11	CYC	Z4	202	-	-	X	-
11	CYC	Z5	202	-	-	X	-
11	CYC	Z6	202	-	-	X	-
11	CYC	Z8	202	-	-	X	-

2 Entry composition (i)

There are 11 unique types of molecules in this entry. The entry contains 322286 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 CpcG.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A1	225	Total	C	N	O	S	0	0
			1841	1168	325	343	5		
1	A2	228	Total	C	N	O	S	0	0
			1865	1185	329	346	5		
1	A4	225	Total	C	N	O	S	0	0
			1841	1168	325	343	5		
1	A5	225	Total	C	N	O	S	0	0
			1841	1168	325	343	5		
1	A6	228	Total	C	N	O	S	0	0
			1865	1185	329	346	5		
1	A8	225	Total	C	N	O	S	0	0
			1841	1168	325	343	5		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B1	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	D1	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	F1	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	H1	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	J1	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	L1	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	O1	161	Total	C	N	O	S	0	0
			1232	776	209	243	4		
2	Q1	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	S1	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	U1	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	W1	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	Y1	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	B2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	D2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	F2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	H2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	J2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	L2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	O2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	Q2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	S2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	U2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	W2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	Y2	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	B4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	D4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	F4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	H4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	J4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	L4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	O4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	Q4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	S4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	U4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	W4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	Y4	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	B5	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	D5	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	F5	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	H5	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	J5	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	L5	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	O5	161	Total	C	N	O	S	0	0
			1232	776	209	243	4		
2	Q5	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	S5	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	U5	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	W5	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	Y5	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	B6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	D6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	F6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	H6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	J6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	L6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	O6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	Q6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	S6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	U6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	W6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	Y6	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	B8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	D8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	F8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	H8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	J8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	L8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	O8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	Q8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	S8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	U8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	W8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		
2	Y8	162	Total	C	N	O	S	0	0
			1240	781	210	244	5		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	E1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	G1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	I1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	K1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	M1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	P1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	R1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	T1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	V1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	X1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	Z1	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	C2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	E2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	G2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	I2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	K2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	M2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	P2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	R2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	T2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	V2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	X2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	Z2	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	C4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	E4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	G4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	I4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	K4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	M4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	P4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	R4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	T4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	V4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	X4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	Z4	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	C5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	E5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	G5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	I5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	K5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	M5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	P5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	R5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	T5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	V5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	X5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	Z5	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	C6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	E6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	G6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	I6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	K6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	M6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	P6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	R6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	T6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	V6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	X6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	Z6	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	C8	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	E8	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		
3	G8	172	Total	C	N	O	S	0	0
			1281	794	227	251	9		

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Mol	Chain	Residues	Atoms	AltConf	Trace
3	I8	172	Total C N O S 1281 794 227 251 9	0	0
3	K8	172	Total C N O S 1281 794 227 251 9	0	0
3	M8	172	Total C N O S 1281 794 227 251 9	0	0
3	P8	172	Total C N O S 1281 794 227 251 9	0	0
3	R8	172	Total C N O S 1281 794 227 251 9	0	0
3	T8	172	Total C N O S 1281 794 227 251 9	0	0
3	V8	172	Total C N O S 1281 794 227 251 9	0	0
3	X8	172	Total C N O S 1281 794 227 251 9	0	0
3	Z8	172	Total C N O S 1281 794 227 251 9	0	0

- Molecule 4 is a protein called Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod.

Mol	Chain	Residues	Atoms	AltConf	Trace
4	N1	289	Total C N O S 2270 1413 416 438 3	0	0
4	a1	64	Total C N O S 487 301 96 89 1	0	0
4	N2	289	Total C N O S 2270 1413 416 438 3	0	0
4	a2	64	Total C N O S 487 301 96 89 1	0	0
4	N4	289	Total C N O S 2270 1413 416 438 3	0	0
4	a4	61	Total C N O S 469 290 93 85 1	0	0
4	N5	289	Total C N O S 2270 1413 416 438 3	0	0
4	a5	64	Total C N O S 487 301 96 89 1	0	0
4	N6	289	Total C N O S 2270 1413 416 438 3	0	0
4	a6	64	Total C N O S 487 301 96 89 1	0	0

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Mol	Chain	Residues	Atoms	AltConf	Trace
4	N8	289	Total C N O S 2270 1413 416 438 3	0	0
4	a8	61	Total C N O S 469 290 93 85 1	0	0

- Molecule 5 is a protein called Phycobiliprotein ApcE.

Mol	Chain	Residues	Atoms	AltConf	Trace
5	03	826	Total C N O S 6594 4183 1160 1235 16	0	0
5	13	826	Total C N O S 6594 4183 1160 1235 16	0	0

- Molecule 6 is a protein called Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core.

Mol	Chain	Residues	Atoms	AltConf	Trace
6	23	65	Total C N O S 529 335 99 91 4	0	0
6	33	65	Total C N O S 529 335 99 91 4	0	0
6	G7	65	Total C N O S 529 335 99 91 4	0	0
6	N7	66	Total C N O S 537 340 100 92 5	0	0
6	U7	65	Total C N O S 529 335 99 91 4	0	0
6	b7	65	Total C N O S 529 335 99 91 4	0	0

- Molecule 7 is a protein called Allophycocyanin alpha subunit.

Mol	Chain	Residues	Atoms	AltConf	Trace
7	G3	160	Total C N O S 1199 748 203 240 8	0	0
7	I3	160	Total C N O S 1199 748 203 240 8	0	0
7	K3	160	Total C N O S 1199 748 203 240 8	0	0
7	N3	160	Total C N O S 1199 748 203 240 8	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	P3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	R3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	T3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	X3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	Z3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	b3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	d3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	f3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	i3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	k3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	o3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	q3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	s3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	u3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	w3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	y3	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	A7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	C7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	E7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	H7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	J7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	L7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	O7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	Q7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	S7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	V7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	X7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		
7	Z7	160	Total	C	N	O	S	0	0
			1199	748	203	240	8		

- Molecule 8 is a protein called Allophycocyanin beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	J3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	L3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	M3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	O3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	S3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	U3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	W3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	Y3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	a3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	c3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	e3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	h3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	j3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	l3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	n3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	p3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	r3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	t3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	v3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	x3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	z3	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	B7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	D7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	F7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	I7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	K7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	M7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	P7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	R7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	T7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	W7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		
8	Y7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	a7	161	Total	C	N	O	S	0	0
			1205	756	204	237	8		

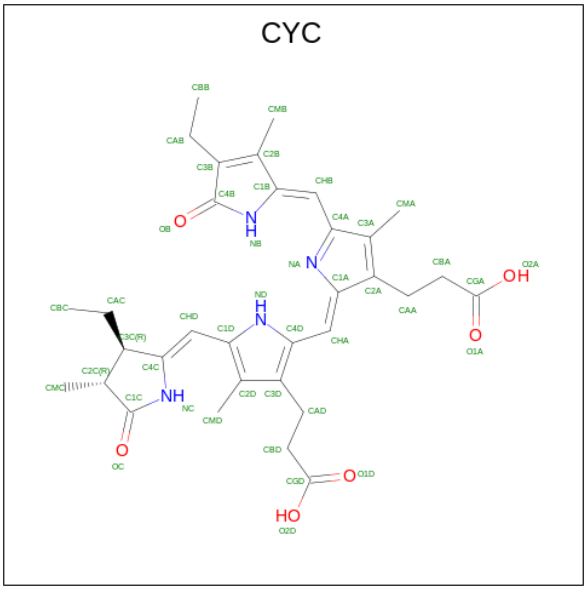
- Molecule 9 is a protein called Allophycocyanin subunit beta-18.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Q3	169	Total	C	N	O	S	0	0
			1314	825	225	257	7		
9	g3	169	Total	C	N	O	S	0	0
			1314	825	225	257	7		

- Molecule 10 is a protein called Allophycocyanin subunit alpha-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	V3	160	Total	C	N	O	S	0	0
			1235	782	213	235	5		
10	m3	160	Total	C	N	O	S	0	0
			1235	782	213	235	5		

- Molecule 11 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
11	A1	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	A1	1	Total	C	N	O	0
			43	33	4	6	
11	B1	1	Total	C	N	O	0
			43	33	4	6	
11	C1	1	Total	C	N	O	0
			43	33	4	6	
11	C1	1	Total	C	N	O	0
			43	33	4	6	
11	D1	1	Total	C	N	O	0
			43	33	4	6	
11	F1	1	Total	C	N	O	0
			43	33	4	6	
11	G1	1	Total	C	N	O	0
			43	33	4	6	
11	G1	1	Total	C	N	O	0
			43	33	4	6	
11	H1	1	Total	C	N	O	0
			43	33	4	6	
11	I1	1	Total	C	N	O	0
			43	33	4	6	
11	I1	1	Total	C	N	O	0
			43	33	4	6	
11	J1	1	Total	C	N	O	0
			43	33	4	6	
11	K1	1	Total	C	N	O	0
			43	33	4	6	
11	K1	1	Total	C	N	O	0
			43	33	4	6	
11	L1	1	Total	C	N	O	0
			43	33	4	6	
11	M1	1	Total	C	N	O	0
			43	33	4	6	
11	M1	1	Total	C	N	O	0
			43	33	4	6	
11	N1	1	Total	C	N	O	0
			43	33	4	6	
11	O1	1	Total	C	N	O	0
			43	33	4	6	
11	P1	1	Total	C	N	O	0
			43	33	4	6	
11	P1	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	Q1	1	Total	C	N	O	0
			43	33	4	6	
11	R1	1	Total	C	N	O	0
			43	33	4	6	
11	R1	1	Total	C	N	O	0
			43	33	4	6	
11	S1	1	Total	C	N	O	0
			43	33	4	6	
11	T1	1	Total	C	N	O	0
			43	33	4	6	
11	U1	1	Total	C	N	O	0
			43	33	4	6	
11	U1	1	Total	C	N	O	0
			43	33	4	6	
11	V1	1	Total	C	N	O	0
			43	33	4	6	
11	V1	1	Total	C	N	O	0
			43	33	4	6	
11	X1	1	Total	C	N	O	0
			43	33	4	6	
11	X1	1	Total	C	N	O	0
			43	33	4	6	
11	X1	1	Total	C	N	O	0
			43	33	4	6	
11	Z1	1	Total	C	N	O	0
			43	33	4	6	
11	Z1	1	Total	C	N	O	0
			43	33	4	6	
11	A2	1	Total	C	N	O	0
			43	33	4	6	
11	B2	1	Total	C	N	O	0
			43	33	4	6	
11	C2	1	Total	C	N	O	0
			43	33	4	6	
11	C2	1	Total	C	N	O	0
			43	33	4	6	
11	D2	1	Total	C	N	O	0
			43	33	4	6	
11	E2	1	Total	C	N	O	0
			43	33	4	6	
11	E2	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	E2	1	Total	C	N	O	0
			43	33	4	6	
11	G2	1	Total	C	N	O	0
			43	33	4	6	
11	H2	1	Total	C	N	O	0
			43	33	4	6	
11	I2	1	Total	C	N	O	0
			43	33	4	6	
11	I2	1	Total	C	N	O	0
			43	33	4	6	
11	I2	1	Total	C	N	O	0
			43	33	4	6	
11	K2	1	Total	C	N	O	0
			43	33	4	6	
11	K2	1	Total	C	N	O	0
			43	33	4	6	
11	K2	1	Total	C	N	O	0
			43	33	4	6	
11	M2	1	Total	C	N	O	0
			43	33	4	6	
11	M2	1	Total	C	N	O	0
			43	33	4	6	
11	N2	1	Total	C	N	O	0
			43	33	4	6	
11	N2	1	Total	C	N	O	0
			43	33	4	6	
11	P2	1	Total	C	N	O	0
			43	33	4	6	
11	P2	1	Total	C	N	O	0
			43	33	4	6	
11	Q2	1	Total	C	N	O	0
			43	33	4	6	
11	R2	1	Total	C	N	O	0
			43	33	4	6	
11	S2	1	Total	C	N	O	0
			43	33	4	6	
11	T2	1	Total	C	N	O	0
			43	33	4	6	
11	T2	1	Total	C	N	O	0
			43	33	4	6	
11	V2	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	V2	1	Total	C	N	O	0
			43	33	4	6	
11	W2	1	Total	C	N	O	0
			43	33	4	6	
11	X2	1	Total	C	N	O	0
			43	33	4	6	
11	X2	1	Total	C	N	O	0
			43	33	4	6	
11	X2	1	Total	C	N	O	0
			43	33	4	6	
11	Z2	1	Total	C	N	O	0
			43	33	4	6	
11	Z2	1	Total	C	N	O	0
			43	33	4	6	
11	Z2	1	Total	C	N	O	0
			43	33	4	6	
11	03	1	Total	C	N	O	0
			43	33	4	6	
11	03	1	Total	C	N	O	0
			43	33	4	6	
11	13	1	Total	C	N	O	0
			43	33	4	6	
11	13	1	Total	C	N	O	0
			43	33	4	6	
11	13	1	Total	C	N	O	0
			43	33	4	6	
11	13	1	Total	C	N	O	0
			43	33	4	6	
11	G3	1	Total	C	N	O	0
			43	33	4	6	
11	H3	1	Total	C	N	O	0
			43	33	4	6	
11	I3	1	Total	C	N	O	0
			43	33	4	6	
11	J3	1	Total	C	N	O	0
			43	33	4	6	
11	K3	1	Total	C	N	O	0
			43	33	4	6	
11	M3	1	Total	C	N	O	0
			43	33	4	6	
11	N3	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	O3	1	Total	C	N	O	0
			43	33	4	6	
11	P3	1	Total	C	N	O	0
			43	33	4	6	
11	Q3	1	Total	C	N	O	0
			43	33	4	6	
11	R3	1	Total	C	N	O	0
			43	33	4	6	
11	S3	1	Total	C	N	O	0
			43	33	4	6	
11	T3	1	Total	C	N	O	0
			43	33	4	6	
11	U3	1	Total	C	N	O	0
			43	33	4	6	
11	V3	1	Total	C	N	O	0
			43	33	4	6	
11	W3	1	Total	C	N	O	0
			43	33	4	6	
11	X3	1	Total	C	N	O	0
			43	33	4	6	
11	Z3	1	Total	C	N	O	0
			43	33	4	6	
11	b3	1	Total	C	N	O	0
			43	33	4	6	
11	c3	1	Total	C	N	O	0
			43	33	4	6	
11	d3	1	Total	C	N	O	0
			43	33	4	6	
11	e3	1	Total	C	N	O	0
			43	33	4	6	
11	f3	1	Total	C	N	O	0
			43	33	4	6	
11	g3	1	Total	C	N	O	0
			43	33	4	6	
11	i3	1	Total	C	N	O	0
			43	33	4	6	
11	j3	1	Total	C	N	O	0
			43	33	4	6	
11	k3	1	Total	C	N	O	0
			43	33	4	6	
11	l3	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	m3	1	Total	C	N	O	0
			43	33	4	6	
11	n3	1	Total	C	N	O	0
			43	33	4	6	
11	o3	1	Total	C	N	O	0
			43	33	4	6	
11	p3	1	Total	C	N	O	0
			43	33	4	6	
11	q3	1	Total	C	N	O	0
			43	33	4	6	
11	r3	1	Total	C	N	O	0
			43	33	4	6	
11	s3	1	Total	C	N	O	0
			43	33	4	6	
11	t3	1	Total	C	N	O	0
			43	33	4	6	
11	u3	1	Total	C	N	O	0
			43	33	4	6	
11	v3	1	Total	C	N	O	0
			43	33	4	6	
11	w3	1	Total	C	N	O	0
			43	33	4	6	
11	x3	1	Total	C	N	O	0
			43	33	4	6	
11	y3	1	Total	C	N	O	0
			43	33	4	6	
11	z3	1	Total	C	N	O	0
			43	33	4	6	
11	A4	1	Total	C	N	O	0
			43	33	4	6	
11	C4	1	Total	C	N	O	0
			43	33	4	6	
11	D4	1	Total	C	N	O	0
			43	33	4	6	
11	E4	1	Total	C	N	O	0
			43	33	4	6	
11	E4	1	Total	C	N	O	0
			43	33	4	6	
11	E4	1	Total	C	N	O	0
			43	33	4	6	
11	F4	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	G4	1	Total	C	N	O	0
			43	33	4	6	
11	G4	1	Total	C	N	O	0
			43	33	4	6	
11	I4	1	Total	C	N	O	0
			43	33	4	6	
11	I4	1	Total	C	N	O	0
			43	33	4	6	
11	I4	1	Total	C	N	O	0
			43	33	4	6	
11	K4	1	Total	C	N	O	0
			43	33	4	6	
11	K4	1	Total	C	N	O	0
			43	33	4	6	
11	L4	1	Total	C	N	O	0
			43	33	4	6	
11	L4	1	Total	C	N	O	0
			43	33	4	6	
11	M4	1	Total	C	N	O	0
			43	33	4	6	
11	M4	1	Total	C	N	O	0
			43	33	4	6	
11	N4	1	Total	C	N	O	0
			43	33	4	6	
11	O4	1	Total	C	N	O	0
			43	33	4	6	
11	P4	1	Total	C	N	O	0
			43	33	4	6	
11	P4	1	Total	C	N	O	0
			43	33	4	6	
11	P4	1	Total	C	N	O	0
			43	33	4	6	
11	R4	1	Total	C	N	O	0
			43	33	4	6	
11	S4	1	Total	C	N	O	0
			43	33	4	6	
11	T4	1	Total	C	N	O	0
			43	33	4	6	
11	T4	1	Total	C	N	O	0
			43	33	4	6	
11	U4	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	V4	1	Total	C	N	O	0
			43	33	4	6	
11	V4	1	Total	C	N	O	0
			43	33	4	6	
11	W4	1	Total	C	N	O	0
			43	33	4	6	
11	X4	1	Total	C	N	O	0
			43	33	4	6	
11	X4	1	Total	C	N	O	0
			43	33	4	6	
11	Y4	1	Total	C	N	O	0
			43	33	4	6	
11	Z4	1	Total	C	N	O	0
			43	33	4	6	
11	Z4	1	Total	C	N	O	0
			43	33	4	6	
11	A5	1	Total	C	N	O	0
			43	33	4	6	
11	A5	1	Total	C	N	O	0
			43	33	4	6	
11	B5	1	Total	C	N	O	0
			43	33	4	6	
11	C5	1	Total	C	N	O	0
			43	33	4	6	
11	C5	1	Total	C	N	O	0
			43	33	4	6	
11	D5	1	Total	C	N	O	0
			43	33	4	6	
11	F5	1	Total	C	N	O	0
			43	33	4	6	
11	G5	1	Total	C	N	O	0
			43	33	4	6	
11	G5	1	Total	C	N	O	0
			43	33	4	6	
11	H5	1	Total	C	N	O	0
			43	33	4	6	
11	I5	1	Total	C	N	O	0
			43	33	4	6	
11	I5	1	Total	C	N	O	0
			43	33	4	6	
11	J5	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	K5	1	Total	C	N	O	0
			43	33	4	6	
11	K5	1	Total	C	N	O	0
			43	33	4	6	
11	L5	1	Total	C	N	O	0
			43	33	4	6	
11	M5	1	Total	C	N	O	0
			43	33	4	6	
11	M5	1	Total	C	N	O	0
			43	33	4	6	
11	N5	1	Total	C	N	O	0
			43	33	4	6	
11	O5	1	Total	C	N	O	0
			43	33	4	6	
11	P5	1	Total	C	N	O	0
			43	33	4	6	
11	P5	1	Total	C	N	O	0
			43	33	4	6	
11	Q5	1	Total	C	N	O	0
			43	33	4	6	
11	R5	1	Total	C	N	O	0
			43	33	4	6	
11	R5	1	Total	C	N	O	0
			43	33	4	6	
11	S5	1	Total	C	N	O	0
			43	33	4	6	
11	T5	1	Total	C	N	O	0
			43	33	4	6	
11	U5	1	Total	C	N	O	0
			43	33	4	6	
11	U5	1	Total	C	N	O	0
			43	33	4	6	
11	V5	1	Total	C	N	O	0
			43	33	4	6	
11	V5	1	Total	C	N	O	0
			43	33	4	6	
11	X5	1	Total	C	N	O	0
			43	33	4	6	
11	X5	1	Total	C	N	O	0
			43	33	4	6	
11	X5	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	Z5	1	Total	C	N	O	0
			43	33	4	6	
11	Z5	1	Total	C	N	O	0
			43	33	4	6	
11	A6	1	Total	C	N	O	0
			43	33	4	6	
11	B6	1	Total	C	N	O	0
			43	33	4	6	
11	C6	1	Total	C	N	O	0
			43	33	4	6	
11	C6	1	Total	C	N	O	0
			43	33	4	6	
11	C6	1	Total	C	N	O	0
			43	33	4	6	
11	E6	1	Total	C	N	O	0
			43	33	4	6	
11	E6	1	Total	C	N	O	0
			43	33	4	6	
11	F6	1	Total	C	N	O	0
			43	33	4	6	
11	G6	1	Total	C	N	O	0
			43	33	4	6	
11	H6	1	Total	C	N	O	0
			43	33	4	6	
11	I6	1	Total	C	N	O	0
			43	33	4	6	
11	I6	1	Total	C	N	O	0
			43	33	4	6	
11	J6	1	Total	C	N	O	0
			43	33	4	6	
11	K6	1	Total	C	N	O	0
			43	33	4	6	
11	K6	1	Total	C	N	O	0
			43	33	4	6	
11	L6	1	Total	C	N	O	0
			43	33	4	6	
11	M6	1	Total	C	N	O	0
			43	33	4	6	
11	M6	1	Total	C	N	O	0
			43	33	4	6	
11	N6	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	N6	1	Total	C	N	O	0
			43	33	4	6	
11	O6	1	Total	C	N	O	0
			43	33	4	6	
11	P6	1	Total	C	N	O	0
			43	33	4	6	
11	P6	1	Total	C	N	O	0
			43	33	4	6	
11	Q6	1	Total	C	N	O	0
			43	33	4	6	
11	R6	1	Total	C	N	O	0
			43	33	4	6	
11	R6	1	Total	C	N	O	0
			43	33	4	6	
11	T6	1	Total	C	N	O	0
			43	33	4	6	
11	U6	1	Total	C	N	O	0
			43	33	4	6	
11	V6	1	Total	C	N	O	0
			43	33	4	6	
11	V6	1	Total	C	N	O	0
			43	33	4	6	
11	W6	1	Total	C	N	O	0
			43	33	4	6	
11	X6	1	Total	C	N	O	0
			43	33	4	6	
11	X6	1	Total	C	N	O	0
			43	33	4	6	
11	Y6	1	Total	C	N	O	0
			43	33	4	6	
11	Z6	1	Total	C	N	O	0
			43	33	4	6	
11	Z6	1	Total	C	N	O	0
			43	33	4	6	
11	A7	1	Total	C	N	O	0
			43	33	4	6	
11	B7	1	Total	C	N	O	0
			43	33	4	6	
11	C7	1	Total	C	N	O	0
			43	33	4	6	
11	D7	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	E7	1	Total	C	N	O	0
			43	33	4	6	
11	F7	1	Total	C	N	O	0
			43	33	4	6	
11	H7	1	Total	C	N	O	0
			43	33	4	6	
11	I7	1	Total	C	N	O	0
			43	33	4	6	
11	J7	1	Total	C	N	O	0
			43	33	4	6	
11	K7	1	Total	C	N	O	0
			43	33	4	6	
11	L7	1	Total	C	N	O	0
			43	33	4	6	
11	M7	1	Total	C	N	O	0
			43	33	4	6	
11	O7	1	Total	C	N	O	0
			43	33	4	6	
11	P7	1	Total	C	N	O	0
			43	33	4	6	
11	Q7	1	Total	C	N	O	0
			43	33	4	6	
11	R7	1	Total	C	N	O	0
			43	33	4	6	
11	S7	1	Total	C	N	O	0
			43	33	4	6	
11	T7	1	Total	C	N	O	0
			43	33	4	6	
11	V7	1	Total	C	N	O	0
			43	33	4	6	
11	W7	1	Total	C	N	O	0
			43	33	4	6	
11	X7	1	Total	C	N	O	0
			43	33	4	6	
11	Y7	1	Total	C	N	O	0
			43	33	4	6	
11	Z7	1	Total	C	N	O	0
			43	33	4	6	
11	a7	1	Total	C	N	O	0
			43	33	4	6	
11	A8	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
11	C8	1	Total	C	N	O	0
			43	33	4	6	
11	D8	1	Total	C	N	O	0
			43	33	4	6	
11	E8	1	Total	C	N	O	0
			43	33	4	6	
11	E8	1	Total	C	N	O	0
			43	33	4	6	
11	E8	1	Total	C	N	O	0
			43	33	4	6	
11	F8	1	Total	C	N	O	0
			43	33	4	6	
11	G8	1	Total	C	N	O	0
			43	33	4	6	
11	G8	1	Total	C	N	O	0
			43	33	4	6	
11	I8	1	Total	C	N	O	0
			43	33	4	6	
11	I8	1	Total	C	N	O	0
			43	33	4	6	
11	I8	1	Total	C	N	O	0
			43	33	4	6	
11	K8	1	Total	C	N	O	0
			43	33	4	6	
11	K8	1	Total	C	N	O	0
			43	33	4	6	
11	L8	1	Total	C	N	O	0
			43	33	4	6	
11	L8	1	Total	C	N	O	0
			43	33	4	6	
11	M8	1	Total	C	N	O	0
			43	33	4	6	
11	M8	1	Total	C	N	O	0
			43	33	4	6	
11	N8	1	Total	C	N	O	0
			43	33	4	6	
11	O8	1	Total	C	N	O	0
			43	33	4	6	
11	P8	1	Total	C	N	O	0
			43	33	4	6	
11	P8	1	Total	C	N	O	0
			43	33	4	6	

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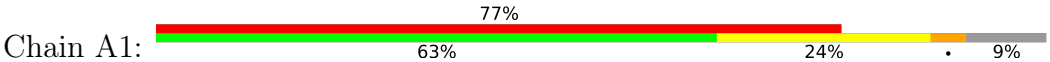
Mol	Chain	Residues	Atoms				AltConf
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			43	33	4	6	
11	R8	1	Total	C	N	O	0
			43	33	4	6	
11	S8	1	Total	C	N	O	0
			43	33	4	6	
11	T8	1	Total	C	N	O	0
			43	33	4	6	
11	T8	1	Total	C	N	O	0
			43	33	4	6	
11	U8	1	Total	C	N	O	0
			43	33	4	6	
11	V8	1	Total	C	N	O	0
			43	33	4	6	
11	V8	1	Total	C	N	O	0
			43	33	4	6	
11	W8	1	Total	C	N	O	0
			43	33	4	6	
11	X8	1	Total	C	N	O	0
			43	33	4	6	
11	X8	1	Total	C	N	O	0
			43	33	4	6	
11	Y8	1	Total	C	N	O	0
			43	33	4	6	
11	Z8	1	Total	C	N	O	0
			43	33	4	6	
11	Z8	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 CpcG

Chain A1:

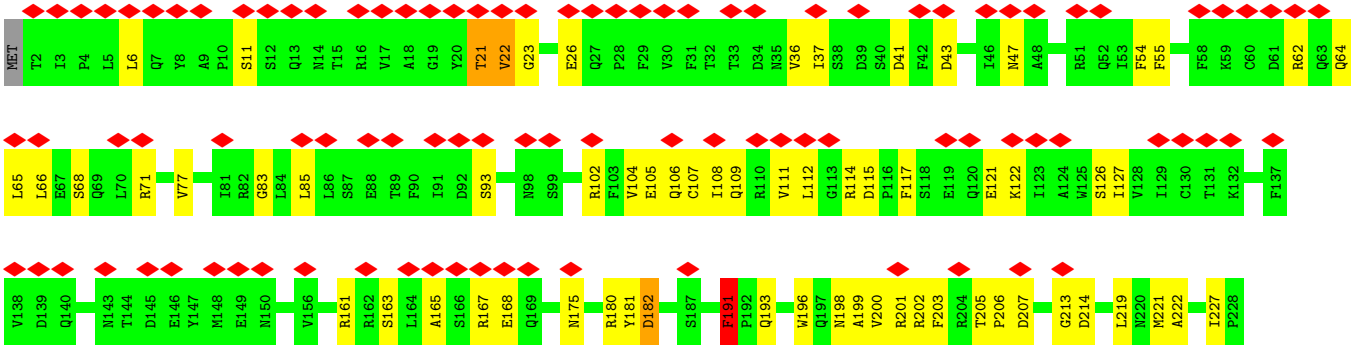


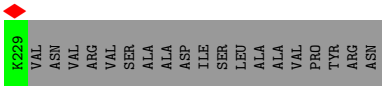


• Molecule 1: Phycobilisome rod-core linker polypeptide CpcG

Chain A2:



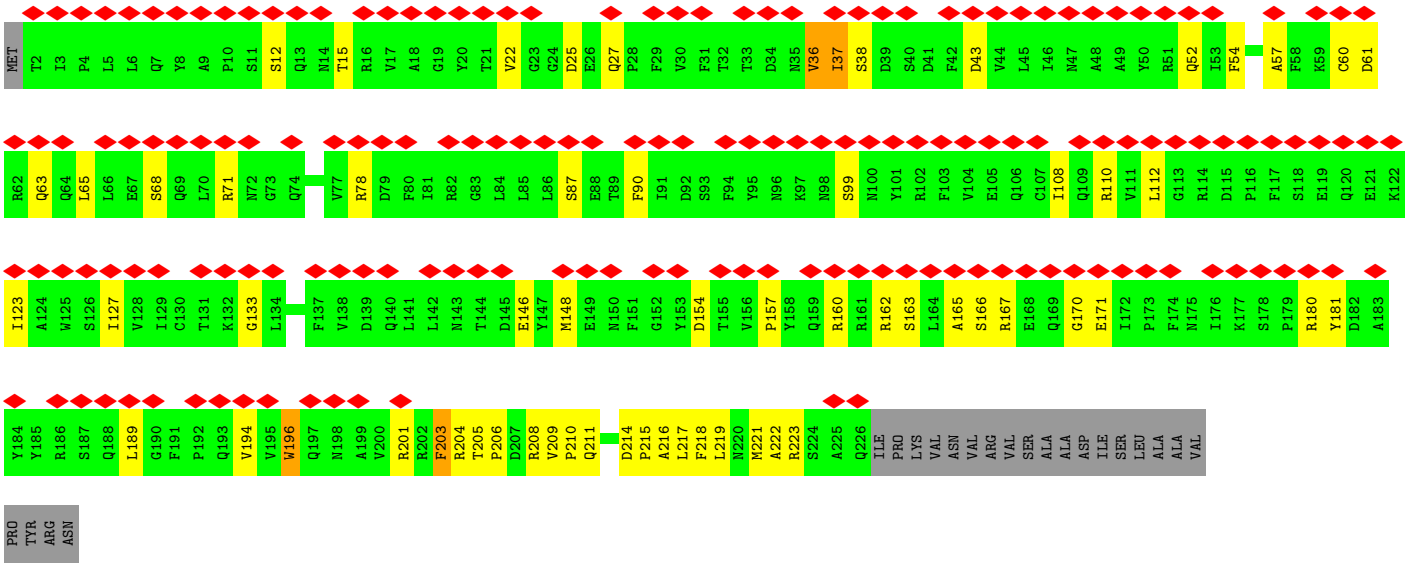




• Molecule 1: Phycobilisome rod-core linker polypeptide CpcG

Chain A4:

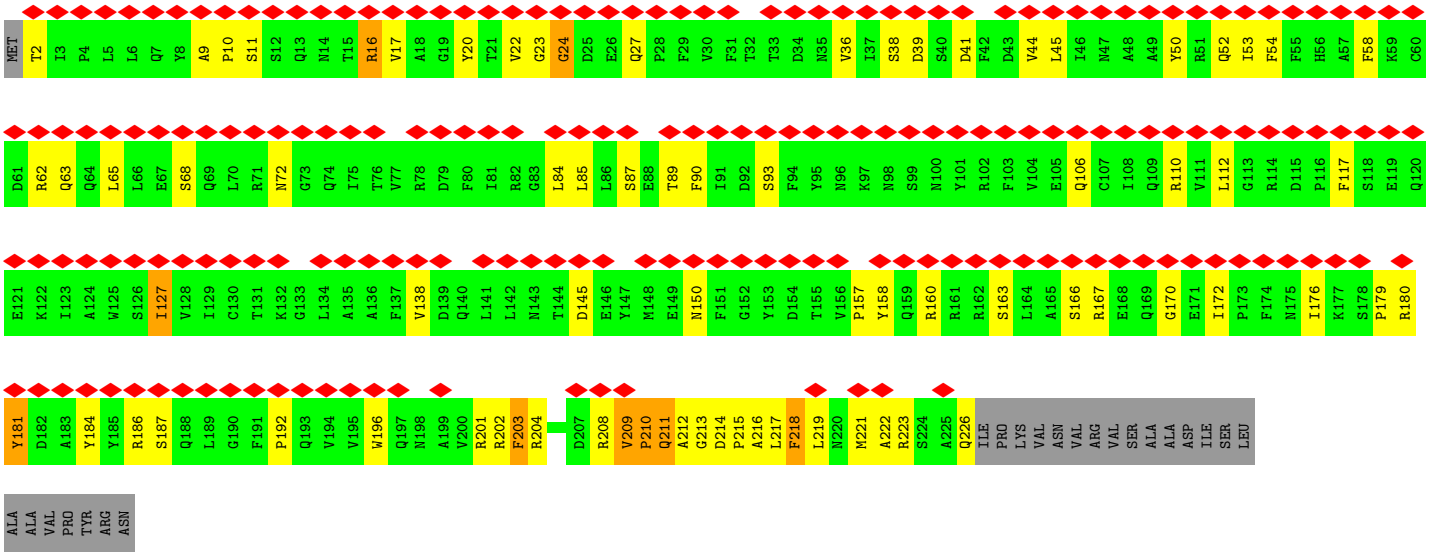




• Molecule 1: Phycobilisome rod-core linker polypeptide CpcG

Chain A5:

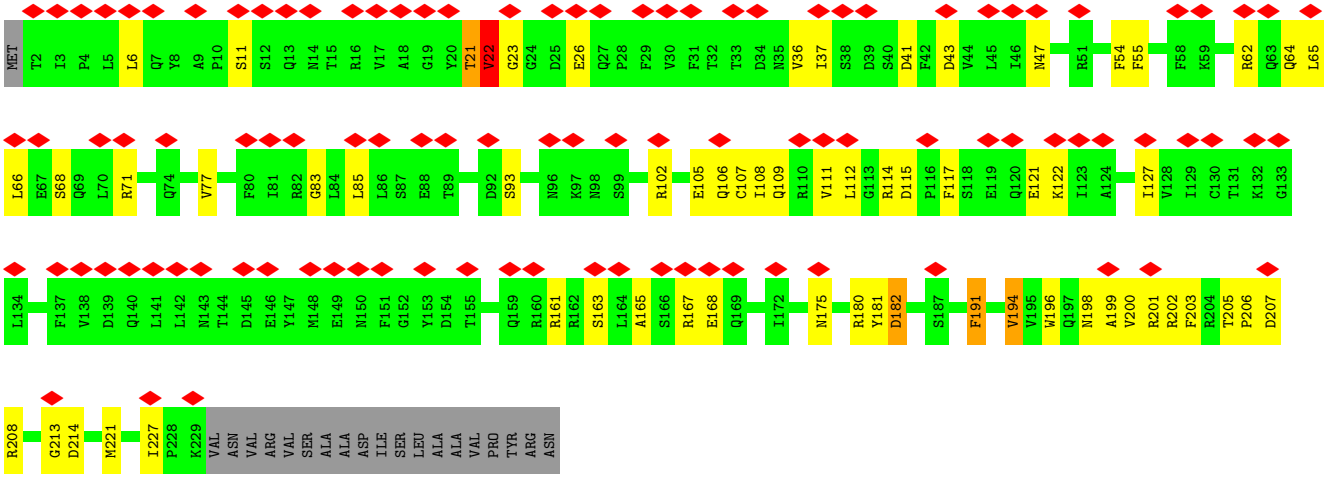




• Molecule 1: Phycobilisome rod-core linker polypeptide CpcG

Chain A6:

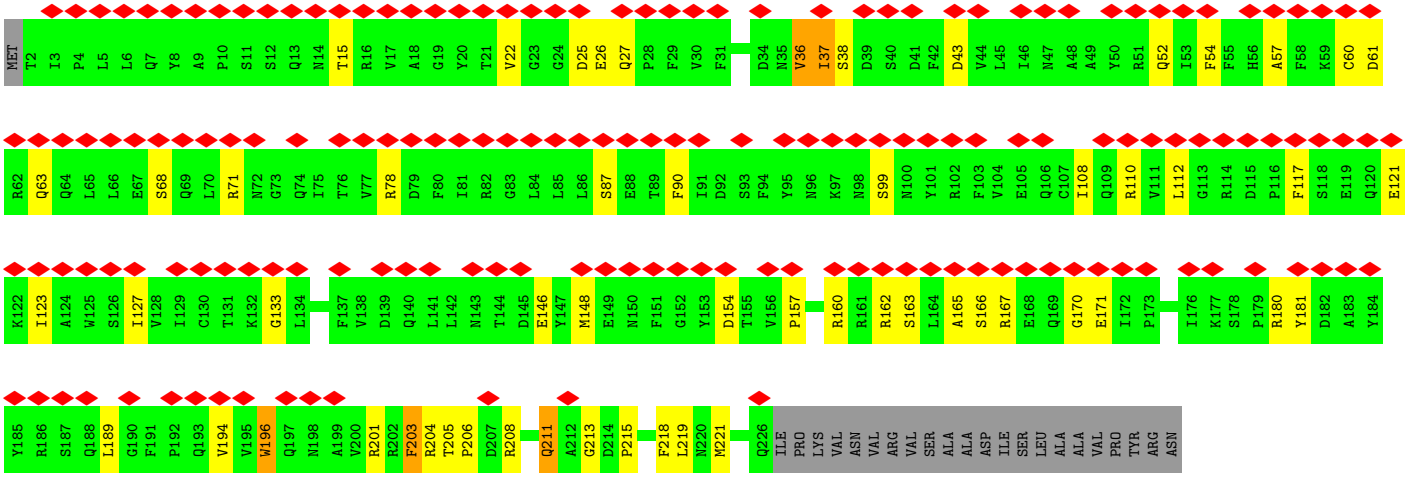




• Molecule 1: Phycobilisome rod-core linker polypeptide CpcG

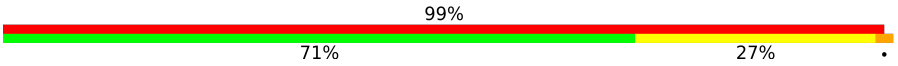
Chain A8:





• Molecule 2: C-phycocyanin subunit alpha

Chain B1:

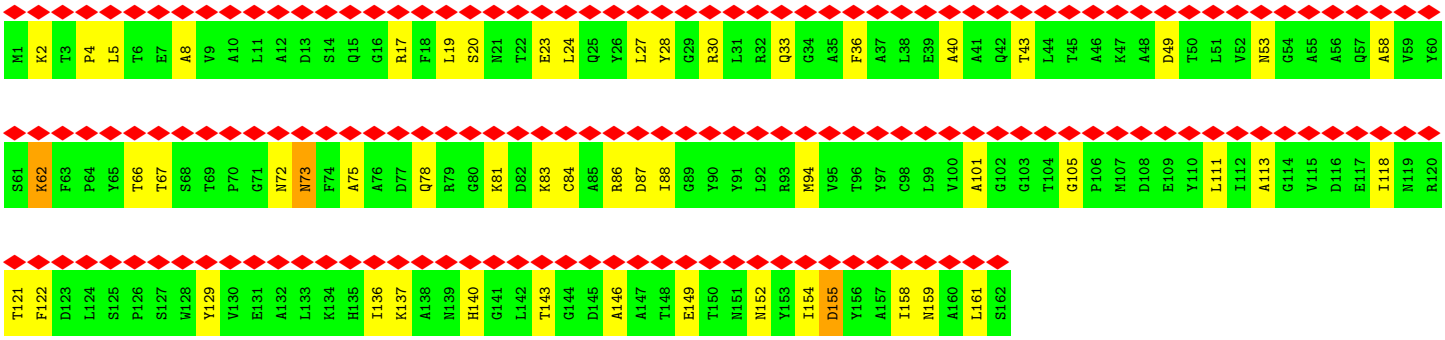




• Molecule 2: C-phycocyanin subunit alpha

Chain D1:

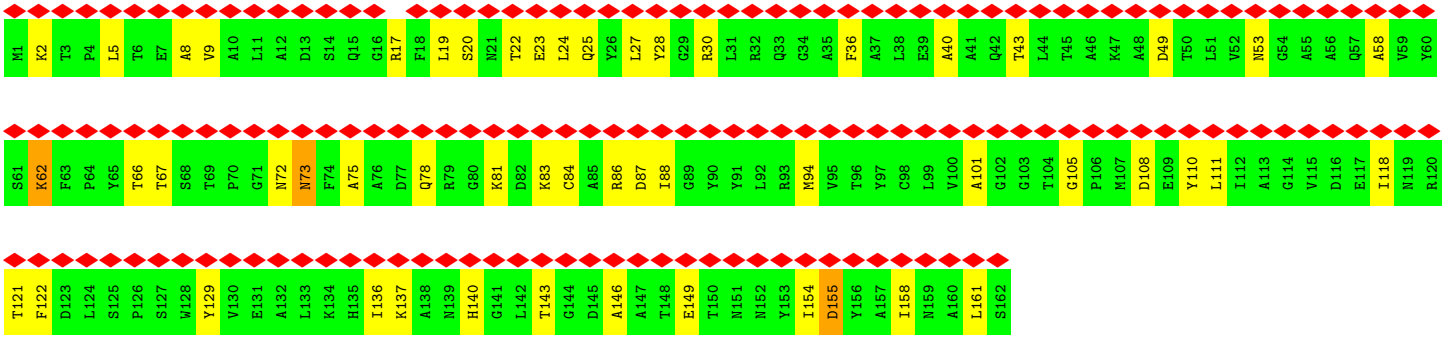




• Molecule 2: C-phycocyanin subunit alpha

Chain F1:

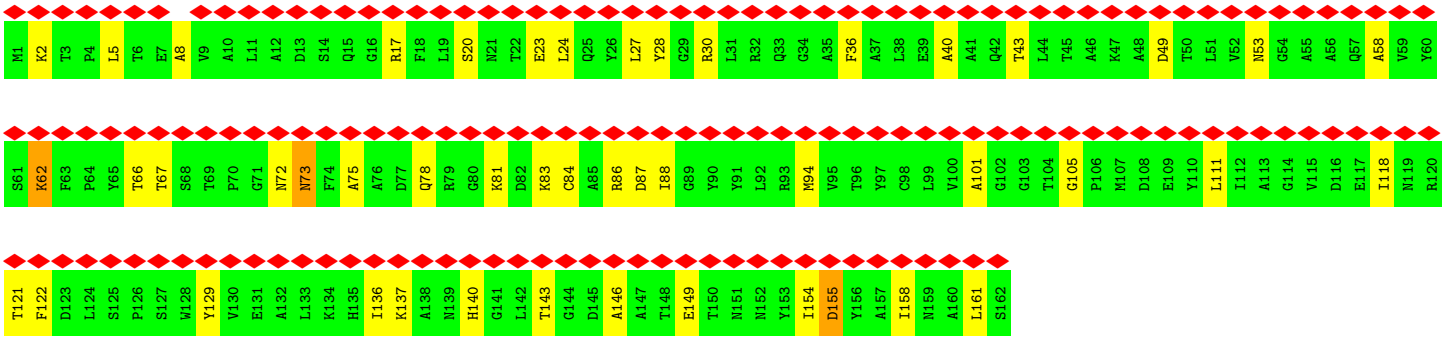




• Molecule 2: C-phycocyanin subunit alpha

Chain H1:

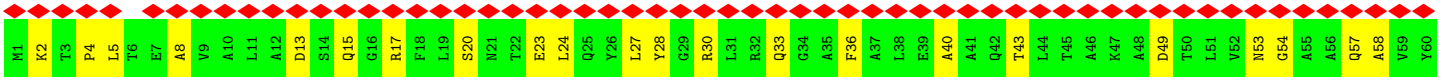


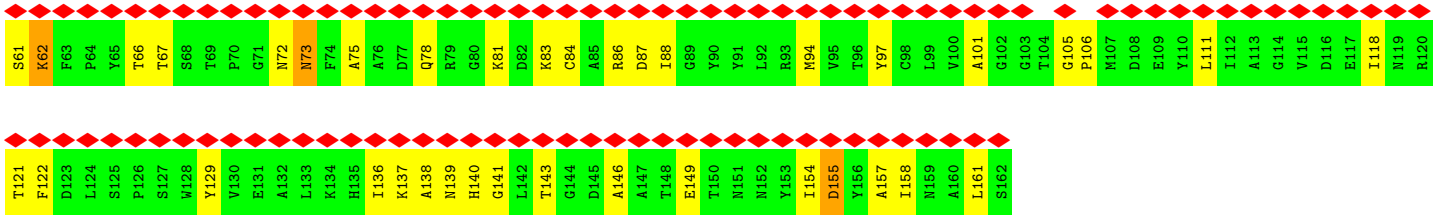


• Molecule 2: C-phycocyanin subunit alpha

Chain J1:

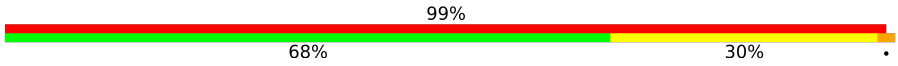


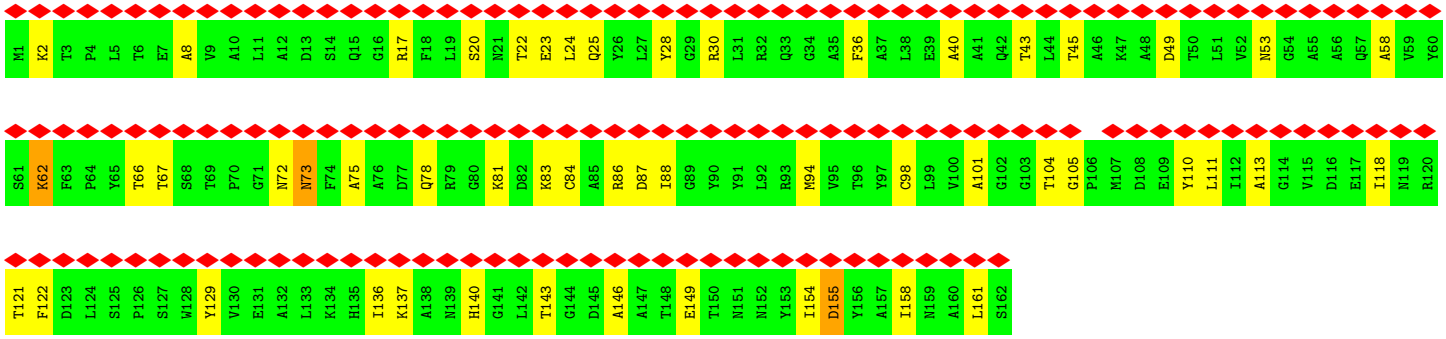




• Molecule 2: C-phycocyanin subunit alpha

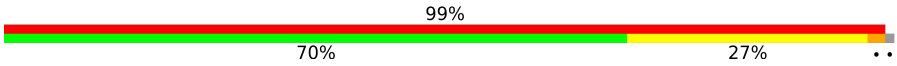
Chain L1:

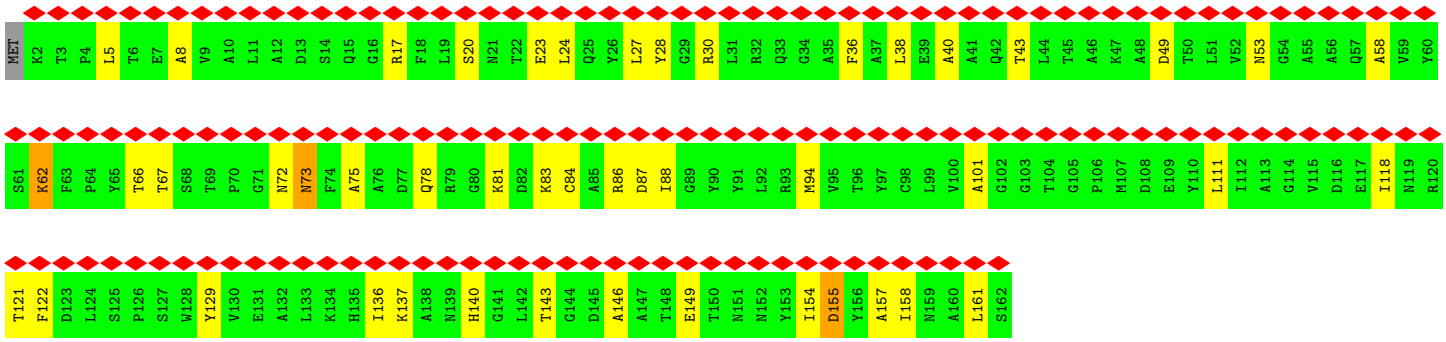




• Molecule 2: C-phycocyanin subunit alpha

Chain O1:

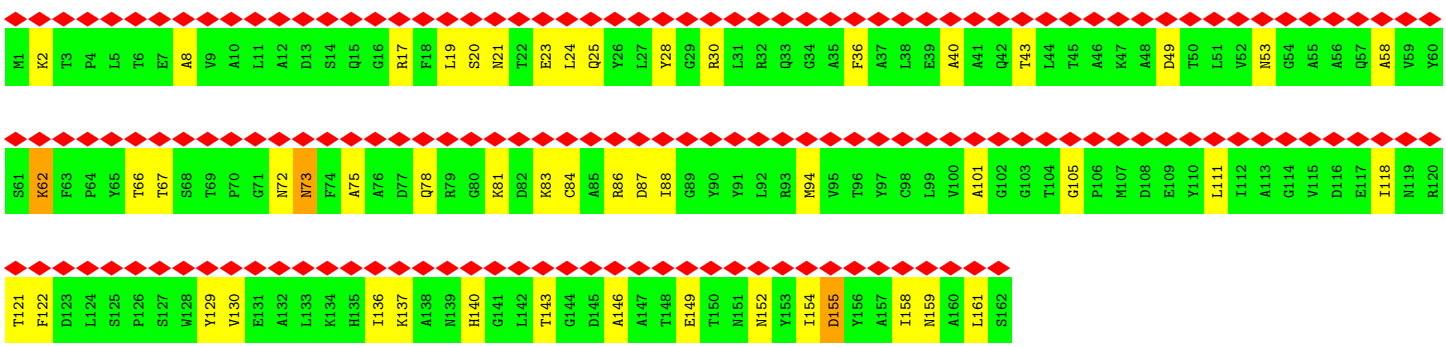




• Molecule 2: C-phycocyanin subunit alpha

Chain Q1:





• Molecule 2: C-phycocyanin subunit alpha

Chain S1:





• Molecule 2: C-phycocyanin subunit alpha

Chain U1:

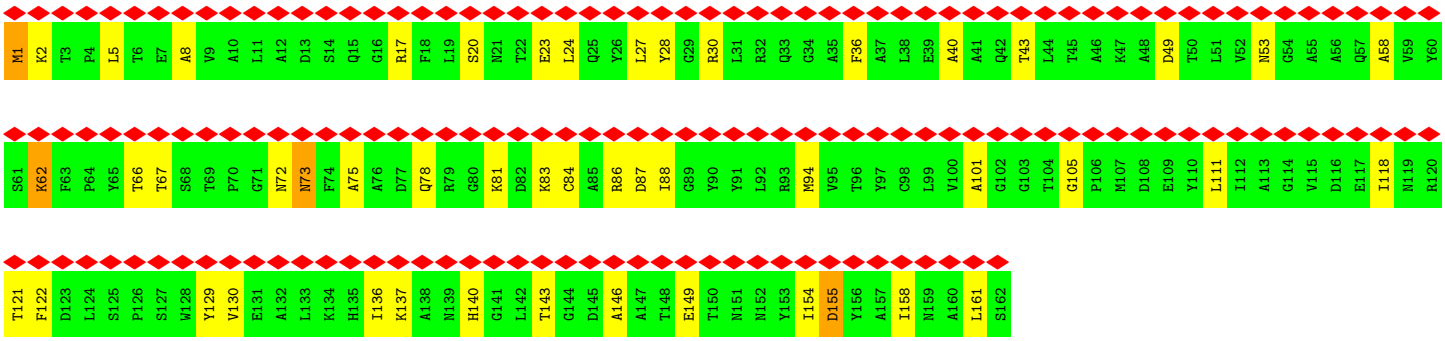




• Molecule 2: C-phycocyanin subunit alpha

Chain W1:

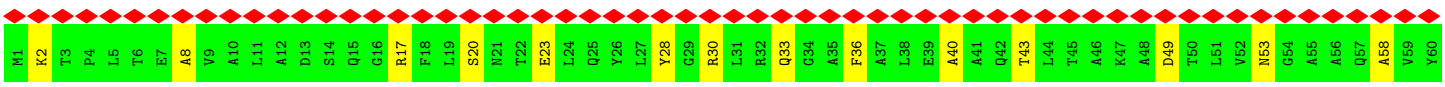


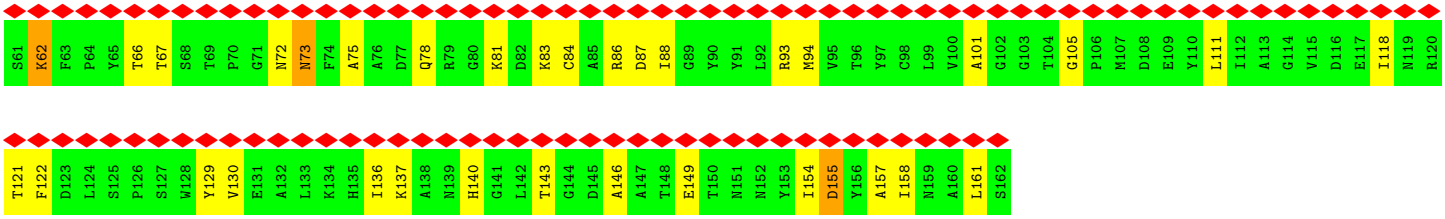


• Molecule 2: C-phycocyanin subunit alpha

Chain Y1:



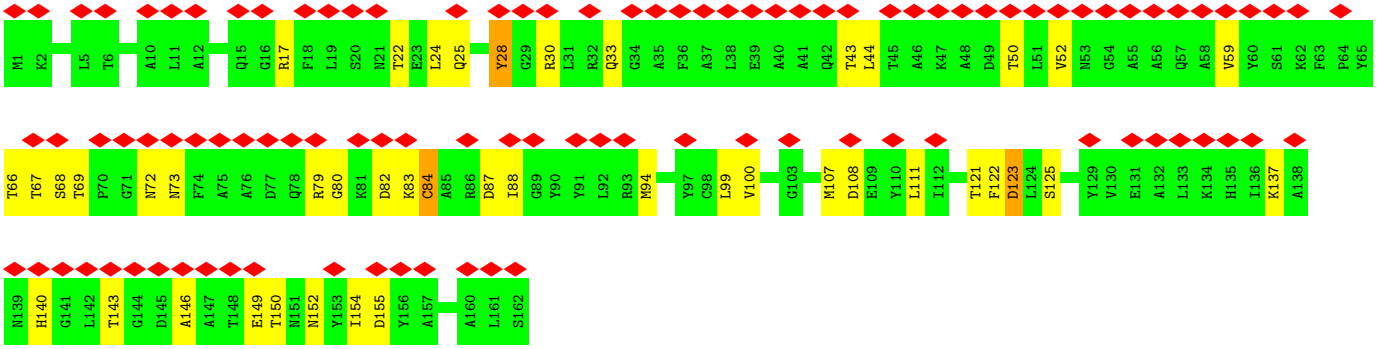




• Molecule 2: C-phycocyanin subunit alpha

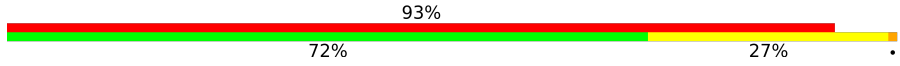
Chain B2:

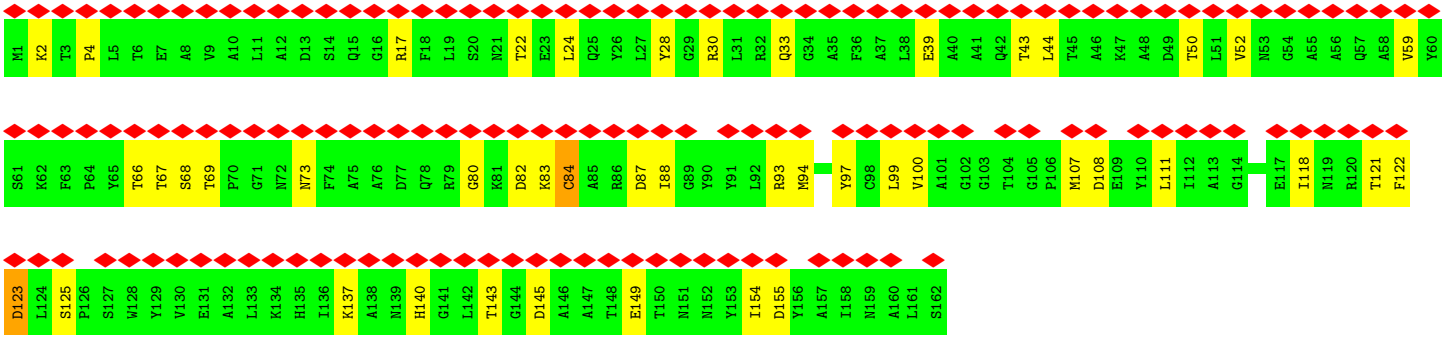




• Molecule 2: C-phycocyanin subunit alpha

Chain D2:

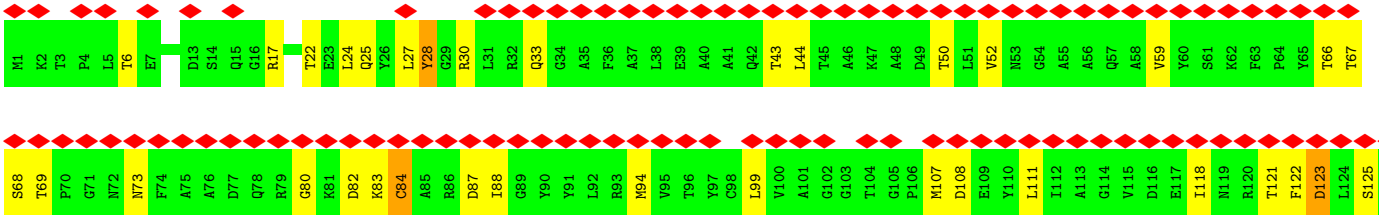


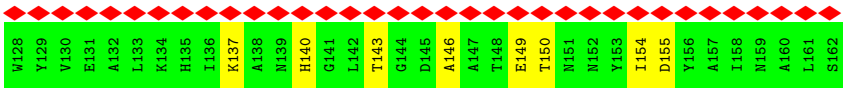


• Molecule 2: C-phycocyanin subunit alpha

Chain F2:

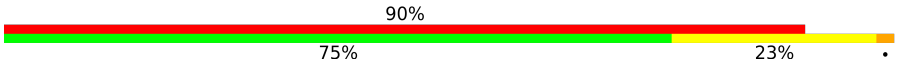




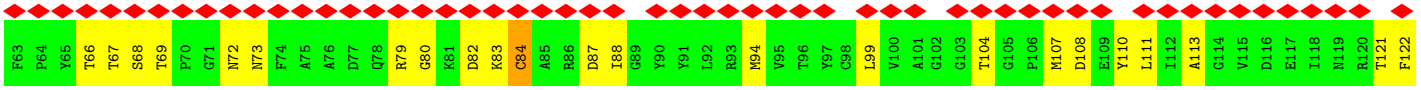


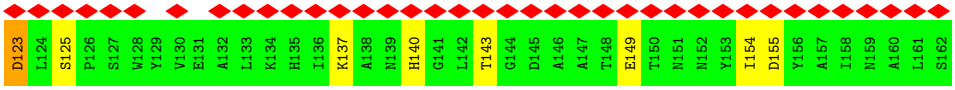
• Molecule 2: C-phycocyanin subunit alpha

Chain H2:





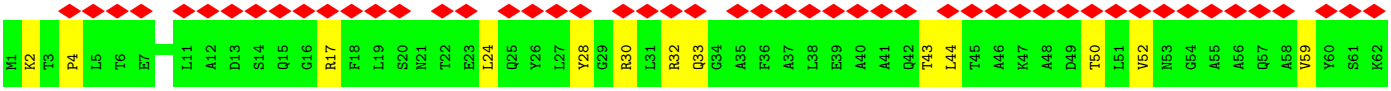




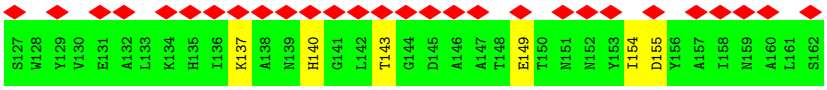
• Molecule 2: C-phycocyanin subunit alpha

Chain J2:



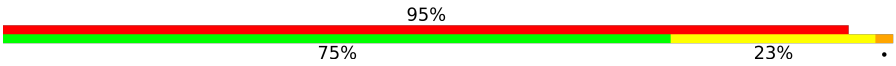


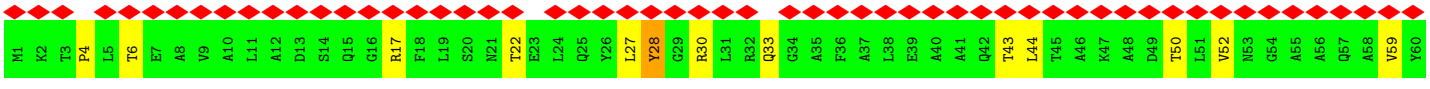


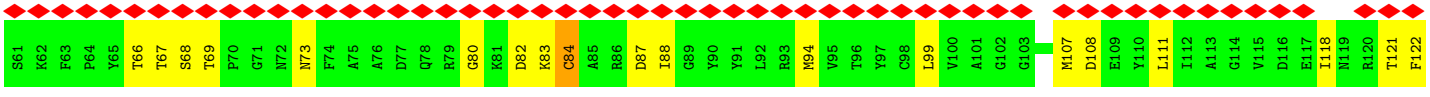


• Molecule 2: C-phycocyanin subunit alpha

Chain L2:



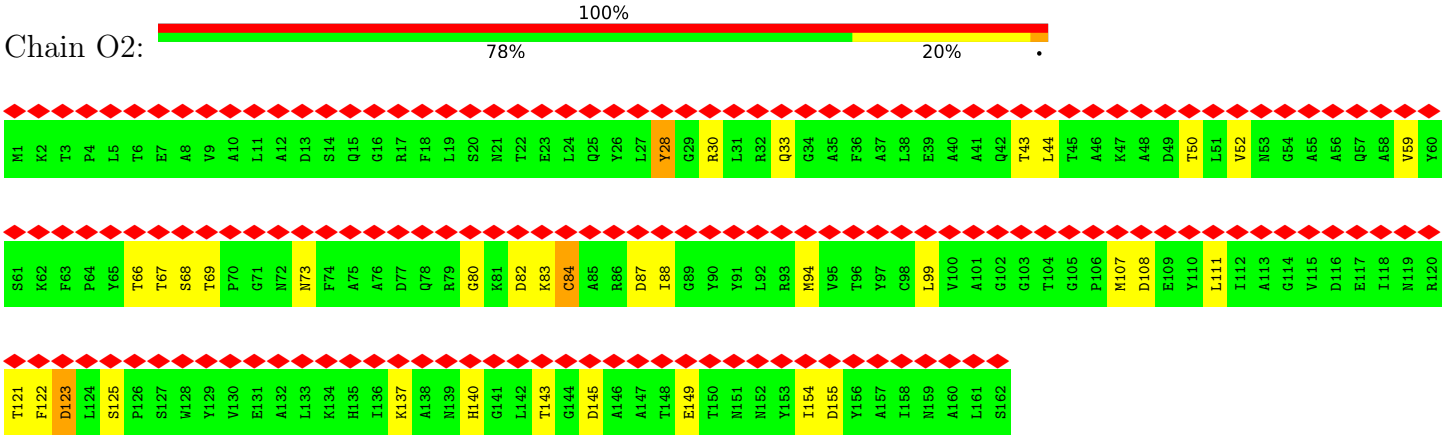






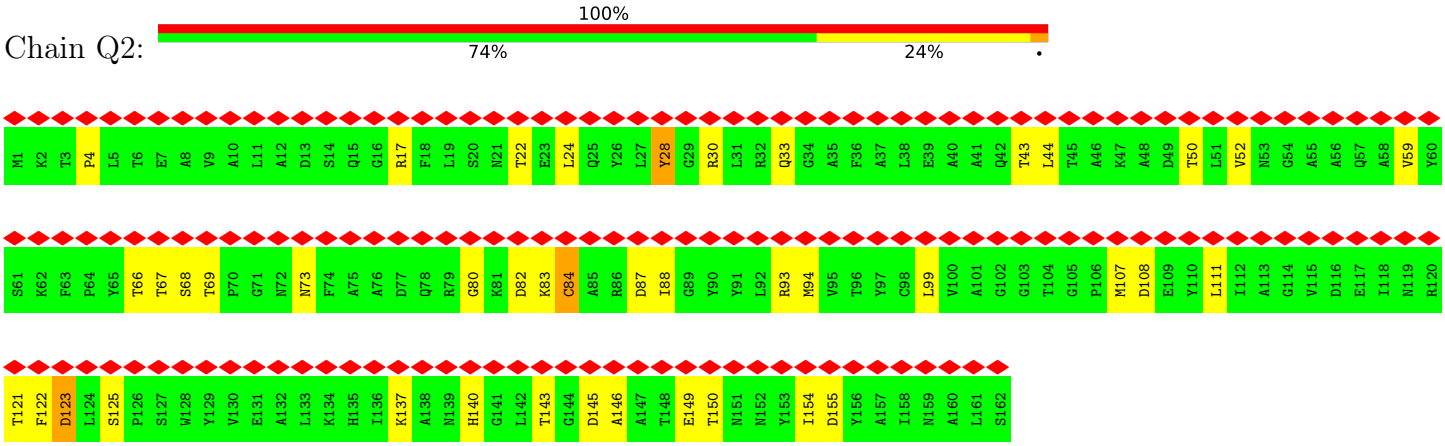
• Molecule 2: C-phycocyanin subunit alpha

Chain O2:



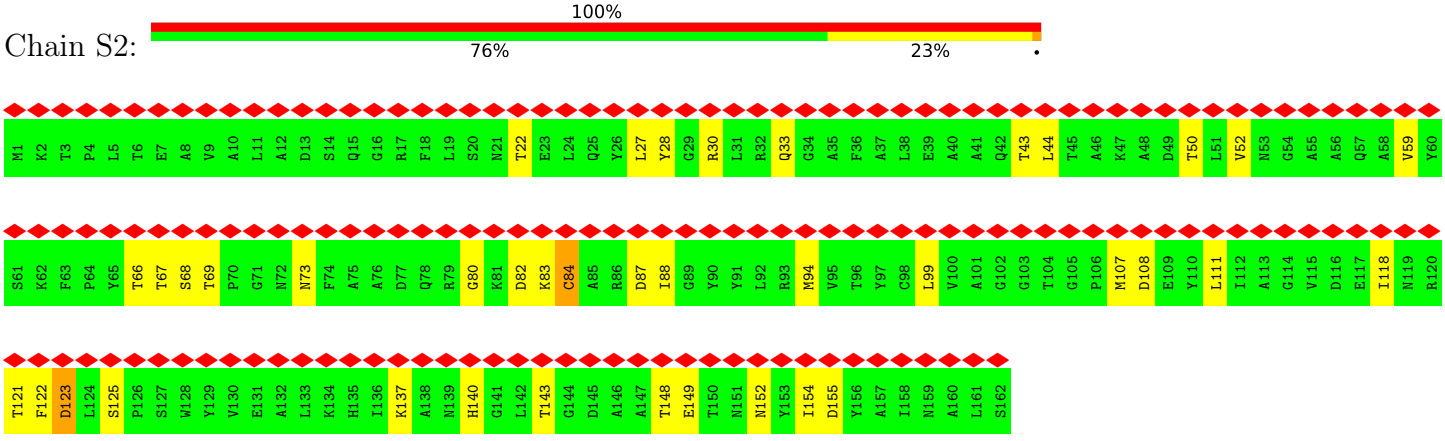
• Molecule 2: C-phycocyanin subunit alpha

Chain Q2:



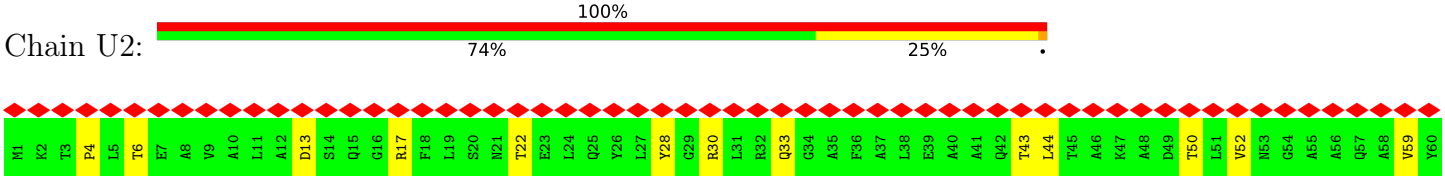
• Molecule 2: C-phycocyanin subunit alpha

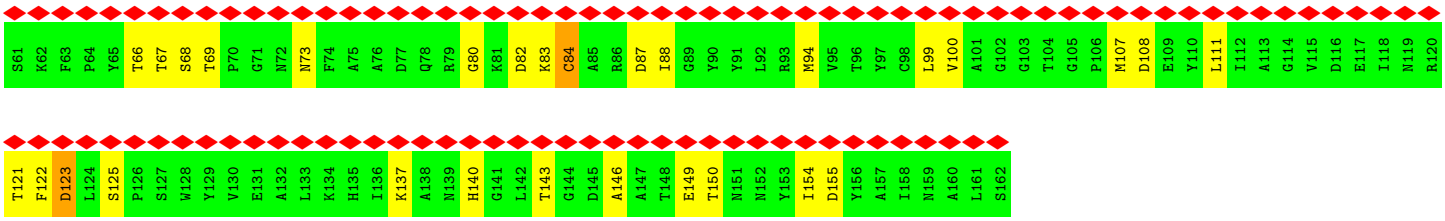
Chain S2:



• Molecule 2: C-phycocyanin subunit alpha

Chain U2:





• Molecule 2: C-phycocyanin subunit alpha

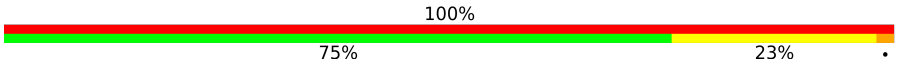
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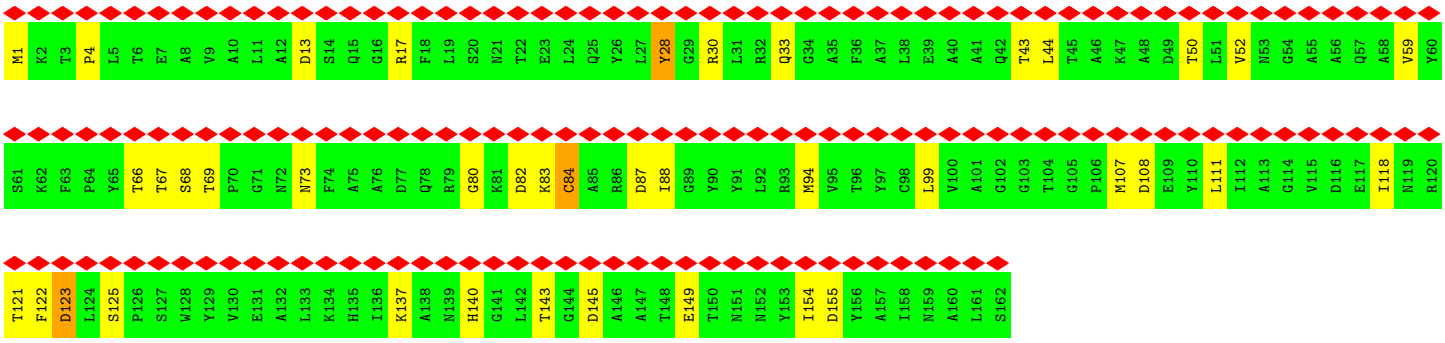




• Molecule 2: C-phycocyanin subunit alpha

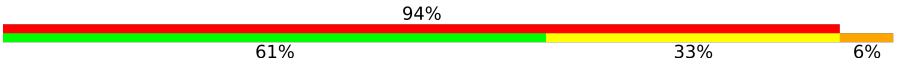
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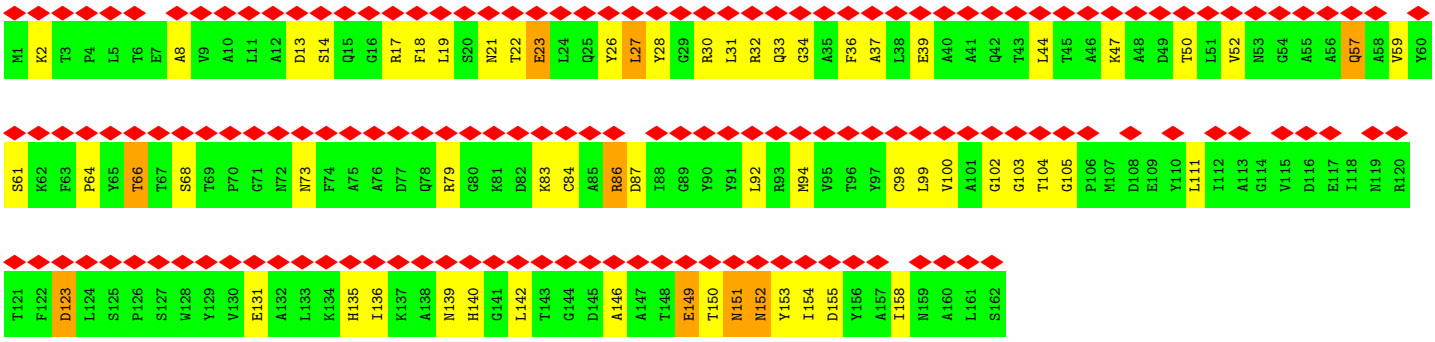




• Molecule 2: C-phycocyanin subunit alpha

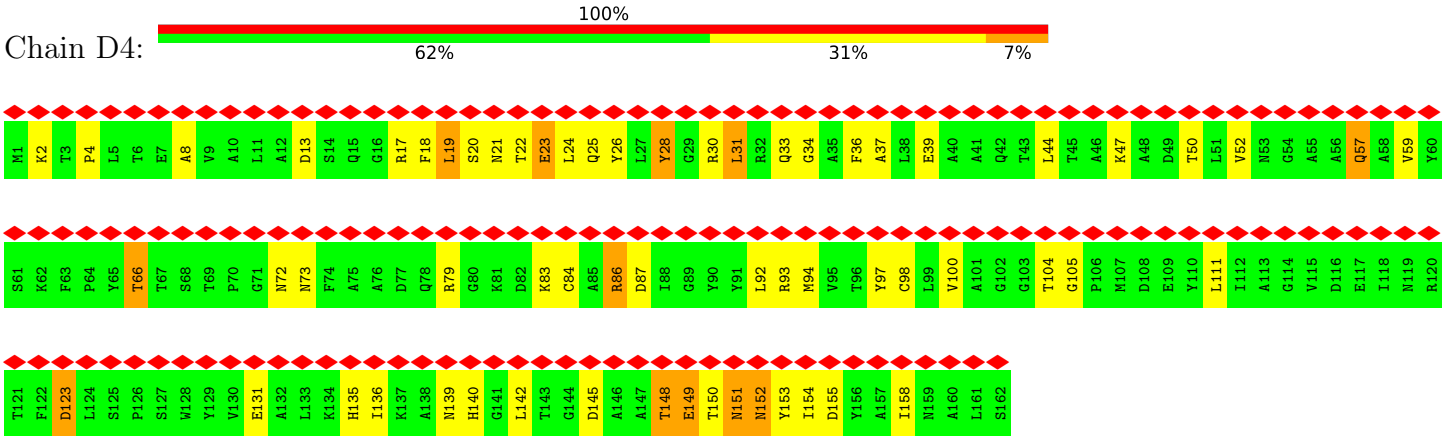
Chain B4:





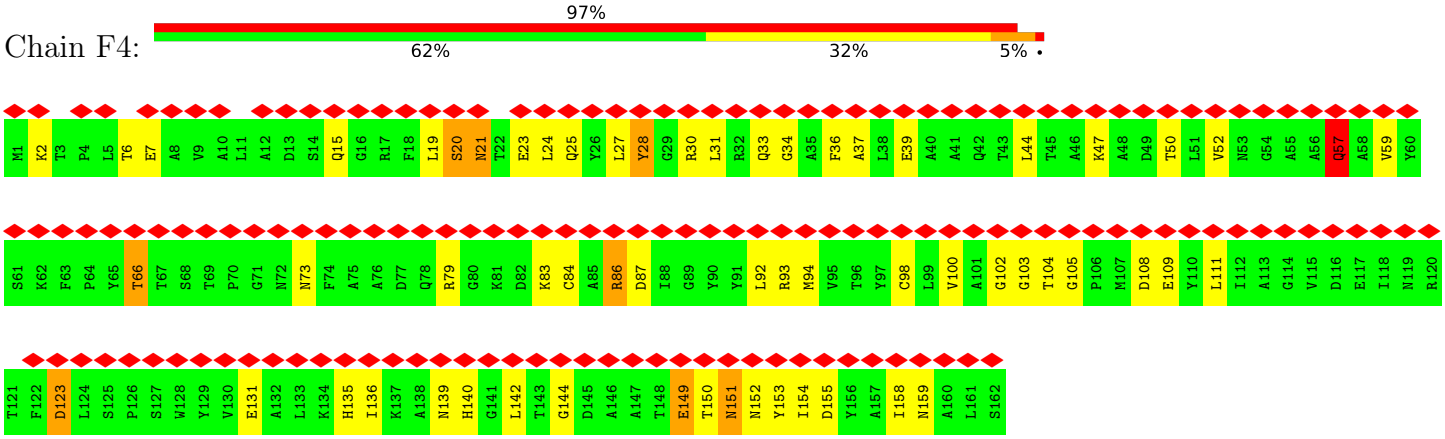
• Molecule 2: C-phycocyanin subunit alpha

Chain D4:



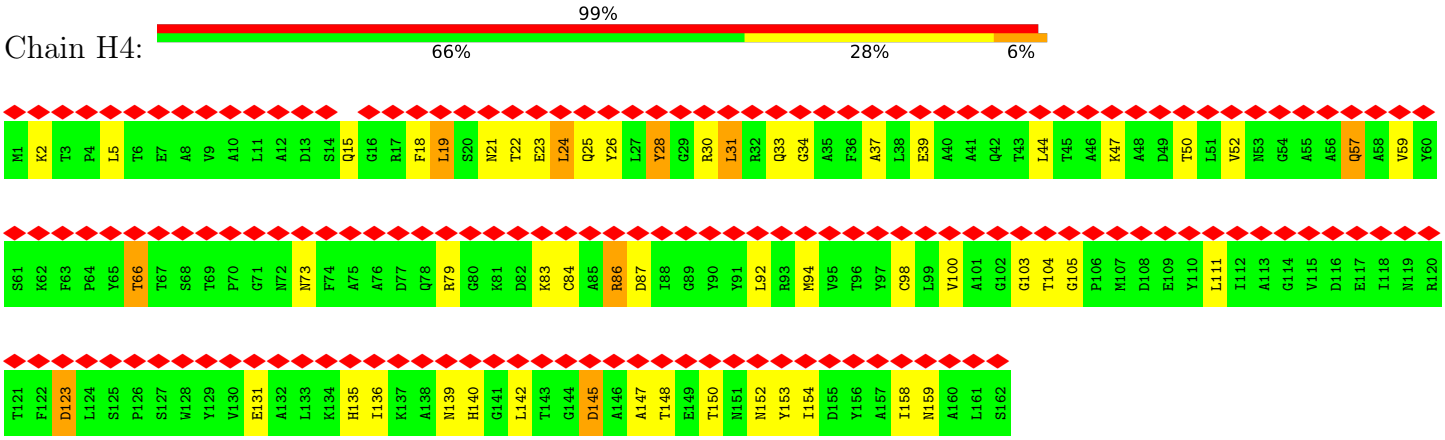
• Molecule 2: C-phycocyanin subunit alpha

Chain F4:



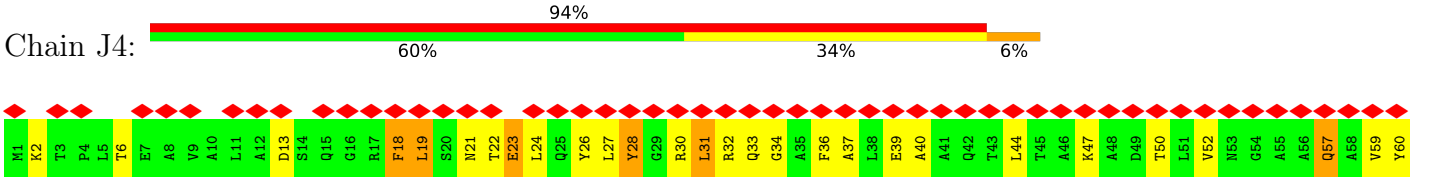
• Molecule 2: C-phycocyanin subunit alpha

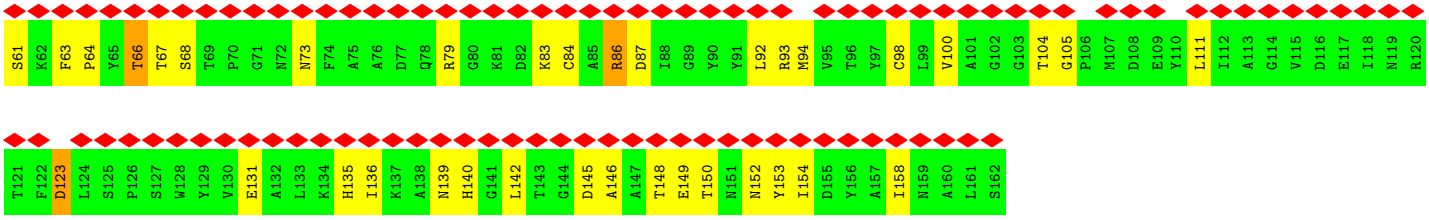
Chain H4:



• Molecule 2: C-phycocyanin subunit alpha

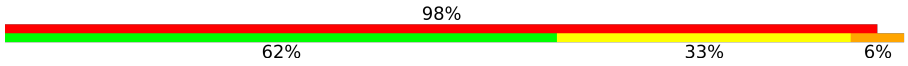
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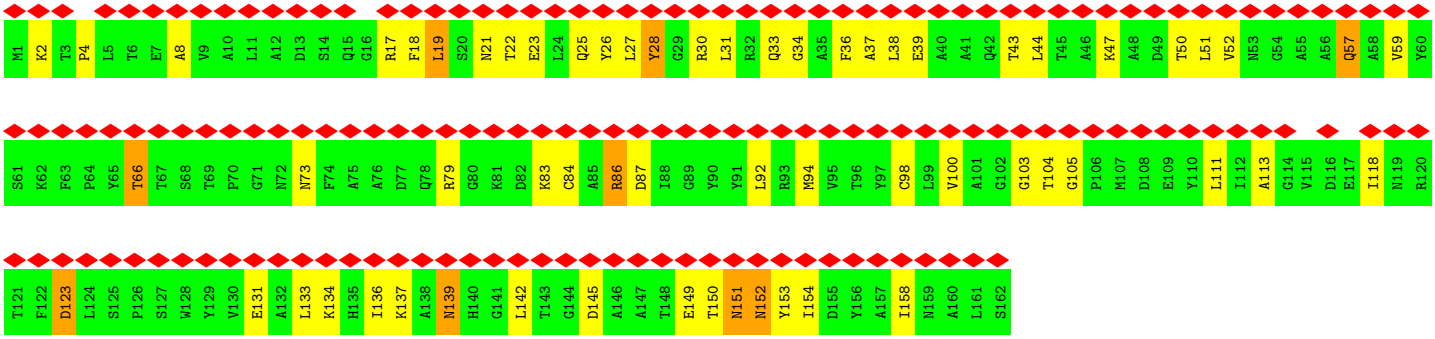




• Molecule 2: C-phycocyanin subunit alpha

Chain L4:

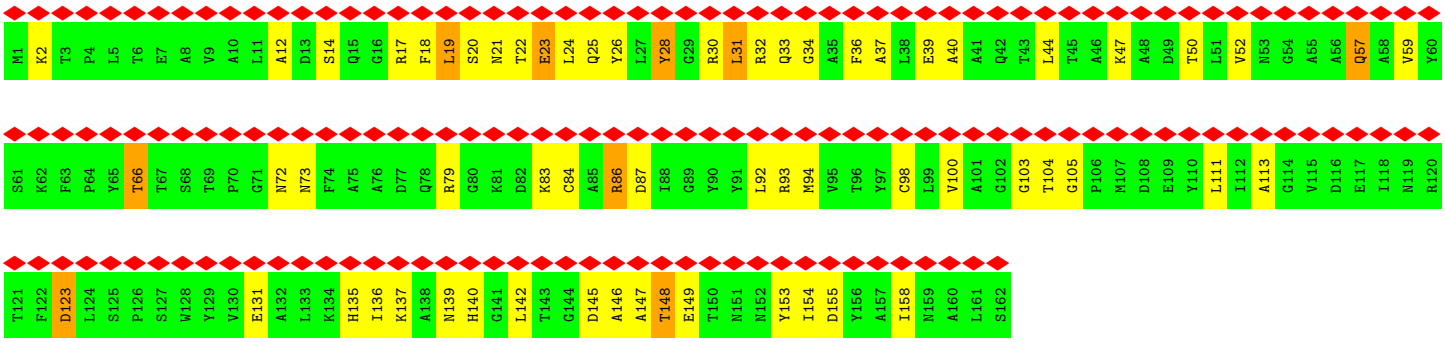




• Molecule 2: C-phycocyanin subunit alpha

Chain O4:

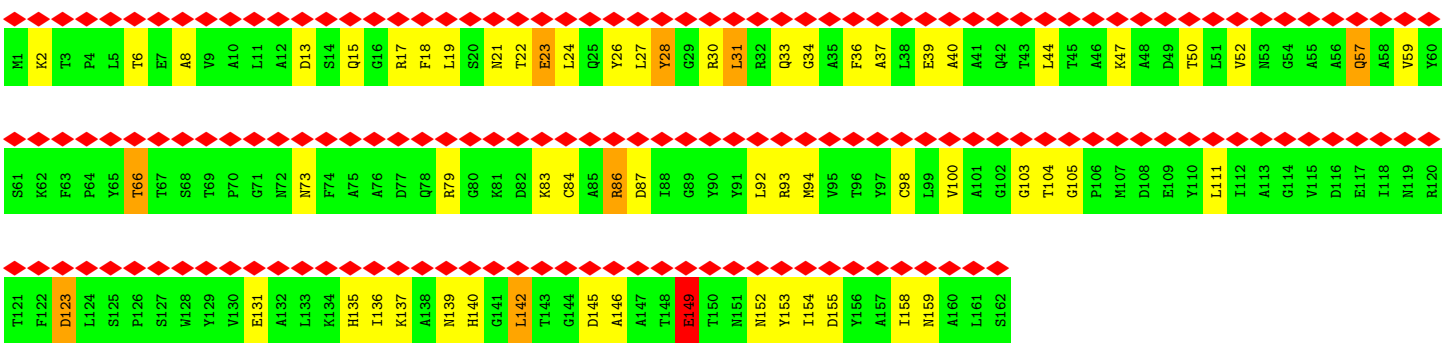




• Molecule 2: C-phycocyanin subunit alpha

Chain Q4:

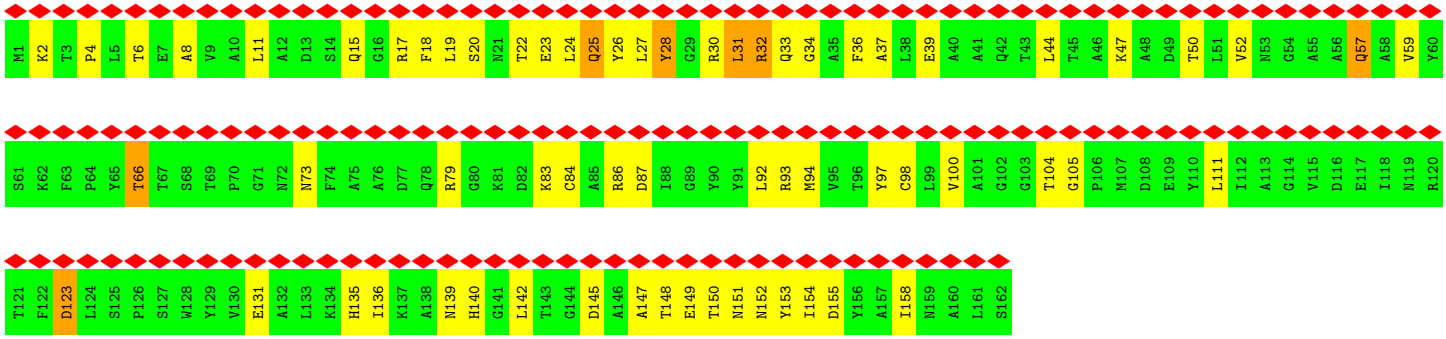




• Molecule 2: C-phycocyanin subunit alpha

Chain S4:

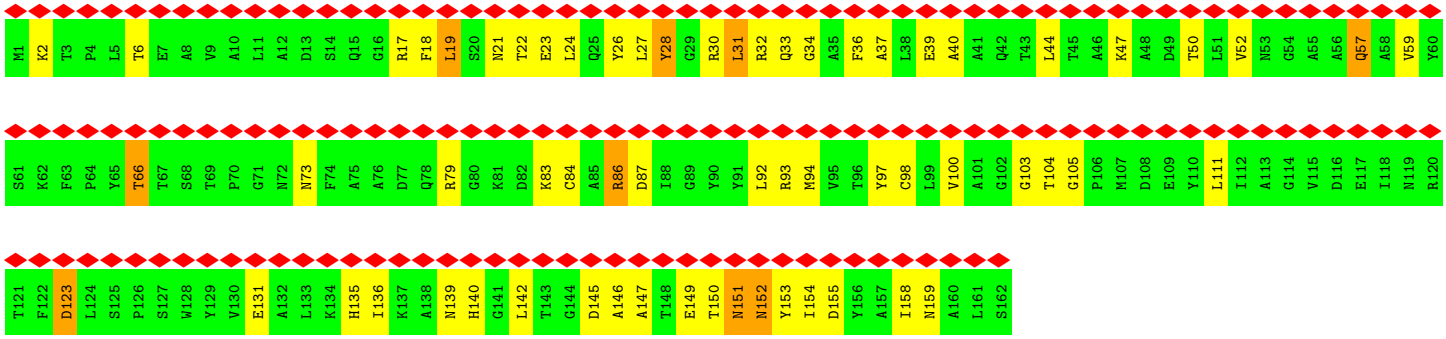




• Molecule 2: C-phycocyanin subunit alpha

Chain U4:

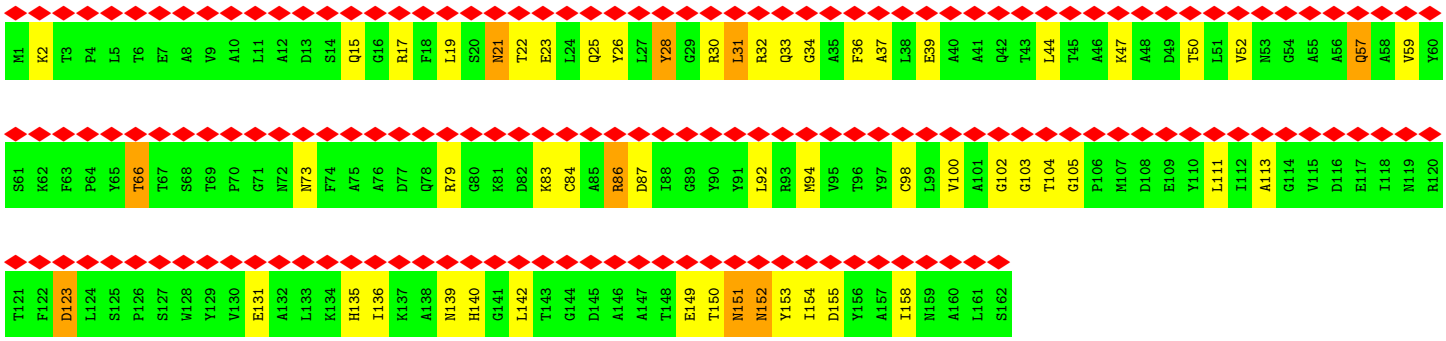




• Molecule 2: C-phycocyanin subunit alpha

Chain W4:

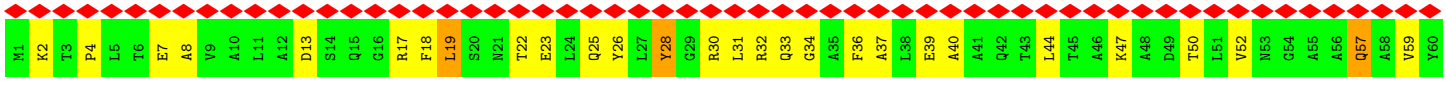


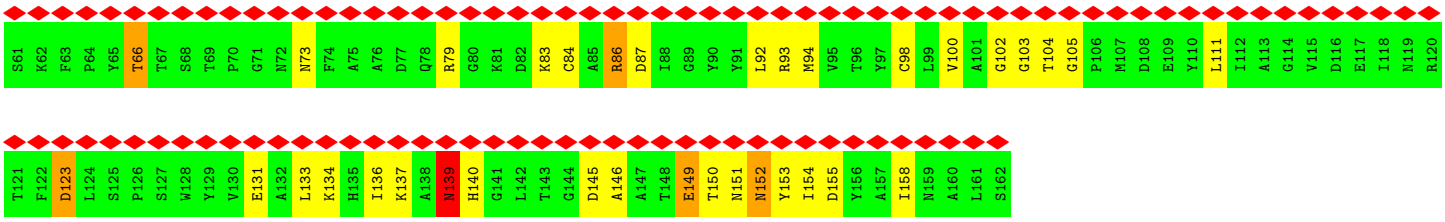


• Molecule 2: C-phycocyanin subunit alpha

Chain Y4:

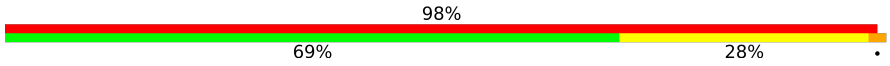


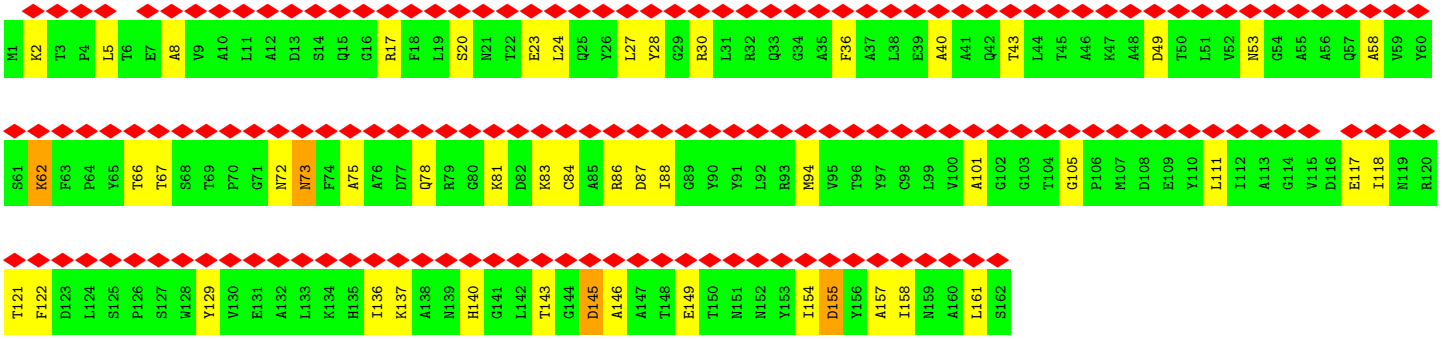




• Molecule 2: C-phycocyanin subunit alpha

Chain B5:





• Molecule 2: C-phycocyanin subunit alpha

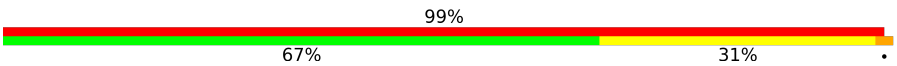
Chain D5:





• Molecule 2: C-phycocyanin subunit alpha

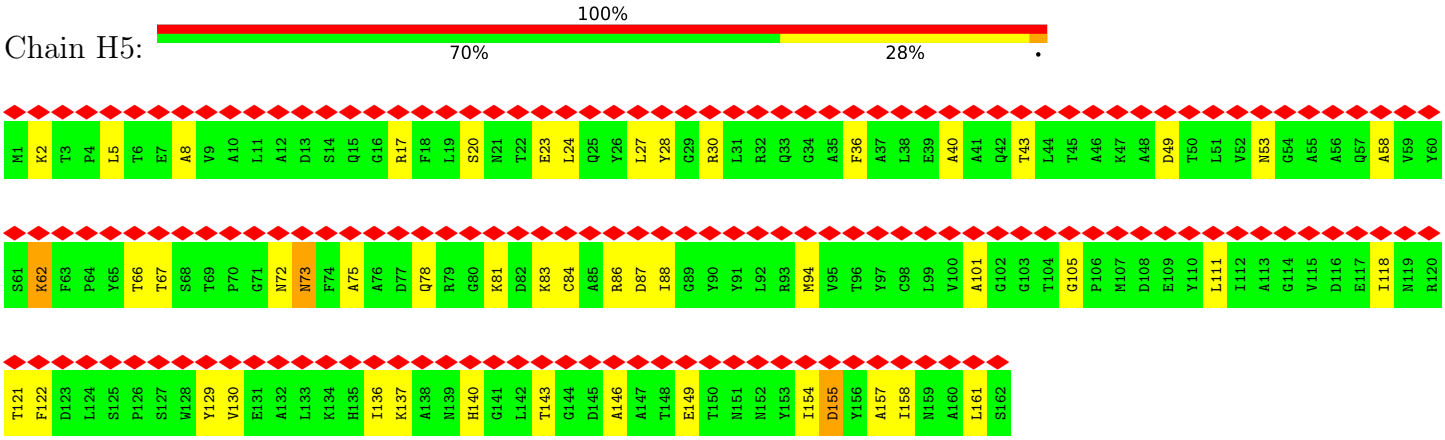
Chain F5:





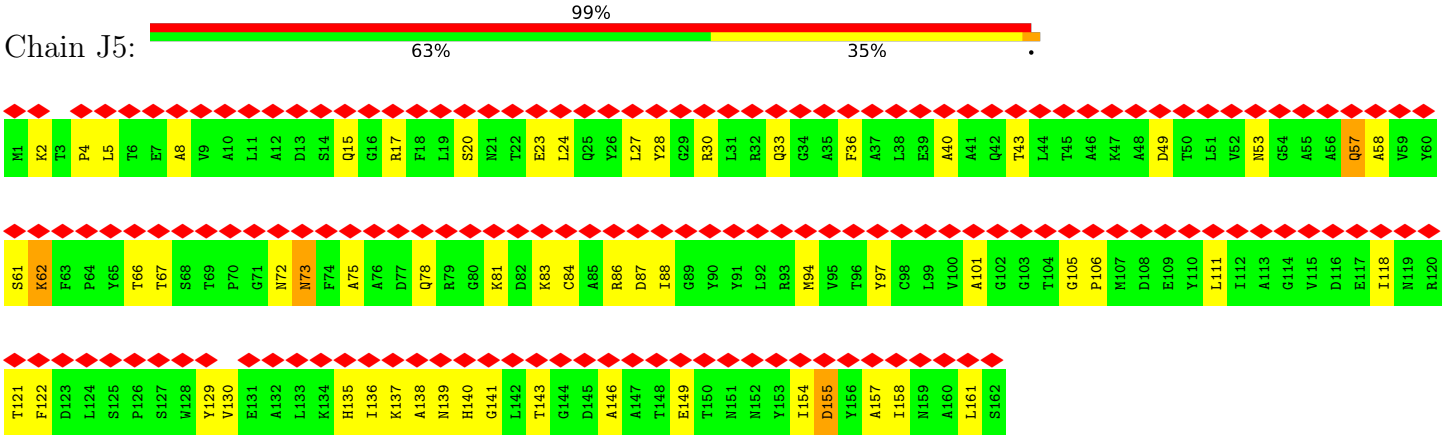
• Molecule 2: C-phycocyanin subunit alpha

Chain H5:



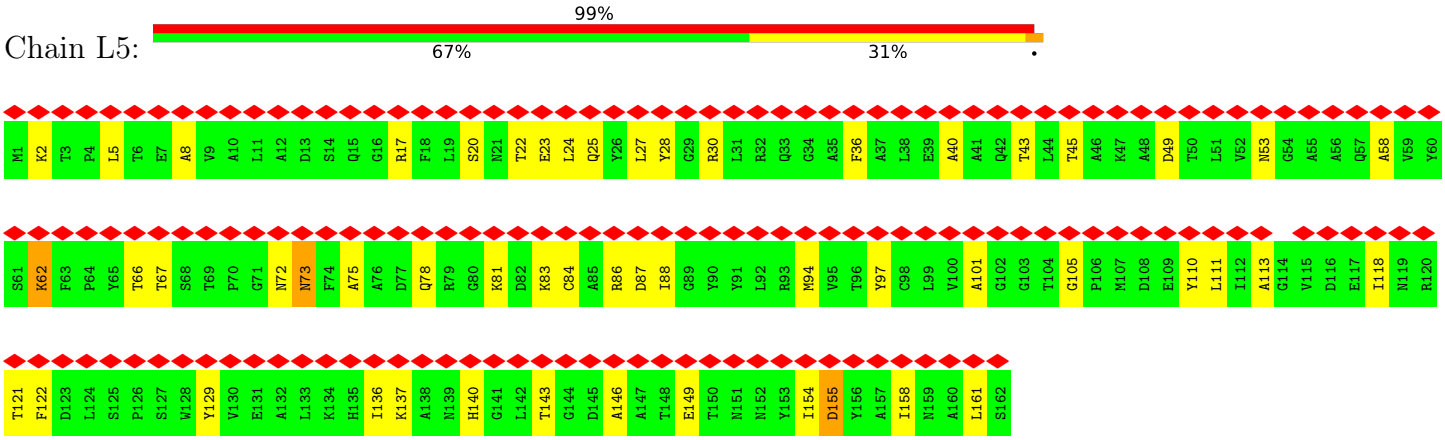
• Molecule 2: C-phycocyanin subunit alpha

Chain J5:



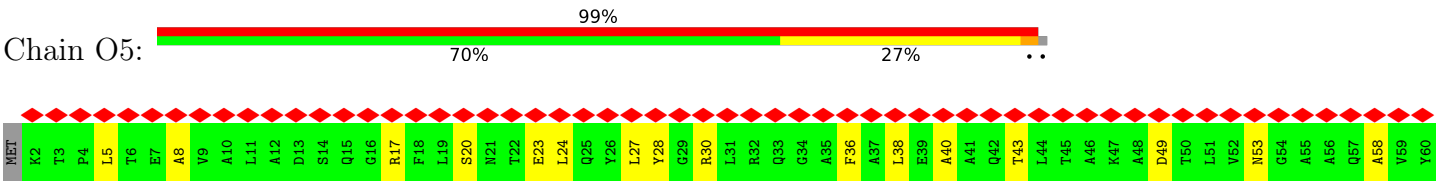
• Molecule 2: C-phycocyanin subunit alpha

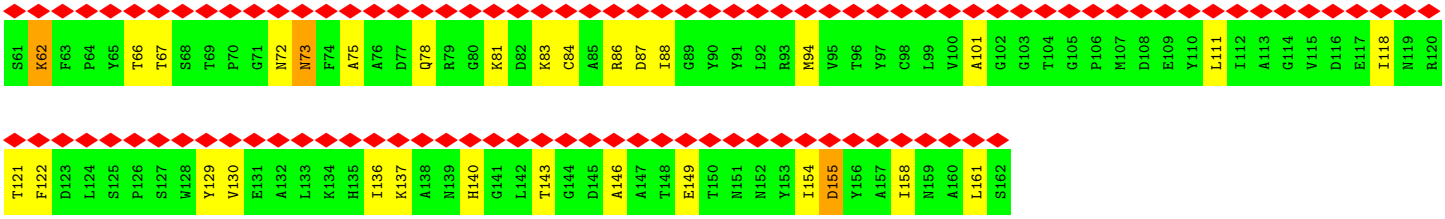
Chain L5:



• Molecule 2: C-phycocyanin subunit alpha

Chain O5:

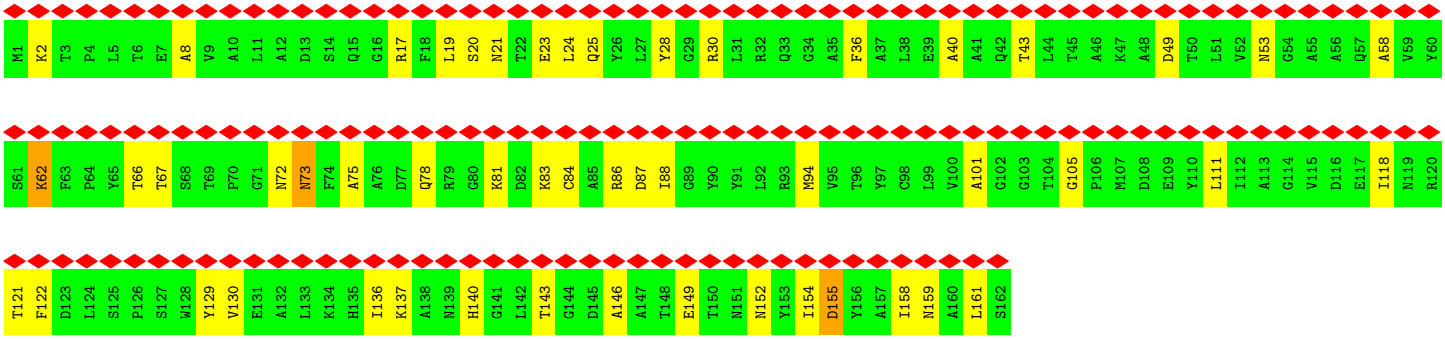




• Molecule 2: C-phycocyanin subunit alpha

Chain Q5:





• Molecule 2: C-phycocyanin subunit alpha

Chain S5:

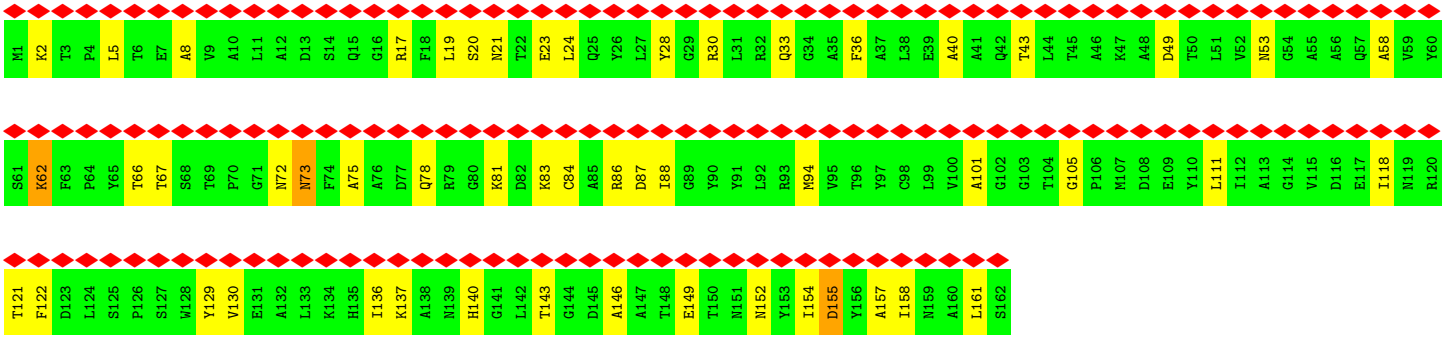




• Molecule 2: C-phycocyanin subunit alpha

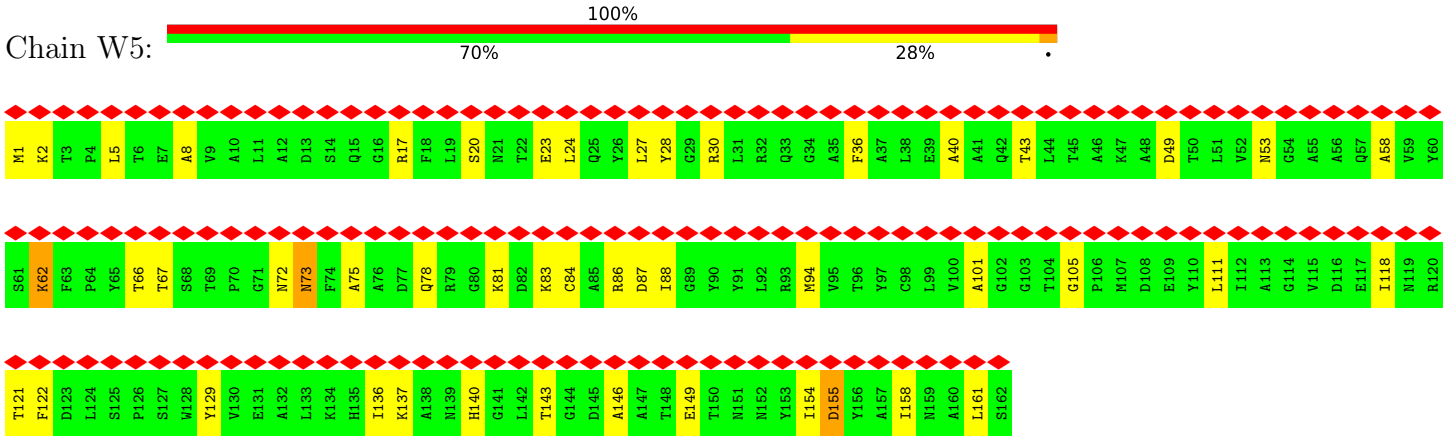
Chain U5:





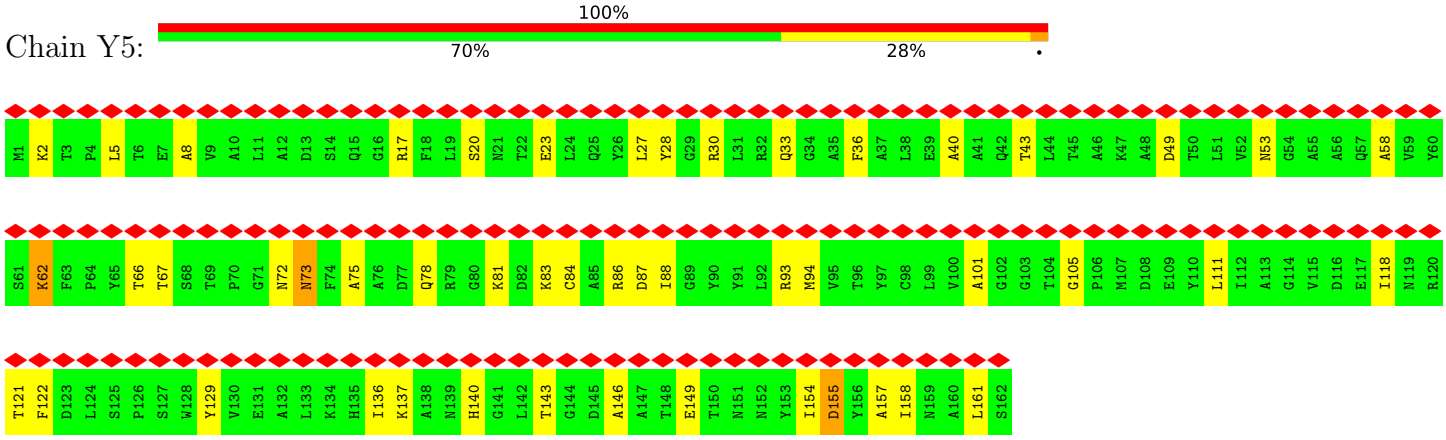
• Molecule 2: C-phycocyanin subunit alpha

Chain W5:



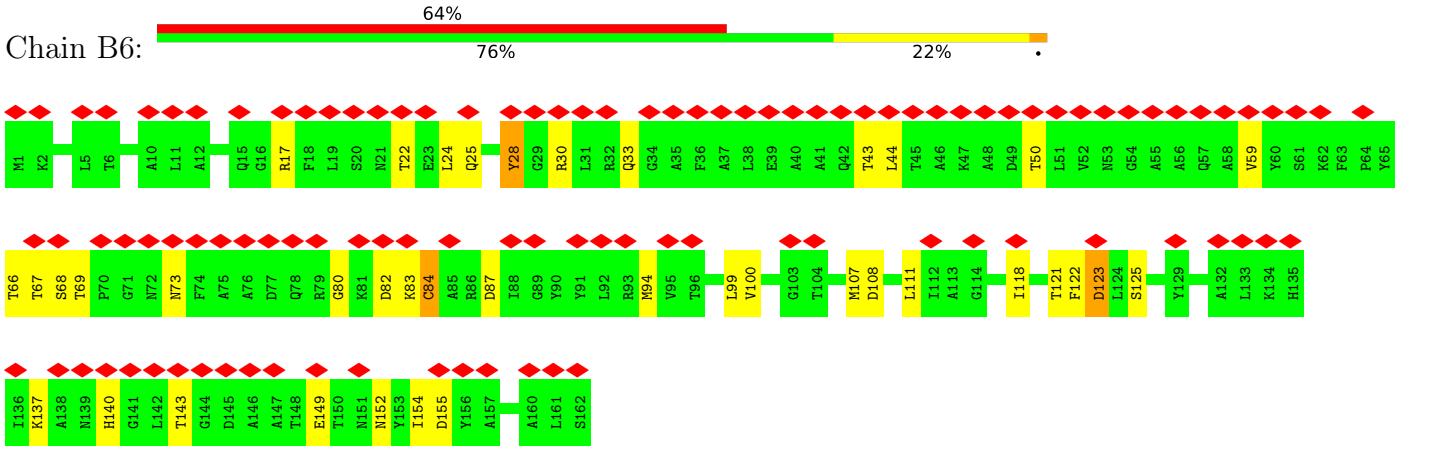
• Molecule 2: C-phycocyanin subunit alpha

Chain Y5:



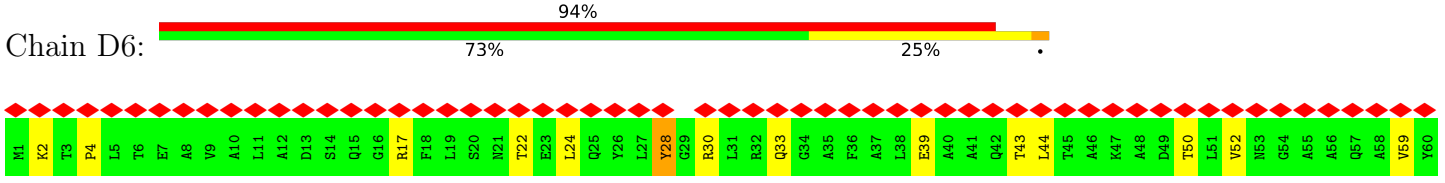
• Molecule 2: C-phycocyanin subunit alpha

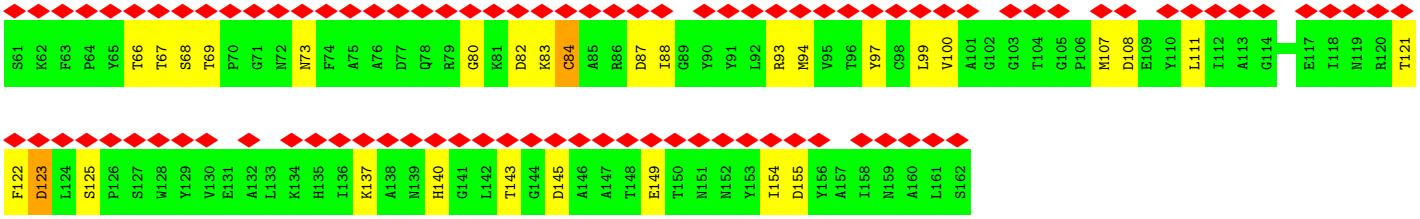
Chain B6:



• Molecule 2: C-phycocyanin subunit alpha

Chain D6:

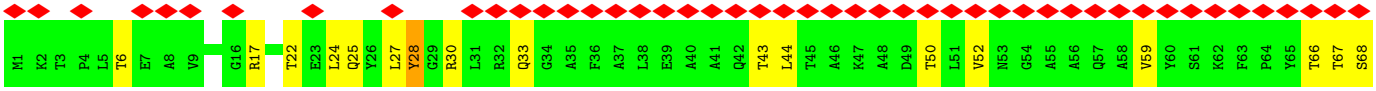


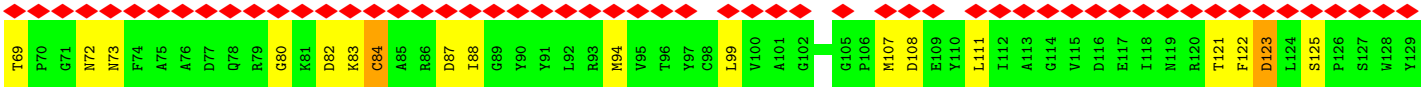


• Molecule 2: C-phycocyanin subunit alpha

Chain F6:

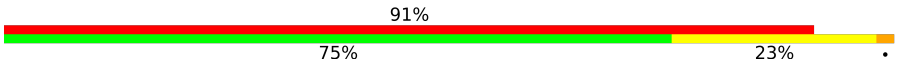


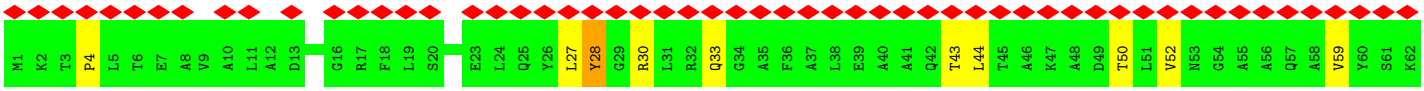


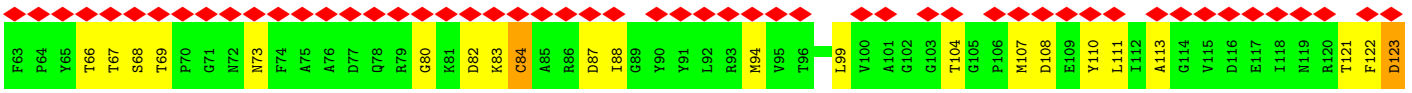


• Molecule 2: C-phycocyanin subunit alpha

Chain H6:



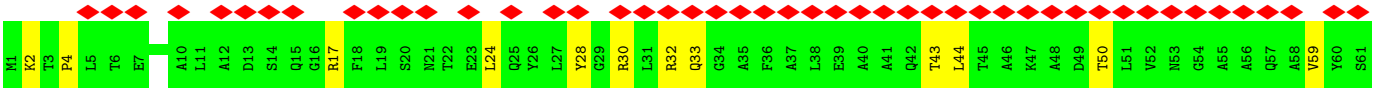


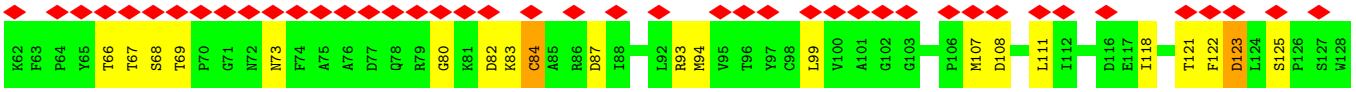


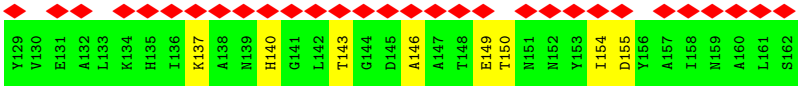
• Molecule 2: C-phycocyanin subunit alpha

Chain J6:



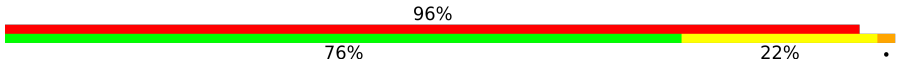


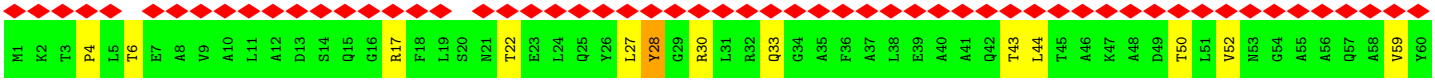


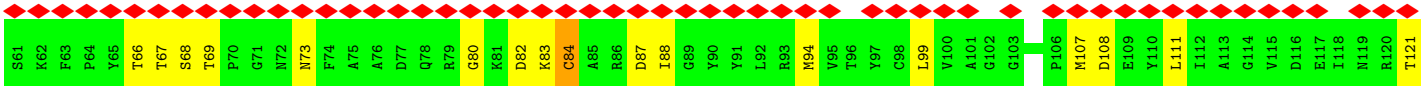


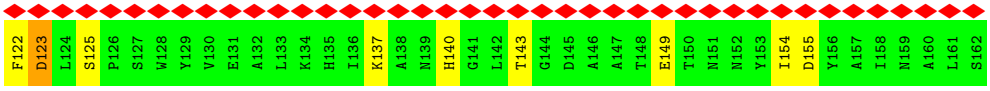
• Molecule 2: C-phycocyanin subunit alpha

Chain L6:





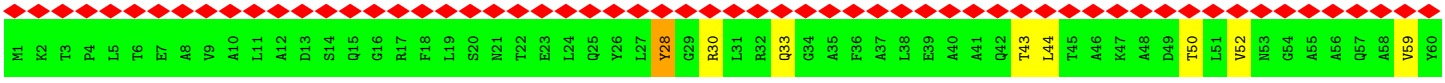


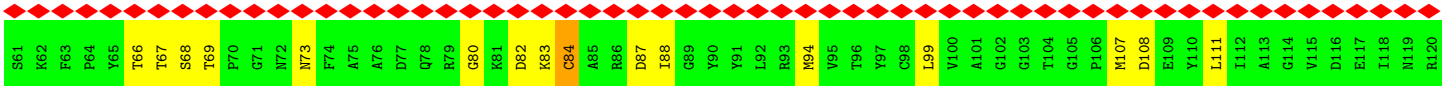


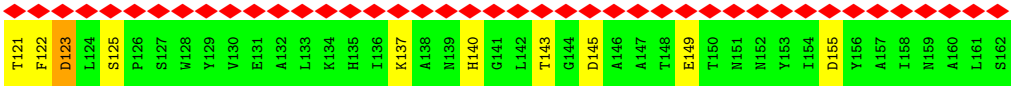
• Molecule 2: C-phycocyanin subunit alpha

Chain O6:



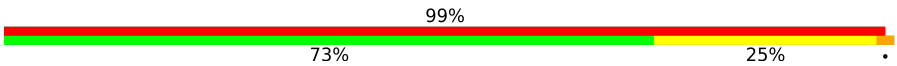


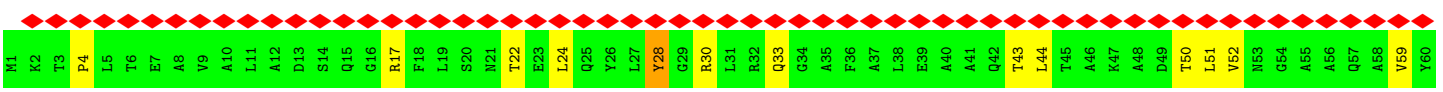


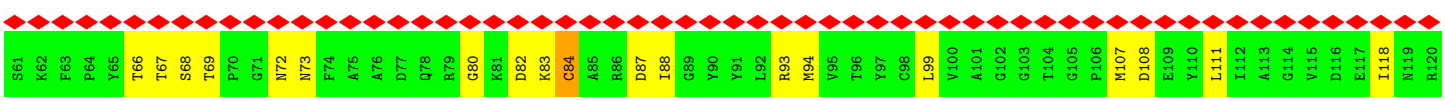


• Molecule 2: C-phycocyanin subunit alpha

Chain Q6:



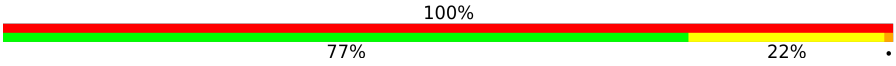


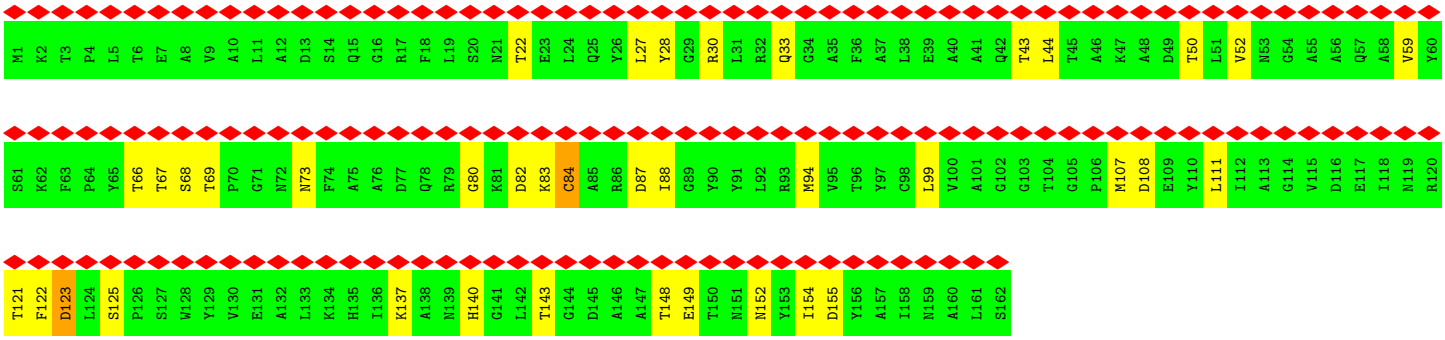




• Molecule 2: C-phycocyanin subunit alpha

Chain S6:

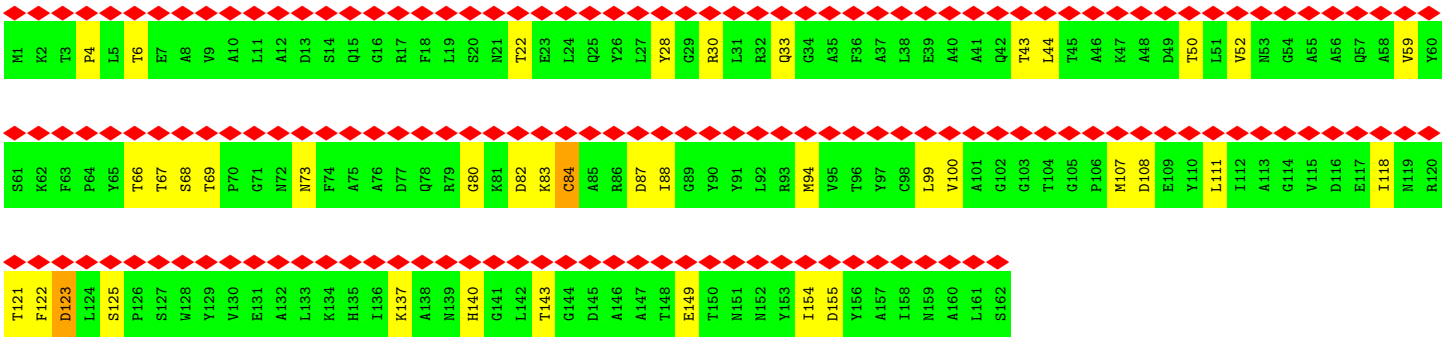




• Molecule 2: C-phycocyanin subunit alpha

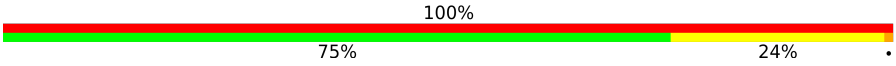
Chain U6:





• Molecule 2: C-phycocyanin subunit alpha

Chain W6:

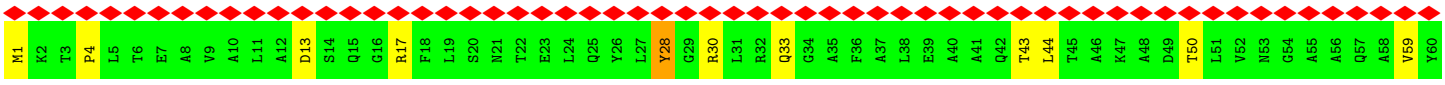


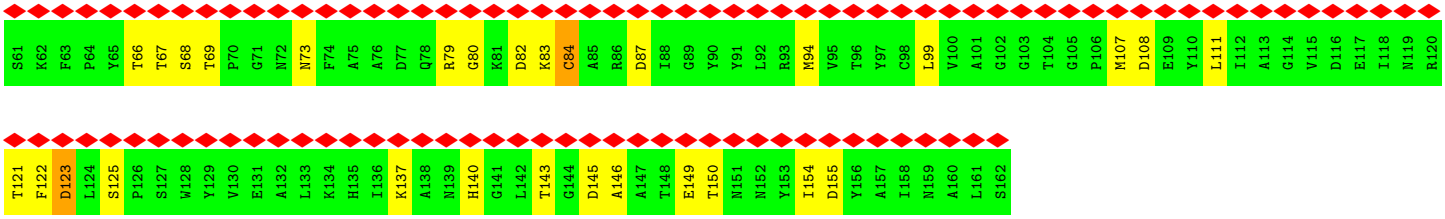


• Molecule 2: C-phycocyanin subunit alpha

Chain Y6:

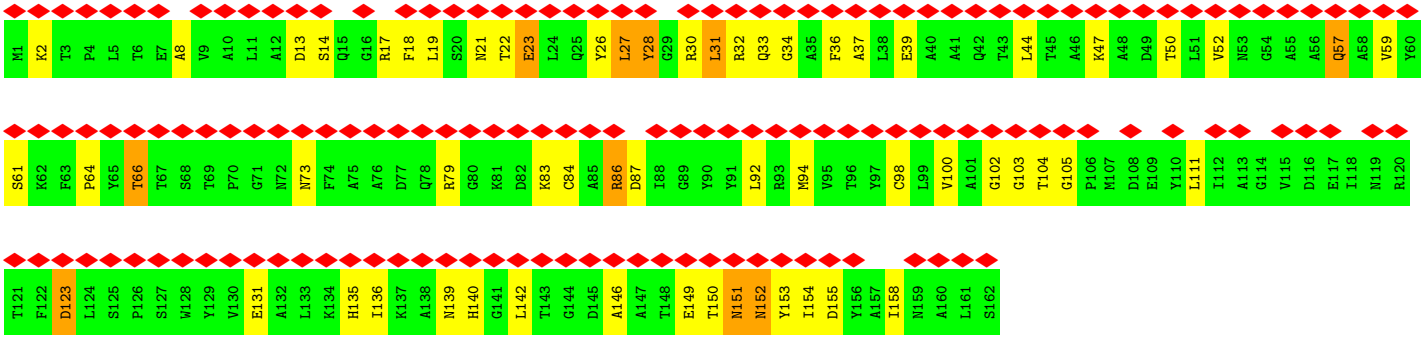






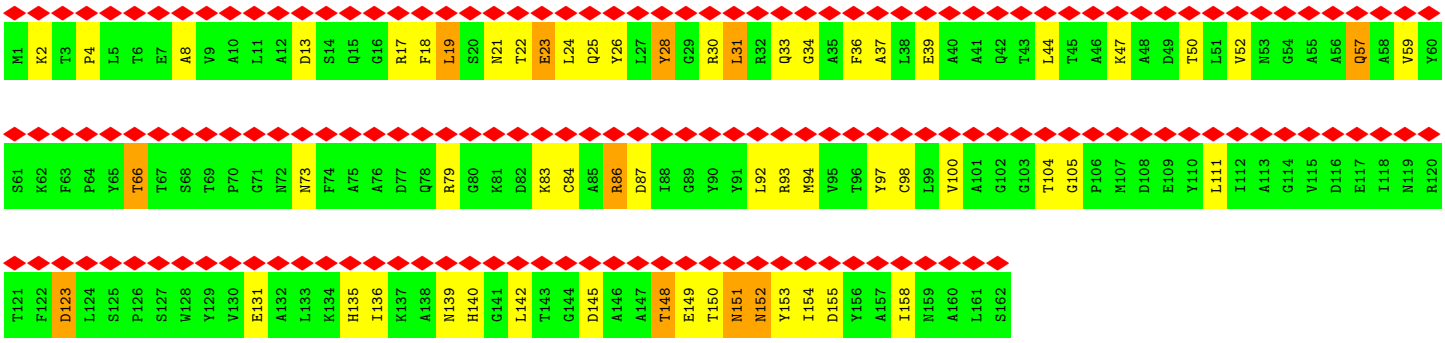
• Molecule 2: C-phycocyanin subunit alpha





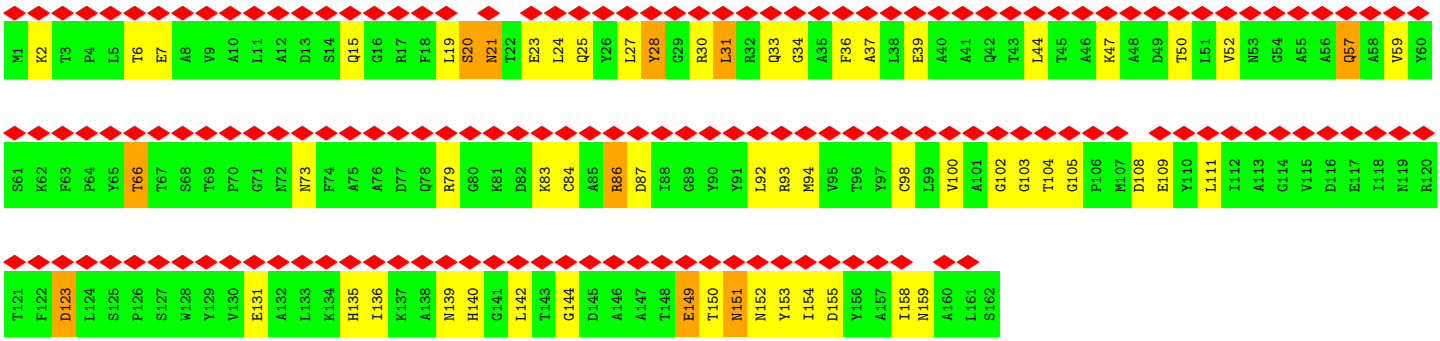
• Molecule 2: C-phycocyanin subunit alpha





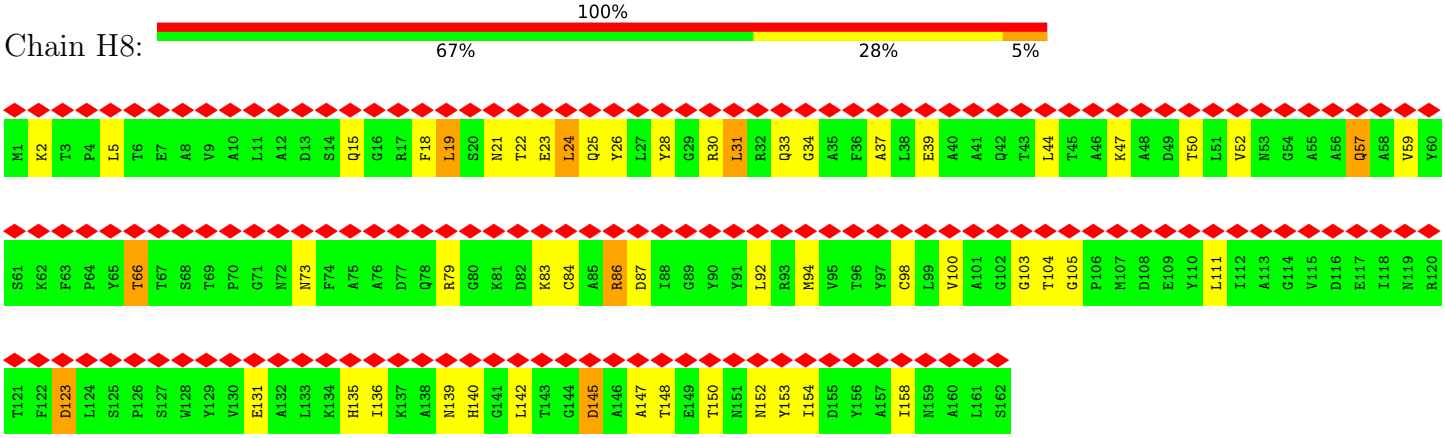
• Molecule 2: C-phycocyanin subunit alpha





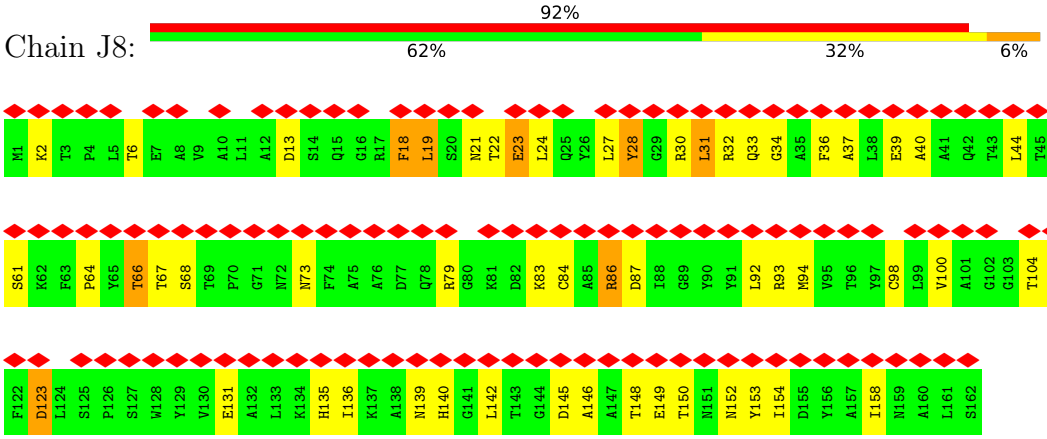
• Molecule 2: C-phycocyanin subunit alpha

Chain H8:



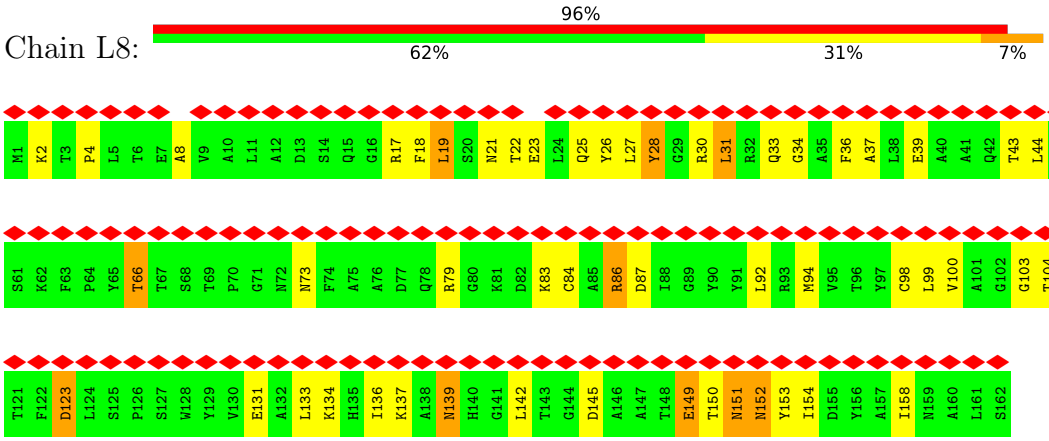
• Molecule 2: C-phycocyanin subunit alpha

Chain J8:



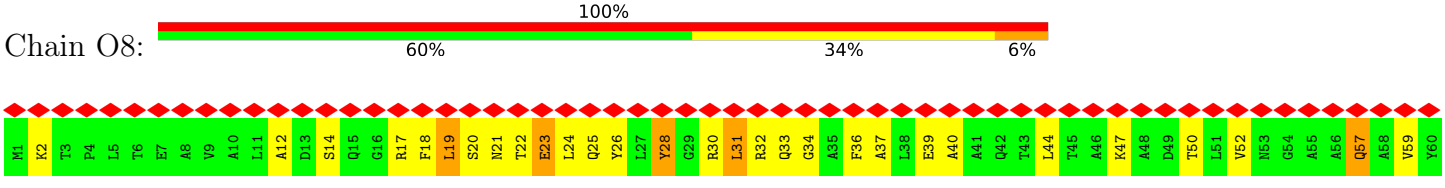
• Molecule 2: C-phycocyanin subunit alpha

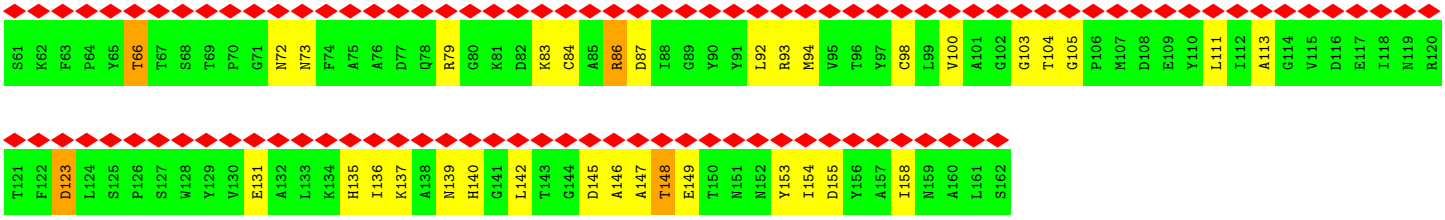
Chain L8:



• Molecule 2: C-phycocyanin subunit alpha

Chain O8:

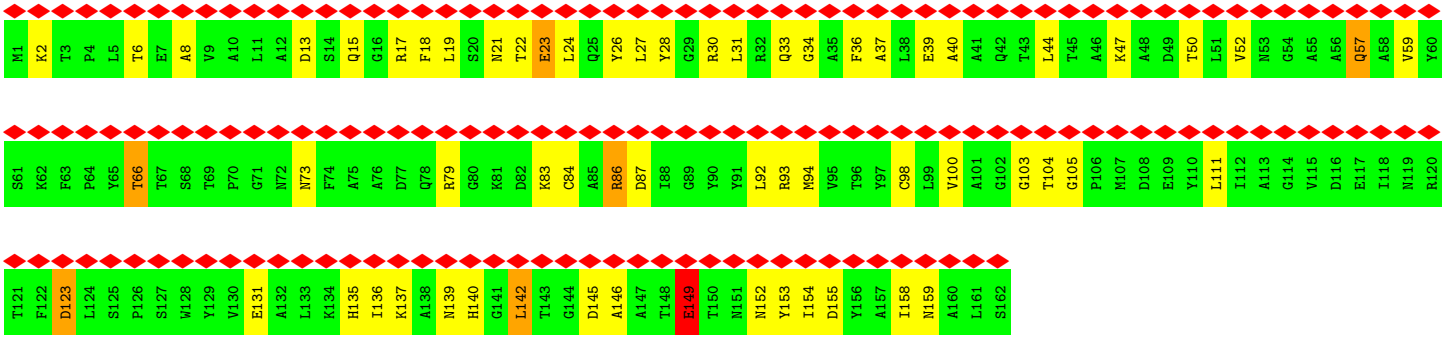




• Molecule 2: C-phycocyanin subunit alpha

Chain Q8:

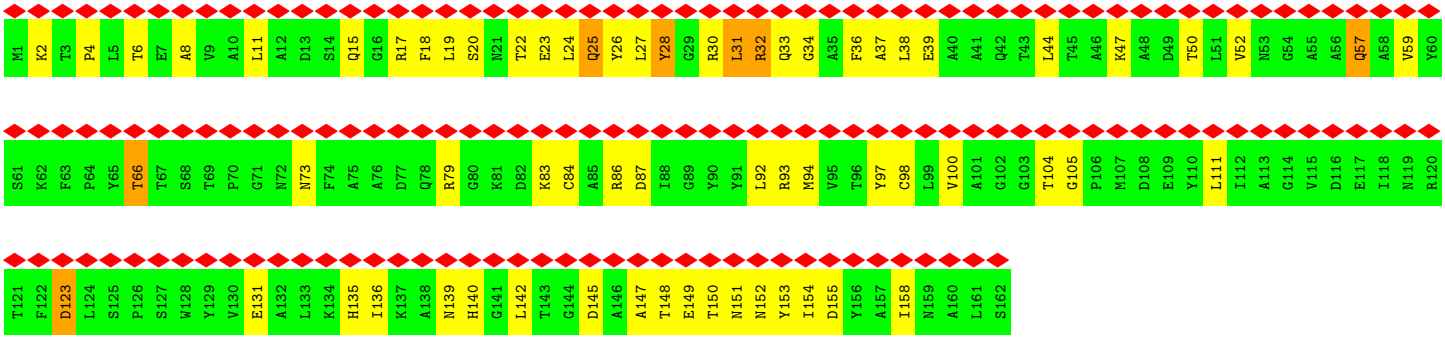




• Molecule 2: C-phycocyanin subunit alpha

Chain S8:

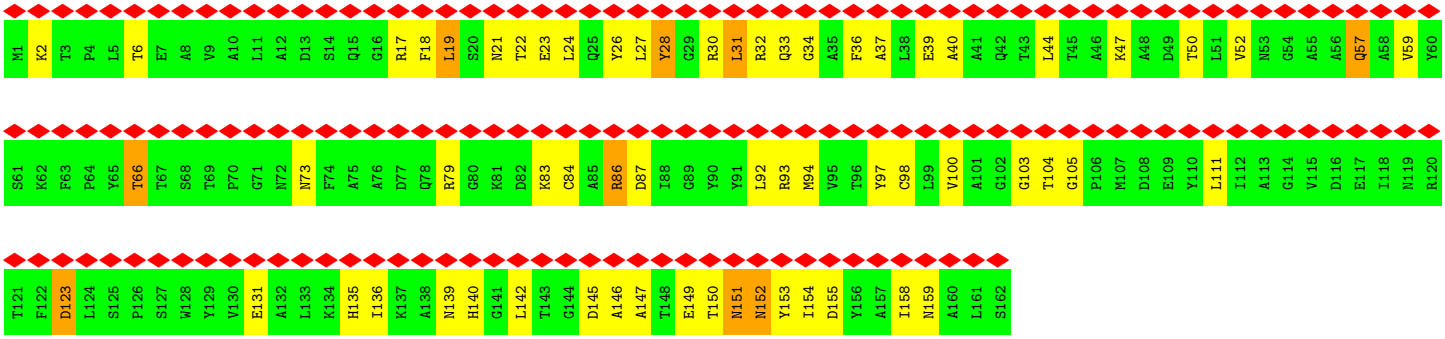




• Molecule 2: C-phycocyanin subunit alpha

Chain U8:

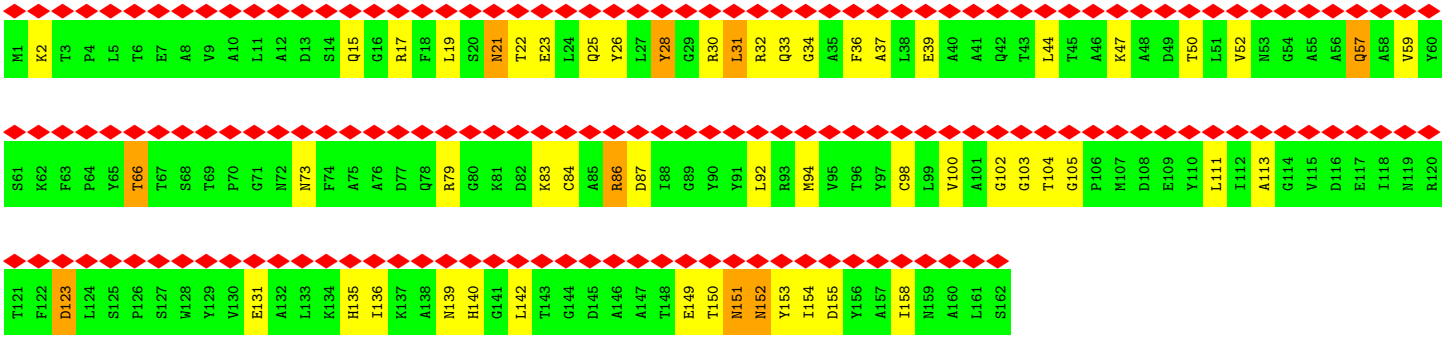




• Molecule 2: C-phycocyanin subunit alpha

Chain W8:

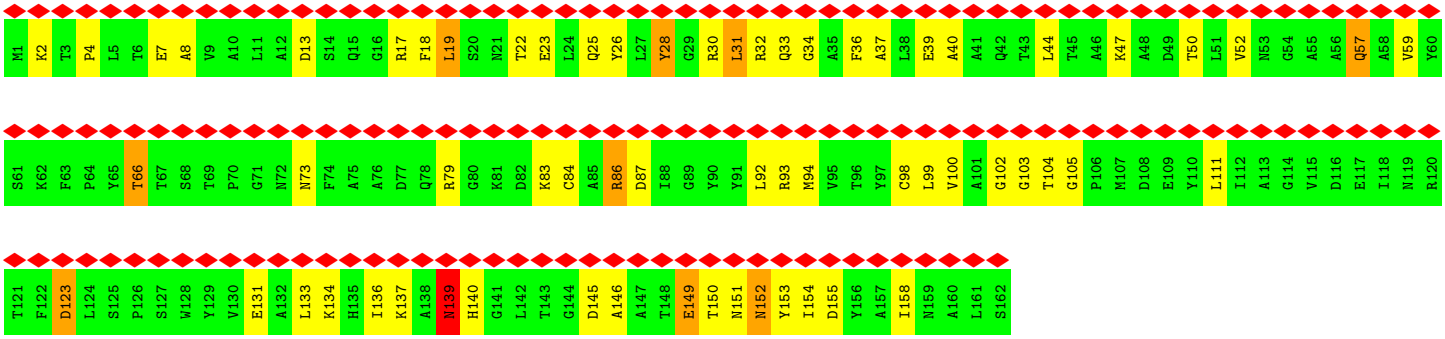




• Molecule 2: C-phycocyanin subunit alpha

Chain Y8:

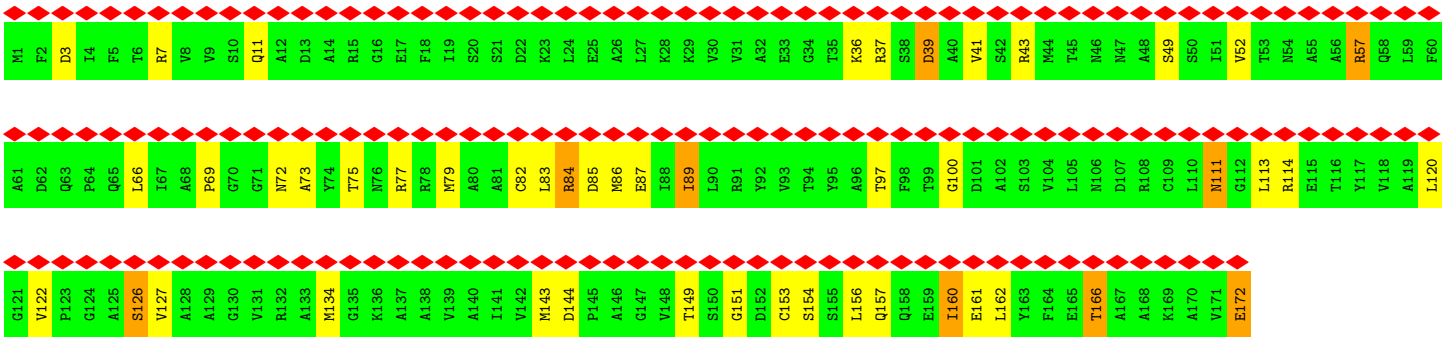




• Molecule 3: C-phycocyanin subunit beta

Chain C1:

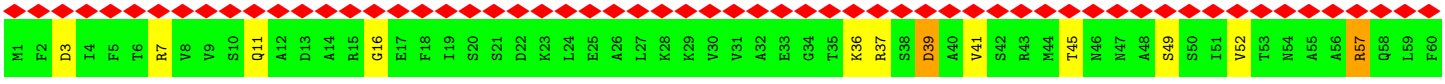


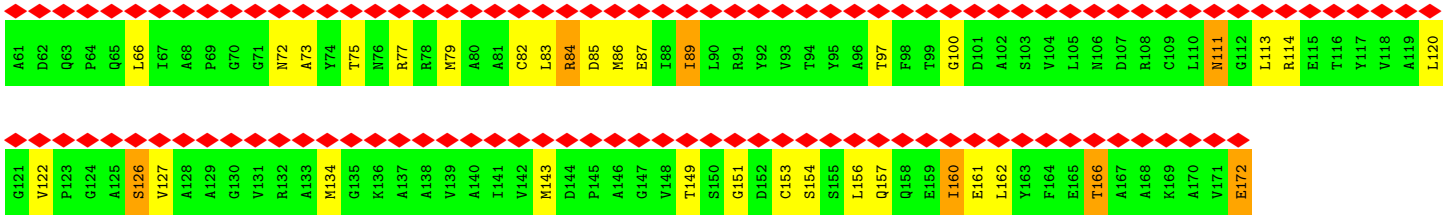


• Molecule 3: C-phycocyanin subunit beta

Chain E1:

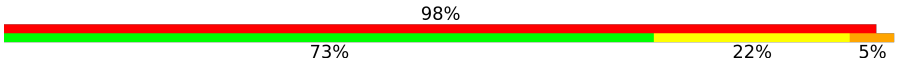


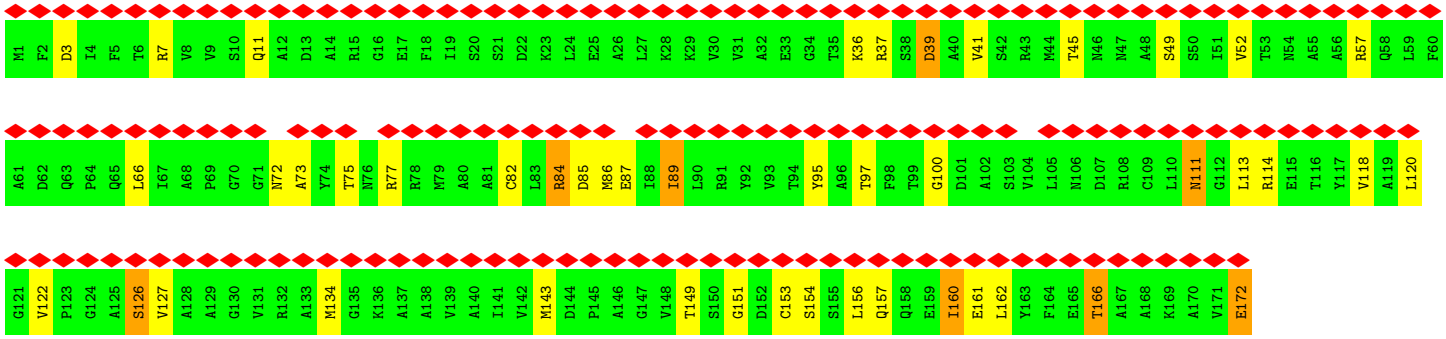




• Molecule 3: C-phycocyanin subunit beta

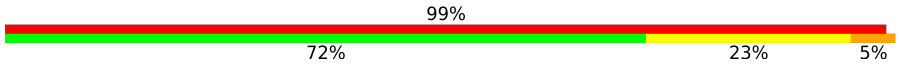
Chain G1:

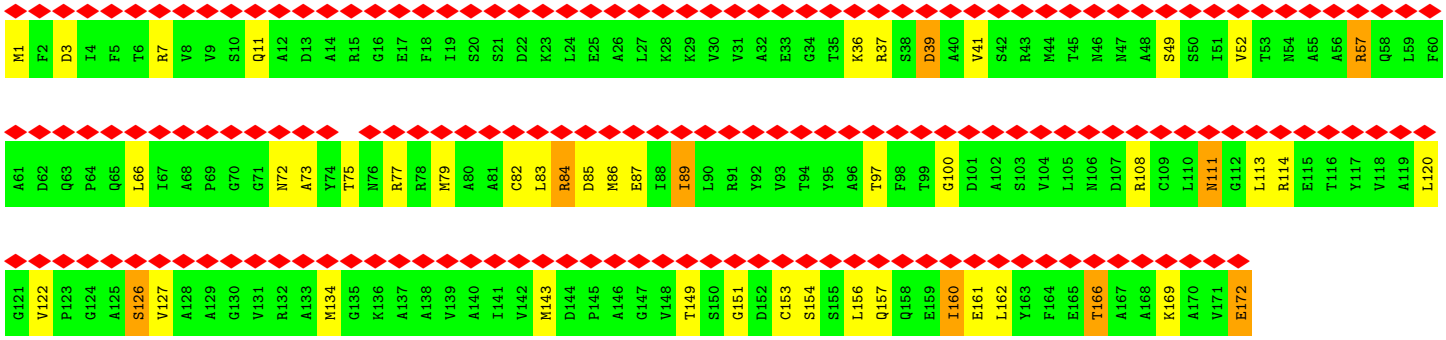




• Molecule 3: C-phycocyanin subunit beta

Chain I1:

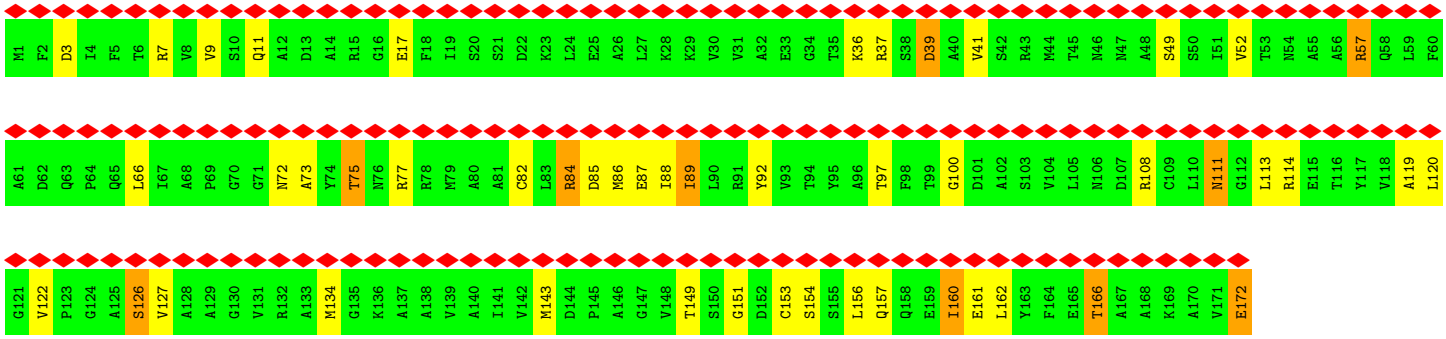




• Molecule 3: C-phycocyanin subunit beta

Chain K1:

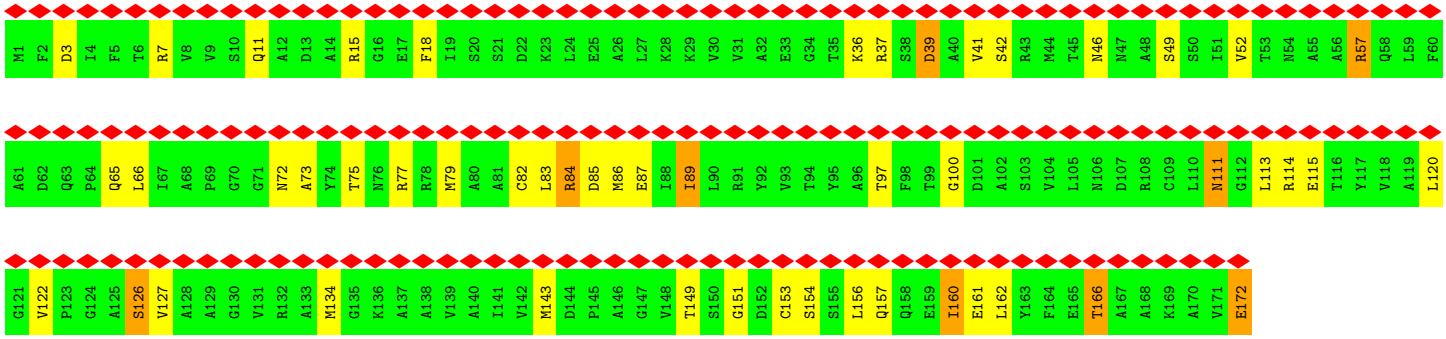




• Molecule 3: C-phycocyanin subunit beta

Chain M1:

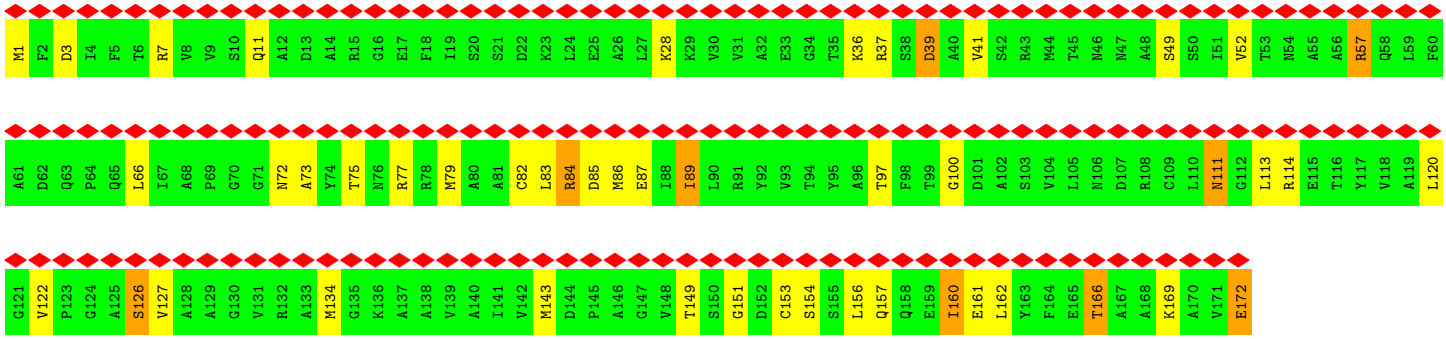




• Molecule 3: C-phycocyanin subunit beta

Chain P1:

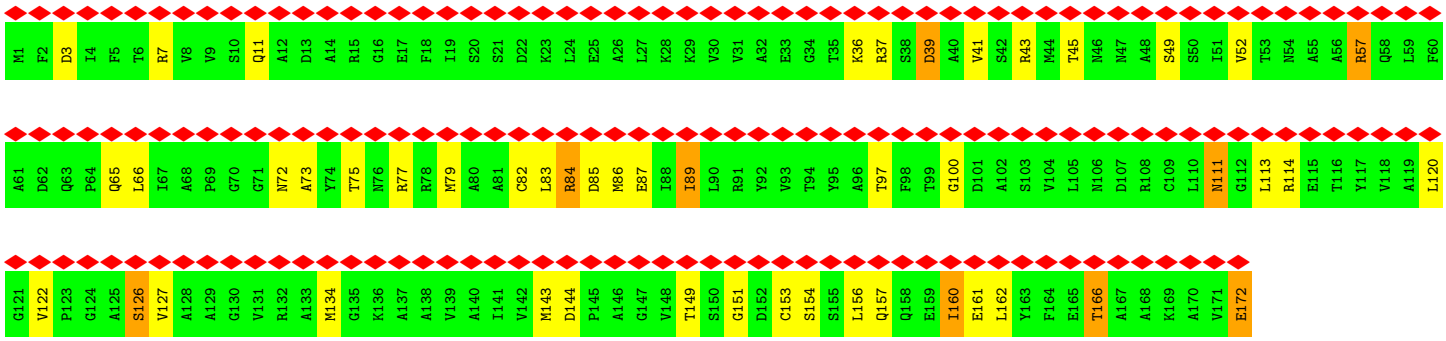




• Molecule 3: C-phycocyanin subunit beta

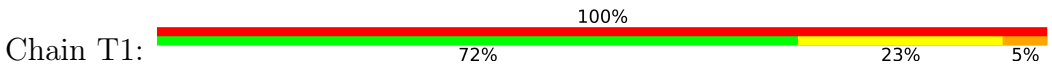
Chain R1:

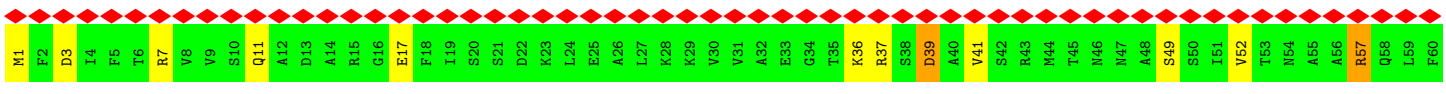


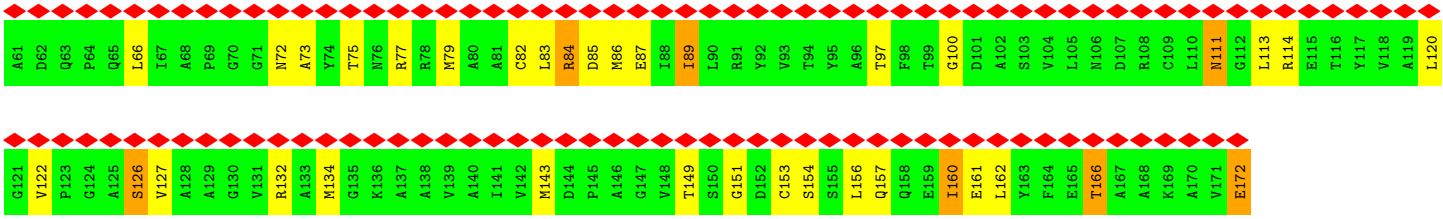


• Molecule 3: C-phycocyanin subunit beta

Chain T1:



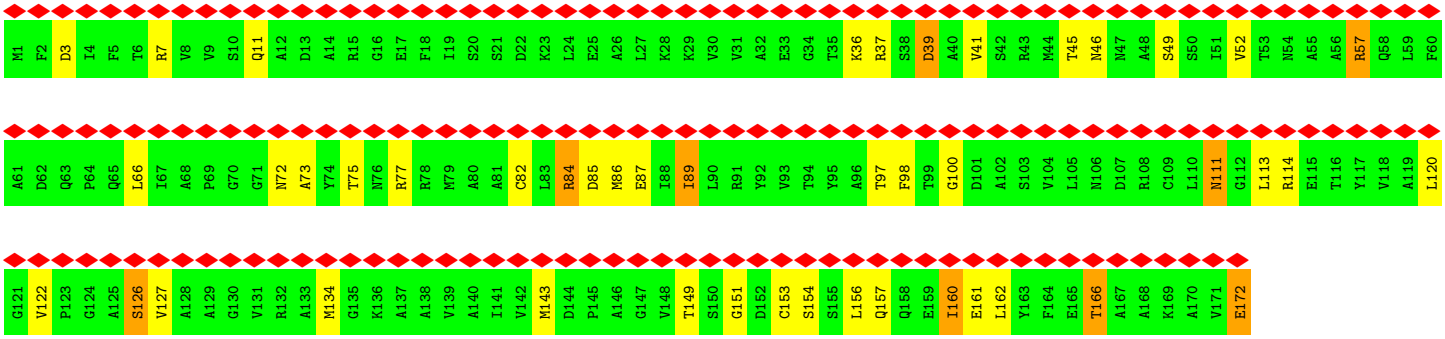




• Molecule 3: C-phycocyanin subunit beta

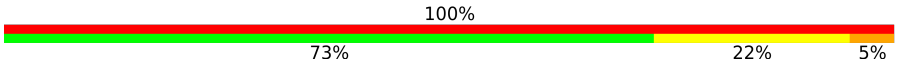
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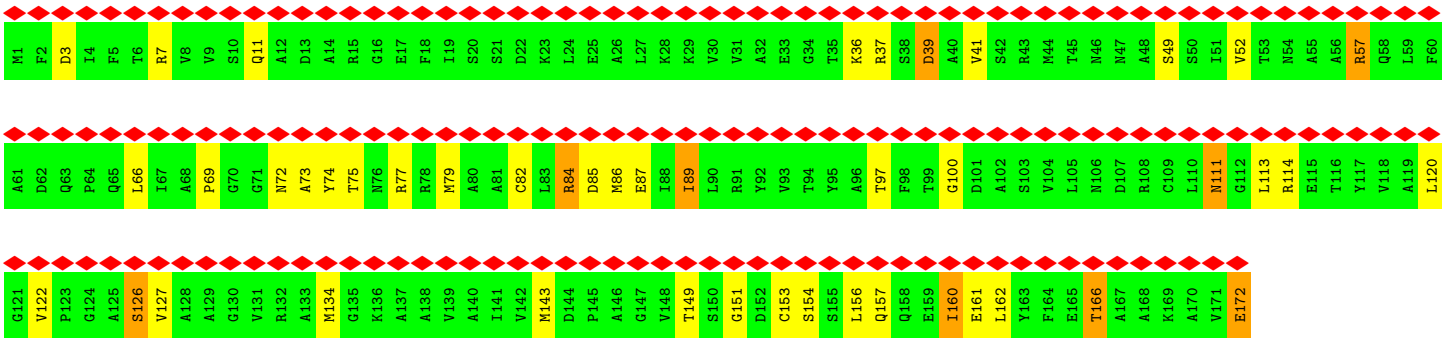




• Molecule 3: C-phycocyanin subunit beta

Chain X1:

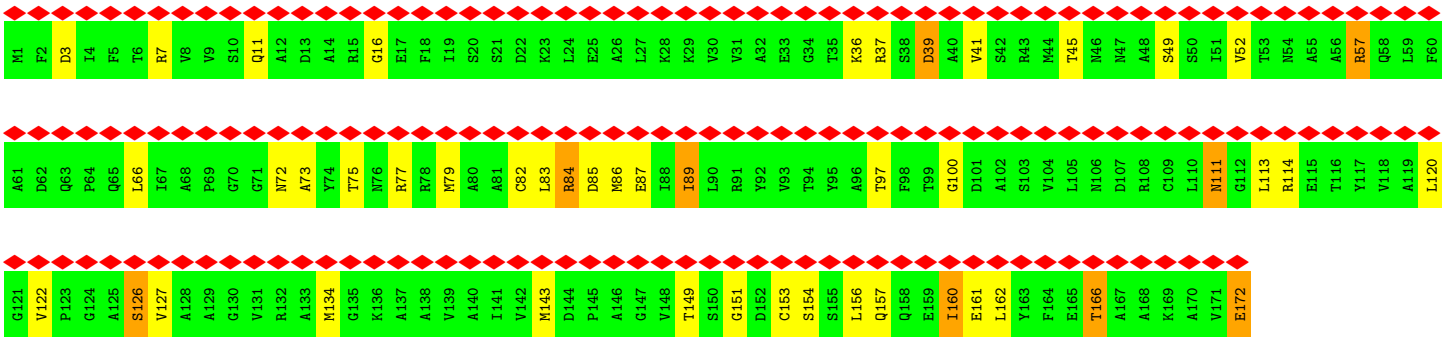




• Molecule 3: C-phycocyanin subunit beta

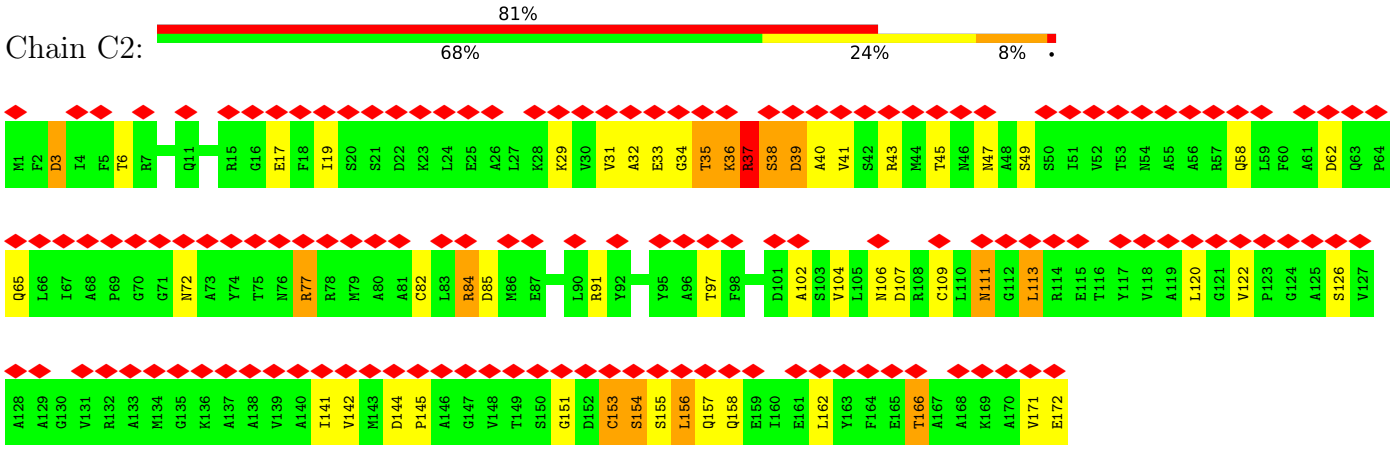
Chain Z1:





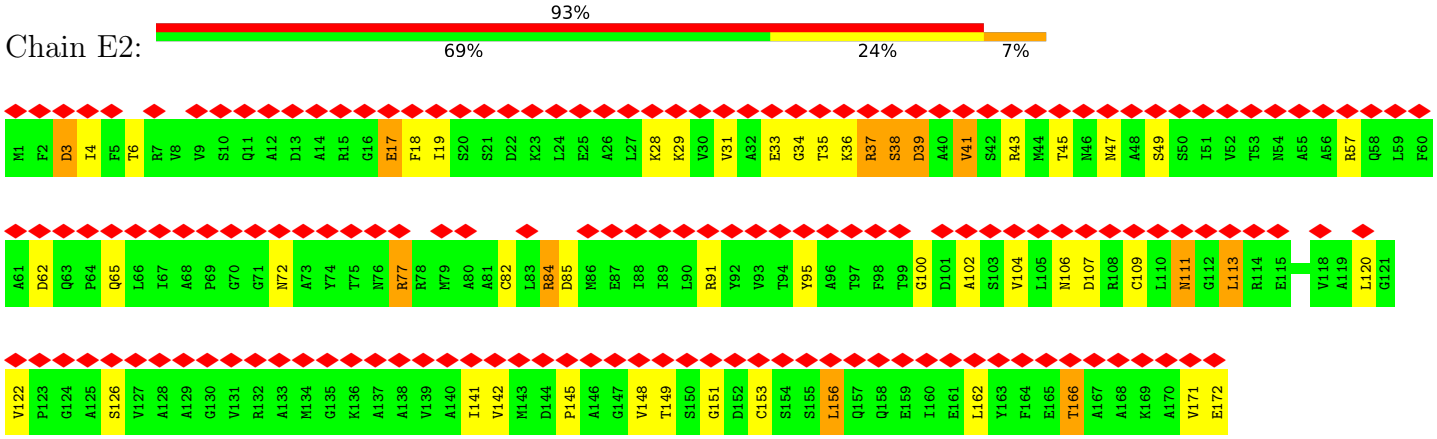
• Molecule 3: C-phycocyanin subunit beta

Chain C2:



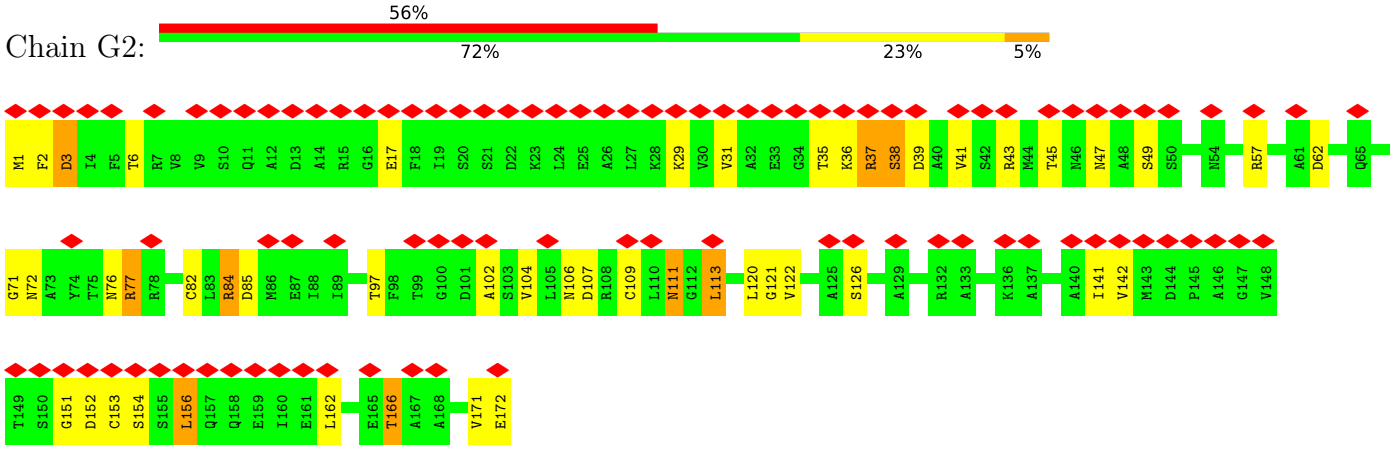
• Molecule 3: C-phycocyanin subunit beta

Chain E2:



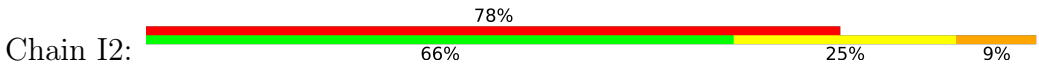
• Molecule 3: C-phycocyanin subunit beta

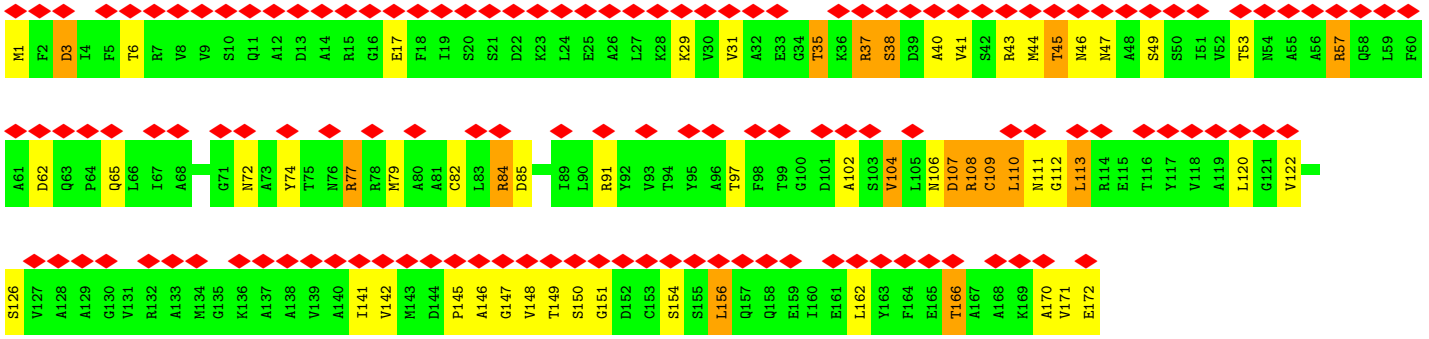
Chain G2:



• Molecule 3: C-phycocyanin subunit beta

Chain I2:

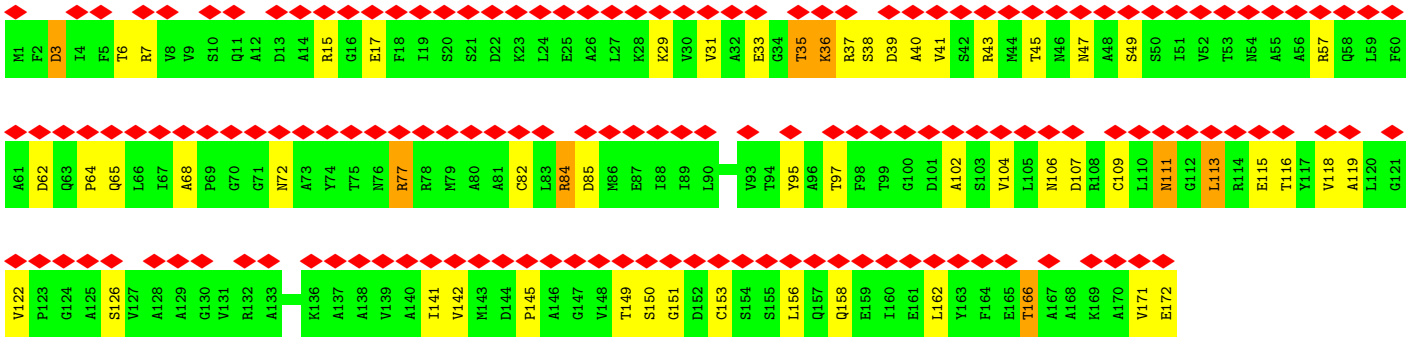




• Molecule 3: C-phycocyanin subunit beta

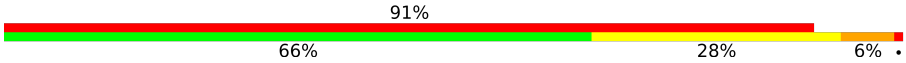
Chain K2:

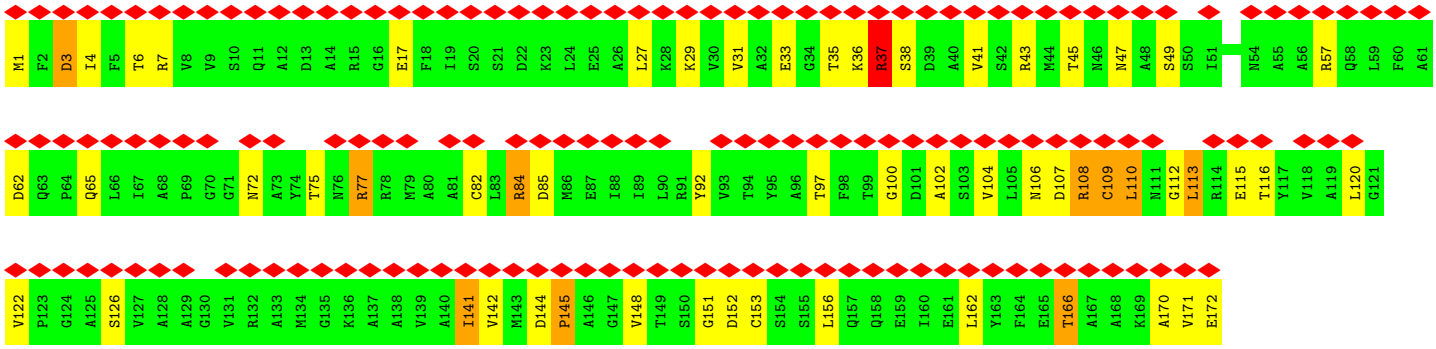




• Molecule 3: C-phycocyanin subunit beta

Chain M2:

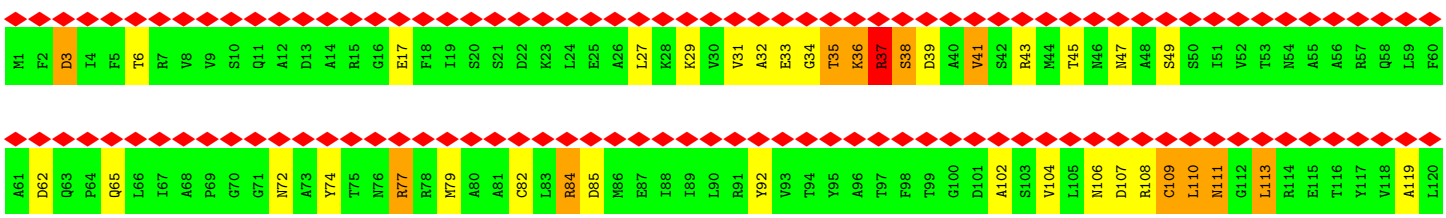


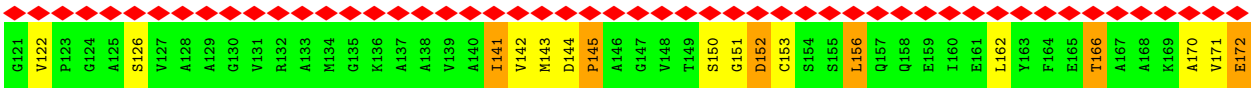


• Molecule 3: C-phycocyanin subunit beta

Chain P2:

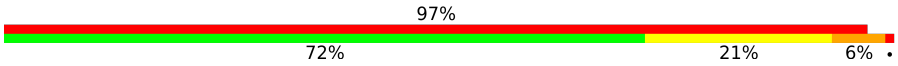


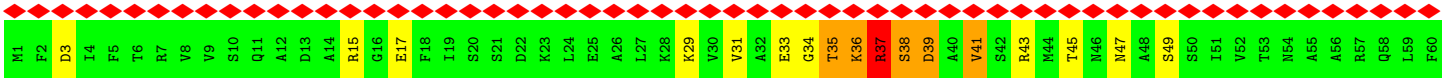


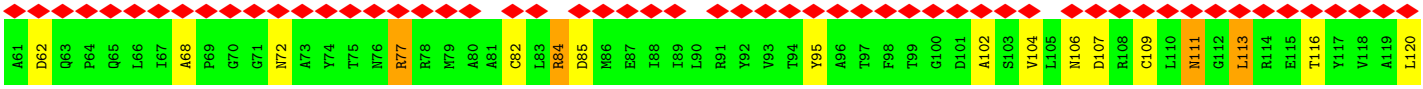


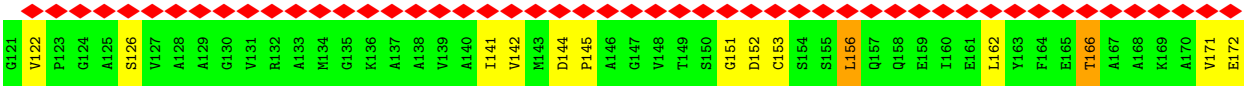
• Molecule 3: C-phycocyanin subunit beta

Chain R2:





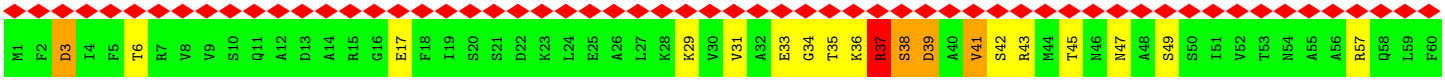


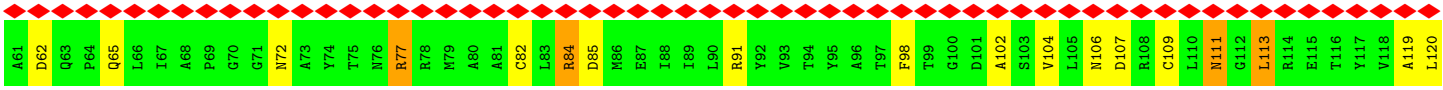


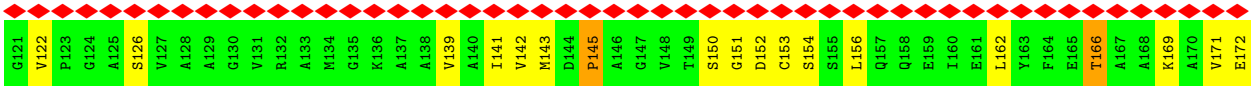
• Molecule 3: C-phycocyanin subunit beta

Chain T2:



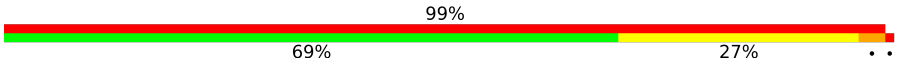


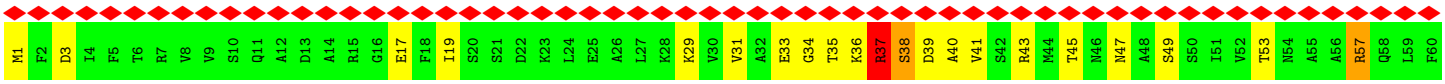


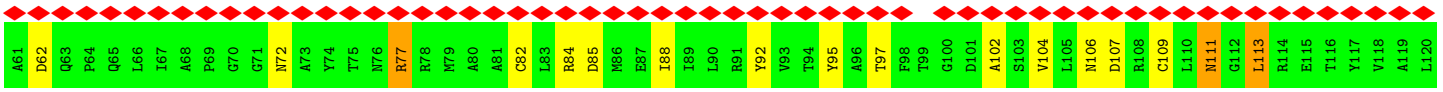


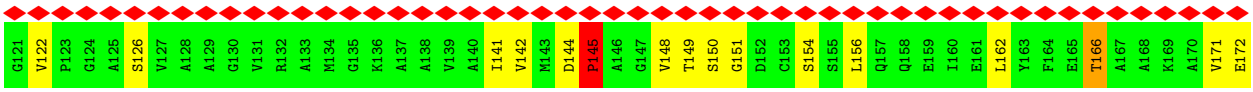
• Molecule 3: C-phycocyanin subunit beta

Chain V2:





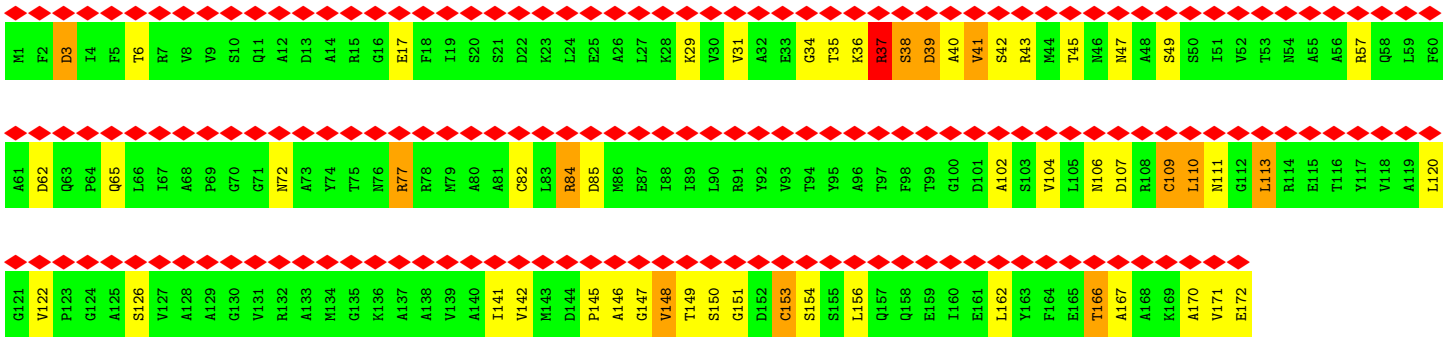




• Molecule 3: C-phycocyanin subunit beta

Chain X2:

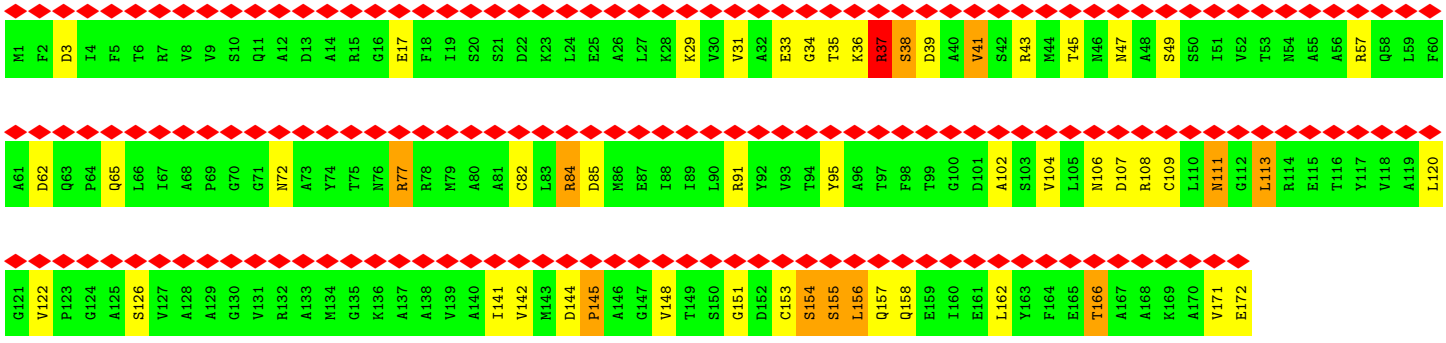




• Molecule 3: C-phycocyanin subunit beta

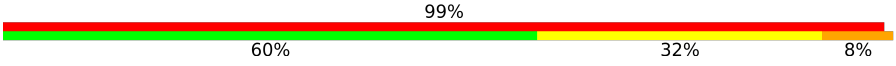
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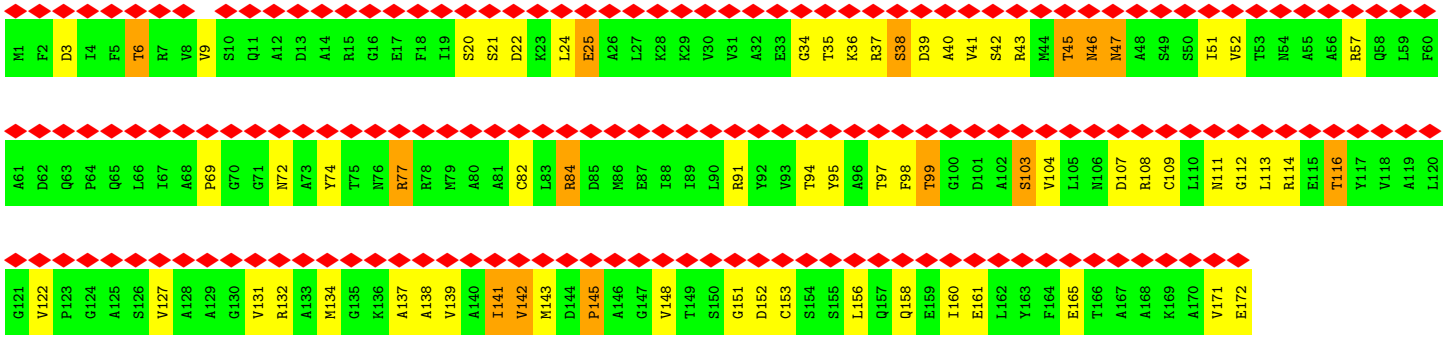




• Molecule 3: C-phycocyanin subunit beta

Chain C4:

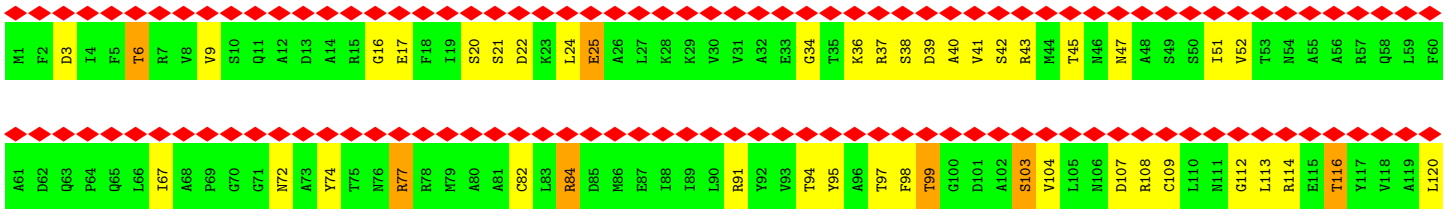


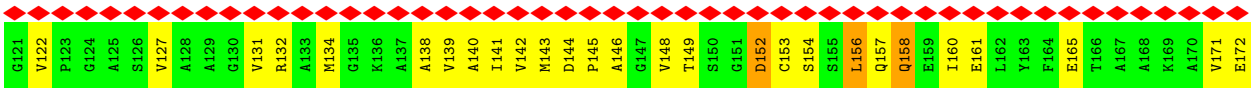


• Molecule 3: C-phycocyanin subunit beta

Chain E4:

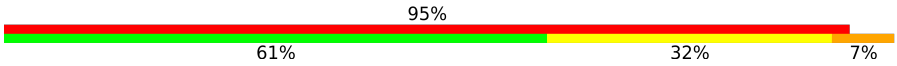


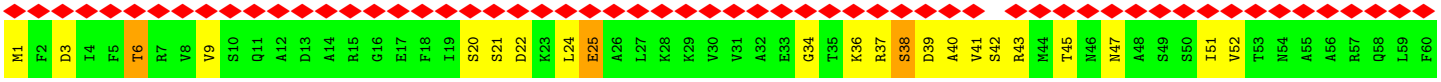


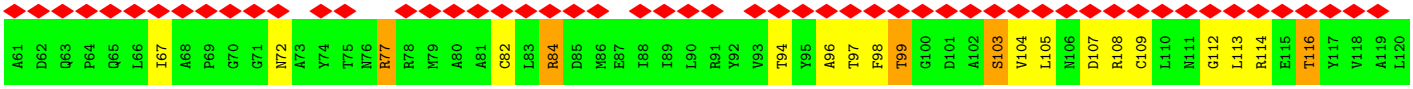


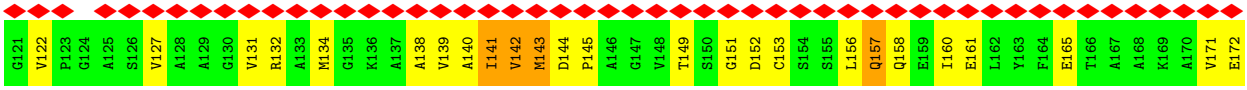
• Molecule 3: C-phycocyanin subunit beta

Chain G4:



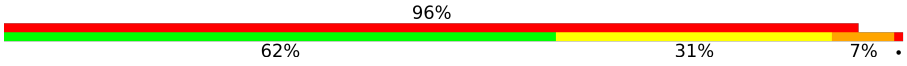


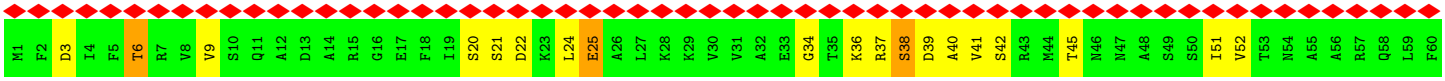


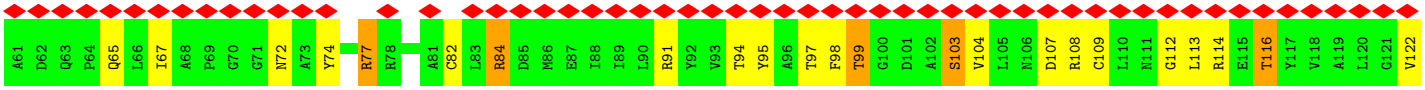


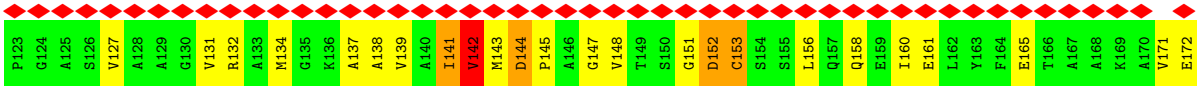
• Molecule 3: C-phycocyanin subunit beta

Chain I4:



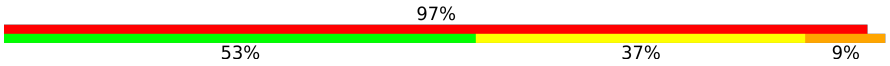


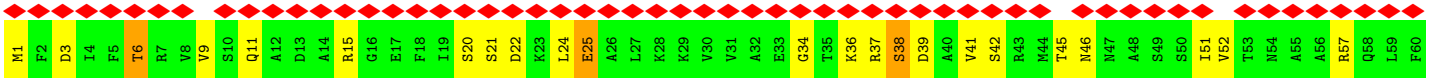


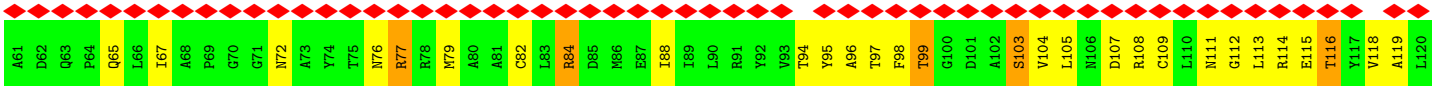


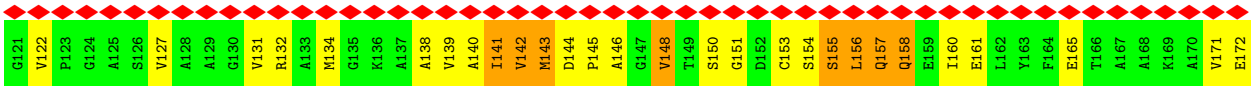
• Molecule 3: C-phycocyanin subunit beta

Chain K4:



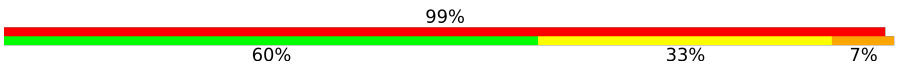


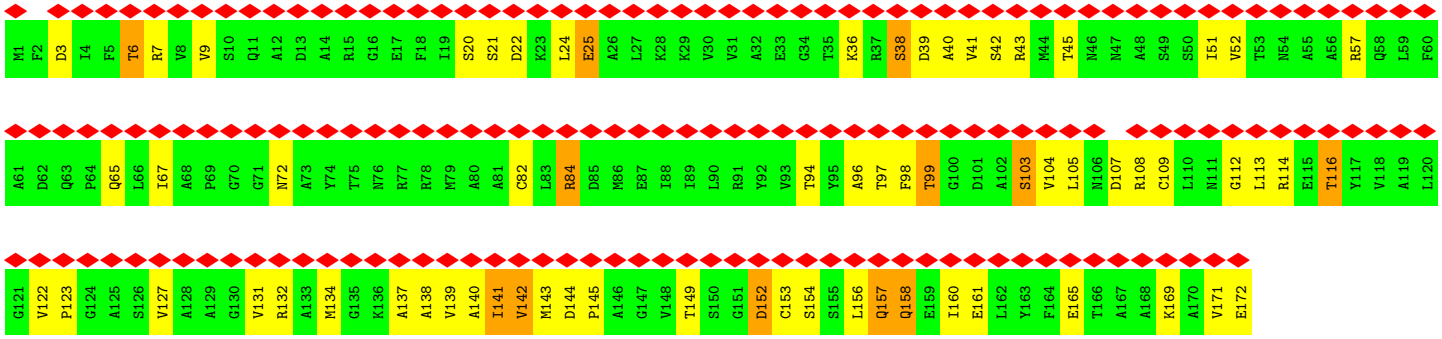




• Molecule 3: C-phycocyanin subunit beta

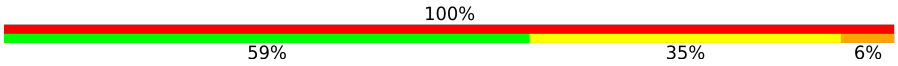
Chain M4:

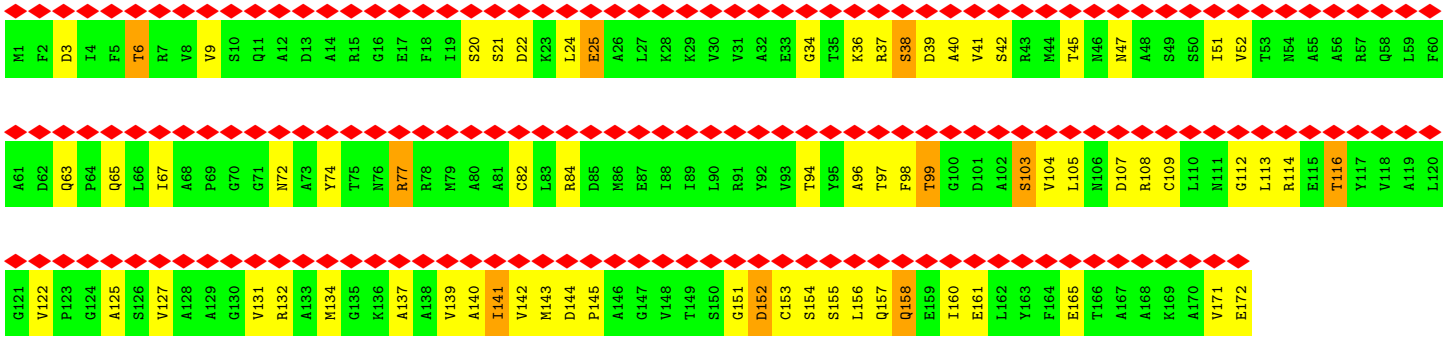




• Molecule 3: C-phycocyanin subunit beta

Chain P4:

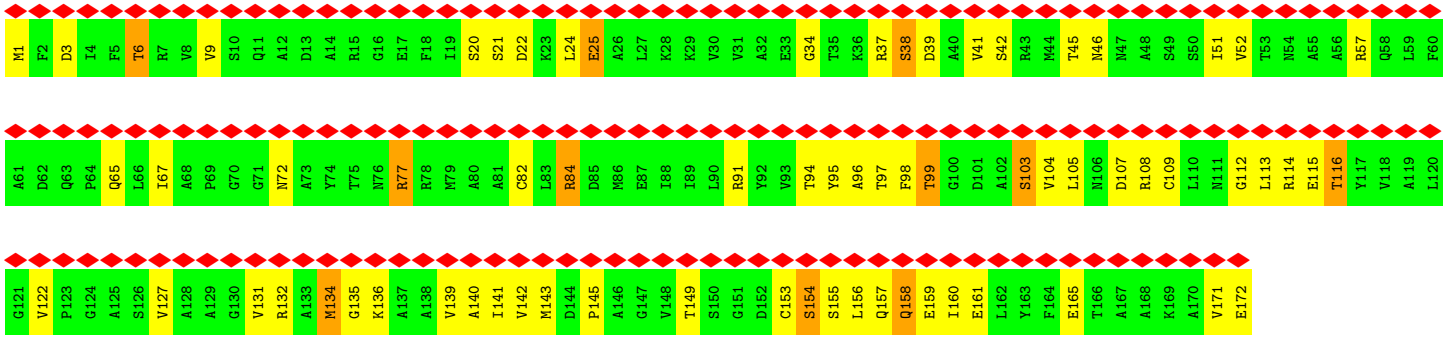




• Molecule 3: C-phycocyanin subunit beta

Chain R4:



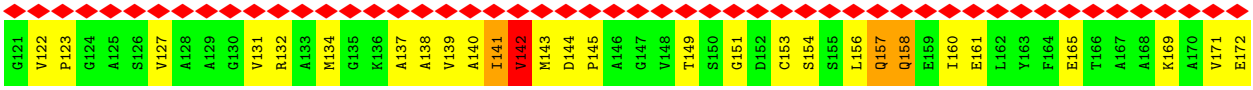


• Molecule 3: C-phycocyanin subunit beta

Chain T4:

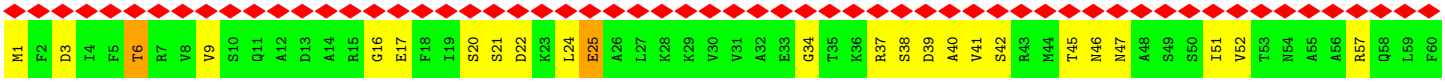


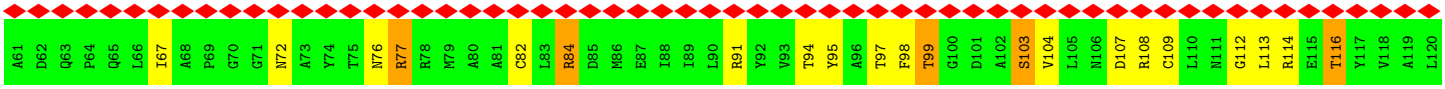


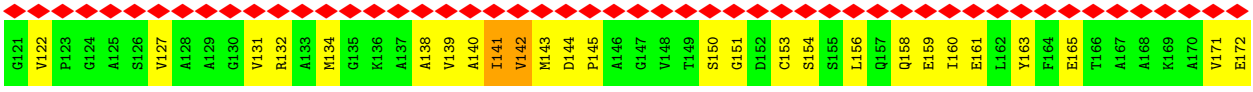


• Molecule 3: C-phycocyanin subunit beta



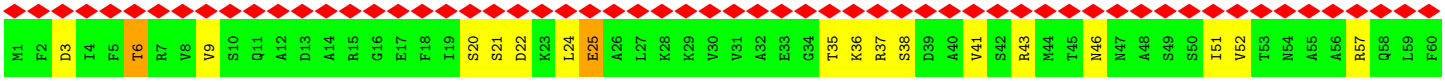


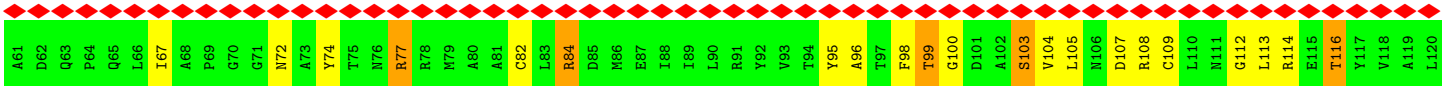


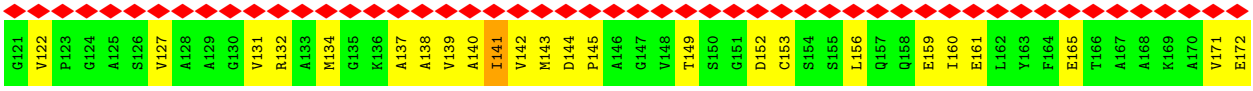


• Molecule 3: C-phycocyanin subunit beta



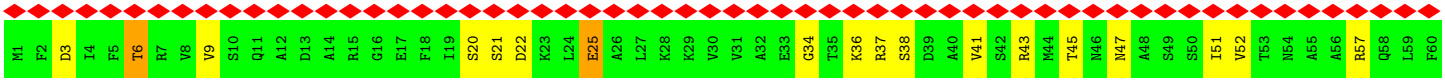


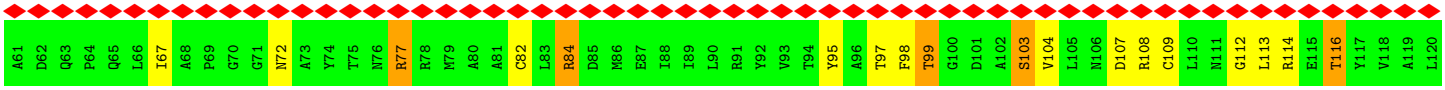


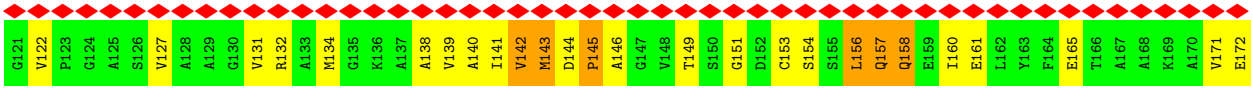


• Molecule 3: C-phycocyanin subunit beta

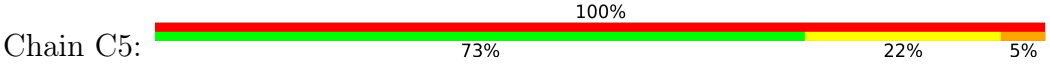


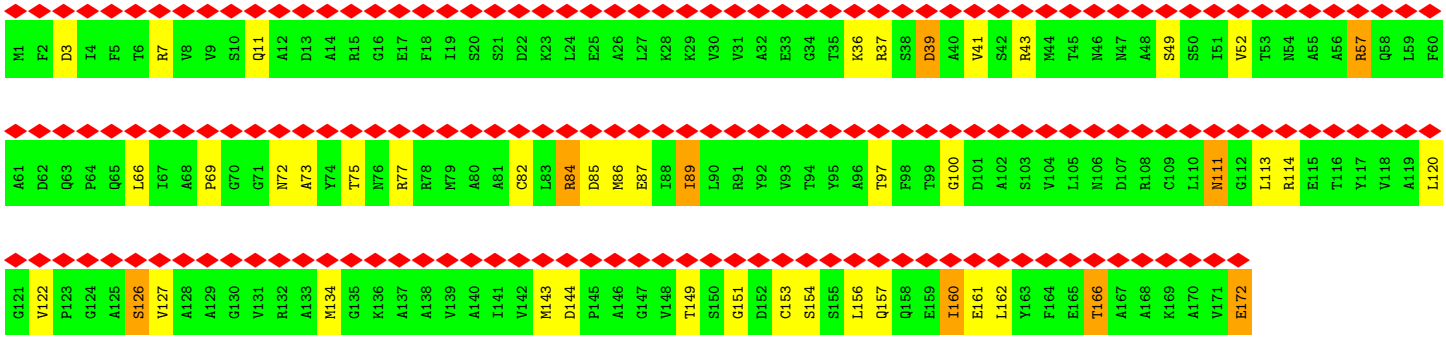






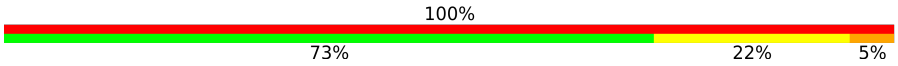
• Molecule 3: C-phycocyanin subunit beta

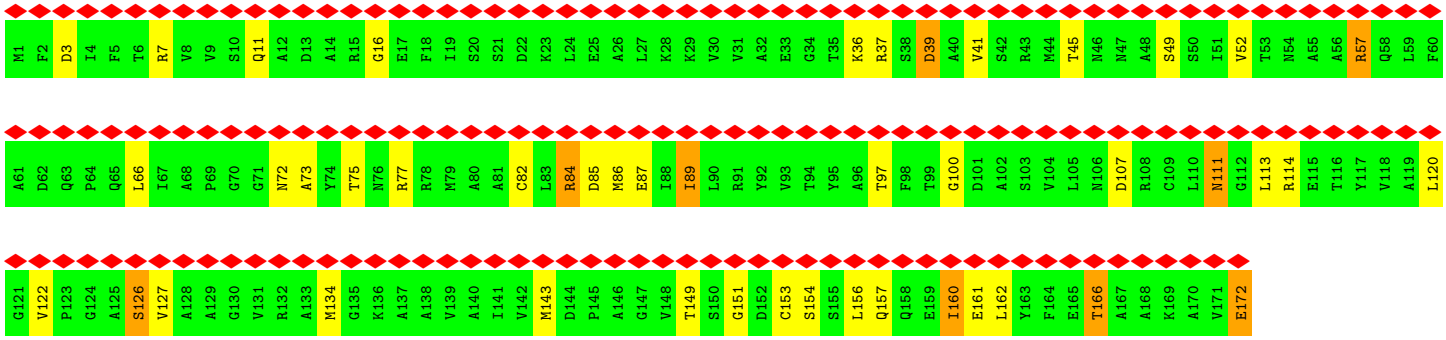




• Molecule 3: C-phycocyanin subunit beta

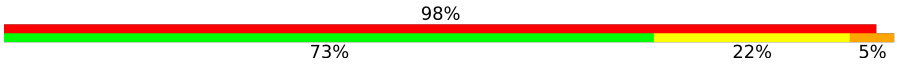
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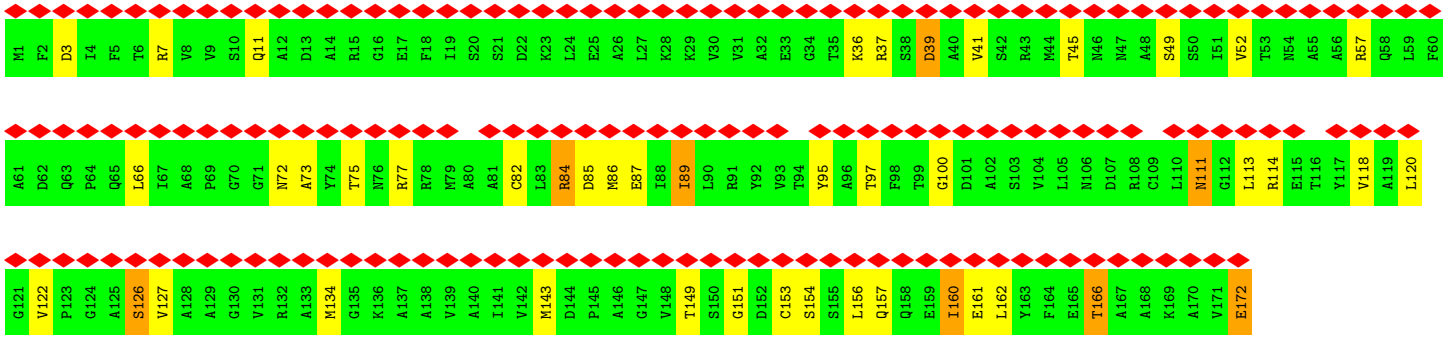




• Molecule 3: C-phycocyanin subunit beta

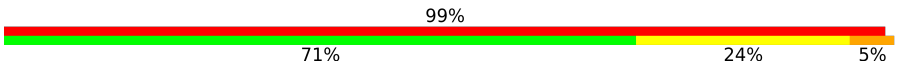
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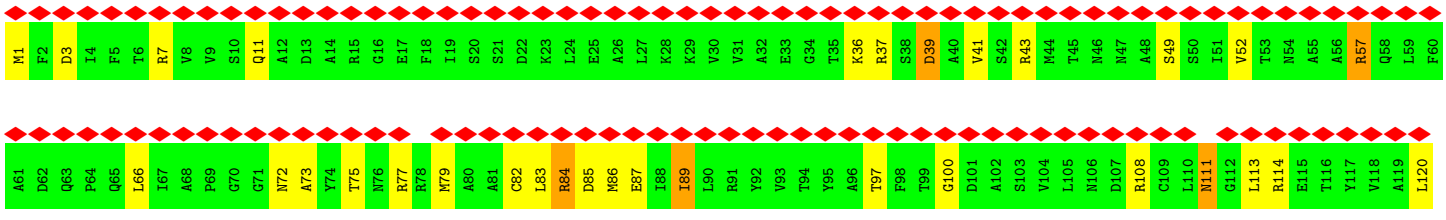


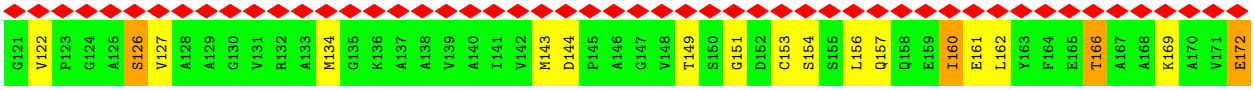


• Molecule 3: C-phycocyanin subunit beta

Chain I5:



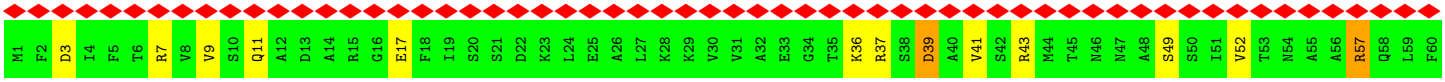


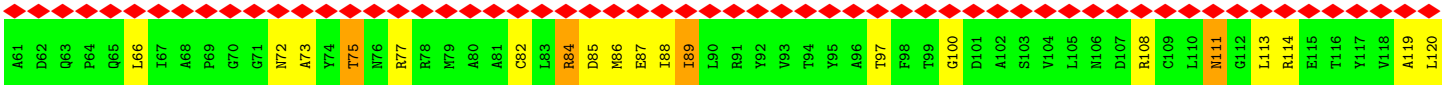


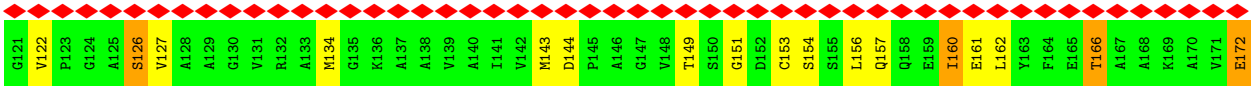
• Molecule 3: C-phycocyanin subunit beta

Chain K5:





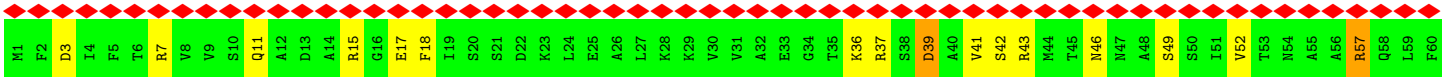


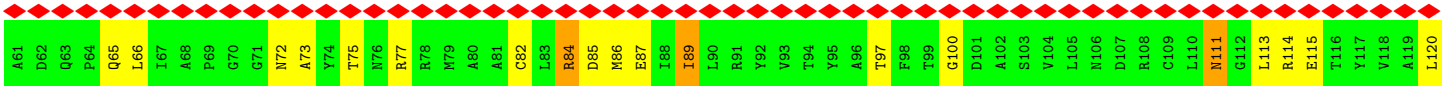


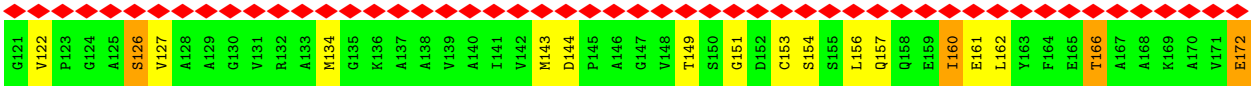
• Molecule 3: C-phycocyanin subunit beta

Chain M5:





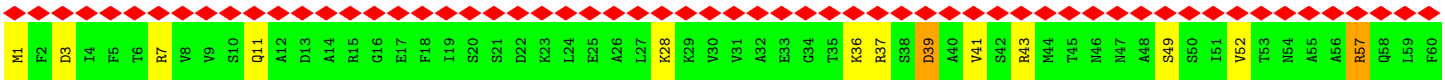


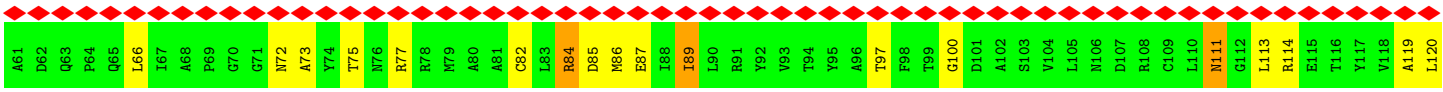


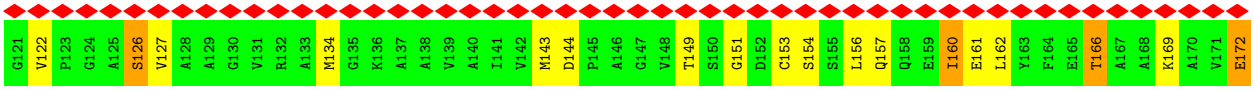
• Molecule 3: C-phycocyanin subunit beta

Chain P5:





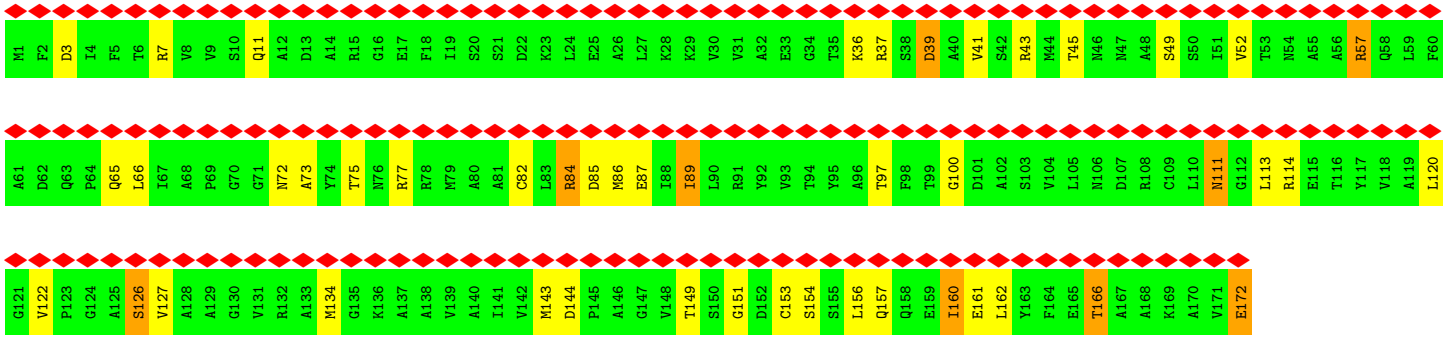




• Molecule 3: C-phycocyanin subunit beta

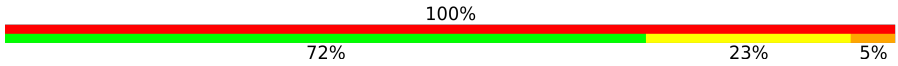
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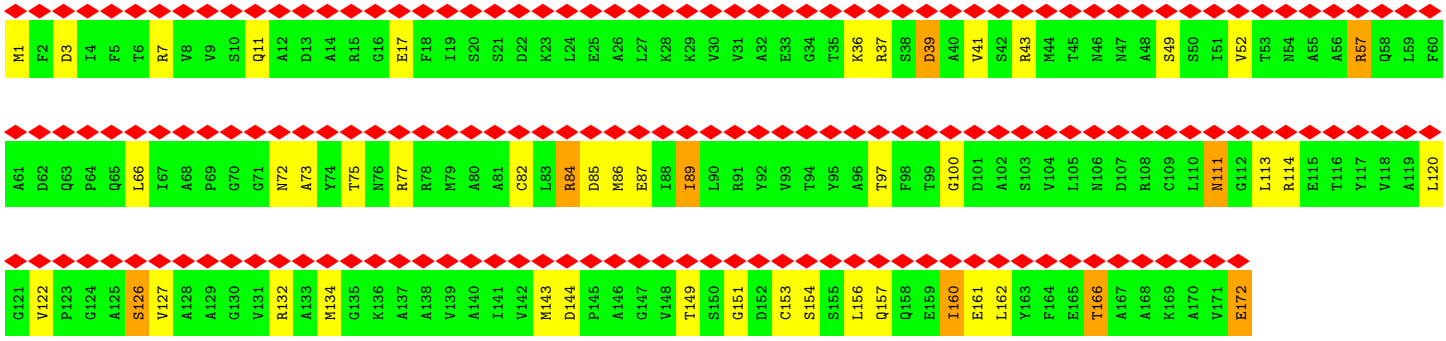




• Molecule 3: C-phycocyanin subunit beta

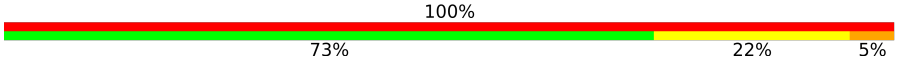
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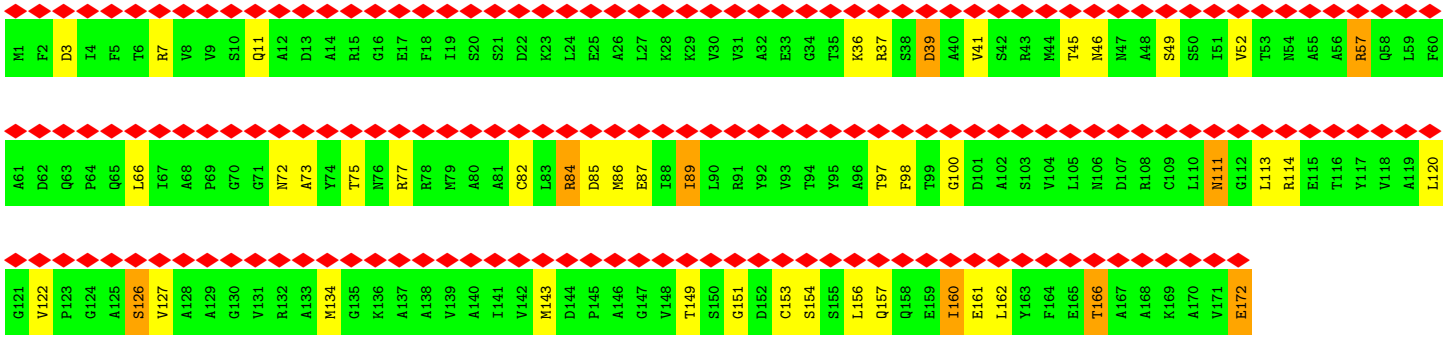




• Molecule 3: C-phycocyanin subunit beta

Chain V5:

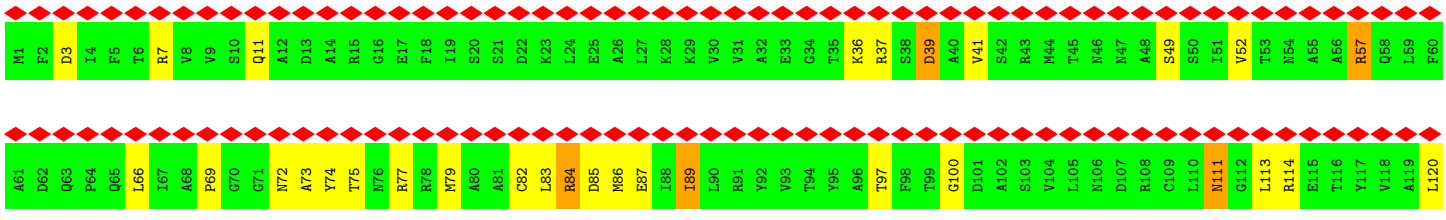


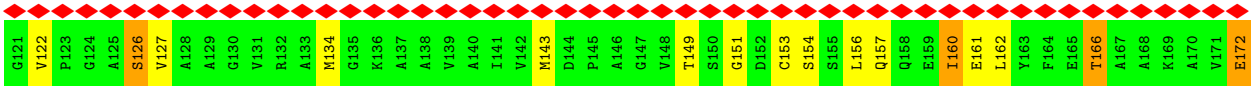


• Molecule 3: C-phycocyanin subunit beta

Chain X5:

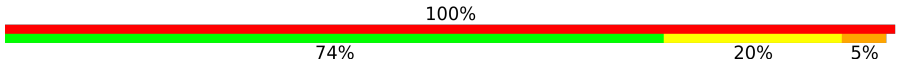


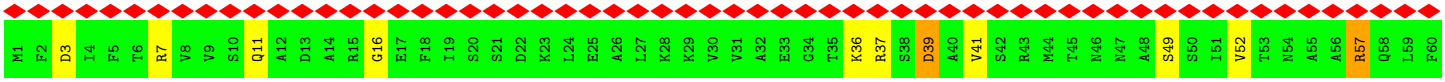


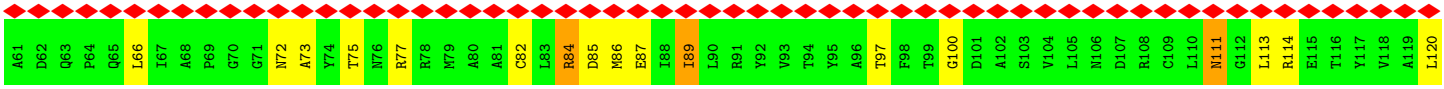


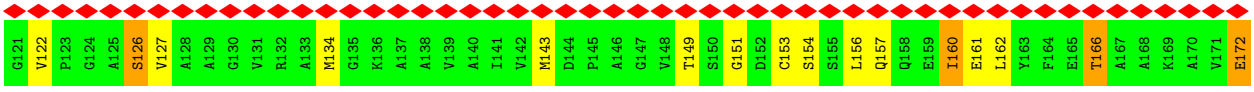
• Molecule 3: C-phycocyanin subunit beta

Chain Z5:





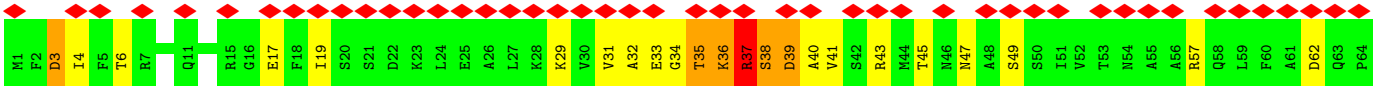




• Molecule 3: C-phycocyanin subunit beta

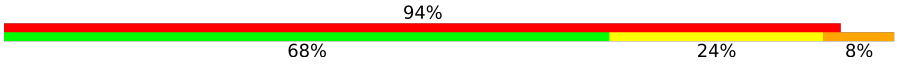
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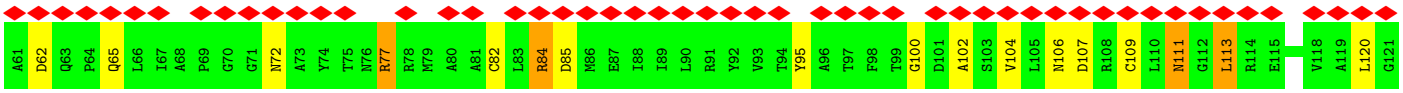


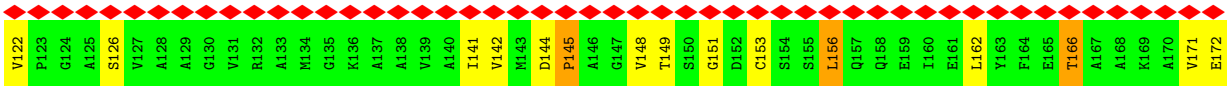
• Molecule 3: C-phycocyanin subunit beta

Chain E6:



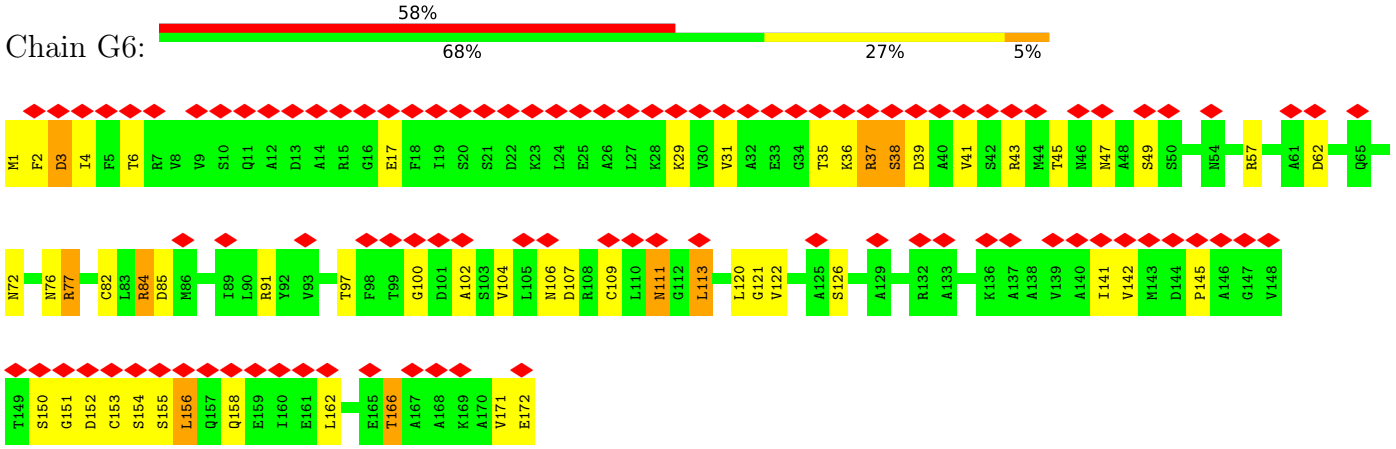






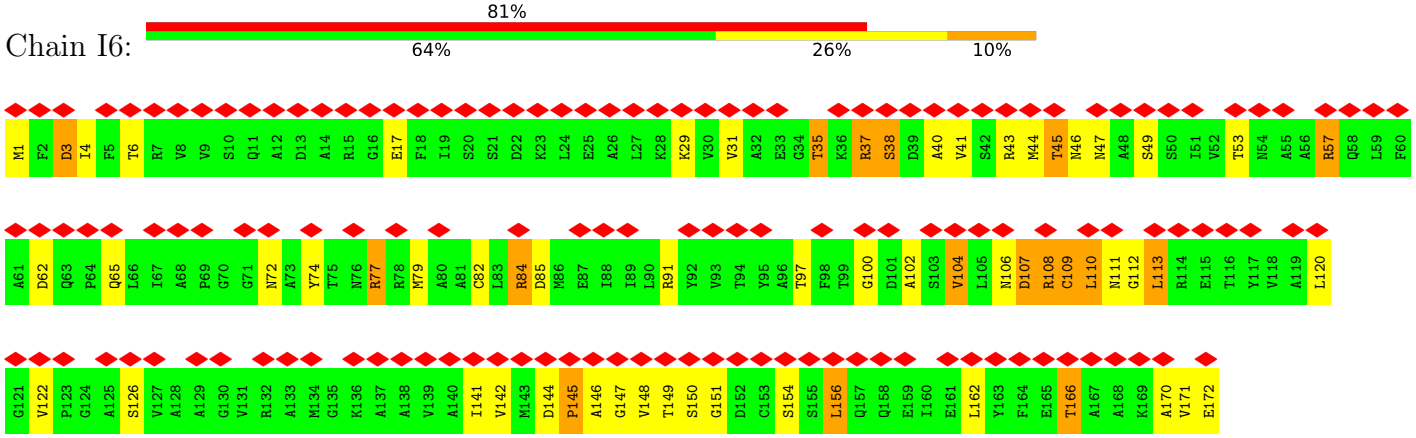
• Molecule 3: C-phycocyanin subunit beta

Chain G6:



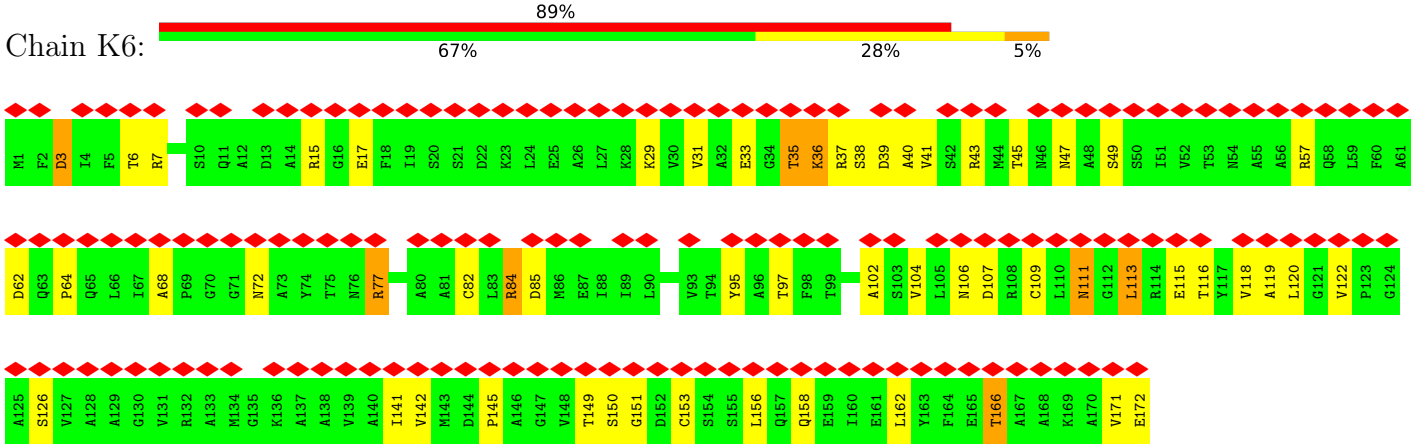
• Molecule 3: C-phycocyanin subunit beta

Chain I6:



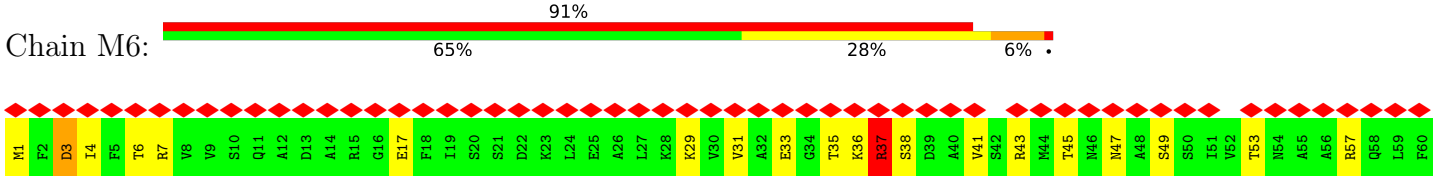
• Molecule 3: C-phycocyanin subunit beta

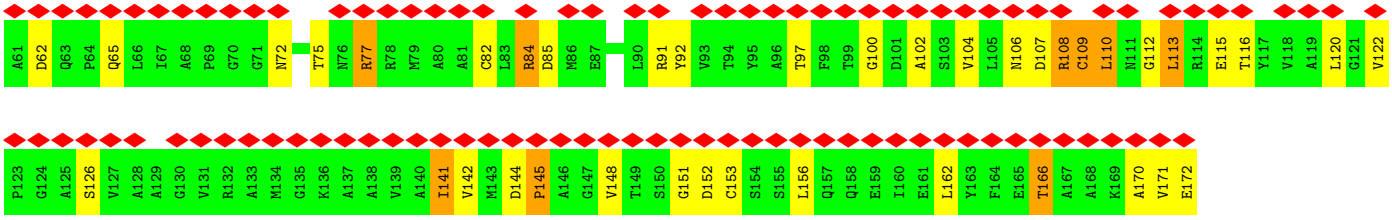
Chain K6:



• Molecule 3: C-phycocyanin subunit beta

Chain M6:

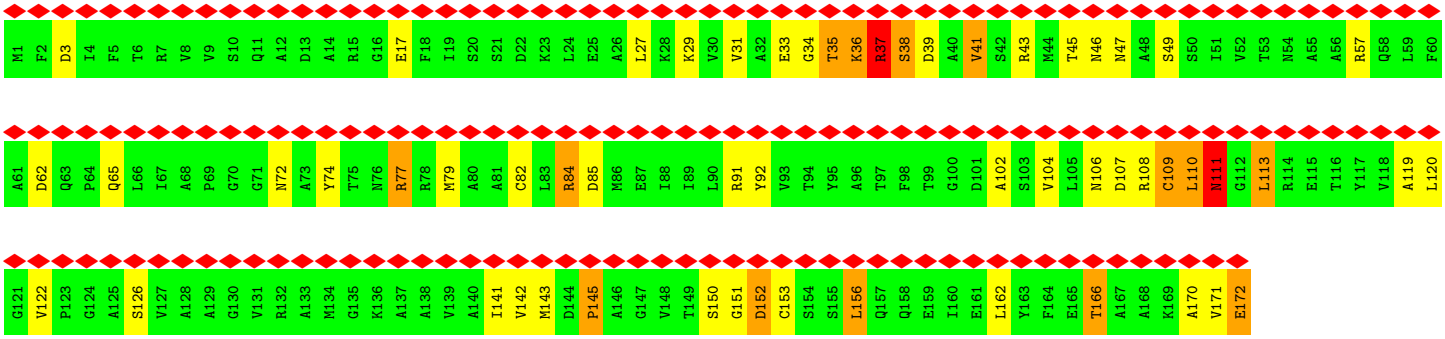




• Molecule 3: C-phycocyanin subunit beta

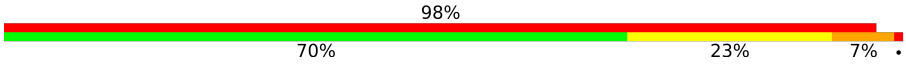
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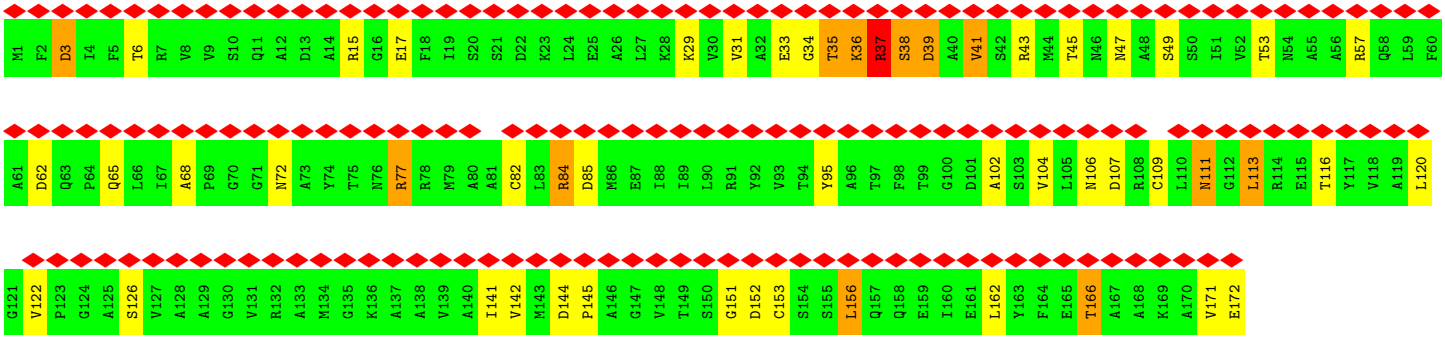




• Molecule 3: C-phycocyanin subunit beta

Chain R6:

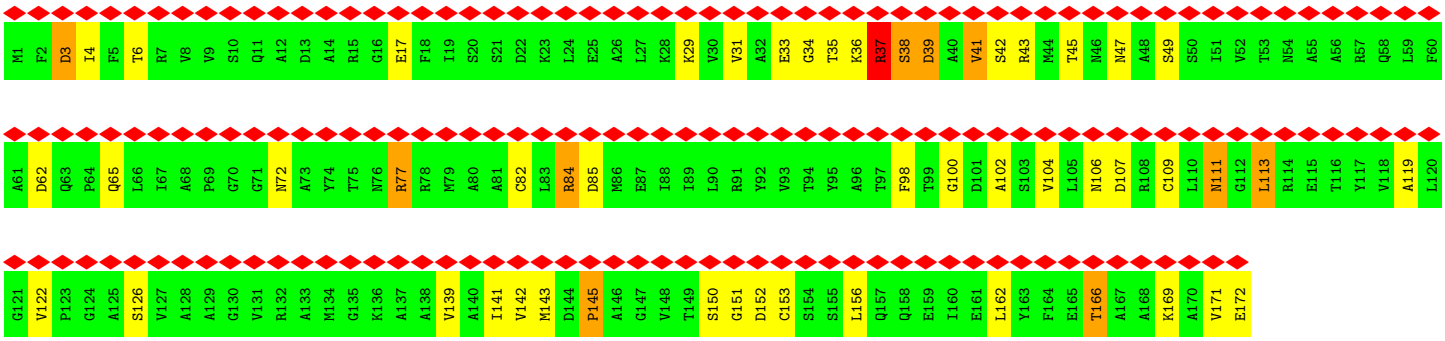




• Molecule 3: C-phycocyanin subunit beta

Chain T6:

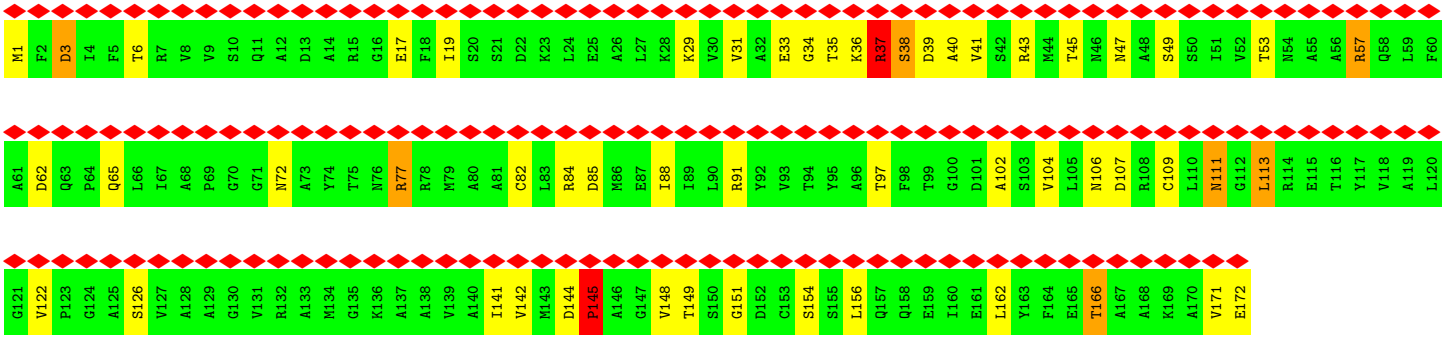




• Molecule 3: C-phycocyanin subunit beta

Chain V6:

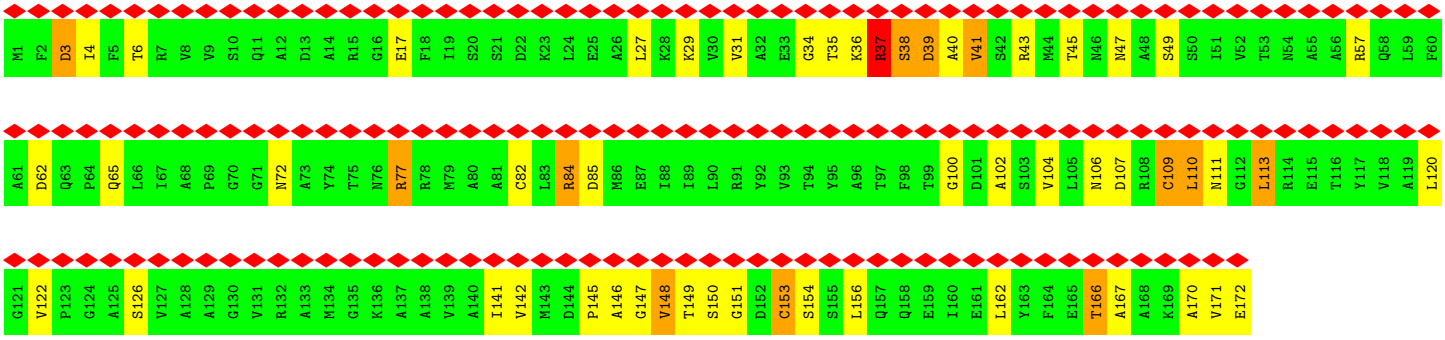




• Molecule 3: C-phycocyanin subunit beta

Chain X6:

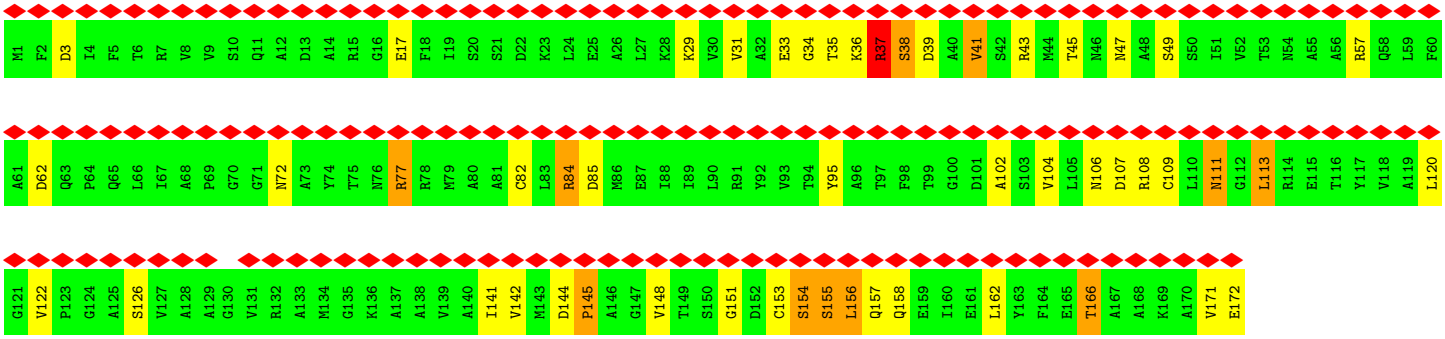




• Molecule 3: C-phycocyanin subunit beta

Chain Z6:

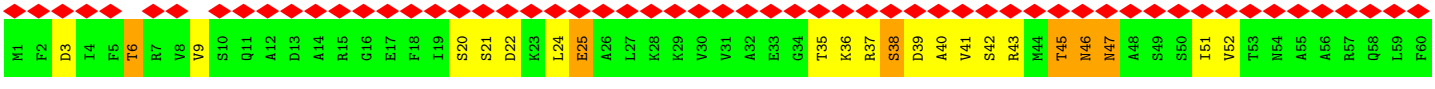


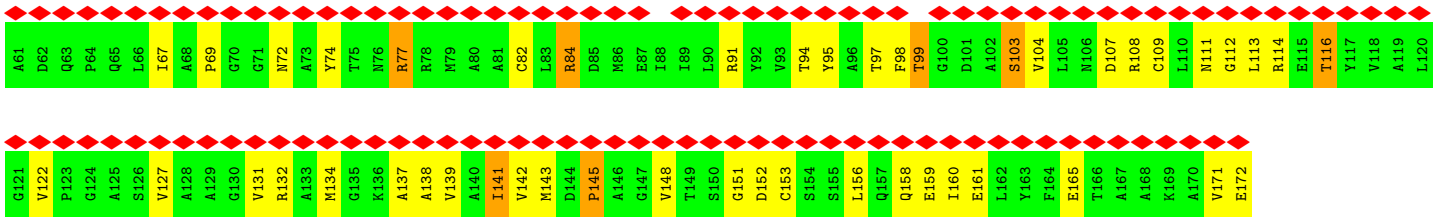


• Molecule 3: C-phycocyanin subunit beta

Chain C8:



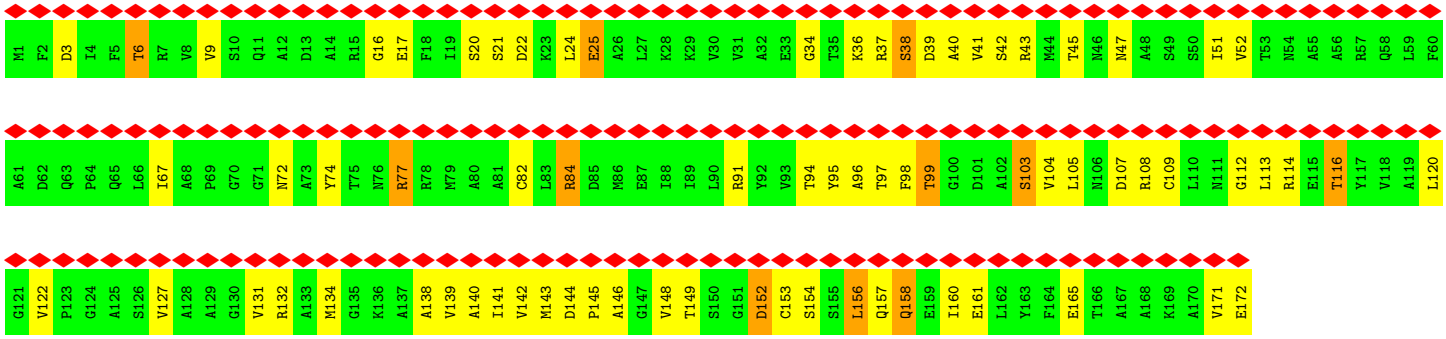




• Molecule 3: C-phycocyanin subunit beta

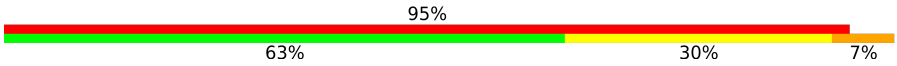
Chain E8:

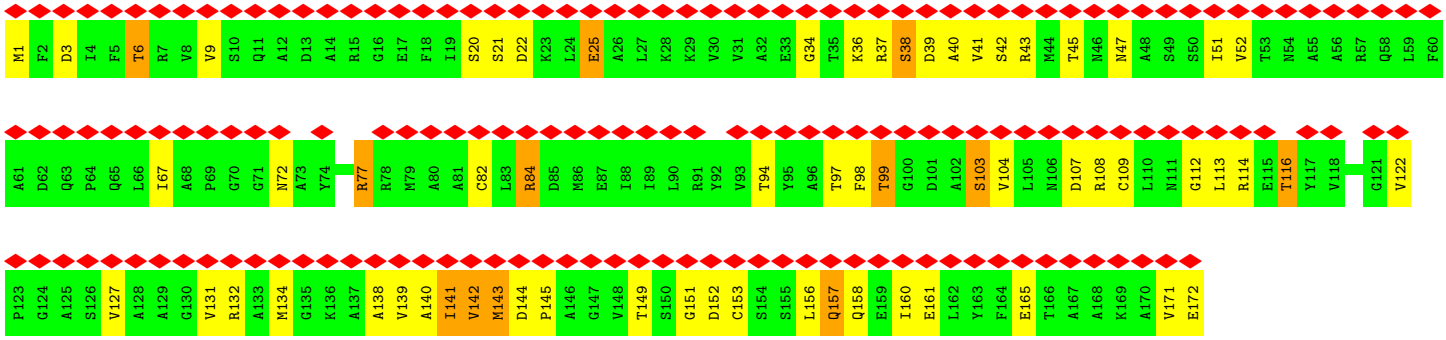




• Molecule 3: C-phycocyanin subunit beta

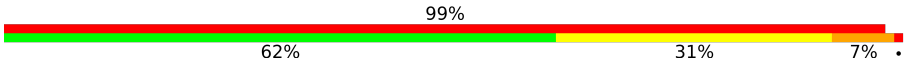
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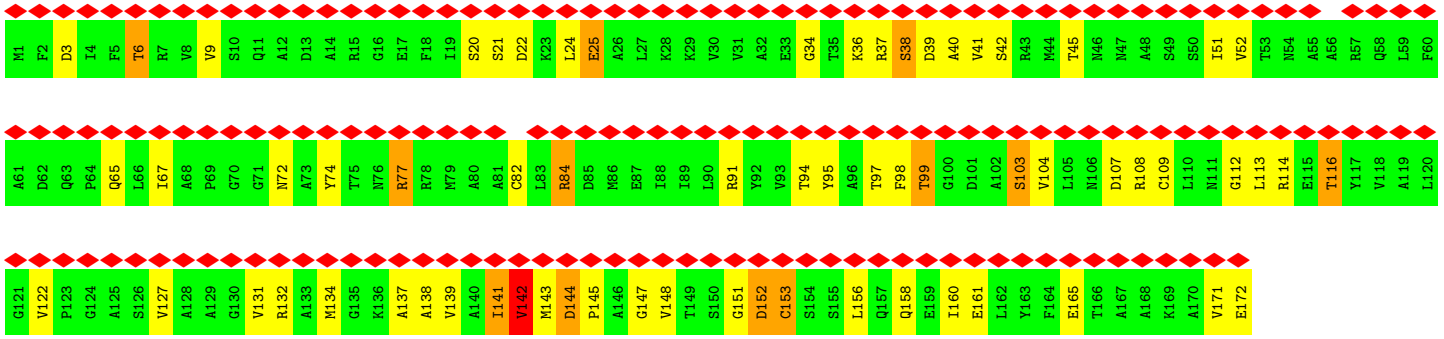




• Molecule 3: C-phycocyanin subunit beta

Chain I8:

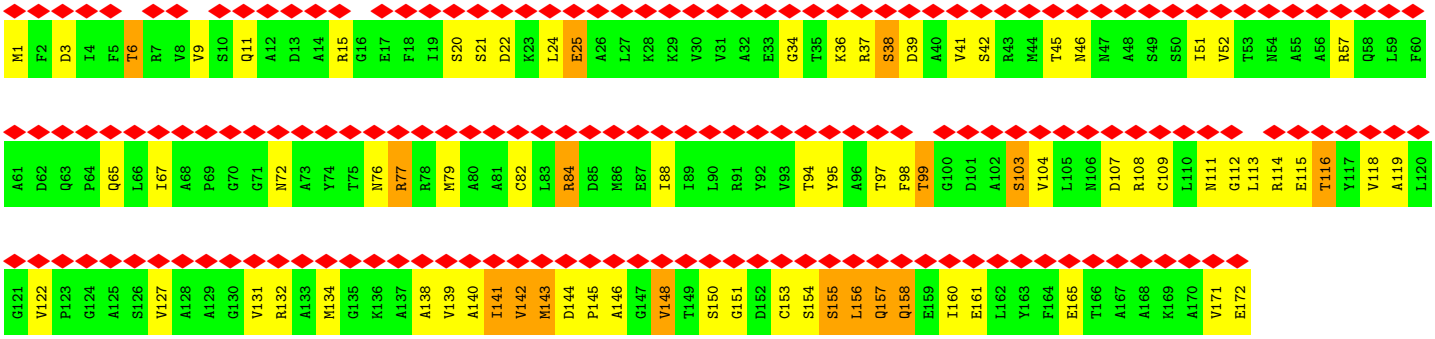




• Molecule 3: C-phycocyanin subunit beta

Chain K8:

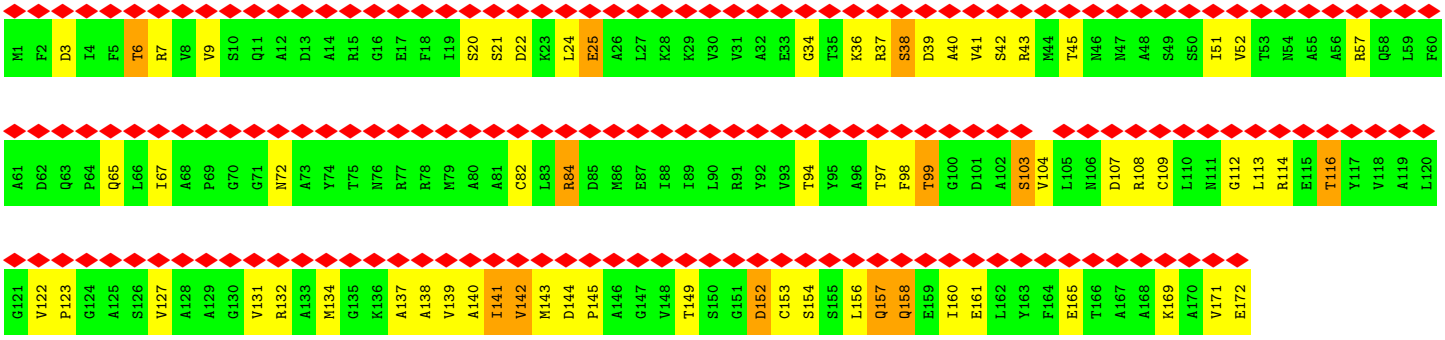




• Molecule 3: C-phycocyanin subunit beta

Chain M8:

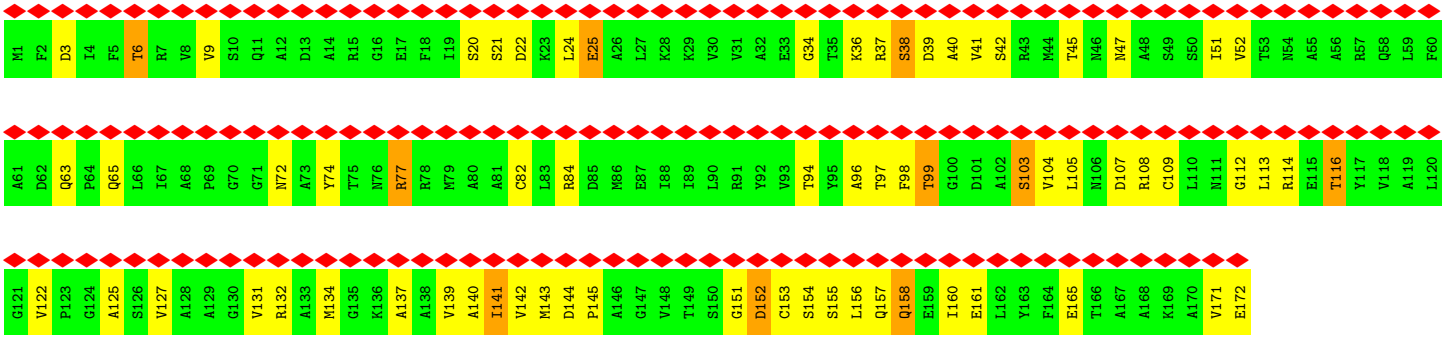




• Molecule 3: C-phycocyanin subunit beta

Chain P8:

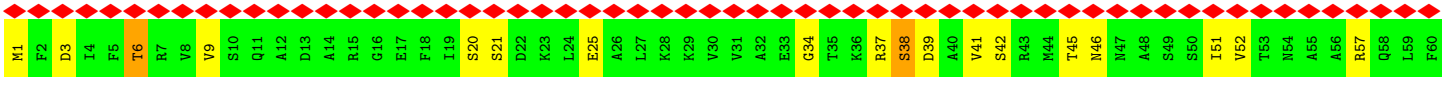


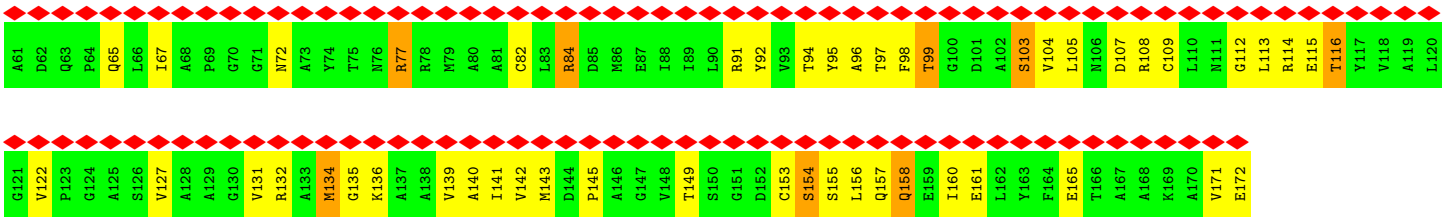


• Molecule 3: C-phycocyanin subunit beta

Chain R8:



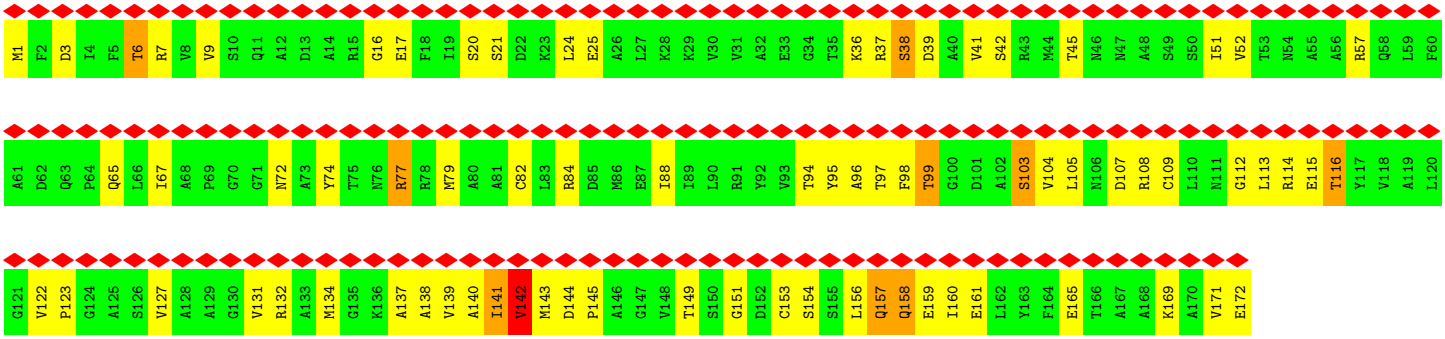




• Molecule 3: C-phycocyanin subunit beta

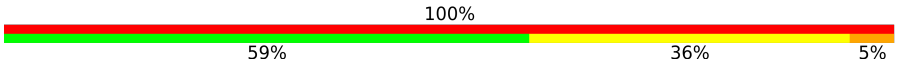
Chain T8:

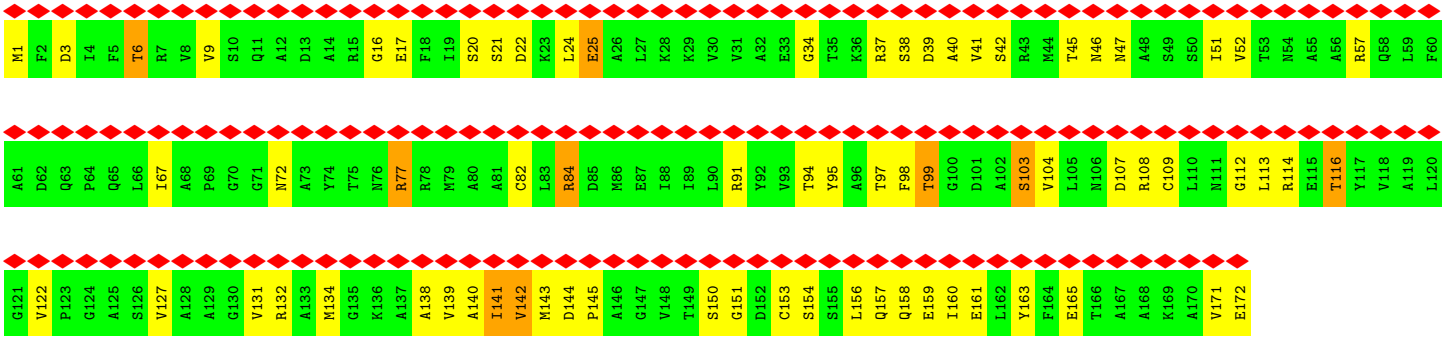




• Molecule 3: C-phycocyanin subunit beta

Chain V8:

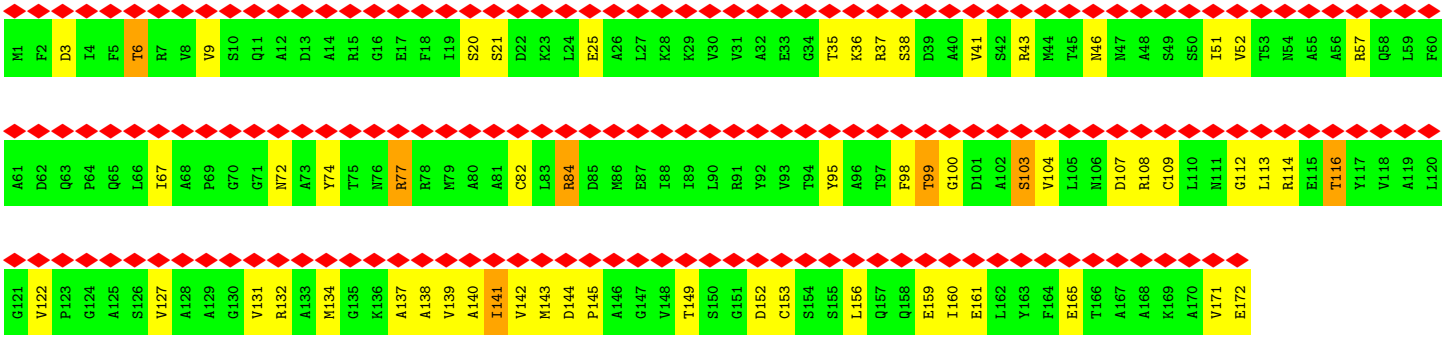




• Molecule 3: C-phycocyanin subunit beta

Chain X8:

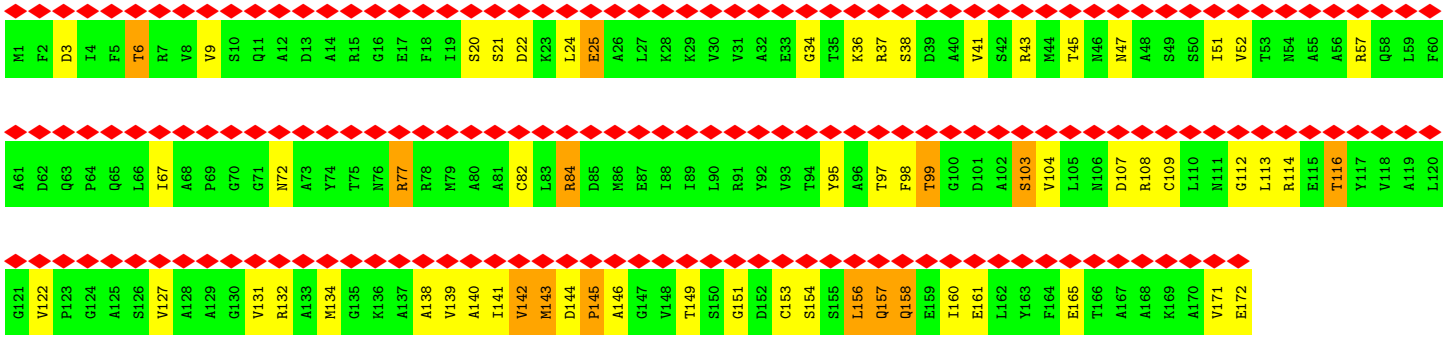




• Molecule 3: C-phycocyanin subunit beta

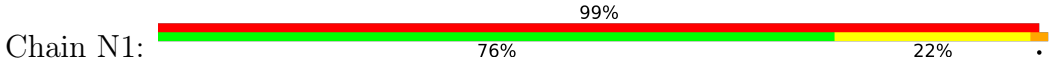
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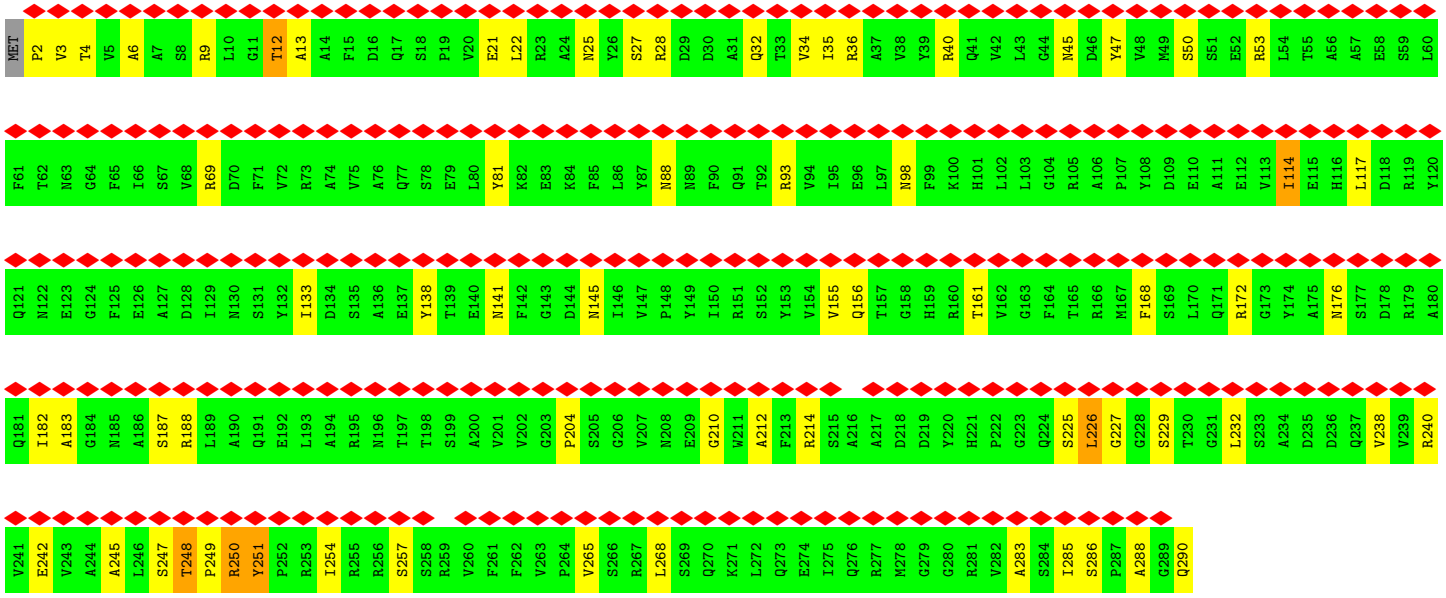




• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

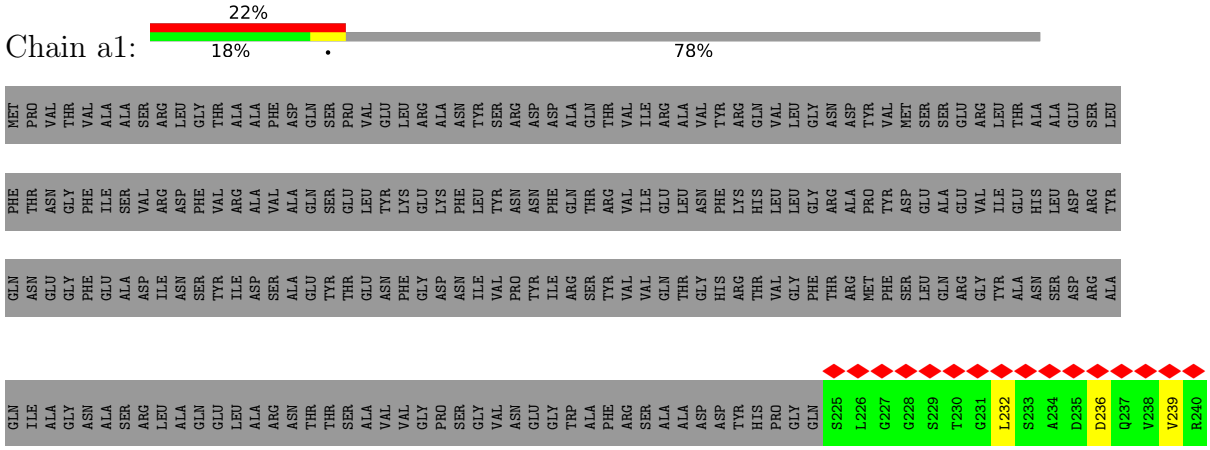
Chain N1:

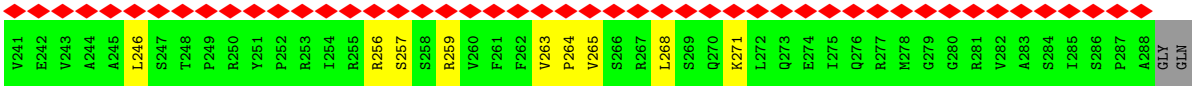




• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

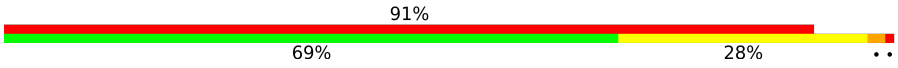
Chain a1:

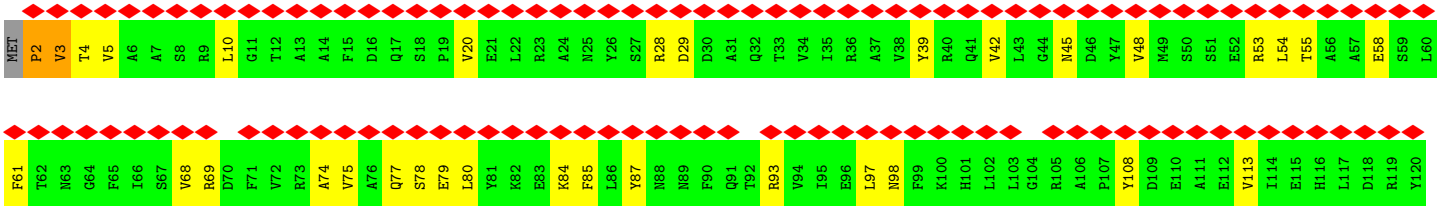




• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

Chain N2:

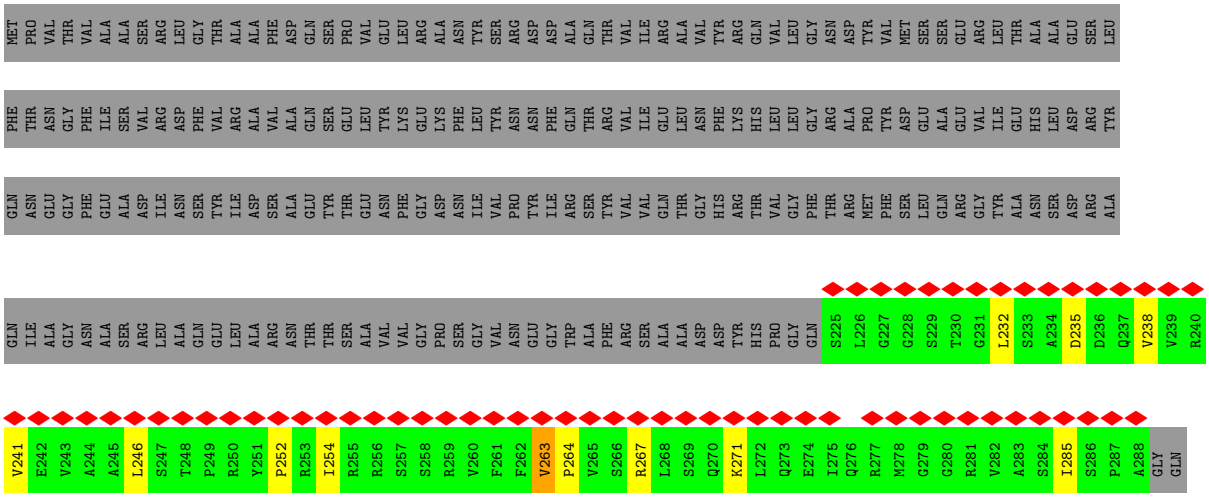




• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

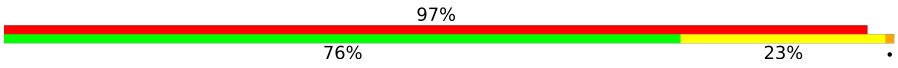
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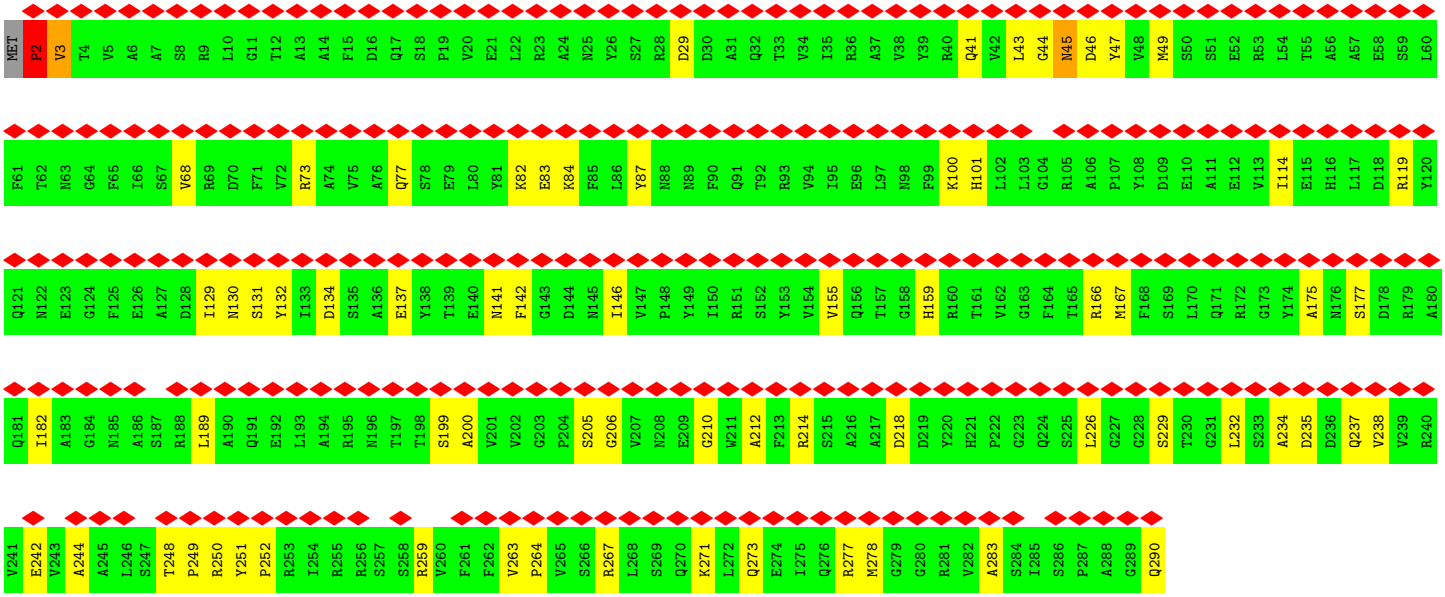




• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

Chain N4:

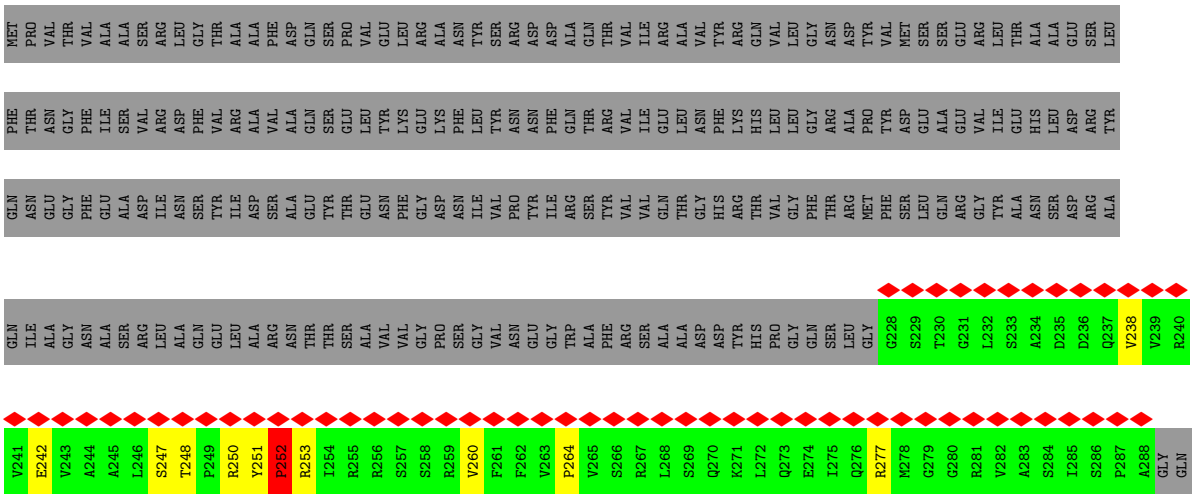




• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

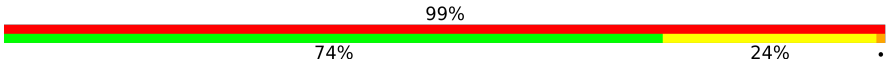
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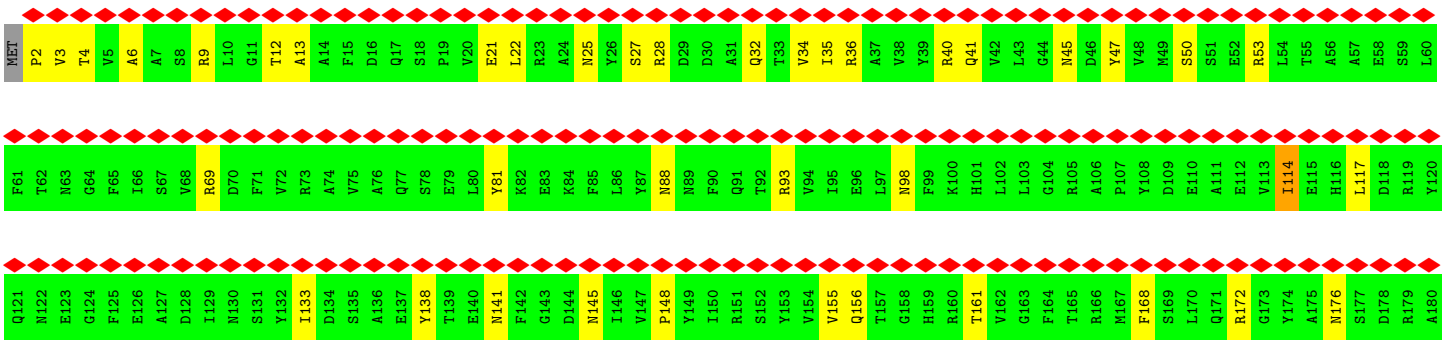


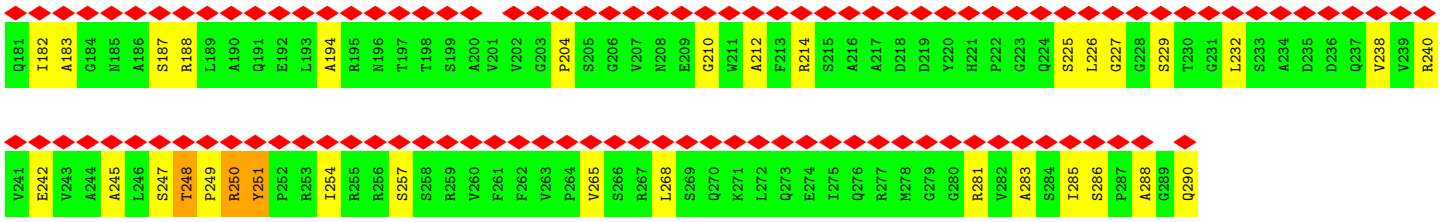


• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

Chain N5:



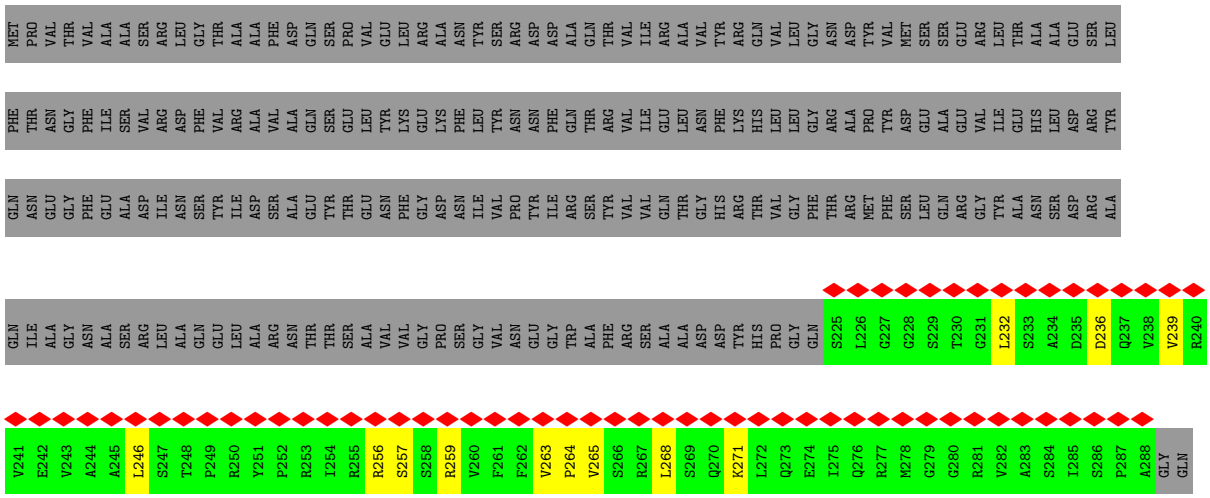




• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

Chain a5:

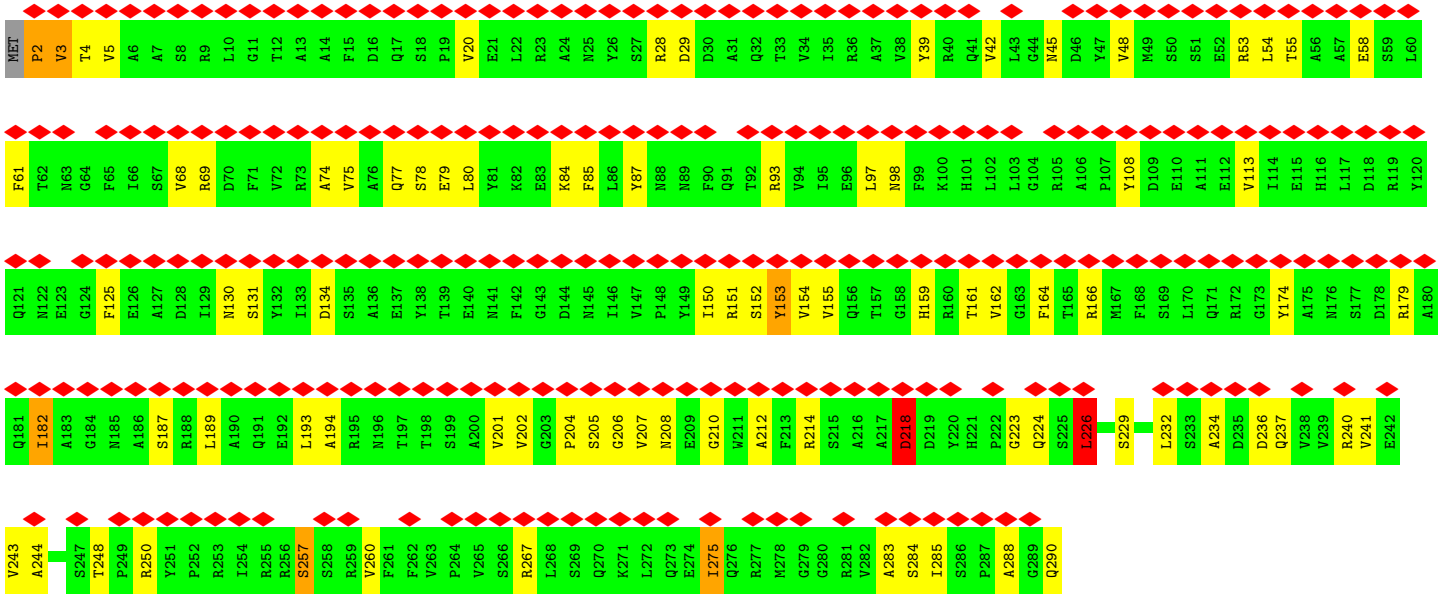




• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

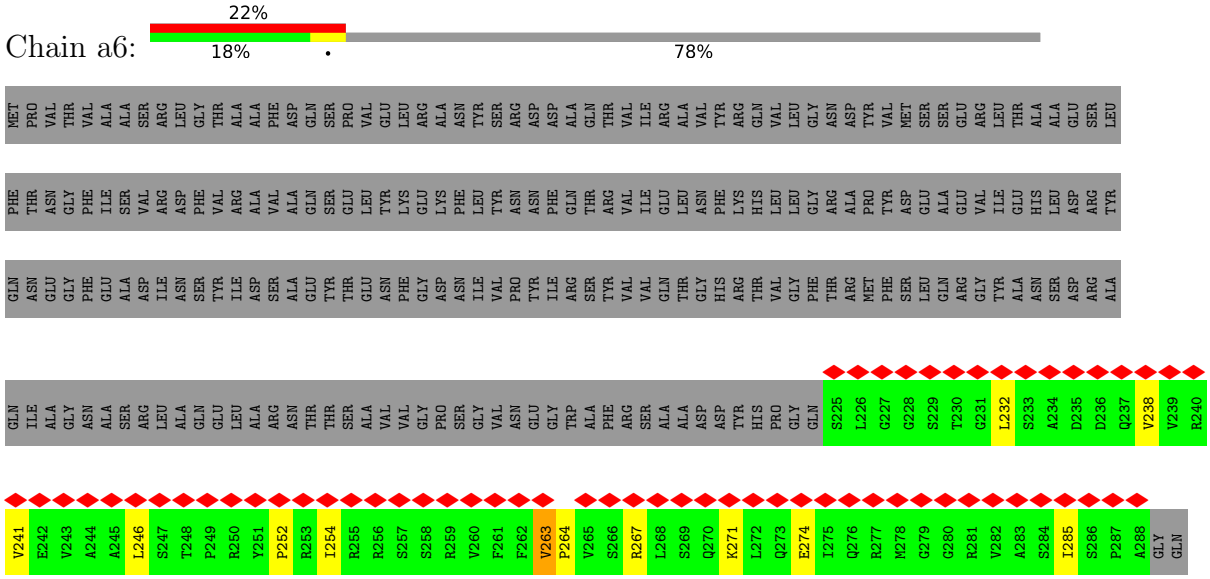
Chain N6:





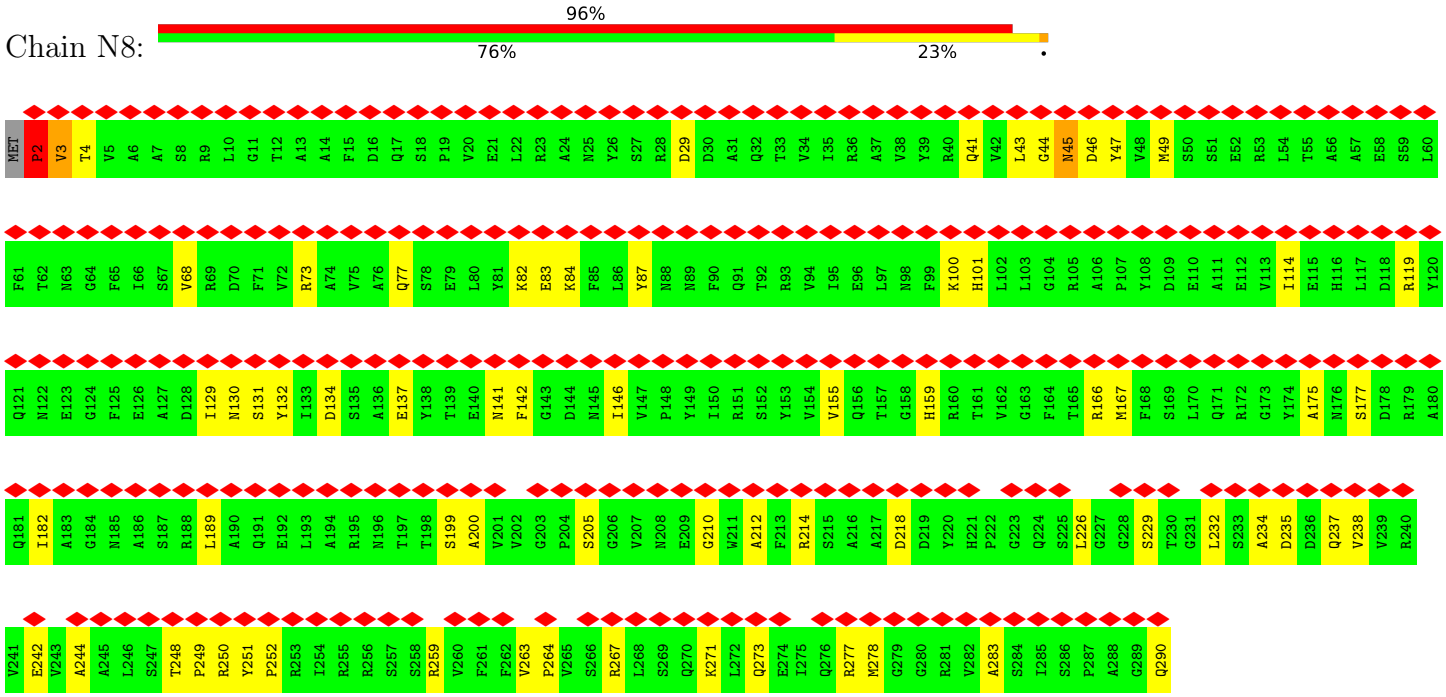
• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

Chain a6:



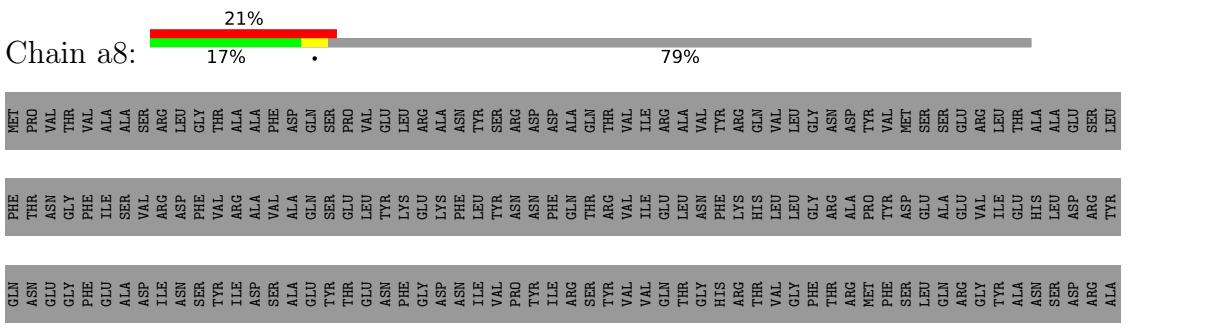
• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

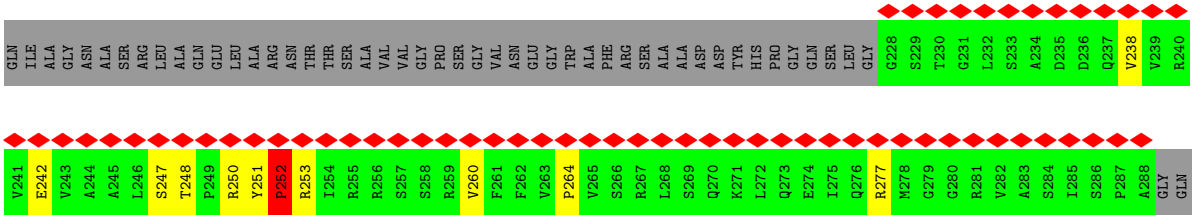
Chain N8:



• Molecule 4: Phycobilisome 32.3 kDa linker polypeptide, phycocyanin-associated, rod

Chain a8:

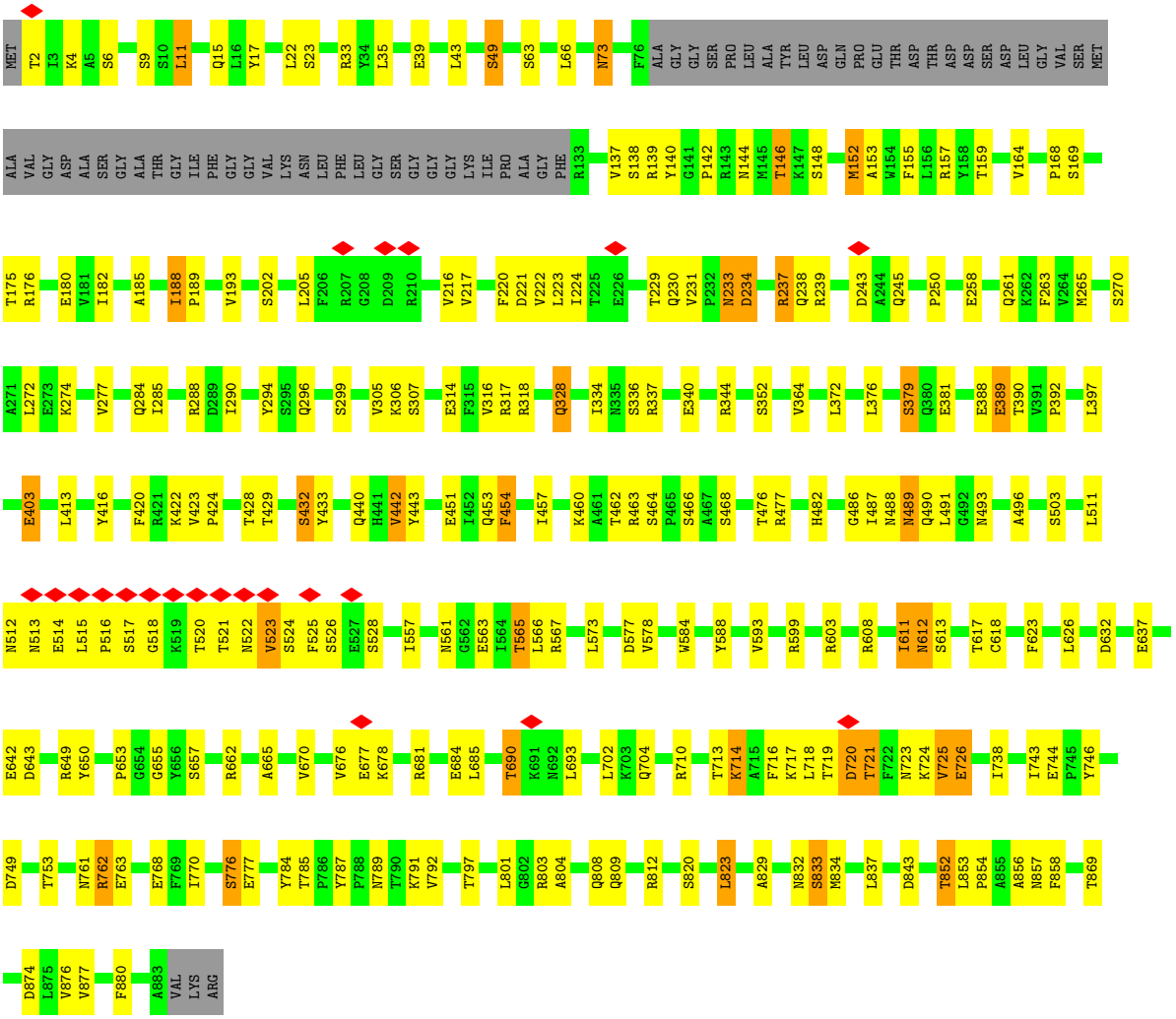




• Molecule 5: Phycobiliprotein ApcE

Chain 03:

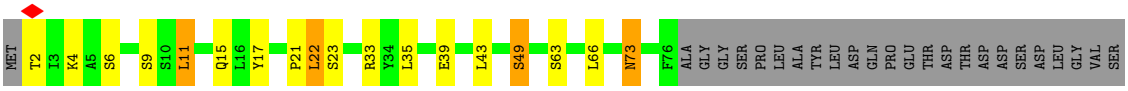


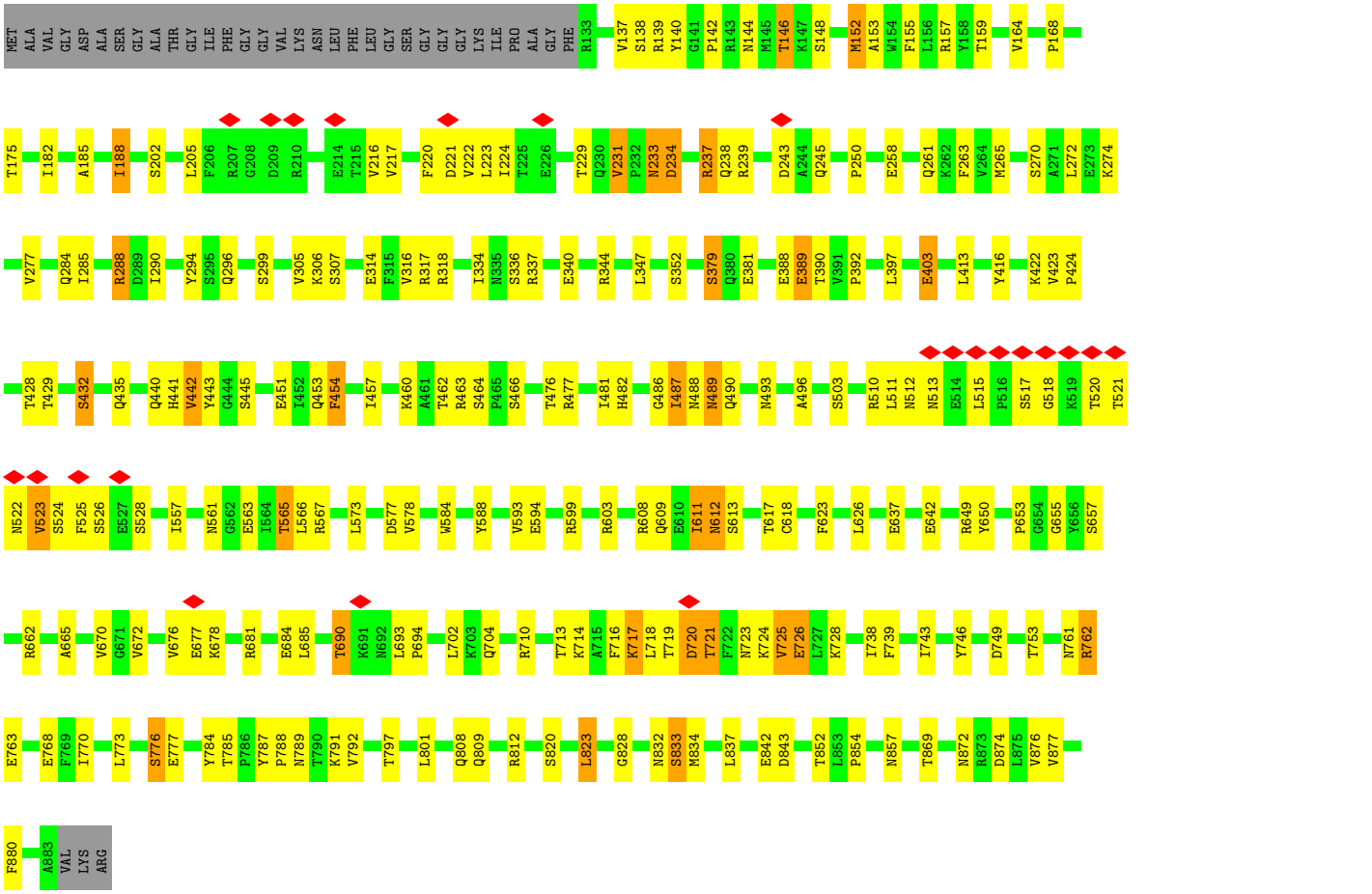


• Molecule 5: Phycobiliprotein ApcE

Chain 13:



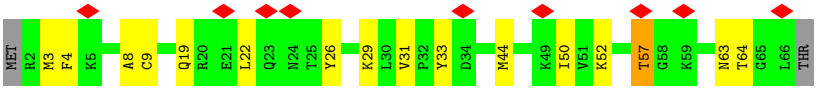




• Molecule 6: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain 23:

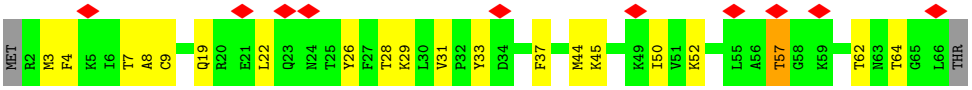




• Molecule 6: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

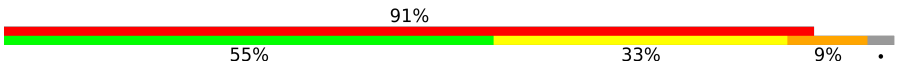
Chain 33:

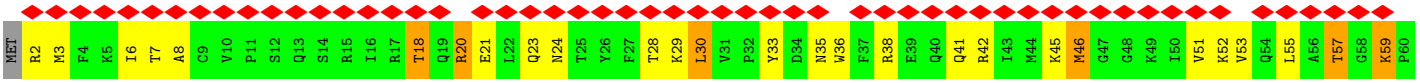


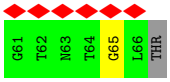


• Molecule 6: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain G7:

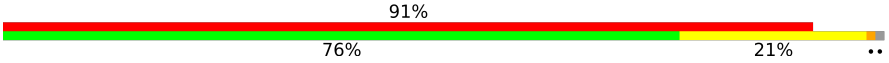


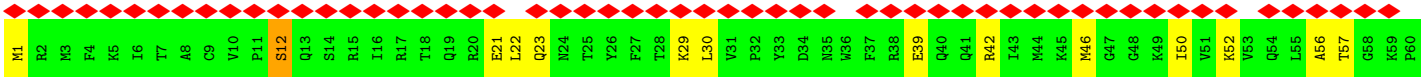


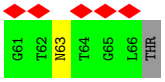


• Molecule 6: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain N7:



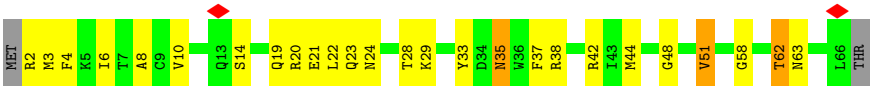




• Molecule 6: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain U7:

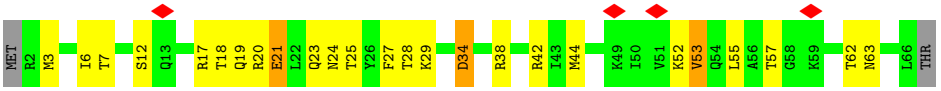




• Molecule 6: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain b7:





• Molecule 7: Allophycocyanin alpha subunit

Chain G3:

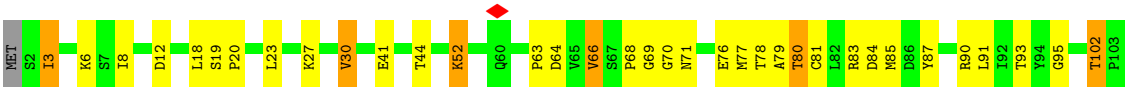


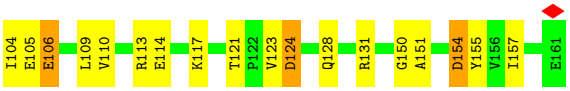


• Molecule 7: Allophycocyanin alpha subunit

Chain I3:

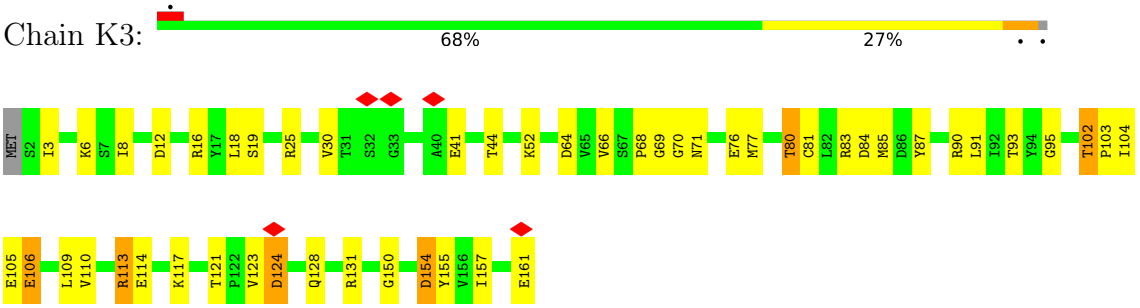






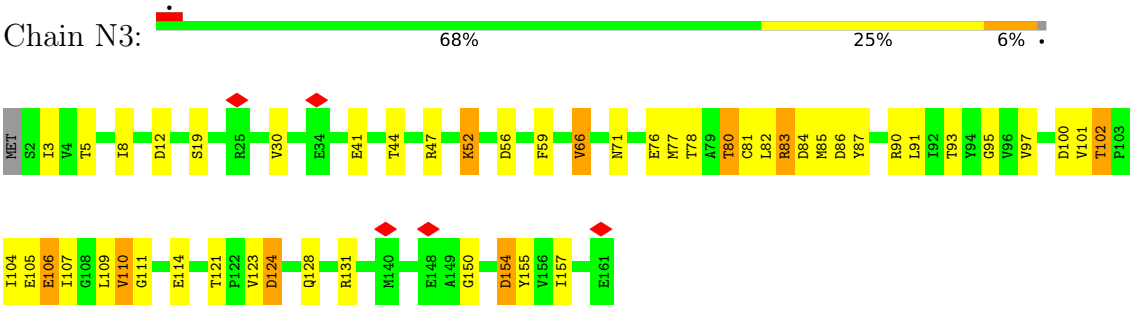
• Molecule 7: Allophycocyanin alpha subunit

Chain K3:



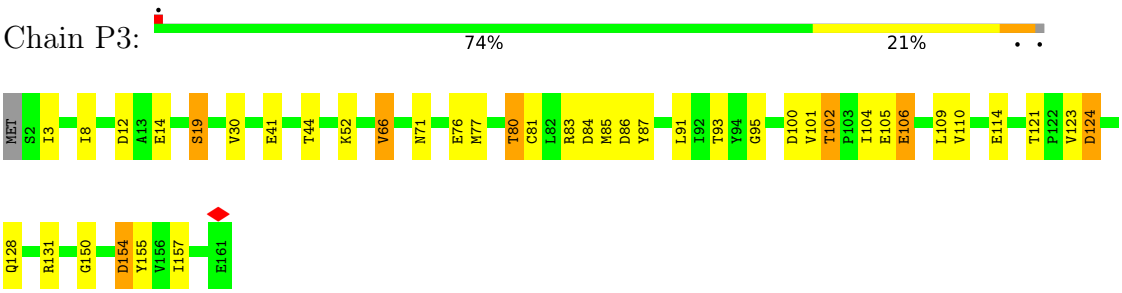
• Molecule 7: Allophycocyanin alpha subunit

Chain N3:



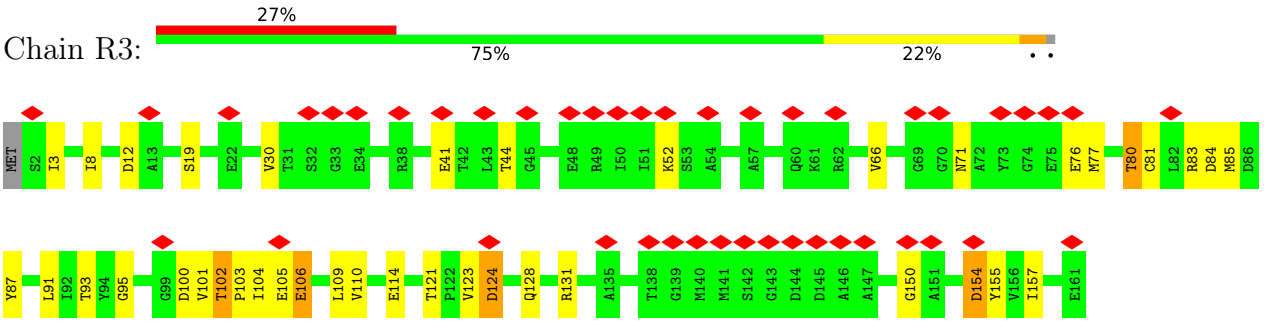
• Molecule 7: Allophycocyanin alpha subunit

Chain P3:



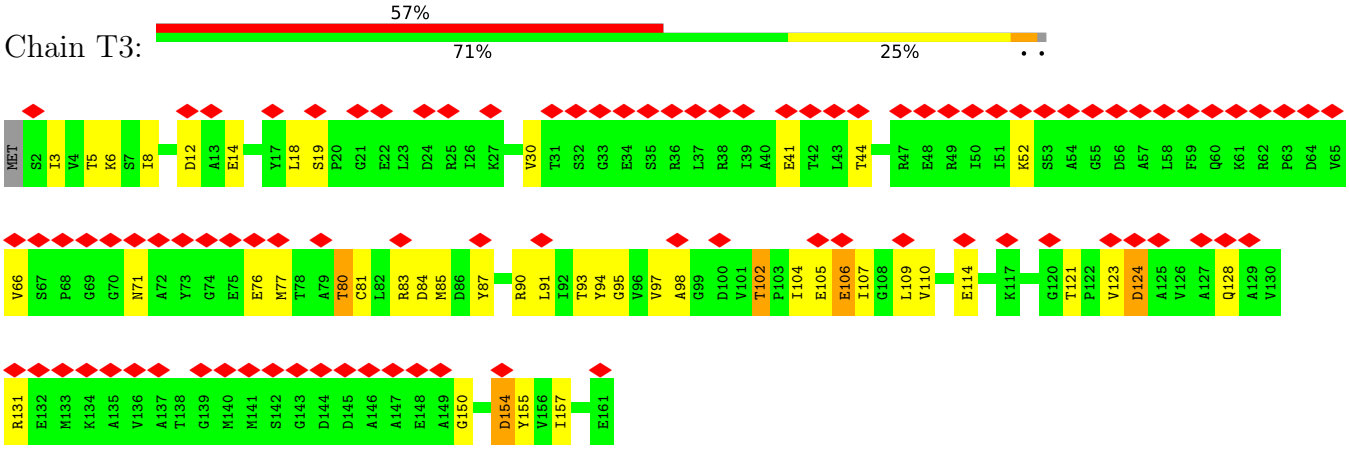
• Molecule 7: Allophycocyanin alpha subunit

Chain R3:



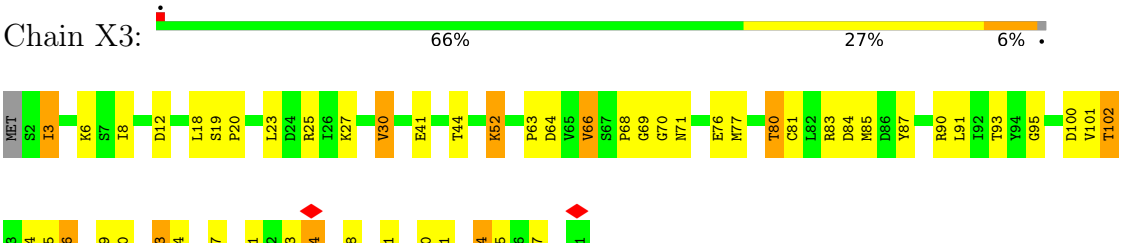
• Molecule 7: Allophycocyanin alpha subunit

Chain T3:



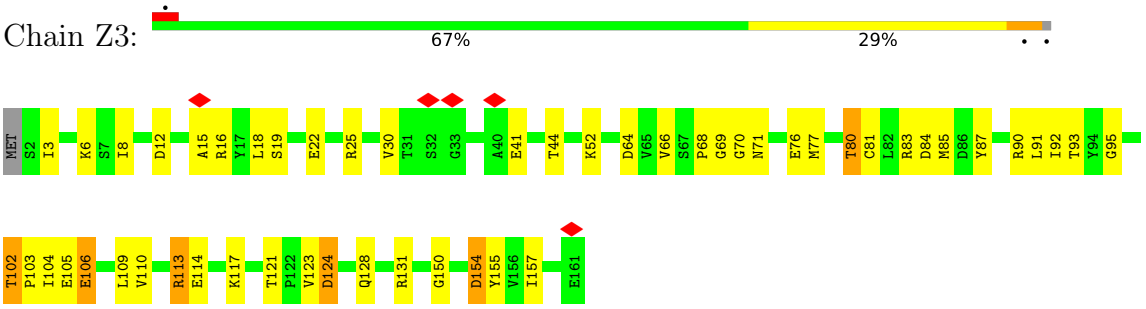
• Molecule 7: Allophycocyanin alpha subunit

Chain X3:



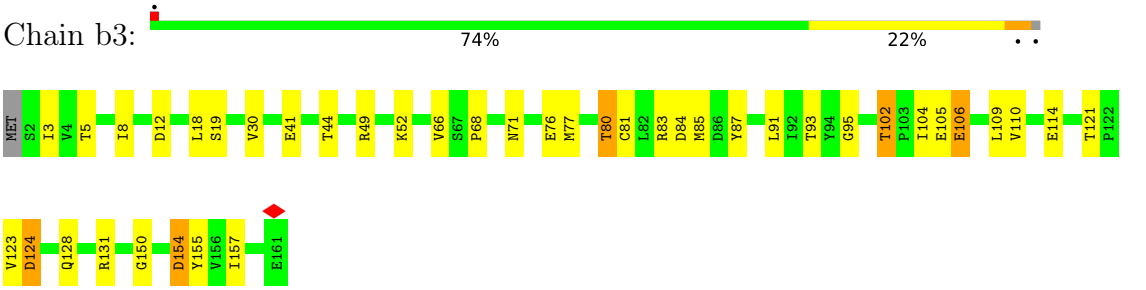
• Molecule 7: Allophycocyanin alpha subunit

Chain Z3:



• Molecule 7: Allophycocyanin alpha subunit

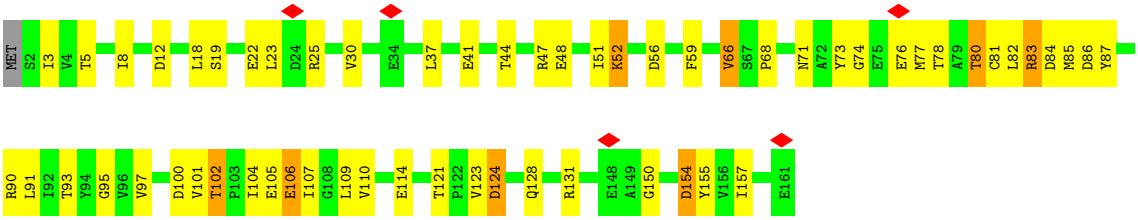
Chain b3:



• Molecule 7: Allophycocyanin alpha subunit

Chain d3:





• Molecule 7: Allophycocyanin alpha subunit

Chain f3:

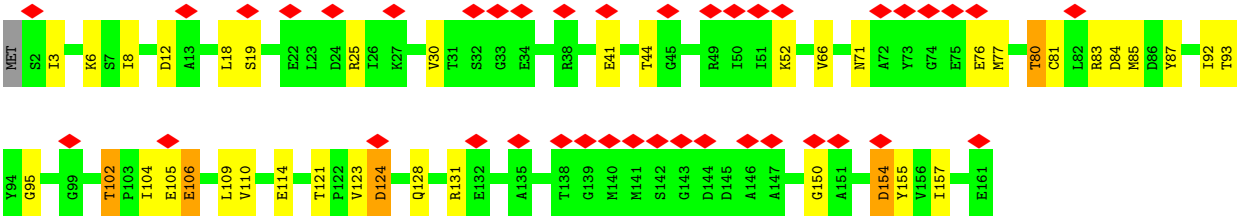




• Molecule 7: Allophycocyanin alpha subunit

Chain i3:

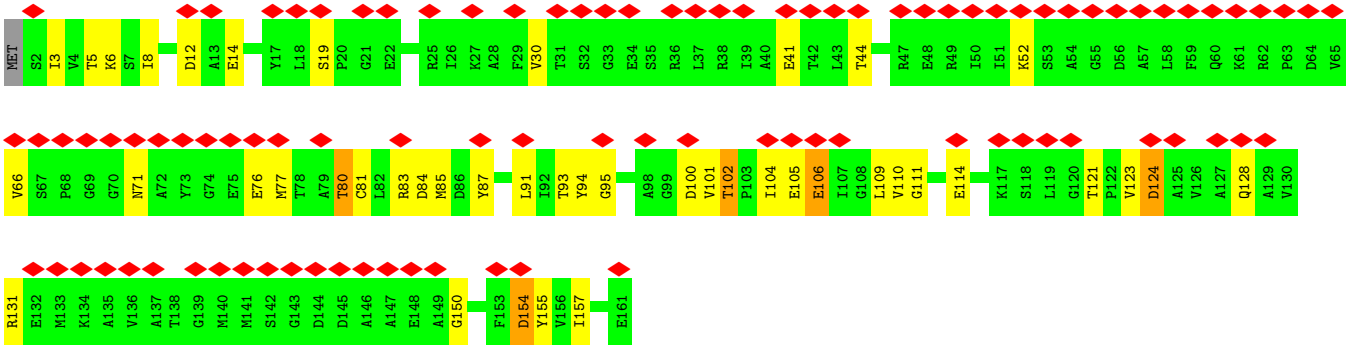




• Molecule 7: Allophycocyanin alpha subunit

Chain k3:



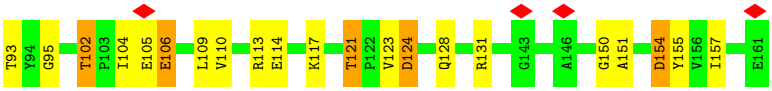


• Molecule 7: Allophycocyanin alpha subunit

Chain o3:



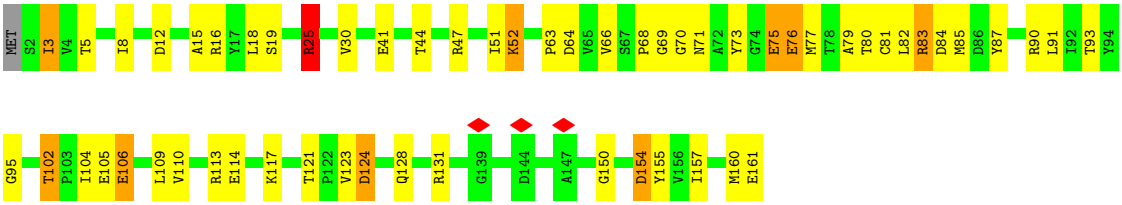




• Molecule 7: Allophycocyanin alpha subunit

Chain q3:

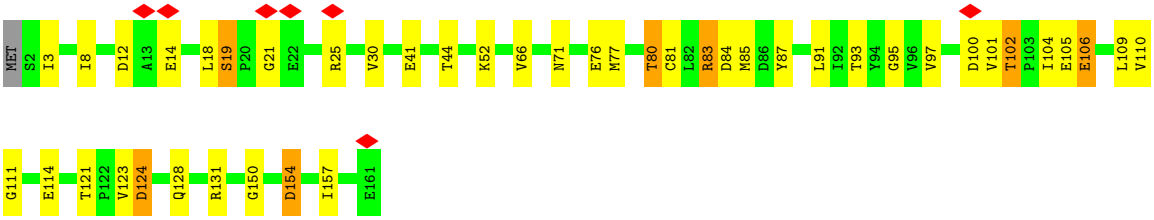




• Molecule 7: Allophycocyanin alpha subunit

Chain s3:

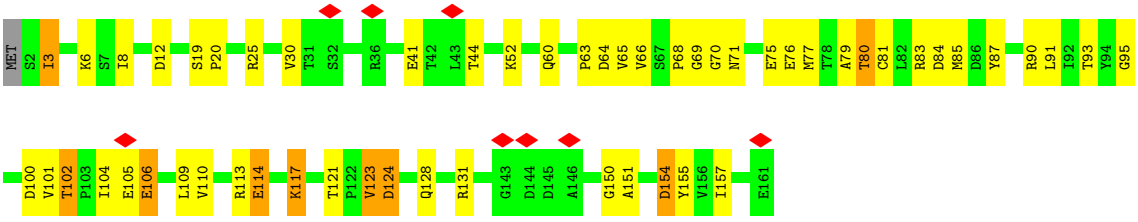




• Molecule 7: Allophycocyanin alpha subunit

Chain u3:

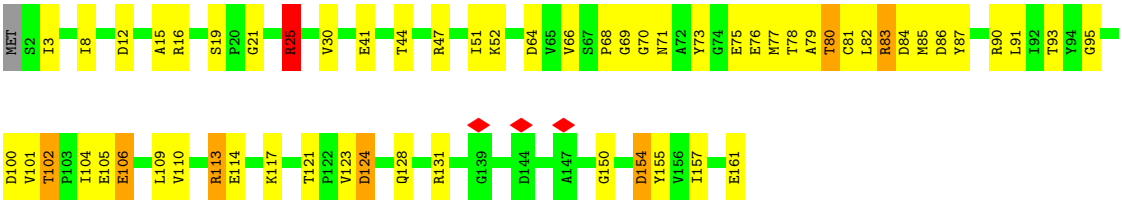




• Molecule 7: Allophycocyanin alpha subunit

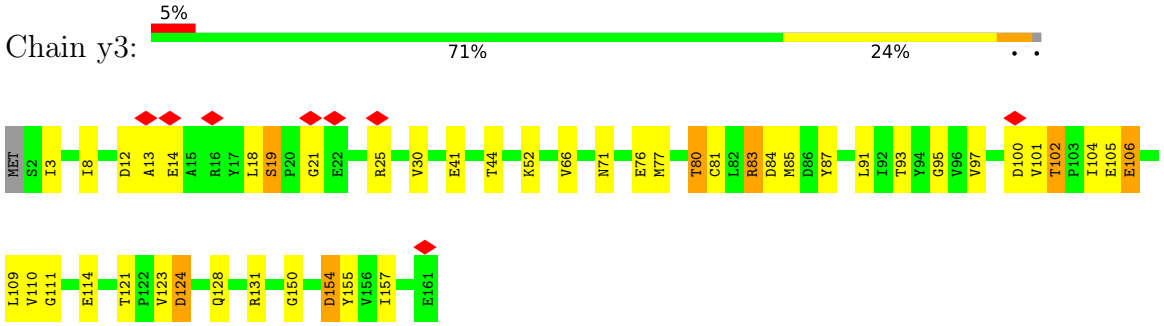
Chain w3:





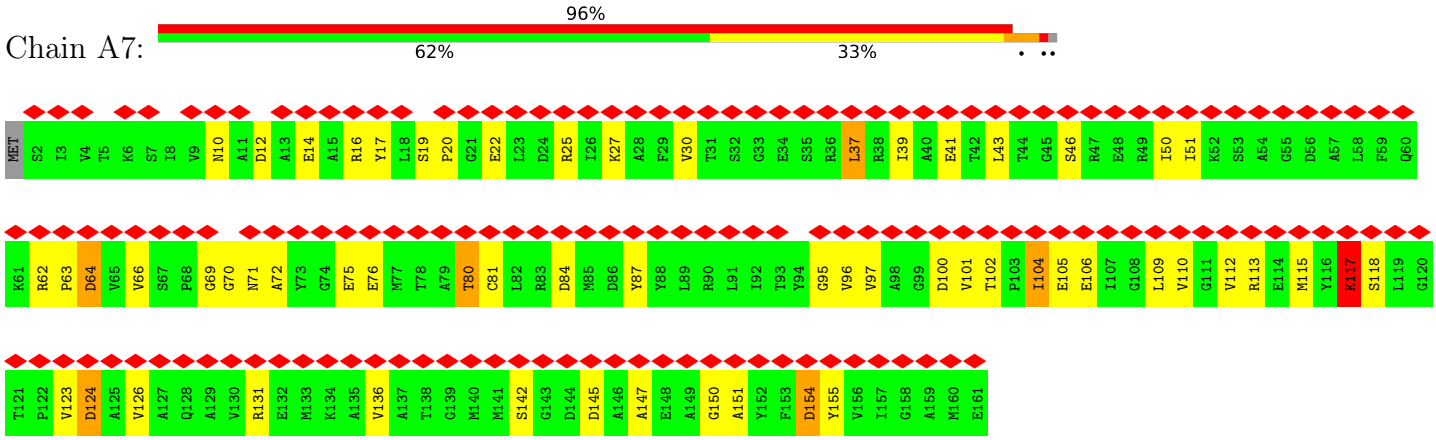
• Molecule 7: Allophycocyanin alpha subunit

Chain y3:



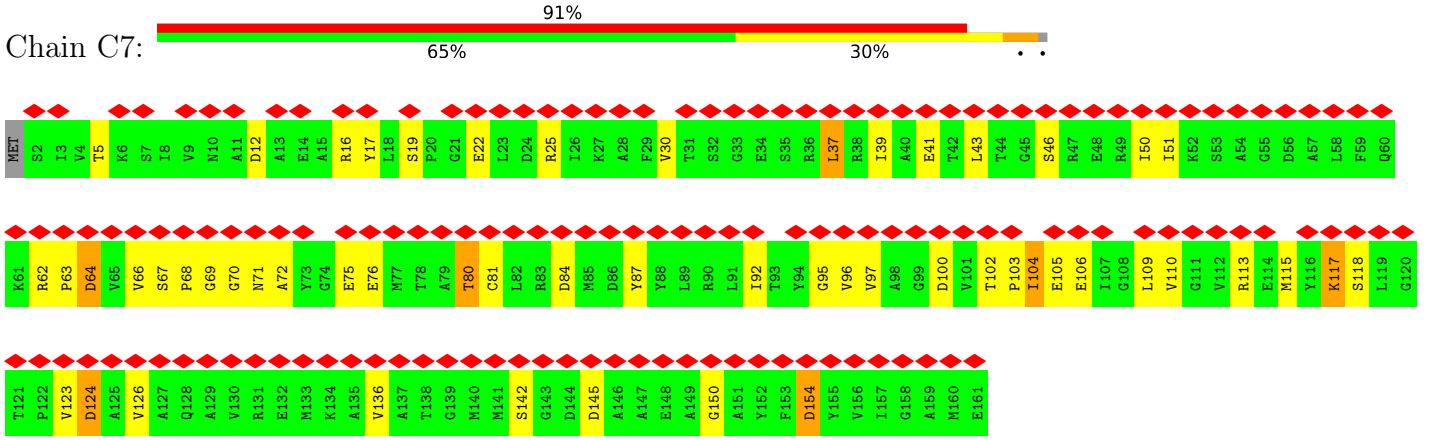
• Molecule 7: Allophycocyanin alpha subunit

Chain A7:



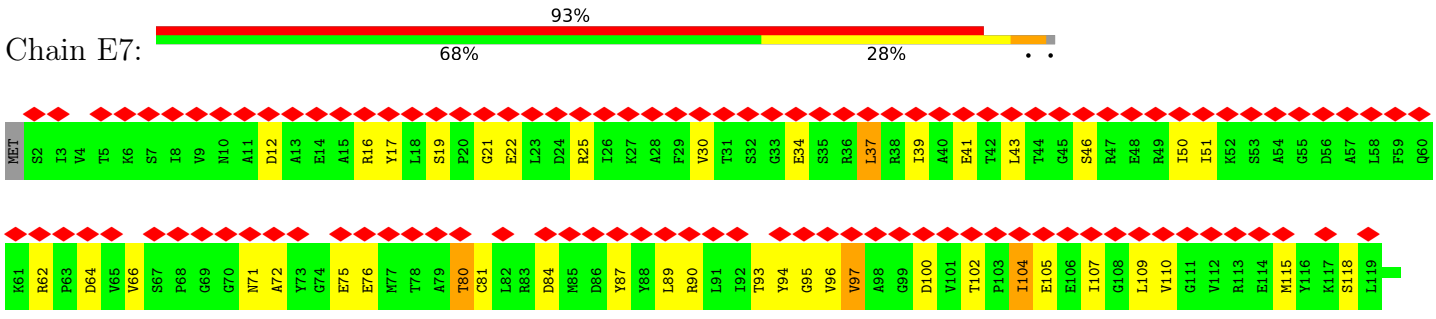
• Molecule 7: Allophycocyanin alpha subunit

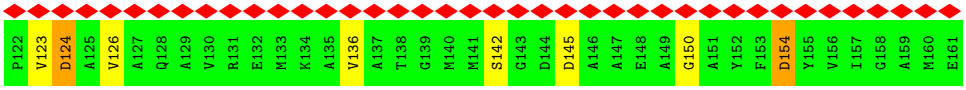
Chain C7:



• Molecule 7: Allophycocyanin alpha subunit

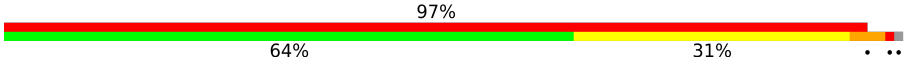
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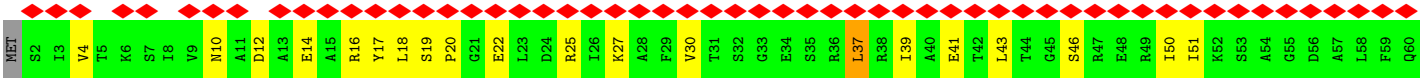


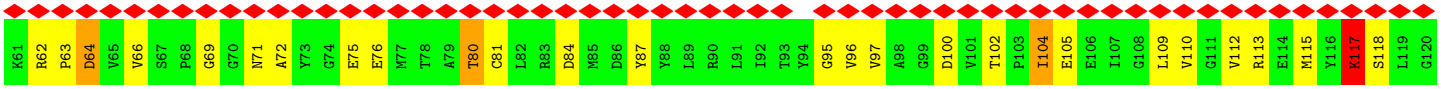


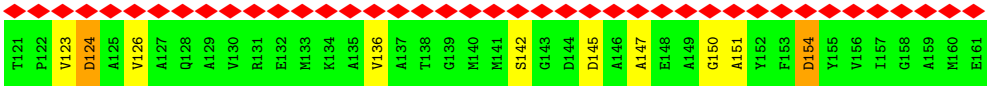
• Molecule 7: Allophycocyanin alpha subunit

Chain H7:



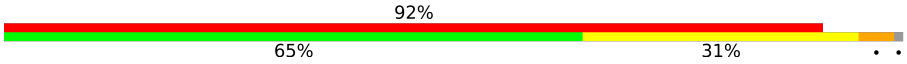


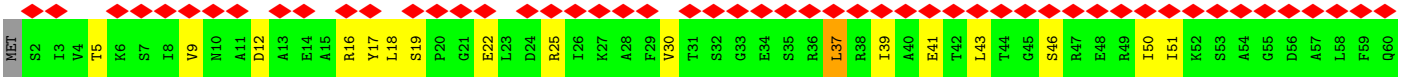


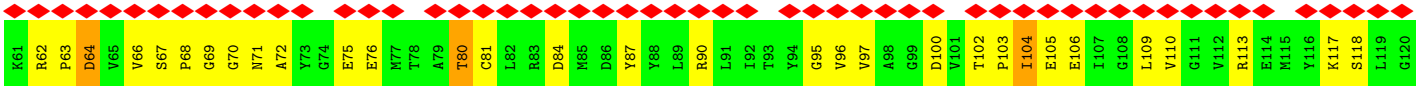


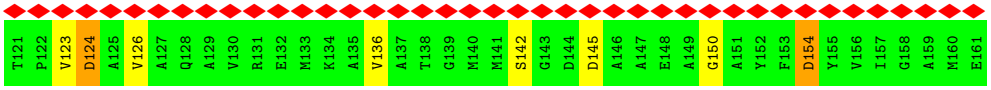
• Molecule 7: Allophycocyanin alpha subunit

Chain J7:





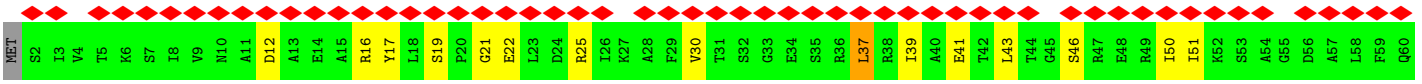


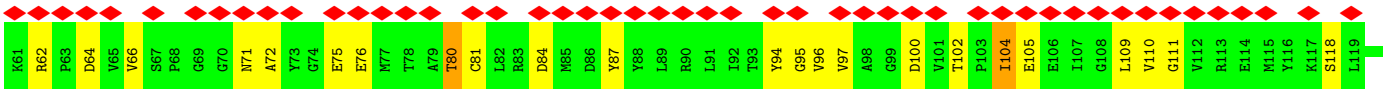


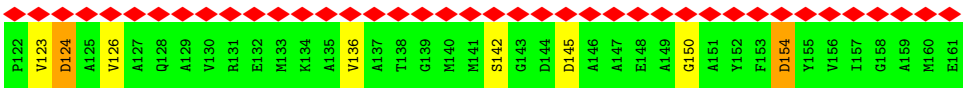
• Molecule 7: Allophycocyanin alpha subunit

Chain L7:





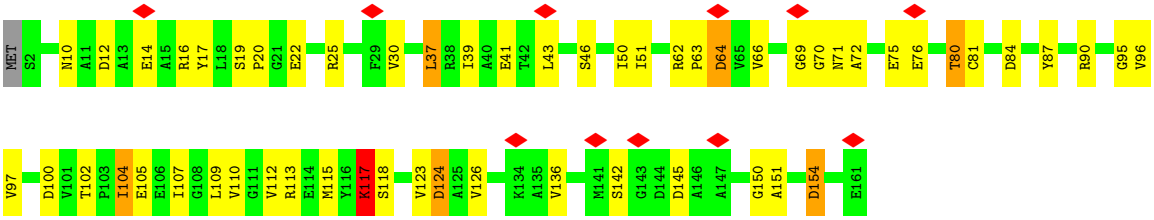




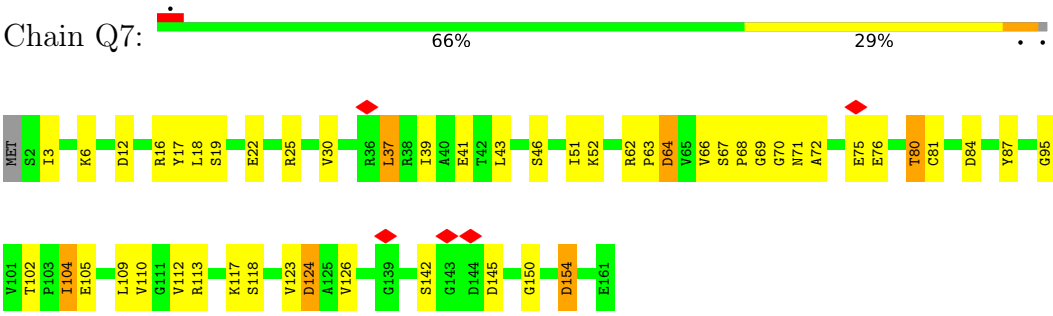
• Molecule 7: Allophycocyanin alpha subunit

Chain O7:

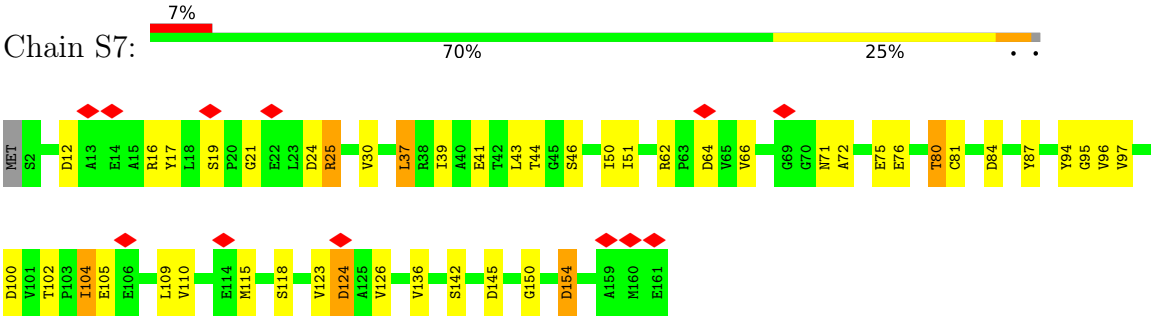




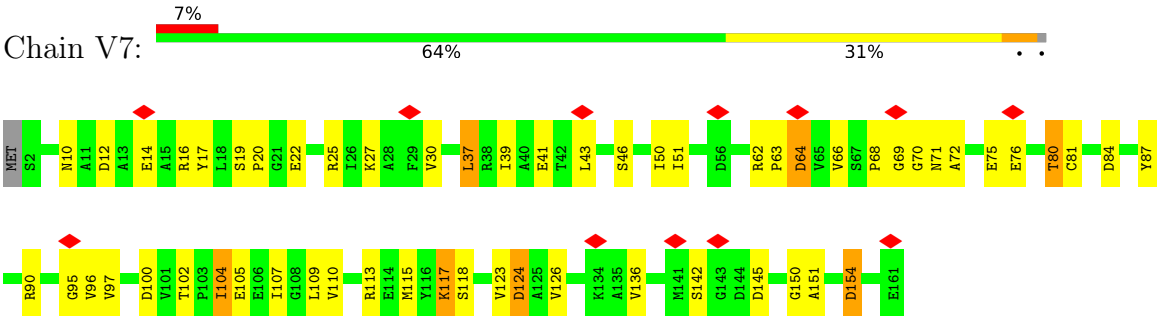
• Molecule 7: Allophycocyanin alpha subunit



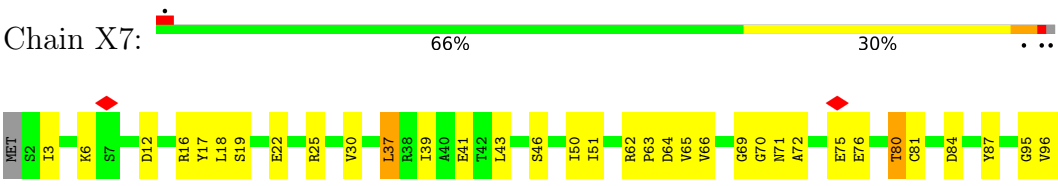
• Molecule 7: Allophycocyanin alpha subunit

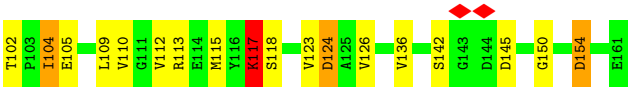


• Molecule 7: Allophycocyanin alpha subunit



• Molecule 7: Allophycocyanin alpha subunit

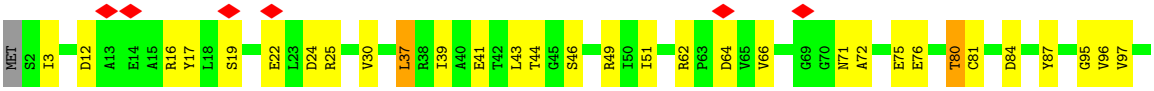




• Molecule 7: Allophycocyanin alpha subunit

Chain Z7:



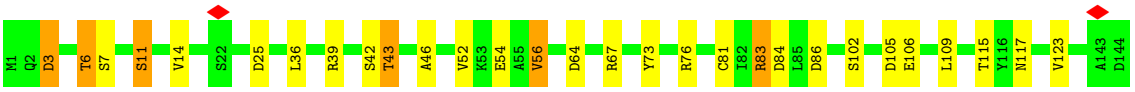


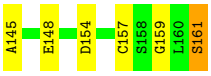


• Molecule 8: Allophycocyanin beta subunit

Chain H3:



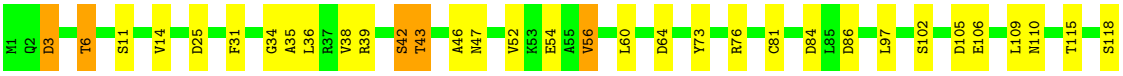


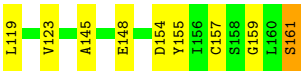


• Molecule 8: Allophycocyanin beta subunit

Chain J3:



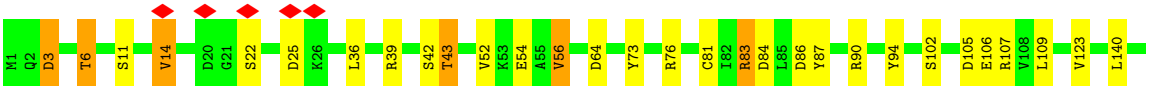


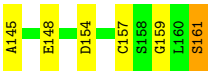


• Molecule 8: Allophycocyanin beta subunit

Chain L3:



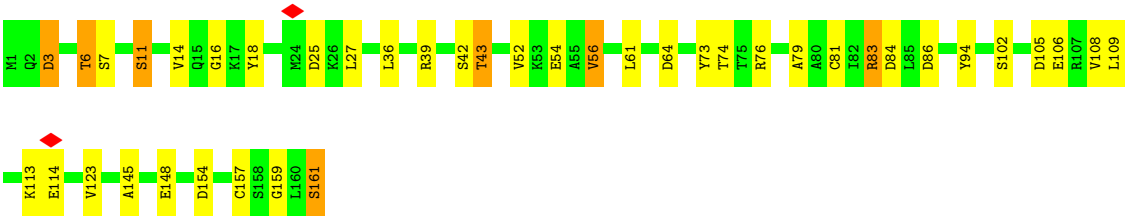




• Molecule 8: Allophycocyanin beta subunit

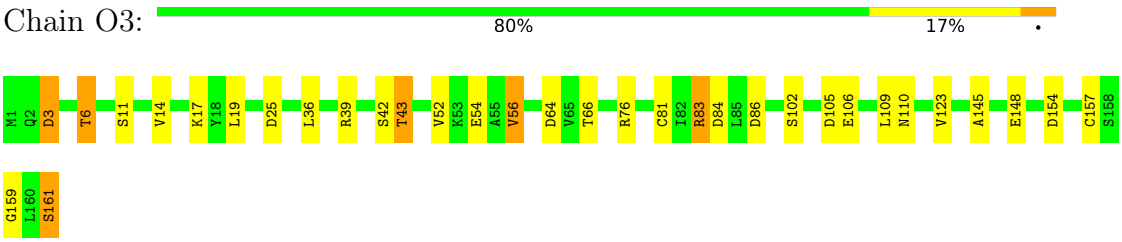
Chain M3:





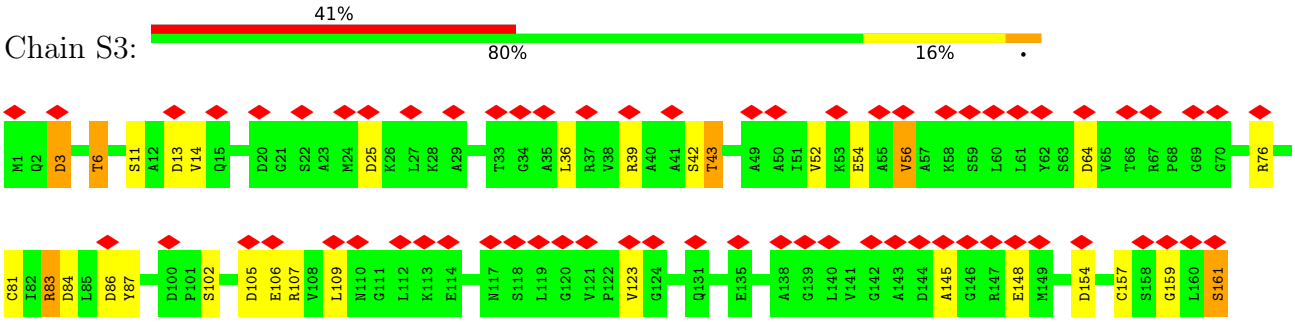
• Molecule 8: Allophycocyanin beta subunit

Chain O3:



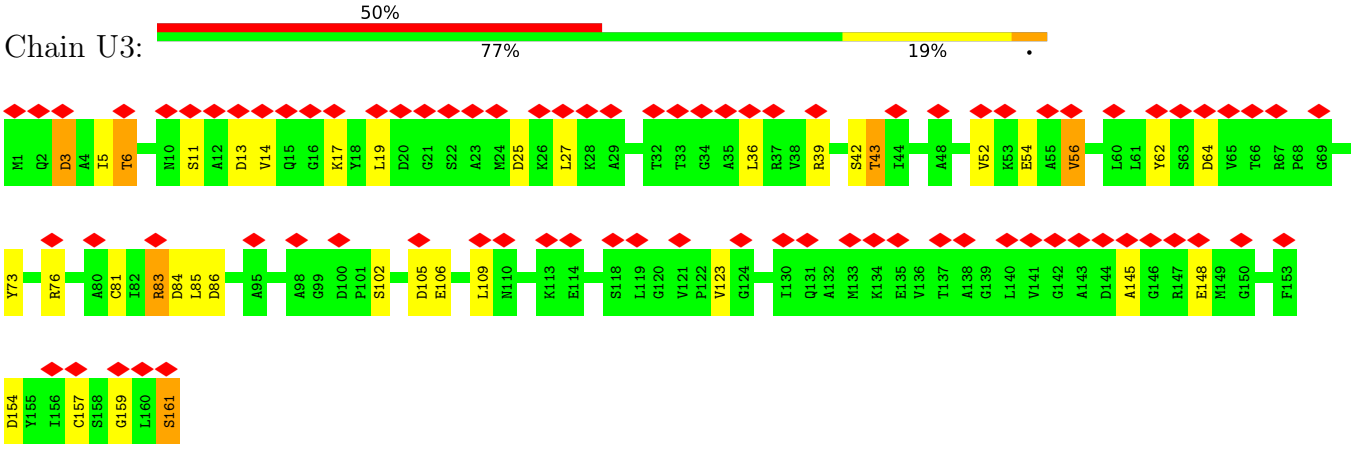
• Molecule 8: Allophycocyanin beta subunit

Chain S3:



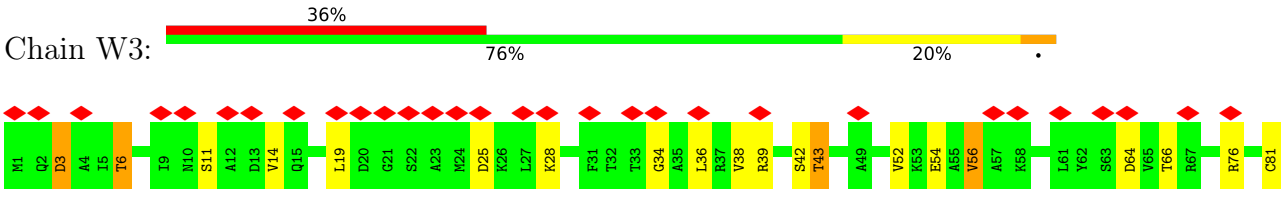
• Molecule 8: Allophycocyanin beta subunit

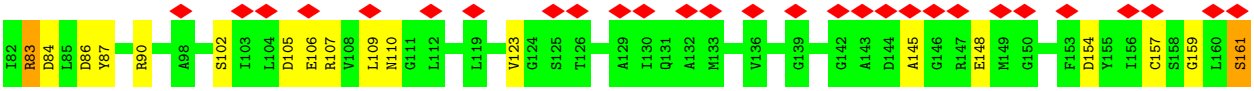
Chain U3:



• Molecule 8: Allophycocyanin beta subunit

Chain W3:

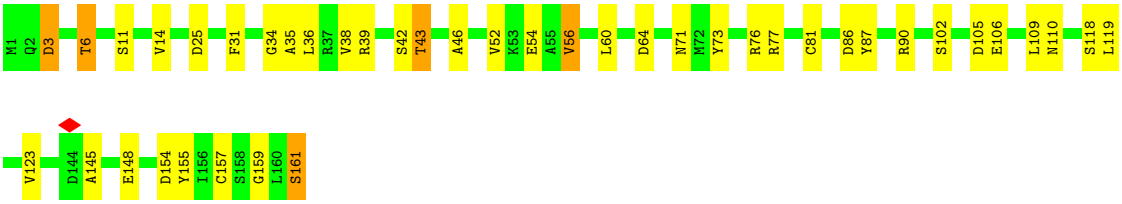




• Molecule 8: Allophycocyanin beta subunit

Chain Y3:

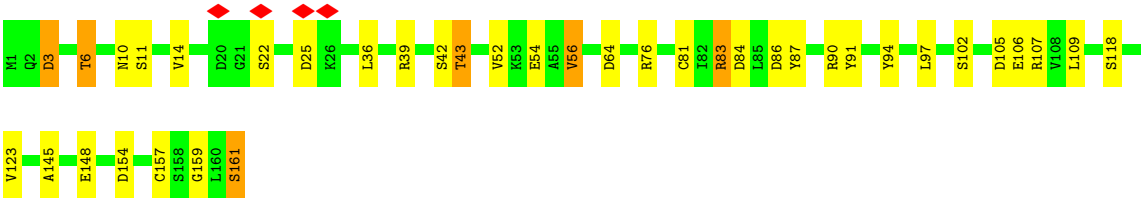




• Molecule 8: Allophycocyanin beta subunit

Chain a3:





• Molecule 8: Allophycocyanin beta subunit

Chain c3:

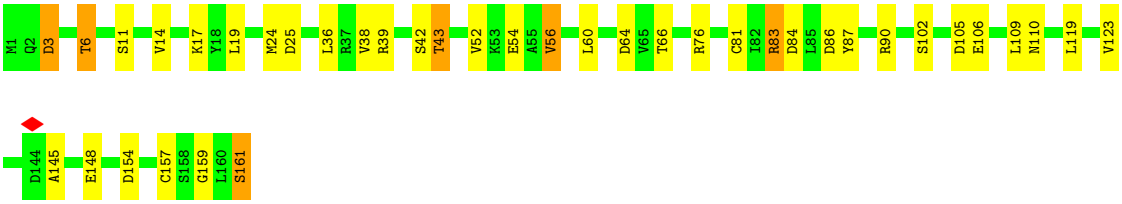




• Molecule 8: Allophycocyanin beta subunit

Chain e3:

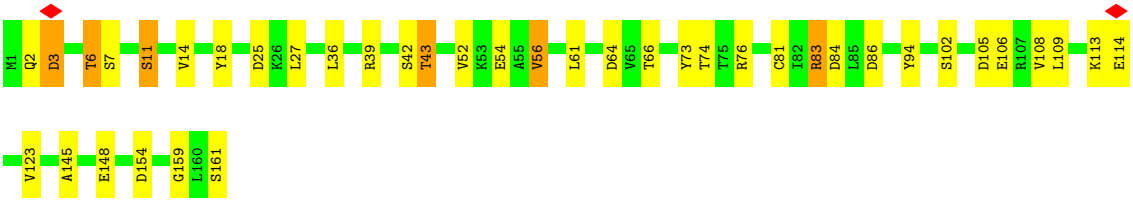




• Molecule 8: Allophycocyanin beta subunit

Chain h3:

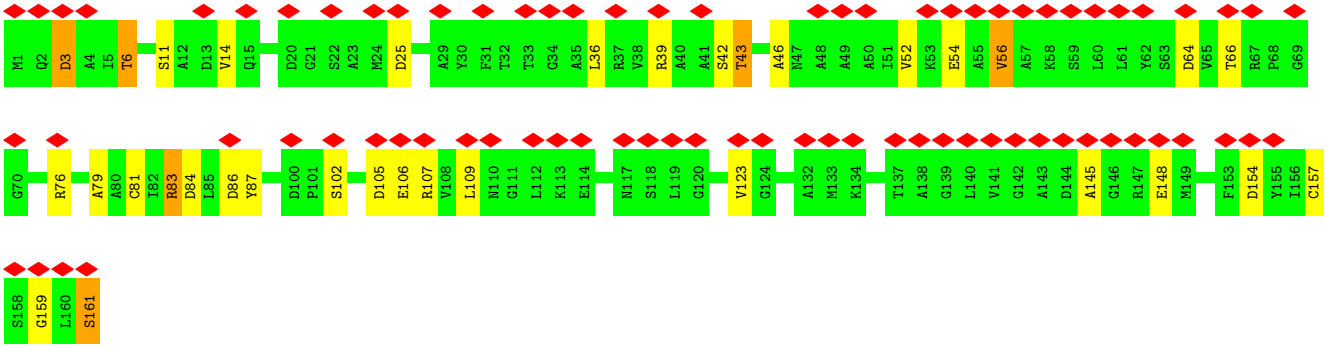




• Molecule 8: Allophycocyanin beta subunit

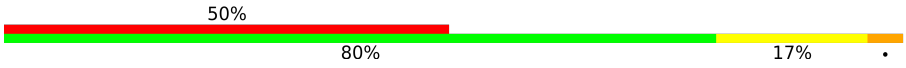
Chain j3:

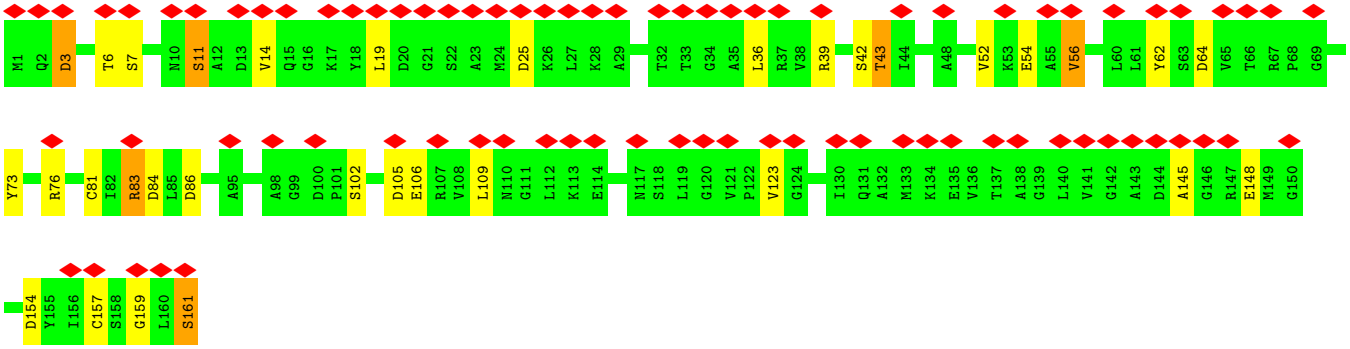




• Molecule 8: Allophycocyanin beta subunit

Chain l3:

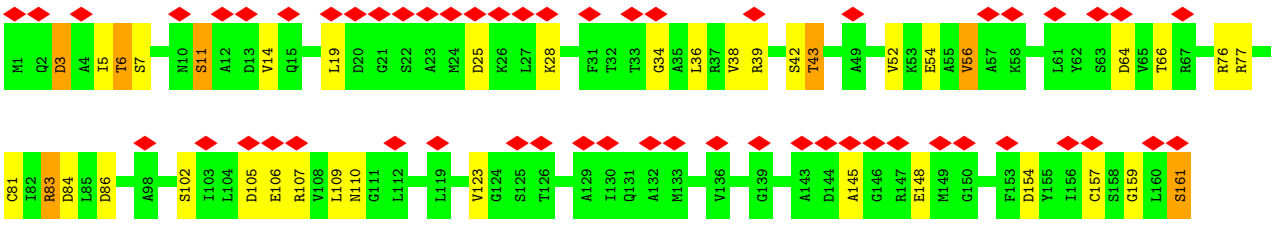




• Molecule 8: Allophycocyanin beta subunit

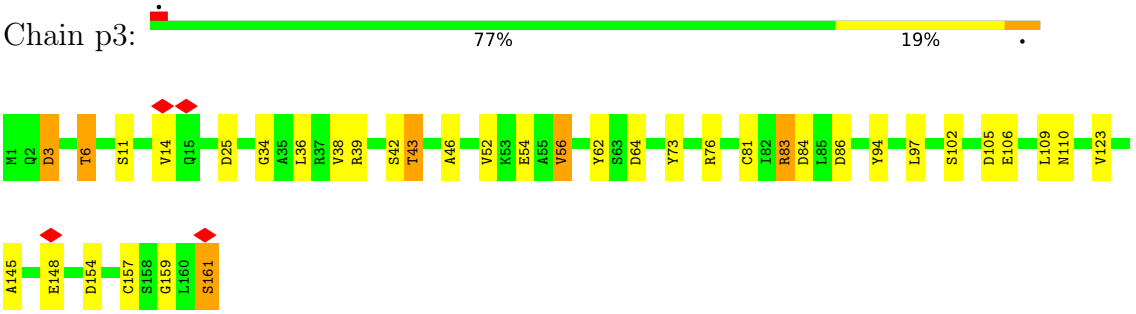
Chain n3:





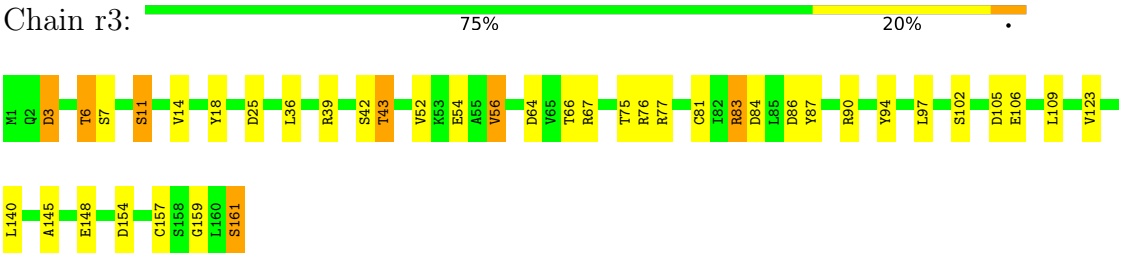
• Molecule 8: Allophycocyanin beta subunit

Chain p3:



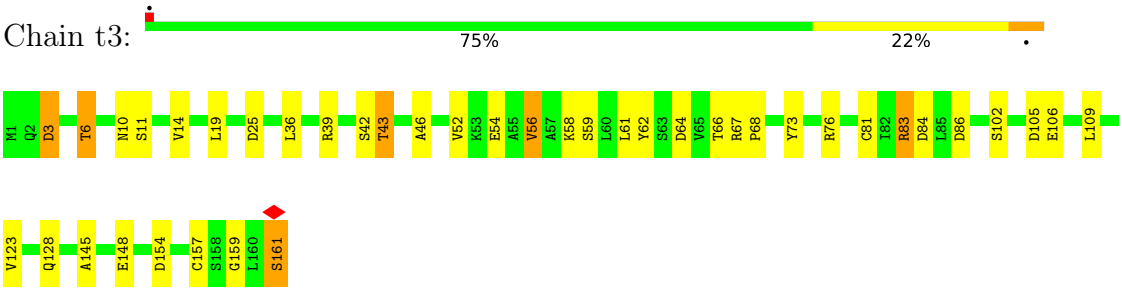
• Molecule 8: Allophycocyanin beta subunit

Chain r3:



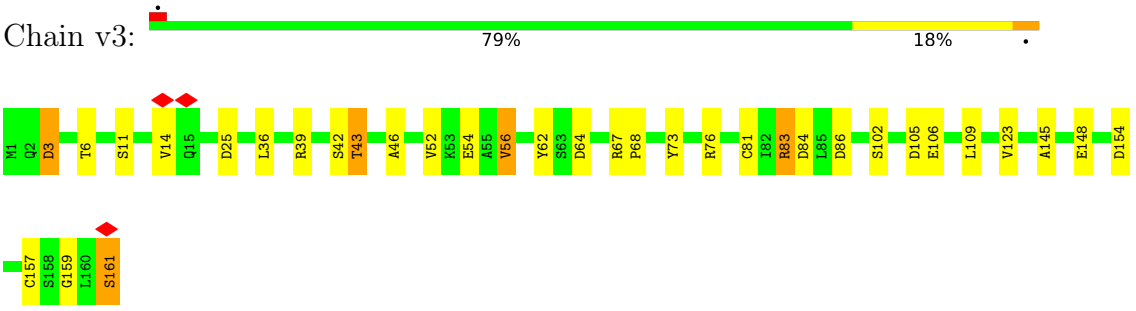
• Molecule 8: Allophycocyanin beta subunit

Chain t3:



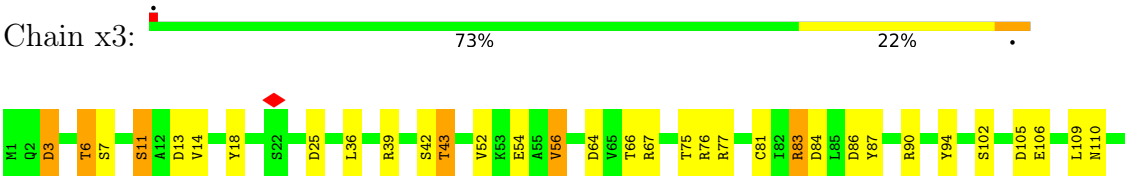
• Molecule 8: Allophycocyanin beta subunit

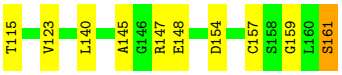
Chain v3:



• Molecule 8: Allophycocyanin beta subunit

Chain x3:

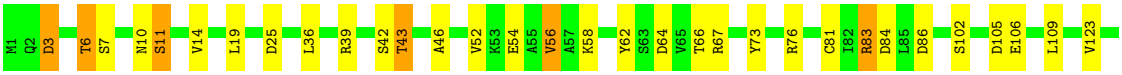




• Molecule 8: Allophycocyanin beta subunit

Chain z3:

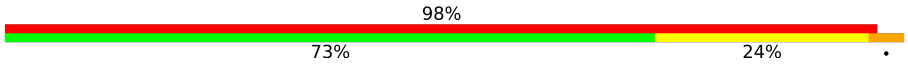


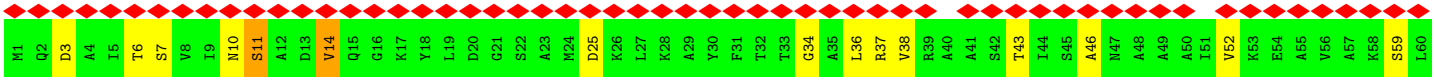


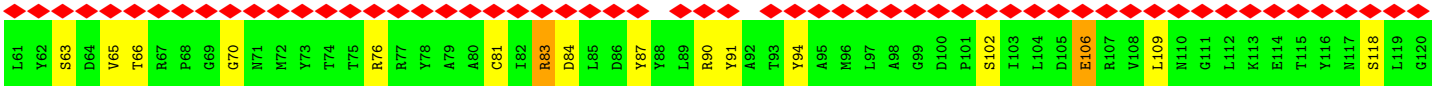


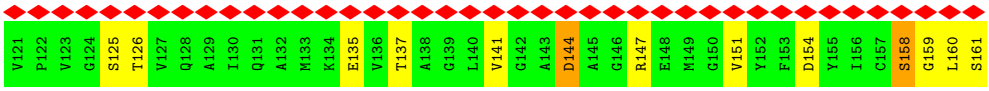
• Molecule 8: Allophycocyanin beta subunit

Chain B7:



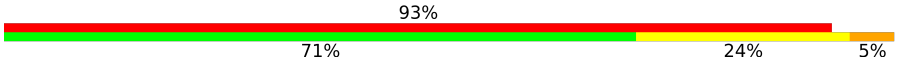


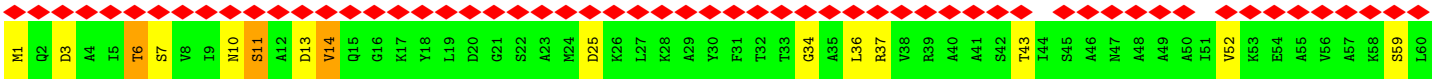


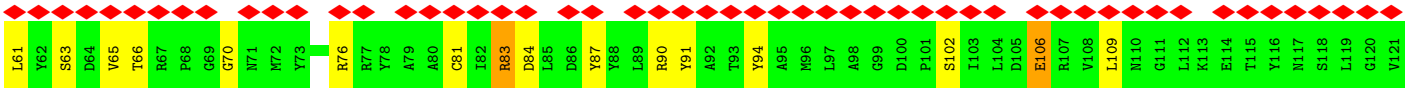


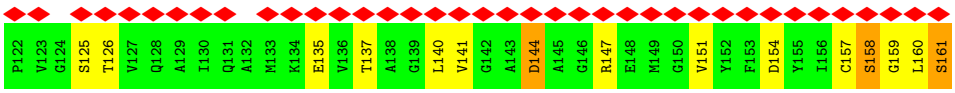
• Molecule 8: Allophycocyanin beta subunit

Chain D7:



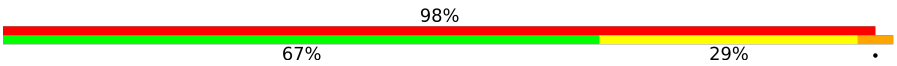


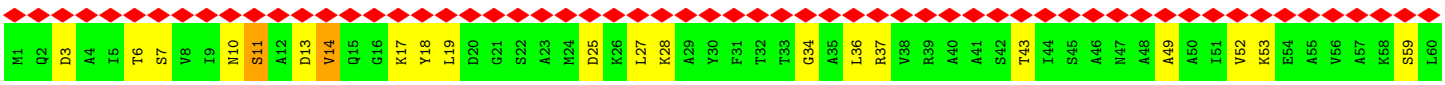


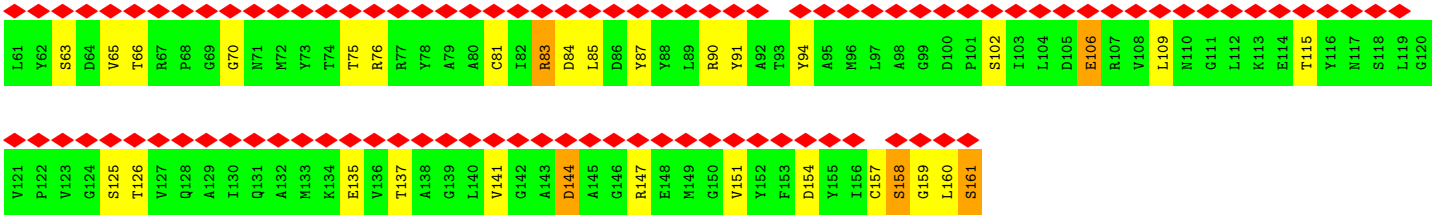


• Molecule 8: Allophycocyanin beta subunit

Chain F7:

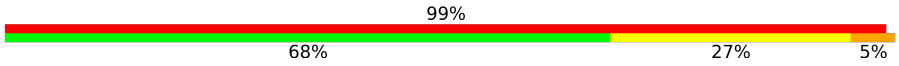


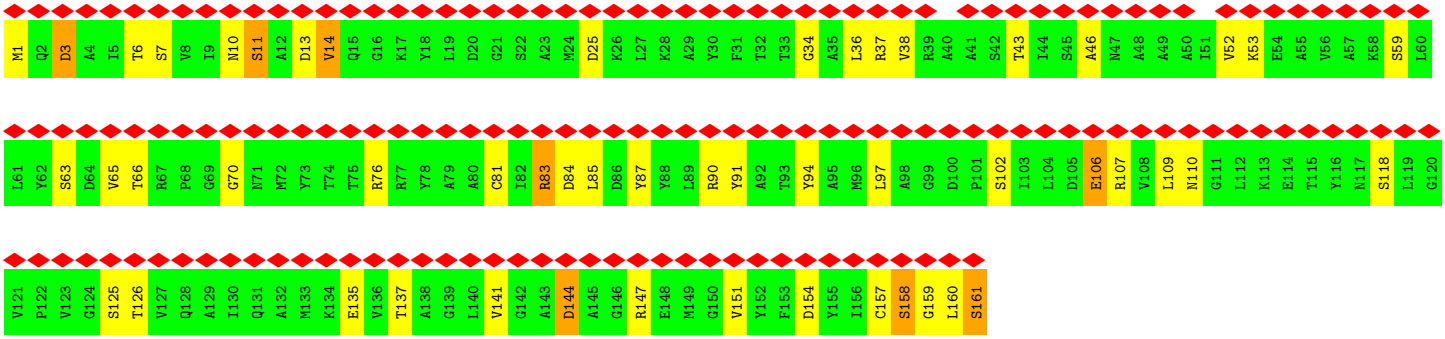




• Molecule 8: Allophycocyanin beta subunit

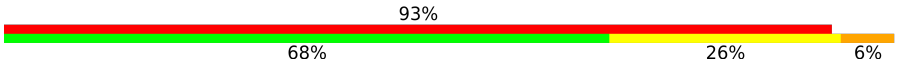
Chain I7:

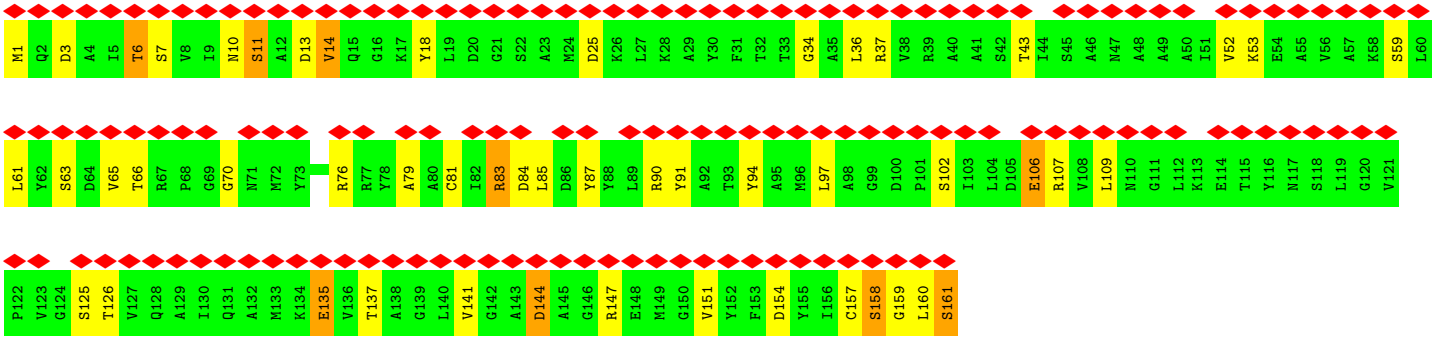




• Molecule 8: Allophycocyanin beta subunit

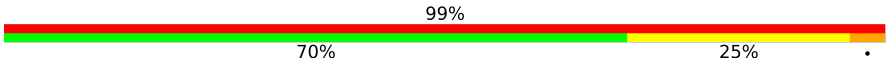
Chain K7:

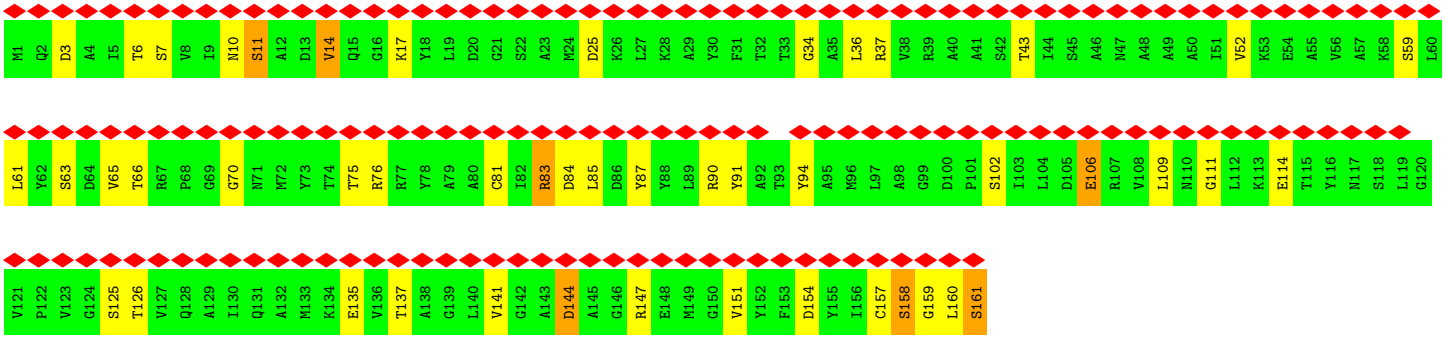




• Molecule 8: Allophycocyanin beta subunit

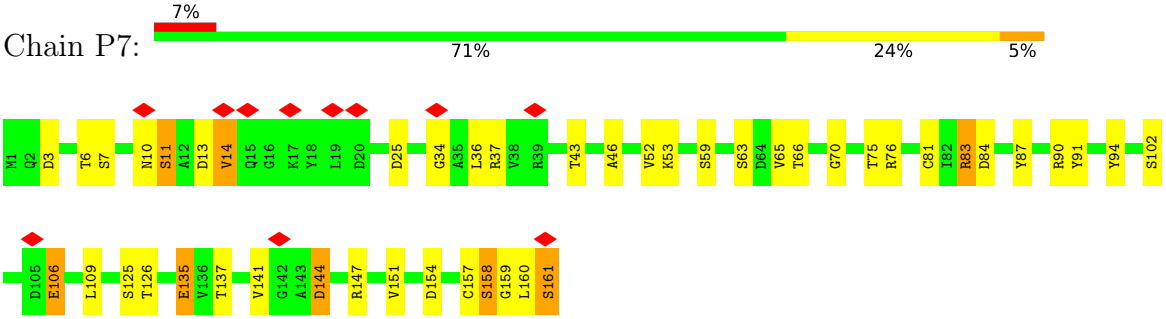
Chain M7:





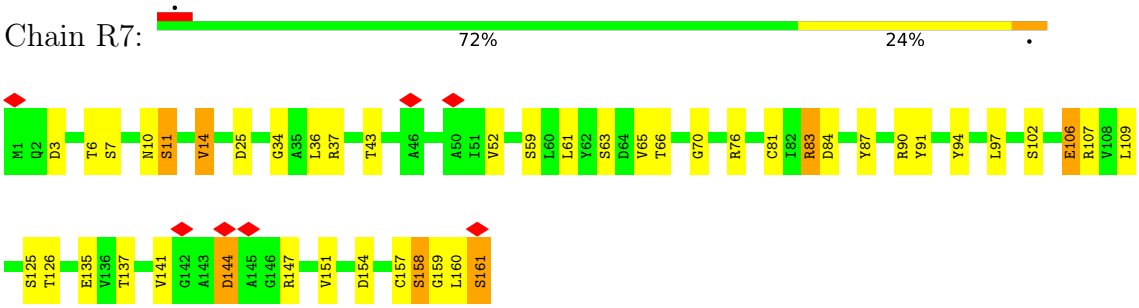
• Molecule 8: Allophycocyanin beta subunit

Chain P7:



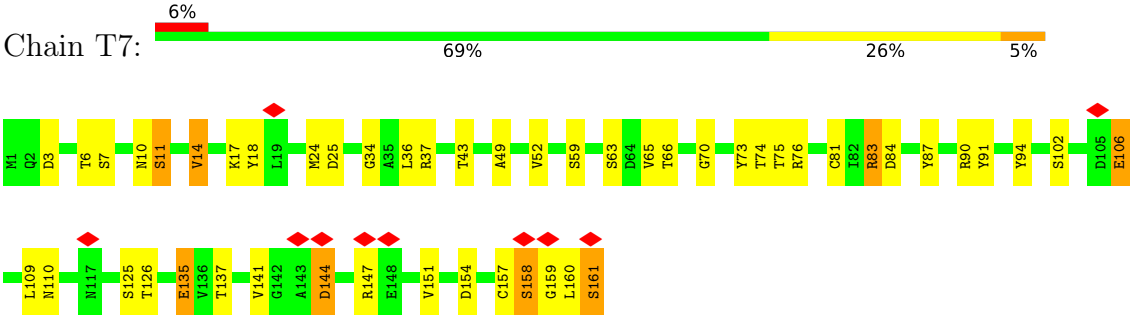
• Molecule 8: Allophycocyanin beta subunit

Chain R7:



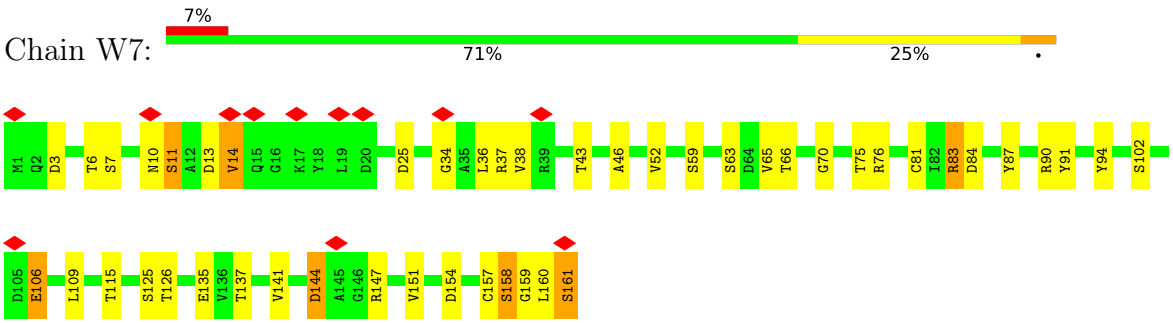
• Molecule 8: Allophycocyanin beta subunit

Chain T7:



• Molecule 8: Allophycocyanin beta subunit

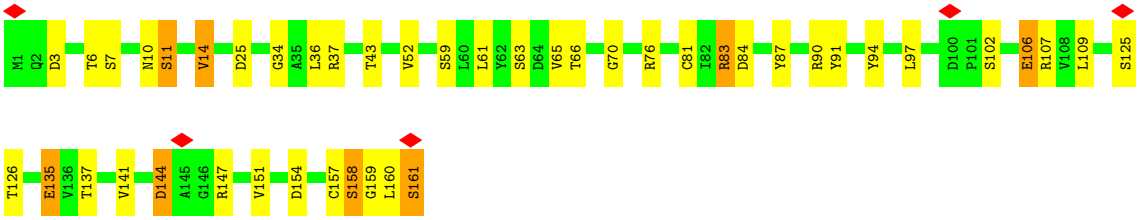
Chain W7:



• Molecule 8: Allophycocyanin beta subunit

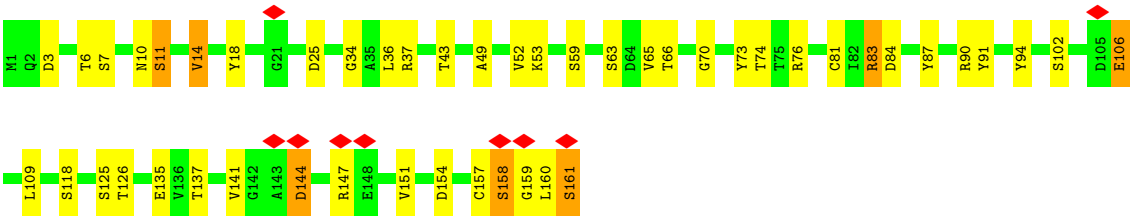
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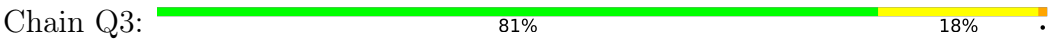


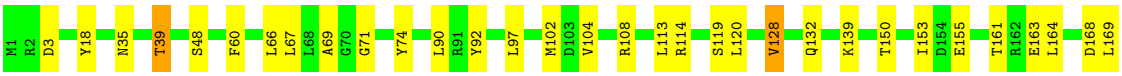
• Molecule 8: Allophycocyanin beta subunit



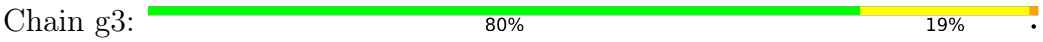


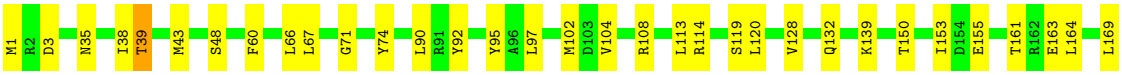
• Molecule 9: Allophycocyanin subunit beta-18



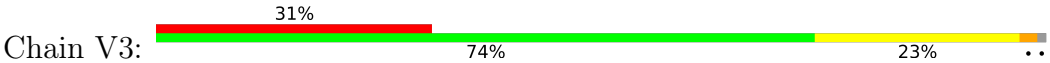


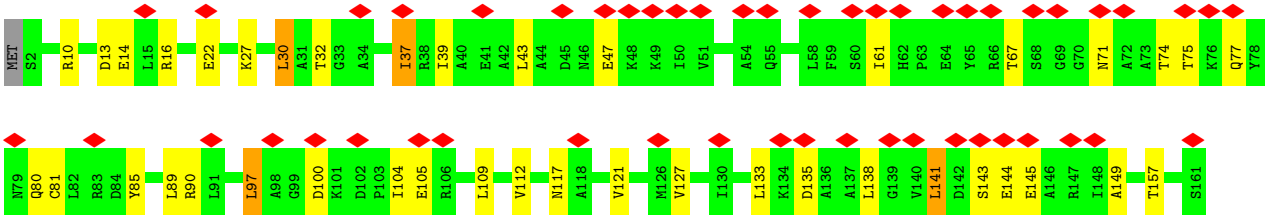
• Molecule 9: Allophycocyanin subunit beta-18



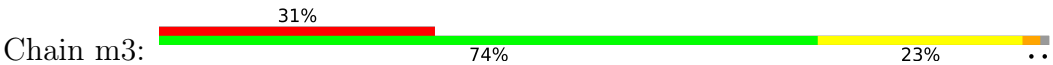


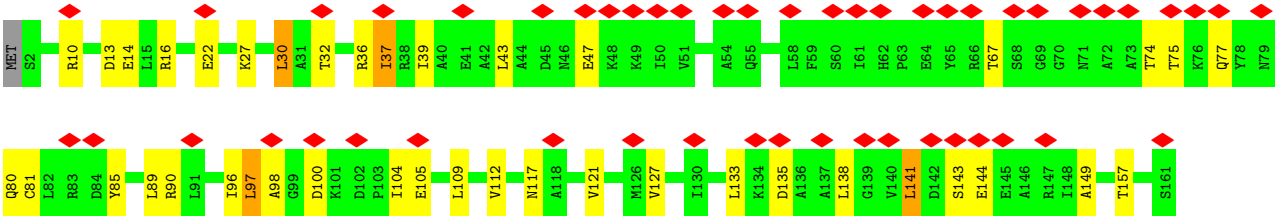
• Molecule 10: Allophycocyanin subunit alpha-B





• Molecule 10: Allophycocyanin subunit alpha-B




MET S2 R10 D13 E14 L15 R16 E22 K27 L30 A31 T32 R36 I37 R38 I39 A40 E41 A42 L43 A44 D45 N46 E47 K48 K49 I50 V51 A54 Q55 L58 F59 S60 I61 H62 P63 E64 Y65 R66 T67 S68 G69 G70 N71 A72 A73 T74 T75 K76 Q77 Y78 N79
Q80 C81 L82 R83 D84 Y85 L89 R90 L91 I96 L97 A98 G99 D100 K101 D102 P103 I104 E105 L109 V112 N117 A118 V121 M126 V127 I130 L133 K134 D135 A136 A137 L138 G139 V140 L141 D142 S143 E144 E145 A146 R147 I148 A149 T157 S161

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	64268	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	0.082	Depositor
Minimum map value	-0.028	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.005	Depositor
Recommended contour level	0.0167	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	0.63	3/1884 (0.2%)	0.93	8/2554 (0.3%)
1	A2	0.47	1/1909 (0.1%)	0.70	3/2588 (0.1%)
1	A4	0.54	0/1884	0.77	1/2554 (0.0%)
1	A5	0.63	3/1884 (0.2%)	0.90	8/2554 (0.3%)
1	A6	0.47	1/1909 (0.1%)	0.65	1/2588 (0.0%)
1	A8	0.54	0/1884	0.76	1/2554 (0.0%)
2	B1	0.33	0/1264	0.58	0/1718
2	B2	0.41	1/1264 (0.1%)	0.56	0/1718
2	B4	0.50	2/1264 (0.2%)	0.91	7/1718 (0.4%)
2	B5	0.33	0/1264	0.58	0/1718
2	B6	0.41	1/1264 (0.1%)	0.56	0/1718
2	B8	0.50	2/1264 (0.2%)	0.91	7/1718 (0.4%)
2	D1	0.33	0/1264	0.58	0/1718
2	D2	0.41	1/1264 (0.1%)	0.56	0/1718
2	D4	0.50	2/1264 (0.2%)	0.89	7/1718 (0.4%)
2	D5	0.33	0/1264	0.58	0/1718
2	D6	0.41	1/1264 (0.1%)	0.56	0/1718
2	D8	0.50	2/1264 (0.2%)	0.89	7/1718 (0.4%)
2	F1	0.34	0/1264	0.59	0/1718
2	F2	0.41	1/1264 (0.1%)	0.56	0/1718
2	F4	0.50	2/1264 (0.2%)	0.90	7/1718 (0.4%)
2	F5	0.34	0/1264	0.59	0/1718
2	F6	0.41	1/1264 (0.1%)	0.56	0/1718
2	F8	0.50	2/1264 (0.2%)	0.91	7/1718 (0.4%)
2	H1	0.33	0/1264	0.58	0/1718
2	H2	0.41	1/1264 (0.1%)	0.56	0/1718
2	H4	0.50	2/1264 (0.2%)	0.88	6/1718 (0.3%)
2	H5	0.33	0/1264	0.58	0/1718
2	H6	0.41	1/1264 (0.1%)	0.56	0/1718
2	H8	0.50	2/1264 (0.2%)	0.88	6/1718 (0.3%)
2	J1	0.33	0/1264	0.58	0/1718
2	J2	0.41	1/1264 (0.1%)	0.56	0/1718

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	J4	0.50	2/1264 (0.2%)	0.91	7/1718 (0.4%)
2	J5	0.33	0/1264	0.58	0/1718
2	J6	0.41	1/1264 (0.1%)	0.56	0/1718
2	J8	0.50	2/1264 (0.2%)	0.91	7/1718 (0.4%)
2	L1	0.33	0/1264	0.58	0/1718
2	L2	0.41	1/1264 (0.1%)	0.56	0/1718
2	L4	0.50	2/1264 (0.2%)	0.91	8/1718 (0.5%)
2	L5	0.33	0/1264	0.58	0/1718
2	L6	0.41	1/1264 (0.1%)	0.56	0/1718
2	L8	0.50	2/1264 (0.2%)	0.91	8/1718 (0.5%)
2	O1	0.33	0/1256	0.58	0/1708
2	O2	0.41	1/1264 (0.1%)	0.56	0/1718
2	O4	0.50	2/1264 (0.2%)	0.86	6/1718 (0.3%)
2	O5	0.33	0/1256	0.58	0/1708
2	O6	0.41	1/1264 (0.1%)	0.56	0/1718
2	O8	0.50	2/1264 (0.2%)	0.86	6/1718 (0.3%)
2	Q1	0.33	0/1264	0.58	0/1718
2	Q2	0.41	1/1264 (0.1%)	0.56	0/1718
2	Q4	0.50	2/1264 (0.2%)	0.87	7/1718 (0.4%)
2	Q5	0.33	0/1264	0.58	0/1718
2	Q6	0.41	1/1264 (0.1%)	0.56	0/1718
2	Q8	0.49	2/1264 (0.2%)	0.87	7/1718 (0.4%)
2	S1	0.33	0/1264	0.59	0/1718
2	S2	0.41	1/1264 (0.1%)	0.56	0/1718
2	S4	0.50	2/1264 (0.2%)	0.82	4/1718 (0.2%)
2	S5	0.33	0/1264	0.58	0/1718
2	S6	0.41	1/1264 (0.1%)	0.56	0/1718
2	S8	0.50	2/1264 (0.2%)	0.82	4/1718 (0.2%)
2	U1	0.33	0/1264	0.59	0/1718
2	U2	0.41	1/1264 (0.1%)	0.56	0/1718
2	U4	0.50	2/1264 (0.2%)	0.91	7/1718 (0.4%)
2	U5	0.33	0/1264	0.59	0/1718
2	U6	0.41	1/1264 (0.1%)	0.56	0/1718
2	U8	0.50	2/1264 (0.2%)	0.91	7/1718 (0.4%)
2	W1	0.33	0/1264	0.60	0/1718
2	W2	0.41	1/1264 (0.1%)	0.56	0/1718
2	W4	0.50	2/1264 (0.2%)	0.91	7/1718 (0.4%)
2	W5	0.34	0/1264	0.60	0/1718
2	W6	0.41	1/1264 (0.1%)	0.56	0/1718
2	W8	0.50	2/1264 (0.2%)	0.91	7/1718 (0.4%)
2	Y1	0.33	0/1264	0.58	0/1718
2	Y2	0.41	1/1264 (0.1%)	0.56	0/1718
2	Y4	0.50	2/1264 (0.2%)	0.93	8/1718 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	Y5	0.33	0/1264	0.59	0/1718
2	Y6	0.41	1/1264 (0.1%)	0.56	0/1718
2	Y8	0.50	2/1264 (0.2%)	0.92	8/1718 (0.5%)
3	C1	0.33	0/1295	0.93	6/1751 (0.3%)
3	C2	0.37	0/1295	0.99	10/1751 (0.6%)
3	C4	0.45	0/1295	1.01	7/1751 (0.4%)
3	C5	0.34	0/1295	0.93	6/1751 (0.3%)
3	C6	0.38	0/1295	1.04	11/1751 (0.6%)
3	C8	0.44	0/1295	1.02	8/1751 (0.5%)
3	E1	0.33	0/1295	0.93	6/1751 (0.3%)
3	E2	0.37	0/1295	0.93	11/1751 (0.6%)
3	E4	0.45	0/1295	0.97	7/1751 (0.4%)
3	E5	0.33	0/1295	0.93	6/1751 (0.3%)
3	E6	0.37	0/1295	0.92	11/1751 (0.6%)
3	E8	0.45	0/1295	0.97	7/1751 (0.4%)
3	G1	0.33	0/1295	0.80	4/1751 (0.2%)
3	G2	0.36	0/1295	0.88	8/1751 (0.5%)
3	G4	0.45	0/1295	0.96	6/1751 (0.3%)
3	G5	0.33	0/1295	0.81	4/1751 (0.2%)
3	G6	0.36	0/1295	0.90	9/1751 (0.5%)
3	G8	0.45	0/1295	0.96	6/1751 (0.3%)
3	I1	0.33	0/1295	0.93	6/1751 (0.3%)
3	I2	0.38	0/1295	0.97	14/1751 (0.8%)
3	I4	0.47	0/1295	1.02	9/1751 (0.5%)
3	I5	0.33	0/1295	0.93	6/1751 (0.3%)
3	I6	0.38	0/1295	0.97	14/1751 (0.8%)
3	I8	0.47	0/1295	1.02	9/1751 (0.5%)
3	K1	0.33	0/1295	0.93	6/1751 (0.3%)
3	K2	0.35	0/1295	0.85	6/1751 (0.3%)
3	K4	0.46	0/1295	1.09	11/1751 (0.6%)
3	K5	0.33	0/1295	0.93	6/1751 (0.3%)
3	K6	0.35	0/1295	0.85	6/1751 (0.3%)
3	K8	0.46	0/1295	1.09	11/1751 (0.6%)
3	M1	0.33	0/1295	0.93	6/1751 (0.3%)
3	M2	0.36	0/1295	0.93	10/1751 (0.6%)
3	M4	0.44	0/1295	0.97	7/1751 (0.4%)
3	M5	0.33	0/1295	0.93	6/1751 (0.3%)
3	M6	0.36	0/1295	0.93	10/1751 (0.6%)
3	M8	0.44	0/1295	0.97	7/1751 (0.4%)
3	P1	0.33	0/1295	0.93	6/1751 (0.3%)
3	P2	0.37	0/1295	0.97	14/1751 (0.8%)
3	P4	0.45	0/1295	0.84	4/1751 (0.2%)
3	P5	0.33	0/1295	0.93	6/1751 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	P6	0.37	0/1295	0.97	14/1751 (0.8%)
3	P8	0.45	0/1295	0.84	4/1751 (0.2%)
3	R1	0.33	0/1295	0.93	6/1751 (0.3%)
3	R2	0.37	0/1295	1.00	13/1751 (0.7%)
3	R4	0.44	0/1295	1.02	9/1751 (0.5%)
3	R5	0.33	0/1295	0.93	6/1751 (0.3%)
3	R6	0.37	0/1295	1.00	13/1751 (0.7%)
3	R8	0.44	0/1295	1.02	9/1751 (0.5%)
3	T1	0.33	0/1295	0.93	6/1751 (0.3%)
3	T2	0.36	0/1295	0.90	10/1751 (0.6%)
3	T4	0.44	0/1295	0.85	5/1751 (0.3%)
3	T5	0.33	0/1295	0.93	6/1751 (0.3%)
3	T6	0.36	0/1295	0.91	10/1751 (0.6%)
3	T8	0.44	0/1295	0.85	5/1751 (0.3%)
3	V1	0.33	0/1295	0.93	6/1751 (0.3%)
3	V2	0.41	0/1295	1.13	14/1751 (0.8%)
3	V4	0.44	0/1295	1.01	5/1751 (0.3%)
3	V5	0.33	0/1295	0.92	6/1751 (0.3%)
3	V6	0.41	0/1295	1.13	14/1751 (0.8%)
3	V8	0.44	0/1295	1.01	5/1751 (0.3%)
3	X1	0.33	0/1295	0.93	6/1751 (0.3%)
3	X2	0.37	0/1295	0.99	14/1751 (0.8%)
3	X4	0.42	0/1295	0.94	4/1751 (0.2%)
3	X5	0.33	0/1295	0.93	6/1751 (0.3%)
3	X6	0.37	0/1295	0.99	14/1751 (0.8%)
3	X8	0.42	0/1295	0.94	4/1751 (0.2%)
3	Z1	0.33	0/1295	0.93	6/1751 (0.3%)
3	Z2	0.37	0/1295	0.94	13/1751 (0.7%)
3	Z4	0.43	0/1295	0.95	5/1751 (0.3%)
3	Z5	0.33	0/1295	0.93	6/1751 (0.3%)
3	Z6	0.37	0/1295	0.94	13/1751 (0.7%)
3	Z8	0.42	0/1295	0.95	5/1751 (0.3%)
4	N1	0.49	0/2313	0.84	8/3133 (0.3%)
4	N2	0.52	1/2313 (0.0%)	0.82	6/3133 (0.2%)
4	N4	0.50	0/2313	0.80	4/3133 (0.1%)
4	N5	0.49	0/2313	0.84	8/3133 (0.3%)
4	N6	0.52	1/2313 (0.0%)	0.82	6/3133 (0.2%)
4	N8	0.50	0/2313	0.80	4/3133 (0.1%)
4	a1	0.42	0/493	0.84	0/664
4	a2	0.38	0/493	0.73	0/664
4	a4	0.40	0/475	0.85	1/640 (0.2%)
4	a5	0.42	0/493	0.84	0/664
4	a6	0.38	0/493	0.73	0/664

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	a8	0.40	0/475	0.85	1/640 (0.2%)
5	03	0.39	1/6727 (0.0%)	0.67	2/9089 (0.0%)
5	13	0.40	1/6727 (0.0%)	0.67	1/9089 (0.0%)
6	23	0.45	0/538	0.70	0/721
6	33	0.45	0/538	0.70	0/721
6	G7	0.32	0/538	0.68	0/721
6	N7	0.32	0/546	0.64	0/731
6	U7	0.34	0/538	0.62	0/721
6	b7	0.34	0/538	0.66	1/721 (0.1%)
7	A7	0.30	0/1214	0.58	1/1640 (0.1%)
7	C7	0.30	0/1214	0.58	1/1640 (0.1%)
7	E7	0.30	0/1214	0.56	0/1640
7	G3	0.26	0/1214	0.76	3/1640 (0.2%)
7	H7	0.29	0/1214	0.58	1/1640 (0.1%)
7	I3	0.26	0/1214	0.76	3/1640 (0.2%)
7	J7	0.29	0/1214	0.56	0/1640
7	K3	0.26	0/1214	0.76	3/1640 (0.2%)
7	L7	0.30	0/1214	0.56	0/1640
7	N3	0.26	0/1214	0.76	3/1640 (0.2%)
7	O7	0.30	0/1214	0.58	1/1640 (0.1%)
7	P3	0.26	0/1214	0.76	3/1640 (0.2%)
7	Q7	0.29	0/1214	0.56	0/1640
7	R3	0.26	0/1214	0.76	3/1640 (0.2%)
7	S7	0.30	0/1214	0.57	0/1640
7	T3	0.26	0/1214	0.76	3/1640 (0.2%)
7	V7	0.30	0/1214	0.58	1/1640 (0.1%)
7	X3	0.26	0/1214	0.76	3/1640 (0.2%)
7	X7	0.30	0/1214	0.58	1/1640 (0.1%)
7	Z3	0.26	0/1214	0.76	3/1640 (0.2%)
7	Z7	0.29	0/1214	0.56	0/1640
7	b3	0.26	0/1214	0.76	3/1640 (0.2%)
7	d3	0.26	0/1214	0.76	3/1640 (0.2%)
7	f3	0.26	0/1214	0.76	3/1640 (0.2%)
7	i3	0.26	0/1214	0.76	3/1640 (0.2%)
7	k3	0.26	0/1214	0.76	3/1640 (0.2%)
7	o3	0.28	0/1214	0.82	3/1640 (0.2%)
7	q3	0.27	0/1214	0.78	4/1640 (0.2%)
7	s3	0.26	0/1214	0.76	3/1640 (0.2%)
7	u3	0.26	0/1214	0.77	3/1640 (0.2%)
7	w3	0.27	0/1214	0.78	4/1640 (0.2%)
7	y3	0.26	0/1214	0.76	3/1640 (0.2%)
8	B7	0.32	0/1221	0.77	3/1653 (0.2%)
8	D7	0.32	0/1221	0.77	3/1653 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	F7	0.32	0/1221	0.77	3/1653 (0.2%)
8	H3	0.30	0/1221	0.66	2/1653 (0.1%)
8	I7	0.32	0/1221	0.77	3/1653 (0.2%)
8	J3	0.30	0/1221	0.48	0/1653
8	K7	0.32	0/1221	0.77	3/1653 (0.2%)
8	L3	0.30	0/1221	0.66	2/1653 (0.1%)
8	M3	0.30	0/1221	0.66	2/1653 (0.1%)
8	M7	0.32	0/1221	0.77	3/1653 (0.2%)
8	O3	0.30	0/1221	0.66	2/1653 (0.1%)
8	P7	0.32	0/1221	0.77	3/1653 (0.2%)
8	R7	0.32	0/1221	0.77	3/1653 (0.2%)
8	S3	0.30	0/1221	0.66	2/1653 (0.1%)
8	T7	0.32	0/1221	0.77	3/1653 (0.2%)
8	U3	0.30	0/1221	0.66	2/1653 (0.1%)
8	W3	0.30	0/1221	0.66	2/1653 (0.1%)
8	W7	0.32	0/1221	0.77	3/1653 (0.2%)
8	Y3	0.30	0/1221	0.49	0/1653
8	Y7	0.32	0/1221	0.77	3/1653 (0.2%)
8	a3	0.30	0/1221	0.66	2/1653 (0.1%)
8	a7	0.32	0/1221	0.77	3/1653 (0.2%)
8	c3	0.30	0/1221	0.66	2/1653 (0.1%)
8	e3	0.30	0/1221	0.66	2/1653 (0.1%)
8	h3	0.30	0/1221	0.66	2/1653 (0.1%)
8	j3	0.30	0/1221	0.66	2/1653 (0.1%)
8	l3	0.30	0/1221	0.66	2/1653 (0.1%)
8	n3	0.30	0/1221	0.66	2/1653 (0.1%)
8	p3	0.30	0/1221	0.66	2/1653 (0.1%)
8	r3	0.30	0/1221	0.66	2/1653 (0.1%)
8	t3	0.30	0/1221	0.66	2/1653 (0.1%)
8	v3	0.30	0/1221	0.66	2/1653 (0.1%)
8	x3	0.30	0/1221	0.66	2/1653 (0.1%)
8	z3	0.30	0/1221	0.66	2/1653 (0.1%)
9	Q3	0.34	0/1334	0.63	0/1806
9	g3	0.34	0/1334	0.63	0/1806
10	V3	0.33	0/1255	0.64	1/1698 (0.1%)
10	m3	0.33	0/1255	0.64	1/1698 (0.1%)
All	All	0.39	84/314616 (0.0%)	0.79	947/426078 (0.2%)

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	1
1	A2	0	1
1	A4	0	1
1	A5	0	1
1	A6	0	1
1	A8	0	1
2	W1	0	1
2	W5	0	1
3	C2	0	1
3	C6	0	1
3	E2	0	1
3	E6	0	1
3	G2	0	1
3	G6	0	1
3	K2	0	1
3	K6	0	1
3	R2	0	1
3	R6	0	1
3	T2	0	1
3	T6	0	1
3	V2	0	1
3	V6	0	1
3	Z2	0	1
3	Z6	0	1
4	N1	0	1
4	N5	0	1
4	a4	0	1
4	a8	0	1
5	03	0	1
5	13	0	2
6	N7	0	1
All	All	0	32

All (84) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A5	127	ILE	CG1-CD1	10.84	1.94	1.51
1	A1	127	ILE	CG1-CD1	10.83	1.94	1.51
1	A2	21	THR	C-N	-9.38	1.20	1.33
1	A6	21	THR	C-N	-9.38	1.20	1.33
1	A5	20	TYR	CA-CB	-9.30	1.39	1.52
1	A1	20	TYR	CA-CB	-9.27	1.39	1.52
2	B4	28	TYR	CZ-OH	8.17	1.55	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H4	28	TYR	CZ-OH	8.16	1.55	1.38
2	L4	28	TYR	CZ-OH	8.15	1.55	1.38
2	W8	28	TYR	CZ-OH	8.15	1.55	1.38
2	H8	28	TYR	CZ-OH	8.15	1.55	1.38
2	U4	28	TYR	CZ-OH	8.14	1.55	1.38
2	S4	28	TYR	CZ-OH	8.14	1.55	1.38
2	B8	28	TYR	CZ-OH	8.14	1.55	1.38
2	F8	28	TYR	CZ-OH	8.14	1.55	1.38
2	F4	28	TYR	CZ-OH	8.14	1.55	1.38
2	Y4	28	TYR	CZ-OH	8.13	1.55	1.38
2	J8	28	TYR	CZ-OH	8.13	1.55	1.38
2	D4	28	TYR	CZ-OH	8.12	1.55	1.38
2	L8	28	TYR	CZ-OH	8.12	1.55	1.38
2	J4	28	TYR	CZ-OH	8.12	1.55	1.38
2	Y8	28	TYR	CZ-OH	8.12	1.55	1.38
2	W4	28	TYR	CZ-OH	8.12	1.55	1.38
2	D8	28	TYR	CZ-OH	8.12	1.55	1.38
2	O8	28	TYR	CZ-OH	8.12	1.55	1.38
2	S8	28	TYR	CZ-OH	8.12	1.55	1.38
2	U8	28	TYR	CZ-OH	8.11	1.55	1.38
2	O4	28	TYR	CZ-OH	8.10	1.55	1.38
2	Q8	28	TYR	CZ-OH	8.10	1.55	1.38
2	Q4	28	TYR	CZ-OH	8.08	1.55	1.38
5	03	489	ASN	CG-ND2	7.64	1.49	1.33
5	13	489	ASN	CG-ND2	7.61	1.49	1.33
2	L6	28	TYR	CZ-OH	7.33	1.53	1.38
2	J6	28	TYR	CZ-OH	7.32	1.53	1.38
2	F6	28	TYR	CZ-OH	7.30	1.53	1.38
2	L2	28	TYR	CZ-OH	7.29	1.53	1.38
2	D6	28	TYR	CZ-OH	7.29	1.53	1.38
2	J2	28	TYR	CZ-OH	7.29	1.53	1.38
2	H2	28	TYR	CZ-OH	7.29	1.53	1.38
2	U2	28	TYR	CZ-OH	7.29	1.53	1.38
2	S6	28	TYR	CZ-OH	7.28	1.53	1.38
2	D2	28	TYR	CZ-OH	7.28	1.53	1.38
2	F2	28	TYR	CZ-OH	7.28	1.53	1.38
2	W2	28	TYR	CZ-OH	7.28	1.53	1.38
2	H6	28	TYR	CZ-OH	7.28	1.53	1.38
2	W6	28	TYR	CZ-OH	7.28	1.53	1.38
2	U6	28	TYR	CZ-OH	7.27	1.53	1.38
2	S2	28	TYR	CZ-OH	7.25	1.53	1.38
2	Y2	28	TYR	CZ-OH	7.25	1.53	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B2	28	TYR	CZ-OH	7.24	1.53	1.38
2	B6	28	TYR	CZ-OH	7.23	1.53	1.38
2	Y6	28	TYR	CZ-OH	7.23	1.53	1.38
2	O2	28	TYR	CZ-OH	7.23	1.53	1.38
2	Q2	28	TYR	CZ-OH	7.22	1.53	1.38
2	O6	28	TYR	CZ-OH	7.22	1.53	1.38
2	Q6	28	TYR	CZ-OH	7.21	1.53	1.38
2	H4	28	TYR	CB-CG	6.96	1.67	1.51
2	L4	28	TYR	CB-CG	6.96	1.67	1.51
2	O4	28	TYR	CB-CG	6.95	1.67	1.51
2	O8	28	TYR	CB-CG	6.95	1.67	1.51
2	F4	28	TYR	CB-CG	6.94	1.67	1.51
2	S4	28	TYR	CB-CG	6.94	1.67	1.51
2	S8	28	TYR	CB-CG	6.94	1.67	1.51
2	H8	28	TYR	CB-CG	6.94	1.67	1.51
2	L8	28	TYR	CB-CG	6.93	1.67	1.51
2	U8	28	TYR	CB-CG	6.93	1.66	1.51
2	F8	28	TYR	CB-CG	6.92	1.66	1.51
2	Q8	28	TYR	CB-CG	6.92	1.66	1.51
2	W4	28	TYR	CB-CG	6.92	1.66	1.51
2	Y8	28	TYR	CB-CG	6.91	1.66	1.51
2	W8	28	TYR	CB-CG	6.91	1.66	1.51
2	B4	28	TYR	CB-CG	6.91	1.66	1.51
2	D8	28	TYR	CB-CG	6.91	1.66	1.51
2	J8	28	TYR	CB-CG	6.90	1.66	1.51
2	Q4	28	TYR	CB-CG	6.90	1.66	1.51
2	Y4	28	TYR	CB-CG	6.90	1.66	1.51
2	U4	28	TYR	CB-CG	6.90	1.66	1.51
2	B8	28	TYR	CB-CG	6.89	1.66	1.51
2	D4	28	TYR	CB-CG	6.88	1.66	1.51
2	J4	28	TYR	CB-CG	6.88	1.66	1.51
4	N6	2	PRO	N-CA	6.61	1.56	1.47
4	N2	2	PRO	N-CA	6.56	1.56	1.47
1	A5	16	ARG	C-N	-5.41	1.26	1.33
1	A1	16	ARG	C-N	-5.34	1.26	1.33

All (947) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	V2	144	ASP	CA-C-N	-23.27	90.76	119.84
3	V2	144	ASP	C-N-CA	-23.27	90.76	119.84
3	V6	144	ASP	CA-C-N	-23.26	90.76	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	V6	144	ASP	C-N-CA	-23.26	90.76	119.84
3	C6	39	ASP	N-CA-C	-17.60	91.50	111.03
3	K4	84	ARG	NH1-CZ-NH2	-16.14	98.32	119.30
3	K8	84	ARG	NH1-CZ-NH2	-16.14	98.32	119.30
3	X4	84	ARG	NH1-CZ-NH2	-16.12	98.35	119.30
3	R4	84	ARG	NH1-CZ-NH2	-16.11	98.35	119.30
3	V8	84	ARG	NH1-CZ-NH2	-16.11	98.35	119.30
3	G4	84	ARG	NH1-CZ-NH2	-16.11	98.35	119.30
3	V4	84	ARG	NH1-CZ-NH2	-16.11	98.35	119.30
3	X8	84	ARG	NH1-CZ-NH2	-16.11	98.36	119.30
3	I8	84	ARG	NH1-CZ-NH2	-16.11	98.36	119.30
3	E8	84	ARG	NH1-CZ-NH2	-16.09	98.39	119.30
3	G8	84	ARG	NH1-CZ-NH2	-16.09	98.39	119.30
3	R8	84	ARG	NH1-CZ-NH2	-16.08	98.40	119.30
3	C4	84	ARG	NH1-CZ-NH2	-16.08	98.40	119.30
3	I4	84	ARG	NH1-CZ-NH2	-16.08	98.40	119.30
3	E4	84	ARG	NH1-CZ-NH2	-16.07	98.40	119.30
3	Z8	84	ARG	NH1-CZ-NH2	-16.07	98.40	119.30
3	M8	84	ARG	NH1-CZ-NH2	-16.07	98.41	119.30
3	Z4	84	ARG	NH1-CZ-NH2	-16.07	98.41	119.30
3	C8	84	ARG	NH1-CZ-NH2	-16.06	98.42	119.30
3	M4	84	ARG	NH1-CZ-NH2	-16.06	98.43	119.30
7	s3	83	ARG	NH1-CZ-NH2	-15.70	98.89	119.30
7	w3	83	ARG	NH1-CZ-NH2	-15.70	98.89	119.30
7	K3	83	ARG	NH1-CZ-NH2	-15.70	98.89	119.30
7	X3	83	ARG	NH1-CZ-NH2	-15.69	98.90	119.30
7	q3	83	ARG	NH1-CZ-NH2	-15.69	98.90	119.30
7	y3	83	ARG	NH1-CZ-NH2	-15.69	98.90	119.30
7	G3	83	ARG	NH1-CZ-NH2	-15.69	98.91	119.30
7	N3	83	ARG	NH1-CZ-NH2	-15.69	98.90	119.30
7	i3	83	ARG	NH1-CZ-NH2	-15.69	98.91	119.30
7	Z3	83	ARG	NH1-CZ-NH2	-15.69	98.91	119.30
7	T3	83	ARG	NH1-CZ-NH2	-15.68	98.91	119.30
7	d3	83	ARG	NH1-CZ-NH2	-15.68	98.92	119.30
7	k3	83	ARG	NH1-CZ-NH2	-15.67	98.93	119.30
7	f3	83	ARG	NH1-CZ-NH2	-15.67	98.93	119.30
7	o3	83	ARG	NH1-CZ-NH2	-15.67	98.93	119.30
7	b3	83	ARG	NH1-CZ-NH2	-15.67	98.93	119.30
7	u3	83	ARG	NH1-CZ-NH2	-15.66	98.94	119.30
7	P3	83	ARG	NH1-CZ-NH2	-15.65	98.95	119.30
7	R3	83	ARG	NH1-CZ-NH2	-15.65	98.95	119.30
7	I3	83	ARG	NH1-CZ-NH2	-15.65	98.95	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C2	39	ASP	N-CA-C	-15.32	91.48	111.24
3	R2	84	ARG	NH1-CZ-NH2	-15.11	99.65	119.30
3	X2	84	ARG	NH1-CZ-NH2	-15.09	99.68	119.30
3	T6	84	ARG	NH1-CZ-NH2	-15.09	99.68	119.30
3	I2	84	ARG	NH1-CZ-NH2	-15.09	99.68	119.30
3	M6	84	ARG	NH1-CZ-NH2	-15.09	99.69	119.30
3	R6	84	ARG	NH1-CZ-NH2	-15.09	99.69	119.30
3	K6	84	ARG	NH1-CZ-NH2	-15.09	99.69	119.30
3	K2	84	ARG	NH1-CZ-NH2	-15.08	99.70	119.30
3	I6	84	ARG	NH1-CZ-NH2	-15.08	99.70	119.30
3	M2	84	ARG	NH1-CZ-NH2	-15.08	99.70	119.30
3	T2	84	ARG	NH1-CZ-NH2	-15.07	99.70	119.30
3	G6	84	ARG	NH1-CZ-NH2	-15.07	99.70	119.30
3	E2	84	ARG	NH1-CZ-NH2	-15.07	99.71	119.30
3	Z2	84	ARG	NH1-CZ-NH2	-15.07	99.71	119.30
3	P2	84	ARG	NH1-CZ-NH2	-15.06	99.72	119.30
3	C6	84	ARG	NH1-CZ-NH2	-15.06	99.72	119.30
3	C2	84	ARG	NH1-CZ-NH2	-15.06	99.72	119.30
3	E6	84	ARG	NH1-CZ-NH2	-15.06	99.72	119.30
3	X6	84	ARG	NH1-CZ-NH2	-15.06	99.72	119.30
3	G2	84	ARG	NH1-CZ-NH2	-15.05	99.73	119.30
3	Z6	84	ARG	NH1-CZ-NH2	-15.05	99.74	119.30
3	P6	84	ARG	NH1-CZ-NH2	-15.03	99.76	119.30
8	a7	83	ARG	NH1-CZ-NH2	-14.95	99.86	119.30
8	K7	83	ARG	NH1-CZ-NH2	-14.94	99.88	119.30
8	F7	83	ARG	NH1-CZ-NH2	-14.94	99.88	119.30
8	W7	83	ARG	NH1-CZ-NH2	-14.94	99.88	119.30
8	P7	83	ARG	NH1-CZ-NH2	-14.93	99.89	119.30
8	M7	83	ARG	NH1-CZ-NH2	-14.93	99.89	119.30
8	B7	83	ARG	NH1-CZ-NH2	-14.93	99.90	119.30
8	D7	83	ARG	NH1-CZ-NH2	-14.92	99.91	119.30
8	Y7	83	ARG	NH1-CZ-NH2	-14.91	99.92	119.30
8	R7	83	ARG	NH1-CZ-NH2	-14.90	99.93	119.30
8	I7	83	ARG	NH1-CZ-NH2	-14.89	99.94	119.30
8	T7	83	ARG	NH1-CZ-NH2	-14.87	99.96	119.30
3	I5	57	ARG	NH1-CZ-NH2	-14.76	100.12	119.30
3	K5	57	ARG	NH1-CZ-NH2	-14.75	100.12	119.30
3	R5	57	ARG	NH1-CZ-NH2	-14.75	100.13	119.30
3	I1	57	ARG	NH1-CZ-NH2	-14.74	100.13	119.30
3	M5	57	ARG	NH1-CZ-NH2	-14.73	100.15	119.30
3	X5	57	ARG	NH1-CZ-NH2	-14.73	100.15	119.30
3	K1	57	ARG	NH1-CZ-NH2	-14.73	100.15	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	P5	57	ARG	NH1-CZ-NH2	-14.73	100.16	119.30
3	M1	57	ARG	NH1-CZ-NH2	-14.72	100.16	119.30
3	R1	57	ARG	NH1-CZ-NH2	-14.72	100.17	119.30
3	V1	57	ARG	NH1-CZ-NH2	-14.71	100.17	119.30
3	C5	57	ARG	NH1-CZ-NH2	-14.71	100.18	119.30
3	C1	57	ARG	NH1-CZ-NH2	-14.71	100.18	119.30
3	V5	57	ARG	NH1-CZ-NH2	-14.71	100.18	119.30
3	P1	57	ARG	NH1-CZ-NH2	-14.71	100.18	119.30
3	E1	57	ARG	NH1-CZ-NH2	-14.70	100.19	119.30
3	X1	57	ARG	NH1-CZ-NH2	-14.70	100.19	119.30
3	T5	57	ARG	NH1-CZ-NH2	-14.70	100.20	119.30
3	E5	57	ARG	NH1-CZ-NH2	-14.69	100.20	119.30
3	Z1	57	ARG	NH1-CZ-NH2	-14.69	100.21	119.30
3	Z5	57	ARG	NH1-CZ-NH2	-14.69	100.21	119.30
3	T1	57	ARG	NH1-CZ-NH2	-14.68	100.21	119.30
3	I6	84	ARG	NE-CZ-NH2	14.68	132.41	119.20
3	I2	84	ARG	NE-CZ-NH2	14.67	132.41	119.20
3	X2	84	ARG	NE-CZ-NH2	14.67	132.40	119.20
3	R2	84	ARG	NE-CZ-NH2	14.66	132.40	119.20
3	Z2	84	ARG	NE-CZ-NH2	14.66	132.39	119.20
3	R6	84	ARG	NE-CZ-NH2	14.65	132.38	119.20
3	M2	84	ARG	NE-CZ-NH2	14.63	132.37	119.20
3	X6	84	ARG	NE-CZ-NH2	14.63	132.37	119.20
3	M6	84	ARG	NE-CZ-NH2	14.63	132.36	119.20
3	C6	84	ARG	NE-CZ-NH2	14.62	132.36	119.20
3	T2	84	ARG	NE-CZ-NH2	14.62	132.36	119.20
3	E2	84	ARG	NE-CZ-NH2	14.62	132.35	119.20
3	G6	84	ARG	NE-CZ-NH2	14.62	132.35	119.20
3	K6	84	ARG	NE-CZ-NH2	14.61	132.35	119.20
3	G2	84	ARG	NE-CZ-NH2	14.61	132.35	119.20
3	K2	84	ARG	NE-CZ-NH2	14.61	132.35	119.20
3	E6	84	ARG	NE-CZ-NH2	14.60	132.34	119.20
3	C2	84	ARG	NE-CZ-NH2	14.60	132.34	119.20
3	P6	84	ARG	NE-CZ-NH2	14.59	132.33	119.20
3	Z6	84	ARG	NE-CZ-NH2	14.59	132.33	119.20
3	P2	84	ARG	NE-CZ-NH2	14.58	132.32	119.20
3	T6	84	ARG	NE-CZ-NH2	14.58	132.32	119.20
3	X1	84	ARG	NH1-CZ-NH2	-13.93	101.19	119.30
3	G5	84	ARG	NH1-CZ-NH2	-13.93	101.19	119.30
3	K5	84	ARG	NH1-CZ-NH2	-13.92	101.20	119.30
3	K1	84	ARG	NH1-CZ-NH2	-13.91	101.21	119.30
3	M1	84	ARG	NH1-CZ-NH2	-13.91	101.22	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	E5	84	ARG	NH1-CZ-NH2	-13.91	101.22	119.30
3	G1	84	ARG	NH1-CZ-NH2	-13.91	101.22	119.30
3	I1	84	ARG	NH1-CZ-NH2	-13.91	101.22	119.30
3	Z1	84	ARG	NH1-CZ-NH2	-13.90	101.23	119.30
3	I5	84	ARG	NH1-CZ-NH2	-13.90	101.23	119.30
3	C5	84	ARG	NH1-CZ-NH2	-13.90	101.23	119.30
3	P5	84	ARG	NH1-CZ-NH2	-13.90	101.23	119.30
3	Z5	84	ARG	NH1-CZ-NH2	-13.90	101.23	119.30
3	E1	84	ARG	NH1-CZ-NH2	-13.89	101.24	119.30
3	P1	84	ARG	NH1-CZ-NH2	-13.89	101.24	119.30
3	T1	84	ARG	NH1-CZ-NH2	-13.89	101.25	119.30
3	V1	84	ARG	NH1-CZ-NH2	-13.89	101.25	119.30
3	X5	84	ARG	NH1-CZ-NH2	-13.88	101.25	119.30
3	R1	84	ARG	NH1-CZ-NH2	-13.88	101.25	119.30
3	C1	84	ARG	NH1-CZ-NH2	-13.88	101.26	119.30
3	M5	84	ARG	NH1-CZ-NH2	-13.88	101.26	119.30
3	V5	84	ARG	NH1-CZ-NH2	-13.88	101.26	119.30
3	R5	84	ARG	NH1-CZ-NH2	-13.86	101.28	119.30
3	T5	84	ARG	NH1-CZ-NH2	-13.85	101.29	119.30
7	i3	83	ARG	NE-CZ-NH2	13.24	131.11	119.20
7	N3	83	ARG	NE-CZ-NH2	13.23	131.11	119.20
7	K3	83	ARG	NE-CZ-NH2	13.23	131.10	119.20
7	s3	83	ARG	NE-CZ-NH2	13.23	131.10	119.20
7	R3	83	ARG	NE-CZ-NH2	13.22	131.10	119.20
7	f3	83	ARG	NE-CZ-NH2	13.20	131.08	119.20
7	q3	83	ARG	NE-CZ-NH2	13.20	131.08	119.20
7	T3	83	ARG	NE-CZ-NH2	13.20	131.08	119.20
7	o3	83	ARG	NE-CZ-NH2	13.20	131.08	119.20
7	P3	83	ARG	NE-CZ-NH2	13.19	131.07	119.20
7	X3	83	ARG	NE-CZ-NH2	13.19	131.07	119.20
7	y3	83	ARG	NE-CZ-NH2	13.19	131.07	119.20
7	w3	83	ARG	NE-CZ-NH2	13.18	131.06	119.20
7	I3	83	ARG	NE-CZ-NH2	13.16	131.05	119.20
7	b3	83	ARG	NE-CZ-NH2	13.16	131.05	119.20
7	k3	83	ARG	NE-CZ-NH2	13.16	131.05	119.20
7	u3	83	ARG	NE-CZ-NH2	13.16	131.05	119.20
7	d3	83	ARG	NE-CZ-NH2	13.16	131.04	119.20
7	G3	83	ARG	NE-CZ-NH2	13.16	131.04	119.20
7	Z3	83	ARG	NE-CZ-NH2	13.14	131.03	119.20
8	W3	83	ARG	NE-CZ-NH2	12.88	130.79	119.20
8	O3	83	ARG	NE-CZ-NH2	12.88	130.79	119.20
8	n3	83	ARG	NE-CZ-NH2	12.87	130.78	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	z3	83	ARG	NE-CZ-NH2	12.86	130.78	119.20
8	M3	83	ARG	NE-CZ-NH2	12.86	130.78	119.20
8	U3	83	ARG	NE-CZ-NH2	12.86	130.77	119.20
8	v3	83	ARG	NE-CZ-NH2	12.85	130.77	119.20
8	j3	83	ARG	NE-CZ-NH2	12.84	130.76	119.20
8	p3	83	ARG	NE-CZ-NH2	12.84	130.75	119.20
8	r3	83	ARG	NE-CZ-NH2	12.84	130.75	119.20
8	S3	83	ARG	NE-CZ-NH2	12.84	130.75	119.20
8	e3	83	ARG	NE-CZ-NH2	12.84	130.75	119.20
8	H3	83	ARG	NE-CZ-NH2	12.83	130.75	119.20
8	L3	83	ARG	NE-CZ-NH2	12.83	130.75	119.20
8	h3	83	ARG	NE-CZ-NH2	12.83	130.75	119.20
8	l3	83	ARG	NE-CZ-NH2	12.81	130.73	119.20
8	a3	83	ARG	NE-CZ-NH2	12.81	130.73	119.20
8	c3	83	ARG	NE-CZ-NH2	12.81	130.73	119.20
8	t3	83	ARG	NE-CZ-NH2	12.80	130.72	119.20
2	Y4	86	ARG	NH1-CZ-NH2	-12.79	102.67	119.30
8	x3	83	ARG	NE-CZ-NH2	12.79	130.71	119.20
2	U8	86	ARG	NH1-CZ-NH2	-12.78	102.69	119.30
2	W4	86	ARG	NH1-CZ-NH2	-12.77	102.69	119.30
2	B4	86	ARG	NH1-CZ-NH2	-12.77	102.70	119.30
2	Q4	86	ARG	NH1-CZ-NH2	-12.76	102.71	119.30
2	B8	86	ARG	NH1-CZ-NH2	-12.76	102.71	119.30
2	W8	86	ARG	NH1-CZ-NH2	-12.76	102.71	119.30
2	F4	86	ARG	NH1-CZ-NH2	-12.76	102.71	119.30
2	U4	86	ARG	NH1-CZ-NH2	-12.76	102.71	119.30
2	O4	86	ARG	NH1-CZ-NH2	-12.76	102.71	119.30
2	L4	86	ARG	NH1-CZ-NH2	-12.76	102.72	119.30
2	J8	86	ARG	NH1-CZ-NH2	-12.76	102.72	119.30
2	O8	86	ARG	NH1-CZ-NH2	-12.76	102.72	119.30
2	Y8	86	ARG	NH1-CZ-NH2	-12.76	102.72	119.30
2	Q8	86	ARG	NH1-CZ-NH2	-12.75	102.73	119.30
2	J4	86	ARG	NH1-CZ-NH2	-12.74	102.73	119.30
2	F8	86	ARG	NH1-CZ-NH2	-12.74	102.73	119.30
2	L8	86	ARG	NH1-CZ-NH2	-12.74	102.73	119.30
2	D8	86	ARG	NH1-CZ-NH2	-12.72	102.76	119.30
2	H8	86	ARG	NH1-CZ-NH2	-12.72	102.77	119.30
2	D4	86	ARG	NH1-CZ-NH2	-12.71	102.77	119.30
2	H4	86	ARG	NH1-CZ-NH2	-12.69	102.81	119.30
3	V4	84	ARG	NE-CZ-NH2	12.60	130.54	119.20
3	V8	84	ARG	NE-CZ-NH2	12.59	130.53	119.20
3	G8	84	ARG	NE-CZ-NH2	12.58	130.52	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	R4	84	ARG	NE-CZ-NH2	12.57	130.52	119.20
3	G4	84	ARG	NE-CZ-NH2	12.56	130.50	119.20
3	R8	84	ARG	NE-CZ-NH2	12.55	130.49	119.20
3	C4	84	ARG	NE-CZ-NH2	12.55	130.49	119.20
3	X8	84	ARG	NE-CZ-NH2	12.53	130.48	119.20
3	X4	84	ARG	NE-CZ-NH2	12.53	130.47	119.20
3	K8	84	ARG	NE-CZ-NH2	12.52	130.47	119.20
3	K4	84	ARG	NE-CZ-NH2	12.52	130.46	119.20
3	C8	84	ARG	NE-CZ-NH2	12.51	130.46	119.20
3	E8	84	ARG	NE-CZ-NH2	12.51	130.46	119.20
3	I8	84	ARG	NE-CZ-NH2	12.51	130.46	119.20
3	K4	157	GLN	N-CA-C	-12.51	97.65	111.28
3	K8	157	GLN	N-CA-C	-12.50	97.65	111.28
3	I4	84	ARG	NE-CZ-NH2	12.50	130.45	119.20
3	E4	84	ARG	NE-CZ-NH2	12.49	130.44	119.20
3	M4	84	ARG	NE-CZ-NH2	12.48	130.43	119.20
3	Z8	84	ARG	NE-CZ-NH2	12.48	130.43	119.20
3	Z4	84	ARG	NE-CZ-NH2	12.47	130.43	119.20
3	M8	84	ARG	NE-CZ-NH2	12.47	130.42	119.20
3	R2	144	ASP	CA-C-N	-12.43	104.30	119.84
3	R2	144	ASP	C-N-CA	-12.43	104.30	119.84
3	R6	144	ASP	CA-C-N	-12.42	104.31	119.84
3	R6	144	ASP	C-N-CA	-12.42	104.31	119.84
8	O3	83	ARG	NH1-CZ-NH2	-12.05	103.63	119.30
8	U3	83	ARG	NH1-CZ-NH2	-12.04	103.65	119.30
8	h3	83	ARG	NH1-CZ-NH2	-12.04	103.65	119.30
8	M7	83	ARG	NE-CZ-NH2	12.04	130.03	119.20
8	z3	83	ARG	NH1-CZ-NH2	-12.03	103.66	119.30
8	D7	83	ARG	NE-CZ-NH2	12.03	130.03	119.20
8	H3	83	ARG	NH1-CZ-NH2	-12.03	103.66	119.30
8	t3	83	ARG	NH1-CZ-NH2	-12.03	103.66	119.30
8	W3	83	ARG	NH1-CZ-NH2	-12.03	103.66	119.30
8	e3	83	ARG	NH1-CZ-NH2	-12.03	103.66	119.30
8	a7	83	ARG	NE-CZ-NH2	12.03	130.03	119.20
8	P7	83	ARG	NE-CZ-NH2	12.02	130.01	119.20
8	B7	83	ARG	NE-CZ-NH2	12.02	130.01	119.20
8	l3	83	ARG	NH1-CZ-NH2	-12.01	103.69	119.30
8	r3	83	ARG	NH1-CZ-NH2	-12.01	103.69	119.30
8	L3	83	ARG	NH1-CZ-NH2	-12.01	103.69	119.30
8	K7	83	ARG	NE-CZ-NH2	12.01	130.01	119.20
8	p3	83	ARG	NH1-CZ-NH2	-12.00	103.70	119.30
8	c3	83	ARG	NH1-CZ-NH2	-12.00	103.70	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	n3	83	ARG	NH1-CZ-NH2	-12.00	103.71	119.30
8	v3	83	ARG	NH1-CZ-NH2	-12.00	103.70	119.30
8	j3	83	ARG	NH1-CZ-NH2	-11.99	103.71	119.30
8	x3	83	ARG	NH1-CZ-NH2	-11.99	103.71	119.30
8	F7	83	ARG	NE-CZ-NH2	11.99	129.99	119.20
8	M3	83	ARG	NH1-CZ-NH2	-11.99	103.71	119.30
8	a3	83	ARG	NH1-CZ-NH2	-11.99	103.72	119.30
8	R7	83	ARG	NE-CZ-NH2	11.98	129.98	119.20
8	W7	83	ARG	NE-CZ-NH2	11.98	129.98	119.20
8	Y7	83	ARG	NE-CZ-NH2	11.97	129.98	119.20
8	T7	83	ARG	NE-CZ-NH2	11.97	129.97	119.20
8	S3	83	ARG	NH1-CZ-NH2	-11.96	103.75	119.30
8	I7	83	ARG	NE-CZ-NH2	11.96	129.96	119.20
3	V4	142	VAL	N-CA-C	11.67	122.50	110.72
3	V8	142	VAL	N-CA-C	11.65	122.49	110.72
3	C6	154	SER	N-CA-C	11.53	123.84	111.28
3	G5	84	ARG	NE-CZ-NH2	11.50	129.55	119.20
3	M1	84	ARG	NE-CZ-NH2	11.50	129.55	119.20
3	X1	84	ARG	NE-CZ-NH2	11.46	129.52	119.20
3	G1	84	ARG	NE-CZ-NH2	11.46	129.51	119.20
3	M5	84	ARG	NE-CZ-NH2	11.46	129.51	119.20
3	T1	84	ARG	NE-CZ-NH2	11.44	129.50	119.20
3	C5	84	ARG	NE-CZ-NH2	11.44	129.50	119.20
3	T5	84	ARG	NE-CZ-NH2	11.44	129.49	119.20
3	Z5	84	ARG	NE-CZ-NH2	11.44	129.49	119.20
3	Z1	84	ARG	NE-CZ-NH2	11.43	129.48	119.20
3	R1	84	ARG	NE-CZ-NH2	11.42	129.48	119.20
3	K1	84	ARG	NE-CZ-NH2	11.42	129.48	119.20
3	P5	84	ARG	NE-CZ-NH2	11.42	129.48	119.20
3	E1	84	ARG	NE-CZ-NH2	11.42	129.47	119.20
3	X5	84	ARG	NE-CZ-NH2	11.41	129.47	119.20
3	K5	84	ARG	NE-CZ-NH2	11.40	129.46	119.20
3	I5	84	ARG	NE-CZ-NH2	11.40	129.46	119.20
3	E5	84	ARG	NE-CZ-NH2	11.39	129.46	119.20
3	C1	84	ARG	NE-CZ-NH2	11.39	129.45	119.20
3	I1	84	ARG	NE-CZ-NH2	11.38	129.44	119.20
3	R5	84	ARG	NE-CZ-NH2	11.37	129.43	119.20
3	P1	84	ARG	NE-CZ-NH2	11.37	129.43	119.20
3	V1	84	ARG	NE-CZ-NH2	11.36	129.42	119.20
3	V5	84	ARG	NE-CZ-NH2	11.29	129.36	119.20
3	K4	141	ILE	N-CA-C	-10.91	99.94	110.42
3	K8	141	ILE	N-CA-C	-10.91	99.95	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z5	57	ARG	NE-CZ-NH2	10.79	128.91	119.20
3	K5	57	ARG	NE-CZ-NH2	10.79	128.91	119.20
3	M1	57	ARG	NE-CZ-NH2	10.78	128.90	119.20
3	V5	57	ARG	NE-CZ-NH2	10.77	128.89	119.20
3	X1	57	ARG	NE-CZ-NH2	10.77	128.89	119.20
3	X5	57	ARG	NE-CZ-NH2	10.77	128.89	119.20
3	P1	57	ARG	NE-CZ-NH2	10.75	128.88	119.20
3	T1	57	ARG	NE-CZ-NH2	10.75	128.87	119.20
3	I5	57	ARG	NE-CZ-NH2	10.74	128.87	119.20
3	M5	57	ARG	NE-CZ-NH2	10.74	128.87	119.20
3	C1	57	ARG	NE-CZ-NH2	10.74	128.87	119.20
3	K1	57	ARG	NE-CZ-NH2	10.74	128.87	119.20
3	V1	57	ARG	NE-CZ-NH2	10.73	128.86	119.20
3	Z1	57	ARG	NE-CZ-NH2	10.72	128.85	119.20
3	I1	57	ARG	NE-CZ-NH2	10.72	128.85	119.20
3	C5	57	ARG	NE-CZ-NH2	10.72	128.85	119.20
3	T5	57	ARG	NE-CZ-NH2	10.72	128.85	119.20
3	E1	57	ARG	NE-CZ-NH2	10.72	128.84	119.20
3	P5	57	ARG	NE-CZ-NH2	10.71	128.84	119.20
3	E5	57	ARG	NE-CZ-NH2	10.70	128.82	119.20
3	R1	57	ARG	NE-CZ-NH2	10.68	128.81	119.20
3	R5	57	ARG	NE-CZ-NH2	10.67	128.81	119.20
3	K4	84	ARG	NE-CZ-NH1	9.66	131.16	121.50
3	K8	84	ARG	NE-CZ-NH1	9.66	131.16	121.50
3	X4	84	ARG	NE-CZ-NH1	9.63	131.13	121.50
3	I8	84	ARG	NE-CZ-NH1	9.63	131.13	121.50
3	M8	84	ARG	NE-CZ-NH1	9.62	131.12	121.50
3	Z8	84	ARG	NE-CZ-NH1	9.62	131.12	121.50
3	X8	84	ARG	NE-CZ-NH1	9.61	131.11	121.50
3	Z4	84	ARG	NE-CZ-NH1	9.61	131.11	121.50
3	E4	84	ARG	NE-CZ-NH1	9.60	131.10	121.50
3	I4	84	ARG	NE-CZ-NH1	9.60	131.10	121.50
3	E8	84	ARG	NE-CZ-NH1	9.60	131.10	121.50
3	M2	108	ARG	N-CA-C	9.60	121.50	111.14
3	G4	84	ARG	NE-CZ-NH1	9.59	131.09	121.50
3	M6	108	ARG	N-CA-C	9.59	121.50	111.14
3	M4	84	ARG	NE-CZ-NH1	9.59	131.09	121.50
3	R4	84	ARG	NE-CZ-NH1	9.58	131.08	121.50
3	V8	84	ARG	NE-CZ-NH1	9.58	131.08	121.50
3	C8	84	ARG	NE-CZ-NH1	9.57	131.07	121.50
3	V4	84	ARG	NE-CZ-NH1	9.56	131.06	121.50
3	R8	84	ARG	NE-CZ-NH1	9.56	131.06	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C4	84	ARG	NE-CZ-NH1	9.55	131.05	121.50
3	G8	84	ARG	NE-CZ-NH1	9.54	131.04	121.50
1	A1	209	VAL	CA-C-N	9.54	131.76	119.84
1	A1	209	VAL	C-N-CA	9.54	131.76	119.84
3	X6	110	LEU	N-CA-C	9.45	121.58	111.28
3	X2	110	LEU	N-CA-C	9.45	121.58	111.28
3	P2	110	LEU	N-CA-C	9.43	121.56	111.28
3	P6	110	LEU	N-CA-C	9.41	121.54	111.28
2	S8	152	ASN	N-CA-C	-9.18	101.28	111.28
2	S4	152	ASN	N-CA-C	-9.17	101.28	111.28
4	N2	226	LEU	CA-CB-CG	9.13	148.27	116.30
4	N6	226	LEU	CA-CB-CG	9.13	148.25	116.30
3	C8	45	THR	N-CA-C	9.13	121.31	111.36
3	P8	155	SER	N-CA-C	9.12	120.99	111.14
3	C4	45	THR	N-CA-C	9.12	121.30	111.36
3	P4	155	SER	N-CA-C	9.12	120.98	111.14
3	V6	39	ASP	N-CA-C	-9.06	101.40	111.28
3	V2	39	ASP	N-CA-C	-9.05	101.42	111.28
3	I6	108	ARG	N-CA-C	8.97	120.83	111.14
3	I2	110	LEU	N-CA-C	8.96	121.05	111.28
3	I2	108	ARG	N-CA-C	8.95	120.80	111.14
3	I6	110	LEU	N-CA-C	8.94	121.03	111.28
1	A2	191	PHE	CA-C-N	-8.83	110.30	119.83
1	A2	191	PHE	C-N-CA	-8.83	110.30	119.83
5	03	328	GLN	N-CA-C	8.82	120.98	111.36
2	B4	86	ARG	NE-CZ-NH1	8.82	130.32	121.50
2	B8	86	ARG	NE-CZ-NH1	8.80	130.31	121.50
2	Y4	86	ARG	NE-CZ-NH1	8.80	130.30	121.50
2	W4	86	ARG	NE-CZ-NH1	8.79	130.29	121.50
2	F4	86	ARG	NE-CZ-NH1	8.79	130.29	121.50
3	V8	141	ILE	N-CA-C	-8.79	102.27	110.53
2	O8	86	ARG	NE-CZ-NH1	8.78	130.28	121.50
2	U4	86	ARG	NE-CZ-NH1	8.78	130.28	121.50
2	L8	86	ARG	NE-CZ-NH1	8.78	130.28	121.50
2	J8	86	ARG	NE-CZ-NH1	8.77	130.27	121.50
2	U8	86	ARG	NE-CZ-NH1	8.77	130.27	121.50
3	V4	141	ILE	N-CA-C	-8.76	102.29	110.53
2	F8	86	ARG	NE-CZ-NH1	8.76	130.26	121.50
2	J4	86	ARG	NE-CZ-NH1	8.76	130.26	121.50
2	W8	86	ARG	NE-CZ-NH1	8.76	130.26	121.50
2	L4	86	ARG	NE-CZ-NH1	8.76	130.26	121.50
2	O4	86	ARG	NE-CZ-NH1	8.76	130.25	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y8	86	ARG	NE-CZ-NH1	8.75	130.25	121.50
2	Q8	86	ARG	NE-CZ-NH1	8.74	130.25	121.50
2	Q4	86	ARG	NE-CZ-NH1	8.74	130.24	121.50
2	H8	86	ARG	NE-CZ-NH1	8.74	130.24	121.50
2	H4	86	ARG	NE-CZ-NH1	8.73	130.24	121.50
2	D8	86	ARG	NE-CZ-NH1	8.73	130.23	121.50
2	U4	152	ASN	N-CA-C	-8.68	101.82	111.28
2	U8	152	ASN	N-CA-C	-8.68	101.82	111.28
2	D4	86	ARG	NE-CZ-NH1	8.67	130.17	121.50
8	W7	83	ARG	NE-CZ-NH1	8.62	130.12	121.50
8	F7	83	ARG	NE-CZ-NH1	8.61	130.11	121.50
2	J8	152	ASN	N-CA-C	-8.61	101.90	111.28
8	K7	83	ARG	NE-CZ-NH1	8.60	130.10	121.50
8	a7	83	ARG	NE-CZ-NH1	8.60	130.10	121.50
8	Y7	83	ARG	NE-CZ-NH1	8.59	130.09	121.50
2	J4	152	ASN	N-CA-C	-8.58	101.93	111.28
8	P7	83	ARG	NE-CZ-NH1	8.58	130.08	121.50
8	I7	83	ARG	NE-CZ-NH1	8.58	130.08	121.50
8	B7	83	ARG	NE-CZ-NH1	8.57	130.07	121.50
8	R7	83	ARG	NE-CZ-NH1	8.57	130.07	121.50
7	Z3	83	ARG	NE-CZ-NH1	8.56	130.06	121.50
8	M7	83	ARG	NE-CZ-NH1	8.56	130.06	121.50
7	w3	83	ARG	NE-CZ-NH1	8.55	130.05	121.50
7	G3	83	ARG	NE-CZ-NH1	8.55	130.05	121.50
8	T7	83	ARG	NE-CZ-NH1	8.55	130.05	121.50
8	D7	83	ARG	NE-CZ-NH1	8.55	130.05	121.50
7	d3	83	ARG	NE-CZ-NH1	8.53	130.03	121.50
7	X3	83	ARG	NE-CZ-NH1	8.53	130.03	121.50
7	k3	83	ARG	NE-CZ-NH1	8.53	130.03	121.50
7	y3	83	ARG	NE-CZ-NH1	8.52	130.02	121.50
7	b3	83	ARG	NE-CZ-NH1	8.52	130.02	121.50
7	q3	83	ARG	NE-CZ-NH1	8.51	130.01	121.50
7	u3	83	ARG	NE-CZ-NH1	8.51	130.01	121.50
7	s3	83	ARG	NE-CZ-NH1	8.51	130.01	121.50
7	T3	83	ARG	NE-CZ-NH1	8.51	130.00	121.50
7	K3	83	ARG	NE-CZ-NH1	8.50	130.00	121.50
7	I3	83	ARG	NE-CZ-NH1	8.50	130.00	121.50
7	o3	83	ARG	NE-CZ-NH1	8.49	129.99	121.50
7	N3	83	ARG	NE-CZ-NH1	8.49	129.99	121.50
7	f3	83	ARG	NE-CZ-NH1	8.49	129.99	121.50
7	i3	83	ARG	NE-CZ-NH1	8.48	129.98	121.50
7	P3	83	ARG	NE-CZ-NH1	8.47	129.97	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Q4	86	ARG	NE-CZ-NH2	8.47	126.82	119.20
2	D4	86	ARG	NE-CZ-NH2	8.47	126.82	119.20
2	U8	86	ARG	NE-CZ-NH2	8.46	126.82	119.20
7	R3	83	ARG	NE-CZ-NH1	8.45	129.95	121.50
2	Q8	86	ARG	NE-CZ-NH2	8.45	126.80	119.20
2	O4	86	ARG	NE-CZ-NH2	8.44	126.80	119.20
2	Y8	86	ARG	NE-CZ-NH2	8.44	126.80	119.20
2	L4	86	ARG	NE-CZ-NH2	8.44	126.80	119.20
2	U4	86	ARG	NE-CZ-NH2	8.43	126.79	119.20
2	Y4	86	ARG	NE-CZ-NH2	8.43	126.79	119.20
2	W8	86	ARG	NE-CZ-NH2	8.43	126.79	119.20
3	X4	141	ILE	N-CA-C	-8.42	102.61	110.53
2	J8	86	ARG	NE-CZ-NH2	8.42	126.78	119.20
2	J4	86	ARG	NE-CZ-NH2	8.42	126.78	119.20
2	W4	86	ARG	NE-CZ-NH2	8.41	126.77	119.20
2	D8	86	ARG	NE-CZ-NH2	8.41	126.77	119.20
3	X8	141	ILE	N-CA-C	-8.41	102.62	110.53
2	F8	86	ARG	NE-CZ-NH2	8.41	126.77	119.20
2	O8	86	ARG	NE-CZ-NH2	8.41	126.77	119.20
2	F4	86	ARG	NE-CZ-NH2	8.41	126.77	119.20
2	H8	86	ARG	NE-CZ-NH2	8.40	126.76	119.20
2	L8	86	ARG	NE-CZ-NH2	8.39	126.76	119.20
2	B4	86	ARG	NE-CZ-NH2	8.39	126.75	119.20
2	B8	86	ARG	NE-CZ-NH2	8.39	126.75	119.20
3	R4	157	GLN	N-CA-C	-8.38	102.14	111.28
2	H4	86	ARG	NE-CZ-NH2	8.36	126.73	119.20
3	R8	157	GLN	N-CA-C	-8.34	102.19	111.28
2	Y4	139	ASN	N-CA-C	8.29	120.39	111.36
2	Y8	139	ASN	N-CA-C	8.27	120.37	111.36
2	W8	152	ASN	N-CA-C	-8.20	102.35	111.28
2	W4	152	ASN	N-CA-C	-8.17	102.38	111.28
3	T4	141	ILE	N-CA-C	-8.02	102.99	110.53
3	T8	141	ILE	N-CA-C	-8.01	103.01	110.53
2	Y4	152	ASN	N-CA-C	-7.95	102.62	111.28
4	N1	248	THR	CA-C-N	7.94	127.86	119.05
4	N1	248	THR	C-N-CA	7.94	127.86	119.05
2	Y8	152	ASN	N-CA-C	-7.93	102.64	111.28
4	N5	248	THR	CA-C-N	7.92	127.84	119.05
4	N5	248	THR	C-N-CA	7.92	127.84	119.05
3	I8	141	ILE	N-CA-C	-7.80	103.20	110.53
3	C4	46	ASN	N-CA-C	7.69	119.66	111.28
3	C8	46	ASN	N-CA-C	7.69	119.66	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K2	35	THR	OG1-CB-CG2	-7.54	94.22	109.30
3	E2	35	THR	OG1-CB-CG2	-7.54	94.23	109.30
3	M2	35	THR	OG1-CB-CG2	-7.54	94.23	109.30
3	R2	35	THR	OG1-CB-CG2	-7.54	94.23	109.30
3	I6	35	THR	OG1-CB-CG2	-7.54	94.23	109.30
3	P2	35	THR	OG1-CB-CG2	-7.53	94.23	109.30
3	E6	35	THR	OG1-CB-CG2	-7.53	94.23	109.30
3	G6	35	THR	OG1-CB-CG2	-7.53	94.23	109.30
3	T2	35	THR	OG1-CB-CG2	-7.53	94.24	109.30
3	R6	35	THR	OG1-CB-CG2	-7.53	94.24	109.30
3	T6	35	THR	OG1-CB-CG2	-7.53	94.24	109.30
3	X6	35	THR	OG1-CB-CG2	-7.53	94.24	109.30
3	M6	35	THR	OG1-CB-CG2	-7.53	94.24	109.30
3	I2	35	THR	OG1-CB-CG2	-7.53	94.25	109.30
3	X2	35	THR	OG1-CB-CG2	-7.53	94.25	109.30
3	C2	35	THR	OG1-CB-CG2	-7.53	94.25	109.30
3	K6	35	THR	OG1-CB-CG2	-7.53	94.25	109.30
3	Z2	35	THR	OG1-CB-CG2	-7.52	94.26	109.30
3	C6	35	THR	OG1-CB-CG2	-7.52	94.25	109.30
3	Z6	35	THR	OG1-CB-CG2	-7.52	94.26	109.30
3	P6	35	THR	OG1-CB-CG2	-7.52	94.26	109.30
3	V2	35	THR	OG1-CB-CG2	-7.52	94.27	109.30
3	G2	35	THR	OG1-CB-CG2	-7.51	94.27	109.30
3	V6	35	THR	OG1-CB-CG2	-7.50	94.30	109.30
3	I6	154	SER	CA-C-N	-7.48	108.05	121.14
3	I6	154	SER	C-N-CA	-7.48	108.05	121.14
3	I2	154	SER	CA-C-N	-7.47	108.06	121.14
3	I2	154	SER	C-N-CA	-7.47	108.06	121.14
3	I4	142	VAL	N-CA-C	7.46	118.25	110.72
3	I8	142	VAL	N-CA-C	7.44	118.24	110.72
3	I4	141	ILE	N-CA-C	-7.43	103.21	110.72
2	D4	28	TYR	CA-CB-CG	7.40	127.21	113.90
2	W4	28	TYR	CA-CB-CG	7.40	127.21	113.90
2	F8	28	TYR	CA-CB-CG	7.40	127.21	113.90
2	J8	28	TYR	CA-CB-CG	7.39	127.20	113.90
2	H8	28	TYR	CA-CB-CG	7.39	127.20	113.90
2	W8	28	TYR	CA-CB-CG	7.39	127.20	113.90
2	O4	28	TYR	CA-CB-CG	7.39	127.20	113.90
2	H4	28	TYR	CA-CB-CG	7.38	127.19	113.90
2	Q4	28	TYR	CA-CB-CG	7.38	127.19	113.90
2	D8	28	TYR	CA-CB-CG	7.38	127.19	113.90
2	J4	28	TYR	CA-CB-CG	7.38	127.19	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	O8	28	TYR	CA-CB-CG	7.38	127.19	113.90
2	Q8	28	TYR	CA-CB-CG	7.38	127.18	113.90
2	F4	28	TYR	CA-CB-CG	7.37	127.17	113.90
2	Y4	28	TYR	CA-CB-CG	7.37	127.17	113.90
2	Y8	28	TYR	CA-CB-CG	7.37	127.17	113.90
2	S8	28	TYR	CA-CB-CG	7.37	127.16	113.90
2	U8	28	TYR	CA-CB-CG	7.37	127.16	113.90
2	U4	28	TYR	CA-CB-CG	7.37	127.16	113.90
2	S4	28	TYR	CA-CB-CG	7.37	127.16	113.90
2	B8	28	TYR	CA-CB-CG	7.36	127.15	113.90
2	B4	28	TYR	CA-CB-CG	7.36	127.15	113.90
2	L8	28	TYR	CA-CB-CG	7.36	127.15	113.90
2	L4	28	TYR	CA-CB-CG	7.35	127.14	113.90
3	Z4	157	GLN	N-CA-C	-7.30	103.33	111.28
3	Z8	157	GLN	N-CA-C	-7.29	103.33	111.28
3	P5	39	ASP	OD1-CG-OD2	-7.29	105.41	122.90
3	K5	39	ASP	OD1-CG-OD2	-7.29	105.41	122.90
3	G5	39	ASP	OD1-CG-OD2	-7.28	105.42	122.90
3	R5	39	ASP	OD1-CG-OD2	-7.28	105.42	122.90
3	Z5	39	ASP	OD1-CG-OD2	-7.28	105.42	122.90
3	P1	39	ASP	OD1-CG-OD2	-7.28	105.43	122.90
3	G1	39	ASP	OD1-CG-OD2	-7.28	105.44	122.90
3	P2	156	LEU	CA-CB-CG	-7.28	90.84	116.30
3	P6	156	LEU	CA-CB-CG	-7.28	90.83	116.30
3	T1	39	ASP	OD1-CG-OD2	-7.27	105.45	122.90
3	Z1	39	ASP	OD1-CG-OD2	-7.27	105.44	122.90
3	G6	156	LEU	CA-CB-CG	-7.27	90.85	116.30
3	X1	39	ASP	OD1-CG-OD2	-7.27	105.45	122.90
3	G2	156	LEU	CA-CB-CG	-7.27	90.85	116.30
3	I5	39	ASP	OD1-CG-OD2	-7.27	105.45	122.90
3	C1	39	ASP	OD1-CG-OD2	-7.27	105.45	122.90
3	K1	39	ASP	OD1-CG-OD2	-7.27	105.45	122.90
3	V5	39	ASP	OD1-CG-OD2	-7.27	105.45	122.90
3	R1	39	ASP	OD1-CG-OD2	-7.27	105.46	122.90
3	T5	39	ASP	OD1-CG-OD2	-7.26	105.47	122.90
3	E1	39	ASP	OD1-CG-OD2	-7.26	105.47	122.90
3	C5	39	ASP	OD1-CG-OD2	-7.26	105.47	122.90
3	V1	39	ASP	OD1-CG-OD2	-7.26	105.48	122.90
3	X5	39	ASP	OD1-CG-OD2	-7.26	105.48	122.90
3	I1	39	ASP	OD1-CG-OD2	-7.26	105.48	122.90
3	C2	156	LEU	CA-CB-CG	-7.26	90.90	116.30
3	M1	39	ASP	OD1-CG-OD2	-7.26	105.48	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	E2	156	LEU	CA-CB-CG	-7.26	90.90	116.30
3	C6	156	LEU	CA-CB-CG	-7.26	90.91	116.30
3	Z2	156	LEU	CA-CB-CG	-7.25	90.92	116.30
3	M5	39	ASP	OD1-CG-OD2	-7.25	105.50	122.90
3	E6	156	LEU	CA-CB-CG	-7.25	90.93	116.30
3	Z6	156	LEU	CA-CB-CG	-7.25	90.93	116.30
3	I2	156	LEU	CA-CB-CG	-7.25	90.94	116.30
3	E5	39	ASP	OD1-CG-OD2	-7.25	105.51	122.90
3	I6	156	LEU	CA-CB-CG	-7.25	90.94	116.30
3	X2	111	ASN	N-CA-C	7.22	119.15	111.28
3	X6	111	ASN	N-CA-C	7.21	119.14	111.28
3	X6	153	CYS	N-CA-C	-7.19	103.44	111.28
3	X2	153	CYS	N-CA-C	-7.17	103.47	111.28
3	P6	111	ASN	N-CA-C	7.17	119.17	111.36
3	T4	142	VAL	N-CA-C	7.15	117.94	110.72
3	T8	142	VAL	N-CA-C	7.14	117.93	110.72
3	P2	111	ASN	N-CA-C	7.13	119.14	111.36
3	T8	157	GLN	N-CA-C	-7.11	103.53	111.28
3	V5	84	ARG	NE-CZ-NH1	7.09	128.59	121.50
3	T4	157	GLN	N-CA-C	-7.07	103.57	111.28
3	I1	84	ARG	NE-CZ-NH1	7.05	128.55	121.50
3	K5	84	ARG	NE-CZ-NH1	7.05	128.55	121.50
3	P1	84	ARG	NE-CZ-NH1	7.04	128.54	121.50
3	V1	84	ARG	NE-CZ-NH1	7.04	128.54	121.50
3	E5	84	ARG	NE-CZ-NH1	7.04	128.53	121.50
3	K1	84	ARG	NE-CZ-NH1	7.02	128.52	121.50
3	I5	84	ARG	NE-CZ-NH1	7.02	128.52	121.50
3	X1	84	ARG	NE-CZ-NH1	7.01	128.51	121.50
3	P5	84	ARG	NE-CZ-NH1	7.01	128.51	121.50
3	C1	84	ARG	NE-CZ-NH1	7.00	128.50	121.50
3	Z1	84	ARG	NE-CZ-NH1	7.00	128.50	121.50
4	N1	251	TYR	CA-C-N	-7.00	112.57	119.64
4	N1	251	TYR	C-N-CA	-7.00	112.57	119.64
3	E1	84	ARG	NE-CZ-NH1	7.00	128.50	121.50
3	G1	84	ARG	NE-CZ-NH1	7.00	128.50	121.50
3	R5	84	ARG	NE-CZ-NH1	6.99	128.49	121.50
3	X5	84	ARG	NE-CZ-NH1	6.99	128.49	121.50
3	C5	84	ARG	NE-CZ-NH1	6.99	128.49	121.50
3	G5	84	ARG	NE-CZ-NH1	6.99	128.49	121.50
4	N5	251	TYR	CA-C-N	-6.98	112.59	119.64
4	N5	251	TYR	C-N-CA	-6.98	112.59	119.64
3	R1	84	ARG	NE-CZ-NH1	6.98	128.48	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K8	156	LEU	N-CA-C	6.97	118.96	111.36
3	Z5	84	ARG	NE-CZ-NH1	6.97	128.47	121.50
3	T1	84	ARG	NE-CZ-NH1	6.97	128.47	121.50
3	K4	156	LEU	N-CA-C	6.97	118.95	111.36
3	M5	84	ARG	NE-CZ-NH1	6.95	128.45	121.50
3	R8	134	MET	N-CA-C	-6.95	103.70	111.28
3	M1	84	ARG	NE-CZ-NH1	6.95	128.45	121.50
3	T5	84	ARG	NE-CZ-NH1	6.94	128.44	121.50
3	R4	134	MET	N-CA-C	-6.92	103.74	111.28
4	N2	153	TYR	CA-C-N	6.90	130.50	120.91
4	N2	153	TYR	C-N-CA	6.90	130.50	120.91
4	N6	153	TYR	CA-C-N	6.89	130.49	120.91
4	N6	153	TYR	C-N-CA	6.89	130.49	120.91
2	L4	139	ASN	N-CA-C	6.82	121.31	112.92
2	L8	139	ASN	N-CA-C	6.81	121.29	112.92
2	D8	152	ASN	N-CA-C	-6.80	103.87	111.28
2	D4	152	ASN	N-CA-C	-6.78	103.89	111.28
4	N2	3	VAL	CG1-CB-CG2	-6.72	96.02	110.80
4	N6	3	VAL	CG1-CB-CG2	-6.72	96.02	110.80
4	N2	2	PRO	N-CA-C	6.68	128.80	112.10
4	N6	2	PRO	N-CA-C	6.68	128.80	112.10
3	M2	110	LEU	N-CA-C	6.67	118.55	111.28
3	M6	110	LEU	N-CA-C	6.65	118.53	111.28
3	C8	141	ILE	N-CA-C	-6.63	104.30	110.53
3	M4	157	GLN	N-CA-C	-6.61	104.07	111.28
3	M8	157	GLN	N-CA-C	-6.61	104.07	111.28
7	O7	117	LYS	N-CA-C	-6.56	103.96	112.23
3	Z2	155	SER	N-CA-C	-6.55	104.14	111.28
3	Z6	155	SER	N-CA-C	-6.55	104.14	111.28
4	N8	45	ASN	N-CA-C	-6.53	103.58	113.51
7	V7	117	LYS	N-CA-C	-6.52	104.02	112.23
2	B4	152	ASN	N-CA-C	-6.51	104.19	111.28
4	N4	45	ASN	N-CA-C	-6.51	103.62	113.51
2	B8	152	ASN	N-CA-C	-6.50	104.19	111.28
2	H4	57	GLN	CB-CG-CD	6.50	123.64	112.60
7	H7	117	LYS	N-CA-C	-6.49	104.05	112.23
2	D8	57	GLN	CB-CG-CD	6.49	123.63	112.60
2	W4	57	GLN	CB-CG-CD	6.48	123.62	112.60
2	D4	57	GLN	CB-CG-CD	6.48	123.61	112.60
2	S4	57	GLN	CB-CG-CD	6.48	123.62	112.60
2	W8	57	GLN	CB-CG-CD	6.47	123.61	112.60
2	H8	57	GLN	CB-CG-CD	6.47	123.60	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F8	57	GLN	CB-CG-CD	6.47	123.60	112.60
2	S8	57	GLN	CB-CG-CD	6.47	123.60	112.60
2	B8	57	GLN	CB-CG-CD	6.47	123.59	112.60
2	B4	57	GLN	CB-CG-CD	6.46	123.59	112.60
2	L4	57	GLN	CB-CG-CD	6.46	123.59	112.60
2	J8	57	GLN	CB-CG-CD	6.46	123.59	112.60
2	F4	57	GLN	CB-CG-CD	6.46	123.58	112.60
2	J4	57	GLN	CB-CG-CD	6.46	123.58	112.60
3	V6	144	ASP	O-C-N	-6.46	114.30	121.53
2	O8	57	GLN	CB-CG-CD	6.46	123.58	112.60
2	Q8	57	GLN	CB-CG-CD	6.46	123.58	112.60
3	T6	84	ARG	NE-CZ-NH1	6.46	127.96	121.50
2	Q4	57	GLN	CB-CG-CD	6.46	123.57	112.60
2	Y4	57	GLN	CB-CG-CD	6.46	123.57	112.60
2	Y8	57	GLN	CB-CG-CD	6.45	123.57	112.60
2	O4	57	GLN	CB-CG-CD	6.45	123.56	112.60
3	V2	144	ASP	O-C-N	-6.45	114.31	121.53
7	A7	117	LYS	N-CA-C	-6.44	104.11	112.23
2	L8	57	GLN	CB-CG-CD	6.44	123.55	112.60
2	U8	57	GLN	CB-CG-CD	6.44	123.55	112.60
5	13	762	ARG	CA-CB-CG	6.42	126.95	114.10
3	P2	84	ARG	NE-CZ-NH1	6.42	127.92	121.50
3	K6	84	ARG	NE-CZ-NH1	6.42	127.92	121.50
3	K2	84	ARG	NE-CZ-NH1	6.41	127.91	121.50
3	M6	84	ARG	NE-CZ-NH1	6.41	127.91	121.50
3	R2	84	ARG	NE-CZ-NH1	6.41	127.91	121.50
2	U4	57	GLN	CB-CG-CD	6.40	123.48	112.60
3	E6	84	ARG	NE-CZ-NH1	6.40	127.90	121.50
3	G6	84	ARG	NE-CZ-NH1	6.40	127.90	121.50
5	03	762	ARG	CA-CB-CG	6.40	126.90	114.10
3	T2	84	ARG	NE-CZ-NH1	6.40	127.90	121.50
3	C2	84	ARG	NE-CZ-NH1	6.39	127.89	121.50
3	E2	84	ARG	NE-CZ-NH1	6.39	127.89	121.50
3	M2	84	ARG	NE-CZ-NH1	6.39	127.89	121.50
3	C6	37	ARG	CA-C-N	-6.39	112.58	122.49
3	C6	37	ARG	C-N-CA	-6.39	112.58	122.49
3	R6	84	ARG	NE-CZ-NH1	6.39	127.89	121.50
3	Z6	84	ARG	NE-CZ-NH1	6.39	127.89	121.50
4	N8	226	LEU	CA-CB-CG	6.39	138.66	116.30
4	N4	226	LEU	CA-CB-CG	6.38	138.65	116.30
3	X2	84	ARG	NE-CZ-NH1	6.38	127.88	121.50
3	G2	84	ARG	NE-CZ-NH1	6.37	127.87	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C6	84	ARG	NE-CZ-NH1	6.37	127.87	121.50
3	C2	37	ARG	CA-C-N	-6.37	112.61	122.49
3	C2	37	ARG	C-N-CA	-6.37	112.61	122.49
3	I2	84	ARG	NE-CZ-NH1	6.37	127.87	121.50
3	X6	84	ARG	NE-CZ-NH1	6.37	127.87	121.50
3	P6	84	ARG	NE-CZ-NH1	6.37	127.86	121.50
3	I6	84	ARG	NE-CZ-NH1	6.36	127.86	121.50
3	Z2	84	ARG	NE-CZ-NH1	6.35	127.85	121.50
7	X7	117	LYS	N-CA-C	-6.34	104.24	112.23
3	R2	39	ASP	N-CA-C	-6.32	104.39	111.28
3	R6	39	ASP	N-CA-C	-6.31	104.41	111.28
3	Z2	39	ASP	N-CA-C	-6.29	104.50	111.36
3	Z6	39	ASP	N-CA-C	-6.29	104.50	111.36
3	P6	39	ASP	N-CA-C	-6.29	104.51	111.36
3	P2	39	ASP	N-CA-C	-6.28	104.52	111.36
3	R8	156	LEU	N-CA-C	6.27	118.19	111.36
3	R4	156	LEU	N-CA-C	6.26	118.18	111.36
3	X6	39	ASP	N-CA-C	-6.22	104.58	111.36
3	X2	39	ASP	N-CA-C	-6.21	104.59	111.36
3	E2	39	ASP	N-CA-C	-6.20	104.60	111.36
3	E6	39	ASP	N-CA-C	-6.20	104.60	111.36
3	M4	141	ILE	N-CA-C	-6.18	104.72	110.53
3	M8	141	ILE	N-CA-C	-6.17	104.73	110.53
3	V6	145	PRO	CA-C-N	-6.17	113.26	122.39
3	V6	145	PRO	C-N-CA	-6.17	113.26	122.39
3	T2	39	ASP	N-CA-C	-6.16	104.64	111.36
7	C7	117	LYS	N-CA-C	-6.16	104.47	112.23
3	T6	39	ASP	N-CA-C	-6.15	104.65	111.36
3	V2	145	PRO	CA-C-N	-6.14	113.30	122.39
3	V2	145	PRO	C-N-CA	-6.14	113.30	122.39
3	E6	41	VAL	N-CA-C	-6.14	104.36	110.62
1	A1	127	ILE	CA-CB-CG1	6.13	120.82	110.40
1	A5	127	ILE	CA-CB-CG1	6.11	120.79	110.40
3	E2	41	VAL	N-CA-C	-6.11	104.39	110.62
3	V2	37	ARG	CA-C-N	-6.09	112.58	122.26
3	V2	37	ARG	C-N-CA	-6.09	112.58	122.26
3	R6	37	ARG	CA-C-N	-6.08	112.59	122.26
3	R6	37	ARG	C-N-CA	-6.08	112.59	122.26
3	T2	37	ARG	CA-C-N	-6.08	112.59	122.26
3	T2	37	ARG	C-N-CA	-6.08	112.59	122.26
3	R2	37	ARG	CA-C-N	-6.07	112.60	122.26
3	R2	37	ARG	C-N-CA	-6.07	112.60	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z6	37	ARG	CA-C-N	-6.07	112.60	122.26
3	Z6	37	ARG	C-N-CA	-6.07	112.60	122.26
3	V6	37	ARG	CA-C-N	-6.07	112.61	122.26
3	V6	37	ARG	C-N-CA	-6.07	112.61	122.26
3	E2	37	ARG	CA-C-N	-6.07	112.61	122.26
3	E2	37	ARG	C-N-CA	-6.07	112.61	122.26
3	T6	37	ARG	CA-C-N	-6.06	112.62	122.26
3	T6	37	ARG	C-N-CA	-6.06	112.62	122.26
3	E6	37	ARG	CA-C-N	-6.06	112.62	122.26
3	E6	37	ARG	C-N-CA	-6.06	112.62	122.26
3	X6	41	VAL	N-CA-C	-6.06	104.44	110.62
3	P6	37	ARG	CA-C-N	-6.06	112.63	122.26
3	P6	37	ARG	C-N-CA	-6.06	112.63	122.26
3	Z2	37	ARG	CA-C-N	-6.06	112.63	122.26
3	Z2	37	ARG	C-N-CA	-6.06	112.63	122.26
3	X2	37	ARG	CA-C-N	-6.05	112.63	122.26
3	X2	37	ARG	C-N-CA	-6.05	112.63	122.26
3	P2	37	ARG	CA-C-N	-6.05	112.64	122.26
3	P2	37	ARG	C-N-CA	-6.05	112.64	122.26
3	X6	37	ARG	CA-C-N	-6.05	112.64	122.26
3	X6	37	ARG	C-N-CA	-6.05	112.64	122.26
3	X2	41	VAL	N-CA-C	-6.04	104.45	110.62
3	T2	41	VAL	N-CA-C	-5.96	104.54	110.62
3	P2	41	VAL	N-CA-C	-5.96	104.54	110.62
3	T6	41	VAL	N-CA-C	-5.96	104.54	110.62
3	V2	154	SER	N-CA-C	5.96	117.78	111.28
3	V6	154	SER	N-CA-C	5.95	117.77	111.28
3	P6	41	VAL	N-CA-C	-5.92	104.58	110.62
6	b7	21	GLU	N-CA-C	5.92	119.56	111.39
3	R6	156	LEU	N-CA-C	5.91	117.72	111.28
3	R2	156	LEU	N-CA-C	5.89	117.70	111.28
3	G8	38	SER	CA-C-N	-5.87	111.14	122.06
3	G8	38	SER	C-N-CA	-5.87	111.14	122.06
3	E4	38	SER	CA-C-N	-5.86	111.16	122.06
3	E4	38	SER	C-N-CA	-5.86	111.16	122.06
3	C4	38	SER	CA-C-N	-5.86	111.16	122.06
3	C4	38	SER	C-N-CA	-5.86	111.16	122.06
3	R4	38	SER	CA-C-N	-5.86	111.17	122.06
3	R4	38	SER	C-N-CA	-5.86	111.17	122.06
3	T4	38	SER	CA-C-N	-5.86	111.17	122.06
3	T4	38	SER	C-N-CA	-5.86	111.17	122.06
3	E8	38	SER	CA-C-N	-5.86	111.16	122.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	E8	38	SER	C-N-CA	-5.86	111.16	122.06
3	I8	38	SER	CA-C-N	-5.85	111.17	122.06
3	I8	38	SER	C-N-CA	-5.85	111.17	122.06
3	C8	38	SER	CA-C-N	-5.85	111.18	122.06
3	C8	38	SER	C-N-CA	-5.85	111.18	122.06
3	I4	38	SER	CA-C-N	-5.85	111.19	122.06
3	I4	38	SER	C-N-CA	-5.85	111.19	122.06
3	G4	38	SER	CA-C-N	-5.84	111.19	122.06
3	G4	38	SER	C-N-CA	-5.84	111.19	122.06
3	K8	38	SER	CA-C-N	-5.84	111.19	122.06
3	K8	38	SER	C-N-CA	-5.84	111.19	122.06
3	R8	38	SER	CA-C-N	-5.84	111.19	122.06
3	R8	38	SER	C-N-CA	-5.84	111.19	122.06
3	K4	38	SER	CA-C-N	-5.84	111.20	122.06
3	K4	38	SER	C-N-CA	-5.84	111.20	122.06
3	M4	38	SER	CA-C-N	-5.83	111.21	122.06
3	M4	38	SER	C-N-CA	-5.83	111.21	122.06
3	P8	38	SER	CA-C-N	-5.83	111.21	122.06
3	P8	38	SER	C-N-CA	-5.83	111.21	122.06
3	M8	38	SER	CA-C-N	-5.83	111.22	122.06
3	M8	38	SER	C-N-CA	-5.83	111.22	122.06
3	T8	38	SER	CA-C-N	-5.82	111.23	122.06
3	T8	38	SER	C-N-CA	-5.82	111.23	122.06
3	P4	38	SER	CA-C-N	-5.82	111.23	122.06
3	P4	38	SER	C-N-CA	-5.82	111.23	122.06
3	I6	111	ASN	N-CA-C	5.82	117.62	111.28
1	A2	22	VAL	CA-CB-CG2	-5.81	100.52	110.40
3	I2	111	ASN	N-CA-C	5.81	117.61	111.28
1	A6	22	VAL	CA-CB-CG2	-5.80	100.53	110.40
4	N5	251	TYR	N-CA-C	5.73	121.30	113.16
4	N1	251	TYR	N-CA-C	5.72	121.29	113.16
3	R8	154	SER	N-CA-C	5.70	117.49	111.28
1	A5	209	VAL	CA-C-N	5.68	126.95	119.84
1	A5	209	VAL	C-N-CA	5.68	126.95	119.84
3	R4	154	SER	N-CA-C	5.68	117.47	111.28
3	P2	37	ARG	CG-CD-NE	5.67	124.47	112.00
3	P6	37	ARG	CG-CD-NE	5.66	124.46	112.00
3	R6	37	ARG	CG-CD-NE	5.66	124.45	112.00
3	Z6	154	SER	N-CA-C	5.66	117.45	111.28
3	I6	37	ARG	CG-CD-NE	5.65	124.44	112.00
3	T6	37	ARG	CG-CD-NE	5.65	124.44	112.00
3	X6	37	ARG	CG-CD-NE	5.65	124.43	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I2	37	ARG	CG-CD-NE	5.65	124.42	112.00
3	X2	37	ARG	CG-CD-NE	5.65	124.42	112.00
3	G2	37	ARG	CG-CD-NE	5.64	124.42	112.00
3	C2	37	ARG	CG-CD-NE	5.64	124.41	112.00
3	R2	37	ARG	CG-CD-NE	5.64	124.41	112.00
3	E6	37	ARG	CG-CD-NE	5.64	124.41	112.00
2	U4	57	GLN	CA-CB-CG	5.64	125.38	114.10
3	G6	37	ARG	CG-CD-NE	5.64	124.41	112.00
3	T2	37	ARG	CG-CD-NE	5.64	124.40	112.00
3	Z2	41	VAL	N-CA-C	-5.63	104.87	110.62
3	E2	37	ARG	CG-CD-NE	5.63	124.39	112.00
3	Z6	41	VAL	N-CA-C	-5.63	104.88	110.62
3	V2	37	ARG	CG-CD-NE	5.63	124.38	112.00
3	Z2	154	SER	N-CA-C	5.63	117.42	111.28
3	C6	37	ARG	CG-CD-NE	5.63	124.38	112.00
3	C2	35	THR	CA-CB-CG2	5.63	120.07	110.50
3	M2	37	ARG	CG-CD-NE	5.63	124.38	112.00
3	Z2	37	ARG	CG-CD-NE	5.62	124.37	112.00
3	C6	35	THR	CA-CB-CG2	5.62	120.06	110.50
3	V6	37	ARG	CG-CD-NE	5.62	124.36	112.00
3	Z6	35	THR	CA-CB-CG2	5.62	120.05	110.50
3	Z6	37	ARG	CG-CD-NE	5.62	124.36	112.00
3	X2	35	THR	CA-CB-CG2	5.62	120.05	110.50
2	U8	57	GLN	CA-CB-CG	5.62	125.33	114.10
2	L4	152	ASN	N-CA-C	-5.61	105.16	111.28
3	K6	35	THR	CA-CB-CG2	5.61	120.04	110.50
3	R6	35	THR	CA-CB-CG2	5.61	120.04	110.50
2	Y4	57	GLN	CA-CB-CG	5.61	125.32	114.10
3	M6	37	ARG	CG-CD-NE	5.61	124.34	112.00
3	P6	35	THR	CA-CB-CG2	5.61	120.03	110.50
2	L8	152	ASN	N-CA-C	-5.61	105.17	111.28
3	K2	35	THR	CA-CB-CG2	5.60	120.03	110.50
3	P2	35	THR	CA-CB-CG2	5.60	120.03	110.50
3	V2	35	THR	CA-CB-CG2	5.60	120.03	110.50
2	Y8	57	GLN	CA-CB-CG	5.60	125.30	114.10
3	R2	35	THR	CA-CB-CG2	5.60	120.02	110.50
2	Q4	57	GLN	CA-CB-CG	5.60	125.30	114.10
2	L8	57	GLN	CA-CB-CG	5.60	125.30	114.10
3	T2	35	THR	CA-CB-CG2	5.60	120.02	110.50
3	V6	35	THR	CA-CB-CG2	5.60	120.01	110.50
2	L4	57	GLN	CA-CB-CG	5.59	125.29	114.10
3	Z2	35	THR	CA-CB-CG2	5.59	120.01	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	E2	35	THR	CA-CB-CG2	5.59	120.01	110.50
3	X6	35	THR	CA-CB-CG2	5.59	120.00	110.50
2	Q8	57	GLN	CA-CB-CG	5.59	125.28	114.10
2	J8	57	GLN	CA-CB-CG	5.58	125.27	114.10
3	M2	35	THR	CA-CB-CG2	5.58	119.99	110.50
2	B4	57	GLN	CA-CB-CG	5.58	125.27	114.10
2	B8	57	GLN	CA-CB-CG	5.58	125.27	114.10
3	E6	35	THR	CA-CB-CG2	5.58	119.99	110.50
3	I6	35	THR	CA-CB-CG2	5.58	119.99	110.50
3	T6	35	THR	CA-CB-CG2	5.58	119.99	110.50
3	I2	35	THR	CA-CB-CG2	5.58	119.99	110.50
2	O4	57	GLN	CA-CB-CG	5.58	125.26	114.10
2	O8	57	GLN	CA-CB-CG	5.58	125.26	114.10
2	F8	57	GLN	CA-CB-CG	5.58	125.25	114.10
2	H8	57	GLN	CA-CB-CG	5.58	125.26	114.10
2	H4	57	GLN	CA-CB-CG	5.58	125.25	114.10
3	G2	35	THR	CA-CB-CG2	5.58	119.98	110.50
2	D4	57	GLN	CA-CB-CG	5.57	125.25	114.10
2	S4	57	GLN	CA-CB-CG	5.57	125.25	114.10
3	M6	35	THR	CA-CB-CG2	5.57	119.98	110.50
2	W8	57	GLN	CA-CB-CG	5.57	125.25	114.10
2	F4	57	GLN	CA-CB-CG	5.57	125.24	114.10
3	K4	143	MET	N-CA-C	5.57	117.03	111.07
2	S8	57	GLN	CA-CB-CG	5.57	125.24	114.10
2	J4	57	GLN	CA-CB-CG	5.57	125.24	114.10
2	D8	57	GLN	CA-CB-CG	5.57	125.24	114.10
4	N8	3	VAL	N-CA-C	5.57	120.92	109.34
4	N4	3	VAL	N-CA-C	5.57	120.92	109.34
3	G6	35	THR	CA-CB-CG2	5.56	119.95	110.50
3	P6	109	CYS	N-CA-C	5.56	122.65	110.80
2	W4	57	GLN	CA-CB-CG	5.56	125.21	114.10
1	A1	2	THR	CA-C-N	-5.55	118.60	122.59
1	A1	2	THR	C-N-CA	-5.55	118.60	122.59
3	P2	109	CYS	N-CA-C	5.55	122.61	110.80
3	K8	143	MET	N-CA-C	5.54	116.99	111.07
3	R2	41	VAL	N-CA-C	-5.53	104.98	110.62
1	A8	37	ILE	N-CA-CB	-5.52	102.13	111.23
1	A5	2	THR	CA-C-N	-5.51	118.62	122.59
1	A5	2	THR	C-N-CA	-5.51	118.62	122.59
3	R6	41	VAL	N-CA-C	-5.50	105.01	110.62
1	A4	37	ILE	N-CA-CB	-5.50	102.16	111.23
3	G6	38	SER	N-CA-C	5.49	117.26	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	G2	38	SER	N-CA-C	5.47	117.25	111.28
3	X2	109	CYS	N-CA-C	5.46	122.44	110.80
3	V2	40	ALA	N-CA-C	-5.46	105.33	111.28
3	V6	40	ALA	N-CA-C	-5.46	105.33	111.28
3	X6	109	CYS	N-CA-C	5.46	122.42	110.80
3	K8	155	SER	CA-C-N	5.45	128.03	120.29
3	K8	155	SER	C-N-CA	5.45	128.03	120.29
3	K4	155	SER	CA-C-N	5.43	128.00	120.29
3	K4	155	SER	C-N-CA	5.43	128.00	120.29
3	M6	37	ARG	CA-C-N	5.42	127.55	120.28
3	M6	37	ARG	C-N-CA	5.42	127.55	120.28
3	M2	37	ARG	CA-C-N	5.42	127.55	120.28
3	M2	37	ARG	C-N-CA	5.42	127.55	120.28
4	N1	226	LEU	CA-C-N	-5.40	115.17	122.63
4	N1	226	LEU	C-N-CA	-5.40	115.17	122.63
4	N5	226	LEU	CA-C-N	-5.40	115.18	122.63
4	N5	226	LEU	C-N-CA	-5.40	115.18	122.63
4	N4	2	PRO	CA-CB-CG	-5.39	94.26	104.50
3	K6	36	LYS	N-CA-C	-5.39	105.41	111.28
4	N8	2	PRO	CA-CB-CG	-5.39	94.26	104.50
3	K2	36	LYS	N-CA-C	-5.38	105.41	111.28
3	I4	144	ASP	CA-C-N	5.34	127.50	121.04
3	I4	144	ASP	C-N-CA	5.34	127.50	121.04
3	I6	109	CYS	N-CA-C	5.33	122.16	110.80
3	I2	109	CYS	N-CA-C	5.33	122.14	110.80
3	G6	154	SER	N-CA-C	5.31	117.07	111.28
3	I8	144	ASP	CA-C-N	5.28	127.43	121.04
3	I8	144	ASP	C-N-CA	5.28	127.43	121.04
3	E8	157	GLN	N-CA-C	-5.27	105.54	111.28
3	G8	157	GLN	N-CA-C	-5.26	105.55	111.28
3	G4	157	GLN	N-CA-C	-5.25	105.55	111.28
2	F4	144	GLY	N-CA-C	5.25	120.78	111.02
2	F8	144	GLY	N-CA-C	5.23	120.75	111.02
3	E4	156	LEU	N-CA-C	5.22	116.78	111.14
1	A1	209	VAL	C-N-CD	-5.22	103.61	125.00
2	Q8	149	GLU	N-CA-C	5.21	116.77	111.14
1	A1	45	LEU	CB-CG-CD2	-5.21	95.06	110.70
1	A5	45	LEU	CB-CG-CD2	-5.21	95.07	110.70
2	Q4	149	GLU	N-CA-C	5.21	116.76	111.14
1	A5	181	TYR	CA-CB-CG	5.20	123.25	113.90
3	E8	156	LEU	N-CA-C	5.19	116.74	111.14
1	A1	181	TYR	CA-CB-CG	5.18	123.22	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	a8	252	PRO	N-CA-C	5.17	123.13	112.47
4	a4	252	PRO	N-CA-C	5.17	123.11	112.47
3	P4	141	ILE	N-CA-C	-5.17	105.67	110.53
10	m3	67	THR	CB-CA-C	5.16	120.27	110.51
10	V3	67	THR	CB-CA-C	5.16	120.25	110.51
3	P8	141	ILE	N-CA-C	-5.14	105.69	110.53
4	N2	218	ASP	CB-CA-C	-5.13	103.06	110.96
4	N6	218	ASP	CB-CA-C	-5.13	103.06	110.96
3	V6	145	PRO	N-CA-C	5.09	122.95	112.47
3	I6	38	SER	N-CA-C	5.08	116.82	111.28
3	V2	145	PRO	N-CA-C	5.07	122.92	112.47
7	q3	25	ARG	N-CA-C	-5.07	105.66	111.14
3	I2	38	SER	N-CA-C	5.07	116.80	111.28
3	Z8	156	LEU	N-CA-C	5.07	116.88	111.36
3	Z4	156	LEU	N-CA-C	5.06	116.88	111.36
3	E4	157	GLN	N-CA-C	-5.03	105.88	111.36
4	N5	114	ILE	N-CA-CB	5.01	116.98	110.57
4	N1	114	ILE	N-CA-CB	5.00	116.97	110.57
7	w3	25	ARG	N-CA-C	-5.00	105.73	111.14
1	A5	176	ILE	CA-CB-CG2	-5.00	101.99	110.50

There are no chirality outliers.

All (32) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
5	03	852	THR	Peptide
5	13	229	THR	Peptide
5	13	852	THR	Peptide
1	A1	24	GLY	Peptide
1	A2	54	PHE	Peptide
1	A4	36	VAL	Peptide
1	A5	24	GLY	Peptide
1	A6	54	PHE	Peptide
1	A8	36	VAL	Peptide
3	C2	109	CYS	Peptide
3	C6	109	CYS	Peptide
3	E2	109	CYS	Peptide
3	E6	109	CYS	Peptide
3	G2	109	CYS	Peptide
3	G6	109	CYS	Peptide
3	K2	109	CYS	Peptide
3	K6	109	CYS	Peptide

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Mol	Chain	Res	Type	Group
4	N1	225	SER	Peptide
4	N5	225	SER	Peptide
6	N7	12	SER	Peptide
3	R2	109	CYS	Peptide
3	R6	109	CYS	Peptide
3	T2	109	CYS	Peptide
3	T6	109	CYS	Peptide
3	V2	109	CYS	Peptide
3	V6	109	CYS	Peptide
2	W1	1	MET	Peptide
2	W5	1	MET	Peptide
3	Z2	109	CYS	Peptide
3	Z6	109	CYS	Peptide
4	a4	247	SER	Peptide
4	a8	247	SER	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	1841	0	1782	114	0
1	A2	1865	0	1813	112	0
1	A4	1841	0	1782	209	0
1	A5	1841	0	1782	218	0
1	A6	1865	0	1813	177	0
1	A8	1841	0	1782	160	0
2	B1	1240	0	1207	75	0
2	B2	1240	0	1207	65	0
2	B4	1240	0	1207	159	0
2	B5	1240	0	1207	74	0
2	B6	1240	0	1207	56	0
2	B8	1240	0	1207	152	0
2	D1	1240	0	1206	77	0
2	D2	1240	0	1207	50	0
2	D4	1240	0	1207	143	0
2	D5	1240	0	1206	76	0
2	D6	1240	0	1207	48	0
2	D8	1240	0	1207	135	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	F1	1240	0	1207	80	0
2	F2	1240	0	1207	49	0
2	F4	1240	0	1207	147	0
2	F5	1240	0	1207	82	0
2	F6	1240	0	1207	47	0
2	F8	1240	0	1205	120	0
2	H1	1240	0	1207	71	0
2	H2	1240	0	1207	47	0
2	H4	1240	0	1207	95	0
2	H5	1240	0	1207	70	0
2	H6	1240	0	1207	43	0
2	H8	1240	0	1207	100	0
2	J1	1240	0	1207	121	0
2	J2	1240	0	1207	50	0
2	J4	1240	0	1206	152	0
2	J5	1240	0	1207	134	0
2	J6	1240	0	1207	51	0
2	J8	1240	0	1207	153	0
2	L1	1240	0	1207	74	0
2	L2	1240	0	1207	41	0
2	L4	1240	0	1204	133	0
2	L5	1240	0	1207	76	0
2	L6	1240	0	1207	40	0
2	L8	1240	0	1204	134	0
2	O1	1232	0	1195	69	0
2	O2	1240	0	1207	37	0
2	O4	1240	0	1207	123	0
2	O5	1232	0	1195	71	0
2	O6	1240	0	1207	36	0
2	O8	1240	0	1207	122	0
2	Q1	1240	0	1207	76	0
2	Q2	1240	0	1206	46	0
2	Q4	1240	0	1207	124	0
2	Q5	1240	0	1207	78	0
2	Q6	1240	0	1207	55	0
2	Q8	1240	0	1207	124	0
2	S1	1240	0	1207	76	0
2	S2	1240	0	1207	39	0
2	S4	1240	0	1207	147	0
2	S5	1240	0	1207	74	0
2	S6	1240	0	1207	42	0
2	S8	1240	0	1207	149	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	U1	1240	0	1206	74	0
2	U2	1240	0	1207	39	0
2	U4	1240	0	1207	151	0
2	U5	1240	0	1206	71	0
2	U6	1240	0	1207	38	0
2	U8	1240	0	1207	150	0
2	W1	1240	0	1207	67	0
2	W2	1240	0	1207	46	0
2	W4	1240	0	1207	130	0
2	W5	1240	0	1207	66	0
2	W6	1240	0	1207	49	0
2	W8	1240	0	1207	132	0
2	Y1	1240	0	1207	66	0
2	Y2	1240	0	1207	41	0
2	Y4	1240	0	1207	146	0
2	Y5	1240	0	1207	67	0
2	Y6	1240	0	1207	42	0
2	Y8	1240	0	1207	152	0
3	C1	1281	0	1288	66	0
3	C2	1281	0	1286	58	0
3	C4	1281	0	1286	160	0
3	C5	1281	0	1288	66	0
3	C6	1281	0	1286	70	0
3	C8	1281	0	1286	157	0
3	E1	1281	0	1288	66	0
3	E2	1281	0	1287	49	0
3	E4	1281	0	1287	109	0
3	E5	1281	0	1288	66	0
3	E6	1281	0	1287	47	0
3	E8	1281	0	1287	100	0
3	G1	1281	0	1288	65	0
3	G2	1281	0	1287	61	0
3	G4	1281	0	1287	106	0
3	G5	1281	0	1288	66	0
3	G6	1281	0	1287	53	0
3	G8	1281	0	1287	106	0
3	I1	1281	0	1288	64	0
3	I2	1281	0	1287	70	0
3	I4	1281	0	1286	106	0
3	I5	1281	0	1288	64	0
3	I6	1281	0	1287	70	0
3	I8	1281	0	1286	106	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	K1	1281	0	1288	80	0
3	K2	1281	0	1286	87	0
3	K4	1281	0	1288	154	0
3	K5	1281	0	1288	81	0
3	K6	1281	0	1287	89	0
3	K8	1281	0	1288	153	0
3	M1	1281	0	1288	67	0
3	M2	1281	0	1285	66	0
3	M4	1281	0	1288	92	0
3	M5	1281	0	1288	68	0
3	M6	1281	0	1287	64	0
3	M8	1281	0	1288	91	0
3	P1	1281	0	1288	61	0
3	P2	1281	0	1285	82	0
3	P4	1281	0	1287	96	0
3	P5	1281	0	1288	64	0
3	P6	1281	0	1287	86	0
3	P8	1281	0	1287	93	0
3	R1	1281	0	1288	67	0
3	R2	1281	0	1287	67	0
3	R4	1281	0	1288	90	0
3	R5	1281	0	1288	65	0
3	R6	1281	0	1287	77	0
3	R8	1281	0	1288	91	0
3	T1	1281	0	1288	63	0
3	T2	1281	0	1286	82	0
3	T4	1281	0	1287	137	0
3	T5	1281	0	1288	63	0
3	T6	1281	0	1287	74	0
3	T8	1281	0	1287	136	0
3	V1	1281	0	1288	66	0
3	V2	1281	0	1286	71	0
3	V4	1281	0	1288	129	0
3	V5	1281	0	1288	65	0
3	V6	1281	0	1286	72	0
3	V8	1281	0	1288	128	0
3	X1	1281	0	1287	65	0
3	X2	1281	0	1286	76	0
3	X4	1281	0	1288	108	0
3	X5	1281	0	1287	66	0
3	X6	1281	0	1287	79	0
3	X8	1281	0	1288	103	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	Z1	1281	0	1288	59	0
3	Z2	1281	0	1287	59	0
3	Z4	1281	0	1288	98	0
3	Z5	1281	0	1288	56	0
3	Z6	1281	0	1287	59	0
3	Z8	1281	0	1288	101	0
4	N1	2270	0	2201	71	0
4	N2	2270	0	2203	62	0
4	N4	2270	0	2204	66	0
4	N5	2270	0	2201	72	0
4	N6	2270	0	2203	58	0
4	N8	2270	0	2204	66	0
4	a1	487	0	509	7	0
4	a2	487	0	509	6	0
4	a4	469	0	490	5	0
4	a5	487	0	509	7	0
4	a6	487	0	509	5	0
4	a8	469	0	490	5	0
5	03	6594	0	6594	315	0
5	13	6594	0	6595	281	0
6	23	529	0	553	17	0
6	33	529	0	553	21	0
6	G7	529	0	553	45	0
6	N7	537	0	565	25	0
6	U7	529	0	553	52	0
6	b7	529	0	553	61	0
7	A7	1199	0	1194	90	0
7	C7	1199	0	1194	103	0
7	E7	1199	0	1194	41	0
7	G3	1199	0	1194	28	0
7	H7	1199	0	1194	78	0
7	I3	1199	0	1194	123	0
7	J7	1199	0	1194	89	0
7	K3	1199	0	1194	59	0
7	L7	1199	0	1194	52	0
7	N3	1199	0	1194	66	0
7	O7	1199	0	1194	89	0
7	P3	1199	0	1194	25	0
7	Q7	1199	0	1194	86	0
7	R3	1199	0	1194	23	0
7	S7	1199	0	1194	44	0
7	T3	1199	0	1194	31	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	V7	1199	0	1192	79	0
7	X3	1199	0	1194	99	0
7	X7	1199	0	1194	69	0
7	Z3	1199	0	1194	82	0
7	Z7	1199	0	1194	41	0
7	b3	1199	0	1194	25	0
7	d3	1199	0	1194	138	0
7	f3	1199	0	1194	30	0
7	i3	1199	0	1194	25	0
7	k3	1199	0	1194	27	0
7	o3	1199	0	1192	169	0
7	q3	1199	0	1191	125	0
7	s3	1199	0	1194	29	0
7	u3	1199	0	1194	147	0
7	w3	1199	0	1193	126	0
7	y3	1199	0	1194	31	0
8	B7	1205	0	1210	48	0
8	D7	1205	0	1210	40	0
8	F7	1205	0	1210	48	0
8	H3	1205	0	1210	40	0
8	I7	1205	0	1210	60	0
8	J3	1205	0	1210	34	0
8	K7	1205	0	1210	48	0
8	L3	1205	0	1210	30	0
8	M3	1205	0	1210	37	0
8	M7	1205	0	1210	38	0
8	O3	1205	0	1210	33	0
8	P7	1205	0	1210	43	0
8	R7	1205	0	1210	39	0
8	S3	1205	0	1210	23	0
8	T7	1205	0	1210	43	0
8	U3	1205	0	1210	33	0
8	W3	1205	0	1210	27	0
8	W7	1205	0	1210	42	0
8	Y3	1205	0	1210	36	0
8	Y7	1205	0	1210	37	0
8	a3	1205	0	1210	36	0
8	a7	1205	0	1210	39	0
8	c3	1205	0	1210	49	0
8	e3	1205	0	1210	32	0
8	h3	1205	0	1210	32	0
8	j3	1205	0	1210	23	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	l3	1205	0	1210	24	0
8	n3	1205	0	1210	33	0
8	p3	1205	0	1210	34	0
8	r3	1205	0	1210	35	0
8	t3	1205	0	1210	60	0
8	v3	1205	0	1210	35	0
8	x3	1205	0	1210	39	0
8	z3	1205	0	1210	47	0
9	Q3	1314	0	1293	21	0
9	g3	1314	0	1293	22	0
10	V3	1235	0	1241	28	0
10	m3	1235	0	1241	25	0
11	03	86	0	76	14	0
11	13	172	0	152	47	0
11	A1	86	0	74	37	0
11	A2	43	0	36	12	0
11	A4	43	0	36	21	0
11	A5	86	0	74	37	0
11	A6	43	0	36	13	0
11	A7	43	0	38	18	0
11	A8	43	0	36	21	0
11	B1	43	0	39	49	0
11	B2	43	0	38	25	0
11	B5	43	0	39	47	0
11	B6	43	0	38	28	0
11	B7	43	0	38	29	0
11	C1	86	0	77	79	0
11	C2	86	0	74	56	0
11	C4	43	0	36	41	0
11	C5	86	0	77	78	0
11	C6	129	0	112	95	0
11	C7	43	0	38	15	0
11	C8	43	0	35	40	0
11	D1	43	0	37	29	0
11	D2	43	0	38	26	0
11	D4	43	0	39	26	0
11	D5	43	0	37	29	0
11	D7	43	0	38	20	0
11	D8	43	0	39	26	0
11	E2	129	0	112	76	0
11	E4	129	0	115	94	0
11	E6	86	0	74	46	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	E7	43	0	38	14	0
11	E8	129	0	115	90	0
11	F1	43	0	39	47	0
11	F4	43	0	35	54	0
11	F5	43	0	39	47	0
11	F6	43	0	38	25	0
11	F7	43	0	38	23	0
11	F8	43	0	35	46	0
11	G1	86	0	76	52	0
11	G2	43	0	38	31	0
11	G3	43	0	38	10	0
11	G4	86	0	77	45	0
11	G5	86	0	76	54	0
11	G6	43	0	38	31	0
11	G8	86	0	77	46	0
11	H1	43	0	39	47	0
11	H2	43	0	38	25	0
11	H3	43	0	38	12	0
11	H5	43	0	39	46	0
11	H6	43	0	38	25	0
11	H7	43	0	38	16	0
11	I1	86	0	76	53	0
11	I2	129	0	112	72	0
11	I3	43	0	38	10	0
11	I4	129	0	114	79	0
11	I5	86	0	76	49	0
11	I6	86	0	74	42	0
11	I7	43	0	38	28	0
11	I8	129	0	114	80	0
11	J1	43	0	39	44	0
11	J3	43	0	38	11	0
11	J5	43	0	39	46	0
11	J6	43	0	38	30	0
11	J7	43	0	38	16	0
11	K1	86	0	76	43	0
11	K2	129	0	112	94	0
11	K3	43	0	38	10	0
11	K4	86	0	76	61	0
11	K5	86	0	76	47	0
11	K6	86	0	74	63	0
11	K7	43	0	38	19	0
11	K8	86	0	76	61	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	L1	43	0	39	47	0
11	L4	86	0	77	60	0
11	L5	43	0	39	48	0
11	L6	43	0	38	31	0
11	L7	43	0	38	15	0
11	L8	86	0	77	58	0
11	M1	86	0	76	49	0
11	M2	86	0	74	44	0
11	M3	43	0	38	14	0
11	M4	86	0	77	46	0
11	M5	86	0	76	46	0
11	M6	86	0	74	44	0
11	M7	43	0	38	19	0
11	M8	86	0	77	47	0
11	N1	43	0	36	18	0
11	N2	86	0	68	26	0
11	N3	43	0	38	11	0
11	N4	43	0	38	21	0
11	N5	43	0	36	18	0
11	N6	86	0	68	24	0
11	N8	43	0	38	21	0
11	O1	43	0	39	44	0
11	O3	43	0	38	11	0
11	O4	43	0	39	29	0
11	O5	43	0	39	47	0
11	O6	43	0	38	25	0
11	O7	43	0	38	17	0
11	O8	43	0	39	28	0
11	P1	86	0	76	50	0
11	P2	86	0	74	58	0
11	P3	43	0	38	11	0
11	P4	129	0	115	90	0
11	P5	86	0	76	48	0
11	P6	86	0	74	48	0
11	P7	43	0	38	20	0
11	P8	129	0	115	87	0
11	Q1	43	0	39	42	0
11	Q2	43	0	38	26	0
11	Q3	43	0	35	0	0
11	Q5	43	0	39	43	0
11	Q6	43	0	38	26	0
11	Q7	43	0	38	14	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	R1	86	0	76	49	0
11	R2	43	0	38	36	0
11	R3	43	0	38	12	0
11	R4	43	0	38	35	0
11	R5	86	0	76	48	0
11	R6	86	0	76	66	0
11	R7	43	0	38	18	0
11	R8	43	0	38	35	0
11	S1	43	0	39	46	0
11	S2	43	0	38	24	0
11	S3	43	0	38	11	0
11	S4	43	0	39	26	0
11	S5	43	0	39	46	0
11	S7	43	0	38	15	0
11	S8	43	0	39	26	0
11	T1	43	0	38	31	0
11	T2	86	0	76	68	0
11	T3	43	0	38	10	0
11	T4	86	0	75	56	0
11	T5	43	0	38	31	0
11	T6	43	0	38	39	0
11	T7	43	0	38	19	0
11	T8	86	0	75	55	0
11	U1	86	0	76	73	0
11	U3	43	0	38	10	0
11	U4	43	0	39	29	0
11	U5	86	0	76	71	0
11	U6	43	0	38	33	0
11	U8	43	0	39	29	0
11	V1	86	0	77	66	0
11	V2	86	0	74	41	0
11	V3	43	0	38	8	0
11	V4	86	0	74	72	0
11	V5	86	0	77	67	0
11	V6	86	0	74	41	0
11	V7	43	0	38	17	0
11	V8	86	0	74	71	0
11	W2	43	0	38	26	0
11	W3	43	0	38	12	0
11	W4	43	0	39	31	0
11	W6	43	0	38	27	0
11	W7	43	0	38	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	W8	43	0	39	30	0
11	X1	129	0	114	92	0
11	X2	129	0	112	91	0
11	X3	43	0	38	10	0
11	X4	86	0	76	55	0
11	X5	129	0	114	94	0
11	X6	86	0	74	65	0
11	X7	43	0	38	18	0
11	X8	86	0	76	55	0
11	Y4	43	0	39	27	0
11	Y6	43	0	38	25	0
11	Y7	43	0	38	20	0
11	Y8	43	0	39	27	0
11	Z1	86	0	76	42	0
11	Z2	129	0	112	76	0
11	Z3	43	0	38	10	0
11	Z4	86	0	76	51	0
11	Z5	86	0	76	40	0
11	Z6	86	0	74	45	0
11	Z7	43	0	38	14	0
11	Z8	86	0	76	53	0
11	a7	43	0	38	20	0
11	b3	43	0	38	10	0
11	c3	43	0	38	10	0
11	d3	43	0	38	13	0
11	e3	43	0	38	9	0
11	f3	43	0	38	11	0
11	g3	43	0	35	0	0
11	i3	43	0	38	11	0
11	j3	43	0	38	10	0
11	k3	43	0	38	11	0
11	l3	43	0	38	9	0
11	m3	43	0	38	6	0
11	n3	43	0	38	12	0
11	o3	43	0	36	6	0
11	p3	43	0	38	10	0
11	q3	43	0	38	10	0
11	r3	43	0	38	12	0
11	s3	43	0	38	13	0
11	t3	43	0	38	13	0
11	u3	43	0	38	11	0
11	v3	43	0	38	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	w3	43	0	38	10	0
11	x3	43	0	38	10	0
11	y3	43	0	38	12	0
11	z3	43	0	38	12	0
All	All	322286	0	318353	16111	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 (16111) 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)
8:t3:62:TYR:CE1	1:A4:203:PHE:HB2	1.21	1.71
2:U8:149:GLU:HG3	2:U8:153:TYR:CE2	1.25	1.71
11:C5:202:CYC:HAC2	2:D5:84:CYS:SG	1.33	1.69
2:U5:84:CYS:SG	11:U5:201:CYC:HAC2	1.33	1.69
2:H1:84:CYS:SG	11:H1:201:CYC:HAC2	1.33	1.68
2:B1:84:CYS:SG	11:B1:201:CYC:HAC2	1.33	1.68
2:S1:84:CYS:SG	11:S1:201:CYC:HAC2	1.33	1.68
2:Q5:84:CYS:SG	11:Q5:201:CYC:HAC2	1.33	1.67
2:F1:84:CYS:SG	11:F1:201:CYC:HAC2	1.33	1.66
2:U1:84:CYS:SG	11:U1:201:CYC:HAC2	1.33	1.66
2:O5:84:CYS:SG	11:O5:201:CYC:HAC2	1.33	1.66
2:H5:84:CYS:SG	11:H5:201:CYC:HAC2	1.33	1.66
11:X5:203:CYC:HAC2	2:Y5:84:CYS:SG	1.33	1.66
8:z3:62:TYR:CE1	1:A8:203:PHE:HB2	1.20	1.65
2:U4:149:GLU:HG3	2:U4:153:TYR:CE2	1.25	1.65
2:Q1:84:CYS:SG	11:Q1:201:CYC:HAC2	1.33	1.65
2:L5:84:CYS:SG	11:L5:201:CYC:HAC2	1.33	1.65
11:V5:202:CYC:HAC2	2:W5:84:CYS:SG	1.33	1.64
3:X6:151:GLY:CA	11:X6:202:CYC:HMD1	1.20	1.64
2:J5:84:CYS:SG	11:J5:201:CYC:HAC2	1.33	1.64
2:L1:84:CYS:SG	11:L1:201:CYC:HAC2	1.33	1.64
11:X1:203:CYC:HAC2	2:Y1:84:CYS:SG	1.33	1.64
2:S5:84:CYS:SG	11:S5:201:CYC:HAC2	1.33	1.64
11:C1:202:CYC:HAC2	2:D1:84:CYS:SG	1.33	1.63
2:J1:84:CYS:SG	11:J1:201:CYC:HAC2	1.33	1.63
2:O1:84:CYS:SG	11:O1:201:CYC:HAC2	1.33	1.63
3:P2:151:GLY:HA3	11:P2:202:CYC:CMD	1.28	1.63
2:F5:84:CYS:SG	11:F5:201:CYC:HAC2	1.33	1.62
8:J3:81:CYS:SG	11:J3:201:CYC:HAC2	1.38	1.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V4:151:GLY:HA3	11:V4:202:CYC:CMD	1.14	1.62
2:B5:84:CYS:SG	11:B5:201:CYC:HAC2	1.33	1.62
11:V1:202:CYC:HAC2	2:W1:84:CYS:SG	1.33	1.61
11:13:902:CYC:HAC2	8:Y3:81:CYS:SG	1.34	1.61
5:03:719:THR:CA	6:U7:23:GLN:HE22	1.15	1.60
7:q3:51:ILE:HG21	1:A8:218:PHE:CE1	1.33	1.60
3:V8:151:GLY:HA3	11:V8:202:CYC:CMD	1.14	1.59
7:o3:68:PRO:CB	1:A4:196:TRP:CD1	1.86	1.58
3:V6:148:VAL:HG11	11:V6:202:CYC:CHD	1.33	1.58
3:M2:151:GLY:HA3	11:M2:202:CYC:CMD	1.23	1.58
3:P6:151:GLY:HA3	11:P6:202:CYC:CMD	1.28	1.57
3:E4:153:CYS:SG	11:E4:202:CYC:H2C	1.44	1.57
3:E8:153:CYS:SG	11:E8:202:CYC:H2C	1.44	1.57
3:G6:151:GLY:HA3	11:G6:201:CYC:CMD	1.34	1.57
7:w3:82:LEU:HD13	1:A4:221:MET:CE	1.22	1.56
3:X2:151:GLY:CA	11:X2:202:CYC:HMD1	1.20	1.56
7:o3:68:PRO:HB3	1:A4:196:TRP:CD1	1.05	1.56
3:M6:151:GLY:HA3	11:M6:202:CYC:CMD	1.23	1.56
2:S2:84:CYS:CB	11:S2:201:CYC:HAC1	1.36	1.56
2:W2:84:CYS:CB	11:W2:201:CYC:HAC1	1.36	1.55
2:O6:84:CYS:CB	11:O6:201:CYC:HAC1	1.36	1.55
3:G2:151:GLY:HA3	11:G2:201:CYC:CMD	1.34	1.55
2:B2:84:CYS:CB	11:B2:201:CYC:HAC1	1.36	1.55
11:I2:203:CYC:HAC1	2:J2:84:CYS:CB	1.36	1.55
7:w3:82:LEU:CD1	1:A4:221:MET:HE2	1.28	1.55
3:V6:148:VAL:HG11	11:V6:202:CYC:C4C	1.35	1.55
3:R6:151:GLY:HA3	11:R6:201:CYC:CMD	1.37	1.55
2:D2:84:CYS:CB	11:D2:201:CYC:HAC1	1.36	1.54
3:V2:148:VAL:HG11	11:V2:202:CYC:CHD	1.33	1.54
2:Y4:149:GLU:HG2	2:Y4:153:TYR:CE2	1.38	1.54
2:U2:84:CYS:CB	11:Z2:201:CYC:HAC1	1.36	1.54
2:W6:84:CYS:CB	11:W6:201:CYC:HAC1	1.36	1.54
3:T2:151:GLY:HA3	11:T2:202:CYC:CMD	1.08	1.54
8:t3:62:TYR:CE1	1:A4:203:PHE:CB	1.84	1.54
2:Q6:84:CYS:CB	11:Q6:201:CYC:HAC1	1.36	1.53
3:X2:151:GLY:HA3	11:X2:202:CYC:CMD	1.37	1.53
2:F6:84:CYS:CB	11:F6:201:CYC:HAC1	1.36	1.53
11:E2:203:CYC:HAC1	2:F2:84:CYS:CB	1.36	1.53
7:o3:79:ALA:CA	1:A5:222:ALA:HB2	1.09	1.53
3:M8:51:ILE:HD11	3:M8:141:ILE:CD1	1.36	1.53
11:K2:203:CYC:HAC1	2:L2:84:CYS:CB	1.36	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X2:203:CYC:HAC1	2:Y2:84:CYS:CB	1.36	1.52
7:o3:79:ALA:HB2	1:A5:222:ALA:CB	1.37	1.52
2:L6:84:CYS:CB	11:L6:201:CYC:HAC1	1.36	1.52
3:T6:151:GLY:CA	11:T6:201:CYC:CMD	1.83	1.52
5:03:512:ASN:HA	6:G7:23:GLN:NE2	1.20	1.52
2:U6:84:CYS:CB	11:U6:201:CYC:HAC1	1.36	1.52
7:u3:76:GLU:HB3	1:A8:203:PHE:CD2	1.41	1.52
7:u3:151:ALA:HB1	7:O7:20:PRO:CB	1.35	1.52
3:M4:51:ILE:HD11	3:M4:141:ILE:CD1	1.36	1.52
3:T6:151:GLY:HA3	11:T6:201:CYC:CMD	1.08	1.52
3:X8:153:CYS:SG	11:X8:202:CYC:HBC2	1.50	1.52
3:V2:148:VAL:HG11	11:V2:202:CYC:C4C	1.35	1.51
2:Q2:84:CYS:CB	11:Q2:201:CYC:HAC1	1.36	1.51
3:T2:151:GLY:CA	11:T2:202:CYC:CMD	1.83	1.51
3:V2:57:ARG:NH1	2:W2:122:PHE:CZ	1.74	1.51
2:Y6:84:CYS:CB	11:Y6:201:CYC:HAC1	1.36	1.51
11:C6:203:CYC:HAC1	2:D6:84:CYS:CB	1.36	1.50
3:X4:153:CYS:SG	11:X4:202:CYC:HBC2	1.50	1.50
3:X6:151:GLY:HA3	11:X6:202:CYC:CMD	1.37	1.50
2:H2:84:CYS:CB	11:H2:201:CYC:HAC1	1.36	1.50
2:U4:150:THR:CG2	2:U4:154:ILE:CD1	1.85	1.50
2:H6:84:CYS:CB	11:H6:201:CYC:HAC1	1.36	1.50
11:R6:202:CYC:HAC1	2:S6:84:CYS:CB	1.36	1.49
2:U8:150:THR:CG2	2:U8:154:ILE:CD1	1.86	1.49
3:R6:57:ARG:NH1	2:S6:122:PHE:CE1	1.79	1.49
1:A1:196:TRP:CE2	7:q3:68:PRO:HG2	1.31	1.49
7:u3:76:GLU:HB3	1:A8:203:PHE:CE2	1.45	1.49
2:B4:27:LEU:HD13	3:C4:38:SER:CB	1.43	1.49
11:A6:301:CYC:CAC	3:G6:82:CYS:SG	2.01	1.49
3:C6:82:CYS:SG	11:C6:201:CYC:CAC	2.01	1.49
3:E6:82:CYS:SG	11:E6:201:CYC:CAC	2.01	1.49
2:U4:149:GLU:CG	2:U4:153:TYR:HE2	1.26	1.49
3:M6:82:CYS:SG	11:M6:201:CYC:CAC	2.01	1.49
11:A2:301:CYC:CAC	3:G2:82:CYS:SG	2.01	1.48
3:Z2:82:CYS:SG	11:Z2:202:CYC:CAC	2.01	1.48
2:F4:24:LEU:CD2	2:F4:28:TYR:HE1	1.23	1.48
3:I6:82:CYS:SG	11:I6:201:CYC:CAC	2.01	1.48
2:J6:84:CYS:CB	11:J6:201:CYC:HAC1	1.36	1.48
2:S8:33:GLN:HG3	2:Y8:25:GLN:NE2	1.28	1.48
3:K2:82:CYS:SG	11:K2:201:CYC:CAC	2.01	1.48
3:V2:82:CYS:SG	11:V2:201:CYC:CAC	2.01	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:84:CYS:CB	11:B6:201:CYC:HAC1	1.36	1.48
3:X6:82:CYS:SG	11:X6:201:CYC:CAC	2.01	1.48
3:R2:151:GLY:HA3	11:R2:201:CYC:CMD	1.37	1.48
3:I2:82:CYS:SG	11:I2:201:CYC:CAC	2.01	1.48
5:13:837:LEU:CD1	6:b7:42:ARG:HD2	1.41	1.48
11:N6:301:CYC:CAC	3:R6:82:CYS:SG	2.01	1.48
3:P6:82:CYS:SG	11:P6:201:CYC:CAC	2.01	1.48
3:M2:82:CYS:SG	11:M2:201:CYC:CAC	2.01	1.47
7:d3:73:TYR:CE1	1:A6:194:VAL:HB	1.47	1.47
8:x3:81:CYS:SG	11:x3:1001:CYC:HAC2	1.55	1.47
11:N2:302:CYC:CAC	3:T2:82:CYS:SG	2.01	1.47
2:O2:84:CYS:CB	11:T2:201:CYC:HAC1	1.36	1.47
3:X2:82:CYS:SG	11:X2:201:CYC:CAC	2.01	1.47
1:A8:194:VAL:HG21	1:A8:196:TRP:CE3	1.50	1.47
3:P2:82:CYS:SG	11:P2:201:CYC:CAC	2.01	1.47
7:Z3:22:GLU:HA	7:L7:25:ARG:NH2	1.25	1.47
8:r3:81:CYS:SG	11:r3:1001:CYC:HAC2	1.55	1.47
11:N6:302:CYC:CAC	3:T6:82:CYS:SG	2.01	1.47
3:Z6:82:CYS:SG	11:Z6:201:CYC:CAC	2.01	1.47
8:l3:81:CYS:SG	11:l3:1001:CYC:HAC2	1.55	1.47
11:N2:301:CYC:CAC	3:R2:82:CYS:SG	2.01	1.46
8:p3:81:CYS:SG	11:p3:1001:CYC:HAC2	1.55	1.46
8:t3:81:CYS:SG	11:t3:1001:CYC:HAC2	1.55	1.46
3:K6:82:CYS:SG	11:K6:201:CYC:CAC	2.01	1.46
3:V6:82:CYS:SG	11:V6:201:CYC:CAC	2.01	1.46
3:C2:82:CYS:SG	11:C2:201:CYC:CAC	2.01	1.46
7:u3:76:GLU:HG2	1:A8:204:ARG:NH2	1.22	1.46
1:A1:209:VAL:CB	1:A1:210:PRO:HD2	1.39	1.46
11:13:904:CYC:HAC2	8:h3:81:CYS:SG	1.55	1.46
8:W3:81:CYS:SG	11:W3:1001:CYC:HAC2	1.55	1.46
2:B8:27:LEU:HD13	3:C8:38:SER:CB	1.43	1.46
11:03:902:CYC:HAC2	8:L3:81:CYS:SG	1.55	1.45
8:j3:81:CYS:SG	11:j3:1001:CYC:HAC2	1.55	1.45
3:P6:33:GLU:CB	3:P6:36:LYS:HE2	1.43	1.45
3:E2:82:CYS:SG	11:E2:201:CYC:CAC	2.01	1.45
7:I3:151:ALA:HB1	7:A7:20:PRO:CB	1.45	1.45
8:U3:81:CYS:SG	11:U3:1001:CYC:HAC2	1.55	1.45
8:z3:81:CYS:SG	11:z3:1001:CYC:HAC2	1.55	1.45
3:C8:153:CYS:SG	11:C8:201:CYC:HAC2	1.55	1.45
8:n3:81:CYS:SG	11:n3:1001:CYC:HAC2	1.55	1.45
8:v3:81:CYS:SG	11:v3:1001:CYC:HAC2	1.55	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I3:117:LYS:HZ3	7:C7:113:ARG:NH1	1.14	1.45
8:M3:81:CYS:SG	11:M3:201:CYC:HAC2	1.55	1.45
8:S3:81:CYS:SG	11:S3:1001:CYC:HAC2	1.55	1.45
3:C4:153:CYS:SG	11:C4:201:CYC:HAC2	1.55	1.45
1:A5:209:VAL:CB	1:A5:210:PRO:HD2	1.43	1.45
8:H3:81:CYS:SG	11:H3:1001:CYC:HAC2	1.55	1.44
8:c3:81:CYS:SG	11:c3:1001:CYC:HAC2	1.55	1.44
8:O3:81:CYS:SG	11:O3:1001:CYC:HAC2	1.55	1.44
1:A5:127:ILE:CG1	1:A5:127:ILE:CD1	1.94	1.44
8:e3:81:CYS:SG	11:e3:1001:CYC:HAC2	1.55	1.44
7:o3:79:ALA:CB	1:A5:222:ALA:CB	1.96	1.44
2:D8:24:LEU:HB2	11:E8:202:CYC:CBB	1.48	1.44
2:O8:21:ASN:HB2	2:W8:152:ASN:ND2	1.33	1.44
2:U8:150:THR:HG22	2:U8:154:ILE:CD1	1.42	1.44
11:13:903:CYC:HAC2	8:a3:81:CYS:SG	1.55	1.44
10:m3:81:CYS:SG	11:m3:201:CYC:HBC2	1.57	1.44
3:V6:148:VAL:CG1	11:V6:202:CYC:CHD	1.95	1.43
2:U8:149:GLU:CG	2:U8:153:TYR:HE2	1.27	1.43
2:U4:150:THR:CG2	2:U4:154:ILE:HD11	1.43	1.43
3:V2:148:VAL:CG1	11:V2:202:CYC:CHD	1.95	1.43
1:A1:127:ILE:CG1	1:A1:127:ILE:CD1	1.94	1.43
2:O4:21:ASN:HB2	2:W4:152:ASN:ND2	1.33	1.42
2:S4:33:GLN:HG3	2:Y4:25:GLN:NE2	1.28	1.42
7:u3:154:ASP:CG	8:P7:46:ALA:HB2	1.41	1.42
10:V3:81:CYS:SG	11:V3:201:CYC:HBC2	1.57	1.42
3:T4:51:ILE:HD11	3:T4:141:ILE:CD1	1.49	1.42
3:V8:151:GLY:CA	11:V8:202:CYC:CMD	1.98	1.41
3:T8:51:ILE:HD11	3:T8:141:ILE:CD1	1.49	1.41
1:A1:201:ARG:HB3	7:q3:77:MET:CE	1.50	1.41
3:K8:153:CYS:SG	11:K8:202:CYC:HBC1	1.59	1.41
3:C8:142:VAL:O	11:C8:201:CYC:CBC	1.68	1.41
2:D4:24:LEU:HB2	11:E4:202:CYC:CBB	1.48	1.40
1:A8:208:ARG:NH2	1:A8:211:GLN:HG2	1.31	1.40
7:I3:113:ARG:CD	7:C7:117:LYS:NZ	1.84	1.40
2:B4:61:SER:HB3	2:J5:141:GLY:CA	1.50	1.40
8:t3:128:GLN:NE2	1:A4:208:ARG:HE	1.17	1.39
3:K4:153:CYS:SG	11:K4:202:CYC:HBC1	1.59	1.39
3:V4:151:GLY:CA	11:V4:202:CYC:CMD	1.98	1.39
5:13:443:TYR:OH	11:13:902:CYC:CBA	1.69	1.39
3:C8:43:ARG:NH2	3:C8:148:VAL:HG11	1.08	1.39
2:S4:149:GLU:HG2	2:S4:153:TYR:CE2	1.56	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F7:81:CYS:SG	11:F7:1001:CYC:CAC	2.11	1.39
8:K7:81:CYS:SG	11:K7:1001:CYC:CAC	2.11	1.39
3:P8:82:CYS:SG	11:P8:201:CYC:HAC1	1.63	1.39
2:S8:149:GLU:HG2	2:S8:153:TYR:CE2	1.56	1.39
7:u3:76:GLU:CG	1:A8:204:ARG:HH22	1.35	1.39
11:A4:301:CYC:HAC1	3:C4:82:CYS:SG	1.63	1.39
2:B4:149:GLU:CG	2:B4:153:TYR:HE2	1.35	1.39
8:a7:81:CYS:SG	11:a7:1001:CYC:CAC	2.11	1.39
2:U8:150:THR:CG2	2:U8:154:ILE:HD11	1.43	1.39
2:J4:64:PRO:CB	2:J5:58:ALA:HA	1.51	1.38
3:V4:82:CYS:SG	11:V4:201:CYC:HAC1	1.63	1.38
3:X4:82:CYS:SG	11:X4:201:CYC:HAC1	1.63	1.38
8:B7:81:CYS:SG	11:B7:1001:CYC:CAC	2.11	1.38
3:T8:82:CYS:SG	11:T8:201:CYC:HAC1	1.63	1.38
3:X8:51:ILE:HD11	3:X8:141:ILE:CD1	1.51	1.38
2:F4:24:LEU:CD2	2:F4:28:TYR:CE1	2.05	1.38
8:P7:81:CYS:SG	11:P7:1001:CYC:CAC	2.11	1.38
3:E8:82:CYS:SG	11:E8:201:CYC:HAC1	1.63	1.38
3:Z8:82:CYS:SG	11:Z8:201:CYC:HAC1	1.63	1.38
1:A1:209:VAL:HB	1:A1:210:PRO:CD	1.51	1.38
7:o3:117:LYS:NZ	7:X7:113:ARG:NH1	1.72	1.38
7:q3:51:ILE:CG2	1:A8:218:PHE:HE1	1.33	1.38
11:F4:201:CYC:HAC2	3:G4:153:CYS:SG	1.63	1.38
3:I4:82:CYS:SG	11:I4:201:CYC:HAC1	1.63	1.38
8:D7:81:CYS:SG	11:D7:1001:CYC:CAC	2.11	1.38
8:Y7:81:CYS:SG	11:Y7:1001:CYC:CAC	2.11	1.38
11:N8:301:CYC:HAC1	3:R8:82:CYS:SG	1.63	1.38
3:P4:82:CYS:SG	11:P4:201:CYC:HAC1	1.63	1.38
11:A8:301:CYC:HAC1	3:C8:82:CYS:SG	1.63	1.38
3:V8:82:CYS:SG	11:V8:201:CYC:HAC1	1.63	1.38
7:u3:76:GLU:CB	1:A8:203:PHE:CE2	2.06	1.38
2:B4:27:LEU:CD1	3:C4:38:SER:CB	2.02	1.38
3:I8:82:CYS:SG	11:I8:201:CYC:HAC1	1.63	1.38
3:M8:82:CYS:SG	11:M8:202:CYC:HAC1	1.63	1.38
3:X4:51:ILE:HD11	3:X4:141:ILE:CD1	1.52	1.37
7:Q7:63:PRO:CD	1:A8:196:TRP:HH2	1.37	1.37
2:J1:138:ALA:HB1	2:B8:64:PRO:CB	1.53	1.37
3:E4:82:CYS:SG	11:E4:201:CYC:HAC1	1.63	1.37
3:G4:82:CYS:SG	11:G4:202:CYC:HAC1	1.63	1.37
3:K5:88:ILE:CD1	4:N5:251:TYR:OH	1.71	1.37
2:B8:27:LEU:CD1	3:C8:38:SER:CB	2.02	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X8:36:LYS:CB	3:X8:156:LEU:HD11	1.54	1.37
2:U4:149:GLU:CG	2:U4:153:TYR:CE2	2.02	1.37
3:X4:36:LYS:CB	3:X4:156:LEU:HD11	1.53	1.37
8:I7:81:CYS:SG	11:I7:1001:CYC:CAC	2.11	1.37
8:R7:81:CYS:SG	11:R7:1001:CYC:CAC	2.11	1.37
8:W7:81:CYS:SG	11:W7:1001:CYC:CAC	2.11	1.37
3:G8:82:CYS:SG	11:G8:202:CYC:HAC1	1.63	1.37
3:K8:82:CYS:SG	11:K8:201:CYC:HAC1	1.63	1.37
3:X8:82:CYS:SG	11:X8:201:CYC:HAC1	1.63	1.37
7:w3:77:MET:CE	1:A5:201:ARG:HB3	0.90	1.37
3:M4:82:CYS:SG	11:M4:202:CYC:HAC1	1.63	1.37
2:B8:27:LEU:CD1	3:C8:38:SER:HB3	1.55	1.37
11:F8:201:CYC:HAC2	3:G8:153:CYS:SG	1.63	1.37
5:03:719:THR:HA	6:U7:23:GLN:NE2	1.10	1.37
3:Z4:82:CYS:SG	11:Z4:201:CYC:HAC1	1.63	1.37
8:T7:81:CYS:SG	11:T7:1001:CYC:CAC	2.11	1.37
3:C8:51:ILE:HD11	3:C8:141:ILE:CD1	1.55	1.37
3:C4:43:ARG:NH2	3:C4:148:VAL:HG11	1.08	1.36
11:N4:301:CYC:HAC1	3:R4:82:CYS:SG	1.63	1.36
8:D7:81:CYS:SG	11:D7:1001:CYC:HAC2	1.65	1.36
8:R7:81:CYS:SG	11:R7:1001:CYC:HAC2	1.66	1.36
2:U4:150:THR:HG22	2:U4:154:ILE:CD1	1.42	1.36
8:M7:81:CYS:SG	11:M7:1001:CYC:CAC	2.11	1.36
2:U8:149:GLU:CG	2:U8:153:TYR:CE2	2.02	1.36
7:q3:3:ILE:CD1	7:q3:25:ARG:NH2	1.89	1.36
3:T4:82:CYS:SG	11:T4:201:CYC:HAC1	1.63	1.36
3:X8:36:LYS:HB3	3:X8:156:LEU:CD1	1.56	1.36
5:03:832:ASN:ND2	6:U7:35:ASN:HD21	1.21	1.36
11:A4:301:CYC:CAC	3:C4:82:CYS:SG	2.14	1.36
3:K4:82:CYS:SG	11:K4:201:CYC:HAC1	1.63	1.36
8:P7:66:THR:HG22	11:Q7:1001:CYC:O1A	1.21	1.36
7:u3:76:GLU:CB	1:A8:203:PHE:CD2	2.08	1.36
3:G4:82:CYS:SG	11:G4:202:CYC:CAC	2.14	1.36
3:I4:82:CYS:SG	11:I4:201:CYC:CAC	2.14	1.36
8:M7:81:CYS:SG	11:M7:1001:CYC:HAC2	1.65	1.36
2:D8:24:LEU:CB	11:E8:202:CYC:CBB	2.04	1.36
3:X8:82:CYS:SG	11:X8:201:CYC:CAC	2.14	1.36
7:o3:79:ALA:CA	1:A5:222:ALA:CB	2.01	1.35
2:B4:149:GLU:HG2	2:B4:153:TYR:CE2	1.60	1.35
2:F4:25:GLN:NE2	2:J4:33:GLN:HG3	1.41	1.35
8:I7:81:CYS:SG	11:I7:1001:CYC:HAC2	1.66	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X3:154:ASP:OD2	8:I7:46:ALA:HB2	1.19	1.35
7:w3:77:MET:HE2	1:A5:201:ARG:CB	0.88	1.35
2:D5:28:TYR:OH	11:D5:201:CYC:NB	1.57	1.35
2:B6:84:CYS:HB2	11:B6:201:CYC:CAC	1.57	1.35
8:T7:81:CYS:SG	11:T7:1001:CYC:HAC2	1.65	1.35
3:C8:40:ALA:CB	3:C8:156:LEU:HD13	1.55	1.35
5:13:489:ASN:ND2	11:13:903:CYC:O2A	1.59	1.35
7:q3:3:ILE:HD12	7:q3:25:ARG:NH2	1.04	1.35
11:N4:301:CYC:CAC	3:R4:82:CYS:SG	2.14	1.35
3:T4:151:GLY:HA3	11:T4:202:CYC:CMD	1.55	1.35
3:Z4:82:CYS:SG	11:Z4:201:CYC:CAC	2.14	1.35
11:C6:203:CYC:CAC	2:D6:84:CYS:HB2	1.57	1.35
2:J6:84:CYS:HB2	11:J6:201:CYC:CAC	1.57	1.35
8:P7:81:CYS:SG	11:P7:1001:CYC:HAC2	1.66	1.35
3:V8:82:CYS:SG	11:V8:201:CYC:CAC	2.14	1.35
7:o3:79:ALA:CB	1:A5:222:ALA:HB2	1.54	1.35
7:u3:76:GLU:CG	1:A8:203:PHE:CE2	2.10	1.35
2:F6:84:CYS:HB2	11:F6:201:CYC:CAC	1.57	1.35
2:H6:84:CYS:HB2	11:H6:201:CYC:CAC	1.57	1.35
3:Z8:82:CYS:SG	11:Z8:201:CYC:CAC	2.14	1.35
3:C4:40:ALA:CB	3:C4:156:LEU:HD13	1.55	1.35
2:F4:24:LEU:HD21	2:F4:28:TYR:CE1	1.60	1.35
3:M4:82:CYS:SG	11:M4:202:CYC:CAC	2.14	1.35
3:T4:82:CYS:SG	11:T4:201:CYC:CAC	2.14	1.35
11:R6:202:CYC:CAC	2:S6:84:CYS:HB2	1.57	1.35
2:U6:84:CYS:HB2	11:U6:201:CYC:CAC	1.57	1.35
2:O2:84:CYS:HB2	11:T2:201:CYC:CAC	1.57	1.34
3:P2:33:GLU:HA	3:P2:36:LYS:CG	1.56	1.34
3:E4:82:CYS:SG	11:E4:201:CYC:CAC	2.14	1.34
3:E8:82:CYS:SG	11:E8:201:CYC:CAC	2.14	1.34
3:P8:82:CYS:SG	11:P8:201:CYC:CAC	2.14	1.34
3:X1:57:ARG:NH1	11:X1:203:CYC:O2D	1.57	1.34
11:E2:203:CYC:CAA	2:F2:122:PHE:HE2	1.40	1.34
7:u3:117:LYS:HE3	7:Q7:113:ARG:NH1	1.42	1.34
2:O4:140:HIS:ND1	2:O4:142:LEU:HG	1.40	1.34
3:P4:82:CYS:SG	11:P4:201:CYC:CAC	2.14	1.34
2:B6:122:PHE:HE2	11:B6:201:CYC:CAA	1.40	1.34
8:a7:81:CYS:SG	11:a7:1001:CYC:HAC2	1.65	1.34
2:J1:57:GLN:CG	2:J8:67:THR:OG1	1.73	1.34
3:K1:88:ILE:CD1	4:N1:251:TYR:OH	1.71	1.34
7:u3:70:GLY:N	7:Q7:64:ASP:OD2	1.60	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K4:82:CYS:SG	11:K4:201:CYC:CAC	2.14	1.34
3:V4:82:CYS:SG	11:V4:201:CYC:CAC	2.14	1.34
3:X4:36:LYS:HB3	3:X4:156:LEU:CD1	1.56	1.34
3:M6:151:GLY:CA	11:M6:202:CYC:HMD2	1.58	1.34
3:G8:82:CYS:SG	11:G8:202:CYC:CAC	2.14	1.34
3:T8:82:CYS:SG	11:T8:201:CYC:CAC	2.14	1.34
2:B2:84:CYS:HB2	11:B2:201:CYC:CAC	1.57	1.34
2:Q2:84:CYS:HB2	11:Q2:201:CYC:CAC	1.57	1.34
11:C6:203:CYC:CAA	2:D6:122:PHE:HE2	1.40	1.34
2:L6:84:CYS:HB2	11:L6:201:CYC:CAC	1.57	1.34
11:A8:301:CYC:CAC	3:C8:82:CYS:SG	2.14	1.34
3:K8:82:CYS:SG	11:K8:201:CYC:CAC	2.14	1.34
2:B2:122:PHE:HE2	11:B2:201:CYC:CAA	1.40	1.34
2:S2:84:CYS:HB2	11:S2:201:CYC:CAC	1.57	1.34
2:W2:84:CYS:HB2	11:W2:201:CYC:CAC	1.57	1.34
7:Z3:22:GLU:CA	7:L7:25:ARG:HH22	1.41	1.34
3:V4:139:VAL:HA	3:V4:142:VAL:CG1	1.58	1.34
2:D1:28:TYR:OH	11:D1:201:CYC:NB	1.57	1.33
11:I2:203:CYC:CAC	2:J2:84:CYS:HB2	1.57	1.33
2:Q2:122:PHE:HE2	11:Q2:201:CYC:CAA	1.40	1.33
2:U2:122:PHE:HE2	11:Z2:201:CYC:CAA	1.40	1.33
2:W2:122:PHE:HE2	11:W2:201:CYC:CAA	1.40	1.33
3:X4:82:CYS:SG	11:X4:201:CYC:CAC	2.14	1.33
2:U6:122:PHE:HE2	11:U6:201:CYC:CAA	1.40	1.33
2:O8:140:HIS:ND1	2:O8:142:LEU:HG	1.40	1.33
2:O2:122:PHE:HE2	11:T2:201:CYC:CAA	1.40	1.33
7:u3:154:ASP:OD2	8:P7:46:ALA:HB2	1.24	1.33
2:U4:149:GLU:HG3	2:U4:153:TYR:CD2	1.62	1.33
7:J7:81:CYS:SG	11:J7:1001:CYC:HAC2	1.68	1.33
8:W7:81:CYS:SG	11:W7:1001:CYC:HAC2	1.66	1.33
3:I8:82:CYS:SG	11:I8:201:CYC:CAC	2.14	1.33
3:M8:82:CYS:SG	11:M8:202:CYC:CAC	2.14	1.33
11:N8:301:CYC:CAC	3:R8:82:CYS:SG	2.14	1.33
3:T8:151:GLY:HA3	11:T8:202:CYC:CMD	1.55	1.33
11:K2:203:CYC:CAC	2:L2:84:CYS:HB2	1.57	1.33
7:Z7:81:CYS:SG	11:Z7:1001:CYC:HAC2	1.68	1.33
2:D2:84:CYS:HB2	11:D2:201:CYC:CAC	1.57	1.33
3:K2:57:ARG:NH2	11:K2:203:CYC:O2D	1.59	1.33
7:I3:113:ARG:CD	7:C7:117:LYS:HZ1	1.36	1.33
7:A7:81:CYS:SG	11:A7:1001:CYC:HAC2	1.68	1.33
8:Y7:81:CYS:SG	11:Y7:1001:CYC:HAC2	1.66	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E2:57:ARG:NH2	11:E2:203:CYC:O1D	1.61	1.33
2:H2:84:CYS:HB2	11:H2:201:CYC:CAC	1.57	1.33
2:J4:64:PRO:CB	2:J5:61:SER:OG	1.77	1.33
3:K4:153:CYS:SG	11:K4:202:CYC:CBC	2.15	1.33
3:G5:82:CYS:SG	11:G5:201:CYC:HAC1	1.69	1.33
3:M5:82:CYS:SG	11:M5:201:CYC:HAC1	1.69	1.33
3:X5:57:ARG:NH1	11:X5:203:CYC:O2D	1.57	1.33
3:X5:82:CYS:SG	11:X5:201:CYC:HAC1	1.69	1.33
2:F6:122:PHE:HE2	11:F6:201:CYC:CAA	1.40	1.33
7:H7:81:CYS:SG	11:H7:1001:CYC:HAC2	1.68	1.33
3:X8:153:CYS:SG	11:X8:202:CYC:CBC	2.17	1.33
11:A1:302:CYC:HAC1	3:E1:82:CYS:SG	1.69	1.32
11:N1:301:CYC:HAC1	3:T1:82:CYS:SG	1.69	1.32
3:P1:82:CYS:SG	11:P1:201:CYC:HAC1	1.69	1.32
2:H2:122:PHE:HE2	11:H2:201:CYC:CAA	1.40	1.32
11:I2:203:CYC:CAA	2:J2:122:PHE:HE2	1.40	1.32
11:K2:203:CYC:CAA	2:L2:122:PHE:HE2	1.40	1.32
2:U2:84:CYS:HB2	11:Z2:201:CYC:CAC	1.57	1.32
3:R5:82:CYS:SG	11:R5:201:CYC:HAC1	1.69	1.32
2:L6:122:PHE:HE2	11:L6:201:CYC:CAA	1.40	1.32
2:O6:84:CYS:HB2	11:O6:201:CYC:CAC	1.57	1.32
2:O6:122:PHE:HE2	11:O6:201:CYC:CAA	1.40	1.32
2:Q6:122:PHE:HE2	11:Q6:201:CYC:CAA	1.40	1.32
8:F7:81:CYS:SG	11:F7:1001:CYC:HAC2	1.66	1.32
3:K8:153:CYS:SG	11:K8:202:CYC:CBC	2.15	1.32
3:I1:82:CYS:SG	11:I1:201:CYC:HAC1	1.69	1.32
3:V1:82:CYS:SG	11:V1:201:CYC:HAC1	1.69	1.32
2:H6:122:PHE:HE2	11:H6:201:CYC:CAA	1.40	1.32
7:E7:81:CYS:SG	11:E7:1001:CYC:HAC2	1.68	1.32
5:03:489:ASN:ND2	11:03:902:CYC:O2A	1.59	1.32
7:K3:117:LYS:NZ	7:A7:113:ARG:NH1	1.77	1.32
2:W6:122:PHE:HE2	11:W6:201:CYC:CAA	1.40	1.32
8:B7:81:CYS:SG	11:B7:1001:CYC:HAC2	1.65	1.32
3:T8:143:MET:HE1	3:T8:153:CYS:CB	1.59	1.32
3:K1:82:CYS:SG	11:K1:201:CYC:HAC1	1.69	1.32
2:Q6:84:CYS:HB2	11:Q6:201:CYC:CAC	1.57	1.32
2:Y6:84:CYS:HB2	11:Y6:201:CYC:CAC	1.57	1.32
2:Y6:122:PHE:HE2	11:Y6:201:CYC:CAA	1.40	1.32
7:C7:81:CYS:SG	11:C7:1001:CYC:HAC2	1.68	1.32
7:L7:81:CYS:SG	11:L7:1001:CYC:HAC2	1.68	1.32
7:V7:81:CYS:SG	11:V7:1001:CYC:HAC2	1.68	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X7:81:CYS:SG	11:X7:1001:CYC:HAC2	1.68	1.32
2:D2:122:PHE:HE2	11:D2:201:CYC:CAA	1.40	1.32
11:E2:203:CYC:CAC	2:F2:84:CYS:HB2	1.57	1.32
3:C4:142:VAL:O	11:C4:201:CYC:CBC	1.75	1.32
2:U8:149:GLU:HG3	2:U8:153:TYR:CD2	1.62	1.32
2:S2:122:PHE:HE2	11:S2:201:CYC:CAA	1.40	1.31
11:X2:203:CYC:CAC	2:Y2:84:CYS:HB2	1.57	1.31
7:I3:117:LYS:NZ	7:C7:113:ARG:NH1	1.72	1.31
2:B4:61:SER:CB	2:J5:141:GLY:HA2	1.56	1.31
3:C4:43:ARG:NH2	3:C4:148:VAL:CG1	1.93	1.31
2:D4:24:LEU:CB	11:E4:202:CYC:CBB	2.04	1.31
7:O7:81:CYS:SG	11:O7:1001:CYC:HAC2	1.68	1.31
7:Q7:81:CYS:SG	11:Q7:1001:CYC:HAC2	1.68	1.31
1:A8:194:VAL:CG2	1:A8:196:TRP:HE3	1.41	1.31
3:I5:82:CYS:SG	11:I5:201:CYC:HAC1	1.69	1.31
2:J6:122:PHE:HE2	11:J6:201:CYC:CAA	1.40	1.31
8:W7:66:THR:HG22	11:X7:1001:CYC:O1A	1.15	1.31
3:M1:82:CYS:SG	11:M1:201:CYC:HAC1	1.69	1.31
3:X1:82:CYS:SG	11:X1:201:CYC:HAC1	1.69	1.31
3:C4:40:ALA:CB	3:C4:156:LEU:CD1	2.09	1.31
3:X4:153:CYS:SG	11:X4:202:CYC:CBC	2.17	1.31
11:A5:301:CYC:HAC1	3:C5:82:CYS:SG	1.69	1.31
11:R6:202:CYC:CAA	2:S6:122:PHE:HE2	1.41	1.31
2:W6:84:CYS:HB2	11:W6:201:CYC:CAC	1.57	1.31
3:X6:151:GLY:CA	11:X6:202:CYC:CMD	1.96	1.31
3:Z8:138:ALA:O	3:Z8:142:VAL:HG12	1.29	1.31
11:X2:203:CYC:CAA	2:Y2:122:PHE:HE2	1.40	1.31
7:o3:77:MET:CE	1:A4:201:ARG:HB3	1.60	1.31
2:B4:27:LEU:CD1	3:C4:38:SER:HB3	1.55	1.31
2:S4:140:HIS:ND1	2:S4:142:LEU:HG	1.45	1.31
11:N5:301:CYC:HAC1	3:T5:82:CYS:SG	1.69	1.31
3:Z5:82:CYS:SG	11:Z5:201:CYC:HAC1	1.69	1.31
3:I6:151:GLY:HA3	11:I6:202:CYC:CMD	1.60	1.31
3:C8:40:ALA:HB2	3:C8:156:LEU:CD1	1.60	1.31
3:G1:82:CYS:SG	11:G1:201:CYC:HAC1	1.69	1.31
3:Z1:82:CYS:SG	11:Z1:201:CYC:HAC1	1.69	1.31
3:T4:143:MET:HE1	3:T4:153:CYS:CB	1.59	1.31
8:K7:81:CYS:SG	11:K7:1001:CYC:HAC2	1.65	1.31
7:S7:81:CYS:SG	11:S7:1001:CYC:HAC2	1.68	1.31
3:I8:51:ILE:HD11	3:I8:141:ILE:CD1	1.60	1.31
3:V8:139:VAL:HA	3:V8:142:VAL:CG1	1.58	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:A1:301:CYC:HAC1	3:C1:82:CYS:SG	1.69	1.30
3:M2:151:GLY:CA	11:M2:202:CYC:HMD2	1.58	1.30
3:K5:82:CYS:SG	11:K5:201:CYC:HAC1	1.69	1.30
8:z3:62:TYR:CZ	1:A8:203:PHE:HB2	1.65	1.30
3:C8:43:ARG:NH2	3:C8:148:VAL:CG1	1.93	1.30
3:R1:82:CYS:SG	11:R1:201:CYC:HAC1	1.69	1.30
5:13:521:THR:OG1	8:K7:10:ASN:ND2	1.63	1.30
5:13:837:LEU:CD1	6:b7:42:ARG:HH21	1.43	1.30
3:G8:143:MET:HE2	3:G8:157:GLN:OE1	1.20	1.30
2:J1:61:SER:HB2	2:J8:61:SER:O	1.19	1.30
3:X2:151:GLY:CA	11:X2:202:CYC:CMD	1.96	1.30
7:d3:73:TYR:CD1	1:A6:194:VAL:HG21	1.67	1.30
3:I2:151:GLY:HA3	11:I2:202:CYC:CMD	1.60	1.30
3:P5:82:CYS:SG	11:P5:201:CYC:HAC1	1.69	1.30
3:P6:33:GLU:CA	3:P6:36:LYS:HG3	1.57	1.30
7:d3:66:VAL:HG11	1:A6:196:TRP:CB	1.62	1.29
1:A4:204:ARG:HH12	1:A5:219:LEU:CD2	1.42	1.29
2:W4:36:PHE:CE1	2:W4:149:GLU:OE2	1.83	1.29
11:A5:302:CYC:HAC1	3:E5:82:CYS:SG	1.69	1.29
3:C8:40:ALA:CB	3:C8:156:LEU:CD1	2.09	1.29
2:W8:36:PHE:CE1	2:W8:149:GLU:OE2	1.83	1.29
3:M2:151:GLY:CA	11:M2:202:CYC:CMD	2.10	1.29
5:03:443:TYR:OH	5:03:611:ILE:HG23	1.16	1.29
3:M4:57:ARG:NH1	11:M4:201:CYC:O2D	1.65	1.29
2:D8:33:GLN:HG3	2:L8:25:GLN:NE2	1.44	1.29
3:I4:51:ILE:HD11	3:I4:141:ILE:CD1	1.60	1.29
3:Z8:151:GLY:N	11:Z8:202:CYC:OB	1.65	1.29
3:E2:57:ARG:CZ	11:E2:203:CYC:O2D	1.79	1.29
2:Y4:149:GLU:CG	2:Y4:153:TYR:HE2	1.44	1.29
3:V5:82:CYS:SG	11:V5:201:CYC:HAC1	1.69	1.29
2:D4:33:GLN:HG3	2:L4:25:GLN:NE2	1.44	1.29
8:J3:81:CYS:SG	11:J3:201:CYC:CAC	2.22	1.28
3:Z4:138:ALA:O	3:Z4:142:VAL:HG12	1.29	1.28
2:L8:149:GLU:HG2	2:L8:153:TYR:CE2	1.68	1.28
1:A1:201:ARG:CB	7:q3:77:MET:HE2	1.60	1.28
2:L4:149:GLU:HG2	2:L4:153:TYR:CE2	1.67	1.28
1:A5:209:VAL:HB	1:A5:210:PRO:CD	1.56	1.28
11:13:902:CYC:CAC	8:Y3:81:CYS:SG	2.20	1.28
7:X3:117:LYS:NZ	7:J7:113:ARG:NH1	1.82	1.28
2:S8:140:HIS:ND1	2:S8:142:LEU:HG	1.45	1.28
3:C4:40:ALA:HB2	3:C4:156:LEU:CD1	1.60	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z4:151:GLY:N	11:Z4:202:CYC:OB	1.65	1.28
3:M8:57:ARG:NH1	11:M8:201:CYC:O2D	1.65	1.28
2:F4:150:THR:CG2	2:F4:154:ILE:HD12	1.64	1.27
3:C6:57:ARG:NH2	11:C6:203:CYC:O2D	1.64	1.27
2:F8:150:THR:CG2	2:F8:154:ILE:HD12	1.64	1.27
7:o3:79:ALA:CB	1:A5:219:LEU:HA	1.62	1.27
8:t3:128:GLN:NE2	1:A4:208:ARG:NE	1.81	1.27
3:E2:57:ARG:NH1	11:E2:203:CYC:O2D	1.68	1.27
3:G8:143:MET:CE	3:G8:157:GLN:HB2	1.61	1.27
8:z3:62:TYR:CE1	1:A8:203:PHE:CB	2.17	1.27
3:G4:143:MET:CE	3:G4:157:GLN:HB2	1.61	1.27
2:O4:22:THR:CG2	2:W4:102:GLY:O	1.83	1.27
3:C1:57:ARG:NH1	11:C1:202:CYC:O2D	1.67	1.26
3:C4:153:CYS:SG	11:C4:201:CYC:CAC	2.22	1.26
11:N4:301:CYC:O2A	3:R4:84:ARG:NH2	1.68	1.26
7:o3:68:PRO:CB	1:A4:196:TRP:HD1	1.34	1.26
11:A4:301:CYC:O2A	3:C4:84:ARG:NH2	1.68	1.26
3:G4:143:MET:HE2	3:G4:157:GLN:OE1	1.20	1.26
3:X4:84:ARG:NH2	11:X4:201:CYC:O2A	1.68	1.26
3:C5:57:ARG:NH1	11:C5:202:CYC:O2D	1.67	1.26
2:Q8:18:PHE:HD2	3:R8:45:THR:OG1	1.16	1.26
7:X3:117:LYS:HZ3	7:J7:113:ARG:NH1	1.28	1.26
1:A4:203:PHE:CE1	1:A5:216:ALA:HA	1.70	1.26
1:A5:203:PHE:CE2	1:A5:204:ARG:HG3	1.69	1.26
3:X8:84:ARG:NH2	11:X8:201:CYC:O2A	1.68	1.26
2:Y8:150:THR:O	2:Y8:154:ILE:N	1.67	1.26
8:c3:67:ARG:NE	1:A6:214:ASP:OD1	1.69	1.26
3:I4:84:ARG:NH2	11:I4:201:CYC:O2A	1.68	1.26
3:K4:84:ARG:NH2	11:K4:201:CYC:O2A	1.68	1.26
2:O4:25:GLN:NE2	2:W4:33:GLN:HG3	1.50	1.26
3:E8:84:ARG:NH2	11:E8:201:CYC:O2A	1.68	1.26
3:P6:151:GLY:CA	11:P6:202:CYC:CMD	2.14	1.26
2:O8:22:THR:CG2	2:W8:102:GLY:O	1.83	1.26
2:F4:57:GLN:HE22	3:G6:150:SER:CB	1.47	1.25
3:G4:84:ARG:NH2	11:G4:202:CYC:O2A	1.68	1.25
3:C6:35:THR:CG2	3:C6:36:LYS:HE2	1.62	1.25
3:K8:84:ARG:NH2	11:K8:201:CYC:O2A	1.68	1.25
3:Z4:84:ARG:NH2	11:Z4:201:CYC:O2A	1.68	1.25
3:C6:57:ARG:NH1	11:C6:203:CYC:O1A	1.65	1.25
2:F8:19:LEU:HD12	2:F8:23:GLU:CG	1.67	1.25
3:V8:84:ARG:NH2	11:V8:201:CYC:O2A	1.68	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V1:57:ARG:NH2	11:V1:202:CYC:O2D	1.70	1.25
2:O4:33:GLN:HG3	2:W4:25:GLN:NE2	1.50	1.25
2:B4:64:PRO:HG3	2:J5:139:ASN:OD1	1.11	1.25
3:V4:84:ARG:NH2	11:V4:201:CYC:O2A	1.68	1.25
3:Z8:84:ARG:NH2	11:Z8:201:CYC:O2A	1.68	1.25
3:M4:84:ARG:NH2	11:M4:202:CYC:O2A	1.68	1.25
3:M6:151:GLY:CA	11:M6:202:CYC:CMD	2.10	1.25
3:C8:153:CYS:SG	11:C8:201:CYC:CAC	2.22	1.25
3:G8:84:ARG:NH2	11:G8:202:CYC:O2A	1.68	1.25
2:O8:33:GLN:HG3	2:W8:25:GLN:NE2	1.50	1.25
5:03:442:VAL:CG2	5:03:608:ARG:HG3	1.66	1.25
7:I3:154:ASP:OD2	8:B7:46:ALA:HB2	1.13	1.25
3:C4:142:VAL:O	11:C4:201:CYC:HBC1	1.10	1.25
3:P2:151:GLY:CA	11:P2:202:CYC:CMD	2.14	1.24
3:R6:57:ARG:NH2	11:R6:202:CYC:O1D	1.69	1.24
2:B8:140:HIS:ND1	2:B8:142:LEU:HG	1.52	1.24
7:d3:66:VAL:CG1	1:A6:196:TRP:HB3	1.66	1.24
3:E4:40:ALA:CB	3:E4:156:LEU:HD11	1.67	1.24
2:O8:25:GLN:NE2	2:W8:33:GLN:HG3	1.49	1.24
1:A1:196:TRP:CD2	7:q3:68:PRO:HG2	1.61	1.24
3:E4:139:VAL:O	3:E4:143:MET:N	1.69	1.24
3:K4:151:GLY:HA3	11:K4:202:CYC:CMD	1.68	1.24
2:D8:25:GLN:NE2	2:L8:33:GLN:HG3	1.52	1.24
3:E8:139:VAL:O	3:E8:143:MET:N	1.69	1.24
2:H1:84:CYS:SG	11:H1:201:CYC:CAC	2.26	1.24
5:13:443:TYR:OH	11:13:902:CYC:HBA1	1.09	1.24
2:Y4:150:THR:O	2:Y4:154:ILE:N	1.67	1.24
3:I8:84:ARG:NH2	11:I8:201:CYC:O2A	1.68	1.24
3:V8:151:GLY:CA	11:V8:202:CYC:HMD1	1.58	1.24
11:C1:202:CYC:CAC	2:D1:84:CYS:SG	2.26	1.24
3:V1:82:CYS:SG	11:V1:201:CYC:NC	2.11	1.24
5:03:442:VAL:HG21	5:03:608:ARG:CG	1.66	1.24
1:A4:214:ASP:HB3	1:A4:217:LEU:CD1	1.67	1.24
2:J4:64:PRO:HB3	2:J5:61:SER:OG	1.12	1.24
2:Q4:18:PHE:HD2	3:R4:45:THR:OG1	1.16	1.24
3:X5:82:CYS:SG	11:X5:201:CYC:NC	2.11	1.24
11:O7:1001:CYC:O1A	8:T7:66:THR:HG22	1.11	1.24
3:G1:82:CYS:SG	11:G1:201:CYC:NC	2.11	1.23
3:P1:82:CYS:SG	11:P1:201:CYC:NC	2.11	1.23
2:S1:84:CYS:SG	11:S1:201:CYC:CAC	2.26	1.23
3:E4:84:ARG:NH2	11:E4:201:CYC:O2A	1.68	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J5:84:CYS:SG	11:J5:201:CYC:CAC	2.26	1.23
3:V5:82:CYS:SG	11:V5:201:CYC:NC	2.11	1.23
11:X5:203:CYC:CAC	2:Y5:84:CYS:SG	2.26	1.23
3:T6:151:GLY:N	11:T6:201:CYC:HMD2	1.52	1.23
11:A8:301:CYC:O2A	3:C8:84:ARG:NH2	1.68	1.23
11:N8:301:CYC:O2A	3:R8:84:ARG:NH2	1.68	1.23
3:I1:82:CYS:SG	11:I1:201:CYC:NC	2.12	1.23
3:K1:82:CYS:SG	11:K1:201:CYC:NC	2.11	1.23
3:M1:82:CYS:SG	11:M1:201:CYC:NC	2.12	1.23
11:N1:301:CYC:NC	3:T1:82:CYS:SG	2.12	1.23
3:T2:151:GLY:N	11:T2:202:CYC:HMD2	1.52	1.23
3:X2:40:ALA:HB2	11:X2:202:CYC:CBC	1.69	1.23
7:u3:76:GLU:HG2	1:A8:203:PHE:CE2	1.71	1.23
2:D4:152:ASN:ND2	2:L4:21:ASN:OD1	1.72	1.23
11:A5:302:CYC:NC	3:E5:82:CYS:SG	2.11	1.23
2:U5:84:CYS:SG	11:U5:201:CYC:CAC	2.26	1.23
2:B1:84:CYS:SG	11:B1:201:CYC:CAC	2.26	1.23
3:V4:142:VAL:O	11:V4:202:CYC:HBC3	1.39	1.23
11:N5:301:CYC:NC	3:T5:82:CYS:SG	2.12	1.23
3:K8:151:GLY:HA3	11:K8:202:CYC:CMD	1.68	1.23
3:M8:84:ARG:NH2	11:M8:202:CYC:O2A	1.68	1.23
2:L1:84:CYS:SG	11:L1:201:CYC:CAC	2.26	1.23
3:Z1:82:CYS:SG	11:Z1:201:CYC:NC	2.12	1.23
3:P6:33:GLU:HA	3:P6:36:LYS:CG	1.69	1.23
2:S8:140:HIS:CE1	2:S8:142:LEU:HB2	1.72	1.23
11:A1:301:CYC:NC	3:C1:82:CYS:SG	2.12	1.23
2:F4:19:LEU:HD12	2:F4:23:GLU:CG	1.67	1.23
3:V4:151:GLY:CA	11:V4:202:CYC:HMD1	1.58	1.23
3:I5:82:CYS:SG	11:I5:201:CYC:NC	2.11	1.23
3:V5:57:ARG:NH2	11:V5:202:CYC:O2D	1.70	1.23
3:V8:142:VAL:O	11:V8:202:CYC:HBC3	1.39	1.23
3:R1:82:CYS:SG	11:R1:201:CYC:NC	2.11	1.22
11:V1:202:CYC:CAC	2:W1:84:CYS:SG	2.26	1.22
3:Z2:57:ARG:NH2	11:Z2:201:CYC:O2D	1.71	1.22
7:I3:113:ARG:HD3	7:C7:117:LYS:NZ	1.46	1.22
11:A1:302:CYC:NC	3:E1:82:CYS:SG	2.12	1.22
2:F1:84:CYS:SG	11:F1:201:CYC:CAC	2.26	1.22
2:B2:24:LEU:CD1	11:C2:202:CYC:CBB	2.17	1.22
2:B4:140:HIS:ND1	2:B4:142:LEU:HG	1.52	1.22
2:S4:140:HIS:CE1	2:S4:142:LEU:HB2	1.72	1.22
3:K5:82:CYS:SG	11:K5:201:CYC:NC	2.11	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y8:149:GLU:HB2	2:Y8:153:TYR:CD2	1.75	1.22
3:X1:82:CYS:SG	11:X1:201:CYC:NC	2.11	1.22
11:X1:203:CYC:CAC	2:Y1:84:CYS:SG	2.26	1.22
2:B2:122:PHE:CE2	11:B2:201:CYC:HAA2	1.75	1.22
3:V2:151:GLY:HA3	11:V2:202:CYC:CMD	1.68	1.22
3:X2:57:ARG:NH1	11:X2:203:CYC:O1A	1.69	1.22
7:d3:73:TYR:CD1	1:A6:194:VAL:CG2	2.21	1.22
2:D4:25:GLN:NE2	2:L4:33:GLN:HG3	1.52	1.22
2:B6:24:LEU:CD1	11:C6:202:CYC:CBB	2.17	1.22
2:O6:122:PHE:CE2	11:O6:201:CYC:HAA2	1.75	1.22
2:D8:19:LEU:HD21	3:E8:95:TYR:CE1	1.74	1.22
3:P1:39:ASP:OD2	11:P1:202:CYC:ND	1.73	1.22
2:Q1:84:CYS:SG	11:Q1:201:CYC:CAC	2.26	1.22
8:c3:67:ARG:NH2	1:A6:214:ASP:OD1	1.71	1.22
1:A4:216:ALA:N	1:A5:203:PHE:HE1	1.36	1.22
2:D4:19:LEU:CD2	3:E4:95:TYR:CE1	2.23	1.22
2:F4:24:LEU:HD11	11:F4:201:CYC:C4B	1.68	1.22
2:H5:84:CYS:SG	11:H5:201:CYC:CAC	2.26	1.22
3:P5:82:CYS:SG	11:P5:201:CYC:NC	2.11	1.22
2:L6:122:PHE:CE2	11:L6:201:CYC:HAA2	1.75	1.22
6:b7:17:ARG:HD2	6:b7:21:GLU:OE2	1.32	1.22
2:D8:152:ASN:ND2	2:L8:21:ASN:OD1	1.72	1.22
3:K8:139:VAL:O	3:K8:142:VAL:HG13	1.37	1.22
3:C1:39:ASP:OD2	11:C1:201:CYC:ND	1.73	1.22
2:J1:84:CYS:SG	11:J1:201:CYC:CAC	2.26	1.22
8:c3:67:ARG:CG	1:A6:213:GLY:HA3	1.68	1.22
2:B4:149:GLU:CG	2:B4:153:TYR:CE2	2.15	1.22
3:I4:139:VAL:HA	3:I4:142:VAL:CG1	1.70	1.22
2:B5:84:CYS:SG	11:B5:201:CYC:CAC	2.26	1.22
2:F5:84:CYS:SG	11:F5:201:CYC:CAC	2.26	1.22
3:G5:82:CYS:SG	11:G5:201:CYC:NC	2.11	1.22
2:L5:84:CYS:SG	11:L5:201:CYC:CAC	2.26	1.22
2:Q5:84:CYS:SG	11:Q5:201:CYC:CAC	2.26	1.22
2:S5:84:CYS:SG	11:S5:201:CYC:CAC	2.26	1.22
3:T5:39:ASP:OD2	11:T5:201:CYC:ND	1.73	1.22
2:U1:84:CYS:SG	11:U1:201:CYC:CAC	2.26	1.21
3:K4:139:VAL:O	3:K4:142:VAL:HG13	1.37	1.21
3:Z4:139:VAL:O	3:Z4:143:MET:N	1.71	1.21
2:O5:84:CYS:SG	11:O5:201:CYC:CAC	2.26	1.21
11:V5:202:CYC:CAC	2:W5:84:CYS:SG	2.26	1.21
2:H6:122:PHE:CE2	11:H6:201:CYC:HAA2	1.75	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J6:122:PHE:CE2	11:J6:201:CYC:HAA2	1.75	1.21
3:V6:151:GLY:HA3	11:V6:202:CYC:CMD	1.68	1.21
2:O1:84:CYS:SG	11:O1:201:CYC:CAC	2.26	1.21
2:S2:122:PHE:CE2	11:S2:201:CYC:HAA2	1.75	1.21
11:A5:301:CYC:NC	3:C5:82:CYS:SG	2.11	1.21
11:C5:202:CYC:CAC	2:D5:84:CYS:SG	2.26	1.21
3:I5:39:ASP:OD2	11:I5:202:CYC:ND	1.73	1.21
3:X5:39:ASP:OD2	11:X5:202:CYC:ND	1.73	1.21
3:Z5:82:CYS:SG	11:Z5:201:CYC:NC	2.12	1.21
2:B6:122:PHE:CE2	11:B6:201:CYC:HAA2	1.75	1.21
7:Q7:63:PRO:HG3	1:A8:196:TRP:CH2	1.74	1.21
11:U1:202:CYC:ND	3:V1:39:ASP:OD2	1.73	1.21
3:G4:143:MET:HE1	3:G4:157:GLN:HB2	1.21	1.21
3:M5:39:ASP:OD2	11:M5:202:CYC:ND	1.73	1.21
3:X6:40:ALA:HB2	11:X6:202:CYC:CBC	1.69	1.21
3:R1:39:ASP:OD2	11:R1:202:CYC:ND	1.73	1.21
5:13:561:ASN:OD1	11:I7:1001:CYC:HMA2	1.40	1.21
7:o3:79:ALA:N	1:A5:222:ALA:CB	2.04	1.21
3:R5:39:ASP:OD2	11:R5:202:CYC:ND	1.73	1.21
11:U5:202:CYC:ND	3:V5:39:ASP:OD2	1.73	1.21
11:C6:203:CYC:HAA2	2:D6:122:PHE:CE2	1.75	1.21
2:Q6:122:PHE:CE2	11:Q6:201:CYC:HAA2	1.75	1.21
2:Y6:122:PHE:CE2	11:Y6:201:CYC:HAA2	1.75	1.21
7:q3:64:ASP:O	7:V7:64:ASP:OD1	1.58	1.21
1:A4:203:PHE:HE1	1:A5:216:ALA:CA	1.54	1.21
11:G5:202:CYC:HAB2	2:J5:149:GLU:OE2	1.39	1.21
3:M5:82:CYS:SG	11:M5:201:CYC:NC	2.12	1.21
3:R5:82:CYS:SG	11:R5:201:CYC:NC	2.11	1.20
2:F6:122:PHE:CE2	11:F6:201:CYC:HAA2	1.75	1.20
11:R6:202:CYC:HAA2	2:S6:122:PHE:CE2	1.75	1.20
11:V7:1001:CYC:O1A	8:a7:66:THR:HG22	1.08	1.20
2:H2:122:PHE:CE2	11:H2:201:CYC:HAA2	1.75	1.20
2:U4:150:THR:O	2:U4:154:ILE:N	1.72	1.20
3:G5:39:ASP:OD2	11:G5:202:CYC:ND	1.73	1.20
2:W6:122:PHE:CE2	11:W6:201:CYC:HAA2	1.75	1.20
3:R8:39:ASP:OD2	11:R8:201:CYC:HMB1	1.41	1.20
3:X1:39:ASP:OD2	11:X1:202:CYC:ND	1.73	1.20
2:O2:122:PHE:CE2	11:T2:201:CYC:HAA2	1.75	1.20
3:P5:39:ASP:OD2	11:P5:202:CYC:ND	1.73	1.20
2:U6:122:PHE:CE2	11:U6:201:CYC:HAA2	1.75	1.20
3:I8:139:VAL:HA	3:I8:142:VAL:CG1	1.70	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K8:39:ASP:OD2	11:K8:202:CYC:HMB2	1.02	1.20
11:K2:203:CYC:HAA2	2:L2:122:PHE:CE2	1.75	1.20
2:Q2:122:PHE:CE2	11:Q2:201:CYC:HAA2	1.75	1.20
7:I3:117:LYS:NZ	7:C7:113:ARG:HH12	1.33	1.20
2:O4:22:THR:HG22	2:W4:102:GLY:O	1.03	1.20
7:Q7:63:PRO:CD	1:A8:196:TRP:CH2	2.24	1.20
8:Y7:66:THR:HG22	11:Z7:1001:CYC:O1A	1.42	1.20
3:Z8:139:VAL:O	3:Z8:143:MET:N	1.71	1.20
3:G1:39:ASP:OD2	11:G1:202:CYC:ND	1.73	1.20
11:G1:202:CYC:HAB2	2:J1:149:GLU:OE2	1.39	1.20
3:M1:39:ASP:OD2	11:M1:202:CYC:ND	1.73	1.20
2:U2:122:PHE:CE2	11:Z2:201:CYC:HAA2	1.75	1.20
2:W2:122:PHE:CE2	11:W2:201:CYC:HAA2	1.75	1.20
11:X2:203:CYC:HAA2	2:Y2:122:PHE:CE2	1.75	1.20
3:V6:57:ARG:NH2	11:W6:201:CYC:O1D	1.75	1.20
1:A8:194:VAL:HG21	1:A8:196:TRP:CZ3	1.77	1.20
2:U8:150:THR:O	2:U8:154:ILE:N	1.72	1.20
11:D1:201:CYC:ND	3:E1:39:ASP:OD2	1.73	1.19
3:T1:39:ASP:OD2	11:T1:201:CYC:ND	1.73	1.19
11:D5:201:CYC:ND	3:E5:39:ASP:OD2	1.73	1.19
3:Z1:39:ASP:OD2	11:Z1:202:CYC:ND	1.73	1.19
2:D2:122:PHE:CE2	11:D2:201:CYC:HAA2	1.75	1.19
11:E2:203:CYC:HAA2	2:F2:122:PHE:CE2	1.75	1.19
11:I2:203:CYC:HAA2	2:J2:122:PHE:CE2	1.75	1.19
7:o3:76:GLU:HB3	1:A4:203:PHE:CE2	1.77	1.19
7:u3:68:PRO:O	7:Q7:63:PRO:HG2	1.42	1.19
2:D4:19:LEU:HD21	3:E4:95:TYR:CE1	1.74	1.19
2:D8:19:LEU:CD2	3:E8:95:TYR:CE1	2.23	1.19
2:L8:36:PHE:CD2	2:L8:145:ASP:OD1	1.96	1.19
1:A2:207:ASP:OD2	8:O3:17:LYS:CD	1.89	1.19
3:I2:57:ARG:NH2	11:I2:203:CYC:O1D	1.74	1.19
8:R7:66:THR:HG22	11:S7:1001:CYC:O1A	1.40	1.19
2:D8:24:LEU:CB	11:E8:202:CYC:HBB3	1.69	1.19
2:L8:149:GLU:CG	2:L8:153:TYR:HE2	1.53	1.19
2:Y8:149:GLU:HB2	2:Y8:153:TYR:CE2	1.77	1.19
5:13:510:ARG:HH11	6:N7:21:GLU:CD	1.50	1.19
7:w3:68:PRO:O	7:O7:63:PRO:HG2	1.40	1.19
5:03:832:ASN:ND2	6:U7:35:ASN:ND2	1.90	1.19
5:13:561:ASN:OD1	11:I7:1001:CYC:CMA	1.90	1.19
3:K4:39:ASP:OD2	11:K4:202:CYC:HMB2	1.02	1.19
2:L4:36:PHE:CD2	2:L4:145:ASP:OD1	1.96	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G8:143:MET:HE1	3:G8:157:GLN:HB2	1.21	1.19
3:I1:39:ASP:OD2	11:I1:202:CYC:ND	1.73	1.18
3:C2:33:GLU:HA	3:C2:36:LYS:HG2	1.22	1.18
3:K5:39:ASP:OD2	11:K5:202:CYC:ND	1.73	1.18
2:U6:122:PHE:HE2	11:U6:201:CYC:HAA2	1.02	1.18
5:13:837:LEU:CD1	6:b7:42:ARG:CD	2.20	1.18
7:X3:151:ALA:HB1	7:H7:20:PRO:CB	1.72	1.18
7:o3:154:ASP:CG	8:W7:46:ALA:HB2	1.67	1.18
3:C4:138:ALA:O	3:C4:142:VAL:HG12	1.43	1.18
2:O4:21:ASN:CB	2:W4:152:ASN:ND2	2.06	1.18
11:C5:202:CYC:HMD2	2:D5:73:ASN:O	1.44	1.18
3:V6:148:VAL:CG1	11:V6:202:CYC:C4C	2.17	1.18
7:o3:20:PRO:HB3	7:V7:151:ALA:HB1	1.21	1.18
7:o3:151:ALA:HB1	7:V7:20:PRO:CB	1.71	1.18
2:U4:150:THR:HG22	2:U4:154:ILE:CG1	1.73	1.18
3:C6:57:ARG:NH2	11:C6:203:CYC:O1D	1.77	1.18
11:X1:203:CYC:HMD2	2:Y1:73:ASN:O	1.44	1.18
8:K7:81:CYS:SG	11:K7:1001:CYC:HAC1	1.80	1.18
1:A4:216:ALA:HB2	1:A5:203:PHE:CZ	1.79	1.18
2:F4:150:THR:HG23	2:F4:154:ILE:CD1	1.72	1.18
3:C5:39:ASP:OD2	11:C5:201:CYC:ND	1.73	1.18
2:S5:73:ASN:O	11:S5:201:CYC:HMD2	1.44	1.18
8:Y7:81:CYS:SG	11:Y7:1001:CYC:HAC1	1.80	1.18
3:K1:39:ASP:OD2	11:K1:202:CYC:ND	1.73	1.17
3:V2:148:VAL:CG1	11:V2:202:CYC:C4C	2.17	1.17
3:R4:39:ASP:OD2	11:R4:201:CYC:HMB1	1.41	1.17
2:O5:73:ASN:O	11:O5:201:CYC:HMD2	1.44	1.17
2:Q5:149:GLU:OE2	11:U5:202:CYC:HAB2	1.42	1.17
8:P7:76:ARG:NH1	11:P7:1001:CYC:O1D	1.77	1.17
11:V1:202:CYC:HMD2	2:W1:73:ASN:O	1.44	1.17
7:I3:70:GLY:N	7:C7:64:ASP:OD2	1.74	1.17
8:c3:67:ARG:CZ	1:A6:214:ASP:OD1	1.91	1.17
2:Q4:36:PHE:CD1	2:Q4:145:ASP:HB3	1.78	1.17
2:F5:73:ASN:O	11:F5:201:CYC:HMD2	1.44	1.17
8:T7:81:CYS:SG	11:T7:1001:CYC:HAC1	1.80	1.17
2:F1:73:ASN:O	11:F1:201:CYC:HMD2	1.44	1.17
2:Q1:73:ASN:O	11:Q1:201:CYC:HMD2	1.44	1.17
7:o3:154:ASP:OD2	8:W7:46:ALA:HB2	1.44	1.17
8:W7:81:CYS:SG	11:W7:1001:CYC:HAC1	1.80	1.17
1:A8:194:VAL:CG2	1:A8:196:TRP:CE3	2.20	1.17
2:O8:22:THR:HG22	2:W8:102:GLY:O	1.03	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:73:ASN:O	11:H1:201:CYC:HMD2	1.44	1.17
3:C2:36:LYS:NZ	11:C2:202:CYC:O1D	1.76	1.17
1:A4:194:VAL:HG21	1:A4:196:TRP:CE2	1.78	1.17
3:Z5:39:ASP:OD2	11:Z5:202:CYC:ND	1.73	1.17
2:F8:150:THR:HG23	2:F8:154:ILE:CD1	1.72	1.17
2:Q8:36:PHE:CD1	2:Q8:145:ASP:HB3	1.78	1.17
2:S1:73:ASN:O	11:S1:201:CYC:HMD2	1.44	1.17
1:A5:203:PHE:CE2	1:A5:204:ARG:CG	2.28	1.17
2:L5:73:ASN:O	11:L5:201:CYC:HMD2	1.44	1.17
2:B6:24:LEU:HD12	11:C6:202:CYC:HBB1	1.27	1.17
2:B6:122:PHE:HE2	11:B6:201:CYC:HAA2	1.02	1.17
8:T7:76:ARG:NH1	11:T7:1001:CYC:O1D	1.77	1.17
2:Q1:149:GLU:OE2	11:U1:202:CYC:HAB2	1.42	1.16
3:K2:57:ARG:NH1	11:K2:203:CYC:O1A	1.78	1.16
2:J4:24:LEU:HD21	3:K4:42:SER:HB3	1.24	1.16
2:U5:73:ASN:O	11:U5:201:CYC:HMD2	1.44	1.16
3:I6:57:ARG:NH2	11:J6:201:CYC:O1D	1.78	1.16
3:K6:57:ARG:NH2	11:L6:201:CYC:O2D	1.76	1.16
11:A7:1001:CYC:O1A	8:F7:66:THR:HG22	1.43	1.16
8:M7:76:ARG:NH1	11:M7:1001:CYC:O1D	1.77	1.16
8:W7:76:ARG:NH1	11:W7:1001:CYC:O1D	1.77	1.16
2:D8:24:LEU:CB	11:E8:202:CYC:HBB1	1.71	1.16
11:C1:202:CYC:HMD2	2:D1:73:ASN:O	1.44	1.16
11:X5:203:CYC:HMD2	2:Y5:73:ASN:O	1.44	1.16
8:B7:76:ARG:NH1	11:B7:1001:CYC:O1D	1.77	1.16
8:D7:76:ARG:NH1	11:D7:1001:CYC:O1D	1.77	1.16
1:A8:208:ARG:HH22	1:A8:211:GLN:CG	1.59	1.16
2:O8:86:ARG:NH2	11:O8:201:CYC:H2A	1.43	1.16
2:U8:150:THR:HG22	2:U8:154:ILE:CG1	1.73	1.16
1:A1:196:TRP:CE2	7:q3:68:PRO:CG	2.22	1.16
2:J1:73:ASN:O	11:J1:201:CYC:HMD2	1.44	1.16
11:X2:203:CYC:HAA2	2:Y2:122:PHE:HE2	1.02	1.16
2:O4:86:ARG:NH2	11:O4:201:CYC:H2A	1.44	1.16
8:R7:81:CYS:SG	11:R7:1001:CYC:HAC1	1.80	1.16
3:I1:57:ARG:NH1	11:J1:201:CYC:O2D	1.79	1.16
2:O1:73:ASN:O	11:O1:201:CYC:HMD2	1.44	1.16
3:I2:84:ARG:NH2	11:I2:201:CYC:O2A	1.79	1.16
7:Z3:117:LYS:NZ	7:H7:113:ARG:NH1	1.92	1.16
7:d3:82:LEU:CD1	1:A6:199:ALA:O	1.92	1.16
2:Q5:73:ASN:O	11:Q5:201:CYC:HMD2	1.44	1.16
7:Q7:63:PRO:CG	1:A8:196:TRP:CH2	2.29	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a7:76:ARG:NH1	11:a7:1001:CYC:O1D	1.77	1.16
8:c3:67:ARG:HG2	1:A6:213:GLY:HA3	1.26	1.16
11:U4:201:CYC:O2D	3:Z4:57:ARG:NH1	1.79	1.16
2:H5:73:ASN:O	11:H5:201:CYC:HMD2	1.44	1.16
3:I5:57:ARG:NH1	11:J5:201:CYC:O2D	1.79	1.16
3:V6:33:GLU:CA	3:V6:36:LYS:HE2	1.74	1.16
3:V6:57:ARG:NH1	2:W6:122:PHE:CZ	2.13	1.16
2:F8:19:LEU:HD12	2:F8:23:GLU:HG2	1.22	1.16
2:O8:21:ASN:CB	2:W8:152:ASN:ND2	2.07	1.16
3:X2:84:ARG:NH2	11:X2:201:CYC:O2A	1.79	1.15
7:q3:3:ILE:CD1	7:q3:25:ARG:HH22	1.50	1.15
3:E4:153:CYS:SG	11:E4:202:CYC:C2C	2.34	1.15
2:B5:73:ASN:O	11:B5:201:CYC:HMD2	1.44	1.15
8:R7:76:ARG:NH1	11:R7:1001:CYC:O1D	1.77	1.15
3:K2:84:ARG:NH2	11:K2:201:CYC:O2A	1.79	1.15
3:K2:149:THR:OG1	11:K2:202:CYC:HAD1	1.46	1.15
3:X2:151:GLY:N	11:X2:202:CYC:CMD	2.08	1.15
7:d3:56:ASP:OD2	1:A6:200:VAL:HG11	1.43	1.15
8:t3:62:TYR:CE1	1:A4:203:PHE:CA	2.27	1.15
11:A6:301:CYC:O2A	3:G6:84:ARG:NH2	1.79	1.15
2:B6:24:LEU:HD13	11:C6:202:CYC:CBB	1.76	1.15
3:C6:36:LYS:NZ	11:C6:202:CYC:O1D	1.79	1.15
3:M6:84:ARG:NH2	11:M6:201:CYC:O2A	1.79	1.15
8:F7:76:ARG:NH1	11:F7:1001:CYC:O1D	1.77	1.15
11:H1:201:CYC:O2D	3:M1:57:ARG:NH2	1.79	1.15
2:U1:73:ASN:O	11:U1:201:CYC:HMD2	1.44	1.15
3:V2:33:GLU:CA	3:V2:36:LYS:HE2	1.75	1.15
7:o3:117:LYS:HZ3	7:X7:113:ARG:NH1	1.33	1.15
3:Z6:84:ARG:NH2	11:Z6:201:CYC:O2A	1.79	1.15
8:D7:81:CYS:SG	11:D7:1001:CYC:HAC1	1.80	1.15
3:C8:153:CYS:SG	11:C8:201:CYC:C4C	2.34	1.15
11:P8:202:CYC:HMA3	2:W8:32:ARG:HH21	1.12	1.15
11:U8:201:CYC:O2D	3:Z8:57:ARG:NH1	1.79	1.15
2:J1:58:ALA:HA	2:J8:64:PRO:HB3	1.29	1.15
11:N2:301:CYC:O2A	3:R2:84:ARG:NH2	1.79	1.15
7:o3:117:LYS:NZ	7:X7:113:ARG:HH12	1.33	1.15
3:C4:153:CYS:SG	11:C4:201:CYC:C4C	2.34	1.15
2:D4:24:LEU:CB	11:E4:202:CYC:HBB3	1.69	1.15
3:I4:51:ILE:HD11	3:I4:141:ILE:HD12	1.18	1.15
2:J6:122:PHE:HE2	11:J6:201:CYC:HAA2	1.02	1.15
3:P6:84:ARG:NH2	11:P6:201:CYC:O2A	1.79	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E8:153:CYS:SG	11:E8:202:CYC:C2C	2.34	1.15
2:F8:150:THR:CG2	2:F8:154:ILE:CD1	2.24	1.15
2:L1:73:ASN:O	11:L1:201:CYC:HMD2	1.44	1.15
5:03:837:LEU:CD1	6:U7:42:ARG:HD2	1.76	1.15
7:u3:154:ASP:CG	8:P7:46:ALA:CB	2.19	1.15
2:Y4:149:GLU:CG	2:Y4:153:TYR:CE2	2.21	1.15
3:C6:84:ARG:NH2	11:C6:201:CYC:O2A	1.79	1.15
3:E6:84:ARG:NH2	11:E6:201:CYC:O2A	1.79	1.15
3:I6:84:ARG:NH2	11:I6:201:CYC:O2A	1.79	1.15
3:X6:151:GLY:N	11:X6:202:CYC:CMD	2.08	1.15
8:K7:76:ARG:NH1	11:K7:1001:CYC:O1D	1.77	1.15
2:J1:61:SER:CB	2:J8:61:SER:HA	1.76	1.14
11:A2:301:CYC:O2A	3:G2:84:ARG:NH2	1.79	1.14
2:B2:24:LEU:HD12	11:C2:202:CYC:HBB1	1.27	1.14
2:D2:122:PHE:HE2	11:D2:201:CYC:HAA2	1.02	1.14
3:P2:36:LYS:HD2	11:P2:202:CYC:O1D	1.46	1.14
7:Z3:25:ARG:HD2	7:L7:25:ARG:NE	1.61	1.14
3:I4:139:VAL:O	3:I4:142:VAL:HG13	1.44	1.14
11:H5:201:CYC:O2D	3:M5:57:ARG:NH2	1.79	1.14
2:J5:73:ASN:O	11:J5:201:CYC:HMD2	1.44	1.14
8:Y7:76:ARG:NH1	11:Y7:1001:CYC:O1D	1.77	1.14
3:I8:51:ILE:HD11	3:I8:141:ILE:HD12	1.18	1.14
2:Y8:18:PHE:CD2	3:Z8:45:THR:OG1	1.98	1.14
3:E2:84:ARG:NH2	11:E2:201:CYC:O2A	1.79	1.14
2:H2:122:PHE:HE2	11:H2:201:CYC:HAA2	1.02	1.14
7:o3:3:ILE:HD11	7:V7:25:ARG:HH22	1.06	1.14
8:z3:62:TYR:CZ	1:A8:203:PHE:CB	2.28	1.14
2:O4:153:TYR:CE1	2:W4:21:ASN:ND2	2.16	1.14
2:W4:149:GLU:HG2	2:W4:153:TYR:CE2	1.82	1.14
2:Y4:36:PHE:HE1	2:Y4:149:GLU:OE2	1.28	1.14
3:P6:33:GLU:HB3	3:P6:36:LYS:HE2	1.19	1.14
3:V6:151:GLY:HA3	11:V6:202:CYC:HMD3	1.18	1.14
2:U8:24:LEU:HB3	11:V8:202:CYC:CBB	1.77	1.14
2:W8:149:GLU:HG2	2:W8:153:TYR:CE2	1.82	1.14
2:B2:122:PHE:HE2	11:B2:201:CYC:HAA2	1.02	1.14
2:F4:24:LEU:CD1	11:F4:201:CYC:C4B	2.24	1.14
2:Y4:18:PHE:CD2	3:Z4:45:THR:OG1	1.98	1.14
11:V5:202:CYC:HMD2	2:W5:73:ASN:O	1.44	1.14
11:N6:302:CYC:O2A	3:T6:84:ARG:NH2	1.79	1.14
8:I7:76:ARG:NH1	11:I7:1001:CYC:O1D	1.77	1.14
2:B8:149:GLU:CG	2:H8:21:ASN:HD21	1.60	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J1:138:ALA:CB	2:B8:64:PRO:HB2	1.76	1.14
11:N2:302:CYC:O2A	3:T2:84:ARG:NH2	1.79	1.14
7:I3:113:ARG:NH1	7:C7:117:LYS:CE	2.11	1.14
7:u3:113:ARG:NH1	7:Q7:117:LYS:HG3	1.62	1.14
7:u3:151:ALA:CB	7:O7:20:PRO:CB	2.24	1.14
2:F4:150:THR:CG2	2:F4:154:ILE:CD1	2.24	1.14
3:C8:139:VAL:HA	3:C8:142:VAL:CG1	1.78	1.14
3:P8:51:ILE:HD11	3:P8:141:ILE:HD12	1.18	1.14
3:X2:146:ALA:O	3:X2:148:VAL:HG23	1.45	1.14
5:03:512:ASN:CA	6:G7:23:GLN:NE2	2.11	1.14
7:X3:70:GLY:N	7:J7:64:ASP:OD2	1.80	1.14
8:P7:81:CYS:SG	11:P7:1001:CYC:HAC1	1.80	1.14
2:D8:140:HIS:CE1	2:D8:142:LEU:HB2	1.83	1.14
2:H2:111:LEU:HD21	11:H2:201:CYC:HAB1	1.14	1.13
3:P2:84:ARG:NH2	11:P2:201:CYC:O2A	1.79	1.13
3:Z2:84:ARG:NH2	11:Z2:202:CYC:O2A	1.79	1.13
7:o3:79:ALA:HB1	1:A5:219:LEU:HA	1.14	1.13
1:A4:194:VAL:HG21	1:A4:196:TRP:NE1	1.62	1.13
2:U4:24:LEU:HB3	11:V4:202:CYC:CBB	1.77	1.13
2:Q6:122:PHE:HE2	11:Q6:201:CYC:HAA2	1.02	1.13
3:C2:84:ARG:NH2	11:C2:201:CYC:O2A	1.79	1.13
5:03:719:THR:CA	6:U7:23:GLN:NE2	1.87	1.13
3:K6:84:ARG:NH2	11:K6:201:CYC:O2A	1.79	1.13
11:N6:301:CYC:O2A	3:R6:84:ARG:NH2	1.79	1.13
2:Q6:111:LEU:HD21	11:Q6:201:CYC:HAB1	1.14	1.13
8:F7:81:CYS:SG	11:F7:1001:CYC:HAC1	1.80	1.13
2:O8:153:TYR:CE1	2:W8:21:ASN:ND2	2.16	1.13
2:Y8:32:ARG:NH1	2:Y8:145:ASP:OD1	1.81	1.13
3:M2:84:ARG:NH2	11:M2:201:CYC:O2A	1.79	1.13
5:03:521:THR:OG1	8:D7:10:ASN:ND2	1.80	1.13
8:c3:67:ARG:HD3	1:A6:213:GLY:CA	1.78	1.13
7:d3:52:LYS:NZ	1:A6:201:ARG:NE	1.96	1.13
2:L4:83:LYS:NZ	11:L4:201:CYC:H2A	1.45	1.13
2:O6:111:LEU:HD21	11:O6:201:CYC:HAB1	1.14	1.13
2:W6:111:LEU:HD21	11:W6:201:CYC:HAB1	1.14	1.13
11:H7:1001:CYC:O1A	8:M7:66:THR:HG22	1.45	1.13
2:J8:24:LEU:HD21	3:K8:42:SER:HB3	1.24	1.13
2:B1:73:ASN:O	11:B1:201:CYC:HMD2	1.44	1.13
2:Q1:83:LYS:NZ	11:Q1:201:CYC:O1A	1.82	1.13
11:X1:203:CYC:O1A	2:Y1:83:LYS:NZ	1.82	1.13
3:V2:151:GLY:HA3	11:V2:202:CYC:HMD3	1.18	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q3:82:LEU:HD13	1:A8:221:MET:HE2	1.22	1.13
2:Q5:83:LYS:NZ	11:Q5:201:CYC:O1A	1.82	1.13
3:C6:33:GLU:HA	3:C6:36:LYS:HG2	1.15	1.13
2:U6:111:LEU:HD21	11:U6:201:CYC:HAB1	1.14	1.13
3:X6:84:ARG:NH2	11:X6:201:CYC:O2A	1.79	1.13
2:O1:83:LYS:NZ	11:O1:201:CYC:O1A	1.82	1.12
11:A2:301:CYC:ND	3:G2:85:ASP:OD2	1.82	1.13
1:A5:203:PHE:CD2	1:A5:204:ARG:HG3	1.83	1.12
2:B5:83:LYS:NZ	11:B5:201:CYC:O1A	1.82	1.12
11:B5:201:CYC:O2D	3:G5:57:ARG:NH2	1.82	1.12
2:L5:83:LYS:NZ	11:L5:201:CYC:O1A	1.82	1.13
2:Y5:28:TYR:OH	11:Z5:202:CYC:NB	1.82	1.13
2:Y4:32:ARG:NH1	2:Y4:145:ASP:OD1	1.81	1.12
2:S5:83:LYS:NZ	11:S5:201:CYC:O1A	1.82	1.12
11:V5:202:CYC:O1A	2:W5:83:LYS:NZ	1.82	1.12
2:H6:111:LEU:HD21	11:H6:201:CYC:HAB1	1.14	1.12
3:K6:85:ASP:OD2	11:K6:201:CYC:ND	1.82	1.12
3:V6:33:GLU:HA	3:V6:36:LYS:HE2	1.15	1.12
3:V6:33:GLU:HB2	3:V6:36:LYS:HE3	1.31	1.12
3:X6:146:ALA:O	3:X6:148:VAL:HG23	1.45	1.12
2:Y6:111:LEU:HD21	11:Y6:201:CYC:HAB1	1.14	1.12
3:I8:139:VAL:O	3:I8:142:VAL:HG13	1.44	1.13
2:U1:83:LYS:NZ	11:U1:201:CYC:O1A	1.82	1.12
11:V1:202:CYC:O1A	2:W1:83:LYS:NZ	1.82	1.12
3:E2:85:ASP:OD2	11:E2:201:CYC:ND	1.82	1.12
2:U2:111:LEU:HD21	11:Z2:201:CYC:HAB1	1.14	1.12
7:o3:76:GLU:HB3	1:A4:203:PHE:CD2	1.83	1.13
3:P4:40:ALA:CB	3:P4:156:LEU:HD13	1.79	1.12
11:B1:201:CYC:O2D	3:G1:57:ARG:NH2	1.82	1.12
1:A2:213:GLY:HA3	8:H3:67:ARG:HG2	1.21	1.12
10:m3:81:CYS:SG	11:m3:201:CYC:CBC	2.37	1.12
1:A4:204:ARG:NH1	1:A5:219:LEU:CD2	2.11	1.12
2:D4:140:HIS:CE1	2:D4:142:LEU:HB2	1.83	1.12
3:P4:51:ILE:HD11	3:P4:141:ILE:HD12	1.18	1.12
3:V5:57:ARG:NH1	11:V5:202:CYC:O2D	1.82	1.12
2:J6:111:LEU:HD21	11:J6:201:CYC:HAB1	1.14	1.12
2:O6:122:PHE:HE2	11:O6:201:CYC:HAA2	1.02	1.12
3:R6:151:GLY:HA3	11:R6:201:CYC:HMD2	1.25	1.12
3:T8:143:MET:HE1	3:T8:153:CYS:HB2	1.15	1.12
1:A2:193:GLN:HE22	3:G2:72:ASN:N	1.46	1.12
3:P2:85:ASP:OD2	11:P2:201:CYC:ND	1.82	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z2:85:ASP:OD2	11:Z2:202:CYC:ND	1.82	1.12
8:t3:128:GLN:HE21	1:A4:208:ARG:NE	1.37	1.12
2:D4:24:LEU:HB3	11:E4:202:CYC:HBB3	1.12	1.12
2:H4:140:HIS:ND1	2:H4:142:LEU:HG	1.65	1.12
3:P4:40:ALA:HB2	3:P4:156:LEU:HD13	1.12	1.12
3:C6:35:THR:HG23	3:C6:36:LYS:CE	1.79	1.12
3:G6:151:GLY:CA	11:G6:201:CYC:HMD2	1.79	1.12
11:R6:202:CYC:CAA	2:S6:122:PHE:CE2	2.33	1.12
3:T8:151:GLY:CA	11:T8:202:CYC:HMD1	1.78	1.12
2:B1:83:LYS:NZ	11:B1:201:CYC:O1A	1.82	1.12
11:C1:202:CYC:O1A	2:D1:83:LYS:NZ	1.82	1.12
11:D1:201:CYC:HAB2	2:L1:149:GLU:OE2	1.50	1.12
2:L1:83:LYS:NZ	11:L1:201:CYC:O1A	1.82	1.12
1:A2:200:VAL:HG12	7:N3:52:LYS:HG2	1.14	1.12
11:I2:203:CYC:HAB1	2:J2:111:LEU:HD21	1.14	1.12
3:P2:33:GLU:CA	3:P2:36:LYS:CG	2.26	1.12
3:V2:33:GLU:CB	3:V2:36:LYS:CE	2.28	1.12
3:V2:33:GLU:HB2	3:V2:36:LYS:HE3	1.31	1.12
7:d3:73:TYR:CE1	1:A6:194:VAL:CB	2.32	1.12
7:o3:79:ALA:CB	1:A5:222:ALA:HB3	1.69	1.12
7:w3:73:TYR:OH	1:A5:196:TRP:HB2	1.47	1.12
2:U4:150:THR:HG22	2:U4:154:ILE:HD12	1.23	1.12
2:B6:111:LEU:CD2	11:B6:201:CYC:HAB1	1.80	1.12
2:B6:111:LEU:HD21	11:B6:201:CYC:HAB1	1.14	1.12
11:C6:203:CYC:CAA	2:D6:122:PHE:CE2	2.33	1.12
3:E6:54:ASN:OD1	3:E6:57:ARG:NH2	1.79	1.12
3:Z6:85:ASP:OD2	11:Z6:201:CYC:ND	1.82	1.12
8:F7:84:ASP:OD2	11:F7:1001:CYC:ND	1.82	1.12
2:F1:83:LYS:NZ	11:F1:201:CYC:O1A	1.82	1.12
3:V1:57:ARG:NH1	11:V1:202:CYC:O2D	1.82	1.12
1:A2:205:THR:HG21	7:N3:47:ARG:HE	1.12	1.12
2:B2:111:LEU:HD21	11:B2:201:CYC:HAB1	1.14	1.12
2:D2:111:LEU:CD2	11:D2:201:CYC:HAB1	1.80	1.12
3:K2:85:ASP:OD2	11:K2:201:CYC:ND	1.82	1.12
3:M2:85:ASP:OD2	11:M2:201:CYC:ND	1.82	1.12
11:N2:301:CYC:ND	3:R2:85:ASP:OD2	1.82	1.12
3:T2:36:LYS:HD2	3:T2:152:ASP:O	1.50	1.12
2:W2:111:LEU:HD21	11:W2:201:CYC:HAB1	1.14	1.12
5:03:561:ASN:OD1	11:B7:1001:CYC:HMA2	1.49	1.12
10:V3:81:CYS:SG	11:V3:201:CYC:CBC	2.37	1.12
7:k3:84:ASP:OD2	11:k3:1001:CYC:ND	1.83	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F4:19:LEU:HD12	2:F4:23:GLU:HG2	1.19	1.12
3:T4:151:GLY:CA	11:T4:202:CYC:HMD1	1.78	1.12
3:V4:138:ALA:O	3:V4:142:VAL:HG12	1.49	1.12
2:B5:149:GLU:OE2	11:I5:202:CYC:HAB2	1.50	1.12
2:H5:122:PHE:HE2	11:H5:201:CYC:CAA	1.63	1.12
8:K7:84:ASP:OD2	11:K7:1001:CYC:ND	1.82	1.12
2:B8:149:GLU:HG2	2:H8:21:ASN:ND2	1.65	1.12
3:P8:40:ALA:CB	3:P8:156:LEU:HD13	1.79	1.12
2:U8:150:THR:HG22	2:U8:154:ILE:HD12	1.23	1.12
3:R2:151:GLY:HA3	11:R2:201:CYC:HMD2	1.25	1.11
2:S2:111:LEU:CD2	11:S2:201:CYC:HAB1	1.80	1.11
2:W2:111:LEU:CD2	11:W2:201:CYC:HAB1	1.80	1.11
5:03:561:ASN:OD1	11:B7:1001:CYC:CMA	1.98	1.11
5:03:837:LEU:HD11	6:U7:42:ARG:HH21	1.04	1.11
7:u3:84:ASP:OD2	11:u3:1001:CYC:ND	1.83	1.11
2:F4:19:LEU:CD1	2:F4:23:GLU:HG2	1.79	1.11
2:F4:24:LEU:HD22	2:F4:28:TYR:HE1	1.08	1.11
2:H4:140:HIS:HD1	2:H4:142:LEU:HG	1.02	1.11
11:C5:202:CYC:CAA	2:D5:122:PHE:HE2	1.63	1.11
2:S5:122:PHE:HE2	11:S5:201:CYC:CAA	1.63	1.11
3:T6:36:LYS:HD2	3:T6:152:ASP:O	1.50	1.11
8:a7:81:CYS:SG	11:a7:1001:CYC:HAC1	1.80	1.11
2:D8:24:LEU:HB3	11:E8:202:CYC:HBB3	1.12	1.11
2:H8:140:HIS:ND1	2:H8:142:LEU:HG	1.65	1.11
3:K8:39:ASP:OD2	11:K8:202:CYC:CMB	1.98	1.11
3:M8:51:ILE:CD1	3:M8:141:ILE:CD1	2.28	1.11
2:S1:83:LYS:NZ	11:S1:201:CYC:O1A	1.82	1.11
2:Y1:28:TYR:OH	11:Z1:202:CYC:NB	1.82	1.11
3:G2:151:GLY:CA	11:G2:201:CYC:HMD2	1.79	1.11
11:N2:302:CYC:ND	3:T2:85:ASP:OD2	1.82	1.11
2:U2:122:PHE:HE2	11:Z2:201:CYC:HAA2	1.02	1.11
3:V2:33:GLU:HA	3:V2:36:LYS:HE2	1.15	1.11
7:w3:84:ASP:OD2	11:w3:1001:CYC:ND	1.83	1.11
2:F4:24:LEU:HD13	2:F4:28:TYR:CD1	1.84	1.11
3:M4:51:ILE:CD1	3:M4:141:ILE:CD1	2.28	1.11
11:C5:201:CYC:HAB2	2:H5:149:GLU:OE2	1.51	1.11
2:F5:122:PHE:HE2	11:F5:201:CYC:CAA	1.63	1.11
2:H5:83:LYS:NZ	11:H5:201:CYC:O1A	1.82	1.11
3:C6:85:ASP:OD2	11:C6:201:CYC:ND	1.82	1.11
3:E6:85:ASP:OD2	11:E6:201:CYC:ND	1.82	1.11
11:R6:202:CYC:CAB	2:S6:111:LEU:CD2	2.29	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M7:81:CYS:SG	11:M7:1001:CYC:HAC1	1.80	1.11
2:Q8:24:LEU:CD1	2:U8:152:ASN:HD21	1.62	1.11
2:B1:122:PHE:HE2	11:B1:201:CYC:CAA	1.63	1.11
2:J1:83:LYS:NZ	11:J1:201:CYC:O1A	1.82	1.11
11:X1:203:CYC:CAA	2:Y1:122:PHE:HE2	1.63	1.11
2:B2:24:LEU:HD13	11:C2:202:CYC:CBB	1.76	1.11
2:B2:84:CYS:SG	11:B2:201:CYC:HAC2	1.91	1.11
2:D2:84:CYS:SG	11:D2:201:CYC:HAC2	1.91	1.11
3:I2:85:ASP:OD2	11:I2:201:CYC:ND	1.82	1.11
11:K2:203:CYC:HAC2	2:L2:84:CYS:SG	1.91	1.11
2:O2:111:LEU:CD2	11:T2:201:CYC:HAB1	1.80	1.11
7:K3:84:ASP:OD2	11:K3:1001:CYC:ND	1.83	1.11
7:Z3:25:ARG:CD	7:L7:25:ARG:HE	1.62	1.11
7:d3:82:LEU:HD12	1:A6:199:ALA:O	1.47	1.11
2:J4:64:PRO:HB2	2:J5:58:ALA:HA	1.14	1.11
2:U5:83:LYS:NZ	11:U5:201:CYC:O1A	1.82	1.11
11:V5:202:CYC:CAA	2:W5:122:PHE:HE2	1.63	1.11
2:J6:111:LEU:CD2	11:J6:201:CYC:CAB	2.29	1.11
3:K6:149:THR:OG1	11:K6:202:CYC:HAD1	1.46	1.11
2:L6:111:LEU:HD21	11:L6:201:CYC:HAB1	1.14	1.11
2:O6:84:CYS:SG	11:O6:201:CYC:HAC2	1.91	1.11
2:O6:111:LEU:CD2	11:O6:201:CYC:CAB	2.29	1.11
11:R6:202:CYC:HAB1	2:S6:111:LEU:CD2	1.80	1.11
8:R7:84:ASP:OD2	11:R7:1001:CYC:ND	1.82	1.11
8:a7:84:ASP:OD2	11:a7:1001:CYC:ND	1.82	1.11
3:C8:36:LYS:HD3	3:C8:152:ASP:O	1.47	1.11
2:Q1:122:PHE:HE2	11:Q1:201:CYC:CAA	1.63	1.11
2:B2:122:PHE:CE2	11:B2:201:CYC:CAA	2.33	1.11
2:H2:111:LEU:CD2	11:H2:201:CYC:CAB	2.29	1.11
3:V2:85:ASP:OD2	11:V2:201:CYC:ND	1.82	1.11
11:X2:203:CYC:CAB	2:Y2:111:LEU:CD2	2.29	1.11
11:X2:203:CYC:HAC2	2:Y2:84:CYS:SG	1.91	1.11
7:I3:151:ALA:HB1	7:A7:20:PRO:CG	1.79	1.11
7:d3:84:ASP:OD2	11:d3:1001:CYC:ND	1.83	1.11
2:Q4:24:LEU:CD1	2:U4:152:ASN:HD21	1.62	1.11
2:L5:122:PHE:HE2	11:L5:201:CYC:CAA	1.63	1.11
11:X5:203:CYC:O1A	2:Y5:83:LYS:NZ	1.82	1.11
11:A6:301:CYC:ND	3:G6:85:ASP:OD2	1.82	1.11
11:C6:203:CYC:CAB	2:D6:111:LEU:CD2	2.29	1.11
2:F6:111:LEU:CD2	11:F6:201:CYC:CAB	2.29	1.11
2:L6:111:LEU:CD2	11:L6:201:CYC:HAB1	1.80	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P6:202:CYC:C3B	2:W6:145:ASP:OD1	1.99	1.11
2:U6:111:LEU:CD2	11:U6:201:CYC:CAB	2.29	1.11
3:V6:33:GLU:CB	3:V6:36:LYS:CE	2.28	1.11
2:W6:111:LEU:CD2	11:W6:201:CYC:CAB	2.29	1.11
8:P7:84:ASP:OD2	11:P7:1001:CYC:ND	1.82	1.11
8:W7:84:ASP:OD2	11:W7:1001:CYC:ND	1.82	1.11
2:H1:83:LYS:NZ	11:H1:201:CYC:O1A	1.82	1.11
3:K1:88:ILE:HD12	4:N1:251:TYR:OH	1.43	1.11
11:K2:203:CYC:CAB	2:L2:111:LEU:CD2	2.29	1.11
2:Q2:111:LEU:CD2	11:Q2:201:CYC:HAB1	1.80	1.11
2:W2:84:CYS:SG	11:W2:201:CYC:HAC2	1.91	1.11
2:W2:122:PHE:HE2	11:W2:201:CYC:HAA2	1.02	1.11
7:I3:20:PRO:HB3	7:A7:151:ALA:HB1	1.32	1.11
3:C4:36:LYS:HD3	3:C4:152:ASP:O	1.48	1.11
2:O4:19:LEU:HD22	2:O4:19:LEU:H	1.16	1.11
11:C5:202:CYC:O1A	2:D5:83:LYS:NZ	1.82	1.11
2:F5:83:LYS:NZ	11:F5:201:CYC:O1A	1.82	1.11
2:J5:122:PHE:HE2	11:J5:201:CYC:CAA	1.63	1.11
2:Q5:122:PHE:HE2	11:Q5:201:CYC:CAA	1.63	1.11
2:F6:84:CYS:SG	11:F6:201:CYC:HAC2	1.91	1.11
2:H6:111:LEU:CD2	11:H6:201:CYC:HAB1	1.80	1.11
2:L6:84:CYS:SG	11:L6:201:CYC:HAC2	1.91	1.11
3:V6:85:ASP:OD2	11:V6:201:CYC:ND	1.82	1.11
8:B7:81:CYS:SG	11:B7:1001:CYC:HAC1	1.80	1.11
8:Y7:84:ASP:OD2	11:Y7:1001:CYC:ND	1.82	1.11
3:E8:140:ALA:HA	3:E8:143:MET:HG2	1.28	1.11
2:H8:140:HIS:HD1	2:H8:142:LEU:HG	1.02	1.11
11:V1:202:CYC:CAA	2:W1:122:PHE:HE2	1.63	1.10
3:C2:32:ALA:O	3:C2:36:LYS:HE3	1.47	1.10
2:D2:111:LEU:CD2	11:D2:201:CYC:CAB	2.29	1.10
11:K2:203:CYC:HAB1	2:L2:111:LEU:CD2	1.80	1.10
2:S2:122:PHE:CE2	11:S2:201:CYC:CAA	2.33	1.10
2:U2:122:PHE:CE2	11:Z2:201:CYC:CAA	2.33	1.10
7:I3:113:ARG:NH1	7:C7:117:LYS:HE3	1.67	1.10
7:y3:84:ASP:OD2	11:y3:1001:CYC:ND	1.83	1.10
11:N6:302:CYC:ND	3:T6:85:ASP:OD2	1.82	1.10
2:Q6:111:LEU:CD2	11:Q6:201:CYC:HAB1	1.80	1.10
2:Q6:122:PHE:CE2	11:Q6:201:CYC:CAA	2.33	1.10
3:R6:151:GLY:HA3	11:R6:201:CYC:HMD1	1.32	1.10
2:Y6:111:LEU:CD2	11:Y6:201:CYC:HAB1	1.80	1.10
8:I7:84:ASP:OD2	11:I7:1001:CYC:ND	1.82	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F8:19:LEU:CD1	2:F8:23:GLU:HG2	1.80	1.10
2:S1:84:CYS:HA	11:S1:201:CYC:HAC1	1.34	1.10
11:E2:203:CYC:CAB	2:F2:111:LEU:CD2	2.29	1.10
11:E2:203:CYC:HAB1	2:F2:111:LEU:CD2	1.80	1.10
11:I2:203:CYC:HAB1	2:J2:111:LEU:CD2	1.80	1.10
2:O2:84:CYS:SG	11:T2:201:CYC:HAC2	1.91	1.10
2:S2:84:CYS:SG	11:S2:201:CYC:HAC2	1.91	1.10
2:U2:111:LEU:CD2	11:Z2:201:CYC:HAB1	1.80	1.10
3:X2:85:ASP:OD2	11:X2:201:CYC:ND	1.82	1.10
7:G3:84:ASP:OD2	11:G3:1001:CYC:ND	1.83	1.10
7:i3:84:ASP:OD2	11:i3:1001:CYC:ND	1.83	1.10
7:s3:84:ASP:OD2	11:s3:1001:CYC:ND	1.83	1.10
11:P4:202:CYC:HMA3	2:W4:32:ARG:NH2	1.65	1.10
2:J5:83:LYS:NZ	11:J5:201:CYC:O1A	1.82	1.10
2:O5:83:LYS:NZ	11:O5:201:CYC:O1A	1.82	1.10
2:U5:122:PHE:HE2	11:U5:201:CYC:CAA	1.63	1.10
11:C6:203:CYC:HAB1	2:D6:111:LEU:CD2	1.80	1.10
2:H6:122:PHE:HE2	11:H6:201:CYC:HAA2	1.02	1.10
3:M6:85:ASP:OD2	11:M6:201:CYC:ND	1.82	1.10
3:P6:85:ASP:OD2	11:P6:201:CYC:ND	1.82	1.10
2:Q6:84:CYS:SG	11:Q6:201:CYC:HAC2	1.91	1.10
2:Q6:111:LEU:CD2	11:Q6:201:CYC:CAB	2.29	1.10
2:U6:111:LEU:CD2	11:U6:201:CYC:HAB1	1.81	1.10
3:X6:85:ASP:OD2	11:X6:201:CYC:ND	1.82	1.10
2:Y6:122:PHE:HE2	11:Y6:201:CYC:HAA2	1.02	1.10
8:I7:81:CYS:SG	11:I7:1001:CYC:HAC1	1.80	1.10
8:M7:84:ASP:OD2	11:M7:1001:CYC:ND	1.82	1.10
3:C1:57:ARG:NH2	11:C1:202:CYC:O2D	1.83	1.10
3:K1:88:ILE:HD13	4:N1:251:TYR:OH	1.52	1.10
2:U1:122:PHE:HE2	11:U1:201:CYC:CAA	1.63	1.10
11:P2:202:CYC:C3B	2:W2:145:ASP:OD1	1.99	1.10
5:13:837:LEU:HD11	6:b7:42:ARG:HH21	0.95	1.10
7:R3:84:ASP:OD2	11:R3:1001:CYC:ND	1.83	1.10
7:b3:84:ASP:OD2	11:b3:1001:CYC:ND	1.83	1.10
7:f3:84:ASP:OD2	11:f3:1001:CYC:ND	1.83	1.10
3:E4:140:ALA:HA	3:E4:143:MET:HG2	1.28	1.10
3:K4:139:VAL:O	3:K4:143:MET:N	1.83	1.10
2:L4:149:GLU:CG	2:L4:153:TYR:HE2	1.63	1.10
2:B5:122:PHE:HE2	11:B5:201:CYC:CAA	1.63	1.10
3:C5:57:ARG:NH2	11:C5:202:CYC:O2D	1.83	1.10
2:O5:122:PHE:HE2	11:O5:201:CYC:CAA	1.63	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:V5:202:CYC:HAC1	2:W5:84:CYS:HA	1.34	1.10
11:R6:202:CYC:HAC2	2:S6:84:CYS:SG	1.91	1.10
2:U6:84:CYS:SG	11:U6:201:CYC:HAC2	1.91	1.10
2:W6:84:CYS:SG	11:W6:201:CYC:HAC2	1.91	1.10
2:W6:122:PHE:CE2	11:W6:201:CYC:CAA	2.33	1.10
3:X6:110:LEU:HD22	3:X6:170:ALA:HB3	1.33	1.10
8:T7:84:ASP:OD2	11:T7:1001:CYC:ND	1.82	1.10
3:V8:138:ALA:O	3:V8:142:VAL:HG12	1.49	1.10
2:F1:122:PHE:HE2	11:F1:201:CYC:CAA	1.63	1.10
2:O1:84:CYS:HA	11:O1:201:CYC:HAC1	1.34	1.10
2:O1:122:PHE:HE2	11:O1:201:CYC:CAA	1.63	1.10
3:C2:35:THR:HG23	3:C2:36:LYS:HE2	1.34	1.10
3:C2:85:ASP:OD2	11:C2:201:CYC:ND	1.82	1.10
2:H2:111:LEU:CD2	11:H2:201:CYC:HAB1	1.80	1.10
3:I2:1:MET:HE2	3:I2:108:ARG:NH2	1.66	1.10
11:K2:203:CYC:HAA2	2:L2:122:PHE:HE2	1.02	1.10
3:M2:151:GLY:HA3	11:M2:202:CYC:HMD1	1.19	1.10
3:P2:33:GLU:C	3:P2:36:LYS:HG2	1.74	1.10
2:S2:111:LEU:CD2	11:S2:201:CYC:CAB	2.29	1.10
2:U2:111:LEU:CD2	11:Z2:201:CYC:CAB	2.29	1.10
11:X2:203:CYC:HAB1	2:Y2:111:LEU:CD2	1.80	1.10
7:I3:151:ALA:HB1	7:A7:20:PRO:HB2	1.34	1.10
7:X3:3:ILE:HD11	7:H7:25:ARG:HH22	1.09	1.10
7:q3:84:ASP:OD2	11:q3:1001:CYC:ND	1.83	1.10
7:u3:64:ASP:OD2	7:Q7:70:GLY:N	1.82	1.10
3:E4:40:ALA:HB2	3:E4:156:LEU:CD1	1.82	1.10
3:K4:39:ASP:OD2	11:K4:202:CYC:CMB	1.98	1.10
3:K4:139:VAL:O	3:K4:142:VAL:CG1	1.99	1.10
2:H6:111:LEU:CD2	11:H6:201:CYC:CAB	2.29	1.10
3:I6:1:MET:HE2	3:I6:108:ARG:NH2	1.66	1.10
2:U6:122:PHE:CE2	11:U6:201:CYC:CAA	2.33	1.10
7:Q7:63:PRO:HD3	1:A8:196:TRP:CH2	1.85	1.10
3:C8:51:ILE:CD1	3:C8:141:ILE:HD12	1.80	1.10
11:P8:202:CYC:HMA3	2:W8:32:ARG:NH2	1.65	1.10
11:C1:202:CYC:CAA	2:D1:122:PHE:HE2	1.63	1.10
2:J1:122:PHE:HE2	11:J1:201:CYC:CAA	1.63	1.10
2:L1:122:PHE:HE2	11:L1:201:CYC:CAA	1.63	1.10
2:S1:122:PHE:HE2	11:S1:201:CYC:CAA	1.63	1.10
2:B2:111:LEU:CD2	11:B2:201:CYC:HAB1	1.80	1.10
2:B2:111:LEU:CD2	11:B2:201:CYC:CAB	2.29	1.10
11:E2:203:CYC:HAC2	2:F2:84:CYS:SG	1.91	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:203:CYC:CAB	2:J2:111:LEU:CD2	2.29	1.10
2:Q2:84:CYS:CB	11:Q2:201:CYC:CAC	2.24	1.10
2:Q2:111:LEU:CD2	11:Q2:201:CYC:CAB	2.29	1.10
2:U2:84:CYS:SG	11:Z2:201:CYC:HAC2	1.91	1.10
2:W2:111:LEU:CD2	11:W2:201:CYC:CAB	2.29	1.10
7:P3:84:ASP:OD2	11:P3:1001:CYC:ND	1.83	1.10
3:R4:51:ILE:HD11	3:R4:141:ILE:HD12	1.32	1.10
2:B6:111:LEU:CD2	11:B6:201:CYC:CAB	2.29	1.10
2:F6:111:LEU:CD2	11:F6:201:CYC:HAB1	1.80	1.10
3:I6:85:ASP:OD2	11:I6:201:CYC:ND	1.82	1.10
2:J6:111:LEU:CD2	11:J6:201:CYC:HAB1	1.80	1.10
2:W6:111:LEU:CD2	11:W6:201:CYC:HAB1	1.80	1.10
8:D7:84:ASP:OD2	11:D7:1001:CYC:ND	1.82	1.10
8:T7:83:ARG:NH2	11:T7:1001:CYC:O2A	1.85	1.10
11:E2:203:CYC:HAB1	2:F2:111:LEU:HD21	1.14	1.09
11:I2:203:CYC:HAC2	2:J2:84:CYS:SG	1.91	1.09
2:Q2:84:CYS:SG	11:Q2:201:CYC:HAC2	1.91	1.09
2:Q2:122:PHE:HE2	11:Q2:201:CYC:HAA2	1.02	1.09
3:T2:150:SER:C	11:T2:202:CYC:HMD2	1.76	1.09
11:X2:203:CYC:CAA	2:Y2:122:PHE:CE2	2.33	1.09
5:03:637:GLU:OE2	6:G7:46:MET:HE1	1.52	1.09
7:K3:117:LYS:HZ2	7:A7:113:ARG:NH1	1.44	1.09
7:Z3:84:ASP:OD2	11:Z3:1001:CYC:ND	1.83	1.09
2:Q4:18:PHE:CD2	3:R4:45:THR:OG1	2.02	1.09
3:T4:51:ILE:HD11	3:T4:141:ILE:HD12	1.13	1.09
2:F5:84:CYS:HA	11:F5:201:CYC:HAC1	1.34	1.09
11:X5:203:CYC:CAA	2:Y5:122:PHE:HE2	1.63	1.09
2:B6:24:LEU:CD1	11:C6:202:CYC:HBB3	1.80	1.09
2:B6:84:CYS:SG	11:B6:201:CYC:HAC2	1.91	1.09
11:C6:203:CYC:HAB1	2:D6:111:LEU:HD21	1.14	1.09
11:C6:203:CYC:HAC2	2:D6:84:CYS:SG	1.91	1.09
2:H6:84:CYS:SG	11:H6:201:CYC:HAC2	1.91	1.09
2:J6:122:PHE:CE2	11:J6:201:CYC:CAA	2.33	1.09
2:L6:111:LEU:CD2	11:L6:201:CYC:CAB	2.29	1.09
3:M6:151:GLY:HA3	11:M6:202:CYC:HMD1	1.19	1.09
2:Y6:84:CYS:SG	11:Y6:201:CYC:HAC2	1.91	1.09
3:T8:51:ILE:HD11	3:T8:141:ILE:HD12	1.13	1.09
3:G2:151:GLY:CA	11:G2:201:CYC:CMD	2.31	1.09
2:H2:122:PHE:CE2	11:H2:201:CYC:CAA	2.33	1.09
11:I2:203:CYC:CAA	2:J2:122:PHE:CE2	2.33	1.09
2:O2:111:LEU:CD2	11:T2:201:CYC:CAB	2.29	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:03:637:GLU:OE2	6:G7:46:MET:CE	2.01	1.09
7:I3:84:ASP:OD2	11:I3:1001:CYC:ND	1.83	1.09
7:X3:117:LYS:NZ	7:J7:113:ARG:HH12	1.41	1.09
7:d3:59:PHE:CD2	1:A6:196:TRP:CE3	2.34	1.09
2:B4:27:LEU:CD1	3:C4:38:SER:HB2	1.74	1.09
3:T4:143:MET:HE1	3:T4:153:CYS:HB2	1.15	1.09
3:P6:151:GLY:HA3	11:P6:202:CYC:HMD2	1.25	1.09
11:R6:202:CYC:HAB1	2:S6:111:LEU:HD21	1.14	1.09
3:G8:36:LYS:NZ	3:G8:152:ASP:O	1.85	1.09
3:K8:139:VAL:O	3:K8:142:VAL:CG1	1.99	1.09
2:B1:149:GLU:OE2	11:I1:202:CYC:HAB2	1.50	1.09
11:C1:201:CYC:HAB2	2:H1:149:GLU:OE2	1.51	1.09
3:C2:151:GLY:HA3	11:C2:202:CYC:CMD	1.81	1.09
2:O2:122:PHE:HE2	11:T2:201:CYC:HAA2	1.02	1.09
3:T2:151:GLY:HA3	11:T2:202:CYC:HMD3	1.11	1.09
7:N3:84:ASP:OD2	11:N3:1001:CYC:ND	1.83	1.09
7:o3:68:PRO:O	7:X7:63:PRO:HG2	1.53	1.09
3:G4:36:LYS:NZ	3:G4:152:ASP:O	1.85	1.09
2:J6:84:CYS:SG	11:J6:201:CYC:HAC2	1.91	1.09
2:Y6:111:LEU:CD2	11:Y6:201:CYC:CAB	2.29	1.09
8:B7:84:ASP:OD2	11:B7:1001:CYC:ND	1.82	1.09
3:P8:40:ALA:HB2	3:P8:156:LEU:HD13	1.12	1.09
2:F1:84:CYS:HA	11:F1:201:CYC:HAC1	1.34	1.09
11:E2:203:CYC:HAA2	2:F2:122:PHE:HE2	1.02	1.09
2:H2:84:CYS:SG	11:H2:201:CYC:HAC2	1.91	1.09
7:T3:84:ASP:OD2	11:T3:1001:CYC:ND	1.83	1.09
7:u3:151:ALA:CB	7:O7:20:PRO:HB3	1.78	1.09
3:X4:143:MET:HE2	3:X4:143:MET:HA	1.35	1.09
2:O5:84:CYS:HA	11:O5:201:CYC:HAC1	1.33	1.09
11:X5:203:CYC:HAC1	2:Y5:84:CYS:HA	1.34	1.09
11:N6:301:CYC:ND	3:R6:85:ASP:OD2	1.82	1.09
2:O6:111:LEU:CD2	11:O6:201:CYC:HAB1	1.80	1.09
11:U6:201:CYC:O2D	3:Z6:57:ARG:NH2	1.84	1.09
8:B7:83:ARG:NH2	11:B7:1001:CYC:O2A	1.85	1.09
8:D7:83:ARG:NH2	11:D7:1001:CYC:O2A	1.85	1.09
8:F7:83:ARG:NH2	11:F7:1001:CYC:O2A	1.85	1.09
8:K7:83:ARG:NH2	11:K7:1001:CYC:O2A	1.85	1.09
2:H8:98:CYS:SG	2:H8:153:TYR:HE1	1.76	1.09
11:N8:301:CYC:HAC2	3:R8:82:CYS:SG	1.93	1.09
2:H1:122:PHE:HE2	11:H1:201:CYC:CAA	1.63	1.09
2:Q1:28:TYR:OH	11:R1:202:CYC:NB	1.85	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o3:84:ASP:OD2	11:o3:1001:CYC:ND	1.83	1.09
3:I4:39:ASP:OD2	11:I4:202:CYC:HMB2	1.50	1.09
2:H6:122:PHE:CE2	11:H6:201:CYC:CAA	2.33	1.09
8:M7:83:ARG:NH2	11:M7:1001:CYC:O2A	1.85	1.09
3:E8:82:CYS:SG	11:E8:201:CYC:HAC2	1.93	1.09
3:K8:139:VAL:O	3:K8:143:MET:N	1.83	1.09
2:J1:54:GLY:HA2	2:J8:68:SER:HB2	1.30	1.08
3:C2:33:GLU:HA	3:C2:36:LYS:CG	1.81	1.08
11:I2:203:CYC:HAA2	2:J2:122:PHE:HE2	1.02	1.08
2:Q2:122:PHE:CE2	11:Q2:201:CYC:CAA	2.33	1.08
8:c3:81:CYS:SG	11:c3:1001:CYC:CAC	2.42	1.08
8:e3:81:CYS:SG	11:e3:1001:CYC:CAC	2.42	1.08
8:v3:81:CYS:SG	11:v3:1001:CYC:CAC	2.42	1.08
8:x3:81:CYS:SG	11:x3:1001:CYC:CAC	2.41	1.08
1:A4:215:PRO:HB2	1:A5:203:PHE:CD1	1.86	1.08
2:Q5:28:TYR:OH	11:R5:202:CYC:NB	1.85	1.08
3:C6:151:GLY:HA3	11:C6:202:CYC:CMD	1.81	1.08
3:R6:151:GLY:CA	11:R6:201:CYC:CMD	2.31	1.08
3:X8:143:MET:HE2	3:X8:143:MET:HA	1.34	1.08
2:J1:54:GLY:HA3	2:J8:68:SER:OG	1.52	1.08
2:D2:122:PHE:CE2	11:D2:201:CYC:CAA	2.33	1.08
8:M3:81:CYS:SG	11:M3:201:CYC:CAC	2.42	1.08
7:w3:64:ASP:O	7:O7:64:ASP:OD1	1.68	1.08
2:B4:64:PRO:CG	2:J5:139:ASN:OD1	1.99	1.08
2:J4:64:PRO:HB2	2:J5:58:ALA:CA	1.83	1.08
11:P4:202:CYC:HMA3	2:W4:32:ARG:HH21	1.12	1.08
3:P6:151:GLY:HA3	11:P6:202:CYC:HMD3	1.17	1.08
8:I7:83:ARG:NH2	11:I7:1001:CYC:O2A	1.85	1.08
11:A8:301:CYC:HAC2	3:C8:82:CYS:SG	1.93	1.08
3:I8:39:ASP:OD2	11:I8:202:CYC:HMB2	1.50	1.08
1:A1:203:PHE:CE2	1:A8:215:PRO:HG2	1.87	1.08
2:D1:149:GLU:OE2	11:M1:202:CYC:HAB2	1.53	1.08
2:O2:111:LEU:HD21	11:T2:201:CYC:HAB1	1.14	1.08
11:X2:203:CYC:HAB1	2:Y2:111:LEU:HD21	1.14	1.08
8:S3:81:CYS:SG	11:S3:1001:CYC:CAC	2.42	1.08
8:t3:62:TYR:CZ	1:A4:203:PHE:HA	1.89	1.08
2:D4:19:LEU:HD21	3:E4:95:TYR:CD1	1.88	1.08
2:H4:98:CYS:SG	2:H4:153:TYR:HE1	1.76	1.08
1:A5:203:PHE:HE2	1:A5:204:ARG:HD2	1.09	1.08
1:A5:203:PHE:HE2	1:A5:204:ARG:CD	1.67	1.08
8:Y7:83:ARG:NH2	11:Y7:1001:CYC:O2A	1.85	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z8:82:CYS:SG	11:Z8:201:CYC:HAC2	1.93	1.08
2:J1:84:CYS:HA	11:J1:201:CYC:HAC1	1.34	1.08
11:O1:201:CYC:O2D	3:T1:57:ARG:NH1	1.87	1.08
2:D2:111:LEU:HD21	11:D2:201:CYC:HAB1	1.14	1.08
2:Q2:111:LEU:HD21	11:Q2:201:CYC:HAB1	1.14	1.08
2:S2:122:PHE:HE2	11:S2:201:CYC:HAA2	1.02	1.08
5:03:443:TYR:HE2	5:03:611:ILE:HG12	1.12	1.08
5:13:837:LEU:HD11	6:b7:42:ARG:NH2	1.69	1.08
7:X3:84:ASP:OD2	11:X3:1001:CYC:ND	1.83	1.08
8:r3:81:CYS:SG	11:r3:1001:CYC:CAC	2.42	1.08
8:t3:81:CYS:SG	11:t3:1001:CYC:CAC	2.42	1.08
3:P4:82:CYS:SG	11:P4:201:CYC:HAC2	1.93	1.08
2:S4:140:HIS:HE1	2:S4:142:LEU:HB2	0.94	1.08
2:L6:122:PHE:CE2	11:L6:201:CYC:CAA	2.33	1.08
8:R7:83:ARG:NH2	11:R7:1001:CYC:O2A	1.85	1.08
11:C1:202:CYC:HAC1	2:D1:84:CYS:HA	1.34	1.08
11:P1:202:CYC:HAB2	2:W1:149:GLU:OE2	1.54	1.08
3:R2:151:GLY:CA	11:R2:201:CYC:CMD	2.31	1.08
2:W2:84:CYS:CB	11:W2:201:CYC:CAC	2.24	1.08
7:I3:113:ARG:NH1	7:C7:117:LYS:HZ2	1.50	1.08
8:j3:81:CYS:SG	11:j3:1001:CYC:CAC	2.42	1.08
8:l3:81:CYS:SG	11:l3:1001:CYC:CAC	2.41	1.08
2:D4:24:LEU:CB	11:E4:202:CYC:HBB1	1.72	1.08
3:V8:139:VAL:CA	3:V8:142:VAL:CG1	2.32	1.08
2:Q1:84:CYS:HA	11:Q1:201:CYC:HAC1	1.34	1.07
11:13:903:CYC:CAC	8:a3:81:CYS:SG	2.42	1.07
7:K3:117:LYS:NZ	7:A7:113:ARG:HH12	1.43	1.07
2:D4:86:ARG:NH2	11:D4:201:CYC:H2A	1.52	1.07
3:V4:139:VAL:CA	3:V4:142:VAL:CG1	2.32	1.07
2:B5:84:CYS:HA	11:B5:201:CYC:HAC1	1.34	1.07
3:K5:88:ILE:HD12	4:N5:251:TYR:OH	1.43	1.07
3:T6:150:SER:C	11:T6:201:CYC:HMD2	1.76	1.07
8:W7:83:ARG:NH2	11:W7:1001:CYC:O2A	1.85	1.07
2:S8:140:HIS:HE1	2:S8:142:LEU:HB2	0.94	1.07
2:H1:84:CYS:HA	11:H1:201:CYC:HAC1	1.34	1.07
2:J1:138:ALA:HB1	2:B8:64:PRO:HB2	1.08	1.07
1:A2:207:ASP:OD2	8:O3:17:LYS:HD3	1.47	1.07
11:K2:203:CYC:HAB1	2:L2:111:LEU:HD21	1.14	1.07
2:W2:122:PHE:CE2	11:W2:201:CYC:CAA	2.33	1.07
5:03:719:THR:HA	6:U7:23:GLN:CD	1.78	1.07
11:03:902:CYC:CAC	8:L3:81:CYS:SG	2.41	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d3:86:ASP:OD2	1:A6:206:PRO:HD2	1.54	1.07
7:o3:3:ILE:CD1	7:V7:25:ARG:NH2	2.18	1.07
8:z3:62:TYR:CD1	1:A8:203:PHE:O	2.07	1.07
2:Q4:36:PHE:CD1	2:Q4:145:ASP:CB	2.37	1.07
2:U4:149:GLU:HG2	2:U4:153:TYR:HE2	1.19	1.07
2:F6:122:PHE:CE2	11:F6:201:CYC:CAA	2.33	1.07
1:A1:196:TRP:CD2	7:q3:68:PRO:CG	2.32	1.07
11:V1:202:CYC:HAC1	2:W1:84:CYS:HA	1.34	1.07
11:E2:203:CYC:CAA	2:F2:122:PHE:CE2	2.33	1.07
11:E2:203:CYC:CAC	2:F2:84:CYS:CB	2.24	1.07
3:K2:57:ARG:HH12	11:K2:203:CYC:CGA	1.66	1.07
5:13:561:ASN:HD21	11:I7:1001:CYC:HAA1	1.08	1.07
8:U3:81:CYS:SG	11:U3:1001:CYC:CAC	2.42	1.07
7:X3:154:ASP:CG	8:I7:46:ALA:HB2	1.77	1.07
7:d3:82:LEU:HD12	1:A6:203:PHE:HB2	1.34	1.07
8:e3:17:LYS:HG2	1:A6:207:ASP:OD2	1.52	1.07
7:o3:79:ALA:N	1:A5:222:ALA:HB2	1.62	1.07
3:X4:57:ARG:NH1	11:Y4:201:CYC:O2D	1.87	1.07
11:C5:202:CYC:HAC1	2:D5:84:CYS:HA	1.34	1.07
2:D5:149:GLU:OE2	11:M5:202:CYC:HAB2	1.53	1.07
3:T6:151:GLY:HA3	11:T6:201:CYC:HMD3	1.11	1.07
2:W6:122:PHE:HE2	11:W6:201:CYC:HAA2	1.02	1.07
8:P7:83:ARG:NH2	11:P7:1001:CYC:O2A	1.85	1.07
8:a7:83:ARG:NH2	11:a7:1001:CYC:O2A	1.85	1.07
2:Q8:36:PHE:CD1	2:Q8:145:ASP:CB	2.37	1.07
2:J1:58:ALA:HA	2:J8:64:PRO:CB	1.83	1.07
2:L1:84:CYS:HA	11:L1:201:CYC:HAC1	1.34	1.07
11:K2:203:CYC:CAA	2:L2:122:PHE:CE2	2.33	1.07
2:O2:122:PHE:CE2	11:T2:201:CYC:CAA	2.33	1.07
3:R2:151:GLY:HA3	11:R2:201:CYC:HMD1	1.32	1.07
8:O3:81:CYS:SG	11:O3:1001:CYC:CAC	2.42	1.07
8:n3:81:CYS:SG	11:n3:1001:CYC:CAC	2.42	1.07
1:A4:204:ARG:HH12	1:A5:219:LEU:HD22	1.17	1.07
3:K4:139:VAL:HA	3:K4:142:VAL:CG1	1.84	1.07
3:M4:137:ALA:O	3:M4:141:ILE:HG13	1.54	1.07
2:S4:36:PHE:CZ	2:S4:149:GLU:OE1	2.08	1.07
3:T4:51:ILE:HD11	3:T4:141:ILE:HD11	1.36	1.07
11:D5:201:CYC:HAB2	2:L5:149:GLU:OE2	1.50	1.07
3:G6:151:GLY:CA	11:G6:201:CYC:CMD	2.31	1.07
2:D8:19:LEU:HD21	3:E8:95:TYR:CD1	1.88	1.07
2:S2:111:LEU:HD21	11:S2:201:CYC:HAB1	1.14	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:13:904:CYC:CAC	8:h3:81:CYS:SG	2.42	1.07
7:I3:113:ARG:HD2	7:C7:117:LYS:HZ1	0.96	1.07
7:o3:79:ALA:HA	1:A5:222:ALA:HB2	1.09	1.07
8:p3:81:CYS:SG	11:p3:1001:CYC:CAC	2.42	1.07
2:S4:4:PRO:HD3	2:Y4:22:THR:CG2	1.85	1.07
2:L6:122:PHE:HE2	11:L6:201:CYC:HAA2	1.02	1.07
3:T8:82:CYS:SG	11:T8:201:CYC:HAC2	1.93	1.07
1:A2:200:VAL:CG1	7:N3:52:LYS:HG2	1.83	1.06
2:B2:24:LEU:CD1	11:C2:202:CYC:HBB3	1.80	1.06
5:03:443:TYR:OH	5:03:611:ILE:CG2	2.02	1.06
8:z3:81:CYS:SG	11:z3:1001:CYC:CAC	2.42	1.06
2:S4:32:ARG:HA	2:S4:32:ARG:HE	1.15	1.06
2:F5:94:MET:HE3	11:F5:201:CYC:HBB1	1.37	1.06
11:O5:201:CYC:O2D	3:T5:57:ARG:NH1	1.87	1.06
2:Q5:84:CYS:HA	11:Q5:201:CYC:HAC1	1.33	1.06
2:D8:24:LEU:HD11	2:L8:152:ASN:HD21	1.19	1.06
2:J1:94:MET:HE3	11:J1:201:CYC:HBB1	1.37	1.06
5:03:837:LEU:HD12	6:U7:42:ARG:HD2	1.29	1.06
8:H3:81:CYS:SG	11:H3:1001:CYC:CAC	2.42	1.06
3:T4:82:CYS:SG	11:T4:201:CYC:HAC2	1.93	1.06
2:Y4:36:PHE:CE1	2:Y4:149:GLU:OE2	2.08	1.06
2:L5:84:CYS:HA	11:L5:201:CYC:HAC1	1.34	1.06
2:B6:122:PHE:CE2	11:B6:201:CYC:CAA	2.33	1.06
2:U6:83:LYS:NZ	11:U6:201:CYC:O2A	1.89	1.06
2:Y6:122:PHE:CE2	11:Y6:201:CYC:CAA	2.33	1.06
3:K8:139:VAL:HA	3:K8:142:VAL:CG1	1.84	1.06
2:O8:19:LEU:HD22	2:O8:19:LEU:H	1.16	1.06
2:S8:4:PRO:HD3	2:Y8:22:THR:CG2	1.85	1.06
3:V8:139:VAL:O	3:V8:142:VAL:HG13	1.55	1.06
2:B1:84:CYS:HA	11:B1:201:CYC:HAC1	1.34	1.06
2:B2:79:ARG:NH2	3:G2:57:ARG:HH21	1.53	1.06
2:B2:83:LYS:NZ	11:B2:201:CYC:O2A	1.89	1.06
11:K2:203:CYC:O2A	2:L2:83:LYS:NZ	1.89	1.06
2:U2:83:LYS:NZ	11:Z2:201:CYC:O2A	1.89	1.06
5:03:837:LEU:CD1	6:U7:42:ARG:HH21	1.68	1.06
5:03:837:LEU:CD1	6:U7:42:ARG:NH2	2.19	1.06
5:13:837:LEU:HD13	6:b7:42:ARG:HD2	1.26	1.06
7:I3:113:ARG:HH11	7:C7:117:LYS:NZ	1.54	1.06
7:d3:86:ASP:OD2	1:A6:206:PRO:CD	2.04	1.06
3:P4:151:GLY:HA3	11:P4:202:CYC:CMD	1.85	1.06
2:J5:84:CYS:HA	11:J5:201:CYC:HAC1	1.34	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:84:CYS:CB	11:B6:201:CYC:CAC	2.24	1.06
2:F6:111:LEU:HD21	11:F6:201:CYC:HAB1	1.14	1.06
3:I6:151:GLY:HA3	11:I6:202:CYC:HMD3	1.34	1.06
2:O6:122:PHE:CE2	11:O6:201:CYC:CAA	2.33	1.06
3:R6:57:ARG:NH1	2:S6:122:PHE:CZ	2.23	1.06
2:W6:83:LYS:NZ	11:W6:201:CYC:O2A	1.89	1.06
2:B8:27:LEU:CD1	3:C8:38:SER:HB2	1.74	1.06
3:K2:153:CYS:HB2	11:K2:202:CYC:HBC2	1.33	1.06
3:P2:145:PRO:HB3	11:P2:202:CYC:HMC3	1.10	1.06
8:W3:81:CYS:SG	11:W3:1001:CYC:CAC	2.42	1.06
1:A4:215:PRO:HB2	1:A5:203:PHE:HD1	1.17	1.06
2:D4:24:LEU:HD11	2:L4:152:ASN:HD21	1.19	1.06
2:W4:83:LYS:NZ	11:W4:201:CYC:H2A	1.52	1.06
3:X4:139:VAL:O	3:X4:143:MET:N	1.89	1.06
2:J5:94:MET:HE3	11:J5:201:CYC:HBB1	1.37	1.06
11:C6:203:CYC:HAA2	2:D6:122:PHE:HE2	1.02	1.06
2:Q6:83:LYS:NZ	11:Q6:201:CYC:O2A	1.89	1.06
2:L8:149:GLU:CG	2:L8:153:TYR:CE2	2.32	1.06
2:O8:22:THR:CG2	2:W8:103:GLY:HA2	1.86	1.06
2:S8:36:PHE:CZ	2:S8:149:GLU:OE1	2.08	1.06
2:J1:61:SER:HB3	2:J8:61:SER:HA	1.07	1.06
2:O2:83:LYS:NZ	11:T2:201:CYC:O2A	1.89	1.06
2:S2:84:CYS:CB	11:S2:201:CYC:CAC	2.24	1.06
2:B4:64:PRO:HB3	2:J5:138:ALA:CB	1.86	1.06
3:G4:82:CYS:SG	11:G4:202:CYC:HAC2	1.93	1.06
3:P4:40:ALA:HB2	3:P4:156:LEU:CD1	1.85	1.06
3:C6:57:ARG:HH12	11:C6:203:CYC:CGA	1.67	1.06
2:F6:122:PHE:HE2	11:F6:201:CYC:HAA2	1.02	1.06
2:O6:83:LYS:NZ	11:O6:201:CYC:O2A	1.89	1.06
11:R6:202:CYC:O2A	2:S6:83:LYS:NZ	1.89	1.06
3:M8:137:ALA:O	3:M8:141:ILE:HG13	1.54	1.06
2:O8:111:LEU:HD21	11:O8:201:CYC:HAB1	1.38	1.06
3:P8:151:GLY:HA3	11:P8:202:CYC:CMD	1.85	1.06
2:U8:149:GLU:HG2	2:U8:153:TYR:HE2	1.19	1.06
3:X8:57:ARG:NH1	11:Y8:201:CYC:O2D	1.87	1.06
2:U1:94:MET:HE3	11:U1:201:CYC:HBB1	1.37	1.05
3:E2:77:ARG:NH1	11:E2:201:CYC:O1D	1.89	1.05
2:H2:83:LYS:NZ	11:H2:201:CYC:O2A	1.89	1.05
2:W2:83:LYS:NZ	11:W2:201:CYC:O2A	1.89	1.05
7:Z3:117:LYS:NZ	7:H7:113:ARG:HH12	1.47	1.05
7:d3:52:LYS:CE	1:A6:201:ARG:HG3	1.86	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:43:ARG:HH22	3:C4:148:VAL:CG1	1.58	1.05
2:U4:83:LYS:NZ	11:U4:201:CYC:H2A	1.54	1.05
2:U4:111:LEU:HD21	11:U4:201:CYC:HAB1	1.38	1.05
2:Y4:111:LEU:HD21	11:Y4:201:CYC:HAB1	1.38	1.05
11:P5:202:CYC:HAB2	2:W5:149:GLU:OE2	1.54	1.05
2:H6:83:LYS:NZ	11:H6:201:CYC:O2A	1.89	1.05
2:J6:83:LYS:NZ	11:J6:201:CYC:O2A	1.89	1.05
3:P6:33:GLU:CA	3:P6:36:LYS:HE2	1.86	1.05
3:X6:77:ARG:NH1	11:X6:201:CYC:O1D	1.90	1.05
3:P8:40:ALA:HB2	3:P8:156:LEU:CD1	1.85	1.05
3:R8:51:ILE:HD11	3:R8:141:ILE:HD12	1.32	1.05
2:S8:33:GLN:CG	2:Y8:25:GLN:NE2	2.17	1.05
11:E2:203:CYC:O2A	2:F2:83:LYS:NZ	1.89	1.05
11:N2:302:CYC:O1D	3:T2:77:ARG:NH1	1.89	1.05
3:P2:151:GLY:HA3	11:P2:202:CYC:HMD1	1.07	1.05
2:S2:83:LYS:NZ	11:S2:201:CYC:O2A	1.89	1.05
7:w3:70:GLY:N	7:O7:64:ASP:OD2	1.89	1.05
2:O4:21:ASN:CA	2:W4:152:ASN:HD21	1.69	1.05
2:S4:111:LEU:HD21	11:S4:201:CYC:HAB1	1.38	1.05
2:S5:84:CYS:HA	11:S5:201:CYC:HAC1	1.34	1.05
2:U5:94:MET:HE3	11:U5:201:CYC:HBB1	1.37	1.05
11:V5:202:CYC:HBB1	2:W5:94:MET:HE3	1.37	1.05
3:C6:77:ARG:NH1	11:C6:201:CYC:O1D	1.89	1.05
11:C6:203:CYC:O2A	2:D6:83:LYS:NZ	1.89	1.05
3:P6:145:PRO:HB3	11:P6:202:CYC:HMC3	1.10	1.05
2:S8:111:LEU:HD21	11:S8:201:CYC:HAB1	1.38	1.05
2:F1:94:MET:HE3	11:F1:201:CYC:HBB1	1.37	1.05
3:M1:77:ARG:NH1	11:M1:201:CYC:O1D	1.90	1.05
11:I2:203:CYC:O2A	2:J2:83:LYS:NZ	1.89	1.05
3:K2:77:ARG:NH1	11:K2:201:CYC:O1D	1.89	1.05
2:O2:84:CYS:CB	11:T2:201:CYC:CAC	2.24	1.05
7:o3:75:GLU:CD	1:A5:223:ARG:HG2	1.81	1.05
2:Q5:94:MET:HE3	11:Q5:201:CYC:HBB1	1.37	1.05
3:I6:1:MET:HE2	3:I6:108:ARG:HH21	1.15	1.05
2:Y6:83:LYS:NZ	11:Y6:201:CYC:O2A	1.89	1.05
2:F8:103:GLY:HA2	2:J8:22:THR:HG23	1.33	1.05
2:O8:25:GLN:HE21	2:W8:33:GLN:HG3	0.88	1.05
2:U8:111:LEU:HD21	11:U8:201:CYC:HAB1	1.38	1.05
2:U8:150:THR:HG21	2:U8:154:ILE:HD11	1.10	1.05
3:I1:36:LYS:NZ	11:I1:202:CYC:O1D	1.90	1.05
11:X1:203:CYC:HAC1	2:Y1:84:CYS:HA	1.34	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K2:203:CYC:CAC	2:L2:84:CYS:SG	2.45	1.05
3:T2:57:ARG:NH1	11:T2:201:CYC:O1A	1.88	1.05
11:X2:203:CYC:O2A	2:Y2:83:LYS:NZ	1.89	1.05
7:I3:151:ALA:CB	7:A7:20:PRO:CB	2.34	1.05
1:A4:203:PHE:HE1	1:A5:216:ALA:HA	0.94	1.05
2:D4:111:LEU:HD21	11:D4:201:CYC:HAB1	1.38	1.05
2:F4:57:GLN:NE2	3:G6:150:SER:HB3	1.69	1.05
2:S4:33:GLN:CG	2:Y4:25:GLN:NE2	2.17	1.05
2:U4:150:THR:HG21	2:U4:154:ILE:HD11	1.10	1.05
3:V4:139:VAL:O	3:V4:142:VAL:HG13	1.55	1.05
3:Z4:143:MET:HA	3:Z4:143:MET:HE3	1.35	1.05
3:K5:88:ILE:HD13	4:N5:251:TYR:OH	1.52	1.05
3:V5:77:ARG:NH1	11:V5:201:CYC:O1D	1.90	1.05
2:B6:83:LYS:NZ	11:B6:201:CYC:O2A	1.89	1.05
2:Q6:84:CYS:CB	11:Q6:201:CYC:CAC	2.24	1.05
3:X6:40:ALA:HB2	11:X6:202:CYC:HBC3	1.36	1.05
7:Q7:63:PRO:HD3	1:A8:196:TRP:HH2	0.95	1.05
3:C8:42:SER:HA	3:C8:45:THR:CG2	1.86	1.05
2:L8:149:GLU:HG2	2:L8:153:TYR:CD2	1.90	1.05
2:S8:140:HIS:ND1	2:S8:142:LEU:CG	2.19	1.05
3:V8:57:ARG:NH1	11:W8:201:CYC:O2D	1.89	1.05
2:Y8:111:LEU:HD21	11:Y8:201:CYC:HAB1	1.38	1.05
3:C1:36:LYS:NZ	11:C1:201:CYC:O1D	1.90	1.05
3:I2:1:MET:HE2	3:I2:108:ARG:HH21	1.15	1.05
3:I2:151:GLY:HA3	11:I2:202:CYC:HMD3	1.34	1.05
3:M2:77:ARG:NH1	11:M2:201:CYC:O1D	1.89	1.05
3:V2:77:ARG:NH1	11:V2:201:CYC:O1D	1.90	1.05
3:X2:110:LEU:HD22	3:X2:170:ALA:HB3	1.33	1.05
5:13:557:ILE:HD11	8:I7:83:ARG:CZ	1.86	1.05
7:o3:68:PRO:CB	1:A4:196:TRP:NE1	2.18	1.05
3:C4:42:SER:HA	3:C4:45:THR:CG2	1.86	1.05
2:D4:140:HIS:HE1	2:D4:142:LEU:HB2	1.15	1.05
3:I4:82:CYS:SG	11:I4:201:CYC:HAC2	1.93	1.05
2:F5:28:TYR:OH	11:G5:202:CYC:NB	1.90	1.05
3:T5:36:LYS:NZ	11:T5:201:CYC:O1D	1.90	1.05
2:U5:84:CYS:HA	11:U5:201:CYC:HAC1	1.34	1.05
11:A6:301:CYC:O1D	3:G6:77:ARG:NH1	1.89	1.05
3:C6:57:ARG:NH2	11:C6:203:CYC:CGD	2.19	1.05
3:K6:77:ARG:NH1	11:K6:201:CYC:O1D	1.89	1.05
2:U6:84:CYS:CB	11:U6:201:CYC:CAC	2.24	1.05
8:D7:81:CYS:SG	11:D7:1001:CYC:NC	2.30	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:V7:1001:CYC:O1A	8:a7:66:THR:CG2	2.03	1.05
2:B8:111:LEU:HD21	11:G8:201:CYC:HAB1	1.38	1.05
3:X8:139:VAL:O	3:X8:143:MET:N	1.89	1.05
3:C1:151:GLY:HA3	11:C1:201:CYC:CMD	1.87	1.04
11:D1:201:CYC:CMD	3:E1:151:GLY:HA3	1.87	1.04
2:H1:94:MET:HE3	11:H1:201:CYC:HBB1	1.37	1.04
2:L1:94:MET:HE3	11:L1:201:CYC:HBB1	1.37	1.04
3:P1:36:LYS:NZ	11:P1:202:CYC:O1D	1.90	1.04
3:C2:77:ARG:NH1	11:C2:201:CYC:O1D	1.89	1.04
2:D2:83:LYS:NZ	11:D2:201:CYC:O2A	1.89	1.04
11:I2:203:CYC:CAC	2:J2:84:CYS:SG	2.45	1.04
2:Q2:83:LYS:NZ	11:Q2:201:CYC:O2A	1.89	1.04
2:S2:84:CYS:SG	11:S2:201:CYC:CAC	2.45	1.04
11:X2:203:CYC:CAC	2:Y2:84:CYS:SG	2.45	1.04
3:Z2:77:ARG:NH1	11:Z2:202:CYC:O1D	1.90	1.04
7:Z3:25:ARG:HD2	7:L7:25:ARG:HE	0.94	1.04
7:o3:77:MET:HE2	1:A4:201:ARG:HB3	1.08	1.04
2:B4:8:ALA:HB1	2:B4:23:GLU:HG3	1.39	1.04
3:K4:82:CYS:SG	11:K4:201:CYC:HAC2	1.93	1.04
2:L4:111:LEU:HD21	11:L4:201:CYC:HAB1	1.38	1.04
2:O4:22:THR:CG2	2:W4:103:GLY:HA2	1.86	1.04
2:U4:150:THR:CG2	2:U4:154:ILE:CG1	2.33	1.04
3:C5:151:GLY:HA3	11:C5:201:CYC:CMD	1.87	1.04
3:G5:151:GLY:HA3	11:G5:202:CYC:CMD	1.87	1.04
3:K5:151:GLY:HA3	11:K5:202:CYC:CMD	1.87	1.04
2:O5:94:MET:HE3	11:O5:201:CYC:HBB1	1.37	1.04
2:B6:24:LEU:CD1	11:C6:202:CYC:HBB1	1.85	1.04
11:C6:203:CYC:CAC	2:D6:84:CYS:SG	2.45	1.04
2:H6:84:CYS:SG	11:H6:201:CYC:CAC	2.45	1.04
2:O6:84:CYS:SG	11:O6:201:CYC:CAC	2.45	1.04
2:Q6:84:CYS:SG	11:Q6:201:CYC:CAC	2.45	1.04
2:B8:8:ALA:HB1	2:B8:23:GLU:HG3	1.39	1.04
2:F8:103:GLY:CA	2:J8:22:THR:CG2	2.35	1.04
3:M8:51:ILE:HD11	3:M8:141:ILE:HD11	1.37	1.04
2:O8:21:ASN:CA	2:W8:152:ASN:HD21	1.69	1.04
3:P8:82:CYS:SG	11:P8:201:CYC:HAC2	1.93	1.04
11:P8:203:CYC:HAB1	2:Q8:111:LEU:HD21	1.38	1.04
3:T8:51:ILE:HD11	3:T8:141:ILE:HD11	1.36	1.04
3:Z8:143:MET:HE3	3:Z8:143:MET:HA	1.35	1.04
11:A1:301:CYC:O1D	3:C1:77:ARG:NH1	1.90	1.04
2:B1:94:MET:HE3	11:B1:201:CYC:HBB1	1.37	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F1:28:TYR:OH	11:G1:202:CYC:NB	1.90	1.04
3:K1:36:LYS:NZ	11:K1:202:CYC:O1D	1.90	1.04
3:K1:77:ARG:NH1	11:K1:201:CYC:O1D	1.90	1.04
3:K1:151:GLY:HA3	11:K1:202:CYC:CMD	1.87	1.04
3:R1:57:ARG:NH1	11:S1:201:CYC:O2D	1.90	1.04
2:S1:94:MET:HE3	11:S1:201:CYC:HBB1	1.37	1.04
3:Z1:151:GLY:HA3	11:Z1:202:CYC:CMD	1.88	1.04
2:B2:84:CYS:SG	11:B2:201:CYC:CAC	2.45	1.04
3:I2:77:ARG:NH1	11:I2:201:CYC:O1D	1.89	1.04
2:O2:84:CYS:SG	11:T2:201:CYC:CAC	2.45	1.04
3:P2:77:ARG:NH1	11:P2:201:CYC:O1D	1.89	1.04
7:I3:154:ASP:OD2	8:B7:46:ALA:CB	2.06	1.04
7:q3:25:ARG:HG3	7:Z7:25:ARG:HH21	1.20	1.04
3:E4:156:LEU:HD13	11:E4:202:CYC:CBC	1.85	1.04
2:O4:111:LEU:HD21	11:O4:201:CYC:HAB1	1.38	1.04
2:Y4:151:ASN:O	2:Y4:155:ASP:HB2	1.58	1.04
3:G5:77:ARG:NH1	11:G5:201:CYC:O1D	1.90	1.04
2:H5:84:CYS:HA	11:H5:201:CYC:HAC1	1.34	1.04
3:M5:151:GLY:HA3	11:M5:202:CYC:CMD	1.87	1.04
3:P5:77:ARG:NH1	11:P5:201:CYC:O1D	1.90	1.04
3:R5:77:ARG:NH1	11:R5:201:CYC:O1D	1.90	1.04
3:Z5:151:GLY:HA3	11:Z5:202:CYC:CMD	1.88	1.04
2:B6:24:LEU:CB	11:C6:202:CYC:HBB2	1.88	1.04
2:B6:84:CYS:SG	11:B6:201:CYC:CAC	2.45	1.04
2:F6:83:LYS:NZ	11:F6:201:CYC:O2A	1.89	1.04
2:L6:83:LYS:NZ	11:L6:201:CYC:O2A	1.89	1.04
3:M6:77:ARG:NH1	11:M6:201:CYC:O1D	1.89	1.04
8:F7:81:CYS:SG	11:F7:1001:CYC:NC	2.30	1.04
8:R7:81:CYS:SG	11:R7:1001:CYC:NC	2.30	1.04
8:W7:81:CYS:SG	11:W7:1001:CYC:NC	2.30	1.04
8:a7:81:CYS:SG	11:a7:1001:CYC:NC	2.30	1.04
3:M8:82:CYS:SG	11:M8:202:CYC:HAC2	1.93	1.04
2:S8:32:ARG:HA	2:S8:32:ARG:HE	1.15	1.04
3:V8:82:CYS:SG	11:V8:201:CYC:HAC2	1.93	1.04
3:G1:151:GLY:HA3	11:G1:202:CYC:CMD	1.87	1.04
3:I1:151:GLY:HA3	11:I1:202:CYC:CMD	1.87	1.04
3:R1:36:LYS:NZ	11:R1:202:CYC:O1D	1.90	1.04
11:U1:202:CYC:CMD	3:V1:151:GLY:HA3	1.87	1.04
3:X1:36:LYS:NZ	11:X1:202:CYC:O1D	1.90	1.04
3:Z1:36:LYS:NZ	11:Z1:202:CYC:O1D	1.90	1.04
11:E2:203:CYC:CAC	2:F2:84:CYS:SG	2.45	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U2:84:CYS:SG	11:Z2:201:CYC:CAC	2.45	1.04
2:B4:19:LEU:CD2	3:C4:95:TYR:CE1	2.41	1.04
2:F4:57:GLN:HE22	3:G6:150:SER:HB3	1.10	1.04
2:H4:111:LEU:HD21	11:M4:201:CYC:HAB1	1.39	1.04
2:S4:19:LEU:HD21	3:T4:95:TYR:CD1	1.92	1.04
2:S4:140:HIS:ND1	2:S4:142:LEU:CG	2.19	1.04
3:V4:57:ARG:NH1	11:W4:201:CYC:O2D	1.89	1.04
11:D5:201:CYC:O1D	3:E5:36:LYS:NZ	1.90	1.04
11:U5:202:CYC:O1D	3:V5:36:LYS:NZ	1.90	1.04
3:Z5:77:ARG:NH1	11:Z5:201:CYC:O1D	1.90	1.04
2:L6:84:CYS:SG	11:L6:201:CYC:CAC	2.45	1.04
3:P6:77:ARG:NH1	11:P6:201:CYC:O1D	1.89	1.04
2:Y6:84:CYS:SG	11:Y6:201:CYC:CAC	2.45	1.04
3:C8:139:VAL:O	3:C8:143:MET:N	1.90	1.04
3:E8:153:CYS:SG	11:E8:202:CYC:HBC2	1.98	1.04
2:L8:111:LEU:HD21	11:L8:201:CYC:HAB1	1.38	1.04
3:M1:36:LYS:NZ	11:M1:202:CYC:O1D	1.90	1.04
3:M1:151:GLY:HA3	11:M1:202:CYC:CMD	1.87	1.04
2:U1:84:CYS:HA	11:U1:201:CYC:HAC1	1.34	1.04
2:B2:24:LEU:CB	11:C2:202:CYC:HBB2	1.88	1.04
11:I2:203:CYC:CAC	2:J2:84:CYS:CB	2.24	1.04
2:Q2:84:CYS:SG	11:Q2:201:CYC:CAC	2.45	1.04
7:I3:69:GLY:C	7:C7:64:ASP:OD2	2.00	1.04
7:X3:20:PRO:HB3	7:H7:151:ALA:HB1	1.08	1.04
3:E4:82:CYS:SG	11:E4:201:CYC:HAC2	1.93	1.04
3:I4:36:LYS:NZ	3:I4:152:ASP:O	1.90	1.04
3:M4:82:CYS:SG	11:M4:202:CYC:HAC2	1.93	1.04
11:A5:302:CYC:O1D	3:E5:77:ARG:NH1	1.90	1.04
11:N5:301:CYC:O1D	3:T5:77:ARG:NH1	1.90	1.04
3:R5:36:LYS:NZ	11:R5:202:CYC:O1D	1.90	1.04
3:R5:151:GLY:HA3	11:R5:202:CYC:CMD	1.87	1.04
3:X5:77:ARG:NH1	11:X5:201:CYC:O1D	1.90	1.04
3:X5:151:GLY:HA3	11:X5:202:CYC:CMD	1.87	1.04
2:F6:84:CYS:SG	11:F6:201:CYC:CAC	2.45	1.04
2:J6:84:CYS:SG	11:J6:201:CYC:CAC	2.45	1.04
11:R6:202:CYC:CAC	2:S6:84:CYS:SG	2.45	1.04
8:T7:81:CYS:SG	11:T7:1001:CYC:NC	2.30	1.04
3:C8:43:ARG:HH22	3:C8:148:VAL:CG1	1.58	1.04
11:I8:203:CYC:HAB1	2:J8:111:LEU:HD21	1.38	1.04
3:X8:51:ILE:HD11	3:X8:141:ILE:HD12	1.07	1.04
3:G1:36:LYS:NZ	11:G1:202:CYC:O1D	1.90	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X1:77:ARG:NH1	11:X1:201:CYC:O1D	1.90	1.04
2:D2:84:CYS:SG	11:D2:201:CYC:CAC	2.45	1.04
3:P2:36:LYS:CD	11:P2:202:CYC:O1D	2.03	1.04
2:W2:84:CYS:SG	11:W2:201:CYC:CAC	2.45	1.04
7:q3:113:ARG:NH1	7:V7:117:LYS:HD3	1.72	1.04
7:u3:3:ILE:HD11	7:O7:25:ARG:HH22	1.19	1.04
7:u3:69:GLY:C	7:Q7:64:ASP:OD2	2.01	1.04
3:M4:139:VAL:O	3:M4:142:VAL:HG13	1.58	1.04
3:X4:82:CYS:SG	11:X4:201:CYC:HAC2	1.93	1.04
2:H6:84:CYS:CB	11:H6:201:CYC:CAC	2.24	1.04
3:I6:77:ARG:NH1	11:I6:201:CYC:O1D	1.90	1.04
11:N6:301:CYC:O1D	3:R6:77:ARG:NH1	1.89	1.04
11:N6:302:CYC:O1D	3:T6:77:ARG:NH1	1.89	1.04
2:U6:84:CYS:SG	11:U6:201:CYC:CAC	2.45	1.04
2:W6:84:CYS:SG	11:W6:201:CYC:CAC	2.45	1.04
8:B7:81:CYS:SG	11:B7:1001:CYC:NC	2.30	1.04
8:I7:81:CYS:SG	11:I7:1001:CYC:NC	2.30	1.04
3:I1:77:ARG:NH1	11:I1:201:CYC:O1D	1.90	1.03
3:T1:151:GLY:HA3	11:T1:201:CYC:CMD	1.87	1.03
11:U1:202:CYC:O1D	3:V1:36:LYS:NZ	1.90	1.03
3:E4:40:ALA:HB1	3:E4:156:LEU:HD11	1.36	1.03
2:J4:64:PRO:CG	2:J5:58:ALA:HA	1.88	1.03
3:V4:51:ILE:HD11	3:V4:141:ILE:HD12	1.41	1.03
3:I5:77:ARG:NH1	11:I5:201:CYC:O1D	1.90	1.03
2:L5:94:MET:HE3	11:L5:201:CYC:HBB1	1.37	1.03
3:P5:151:GLY:HA3	11:P5:202:CYC:CMD	1.87	1.03
2:S5:94:MET:HE3	11:S5:201:CYC:HBB1	1.38	1.03
2:J6:84:CYS:CB	11:J6:201:CYC:CAC	2.24	1.03
3:K6:153:CYS:HB2	11:K6:202:CYC:HBC2	1.33	1.03
3:P6:151:GLY:CA	11:P6:202:CYC:HMD3	1.84	1.03
3:V6:77:ARG:NH1	11:V6:201:CYC:O1D	1.90	1.03
8:Y7:81:CYS:SG	11:Y7:1001:CYC:NC	2.30	1.03
2:D8:111:LEU:HD21	11:D8:201:CYC:HAB1	1.38	1.03
2:H8:111:LEU:HD21	11:M8:201:CYC:HAB1	1.38	1.03
3:I8:82:CYS:SG	11:I8:201:CYC:HAC2	1.93	1.03
3:G1:77:ARG:NH1	11:G1:201:CYC:O1D	1.90	1.03
3:P1:77:ARG:NH1	11:P1:201:CYC:O1D	1.90	1.03
3:P1:151:GLY:HA3	11:P1:202:CYC:CMD	1.87	1.03
11:A2:301:CYC:O1D	3:G2:77:ARG:NH1	1.89	1.03
3:C4:139:VAL:O	3:C4:143:MET:N	1.90	1.03
3:G4:143:MET:CE	3:G4:157:GLN:OE1	2.06	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K4:151:GLY:HA3	11:K4:202:CYC:HMD3	1.38	1.03
3:Z4:82:CYS:SG	11:Z4:201:CYC:HAC2	1.93	1.03
3:T5:151:GLY:HA3	11:T5:201:CYC:CMD	1.87	1.03
3:Z6:77:ARG:NH1	11:Z6:201:CYC:O1D	1.90	1.03
8:M7:81:CYS:SG	11:M7:1001:CYC:NC	2.30	1.03
8:P7:81:CYS:SG	11:P7:1001:CYC:NC	2.30	1.03
2:S8:19:LEU:HD21	3:T8:95:TYR:CD1	1.92	1.03
11:C1:202:CYC:HBB1	2:D1:94:MET:HE3	1.37	1.03
3:R1:77:ARG:NH1	11:R1:201:CYC:O1D	1.90	1.03
2:H2:84:CYS:SG	11:H2:201:CYC:CAC	2.45	1.03
8:e3:17:LYS:CG	1:A6:207:ASP:OD2	2.06	1.03
7:u3:3:ILE:CD1	7:O7:25:ARG:NH2	2.22	1.03
11:A5:301:CYC:O1D	3:C5:77:ARG:NH1	1.90	1.03
2:B5:94:MET:HE3	11:B5:201:CYC:HBB1	1.37	1.03
11:U5:202:CYC:CMD	3:V5:151:GLY:HA3	1.87	1.03
11:C6:203:CYC:CAC	2:D6:84:CYS:CB	2.24	1.03
6:b7:17:ARG:CD	6:b7:21:GLU:OE2	2.04	1.03
2:B8:19:LEU:CD2	3:C8:95:TYR:CE1	2.41	1.03
2:S8:36:PHE:CE1	2:S8:149:GLU:OE1	2.11	1.03
3:R1:151:GLY:HA3	11:R1:202:CYC:CMD	1.87	1.03
3:X1:151:GLY:HA3	11:X1:202:CYC:CMD	1.87	1.03
3:Z1:77:ARG:NH1	11:Z1:201:CYC:O1D	1.90	1.03
11:N2:301:CYC:O1D	3:R2:77:ARG:NH1	1.89	1.03
3:X2:40:ALA:HB2	11:X2:202:CYC:HBC3	1.36	1.03
7:X3:3:ILE:CD1	7:H7:25:ARG:NH2	2.21	1.03
7:d3:52:LYS:HG2	1:A6:200:VAL:HG12	1.37	1.03
11:A4:301:CYC:HAC2	3:C4:82:CYS:SG	1.93	1.03
2:U4:24:LEU:CB	11:V4:202:CYC:HBB1	1.89	1.03
3:K5:36:LYS:NZ	11:K5:202:CYC:O1D	1.90	1.03
3:K5:77:ARG:NH1	11:K5:201:CYC:O1D	1.90	1.03
3:M5:77:ARG:NH1	11:M5:201:CYC:O1D	1.90	1.03
3:X5:36:LYS:NZ	11:X5:202:CYC:O1D	1.90	1.03
3:E6:77:ARG:NH1	11:E6:201:CYC:O1D	1.89	1.03
3:E8:154:SER:O	3:E8:158:GLN:HB2	1.59	1.03
3:G8:143:MET:CE	3:G8:157:GLN:OE1	2.06	1.03
3:M8:139:VAL:O	3:M8:142:VAL:HG13	1.58	1.03
11:A1:302:CYC:O1D	3:E1:77:ARG:NH1	1.90	1.03
11:D1:201:CYC:O1D	3:E1:36:LYS:NZ	1.90	1.03
11:N1:301:CYC:O1D	3:T1:77:ARG:NH1	1.90	1.03
2:Q1:94:MET:HE3	11:Q1:201:CYC:HBB1	1.37	1.03
3:X2:77:ARG:NH1	11:X2:201:CYC:O1D	1.90	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E4:153:CYS:SG	11:E4:202:CYC:HBC2	1.98	1.03
3:M4:51:ILE:HD11	3:M4:141:ILE:HD11	1.37	1.03
2:S4:36:PHE:CE1	2:S4:149:GLU:OE1	2.11	1.03
2:Y4:86:ARG:NH2	11:Y4:201:CYC:H2A	1.57	1.03
3:I5:36:LYS:NZ	11:I5:202:CYC:O1D	1.90	1.03
3:I5:151:GLY:HA3	11:I5:202:CYC:CMD	1.87	1.03
3:M5:36:LYS:NZ	11:M5:202:CYC:O1D	1.90	1.03
3:R5:57:ARG:NH1	11:S5:201:CYC:O2D	1.90	1.03
3:G8:143:MET:HE2	3:G8:157:GLN:CD	1.84	1.03
3:K8:82:CYS:SG	11:K8:201:CYC:HAC2	1.93	1.03
2:Q8:24:LEU:HD11	2:U8:152:ASN:HD21	1.22	1.03
2:W8:36:PHE:CZ	2:W8:149:GLU:OE2	2.11	1.03
3:X8:82:CYS:SG	11:X8:201:CYC:HAC2	1.93	1.03
11:G2:201:CYC:HBD1	11:G2:201:CYC:HHA	1.41	1.02
11:T2:202:CYC:HBD1	11:T2:202:CYC:HHA	1.41	1.02
11:Z2:203:CYC:HBD1	11:Z2:203:CYC:HHA	1.41	1.02
7:o3:3:ILE:CD1	7:V7:25:ARG:HH22	1.70	1.02
1:A4:214:ASP:OD1	1:A4:215:PRO:HD2	1.56	1.02
1:A4:216:ALA:HB2	1:A5:203:PHE:HZ	1.11	1.02
2:B4:111:LEU:HD21	11:G4:201:CYC:HAB1	1.38	1.02
2:F4:103:GLY:CA	2:J4:22:THR:CG2	2.35	1.02
2:Q4:24:LEU:HD11	2:U4:152:ASN:HD21	1.22	1.02
11:R4:201:CYC:HBD1	11:R4:201:CYC:HHA	1.41	1.02
3:C5:36:LYS:NZ	11:C5:201:CYC:O1D	1.90	1.02
11:X5:203:CYC:HBB1	2:Y5:94:MET:HE3	1.37	1.02
3:Z5:36:LYS:NZ	11:Z5:202:CYC:O1D	1.90	1.02
11:R6:202:CYC:HAA2	2:S6:122:PHE:HE2	1.02	1.02
8:K7:81:CYS:SG	11:K7:1001:CYC:NC	2.30	1.02
7:Q7:63:PRO:HG3	1:A8:196:TRP:CZ3	1.92	1.02
1:A8:203:PHE:HE2	1:A8:204:ARG:NH2	1.55	1.02
3:M8:51:ILE:CD1	3:M8:141:ILE:HD12	1.89	1.02
2:O1:94:MET:HE3	11:O1:201:CYC:HBB1	1.37	1.02
3:T1:36:LYS:NZ	11:T1:201:CYC:O1D	1.90	1.02
3:E2:57:ARG:NH2	11:E2:203:CYC:O2D	1.92	1.02
11:K2:203:CYC:CAB	2:L2:111:LEU:HD21	1.89	1.02
7:I3:113:ARG:NH1	7:C7:117:LYS:NZ	2.07	1.02
8:e3:17:LYS:CD	1:A6:207:ASP:OD2	2.07	1.02
3:C4:153:CYS:CB	11:C4:201:CYC:HAC2	1.89	1.02
3:G4:143:MET:HE2	3:G4:157:GLN:CD	1.84	1.02
3:I4:139:VAL:O	3:I4:142:VAL:CG1	2.06	1.02
3:T4:139:VAL:O	3:T4:143:MET:N	1.92	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W4:36:PHE:CZ	2:W4:149:GLU:OE2	2.11	1.02
3:P5:36:LYS:NZ	11:P5:202:CYC:O1D	1.90	1.02
11:E6:202:CYC:HBD1	11:E6:202:CYC:HHA	1.41	1.02
3:I6:57:ARG:HA	3:I6:57:ARG:HE	1.19	1.02
2:Q6:111:LEU:HD21	11:Q6:201:CYC:CAB	1.89	1.02
11:X6:202:CYC:HBD1	11:X6:202:CYC:HHA	1.41	1.02
2:Y6:111:LEU:HD21	11:Y6:201:CYC:CAB	1.89	1.02
3:C8:137:ALA:O	3:C8:141:ILE:HG13	1.58	1.02
1:A1:214:ASP:OD2	8:z3:67:ARG:HD3	1.59	1.02
3:V1:77:ARG:NH1	11:V1:201:CYC:O1D	1.90	1.02
2:B2:24:LEU:HD13	11:C2:202:CYC:HBB3	1.03	1.02
3:K2:39:ASP:OD2	11:K2:202:CYC:HHD	1.59	1.02
11:M2:202:CYC:HBD1	11:M2:202:CYC:HHA	1.41	1.02
7:I3:6:LYS:HZ3	7:A7:10:ASN:ND2	1.56	1.02
1:A4:214:ASP:HB3	1:A4:217:LEU:HD12	1.40	1.02
3:C4:42:SER:O	3:C4:45:THR:CG2	2.07	1.02
3:C4:145:PRO:HB3	11:C4:201:CYC:HMC3	1.41	1.02
2:F4:103:GLY:HA2	2:J4:22:THR:HG23	1.33	1.02
2:Q4:24:LEU:HB2	11:R4:201:CYC:CBB	1.89	1.02
3:T4:151:GLY:CA	11:T4:202:CYC:CMD	2.36	1.02
3:X4:140:ALA:O	3:X4:144:ASP:OD2	1.78	1.02
3:G5:36:LYS:NZ	11:G5:202:CYC:O1D	1.90	1.02
11:R6:202:CYC:CAB	2:S6:111:LEU:HD21	1.89	1.02
2:W6:111:LEU:HD21	11:W6:201:CYC:CAB	1.89	1.02
2:Y6:84:CYS:CB	11:Y6:201:CYC:CAC	2.24	1.02
11:Z6:202:CYC:HBD1	11:Z6:202:CYC:HHA	1.41	1.02
2:D8:33:GLN:CG	2:L8:25:GLN:NE2	2.21	1.02
3:I8:36:LYS:NZ	3:I8:152:ASP:O	1.90	1.02
3:T8:139:VAL:HA	3:T8:142:VAL:CG1	1.89	1.02
3:V8:51:ILE:HD11	3:V8:141:ILE:HD12	1.41	1.02
2:Y8:151:ASN:O	2:Y8:155:ASP:HB2	1.58	1.02
11:I2:203:CYC:CAB	2:J2:111:LEU:HD21	1.89	1.02
3:P2:33:GLU:HA	3:P2:36:LYS:HG3	1.39	1.02
3:V2:148:VAL:CG1	11:V2:202:CYC:C1D	2.37	1.02
5:03:725:VAL:HG11	7:Q7:105:GLU:OE2	1.60	1.02
7:o3:79:ALA:N	1:A5:222:ALA:HB1	1.74	1.02
1:A4:216:ALA:N	1:A5:203:PHE:CE1	2.26	1.02
2:D4:33:GLN:CG	2:L4:25:GLN:NE2	2.21	1.02
11:P4:203:CYC:HAB1	2:Q4:111:LEU:HD21	1.38	1.02
3:V4:82:CYS:SG	11:V4:201:CYC:HAC2	1.93	1.02
11:D5:201:CYC:CMD	3:E5:151:GLY:HA3	1.87	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R5:57:ARG:NH2	11:S5:201:CYC:O2D	1.92	1.02
11:M6:202:CYC:HBD1	11:M6:202:CYC:HHA	1.41	1.02
3:C8:42:SER:O	3:C8:45:THR:CG2	2.07	1.02
3:C8:153:CYS:CB	11:C8:201:CYC:HAC2	1.89	1.02
3:T8:139:VAL:O	3:T8:143:MET:N	1.92	1.02
3:T8:151:GLY:CA	11:T8:202:CYC:CMD	2.36	1.02
2:W8:83:LYS:NZ	11:W8:201:CYC:H2A	1.57	1.02
2:Y8:149:GLU:C	2:Y8:153:TYR:HD2	1.67	1.02
3:R1:57:ARG:NH2	11:S1:201:CYC:O2D	1.92	1.02
11:E2:202:CYC:HBD1	11:E2:202:CYC:HHA	1.41	1.02
2:H2:111:LEU:HD23	11:H2:201:CYC:HAB2	1.42	1.02
5:03:561:ASN:HD21	11:B7:1001:CYC:HAA1	1.19	1.02
11:N4:301:CYC:HAC2	3:R4:82:CYS:SG	1.93	1.02
11:N4:301:CYC:O1A	3:R4:77:ARG:NH2	1.93	1.02
11:X4:202:CYC:HBD1	11:X4:202:CYC:HHA	1.41	1.02
3:Z4:139:VAL:O	3:Z4:142:VAL:HG13	1.60	1.02
2:O6:111:LEU:HD21	11:O6:201:CYC:CAB	1.89	1.02
11:R6:202:CYC:CAC	2:S6:84:CYS:CB	2.24	1.02
3:V6:148:VAL:CG1	11:V6:202:CYC:C1D	2.37	1.02
3:I8:139:VAL:O	3:I8:142:VAL:CG1	2.06	1.02
11:N8:301:CYC:O1A	3:R8:77:ARG:NH2	1.93	1.02
3:P8:154:SER:O	3:P8:158:GLN:HB2	1.60	1.02
11:E2:203:CYC:HAB2	2:F2:111:LEU:HD23	1.42	1.01
3:P2:151:GLY:CA	11:P2:202:CYC:HMD2	1.90	1.01
5:13:524:SER:N	7:J7:106:GLU:OE2	1.93	1.01
10:m3:81:CYS:HG	11:m3:201:CYC:HBC2	1.19	1.01
3:E4:77:ARG:NH2	11:E4:201:CYC:O1A	1.93	1.01
3:I4:77:ARG:NH2	11:I4:201:CYC:O1A	1.93	1.01
11:I4:203:CYC:HAB1	2:J4:111:LEU:HD21	1.38	1.01
2:Y4:149:GLU:C	2:Y4:153:TYR:HD2	1.67	1.01
2:J6:111:LEU:HD23	11:J6:201:CYC:HAB2	1.42	1.01
2:L6:111:LEU:HD23	11:L6:201:CYC:HAB2	1.42	1.01
11:E8:203:CYC:HAB1	2:F8:111:LEU:HD21	1.38	1.01
3:P8:77:ARG:NH2	11:P8:201:CYC:O1D	1.94	1.01
11:V8:202:CYC:HBD1	11:V8:202:CYC:HHA	1.41	1.01
3:Z8:139:VAL:O	3:Z8:142:VAL:HG13	1.60	1.01
2:S1:149:GLU:OE2	11:Z1:202:CYC:HAB2	1.60	1.01
11:V1:202:CYC:HBB1	2:W1:94:MET:HE3	1.37	1.01
2:D2:111:LEU:HD23	11:D2:201:CYC:HAB2	1.42	1.01
3:P2:33:GLU:CA	3:P2:36:LYS:HG2	1.88	1.01
7:I3:64:ASP:OD2	7:C7:70:GLY:N	1.93	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o3:68:PRO:HB2	1:A4:196:TRP:NE1	1.75	1.01
3:K4:77:ARG:NH2	11:K4:201:CYC:O1A	1.93	1.01
3:M4:51:ILE:CD1	3:M4:141:ILE:HD12	1.89	1.01
2:O4:25:GLN:HE21	2:W4:33:GLN:HG3	0.88	1.01
3:R4:67:ILE:HD12	11:S4:201:CYC:O2A	1.60	1.01
2:H5:94:MET:HE3	11:H5:201:CYC:HBB1	1.37	1.01
11:P6:202:CYC:HBD1	11:P6:202:CYC:HHA	1.41	1.01
11:R6:201:CYC:HBD1	11:R6:201:CYC:HHA	1.41	1.01
2:U6:111:LEU:HD21	11:U6:201:CYC:CAB	1.89	1.01
2:Y6:111:LEU:HD23	11:Y6:201:CYC:HAB2	1.42	1.01
7:E7:84:ASP:OD2	11:E7:1001:CYC:ND	1.93	1.01
7:L7:84:ASP:OD2	11:L7:1001:CYC:ND	1.93	1.01
7:O7:84:ASP:OD2	11:O7:1001:CYC:ND	1.93	1.01
11:O7:1001:CYC:O1A	8:T7:66:THR:CG2	2.07	1.01
7:X7:84:ASP:OD2	11:X7:1001:CYC:ND	1.93	1.01
11:C8:201:CYC:HHA	11:C8:201:CYC:HBD1	1.41	1.01
2:D8:33:GLN:HG3	2:L8:25:GLN:HE21	0.88	1.01
11:K8:202:CYC:HBD1	11:K8:202:CYC:HHA	1.41	1.01
3:P8:77:ARG:NH2	11:P8:201:CYC:O1A	1.93	1.01
2:W8:111:LEU:HD21	11:W8:201:CYC:HAB1	1.38	1.01
7:K3:25:ARG:NH2	7:E7:21:GLY:HA3	1.74	1.01
7:u3:76:GLU:CG	1:A8:204:ARG:NH2	2.04	1.01
1:A4:204:ARG:NH1	1:A5:219:LEU:HD22	1.73	1.01
3:C4:143:MET:O	11:C4:201:CYC:HMC1	1.60	1.01
3:K4:77:ARG:NH2	11:K4:201:CYC:O1D	1.94	1.01
3:P4:77:ARG:NH2	11:P4:201:CYC:O1A	1.93	1.01
11:C6:202:CYC:HBD1	11:C6:202:CYC:HHA	1.41	1.01
2:F6:111:LEU:HD21	11:F6:201:CYC:CAB	1.89	1.01
3:X6:151:GLY:N	11:X6:202:CYC:HMD2	1.74	1.01
7:A7:84:ASP:OD2	11:A7:1001:CYC:ND	1.93	1.01
7:C7:84:ASP:OD2	11:C7:1001:CYC:ND	1.93	1.01
3:G8:77:ARG:NH2	11:G8:202:CYC:O1A	1.93	1.01
11:I8:203:CYC:ND	2:J8:87:ASP:OD2	1.94	1.01
2:Q8:24:LEU:HB2	11:R8:201:CYC:CBB	1.89	1.01
3:T8:77:ARG:NH2	11:T8:201:CYC:O1A	1.93	1.01
3:T8:138:ALA:O	3:T8:142:VAL:HG12	1.60	1.01
3:X8:77:ARG:NH2	11:X8:201:CYC:O1A	1.93	1.01
2:J1:61:SER:HB2	2:J8:61:SER:C	1.85	1.01
11:X1:203:CYC:HBB1	2:Y1:94:MET:HE3	1.37	1.01
2:H2:84:CYS:CB	11:H2:201:CYC:CAC	2.24	1.01
2:H2:111:LEU:HD21	11:H2:201:CYC:CAB	1.89	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:202:CYC:HBD1	11:I2:202:CYC:HHA	1.41	1.01
5:03:525:PHE:CZ	7:C7:5:THR:OG1	2.12	1.01
7:o3:60:GLN:N	1:A5:226:GLN:NE2	2.08	1.01
7:w3:77:MET:CE	1:A5:201:ARG:CG	2.39	1.01
11:A4:301:CYC:O1A	3:C4:77:ARG:NH2	1.93	1.01
3:G4:77:ARG:NH2	11:G4:202:CYC:O1A	1.93	1.01
2:S4:140:HIS:CE1	2:S4:142:LEU:CB	2.43	1.01
3:T4:77:ARG:NH2	11:T4:201:CYC:O1D	1.94	1.01
3:V4:77:ARG:NH2	11:V4:201:CYC:O1A	1.93	1.01
3:X4:51:ILE:HD11	3:X4:141:ILE:HD12	1.07	1.01
3:X4:77:ARG:NH2	11:X4:201:CYC:O1A	1.93	1.01
11:C5:202:CYC:HBB1	2:D5:94:MET:HE3	1.37	1.01
3:K6:39:ASP:OD2	11:K6:202:CYC:HHD	1.59	1.01
3:K6:151:GLY:HA3	11:K6:202:CYC:HMD3	1.43	1.01
3:P6:33:GLU:HA	3:P6:36:LYS:HG3	1.04	1.01
3:R6:57:ARG:NH1	2:S6:122:PHE:CD1	2.28	1.01
7:Q7:84:ASP:OD2	11:Q7:1001:CYC:ND	1.93	1.01
7:S7:84:ASP:OD2	11:S7:1001:CYC:ND	1.93	1.01
7:Z7:84:ASP:OD2	11:Z7:1001:CYC:ND	1.93	1.01
3:C8:139:VAL:O	3:C8:142:VAL:HG13	1.60	1.01
3:C8:143:MET:O	11:C8:201:CYC:HMC1	1.60	1.01
3:E8:77:ARG:NH2	11:E8:201:CYC:O1D	1.94	1.01
2:U8:24:LEU:CB	11:V8:202:CYC:HBB1	1.89	1.01
3:V8:77:ARG:NH2	11:V8:201:CYC:O1A	1.93	1.01
3:X8:140:ALA:O	3:X8:144:ASP:OD2	1.78	1.01
3:Z8:77:ARG:NH2	11:Z8:201:CYC:O1A	1.93	1.01
2:Q2:111:LEU:HD21	11:Q2:201:CYC:CAB	1.89	1.01
5:13:720:ASP:HB3	8:Y7:107:ARG:CZ	1.91	1.01
8:t3:62:TYR:O	1:A4:205:THR:HB	1.60	1.01
7:w3:21:GLY:O	7:S7:25:ARG:NH2	1.94	1.01
3:E4:154:SER:O	3:E4:158:GLN:HB2	1.59	1.01
11:L4:202:CYC:HBD1	11:L4:202:CYC:HHA	1.41	1.01
3:P4:154:SER:O	3:P4:158:GLN:HB2	1.60	1.01
3:T4:139:VAL:HA	3:T4:142:VAL:CG1	1.89	1.01
2:W4:87:ASP:OD2	11:W4:201:CYC:ND	1.94	1.01
2:B6:24:LEU:HD13	11:C6:202:CYC:HBB3	1.03	1.01
2:Q6:111:LEU:HD23	11:Q6:201:CYC:HAB2	1.42	1.01
11:A8:301:CYC:O1A	3:C8:77:ARG:NH2	1.93	1.01
3:G8:82:CYS:SG	11:G8:202:CYC:HAC2	1.93	1.01
3:I8:77:ARG:NH2	11:I8:201:CYC:O1A	1.93	1.01
11:P8:203:CYC:ND	2:Q8:87:ASP:OD2	1.94	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R8:67:ILE:HD12	11:S8:201:CYC:O2A	1.60	1.01
2:U8:150:THR:CG2	2:U8:154:ILE:CG1	2.33	1.01
11:X8:202:CYC:HBD1	11:X8:202:CYC:HHA	1.41	1.01
2:B2:111:LEU:HD21	11:B2:201:CYC:CAB	1.89	1.00
11:E2:203:CYC:CAB	2:F2:111:LEU:HD21	1.89	1.00
3:E4:40:ALA:HB2	3:E4:156:LEU:HD11	1.36	1.00
11:E4:203:CYC:HAB1	2:F4:111:LEU:HD21	1.38	1.00
11:E4:203:CYC:ND	2:F4:87:ASP:OD2	1.94	1.00
11:K4:202:CYC:HBD1	11:K4:202:CYC:HHA	1.41	1.00
3:T4:138:ALA:O	3:T4:142:VAL:HG12	1.60	1.00
3:Z4:77:ARG:NH2	11:Z4:201:CYC:O1D	1.93	1.00
11:G6:201:CYC:HBD1	11:G6:201:CYC:HHA	1.41	1.00
2:Q6:122:PHE:HE2	11:Q6:201:CYC:HAA1	1.26	1.00
3:C2:35:THR:CG2	3:C2:36:LYS:HE2	1.90	1.00
3:T2:151:GLY:CA	11:T2:202:CYC:HMD1	1.69	1.00
5:03:440:GLN:NE2	5:03:468:SER:OG	1.93	1.00
7:I3:154:ASP:CG	8:B7:46:ALA:HB2	1.86	1.00
8:e3:17:LYS:HG2	1:A6:207:ASP:CG	1.85	1.00
3:C4:40:ALA:HB3	3:C4:156:LEU:HD13	1.40	1.00
3:E4:77:ARG:NH2	11:E4:201:CYC:O1D	1.94	1.00
2:L4:87:ASP:OD2	11:L4:201:CYC:ND	1.94	1.00
2:U4:87:ASP:OD2	11:U4:201:CYC:ND	1.94	1.00
3:V4:151:GLY:N	11:V4:202:CYC:HMD2	1.76	1.00
2:F5:149:GLU:OE2	11:K5:202:CYC:HAB2	1.61	1.00
11:I6:202:CYC:HBD1	11:I6:202:CYC:HHA	1.41	1.00
3:K6:39:ASP:OD2	11:K6:202:CYC:CHD	2.09	1.00
11:T6:201:CYC:HBD1	11:T6:201:CYC:HHA	1.41	1.00
3:C8:145:PRO:HB3	11:C8:201:CYC:HMC3	1.41	1.00
3:E8:77:ARG:NH2	11:E8:201:CYC:O1A	1.93	1.00
3:V8:151:GLY:N	11:V8:202:CYC:HMD2	1.76	1.00
11:A1:301:CYC:ND	3:C1:85:ASP:OD2	1.95	1.00
11:A1:302:CYC:ND	3:E1:85:ASP:OD2	1.95	1.00
2:J1:138:ALA:HB1	2:B8:64:PRO:HB3	1.43	1.00
3:X2:151:GLY:N	11:X2:202:CYC:HMD2	1.74	1.00
7:q3:68:PRO:O	7:V7:63:PRO:HG2	1.60	1.00
7:u3:6:LYS:HZ3	7:O7:10:ASN:ND2	1.57	1.00
3:E4:156:LEU:CD1	11:E4:202:CYC:HBC1	1.91	1.00
2:S4:24:LEU:HD12	2:Y4:152:ASN:HD21	1.26	1.00
3:V4:139:VAL:HA	3:V4:142:VAL:HG13	1.44	1.00
3:K5:57:ARG:NH1	11:L5:201:CYC:O2D	1.94	1.00
2:S5:149:GLU:OE2	11:Z5:202:CYC:HAB2	1.60	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:V5:202:CYC:HAA2	2:W5:122:PHE:HE2	1.27	1.00
11:C6:203:CYC:HAB2	2:D6:111:LEU:HD23	1.42	1.00
11:V6:202:CYC:HBD1	11:V6:202:CYC:HHA	1.41	1.00
3:X6:151:GLY:N	11:X6:202:CYC:HMD1	1.70	1.00
2:B8:27:LEU:HD13	3:C8:38:SER:HB3	1.05	1.00
3:G8:77:ARG:NH2	11:G8:202:CYC:O1D	1.94	1.00
3:I8:77:ARG:NH2	11:I8:201:CYC:O1D	1.94	1.00
3:K8:151:GLY:HA3	11:K8:202:CYC:HMD3	1.38	1.00
3:X8:77:ARG:NH2	11:X8:201:CYC:O1D	1.94	1.00
2:J1:138:ALA:CB	2:B8:64:PRO:CB	2.36	1.00
3:M1:85:ASP:OD2	11:M1:201:CYC:ND	1.95	1.00
2:W2:111:LEU:HD23	11:W2:201:CYC:HAB2	1.42	1.00
7:d3:74:GLY:H	1:A6:194:VAL:CG2	1.74	1.00
7:u3:113:ARG:HD3	7:Q7:117:LYS:HE3	1.42	1.00
3:I4:77:ARG:NH2	11:I4:201:CYC:O1D	1.94	1.00
3:Z4:77:ARG:NH2	11:Z4:201:CYC:O1A	1.93	1.00
1:A5:203:PHE:CE2	1:A5:204:ARG:HD2	1.95	1.00
3:P5:85:ASP:OD2	11:P5:201:CYC:ND	1.95	1.00
2:H6:111:LEU:HD21	11:H6:201:CYC:CAB	1.89	1.00
7:J7:84:ASP:OD2	11:J7:1001:CYC:ND	1.93	1.00
2:H8:87:ASP:OD2	11:M8:201:CYC:ND	1.94	1.00
3:P8:151:GLY:HA3	11:P8:202:CYC:HMD3	1.43	1.00
11:R8:201:CYC:HBD1	11:R8:201:CYC:HHA	1.41	1.00
3:Z8:77:ARG:NH2	11:Z8:201:CYC:O1D	1.94	1.00
2:O1:122:PHE:HE2	11:O1:201:CYC:HAA2	1.27	1.00
2:W2:111:LEU:HD21	11:W2:201:CYC:CAB	1.89	1.00
2:B4:149:GLU:HG2	2:B4:153:TYR:CD2	1.95	1.00
2:W4:36:PHE:HE1	2:W4:149:GLU:OE2	1.30	1.00
3:X4:37:ARG:NH1	3:X4:100:GLY:HA2	1.77	1.00
7:H7:71:ASN:ND2	11:H7:1001:CYC:HC	1.60	1.00
3:C8:40:ALA:HB3	3:C8:156:LEU:HD13	1.40	1.00
3:T8:77:ARG:NH2	11:T8:201:CYC:O1D	1.94	1.00
2:F1:149:GLU:OE2	11:K1:202:CYC:HAB2	1.61	1.00
11:K2:202:CYC:HHA	11:K2:202:CYC:HBD1	1.41	1.00
11:K2:203:CYC:HAA1	2:L2:122:PHE:HE2	1.27	1.00
7:w3:77:MET:HE2	1:A5:201:ARG:CG	1.90	1.00
2:B4:149:GLU:OE1	2:B4:153:TYR:CD2	2.14	1.00
3:C4:42:SER:HA	3:C4:45:THR:HG22	1.42	1.00
11:I4:203:CYC:ND	2:J4:87:ASP:OD2	1.94	1.00
2:J4:150:THR:O	2:J4:153:TYR:HB2	1.62	1.00
2:S4:149:GLU:CG	2:S4:153:TYR:HE2	1.75	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:122:PHE:HE2	11:B6:201:CYC:HAA1	1.27	1.00
3:P6:33:GLU:CB	3:P6:36:LYS:CE	2.38	1.00
2:D8:87:ASP:OD2	11:D8:201:CYC:ND	1.94	1.00
11:C2:202:CYC:HHA	11:C2:202:CYC:HBD1	1.41	1.00
3:P2:36:LYS:NZ	11:P2:202:CYC:O1D	1.95	1.00
2:S2:111:LEU:HD23	11:S2:201:CYC:HAB2	1.42	1.00
5:03:443:TYR:CE2	5:03:611:ILE:HG12	1.96	1.00
3:C4:42:SER:CA	3:C4:45:THR:HG22	1.92	1.00
2:D4:33:GLN:HG3	2:L4:25:GLN:HE21	0.88	1.00
3:G4:77:ARG:NH2	11:G4:202:CYC:O1D	1.94	1.00
11:P4:202:CYC:HBD1	11:P4:202:CYC:HHA	1.41	1.00
2:S4:87:ASP:OD2	11:S4:201:CYC:ND	1.94	1.00
7:V7:84:ASP:OD2	11:V7:1001:CYC:ND	1.93	1.00
2:J8:24:LEU:HD21	3:K8:42:SER:CB	1.92	1.00
3:K8:77:ARG:NH2	11:K8:201:CYC:O1A	1.93	1.00
2:S8:140:HIS:CE1	2:S8:142:LEU:CB	2.43	1.00
2:S8:149:GLU:CG	2:S8:153:TYR:HE2	1.75	1.00
11:V2:202:CYC:HBD1	11:V2:202:CYC:HHA	1.41	0.99
5:03:512:ASN:CA	6:G7:23:GLN:HE22	1.68	0.99
8:U3:83:ARG:NH2	11:U3:1001:CYC:O1A	1.95	0.99
8:j3:83:ARG:NH2	11:j3:1001:CYC:O1A	1.95	0.99
3:P4:77:ARG:NH2	11:P4:201:CYC:O1D	1.94	0.99
2:Q4:15:GLN:NE2	2:Q4:17:ARG:HE	1.60	0.99
3:T4:77:ARG:NH2	11:T4:201:CYC:O1A	1.93	0.99
3:T4:143:MET:HE2	3:T4:143:MET:HA	1.43	0.99
11:V4:202:CYC:HHA	11:V4:202:CYC:HBD1	1.41	0.99
2:U5:122:PHE:HE2	11:U5:201:CYC:HAA2	1.27	0.99
2:L8:87:ASP:OD2	11:L8:201:CYC:ND	1.94	0.99
11:N8:301:CYC:O1D	3:R8:77:ARG:NH2	1.94	0.99
2:J1:122:PHE:HE2	11:J1:201:CYC:HAA2	1.27	0.99
2:L1:122:PHE:HE2	11:L1:201:CYC:HAA2	1.27	0.99
3:R1:85:ASP:OD2	11:R1:201:CYC:ND	1.95	0.99
2:D2:111:LEU:HD21	11:D2:201:CYC:CAB	1.89	0.99
2:S2:111:LEU:HD21	11:S2:201:CYC:CAB	1.89	0.99
8:M3:83:ARG:NH2	11:M3:201:CYC:O1A	1.95	0.99
7:q3:82:LEU:HB3	1:A8:218:PHE:HD1	1.25	0.99
8:z3:83:ARG:NH2	11:z3:1001:CYC:O1A	1.95	0.99
11:F4:201:CYC:HBD1	11:F4:201:CYC:HHA	1.41	0.99
3:V4:77:ARG:NH2	11:V4:201:CYC:O1D	1.94	0.99
2:W4:111:LEU:HD21	11:W4:201:CYC:HAB1	1.38	0.99
3:X4:77:ARG:NH2	11:X4:201:CYC:O1D	1.94	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:111:LEU:HD21	11:B6:201:CYC:CAB	1.89	0.99
2:L6:84:CYS:CB	11:L6:201:CYC:CAC	2.24	0.99
11:E8:203:CYC:ND	2:F8:87:ASP:OD2	1.94	0.99
3:G1:85:ASP:OD2	11:G1:201:CYC:ND	1.95	0.99
11:R2:201:CYC:HBD1	11:R2:201:CYC:HHA	1.41	0.99
11:13:903:CYC:O1A	8:a3:83:ARG:NH2	1.95	0.99
8:l3:83:ARG:NH2	11:l3:1001:CYC:O1A	1.95	0.99
11:A4:301:CYC:O1D	3:C4:77:ARG:NH2	1.94	0.99
2:B5:122:PHE:HE2	11:B5:201:CYC:HAA2	1.27	0.99
11:X5:203:CYC:HAA2	2:Y5:122:PHE:HE2	1.27	0.99
2:J6:111:LEU:HD21	11:J6:201:CYC:CAB	1.89	0.99
7:H7:84:ASP:OD2	11:H7:1001:CYC:ND	1.93	0.99
7:O7:71:ASN:ND2	11:O7:1001:CYC:HC	1.60	0.99
7:Z7:71:ASN:ND2	11:Z7:1001:CYC:HC	1.60	0.99
1:A8:208:ARG:NH2	1:A8:211:GLN:CG	2.21	0.99
3:C8:42:SER:C	3:C8:45:THR:HG22	1.86	0.99
2:L8:36:PHE:CG	2:L8:145:ASP:OD1	2.16	0.99
2:U8:87:ASP:OD2	11:U8:201:CYC:ND	1.94	0.99
2:B1:122:PHE:HE2	11:B1:201:CYC:HAA2	1.27	0.99
2:F1:122:PHE:HE2	11:F1:201:CYC:HAA2	1.27	0.99
2:U2:111:LEU:HD23	11:Z2:201:CYC:HAB2	1.42	0.99
2:U2:122:PHE:HE2	11:Z2:201:CYC:HAA1	1.27	0.99
11:X2:202:CYC:HBD1	11:X2:202:CYC:HHA	1.41	0.99
7:K3:68:PRO:O	7:A7:63:PRO:HG2	1.62	0.99
8:S3:83:ARG:NH2	11:S3:1001:CYC:O1A	1.96	0.99
11:Z4:202:CYC:HHA	11:Z4:202:CYC:HBD1	1.41	0.99
3:V5:85:ASP:OD2	11:V5:201:CYC:ND	1.95	0.99
2:H6:111:LEU:HD23	11:H6:201:CYC:HAB2	1.42	0.99
11:K6:202:CYC:HBD1	11:K6:202:CYC:HHA	1.41	0.99
2:U6:111:LEU:HD23	11:U6:201:CYC:HAB2	1.42	0.99
7:C7:71:ASN:ND2	11:C7:1001:CYC:HC	1.60	0.99
7:V7:71:ASN:ND2	11:V7:1001:CYC:HC	1.60	0.99
2:B8:87:ASP:OD2	11:G8:201:CYC:ND	1.94	0.99
11:P8:203:CYC:O2A	2:Q8:83:LYS:NZ	1.95	0.99
2:W8:87:ASP:OD2	11:W8:201:CYC:ND	1.94	0.99
3:K2:39:ASP:OD2	11:K2:202:CYC:CHD	2.09	0.99
11:13:904:CYC:O1A	8:h3:83:ARG:NH2	1.95	0.99
8:H3:83:ARG:NH2	11:H3:1001:CYC:O1A	1.95	0.99
8:t3:83:ARG:NH2	11:t3:1001:CYC:O1A	1.95	0.99
8:v3:83:ARG:NH2	11:v3:1001:CYC:O1A	1.95	0.99
11:E4:202:CYC:HBD1	11:E4:202:CYC:HHA	1.41	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H4:87:ASP:OD2	11:M4:201:CYC:ND	1.94	0.99
11:N4:301:CYC:O1D	3:R4:77:ARG:NH2	1.94	0.99
3:I5:85:ASP:OD2	11:I5:201:CYC:ND	1.95	0.99
3:K5:85:ASP:OD2	11:K5:201:CYC:ND	1.95	0.99
2:W6:111:LEU:HD23	11:W6:201:CYC:HAB2	1.42	0.99
2:J1:61:SER:HB3	2:J8:61:SER:CA	1.93	0.99
3:K1:85:ASP:OD2	11:K1:201:CYC:ND	1.95	0.99
3:P1:85:ASP:OD2	11:P1:201:CYC:ND	1.95	0.99
2:O2:122:PHE:HE2	11:T2:201:CYC:HAA1	1.27	0.99
8:c3:83:ARG:NH2	11:c3:1001:CYC:O1A	1.95	0.99
8:e3:83:ARG:NH2	11:e3:1001:CYC:O1A	1.95	0.99
2:B4:83:LYS:NZ	11:G4:201:CYC:O2A	1.95	0.99
11:I4:202:CYC:HBD1	11:I4:202:CYC:HHA	1.41	0.99
11:N4:301:CYC:HAC1	3:R4:82:CYS:HG	1.26	0.99
11:P4:203:CYC:ND	2:Q4:87:ASP:OD2	1.94	0.99
11:A5:302:CYC:ND	3:E5:85:ASP:OD2	1.95	0.99
11:A8:301:CYC:O1D	3:C8:77:ARG:NH2	1.94	0.99
2:D8:140:HIS:HE1	2:D8:142:LEU:HB2	1.15	0.99
2:W8:140:HIS:HE1	2:W8:142:LEU:HB2	1.27	0.99
2:Y8:87:ASP:OD2	11:Y8:201:CYC:ND	1.94	0.99
3:K1:57:ARG:NH1	11:L1:201:CYC:O2D	1.94	0.99
2:B2:122:PHE:HE2	11:B2:201:CYC:HAA1	1.27	0.99
11:03:902:CYC:O1A	8:L3:83:ARG:NH2	1.95	0.99
7:K3:113:ARG:HH12	7:A7:117:LYS:HD2	1.23	0.99
3:K4:88:ILE:HD11	4:N4:251:TYR:CE1	1.98	0.99
2:S4:83:LYS:NZ	11:S4:201:CYC:O2A	1.95	0.99
3:P6:57:ARG:HH22	2:Q6:72:ASN:HB2	1.26	0.99
3:V6:148:VAL:HG13	11:V6:202:CYC:C1D	1.93	0.99
2:B8:27:LEU:HD12	3:C8:38:SER:HB2	1.45	0.99
2:F8:21:ASN:HB3	2:J8:149:GLU:OE2	1.62	0.99
2:J8:150:THR:O	2:J8:153:TYR:HB2	1.62	0.99
2:L8:83:LYS:NZ	11:L8:201:CYC:O2A	1.95	0.99
2:S8:83:LYS:NZ	11:S8:201:CYC:O2A	1.95	0.99
3:T8:143:MET:HE2	3:T8:143:MET:HA	1.44	0.99
2:Q1:122:PHE:HE2	11:Q1:201:CYC:HAA2	1.27	0.99
11:I2:203:CYC:HAA1	2:J2:122:PHE:HE2	1.27	0.99
5:03:512:ASN:HA	6:G7:23:GLN:HE21	1.27	0.99
2:B4:64:PRO:CB	2:J5:138:ALA:CB	2.40	0.99
2:D4:87:ASP:OD2	11:D4:201:CYC:ND	1.94	0.99
2:L4:36:PHE:CG	2:L4:145:ASP:OD1	2.16	0.99
2:U4:83:LYS:NZ	11:U4:201:CYC:O2A	1.95	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R6:202:CYC:HAB2	2:S6:111:LEU:HD23	1.42	0.99
1:A8:203:PHE:CE2	1:A8:204:ARG:NH2	2.30	0.99
2:B8:83:LYS:NZ	11:G8:201:CYC:O2A	1.95	0.99
2:H8:83:LYS:NZ	11:M8:201:CYC:H2A	1.61	0.99
3:K8:77:ARG:NH2	11:K8:201:CYC:O1D	1.94	0.99
11:L8:202:CYC:HBD1	11:L8:202:CYC:HHA	1.41	0.99
2:Q8:15:GLN:NE2	2:Q8:17:ARG:HE	1.60	0.99
11:T8:202:CYC:HBD1	11:T8:202:CYC:HHA	1.41	0.99
3:X8:139:VAL:HA	3:X8:142:VAL:CG1	1.93	0.99
11:N1:301:CYC:ND	3:T1:85:ASP:OD2	1.95	0.99
11:V1:202:CYC:HAA2	2:W1:122:PHE:HE2	1.27	0.99
3:X1:85:ASP:OD2	11:X1:201:CYC:ND	1.95	0.99
3:I2:57:ARG:HE	3:I2:57:ARG:HA	1.27	0.99
3:V2:148:VAL:HG13	11:V2:202:CYC:C1D	1.93	0.99
7:d3:52:LYS:NZ	1:A6:201:ARG:HG3	1.77	0.99
2:B4:87:ASP:OD2	11:G4:201:CYC:ND	1.94	0.99
2:F4:150:THR:HG23	2:F4:154:ILE:HD11	1.45	0.99
2:Q4:24:LEU:CD1	2:U4:152:ASN:ND2	2.25	0.99
2:W4:140:HIS:HE1	2:W4:142:LEU:HB2	1.27	0.99
3:G5:85:ASP:OD2	11:G5:201:CYC:ND	1.95	0.99
3:C6:35:THR:CG2	3:C6:36:LYS:CE	2.37	0.99
11:I8:202:CYC:HHA	11:I8:202:CYC:HBD1	1.41	0.99
11:I8:203:CYC:O2A	2:J8:83:LYS:NZ	1.95	0.99
11:Z8:202:CYC:HBD1	11:Z8:202:CYC:HHA	1.41	0.99
3:C4:153:CYS:SG	11:C4:201:CYC:CHD	2.50	0.99
2:F4:24:LEU:CD1	2:F4:28:TYR:CD1	2.45	0.99
2:J4:24:LEU:HD21	3:K4:42:SER:CB	1.92	0.99
2:O4:87:ASP:OD2	11:O4:201:CYC:ND	1.94	0.99
3:R5:85:ASP:OD2	11:R5:201:CYC:ND	1.95	0.99
3:C8:153:CYS:SG	11:C8:201:CYC:CHD	2.50	0.99
2:F8:150:THR:HG22	2:F8:154:ILE:HD12	1.43	0.99
2:H8:83:LYS:NZ	11:M8:201:CYC:O2A	1.95	0.99
2:O8:83:LYS:NZ	11:O8:201:CYC:O2A	1.95	0.99
11:P8:202:CYC:HBD1	11:P8:202:CYC:HHA	1.41	0.99
3:V8:77:ARG:NH2	11:V8:201:CYC:O1D	1.94	0.99
2:J1:57:GLN:HG2	2:J8:67:THR:CB	1.92	0.98
8:W3:83:ARG:NH2	11:W3:1001:CYC:O1A	1.95	0.98
7:u3:76:GLU:CG	1:A8:203:PHE:HE2	1.61	0.98
11:T4:202:CYC:HBD1	11:T4:202:CYC:HHA	1.41	0.98
11:C6:203:CYC:CAB	2:D6:111:LEU:HD21	1.89	0.98
7:A7:71:ASN:ND2	11:A7:1001:CYC:HC	1.60	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K8:88:ILE:HD11	4:N8:251:TYR:CE1	1.97	0.98
2:S8:24:LEU:HD12	2:Y8:152:ASN:HD21	1.26	0.98
2:Y8:86:ARG:NH2	11:Y8:201:CYC:H2A	1.61	0.98
2:S1:122:PHE:HE2	11:S1:201:CYC:HAA2	1.27	0.98
2:B2:84:CYS:CB	11:B2:201:CYC:CAC	2.24	0.98
2:O4:83:LYS:NZ	11:O4:201:CYC:O2A	1.95	0.98
11:P4:203:CYC:O2A	2:Q4:83:LYS:NZ	1.95	0.98
2:Y6:122:PHE:HE2	11:Y6:201:CYC:HAA1	1.27	0.98
2:D8:24:LEU:HD11	2:L8:152:ASN:ND2	1.79	0.98
3:I1:85:ASP:OD2	11:I1:201:CYC:ND	1.95	0.98
3:Z1:85:ASP:OD2	11:Z1:201:CYC:ND	1.95	0.98
2:O2:111:LEU:HD23	11:T2:201:CYC:HAB2	1.42	0.98
8:O3:83:ARG:NH2	11:O3:1001:CYC:O1A	1.95	0.98
7:X3:3:ILE:HD11	7:H7:25:ARG:NH2	1.78	0.98
7:q3:82:LEU:CD1	1:A8:221:MET:HE2	1.93	0.98
8:r3:83:ARG:NH2	11:r3:1001:CYC:O1A	1.95	0.98
8:x3:83:ARG:NH2	11:x3:1001:CYC:O1A	1.95	0.98
2:D4:83:LYS:NZ	11:D4:201:CYC:O2A	1.95	0.98
2:F4:21:ASN:HB3	2:J4:149:GLU:OE2	1.61	0.98
3:P4:139:VAL:O	3:P4:142:VAL:HG12	1.64	0.98
2:Y4:87:ASP:OD2	11:Y4:201:CYC:ND	1.94	0.98
3:K6:151:GLY:HA3	11:K6:202:CYC:CMD	1.94	0.98
8:W7:66:THR:CG2	11:X7:1001:CYC:O1A	2.11	0.98
3:C8:42:SER:CA	3:C8:45:THR:HG22	1.92	0.98
3:M8:82:CYS:HG	11:M8:202:CYC:HAC1	0.87	0.98
2:Q8:24:LEU:CD1	2:U8:152:ASN:ND2	2.26	0.98
3:P2:33:GLU:CA	3:P2:36:LYS:HG3	1.92	0.98
2:S2:122:PHE:HE2	11:S2:201:CYC:HAA1	1.27	0.98
11:A4:301:CYC:CAC	3:C4:82:CYS:HG	1.68	0.98
3:C4:42:SER:C	3:C4:45:THR:HG22	1.87	0.98
2:W4:84:CYS:SG	11:W4:201:CYC:CAC	2.52	0.98
2:Y4:83:LYS:NZ	11:Y4:201:CYC:O2A	1.95	0.98
3:Z5:85:ASP:OD2	11:Z5:201:CYC:ND	1.95	0.98
2:F6:111:LEU:HD23	11:F6:201:CYC:HAB2	1.42	0.98
3:C8:51:ILE:CD1	3:C8:141:ILE:CD1	2.40	0.98
11:E8:202:CYC:HBD1	11:E8:202:CYC:HHA	1.41	0.98
2:H8:84:CYS:SG	11:M8:201:CYC:CAC	2.52	0.98
2:L8:84:CYS:SG	11:L8:201:CYC:CAC	2.52	0.98
3:P8:39:ASP:OD2	11:P8:202:CYC:HMB1	1.63	0.98
2:S8:18:PHE:HD2	3:T8:45:THR:HG1	1.03	0.98
2:U8:24:LEU:CB	11:V8:202:CYC:CBB	2.41	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:122:PHE:HE2	11:H1:201:CYC:HAA2	1.27	0.98
8:n3:83:ARG:NH2	11:n3:1001:CYC:O1A	1.95	0.98
7:w3:25:ARG:HH12	7:S7:24:ASP:HB2	1.29	0.98
3:E4:40:ALA:CB	3:E4:156:LEU:CD1	2.36	0.98
11:E4:203:CYC:CAC	2:F4:84:CYS:SG	2.52	0.98
2:O4:84:CYS:SG	11:O4:201:CYC:CAC	2.52	0.98
3:M5:85:ASP:OD2	11:M5:201:CYC:ND	1.95	0.98
7:E7:71:ASN:ND2	11:E7:1001:CYC:HC	1.60	0.98
11:E8:203:CYC:O2A	2:F8:83:LYS:NZ	1.95	0.98
3:G8:143:MET:CE	3:G8:157:GLN:CB	2.41	0.98
2:S8:87:ASP:OD2	11:S8:201:CYC:ND	1.94	0.98
2:Y8:149:GLU:O	2:Y8:153:TYR:HB2	1.63	0.98
11:P2:202:CYC:HBD1	11:P2:202:CYC:HHA	1.41	0.98
7:d3:47:ARG:NE	1:A6:205:THR:HG21	1.79	0.98
7:o3:79:ALA:HB1	1:A5:219:LEU:CA	1.93	0.98
7:u3:20:PRO:HB3	7:O7:151:ALA:HB1	1.42	0.98
11:E4:203:CYC:O2A	2:F4:83:LYS:NZ	1.95	0.98
11:I4:203:CYC:O2A	2:J4:83:LYS:NZ	1.95	0.98
11:N5:301:CYC:ND	3:T5:85:ASP:OD2	1.95	0.98
3:C6:151:GLY:HA3	11:C6:202:CYC:HMD3	1.46	0.98
3:C8:42:SER:O	3:C8:45:THR:HG23	1.64	0.98
11:P8:203:CYC:CAC	2:Q8:84:CYS:SG	2.52	0.98
2:W8:149:GLU:HG2	2:W8:153:TYR:HE2	1.20	0.98
2:Y8:83:LYS:NZ	11:Y8:201:CYC:O2A	1.95	0.98
11:K2:203:CYC:HAB2	2:L2:111:LEU:HD23	1.42	0.98
2:U2:111:LEU:HD21	11:Z2:201:CYC:CAB	1.89	0.98
8:p3:83:ARG:NH2	11:p3:1001:CYC:O1A	1.95	0.98
1:A4:203:PHE:CE2	1:A4:204:ARG:NH2	2.30	0.98
3:P4:39:ASP:OD2	11:P4:202:CYC:HMB1	1.63	0.98
2:S4:149:GLU:HG2	2:S4:153:TYR:HE2	0.89	0.98
2:U4:84:CYS:SG	11:U4:201:CYC:CAC	2.52	0.98
2:W4:149:GLU:HG2	2:W4:153:TYR:HE2	1.20	0.98
2:L5:122:PHE:HE2	11:L5:201:CYC:HAA2	1.27	0.98
2:O5:122:PHE:CE2	11:O5:201:CYC:HAA2	1.99	0.98
7:S7:71:ASN:ND2	11:S7:1001:CYC:HC	1.60	0.98
2:D8:84:CYS:SG	11:D8:201:CYC:CAC	2.52	0.98
2:O8:87:ASP:OD2	11:O8:201:CYC:ND	1.94	0.98
2:U8:83:LYS:NZ	11:U8:201:CYC:H2A	1.60	0.98
2:B1:122:PHE:CE2	11:B1:201:CYC:HAA2	1.99	0.98
2:Q2:111:LEU:HD23	11:Q2:201:CYC:HAB2	1.42	0.98
2:U2:84:CYS:CB	11:Z2:201:CYC:CAC	2.24	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:C4:201:CYC:HBD1	11:C4:201:CYC:HHA	1.41	0.98
3:X4:51:ILE:HD11	3:X4:141:ILE:HD11	1.44	0.98
2:L5:122:PHE:CE2	11:L5:201:CYC:HAA2	1.99	0.98
8:B7:66:THR:HG22	11:C7:1001:CYC:O1A	1.64	0.98
2:B8:84:CYS:SG	11:G8:201:CYC:CAC	2.52	0.98
3:G8:143:MET:HE1	3:G8:157:GLN:CB	1.94	0.98
11:I8:203:CYC:CAC	2:J8:84:CYS:SG	2.52	0.98
2:U8:84:CYS:SG	11:U8:201:CYC:CAC	2.52	0.98
11:C1:202:CYC:HAA2	2:D1:122:PHE:CE2	1.99	0.98
2:F1:122:PHE:CE2	11:F1:201:CYC:HAA2	1.99	0.98
3:V1:85:ASP:OD2	11:V1:201:CYC:ND	1.95	0.98
1:A2:193:GLN:NE2	3:G2:72:ASN:N	2.10	0.98
5:13:837:LEU:HD12	6:b7:42:ARG:HD2	1.40	0.98
7:o3:51:ILE:HG21	1:A5:218:PHE:CZ	1.99	0.98
11:I4:203:CYC:CAC	2:J4:84:CYS:SG	2.52	0.98
11:P4:203:CYC:CAC	2:Q4:84:CYS:SG	2.52	0.98
11:A5:301:CYC:ND	3:C5:85:ASP:OD2	1.95	0.98
11:C6:203:CYC:HAA1	2:D6:122:PHE:HE2	1.27	0.98
3:X6:36:LYS:HE3	11:X6:202:CYC:O1D	1.64	0.98
7:L7:71:ASN:ND2	11:L7:1001:CYC:HC	1.60	0.98
7:X7:71:ASN:ND2	11:X7:1001:CYC:HC	1.60	0.98
11:E8:203:CYC:CAC	2:F8:84:CYS:SG	2.52	0.98
2:W8:83:LYS:NZ	11:W8:201:CYC:O2A	1.95	0.98
11:C1:202:CYC:HAA2	2:D1:122:PHE:HE2	1.27	0.98
11:X1:203:CYC:HAA2	2:Y1:122:PHE:HE2	1.27	0.98
3:C2:33:GLU:CA	3:C2:36:LYS:HG2	1.94	0.98
8:H3:83:ARG:NH2	11:H3:1001:CYC:O2A	1.97	0.98
7:d3:47:ARG:HE	1:A6:205:THR:HG21	1.26	0.98
3:E4:36:LYS:NZ	3:E4:152:ASP:O	1.97	0.98
3:G4:143:MET:CE	3:G4:157:GLN:CB	2.42	0.98
11:V5:202:CYC:HAA2	2:W5:122:PHE:CE2	1.99	0.98
2:L8:83:LYS:NZ	11:L8:201:CYC:H2A	1.61	0.98
11:X2:203:CYC:HAB2	2:Y2:111:LEU:HD23	1.42	0.97
8:W3:83:ARG:NH2	11:W3:1001:CYC:O2A	1.97	0.97
3:G4:143:MET:HE1	3:G4:157:GLN:CB	1.94	0.97
2:H5:122:PHE:CE2	11:H5:201:CYC:HAA2	1.99	0.97
3:X5:85:ASP:OD2	11:X5:201:CYC:ND	1.95	0.97
7:Q7:71:ASN:ND2	11:Q7:1001:CYC:HC	1.60	0.97
3:P8:139:VAL:O	3:P8:142:VAL:HG12	1.64	0.97
3:X8:37:ARG:NH1	3:X8:100:GLY:HA2	1.77	0.97
2:B1:73:ASN:O	11:B1:201:CYC:CMD	2.12	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q2:122:PHE:HE2	11:Q2:201:CYC:HAA1	1.27	0.97
8:S3:83:ARG:NH2	11:S3:1001:CYC:O2A	1.97	0.97
8:v3:83:ARG:NH2	11:v3:1001:CYC:O2A	1.97	0.97
2:B4:27:LEU:HD13	3:C4:38:SER:HB3	1.05	0.97
2:B4:84:CYS:SG	11:G4:201:CYC:CAC	2.52	0.97
2:Y4:149:GLU:O	2:Y4:153:TYR:HB2	1.63	0.97
2:F5:84:CYS:SG	11:F5:201:CYC:H2C	2.04	0.97
2:L6:111:LEU:HD21	11:L6:201:CYC:CAB	1.89	0.97
2:D8:83:LYS:NZ	11:D8:201:CYC:O2A	1.95	0.97
2:S8:84:CYS:SG	11:S8:201:CYC:CAC	2.52	0.97
2:W8:84:CYS:SG	11:W8:201:CYC:CAC	2.52	0.97
2:U1:84:CYS:SG	11:U1:201:CYC:H2C	2.04	0.97
2:U1:122:PHE:CE2	11:U1:201:CYC:HAA2	1.99	0.97
2:D4:84:CYS:SG	11:D4:201:CYC:CAC	2.52	0.97
3:E4:82:CYS:HG	11:E4:201:CYC:HAC1	1.28	0.97
3:X4:139:VAL:HA	3:X4:142:VAL:CG1	1.93	0.97
2:Y4:136:ILE:O	2:Y4:140:HIS:HD2	1.46	0.97
2:Q5:122:PHE:HE2	11:Q5:201:CYC:HAA2	1.27	0.97
2:B6:111:LEU:HD23	11:B6:201:CYC:HAB2	1.42	0.97
2:J6:122:PHE:HE2	11:J6:201:CYC:HAA1	1.27	0.97
2:O8:84:CYS:SG	11:O8:201:CYC:CAC	2.52	0.97
2:Y8:84:CYS:SG	11:Y8:201:CYC:CAC	2.52	0.97
2:L1:73:ASN:O	11:L1:201:CYC:CMD	2.13	0.97
2:O1:122:PHE:CE2	11:O1:201:CYC:HAA2	1.99	0.97
8:M3:83:ARG:NH2	11:M3:201:CYC:O2A	1.97	0.97
8:l3:83:ARG:NH2	11:l3:1001:CYC:O2A	1.97	0.97
2:D4:19:LEU:CD2	3:E4:95:TYR:HE1	1.67	0.97
2:D4:24:LEU:HD11	2:L4:152:ASN:ND2	1.78	0.97
2:D4:24:LEU:CD1	2:L4:152:ASN:ND2	2.27	0.97
2:L4:84:CYS:SG	11:L4:201:CYC:CAC	2.52	0.97
2:S4:84:CYS:SG	11:S4:201:CYC:CAC	2.52	0.97
3:T4:51:ILE:CD1	3:T4:141:ILE:CD1	2.41	0.97
3:V4:82:CYS:HG	11:V4:201:CYC:HAC1	0.86	0.97
1:A5:209:VAL:CG2	1:A5:210:PRO:HD2	1.93	0.97
2:B5:122:PHE:CE2	11:B5:201:CYC:HAA2	1.99	0.97
2:Q5:122:PHE:CE2	11:Q5:201:CYC:HAA2	1.99	0.97
2:U6:122:PHE:HE2	11:U6:201:CYC:HAA1	1.27	0.97
7:J7:71:ASN:ND2	11:J7:1001:CYC:HC	1.60	0.97
2:D8:19:LEU:CD2	3:E8:95:TYR:HE1	1.67	0.97
2:J1:84:CYS:SG	11:J1:201:CYC:H2C	2.05	0.97
11:I2:203:CYC:HAB2	2:J2:111:LEU:HD23	1.42	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X2:151:GLY:N	11:X2:202:CYC:HMD1	1.70	0.97
8:O3:83:ARG:NH2	11:O3:1001:CYC:O2A	1.97	0.97
7:d3:66:VAL:HG11	1:A6:196:TRP:HB3	0.98	0.97
8:t3:83:ARG:NH2	11:t3:1001:CYC:O2A	1.97	0.97
3:C4:40:ALA:HB2	3:C4:156:LEU:HD12	1.44	0.97
2:H4:84:CYS:SG	11:M4:201:CYC:CAC	2.52	0.97
2:U4:24:LEU:CB	11:V4:202:CYC:CBB	2.41	0.97
2:S5:122:PHE:CE2	11:S5:201:CYC:HAA2	1.99	0.97
2:U5:122:PHE:CE2	11:U5:201:CYC:HAA2	1.99	0.97
11:V5:202:CYC:H2C	2:W5:84:CYS:SG	2.05	0.97
11:X5:203:CYC:CMD	2:Y5:73:ASN:O	2.13	0.97
2:O6:122:PHE:HE2	11:O6:201:CYC:HAA1	1.27	0.97
11:F8:201:CYC:HBD1	11:F8:201:CYC:HHA	1.41	0.97
11:F8:201:CYC:CBC	3:G8:142:VAL:CG2	2.42	0.97
2:Q1:122:PHE:CE2	11:Q1:201:CYC:HAA2	1.99	0.97
11:X1:203:CYC:HAA2	2:Y1:122:PHE:CE2	1.99	0.97
7:K3:117:LYS:HZ3	7:A7:113:ARG:NH1	1.47	0.97
8:r3:83:ARG:NH2	11:r3:1001:CYC:O2A	1.97	0.97
2:S4:18:PHE:HD2	3:T4:45:THR:HG1	1.02	0.97
11:C5:202:CYC:CMD	2:D5:73:ASN:O	2.13	0.97
2:F5:73:ASN:O	11:F5:201:CYC:CMD	2.13	0.97
2:J5:122:PHE:CE2	11:J5:201:CYC:HAA2	1.99	0.97
11:V5:202:CYC:CMD	2:W5:73:ASN:O	2.13	0.97
2:O6:111:LEU:HD23	11:O6:201:CYC:HAB2	1.42	0.97
3:R6:151:GLY:CA	11:R6:201:CYC:HMD2	1.94	0.97
3:C8:142:VAL:O	11:C8:201:CYC:HBC3	1.63	0.97
3:T8:51:ILE:CD1	3:T8:141:ILE:CD1	2.41	0.97
2:J1:122:PHE:CE2	11:J1:201:CYC:HAA2	1.99	0.97
3:K1:84:ARG:NH1	4:N1:251:TYR:HB2	1.79	0.97
2:L1:122:PHE:CE2	11:L1:201:CYC:HAA2	1.99	0.97
2:S1:84:CYS:SG	11:S1:201:CYC:H2C	2.05	0.97
3:R2:153:CYS:SG	3:R2:156:LEU:HB2	2.04	0.97
2:F4:150:THR:HG22	2:F4:154:ILE:HD12	1.43	0.97
3:I4:147:GLY:O	3:I4:148:VAL:HG13	1.65	0.97
2:Y4:84:CYS:SG	11:Y4:201:CYC:CAC	2.52	0.97
2:H5:73:ASN:O	11:H5:201:CYC:CMD	2.13	0.97
2:F8:103:GLY:HA2	2:J8:22:THR:CG2	1.94	0.97
2:S8:149:GLU:HG2	2:S8:153:TYR:HE2	0.89	0.97
3:V8:143:MET:HG3	3:V8:157:GLN:OE1	1.65	0.97
2:H1:122:PHE:CE2	11:H1:201:CYC:HAA2	1.99	0.97
2:O1:28:TYR:OH	11:P1:202:CYC:NB	1.98	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X2:203:CYC:CAB	2:Y2:111:LEU:HD21	1.89	0.97
3:C4:42:SER:O	3:C4:45:THR:HG23	1.64	0.97
2:J5:73:ASN:O	11:J5:201:CYC:CMD	2.12	0.97
2:O5:73:ASN:O	11:O5:201:CYC:CMD	2.13	0.97
2:Q5:73:ASN:O	11:Q5:201:CYC:CMD	2.13	0.97
11:X5:203:CYC:H2C	2:Y5:84:CYS:SG	2.05	0.97
11:C1:202:CYC:CMD	2:D1:73:ASN:O	2.13	0.97
2:Q1:73:ASN:O	11:Q1:201:CYC:CMD	2.13	0.97
2:S1:122:PHE:CE2	11:S1:201:CYC:HAA2	1.99	0.97
11:V1:202:CYC:CMD	2:W1:73:ASN:O	2.13	0.97
2:B2:111:LEU:HD23	11:B2:201:CYC:HAB2	1.42	0.97
5:13:523:VAL:C	7:J7:106:GLU:OE2	2.08	0.97
5:13:525:PHE:CZ	7:J7:5:THR:OG1	2.15	0.97
8:z3:83:ARG:NH2	11:z3:1001:CYC:O2A	1.97	0.97
2:H4:83:LYS:NZ	11:M4:201:CYC:O2A	1.95	0.97
2:F5:122:PHE:CE2	11:F5:201:CYC:HAA2	1.99	0.97
2:J5:122:PHE:HE2	11:J5:201:CYC:HAA2	1.27	0.97
2:U1:73:ASN:O	11:U1:201:CYC:CMD	2.13	0.97
3:C2:151:GLY:HA3	11:C2:202:CYC:HMD3	1.46	0.97
11:E2:203:CYC:HAA1	2:F2:122:PHE:HE2	1.27	0.97
3:P2:151:GLY:HA3	11:P2:202:CYC:HMD2	1.41	0.97
5:03:719:THR:CB	6:U7:23:GLN:NE2	2.27	0.97
5:03:832:ASN:HD21	6:U7:35:ASN:CG	1.72	0.97
11:F4:201:CYC:CBC	3:G4:142:VAL:CG2	2.42	0.97
2:S5:73:ASN:O	11:S5:201:CYC:CMD	2.13	0.97
8:I7:66:THR:HG22	11:J7:1001:CYC:O1A	1.64	0.97
2:F1:84:CYS:SG	11:F1:201:CYC:H2C	2.04	0.96
2:S1:73:ASN:O	11:S1:201:CYC:CMD	2.13	0.96
5:03:443:TYR:O	8:J3:118:SER:OG	1.82	0.96
7:X3:151:ALA:HB1	7:H7:20:PRO:HB2	1.45	0.96
7:Z3:113:ARG:HB3	7:Z3:113:ARG:NH1	1.80	0.96
2:F4:24:LEU:CD1	11:F4:201:CYC:OB	2.11	0.96
11:X5:203:CYC:HAA2	2:Y5:122:PHE:CE2	1.99	0.96
11:R6:202:CYC:HAA1	2:S6:122:PHE:HE2	1.27	0.96
3:C8:40:ALA:HB2	3:C8:156:LEU:HD12	1.44	0.96
2:B1:84:CYS:SG	11:B1:201:CYC:H2C	2.05	0.96
2:J1:57:GLN:HG2	2:J8:67:THR:OG1	0.80	0.96
2:L1:84:CYS:SG	11:L1:201:CYC:H2C	2.05	0.96
2:O1:83:LYS:NZ	11:O1:201:CYC:O2A	1.98	0.96
11:V1:202:CYC:O2A	2:W1:83:LYS:NZ	1.99	0.96
3:X2:36:LYS:HE3	11:X2:202:CYC:O1D	1.64	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:442:VAL:HG21	5:13:608:ARG:HG3	1.46	0.96
11:13:903:CYC:O2A	8:a3:83:ARG:NH2	1.97	0.96
2:U4:24:LEU:HB2	11:V4:202:CYC:HBB1	1.46	0.96
2:Y4:149:GLU:O	2:Y4:153:TYR:CB	2.14	0.96
2:F5:83:LYS:NZ	11:F5:201:CYC:O2A	1.98	0.96
2:J5:84:CYS:CA	11:J5:201:CYC:HAC1	1.95	0.96
3:K5:84:ARG:NH1	4:N5:251:TYR:HB2	1.79	0.96
2:L5:84:CYS:CA	11:L5:201:CYC:HAC1	1.95	0.96
2:S5:122:PHE:HE2	11:S5:201:CYC:HAA2	1.27	0.96
2:U5:83:LYS:NZ	11:U5:201:CYC:O2A	1.99	0.96
11:A8:301:CYC:HAC1	3:C8:82:CYS:HG	0.84	0.96
3:I8:139:VAL:CA	3:I8:142:VAL:CG1	2.43	0.96
2:Q8:24:LEU:CB	11:R8:201:CYC:CBB	2.43	0.96
2:U8:83:LYS:NZ	11:U8:201:CYC:O2A	1.95	0.96
2:J1:73:ASN:O	11:J1:201:CYC:CMD	2.13	0.96
11:X1:203:CYC:O2A	2:Y1:83:LYS:NZ	1.98	0.96
2:B2:24:LEU:CD1	11:C2:202:CYC:HBB1	1.85	0.96
2:D2:122:PHE:HE2	11:D2:201:CYC:HAA1	1.27	0.96
7:u3:64:ASP:OD2	7:Q7:69:GLY:C	2.08	0.96
7:w3:68:PRO:O	7:O7:63:PRO:CG	2.12	0.96
1:A4:204:ARG:HH12	1:A5:219:LEU:HD21	1.29	0.96
11:C5:202:CYC:HAA2	2:D5:122:PHE:CE2	1.99	0.96
2:F5:84:CYS:CA	11:F5:201:CYC:HAC1	1.95	0.96
2:Q5:84:CYS:CA	11:Q5:201:CYC:HAC1	1.95	0.96
2:S5:84:CYS:SG	11:S5:201:CYC:H2C	2.05	0.96
3:C8:138:ALA:O	3:C8:142:VAL:HG12	1.65	0.96
2:Y8:149:GLU:O	2:Y8:153:TYR:CB	2.13	0.96
3:Z8:82:CYS:HG	11:Z8:201:CYC:HAC1	1.21	0.96
2:U1:84:CYS:CA	11:U1:201:CYC:HAC1	1.95	0.96
11:V1:202:CYC:H2C	2:W1:84:CYS:SG	2.05	0.96
1:A2:213:GLY:HA3	8:H3:67:ARG:CG	1.95	0.96
2:H2:122:PHE:HE2	11:H2:201:CYC:HAA1	1.27	0.96
7:X3:154:ASP:OD2	8:I7:46:ALA:CB	2.13	0.96
8:e3:83:ARG:NH2	11:e3:1001:CYC:O2A	1.97	0.96
2:Q4:24:LEU:CB	11:R4:201:CYC:CBB	2.42	0.96
11:C5:202:CYC:HAA2	2:D5:122:PHE:HE2	1.27	0.96
2:S5:83:LYS:NZ	11:S5:201:CYC:O2A	1.98	0.96
2:W6:122:PHE:HE2	11:W6:201:CYC:HAA1	1.27	0.96
2:D8:24:LEU:CD1	2:L8:152:ASN:ND2	2.27	0.96
11:F8:201:CYC:CAC	3:G8:153:CYS:SG	2.54	0.96
11:03:902:CYC:O2A	8:L3:83:ARG:NH2	1.97	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:t3:62:TYR:CZ	1:A4:203:PHE:CB	2.48	0.96
11:C5:202:CYC:O2A	2:D5:83:LYS:NZ	1.99	0.96
3:I5:36:LYS:HD3	11:I5:202:CYC:O1D	1.66	0.96
2:J5:83:LYS:NZ	11:J5:201:CYC:O2A	1.99	0.96
2:L5:84:CYS:SG	11:L5:201:CYC:H2C	2.05	0.96
3:C6:57:ARG:HA	3:C6:57:ARG:HE	1.28	0.96
2:F1:73:ASN:O	11:F1:201:CYC:CMD	2.13	0.96
2:S1:83:LYS:NZ	11:S1:201:CYC:O2A	1.98	0.96
3:I2:151:GLY:CA	11:I2:202:CYC:CMD	2.43	0.96
5:13:768:GLU:OE2	6:b7:29:LYS:NZ	1.97	0.96
8:x3:83:ARG:NH2	11:x3:1001:CYC:O2A	1.97	0.96
3:P5:36:LYS:HD3	11:P5:202:CYC:O1D	1.66	0.96
2:L6:122:PHE:HE2	11:L6:201:CYC:HAA1	1.27	0.96
2:O8:22:THR:HG21	2:W8:103:GLY:CA	1.95	0.96
2:O1:84:CYS:SG	11:O1:201:CYC:H2C	2.05	0.96
7:K3:70:GLY:N	7:A7:64:ASP:OD2	1.98	0.96
11:F4:201:CYC:CAC	3:G4:153:CYS:SG	2.54	0.96
2:Q4:24:LEU:HD12	2:U4:152:ASN:ND2	1.80	0.96
2:Q5:83:LYS:NZ	11:Q5:201:CYC:O2A	1.98	0.96
2:S5:84:CYS:CA	11:S5:201:CYC:HAC1	1.95	0.96
11:V5:202:CYC:HAC1	2:W5:84:CYS:CA	1.95	0.96
2:Q8:24:LEU:HD12	2:U8:152:ASN:ND2	1.80	0.96
2:S1:84:CYS:CA	11:S1:201:CYC:HAC1	1.95	0.96
11:V1:202:CYC:HAA2	2:W1:122:PHE:CE2	1.99	0.96
2:O2:111:LEU:HD21	11:T2:201:CYC:CAB	1.89	0.96
11:X2:203:CYC:HAA1	2:Y2:122:PHE:HE2	1.27	0.96
8:U3:83:ARG:NH2	11:U3:1001:CYC:O2A	1.97	0.96
8:n3:83:ARG:NH2	11:n3:1001:CYC:O2A	1.97	0.96
2:O4:21:ASN:HB2	2:W4:152:ASN:HD22	1.24	0.96
2:F5:122:PHE:HE2	11:F5:201:CYC:HAA2	1.27	0.96
2:H5:122:PHE:HE2	11:H5:201:CYC:HAA2	1.27	0.96
2:O5:83:LYS:NZ	11:O5:201:CYC:O2A	1.98	0.96
2:O5:84:CYS:CA	11:O5:201:CYC:HAC1	1.95	0.96
2:U5:73:ASN:O	11:U5:201:CYC:CMD	2.13	0.96
3:R6:153:CYS:SG	3:R6:156:LEU:HB2	2.04	0.96
11:C1:202:CYC:O2A	2:D1:83:LYS:NZ	1.98	0.96
2:H1:73:ASN:O	11:H1:201:CYC:CMD	2.13	0.96
3:K1:57:ARG:NH2	11:L1:201:CYC:O2D	1.99	0.96
2:O1:84:CYS:CA	11:O1:201:CYC:HAC1	1.95	0.96
2:U1:83:LYS:NZ	11:U1:201:CYC:O2A	1.99	0.96
3:X1:36:LYS:HD3	11:X1:202:CYC:O1D	1.66	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K2:37:ARG:HA	3:K2:156:LEU:HD11	1.48	0.96
11:V2:202:CYC:NC	11:V2:202:CYC:HMD1	1.81	0.96
7:Z3:68:PRO:O	7:H7:63:PRO:HG2	1.64	0.96
7:o3:82:LEU:HB3	1:A5:218:PHE:CE2	2.01	0.96
8:p3:83:ARG:NH2	11:p3:1001:CYC:O2A	1.97	0.96
2:B4:149:GLU:CD	2:B4:153:TYR:CE2	2.43	0.96
2:J4:64:PRO:CG	2:J5:61:SER:OG	2.13	0.96
2:J5:57:GLN:HE21	2:J5:57:GLN:HA	1.31	0.96
2:U5:84:CYS:SG	11:U5:201:CYC:H2C	2.05	0.96
3:K8:67:ILE:HD12	11:L8:201:CYC:H2A	1.31	0.96
2:F1:83:LYS:NZ	11:F1:201:CYC:O2A	1.98	0.96
2:U1:84:CYS:HG	11:U1:201:CYC:HAC2	1.29	0.96
11:X1:203:CYC:CMD	2:Y1:73:ASN:O	2.13	0.96
8:c3:67:ARG:HG2	1:A6:213:GLY:CA	1.96	0.96
2:F4:103:GLY:HA2	2:J4:22:THR:CG2	1.94	0.96
3:V4:151:GLY:HA3	11:V4:202:CYC:HMD3	1.46	0.96
2:W4:83:LYS:NZ	11:W4:201:CYC:O2A	1.95	0.96
2:H5:83:LYS:NZ	11:H5:201:CYC:O2A	1.98	0.96
3:C8:42:SER:HA	3:C8:45:THR:HG22	1.42	0.96
3:C1:36:LYS:HD3	11:C1:201:CYC:O1D	1.66	0.95
2:Q1:83:LYS:NZ	11:Q1:201:CYC:O2A	1.98	0.95
2:B4:27:LEU:HD12	3:C4:38:SER:HB2	1.45	0.95
3:P4:151:GLY:HA3	11:P4:202:CYC:HMD3	1.43	0.95
2:B5:84:CYS:SG	11:B5:201:CYC:H2C	2.05	0.95
3:G5:36:LYS:HD3	11:G5:202:CYC:O1D	1.66	0.95
3:K5:57:ARG:NH2	11:L5:201:CYC:O2D	1.99	0.95
11:X5:203:CYC:HAC1	2:Y5:84:CYS:CA	1.95	0.95
3:I6:151:GLY:CA	11:I6:202:CYC:CMD	2.43	0.95
11:P6:202:CYC:HMD1	11:P6:202:CYC:NC	1.81	0.95
3:X8:36:LYS:HB3	3:X8:156:LEU:HD11	0.97	0.95
2:Y8:136:ILE:O	2:Y8:140:HIS:HD2	1.46	0.95
3:M1:36:LYS:HD3	11:M1:202:CYC:O1D	1.66	0.95
8:j3:83:ARG:NH2	11:j3:1001:CYC:O2A	1.97	0.95
2:L4:84:CYS:SG	11:L4:201:CYC:HAC2	2.07	0.95
2:B5:84:CYS:CA	11:B5:201:CYC:HAC1	1.95	0.95
2:J5:84:CYS:HG	11:J5:201:CYC:HAC2	1.27	0.95
3:K5:36:LYS:HD3	11:K5:202:CYC:O1D	1.66	0.95
2:L5:83:LYS:NZ	11:L5:201:CYC:O2A	1.98	0.95
2:O5:84:CYS:HG	11:O5:201:CYC:HAC2	1.30	0.95
2:H6:122:PHE:HE2	11:H6:201:CYC:HAA1	1.27	0.95
3:E8:36:LYS:NZ	3:E8:152:ASP:O	1.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F8:150:THR:HG23	2:F8:154:ILE:HD11	1.45	0.95
3:T8:142:VAL:O	11:T8:202:CYC:HMC1	1.67	0.95
2:B1:83:LYS:NZ	11:B1:201:CYC:O2A	1.99	0.95
2:B1:84:CYS:CA	11:B1:201:CYC:HAC1	1.95	0.95
3:G1:36:LYS:HD3	11:G1:202:CYC:O1D	1.66	0.95
2:H1:84:CYS:CA	11:H1:201:CYC:HAC1	1.95	0.95
2:O1:73:ASN:O	11:O1:201:CYC:CMD	2.13	0.95
3:R1:36:LYS:HD3	11:R1:202:CYC:O1D	1.66	0.95
2:H4:84:CYS:SG	11:M4:201:CYC:HAC2	2.07	0.95
3:I4:139:VAL:CA	3:I4:142:VAL:CG1	2.43	0.95
11:I4:203:CYC:HAC2	2:J4:84:CYS:SG	2.07	0.95
2:S4:150:THR:O	2:S4:154:ILE:N	1.97	0.95
11:C5:202:CYC:HAC1	2:D5:84:CYS:CA	1.96	0.95
3:X5:36:LYS:HD3	11:X5:202:CYC:O1D	1.66	0.95
11:V6:202:CYC:HMD1	11:V6:202:CYC:NC	1.81	0.95
2:O8:84:CYS:SG	11:O8:201:CYC:HAC2	2.07	0.95
2:Y8:84:CYS:SG	11:Y8:201:CYC:HAC2	2.07	0.95
11:D1:201:CYC:O1D	3:E1:36:LYS:HD3	1.66	0.95
4:N1:248:THR:HA	4:N1:250:ARG:NH1	1.81	0.95
2:Q1:84:CYS:SG	11:Q1:201:CYC:H2C	2.05	0.95
3:K2:151:GLY:HA3	11:K2:202:CYC:CMD	1.94	0.95
2:W2:122:PHE:HE2	11:W2:201:CYC:HAA1	1.27	0.95
5:13:443:TYR:HH	11:13:902:CYC:CBA	1.59	0.95
8:O3:76:ARG:NH2	11:O3:1001:CYC:O1D	2.00	0.95
8:c3:46:ALA:HB2	7:J7:154:ASP:OD1	1.65	0.95
2:O4:140:HIS:CE1	2:O4:142:LEU:HG	2.02	0.95
2:B5:83:LYS:NZ	11:B5:201:CYC:O2A	1.99	0.95
2:H5:84:CYS:SG	11:H5:201:CYC:H2C	2.05	0.95
2:L5:73:ASN:O	11:L5:201:CYC:CMD	2.13	0.95
2:L6:111:LEU:CD2	11:L6:201:CYC:HAB2	1.96	0.95
2:D8:84:CYS:SG	11:D8:201:CYC:HAC2	2.07	0.95
2:S8:4:PRO:HD3	2:Y8:22:THR:HG21	1.48	0.95
2:S8:150:THR:O	2:S8:154:ILE:N	1.97	0.95
3:Z8:51:ILE:HD11	3:Z8:141:ILE:HD12	1.47	0.95
3:I1:36:LYS:HD3	11:I1:202:CYC:O1D	1.66	0.95
11:X1:203:CYC:HAC1	2:Y1:84:CYS:CA	1.95	0.95
3:K2:151:GLY:HA3	11:K2:202:CYC:HMD3	1.43	0.95
7:o3:59:PHE:C	1:A5:226:GLN:NE2	2.24	0.95
7:o3:154:ASP:CG	8:W7:46:ALA:CB	2.38	0.95
7:u3:3:ILE:CD1	7:O7:25:ARG:HH22	1.80	0.95
7:u3:151:ALA:HB1	7:O7:20:PRO:HB3	0.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U4:150:THR:HA	2:U4:153:TYR:HB2	1.49	0.95
3:X4:36:LYS:HB3	3:X4:156:LEU:HD11	0.97	0.95
2:H5:84:CYS:CA	11:H5:201:CYC:HAC1	1.95	0.95
3:M5:36:LYS:HD3	11:M5:202:CYC:O1D	1.66	0.95
11:X5:203:CYC:O2A	2:Y5:83:LYS:NZ	1.98	0.95
3:Z5:36:LYS:HD3	11:Z5:202:CYC:O1D	1.66	0.95
2:D8:86:ARG:NH2	11:D8:201:CYC:H2A	1.65	0.95
2:H8:98:CYS:SG	2:H8:153:TYR:CE1	2.54	0.95
2:S8:33:GLN:CG	2:Y8:25:GLN:HE21	1.77	0.95
2:U8:84:CYS:SG	11:U8:201:CYC:HAC2	2.07	0.95
2:H1:84:CYS:SG	11:H1:201:CYC:H2C	2.05	0.95
2:L1:83:LYS:NZ	11:L1:201:CYC:O2A	1.98	0.95
11:13:904:CYC:O2A	8:h3:83:ARG:NH2	1.97	0.95
8:c3:83:ARG:NH2	11:c3:1001:CYC:O2A	1.97	0.95
2:B5:24:LEU:HD13	11:C5:201:CYC:HBB2	1.49	0.95
3:C5:36:LYS:HD3	11:C5:201:CYC:O1D	1.66	0.95
2:F5:73:ASN:O	11:F5:201:CYC:NC	2.00	0.95
2:Q5:73:ASN:O	11:Q5:201:CYC:NC	2.00	0.95
2:Q5:84:CYS:SG	11:Q5:201:CYC:H2C	2.05	0.95
11:E8:203:CYC:HAC2	2:F8:84:CYS:SG	2.07	0.95
3:I8:147:GLY:O	3:I8:148:VAL:HG13	1.65	0.95
3:X8:51:ILE:CD1	3:X8:141:ILE:CD1	2.43	0.95
3:V2:57:ARG:NH2	11:W2:201:CYC:O1D	1.99	0.95
11:E4:203:CYC:HAC2	2:F4:84:CYS:SG	2.07	0.95
3:M4:51:ILE:HD11	3:M4:141:ILE:HD12	0.96	0.95
2:U4:84:CYS:SG	11:U4:201:CYC:HAC2	2.07	0.95
2:L5:73:ASN:O	11:L5:201:CYC:NC	2.00	0.95
4:N5:248:THR:HA	4:N5:250:ARG:NH1	1.81	0.95
2:S5:73:ASN:O	11:S5:201:CYC:NC	2.00	0.95
11:V5:202:CYC:O2A	2:W5:83:LYS:NZ	1.98	0.95
3:V6:145:PRO:HB3	11:V6:202:CYC:HMC3	1.47	0.95
7:Z7:81:CYS:SG	11:Z7:1001:CYC:H2C	2.07	0.95
2:B8:84:CYS:SG	11:G8:201:CYC:HAC2	2.07	0.95
11:P8:203:CYC:HAC2	2:Q8:84:CYS:SG	2.07	0.95
3:V8:139:VAL:HA	3:V8:142:VAL:HG13	1.44	0.95
2:W8:84:CYS:SG	11:W8:201:CYC:HAC2	2.07	0.95
2:W8:140:HIS:CE1	2:W8:142:LEU:HB2	2.01	0.95
3:X8:51:ILE:HD11	3:X8:141:ILE:HD11	1.45	0.95
2:F1:73:ASN:O	11:F1:201:CYC:NC	2.00	0.95
2:J1:54:GLY:CA	2:J8:68:SER:HB2	1.95	0.95
11:X1:203:CYC:H2C	2:Y1:84:CYS:SG	2.05	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:523:VAL:HA	7:J7:106:GLU:CD	1.91	0.95
8:j3:76:ARG:NH2	11:j3:1001:CYC:O1D	2.00	0.95
8:v3:76:ARG:NH2	11:v3:1001:CYC:O1D	2.00	0.95
2:F4:25:GLN:NE2	2:J4:33:GLN:CG	2.30	0.95
2:B5:73:ASN:O	11:B5:201:CYC:CMD	2.13	0.95
2:F6:122:PHE:HE2	11:F6:201:CYC:HAA1	1.27	0.95
3:K6:37:ARG:HA	3:K6:156:LEU:HD11	1.48	0.95
7:H7:81:CYS:SG	11:H7:1001:CYC:H2C	2.07	0.95
2:H1:83:LYS:NZ	11:H1:201:CYC:O2A	1.98	0.95
5:03:557:ILE:HD11	8:B7:83:ARG:CZ	1.97	0.95
8:W3:76:ARG:NH2	11:W3:1001:CYC:O1D	2.00	0.95
8:t3:76:ARG:NH2	11:t3:1001:CYC:O1D	2.00	0.95
2:D4:84:CYS:SG	11:D4:201:CYC:HAC2	2.07	0.95
11:T4:202:CYC:OB	2:Y4:32:ARG:HD3	1.67	0.95
3:X4:51:ILE:CD1	3:X4:141:ILE:CD1	2.43	0.95
2:U5:73:ASN:O	11:U5:201:CYC:NC	2.00	0.95
2:W6:84:CYS:CB	11:W6:201:CYC:CAC	2.24	0.95
7:C7:81:CYS:SG	11:C7:1001:CYC:H2C	2.07	0.95
11:I8:203:CYC:H2A	2:J8:86:ARG:HH22	1.01	0.95
3:T8:153:CYS:SG	11:T8:202:CYC:HBC2	2.07	0.95
2:Q1:84:CYS:CA	11:Q1:201:CYC:HAC1	1.95	0.95
2:S2:111:LEU:CD2	11:S2:201:CYC:HAB2	1.96	0.95
7:d3:74:GLY:N	1:A6:194:VAL:HG23	1.82	0.95
8:p3:76:ARG:NH2	11:p3:1001:CYC:O1D	2.00	0.95
2:S4:84:CYS:SG	11:S4:201:CYC:HAC2	2.07	0.95
2:U5:84:CYS:CA	11:U5:201:CYC:HAC1	1.95	0.95
2:J1:83:LYS:NZ	11:J1:201:CYC:O2A	1.99	0.94
2:B2:84:CYS:O	11:B2:201:CYC:HBC1	1.67	0.94
11:K2:203:CYC:HAB2	2:L2:111:LEU:CD2	1.96	0.94
3:R2:151:GLY:CA	11:R2:201:CYC:HMD2	1.94	0.94
5:13:719:THR:O	6:b7:20:ARG:NH2	1.99	0.94
2:O4:22:THR:HG21	2:W4:103:GLY:CA	1.95	0.94
3:P4:82:CYS:HG	11:P4:201:CYC:HAC1	1.26	0.94
2:W4:84:CYS:SG	11:W4:201:CYC:HAC2	2.07	0.94
2:W4:140:HIS:CE1	2:W4:142:LEU:HB2	2.01	0.94
2:B6:24:LEU:HB3	11:C6:202:CYC:HBB2	1.49	0.94
2:O6:84:CYS:O	11:O6:201:CYC:HBC1	1.67	0.94
3:X6:40:ALA:CB	11:X6:202:CYC:CBC	2.45	0.94
7:E7:81:CYS:SG	11:E7:1001:CYC:H2C	2.07	0.94
11:I8:203:CYC:HAC2	2:J8:84:CYS:SG	2.07	0.94
2:L8:84:CYS:SG	11:L8:201:CYC:HAC2	2.07	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V8:82:CYS:HG	11:V8:201:CYC:CAC	1.69	0.94
3:V8:151:GLY:HA3	11:V8:202:CYC:HMD3	1.46	0.94
2:F1:84:CYS:CA	11:F1:201:CYC:HAC1	1.95	0.94
2:J1:84:CYS:CA	11:J1:201:CYC:HAC1	1.95	0.94
3:P1:36:LYS:HD3	11:P1:202:CYC:O1D	1.66	0.94
11:U1:202:CYC:O1D	3:V1:36:LYS:HD3	1.66	0.94
1:A2:200:VAL:HG12	7:N3:52:LYS:CG	1.97	0.94
11:E2:203:CYC:HAB2	2:F2:111:LEU:CD2	1.96	0.94
3:I2:84:ARG:NH2	11:I2:201:CYC:O1A	2.01	0.94
5:13:725:VAL:HG11	7:X7:105:GLU:OE2	1.67	0.94
7:d3:59:PHE:CD2	1:A6:196:TRP:HE3	1.45	0.94
2:S4:4:PRO:HD3	2:Y4:22:THR:HG21	1.48	0.94
2:F6:84:CYS:O	11:F6:201:CYC:HBC1	1.67	0.94
3:M8:51:ILE:HD11	3:M8:141:ILE:HD12	0.96	0.94
2:S8:84:CYS:SG	11:S8:201:CYC:HAC2	2.07	0.94
3:T8:151:GLY:HA3	11:T8:202:CYC:HMD1	0.94	0.94
2:L1:73:ASN:O	11:L1:201:CYC:NC	2.00	0.94
11:V1:202:CYC:NC	2:W1:73:ASN:O	2.00	0.94
2:D2:84:CYS:O	11:D2:201:CYC:HBC1	1.67	0.94
3:E2:57:ARG:HH22	11:E2:203:CYC:CGD	1.79	0.94
11:K2:203:CYC:HBC1	2:L2:84:CYS:O	1.67	0.94
3:X2:84:ARG:NH2	11:X2:201:CYC:O1A	2.01	0.94
7:o3:76:GLU:HG2	1:A4:204:ARG:HH22	1.30	0.94
2:B4:84:CYS:SG	11:G4:201:CYC:HAC2	2.07	0.94
3:V4:151:GLY:CA	11:V4:202:CYC:HMD2	1.95	0.94
3:T5:36:LYS:HD3	11:T5:201:CYC:O1D	1.66	0.94
11:U5:202:CYC:O1D	3:V5:36:LYS:HD3	1.66	0.94
2:B8:149:GLU:HG2	2:H8:21:ASN:HD21	1.20	0.94
11:C1:202:CYC:HAC1	2:D1:84:CYS:CA	1.95	0.94
11:C1:202:CYC:H2C	2:D1:84:CYS:SG	2.05	0.94
2:J1:61:SER:CB	2:J8:61:SER:O	2.12	0.94
2:L1:84:CYS:CA	11:L1:201:CYC:HAC1	1.95	0.94
8:S3:76:ARG:NH2	11:S3:1001:CYC:O1D	2.00	0.94
8:l3:76:ARG:NH2	11:l3:1001:CYC:O1D	2.00	0.94
2:F4:140:HIS:ND1	2:F4:142:LEU:HG	1.83	0.94
3:T4:153:CYS:SG	11:T4:202:CYC:HBC2	2.07	0.94
2:B5:73:ASN:O	11:B5:201:CYC:NC	2.00	0.94
3:G6:151:GLY:HA3	11:G6:201:CYC:HMD2	0.96	0.94
7:L7:81:CYS:SG	11:L7:1001:CYC:H2C	2.07	0.94
7:X7:81:CYS:SG	11:X7:1001:CYC:H2C	2.07	0.94
3:K8:139:VAL:C	3:K8:142:VAL:HG13	1.93	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:C1:202:CYC:NC	2:D1:73:ASN:O	2.00	0.94
11:H1:201:CYC:O2D	3:M1:57:ARG:NH1	2.00	0.94
3:K1:36:LYS:HD3	11:K1:202:CYC:O1D	1.66	0.94
8:e3:76:ARG:NH2	11:e3:1001:CYC:O1D	2.00	0.94
2:J4:149:GLU:O	2:J4:153:TYR:CD2	2.21	0.94
2:U4:150:THR:HG22	2:U4:154:ILE:HG13	1.49	0.94
3:V4:139:VAL:O	3:V4:143:MET:N	2.00	0.94
1:A5:210:PRO:HB3	1:A5:217:LEU:HD13	1.49	0.94
2:J5:73:ASN:O	11:J5:201:CYC:NC	2.00	0.94
2:J5:84:CYS:SG	11:J5:201:CYC:H2C	2.05	0.94
7:S7:81:CYS:SG	11:S7:1001:CYC:H2C	2.07	0.94
7:V7:81:CYS:SG	11:V7:1001:CYC:H2C	2.07	0.94
11:F8:201:CYC:HMD1	3:G8:151:GLY:HA3	1.49	0.94
11:T8:202:CYC:OB	2:Y8:32:ARG:HD3	1.67	0.94
2:H1:73:ASN:O	11:H1:201:CYC:NC	2.00	0.94
11:V1:202:CYC:HAC1	2:W1:84:CYS:CA	1.95	0.94
2:B2:24:LEU:CB	11:C2:202:CYC:CBB	2.45	0.94
8:H3:76:ARG:NH2	11:H3:1001:CYC:O1D	2.00	0.94
7:w3:69:GLY:HA3	7:O7:63:PRO:HD2	1.47	0.94
7:O7:81:CYS:SG	11:O7:1001:CYC:H2C	2.07	0.94
3:T8:143:MET:HE1	3:T8:153:CYS:HB3	1.48	0.94
2:U8:150:THR:HA	2:U8:153:TYR:HB2	1.49	0.94
1:A1:203:PHE:CD2	1:A8:215:PRO:HG2	2.01	0.94
3:P2:84:ARG:NH2	11:P2:201:CYC:O1A	2.01	0.94
8:n3:76:ARG:NH2	11:n3:1001:CYC:O1D	2.00	0.94
2:B4:64:PRO:CB	2:J5:138:ALA:HB1	1.98	0.94
2:L4:83:LYS:NZ	11:L4:201:CYC:O2A	1.95	0.94
3:Z4:51:ILE:HD11	3:Z4:141:ILE:HD12	1.47	0.94
11:C5:202:CYC:H2C	2:D5:84:CYS:SG	2.05	0.94
11:C5:202:CYC:NC	2:D5:73:ASN:O	2.00	0.94
11:A6:301:CYC:O1A	3:G6:84:ARG:NH2	2.01	0.94
3:I6:109:CYS:SG	11:I6:201:CYC:HAB1	2.08	0.94
2:Q6:111:LEU:CD2	11:Q6:201:CYC:HAB2	1.96	0.94
11:R6:202:CYC:HBC1	2:S6:84:CYS:O	1.67	0.94
7:Q7:81:CYS:SG	11:Q7:1001:CYC:H2C	2.07	0.94
2:F8:36:PHE:HZ	2:F8:149:GLU:OE2	1.51	0.94
3:T8:143:MET:CE	3:T8:153:CYS:HB2	1.96	0.94
2:U8:24:LEU:HB2	11:V8:202:CYC:HBB1	1.46	0.94
3:C2:84:ARG:NH2	11:C2:201:CYC:O1A	2.01	0.94
3:K2:84:ARG:NH2	11:K2:201:CYC:O1A	2.01	0.94
2:Q2:111:LEU:CD2	11:Q2:201:CYC:HAB2	1.96	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T2:57:ARG:HH12	11:T2:201:CYC:CGA	1.81	0.94
11:03:902:CYC:O1D	8:L3:76:ARG:NH2	2.00	0.94
11:13:903:CYC:O1D	8:a3:76:ARG:NH2	2.00	0.94
3:M4:82:CYS:HG	11:M4:202:CYC:HAC1	0.89	0.94
3:V4:139:VAL:HA	3:V4:142:VAL:HG11	1.46	0.94
2:H5:73:ASN:O	11:H5:201:CYC:NC	2.00	0.94
11:H5:201:CYC:O2D	3:M5:57:ARG:NH1	2.00	0.94
2:B6:24:LEU:CB	11:C6:202:CYC:CBB	2.45	0.94
2:F6:84:CYS:CB	11:F6:201:CYC:CAC	2.24	0.94
2:U6:84:CYS:O	11:U6:201:CYC:HBC1	1.67	0.94
2:W6:84:CYS:O	11:W6:201:CYC:HBC1	1.67	0.94
3:Z6:84:ARG:NH2	11:Z6:201:CYC:O1A	2.01	0.94
7:A7:81:CYS:SG	11:A7:1001:CYC:H2C	2.07	0.94
7:J7:81:CYS:SG	11:J7:1001:CYC:H2C	2.07	0.94
2:B8:19:LEU:CD2	3:C8:95:TYR:HE1	1.81	0.94
2:H8:84:CYS:SG	11:M8:201:CYC:HAC2	2.07	0.94
2:B1:24:LEU:HD13	11:C1:201:CYC:HBB2	1.49	0.94
1:A2:196:TRP:CE3	7:N3:59:PHE:HD2	1.84	0.94
3:M2:84:ARG:NH2	11:M2:201:CYC:O1A	2.01	0.94
2:U2:84:CYS:O	11:Z2:201:CYC:HBC1	1.67	0.94
2:W2:84:CYS:O	11:W2:201:CYC:HBC1	1.67	0.94
11:X2:203:CYC:HBC1	2:Y2:84:CYS:O	1.67	0.94
3:Z2:84:ARG:NH2	11:Z2:202:CYC:O1A	2.01	0.94
7:X3:69:GLY:C	7:J7:64:ASP:OD2	2.10	0.94
11:P4:203:CYC:HAC2	2:Q4:84:CYS:SG	2.07	0.94
3:T4:143:MET:CE	3:T4:153:CYS:HB2	1.96	0.94
2:J5:28:TYR:OH	11:K5:202:CYC:NB	2.00	0.94
11:X5:203:CYC:NC	2:Y5:73:ASN:O	2.00	0.94
3:I6:84:ARG:NH2	11:I6:201:CYC:O1A	2.01	0.94
2:L6:84:CYS:O	11:L6:201:CYC:HBC1	1.67	0.94
11:I8:203:CYC:HAB1	2:J8:111:LEU:CD2	1.98	0.94
3:M8:36:LYS:NZ	3:M8:152:ASP:O	2.01	0.94
2:S8:111:LEU:CD2	11:S8:201:CYC:HAB1	1.98	0.94
11:A2:301:CYC:O1A	3:G2:84:ARG:NH2	2.01	0.94
3:G2:151:GLY:HA3	11:G2:201:CYC:HMD2	0.95	0.94
7:o3:68:PRO:HB2	1:A4:196:TRP:HE1	1.32	0.94
7:o3:151:ALA:HB1	7:V7:20:PRO:HB2	1.50	0.94
3:C4:43:ARG:CZ	3:C4:148:VAL:HG11	1.98	0.94
2:O4:111:LEU:CD2	11:O4:201:CYC:HAB1	1.98	0.94
3:Z4:82:CYS:HG	11:Z4:201:CYC:CAC	1.67	0.94
3:R5:36:LYS:HD3	11:R5:202:CYC:O1D	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:V5:202:CYC:NC	2:W5:73:ASN:O	2.00	0.94
11:N6:301:CYC:O1A	3:R6:84:ARG:NH2	2.01	0.94
2:L8:111:LEU:CD2	11:L8:201:CYC:HAB1	1.98	0.94
2:Y8:137:LYS:O	2:Y8:140:HIS:NE2	2.00	0.94
2:O1:73:ASN:O	11:O1:201:CYC:NC	2.00	0.93
3:V2:148:VAL:HG13	11:V2:202:CYC:CHD	1.97	0.93
5:13:561:ASN:ND2	11:I7:1001:CYC:HAA1	1.82	0.93
11:13:904:CYC:O1D	8:h3:76:ARG:NH2	2.00	0.93
8:M3:76:ARG:NH2	11:M3:201:CYC:O1D	2.00	0.93
8:r3:76:ARG:NH2	11:r3:1001:CYC:O1D	2.00	0.93
7:u3:151:ALA:HB1	7:O7:20:PRO:CG	1.95	0.93
3:G4:138:ALA:O	3:G4:142:VAL:HG12	1.68	0.93
3:T4:151:GLY:HA3	11:T4:202:CYC:HMD1	0.94	0.93
3:X4:139:VAL:O	3:X4:142:VAL:HG13	1.68	0.93
2:Y4:84:CYS:SG	11:Y4:201:CYC:HAC2	2.07	0.93
2:O5:28:TYR:OH	11:P5:202:CYC:NB	1.98	0.93
2:J6:84:CYS:O	11:J6:201:CYC:HBC1	1.67	0.93
2:Q6:84:CYS:O	11:Q6:201:CYC:HBC1	1.67	0.93
3:X6:84:ARG:NH2	11:X6:201:CYC:O1A	2.01	0.93
2:J1:28:TYR:OH	11:K1:202:CYC:NB	2.00	0.93
3:Z1:36:LYS:HD3	11:Z1:202:CYC:O1D	1.66	0.93
3:E2:84:ARG:NH2	11:E2:201:CYC:O1A	2.01	0.93
11:N2:302:CYC:O1A	3:T2:84:ARG:NH2	2.01	0.93
2:S2:84:CYS:O	11:S2:201:CYC:HBC1	1.67	0.93
3:X2:40:ALA:CB	11:X2:202:CYC:CBC	2.45	0.93
8:U3:76:ARG:NH2	11:U3:1001:CYC:O1D	2.00	0.93
7:w3:79:ALA:HB2	1:A4:219:LEU:HA	1.48	0.93
8:x3:76:ARG:NH2	11:x3:1001:CYC:O1D	2.00	0.93
2:F4:36:PHE:HZ	2:F4:149:GLU:OE2	1.51	0.93
3:G4:82:CYS:HG	11:G4:202:CYC:HAC1	1.28	0.93
3:I4:82:CYS:HG	11:I4:201:CYC:HAC1	0.77	0.93
2:O4:33:GLN:HG3	2:W4:25:GLN:HE21	1.16	0.93
3:X4:153:CYS:HG	11:X4:202:CYC:HBC2	1.19	0.93
2:O5:73:ASN:O	11:O5:201:CYC:NC	2.00	0.93
2:B6:84:CYS:O	11:B6:201:CYC:HBC1	1.67	0.93
2:Y6:84:CYS:O	11:Y6:201:CYC:HBC1	1.67	0.93
2:F8:19:LEU:HD12	2:F8:23:GLU:CD	1.92	0.93
3:G8:139:VAL:O	3:G8:142:VAL:HG13	1.69	0.93
2:O8:140:HIS:CE1	2:O8:142:LEU:HG	2.02	0.93
2:B1:84:CYS:HG	11:B1:201:CYC:HAC2	1.29	0.93
11:C1:202:CYC:HAC2	2:D1:84:CYS:HG	1.27	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:A2:301:CYC:O2A	3:G2:84:ARG:NH1	2.02	0.93
2:D2:84:CYS:CB	11:D2:201:CYC:CAC	2.24	0.93
7:o3:82:LEU:CB	1:A5:218:PHE:CD2	2.51	0.93
8:t3:62:TYR:CZ	1:A4:203:PHE:CA	2.49	0.93
8:z3:76:ARG:NH2	11:z3:1001:CYC:O1D	2.00	0.93
3:I4:103:SER:O	3:I4:107:ASP:HB2	1.69	0.93
2:U4:111:LEU:CD2	11:U4:201:CYC:HAB1	1.98	0.93
2:O8:25:GLN:NE2	2:W8:33:GLN:CG	2.32	0.93
11:X1:203:CYC:NC	2:Y1:73:ASN:O	2.00	0.93
7:o3:151:ALA:HB1	7:V7:20:PRO:HB3	1.46	0.93
7:u3:69:GLY:HA3	7:Q7:63:PRO:HD2	1.48	0.93
7:w3:77:MET:HE2	1:A5:201:ARG:CA	1.99	0.93
3:C4:103:SER:O	3:C4:107:ASP:HB2	1.69	0.93
11:F4:201:CYC:HMD1	3:G4:151:GLY:HA3	1.49	0.93
3:R4:103:SER:O	3:R4:107:ASP:HB2	1.69	0.93
11:D5:201:CYC:O1D	3:E5:36:LYS:HD3	1.66	0.93
3:E5:57:ARG:NH2	11:F5:201:CYC:O2D	2.01	0.93
3:M6:84:ARG:NH2	11:M6:201:CYC:O1A	2.01	0.93
2:D8:25:GLN:HE21	2:L8:33:GLN:HG3	1.07	0.93
3:I8:51:ILE:HD11	3:I8:141:ILE:HD11	1.47	0.93
3:I8:103:SER:O	3:I8:107:ASP:HB2	1.69	0.93
3:V8:139:VAL:CA	3:V8:142:VAL:HG13	1.98	0.93
3:X8:82:CYS:HG	11:X8:201:CYC:HAC1	1.25	0.93
3:X8:103:SER:O	3:X8:107:ASP:HB2	1.69	0.93
2:B1:73:ASN:O	11:B1:201:CYC:NC	2.00	0.93
2:J1:73:ASN:O	11:J1:201:CYC:NC	2.00	0.93
3:K2:84:ARG:NH1	11:K2:201:CYC:O2A	2.02	0.93
3:P2:84:ARG:NH1	11:P2:201:CYC:O2A	2.02	0.93
7:o3:3:ILE:HD11	7:V7:25:ARG:NH2	1.81	0.93
11:A5:301:CYC:O2A	3:C5:84:ARG:NH1	2.02	0.93
2:O6:84:CYS:CB	11:O6:201:CYC:CAC	2.24	0.93
3:R6:57:ARG:NH2	11:R6:202:CYC:O2D	2.00	0.93
2:Y6:111:LEU:CD2	11:Y6:201:CYC:HAB2	1.96	0.93
3:E8:103:SER:O	3:E8:107:ASP:HB2	1.69	0.93
3:K8:67:ILE:HD12	11:L8:201:CYC:O2A	1.67	0.93
3:X8:153:CYS:HG	11:X8:202:CYC:HBC2	1.21	0.93
3:E1:57:ARG:NH2	11:F1:201:CYC:O2D	2.00	0.93
2:Q1:73:ASN:O	11:Q1:201:CYC:NC	2.00	0.93
2:U1:122:PHE:HE2	11:U1:201:CYC:HAA2	1.27	0.93
11:N2:301:CYC:O1A	3:R2:84:ARG:NH2	2.01	0.93
5:03:719:THR:CB	6:U7:23:GLN:HE22	1.82	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F4:57:GLN:NE2	3:G6:150:SER:CB	2.28	0.93
3:K4:155:SER:O	3:K4:158:GLN:HB3	1.69	0.93
3:V4:103:SER:O	3:V4:107:ASP:HB2	1.69	0.93
2:Y4:137:LYS:O	2:Y4:140:HIS:NE2	2.00	0.93
11:N6:301:CYC:O2A	3:R6:84:ARG:NH1	2.02	0.93
11:N6:302:CYC:O1A	3:T6:84:ARG:NH2	2.01	0.93
3:P6:145:PRO:HB3	11:P6:202:CYC:CMC	1.99	0.93
2:H8:111:LEU:CD2	11:M8:201:CYC:HAB1	1.98	0.93
2:J8:149:GLU:O	2:J8:153:TYR:CD2	2.20	0.93
2:L8:36:PHE:HB3	2:L8:145:ASP:OD1	1.69	0.93
3:X8:139:VAL:O	3:X8:142:VAL:HG13	1.68	0.93
3:P2:151:GLY:HA3	11:P2:202:CYC:HMD3	1.48	0.93
3:V2:145:PRO:HB3	11:V2:202:CYC:HMC3	1.47	0.93
5:13:443:TYR:OH	11:13:902:CYC:HBA2	1.66	0.93
8:c3:76:ARG:NH2	11:c3:1001:CYC:O1D	2.00	0.93
1:A4:214:ASP:HB3	1:A4:217:LEU:HD13	1.51	0.93
2:B4:111:LEU:CD2	11:G4:201:CYC:HAB1	1.98	0.93
2:B6:111:LEU:CD2	11:B6:201:CYC:HAB2	1.96	0.93
3:E6:84:ARG:NH2	11:E6:201:CYC:O1A	2.01	0.93
2:O6:111:LEU:CD2	11:O6:201:CYC:HAB2	1.96	0.93
3:T6:151:GLY:CA	11:T6:201:CYC:HMD2	1.80	0.93
3:C8:139:VAL:O	3:C8:142:VAL:CG1	2.15	0.93
2:O8:25:GLN:HE21	2:W8:33:GLN:CG	1.81	0.93
3:V8:139:VAL:O	3:V8:142:VAL:CG1	2.16	0.93
2:U1:73:ASN:O	11:U1:201:CYC:NC	2.00	0.93
2:H2:84:CYS:O	11:H2:201:CYC:HBC1	1.67	0.93
11:I2:203:CYC:HBC1	2:J2:84:CYS:O	1.67	0.93
7:K3:113:ARG:NH1	7:A7:117:LYS:HD2	1.84	0.93
7:Z3:70:GLY:N	7:H7:64:ASP:OD2	2.00	0.93
3:C4:139:VAL:HA	3:C4:142:VAL:CG1	1.99	0.93
11:E4:203:CYC:HAB1	2:F4:111:LEU:CD2	1.98	0.93
3:V4:139:VAL:C	3:V4:142:VAL:HG13	1.94	0.93
3:C6:33:GLU:CA	3:C6:36:LYS:HG2	1.97	0.93
11:P6:202:CYC:C2B	2:W6:145:ASP:OD1	2.17	0.93
2:U8:111:LEU:CD2	11:U8:201:CYC:HAB1	1.98	0.93
2:S1:73:ASN:O	11:S1:201:CYC:NC	2.00	0.93
3:Z1:84:ARG:NH1	11:Z1:201:CYC:O2A	2.02	0.93
11:N2:301:CYC:O2A	3:R2:84:ARG:NH1	2.02	0.93
2:Q2:84:CYS:O	11:Q2:201:CYC:HBC1	1.67	0.93
7:o3:69:GLY:HA3	7:X7:63:PRO:HD2	1.47	0.93
7:o3:117:LYS:HZ2	7:X7:113:ARG:HH12	0.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q3:51:ILE:HD13	1:A8:218:PHE:CZ	2.04	0.93
2:L4:111:LEU:CD2	11:L4:201:CYC:HAB1	1.98	0.93
3:M4:36:LYS:NZ	3:M4:152:ASP:O	2.01	0.93
3:E5:57:ARG:NH1	11:F5:201:CYC:O2D	2.01	0.93
3:K5:84:ARG:NH1	11:K5:201:CYC:O2A	2.02	0.93
3:M5:84:ARG:NH1	11:M5:201:CYC:O2A	2.02	0.93
2:B8:111:LEU:CD2	11:G8:201:CYC:HAB1	1.98	0.93
3:Z8:103:SER:O	3:Z8:107:ASP:HB2	1.69	0.93
11:A1:302:CYC:O2A	3:E1:84:ARG:NH1	2.02	0.93
3:I1:84:ARG:NH1	11:I1:201:CYC:O2A	2.02	0.93
1:A2:207:ASP:OD2	8:O3:17:LYS:CG	2.16	0.93
3:E2:153:CYS:SG	11:E2:202:CYC:CBC	2.57	0.93
3:P2:36:LYS:CE	11:P2:202:CYC:O1D	2.17	0.93
3:K4:67:ILE:HD12	11:L4:201:CYC:O2A	1.67	0.93
3:K4:139:VAL:C	3:K4:142:VAL:HG13	1.93	0.93
2:S4:111:LEU:CD2	11:S4:201:CYC:HAB1	1.98	0.93
3:T4:142:VAL:O	11:T4:202:CYC:HMC1	1.67	0.93
3:Z4:103:SER:O	3:Z4:107:ASP:HB2	1.69	0.93
2:O5:122:PHE:HE2	11:O5:201:CYC:HAA2	1.27	0.93
2:H6:84:CYS:O	11:H6:201:CYC:HBC1	1.67	0.93
3:K6:84:ARG:NH2	11:K6:201:CYC:O1A	2.01	0.93
3:K6:149:THR:O	11:K6:202:CYC:HMD2	1.69	0.93
3:C8:103:SER:O	3:C8:107:ASP:HB2	1.69	0.93
3:K8:82:CYS:HG	11:K8:201:CYC:HAC1	1.31	0.93
7:X3:3:ILE:CD1	7:H7:25:ARG:HH22	1.81	0.92
2:H4:98:CYS:SG	2:H4:153:TYR:CE1	2.54	0.92
2:H4:111:LEU:CD2	11:M4:201:CYC:HAB1	1.98	0.92
11:I4:203:CYC:H2A	2:J4:86:ARG:HH22	1.04	0.92
2:O4:84:CYS:SG	11:O4:201:CYC:HAC2	2.07	0.92
3:C6:84:ARG:NH2	11:C6:201:CYC:O1A	2.01	0.92
3:C6:84:ARG:NH1	11:C6:201:CYC:O2A	2.02	0.92
2:F6:111:LEU:CD2	11:F6:201:CYC:HAB2	1.96	0.92
3:P6:33:GLU:HB3	3:P6:36:LYS:CE	1.97	0.92
3:V8:139:VAL:HA	3:V8:142:VAL:HG11	1.47	0.92
3:E1:57:ARG:NH1	11:F1:201:CYC:O2D	2.01	0.92
3:K1:84:ARG:HD2	4:N1:251:TYR:CD2	2.04	0.92
3:T1:36:LYS:HD3	11:T1:201:CYC:O1D	1.66	0.92
5:03:837:LEU:HD13	6:U7:42:ARG:NH2	1.81	0.92
7:o3:20:PRO:CB	7:V7:151:ALA:HB1	1.98	0.92
7:o3:77:MET:CE	1:A4:201:ARG:CB	2.46	0.92
3:I4:51:ILE:HD11	3:I4:141:ILE:HD11	1.47	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K4:103:SER:O	3:K4:107:ASP:HB2	1.69	0.92
11:P4:203:CYC:O2A	2:Q4:86:ARG:NH2	2.03	0.92
3:P5:84:ARG:NH1	11:P5:201:CYC:O2A	2.02	0.92
3:E6:153:CYS:SG	11:E6:202:CYC:CBC	2.57	0.92
3:X6:84:ARG:NH1	11:X6:201:CYC:O2A	2.02	0.92
1:A8:194:VAL:HG23	1:A8:196:TRP:HE3	1.31	0.92
2:D8:111:LEU:CD2	11:D8:201:CYC:HAB1	1.98	0.92
2:O8:21:ASN:HB2	2:W8:152:ASN:HD22	1.24	0.92
3:V8:151:GLY:CA	11:V8:202:CYC:HMD2	1.95	0.92
2:F1:84:CYS:HG	11:F1:201:CYC:HAC2	1.29	0.92
3:G1:84:ARG:NH1	11:G1:201:CYC:O2A	2.02	0.92
2:B2:24:LEU:HB3	11:C2:202:CYC:HBB2	1.49	0.92
2:D2:111:LEU:CD2	11:D2:201:CYC:HAB2	1.96	0.92
3:I2:1:MET:CE	3:I2:108:ARG:HH21	1.82	0.92
11:N2:302:CYC:O2A	3:T2:84:ARG:NH1	2.02	0.92
3:V2:33:GLU:HA	3:V2:36:LYS:CE	1.98	0.92
5:13:510:ARG:NH1	6:N7:21:GLU:CD	2.26	0.92
7:K3:64:ASP:O	7:A7:64:ASP:OD1	1.86	0.92
10:V3:81:CYS:HG	11:V3:201:CYC:HBC2	1.17	0.92
7:X3:64:ASP:OD2	7:J7:70:GLY:N	2.03	0.92
7:d3:82:LEU:HD11	1:A6:199:ALA:O	1.68	0.92
2:O5:84:CYS:SG	11:O5:201:CYC:H2C	2.05	0.92
3:V6:57:ARG:HA	3:V6:57:ARG:HE	1.30	0.92
3:C8:43:ARG:CZ	3:C8:148:VAL:HG11	1.98	0.92
2:S8:149:GLU:CG	2:S8:153:TYR:CE2	2.50	0.92
2:W8:111:LEU:CD2	11:W8:201:CYC:HAB1	1.98	0.92
2:Y8:111:LEU:CD2	11:Y8:201:CYC:HAB1	1.98	0.92
11:K2:203:CYC:CAC	2:L2:84:CYS:CB	2.24	0.92
3:Z2:84:ARG:NH1	11:Z2:202:CYC:O2A	2.02	0.92
5:13:837:LEU:CD1	6:b7:42:ARG:NH2	2.26	0.92
2:L4:36:PHE:HB3	2:L4:145:ASP:OD1	1.69	0.92
3:M4:103:SER:O	3:M4:107:ASP:HB2	1.69	0.92
3:X4:103:SER:O	3:X4:107:ASP:HB2	1.69	0.92
2:Y4:111:LEU:CD2	11:Y4:201:CYC:HAB1	1.98	0.92
11:C6:203:CYC:HBC1	2:D6:84:CYS:O	1.67	0.92
3:I6:1:MET:CE	3:I6:108:ARG:HH21	1.82	0.92
3:P6:84:ARG:NH2	11:P6:201:CYC:O1A	2.01	0.92
3:R6:153:CYS:SG	3:R6:156:LEU:HD12	2.10	0.92
2:D8:86:ARG:NH2	11:D8:201:CYC:O2A	2.03	0.92
2:F8:140:HIS:ND1	2:F8:142:LEU:HG	1.83	0.92
11:P8:203:CYC:HAB1	2:Q8:111:LEU:CD2	1.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z8:139:VAL:HA	3:Z8:142:VAL:CG1	2.00	0.92
3:I2:109:CYS:SG	11:I2:201:CYC:HAB1	2.08	0.92
11:I2:203:CYC:HAB2	2:J2:111:LEU:CD2	1.96	0.92
3:P2:145:PRO:HB3	11:P2:202:CYC:CMC	1.99	0.92
2:O4:25:GLN:NE2	2:W4:33:GLN:CG	2.32	0.92
2:O4:25:GLN:HE21	2:W4:33:GLN:CG	1.81	0.92
2:U4:86:ARG:NH2	11:U4:201:CYC:O2A	2.03	0.92
3:V4:151:GLY:HA3	11:V4:202:CYC:HMD2	1.51	0.92
2:W4:111:LEU:CD2	11:W4:201:CYC:HAB1	1.98	0.92
3:X5:84:ARG:NH1	11:X5:201:CYC:O2A	2.02	0.92
3:P6:84:ARG:NH1	11:P6:201:CYC:O2A	2.02	0.92
3:G8:82:CYS:HG	11:G8:202:CYC:HAC1	0.80	0.92
11:P8:203:CYC:O2A	2:Q8:86:ARG:NH2	2.03	0.92
2:Y8:146:ALA:O	2:Y8:149:GLU:HG3	1.70	0.92
11:E2:203:CYC:HBC1	2:F2:84:CYS:O	1.67	0.92
3:M2:84:ARG:NH1	11:M2:201:CYC:O2A	2.02	0.92
2:U2:111:LEU:CD2	11:Z2:201:CYC:HAB2	1.96	0.92
8:J3:76:ARG:NH2	11:J3:201:CYC:O1D	2.00	0.92
7:K3:113:ARG:HH12	7:A7:117:LYS:CD	1.81	0.92
3:E4:103:SER:O	3:E4:107:ASP:HB2	1.69	0.92
3:P6:33:GLU:HB2	3:P6:36:LYS:HE2	1.52	0.92
3:M8:103:SER:O	3:M8:107:ASP:HB2	1.69	0.92
2:O8:111:LEU:CD2	11:O8:201:CYC:HAB1	1.98	0.92
2:B2:111:LEU:CD2	11:B2:201:CYC:HAB2	1.96	0.92
5:03:514:GLU:OE2	6:G7:20:ARG:NH2	2.01	0.92
7:d3:83:ARG:HA	1:A6:203:PHE:CZ	2.05	0.92
8:t3:46:ALA:HB2	7:X7:154:ASP:OD1	1.69	0.92
8:t3:62:TYR:CD1	1:A4:203:PHE:HB2	2.02	0.92
7:u3:64:ASP:OD2	7:Q7:70:GLY:CA	2.18	0.92
3:E4:156:LEU:HD13	11:E4:202:CYC:HBC1	0.95	0.92
11:P4:203:CYC:H2A	2:Q4:86:ARG:HH22	1.06	0.92
3:V4:139:VAL:O	3:V4:142:VAL:CG1	2.16	0.92
3:X4:82:CYS:HG	11:X4:201:CYC:HAC1	1.26	0.92
11:N5:301:CYC:O2A	3:T5:84:ARG:NH1	2.02	0.92
3:V6:33:GLU:HA	3:V6:36:LYS:CE	1.98	0.92
8:I7:83:ARG:NH1	11:I7:1001:CYC:O2A	2.03	0.92
3:V8:103:SER:O	3:V8:107:ASP:HB2	1.69	0.92
2:O1:149:GLU:OE2	11:X1:202:CYC:HAB2	1.70	0.92
2:S1:24:LEU:HD13	11:T1:201:CYC:HBB2	1.51	0.92
7:X3:66:VAL:CG1	1:A6:227:ILE:HG21	1.98	0.92
8:c3:67:ARG:CD	1:A6:213:GLY:CA	2.47	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:203:CYC:HAB1	2:J4:111:LEU:CD2	1.98	0.92
2:J4:149:GLU:O	2:J4:153:TYR:HD2	1.53	0.92
3:P4:103:SER:O	3:P4:107:ASP:HB2	1.69	0.92
3:R5:84:ARG:NH1	11:R5:201:CYC:O2A	2.02	0.92
3:E6:84:ARG:NH1	11:E6:201:CYC:O2A	2.02	0.92
3:K6:84:ARG:NH1	11:K6:201:CYC:O2A	2.02	0.92
11:E8:203:CYC:HAB2	2:F8:111:LEU:HD23	1.52	0.92
3:K8:153:CYS:SG	11:K8:202:CYC:HBC2	2.10	0.92
3:V8:139:VAL:O	3:V8:143:MET:N	2.00	0.92
3:V8:139:VAL:C	3:V8:142:VAL:HG13	1.94	0.92
3:V1:84:ARG:NH1	11:V1:201:CYC:O2A	2.02	0.92
3:C2:84:ARG:NH1	11:C2:201:CYC:O2A	2.02	0.92
3:E2:39:ASP:OD2	11:E2:202:CYC:HHB	1.69	0.92
11:X2:203:CYC:CAC	2:Y2:84:CYS:CB	2.24	0.92
5:03:832:ASN:HD22	6:U7:35:ASN:ND2	1.60	0.92
1:A4:216:ALA:CA	1:A5:203:PHE:CE1	2.53	0.92
1:A4:216:ALA:CB	1:A5:203:PHE:HZ	1.82	0.92
2:D4:111:LEU:CD2	11:D4:201:CYC:HAB1	1.98	0.92
11:E4:203:CYC:O2A	2:F4:86:ARG:NH2	2.03	0.92
11:E4:203:CYC:H2A	2:F4:83:LYS:NZ	1.67	0.92
2:H4:111:LEU:HD23	11:M4:201:CYC:HAB2	1.52	0.92
3:M4:153:CYS:SG	3:M4:156:LEU:HB2	2.10	0.92
4:N4:49:MET:HE1	3:T4:84:ARG:NH2	1.85	0.92
2:Y4:149:GLU:HB3	2:Y4:153:TYR:CD2	2.04	0.92
2:H6:111:LEU:CD2	11:H6:201:CYC:HAB2	1.96	0.92
3:M6:84:ARG:NH1	11:M6:201:CYC:O2A	2.02	0.92
11:E8:203:CYC:O2A	2:F8:86:ARG:NH2	2.03	0.92
3:G8:138:ALA:O	3:G8:142:VAL:HG12	1.68	0.92
2:O8:33:GLN:HG3	2:W8:25:GLN:HE21	1.16	0.92
2:W8:36:PHE:HE1	2:W8:149:GLU:OE2	1.30	0.92
3:K2:149:THR:O	11:K2:202:CYC:HMD2	1.69	0.92
7:w3:51:ILE:HG21	1:A4:218:PHE:CE1	2.05	0.92
3:X4:51:ILE:CD1	3:X4:141:ILE:HD12	2.00	0.92
3:Z4:139:VAL:HA	3:Z4:142:VAL:CG1	2.00	0.92
11:E8:203:CYC:HAB1	2:F8:111:LEU:CD2	1.98	0.92
3:K8:103:SER:O	3:K8:107:ASP:HB2	1.69	0.92
3:T2:57:ARG:HA	3:T2:57:ARG:HE	1.34	0.91
7:u3:63:PRO:HG2	7:Q7:68:PRO:O	1.70	0.91
3:Z5:84:ARG:NH1	11:Z5:201:CYC:O2A	2.02	0.91
3:T8:103:SER:O	3:T8:107:ASP:HB2	1.69	0.91
2:W8:111:LEU:HD23	11:W8:201:CYC:HAB2	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:A1:301:CYC:O2A	3:C1:84:ARG:NH2	2.04	0.91
3:K1:84:ARG:NH1	11:K1:201:CYC:O2A	2.02	0.91
3:P1:84:ARG:NH1	11:P1:201:CYC:O2A	2.02	0.91
2:O2:84:CYS:O	11:T2:201:CYC:HBC1	1.67	0.91
3:X2:40:ALA:CB	11:X2:202:CYC:HBC3	1.99	0.91
7:u3:154:ASP:OD1	8:P7:46:ALA:CB	2.18	0.91
2:D4:8:ALA:HB1	2:D4:23:GLU:HG3	1.53	0.91
3:P4:37:ARG:HA	3:P4:156:LEU:HD21	1.53	0.91
3:T4:103:SER:O	3:T4:107:ASP:HB2	1.69	0.91
3:C6:57:ARG:CZ	11:C6:203:CYC:O1A	2.18	0.91
11:N6:302:CYC:O2A	3:T6:84:ARG:NH1	2.02	0.91
11:R6:202:CYC:HAB2	2:S6:111:LEU:CD2	1.96	0.91
2:B8:111:LEU:HD23	11:G8:201:CYC:HAB2	1.52	0.91
11:I8:203:CYC:HAB2	2:J8:111:LEU:HD23	1.52	0.91
2:S8:111:LEU:HD23	11:S8:201:CYC:HAB2	1.52	0.91
2:F1:122:PHE:HE2	11:F1:201:CYC:HAA1	1.36	0.91
3:M1:84:ARG:NH1	11:M1:201:CYC:O2A	2.02	0.91
2:O1:129:TYR:HE1	11:O1:201:CYC:CBC	1.84	0.91
3:R1:84:ARG:NH1	11:R1:201:CYC:O2A	2.02	0.91
3:E2:84:ARG:NH1	11:E2:201:CYC:O2A	2.02	0.91
11:P2:202:CYC:C2B	2:W2:145:ASP:OD1	2.17	0.91
3:R2:153:CYS:SG	3:R2:156:LEU:HD12	2.10	0.91
7:X3:154:ASP:CG	8:I7:46:ALA:CB	2.43	0.91
2:B4:86:ARG:NH2	11:G4:201:CYC:O2A	2.03	0.91
3:C4:153:CYS:SG	11:C4:201:CYC:C3C	2.58	0.91
3:M4:139:VAL:O	3:M4:143:MET:N	2.03	0.91
2:U4:19:LEU:HD21	3:V4:95:TYR:CD1	2.05	0.91
8:Y7:83:ARG:NH1	11:Y7:1001:CYC:O2A	2.03	0.91
11:I8:203:CYC:O2A	2:J8:86:ARG:NH2	2.03	0.91
2:L8:86:ARG:NH2	11:L8:201:CYC:O2A	2.03	0.91
3:R8:103:SER:O	3:R8:107:ASP:HB2	1.69	0.91
11:N1:301:CYC:O2A	3:T1:84:ARG:NH1	2.02	0.91
2:Q1:129:TYR:HE1	11:Q1:201:CYC:CBC	1.84	0.91
3:X1:84:ARG:NH1	11:X1:201:CYC:O2A	2.02	0.91
3:T2:151:GLY:N	11:T2:202:CYC:CMD	2.19	0.91
7:u3:3:ILE:HD12	7:O7:25:ARG:NH2	1.85	0.91
7:u3:117:LYS:HE3	7:Q7:113:ARG:HH12	1.31	0.91
2:H4:86:ARG:NH2	11:M4:201:CYC:O2A	2.03	0.91
3:G5:84:ARG:NH1	11:G5:201:CYC:O2A	2.02	0.91
3:I6:151:GLY:HA3	11:I6:202:CYC:HMD1	1.53	0.91
3:M6:151:GLY:HA3	11:M6:202:CYC:HMD2	0.92	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T6:151:GLY:CA	11:T6:201:CYC:HMD1	1.68	0.91
3:X6:40:ALA:CB	11:X6:202:CYC:HBC3	1.99	0.91
8:D7:83:ARG:NH1	11:D7:1001:CYC:O2A	2.03	0.91
2:H8:86:ARG:NH2	11:M8:201:CYC:O2A	2.03	0.91
2:O8:111:LEU:HD23	11:O8:201:CYC:HAB2	1.52	0.91
1:A1:203:PHE:CE1	1:A1:204:ARG:HG2	2.05	0.91
3:V2:57:ARG:NH1	2:W2:122:PHE:HZ	1.63	0.91
2:W2:111:LEU:CD2	11:W2:201:CYC:HAB2	1.96	0.91
7:o3:82:LEU:HB2	1:A5:218:PHE:CD2	2.05	0.91
1:A4:216:ALA:CB	1:A5:203:PHE:CZ	2.53	0.91
11:I4:203:CYC:O2A	2:J4:86:ARG:NH2	2.03	0.91
2:S4:33:GLN:CG	2:Y4:25:GLN:HE21	1.77	0.91
11:A5:302:CYC:O2A	3:E5:84:ARG:NH1	2.02	0.91
2:H5:129:TYR:HE1	11:H5:201:CYC:CBC	1.84	0.91
3:I5:84:ARG:NH1	11:I5:201:CYC:O2A	2.02	0.91
2:S5:129:TYR:HE1	11:S5:201:CYC:CBC	1.84	0.91
11:A6:301:CYC:O2A	3:G6:84:ARG:NH1	2.02	0.91
3:E6:39:ASP:OD2	11:E6:202:CYC:HHB	1.69	0.91
3:V6:148:VAL:HG13	11:V6:202:CYC:CHD	1.97	0.91
3:Z6:84:ARG:NH1	11:Z6:201:CYC:O2A	2.02	0.91
2:D8:111:LEU:HD23	11:D8:201:CYC:HAB2	1.52	0.91
2:F8:24:LEU:HD12	2:F8:28:TYR:HE1	1.36	0.91
3:P8:103:SER:O	3:P8:107:ASP:HB2	1.69	0.91
2:U8:150:THR:HG22	2:U8:154:ILE:HG13	1.49	0.91
11:A1:301:CYC:O2A	3:C1:84:ARG:NH1	2.02	0.91
2:J1:129:TYR:HE1	11:J1:201:CYC:CBC	1.84	0.91
11:V1:202:CYC:HAA1	2:W1:122:PHE:HE2	1.36	0.91
1:A4:194:VAL:CG2	1:A4:196:TRP:NE1	2.34	0.91
3:E4:153:CYS:HG	11:E4:202:CYC:H2C	1.35	0.91
11:E4:203:CYC:HAB2	2:F4:111:LEU:HD23	1.52	0.91
3:G4:139:VAL:O	3:G4:142:VAL:HG13	1.69	0.91
11:P4:203:CYC:HAB1	2:Q4:111:LEU:CD2	1.98	0.91
11:P4:203:CYC:HAB2	2:Q4:111:LEU:HD23	1.52	0.91
2:Q4:15:GLN:HE21	2:Q4:17:ARG:HE	1.00	0.91
2:Y4:111:LEU:HD23	11:Y4:201:CYC:HAB2	1.53	0.91
3:R5:84:ARG:NH2	11:R5:201:CYC:O2A	2.04	0.91
11:R5:202:CYC:HAB2	2:U5:149:GLU:OE2	1.71	0.91
8:T7:83:ARG:NH1	11:T7:1001:CYC:O2A	2.03	0.91
3:C8:36:LYS:CD	3:C8:152:ASP:O	2.19	0.91
2:S8:148:THR:CG2	11:Z8:202:CYC:HAC2	2.01	0.91
2:U8:86:ARG:NH2	11:U8:201:CYC:O2A	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G1:84:ARG:NH2	11:G1:201:CYC:O2A	2.04	0.91
3:I1:84:ARG:NH2	11:I1:201:CYC:O2A	2.04	0.91
2:J1:61:SER:CB	2:J8:61:SER:CA	2.49	0.91
2:L1:129:TYR:HE1	11:L1:201:CYC:CBC	1.84	0.91
3:X2:84:ARG:NH1	11:X2:201:CYC:O2A	2.02	0.91
2:L4:86:ARG:NH2	11:L4:201:CYC:O2A	2.03	0.91
2:S4:150:THR:HG22	2:S4:154:ILE:CD1	2.01	0.91
3:T4:143:MET:HE1	3:T4:153:CYS:HB3	1.48	0.91
11:T4:202:CYC:OB	2:Y4:32:ARG:CD	2.19	0.91
2:W4:111:LEU:HD23	11:W4:201:CYC:HAB2	1.52	0.91
2:B5:129:TYR:HE1	11:B5:201:CYC:CBC	1.84	0.91
11:V5:202:CYC:CAA	2:W5:122:PHE:CE2	2.54	0.91
11:X5:203:CYC:CBC	2:Y5:129:TYR:HE1	1.84	0.91
11:A6:301:CYC:CGA	3:G6:84:ARG:HH22	1.84	0.91
3:I6:84:ARG:HH22	11:I6:201:CYC:CGA	1.84	0.91
3:M6:110:LEU:HD22	3:M6:170:ALA:HB3	1.50	0.91
8:F7:83:ARG:NH1	11:F7:1001:CYC:O2A	2.03	0.91
3:I8:36:LYS:HB3	3:I8:156:LEU:HD11	1.53	0.91
11:P8:203:CYC:H2A	2:Q8:86:ARG:NH2	1.68	0.91
2:Q8:15:GLN:HE21	2:Q8:17:ARG:HE	1.00	0.91
2:F1:129:TYR:HE1	11:F1:201:CYC:CBC	1.84	0.91
11:R1:202:CYC:HAB2	2:U1:149:GLU:OE2	1.71	0.91
11:V1:202:CYC:CAA	2:W1:122:PHE:CE2	2.54	0.91
3:X2:84:ARG:HH22	11:X2:201:CYC:CGA	1.84	0.91
7:u3:76:GLU:HB3	1:A8:203:PHE:CG	2.06	0.91
7:u3:113:ARG:HH12	7:Q7:117:LYS:HG3	1.30	0.91
7:u3:151:ALA:HB1	7:O7:20:PRO:HB2	1.53	0.91
2:F4:25:GLN:CD	2:J4:33:GLN:HG3	1.96	0.91
3:G4:103:SER:O	3:G4:107:ASP:HB2	1.69	0.91
3:I4:36:LYS:HB3	3:I4:156:LEU:HD11	1.53	0.91
2:O4:111:LEU:HD23	11:O4:201:CYC:HAB2	1.53	0.91
2:S4:148:THR:CG2	11:Z4:202:CYC:HAC2	2.01	0.91
3:K5:84:ARG:HD2	4:N5:251:TYR:CD2	2.04	0.91
2:Q5:122:PHE:HE2	11:Q5:201:CYC:HAA1	1.36	0.91
2:U5:129:TYR:HE1	11:U5:201:CYC:CBC	1.84	0.91
11:X5:203:CYC:HAA1	2:Y5:122:PHE:HE2	1.36	0.91
3:I6:84:ARG:NH1	11:I6:201:CYC:O2A	2.02	0.91
2:J6:111:LEU:CD2	11:J6:201:CYC:HAB2	1.96	0.91
2:U6:111:LEU:CD2	11:U6:201:CYC:HAB2	1.96	0.91
8:M7:83:ARG:NH1	11:M7:1001:CYC:O2A	2.03	0.91
2:B8:86:ARG:NH2	11:G8:201:CYC:O2A	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G8:103:SER:O	3:G8:107:ASP:HB2	1.69	0.91
2:H8:111:LEU:HD23	11:M8:201:CYC:HAB2	1.52	0.91
3:K8:155:SER:O	3:K8:158:GLN:HB3	1.69	0.91
2:U8:19:LEU:HD21	3:V8:95:TYR:CD1	2.05	0.91
2:W8:86:ARG:NH2	11:W8:201:CYC:O2A	2.03	0.91
2:B1:129:TYR:HE1	11:B1:201:CYC:CBC	1.84	0.91
3:P1:84:ARG:NH2	11:P1:201:CYC:O2A	2.04	0.91
2:S1:122:PHE:HE2	11:S1:201:CYC:HAA1	1.36	0.91
3:K2:149:THR:OG1	11:K2:202:CYC:CAD	2.18	0.91
5:03:643:ASP:OD2	6:G7:24:ASN:OD1	1.87	0.91
11:C5:202:CYC:CBC	2:D5:129:TYR:HE1	1.84	0.91
3:X5:84:ARG:NH2	11:X5:201:CYC:O2A	2.04	0.91
3:T6:151:GLY:HA3	11:T6:201:CYC:HMD1	0.91	0.91
8:K7:83:ARG:NH1	11:K7:1001:CYC:O2A	2.03	0.91
2:S8:150:THR:HG22	2:S8:154:ILE:CD1	2.01	0.91
3:V8:37:ARG:HH12	3:V8:159:GLU:CD	1.79	0.91
2:Y8:86:ARG:NH2	11:Y8:201:CYC:O2A	2.03	0.91
2:H1:129:TYR:HE1	11:H1:201:CYC:CBC	1.84	0.91
2:S1:129:TYR:HE1	11:S1:201:CYC:CBC	1.84	0.91
2:B2:79:ARG:HH22	3:G2:57:ARG:HH21	1.18	0.91
3:K2:39:ASP:OD2	11:K2:202:CYC:ND	2.03	0.91
11:N2:302:CYC:CGA	3:T2:84:ARG:HH22	1.84	0.91
2:O2:111:LEU:CD2	11:T2:201:CYC:HAB2	1.96	0.91
3:V2:33:GLU:HB2	3:V2:36:LYS:CE	1.95	0.91
8:H3:46:ALA:HB2	7:C7:154:ASP:OD1	1.70	0.91
2:L4:111:LEU:HD23	11:L4:201:CYC:HAB2	1.52	0.91
2:W4:86:ARG:NH2	11:W4:201:CYC:O2A	2.03	0.91
2:B5:122:PHE:CE2	11:B5:201:CYC:CAA	2.54	0.91
2:L5:122:PHE:HE2	11:L5:201:CYC:HAA1	1.36	0.91
3:V5:84:ARG:NH1	11:V5:201:CYC:O2A	2.02	0.91
11:V5:202:CYC:CBC	2:W5:129:TYR:HE1	1.84	0.91
2:B8:33:GLN:HG3	2:H8:25:GLN:HE21	1.36	0.91
2:D8:8:ALA:HB1	2:D8:23:GLU:HG3	1.53	0.91
3:M8:139:VAL:O	3:M8:143:MET:N	2.03	0.91
3:V1:84:ARG:NH2	11:V1:201:CYC:O2A	2.04	0.90
3:Z1:84:ARG:NH2	11:Z1:201:CYC:O2A	2.04	0.90
3:P2:84:ARG:HH22	11:P2:201:CYC:CGA	1.84	0.90
5:03:837:LEU:HD11	6:U7:42:ARG:NH2	1.83	0.90
7:I3:113:ARG:CZ	7:C7:117:LYS:HE3	2.01	0.90
7:q3:82:LEU:HD13	1:A8:221:MET:CE	2.00	0.90
3:M4:84:ARG:NH1	11:M4:202:CYC:O2A	2.05	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S4:150:THR:HA	2:S4:153:TYR:HB2	1.52	0.90
2:B5:122:PHE:HE2	11:B5:201:CYC:HAA1	1.36	0.90
2:F5:122:PHE:CE2	11:F5:201:CYC:CAA	2.54	0.90
2:L5:122:PHE:CE2	11:L5:201:CYC:CAA	2.54	0.90
2:L5:129:TYR:HE1	11:L5:201:CYC:CBC	1.84	0.90
3:M5:84:ARG:NH2	11:M5:201:CYC:O2A	2.04	0.90
2:O5:122:PHE:HE2	11:O5:201:CYC:HAA1	1.36	0.90
2:Q5:129:TYR:HE1	11:Q5:201:CYC:CBC	1.84	0.90
3:C6:33:GLU:HA	3:C6:36:LYS:CG	1.99	0.90
8:a7:83:ARG:NH1	11:a7:1001:CYC:O2A	2.03	0.90
2:L8:149:GLU:O	2:L8:153:TYR:HD2	1.52	0.90
2:Y8:111:LEU:HD23	11:Y8:201:CYC:HAB2	1.52	0.90
3:M1:84:ARG:NH2	11:M1:201:CYC:O2A	2.04	0.90
11:N1:301:CYC:O2A	3:T1:84:ARG:NH2	2.04	0.90
7:X3:20:PRO:HB3	7:H7:151:ALA:CB	2.00	0.90
2:S4:148:THR:HG23	11:Z4:202:CYC:HAC2	1.53	0.90
2:U4:150:THR:CG2	2:U4:154:ILE:HG13	1.98	0.90
11:N5:301:CYC:O2A	3:T5:84:ARG:NH2	2.04	0.90
8:R7:83:ARG:NH1	11:R7:1001:CYC:O2A	2.03	0.90
8:W7:83:ARG:NH1	11:W7:1001:CYC:O2A	2.03	0.90
3:C8:153:CYS:SG	11:C8:201:CYC:C3C	2.58	0.90
3:M8:153:CYS:SG	3:M8:156:LEU:HB2	2.10	0.90
2:Q8:18:PHE:CD2	3:R8:45:THR:OG1	2.02	0.90
2:S8:150:THR:HA	2:S8:153:TYR:HB2	1.52	0.90
1:A2:205:THR:HG21	7:N3:47:ARG:NE	1.86	0.90
3:I2:84:ARG:NH1	11:I2:201:CYC:O2A	2.02	0.90
3:P2:151:GLY:N	11:P2:202:CYC:HMD2	1.86	0.90
8:c3:84:ASP:OD2	11:c3:1001:CYC:ND	2.05	0.90
7:d3:73:TYR:HD1	1:A6:194:VAL:HG21	1.05	0.90
2:J4:24:LEU:HD11	3:K4:39:ASP:HA	1.52	0.90
11:L4:202:CYC:HBC3	3:M4:142:VAL:HG23	1.54	0.90
2:J5:122:PHE:HE2	11:J5:201:CYC:HAA1	1.36	0.90
2:O5:129:TYR:HE1	11:O5:201:CYC:CBC	1.84	0.90
11:P8:203:CYC:HAB2	2:Q8:111:LEU:HD23	1.52	0.90
3:K1:84:ARG:NH2	11:K1:201:CYC:O2A	2.04	0.90
3:R1:84:ARG:NH2	11:R1:201:CYC:O2A	2.04	0.90
2:U1:129:TYR:HE1	11:U1:201:CYC:CBC	1.84	0.90
7:Z3:117:LYS:HZ2	7:H7:113:ARG:NH1	1.57	0.90
7:d3:74:GLY:N	1:A6:194:VAL:CG2	2.34	0.90
2:S5:28:TYR:OH	11:T5:201:CYC:NB	2.05	0.90
3:K6:57:ARG:HH12	11:L6:201:CYC:CGA	1.85	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:N6:302:CYC:CGA	3:T6:84:ARG:HH22	1.84	0.90
11:N8:301:CYC:O2A	3:R8:84:ARG:NH1	2.05	0.90
3:C2:84:ARG:HH22	11:C2:201:CYC:CGA	1.84	0.90
3:K2:84:ARG:HH22	11:K2:201:CYC:CGA	1.84	0.90
3:T2:151:GLY:HA3	11:T2:202:CYC:HMD1	0.91	0.90
7:I3:151:ALA:HB1	7:A7:20:PRO:HB3	1.51	0.90
7:d3:52:LYS:HZ1	1:A6:201:ARG:NE	1.67	0.90
8:t3:84:ASP:OD2	11:t3:1001:CYC:ND	2.05	0.90
3:I4:84:ARG:NH1	11:I4:201:CYC:O2A	2.05	0.90
2:F5:129:TYR:HE1	11:F5:201:CYC:CBC	1.84	0.90
2:J5:129:TYR:HE1	11:J5:201:CYC:CBC	1.84	0.90
3:V5:84:ARG:NH2	11:V5:201:CYC:O2A	2.04	0.90
3:I6:57:ARG:NH1	11:J6:201:CYC:O1A	2.05	0.90
3:K6:84:ARG:HH22	11:K6:201:CYC:CGA	1.84	0.90
11:L8:202:CYC:HBC3	3:M8:142:VAL:HG23	1.54	0.90
3:P8:37:ARG:HA	3:P8:156:LEU:HD21	1.53	0.90
11:C1:202:CYC:CBC	2:D1:129:TYR:HE1	1.84	0.90
11:X1:203:CYC:CBC	2:Y1:129:TYR:HE1	1.84	0.90
8:U3:84:ASP:OD2	11:U3:1001:CYC:ND	2.05	0.90
8:n3:84:ASP:OD2	11:n3:1001:CYC:ND	2.05	0.90
8:r3:84:ASP:OD2	11:r3:1001:CYC:ND	2.05	0.90
3:C4:36:LYS:CD	3:C4:152:ASP:O	2.19	0.90
11:C5:202:CYC:HAA1	2:D5:122:PHE:HE2	1.36	0.90
2:F5:122:PHE:HE2	11:F5:201:CYC:HAA1	1.36	0.90
3:K6:149:THR:OG1	11:K6:202:CYC:CAD	2.18	0.90
2:W6:111:LEU:CD2	11:W6:201:CYC:HAB2	1.96	0.90
2:B1:122:PHE:HE2	11:B1:201:CYC:HAA1	1.36	0.90
3:M2:110:LEU:HD22	3:M2:170:ALA:HB3	1.50	0.90
3:M2:151:GLY:HA3	11:M2:202:CYC:HMD2	0.92	0.90
2:D4:25:GLN:HE21	2:L4:33:GLN:HG3	1.07	0.90
2:L4:149:GLU:O	2:L4:153:TYR:HD2	1.55	0.90
3:Z4:84:ARG:NH1	11:Z4:201:CYC:O2A	2.05	0.90
11:A5:301:CYC:O2A	3:C5:84:ARG:NH2	2.04	0.90
3:P5:84:ARG:NH2	11:P5:201:CYC:O2A	2.04	0.90
11:C6:203:CYC:HAB2	2:D6:111:LEU:CD2	1.96	0.90
3:P6:84:ARG:HH22	11:P6:201:CYC:CGA	1.84	0.90
4:N8:49:MET:HE1	3:T8:84:ARG:NH2	1.85	0.90
11:N8:301:CYC:HAC1	3:R8:82:CYS:HG	0.77	0.90
3:T8:142:VAL:O	11:T8:202:CYC:CMC	2.18	0.90
3:X1:84:ARG:NH2	11:X1:201:CYC:O2A	2.04	0.90
11:X1:203:CYC:CAC	2:Y1:84:CYS:CB	2.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:13:903:CYC:ND	8:a3:84:ASP:OD2	2.05	0.90
1:A4:203:PHE:CE1	1:A5:216:ALA:CA	2.42	0.90
2:B4:111:LEU:HD23	11:G4:201:CYC:HAB2	1.52	0.90
11:I4:203:CYC:HAB2	2:J4:111:LEU:HD23	1.52	0.90
3:R4:39:ASP:OD2	11:R4:201:CYC:CMB	2.19	0.90
3:T4:142:VAL:O	11:T4:202:CYC:CMC	2.18	0.90
3:K6:39:ASP:OD2	11:K6:202:CYC:ND	2.03	0.90
3:R8:39:ASP:OD2	11:R8:201:CYC:CMB	2.19	0.90
3:V8:153:CYS:SG	11:V8:202:CYC:HBC1	2.12	0.90
2:H1:84:CYS:CB	11:H1:201:CYC:CAC	2.50	0.90
2:Q1:84:CYS:CB	11:Q1:201:CYC:CAC	2.50	0.90
3:I2:110:LEU:HD22	3:I2:170:ALA:HB3	1.54	0.90
11:N2:301:CYC:CGA	3:R2:84:ARG:HH22	1.84	0.90
8:O3:84:ASP:OD2	11:O3:1001:CYC:ND	2.05	0.90
2:B4:27:LEU:HD11	3:C4:38:SER:HB3	1.52	0.90
11:I4:203:CYC:CAB	2:J4:111:LEU:CD2	2.50	0.90
3:K5:84:ARG:NH2	11:K5:201:CYC:O2A	2.04	0.90
11:N6:301:CYC:CGA	3:R6:84:ARG:HH22	1.84	0.90
3:Z6:84:ARG:HH22	11:Z6:201:CYC:CGA	1.84	0.90
8:P7:83:ARG:NH1	11:P7:1001:CYC:O2A	2.03	0.90
3:I8:139:VAL:HA	3:I8:142:VAL:HG11	1.53	0.90
3:T8:139:VAL:O	3:T8:142:VAL:HG13	1.71	0.90
5:03:443:TYR:CZ	5:03:611:ILE:CG2	2.55	0.90
5:03:565:THR:HG22	6:G7:29:LYS:HD3	1.52	0.90
5:13:510:ARG:NH1	6:N7:21:GLU:OE2	2.05	0.90
7:K3:117:LYS:HZ3	7:A7:113:ARG:HH11	1.09	0.90
8:e3:17:LYS:HD3	1:A6:207:ASP:OD2	1.67	0.90
3:X4:84:ARG:NH1	11:X4:201:CYC:O2A	2.05	0.90
2:F5:84:CYS:CB	11:F5:201:CYC:CAC	2.50	0.90
2:S5:24:LEU:HD13	11:T5:201:CYC:HBB2	1.51	0.90
8:B7:83:ARG:NH1	11:B7:1001:CYC:O2A	2.03	0.90
11:P8:203:CYC:CAB	2:Q8:111:LEU:CD2	2.50	0.90
3:X8:84:ARG:NH1	11:X8:201:CYC:O2A	2.04	0.90
2:Y8:111:LEU:CD2	11:Y8:201:CYC:CAB	2.50	0.90
2:L1:122:PHE:HE2	11:L1:201:CYC:HAA1	1.36	0.89
3:I2:57:ARG:NH1	11:I2:203:CYC:O1A	2.04	0.89
3:V2:151:GLY:CA	11:V2:202:CYC:CMD	2.50	0.89
8:S3:84:ASP:OD2	11:S3:1001:CYC:ND	2.05	0.89
3:V4:153:CYS:SG	11:V4:202:CYC:HBC1	2.12	0.89
2:W4:111:LEU:CD2	11:W4:201:CYC:CAB	2.50	0.89
3:E6:84:ARG:HH22	11:E6:201:CYC:CGA	1.84	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I6:110:LEU:HD22	3:I6:170:ALA:HB3	1.53	0.89
2:H8:111:LEU:CD2	11:M8:201:CYC:CAB	2.50	0.89
3:K8:84:ARG:NH1	11:K8:201:CYC:O2A	2.05	0.89
3:Z8:84:ARG:NH1	11:Z8:201:CYC:O2A	2.05	0.89
11:A1:302:CYC:O2A	3:E1:84:ARG:NH2	2.04	0.89
3:I2:84:ARG:HH22	11:I2:201:CYC:CGA	1.84	0.89
3:M2:84:ARG:HH22	11:M2:201:CYC:CGA	1.84	0.89
5:03:843:ASP:OD2	6:U7:24:ASN:OD1	1.89	0.89
7:I3:6:LYS:HZ3	7:A7:10:ASN:HD21	1.18	0.89
8:W3:84:ASP:OD2	11:W3:1001:CYC:ND	2.04	0.89
7:w3:51:ILE:HG22	1:A4:221:MET:HE1	1.53	0.89
2:D4:140:HIS:ND1	2:D4:142:LEU:HG	1.86	0.89
3:Z4:138:ALA:O	3:Z4:142:VAL:CG1	2.19	0.89
11:V5:202:CYC:CAC	2:W5:84:CYS:CB	2.50	0.89
3:P6:33:GLU:C	3:P6:36:LYS:HG3	1.96	0.89
2:B8:27:LEU:HD11	3:C8:38:SER:HB3	1.52	0.89
2:D8:4:PRO:HD3	2:L8:22:THR:HG22	1.54	0.89
3:V8:84:ARG:NH1	11:V8:201:CYC:O2A	2.05	0.89
11:A2:301:CYC:CGA	3:G2:84:ARG:HH22	1.84	0.89
3:E2:84:ARG:HH22	11:E2:201:CYC:CGA	1.84	0.89
7:u3:68:PRO:O	7:Q7:63:PRO:CG	2.19	0.89
8:z3:62:TYR:CG	1:A8:203:PHE:O	2.25	0.89
2:D4:36:PHE:CE2	2:D4:145:ASP:HB3	2.07	0.89
2:D4:111:LEU:HD23	11:D4:201:CYC:HAB2	1.52	0.89
2:U4:111:LEU:HD23	11:U4:201:CYC:HAB2	1.52	0.89
2:O5:122:PHE:CE2	11:O5:201:CYC:CAA	2.54	0.89
3:X6:146:ALA:O	3:X6:148:VAL:CG2	2.20	0.89
11:X1:203:CYC:CAA	2:Y1:122:PHE:CE2	2.54	0.89
5:13:523:VAL:C	7:J7:106:GLU:CD	2.39	0.89
5:13:837:LEU:HD11	6:b7:42:ARG:CD	2.00	0.89
7:I3:154:ASP:CG	8:B7:46:ALA:CB	2.46	0.89
3:E4:84:ARG:NH1	11:E4:201:CYC:O2A	2.05	0.89
11:F4:201:CYC:HAB2	2:J4:149:GLU:OE1	1.72	0.89
2:S4:111:LEU:HD23	11:S4:201:CYC:HAB2	1.52	0.89
2:H5:122:PHE:HE2	11:H5:201:CYC:HAA1	1.36	0.89
3:V6:57:ARG:NH1	2:W6:122:PHE:HZ	1.71	0.89
3:V6:151:GLY:CA	11:V6:202:CYC:CMD	2.50	0.89
11:A8:301:CYC:O2A	3:C8:84:ARG:NH1	2.05	0.89
2:D8:111:LEU:CD2	11:D8:201:CYC:CAB	2.50	0.89
11:E8:203:CYC:CAB	2:F8:111:LEU:CD2	2.50	0.89
2:O8:111:LEU:CD2	11:O8:201:CYC:CAB	2.50	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T8:202:CYC:OB	2:Y8:32:ARG:CD	2.19	0.89
3:E2:57:ARG:NH2	11:E2:203:CYC:CGD	2.34	0.89
3:X2:146:ALA:O	3:X2:148:VAL:CG2	2.20	0.89
7:w3:25:ARG:NH1	7:S7:24:ASP:CB	2.34	0.89
11:A5:302:CYC:O2A	3:E5:84:ARG:NH2	2.04	0.89
2:B5:84:CYS:CB	11:B5:201:CYC:CAC	2.50	0.89
2:H5:84:CYS:HG	11:H5:201:CYC:HAC2	1.37	0.89
3:I5:84:ARG:NH2	11:I5:201:CYC:O2A	2.04	0.89
2:J5:122:PHE:CE2	11:J5:201:CYC:CAA	2.54	0.89
2:L5:84:CYS:HG	11:L5:201:CYC:HAC2	1.37	0.89
3:Z5:84:ARG:NH2	11:Z5:201:CYC:O2A	2.04	0.89
2:D8:33:GLN:HG2	2:D8:149:GLU:OE2	1.73	0.89
3:K1:84:ARG:HH11	4:N1:251:TYR:HB2	1.34	0.89
2:S1:84:CYS:CB	11:S1:201:CYC:CAC	2.50	0.89
2:U1:84:CYS:CB	11:U1:201:CYC:CAC	2.50	0.89
3:Z2:84:ARG:HH22	11:Z2:202:CYC:CGA	1.84	0.89
11:13:904:CYC:ND	8:h3:84:ASP:OD2	2.05	0.89
8:M3:84:ASP:OD2	11:M3:201:CYC:ND	2.05	0.89
8:c3:67:ARG:CG	1:A6:213:GLY:CA	2.51	0.89
8:p3:84:ASP:OD2	11:p3:1001:CYC:ND	2.05	0.89
8:z3:84:ASP:OD2	11:z3:1001:CYC:ND	2.05	0.89
1:A4:194:VAL:HG23	1:A4:196:TRP:CD1	2.07	0.89
2:S4:149:GLU:CG	2:S4:153:TYR:CE2	2.49	0.89
3:G5:84:ARG:NH2	11:G5:201:CYC:O2A	2.04	0.89
3:X6:84:ARG:HH22	11:X6:201:CYC:CGA	1.84	0.89
3:C8:139:VAL:CA	3:C8:142:VAL:CG1	2.50	0.89
2:L8:111:LEU:CD2	11:L8:201:CYC:CAB	2.50	0.89
2:S8:111:LEU:CD2	11:S8:201:CYC:CAB	2.50	0.89
2:S8:148:THR:HG23	11:Z8:202:CYC:HAC2	1.53	0.89
2:O1:84:CYS:CB	11:O1:201:CYC:CAC	2.50	0.89
2:Q1:122:PHE:HE2	11:Q1:201:CYC:HAA1	1.36	0.89
2:U1:122:PHE:HE2	11:U1:201:CYC:HAA1	1.36	0.89
11:V1:202:CYC:CAC	2:W1:84:CYS:CB	2.50	0.89
11:V2:202:CYC:HMD1	11:V2:202:CYC:HC	1.37	0.89
8:j3:84:ASP:OD2	11:j3:1001:CYC:ND	2.05	0.89
7:o3:59:PHE:CE2	7:o3:78:THR:CG2	2.55	0.89
2:D4:4:PRO:HD3	2:L4:22:THR:HG22	1.55	0.89
3:E4:138:ALA:O	3:E4:142:VAL:HG23	1.73	0.89
2:O4:111:LEU:CD2	11:O4:201:CYC:CAB	2.50	0.89
2:Y4:18:PHE:HD2	3:Z4:45:THR:OG1	1.49	0.89
2:S5:84:CYS:CB	11:S5:201:CYC:CAC	2.50	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M6:84:ARG:HH22	11:M6:201:CYC:CGA	1.84	0.89
2:D8:36:PHE:CE2	2:D8:145:ASP:HB3	2.07	0.89
3:E8:84:ARG:NH1	11:E8:201:CYC:O2A	2.05	0.89
2:F8:103:GLY:HA3	2:J8:22:THR:CG2	2.01	0.89
11:I8:203:CYC:CAB	2:J8:111:LEU:CD2	2.50	0.89
2:Y8:18:PHE:HD2	3:Z8:45:THR:HG1	1.10	0.89
11:C1:202:CYC:CAC	2:D1:84:CYS:CB	2.50	0.89
2:F1:84:CYS:CB	11:F1:201:CYC:CAC	2.50	0.89
11:V1:202:CYC:CBC	2:W1:129:TYR:HE1	1.84	0.89
7:I3:64:ASP:OD2	7:C7:69:GLY:C	2.16	0.89
8:e3:84:ASP:OD2	11:e3:1001:CYC:ND	2.05	0.89
8:v3:84:ASP:OD2	11:v3:1001:CYC:ND	2.05	0.89
8:x3:84:ASP:OD2	11:x3:1001:CYC:ND	2.04	0.89
2:B4:19:LEU:CD2	3:C4:95:TYR:HE1	1.81	0.89
2:B4:149:GLU:O	2:B4:153:TYR:HD2	1.55	0.89
2:F4:103:GLY:HA3	2:J4:22:THR:CG2	2.01	0.89
2:L4:149:GLU:HG2	2:L4:153:TYR:HE2	1.06	0.89
2:S4:4:PRO:HD3	2:Y4:22:THR:HG22	1.55	0.89
2:S4:111:LEU:CD2	11:S4:201:CYC:CAB	2.50	0.89
1:A5:211:GLN:HE21	1:A5:211:GLN:HA	1.34	0.89
3:I5:151:GLY:HA3	11:I5:202:CYC:HMD2	1.55	0.89
2:O5:149:GLU:OE2	11:X5:202:CYC:HAB2	1.70	0.89
2:S5:122:PHE:HE2	11:S5:201:CYC:HAA1	1.36	0.89
3:C6:84:ARG:HH22	11:C6:201:CYC:CGA	1.84	0.89
2:D8:140:HIS:ND1	2:D8:142:LEU:HG	1.86	0.89
3:I8:84:ARG:NH1	11:I8:201:CYC:O2A	2.05	0.89
3:M8:84:ARG:NH1	11:M8:202:CYC:O2A	2.05	0.89
2:U8:19:LEU:HD21	3:V8:95:TYR:CE1	2.07	0.89
3:K1:151:GLY:HA3	11:K1:202:CYC:HMD2	1.55	0.89
3:P1:57:ARG:NH1	11:Q1:201:CYC:O2D	2.06	0.89
11:X2:203:CYC:HAB2	2:Y2:111:LEU:CD2	1.96	0.89
7:K3:81:CYS:SG	11:K3:1001:CYC:HBC2	2.13	0.89
7:d3:81:CYS:SG	11:d3:1001:CYC:HBC2	2.13	0.89
3:K4:84:ARG:NH1	11:K4:201:CYC:O2A	2.05	0.89
11:N4:301:CYC:O2A	3:R4:84:ARG:NH1	2.05	0.89
11:C5:202:CYC:CAC	2:D5:84:CYS:CB	2.50	0.89
2:L5:84:CYS:CB	11:L5:201:CYC:CAC	2.50	0.89
2:D8:36:PHE:CD2	2:D8:145:ASP:HB3	2.08	0.89
2:Y8:99:LEU:HD13	2:Y8:149:GLU:OE2	1.73	0.89
3:Z8:138:ALA:O	3:Z8:142:VAL:CG1	2.19	0.89
3:M1:151:GLY:HA3	11:M1:202:CYC:HMD2	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X1:57:ARG:NH1	11:X1:203:CYC:CGD	2.36	0.89
1:A2:207:ASP:CG	8:O3:17:LYS:HG2	1.98	0.89
3:I2:151:GLY:HA3	11:I2:202:CYC:HMD1	1.53	0.89
3:K2:57:ARG:HA	3:K2:57:ARG:HE	1.37	0.89
7:Z3:81:CYS:SG	11:Z3:1001:CYC:HBC2	2.13	0.89
8:c3:67:ARG:CD	1:A6:213:GLY:HA3	2.02	0.89
2:B4:33:GLN:HG3	2:H4:25:GLN:HE21	1.36	0.89
2:D4:36:PHE:CD2	2:D4:145:ASP:HB3	2.08	0.89
11:E4:203:CYC:CAB	2:F4:111:LEU:CD2	2.50	0.89
3:K4:153:CYS:SG	11:K4:202:CYC:HBC2	2.10	0.89
3:T4:82:CYS:HG	11:T4:201:CYC:HAC1	1.37	0.89
3:T4:137:ALA:O	3:T4:141:ILE:HG13	1.73	0.89
3:T4:139:VAL:O	3:T4:142:VAL:HG13	1.71	0.89
2:Y4:111:LEU:CD2	11:Y4:201:CYC:CAB	2.51	0.89
3:G8:84:ARG:NH1	11:G8:202:CYC:O2A	2.05	0.89
2:J8:24:LEU:HD11	3:K8:39:ASP:HA	1.52	0.89
2:J8:149:GLU:O	2:J8:153:TYR:HD2	1.53	0.89
2:L1:84:CYS:CB	11:L1:201:CYC:CAC	2.50	0.88
3:X1:151:GLY:HA3	11:X1:202:CYC:HMD2	1.55	0.88
7:T3:81:CYS:SG	11:T3:1001:CYC:HBC2	2.13	0.88
11:P4:203:CYC:CAB	2:Q4:111:LEU:CD2	2.50	0.88
2:U5:84:CYS:CB	11:U5:201:CYC:CAC	2.50	0.88
2:U5:122:PHE:HE2	11:U5:201:CYC:HAA1	1.36	0.88
2:U5:122:PHE:CE2	11:U5:201:CYC:CAA	2.54	0.88
11:V5:202:CYC:HAA1	2:W5:122:PHE:HE2	1.36	0.88
3:X5:57:ARG:NH1	11:X5:203:CYC:CGD	2.36	0.88
2:B8:149:GLU:O	2:B8:153:TYR:HD2	1.56	0.88
2:J1:122:PHE:HE2	11:J1:201:CYC:HAA1	1.36	0.88
2:O1:122:PHE:HE2	11:O1:201:CYC:HAA1	1.36	0.88
7:y3:81:CYS:SG	11:y3:1001:CYC:HBC2	2.13	0.88
2:F4:24:LEU:CD1	2:F4:28:TYR:CE1	2.55	0.88
2:F4:28:TYR:HB3	2:J4:32:ARG:HD3	1.55	0.88
3:E8:140:ALA:O	3:E8:144:ASP:CG	2.17	0.88
11:F8:201:CYC:HAB2	2:J8:149:GLU:OE1	1.72	0.88
3:T8:137:ALA:O	3:T8:141:ILE:HG13	1.73	0.88
2:U8:19:LEU:CD2	3:V8:95:TYR:CE1	2.57	0.88
2:B1:122:PHE:CE2	11:B1:201:CYC:CAA	2.54	0.88
1:A2:193:GLN:HE22	3:G2:72:ASN:H	1.16	0.88
11:03:902:CYC:ND	8:L3:84:ASP:OD2	2.05	0.88
7:k3:81:CYS:SG	11:k3:1001:CYC:HBC2	2.14	0.88
7:u3:113:ARG:NH1	7:Q7:117:LYS:CG	2.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:w3:81:CYS:SG	11:w3:1001:CYC:HBC2	2.13	0.88
2:U4:19:LEU:HD21	3:V4:95:TYR:CE1	2.07	0.88
3:V4:84:ARG:NH1	11:V4:201:CYC:O2A	2.05	0.88
3:V4:153:CYS:HB2	11:V4:202:CYC:HAC2	1.54	0.88
2:H5:84:CYS:CB	11:H5:201:CYC:CAC	2.50	0.88
2:J5:84:CYS:CB	11:J5:201:CYC:CAC	2.50	0.88
2:B8:111:LEU:CD2	11:G8:201:CYC:CAB	2.50	0.88
11:N8:301:CYC:CBC	3:R8:127:VAL:HG22	2.04	0.88
2:U8:111:LEU:CD2	11:U8:201:CYC:CAB	2.50	0.88
2:O1:122:PHE:CE2	11:O1:201:CYC:CAA	2.54	0.88
2:S1:28:TYR:OH	11:T1:201:CYC:NB	2.05	0.88
3:V2:33:GLU:CA	3:V2:36:LYS:CE	2.51	0.88
7:b3:81:CYS:SG	11:b3:1001:CYC:HBC2	2.13	0.88
7:q3:81:CYS:SG	11:q3:1001:CYC:HBC2	2.13	0.88
2:B4:111:LEU:CD2	11:G4:201:CYC:CAB	2.50	0.88
2:D4:4:PRO:HD3	2:L4:22:THR:CG2	2.03	0.88
3:E4:140:ALA:O	3:E4:144:ASP:CG	2.17	0.88
2:H4:111:LEU:CD2	11:M4:201:CYC:CAB	2.50	0.88
3:K4:127:VAL:HG22	11:K4:201:CYC:CBC	2.04	0.88
2:L4:111:LEU:CD2	11:L4:201:CYC:CAB	2.50	0.88
3:P4:139:VAL:O	3:P4:142:VAL:CG1	2.21	0.88
2:Q5:84:CYS:CB	11:Q5:201:CYC:CAC	2.50	0.88
3:X6:57:ARG:HH11	2:Y6:79:ARG:NH2	1.71	0.88
2:L8:111:LEU:HD23	11:L8:201:CYC:HAB2	1.52	0.88
2:L8:149:GLU:O	2:L8:153:TYR:CD2	2.27	0.88
3:M8:127:VAL:HG22	11:M8:202:CYC:CBC	2.04	0.88
3:P8:139:VAL:O	3:P8:142:VAL:CG1	2.21	0.88
3:V8:82:CYS:HG	11:V8:201:CYC:HAC1	0.77	0.88
3:V8:127:VAL:HG22	11:V8:201:CYC:CBC	2.04	0.88
11:D1:201:CYC:HMD2	3:E1:151:GLY:HA3	1.55	0.88
2:J1:84:CYS:CB	11:J1:201:CYC:CAC	2.50	0.88
7:G3:81:CYS:SG	11:G3:1001:CYC:HBC2	2.14	0.88
7:Z3:117:LYS:HZ3	7:H7:113:ARG:NH1	1.60	0.88
7:d3:52:LYS:HE2	1:A6:201:ARG:HA	1.54	0.88
7:i3:81:CYS:SG	11:i3:1001:CYC:HBC2	2.13	0.88
8:t3:67:ARG:NE	1:A5:214:ASP:OD1	2.06	0.88
2:D4:111:LEU:CD2	11:D4:201:CYC:CAB	2.50	0.88
3:E4:142:VAL:HG11	3:E4:156:LEU:HD21	1.53	0.88
3:G4:84:ARG:NH1	11:G4:202:CYC:O2A	2.05	0.88
3:I4:51:ILE:CD1	3:I4:141:ILE:CD1	2.51	0.88
3:T4:143:MET:CE	3:T4:153:CYS:CB	2.51	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:C5:202:CYC:CAA	2:D5:122:PHE:CE2	2.54	0.88
3:V6:33:GLU:HB2	3:V6:36:LYS:CE	1.95	0.88
2:U8:111:LEU:HD23	11:U8:201:CYC:HAB2	1.53	0.88
2:W8:111:LEU:CD2	11:W8:201:CYC:CAB	2.50	0.88
2:J1:54:GLY:CA	2:J8:68:SER:CB	2.51	0.88
2:J1:139:ASN:OD1	2:B8:64:PRO:HG3	1.73	0.88
11:X1:203:CYC:HAA1	2:Y1:122:PHE:HE2	1.36	0.88
5:13:510:ARG:NH1	6:N7:21:GLU:OE1	2.06	0.88
7:w3:73:TYR:CE2	1:A5:196:TRP:HB3	2.09	0.88
3:T4:153:CYS:SG	11:T4:202:CYC:CBC	2.55	0.88
3:Z4:127:VAL:HG22	11:Z4:201:CYC:CBC	2.04	0.88
11:X5:203:CYC:CAC	2:Y5:84:CYS:CB	2.50	0.88
2:B1:84:CYS:CB	11:B1:201:CYC:CAC	2.50	0.88
7:P3:81:CYS:SG	11:P3:1001:CYC:HBC2	2.13	0.88
7:d3:52:LYS:HZ3	1:A6:201:ARG:NE	1.71	0.88
2:B4:64:PRO:CB	2:J5:138:ALA:HB3	2.04	0.88
3:I4:127:VAL:HG22	11:I4:201:CYC:CBC	2.04	0.88
3:P4:127:VAL:HG22	11:P4:201:CYC:CBC	2.04	0.88
2:Q4:36:PHE:HZ	2:Q4:149:GLU:OE2	1.57	0.88
11:D5:201:CYC:HMD2	3:E5:151:GLY:HA3	1.55	0.88
3:T6:37:ARG:HA	3:T6:156:LEU:HD11	1.55	0.88
3:T6:151:GLY:N	11:T6:201:CYC:CMD	2.19	0.88
3:G8:127:VAL:HG22	11:G8:202:CYC:CBC	2.04	0.88
3:I8:127:VAL:HG22	11:I8:201:CYC:CBC	2.04	0.88
2:S8:4:PRO:HD3	2:Y8:22:THR:HG22	1.55	0.88
11:U1:202:CYC:HMD2	3:V1:151:GLY:HA3	1.55	0.88
5:03:643:ASP:OD2	6:G7:24:ASN:CG	2.16	0.88
8:H3:84:ASP:OD2	11:H3:1001:CYC:ND	2.05	0.88
7:s3:81:CYS:SG	11:s3:1001:CYC:HBC2	2.13	0.88
7:w3:79:ALA:CB	1:A4:219:LEU:HA	2.03	0.88
3:M4:127:VAL:HG22	11:M4:202:CYC:CBC	2.04	0.88
3:X4:137:ALA:O	3:X4:141:ILE:HG13	1.74	0.88
3:K5:84:ARG:HH11	4:N5:251:TYR:HB2	1.34	0.88
2:O5:84:CYS:CB	11:O5:201:CYC:CAC	2.50	0.88
11:U5:202:CYC:HMD2	3:V5:151:GLY:HA3	1.55	0.88
3:E8:127:VAL:HG22	11:E8:201:CYC:CBC	2.04	0.88
3:V2:57:ARG:NH1	2:W2:122:PHE:CE1	2.41	0.88
5:03:837:LEU:CD1	6:U7:42:ARG:CD	2.52	0.88
7:I3:3:ILE:HD11	7:A7:25:ARG:HH22	1.38	0.88
7:R3:81:CYS:SG	11:R3:1001:CYC:HBC2	2.13	0.88
8:l3:84:ASP:OD2	11:l3:1001:CYC:ND	2.05	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:A4:301:CYC:O2A	3:C4:84:ARG:NH1	2.05	0.88
2:U4:111:LEU:CD2	11:U4:201:CYC:CAB	2.50	0.88
3:X6:110:LEU:HD22	3:X6:170:ALA:CB	2.04	0.88
11:F8:201:CYC:HBC3	3:G8:142:VAL:CG2	2.04	0.88
3:K8:151:GLY:CA	11:K8:202:CYC:CMD	2.52	0.88
2:U8:149:GLU:C	2:U8:153:TYR:HD2	1.81	0.88
2:U8:150:THR:CG2	2:U8:154:ILE:HG13	1.98	0.88
5:03:288:ARG:HD2	8:M3:83:ARG:NH1	1.89	0.88
7:f3:81:CYS:SG	11:f3:1001:CYC:HBC2	2.14	0.88
11:A4:301:CYC:CBC	3:C4:127:VAL:HG22	2.04	0.88
2:F4:103:GLY:CA	2:J4:22:THR:HG23	2.02	0.88
3:T5:151:GLY:HA3	11:T5:201:CYC:HMD2	1.55	0.88
11:F8:201:CYC:HBC3	3:G8:142:VAL:HG23	1.54	0.88
3:G8:37:ARG:HA	3:G8:156:LEU:HD21	1.55	0.88
2:L8:149:GLU:HG3	2:L8:153:TYR:HE2	1.36	0.88
3:R8:57:ARG:NH1	11:S8:201:CYC:O2D	2.07	0.88
7:I3:81:CYS:SG	11:I3:1001:CYC:HBC2	2.13	0.87
7:X3:81:CYS:SG	11:X3:1001:CYC:HBC2	2.13	0.87
7:u3:81:CYS:SG	11:u3:1001:CYC:HBC2	2.13	0.87
7:u3:154:ASP:OD2	8:P7:46:ALA:CB	2.18	0.87
11:F4:201:CYC:HBC3	3:G4:142:VAL:HG23	1.54	0.87
2:H4:19:LEU:HD22	2:H4:19:LEU:H	1.39	0.87
2:U4:19:LEU:CD2	3:V4:95:TYR:CE1	2.57	0.87
2:U4:149:GLU:C	2:U4:153:TYR:HD2	1.81	0.87
2:Y4:84:CYS:SG	11:Y4:201:CYC:HAC1	2.14	0.87
2:D5:28:TYR:OH	11:D5:201:CYC:C4B	2.22	0.87
3:E8:138:ALA:O	3:E8:142:VAL:HG23	1.73	0.87
2:F8:103:GLY:CA	2:J8:22:THR:HG23	2.02	0.87
3:I1:151:GLY:HA3	11:I1:202:CYC:HMD2	1.55	0.87
8:z3:46:ALA:HB2	7:Q7:154:ASP:OD1	1.74	0.87
2:B4:64:PRO:HB3	2:J5:138:ALA:HB1	1.52	0.87
3:E4:127:VAL:HG22	11:E4:201:CYC:CBC	2.04	0.87
2:F4:19:LEU:HD12	2:F4:23:GLU:CD	1.97	0.87
2:F4:159:ASN:ND2	3:K4:46:ASN:O	2.08	0.87
11:A8:301:CYC:CBC	3:C8:127:VAL:HG22	2.04	0.87
2:F8:159:ASN:ND2	3:K8:46:ASN:O	2.08	0.87
3:K8:127:VAL:HG22	11:K8:201:CYC:CBC	2.04	0.87
2:D1:28:TYR:OH	11:D1:201:CYC:C4B	2.22	0.87
2:B2:79:ARG:HH22	3:G2:57:ARG:NH2	1.72	0.87
2:F8:103:GLY:HA3	2:J8:22:THR:HG21	1.55	0.87
11:I8:203:CYC:HAC1	2:J8:84:CYS:SG	2.15	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O8:22:THR:HG21	2:W8:103:GLY:HA2	1.52	0.87
2:Y8:149:GLU:O	2:Y8:153:TYR:CD2	2.27	0.87
3:Z8:127:VAL:HG22	11:Z8:201:CYC:CBC	2.04	0.87
2:H1:122:PHE:HE2	11:H1:201:CYC:HAA1	1.36	0.87
3:T1:151:GLY:HA3	11:T1:201:CYC:HMD2	1.55	0.87
2:L4:36:PHE:CB	2:L4:145:ASP:OD1	2.21	0.87
2:Y4:149:GLU:O	2:Y4:153:TYR:CD2	2.27	0.87
2:W8:28:TYR:CE1	3:X8:38:SER:OG	2.28	0.87
2:Q1:122:PHE:CE2	11:Q1:201:CYC:CAA	2.54	0.87
3:Z1:151:GLY:HA3	11:Z1:202:CYC:HMD2	1.55	0.87
7:u3:3:ILE:HD11	7:O7:25:ARG:NH2	1.84	0.87
7:w3:73:TYR:HH	1:A5:196:TRP:HB2	1.39	0.87
3:G4:127:VAL:HG22	11:G4:202:CYC:CBC	2.04	0.87
2:L4:84:CYS:SG	11:L4:201:CYC:HAC1	2.15	0.87
11:N4:301:CYC:CBC	3:R4:127:VAL:HG22	2.04	0.87
2:Y4:86:ARG:NH2	11:Y4:201:CYC:O2A	2.03	0.87
3:P5:57:ARG:NH1	11:Q5:201:CYC:O2D	2.06	0.87
2:H8:84:CYS:SG	11:M8:201:CYC:HAC1	2.15	0.87
3:P8:127:VAL:HG22	11:P8:201:CYC:CBC	2.04	0.87
3:X8:127:VAL:HG22	11:X8:201:CYC:CBC	2.04	0.87
2:L1:122:PHE:CE2	11:L1:201:CYC:CAA	2.54	0.87
3:C2:36:LYS:CE	11:C2:202:CYC:O1D	2.23	0.87
7:I3:113:ARG:HD3	7:C7:117:LYS:HZ2	1.07	0.87
2:L4:19:LEU:HD22	2:L4:19:LEU:H	1.39	0.87
2:S4:149:GLU:O	2:S4:153:TYR:CD2	2.28	0.87
3:V4:127:VAL:HG22	11:V4:201:CYC:CBC	2.04	0.87
3:X4:127:VAL:HG22	11:X4:201:CYC:CBC	2.04	0.87
2:Y4:149:GLU:O	2:Y4:153:TYR:N	2.06	0.87
2:D8:4:PRO:HD3	2:L8:22:THR:CG2	2.03	0.87
3:V8:153:CYS:HB2	11:V8:202:CYC:HAC2	1.55	0.87
3:G1:151:GLY:HA3	11:G1:202:CYC:HMD2	1.55	0.87
7:N3:81:CYS:SG	11:N3:1001:CYC:HBC2	2.13	0.87
7:d3:78:THR:CG2	1:A6:199:ALA:HB3	2.04	0.87
3:Z4:154:SER:O	3:Z4:158:GLN:HB2	1.75	0.87
3:C5:151:GLY:HA3	11:C5:201:CYC:HMD2	1.55	0.87
2:S5:122:PHE:CE2	11:S5:201:CYC:CAA	2.54	0.87
11:P6:202:CYC:HMD1	11:P6:202:CYC:HC	1.37	0.87
2:S8:18:PHE:HD2	3:T8:45:THR:OG1	1.58	0.87
3:T8:127:VAL:HG22	11:T8:201:CYC:CBC	2.04	0.87
3:E2:151:GLY:HA3	11:E2:202:CYC:CMD	2.05	0.87
7:d3:82:LEU:HB2	1:A6:203:PHE:CD1	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:u3:76:GLU:HG2	1:A8:203:PHE:CD2	2.07	0.87
2:W4:84:CYS:SG	11:W4:201:CYC:HAC1	2.14	0.87
2:W4:149:GLU:CG	2:W4:153:TYR:HE2	1.87	0.87
2:H5:84:CYS:CB	11:H5:201:CYC:HAC1	2.05	0.87
11:V6:202:CYC:HMD1	11:V6:202:CYC:HC	1.37	0.87
2:Q8:155:ASP:OD1	3:V8:46:ASN:ND2	2.08	0.87
2:S8:149:GLU:O	2:S8:153:TYR:CD2	2.28	0.87
2:Y8:149:GLU:O	2:Y8:153:TYR:N	2.06	0.87
3:C1:151:GLY:HA3	11:C1:201:CYC:HMD2	1.55	0.87
11:C1:202:CYC:HAA1	2:D1:122:PHE:HE2	1.36	0.87
2:F1:84:CYS:CB	11:F1:201:CYC:HAC1	2.05	0.87
3:T2:37:ARG:HA	3:T2:156:LEU:HD11	1.55	0.87
3:Z2:151:GLY:N	11:Z2:203:CYC:OB	2.08	0.87
5:03:720:ASP:HB3	8:R7:107:ARG:HH21	1.39	0.87
7:d3:82:LEU:C	1:A6:203:PHE:CZ	2.53	0.87
7:o3:59:PHE:C	1:A5:226:GLN:HE22	1.79	0.87
7:w3:51:ILE:HG21	1:A4:218:PHE:HE1	1.39	0.87
7:w3:77:MET:SD	1:A5:201:ARG:HB3	2.13	0.87
3:M5:151:GLY:HA3	11:M5:202:CYC:HMD2	1.55	0.87
3:E6:153:CYS:SG	11:E6:202:CYC:HBC1	2.14	0.87
2:F8:28:TYR:HB3	2:J8:32:ARG:HD3	1.55	0.87
2:L8:99:LEU:HD11	2:L8:149:GLU:OE1	1.75	0.87
2:S1:84:CYS:CB	11:S1:201:CYC:HAC1	2.05	0.86
5:13:561:ASN:OD1	11:I7:1001:CYC:HMA3	1.73	0.86
7:X3:20:PRO:CB	7:H7:151:ALA:HB1	2.02	0.86
7:q3:70:GLY:N	7:V7:64:ASP:OD2	2.08	0.86
7:u3:154:ASP:OD1	8:P7:46:ALA:HB1	1.75	0.86
2:D4:84:CYS:SG	11:D4:201:CYC:HAC1	2.15	0.86
2:J5:84:CYS:CB	11:J5:201:CYC:HAC1	2.05	0.86
2:S5:84:CYS:CB	11:S5:201:CYC:HAC1	2.05	0.86
11:E8:203:CYC:HAC1	2:F8:84:CYS:SG	2.14	0.86
2:F8:149:GLU:O	2:F8:153:TYR:CD2	2.28	0.86
2:L8:36:PHE:CB	2:L8:145:ASP:OD1	2.21	0.86
3:R1:151:GLY:HA3	11:R1:202:CYC:HMD2	1.55	0.86
7:I3:151:ALA:CB	7:A7:20:PRO:HB2	1.98	0.86
7:d3:83:ARG:HA	1:A6:203:PHE:HZ	1.37	0.86
7:o3:76:GLU:CB	1:A4:203:PHE:CE2	2.57	0.86
7:q3:75:GLU:N	7:q3:75:GLU:OE1	2.08	0.86
2:D4:25:GLN:NE2	2:L4:33:GLN:CG	2.38	0.86
3:G4:37:ARG:HA	3:G4:156:LEU:HD21	1.55	0.86
2:J4:19:LEU:H	2:J4:19:LEU:HD22	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O4:201:CYC:H2A	3:T4:67:ILE:HD12	1.41	0.86
11:P4:203:CYC:HAC1	2:Q4:84:CYS:SG	2.15	0.86
3:T4:127:VAL:HG22	11:T4:201:CYC:CBC	2.04	0.86
2:U4:84:CYS:SG	11:U4:201:CYC:HAC1	2.15	0.86
2:F5:24:LEU:HD13	11:G5:202:CYC:HBB2	1.57	0.86
11:G5:202:CYC:CAB	2:J5:149:GLU:OE2	2.22	0.86
2:W8:84:CYS:SG	11:W8:201:CYC:HAC1	2.14	0.86
2:W8:149:GLU:CG	2:W8:153:TYR:HE2	1.87	0.86
3:X8:51:ILE:CD1	3:X8:141:ILE:HD12	2.00	0.86
1:A1:201:ARG:NH2	7:q3:70:GLY:O	2.08	0.86
11:C1:202:CYC:HAC1	2:D1:84:CYS:CB	2.05	0.86
11:G1:202:CYC:CAB	2:J1:149:GLU:OE2	2.22	0.86
11:X1:203:CYC:HAC1	2:Y1:84:CYS:CB	2.05	0.86
7:s3:25:ARG:HG3	7:X7:25:ARG:CZ	2.05	0.86
11:E4:203:CYC:HAC1	2:F4:84:CYS:SG	2.15	0.86
3:I4:139:VAL:HA	3:I4:142:VAL:HG11	1.53	0.86
3:V4:37:ARG:HH12	3:V4:159:GLU:CD	1.83	0.86
11:C5:202:CYC:HAC1	2:D5:84:CYS:CB	2.05	0.86
3:G5:151:GLY:HA3	11:G5:202:CYC:HMD2	1.55	0.86
11:B6:201:CYC:O2D	3:G6:57:ARG:CZ	2.23	0.86
3:I8:82:CYS:HG	11:I8:201:CYC:HAC1	1.04	0.86
2:Q8:36:PHE:HZ	2:Q8:149:GLU:OE2	1.57	0.86
2:S8:84:CYS:SG	11:S8:201:CYC:HAC1	2.14	0.86
2:B1:84:CYS:CB	11:B1:201:CYC:HAC1	2.05	0.86
11:C1:202:CYC:CAA	2:D1:122:PHE:CE2	2.54	0.86
2:H1:84:CYS:CB	11:H1:201:CYC:HAC1	2.05	0.86
2:J1:94:MET:HE3	11:J1:201:CYC:CBB	2.06	0.86
2:U1:84:CYS:CB	11:U1:201:CYC:HAC1	2.05	0.86
3:I2:146:ALA:O	3:I2:148:VAL:HG23	1.75	0.86
8:c3:67:ARG:HD3	1:A6:213:GLY:N	1.88	0.86
7:d3:73:TYR:CD1	1:A6:194:VAL:CB	2.56	0.86
7:y3:25:ARG:HG3	7:Q7:25:ARG:CZ	2.04	0.86
2:B4:84:CYS:SG	11:G4:201:CYC:HAC1	2.15	0.86
11:I4:203:CYC:HAC1	2:J4:84:CYS:SG	2.15	0.86
3:P5:151:GLY:HA3	11:P5:202:CYC:HMD2	1.55	0.86
2:U5:94:MET:HE3	11:U5:201:CYC:CBB	2.06	0.86
2:F8:150:THR:O	2:F8:154:ILE:N	2.08	0.86
3:I8:139:VAL:C	3:I8:142:VAL:HG13	2.01	0.86
2:J8:19:LEU:HD22	2:J8:19:LEU:H	1.39	0.86
11:N8:301:CYC:C4C	3:R8:82:CYS:SG	2.64	0.86
3:P8:84:ARG:NH2	11:P8:201:CYC:O2A	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X8:137:ALA:O	3:X8:141:ILE:HG13	1.74	0.86
2:F1:94:MET:HE3	11:F1:201:CYC:CBB	2.06	0.86
3:E2:153:CYS:SG	11:E2:202:CYC:HBC1	2.14	0.86
11:13:904:CYC:CGA	8:h3:83:ARG:HH22	1.88	0.86
8:c3:83:ARG:HH22	11:c3:1001:CYC:CGA	1.88	0.86
7:o3:77:MET:HE1	1:A4:201:ARG:CG	2.04	0.86
3:E4:82:CYS:SG	11:E4:201:CYC:C4C	2.64	0.86
11:F4:201:CYC:HBC3	3:G4:142:VAL:CG2	2.04	0.86
2:J4:24:LEU:CD2	3:K4:42:SER:HB3	2.04	0.86
3:P4:82:CYS:SG	11:P4:201:CYC:C4C	2.64	0.86
8:P7:66:THR:CG2	11:Q7:1001:CYC:O1A	2.16	0.86
3:Z8:154:SER:O	3:Z8:158:GLN:HB2	1.75	0.86
11:V1:202:CYC:HAC1	2:W1:84:CYS:CB	2.05	0.86
3:X2:110:LEU:HD22	3:X2:170:ALA:CB	2.04	0.86
5:03:561:ASN:OD1	11:B7:1001:CYC:HMA3	1.76	0.86
7:q3:3:ILE:HD12	7:q3:25:ARG:HH21	1.05	0.86
7:u3:6:LYS:HZ3	7:O7:10:ASN:HD21	1.24	0.86
2:F4:19:LEU:CG	2:F4:23:GLU:HG2	2.05	0.86
2:F4:150:THR:O	2:F4:154:ILE:N	2.08	0.86
3:K4:151:GLY:CA	11:K4:202:CYC:CMD	2.52	0.86
3:R4:57:ARG:NH1	11:S4:201:CYC:O2D	2.07	0.86
2:S4:18:PHE:HD2	3:T4:45:THR:OG1	1.58	0.86
3:G5:153:CYS:SG	11:G5:202:CYC:CBC	2.64	0.86
11:V5:202:CYC:HAC1	2:W5:84:CYS:CB	2.05	0.86
11:V5:202:CYC:CBB	2:W5:94:MET:HE3	2.06	0.86
2:B8:84:CYS:SG	11:G8:201:CYC:HAC1	2.15	0.86
3:E8:82:CYS:SG	11:E8:201:CYC:C4C	2.64	0.86
3:I8:82:CYS:SG	11:I8:201:CYC:C4C	2.64	0.86
3:I8:142:VAL:O	11:I8:202:CYC:HBC3	1.76	0.86
2:H1:94:MET:HE3	11:H1:201:CYC:CBB	2.06	0.86
3:I1:153:CYS:SG	11:I1:202:CYC:CBC	2.64	0.86
3:Z1:153:CYS:SG	11:Z1:202:CYC:CBC	2.64	0.86
7:w3:21:GLY:C	7:S7:25:ARG:HH21	1.82	0.86
2:J4:64:PRO:HB3	2:J5:61:SER:HG	1.34	0.86
3:K4:155:SER:O	3:K4:158:GLN:CB	2.24	0.86
2:Y4:149:GLU:CB	2:Y4:153:TYR:CD2	2.59	0.86
11:D5:201:CYC:CBC	3:E5:153:CYS:SG	2.64	0.86
3:K5:153:CYS:SG	11:K5:202:CYC:CBC	2.64	0.86
2:L5:84:CYS:CB	11:L5:201:CYC:HAC1	2.05	0.86
3:T5:153:CYS:SG	11:T5:201:CYC:CBC	2.64	0.86
3:V6:37:ARG:HA	3:V6:156:LEU:CD2	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D8:84:CYS:SG	11:D8:201:CYC:HAC1	2.15	0.86
3:K8:155:SER:O	3:K8:158:GLN:CB	2.24	0.86
2:O8:84:CYS:SG	11:O8:201:CYC:HAC1	2.14	0.86
2:Y8:84:CYS:SG	11:Y8:201:CYC:HAC1	2.14	0.86
11:C1:202:CYC:CBB	2:D1:94:MET:HE3	2.06	0.86
2:J1:84:CYS:CB	11:J1:201:CYC:HAC1	2.05	0.86
3:P1:151:GLY:HA3	11:P1:202:CYC:HMD2	1.55	0.86
2:S1:122:PHE:CE2	11:S1:201:CYC:CAA	2.54	0.86
5:03:443:TYR:CZ	5:03:611:ILE:HG23	2.10	0.86
8:n3:83:ARG:HH22	11:n3:1001:CYC:CGA	1.88	0.86
7:o3:79:ALA:HB1	1:A5:218:PHE:O	1.74	0.86
3:K4:82:CYS:SG	11:K4:201:CYC:C4C	2.64	0.86
3:V4:82:CYS:SG	11:V4:201:CYC:C4C	2.64	0.86
2:F5:84:CYS:CB	11:F5:201:CYC:HAC1	2.05	0.86
3:R5:153:CYS:SG	11:R5:202:CYC:CBC	2.64	0.86
2:U5:84:CYS:CB	11:U5:201:CYC:HAC1	2.05	0.86
11:U6:201:CYC:O1A	3:Z6:57:ARG:NH2	2.07	0.86
2:D8:25:GLN:NE2	2:L8:33:GLN:CG	2.38	0.86
2:F8:149:GLU:O	2:F8:153:TYR:HD2	1.59	0.86
2:H8:19:LEU:HD22	2:H8:19:LEU:H	1.39	0.86
3:I8:51:ILE:CD1	3:I8:141:ILE:CD1	2.51	0.86
2:L8:84:CYS:SG	11:L8:201:CYC:HAC1	2.15	0.86
3:M8:82:CYS:SG	11:M8:202:CYC:C4C	2.64	0.86
3:T8:82:CYS:SG	11:T8:201:CYC:C4C	2.64	0.86
3:V8:82:CYS:SG	11:V8:201:CYC:C4C	2.64	0.86
3:T1:153:CYS:SG	11:T1:201:CYC:CBC	2.64	0.86
3:X1:153:CYS:SG	11:X1:202:CYC:CBC	2.64	0.86
11:13:903:CYC:CGA	8:a3:83:ARG:HH22	1.88	0.86
8:x3:83:ARG:HH22	11:x3:1001:CYC:CGA	1.88	0.86
3:E4:142:VAL:CG1	3:E4:156:LEU:HD21	2.04	0.86
3:M4:82:CYS:SG	11:M4:202:CYC:C4C	2.64	0.86
3:I5:153:CYS:SG	11:I5:202:CYC:CBC	2.64	0.86
2:L5:94:MET:HE3	11:L5:201:CYC:CBB	2.06	0.86
2:O5:84:CYS:CB	11:O5:201:CYC:HAC1	2.05	0.86
2:Q5:84:CYS:CB	11:Q5:201:CYC:HAC1	2.05	0.86
3:R5:151:GLY:HA3	11:R5:202:CYC:HMD2	1.55	0.86
11:U5:202:CYC:CBC	3:V5:153:CYS:SG	2.64	0.86
3:X5:153:CYS:SG	11:X5:202:CYC:CBC	2.64	0.86
3:R6:37:ARG:HA	3:R6:156:LEU:HD11	1.57	0.86
2:Y8:149:GLU:CB	2:Y8:153:TYR:CD2	2.58	0.86
3:Z8:82:CYS:SG	11:Z8:201:CYC:C4C	2.64	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L1:84:CYS:CB	11:L1:201:CYC:HAC1	2.05	0.86
2:Q1:84:CYS:CB	11:Q1:201:CYC:HAC1	2.05	0.86
3:R1:153:CYS:SG	11:R1:202:CYC:CBC	2.64	0.86
1:A2:227:ILE:HG12	7:I3:66:VAL:HG11	1.55	0.86
8:H3:83:ARG:HH22	11:H3:1001:CYC:CGA	1.88	0.86
8:W3:83:ARG:HH22	11:W3:1001:CYC:CGA	1.88	0.86
8:c3:67:ARG:HD3	1:A6:213:GLY:C	2.00	0.86
7:w3:25:ARG:HD3	7:w3:25:ARG:C	2.00	0.86
11:A4:301:CYC:C4C	3:C4:82:CYS:SG	2.64	0.86
3:I4:82:CYS:HG	11:I4:201:CYC:CAC	1.69	0.86
3:I4:139:VAL:C	3:I4:142:VAL:HG13	2.01	0.86
3:T4:82:CYS:SG	11:T4:201:CYC:C4C	2.64	0.86
2:B5:84:CYS:CB	11:B5:201:CYC:HAC1	2.05	0.86
2:B5:94:MET:HE3	11:B5:201:CYC:CBB	2.06	0.86
3:G8:82:CYS:SG	11:G8:202:CYC:C4C	2.64	0.86
2:U8:84:CYS:SG	11:U8:201:CYC:HAC1	2.14	0.86
2:F1:24:LEU:HD13	11:G1:202:CYC:HBB2	1.57	0.85
3:I2:57:ARG:NH2	11:I2:203:CYC:O2D	2.09	0.85
5:03:513:ASN:O	5:03:514:GLU:CG	2.23	0.85
7:u3:76:GLU:HB3	1:A8:203:PHE:CZ	2.10	0.85
8:v3:83:ARG:HH22	11:v3:1001:CYC:CGA	1.88	0.85
1:A4:196:TRP:HZ2	7:X7:63:PRO:HD3	1.40	0.85
2:B4:149:GLU:O	2:B4:153:TYR:CD2	2.29	0.85
11:O4:201:CYC:O2A	3:T4:67:ILE:HD12	1.76	0.85
3:P4:84:ARG:NH2	11:P4:201:CYC:O2A	2.08	0.85
3:P4:139:VAL:O	3:P4:143:MET:N	2.09	0.85
2:Q4:155:ASP:OD1	3:V4:46:ASN:ND2	2.08	0.85
2:U4:23:GLU:O	2:U4:26:TYR:HB2	1.76	0.85
2:F5:94:MET:HE3	11:F5:201:CYC:CBB	2.06	0.85
2:J5:94:MET:HE3	11:J5:201:CYC:CBB	2.06	0.85
7:X7:62:ARG:NE	7:X7:64:ASP:OD1	2.08	0.85
11:A8:301:CYC:C4C	3:C8:82:CYS:SG	2.64	0.85
3:P8:82:CYS:SG	11:P8:201:CYC:C4C	2.64	0.85
11:P8:203:CYC:HAC1	2:Q8:84:CYS:SG	2.15	0.85
3:G1:153:CYS:SG	11:G1:202:CYC:CBC	2.64	0.85
2:Q1:94:MET:HE3	11:Q1:201:CYC:CBB	2.06	0.85
7:I3:102:THR:O	7:I3:106:GLU:HB2	1.77	0.85
7:d3:102:THR:O	7:d3:106:GLU:HB2	1.77	0.85
2:H4:84:CYS:SG	11:M4:201:CYC:HAC1	2.14	0.85
11:X5:203:CYC:HAC1	2:Y5:84:CYS:CB	2.05	0.85
3:E6:151:GLY:HA3	11:E6:202:CYC:CMD	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z6:151:GLY:N	11:Z6:202:CYC:OB	2.08	0.85
8:O3:83:ARG:HH22	11:O3:1001:CYC:CGA	1.88	0.85
8:U3:83:ARG:HH22	11:U3:1001:CYC:CGA	1.88	0.85
7:X3:66:VAL:HG11	1:A6:227:ILE:HG12	1.57	0.85
7:o3:82:LEU:HB3	1:A5:218:PHE:CD2	2.12	0.85
8:t3:83:ARG:HH22	11:t3:1001:CYC:CGA	1.88	0.85
7:u3:102:THR:O	7:u3:106:GLU:HB2	1.77	0.85
1:A4:214:ASP:CB	1:A4:217:LEU:CD1	2.52	0.85
2:F4:103:GLY:HA3	2:J4:22:THR:HG21	1.55	0.85
2:F4:149:GLU:O	2:F4:153:TYR:CD2	2.28	0.85
3:Z4:82:CYS:SG	11:Z4:201:CYC:C4C	2.64	0.85
3:Z4:145:PRO:HB3	11:Z4:202:CYC:HBB2	1.58	0.85
2:H5:94:MET:HE3	11:H5:201:CYC:CBB	2.06	0.85
3:M5:153:CYS:SG	11:M5:202:CYC:CBC	2.64	0.85
3:M6:110:LEU:HD22	3:M6:170:ALA:CB	2.07	0.85
2:B1:94:MET:HE3	11:B1:201:CYC:CBB	2.06	0.85
3:K1:153:CYS:SG	11:K1:202:CYC:CBC	2.64	0.85
11:U1:202:CYC:CBC	3:V1:153:CYS:SG	2.64	0.85
1:A2:207:ASP:OD2	8:O3:17:LYS:HG2	1.74	0.85
11:03:902:CYC:CGA	8:L3:83:ARG:HH22	1.88	0.85
7:R3:102:THR:O	7:R3:106:GLU:HB2	1.77	0.85
7:d3:82:LEU:CD1	1:A6:203:PHE:HB2	2.07	0.85
3:M4:82:CYS:HG	11:M4:202:CYC:CAC	1.77	0.85
3:C5:153:CYS:SG	11:C5:201:CYC:CBC	2.64	0.85
3:K5:151:GLY:HA3	11:K5:202:CYC:HMD2	1.55	0.85
7:X7:81:CYS:HG	11:X7:1001:CYC:HAC2	1.39	0.85
2:B8:149:GLU:O	2:B8:153:TYR:CD2	2.29	0.85
3:Z8:145:PRO:HB3	11:Z8:202:CYC:HBB2	1.59	0.85
2:H1:122:PHE:CE2	11:H1:201:CYC:CAA	2.54	0.85
2:J1:54:GLY:HA2	2:J8:68:SER:CB	2.05	0.85
2:O1:84:CYS:CB	11:O1:201:CYC:HAC1	2.05	0.85
7:Z3:64:ASP:O	7:H7:64:ASP:OD1	1.93	0.85
7:Z3:69:GLY:C	7:H7:64:ASP:OD2	2.18	0.85
7:k3:102:THR:O	7:k3:106:GLU:HB2	1.77	0.85
3:G4:82:CYS:SG	11:G4:202:CYC:C4C	2.64	0.85
3:I4:82:CYS:SG	11:I4:201:CYC:C4C	2.64	0.85
3:I4:151:GLY:HA3	11:I4:202:CYC:CMD	2.06	0.85
2:O4:84:CYS:SG	11:O4:201:CYC:HAC1	2.14	0.85
2:Q5:94:MET:HE3	11:Q5:201:CYC:CBB	2.06	0.85
3:K8:82:CYS:SG	11:K8:201:CYC:C4C	2.64	0.85
2:S8:19:LEU:HD21	3:T8:95:TYR:CE1	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U8:23:GLU:O	2:U8:26:TYR:HB2	1.76	0.85
3:C1:153:CYS:SG	11:C1:201:CYC:CBC	2.64	0.85
11:D1:201:CYC:CBC	3:E1:153:CYS:SG	2.64	0.85
2:L1:94:MET:HE3	11:L1:201:CYC:CBB	2.06	0.85
3:M1:153:CYS:SG	11:M1:202:CYC:CBC	2.64	0.85
3:P1:153:CYS:SG	11:P1:202:CYC:CBC	2.64	0.85
8:M3:83:ARG:HH22	11:M3:201:CYC:CGA	1.88	0.85
8:S3:83:ARG:HH22	11:S3:1001:CYC:CGA	1.88	0.85
7:q3:102:THR:O	7:q3:106:GLU:HB2	1.77	0.85
7:q3:113:ARG:NH2	7:q3:161:GLU:HA	1.91	0.85
7:u3:70:GLY:CA	7:Q7:64:ASP:CG	2.49	0.85
3:C4:36:LYS:O	3:C4:156:LEU:HD11	1.77	0.85
11:N4:301:CYC:C4C	3:R4:82:CYS:SG	2.64	0.85
3:P5:153:CYS:SG	11:P5:202:CYC:CBC	2.64	0.85
2:O8:21:ASN:CB	2:W8:152:ASN:HD21	1.83	0.85
3:X8:36:LYS:HB2	3:X8:156:LEU:HD11	1.59	0.85
11:V1:202:CYC:CBB	2:W1:94:MET:HE3	2.06	0.85
3:V2:37:ARG:HA	3:V2:156:LEU:CD2	2.06	0.85
8:J3:46:ALA:HB2	7:A7:154:ASP:OD1	1.77	0.85
7:d3:73:TYR:HE1	1:A6:194:VAL:HB	0.85	0.85
7:o3:72:ALA:HA	7:o3:77:MET:HB3	1.56	0.85
7:u3:113:ARG:NH1	7:Q7:117:LYS:HE3	1.91	0.85
2:F4:149:GLU:C	2:F4:153:TYR:HD2	1.85	0.85
2:L4:149:GLU:O	2:L4:153:TYR:CD2	2.29	0.85
3:Z4:153:CYS:SG	3:Z4:156:LEU:HB2	2.16	0.85
3:C5:153:CYS:SG	11:C5:201:CYC:HBC1	2.17	0.85
11:C5:202:CYC:CBB	2:D5:94:MET:HE3	2.06	0.85
2:F5:84:CYS:HG	11:F5:201:CYC:HAC2	1.41	0.85
3:X5:151:GLY:HA3	11:X5:202:CYC:HMD2	1.55	0.85
2:J8:140:HIS:CE1	2:J8:142:LEU:HB2	2.11	0.85
3:K8:51:ILE:HD11	3:K8:141:ILE:CD1	2.07	0.85
11:O8:201:CYC:O2A	3:T8:67:ILE:HD12	1.76	0.85
2:U1:122:PHE:CE2	11:U1:201:CYC:CAA	2.54	0.85
3:R2:37:ARG:HA	3:R2:156:LEU:HD11	1.58	0.85
8:e3:83:ARG:HH22	11:e3:1001:CYC:CGA	1.88	0.85
8:r3:83:ARG:HH22	11:r3:1001:CYC:CGA	1.88	0.85
7:w3:77:MET:CE	1:A5:201:ARG:CB	1.76	0.85
3:I4:151:GLY:N	11:I4:202:CYC:HMD2	1.92	0.85
2:S4:84:CYS:SG	11:S4:201:CYC:HAC1	2.14	0.85
3:P5:153:CYS:SG	11:P5:202:CYC:HBC1	2.17	0.85
2:S5:94:MET:HE3	11:S5:201:CYC:CBB	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E8:153:CYS:HG	11:E8:202:CYC:H2C	1.38	0.85
3:K8:139:VAL:CA	3:K8:142:VAL:CG1	2.54	0.85
3:X8:82:CYS:SG	11:X8:201:CYC:C4C	2.64	0.85
7:K3:102:THR:O	7:K3:106:GLU:HB2	1.77	0.85
7:N3:102:THR:O	7:N3:106:GLU:HB2	1.77	0.85
7:w3:102:THR:O	7:w3:106:GLU:HB2	1.77	0.85
2:D4:86:ARG:NH2	11:D4:201:CYC:O2A	2.03	0.85
3:I4:142:VAL:O	11:I4:202:CYC:HBC3	1.76	0.85
3:V4:139:VAL:CA	3:V4:142:VAL:HG13	1.98	0.85
2:W4:28:TYR:CE1	3:X4:38:SER:OG	2.28	0.85
3:G5:153:CYS:SG	11:G5:202:CYC:HBC1	2.17	0.85
3:Z5:153:CYS:SG	11:Z5:202:CYC:HBC1	2.17	0.85
2:J8:24:LEU:CD2	3:K8:42:SER:HB3	2.04	0.85
11:O8:201:CYC:H2A	3:T8:67:ILE:HD12	1.42	0.85
2:Q8:24:LEU:HB2	11:R8:201:CYC:HBB1	1.56	0.85
3:T2:151:GLY:CA	11:T2:202:CYC:HMD2	1.80	0.85
5:03:512:ASN:HA	6:G7:23:GLN:HE22	1.04	0.85
8:p3:83:ARG:HH22	11:p3:1001:CYC:CGA	1.88	0.85
2:F4:24:LEU:HD12	11:F4:201:CYC:OB	1.77	0.85
11:F4:201:CYC:CBC	3:G4:142:VAL:HG22	2.05	0.85
3:K4:51:ILE:HD11	3:K4:141:ILE:CD1	2.07	0.85
3:K5:153:CYS:SG	11:K5:202:CYC:HBC1	2.17	0.85
3:Z5:151:GLY:HA3	11:Z5:202:CYC:HMD2	1.55	0.85
2:J6:24:LEU:HB2	11:K6:202:CYC:HBB1	1.59	0.85
3:K6:57:ARG:HA	3:K6:57:ARG:HE	1.42	0.85
3:C8:42:SER:CA	3:C8:45:THR:CG2	2.52	0.85
3:P8:139:VAL:O	3:P8:143:MET:N	2.09	0.85
2:Q8:18:PHE:CE1	3:R8:91:ARG:HB2	2.12	0.85
2:W8:150:THR:HG22	2:W8:154:ILE:CD1	2.07	0.85
11:U1:202:CYC:HBC1	3:V1:153:CYS:SG	2.17	0.84
7:G3:102:THR:O	7:G3:106:GLU:HB2	1.77	0.84
7:b3:102:THR:O	7:b3:106:GLU:HB2	1.77	0.84
11:A4:301:CYC:HAC1	3:C4:82:CYS:HG	0.76	0.84
2:S4:19:LEU:HD21	3:T4:95:TYR:CE1	2.10	0.84
1:A5:203:PHE:CE2	1:A5:204:ARG:CD	2.50	0.84
3:Z5:153:CYS:SG	11:Z5:202:CYC:CBC	2.64	0.84
2:F8:149:GLU:C	2:F8:153:TYR:HD2	1.85	0.84
2:Y8:99:LEU:CD1	2:Y8:149:GLU:OE2	2.25	0.84
3:Z8:153:CYS:SG	3:Z8:156:LEU:HB2	2.16	0.84
1:A1:211:GLN:O	1:A1:214:ASP:OD2	1.94	0.84
3:T1:153:CYS:SG	11:T1:201:CYC:HBC1	2.17	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X1:203:CYC:CBB	2:Y1:94:MET:HE3	2.06	0.84
2:J2:24:LEU:CB	11:K2:202:CYC:CBB	2.56	0.84
8:l3:83:ARG:HH22	11:l3:1001:CYC:CGA	1.88	0.84
7:o3:68:PRO:HB2	1:A4:196:TRP:CD1	2.02	0.84
7:u3:76:GLU:HG2	1:A8:203:PHE:HE2	1.13	0.84
3:K4:143:MET:CE	3:K4:157:GLN:HB2	2.07	0.84
2:Q4:24:LEU:HB2	11:R4:201:CYC:HBB1	1.56	0.84
2:U4:24:LEU:HD11	3:V4:42:SER:CB	2.07	0.84
2:W4:150:THR:HG22	2:W4:154:ILE:CD1	2.07	0.84
3:X4:82:CYS:SG	11:X4:201:CYC:C4C	2.64	0.84
2:O5:94:MET:HE3	11:O5:201:CYC:CBB	2.06	0.84
2:L8:19:LEU:H	2:L8:19:LEU:HD22	1.39	0.84
2:H2:111:LEU:CD2	11:H2:201:CYC:HAB2	1.96	0.84
7:y3:102:THR:O	7:y3:106:GLU:HB2	1.77	0.84
8:z3:83:ARG:HH22	11:z3:1001:CYC:CGA	1.88	0.84
2:L4:149:GLU:CD	2:L4:153:TYR:HE2	1.84	0.84
3:X5:153:CYS:SG	11:X5:202:CYC:HBC1	2.17	0.84
11:F8:201:CYC:CBC	3:G8:142:VAL:HG22	2.05	0.84
3:T8:51:ILE:CD1	3:T8:141:ILE:HD12	2.04	0.84
1:A1:203:PHE:HB3	7:q3:76:GLU:HB3	1.57	0.84
3:G1:153:CYS:SG	11:G1:202:CYC:HBC1	2.17	0.84
3:K1:153:CYS:SG	11:K1:202:CYC:HBC1	2.17	0.84
3:M1:153:CYS:SG	11:M1:202:CYC:HBC1	2.17	0.84
5:13:557:ILE:HD11	8:I7:83:ARG:NH1	1.92	0.84
8:j3:83:ARG:HH22	11:j3:1001:CYC:CGA	1.88	0.84
7:w3:77:MET:HE3	1:A5:201:ARG:CB	2.06	0.84
2:Y4:149:GLU:CB	2:Y4:153:TYR:CE2	2.60	0.84
3:M5:153:CYS:SG	11:M5:202:CYC:HBC1	2.17	0.84
11:X5:203:CYC:CBB	2:Y5:94:MET:HE3	2.06	0.84
3:I6:146:ALA:O	3:I6:148:VAL:HG23	1.75	0.84
3:I8:151:GLY:HA3	11:I8:202:CYC:CMD	2.06	0.84
3:T8:153:CYS:SG	11:T8:202:CYC:CBC	2.55	0.84
2:O1:94:MET:HE3	11:O1:201:CYC:CBB	2.06	0.84
2:S1:94:MET:HE3	11:S1:201:CYC:CBB	2.06	0.84
2:U1:94:MET:HE3	11:U1:201:CYC:CBB	2.06	0.84
7:P3:102:THR:O	7:P3:106:GLU:HB2	1.77	0.84
2:J4:140:HIS:CE1	2:J4:142:LEU:HB2	2.12	0.84
2:L4:51:LEU:HD21	2:L4:139:ASN:OD1	1.77	0.84
2:L4:86:ARG:NH1	11:L4:201:CYC:O2A	2.11	0.84
3:V6:151:GLY:CA	11:V6:202:CYC:HMD3	2.07	0.84
11:F8:201:CYC:HBC1	3:G8:142:VAL:CG2	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U8:149:GLU:O	2:U8:153:TYR:CD2	2.31	0.84
3:I1:153:CYS:SG	11:I1:202:CYC:HBC1	2.17	0.84
3:K2:153:CYS:CB	11:K2:202:CYC:HBC2	2.08	0.84
7:I3:68:PRO:O	7:C7:63:PRO:HG2	1.77	0.84
7:T3:102:THR:O	7:T3:106:GLU:HB2	1.77	0.84
7:f3:102:THR:O	7:f3:106:GLU:HB2	1.77	0.84
3:K4:143:MET:HE1	3:K4:157:GLN:HB2	1.57	0.84
3:T4:143:MET:HE3	3:T4:157:GLN:HB2	1.58	0.84
2:U4:149:GLU:O	2:U4:153:TYR:HD2	1.60	0.84
3:I8:151:GLY:N	11:I8:202:CYC:HMD2	1.92	0.84
11:D1:201:CYC:HBC1	3:E1:153:CYS:SG	2.17	0.84
3:P2:33:GLU:HA	3:P2:36:LYS:CD	2.07	0.84
7:K3:6:LYS:NZ	7:E7:22:GLU:OE1	2.09	0.84
1:A4:194:VAL:CG2	1:A4:196:TRP:CD1	2.61	0.84
2:B4:150:THR:CG2	2:B4:154:ILE:CD1	2.56	0.84
2:W4:86:ARG:NH1	11:W4:201:CYC:O2A	2.11	0.84
3:R5:153:CYS:SG	11:R5:202:CYC:HBC1	2.17	0.84
2:B8:150:THR:CG2	2:B8:154:ILE:CD1	2.56	0.84
3:C8:36:LYS:O	3:C8:156:LEU:HD11	1.77	0.84
2:F8:19:LEU:CG	2:F8:23:GLU:HG2	2.06	0.84
2:L8:51:LEU:HD21	2:L8:139:ASN:OD1	1.77	0.84
3:P8:82:CYS:HG	11:P8:201:CYC:HAC1	1.40	0.84
2:Y8:18:PHE:HD2	3:Z8:45:THR:OG1	1.49	0.84
3:Z8:143:MET:HE1	3:Z8:153:CYS:HB3	1.60	0.84
3:P1:153:CYS:SG	11:P1:202:CYC:HBC1	2.17	0.84
3:V1:57:ARG:HH22	11:V1:202:CYC:CGD	1.91	0.84
3:X1:153:CYS:SG	11:X1:202:CYC:HBC1	2.17	0.84
1:A2:196:TRP:CE3	7:N3:59:PHE:CD2	2.66	0.84
7:X3:102:THR:O	7:X3:106:GLU:HB2	1.77	0.84
7:d3:83:ARG:N	1:A6:203:PHE:CE1	2.46	0.84
11:E4:203:CYC:O2A	2:F4:86:ARG:NH1	2.11	0.84
3:K4:139:VAL:CA	3:K4:142:VAL:CG1	2.54	0.84
3:M8:138:ALA:O	3:M8:142:VAL:HG12	1.77	0.84
2:U8:24:LEU:HD11	3:V8:42:SER:CB	2.07	0.84
2:U8:149:GLU:O	2:U8:153:TYR:HD2	1.60	0.84
3:Z1:153:CYS:SG	11:Z1:202:CYC:HBC1	2.17	0.84
1:A2:213:GLY:H	8:H3:67:ARG:HD3	1.43	0.84
3:G2:151:GLY:HA3	11:G2:201:CYC:HMD1	1.57	0.84
5:03:180:GLU:OE1	5:03:231:VAL:HG12	1.76	0.84
5:13:523:VAL:C	7:J7:106:GLU:OE1	2.21	0.84
7:o3:117:LYS:HZ2	7:X7:113:ARG:NH1	1.52	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s3:102:THR:O	7:s3:106:GLU:HB2	1.77	0.84
8:t3:61:LEU:O	1:A4:206:PRO:HD3	1.76	0.84
2:B8:86:ARG:NH1	11:G8:201:CYC:O2A	2.11	0.84
11:E8:203:CYC:O2A	2:F8:86:ARG:NH1	2.11	0.84
3:R1:153:CYS:SG	11:R1:202:CYC:HBC1	2.17	0.84
3:K2:153:CYS:HB2	11:K2:202:CYC:CBC	2.08	0.84
11:F4:201:CYC:CMD	3:G4:151:GLY:HA3	2.07	0.84
3:T4:51:ILE:CD1	3:T4:141:ILE:HD12	2.04	0.84
11:D5:201:CYC:HBC1	3:E5:153:CYS:SG	2.17	0.84
3:M6:151:GLY:N	11:M6:202:CYC:HMD2	1.92	0.84
11:F8:201:CYC:CMD	3:G8:151:GLY:HA3	2.07	0.84
2:S8:19:LEU:HD21	3:T8:95:TYR:HD1	1.43	0.84
3:V8:139:VAL:C	3:V8:142:VAL:CG1	2.50	0.84
2:J2:24:LEU:HB2	11:K2:202:CYC:HBB1	1.59	0.83
5:03:643:ASP:OD2	6:G7:24:ASN:ND2	2.10	0.83
7:Z3:113:ARG:CD	7:H7:117:LYS:HZ2	1.91	0.83
2:H4:83:LYS:NZ	11:M4:201:CYC:H2A	1.72	0.83
2:U4:86:ARG:NH1	11:U4:201:CYC:O2A	2.11	0.83
3:C1:153:CYS:SG	11:C1:201:CYC:HBC1	2.17	0.83
2:B4:19:LEU:HD21	3:C4:95:TYR:CD1	2.13	0.83
11:F4:201:CYC:HBC1	3:G4:142:VAL:CG2	2.06	0.83
2:L4:36:PHE:HE1	2:L4:149:GLU:OE1	1.59	0.83
2:U4:149:GLU:O	2:U4:153:TYR:CD2	2.31	0.83
3:Z4:143:MET:HA	3:Z4:143:MET:CE	2.08	0.83
3:T5:153:CYS:SG	11:T5:201:CYC:HBC1	2.17	0.83
2:L8:86:ARG:NH1	11:L8:201:CYC:O2A	2.11	0.83
2:O8:21:ASN:OD1	2:W8:149:GLU:HG3	1.79	0.83
2:O8:86:ARG:HH22	3:T8:67:ILE:HD12	1.42	0.83
3:T8:142:VAL:HG23	11:T8:202:CYC:HBC3	1.59	0.83
3:Z8:143:MET:HA	3:Z8:143:MET:CE	2.08	0.83
5:13:523:VAL:CA	7:J7:106:GLU:CD	2.51	0.83
7:d3:56:ASP:OD2	1:A6:200:VAL:CG1	2.26	0.83
7:o3:3:ILE:HD12	7:V7:25:ARG:NH2	1.90	0.83
7:o3:77:MET:HE2	1:A4:201:ARG:CB	2.02	0.83
7:o3:102:THR:O	7:o3:106:GLU:HB2	1.77	0.83
2:B4:140:HIS:CE1	2:B4:142:LEU:HG	2.13	0.83
2:D4:86:ARG:NH1	11:D4:201:CYC:O2A	2.11	0.83
2:F4:149:GLU:O	2:F4:153:TYR:HD2	1.59	0.83
3:M4:138:ALA:O	3:M4:142:VAL:HG12	1.77	0.83
2:O4:21:ASN:OD1	2:W4:149:GLU:HG3	1.79	0.83
2:Q4:18:PHE:CE1	3:R4:91:ARG:HB2	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z4:82:CYS:HG	11:Z4:201:CYC:HAC1	0.76	0.83
3:K8:143:MET:HE3	3:K8:157:GLN:HG3	1.60	0.83
3:X8:67:ILE:HD12	11:Y8:201:CYC:H2A	1.43	0.83
3:I5:153:CYS:SG	11:I5:202:CYC:HBC1	2.17	0.83
11:U5:202:CYC:HBC1	3:V5:153:CYS:SG	2.17	0.83
11:X5:203:CYC:CAA	2:Y5:122:PHE:CE2	2.54	0.83
3:C6:35:THR:HG23	3:C6:36:LYS:HE2	0.85	0.83
3:M8:51:ILE:CD1	3:M8:141:ILE:HD11	2.04	0.83
3:M2:110:LEU:HD22	3:M2:170:ALA:CB	2.07	0.83
7:I3:113:ARG:HH12	7:C7:117:LYS:HG2	1.43	0.83
7:X3:70:GLY:CA	7:J7:64:ASP:OD2	2.26	0.83
11:F4:201:CYC:HAC2	3:G4:153:CYS:HG	1.42	0.83
2:L4:23:GLU:O	2:L4:26:TYR:HB2	1.78	0.83
3:T4:142:VAL:HG23	11:T4:202:CYC:HBC3	1.59	0.83
3:X4:36:LYS:HB2	3:X4:156:LEU:HD11	1.59	0.83
2:Y4:149:GLU:C	2:Y4:153:TYR:CD2	2.55	0.83
3:V6:33:GLU:CB	3:V6:36:LYS:HE2	2.00	0.83
3:K8:143:MET:CE	3:K8:157:GLN:HB2	2.07	0.83
2:Y8:149:GLU:CB	2:Y8:153:TYR:CE2	2.60	0.83
1:A2:214:ASP:OD1	8:H3:67:ARG:NE	2.10	0.83
5:03:524:SER:N	7:C7:106:GLU:OE2	2.11	0.83
7:i3:102:THR:O	7:i3:106:GLU:HB2	1.77	0.83
2:O4:86:ARG:NH2	3:T4:67:ILE:HD12	1.94	0.83
3:Z4:143:MET:HE1	3:Z4:153:CYS:HB3	1.60	0.83
2:J6:24:LEU:CB	11:K6:202:CYC:CBB	2.56	0.83
3:R6:57:ARG:NH2	11:R6:202:CYC:CGD	2.40	0.83
2:Q8:152:ASN:ND2	2:U8:21:ASN:HB2	1.94	0.83
3:K8:143:MET:HE1	3:K8:157:GLN:HB2	1.57	0.83
2:U8:40:ALA:HB2	2:U8:146:ALA:HB1	1.61	0.83
2:F1:122:PHE:CE2	11:F1:201:CYC:CAA	2.54	0.83
2:J1:122:PHE:CE2	11:J1:201:CYC:CAA	2.54	0.83
7:Z3:102:THR:O	7:Z3:106:GLU:HB2	1.77	0.83
8:t3:62:TYR:CE1	1:A4:203:PHE:HB3	2.10	0.83
2:J4:64:PRO:CB	2:J5:58:ALA:CA	2.44	0.83
2:Q4:152:ASN:ND2	2:U4:21:ASN:HB2	1.94	0.83
3:V4:139:VAL:C	3:V4:142:VAL:CG1	2.50	0.83
2:U8:28:TYR:OH	11:V8:202:CYC:CHB	2.27	0.83
3:X8:143:MET:HE1	3:X8:153:CYS:HB3	1.59	0.83
1:A5:209:VAL:HB	1:A5:210:PRO:HD2	0.85	0.83
3:K6:68:ALA:HB2	3:T6:65:GLN:HE22	1.44	0.83
2:B8:140:HIS:CE1	2:B8:142:LEU:HG	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E8:82:CYS:HG	11:E8:201:CYC:HAC1	1.40	0.83
1:A1:203:PHE:HE2	1:A8:215:PRO:HG2	1.40	0.83
3:C4:42:SER:CA	3:C4:45:THR:CG2	2.52	0.83
2:O4:86:ARG:HH22	3:T4:67:ILE:HD12	1.42	0.83
2:S4:149:GLU:C	2:S4:153:TYR:HD2	1.86	0.83
3:C6:155:SER:O	3:C6:158:GLN:HB3	1.79	0.83
3:K6:57:ARG:NH1	11:L6:201:CYC:O1A	2.10	0.83
7:J7:16:ARG:O	8:K7:94:TYR:OH	1.97	0.83
7:K3:113:ARG:NH1	7:A7:117:LYS:CD	2.41	0.82
2:B4:149:GLU:HG3	2:B4:153:TYR:HE2	1.38	0.82
3:C4:145:PRO:CB	11:C4:201:CYC:HMC3	2.09	0.82
11:I4:203:CYC:O2A	2:J4:86:ARG:NH1	2.11	0.82
2:L4:51:LEU:CD2	2:L4:139:ASN:OD1	2.27	0.82
2:S4:24:LEU:HD11	3:T4:42:SER:CB	2.09	0.82
3:Z4:34:GLY:HA2	3:Z4:37:ARG:HH11	1.44	0.82
3:K6:153:CYS:CB	11:K6:202:CYC:HBC2	2.08	0.82
3:Z6:155:SER:O	3:Z6:158:GLN:HB3	1.79	0.82
2:D8:19:LEU:HD12	2:D8:23:GLU:HG2	1.60	0.82
11:I8:203:CYC:O2A	2:J8:86:ARG:NH1	2.11	0.82
2:U8:86:ARG:NH1	11:U8:201:CYC:O2A	2.11	0.82
5:03:642:GLU:OE2	6:G7:42:ARG:NH2	2.12	0.82
7:w3:83:ARG:HD3	1:A4:215:PRO:HA	1.61	0.82
2:B4:86:ARG:NH1	11:G4:201:CYC:O2A	2.11	0.82
2:B4:149:GLU:OE1	2:B4:153:TYR:CE2	2.31	0.82
2:H4:86:ARG:NH1	11:M4:201:CYC:O2A	2.11	0.82
3:I4:138:ALA:O	3:I4:142:VAL:HG12	1.79	0.82
3:K4:143:MET:HE3	3:K4:157:GLN:HG3	1.60	0.82
2:O4:86:ARG:NH1	11:O4:201:CYC:O2A	2.11	0.82
2:U4:28:TYR:OH	11:V4:202:CYC:CHB	2.27	0.82
3:X4:143:MET:HE1	3:X4:153:CYS:HB3	1.59	0.82
3:V5:57:ARG:HH22	11:V5:202:CYC:CGD	1.91	0.82
3:C8:40:ALA:HB1	3:C8:156:LEU:HD13	1.61	0.82
3:X8:36:LYS:HB3	3:X8:156:LEU:HD12	1.59	0.82
7:d3:78:THR:HB	1:A6:199:ALA:CB	2.09	0.82
2:B4:19:LEU:HD21	3:C4:95:TYR:CE1	2.13	0.82
3:I4:40:ALA:HB2	3:I4:156:LEU:HD13	1.60	0.82
2:J4:140:HIS:HE1	2:J4:142:LEU:HB2	1.43	0.82
2:O4:93:ARG:NH1	3:T4:74:TYR:OH	2.13	0.82
2:B8:19:LEU:HD21	3:C8:95:TYR:CD1	2.13	0.82
11:P8:203:CYC:O2A	2:Q8:86:ARG:NH1	2.11	0.82
3:M2:151:GLY:N	11:M2:202:CYC:HMD2	1.92	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d3:59:PHE:HD2	1:A6:196:TRP:CE3	1.95	0.82
7:o3:79:ALA:H	1:A5:222:ALA:HB1	1.43	0.82
7:q3:83:ARG:HD2	1:A8:213:GLY:O	1.79	0.82
2:F4:151:ASN:O	2:F4:155:ASP:HB2	1.79	0.82
1:A5:208:ARG:HA	1:A5:208:ARG:HE	1.44	0.82
3:C8:143:MET:O	11:C8:201:CYC:CMC	2.27	0.82
2:F8:24:LEU:HD11	3:G8:39:ASP:HB2	1.59	0.82
2:L8:23:GLU:O	2:L8:26:TYR:HB2	1.78	0.82
5:03:557:ILE:HD11	8:B7:83:ARG:NH1	1.92	0.82
2:J4:149:GLU:C	2:J4:153:TYR:HD2	1.87	0.82
11:P4:203:CYC:O2A	2:Q4:86:ARG:NH1	2.11	0.82
2:Q4:36:PHE:CD1	2:Q4:145:ASP:HB2	2.13	0.82
3:C8:43:ARG:HH22	3:C8:148:VAL:HG11	1.01	0.82
2:D8:86:ARG:NH1	11:D8:201:CYC:O2A	2.11	0.82
11:E8:203:CYC:H2A	2:F8:83:LYS:NZ	1.74	0.82
2:L8:51:LEU:CD2	2:L8:139:ASN:OD1	2.27	0.82
2:S8:24:LEU:HD11	3:T8:42:SER:CB	2.09	0.82
3:T8:143:MET:HE3	3:T8:157:GLN:HB2	1.58	0.82
3:T2:37:ARG:HA	3:T2:156:LEU:CD1	2.09	0.82
8:J3:81:CYS:SG	11:J3:201:CYC:CBC	2.67	0.82
7:w3:51:ILE:HD13	1:A4:218:PHE:HZ	1.42	0.82
3:C4:143:MET:O	11:C4:201:CYC:CMC	2.27	0.82
11:F4:201:CYC:CBC	3:G4:142:VAL:HG23	2.08	0.82
3:M4:51:ILE:CD1	3:M4:141:ILE:HD11	2.04	0.82
2:O4:22:THR:HG21	2:W4:103:GLY:HA2	1.52	0.82
3:X4:138:ALA:O	3:X4:142:VAL:HG12	1.80	0.82
3:Z4:144:ASP:OD1	3:Z4:145:PRO:HD2	1.80	0.82
2:Q5:122:PHE:CE2	11:Q5:201:CYC:CAA	2.54	0.82
3:C6:57:ARG:HA	3:C6:57:ARG:NE	1.94	0.82
2:J6:24:LEU:HB3	11:K6:202:CYC:CBB	2.10	0.82
3:C8:145:PRO:CB	11:C8:201:CYC:HMC3	2.09	0.82
11:F8:201:CYC:HAC2	3:G8:153:CYS:HG	1.41	0.82
2:J8:140:HIS:HE1	2:J8:142:LEU:HB2	1.42	0.82
2:W8:86:ARG:NH1	11:W8:201:CYC:O2A	2.11	0.82
3:C5:57:ARG:CZ	11:C5:202:CYC:O2D	2.27	0.82
2:H8:86:ARG:NH1	11:M8:201:CYC:O2A	2.11	0.82
3:P8:51:ILE:CD1	3:P8:141:ILE:HD12	2.06	0.82
2:J1:57:GLN:HG2	2:J8:67:THR:HG1	1.38	0.82
7:Z3:113:ARG:CD	7:H7:117:LYS:NZ	2.43	0.82
3:C4:40:ALA:HB1	3:C4:156:LEU:HD13	1.61	0.82
2:F4:24:LEU:HD21	2:F4:28:TYR:HE1	1.01	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O4:22:THR:HG23	2:W4:103:GLY:HA2	1.62	0.82
2:Y4:86:ARG:NH1	11:Y4:201:CYC:O2A	2.11	0.82
2:L5:111:LEU:CD2	11:L5:201:CYC:HAB2	2.10	0.82
2:S5:111:LEU:CD2	11:S5:201:CYC:HAB2	2.10	0.82
3:I6:57:ARG:NH2	11:J6:201:CYC:O2D	2.13	0.82
11:P8:203:CYC:H2A	2:Q8:86:ARG:HH22	0.84	0.82
3:X8:153:CYS:SG	11:X8:202:CYC:HBC1	2.20	0.82
3:Z8:34:GLY:HA2	3:Z8:37:ARG:HH11	1.44	0.82
7:d3:82:LEU:O	1:A6:203:PHE:CZ	2.33	0.82
7:u3:76:GLU:CG	1:A8:203:PHE:CD2	2.50	0.82
2:B5:111:LEU:CD2	11:B5:201:CYC:HAB2	2.10	0.82
2:Q5:111:LEU:CD2	11:Q5:201:CYC:HAB2	2.10	0.82
2:F8:151:ASN:O	2:F8:155:ASP:HB2	1.79	0.82
2:Q8:36:PHE:CD1	2:Q8:145:ASP:HB2	2.13	0.82
3:C1:57:ARG:CZ	11:C1:202:CYC:O2D	2.27	0.82
8:t3:62:TYR:HE1	1:A4:203:PHE:CB	1.50	0.82
11:A4:301:CYC:HBC3	3:C4:127:VAL:HG22	1.62	0.82
3:C4:57:ARG:NH1	2:D4:72:ASN:HD22	1.77	0.82
3:K4:67:ILE:HD12	2:L4:86:ARG:HH22	1.44	0.82
2:H5:28:TYR:OH	11:I5:202:CYC:NB	2.13	0.82
2:J5:111:LEU:CD2	11:J5:201:CYC:HAB2	2.10	0.82
11:V5:202:CYC:HAB2	2:W5:111:LEU:CD2	2.10	0.82
3:C8:139:VAL:HA	3:C8:142:VAL:HG11	1.59	0.82
2:J8:149:GLU:C	2:J8:153:TYR:HD2	1.87	0.82
2:O8:86:ARG:NH2	3:T8:67:ILE:HD12	1.94	0.82
2:S8:32:ARG:HA	2:S8:32:ARG:NE	1.94	0.82
2:Y8:86:ARG:NH1	11:Y8:201:CYC:O2A	2.11	0.82
2:J2:24:LEU:HB3	11:K2:202:CYC:CBB	2.10	0.81
11:13:902:CYC:O1D	8:Y3:76:ARG:NH2	2.12	0.81
7:q3:82:LEU:HB3	1:A8:218:PHE:CD1	2.13	0.81
2:B4:61:SER:HB3	2:J5:141:GLY:HA2	0.82	0.81
3:I4:139:VAL:C	3:I4:142:VAL:CG1	2.53	0.81
2:U4:40:ALA:HB2	2:U4:146:ALA:HB1	1.61	0.81
11:F8:201:CYC:CBC	3:G8:142:VAL:HG23	2.08	0.81
3:I8:40:ALA:HB2	3:I8:156:LEU:HD13	1.60	0.81
3:K8:67:ILE:HD12	2:L8:86:ARG:HH22	1.44	0.81
2:O8:86:ARG:NH1	11:O8:201:CYC:O2A	2.11	0.81
2:S8:149:GLU:C	2:S8:153:TYR:HD2	1.86	0.81
2:W8:19:LEU:HD21	3:X8:95:TYR:CD1	2.15	0.81
3:X8:138:ALA:O	3:X8:142:VAL:HG12	1.80	0.81
1:A2:199:ALA:O	7:N3:82:LEU:HD12	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M2:112:GLY:O	3:M2:116:THR:OG1	1.98	0.81
7:X3:68:PRO:O	7:J7:63:PRO:HG2	1.79	0.81
7:q3:52:LYS:HG3	1:A8:221:MET:SD	2.20	0.81
7:w3:25:ARG:NH1	7:S7:24:ASP:HB3	1.93	0.81
3:K4:82:CYS:HG	11:K4:201:CYC:HAC1	1.41	0.81
2:Q4:36:PHE:HD1	2:Q4:145:ASP:CB	1.93	0.81
3:K6:153:CYS:HB2	11:K6:202:CYC:CBC	2.08	0.81
11:C1:202:CYC:HAB2	2:D1:111:LEU:CD2	2.10	0.81
2:F1:111:LEU:CD2	11:F1:201:CYC:HAB2	2.10	0.81
2:J1:111:LEU:CD2	11:J1:201:CYC:HAB2	2.10	0.81
2:S1:111:LEU:CD2	11:S1:201:CYC:HAB2	2.10	0.81
3:V2:33:GLU:CB	3:V2:36:LYS:HE3	1.99	0.81
5:13:563:GLU:HB3	6:N7:30:LEU:CD2	2.11	0.81
7:I3:70:GLY:CA	7:C7:64:ASP:OD2	2.28	0.81
8:t3:62:TYR:O	1:A4:205:THR:CB	2.29	0.81
3:E4:127:VAL:HG22	11:E4:201:CYC:HBC3	1.62	0.81
3:K4:51:ILE:HD11	3:K4:141:ILE:HD12	1.63	0.81
2:L4:33:GLN:NE2	2:L4:149:GLU:OE2	2.12	0.81
11:L4:202:CYC:CBC	3:M4:142:VAL:CG2	2.58	0.81
2:O4:98:CYS:SG	2:O4:153:TYR:CE1	2.73	0.81
3:P4:127:VAL:HG22	11:P4:201:CYC:HBC3	1.62	0.81
3:T6:37:ARG:HA	3:T6:156:LEU:CD1	2.09	0.81
2:U6:87:ASP:OD1	11:U6:201:CYC:HBC3	1.81	0.81
2:B8:149:GLU:CG	2:H8:21:ASN:ND2	2.33	0.81
2:D8:24:LEU:HB2	11:E8:202:CYC:HBB1	0.83	0.81
3:I8:127:VAL:HG22	11:I8:201:CYC:HBC3	1.62	0.81
3:T8:143:MET:CE	3:T8:153:CYS:CB	2.51	0.81
2:W8:149:GLU:CG	2:W8:153:TYR:CE2	2.63	0.81
2:U1:111:LEU:CD2	11:U1:201:CYC:HAB2	2.10	0.81
3:T2:151:GLY:CA	11:T2:202:CYC:HMD3	1.80	0.81
5:03:443:TYR:HH	5:03:611:ILE:HG23	1.45	0.81
7:u3:70:GLY:CA	7:Q7:64:ASP:OD2	2.28	0.81
11:L4:202:CYC:CBC	3:M4:142:VAL:HG23	2.11	0.81
2:O4:98:CYS:SG	2:O4:153:TYR:CD1	2.73	0.81
2:H6:87:ASP:OD1	11:H6:201:CYC:HBC3	1.81	0.81
3:I8:139:VAL:C	3:I8:142:VAL:CG1	2.53	0.81
2:Y8:149:GLU:C	2:Y8:153:TYR:CD2	2.55	0.81
2:H1:111:LEU:CD2	11:H1:201:CYC:HAB2	2.10	0.81
2:S1:111:LEU:HD21	11:S1:201:CYC:CAB	2.11	0.81
3:V1:57:ARG:CZ	11:V1:202:CYC:O2D	2.29	0.81
2:B2:79:ARG:NH2	3:G2:57:ARG:NH2	2.25	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K2:68:ALA:HB2	3:T2:65:GLN:HE22	1.44	0.81
7:u3:76:GLU:HG3	1:A8:204:ARG:HH22	1.42	0.81
3:P4:51:ILE:CD1	3:P4:141:ILE:HD12	2.06	0.81
11:C5:202:CYC:HAB2	2:D5:111:LEU:CD2	2.10	0.81
11:C6:203:CYC:HBC3	2:D6:87:ASP:OD1	1.81	0.81
2:F6:87:ASP:OD1	11:F6:201:CYC:HBC3	1.81	0.81
2:F8:153:TYR:CZ	2:J8:21:ASN:ND2	2.48	0.81
2:H1:28:TYR:OH	11:I1:202:CYC:NB	2.12	0.81
2:J1:61:SER:CB	2:J8:61:SER:C	2.54	0.81
2:O1:111:LEU:CD2	11:O1:201:CYC:HAB2	2.10	0.81
11:V1:202:CYC:HAB2	2:W1:111:LEU:CD2	2.10	0.81
3:G2:151:GLY:HA3	11:G2:201:CYC:HMD3	1.57	0.81
11:K2:203:CYC:HBC3	2:L2:87:ASP:OD1	1.81	0.81
3:R2:36:LYS:HD3	3:R2:152:ASP:O	1.80	0.81
2:U2:87:ASP:OD1	11:Z2:201:CYC:HBC3	1.81	0.81
7:I3:113:ARG:HH11	7:C7:117:LYS:HZ2	0.86	0.81
2:F4:24:LEU:HD21	2:F4:28:TYR:CZ	2.15	0.81
2:F5:111:LEU:CD2	11:F5:201:CYC:HAB2	2.10	0.81
2:H5:111:LEU:HD21	11:H5:201:CYC:CAB	2.11	0.81
2:O5:111:LEU:CD2	11:O5:201:CYC:HAB2	2.10	0.81
2:S5:111:LEU:HD21	11:S5:201:CYC:CAB	2.11	0.81
11:X5:203:CYC:HAB2	2:Y5:111:LEU:CD2	2.10	0.81
11:X5:203:CYC:CAB	2:Y5:111:LEU:HD21	2.11	0.81
2:L6:87:ASP:OD1	11:L6:201:CYC:HBC3	1.81	0.81
1:A8:208:ARG:CZ	1:A8:211:GLN:HG2	2.11	0.81
2:O8:93:ARG:NH1	3:T8:74:TYR:OH	2.13	0.81
1:A1:203:PHE:HB3	7:q3:76:GLU:CB	2.10	0.81
2:F1:111:LEU:HD21	11:F1:201:CYC:CAB	2.11	0.81
2:O1:111:LEU:HD21	11:O1:201:CYC:CAB	2.11	0.81
11:X1:203:CYC:HAB2	2:Y1:111:LEU:CD2	2.10	0.81
2:H2:87:ASP:OD1	11:H2:201:CYC:HBC3	1.81	0.81
2:Q2:87:ASP:OD1	11:Q2:201:CYC:HBC3	1.81	0.81
3:Z2:155:SER:O	3:Z2:158:GLN:HB3	1.79	0.81
7:Z3:113:ARG:HD3	7:H7:117:LYS:NZ	1.96	0.81
7:Z3:117:LYS:HZ2	7:H7:113:ARG:HH12	0.84	0.81
2:B4:140:HIS:HE1	2:B4:142:LEU:HB2	1.45	0.81
2:H5:111:LEU:CD2	11:H5:201:CYC:HAB2	2.10	0.81
2:J6:87:ASP:OD1	11:J6:201:CYC:HBC3	1.81	0.81
2:F8:25:GLN:HG2	2:J8:33:GLN:HB2	1.63	0.81
2:S8:24:LEU:HD11	3:T8:42:SER:HB3	1.63	0.81
2:L1:24:LEU:HD13	11:M1:202:CYC:HBB2	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:87:ASP:OD1	11:B2:201:CYC:HBC3	1.81	0.81
7:d3:52:LYS:NZ	1:A6:201:ARG:HE	1.78	0.81
2:W4:150:THR:O	2:W4:154:ILE:N	2.14	0.81
11:C5:202:CYC:CAB	2:D5:111:LEU:HD21	2.11	0.81
2:L5:111:LEU:HD21	11:L5:201:CYC:CAB	2.11	0.81
2:Q5:111:LEU:HD21	11:Q5:201:CYC:CAB	2.11	0.81
2:O6:87:ASP:OD1	11:O6:201:CYC:HBC3	1.81	0.81
3:R6:151:GLY:HA3	11:R6:201:CYC:HMD3	1.61	0.81
11:A8:301:CYC:HBC3	3:C8:127:VAL:HG22	1.62	0.81
3:I8:138:ALA:O	3:I8:142:VAL:HG12	1.79	0.81
2:Q1:111:LEU:CD2	11:Q1:201:CYC:HAB2	2.10	0.81
3:M2:36:LYS:HD2	3:M2:152:ASP:O	1.81	0.81
7:u3:63:PRO:HD2	7:Q7:69:GLY:HA3	1.60	0.81
7:u3:76:GLU:HG2	1:A8:204:ARG:HH21	1.41	0.81
7:w3:75:GLU:OE1	1:A4:223:ARG:HG3	1.81	0.81
2:D4:19:LEU:HD12	2:D4:23:GLU:HG2	1.61	0.81
2:F4:153:TYR:CZ	2:J4:21:ASN:ND2	2.48	0.81
2:O4:21:ASN:CA	2:W4:152:ASN:ND2	2.37	0.81
2:B5:24:LEU:CD1	11:C5:201:CYC:CBB	2.59	0.81
2:Y6:87:ASP:OD1	11:Y6:201:CYC:HBC3	1.81	0.81
3:C8:51:ILE:HD11	3:C8:141:ILE:HD12	0.85	0.81
3:K8:51:ILE:HD11	3:K8:141:ILE:HD12	1.63	0.81
11:L8:202:CYC:CBC	3:M8:142:VAL:CG2	2.58	0.81
2:O8:22:THR:HG23	2:W8:103:GLY:HA2	1.62	0.81
3:X8:139:VAL:O	3:X8:142:VAL:CG1	2.29	0.81
3:C1:57:ARG:HH12	11:C1:202:CYC:CGD	1.94	0.81
7:q3:69:GLY:HA3	7:V7:63:PRO:HD2	1.61	0.81
1:A4:194:VAL:CG2	1:A4:196:TRP:CE2	2.61	0.81
11:N4:301:CYC:HBC3	3:R4:127:VAL:HG22	1.62	0.81
2:S4:140:HIS:CE1	2:S4:142:LEU:CG	2.64	0.81
3:V4:140:ALA:O	3:V4:144:ASP:OD2	1.99	0.81
2:W4:19:LEU:HD21	3:X4:95:TYR:CD1	2.15	0.81
3:Z4:139:VAL:HA	3:Z4:142:VAL:HG13	1.62	0.81
2:U5:111:LEU:HD21	11:U5:201:CYC:CAB	2.11	0.81
3:M6:112:GLY:O	3:M6:116:THR:OG1	1.98	0.81
11:L8:202:CYC:CBC	3:M8:142:VAL:HG23	2.11	0.81
3:M8:123:PRO:HB3	3:R8:65:GLN:HE22	1.46	0.81
11:N8:301:CYC:HBC3	3:R8:127:VAL:HG22	1.62	0.81
3:Z8:127:VAL:HG22	11:Z8:201:CYC:HBC3	1.62	0.81
7:o3:59:PHE:CZ	7:o3:78:THR:CG2	2.64	0.80
7:o3:60:GLN:CA	1:A5:226:GLN:NE2	2.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:43:ARG:HH22	3:C4:148:VAL:HG11	1.01	0.80
2:F4:24:LEU:HD11	11:F4:201:CYC:OB	1.73	0.80
2:S4:19:LEU:HD21	3:T4:95:TYR:HD1	1.43	0.80
3:X4:36:LYS:HB3	3:X4:156:LEU:HD12	1.58	0.80
3:P6:151:GLY:CA	11:P6:202:CYC:HMD1	2.10	0.80
3:Z6:57:ARG:HA	3:Z6:57:ARG:HE	1.46	0.80
3:E8:67:ILE:HD12	11:E8:203:CYC:H2A	1.46	0.80
2:O8:98:CYS:SG	2:O8:153:TYR:CD1	2.73	0.80
2:O8:98:CYS:SG	2:O8:153:TYR:CE1	2.73	0.80
2:S8:140:HIS:CE1	2:S8:142:LEU:CG	2.64	0.80
2:B1:111:LEU:CD2	11:B1:201:CYC:HAB2	2.10	0.80
5:03:523:VAL:C	7:C7:106:GLU:OE2	2.23	0.80
2:D4:24:LEU:HB2	11:E4:202:CYC:HBB1	0.83	0.80
3:M4:123:PRO:HB3	3:R4:65:GLN:HE22	1.46	0.80
3:C8:74:TYR:OH	2:D8:93:ARG:NH1	2.14	0.80
2:Q8:36:PHE:HD1	2:Q8:145:ASP:CB	1.93	0.80
2:S8:23:GLU:O	2:S8:26:TYR:HB2	1.81	0.80
11:C1:202:CYC:CAB	2:D1:111:LEU:HD21	2.11	0.80
2:W2:87:ASP:OD1	11:W2:201:CYC:HBC3	1.81	0.80
5:13:521:THR:CB	8:K7:10:ASN:ND2	2.44	0.80
7:K3:69:GLY:C	7:A7:64:ASP:OD2	2.23	0.80
2:S4:23:GLU:O	2:S4:26:TYR:HB2	1.81	0.80
11:H5:201:CYC:CGD	3:M5:57:ARG:HH22	1.94	0.80
2:O5:111:LEU:HD21	11:O5:201:CYC:CAB	2.11	0.80
11:C6:203:CYC:HAA1	2:D6:122:PHE:CE2	2.11	0.80
7:L7:81:CYS:SG	11:L7:1001:CYC:CAC	2.63	0.80
11:H1:201:CYC:CGD	3:M1:57:ARG:HH22	1.94	0.80
2:L1:111:LEU:CD2	11:L1:201:CYC:HAB2	2.10	0.80
2:D2:87:ASP:OD1	11:D2:201:CYC:HBC3	1.81	0.80
11:I2:203:CYC:HBC3	2:J2:87:ASP:OD1	1.81	0.80
5:03:561:ASN:ND2	11:B7:1001:CYC:HAA1	1.96	0.80
7:d3:52:LYS:NZ	1:A6:201:ARG:CG	2.43	0.80
7:w3:25:ARG:HH12	7:S7:24:ASP:CB	1.94	0.80
2:L4:149:GLU:HG2	2:L4:153:TYR:CD2	2.15	0.80
3:C5:57:ARG:HH12	11:C5:202:CYC:CGD	1.94	0.80
2:F5:111:LEU:HD21	11:F5:201:CYC:CAB	2.11	0.80
2:O6:122:PHE:CE2	11:O6:201:CYC:HAA1	2.11	0.80
7:V7:81:CYS:HG	11:V7:1001:CYC:HAC2	1.46	0.80
2:B8:19:LEU:HD21	3:C8:95:TYR:CE1	2.13	0.80
2:B8:140:HIS:HE1	2:B8:142:LEU:HB2	1.45	0.80
2:B8:149:GLU:OE1	2:B8:153:TYR:HE2	1.65	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F8:25:GLN:CG	2:J8:33:GLN:HB2	2.11	0.80
11:A1:301:CYC:CAC	3:C1:82:CYS:SG	2.64	0.80
11:X1:203:CYC:CAB	2:Y1:111:LEU:HD21	2.11	0.80
3:R2:151:GLY:HA3	11:R2:201:CYC:HMD3	1.61	0.80
2:S2:87:ASP:OD1	11:S2:201:CYC:HBC3	1.81	0.80
3:Z2:57:ARG:HA	3:Z2:57:ARG:HE	1.46	0.80
7:I3:117:LYS:HZ3	7:C7:113:ARG:CZ	1.94	0.80
3:V4:127:VAL:HG22	11:V4:201:CYC:HBC3	1.62	0.80
2:J5:111:LEU:HD21	11:J5:201:CYC:CAB	2.11	0.80
2:U5:111:LEU:CD2	11:U5:201:CYC:HAB2	2.10	0.80
11:P6:202:CYC:HMB2	2:W6:148:THR:OG1	1.82	0.80
3:Z8:144:ASP:OD1	3:Z8:145:PRO:HD2	1.80	0.80
2:B1:111:LEU:HD21	11:B1:201:CYC:CAB	2.11	0.80
2:Q1:111:LEU:HD21	11:Q1:201:CYC:CAB	2.11	0.80
2:B2:24:LEU:HB2	11:C2:202:CYC:HBB2	1.61	0.80
5:03:443:TYR:O	8:J3:118:SER:CB	2.29	0.80
3:C4:42:SER:C	3:C4:45:THR:CG2	2.54	0.80
2:F4:24:LEU:HD22	2:F4:28:TYR:CE1	1.89	0.80
3:K4:127:VAL:HG22	11:K4:201:CYC:HBC3	1.62	0.80
2:O4:33:GLN:CG	2:W4:25:GLN:NE2	2.40	0.80
3:X4:139:VAL:O	3:X4:142:VAL:CG1	2.29	0.80
3:Z4:127:VAL:HG22	11:Z4:201:CYC:HBC3	1.62	0.80
2:B5:24:LEU:CD1	11:C5:201:CYC:HBB2	2.12	0.80
11:V5:202:CYC:HAC2	2:W5:84:CYS:CB	2.12	0.80
2:Q6:87:ASP:OD1	11:Q6:201:CYC:HBC3	1.81	0.80
1:A8:203:PHE:H	1:A8:203:PHE:HD2	1.26	0.80
2:D8:140:HIS:CE1	2:D8:142:LEU:CB	2.64	0.80
3:E8:153:CYS:SG	11:E8:202:CYC:CBC	2.70	0.80
11:V8:202:CYC:HHA	11:V8:202:CYC:CBD	2.12	0.80
2:U1:111:LEU:HD21	11:U1:201:CYC:CAB	2.11	0.80
1:A4:214:ASP:OD1	1:A4:215:PRO:CD	2.30	0.80
11:L4:202:CYC:HHA	11:L4:202:CYC:CBD	2.12	0.80
2:S4:32:ARG:HA	2:S4:32:ARG:NE	1.94	0.80
3:T4:140:ALA:O	3:T4:144:ASP:OD2	2.00	0.80
11:C5:202:CYC:HAC2	2:D5:84:CYS:CB	2.12	0.80
2:B6:24:LEU:HB2	11:C6:202:CYC:HBB2	1.61	0.80
3:R6:36:LYS:HD3	3:R6:152:ASP:O	1.80	0.80
11:R6:202:CYC:HBC3	2:S6:87:ASP:OD1	1.81	0.80
11:C8:201:CYC:HHA	11:C8:201:CYC:CBD	2.12	0.80
2:D8:19:LEU:CD2	3:E8:95:TYR:CD1	2.58	0.80
2:L8:99:LEU:CD1	2:L8:149:GLU:OE1	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P8:36:LYS:O	3:P8:156:LEU:HD11	1.82	0.80
3:V8:127:VAL:HG22	11:V8:201:CYC:HBC3	1.62	0.80
3:V8:140:ALA:O	3:V8:144:ASP:OD2	1.99	0.80
3:X8:127:VAL:HG22	11:X8:201:CYC:HBC3	1.62	0.80
2:B1:24:LEU:CD1	11:C1:201:CYC:HBB2	2.12	0.80
2:L1:111:LEU:HD21	11:L1:201:CYC:CAB	2.11	0.80
11:K2:202:CYC:HHA	11:K2:202:CYC:CBD	2.12	0.80
11:R2:201:CYC:HHA	11:R2:201:CYC:CBD	2.12	0.80
5:03:230:GLN:OE1	10:V3:117:ASN:OD1	1.99	0.80
7:q3:68:PRO:O	7:V7:63:PRO:CG	2.28	0.80
8:v3:62:TYR:CE1	1:A5:203:PHE:HB2	2.17	0.80
2:B6:87:ASP:OD1	11:B6:201:CYC:HBC3	1.81	0.80
11:Z6:202:CYC:HHA	11:Z6:202:CYC:CBD	2.12	0.80
3:E8:127:VAL:HG22	11:E8:201:CYC:HBC3	1.62	0.80
3:I8:153:CYS:HB3	11:I8:202:CYC:HAC2	1.64	0.80
3:Z8:139:VAL:HA	3:Z8:142:VAL:HG13	1.62	0.80
11:V2:202:CYC:HHA	11:V2:202:CYC:CBD	2.12	0.80
5:13:557:ILE:HD11	8:I7:83:ARG:NE	1.97	0.80
7:u3:64:ASP:O	7:Q7:64:ASP:OD1	2.00	0.80
7:u3:117:LYS:CE	7:Q7:113:ARG:NH1	2.36	0.80
3:C4:42:SER:HA	3:C4:45:THR:HG21	1.63	0.80
11:E4:202:CYC:HHA	11:E4:202:CYC:CBD	2.12	0.80
11:I4:202:CYC:HHA	11:I4:202:CYC:CBD	2.12	0.80
2:S4:150:THR:CG2	2:S4:154:ILE:HD11	2.12	0.80
2:L5:24:LEU:HD13	11:M5:202:CYC:HBB2	1.63	0.80
11:G6:201:CYC:HHA	11:G6:201:CYC:CBD	2.12	0.80
3:K6:39:ASP:OD2	11:K6:202:CYC:C1D	2.29	0.80
11:T6:201:CYC:HHA	11:T6:201:CYC:CBD	2.12	0.80
3:T8:82:CYS:HG	11:T8:201:CYC:HAC1	1.40	0.80
3:T8:139:VAL:HA	3:T8:142:VAL:HG13	1.63	0.80
3:Z8:139:VAL:C	3:Z8:142:VAL:HG13	2.06	0.80
1:A1:223:ARG:NE	7:u3:75:GLU:OE1	2.15	0.80
7:q3:113:ARG:NH1	7:V7:117:LYS:CD	2.44	0.80
3:I4:127:VAL:HG22	11:I4:201:CYC:HBC3	1.62	0.80
3:T4:51:ILE:CD1	3:T4:141:ILE:HD11	2.09	0.80
3:T4:127:VAL:HG22	11:T4:201:CYC:HBC3	1.62	0.80
2:Y4:136:ILE:O	2:Y4:140:HIS:CD2	2.33	0.80
11:X5:203:CYC:HAC2	2:Y5:84:CYS:CB	2.12	0.80
2:W6:87:ASP:OD1	11:W6:201:CYC:HBC3	1.81	0.80
3:P8:127:VAL:HG22	11:P8:201:CYC:HBC3	1.62	0.80
11:C2:202:CYC:HHA	11:C2:202:CYC:CBD	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E2:203:CYC:HBC3	2:F2:87:ASP:OD1	1.81	0.79
3:V2:33:GLU:CB	3:V2:36:LYS:HE2	2.00	0.79
2:D4:149:GLU:O	2:D4:153:TYR:CD2	2.35	0.79
11:Z4:202:CYC:HHA	11:Z4:202:CYC:CBD	2.12	0.79
2:B5:111:LEU:HD21	11:B5:201:CYC:CAB	2.11	0.79
11:V5:202:CYC:CAB	2:W5:111:LEU:HD21	2.11	0.79
2:B6:24:LEU:HB2	11:C6:202:CYC:CBB	2.12	0.79
2:J6:122:PHE:CE2	11:J6:201:CYC:HAA1	2.11	0.79
11:K6:202:CYC:HHA	11:K6:202:CYC:CBD	2.12	0.79
3:K8:67:ILE:CD1	11:L8:201:CYC:H2A	1.95	0.79
3:P8:142:VAL:O	11:P8:202:CYC:HBC3	1.82	0.79
2:S8:86:ARG:HH12	11:S8:201:CYC:HBA1	1.46	0.79
2:B1:24:LEU:CD1	11:C1:201:CYC:CBB	2.59	0.79
2:H2:72:ASN:ND2	3:M2:57:ARG:CZ	2.38	0.79
3:X2:57:ARG:HA	3:X2:57:ARG:HE	1.47	0.79
11:X2:202:CYC:HHA	11:X2:202:CYC:CBD	2.12	0.79
7:X3:69:GLY:HA3	7:J7:63:PRO:HD2	1.64	0.79
2:B4:61:SER:HB3	2:J5:141:GLY:HA3	1.60	0.79
3:C4:74:TYR:OH	2:D4:93:ARG:NH1	2.14	0.79
3:T4:139:VAL:HA	3:T4:142:VAL:HG13	1.63	0.79
2:W4:149:GLU:CG	2:W4:153:TYR:CE2	2.63	0.79
3:X4:153:CYS:SG	11:X4:202:CYC:HBC1	2.20	0.79
2:H5:84:CYS:CB	11:H5:201:CYC:HAC2	2.12	0.79
2:H6:84:CYS:SG	11:H6:201:CYC:HAC1	2.20	0.79
2:Q6:84:CYS:SG	11:Q6:201:CYC:HAC1	2.20	0.79
3:M8:127:VAL:HG22	11:M8:202:CYC:HBC3	1.62	0.79
11:T8:202:CYC:HHA	11:T8:202:CYC:CBD	2.12	0.79
2:J1:111:LEU:HD21	11:J1:201:CYC:CAB	2.11	0.79
11:E2:203:CYC:HAC1	2:F2:84:CYS:SG	2.20	0.79
5:03:523:VAL:HA	7:C7:106:GLU:CD	2.08	0.79
3:I4:153:CYS:HB3	11:I4:202:CYC:HAC2	1.64	0.79
2:S4:24:LEU:HD11	3:T4:42:SER:HB3	1.63	0.79
11:C6:202:CYC:HHA	11:C6:202:CYC:CBD	2.12	0.79
2:F8:24:LEU:CD1	3:G8:39:ASP:HB2	2.11	0.79
1:A1:203:PHE:CD2	1:A8:215:PRO:CG	2.65	0.79
11:C1:202:CYC:HAC2	2:D1:84:CYS:CB	2.12	0.79
2:J1:84:CYS:CB	11:J1:201:CYC:HAC2	2.12	0.79
3:R1:82:CYS:SG	11:R1:201:CYC:C4C	2.71	0.79
11:M2:202:CYC:HHA	11:M2:202:CYC:CBD	2.12	0.79
2:O2:87:ASP:OD1	11:T2:201:CYC:HBC3	1.81	0.79
11:X2:203:CYC:HBC3	2:Y2:87:ASP:OD1	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:720:ASP:HB3	8:Y7:107:ARG:NE	1.97	0.79
5:13:832:ASN:ND2	6:b7:38:ARG:HH21	1.79	0.79
2:O4:86:ARG:NH2	11:O4:201:CYC:O2A	2.03	0.79
3:Z4:139:VAL:C	3:Z4:142:VAL:HG13	2.06	0.79
3:C6:57:ARG:NH2	11:C6:203:CYC:O1A	2.14	0.79
7:Z7:71:ASN:HD22	11:Z7:1001:CYC:HC	1.30	0.79
2:S8:150:THR:CG2	2:S8:154:ILE:HD11	2.12	0.79
2:H1:84:CYS:CB	11:H1:201:CYC:HAC2	2.12	0.79
2:H1:111:LEU:HD21	11:H1:201:CYC:CAB	2.11	0.79
2:O1:84:CYS:CB	11:O1:201:CYC:HAC2	2.12	0.79
5:13:588:TYR:HB2	8:Y3:110:ASN:HD22	1.47	0.79
7:q3:3:ILE:HD11	7:q3:25:ARG:HH22	1.44	0.79
7:w3:76:GLU:OE1	1:A5:202:ARG:HA	1.83	0.79
2:B4:150:THR:CG2	2:B4:154:ILE:HD11	2.13	0.79
3:E4:153:CYS:SG	11:E4:202:CYC:CBC	2.70	0.79
3:G4:127:VAL:HG22	11:G4:202:CYC:HBC3	1.62	0.79
3:Z4:145:PRO:HB3	11:Z4:202:CYC:CBB	2.12	0.79
1:A5:209:VAL:CB	1:A5:210:PRO:CD	2.30	0.79
11:A5:302:CYC:C4C	3:E5:82:CYS:SG	2.71	0.79
3:V5:57:ARG:CZ	11:V5:202:CYC:O2D	2.29	0.79
3:T6:151:GLY:CA	11:T6:201:CYC:HMD3	1.80	0.79
2:W8:150:THR:O	2:W8:154:ILE:N	2.14	0.79
3:G1:82:CYS:SG	11:G1:201:CYC:C4C	2.71	0.79
2:J1:54:GLY:HA3	2:J8:68:SER:CB	2.11	0.79
3:K1:82:CYS:SG	11:K1:201:CYC:C4C	2.71	0.79
2:S1:84:CYS:CB	11:S1:201:CYC:HAC2	2.12	0.79
3:Z1:82:CYS:SG	11:Z1:201:CYC:CAC	2.64	0.79
11:I2:202:CYC:HHA	11:I2:202:CYC:CBD	2.12	0.79
3:P2:106:ASN:HA	3:P2:110:LEU:HD12	1.64	0.79
7:u3:3:ILE:CD1	7:O7:25:ARG:CZ	2.60	0.79
11:V4:202:CYC:HHA	11:V4:202:CYC:CBD	2.12	0.79
11:Z4:202:CYC:HMA2	11:Z4:202:CYC:CGA	2.13	0.79
2:B5:84:CYS:CB	11:B5:201:CYC:HAC2	2.12	0.79
3:G5:82:CYS:SG	11:G5:201:CYC:C4C	2.71	0.79
3:C6:36:LYS:CE	11:C6:202:CYC:O1D	2.31	0.79
3:M6:36:LYS:HD2	3:M6:152:ASP:O	1.81	0.79
3:R6:37:ARG:O	3:R6:41:VAL:HG23	1.83	0.79
2:B8:150:THR:HG22	2:B8:154:ILE:CD1	2.13	0.79
3:C8:139:VAL:CA	3:C8:142:VAL:HG12	2.11	0.79
2:F8:152:ASN:HD21	2:J8:21:ASN:HA	1.47	0.79
11:I8:202:CYC:HHA	11:I8:202:CYC:CBD	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S8:19:LEU:CD2	3:T8:95:TYR:CE1	2.66	0.79
3:Z8:145:PRO:HB3	11:Z8:202:CYC:CBB	2.12	0.79
2:U1:84:CYS:CB	11:U1:201:CYC:HAC2	2.12	0.79
3:V1:82:CYS:SG	11:V1:201:CYC:CAC	2.64	0.79
2:B2:122:PHE:CE2	11:B2:201:CYC:HAA1	2.11	0.79
11:C2:202:CYC:HMA2	11:C2:202:CYC:CGA	2.13	0.79
3:P2:33:GLU:HA	3:P2:36:LYS:HG2	1.44	0.79
3:P2:33:GLU:CB	3:P2:36:LYS:HG3	2.11	0.79
11:P2:202:CYC:HMA2	11:P2:202:CYC:CGA	2.13	0.79
11:P2:202:CYC:HMB2	2:W2:148:THR:OG1	1.82	0.79
11:T2:202:CYC:HHA	11:T2:202:CYC:CBD	2.12	0.79
2:B4:111:LEU:HD21	11:G4:201:CYC:CAB	2.13	0.79
11:C4:201:CYC:HHA	11:C4:201:CYC:CBD	2.12	0.79
2:D4:19:LEU:CD2	3:E4:95:TYR:CD1	2.58	0.79
4:N4:47:TYR:HD2	11:T4:201:CYC:O2A	1.65	0.79
3:P4:36:LYS:O	3:P4:156:LEU:HD11	1.82	0.79
2:S4:19:LEU:CD2	3:T4:95:TYR:CE1	2.66	0.79
3:K5:82:CYS:SG	11:K5:201:CYC:C4C	2.71	0.79
11:E6:202:CYC:HHA	11:E6:202:CYC:CBD	2.12	0.79
11:O7:1001:CYC:CGA	8:T7:66:THR:HG22	2.12	0.79
7:V7:81:CYS:SG	11:V7:1001:CYC:CAC	2.63	0.79
11:F8:201:CYC:HHA	11:F8:201:CYC:CBD	2.12	0.79
11:P8:202:CYC:CGA	11:P8:202:CYC:HMA2	2.13	0.79
3:Z1:82:CYS:SG	11:Z1:201:CYC:C4C	2.71	0.79
11:E2:202:CYC:HMA2	11:E2:202:CYC:CGA	2.13	0.79
11:T2:202:CYC:HMA2	11:T2:202:CYC:CGA	2.13	0.79
11:Z2:203:CYC:HHA	11:Z2:203:CYC:CBD	2.12	0.79
5:13:557:ILE:CD1	8:I7:83:ARG:CZ	2.60	0.79
2:Y4:36:PHE:CE2	2:Y4:145:ASP:HB3	2.18	0.79
2:H5:122:PHE:CE2	11:H5:201:CYC:CAA	2.54	0.79
11:R6:201:CYC:CGA	11:R6:201:CYC:HMA2	2.13	0.79
7:Z7:81:CYS:SG	11:Z7:1001:CYC:CAC	2.63	0.79
3:K8:127:VAL:HG22	11:K8:201:CYC:HBC3	1.62	0.79
11:X8:202:CYC:HHA	11:X8:202:CYC:CBD	2.12	0.79
11:V1:202:CYC:CAB	2:W1:111:LEU:HD21	2.11	0.79
3:X1:82:CYS:SG	11:X1:201:CYC:C4C	2.71	0.79
11:X1:203:CYC:HAC2	2:Y1:84:CYS:CB	2.12	0.79
3:K2:39:ASP:OD2	11:K2:202:CYC:C1D	2.29	0.79
2:Q2:24:LEU:HD13	11:R2:201:CYC:CBB	2.13	0.79
11:X2:202:CYC:HMA2	11:X2:202:CYC:CGA	2.13	0.79
3:C4:139:VAL:HA	3:C4:142:VAL:HG13	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K4:202:CYC:HHA	11:K4:202:CYC:CBD	2.12	0.79
2:S4:111:LEU:HD21	11:S4:201:CYC:CAB	2.13	0.79
2:U4:140:HIS:CE1	2:U4:142:LEU:HB2	2.18	0.79
2:W4:17:ARG:NH1	2:W4:17:ARG:HB3	1.98	0.79
3:V5:82:CYS:SG	11:V5:201:CYC:C4C	2.71	0.79
3:X5:82:CYS:SG	11:X5:201:CYC:C4C	2.71	0.79
11:M6:202:CYC:CGA	11:M6:202:CYC:HMA2	2.13	0.79
4:N6:2:PRO:HD3	4:N6:154:VAL:HA	1.64	0.79
11:Z6:202:CYC:HMA2	11:Z6:202:CYC:CGA	2.13	0.79
7:A7:81:CYS:SG	11:A7:1001:CYC:CAC	2.63	0.79
11:F8:201:CYC:CGA	11:F8:201:CYC:HMA2	2.13	0.79
11:F8:201:CYC:HMA2	2:J8:145:ASP:OD2	1.83	0.79
3:G8:127:VAL:HG22	11:G8:202:CYC:HBC3	1.62	0.79
11:I8:202:CYC:HMA2	11:I8:202:CYC:CGA	2.13	0.79
11:I8:203:CYC:CAB	2:J8:111:LEU:HD21	2.13	0.79
11:R8:201:CYC:CGA	11:R8:201:CYC:HMA2	2.13	0.79
11:T8:202:CYC:CGA	11:T8:202:CYC:HMA2	2.13	0.79
3:P1:82:CYS:SG	11:P1:201:CYC:C4C	2.71	0.79
11:E2:202:CYC:HHA	11:E2:202:CYC:CBD	2.12	0.79
11:G2:201:CYC:CGA	11:G2:201:CYC:HMA2	2.13	0.79
11:P2:202:CYC:HHA	11:P2:202:CYC:CBD	2.12	0.79
2:U2:122:PHE:CE2	11:Z2:201:CYC:HAA1	2.11	0.79
11:V2:202:CYC:CGA	11:V2:202:CYC:HMA2	2.13	0.79
7:I3:3:ILE:HD11	7:A7:25:ARG:NH2	1.97	0.79
7:I3:3:ILE:CD1	7:A7:25:ARG:NH2	2.45	0.79
8:t3:62:TYR:CE2	1:A4:203:PHE:HA	2.17	0.79
11:F4:201:CYC:HMA2	11:F4:201:CYC:CGA	2.13	0.79
3:P4:142:VAL:O	11:P4:202:CYC:HBC3	1.82	0.79
11:V6:202:CYC:HHA	11:V6:202:CYC:CBD	2.12	0.79
2:W6:122:PHE:CE2	11:W6:201:CYC:HAA1	2.11	0.79
7:A7:71:ASN:HD22	11:A7:1001:CYC:HC	1.30	0.79
11:N8:301:CYC:CAC	3:R8:82:CYS:HG	1.69	0.79
2:O8:21:ASN:CA	2:W8:152:ASN:ND2	2.37	0.79
3:T8:140:ALA:O	3:T8:144:ASP:OD2	2.00	0.79
2:U8:140:HIS:CE1	2:U8:142:LEU:HB2	2.18	0.79
11:V8:202:CYC:HMA2	11:V8:202:CYC:CGA	2.13	0.79
2:Q1:84:CYS:CB	11:Q1:201:CYC:HAC2	2.12	0.78
3:V1:82:CYS:SG	11:V1:201:CYC:C4C	2.71	0.78
2:B2:24:LEU:HB2	11:C2:202:CYC:CBB	2.12	0.78
11:G2:201:CYC:HHA	11:G2:201:CYC:CBD	2.12	0.78
11:Z2:203:CYC:HMA2	11:Z2:203:CYC:CGA	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:03:720:ASP:CB	8:R7:107:ARG:HH21	1.95	0.78
2:D4:140:HIS:CE1	2:D4:142:LEU:CB	2.64	0.78
11:E4:203:CYC:CAB	2:F4:111:LEU:HD21	2.13	0.78
3:I4:144:ASP:OD1	3:I4:145:PRO:HD2	1.84	0.78
3:K4:139:VAL:C	3:K4:142:VAL:CG1	2.54	0.78
11:R4:201:CYC:HHA	11:R4:201:CYC:CBD	2.12	0.78
11:R4:201:CYC:CGA	11:R4:201:CYC:HMA2	2.13	0.78
2:S4:149:GLU:O	2:S4:153:TYR:HD2	1.66	0.78
2:Y4:18:PHE:HD2	3:Z4:45:THR:HG1	1.24	0.78
2:Y4:149:GLU:HB3	2:Y4:153:TYR:CE2	2.18	0.78
11:A5:301:CYC:C4C	3:C5:82:CYS:SG	2.71	0.78
3:M5:82:CYS:SG	11:M5:201:CYC:C4C	2.71	0.78
11:I6:202:CYC:HHA	11:I6:202:CYC:CBD	2.12	0.78
2:Q6:24:LEU:HD13	11:R6:201:CYC:CBB	2.13	0.78
11:X6:202:CYC:HHA	11:X6:202:CYC:CBD	2.12	0.78
2:Y6:122:PHE:CE2	11:Y6:201:CYC:HAA1	2.11	0.78
11:E8:202:CYC:HHA	11:E8:202:CYC:CBD	2.12	0.78
11:L8:202:CYC:HHA	11:L8:202:CYC:CBD	2.12	0.78
11:L8:202:CYC:CGA	11:L8:202:CYC:HMA2	2.13	0.78
3:M1:82:CYS:SG	11:M1:201:CYC:C4C	2.71	0.78
7:o3:76:GLU:HG2	1:A4:204:ARG:NH2	1.98	0.78
7:u3:151:ALA:CB	7:O7:20:PRO:HB2	2.09	0.78
11:P4:202:CYC:HMA2	11:P4:202:CYC:CGA	2.13	0.78
11:T4:202:CYC:HHA	11:T4:202:CYC:CBD	2.12	0.78
2:F5:84:CYS:CB	11:F5:201:CYC:HAC2	2.12	0.78
11:K6:202:CYC:HMA2	11:K6:202:CYC:CGA	2.13	0.78
7:Q7:81:CYS:SG	11:Q7:1001:CYC:CAC	2.63	0.78
3:T8:51:ILE:CD1	3:T8:141:ILE:HD11	2.09	0.78
3:R2:37:ARG:HA	3:R2:156:LEU:CD1	2.13	0.78
2:B4:150:THR:HG22	2:B4:154:ILE:CD1	2.13	0.78
3:K4:67:ILE:HD12	11:L4:201:CYC:H2A	1.48	0.78
11:P4:202:CYC:HHA	11:P4:202:CYC:CBD	2.12	0.78
3:X4:67:ILE:HD12	11:Y4:201:CYC:O2A	1.84	0.78
11:A5:302:CYC:CAC	3:E5:82:CYS:SG	2.64	0.78
2:W5:28:TYR:OH	11:X5:202:CYC:NB	2.16	0.78
11:M6:202:CYC:HHA	11:M6:202:CYC:CBD	2.12	0.78
11:T6:201:CYC:HMA2	11:T6:201:CYC:CGA	2.13	0.78
8:F7:81:CYS:HG	11:F7:1001:CYC:CAC	1.93	0.78
7:H7:81:CYS:SG	11:H7:1001:CYC:CAC	2.63	0.78
2:O8:33:GLN:CG	2:W8:25:GLN:NE2	2.39	0.78
2:S8:24:LEU:HD12	2:Y8:152:ASN:ND2	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U8:111:LEU:HD21	11:U8:201:CYC:CAB	2.13	0.78
11:X8:202:CYC:CGA	11:X8:202:CYC:HMA2	2.13	0.78
11:Z8:202:CYC:HMA2	11:Z8:202:CYC:CGA	2.13	0.78
11:A1:302:CYC:C4C	3:E1:82:CYS:SG	2.71	0.78
3:R2:37:ARG:O	3:R2:41:VAL:HG23	1.83	0.78
3:T2:153:CYS:SG	3:T2:156:LEU:HD12	2.23	0.78
7:X3:151:ALA:HB1	7:H7:20:PRO:HB3	1.66	0.78
7:w3:25:ARG:HD3	7:w3:25:ARG:O	1.83	0.78
11:C4:201:CYC:CGA	11:C4:201:CYC:HMA2	2.13	0.78
11:I4:202:CYC:CGA	11:I4:202:CYC:HMA2	2.13	0.78
11:X4:202:CYC:HHA	11:X4:202:CYC:CBD	2.12	0.78
2:Y4:19:LEU:H	2:Y4:19:LEU:HD22	1.48	0.78
3:R5:82:CYS:SG	11:R5:201:CYC:C4C	2.71	0.78
3:G6:151:GLY:HA3	11:G6:201:CYC:HMD3	1.57	0.78
4:N6:206:GLY:H	3:T6:111:ASN:HA	1.48	0.78
11:P6:202:CYC:CGA	11:P6:202:CYC:HMA2	2.13	0.78
7:J7:81:CYS:SG	11:J7:1001:CYC:CAC	2.63	0.78
11:E8:202:CYC:HMA2	11:E8:202:CYC:CGA	2.13	0.78
3:G8:40:ALA:HB2	3:G8:156:LEU:HD13	1.65	0.78
3:R1:82:CYS:SG	11:R1:201:CYC:CAC	2.64	0.78
11:M2:202:CYC:CGA	11:M2:202:CYC:HMA2	2.13	0.78
3:T2:57:ARG:HA	3:T2:57:ARG:NE	1.97	0.78
5:13:768:GLU:OE2	6:b7:29:LYS:HD2	1.84	0.78
7:I3:113:ARG:CZ	7:C7:117:LYS:NZ	2.46	0.78
8:z3:62:TYR:CD1	1:A8:203:PHE:HB2	2.10	0.78
3:M4:67:ILE:HD12	11:M4:201:CYC:H2A	1.46	0.78
2:S4:24:LEU:HD12	2:Y4:152:ASN:ND2	1.98	0.78
11:V4:202:CYC:HMA2	11:V4:202:CYC:CGA	2.13	0.78
3:I5:82:CYS:SG	11:I5:201:CYC:C4C	2.71	0.78
3:Z5:82:CYS:SG	11:Z5:201:CYC:C4C	2.71	0.78
11:E6:202:CYC:CGA	11:E6:202:CYC:HMA2	2.13	0.78
3:K6:151:GLY:CA	11:K6:202:CYC:CMD	2.62	0.78
7:L7:71:ASN:HD22	11:L7:1001:CYC:HC	1.30	0.78
2:H8:98:CYS:HG	2:H8:153:TYR:HE1	0.84	0.78
3:I8:144:ASP:OD1	3:I8:145:PRO:HD2	1.84	0.78
11:P8:202:CYC:HHA	11:P8:202:CYC:CBD	2.12	0.78
3:X8:37:ARG:HH22	3:X8:159:GLU:CD	1.91	0.78
11:A1:301:CYC:C4C	3:C1:82:CYS:SG	2.71	0.78
4:N1:114:ILE:HD12	3:P1:77:ARG:HH21	1.49	0.78
2:W1:28:TYR:OH	11:X1:202:CYC:NB	2.16	0.78
3:C2:155:SER:O	3:C2:158:GLN:HB3	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:557:ILE:HD11	8:I7:83:ARG:CD	2.14	0.78
7:o3:77:MET:HE1	1:A4:201:ARG:HB3	1.66	0.78
7:u3:69:GLY:N	1:A8:196:TRP:CZ2	2.52	0.78
1:A4:203:PHE:HD1	1:A5:215:PRO:HG2	1.48	0.78
3:G4:51:ILE:HD11	3:G4:141:ILE:HD12	1.66	0.78
3:X5:79:MET:HG2	11:X5:203:CYC:HMA1	1.66	0.78
11:I6:202:CYC:CGA	11:I6:202:CYC:HMA2	2.13	0.78
11:P6:202:CYC:HHA	11:P6:202:CYC:CBD	2.12	0.78
3:Z6:57:ARG:HA	3:Z6:57:ARG:NE	1.98	0.78
7:C7:81:CYS:SG	11:C7:1001:CYC:CAC	2.63	0.78
7:E7:71:ASN:HD22	11:E7:1001:CYC:HC	1.30	0.78
8:I7:91:TYR:CE2	11:I7:1001:CYC:HBB1	2.19	0.78
8:W7:91:TYR:CE2	11:W7:1001:CYC:HBB1	2.19	0.78
2:D8:149:GLU:O	2:D8:153:TYR:CD2	2.37	0.78
3:T8:127:VAL:HG22	11:T8:201:CYC:HBC3	1.62	0.78
3:V8:67:ILE:HD12	11:W8:201:CYC:H2A	1.48	0.78
8:c3:67:ARG:HH21	1:A6:214:ASP:CG	1.90	0.78
7:w3:77:MET:HE3	1:A5:201:ARG:HD2	1.65	0.78
1:A4:208:ARG:HH12	1:A4:211:GLN:HB2	1.48	0.78
11:F4:201:CYC:HHA	11:F4:201:CYC:CBD	2.12	0.78
2:J5:84:CYS:CB	11:J5:201:CYC:HAC2	2.12	0.78
11:N5:301:CYC:C4C	3:T5:82:CYS:SG	2.71	0.78
2:U5:84:CYS:CB	11:U5:201:CYC:HAC2	2.12	0.78
2:B6:122:PHE:CE2	11:B6:201:CYC:HAA1	2.11	0.78
11:C6:202:CYC:HMA2	11:C6:202:CYC:CGA	2.13	0.78
11:X6:202:CYC:CGA	11:X6:202:CYC:HMA2	2.13	0.78
2:D8:86:ARG:HH22	11:D8:201:CYC:H2A	0.80	0.78
3:I8:51:ILE:CD1	3:I8:141:ILE:HD12	2.09	0.78
2:S8:22:THR:CG2	2:Y8:4:PRO:HD3	2.14	0.78
3:I1:82:CYS:SG	11:I1:201:CYC:C4C	2.71	0.78
2:J1:58:ALA:CA	2:J8:64:PRO:CB	2.61	0.78
7:w3:51:ILE:HD13	1:A4:218:PHE:CZ	2.19	0.78
11:F4:201:CYC:HMA2	2:J4:145:ASP:OD2	1.83	0.78
2:S4:86:ARG:HH12	11:S4:201:CYC:HBA1	1.46	0.78
2:S4:150:THR:CG2	2:S4:154:ILE:CD1	2.62	0.78
3:X4:127:VAL:HG22	11:X4:201:CYC:HBC3	1.62	0.78
11:X4:202:CYC:CGA	11:X4:202:CYC:HMA2	2.13	0.78
3:P5:82:CYS:SG	11:P5:201:CYC:C4C	2.71	0.78
3:T6:153:CYS:SG	3:T6:156:LEU:HD12	2.23	0.78
8:P7:91:TYR:CE2	11:P7:1001:CYC:HBB1	2.19	0.78
4:N8:47:TYR:HD2	11:T8:201:CYC:O2A	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:221:MET:HE3	7:I3:52:LYS:HG3	1.64	0.78
5:03:524:SER:O	7:C7:106:GLU:OE2	2.02	0.78
5:13:440:GLN:HG2	5:13:445:SER:HB2	1.65	0.78
7:X3:6:LYS:HZ3	7:H7:10:ASN:ND2	1.81	0.78
2:D4:19:LEU:HD22	3:E4:95:TYR:HE1	1.49	0.78
2:S4:6:THR:OG1	3:T4:1:MET:SD	2.42	0.78
3:G5:86:MET:CE	11:G5:201:CYC:HBC1	2.14	0.78
8:D7:91:TYR:CE2	11:D7:1001:CYC:HBB1	2.19	0.78
7:E7:81:CYS:SG	11:E7:1001:CYC:CAC	2.63	0.78
8:K7:91:TYR:CE2	11:K7:1001:CYC:HBB1	2.19	0.78
8:M7:91:TYR:CE2	11:M7:1001:CYC:HBB1	2.19	0.78
7:O7:81:CYS:SG	11:O7:1001:CYC:CAC	2.63	0.78
8:T7:91:TYR:CE2	11:T7:1001:CYC:HBB1	2.19	0.78
2:S8:149:GLU:HG2	2:S8:153:TYR:CD2	2.19	0.78
2:U8:19:LEU:CD2	3:V8:95:TYR:HE1	1.95	0.78
11:R2:201:CYC:HMA2	11:R2:201:CYC:CGA	2.13	0.78
7:q3:82:LEU:CB	1:A8:218:PHE:HD1	1.97	0.78
3:M4:127:VAL:HG22	11:M4:202:CYC:HBC3	1.62	0.78
11:A5:302:CYC:HBC1	3:E5:86:MET:CE	2.14	0.78
2:L5:84:CYS:CB	11:L5:201:CYC:HAC2	2.12	0.78
3:G6:151:GLY:HA3	11:G6:201:CYC:HMD1	1.57	0.78
2:B8:150:THR:CG2	2:B8:154:ILE:HD11	2.13	0.78
3:C8:42:SER:O	3:C8:45:THR:HG22	1.78	0.78
3:G8:51:ILE:HD11	3:G8:141:ILE:HD12	1.66	0.78
11:K8:202:CYC:HHA	11:K8:202:CYC:CBD	2.12	0.78
11:R8:201:CYC:HHA	11:R8:201:CYC:CBD	2.12	0.78
2:W8:149:GLU:HG2	2:W8:153:TYR:CD2	2.19	0.78
2:F1:24:LEU:HD13	11:G1:202:CYC:CBB	2.14	0.77
2:F1:84:CYS:CB	11:F1:201:CYC:HAC2	2.12	0.77
11:N1:301:CYC:C4C	3:T1:82:CYS:SG	2.71	0.77
3:K2:57:ARG:HH22	11:K2:203:CYC:CGD	1.96	0.77
3:K2:151:GLY:CA	11:K2:202:CYC:CMD	2.62	0.77
4:N2:206:GLY:H	3:T2:111:ASN:HA	1.48	0.77
5:03:725:VAL:CG1	7:Q7:105:GLU:OE2	2.32	0.77
5:13:720:ASP:OD1	5:13:720:ASP:N	2.17	0.77
7:u3:113:ARG:CZ	7:Q7:117:LYS:HG3	2.13	0.77
11:K4:202:CYC:HMA2	11:K4:202:CYC:CGA	2.13	0.77
11:T4:202:CYC:HMA2	11:T4:202:CYC:CGA	2.13	0.77
4:N5:114:ILE:HD12	3:P5:77:ARG:HH21	1.49	0.77
8:F7:91:TYR:CE2	11:F7:1001:CYC:HBB1	2.19	0.77
11:V7:1001:CYC:CGA	8:a7:66:THR:HG22	2.12	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Y7:91:TYR:CE2	11:Y7:1001:CYC:HBB1	2.19	0.77
3:G8:82:CYS:HG	11:G8:202:CYC:CAC	1.72	0.77
2:O8:153:TYR:CD1	2:W8:21:ASN:ND2	2.46	0.77
3:P8:151:GLY:CA	11:P8:202:CYC:CMD	2.62	0.77
11:A1:302:CYC:CAC	3:E1:82:CYS:SG	2.64	0.77
3:P1:86:MET:CE	11:P1:201:CYC:HBC1	2.14	0.77
3:X1:86:MET:CE	11:X1:201:CYC:HBC1	2.14	0.77
3:E2:151:GLY:HA3	11:E2:202:CYC:HMD1	1.66	0.77
11:K2:202:CYC:HMA2	11:K2:202:CYC:CGA	2.13	0.77
5:13:577:ASP:OD2	7:H7:14:GLU:HG2	1.84	0.77
7:q3:51:ILE:HD13	1:A8:218:PHE:HZ	1.47	0.77
2:D4:149:GLU:O	2:D4:153:TYR:HD2	1.66	0.77
3:P4:153:CYS:SG	11:P4:202:CYC:HBC2	2.24	0.77
2:S4:24:LEU:CD1	2:Y4:152:ASN:HD21	1.96	0.77
2:Y4:137:LYS:HA	2:Y4:140:HIS:NE2	1.98	0.77
3:P5:82:CYS:SG	11:P5:201:CYC:CAC	2.64	0.77
11:R6:201:CYC:HHA	11:R6:201:CYC:CBD	2.12	0.77
3:K8:139:VAL:C	3:K8:142:VAL:CG1	2.54	0.77
3:I1:86:MET:CE	11:I1:201:CYC:HBC1	2.14	0.77
11:N1:301:CYC:HBC1	3:T1:86:MET:CE	2.14	0.77
3:R1:86:MET:CE	11:R1:201:CYC:HBC1	2.14	0.77
3:K2:57:ARG:NH2	11:K2:203:CYC:CGD	2.48	0.77
7:d3:82:LEU:HD11	1:A6:200:VAL:HA	1.67	0.77
2:B5:28:TYR:OH	11:C5:201:CYC:NB	2.16	0.77
3:K5:86:MET:CE	11:K5:201:CYC:HBC1	2.14	0.77
3:P5:86:MET:CE	11:P5:201:CYC:HBC1	2.14	0.77
3:X5:82:CYS:SG	11:X5:201:CYC:CAC	2.64	0.77
2:U6:84:CYS:SG	11:U6:201:CYC:HAC1	2.20	0.77
11:V6:202:CYC:HMA2	11:V6:202:CYC:CGA	2.13	0.77
3:C8:42:SER:HA	3:C8:45:THR:HG21	1.63	0.77
11:A1:301:CYC:HBC1	3:C1:86:MET:CE	2.14	0.77
2:B1:28:TYR:OH	11:C1:201:CYC:NB	2.16	0.77
3:I1:82:CYS:SG	11:I1:201:CYC:CAC	2.64	0.77
2:H2:84:CYS:SG	11:H2:201:CYC:HAC1	2.20	0.77
2:O2:122:PHE:CE2	11:T2:201:CYC:HAA1	2.11	0.77
5:03:563:GLU:O	6:G7:30:LEU:HD12	1.76	0.77
11:E4:202:CYC:CGA	11:E4:202:CYC:HMA2	2.13	0.77
2:F4:152:ASN:HD21	2:J4:21:ASN:HA	1.47	0.77
2:U4:19:LEU:CD2	3:V4:95:TYR:HE1	1.95	0.77
2:Y8:136:ILE:O	2:Y8:140:HIS:CD2	2.33	0.77
3:G1:86:MET:CE	11:G1:201:CYC:HBC1	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:202:CYC:CGA	11:I2:202:CYC:HMA2	2.13	0.77
5:03:443:TYR:HB3	8:J3:115:THR:HG23	1.64	0.77
8:O3:83:ARG:NH1	11:O3:1001:CYC:O2A	2.18	0.77
8:j3:83:ARG:NH1	11:j3:1001:CYC:O2A	2.18	0.77
8:t3:128:GLN:HE21	1:A4:208:ARG:CZ	1.96	0.77
2:F4:24:LEU:HD11	2:F4:28:TYR:CE1	2.20	0.77
3:P4:151:GLY:CA	11:P4:202:CYC:CMD	2.62	0.77
2:W4:149:GLU:HG2	2:W4:153:TYR:CD2	2.19	0.77
3:V5:86:MET:CE	11:V5:201:CYC:HBC1	2.14	0.77
2:Y6:17:ARG:O	3:Z6:95:TYR:OH	2.01	0.77
11:A8:301:CYC:CAC	3:C8:82:CYS:HG	1.74	0.77
11:K8:202:CYC:HMA2	11:K8:202:CYC:CGA	2.13	0.77
2:S8:149:GLU:O	2:S8:153:TYR:HD2	1.66	0.77
2:Y8:36:PHE:CE2	2:Y8:145:ASP:HB3	2.18	0.77
1:A1:209:VAL:CB	1:A1:210:PRO:CD	2.30	0.77
3:M1:82:CYS:SG	11:M1:201:CYC:CAC	2.64	0.77
3:M1:86:MET:CE	11:M1:201:CYC:HBC1	2.14	0.77
3:P1:82:CYS:SG	11:P1:201:CYC:CAC	2.64	0.77
3:X1:82:CYS:SG	11:X1:201:CYC:CAC	2.64	0.77
3:P2:151:GLY:CA	11:P2:202:CYC:HMD1	1.99	0.77
11:L4:202:CYC:HMA2	11:L4:202:CYC:CGA	2.13	0.77
3:I5:86:MET:CE	11:I5:201:CYC:HBC1	2.14	0.77
3:M5:86:MET:CE	11:M5:201:CYC:HBC1	2.14	0.77
7:X7:81:CYS:SG	11:X7:1001:CYC:CAC	2.63	0.77
11:C8:201:CYC:HMA2	11:C8:201:CYC:CGA	2.13	0.77
2:W8:17:ARG:HB3	2:W8:17:ARG:NH1	1.97	0.77
3:X8:143:MET:HA	3:X8:143:MET:CE	2.10	0.77
1:A2:193:GLN:NE2	3:G2:71:GLY:HA2	2.00	0.77
11:13:903:CYC:O2A	8:a3:83:ARG:NH1	2.18	0.77
7:N3:81:CYS:SG	11:N3:1001:CYC:CBC	2.73	0.77
7:b3:81:CYS:SG	11:b3:1001:CYC:CBC	2.73	0.77
7:o3:76:GLU:CG	1:A4:203:PHE:HE2	1.98	0.77
7:q3:25:ARG:HH11	7:Z7:24:ASP:HB3	1.49	0.77
7:u3:113:ARG:HH11	7:Q7:117:LYS:HE3	1.50	0.77
1:A4:203:PHE:HE1	1:A5:216:ALA:N	1.82	0.77
3:E4:40:ALA:HB2	3:E4:156:LEU:HD12	1.66	0.77
2:S4:22:THR:CG2	2:Y4:4:PRO:HD3	2.14	0.77
11:A5:301:CYC:HBC1	3:C5:86:MET:CE	2.14	0.77
2:S5:84:CYS:CB	11:S5:201:CYC:HAC2	2.12	0.77
3:X5:57:ARG:CZ	11:X5:203:CYC:O2D	2.33	0.77
11:G6:201:CYC:CGA	11:G6:201:CYC:HMA2	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L1:84:CYS:CB	11:L1:201:CYC:HAC2	2.12	0.77
11:N1:301:CYC:CAC	3:T1:82:CYS:SG	2.64	0.77
11:V1:202:CYC:HAC2	2:W1:84:CYS:CB	2.12	0.77
1:A2:193:GLN:HE22	3:G2:71:GLY:C	1.92	0.77
3:C2:154:SER:O	3:C2:157:GLN:HB3	1.84	0.77
8:n3:83:ARG:NH1	11:n3:1001:CYC:O2A	2.18	0.77
7:o3:79:ALA:H	1:A5:222:ALA:CB	1.98	0.77
7:u3:81:CYS:SG	11:u3:1001:CYC:CBC	2.73	0.77
7:w3:81:CYS:SG	11:w3:1001:CYC:CBC	2.73	0.77
2:D4:36:PHE:CD2	2:D4:145:ASP:CB	2.68	0.77
2:O4:21:ASN:CB	2:W4:152:ASN:HD21	1.83	0.77
8:B7:91:TYR:CE2	11:B7:1001:CYC:HBB1	2.19	0.77
2:D8:36:PHE:CD2	2:D8:145:ASP:CB	2.68	0.77
2:S8:150:THR:CG2	2:S8:154:ILE:CD1	2.62	0.77
2:Y8:134:LYS:O	2:Y8:137:LYS:HG3	1.85	0.77
2:B2:24:LEU:HD12	11:C2:202:CYC:CBB	1.98	0.77
2:D2:122:PHE:CE2	11:D2:201:CYC:HAA1	2.11	0.77
8:c3:46:ALA:CB	7:J7:154:ASP:OD1	2.33	0.77
7:o3:79:ALA:HB2	1:A5:222:ALA:HB3	0.77	0.77
8:p3:46:ALA:HB2	7:V7:154:ASP:OD1	1.85	0.77
7:q3:51:ILE:CG2	1:A8:218:PHE:CE1	2.24	0.77
8:x3:83:ARG:NH1	11:x3:1001:CYC:O2A	2.18	0.77
8:z3:83:ARG:NH1	11:z3:1001:CYC:O2A	2.18	0.77
3:G4:40:ALA:HB2	3:G4:156:LEU:HD13	1.65	0.77
7:H7:71:ASN:HD22	11:H7:1001:CYC:HC	1.31	0.77
2:B8:111:LEU:HD21	11:G8:201:CYC:CAB	2.13	0.77
3:C8:139:VAL:HA	3:C8:142:VAL:HG12	1.67	0.77
2:S8:6:THR:OG1	3:T8:1:MET:SD	2.42	0.77
11:A1:302:CYC:HBC1	3:E1:86:MET:HE2	1.67	0.77
3:K1:86:MET:HE2	11:K1:201:CYC:HBC1	1.67	0.77
4:N2:2:PRO:HD3	4:N2:154:VAL:HA	1.64	0.77
5:03:832:ASN:HD22	6:U7:35:ASN:HD21	0.79	0.77
5:13:442:VAL:CG2	5:13:608:ARG:HG3	2.15	0.77
7:d3:81:CYS:SG	11:d3:1001:CYC:CBC	2.73	0.77
8:l3:83:ARG:NH1	11:l3:1001:CYC:O2A	2.18	0.77
7:w3:25:ARG:NH1	7:S7:24:ASP:HB2	1.98	0.77
2:D4:111:LEU:HD21	11:D4:201:CYC:CAB	2.13	0.77
2:S4:149:GLU:HG2	2:S4:153:TYR:CD2	2.19	0.77
3:G5:86:MET:HE2	11:G5:201:CYC:HBC1	1.67	0.77
3:X5:86:MET:HE2	11:X5:201:CYC:HBC1	1.67	0.77
3:P8:153:CYS:SG	11:P8:202:CYC:HBC2	2.24	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S8:36:PHE:HZ	2:S8:149:GLU:OE1	1.67	0.77
2:Y8:19:LEU:H	2:Y8:19:LEU:HD22	1.48	0.77
11:Z8:202:CYC:HHA	11:Z8:202:CYC:CBD	2.12	0.77
3:V1:86:MET:HE2	11:V1:201:CYC:HBC1	1.67	0.76
3:V2:151:GLY:CA	11:V2:202:CYC:HMD3	2.07	0.76
3:X2:151:GLY:HA3	11:X2:202:CYC:HMD3	1.60	0.76
2:Y2:17:ARG:O	3:Z2:95:TYR:OH	2.01	0.76
7:i3:81:CYS:SG	11:i3:1001:CYC:CBC	2.73	0.76
3:V4:151:GLY:N	11:V4:202:CYC:CMD	2.44	0.76
2:F5:24:LEU:HD13	11:G5:202:CYC:CBB	2.13	0.76
11:N5:301:CYC:HBC1	3:T5:86:MET:CE	2.14	0.76
3:R6:37:ARG:HA	3:R6:156:LEU:CD1	2.13	0.76
7:S7:71:ASN:HD22	11:S7:1001:CYC:HC	1.31	0.76
7:X7:71:ASN:HD22	11:X7:1001:CYC:HC	1.31	0.76
2:B8:83:LYS:NZ	11:G8:201:CYC:H2A	1.82	0.76
2:Y8:137:LYS:HA	2:Y8:140:HIS:NE2	1.98	0.76
11:A1:302:CYC:HBC1	3:E1:86:MET:CE	2.14	0.76
3:K1:86:MET:CE	11:K1:201:CYC:HBC1	2.14	0.76
3:R1:86:MET:HE2	11:R1:201:CYC:HBC1	1.67	0.76
11:13:904:CYC:O2A	8:h3:83:ARG:NH1	2.18	0.76
7:o3:51:ILE:HG21	1:A5:218:PHE:HZ	1.49	0.76
2:Q4:142:LEU:HD12	2:Q4:146:ALA:HB2	1.67	0.76
2:O5:84:CYS:CB	11:O5:201:CYC:HAC2	2.12	0.76
3:R5:86:MET:CE	11:R5:201:CYC:HBC1	2.14	0.76
3:P6:106:ASN:HA	3:P6:110:LEU:HD12	1.64	0.76
2:O8:21:ASN:HA	2:W8:152:ASN:HD21	1.48	0.76
3:X1:79:MET:HG2	11:X1:203:CYC:HMA1	1.66	0.76
7:I3:81:CYS:SG	11:I3:1001:CYC:CBC	2.73	0.76
7:K3:81:CYS:SG	11:K3:1001:CYC:CBC	2.73	0.76
7:f3:81:CYS:SG	11:f3:1001:CYC:CBC	2.73	0.76
7:k3:81:CYS:SG	11:k3:1001:CYC:CBC	2.73	0.76
8:p3:83:ARG:NH1	11:p3:1001:CYC:O2A	2.18	0.76
8:r3:83:ARG:NH1	11:r3:1001:CYC:O2A	2.18	0.76
3:T6:37:ARG:O	3:T6:41:VAL:HG23	1.86	0.76
8:R7:91:TYR:CE2	11:R7:1001:CYC:HBB1	2.19	0.76
8:a7:91:TYR:CE2	11:a7:1001:CYC:HBB1	2.19	0.76
2:F1:24:LEU:CD1	11:G1:202:CYC:CBB	2.64	0.76
3:P2:33:GLU:O	3:P2:36:LYS:HG2	1.84	0.76
5:03:290:ILE:HD12	5:03:328:GLN:HE22	1.49	0.76
5:03:443:TYR:CZ	5:03:611:ILE:HG21	2.20	0.76
7:X3:3:ILE:HD12	7:H7:25:ARG:NH2	1.97	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E4:39:ASP:CG	11:E4:202:CYC:HMB2	2.11	0.76
2:Q4:24:LEU:HD21	3:R4:42:SER:HB3	1.66	0.76
2:U4:150:THR:CA	2:U4:153:TYR:HB2	2.16	0.76
2:F5:24:LEU:CD1	11:G5:202:CYC:CBB	2.64	0.76
3:K5:86:MET:HE2	11:K5:201:CYC:HBC1	1.67	0.76
3:X5:86:MET:CE	11:X5:201:CYC:HBC1	2.14	0.76
2:B8:140:HIS:ND1	2:B8:142:LEU:CG	2.44	0.76
2:S8:24:LEU:CD1	2:Y8:152:ASN:HD21	1.96	0.76
3:I1:86:MET:HE2	11:I1:201:CYC:HBC1	1.67	0.76
3:X1:57:ARG:CZ	11:X1:203:CYC:O2D	2.33	0.76
3:Z1:86:MET:CE	11:Z1:201:CYC:HBC1	2.14	0.76
7:G3:81:CYS:SG	11:G3:1001:CYC:CBC	2.73	0.76
8:W3:83:ARG:NH1	11:W3:1001:CYC:O2A	2.18	0.76
7:o3:117:LYS:HZ3	7:X7:113:ARG:HH11	1.27	0.76
8:t3:83:ARG:NH1	11:t3:1001:CYC:O2A	2.18	0.76
2:F4:28:TYR:CB	2:J4:32:ARG:HD3	2.16	0.76
3:P4:143:MET:O	11:P4:202:CYC:CMC	2.33	0.76
2:S4:150:THR:CA	2:S4:153:TYR:HB2	2.16	0.76
3:X4:67:ILE:HD12	11:Y4:201:CYC:H2A	1.49	0.76
3:R5:82:CYS:SG	11:R5:201:CYC:CAC	2.64	0.76
3:Z5:86:MET:CE	11:Z5:201:CYC:HBC1	2.14	0.76
7:J7:71:ASN:HD22	11:J7:1001:CYC:HC	1.30	0.76
7:O7:71:ASN:HD22	11:O7:1001:CYC:HC	1.30	0.76
7:Q7:71:ASN:HD22	11:Q7:1001:CYC:HC	1.31	0.76
2:B8:149:GLU:OE1	2:B8:153:TYR:CE2	2.38	0.76
2:W2:122:PHE:CE2	11:W2:201:CYC:HAA1	2.11	0.76
5:03:513:ASN:O	5:03:514:GLU:HG3	1.84	0.76
7:I3:70:GLY:HA2	7:C7:64:ASP:CG	2.11	0.76
7:X3:64:ASP:OD2	7:J7:69:GLY:C	2.28	0.76
7:q3:81:CYS:SG	11:q3:1001:CYC:CBC	2.73	0.76
7:q3:113:ARG:HH12	7:V7:117:LYS:HG2	1.49	0.76
2:B4:150:THR:HG22	2:B4:154:ILE:HD12	1.68	0.76
3:I5:86:MET:HE2	11:I5:201:CYC:HBC1	1.67	0.76
11:N5:301:CYC:CAC	3:T5:82:CYS:SG	2.64	0.76
2:B8:150:THR:HG22	2:B8:154:ILE:HD12	1.68	0.76
3:C8:139:VAL:C	3:C8:142:VAL:HG12	2.11	0.76
2:F8:28:TYR:CB	2:J8:32:ARG:HD3	2.16	0.76
2:W8:111:LEU:HD21	11:W8:201:CYC:CAB	2.13	0.76
2:J1:138:ALA:O	2:B8:64:PRO:HB3	1.86	0.76
3:K1:39:ASP:OD2	11:K1:202:CYC:NA	2.19	0.76
3:X1:39:ASP:OD2	11:X1:202:CYC:NA	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T2:37:ARG:O	3:T2:41:VAL:HG23	1.86	0.76
7:Z3:12:ASP:HA	8:a3:90:ARG:HH12	1.50	0.76
7:d3:90:ARG:NH2	8:h3:73:TYR:OH	2.19	0.76
8:t3:68:PRO:HD2	1:A5:212:ALA:O	1.86	0.76
7:w3:82:LEU:CB	1:A4:218:PHE:HD1	1.99	0.76
3:I4:151:GLY:CA	11:I4:202:CYC:HMD2	2.15	0.76
3:I5:39:ASP:OD2	11:I5:202:CYC:NA	2.19	0.76
3:P5:39:ASP:OD2	11:P5:202:CYC:NA	2.19	0.76
3:V5:82:CYS:SG	11:V5:201:CYC:CAC	2.64	0.76
2:Q8:24:LEU:HD21	3:R8:42:SER:HB3	1.66	0.76
1:A1:203:PHE:CE1	1:A1:204:ARG:CG	2.68	0.76
3:G1:86:MET:HE2	11:G1:201:CYC:HBC1	1.67	0.76
3:Z2:57:ARG:HA	3:Z2:57:ARG:NE	2.01	0.76
7:R3:81:CYS:SG	11:R3:1001:CYC:CBC	2.73	0.76
7:Z3:25:ARG:HD2	7:L7:25:ARG:CZ	2.16	0.76
7:u3:113:ARG:HE	7:u3:123:VAL:HG21	1.51	0.76
2:Y4:134:LYS:O	2:Y4:137:LYS:HG3	1.85	0.76
3:X8:67:ILE:HD12	11:Y8:201:CYC:O2A	1.84	0.76
3:M1:39:ASP:OD2	11:M1:202:CYC:NA	2.19	0.76
7:P3:81:CYS:SG	11:P3:1001:CYC:CBC	2.73	0.76
11:A4:301:CYC:HMB3	3:C4:113:LEU:HD13	1.68	0.76
3:G4:139:VAL:O	3:G4:143:MET:N	2.17	0.76
3:I4:51:ILE:CD1	3:I4:141:ILE:HD12	2.09	0.76
11:D5:201:CYC:HMD1	3:E5:151:GLY:HA3	1.68	0.76
3:I5:151:GLY:HA3	11:I5:202:CYC:HMD1	1.68	0.76
3:P5:86:MET:HE2	11:P5:201:CYC:HBC1	1.67	0.76
3:R5:39:ASP:OD2	11:R5:202:CYC:NA	2.19	0.76
3:Z5:39:ASP:OD2	11:Z5:202:CYC:NA	2.19	0.76
2:U6:122:PHE:CE2	11:U6:201:CYC:HAA1	2.11	0.76
3:P8:143:MET:O	11:P8:202:CYC:CMC	2.33	0.76
2:U8:150:THR:HG21	2:U8:154:ILE:CD1	1.80	0.76
1:A1:203:PHE:CD1	1:A1:204:ARG:HG2	2.20	0.76
5:03:637:GLU:CD	6:G7:46:MET:HE1	2.11	0.76
7:T3:81:CYS:SG	11:T3:1001:CYC:CBC	2.73	0.76
7:Z3:113:ARG:HB3	7:Z3:113:ARG:CZ	2.15	0.76
7:Z3:117:LYS:HZ3	7:H7:113:ARG:HH11	1.34	0.76
8:e3:83:ARG:NH1	11:e3:1001:CYC:O2A	2.18	0.76
3:I4:113:LEU:HD13	11:I4:201:CYC:HMB3	1.68	0.76
2:O4:21:ASN:HA	2:W4:152:ASN:HD21	1.48	0.76
11:D5:201:CYC:NA	3:E5:39:ASP:OD2	2.19	0.76
3:E6:151:GLY:HA3	11:E6:202:CYC:HMD1	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:J7:81:CYS:HG	11:J7:1001:CYC:HAC2	1.50	0.76
3:E8:36:LYS:HB3	3:E8:156:LEU:HD11	1.67	0.76
11:U8:201:CYC:H2A	3:Z8:67:ILE:HD12	1.51	0.76
2:Y8:86:ARG:HH22	11:Y8:201:CYC:H2A	0.76	0.76
11:A1:301:CYC:HBC1	3:C1:86:MET:HE2	1.67	0.75
3:M1:86:MET:HE2	11:M1:201:CYC:HBC1	1.67	0.75
3:V1:86:MET:CE	11:V1:201:CYC:HBC1	2.14	0.75
3:X1:86:MET:HE2	11:X1:201:CYC:HBC1	1.67	0.75
2:D2:84:CYS:SG	11:D2:201:CYC:HAC1	2.20	0.75
7:X3:81:CYS:SG	11:X3:1001:CYC:CBC	2.73	0.75
8:t3:61:LEU:O	1:A4:206:PRO:CD	2.34	0.75
8:t3:128:GLN:HE22	1:A4:208:ARG:NE	1.84	0.75
7:y3:81:CYS:SG	11:y3:1001:CYC:CBC	2.73	0.75
3:V4:113:LEU:HD13	11:V4:201:CYC:HMB3	1.69	0.75
3:P6:57:ARG:NH2	2:Q6:72:ASN:HB2	2.00	0.75
3:R1:39:ASP:OD2	11:R1:202:CYC:NA	2.19	0.75
11:U1:202:CYC:NA	3:V1:39:ASP:OD2	2.19	0.75
3:Z1:39:ASP:OD2	11:Z1:202:CYC:NA	2.19	0.75
7:q3:25:ARG:HH11	7:Z7:24:ASP:CB	1.99	0.75
7:q3:25:ARG:HD3	7:q3:25:ARG:O	1.86	0.75
3:C5:57:ARG:HH22	11:C5:202:CYC:CGD	1.99	0.75
3:K5:39:ASP:OD2	11:K5:202:CYC:NA	2.19	0.75
11:A8:301:CYC:HMB3	3:C8:113:LEU:HD13	1.68	0.75
2:D8:19:LEU:HD22	3:E8:95:TYR:HE1	1.49	0.75
2:Q8:24:LEU:CD2	3:R8:42:SER:HB3	2.15	0.75
3:R8:51:ILE:HD11	3:R8:141:ILE:CD1	2.14	0.75
2:S8:148:THR:OG1	11:Z8:202:CYC:CAC	2.34	0.75
2:W8:21:ASN:OD1	2:W8:21:ASN:N	2.20	0.75
11:D1:201:CYC:NA	3:E1:39:ASP:OD2	2.19	0.75
3:I1:39:ASP:OD2	11:I1:202:CYC:NA	2.19	0.75
11:E2:203:CYC:HAA1	2:F2:122:PHE:CE2	2.11	0.75
3:X2:37:ARG:HA	3:X2:156:LEU:CD2	2.16	0.75
7:w3:77:MET:HE3	1:A5:201:ARG:CG	2.15	0.75
3:E4:67:ILE:HD12	11:E4:203:CYC:H2A	1.52	0.75
3:K4:88:ILE:CD1	4:N4:251:TYR:CE1	2.70	0.75
2:L4:111:LEU:HD21	11:L4:201:CYC:CAB	2.13	0.75
3:M4:113:LEU:HD13	11:M4:202:CYC:HMB3	1.69	0.75
3:K5:151:GLY:HA3	11:K5:202:CYC:HMD1	1.68	0.75
2:L5:129:TYR:CE1	11:L5:201:CYC:CBC	2.70	0.75
3:R5:151:GLY:HA3	11:R5:202:CYC:HMD1	1.68	0.75
3:X5:39:ASP:OD2	11:X5:202:CYC:NA	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G1:39:ASP:OD2	11:G1:202:CYC:NA	2.19	0.75
2:J1:129:TYR:CE1	11:J1:201:CYC:CBC	2.70	0.75
3:P1:39:ASP:OD2	11:P1:202:CYC:NA	2.19	0.75
11:X2:203:CYC:HAA1	2:Y2:122:PHE:CE2	2.11	0.75
7:Z3:81:CYS:SG	11:Z3:1001:CYC:CBC	2.73	0.75
3:C5:39:ASP:OD2	11:C5:201:CYC:NA	2.19	0.75
2:H5:129:TYR:CE1	11:H5:201:CYC:CBC	2.70	0.75
4:N5:248:THR:N	4:N5:249:PRO:CD	2.49	0.75
11:U5:202:CYC:NA	3:V5:39:ASP:OD2	2.19	0.75
3:I8:113:LEU:HD13	11:I8:201:CYC:HMB3	1.68	0.75
1:A1:196:TRP:CZ2	7:q3:68:PRO:HG2	2.16	0.75
11:C1:202:CYC:CBC	2:D1:129:TYR:CE1	2.70	0.75
3:K1:151:GLY:HA3	11:K1:202:CYC:HMD1	1.68	0.75
11:V1:202:CYC:CBC	2:W1:129:TYR:CE1	2.70	0.75
5:03:837:LEU:HD13	6:U7:42:ARG:CZ	2.16	0.75
11:03:902:CYC:O2A	8:L3:83:ARG:NH1	2.18	0.75
8:H3:83:ARG:NH1	11:H3:1001:CYC:O2A	2.18	0.75
7:I3:70:GLY:CA	7:C7:64:ASP:CG	2.59	0.75
7:s3:81:CYS:SG	11:s3:1001:CYC:CBC	2.73	0.75
7:u3:69:GLY:CA	7:Q7:63:PRO:HD2	2.17	0.75
1:A4:196:TRP:CZ2	7:X7:63:PRO:HD3	2.20	0.75
2:B4:64:PRO:HB2	2:J5:138:ALA:HB3	1.66	0.75
3:C4:51:ILE:HD11	3:C4:141:ILE:HD12	1.67	0.75
2:J4:24:LEU:CD1	3:K4:39:ASP:HA	2.17	0.75
2:S4:148:THR:OG1	11:Z4:202:CYC:CAC	2.34	0.75
2:U4:150:THR:HG21	2:U4:154:ILE:CD1	1.80	0.75
2:B5:129:TYR:CE1	11:B5:201:CYC:CBC	2.70	0.75
3:G5:39:ASP:OD2	11:G5:202:CYC:NA	2.19	0.75
2:S5:129:TYR:CE1	11:S5:201:CYC:CBC	2.70	0.75
3:T5:39:ASP:OD2	11:T5:201:CYC:NA	2.19	0.75
2:H6:122:PHE:CE2	11:H6:201:CYC:HAA1	2.11	0.75
3:X6:37:ARG:HA	3:X6:156:LEU:CD2	2.16	0.75
3:C8:42:SER:C	3:C8:45:THR:CG2	2.54	0.75
3:C8:69:PRO:HB2	3:E8:16:GLY:HA3	1.68	0.75
11:N8:301:CYC:HMB3	3:R8:113:LEU:HD13	1.68	0.75
3:T1:39:ASP:OD2	11:T1:201:CYC:NA	2.19	0.75
2:B4:99:LEU:CD1	2:B4:149:GLU:OE2	2.34	0.75
3:K4:113:LEU:HD13	11:K4:201:CYC:HMB3	1.68	0.75
2:W4:21:ASN:OD1	2:W4:21:ASN:N	2.20	0.75
3:R5:86:MET:HE2	11:R5:201:CYC:HBC1	1.67	0.75
2:Q6:122:PHE:CE2	11:Q6:201:CYC:HAA1	2.11	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I8:151:GLY:CA	11:I8:202:CYC:CMD	2.65	0.75
2:L8:8:ALA:HB1	2:L8:23:GLU:HG3	1.69	0.75
3:P8:113:LEU:HD13	11:P8:201:CYC:HMB3	1.69	0.75
3:P1:86:MET:HE2	11:P1:201:CYC:HBC1	1.67	0.75
3:V2:33:GLU:HB3	3:V2:36:LYS:CE	2.15	0.75
7:I3:151:ALA:HB1	7:A7:20:PRO:HG3	1.69	0.75
3:P4:51:ILE:HD11	3:P4:141:ILE:CD1	2.11	0.75
2:Q4:24:LEU:CD2	3:R4:42:SER:HB3	2.15	0.75
3:G5:151:GLY:HA3	11:G5:202:CYC:HMD1	1.68	0.75
3:M5:39:ASP:OD2	11:M5:202:CYC:NA	2.19	0.75
3:I8:151:GLY:CA	11:I8:202:CYC:HMD2	2.15	0.75
2:Q8:142:LEU:HD12	2:Q8:146:ALA:HB2	1.67	0.75
3:V8:113:LEU:HD13	11:V8:201:CYC:HMB3	1.69	0.75
7:I3:117:LYS:HZ2	7:C7:113:ARG:HH12	1.28	0.75
7:q3:25:ARG:HD3	7:q3:25:ARG:C	2.12	0.75
2:J4:61:SER:O	2:J5:61:SER:HB2	1.87	0.75
2:L4:134:LYS:HA	2:L4:137:LYS:HG2	1.68	0.75
3:Z4:113:LEU:HD13	11:Z4:201:CYC:HMB3	1.69	0.75
2:S5:24:LEU:HD13	11:T5:201:CYC:CBB	2.17	0.75
3:T5:151:GLY:HA3	11:T5:201:CYC:HMD1	1.68	0.75
3:I6:57:ARG:HA	3:I6:57:ARG:NE	1.98	0.75
3:C8:139:VAL:C	3:C8:142:VAL:CG1	2.59	0.75
2:W8:150:THR:CG2	2:W8:154:ILE:HD11	2.16	0.75
11:N1:301:CYC:HBC1	3:T1:86:MET:HE2	1.67	0.75
7:X3:151:ALA:HB1	7:H7:20:PRO:CG	2.17	0.75
8:c3:83:ARG:NH1	11:c3:1001:CYC:O2A	2.18	0.75
7:q3:64:ASP:O	7:V7:64:ASP:CG	2.29	0.75
2:U8:150:THR:CA	2:U8:153:TYR:HB2	2.16	0.75
3:X8:37:ARG:NH2	3:X8:159:GLU:OE1	2.19	0.75
2:F1:129:TYR:CE1	11:F1:201:CYC:CBC	2.70	0.74
2:U1:129:TYR:CE1	11:U1:201:CYC:CBC	2.70	0.74
5:03:290:ILE:HD12	5:03:328:GLN:NE2	2.02	0.74
5:13:521:THR:HG23	5:13:524:SER:N	2.01	0.74
8:U3:83:ARG:NH1	11:U3:1001:CYC:O2A	2.18	0.74
7:o3:82:LEU:HB2	1:A5:218:PHE:HD2	1.52	0.74
3:G4:113:LEU:HD13	11:G4:202:CYC:HMB3	1.68	0.74
2:L4:8:ALA:HB1	2:L4:23:GLU:HG3	1.69	0.74
2:L4:23:GLU:N	2:L4:23:GLU:OE1	2.20	0.74
3:P4:113:LEU:HD13	11:P4:201:CYC:HMB3	1.68	0.74
3:I5:82:CYS:SG	11:I5:201:CYC:CAC	2.64	0.74
3:V5:86:MET:HE2	11:V5:201:CYC:HBC1	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T8:143:MET:HA	3:T8:143:MET:CE	2.17	0.74
3:P1:151:GLY:HA3	11:P1:202:CYC:HMD1	1.68	0.74
3:X1:57:ARG:NH2	11:X1:203:CYC:O2D	2.20	0.74
11:K2:203:CYC:HAA1	2:L2:122:PHE:CE2	2.11	0.74
2:Q2:122:PHE:CE2	11:Q2:201:CYC:HAA1	2.11	0.74
5:03:643:ASP:CG	6:G7:24:ASN:HD21	1.95	0.74
8:M3:83:ARG:NH1	11:M3:201:CYC:O2A	2.18	0.74
7:d3:51:ILE:HG21	1:A6:203:PHE:CD2	2.23	0.74
1:A4:214:ASP:CB	1:A4:217:LEU:HD13	2.16	0.74
3:I4:139:VAL:O	3:I4:143:MET:N	2.19	0.74
3:R4:153:CYS:SG	11:R4:201:CYC:HMC2	2.28	0.74
3:T4:113:LEU:HD13	11:T4:201:CYC:HMB3	1.69	0.74
2:W4:150:THR:CG2	2:W4:154:ILE:HD11	2.16	0.74
3:M5:86:MET:HE2	11:M5:201:CYC:HBC1	1.67	0.74
2:Q5:84:CYS:CB	11:Q5:201:CYC:HAC2	2.12	0.74
3:E6:153:CYS:SG	11:E6:202:CYC:HBC2	2.27	0.74
2:F6:122:PHE:CE2	11:F6:201:CYC:HAA1	2.11	0.74
3:E8:39:ASP:CG	11:E8:202:CYC:HMB2	2.11	0.74
2:H8:111:LEU:HD21	11:M8:201:CYC:CAB	2.13	0.74
2:S8:150:THR:CA	2:S8:153:TYR:HB2	2.16	0.74
2:U8:28:TYR:OH	11:V8:202:CYC:C1B	2.35	0.74
2:U8:151:ASN:O	2:U8:155:ASP:HB2	1.88	0.74
2:S1:24:LEU:HD13	11:T1:201:CYC:CBB	2.17	0.74
2:S1:24:LEU:CD1	11:T1:201:CYC:CBB	2.66	0.74
11:X1:203:CYC:CBC	2:Y1:129:TYR:CE1	2.70	0.74
3:Z1:86:MET:HE2	11:Z1:201:CYC:HBC1	1.67	0.74
8:c3:67:ARG:HD3	1:A6:214:ASP:N	2.01	0.74
3:R4:51:ILE:HD11	3:R4:141:ILE:CD1	2.14	0.74
2:U4:24:LEU:HD11	3:V4:42:SER:HB3	1.70	0.74
7:C7:71:ASN:HD22	11:C7:1001:CYC:HC	1.31	0.74
2:B8:19:LEU:HD23	3:C8:95:TYR:CE1	2.22	0.74
2:J8:27:LEU:HD13	3:K8:38:SER:HB3	1.70	0.74
3:M8:113:LEU:HD13	11:M8:202:CYC:HMB3	1.69	0.74
3:P8:139:VAL:C	3:P8:142:VAL:HG12	2.12	0.74
1:A1:203:PHE:CE2	1:A8:215:PRO:CG	2.68	0.74
2:B1:84:CYS:CB	11:B1:201:CYC:HAC2	2.12	0.74
3:C1:39:ASP:OD2	11:C1:201:CYC:NA	2.19	0.74
3:T1:151:GLY:HA3	11:T1:201:CYC:HMD1	1.68	0.74
1:A2:193:GLN:NE2	3:G2:72:ASN:H	1.81	0.74
1:A2:213:GLY:N	8:H3:67:ARG:HD3	2.01	0.74
7:X3:66:VAL:HG12	1:A6:227:ILE:HG21	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:o3:1001:CYC:O1A	8:t3:66:THR:HB	1.86	0.74
1:A4:216:ALA:CA	1:A5:203:PHE:HE1	1.95	0.74
2:S4:148:THR:OG1	11:Z4:202:CYC:HAC1	1.88	0.74
2:W4:111:LEU:HD21	11:W4:201:CYC:CAB	2.13	0.74
2:U5:129:TYR:CE1	11:U5:201:CYC:CBC	2.70	0.74
2:L6:122:PHE:CE2	11:L6:201:CYC:HAA1	2.11	0.74
3:X6:151:GLY:HA3	11:X6:202:CYC:HMD3	1.60	0.74
3:P8:51:ILE:HD11	3:P8:141:ILE:CD1	2.11	0.74
1:A1:209:VAL:CG2	1:A1:210:PRO:HD2	2.16	0.74
4:N1:248:THR:N	4:N1:249:PRO:CD	2.49	0.74
3:Z2:37:ARG:O	3:Z2:41:VAL:HG23	1.87	0.74
7:o3:74:GLY:O	7:o3:76:GLU:N	2.21	0.74
8:v3:83:ARG:NH1	11:v3:1001:CYC:O2A	2.18	0.74
3:I4:151:GLY:CA	11:I4:202:CYC:CMD	2.65	0.74
11:P4:202:CYC:HBA2	2:W4:32:ARG:HH22	1.53	0.74
3:V4:67:ILE:HD12	11:W4:201:CYC:O2A	1.86	0.74
11:N5:301:CYC:HBC1	3:T5:86:MET:HE2	1.67	0.74
11:U5:202:CYC:HMD1	3:V5:151:GLY:HA3	1.68	0.74
3:P6:33:GLU:HA	3:P6:36:LYS:HE2	1.68	0.74
3:C1:57:ARG:HH22	11:C1:202:CYC:CGD	1.99	0.74
2:J1:54:GLY:CA	2:J8:68:SER:OG	2.32	0.74
11:U1:202:CYC:HMD1	3:V1:151:GLY:HA3	1.68	0.74
8:S3:83:ARG:NH1	11:S3:1001:CYC:O2A	2.18	0.74
7:w3:117:LYS:HE2	7:O7:113:ARG:HH12	1.53	0.74
2:H4:111:LEU:HD21	11:M4:201:CYC:CAB	2.13	0.74
2:J4:150:THR:C	2:J4:153:TYR:HB2	2.12	0.74
2:L4:134:LYS:O	2:L4:137:LYS:HG3	1.87	0.74
2:U4:28:TYR:OH	11:V4:202:CYC:C1B	2.35	0.74
2:S5:24:LEU:CD1	11:T5:201:CYC:CBB	2.66	0.74
2:F1:24:LEU:CD1	11:G1:202:CYC:HBB1	2.18	0.74
3:G1:151:GLY:HA3	11:G1:202:CYC:HMD1	1.68	0.74
7:d3:52:LYS:HZ1	1:A6:201:ARG:HG3	1.51	0.74
2:J4:27:LEU:HD13	3:K4:38:SER:HB3	1.70	0.74
2:J4:68:SER:HB2	2:J5:57:GLN:HB2	1.68	0.74
2:U4:151:ASN:O	2:U4:155:ASP:HB2	1.87	0.74
11:A5:302:CYC:HBC1	3:E5:86:MET:HE2	1.67	0.74
4:N5:229:SER:HB2	4:N5:232:LEU:HB2	1.69	0.74
11:P8:202:CYC:HBA2	2:W8:32:ARG:HH22	1.53	0.74
3:T8:113:LEU:HD13	11:T8:201:CYC:HMB3	1.68	0.74
3:X8:113:LEU:HD13	11:X8:201:CYC:HMB3	1.69	0.74
3:K1:82:CYS:SG	11:K1:201:CYC:CAC	2.64	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:03:521:THR:HG23	5:03:524:SER:N	2.02	0.74
3:E4:113:LEU:HD13	11:E4:201:CYC:HMB3	1.68	0.74
3:P4:139:VAL:C	3:P4:142:VAL:HG12	2.12	0.74
2:F5:24:LEU:CD1	11:G5:202:CYC:HBB1	2.18	0.74
3:M5:151:GLY:HA3	11:M5:202:CYC:HMD1	1.68	0.74
3:X5:57:ARG:NH2	11:X5:203:CYC:O2D	2.20	0.74
2:D8:111:LEU:HD21	11:D8:201:CYC:CAB	2.13	0.74
2:D8:149:GLU:O	2:D8:153:TYR:HD2	1.68	0.74
3:V8:67:ILE:HD12	11:W8:201:CYC:O2A	1.86	0.74
3:G1:82:CYS:SG	11:G1:201:CYC:CAC	2.64	0.74
3:C2:151:GLY:CA	11:C2:202:CYC:CMD	2.64	0.74
7:I3:6:LYS:NZ	7:A7:10:ASN:ND2	2.34	0.74
7:I3:113:ARG:NE	7:C7:117:LYS:NZ	2.35	0.74
2:S4:33:GLN:HG3	2:Y4:25:GLN:HE21	0.82	0.74
3:T4:143:MET:HA	3:T4:143:MET:CE	2.17	0.74
2:U4:150:THR:HG23	2:U4:154:ILE:HD11	1.63	0.74
3:X4:113:LEU:HD13	11:X4:201:CYC:HMB3	1.69	0.74
2:Y5:28:TYR:OH	11:Z5:202:CYC:C4B	2.36	0.74
7:V7:71:ASN:HD22	11:V7:1001:CYC:HC	1.31	0.74
3:K8:113:LEU:HD13	11:K8:201:CYC:HMB3	1.68	0.74
2:S8:18:PHE:CD2	3:T8:45:THR:OG1	2.39	0.74
2:S8:148:THR:OG1	11:Z8:202:CYC:HAC1	1.88	0.74
2:U8:23:GLU:N	2:U8:23:GLU:OE1	2.21	0.74
3:Z8:113:LEU:HD13	11:Z8:201:CYC:HMB3	1.69	0.74
11:D1:201:CYC:HMD1	3:E1:151:GLY:HA3	1.68	0.74
3:X1:151:GLY:HA3	11:X1:202:CYC:HMD1	1.68	0.74
3:X2:37:ARG:HA	3:X2:156:LEU:HD21	1.70	0.74
5:03:521:THR:CG2	5:03:524:SER:HB3	2.17	0.74
3:C4:69:PRO:HB2	3:E4:16:GLY:HA3	1.68	0.74
2:U4:23:GLU:N	2:U4:23:GLU:OE1	2.21	0.74
11:A5:301:CYC:HBC1	3:C5:86:MET:HE2	1.67	0.74
11:C5:202:CYC:CBC	2:D5:129:TYR:CE1	2.70	0.74
2:J5:129:TYR:CE1	11:J5:201:CYC:CBC	2.70	0.74
3:K6:149:THR:OG1	11:K6:202:CYC:C3D	2.36	0.74
3:Z6:37:ARG:O	3:Z6:41:VAL:HG23	1.87	0.74
3:E8:36:LYS:HB3	3:E8:156:LEU:CD1	2.17	0.74
2:L8:134:LYS:HA	2:L8:137:LYS:HG2	1.68	0.74
2:U8:24:LEU:HD11	3:V8:42:SER:HB3	1.70	0.74
7:I3:69:GLY:HA3	7:C7:63:PRO:HD2	1.69	0.73
1:A4:215:PRO:CB	1:A5:203:PHE:HD1	1.99	0.73
2:J4:150:THR:HA	2:J4:153:TYR:CD2	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:172:ILE:HD12	3:G5:111:ASN:HB3	1.70	0.73
3:C5:151:GLY:HA3	11:C5:201:CYC:HMD1	1.68	0.73
2:F5:129:TYR:CE1	11:F5:201:CYC:CBC	2.70	0.73
11:X5:203:CYC:CBC	2:Y5:129:TYR:CE1	2.70	0.73
3:Z5:86:MET:HE2	11:Z5:201:CYC:HBC1	1.67	0.73
3:M6:33:GLU:HB2	3:M6:36:LYS:HE2	1.70	0.73
3:X6:40:ALA:HB2	11:X6:202:CYC:CAC	2.18	0.73
3:E8:113:LEU:HD13	11:E8:201:CYC:HMB3	1.68	0.73
3:R8:153:CYS:SG	11:R8:201:CYC:HMC2	2.27	0.73
3:T8:139:VAL:CA	3:T8:142:VAL:CG1	2.66	0.73
1:A1:89:THR:O	1:A1:93:SER:HB2	1.88	0.73
3:I1:151:GLY:HA3	11:I1:202:CYC:HMD1	1.68	0.73
4:N1:229:SER:HB2	4:N1:232:LEU:HB2	1.69	0.73
2:O1:129:TYR:CE1	11:O1:201:CYC:CBC	2.70	0.73
1:A2:207:ASP:OD2	8:O3:17:LYS:CE	2.36	0.73
11:13:902:CYC:CBC	8:Y3:81:CYS:SG	2.76	0.73
3:M4:51:ILE:CG1	3:M4:141:ILE:HD11	2.18	0.73
11:N4:301:CYC:HMB3	3:R4:113:LEU:HD13	1.69	0.73
2:Y4:150:THR:HA	2:Y4:153:TYR:HB2	1.70	0.73
3:C6:36:LYS:NZ	11:C6:202:CYC:CGD	2.52	0.73
3:G8:139:VAL:O	3:G8:143:MET:N	2.17	0.73
3:I8:139:VAL:O	3:I8:143:MET:N	2.19	0.73
2:O8:22:THR:CG2	2:W8:103:GLY:CA	2.59	0.73
7:o3:76:GLU:CB	1:A4:203:PHE:CD2	2.70	0.73
7:q3:25:ARG:CG	7:Z7:25:ARG:HH21	1.99	0.73
3:C4:57:ARG:NH1	2:D4:72:ASN:ND2	2.37	0.73
1:A5:89:THR:O	1:A5:93:SER:HB2	1.88	0.73
2:O5:129:TYR:CE1	11:O5:201:CYC:CBC	2.70	0.73
3:X5:151:GLY:HA3	11:X5:202:CYC:HMD1	1.68	0.73
3:C6:36:LYS:CD	11:C6:202:CYC:O1D	2.37	0.73
3:G8:113:LEU:HD13	11:G8:202:CYC:HMB3	1.68	0.73
2:H8:111:LEU:CD2	11:M8:201:CYC:HAB2	2.18	0.73
2:L8:134:LYS:O	2:L8:137:LYS:HG3	1.87	0.73
11:I2:203:CYC:HAA1	2:J2:122:PHE:CE2	2.11	0.73
3:X2:40:ALA:HB2	11:X2:202:CYC:HBC1	1.69	0.73
8:z3:58:LYS:O	1:A8:206:PRO:CB	2.36	0.73
2:F4:57:GLN:NE2	3:G6:150:SER:OG	2.18	0.73
3:K4:139:VAL:CA	3:K4:142:VAL:HG13	2.16	0.73
2:S4:18:PHE:CD2	3:T4:45:THR:OG1	2.39	0.73
3:P6:37:ARG:O	3:P6:41:VAL:HG23	1.89	0.73
2:B8:19:LEU:CD2	3:C8:95:TYR:CD1	2.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B8:33:GLN:HG3	2:H8:25:GLN:NE2	2.03	0.73
2:B8:140:HIS:CE1	2:B8:142:LEU:HB2	2.23	0.73
2:J8:24:LEU:CD1	3:K8:39:ASP:HA	2.17	0.73
2:J8:150:THR:C	2:J8:153:TYR:HB2	2.12	0.73
2:S8:93:ARG:NH2	3:T8:16:GLY:O	2.21	0.73
2:Y8:149:GLU:HB2	2:Y8:153:TYR:HE2	1.46	0.73
2:Q1:129:TYR:CE1	11:Q1:201:CYC:CBC	2.70	0.73
3:E2:153:CYS:SG	11:E2:202:CYC:HBC2	2.27	0.73
5:03:588:TYR:HB2	8:J3:110:ASN:HD22	1.52	0.73
8:t3:128:GLN:HE21	1:A4:208:ARG:HE	0.73	0.73
8:v3:46:ALA:HB2	7:O7:154:ASP:OD1	1.88	0.73
7:w3:73:TYR:CZ	1:A5:196:TRP:HB2	2.23	0.73
3:C4:57:ARG:NH1	2:D4:72:ASN:CB	2.50	0.73
2:Y4:111:LEU:HD23	11:Y4:201:CYC:CAB	2.18	0.73
2:Q5:129:TYR:CE1	11:Q5:201:CYC:CBC	2.70	0.73
3:V6:33:GLU:CB	3:V6:36:LYS:HE3	1.99	0.73
2:O8:111:LEU:HD21	11:O8:201:CYC:CAB	2.13	0.73
2:Q8:24:LEU:HB3	11:R8:201:CYC:CBB	2.18	0.73
11:X1:203:CYC:CAC	2:Y1:84:CYS:HA	2.18	0.73
1:A2:213:GLY:CA	8:H3:67:ARG:HG2	2.09	0.73
3:K2:149:THR:OG1	11:K2:202:CYC:C3D	2.36	0.73
3:T2:151:GLY:H	11:T2:202:CYC:C1C	2.01	0.73
3:X2:40:ALA:HB2	11:X2:202:CYC:CAC	2.18	0.73
5:13:777:GLU:HG3	7:V7:14:GLU:HG3	1.70	0.73
3:V4:67:ILE:HD12	11:W4:201:CYC:H2A	1.53	0.73
3:Z5:82:CYS:SG	11:Z5:201:CYC:CAC	2.64	0.73
2:U8:40:ALA:HB2	2:U8:146:ALA:CB	2.19	0.73
2:Y1:28:TYR:OH	11:Z1:202:CYC:C4B	2.36	0.73
3:I2:57:ARG:NH2	11:I2:203:CYC:CGD	2.51	0.73
5:03:637:GLU:OE2	6:G7:46:MET:HE3	1.88	0.73
5:13:557:ILE:HG23	11:I7:1001:CYC:CMA	2.17	0.73
7:o3:76:GLU:HG2	1:A4:203:PHE:HE2	1.54	0.73
2:B4:19:LEU:HD23	3:C4:95:TYR:CE1	2.22	0.73
3:C6:151:GLY:CA	11:C6:202:CYC:CMD	2.64	0.73
3:V6:33:GLU:HB3	3:V6:36:LYS:CE	2.15	0.73
3:K8:88:ILE:CD1	4:N8:251:TYR:CE1	2.70	0.73
7:w3:73:TYR:CE2	1:A5:196:TRP:CB	2.72	0.73
2:S4:93:ARG:NH2	3:T4:16:GLY:O	2.21	0.73
3:T6:151:GLY:H	11:T6:201:CYC:C1C	2.01	0.73
7:S7:81:CYS:SG	11:S7:1001:CYC:CAC	2.63	0.73
2:L8:23:GLU:N	2:L8:23:GLU:OE1	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:521:THR:CG2	5:13:524:SER:HB3	2.17	0.73
8:M3:73:TYR:OH	7:N3:90:ARG:NH2	2.21	0.73
11:P4:203:CYC:CAB	2:Q4:111:LEU:HD21	2.13	0.73
2:U4:40:ALA:HB2	2:U4:146:ALA:CB	2.19	0.73
3:P6:74:TYR:OH	2:Q6:93:ARG:NH1	2.22	0.73
11:R6:202:CYC:HAC1	2:S6:84:CYS:SG	2.20	0.73
2:U8:6:THR:OG1	3:V8:1:MET:SD	2.47	0.73
3:Z8:139:VAL:CA	3:Z8:142:VAL:HG13	2.18	0.73
3:C2:153:CYS:HB2	11:C2:202:CYC:HBC2	1.69	0.73
3:T2:57:ARG:CZ	11:T2:201:CYC:O1A	2.37	0.73
3:Z2:151:GLY:HA3	11:Z2:203:CYC:NB	2.04	0.73
5:03:153:ALA:O	8:M3:18:TYR:OH	2.07	0.73
7:I3:117:LYS:NZ	7:C7:113:ARG:CZ	2.51	0.73
7:X3:117:LYS:HZ2	7:J7:113:ARG:NH1	1.82	0.73
7:q3:25:ARG:HG3	7:Z7:25:ARG:NH2	1.99	0.73
2:W4:111:LEU:CD2	11:W4:201:CYC:HAB2	2.18	0.73
3:C6:153:CYS:HB2	11:C6:202:CYC:HBC2	1.69	0.73
2:H8:111:LEU:HD23	11:M8:201:CYC:CAB	2.18	0.73
2:J8:150:THR:HA	2:J8:153:TYR:CD2	2.23	0.73
3:V8:37:ARG:NH1	3:V8:159:GLU:OE2	2.21	0.73
2:S1:129:TYR:CE1	11:S1:201:CYC:CBC	2.70	0.72
7:w3:77:MET:HE3	1:A5:201:ARG:CD	2.19	0.72
2:B4:111:LEU:HD23	11:G4:201:CYC:CAB	2.18	0.72
2:H4:23:GLU:N	2:H4:23:GLU:OE1	2.21	0.72
2:O4:153:TYR:CZ	2:W4:21:ASN:ND2	2.57	0.72
3:Z4:139:VAL:CA	3:Z4:142:VAL:HG13	2.18	0.72
3:V6:57:ARG:CZ	2:W6:122:PHE:CZ	2.71	0.72
2:U8:150:THR:CG2	2:U8:154:ILE:HD12	1.88	0.72
3:V8:51:ILE:HD11	3:V8:141:ILE:CD1	2.18	0.72
1:A1:196:TRP:HB2	7:q3:73:TYR:OH	1.88	0.72
2:F1:84:CYS:HA	11:F1:201:CYC:CAC	2.18	0.72
3:M2:33:GLU:HB2	3:M2:36:LYS:HE2	1.70	0.72
3:P2:74:TYR:OH	2:Q2:93:ARG:NH1	2.22	0.72
7:X3:70:GLY:HA2	7:J7:64:ASP:CG	2.14	0.72
7:d3:52:LYS:HZ1	1:A6:201:ARG:HE	1.34	0.72
1:A4:203:PHE:HE2	1:A4:204:ARG:HH22	1.38	0.72
2:B4:33:GLN:HG3	2:H4:25:GLN:NE2	2.03	0.72
3:I4:151:GLY:HA3	11:I4:202:CYC:HMD1	1.69	0.72
2:Q4:24:LEU:HB3	11:R4:201:CYC:CBB	2.18	0.72
2:W4:19:LEU:CD2	3:X4:95:TYR:CE1	2.73	0.72
2:Y4:111:LEU:HD21	11:Y4:201:CYC:CAB	2.13	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J5:57:GLN:HA	2:J5:57:GLN:NE2	2.02	0.72
2:O8:32:ARG:NH1	11:X8:202:CYC:HBA2	2.04	0.72
3:P8:39:ASP:OD2	11:P8:202:CYC:CMB	2.38	0.72
2:B4:83:LYS:NZ	11:G4:201:CYC:H2A	1.87	0.72
2:L4:19:LEU:HD22	2:L4:19:LEU:N	2.04	0.72
2:O4:32:ARG:NH1	11:X4:202:CYC:HBA2	2.04	0.72
2:W4:150:THR:O	2:W4:153:TYR:HB2	1.89	0.72
2:W4:150:THR:CG2	2:W4:154:ILE:CD1	2.68	0.72
3:X4:51:ILE:CD1	3:X4:141:ILE:HD11	2.15	0.72
3:P5:151:GLY:HA3	11:P5:202:CYC:HMD1	1.68	0.72
2:U8:150:THR:HG23	2:U8:154:ILE:HD11	1.63	0.72
3:C1:151:GLY:HA3	11:C1:201:CYC:HMD1	1.68	0.72
3:Z1:151:GLY:HA3	11:Z1:202:CYC:HMD1	1.68	0.72
7:o3:60:GLN:N	1:A5:226:GLN:HE21	1.83	0.72
7:s3:25:ARG:HG3	7:X7:25:ARG:NH1	2.03	0.72
7:w3:117:LYS:HE2	7:O7:113:ARG:NH1	2.04	0.72
3:E4:156:LEU:HD23	3:E4:156:LEU:C	2.14	0.72
3:M4:139:VAL:O	3:M4:142:VAL:CG1	2.36	0.72
2:Q4:36:PHE:CZ	2:Q4:149:GLU:OE2	2.41	0.72
3:T4:139:VAL:O	3:T4:142:VAL:CG1	2.37	0.72
3:G5:82:CYS:SG	11:G5:201:CYC:CAC	2.64	0.72
3:T5:36:LYS:CD	11:T5:201:CYC:O1D	2.38	0.72
6:b7:17:ARG:HD2	6:b7:21:GLU:CD	2.14	0.72
2:F8:28:TYR:OH	11:F8:201:CYC:CHB	2.37	0.72
2:W8:111:LEU:HD23	11:W8:201:CYC:CAB	2.18	0.72
2:L1:24:LEU:CD1	11:M1:202:CYC:HBB2	2.20	0.72
2:O1:84:CYS:HA	11:O1:201:CYC:CAC	2.18	0.72
3:Z1:36:LYS:CD	11:Z1:202:CYC:O1D	2.38	0.72
2:D2:97:TYR:OH	3:E2:17:GLU:O	2.07	0.72
8:v3:62:TYR:CZ	1:A5:203:PHE:HB2	2.25	0.72
3:K5:36:LYS:CD	11:K5:202:CYC:O1D	2.38	0.72
2:L5:84:CYS:HA	11:L5:201:CYC:CAC	2.18	0.72
3:E8:37:ARG:HA	3:E8:156:LEU:HD21	1.71	0.72
2:U8:140:HIS:HE1	2:U8:142:LEU:HB2	1.54	0.72
2:H1:129:TYR:CE1	11:H1:201:CYC:CBC	2.70	0.72
2:J1:141:GLY:HA2	2:B8:61:SER:HB3	1.71	0.72
3:K1:36:LYS:CD	11:K1:202:CYC:O1D	2.38	0.72
7:X3:117:LYS:HZ2	7:J7:113:ARG:HH12	1.38	0.72
2:B4:19:LEU:CD2	3:C4:95:TYR:CD1	2.71	0.72
2:O4:22:THR:CG2	2:W4:103:GLY:CA	2.59	0.72
3:C5:36:LYS:CD	11:C5:201:CYC:O1D	2.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M5:36:LYS:CD	11:M5:202:CYC:O1D	2.38	0.72
2:O8:145:ASP:OD1	11:X8:202:CYC:HMA2	1.90	0.72
2:J1:84:CYS:HA	11:J1:201:CYC:CAC	2.18	0.72
2:J1:138:ALA:CB	2:B8:64:PRO:HB3	2.14	0.72
2:Q1:84:CYS:HA	11:Q1:201:CYC:CAC	2.18	0.72
3:P2:37:ARG:O	3:P2:41:VAL:HG23	1.89	0.72
3:Z2:33:GLU:CB	3:Z2:36:LYS:HE2	2.20	0.72
7:d3:66:VAL:HG11	1:A6:196:TRP:CG	2.24	0.72
2:F4:24:LEU:CD1	11:F4:201:CYC:C3B	2.66	0.72
3:V4:67:ILE:HD12	2:W4:86:ARG:HH22	1.54	0.72
3:X5:36:LYS:CD	11:X5:202:CYC:O1D	2.38	0.72
7:X7:64:ASP:OD2	7:X7:65:VAL:HG13	1.89	0.72
11:P8:203:CYC:CAB	2:Q8:111:LEU:HD21	2.13	0.72
3:P1:36:LYS:CD	11:P1:202:CYC:O1D	2.38	0.72
7:Z3:25:ARG:CG	7:L7:25:ARG:HE	2.01	0.72
7:d3:47:ARG:CD	1:A6:205:THR:HG21	2.19	0.72
2:J4:19:LEU:H	2:J4:19:LEU:CD2	2.03	0.72
2:U4:6:THR:OG1	3:V4:1:MET:SD	2.47	0.72
3:M5:82:CYS:SG	11:M5:201:CYC:CAC	2.64	0.72
11:V5:202:CYC:CBC	2:W5:129:TYR:CE1	2.70	0.72
3:C6:57:ARG:HH21	11:C6:203:CYC:CGD	1.94	0.72
3:V6:33:GLU:HB3	3:V6:36:LYS:NZ	2.05	0.72
3:C8:40:ALA:HB2	3:C8:156:LEU:HD11	1.70	0.72
11:E8:203:CYC:CAB	2:F8:111:LEU:HD23	2.18	0.72
3:I8:139:VAL:CA	3:I8:142:VAL:HG13	2.20	0.72
2:L8:19:LEU:HD22	2:L8:19:LEU:N	2.04	0.72
3:M8:36:LYS:C	3:M8:156:LEU:HD11	2.15	0.72
3:M8:51:ILE:CG1	3:M8:141:ILE:HD11	2.18	0.72
2:Q8:36:PHE:CZ	2:Q8:149:GLU:OE2	2.41	0.72
3:T8:139:VAL:O	3:T8:142:VAL:CG1	2.37	0.72
2:Y8:111:LEU:HD21	11:Y8:201:CYC:CAB	2.13	0.72
2:Y8:150:THR:HA	2:Y8:153:TYR:HB2	1.70	0.72
2:B1:129:TYR:CE1	11:B1:201:CYC:CBC	2.70	0.72
3:M1:151:GLY:HA3	11:M1:202:CYC:HMD1	1.68	0.72
3:X1:36:LYS:CD	11:X1:202:CYC:O1D	2.38	0.72
7:I3:113:ARG:NH1	7:C7:117:LYS:HG2	2.03	0.72
7:u3:70:GLY:CA	7:Q7:64:ASP:OD1	2.37	0.72
2:B4:140:HIS:CE1	2:B4:142:LEU:HB2	2.23	0.72
2:L4:36:PHE:CE1	2:L4:149:GLU:OE1	2.43	0.72
3:V4:159:GLU:HG2	3:V4:163:TYR:CE2	2.24	0.72
3:G5:36:LYS:CD	11:G5:202:CYC:O1D	2.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z6:151:GLY:HA3	11:Z6:202:CYC:NB	2.04	0.72
2:F8:23:GLU:N	2:F8:23:GLU:OE1	2.22	0.72
3:I8:151:GLY:HA3	11:I8:202:CYC:HMD1	1.69	0.72
3:Z8:34:GLY:HA2	3:Z8:37:ARG:NH1	2.04	0.72
3:I1:36:LYS:CD	11:I1:202:CYC:O1D	2.38	0.72
3:R1:151:GLY:HA3	11:R1:202:CYC:HMD1	1.68	0.72
11:U1:202:CYC:O1D	3:V1:36:LYS:CD	2.38	0.72
7:K3:113:ARG:HG3	7:K3:113:ARG:NH2	2.05	0.72
3:X4:143:MET:HA	3:X4:143:MET:CE	2.10	0.72
2:B5:24:LEU:HD13	11:C5:201:CYC:CBB	2.20	0.72
8:I7:1:MET:HB2	6:N7:1:MET:HE1	1.71	0.72
2:W8:19:LEU:CD2	3:X8:95:TYR:CE1	2.73	0.72
1:A1:172:ILE:HD12	3:G1:111:ASN:HB3	1.70	0.71
3:G1:36:LYS:CD	11:G1:202:CYC:O1D	2.38	0.71
7:o3:60:GLN:HA	1:A5:226:GLN:NE2	2.05	0.71
2:S4:36:PHE:HZ	2:S4:149:GLU:OE1	1.67	0.71
3:V6:148:VAL:CG1	11:V6:202:CYC:NC	2.53	0.71
2:D8:18:PHE:CZ	3:E8:91:ARG:HB2	2.25	0.71
3:G8:82:CYS:SG	11:G8:202:CYC:NC	2.63	0.71
3:K8:139:VAL:CA	3:K8:142:VAL:HG13	2.16	0.71
11:N8:301:CYC:NC	3:R8:82:CYS:SG	2.63	0.71
3:P8:82:CYS:SG	11:P8:201:CYC:NC	2.63	0.71
3:V8:82:CYS:SG	11:V8:201:CYC:NC	2.63	0.71
2:W8:149:GLU:O	2:W8:153:TYR:HD2	1.73	0.71
3:Z8:82:CYS:SG	11:Z8:201:CYC:NC	2.63	0.71
2:L1:129:TYR:CE1	11:L1:201:CYC:CBC	2.70	0.71
3:M2:153:CYS:HB2	11:M2:202:CYC:HAC2	1.72	0.71
3:V2:33:GLU:HB3	3:V2:36:LYS:NZ	2.05	0.71
3:I4:39:ASP:OD2	11:I4:202:CYC:CMB	2.36	0.71
11:P4:203:CYC:HAB2	2:Q4:111:LEU:CD2	2.18	0.71
3:V4:82:CYS:SG	11:V4:201:CYC:NC	2.63	0.71
3:X4:82:CYS:SG	11:X4:201:CYC:NC	2.63	0.71
3:K5:82:CYS:SG	11:K5:201:CYC:CAC	2.64	0.71
2:U5:84:CYS:HA	11:U5:201:CYC:CAC	2.18	0.71
2:D6:97:TYR:OH	3:E6:17:GLU:O	2.07	0.71
3:I8:82:CYS:SG	11:I8:201:CYC:NC	2.63	0.71
2:J8:19:LEU:H	2:J8:19:LEU:CD2	2.03	0.71
2:U8:28:TYR:CZ	11:V8:202:CYC:NB	2.58	0.71
11:V1:202:CYC:CAC	2:W1:84:CYS:HA	2.18	0.71
3:I2:107:ASP:HB3	3:I2:108:ARG:NH1	2.05	0.71
6:23:22:LEU:HD11	8:U3:83:ARG:HH11	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K3:25:ARG:NH2	7:E7:21:GLY:CA	2.53	0.71
7:q3:113:ARG:NH2	7:q3:160:MET:O	2.24	0.71
8:v3:62:TYR:CD1	1:A4:215:PRO:HG2	2.25	0.71
11:A4:301:CYC:NC	3:C4:82:CYS:SG	2.63	0.71
3:E4:82:CYS:SG	11:E4:201:CYC:NC	2.63	0.71
2:F4:21:ASN:O	2:F4:25:GLN:HG3	1.91	0.71
3:G4:143:MET:SD	3:G4:157:GLN:HB2	2.31	0.71
2:F6:28:TYR:OH	11:G6:201:CYC:C3A	2.39	0.71
3:R1:36:LYS:CD	11:R1:202:CYC:O1D	2.38	0.71
3:K2:37:ARG:HA	3:K2:156:LEU:CD1	2.20	0.71
3:P2:33:GLU:HB2	3:P2:36:LYS:HG3	1.72	0.71
5:03:521:THR:HG22	5:03:524:SER:HB3	1.71	0.71
7:I3:113:ARG:HD2	7:C7:117:LYS:NZ	1.75	0.71
7:d3:78:THR:HG21	1:A6:199:ALA:HB3	1.72	0.71
7:q3:52:LYS:HG3	1:A8:221:MET:CG	2.20	0.71
2:B4:64:PRO:HG3	2:J5:139:ASN:CG	2.10	0.71
3:C4:36:LYS:NZ	3:C4:152:ASP:O	2.22	0.71
3:G4:82:CYS:SG	11:G4:202:CYC:NC	2.63	0.71
2:S4:22:THR:HG23	2:Y4:103:GLY:HA2	1.72	0.71
3:R5:36:LYS:CD	11:R5:202:CYC:O1D	2.38	0.71
3:K6:64:PRO:HG2	3:T6:65:GLN:HB3	1.73	0.71
11:A8:301:CYC:NC	3:C8:82:CYS:SG	2.63	0.71
11:F8:201:CYC:HMB2	3:G8:39:ASP:OD2	1.90	0.71
3:I8:139:VAL:HA	3:I8:142:VAL:HG13	1.72	0.71
3:K8:139:VAL:HA	3:K8:142:VAL:HG13	1.73	0.71
3:T8:82:CYS:SG	11:T8:201:CYC:NC	2.63	0.71
3:V8:139:VAL:CA	3:V8:142:VAL:HG12	2.21	0.71
2:L1:28:TYR:OH	11:M1:202:CYC:NB	2.24	0.71
3:T2:57:ARG:NH2	11:T2:201:CYC:O1A	2.24	0.71
8:z3:62:TYR:CZ	1:A8:203:PHE:HB3	2.25	0.71
2:F4:28:TYR:OH	11:F4:201:CYC:CHB	2.37	0.71
3:T4:82:CYS:SG	11:T4:201:CYC:NC	2.63	0.71
2:W4:149:GLU:O	2:W4:153:TYR:HD2	1.73	0.71
2:B5:84:CYS:HA	11:B5:201:CYC:CAC	2.18	0.71
11:U5:202:CYC:O1D	3:V5:36:LYS:CD	2.38	0.71
3:I6:107:ASP:HB3	3:I6:108:ARG:NH1	2.05	0.71
3:M6:153:CYS:HB2	11:M6:202:CYC:HAC2	1.72	0.71
3:X6:37:ARG:HA	3:X6:156:LEU:HD21	1.70	0.71
3:Z6:33:GLU:CB	3:Z6:36:LYS:HE2	2.20	0.71
3:K8:82:CYS:SG	11:K8:201:CYC:NC	2.63	0.71
3:M8:139:VAL:O	3:M8:142:VAL:CG1	2.36	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V8:153:CYS:SG	11:V8:202:CYC:CBC	2.79	0.71
2:W8:150:THR:O	2:W8:153:TYR:HB2	1.89	0.71
3:X8:43:ARG:NH2	3:X8:144:ASP:OD1	2.23	0.71
3:X8:82:CYS:SG	11:X8:201:CYC:NC	2.63	0.71
10:V3:105:GLU:HA	10:V3:109:LEU:HB2	1.73	0.71
7:d3:74:GLY:H	1:A6:194:VAL:HG22	1.54	0.71
2:B4:99:LEU:HD13	2:B4:149:GLU:CD	2.15	0.71
11:I4:203:CYC:CAB	2:J4:111:LEU:HD21	2.13	0.71
2:O4:21:ASN:HA	2:W4:152:ASN:ND2	2.05	0.71
2:H5:24:LEU:CD1	11:I5:202:CYC:HBB2	2.21	0.71
3:M8:82:CYS:SG	11:M8:202:CYC:NC	2.63	0.71
2:S1:84:CYS:HA	11:S1:201:CYC:CAC	2.18	0.71
2:L2:27:LEU:HD21	3:M2:38:SER:OG	1.91	0.71
8:p3:46:ALA:CA	7:V7:154:ASP:OD1	2.39	0.71
7:q3:25:ARG:HG2	7:Z7:25:ARG:HD3	1.72	0.71
2:B4:149:GLU:C	2:B4:153:TYR:HD2	1.98	0.71
11:F4:201:CYC:HMB2	3:G4:39:ASP:OD2	1.90	0.71
3:T4:139:VAL:CA	3:T4:142:VAL:CG1	2.66	0.71
3:V4:51:ILE:HD11	3:V4:141:ILE:CD1	2.18	0.71
2:Y4:86:ARG:HH22	11:Y4:201:CYC:H2A	0.71	0.71
3:Z5:151:GLY:HA3	11:Z5:202:CYC:HMD1	1.68	0.71
2:L6:27:LEU:HD21	3:M6:38:SER:OG	1.91	0.71
3:P6:33:GLU:HA	3:P6:36:LYS:CE	2.21	0.71
3:P6:151:GLY:HA3	11:P6:202:CYC:HMD1	1.55	0.71
11:R6:202:CYC:HAA1	2:S6:122:PHE:CE2	2.11	0.71
2:H8:23:GLU:N	2:H8:23:GLU:OE1	2.21	0.71
2:Y8:19:LEU:HD22	2:Y8:19:LEU:N	2.05	0.71
3:K2:57:ARG:CZ	11:K2:203:CYC:O1A	2.38	0.71
7:I3:113:ARG:CD	7:C7:117:LYS:HZ2	1.72	0.71
7:u3:70:GLY:HA2	7:Q7:64:ASP:CG	2.14	0.71
3:K4:82:CYS:SG	11:K4:201:CYC:NC	2.63	0.71
3:P4:82:CYS:SG	11:P4:201:CYC:NC	2.63	0.71
3:V4:153:CYS:SG	11:V4:202:CYC:CBC	2.79	0.71
2:W4:111:LEU:HD23	11:W4:201:CYC:CAB	2.18	0.71
3:Z4:82:CYS:SG	11:Z4:201:CYC:NC	2.63	0.71
3:Z5:36:LYS:CD	11:Z5:202:CYC:O1D	2.38	0.71
3:C8:36:LYS:NZ	3:C8:152:ASP:O	2.22	0.71
3:G8:143:MET:SD	3:G8:157:GLN:HB2	2.31	0.71
2:O8:153:TYR:CZ	2:W8:21:ASN:ND2	2.57	0.71
2:W8:23:GLU:O	2:W8:26:TYR:HB2	1.91	0.71
2:F2:28:TYR:OH	11:G2:201:CYC:C3A	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o3:59:PHE:CZ	7:o3:78:THR:HG23	2.24	0.71
3:C4:40:ALA:HB2	3:C4:156:LEU:HD11	1.70	0.71
2:J4:67:THR:OG1	2:J5:57:GLN:HB3	1.90	0.71
2:L4:36:PHE:HD2	2:L4:145:ASP:OD1	1.71	0.71
11:N4:301:CYC:NC	3:R4:82:CYS:SG	2.63	0.71
2:U4:28:TYR:CZ	11:V4:202:CYC:NB	2.58	0.71
2:W4:23:GLU:O	2:W4:26:TYR:HB2	1.91	0.71
11:A5:301:CYC:CAC	3:C5:82:CYS:SG	2.64	0.71
2:D8:24:LEU:CD1	2:L8:152:ASN:HD22	2.03	0.71
2:J8:19:LEU:HD22	2:J8:19:LEU:N	2.05	0.71
2:S8:111:LEU:CD2	11:S8:201:CYC:HAB2	2.18	0.71
3:T8:127:VAL:HG22	11:T8:201:CYC:HBC2	1.73	0.71
2:B1:24:LEU:HD13	11:C1:201:CYC:CBB	2.20	0.71
1:A2:200:VAL:HG11	7:N3:56:ASP:OD2	1.91	0.71
5:03:523:VAL:C	7:C7:106:GLU:CD	2.58	0.71
7:o3:6:LYS:HZ3	7:V7:10:ASN:ND2	1.88	0.71
7:o3:64:ASP:OD2	7:X7:70:GLY:N	2.24	0.71
7:u3:6:LYS:NZ	7:O7:10:ASN:ND2	2.36	0.71
7:u3:64:ASP:OD2	7:Q7:70:GLY:HA2	1.91	0.71
3:I4:147:GLY:O	3:I4:148:VAL:CG1	2.38	0.71
3:M4:36:LYS:C	3:M4:156:LEU:HD11	2.15	0.71
2:J5:122:PHE:CE2	11:J5:201:CYC:HAA1	2.25	0.71
3:K5:119:ALA:HA	4:N5:212:ALA:HB1	1.73	0.71
2:L5:24:LEU:CD1	11:M5:202:CYC:HBB2	2.20	0.71
2:S6:152:ASN:HD21	11:Z6:202:CYC:HBC3	1.56	0.71
1:A2:193:GLN:HE22	3:G2:71:GLY:CA	2.03	0.70
3:C2:33:GLU:HA	3:C2:36:LYS:HG3	1.72	0.70
2:S2:152:ASN:HD21	11:Z2:203:CYC:HBC3	1.56	0.70
5:13:521:THR:HG22	5:13:524:SER:HB3	1.70	0.70
7:K3:117:LYS:HZ2	7:A7:113:ARG:HH12	0.74	0.70
7:d3:73:TYR:HD1	1:A6:194:VAL:CG2	1.81	0.70
7:w3:86:ASP:HB2	1:A4:218:PHE:CZ	2.25	0.70
3:K4:41:VAL:HG22	3:K4:97:THR:HG23	1.73	0.70
2:U4:140:HIS:HE1	2:U4:142:LEU:HB2	1.54	0.70
3:X4:43:ARG:NH2	3:X4:144:ASP:OD1	2.23	0.70
2:Y4:19:LEU:HD22	2:Y4:19:LEU:N	2.05	0.70
3:K6:37:ARG:HD2	3:K6:97:THR:O	1.91	0.70
2:Y6:84:CYS:SG	11:Y6:201:CYC:HAC1	2.20	0.70
2:D8:111:LEU:HD23	11:D8:201:CYC:CAB	2.18	0.70
3:G8:127:VAL:HG22	11:G8:202:CYC:HBC2	1.73	0.70
1:A1:208:ARG:HA	1:A1:208:ARG:HE	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D1:201:CYC:O1D	3:E1:36:LYS:CD	2.38	0.70
2:H2:122:PHE:CE2	11:H2:201:CYC:HAA1	2.11	0.70
10:m3:105:GLU:HA	10:m3:109:LEU:HB2	1.73	0.70
7:w3:79:ALA:HA	1:A4:222:ALA:HB2	1.72	0.70
2:B4:18:PHE:CD1	3:C4:91:ARG:HG3	2.27	0.70
3:I4:41:VAL:HG22	3:I4:97:THR:HG23	1.74	0.70
2:J4:19:LEU:HD22	2:J4:19:LEU:N	2.05	0.70
3:M4:82:CYS:SG	11:M4:202:CYC:NC	2.63	0.70
2:O4:145:ASP:OD1	11:X4:202:CYC:HMA2	1.90	0.70
3:R4:51:ILE:CD1	3:R4:141:ILE:HD12	2.17	0.70
3:T4:127:VAL:HG22	11:T4:201:CYC:HBC2	1.73	0.70
3:Z4:34:GLY:HA2	3:Z4:37:ARG:NH1	2.04	0.70
3:P5:36:LYS:CD	11:P5:202:CYC:O1D	2.38	0.70
2:Q5:111:LEU:HD21	11:Q5:201:CYC:HAB2	1.72	0.70
11:A8:301:CYC:HBC2	3:C8:127:VAL:HG22	1.73	0.70
2:L8:111:LEU:HD23	11:L8:201:CYC:CAB	2.18	0.70
3:Z8:144:ASP:OD1	3:Z8:145:PRO:CD	2.39	0.70
3:K2:64:PRO:HG2	3:T2:65:GLN:HB3	1.73	0.70
3:X2:150:SER:O	11:X2:202:CYC:HAD2	1.91	0.70
5:13:443:TYR:HE2	11:13:902:CYC:HAA1	1.57	0.70
3:I4:82:CYS:SG	11:I4:201:CYC:NC	2.63	0.70
2:U4:111:LEU:HD21	11:U4:201:CYC:CAB	2.13	0.70
3:V4:41:VAL:HG22	3:V4:97:THR:HG23	1.73	0.70
2:Y4:36:PHE:CD2	2:Y4:145:ASP:HB3	2.27	0.70
3:C6:35:THR:HG22	3:C6:36:LYS:CE	2.21	0.70
3:X6:150:SER:O	11:X6:202:CYC:HAD2	1.91	0.70
2:O8:2:LYS:HD3	2:W8:15:GLN:OE1	1.91	0.70
3:P8:127:VAL:HG22	11:P8:201:CYC:HBC2	1.73	0.70
2:H1:84:CYS:HA	11:H1:201:CYC:CAC	2.18	0.70
11:X1:203:CYC:HAA1	2:Y1:122:PHE:CE2	2.25	0.70
3:V2:148:VAL:CG1	11:V2:202:CYC:NC	2.53	0.70
5:03:290:ILE:CD1	5:03:328:GLN:NE2	2.54	0.70
5:03:513:ASN:C	5:03:514:GLU:HG2	2.16	0.70
8:H3:46:ALA:CB	7:C7:154:ASP:OD1	2.39	0.70
7:Z3:25:ARG:CD	7:L7:25:ARG:HH21	2.04	0.70
7:Z3:25:ARG:NH2	7:L7:21:GLY:HA3	2.07	0.70
7:u3:113:ARG:NH1	7:Q7:117:LYS:CD	2.54	0.70
2:D4:18:PHE:CZ	3:E4:91:ARG:HB2	2.25	0.70
2:F5:84:CYS:HA	11:F5:201:CYC:CAC	2.18	0.70
3:I5:36:LYS:CD	11:I5:202:CYC:O1D	2.38	0.70
3:E8:82:CYS:SG	11:E8:201:CYC:NC	2.63	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K8:146:ALA:O	3:K8:148:VAL:HG13	1.92	0.70
3:V8:67:ILE:HD12	2:W8:86:ARG:HH22	1.54	0.70
3:X8:127:VAL:HG22	11:X8:201:CYC:HBC2	1.73	0.70
3:K2:111:ASN:HD22	4:N2:218:ASP:HB3	1.57	0.70
5:03:718:LEU:O	6:U7:23:GLN:OE1	2.10	0.70
7:Z3:113:ARG:HD3	7:H7:117:LYS:HZ2	1.53	0.70
1:A4:196:TRP:HA	1:A4:196:TRP:HE3	1.57	0.70
2:B4:61:SER:CB	2:J5:141:GLY:CA	2.38	0.70
2:B4:140:HIS:ND1	2:B4:142:LEU:CG	2.44	0.70
11:I4:203:CYC:HAB2	2:J4:111:LEU:CD2	2.18	0.70
2:O4:111:LEU:HD21	11:O4:201:CYC:CAB	2.13	0.70
3:P4:127:VAL:HG22	11:P4:201:CYC:HBC2	1.73	0.70
2:Y4:13:ASP:OD1	3:Z4:108:ARG:NH1	2.25	0.70
2:J6:24:LEU:CB	11:K6:202:CYC:HBB1	2.21	0.70
3:Z6:151:GLY:CA	11:Z6:202:CYC:OB	2.40	0.70
3:E8:36:LYS:C	3:E8:156:LEU:HD11	2.16	0.70
2:H8:140:HIS:CE1	2:H8:142:LEU:HG	2.26	0.70
2:W8:150:THR:CG2	2:W8:154:ILE:CD1	2.68	0.70
2:J1:122:PHE:CE2	11:J1:201:CYC:HAA1	2.25	0.70
3:K1:119:ALA:HA	4:N1:212:ALA:HB1	1.73	0.70
3:T1:36:LYS:CD	11:T1:201:CYC:O1D	2.38	0.70
3:K2:37:ARG:HD2	3:K2:97:THR:O	1.91	0.70
5:13:443:TYR:CZ	11:13:902:CYC:HBA1	2.24	0.70
7:Z3:6:LYS:NZ	7:L7:22:GLU:OE1	2.25	0.70
8:z3:62:TYR:HE1	1:A8:203:PHE:HB2	1.40	0.70
3:K4:111:ASN:ND2	4:N4:218:ASP:OD2	2.24	0.70
11:N4:301:CYC:HBC2	3:R4:127:VAL:HG22	1.73	0.70
2:L5:28:TYR:OH	11:M5:202:CYC:NB	2.24	0.70
2:Q5:84:CYS:HA	11:Q5:201:CYC:CAC	2.18	0.70
3:V6:37:ARG:HA	3:V6:156:LEU:HD21	1.72	0.70
3:G8:36:LYS:C	3:G8:156:LEU:HD11	2.17	0.70
3:K8:111:ASN:ND2	4:N8:218:ASP:OD2	2.24	0.70
2:S8:22:THR:HG23	2:Y8:103:GLY:HA2	1.72	0.70
3:R2:39:ASP:OD2	11:R2:201:CYC:HHB	1.92	0.70
3:Z2:151:GLY:CA	11:Z2:203:CYC:OB	2.40	0.70
7:X3:70:GLY:CA	7:J7:64:ASP:CG	2.64	0.70
7:d3:82:LEU:C	1:A6:203:PHE:CE1	2.68	0.70
7:u3:69:GLY:HA2	1:A8:196:TRP:HZ2	1.57	0.70
7:w3:69:GLY:C	7:O7:64:ASP:OD2	2.34	0.70
3:E4:41:VAL:HG22	3:E4:97:THR:HG23	1.73	0.70
3:G4:127:VAL:HG22	11:G4:202:CYC:HBC2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O4:2:LYS:HD3	2:W4:15:GLN:OE1	1.91	0.70
2:S5:8:ALA:HB1	2:S5:23:GLU:HG3	1.74	0.70
3:I6:109:CYS:SG	11:I6:201:CYC:CAB	2.79	0.70
3:G8:41:VAL:HG22	3:G8:97:THR:HG23	1.73	0.70
3:K8:41:VAL:HG22	3:K8:97:THR:HG23	1.73	0.70
3:M8:67:ILE:HD12	11:M8:201:CYC:H2A	1.57	0.70
11:P8:203:CYC:HAC1	2:Q8:84:CYS:CB	2.22	0.70
2:S8:111:LEU:HD21	11:S8:201:CYC:CAB	2.13	0.70
2:B1:84:CYS:HA	11:B1:201:CYC:CAC	2.18	0.70
3:C1:36:LYS:CD	11:C1:201:CYC:O1D	2.38	0.70
2:O1:24:LEU:CD1	11:P1:202:CYC:HBB2	2.22	0.70
2:Q1:28:TYR:HH	11:R1:202:CYC:HB	1.40	0.70
7:d3:56:ASP:OD2	1:A6:200:VAL:HG21	1.90	0.70
7:q3:113:ARG:HH21	7:q3:161:GLU:HA	1.57	0.70
1:A4:196:TRP:HA	1:A4:196:TRP:CE3	2.27	0.70
3:G4:43:ARG:NH2	3:G4:144:ASP:OD1	2.24	0.70
3:K4:139:VAL:HA	3:K4:142:VAL:HG11	1.74	0.70
2:S4:84:CYS:CB	11:S4:201:CYC:HAC1	2.22	0.70
3:X4:127:VAL:HG22	11:X4:201:CYC:HBC2	1.73	0.70
2:Y4:84:CYS:CB	11:Y4:201:CYC:HAC1	2.22	0.70
2:J5:111:LEU:HD21	11:J5:201:CYC:HAB2	1.73	0.70
2:B8:149:GLU:C	2:B8:153:TYR:HD2	1.98	0.70
3:G8:43:ARG:NH2	3:G8:144:ASP:OD1	2.24	0.70
2:H8:84:CYS:CB	11:M8:201:CYC:HAC1	2.22	0.70
3:I8:41:VAL:HG22	3:I8:97:THR:HG23	1.73	0.70
2:S8:36:PHE:HE1	2:S8:149:GLU:OE1	1.73	0.70
2:S8:84:CYS:CB	11:S8:201:CYC:HAC1	2.22	0.70
2:U8:84:CYS:CB	11:U8:201:CYC:HAC1	2.22	0.70
2:W8:84:CYS:CB	11:W8:201:CYC:HAC1	2.22	0.70
3:X8:139:VAL:CA	3:X8:142:VAL:CG1	2.70	0.70
2:H1:24:LEU:CD1	11:I1:202:CYC:HBB2	2.21	0.70
2:J1:8:ALA:HB1	2:J1:23:GLU:HG3	1.74	0.70
2:Q1:8:ALA:HB1	2:Q1:23:GLU:HG3	1.74	0.70
3:P2:32:ALA:O	3:P2:36:LYS:HD3	1.91	0.70
2:S2:152:ASN:ND2	11:Z2:203:CYC:HBC3	2.07	0.70
3:V2:84:ARG:HD2	3:V2:88:ILE:HD12	1.74	0.70
3:X2:40:ALA:CB	11:X2:202:CYC:HBC1	2.22	0.70
7:K3:113:ARG:HG3	7:K3:113:ARG:HH21	1.57	0.70
7:d3:52:LYS:HZ3	1:A6:201:ARG:CZ	2.05	0.70
7:q3:64:ASP:C	7:V7:64:ASP:OD1	2.34	0.70
2:F4:23:GLU:N	2:F4:23:GLU:OE1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I4:51:ILE:CD1	3:I4:141:ILE:HD11	2.21	0.70
3:I4:139:VAL:HA	3:I4:142:VAL:HG12	1.70	0.70
2:U4:111:LEU:CD2	11:U4:201:CYC:HAB2	2.18	0.70
3:V4:153:CYS:CB	11:V4:202:CYC:HAC2	2.21	0.70
2:H5:8:ALA:HB1	2:H5:23:GLU:HG3	1.74	0.70
2:U5:111:LEU:HD21	11:U5:201:CYC:HAB2	1.73	0.70
3:T6:37:ARG:HA	3:T6:156:LEU:HD21	1.73	0.70
1:A8:127:ILE:HG13	11:A8:301:CYC:HMA2	1.72	0.70
2:B8:84:CYS:CB	11:G8:201:CYC:HAC1	2.22	0.70
2:D8:84:CYS:CB	11:D8:201:CYC:HAC1	2.22	0.70
11:E8:203:CYC:HAC1	2:F8:84:CYS:CB	2.22	0.70
2:L8:111:LEU:HD21	11:L8:201:CYC:CAB	2.13	0.70
2:O8:86:ARG:NH2	11:O8:201:CYC:O2A	2.03	0.70
3:T8:41:VAL:HG22	3:T8:97:THR:HG23	1.73	0.70
11:C1:202:CYC:HAB2	2:D1:111:LEU:HD21	1.72	0.70
2:S1:122:PHE:CE2	11:S1:201:CYC:HAA1	2.25	0.70
2:J2:24:LEU:HB2	11:K2:202:CYC:CBB	2.22	0.70
7:I3:113:ARG:CZ	7:C7:117:LYS:HZ2	2.05	0.70
7:d3:73:TYR:HE1	1:A6:194:VAL:CB	1.81	0.70
7:q3:51:ILE:HG21	1:A8:218:PHE:CZ	2.20	0.70
7:q3:52:LYS:CG	1:A8:221:MET:SD	2.80	0.70
7:q3:52:LYS:HA	1:A8:221:MET:HE3	1.74	0.70
11:A4:301:CYC:HBC2	3:C4:127:VAL:HG22	1.73	0.70
2:H4:145:ASP:N	2:H4:145:ASP:OD2	2.25	0.70
2:U4:84:CYS:CB	11:U4:201:CYC:HAC1	2.22	0.70
2:D5:8:ALA:HB1	2:D5:23:GLU:HG3	1.74	0.70
2:L5:111:LEU:HD21	11:L5:201:CYC:HAB2	1.73	0.70
11:X5:203:CYC:HAB2	2:Y5:111:LEU:HD21	1.73	0.70
2:D8:149:GLU:C	2:D8:153:TYR:HD2	2.00	0.70
2:U8:150:THR:HG23	2:U8:154:ILE:CG1	2.21	0.70
2:F1:8:ALA:HB1	2:F1:23:GLU:HG3	1.74	0.69
2:U1:122:PHE:CE2	11:U1:201:CYC:HAA1	2.25	0.69
1:A2:214:ASP:OD1	8:H3:67:ARG:NH2	2.25	0.69
5:03:557:ILE:CD1	8:B7:83:ARG:CZ	2.70	0.69
1:A4:196:TRP:HZ2	7:X7:63:PRO:CD	2.04	0.69
3:K4:146:ALA:O	3:K4:148:VAL:HG13	1.92	0.69
2:L4:86:ARG:HH12	11:L4:201:CYC:CGA	2.05	0.69
11:C5:202:CYC:CAC	2:D5:84:CYS:HA	2.18	0.69
2:O5:24:LEU:CD1	11:P5:202:CYC:HBB2	2.22	0.69
2:O5:111:LEU:HD21	11:O5:201:CYC:HAB2	1.73	0.69
2:Q5:8:ALA:HB1	2:Q5:23:GLU:HG3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D6:24:LEU:HB3	11:E6:202:CYC:CBB	2.22	0.69
3:K6:37:ARG:HA	3:K6:156:LEU:CD1	2.20	0.69
8:F7:126:THR:OG1	11:F7:1001:CYC:HMC1	1.92	0.69
8:Y7:126:THR:OG1	11:Y7:1001:CYC:HMC1	1.92	0.69
2:B8:18:PHE:CD1	3:C8:91:ARG:HG3	2.27	0.69
2:F8:153:TYR:CE2	2:J8:21:ASN:ND2	2.60	0.69
2:H8:86:ARG:HH12	11:M8:201:CYC:CGA	2.05	0.69
3:M8:127:VAL:HG22	11:M8:202:CYC:HBC2	1.73	0.69
4:N8:49:MET:CE	3:T8:84:ARG:NH2	2.54	0.69
2:W1:8:ALA:HB1	2:W1:23:GLU:HG3	1.74	0.69
2:B4:86:ARG:HH12	11:G4:201:CYC:CGA	2.05	0.69
2:D4:84:CYS:CB	11:D4:201:CYC:HAC1	2.22	0.69
11:E4:203:CYC:HAC1	2:F4:84:CYS:CB	2.22	0.69
11:I4:203:CYC:CGA	2:J4:86:ARG:HH12	2.05	0.69
11:P4:203:CYC:HAC1	2:Q4:84:CYS:CB	2.22	0.69
2:U4:86:ARG:HH12	11:U4:201:CYC:CGA	2.05	0.69
2:W4:149:GLU:O	2:W4:153:TYR:CD2	2.45	0.69
11:C5:202:CYC:HAB2	2:D5:111:LEU:HD21	1.73	0.69
2:J5:84:CYS:HA	11:J5:201:CYC:CAC	2.18	0.69
2:B8:86:ARG:HH12	11:G8:201:CYC:CGA	2.05	0.69
2:H8:145:ASP:OD2	2:H8:145:ASP:N	2.25	0.69
3:I8:39:ASP:OD2	11:I8:202:CYC:CMB	2.36	0.69
11:I8:203:CYC:HAC1	2:J8:84:CYS:CB	2.22	0.69
3:V8:153:CYS:CB	11:V8:202:CYC:HAC2	2.21	0.69
2:D1:8:ALA:HB1	2:D1:23:GLU:HG3	1.74	0.69
2:F1:28:TYR:HH	11:G1:202:CYC:HB	1.38	0.69
3:Z2:33:GLU:HB2	3:Z2:36:LYS:HE3	1.75	0.69
7:w3:73:TYR:CZ	1:A5:196:TRP:CB	2.75	0.69
2:D4:86:ARG:HH12	11:D4:201:CYC:CGA	2.05	0.69
3:I4:139:VAL:HA	3:I4:142:VAL:HG13	1.72	0.69
2:S4:19:LEU:CD2	3:T4:95:TYR:HE1	2.04	0.69
2:S4:111:LEU:HD23	11:S4:201:CYC:CAB	2.18	0.69
2:U4:24:LEU:HB3	11:V4:202:CYC:HBB2	1.70	0.69
2:F5:111:LEU:HD21	11:F5:201:CYC:HAB1	1.75	0.69
2:H5:84:CYS:HA	11:H5:201:CYC:CAC	2.18	0.69
2:J5:111:LEU:HD21	11:J5:201:CYC:HAB1	1.75	0.69
2:S5:122:PHE:CE2	11:S5:201:CYC:HAA1	2.25	0.69
2:U5:8:ALA:HB1	2:U5:23:GLU:HG3	1.74	0.69
8:D7:126:THR:OG1	11:D7:1001:CYC:HMC1	1.92	0.69
8:M7:126:THR:OG1	11:M7:1001:CYC:HMC1	1.92	0.69
8:P7:126:THR:OG1	11:P7:1001:CYC:HMC1	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I8:127:VAL:HG22	11:I8:201:CYC:HBC2	1.73	0.69
2:J8:149:GLU:HG3	2:J8:153:TYR:CE2	2.27	0.69
3:M8:82:CYS:HG	11:M8:202:CYC:CAC	1.76	0.69
2:Y8:36:PHE:CD2	2:Y8:145:ASP:HB3	2.27	0.69
2:F1:111:LEU:HD21	11:F1:201:CYC:HAB2	1.73	0.69
2:H1:8:ALA:HB1	2:H1:23:GLU:HG3	1.74	0.69
3:T2:139:VAL:O	3:T2:143:MET:HG2	1.92	0.69
7:d3:52:LYS:HE2	1:A6:201:ARG:CA	2.21	0.69
7:o3:64:ASP:OD2	7:X7:69:GLY:C	2.35	0.69
2:D4:26:TYR:CE2	2:L4:4:PRO:HB3	2.27	0.69
3:E4:153:CYS:SG	11:E4:202:CYC:CAC	2.80	0.69
2:F4:153:TYR:CE2	2:J4:21:ASN:ND2	2.60	0.69
3:I4:127:VAL:HG22	11:I4:201:CYC:HBC2	1.73	0.69
2:O4:153:TYR:CD1	2:W4:21:ASN:ND2	2.46	0.69
3:P4:39:ASP:OD2	11:P4:202:CYC:CMB	2.38	0.69
3:V4:139:VAL:CA	3:V4:142:VAL:HG12	2.21	0.69
2:S5:111:LEU:HD21	11:S5:201:CYC:HAB1	1.75	0.69
2:S6:152:ASN:ND2	11:Z6:202:CYC:HBC3	2.07	0.69
3:V6:33:GLU:CA	3:V6:36:LYS:CE	2.51	0.69
11:F8:201:CYC:CAB	2:J8:149:GLU:OE1	2.40	0.69
3:K8:127:VAL:HG22	11:K8:201:CYC:HBC2	1.73	0.69
2:L8:84:CYS:CB	11:L8:201:CYC:HAC1	2.22	0.69
3:P8:41:VAL:HG22	3:P8:97:THR:HG23	1.73	0.69
2:U8:24:LEU:HB3	11:V8:202:CYC:HBB2	1.70	0.69
2:W8:149:GLU:O	2:W8:153:TYR:CD2	2.45	0.69
2:Y8:149:GLU:O	2:Y8:153:TYR:HD2	1.71	0.69
11:C1:202:CYC:CAC	2:D1:84:CYS:HA	2.18	0.69
2:H1:73:ASN:C	11:H1:201:CYC:HMD2	2.18	0.69
11:V1:202:CYC:HAB1	2:W1:111:LEU:HD21	1.75	0.69
5:03:290:ILE:CD1	5:03:328:GLN:HE22	2.05	0.69
7:o3:59:PHE:CE2	7:o3:78:THR:HG22	2.26	0.69
7:w3:73:TYR:OH	1:A5:196:TRP:CB	2.34	0.69
2:H4:140:HIS:CE1	2:H4:142:LEU:HG	2.26	0.69
3:K4:153:CYS:HB2	11:K4:202:CYC:HAC2	1.75	0.69
4:N4:87:TYR:O	3:P4:108:ARG:NE	2.25	0.69
2:Y4:23:GLU:N	2:Y4:23:GLU:OE1	2.26	0.69
3:Z4:127:VAL:HG22	11:Z4:201:CYC:HBC2	1.73	0.69
2:L5:111:LEU:HD21	11:L5:201:CYC:HAB1	1.75	0.69
4:N5:88:ASN:ND2	3:P5:1:MET:SD	2.66	0.69
3:K6:111:ASN:HD22	4:N6:218:ASP:HB3	1.57	0.69
3:P6:33:GLU:CA	3:P6:36:LYS:CE	2.68	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T7:126:THR:OG1	11:T7:1001:CYC:HMC1	1.93	0.69
7:Z7:44:THR:HG22	8:a7:18:TYR:HD1	1.57	0.69
1:A8:208:ARG:HH22	1:A8:211:GLN:HG2	0.86	0.69
11:I8:203:CYC:CGA	2:J8:86:ARG:HH12	2.05	0.69
2:J8:2:LYS:H	2:J8:105:GLY:HA3	1.58	0.69
2:L8:36:PHE:HD2	2:L8:145:ASP:OD1	1.71	0.69
2:O8:84:CYS:CB	11:O8:201:CYC:HAC1	2.22	0.69
2:S8:19:LEU:CD2	3:T8:95:TYR:HE1	2.04	0.69
2:W8:111:LEU:CD2	11:W8:201:CYC:HAB2	2.18	0.69
3:Z8:139:VAL:CA	3:Z8:142:VAL:CG1	2.71	0.69
2:U1:8:ALA:HB1	2:U1:23:GLU:HG3	1.74	0.69
1:A2:201:ARG:NE	7:N3:52:LYS:NZ	2.39	0.69
3:I2:109:CYS:SG	11:I2:201:CYC:CAB	2.79	0.69
3:V2:37:ARG:HA	3:V2:156:LEU:HD22	1.74	0.69
7:u3:113:ARG:CD	7:Q7:117:LYS:HE3	2.20	0.69
7:w3:64:ASP:O	7:O7:64:ASP:CG	2.34	0.69
2:B4:19:LEU:HD23	3:C4:95:TYR:HE1	1.57	0.69
3:C4:43:ARG:HH21	3:C4:148:VAL:HG11	1.47	0.69
2:S4:2:LYS:H	2:S4:105:GLY:HA3	1.58	0.69
2:S4:36:PHE:HE1	2:S4:149:GLU:OE1	1.73	0.69
2:U4:40:ALA:CB	2:U4:146:ALA:HB1	2.22	0.69
2:W4:86:ARG:HH12	11:W4:201:CYC:CGA	2.05	0.69
11:D5:201:CYC:O1D	3:E5:36:LYS:CD	2.38	0.69
2:O5:73:ASN:C	11:O5:201:CYC:HMD2	2.18	0.69
3:T6:37:ARG:CA	3:T6:156:LEU:HD11	2.23	0.69
4:N8:87:TYR:O	3:P8:108:ARG:NE	2.25	0.69
3:T8:36:LYS:HB3	3:T8:156:LEU:HD12	1.74	0.69
3:V8:127:VAL:HG22	11:V8:201:CYC:HBC2	1.73	0.69
2:L1:8:ALA:HB1	2:L1:23:GLU:HG3	1.74	0.69
1:A2:199:ALA:O	7:N3:82:LEU:CD1	2.40	0.69
5:13:489:ASN:ND2	8:a3:83:ARG:HH12	1.91	0.69
8:c3:67:ARG:HD3	1:A6:213:GLY:H	1.58	0.69
7:w3:25:ARG:NH2	7:S7:21:GLY:O	2.21	0.69
1:A4:216:ALA:HA	1:A5:203:PHE:CE1	2.27	0.69
2:D4:2:LYS:H	2:D4:105:GLY:HA3	1.58	0.69
11:P4:203:CYC:H2A	2:Q4:86:ARG:NH2	1.87	0.69
2:J5:8:ALA:HB1	2:J5:23:GLU:HG3	1.74	0.69
11:V5:202:CYC:HMD2	2:W5:73:ASN:C	2.18	0.69
1:A8:203:PHE:HE2	1:A8:204:ARG:HH22	1.37	0.69
3:C8:43:ARG:HH22	3:C8:148:VAL:CG2	2.06	0.69
3:E8:127:VAL:HG22	11:E8:201:CYC:HBC2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I8:147:GLY:O	3:I8:148:VAL:CG1	2.38	0.69
2:Y8:13:ASP:OD1	3:Z8:108:ARG:NH1	2.25	0.69
11:C1:202:CYC:HMD2	2:D1:73:ASN:C	2.18	0.69
3:M1:36:LYS:CD	11:M1:202:CYC:O1D	2.38	0.69
5:13:39:GLU:OE2	7:k3:6:LYS:NZ	2.25	0.69
7:o3:51:ILE:HG21	1:A5:218:PHE:CE2	2.28	0.69
7:q3:52:LYS:HG3	1:A8:221:MET:HG3	1.75	0.69
7:q3:52:LYS:HA	1:A8:221:MET:CE	2.23	0.69
2:B4:21:ASN:HD21	2:H4:152:ASN:CG	2.01	0.69
2:B4:84:CYS:CB	11:G4:201:CYC:HAC1	2.22	0.69
2:D4:24:LEU:CD1	2:L4:152:ASN:HD22	2.03	0.69
2:H4:84:CYS:CB	11:M4:201:CYC:HAC1	2.22	0.69
3:I4:137:ALA:O	3:I4:141:ILE:HG13	1.92	0.69
2:J4:2:LYS:H	2:J4:105:GLY:HA3	1.58	0.69
2:J4:149:GLU:HG3	2:J4:153:TYR:CE2	2.27	0.69
3:K4:127:VAL:HG22	11:K4:201:CYC:HBC2	1.73	0.69
3:M4:7:ARG:HH11	3:T4:169:LYS:HE2	1.58	0.69
4:N4:49:MET:CE	3:T4:84:ARG:NH2	2.54	0.69
2:O4:86:ARG:HH12	11:O4:201:CYC:CGA	2.05	0.69
2:U4:150:THR:CG2	2:U4:154:ILE:HD12	1.88	0.69
2:W4:84:CYS:CB	11:W4:201:CYC:HAC1	2.22	0.69
2:B5:111:LEU:HD21	11:B5:201:CYC:HAB2	1.73	0.69
11:G5:201:CYC:HB	11:G5:201:CYC:HMA1	1.58	0.69
2:H5:122:PHE:CE2	11:H5:201:CYC:HAA1	2.25	0.69
2:Q5:73:ASN:C	11:Q5:201:CYC:HMD2	2.18	0.69
2:W5:8:ALA:HB1	2:W5:23:GLU:HG3	1.74	0.69
2:B6:28:TYR:OH	11:C6:202:CYC:C2A	2.41	0.69
3:I6:57:ARG:NH2	11:J6:201:CYC:CGD	2.56	0.69
3:P6:151:GLY:N	11:P6:202:CYC:HMD1	2.07	0.69
3:T6:37:ARG:HA	3:T6:156:LEU:CD2	2.23	0.69
8:P7:13:ASP:OD2	6:U7:63:ASN:ND2	2.26	0.69
7:S7:72:ALA:HB2	11:S7:1001:CYC:OC	1.93	0.69
7:Z7:72:ALA:HB2	11:Z7:1001:CYC:OC	1.93	0.69
2:B8:21:ASN:HD21	2:H8:152:ASN:CG	2.01	0.69
2:D8:26:TYR:CE2	2:L8:4:PRO:HB3	2.27	0.69
3:E8:153:CYS:SG	11:E8:202:CYC:CAC	2.80	0.69
2:Q8:2:LYS:H	2:Q8:105:GLY:HA3	1.58	0.69
3:R8:41:VAL:HG22	3:R8:97:THR:HG23	1.74	0.69
11:T8:202:CYC:NB	11:T8:202:CYC:HMA1	2.08	0.69
2:U8:86:ARG:HH12	11:U8:201:CYC:CGA	2.05	0.69
3:V8:41:VAL:HG22	3:V8:97:THR:HG23	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W8:86:ARG:HH12	11:W8:201:CYC:CGA	2.05	0.69
2:Y8:84:CYS:CB	11:Y8:201:CYC:HAC1	2.22	0.69
2:F1:73:ASN:C	11:F1:201:CYC:HMD2	2.18	0.69
2:L1:73:ASN:C	11:L1:201:CYC:HMD2	2.18	0.69
2:D2:24:LEU:HB3	11:E2:202:CYC:CBB	2.22	0.69
3:V2:37:ARG:HA	3:V2:156:LEU:HD21	1.72	0.69
8:c3:67:ARG:CD	1:A6:213:GLY:C	2.64	0.69
7:d3:59:PHE:C	1:A6:196:TRP:CH2	2.71	0.69
1:A4:127:ILE:HG13	11:A4:301:CYC:HMA2	1.72	0.69
2:D4:149:GLU:C	2:D4:153:TYR:HD2	2.00	0.69
3:G4:36:LYS:C	3:G4:156:LEU:HD11	2.17	0.69
2:L4:84:CYS:CB	11:L4:201:CYC:HAC1	2.22	0.69
11:X4:202:CYC:NB	11:X4:202:CYC:HMA1	2.08	0.69
3:Z4:144:ASP:OD1	3:Z4:145:PRO:CD	2.39	0.69
2:F5:8:ALA:HB1	2:F5:23:GLU:HG3	1.74	0.69
2:H5:73:ASN:C	11:H5:201:CYC:HMD2	2.18	0.69
2:D8:86:ARG:HH12	11:D8:201:CYC:CGA	2.05	0.69
3:E8:41:VAL:HG22	3:E8:97:THR:HG23	1.73	0.69
11:N8:301:CYC:HBC2	3:R8:127:VAL:HG22	1.73	0.69
2:U8:40:ALA:CB	2:U8:146:ALA:HB1	2.22	0.69
2:B1:8:ALA:HB1	2:B1:23:GLU:HG3	1.74	0.69
2:O1:24:LEU:CD1	11:P1:202:CYC:CBB	2.71	0.69
2:S1:111:LEU:HD21	11:S1:201:CYC:HAB2	1.73	0.69
2:U1:111:LEU:HD21	11:U1:201:CYC:HAB2	1.73	0.69
1:A2:193:GLN:HE22	3:G2:71:GLY:HA2	1.57	0.69
5:13:523:VAL:HG12	7:J7:106:GLU:OE1	1.93	0.69
2:F4:2:LYS:H	2:F4:105:GLY:HA3	1.58	0.69
3:M4:41:VAL:HG22	3:M4:97:THR:HG23	1.73	0.69
2:O4:2:LYS:H	2:O4:105:GLY:HA3	1.58	0.69
3:T4:36:LYS:HB3	3:T4:156:LEU:HD12	1.74	0.69
3:T4:41:VAL:HG22	3:T4:97:THR:HG23	1.74	0.69
2:U4:150:THR:HG23	2:U4:154:ILE:CG1	2.21	0.69
2:B5:111:LEU:HD21	11:B5:201:CYC:HAB1	1.75	0.69
2:J5:73:ASN:C	11:J5:201:CYC:HMD2	2.18	0.69
2:S5:111:LEU:HD21	11:S5:201:CYC:HAB2	1.73	0.69
2:Y5:8:ALA:HB1	2:Y5:23:GLU:HG3	1.74	0.69
2:J6:84:CYS:SG	11:J6:201:CYC:HAC1	2.20	0.69
3:P6:33:GLU:HA	3:P6:36:LYS:CD	2.23	0.69
7:C7:72:ALA:HB2	11:C7:1001:CYC:OC	1.93	0.69
7:H7:72:ALA:HB2	11:H7:1001:CYC:OC	1.93	0.69
7:Q7:72:ALA:HB2	11:Q7:1001:CYC:OC	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L8:19:LEU:H	2:L8:19:LEU:CD2	2.06	0.69
2:U8:36:PHE:CE2	2:U8:145:ASP:HB3	2.28	0.69
11:G1:201:CYC:HB	11:G1:201:CYC:HMA1	1.58	0.68
2:H1:24:LEU:HD12	11:I1:202:CYC:CBB	2.24	0.68
2:S1:111:LEU:HD21	11:S1:201:CYC:HAB1	1.75	0.68
11:G2:201:CYC:NB	11:G2:201:CYC:HMA1	2.08	0.68
11:I2:202:CYC:NB	11:I2:202:CYC:HMA1	2.08	0.68
11:V2:202:CYC:NB	11:V2:202:CYC:HMA1	2.09	0.68
3:E4:127:VAL:HG22	11:E4:201:CYC:HBC2	1.73	0.68
3:G4:41:VAL:HG22	3:G4:97:THR:HG23	1.73	0.68
11:I4:203:CYC:HAC1	2:J4:84:CYS:CB	2.22	0.68
11:T4:202:CYC:NB	11:T4:202:CYC:HMA1	2.08	0.68
3:X4:139:VAL:CA	3:X4:142:VAL:CG1	2.70	0.68
2:Y4:2:LYS:H	2:Y4:105:GLY:HA3	1.58	0.68
3:Z4:139:VAL:CA	3:Z4:142:VAL:CG1	2.71	0.68
2:L5:73:ASN:C	11:L5:201:CYC:HMD2	2.18	0.68
11:K6:202:CYC:NB	11:K6:202:CYC:HMA1	2.08	0.68
3:T6:139:VAL:O	3:T6:143:MET:HG2	1.92	0.68
3:V6:84:ARG:HD2	3:V6:88:ILE:HD12	1.74	0.68
7:A7:81:CYS:HG	11:A7:1001:CYC:HAC2	1.58	0.68
8:K7:126:THR:OG1	11:K7:1001:CYC:HMC1	1.92	0.68
8:R7:126:THR:OG1	11:R7:1001:CYC:HMC1	1.93	0.68
2:B8:152:ASN:HD21	2:H8:21:ASN:CA	2.06	0.68
11:E8:203:CYC:CGA	2:F8:86:ARG:HH12	2.05	0.68
2:L8:86:ARG:HH12	11:L8:201:CYC:CGA	2.05	0.68
11:L8:202:CYC:NB	11:L8:202:CYC:HMA1	2.09	0.68
3:T8:151:GLY:HA3	11:T8:202:CYC:HMD3	1.71	0.68
2:W8:2:LYS:H	2:W8:105:GLY:HA3	1.58	0.68
3:X8:149:THR:OG1	11:X8:202:CYC:HAD1	1.93	0.68
3:Z8:127:VAL:HG22	11:Z8:201:CYC:HBC2	1.73	0.68
2:B1:73:ASN:C	11:B1:201:CYC:HMD2	2.18	0.68
2:L1:84:CYS:HA	11:L1:201:CYC:CAC	2.18	0.68
4:N1:88:ASN:ND2	3:P1:1:MET:SD	2.66	0.68
2:S1:8:ALA:HB1	2:S1:23:GLU:HG3	1.74	0.68
2:S1:24:LEU:CD1	11:T1:201:CYC:HBB2	2.24	0.68
11:V1:202:CYC:HAB2	2:W1:111:LEU:HD21	1.72	0.68
2:B2:28:TYR:OH	11:C2:202:CYC:C2A	2.41	0.68
3:C2:33:GLU:CA	3:C2:36:LYS:CG	2.62	0.68
3:T2:37:ARG:HA	3:T2:156:LEU:HD21	1.73	0.68
2:Y2:28:TYR:CE2	11:Z2:203:CYC:HMD2	2.28	0.68
7:Z3:71:ASN:OD1	11:Z3:1001:CYC:HMD2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o3:77:MET:HE1	1:A4:201:ARG:HG3	1.72	0.68
3:P4:41:VAL:HG22	3:P4:97:THR:HG23	1.74	0.68
2:Q4:8:ALA:HB1	2:Q4:23:GLU:HG3	1.75	0.68
2:O5:8:ALA:HB1	2:O5:23:GLU:HG3	1.74	0.68
8:B7:81:CYS:HG	11:B7:1001:CYC:CAC	2.03	0.68
8:B7:126:THR:OG1	11:B7:1001:CYC:HMC1	1.92	0.68
11:C8:201:CYC:NB	11:C8:201:CYC:HMA1	2.09	0.68
2:D8:28:TYR:OH	11:E8:202:CYC:CHB	2.41	0.68
11:F8:201:CYC:NB	11:F8:201:CYC:HMA1	2.08	0.68
2:O8:2:LYS:H	2:O8:105:GLY:HA3	1.58	0.68
2:O8:86:ARG:HH12	11:O8:201:CYC:CGA	2.05	0.68
2:L1:111:LEU:HD21	11:L1:201:CYC:HAB1	1.75	0.68
2:Q1:111:LEU:HD21	11:Q1:201:CYC:HAB1	1.75	0.68
2:Q1:111:LEU:HD21	11:Q1:201:CYC:HAB2	1.73	0.68
2:B4:152:ASN:HD21	2:H4:21:ASN:CA	2.06	0.68
2:H4:140:HIS:HD1	2:H4:142:LEU:CG	1.94	0.68
11:L4:202:CYC:NB	11:L4:202:CYC:HMA1	2.09	0.68
2:O4:84:CYS:CB	11:O4:201:CYC:HAC1	2.22	0.68
11:B5:201:CYC:H2D	3:G5:57:ARG:NH2	1.87	0.68
2:H5:24:LEU:HD12	11:I5:202:CYC:CBB	2.24	0.68
2:Q5:111:LEU:HD21	11:Q5:201:CYC:HAB1	1.75	0.68
2:S5:73:ASN:C	11:S5:201:CYC:HMD2	2.18	0.68
2:U5:111:LEU:HD21	11:U5:201:CYC:HAB1	1.75	0.68
11:I6:202:CYC:NB	11:I6:202:CYC:HMA1	2.08	0.68
11:P6:202:CYC:NB	11:P6:202:CYC:HMA1	2.09	0.68
2:B8:149:GLU:HG2	2:B8:153:TYR:CE2	2.28	0.68
11:I8:203:CYC:H2A	2:J8:86:ARG:NH2	1.83	0.68
3:K8:153:CYS:HB2	11:K8:202:CYC:HAC2	1.75	0.68
2:S8:2:LYS:H	2:S8:105:GLY:HA3	1.58	0.68
2:U8:142:LEU:C	2:U8:147:ALA:HB2	2.18	0.68
2:Y8:86:ARG:HH12	11:Y8:201:CYC:CGA	2.05	0.68
2:U1:111:LEU:HD21	11:U1:201:CYC:HAB1	1.75	0.68
5:03:513:ASN:O	5:03:514:GLU:HG2	1.92	0.68
7:d3:83:ARG:CA	1:A6:203:PHE:CZ	2.76	0.68
7:o3:18:LEU:HD12	8:p3:97:LEU:HD13	1.74	0.68
3:C4:41:VAL:HG22	3:C4:97:THR:HG23	1.74	0.68
3:C4:43:ARG:HH22	3:C4:148:VAL:CG2	2.06	0.68
11:E4:203:CYC:CGA	2:F4:86:ARG:HH12	2.05	0.68
11:F4:201:CYC:NB	11:F4:201:CYC:HMA1	2.09	0.68
2:H4:98:CYS:HG	2:H4:153:TYR:HE1	0.75	0.68
2:Q4:2:LYS:H	2:Q4:105:GLY:HA3	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U4:2:LYS:H	2:U4:105:GLY:HA3	1.58	0.68
2:U4:36:PHE:CE2	2:U4:145:ASP:HB3	2.28	0.68
2:W4:23:GLU:N	2:W4:23:GLU:OE1	2.26	0.68
2:B5:73:ASN:C	11:B5:201:CYC:HMD2	2.18	0.68
11:C5:202:CYC:HMD2	2:D5:73:ASN:C	2.18	0.68
2:L5:8:ALA:HB1	2:L5:23:GLU:HG3	1.74	0.68
2:O5:24:LEU:CD1	11:P5:202:CYC:CBB	2.71	0.68
11:U5:201:CYC:O2D	3:Z5:57:ARG:NH1	2.26	0.68
11:X5:203:CYC:HAB1	2:Y5:111:LEU:HD21	1.75	0.68
2:O6:28:TYR:HE2	11:P6:202:CYC:HMA3	1.58	0.68
3:V6:37:ARG:HA	3:V6:156:LEU:HD22	1.74	0.68
8:a7:126:THR:OG1	11:a7:1001:CYC:HMC1	1.92	0.68
2:L8:2:LYS:H	2:L8:105:GLY:HA3	1.58	0.68
2:Y8:23:GLU:N	2:Y8:23:GLU:OE1	2.26	0.68
11:Z8:202:CYC:NB	11:Z8:202:CYC:HMA1	2.08	0.68
2:H1:24:LEU:CD1	11:I1:202:CYC:CBB	2.71	0.68
2:U1:84:CYS:HA	11:U1:201:CYC:CAC	2.18	0.68
11:K2:202:CYC:NB	11:K2:202:CYC:HMA1	2.08	0.68
7:q3:113:ARG:HH12	7:V7:117:LYS:CG	2.07	0.68
7:y3:71:ASN:OD1	11:y3:1001:CYC:HMD2	1.94	0.68
2:D4:28:TYR:OH	11:E4:202:CYC:CHB	2.41	0.68
11:I4:202:CYC:NB	11:I4:202:CYC:HMA1	2.09	0.68
3:X4:149:THR:OG1	11:X4:202:CYC:HAD1	1.93	0.68
2:Y4:149:GLU:O	2:Y4:153:TYR:CG	2.47	0.68
11:R6:201:CYC:NB	11:R6:201:CYC:HMA1	2.09	0.68
11:V6:202:CYC:NB	11:V6:202:CYC:HMA1	2.09	0.68
7:A7:72:ALA:HB2	11:A7:1001:CYC:OC	1.93	0.68
7:E7:72:ALA:HB2	11:E7:1001:CYC:OC	1.93	0.68
8:I7:126:THR:OG1	11:I7:1001:CYC:HMC1	1.92	0.68
7:L7:72:ALA:HB2	11:L7:1001:CYC:OC	1.93	0.68
7:S7:25:ARG:HA	7:S7:25:ARG:HH11	1.58	0.68
2:B8:2:LYS:H	2:B8:105:GLY:HA3	1.58	0.68
11:P8:202:CYC:NB	11:P8:202:CYC:HMA1	2.09	0.68
11:P8:203:CYC:CGA	2:Q8:86:ARG:HH12	2.05	0.68
2:W8:23:GLU:N	2:W8:23:GLU:OE1	2.26	0.68
3:Z8:143:MET:SD	3:Z8:157:GLN:HB2	2.33	0.68
2:J1:73:ASN:C	11:J1:201:CYC:HMD2	2.18	0.68
2:O1:111:LEU:HD21	11:O1:201:CYC:HAB1	1.75	0.68
11:X1:203:CYC:HMD2	2:Y1:73:ASN:C	2.18	0.68
3:C2:32:ALA:O	3:C2:36:LYS:CE	2.35	0.68
7:P3:71:ASN:OD1	11:P3:1001:CYC:HMD2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d3:71:ASN:OD1	11:d3:1001:CYC:HMD2	1.94	0.68
11:E4:203:CYC:CAB	2:F4:111:LEU:HD23	2.18	0.68
3:V4:127:VAL:HG22	11:V4:201:CYC:HBC2	1.73	0.68
11:V4:202:CYC:NB	11:V4:202:CYC:HMA1	2.09	0.68
11:I5:201:CYC:HMA1	11:I5:201:CYC:HB	1.58	0.68
11:X5:203:CYC:CAC	2:Y5:84:CYS:HA	2.18	0.68
3:R6:37:ARG:CA	3:R6:156:LEU:HD11	2.23	0.68
2:D8:2:LYS:H	2:D8:105:GLY:HA3	1.58	0.68
11:K8:202:CYC:NB	11:K8:202:CYC:HMA1	2.08	0.68
3:V8:151:GLY:HA3	11:V8:202:CYC:HMD1	0.69	0.68
2:H1:111:LEU:HD21	11:H1:201:CYC:HAB2	1.73	0.68
2:S1:73:ASN:C	11:S1:201:CYC:HMD2	2.18	0.68
2:U1:73:ASN:C	11:U1:201:CYC:HMD2	2.18	0.68
3:V1:126:SER:OG	11:V1:201:CYC:HMC1	1.94	0.68
3:Z1:126:SER:OG	11:Z1:201:CYC:HMC1	1.94	0.68
11:R2:201:CYC:NB	11:R2:201:CYC:HMA1	2.09	0.68
5:03:288:ARG:HH22	5:03:328:GLN:CD	2.02	0.68
8:c3:67:ARG:CB	1:A6:213:GLY:HA3	2.23	0.68
7:w3:69:GLY:CA	7:O7:63:PRO:HD2	2.22	0.68
2:H4:2:LYS:H	2:H4:105:GLY:HA3	1.58	0.68
3:M4:127:VAL:HG22	11:M4:202:CYC:HBC2	1.73	0.68
11:P4:203:CYC:CGA	2:Q4:86:ARG:HH12	2.05	0.68
3:R4:154:SER:O	3:R4:158:GLN:HB2	1.93	0.68
11:U4:201:CYC:H2A	3:Z4:67:ILE:HD12	1.57	0.68
2:W4:2:LYS:H	2:W4:105:GLY:HA3	1.58	0.68
3:Z4:143:MET:SD	3:Z4:157:GLN:HB2	2.33	0.68
2:F5:73:ASN:C	11:F5:201:CYC:HMD2	2.18	0.68
2:H5:24:LEU:CD1	11:I5:202:CYC:CBB	2.71	0.68
7:J7:72:ALA:HB2	11:J7:1001:CYC:OC	1.93	0.68
8:W7:126:THR:OG1	11:W7:1001:CYC:HMC1	1.92	0.68
2:F8:2:LYS:H	2:F8:105:GLY:HA3	1.58	0.68
2:H8:2:LYS:H	2:H8:105:GLY:HA3	1.58	0.68
2:H8:140:HIS:HD1	2:H8:142:LEU:CG	1.94	0.68
2:O8:21:ASN:HA	2:W8:152:ASN:ND2	2.05	0.68
2:Q8:15:GLN:NE2	2:Q8:17:ARG:NE	2.40	0.68
3:R8:154:SER:O	3:R8:158:GLN:HB2	1.93	0.68
2:W8:17:ARG:HB3	2:W8:17:ARG:HH11	1.56	0.68
3:X8:51:ILE:CD1	3:X8:141:ILE:HD11	2.15	0.68
2:O1:8:ALA:HB1	2:O1:23:GLU:HG3	1.74	0.68
2:Y1:8:ALA:HB1	2:Y1:23:GLU:HG3	1.74	0.68
11:X2:202:CYC:NB	11:X2:202:CYC:HMA1	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G3:71:ASN:OD1	11:G3:1001:CYC:HMD2	1.94	0.68
7:X3:71:ASN:OD1	11:X3:1001:CYC:HMD2	1.94	0.68
7:u3:3:ILE:CD1	7:O7:25:ARG:NH1	2.57	0.68
1:A4:203:PHE:HD2	1:A4:203:PHE:H	1.40	0.68
11:F4:201:CYC:CAB	2:J4:149:GLU:OE1	2.40	0.68
3:I4:139:VAL:CA	3:I4:142:VAL:HG12	2.23	0.68
11:P4:202:CYC:NB	11:P4:202:CYC:HMA1	2.09	0.68
2:Y4:134:LYS:HA	2:Y4:137:LYS:HG2	1.76	0.68
3:Z4:51:ILE:CD1	3:Z4:141:ILE:HD12	2.24	0.68
3:R5:126:SER:OG	11:R5:201:CYC:HMC1	1.94	0.68
3:R6:39:ASP:OD2	11:R6:201:CYC:HHB	1.92	0.68
3:X6:40:ALA:CB	11:X6:202:CYC:HBC1	2.22	0.68
11:E8:202:CYC:NB	11:E8:202:CYC:HMA1	2.09	0.68
3:M8:139:VAL:HA	3:M8:142:VAL:CG1	2.24	0.68
3:P8:139:VAL:HA	3:P8:142:VAL:HG12	1.76	0.68
2:Y8:134:LYS:HA	2:Y8:137:LYS:HG2	1.76	0.68
11:I1:201:CYC:HB	11:I1:201:CYC:HMA1	1.58	0.68
11:V1:202:CYC:HMD2	2:W1:73:ASN:C	2.18	0.68
11:X1:203:CYC:HAB1	2:Y1:111:LEU:HD21	1.75	0.68
11:E2:202:CYC:NB	11:E2:202:CYC:HMA1	2.08	0.68
3:T2:37:ARG:CA	3:T2:156:LEU:HD11	2.23	0.68
5:03:440:GLN:HE22	5:03:468:SER:CB	2.07	0.68
5:03:720:ASP:OD1	5:03:726:GLU:OE2	2.11	0.68
7:T3:5:THR:OG1	8:U3:3:ASP:OD2	2.12	0.68
10:m3:30:LEU:HD23	8:n3:34:GLY:HA3	1.75	0.68
7:u3:70:GLY:N	7:Q7:64:ASP:CG	2.51	0.68
7:w3:71:ASN:OD1	11:w3:1001:CYC:HMD2	1.94	0.68
2:J4:64:PRO:HB2	2:J5:58:ALA:N	2.09	0.68
2:J4:150:THR:O	2:J4:153:TYR:CB	2.42	0.68
2:L4:19:LEU:H	2:L4:19:LEU:CD2	2.06	0.68
2:U4:142:LEU:C	2:U4:147:ALA:HB2	2.18	0.68
2:B5:8:ALA:HB1	2:B5:23:GLU:HG3	1.74	0.68
11:X6:202:CYC:NB	11:X6:202:CYC:HMA1	2.08	0.68
3:C8:41:VAL:HG22	3:C8:97:THR:HG23	1.74	0.68
11:E8:203:CYC:CAB	2:F8:111:LEU:HD21	2.13	0.68
3:I8:137:ALA:O	3:I8:141:ILE:HG13	1.92	0.68
3:M8:41:VAL:HG22	3:M8:97:THR:HG23	1.74	0.68
2:Q8:40:ALA:HB2	2:Q8:145:ASP:OD1	1.94	0.68
11:A1:301:CYC:HMC1	3:C1:126:SER:OG	1.94	0.68
11:C1:202:CYC:HBB1	2:D1:94:MET:CE	2.22	0.68
2:F1:111:LEU:HD21	11:F1:201:CYC:HAB1	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:111:LEU:HD21	11:H1:201:CYC:HAB1	1.75	0.68
11:N1:301:CYC:HMC1	3:T1:126:SER:OG	1.94	0.68
11:M2:202:CYC:NB	11:M2:202:CYC:HMA1	2.08	0.68
11:T2:202:CYC:NB	11:T2:202:CYC:HMA1	2.08	0.68
5:03:462:THR:HA	8:M3:114:GLU:HG2	1.76	0.68
11:C4:201:CYC:NB	11:C4:201:CYC:HMA1	2.09	0.68
2:W4:151:ASN:N	2:W4:151:ASN:HD22	1.90	0.68
2:F5:28:TYR:HH	11:G5:202:CYC:HB	1.38	0.68
2:H5:24:LEU:HD13	11:I5:202:CYC:HBB2	1.76	0.68
2:O5:24:LEU:HD12	11:P5:202:CYC:CBB	2.24	0.68
11:E6:202:CYC:NB	11:E6:202:CYC:HMA1	2.09	0.68
7:Q7:81:CYS:HG	11:Q7:1001:CYC:HAC2	1.58	0.68
8:W7:13:ASP:OD2	6:b7:63:ASN:ND2	2.27	0.68
2:F8:24:LEU:HD11	3:G8:39:ASP:CB	2.23	0.68
2:W8:151:ASN:N	2:W8:151:ASN:HD22	1.91	0.68
11:X8:202:CYC:NB	11:X8:202:CYC:HMA1	2.08	0.68
11:C1:202:CYC:HAA1	2:D1:122:PHE:CE2	2.25	0.67
3:G1:82:CYS:HG	11:G1:201:CYC:HC	1.39	0.67
3:K1:126:SER:OG	11:K1:201:CYC:HMC1	1.94	0.67
2:O1:111:LEU:HD21	11:O1:201:CYC:HAB2	1.73	0.67
3:V1:82:CYS:HG	11:V1:201:CYC:HC	1.39	0.67
7:i3:71:ASN:OD1	11:i3:1001:CYC:HMD2	1.94	0.67
8:t3:62:TYR:CZ	1:A4:203:PHE:HB3	2.28	0.67
3:I4:139:VAL:CA	3:I4:142:VAL:HG13	2.20	0.67
11:K4:202:CYC:NB	11:K4:202:CYC:HMA1	2.08	0.67
2:O4:21:ASN:CB	2:W4:152:ASN:HD22	1.88	0.67
3:R4:67:ILE:CD1	11:S4:201:CYC:O2A	2.41	0.67
2:U5:73:ASN:C	11:U5:201:CYC:HMD2	2.18	0.67
11:T6:201:CYC:HMA1	11:T6:201:CYC:NB	2.08	0.67
3:Z6:33:GLU:HB2	3:Z6:36:LYS:HE3	1.75	0.67
7:V7:72:ALA:HB2	11:V7:1001:CYC:OC	1.93	0.67
11:I8:202:CYC:NB	11:I8:202:CYC:HMA1	2.09	0.67
3:K8:151:GLY:HA3	11:K8:202:CYC:HMD1	1.74	0.67
2:O8:24:LEU:CB	11:P8:202:CYC:CBB	2.72	0.67
11:R8:201:CYC:NB	11:R8:201:CYC:HMA1	2.08	0.67
11:M1:201:CYC:HB	11:M1:201:CYC:HMA1	1.58	0.67
3:R1:126:SER:OG	11:R1:201:CYC:HMC1	1.94	0.67
11:C2:202:CYC:NB	11:C2:202:CYC:HMA1	2.09	0.67
3:R2:37:ARG:CA	3:R2:156:LEU:HD11	2.23	0.67
5:13:294:TYR:OH	8:h3:83:ARG:NH2	2.26	0.67
5:13:524:SER:O	7:J7:106:GLU:OE2	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b3:71:ASN:OD1	11:b3:1001:CYC:HMD2	1.94	0.67
7:k3:71:ASN:OD1	11:k3:1001:CYC:HMD2	1.94	0.67
7:o3:154:ASP:OD2	8:W7:46:ALA:CB	2.33	0.67
2:H4:86:ARG:HH12	11:M4:201:CYC:CGA	2.05	0.67
3:M4:139:VAL:HA	3:M4:142:VAL:CG1	2.23	0.67
3:V4:151:GLY:HA3	11:V4:202:CYC:HMD1	0.69	0.67
1:A5:211:GLN:HA	1:A5:211:GLN:NE2	2.08	0.67
11:B5:201:CYC:O2D	3:G5:57:ARG:CZ	2.42	0.67
11:H5:201:CYC:O2D	3:M5:57:ARG:CZ	2.43	0.67
3:I5:126:SER:OG	11:I5:201:CYC:HMC1	1.94	0.67
2:O5:111:LEU:HD21	11:O5:201:CYC:HAB1	1.75	0.67
11:V5:202:CYC:HBB1	2:W5:94:MET:CE	2.22	0.67
11:X5:203:CYC:HMD2	2:Y5:73:ASN:C	2.18	0.67
3:Z6:33:GLU:HA	3:Z6:36:LYS:HE2	1.77	0.67
3:I8:139:VAL:HA	3:I8:142:VAL:HG12	1.70	0.67
11:X1:203:CYC:HAB2	2:Y1:111:LEU:HD21	1.73	0.67
7:N3:71:ASN:OD1	11:N3:1001:CYC:HMD2	1.94	0.67
7:q3:51:ILE:CD1	1:A8:218:PHE:HZ	2.07	0.67
7:q3:71:ASN:OD1	11:q3:1001:CYC:HMD2	1.94	0.67
7:q3:161:GLU:O	8:a7:49:ALA:HB2	1.93	0.67
7:u3:77:MET:HE2	1:A8:201:ARG:HB3	1.76	0.67
7:u3:113:ARG:HD3	7:Q7:117:LYS:CE	2.22	0.67
2:B4:2:LYS:H	2:B4:105:GLY:HA3	1.58	0.67
11:Z4:202:CYC:NB	11:Z4:202:CYC:HMA1	2.08	0.67
11:G6:201:CYC:NB	11:G6:201:CYC:HMA1	2.08	0.67
7:O7:72:ALA:HB2	11:O7:1001:CYC:OC	1.93	0.67
2:Q8:8:ALA:HB1	2:Q8:23:GLU:HG3	1.76	0.67
2:U8:2:LYS:H	2:U8:105:GLY:HA3	1.58	0.67
3:I1:126:SER:OG	11:I1:201:CYC:HMC1	1.94	0.67
2:L1:24:LEU:CD1	11:M1:202:CYC:CBB	2.72	0.67
11:U1:201:CYC:O2D	3:Z1:57:ARG:NH1	2.26	0.67
5:03:746:TYR:OH	11:z3:1001:CYC:O2A	2.13	0.67
7:I3:30:VAL:HG21	8:J3:34:GLY:HA3	1.76	0.67
7:K3:71:ASN:OD1	11:K3:1001:CYC:HMD2	1.94	0.67
9:Q3:102:MET:HE3	9:Q3:155:GLU:HG2	1.77	0.67
7:q3:25:ARG:CG	7:Z7:25:ARG:CD	2.72	0.67
7:q3:113:ARG:NH1	7:V7:117:LYS:CG	2.57	0.67
2:O4:24:LEU:CB	11:P4:202:CYC:CBB	2.72	0.67
3:R4:41:VAL:HG22	3:R4:97:THR:HG23	1.74	0.67
2:W4:17:ARG:HB3	2:W4:17:ARG:HH11	1.56	0.67
11:A5:301:CYC:HMC1	3:C5:126:SER:OG	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F5:111:LEU:HD21	11:F5:201:CYC:HAB2	1.73	0.67
3:K5:126:SER:OG	11:K5:201:CYC:HMC1	1.94	0.67
3:M5:126:SER:OG	11:M5:201:CYC:HMC1	1.94	0.67
3:X5:69:PRO:HB2	3:Z5:16:GLY:HA3	1.77	0.67
4:N6:3:VAL:HG12	3:R6:120:LEU:HD21	1.77	0.67
3:R6:57:ARG:NH2	11:R6:202:CYC:O1A	2.27	0.67
2:Y6:28:TYR:CE2	11:Z6:202:CYC:HMD2	2.28	0.67
11:N8:301:CYC:CMB	3:R8:113:LEU:HD13	2.25	0.67
11:T8:202:CYC:OB	2:Y8:32:ARG:NE	2.28	0.67
2:W8:140:HIS:ND1	2:W8:142:LEU:HG	2.10	0.67
2:O1:24:LEU:HD12	11:P1:202:CYC:CBB	2.24	0.67
2:Q1:73:ASN:C	11:Q1:201:CYC:HMD2	2.18	0.67
3:X1:69:PRO:HB2	3:Z1:16:GLY:HA3	1.77	0.67
7:R3:71:ASN:OD1	11:R3:1001:CYC:HMD2	1.94	0.67
2:B4:86:ARG:HH22	11:G4:201:CYC:H2A	1.39	0.67
3:C4:42:SER:O	3:C4:45:THR:HG22	1.78	0.67
2:L4:149:GLU:CG	2:L4:153:TYR:CE2	2.46	0.67
2:W4:150:THR:HG22	2:W4:154:ILE:HD12	1.76	0.67
11:A5:302:CYC:HMC1	3:E5:126:SER:OG	1.94	0.67
3:C5:153:CYS:SG	11:C5:201:CYC:HAC2	2.35	0.67
11:C5:202:CYC:HAB1	2:D5:111:LEU:HD21	1.75	0.67
11:C6:202:CYC:HMA1	11:C6:202:CYC:NB	2.09	0.67
3:R6:111:ASN:OD1	3:R6:111:ASN:N	2.28	0.67
7:X7:72:ALA:HB2	11:X7:1001:CYC:OC	1.93	0.67
7:X7:117:LYS:HA	7:X7:117:LYS:CE	2.25	0.67
2:H8:23:GLU:O	2:H8:26:TYR:HB2	1.95	0.67
2:O8:24:LEU:HB3	11:P8:202:CYC:CBB	2.24	0.67
3:R8:51:ILE:CD1	3:R8:141:ILE:HD12	2.17	0.67
2:Y8:149:GLU:O	2:Y8:153:TYR:CG	2.46	0.67
1:A1:211:GLN:O	1:A1:214:ASP:CG	2.38	0.67
11:C1:202:CYC:HAB1	2:D1:111:LEU:HD21	1.75	0.67
11:V1:202:CYC:HAA1	2:W1:122:PHE:CE2	2.25	0.67
3:X1:153:CYS:SG	11:X1:202:CYC:HAC2	2.35	0.67
3:Z1:153:CYS:SG	11:Z1:202:CYC:HAC2	2.35	0.67
1:A2:196:TRP:HE3	7:N3:59:PHE:HD2	1.40	0.67
7:u3:71:ASN:OD1	11:u3:1001:CYC:HMD2	1.94	0.67
2:S4:33:GLN:NE2	2:S4:149:GLU:OE2	2.20	0.67
2:L5:24:LEU:CD1	11:M5:202:CYC:CBB	2.72	0.67
11:M6:202:CYC:NB	11:M6:202:CYC:HMA1	2.08	0.67
6:b7:17:ARG:NE	6:b7:21:GLU:OE2	2.27	0.67
3:K8:153:CYS:SG	11:K8:202:CYC:CAC	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T8:113:LEU:HD13	11:T8:201:CYC:CMB	2.25	0.67
11:V8:202:CYC:NB	11:V8:202:CYC:HMA1	2.09	0.67
2:H1:122:PHE:CE2	11:H1:201:CYC:HAA1	2.25	0.67
2:O1:73:ASN:C	11:O1:201:CYC:HMD2	2.18	0.67
3:C2:33:GLU:C	3:C2:36:LYS:HG2	2.19	0.67
3:G2:111:ASN:N	3:G2:111:ASN:OD1	2.28	0.67
11:Z2:203:CYC:NB	11:Z2:203:CYC:HMA1	2.08	0.67
5:13:768:GLU:OE2	6:b7:29:LYS:CE	2.43	0.67
7:o3:76:GLU:CG	1:A4:203:PHE:CE2	2.78	0.67
7:s3:71:ASN:OD1	11:s3:1001:CYC:HMD2	1.94	0.67
7:w3:113:ARG:NH1	7:O7:117:LYS:HG3	2.08	0.67
3:I4:113:LEU:HD13	11:I4:201:CYC:CMB	2.25	0.67
3:K4:153:CYS:SG	11:K4:202:CYC:CAC	2.83	0.67
2:Y4:86:ARG:HH12	11:Y4:201:CYC:CGA	2.05	0.67
11:M5:201:CYC:HMA1	11:M5:201:CYC:HB	1.58	0.67
3:P5:126:SER:OG	11:P5:201:CYC:HMC1	1.94	0.67
3:T5:153:CYS:SG	11:T5:201:CYC:HAC2	2.35	0.67
3:Z5:126:SER:OG	11:Z5:201:CYC:HMC1	1.94	0.67
3:C6:111:ASN:OD1	3:C6:111:ASN:N	2.28	0.67
6:b7:34:ASP:OD1	6:b7:34:ASP:N	2.26	0.67
2:D8:26:TYR:HE2	2:L8:4:PRO:HB3	1.60	0.67
3:G8:113:LEU:HD13	11:G8:202:CYC:CMB	2.25	0.67
2:J8:150:THR:O	2:J8:153:TYR:CB	2.42	0.67
2:S8:22:THR:HG22	2:Y8:4:PRO:HD3	1.76	0.67
2:B1:111:LEU:HD21	11:B1:201:CYC:HAB1	1.75	0.67
4:N1:247:SER:O	4:N1:250:ARG:NH1	2.28	0.67
3:V2:151:GLY:HA3	11:V2:202:CYC:HMD2	1.75	0.67
3:X2:150:SER:O	11:X2:202:CYC:CAD	2.43	0.67
2:O4:24:LEU:HB3	11:P4:202:CYC:CBB	2.24	0.67
11:R4:201:CYC:NB	11:R4:201:CYC:HMA1	2.08	0.67
11:T4:202:CYC:OB	2:Y4:32:ARG:NE	2.28	0.67
2:Y4:23:GLU:O	2:Y4:26:TYR:HB2	1.94	0.67
3:P5:153:CYS:SG	11:P5:202:CYC:HAC2	2.35	0.67
11:U6:201:CYC:O1A	3:Z6:57:ARG:NH1	2.27	0.67
2:B8:86:ARG:HH22	11:G8:201:CYC:H2A	1.43	0.67
2:D8:24:LEU:HD12	2:L8:152:ASN:ND2	2.09	0.67
3:I8:153:CYS:SG	11:I8:202:CYC:HBC2	2.35	0.67
2:J1:111:LEU:HD21	11:J1:201:CYC:HAB1	1.75	0.67
2:O1:24:LEU:HD13	11:P1:202:CYC:HBB2	1.77	0.67
1:A2:213:GLY:CA	8:H3:67:ARG:HD3	2.24	0.67
3:K2:150:SER:C	11:K2:202:CYC:HMD2	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P2:202:CYC:NB	11:P2:202:CYC:HMA1	2.09	0.67
3:T2:37:ARG:HA	3:T2:156:LEU:CD2	2.23	0.67
3:Z2:111:ASN:OD1	3:Z2:111:ASN:N	2.28	0.67
5:03:557:ILE:HD11	8:B7:83:ARG:CD	2.24	0.67
5:13:462:THR:HA	8:h3:114:GLU:HG2	1.75	0.67
6:33:44:MET:HB3	8:n3:107:ARG:HG2	1.76	0.67
7:Z3:113:ARG:HD2	7:H7:117:LYS:NZ	2.10	0.67
7:d3:86:ASP:OD2	1:A6:206:PRO:HD3	1.91	0.67
2:H4:23:GLU:O	2:H4:26:TYR:HB2	1.95	0.67
2:Q4:15:GLN:NE2	2:Q4:17:ARG:NE	2.40	0.67
2:Q4:40:ALA:HB2	2:Q4:145:ASP:OD1	1.94	0.67
2:U4:18:PHE:HE1	3:V4:91:ARG:HA	1.58	0.67
11:C5:202:CYC:HAA1	2:D5:122:PHE:CE2	2.25	0.67
3:G5:153:CYS:SG	11:G5:202:CYC:HAC2	2.35	0.67
2:H5:111:LEU:HD21	11:H5:201:CYC:HAB1	1.75	0.67
11:N5:301:CYC:HMC1	3:T5:126:SER:OG	1.94	0.67
11:V5:202:CYC:CAC	2:W5:84:CYS:HA	2.18	0.67
11:X5:203:CYC:HAA1	2:Y5:122:PHE:CE2	2.25	0.67
3:I6:40:ALA:O	3:I6:44:MET:N	2.27	0.67
3:X6:40:ALA:HB2	11:X6:202:CYC:HBC1	1.69	0.67
2:Q8:24:LEU:HB2	11:R8:201:CYC:HBB2	1.77	0.67
2:F1:28:TYR:OH	11:G1:202:CYC:C4B	2.43	0.67
3:M1:126:SER:OG	11:M1:201:CYC:HMC1	1.94	0.67
11:U1:202:CYC:HAC2	3:V1:153:CYS:SG	2.35	0.67
11:V1:202:CYC:HAB2	2:W1:111:LEU:HD23	1.77	0.67
2:J2:24:LEU:CB	11:K2:202:CYC:HBB1	2.21	0.67
2:S2:122:PHE:CE2	11:S2:201:CYC:HAA1	2.11	0.67
6:23:64:THR:HG22	7:R3:106:GLU:HB3	1.77	0.67
7:I3:71:ASN:OD1	11:I3:1001:CYC:HMD2	1.94	0.67
8:c3:81:CYS:SG	11:c3:1001:CYC:CBC	2.83	0.67
7:o3:59:PHE:CZ	7:o3:78:THR:HG22	2.30	0.67
2:B4:150:THR:O	2:B4:154:ILE:N	2.24	0.67
11:E4:202:CYC:NB	11:E4:202:CYC:HMA1	2.09	0.67
3:I4:153:CYS:SG	11:I4:202:CYC:HBC2	2.35	0.67
2:J4:64:PRO:CD	2:J5:61:SER:OG	2.43	0.67
3:M4:154:SER:O	3:M4:158:GLN:HB2	1.95	0.67
3:P4:139:VAL:HA	3:P4:142:VAL:HG12	1.76	0.67
2:Q4:36:PHE:CG	2:Q4:145:ASP:HB3	2.28	0.67
2:S4:150:THR:HG22	2:S4:154:ILE:HD12	1.77	0.67
2:H5:111:LEU:HD23	11:H5:201:CYC:HAB2	1.77	0.67
3:K5:84:ARG:HD2	4:N5:251:TYR:CG	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V5:126:SER:OG	11:V5:201:CYC:HMC1	1.94	0.67
3:C6:36:LYS:HD2	11:C6:202:CYC:O1D	1.95	0.67
3:X6:57:ARG:O	3:X6:57:ARG:HD3	1.95	0.67
7:X7:64:ASP:OD2	7:X7:65:VAL:N	2.28	0.67
2:B8:27:LEU:HD12	3:C8:98:PHE:CE2	2.30	0.67
3:M8:154:SER:O	3:M8:158:GLN:HB2	1.95	0.67
2:Y8:2:LYS:H	2:Y8:105:GLY:HA3	1.58	0.67
11:D1:201:CYC:HAC2	3:E1:153:CYS:SG	2.35	0.66
2:L1:122:PHE:CE2	11:L1:201:CYC:HAA1	2.25	0.66
3:P1:153:CYS:SG	11:P1:202:CYC:HAC2	2.35	0.66
5:03:288:ARG:NH2	5:03:328:GLN:CD	2.53	0.66
8:U3:81:CYS:SG	11:U3:1001:CYC:CBC	2.83	0.66
7:X3:66:VAL:CG1	1:A6:227:ILE:CG2	2.73	0.66
7:f3:71:ASN:OD1	11:f3:1001:CYC:HMD2	1.94	0.66
8:j3:81:CYS:SG	11:j3:1001:CYC:CBC	2.84	0.66
8:r3:81:CYS:SG	11:r3:1001:CYC:CBC	2.83	0.66
8:t3:46:ALA:CB	7:X7:154:ASP:OD1	2.43	0.66
3:E4:153:CYS:SG	11:E4:202:CYC:CMC	2.83	0.66
3:G4:113:LEU:HD13	11:G4:202:CYC:CMB	2.25	0.66
3:I4:113:LEU:CD1	11:I4:201:CYC:HMB3	2.26	0.66
2:J4:140:HIS:ND1	2:J4:142:LEU:HG	2.10	0.66
2:S4:22:THR:HG22	2:Y4:4:PRO:HD3	1.76	0.66
11:C5:202:CYC:HAB2	2:D5:111:LEU:HD23	1.77	0.66
2:L5:111:LEU:HD23	11:L5:201:CYC:HAB2	1.77	0.66
3:C6:32:ALA:O	3:C6:36:LYS:HE3	1.95	0.66
3:X6:150:SER:O	11:X6:202:CYC:CAD	2.43	0.66
11:A8:301:CYC:CMB	3:C8:113:LEU:HD13	2.25	0.66
3:M8:7:ARG:HH11	3:T8:169:LYS:HE2	1.58	0.66
3:X8:113:LEU:HD13	11:X8:201:CYC:CMB	2.25	0.66
2:Y8:23:GLU:O	2:Y8:26:TYR:HB2	1.94	0.66
3:Z8:151:GLY:CA	11:Z8:202:CYC:OB	2.43	0.66
11:A1:302:CYC:HMC1	3:E1:126:SER:OG	1.94	0.66
2:Q1:122:PHE:CE2	11:Q1:201:CYC:HAA1	2.25	0.66
3:R1:153:CYS:SG	11:R1:202:CYC:HAC2	2.35	0.66
2:S1:111:LEU:HD23	11:S1:201:CYC:HAB2	1.77	0.66
3:T2:153:CYS:SG	11:T2:202:CYC:HBC1	2.35	0.66
5:13:557:ILE:HG23	11:I7:1001:CYC:HMA3	1.75	0.66
2:B4:99:LEU:HD11	2:B4:149:GLU:OE2	1.94	0.66
3:K4:11:GLN:HG2	3:P4:125:ALA:HB1	1.77	0.66
2:L4:2:LYS:H	2:L4:105:GLY:HA3	1.58	0.66
3:M4:143:MET:HE3	3:M4:157:GLN:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q4:24:LEU:HB2	11:R4:201:CYC:HBB2	1.77	0.66
2:Y4:36:PHE:CD2	2:Y4:145:ASP:CB	2.79	0.66
3:Z5:153:CYS:SG	11:Z5:202:CYC:HAC2	2.35	0.66
3:K6:150:SER:C	11:K6:202:CYC:HMD2	2.20	0.66
3:P6:57:ARG:HH22	2:Q6:72:ASN:CB	2.05	0.66
11:Z6:202:CYC:NB	11:Z6:202:CYC:HMA1	2.08	0.66
1:A8:133:GLY:HA3	2:B8:14:SER:O	1.95	0.66
2:B1:122:PHE:CE2	11:B1:201:CYC:HAA1	2.25	0.66
11:B1:201:CYC:O2D	3:G1:57:ARG:CZ	2.42	0.66
3:C1:153:CYS:SG	11:C1:201:CYC:HAC2	2.35	0.66
2:H1:94:MET:CE	11:H1:201:CYC:HBB1	2.22	0.66
3:M1:153:CYS:SG	11:M1:202:CYC:HAC2	2.35	0.66
2:O2:28:TYR:HE2	11:P2:202:CYC:HMA3	1.58	0.66
5:13:690:THR:OG1	8:r3:67:ARG:NH2	2.26	0.66
7:K3:68:PRO:O	7:A7:63:PRO:CG	2.41	0.66
8:M3:81:CYS:SG	11:M3:201:CYC:CBC	2.83	0.66
8:Y3:46:ALA:HB2	7:H7:154:ASP:OD1	1.95	0.66
9:g3:102:MET:HE3	9:g3:155:GLU:HG2	1.77	0.66
8:p3:81:CYS:SG	11:p3:1001:CYC:CBC	2.83	0.66
3:C4:57:ARG:HH12	2:D4:72:ASN:HD22	1.43	0.66
3:P4:113:LEU:CD1	11:P4:201:CYC:HMB3	2.26	0.66
3:K6:149:THR:HG1	11:K6:202:CYC:C3D	2.07	0.66
3:E8:113:LEU:HD13	11:E8:201:CYC:CMB	2.25	0.66
3:I8:113:LEU:HD13	11:I8:201:CYC:CMB	2.25	0.66
3:M8:113:LEU:CD1	11:M8:202:CYC:HMB3	2.26	0.66
3:P8:113:LEU:HD13	11:P8:201:CYC:CMB	2.25	0.66
2:Q8:36:PHE:CG	2:Q8:145:ASP:HB3	2.28	0.66
3:X8:113:LEU:CD1	11:X8:201:CYC:HMB3	2.26	0.66
2:Y8:149:GLU:CA	2:Y8:153:TYR:HD2	2.09	0.66
2:H1:24:LEU:HD13	11:I1:202:CYC:HBB2	1.76	0.66
3:T1:153:CYS:SG	11:T1:201:CYC:HAC2	2.35	0.66
3:X1:126:SER:OG	11:X1:201:CYC:HMC1	1.94	0.66
5:03:746:TYR:OH	8:z3:83:ARG:NH2	2.27	0.66
11:13:903:CYC:CBC	8:a3:81:CYS:SG	2.83	0.66
11:R3:1001:CYC:O1A	8:W3:66:THR:HB	1.95	0.66
7:o3:83:ARG:HH11	1:A5:215:PRO:HD3	1.61	0.66
3:K4:113:LEU:CD1	11:K4:201:CYC:HMB3	2.25	0.66
3:M4:113:LEU:HD13	11:M4:202:CYC:CMB	2.25	0.66
3:P4:113:LEU:HD13	11:P4:201:CYC:CMB	2.25	0.66
3:T4:113:LEU:HD13	11:T4:201:CYC:CMB	2.25	0.66
3:I5:153:CYS:SG	11:I5:202:CYC:HAC2	2.35	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N5:247:SER:O	4:N5:250:ARG:NH1	2.28	0.66
2:D6:24:LEU:HB2	11:E6:202:CYC:HBB1	1.76	0.66
2:U8:18:PHE:HE1	3:V8:91:ARG:HA	1.58	0.66
3:V8:113:LEU:CD1	11:V8:201:CYC:HMB3	2.26	0.66
3:G1:153:CYS:SG	11:G1:202:CYC:HAC2	2.35	0.66
11:H1:201:CYC:O2D	3:M1:57:ARG:CZ	2.43	0.66
3:I1:153:CYS:SG	11:I1:202:CYC:HAC2	2.35	0.66
3:K1:153:CYS:SG	11:K1:202:CYC:HAC2	2.35	0.66
2:D2:24:LEU:HB2	11:E2:202:CYC:HBB1	1.76	0.66
3:E2:111:ASN:OD1	3:E2:111:ASN:N	2.28	0.66
3:V2:57:ARG:HA	3:V2:57:ARG:HE	1.59	0.66
3:Z2:33:GLU:HA	3:Z2:36:LYS:HE2	1.77	0.66
5:03:489:ASN:ND2	8:L3:83:ARG:HH12	1.93	0.66
11:03:902:CYC:CBC	8:L3:81:CYS:SG	2.83	0.66
5:13:725:VAL:CG1	7:X7:105:GLU:OE2	2.41	0.66
7:T3:71:ASN:OD1	11:T3:1001:CYC:HMD2	1.94	0.66
2:B4:153:TYR:CE2	2:H4:21:ASN:ND2	2.63	0.66
3:C4:57:ARG:NH1	2:D4:72:ASN:HB3	2.10	0.66
2:D4:26:TYR:HE2	2:L4:4:PRO:HB3	1.60	0.66
11:F4:201:CYC:CMC	3:G4:143:MET:O	2.43	0.66
2:H4:111:LEU:CD2	11:M4:201:CYC:HAB2	2.18	0.66
3:V4:113:LEU:HD13	11:V4:201:CYC:CMB	2.25	0.66
2:Y4:149:GLU:CA	2:Y4:153:TYR:HD2	2.09	0.66
3:M6:106:ASN:HA	3:M6:110:LEU:HD12	1.77	0.66
3:T6:153:CYS:SG	11:T6:201:CYC:HBC1	2.35	0.66
11:U6:201:CYC:CGA	3:Z6:57:ARG:HH12	2.08	0.66
2:B8:153:TYR:CE2	2:H8:21:ASN:ND2	2.63	0.66
3:K8:138:ALA:O	3:K8:142:VAL:HG12	1.94	0.66
3:K8:143:MET:CA	3:K8:143:MET:HE2	2.26	0.66
11:N8:301:CYC:HMB3	3:R8:113:LEU:CD1	2.26	0.66
2:O8:19:LEU:HD22	2:O8:19:LEU:N	2.01	0.66
3:P8:36:LYS:C	3:P8:156:LEU:HD11	2.20	0.66
2:S8:22:THR:HG23	2:Y8:103:GLY:CA	2.26	0.66
2:O1:122:PHE:CE2	11:O1:201:CYC:HAA1	2.25	0.66
3:R2:37:ARG:HA	3:R2:156:LEU:HD21	1.76	0.66
7:X3:117:LYS:NZ	7:J7:113:ARG:CZ	2.56	0.66
7:u3:113:ARG:NH1	7:Q7:117:LYS:CE	2.58	0.66
8:z3:81:CYS:SG	11:z3:1001:CYC:CBC	2.83	0.66
2:B4:149:GLU:CG	2:B4:153:TYR:CD2	2.69	0.66
3:G4:113:LEU:CD1	11:G4:202:CYC:HMB3	2.26	0.66
3:K4:138:ALA:O	3:K4:142:VAL:HG12	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R4:67:ILE:HD12	2:S4:86:ARG:HH22	1.61	0.66
3:K5:153:CYS:SG	11:K5:202:CYC:HAC2	2.35	0.66
2:O5:84:CYS:HA	11:O5:201:CYC:CAC	2.17	0.66
2:Q5:28:TYR:HH	11:R5:202:CYC:HB	1.41	0.66
2:U5:94:MET:CE	11:U5:201:CYC:HBB1	2.22	0.66
3:X5:153:CYS:SG	11:X5:202:CYC:HAC2	2.35	0.66
2:F8:36:PHE:CZ	2:F8:149:GLU:OE2	2.43	0.66
2:S8:33:GLN:NE2	2:S8:149:GLU:OE2	2.20	0.66
1:A1:201:ARG:CB	7:q3:77:MET:CE	2.43	0.66
3:G1:126:SER:OG	11:G1:201:CYC:HMC1	1.94	0.66
3:P1:126:SER:OG	11:P1:201:CYC:HMC1	1.94	0.66
2:U1:111:LEU:HD23	11:U1:201:CYC:HAB2	1.77	0.66
3:M2:106:ASN:HA	3:M2:110:LEU:HD12	1.77	0.66
4:N2:3:VAL:HG12	3:R2:120:LEU:HD21	1.77	0.66
3:Z2:57:ARG:NH2	11:Z2:201:CYC:O1A	2.28	0.66
8:S3:81:CYS:SG	11:S3:1001:CYC:CBC	2.83	0.66
7:o3:73:TYR:O	7:o3:77:MET:HG2	1.95	0.66
8:v3:81:CYS:SG	11:v3:1001:CYC:CBC	2.83	0.66
8:z3:58:LYS:O	1:A8:206:PRO:HG3	1.96	0.66
1:A4:133:GLY:HA3	2:B4:14:SER:O	1.95	0.66
3:E4:39:ASP:OD2	11:E4:202:CYC:CMB	2.44	0.66
2:S4:111:LEU:CD2	11:S4:201:CYC:HAB2	2.18	0.66
11:D5:201:CYC:HAC2	3:E5:153:CYS:SG	2.35	0.66
2:F5:28:TYR:OH	11:G5:202:CYC:C4B	2.43	0.66
3:M5:153:CYS:SG	11:M5:202:CYC:HAC2	2.35	0.66
2:O5:111:LEU:HD23	11:O5:201:CYC:HAB2	1.77	0.66
3:R5:153:CYS:SG	11:R5:202:CYC:HAC2	2.35	0.66
11:V5:202:CYC:HAB1	2:W5:111:LEU:HD21	1.75	0.66
3:R6:37:ARG:HA	3:R6:156:LEU:HD21	1.76	0.66
3:R6:153:CYS:SG	3:R6:156:LEU:CB	2.84	0.66
3:V6:57:ARG:NH1	11:W6:201:CYC:O1A	2.27	0.66
2:B8:19:LEU:HD23	3:C8:95:TYR:HE1	1.57	0.66
2:D8:33:GLN:CG	2:D8:149:GLU:OE2	2.44	0.66
3:E8:113:LEU:CD1	11:E8:201:CYC:HMB3	2.26	0.66
3:K8:113:LEU:HD13	11:K8:201:CYC:CMB	2.25	0.66
3:M8:113:LEU:HD13	11:M8:202:CYC:CMB	2.25	0.66
2:Q8:36:PHE:CZ	2:Q8:149:GLU:HG2	2.31	0.66
2:S8:150:THR:O	2:S8:153:TYR:HB2	1.95	0.66
2:F1:111:LEU:HD23	11:F1:201:CYC:HAB2	1.77	0.66
2:J1:111:LEU:HD21	11:J1:201:CYC:HAB2	1.72	0.66
2:O1:111:LEU:HD23	11:O1:201:CYC:HAB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:200:VAL:HG21	7:N3:56:ASP:OD2	1.95	0.66
3:V2:57:ARG:CZ	2:W2:122:PHE:CZ	2.73	0.66
11:A4:301:CYC:CMB	3:C4:113:LEU:HD13	2.25	0.66
3:E4:113:LEU:HD13	11:E4:201:CYC:CMB	2.25	0.66
3:K4:113:LEU:HD13	11:K4:201:CYC:CMB	2.25	0.66
3:M4:113:LEU:CD1	11:M4:202:CYC:HMB3	2.26	0.66
4:N4:45:ASN:ND2	4:N4:175:ALA:O	2.28	0.66
2:S4:22:THR:HG23	2:Y4:103:GLY:CA	2.26	0.66
11:U5:202:CYC:HAC2	3:V5:153:CYS:SG	2.35	0.66
3:T6:111:ASN:OD1	3:T6:111:ASN:N	2.28	0.66
2:B8:32:ARG:NH2	11:I8:202:CYC:HBA2	2.10	0.66
2:O8:21:ASN:CB	2:W8:152:ASN:HD22	1.88	0.66
2:Q8:18:PHE:HD2	3:R8:45:THR:HG1	0.67	0.66
3:K1:57:ARG:HH22	11:L1:201:CYC:CGD	2.09	0.66
2:Q1:94:MET:CE	11:Q1:201:CYC:HBB1	2.22	0.66
11:X1:203:CYC:HAB2	2:Y1:111:LEU:HD23	1.77	0.66
5:03:512:ASN:CB	6:G7:23:GLN:HE22	2.07	0.66
5:13:768:GLU:OE2	6:b7:29:LYS:CD	2.44	0.66
11:13:904:CYC:CBC	8:h3:81:CYS:SG	2.83	0.66
7:X3:151:ALA:CB	7:H7:20:PRO:CB	2.64	0.66
8:e3:81:CYS:SG	11:e3:1001:CYC:CBC	2.83	0.66
7:w3:73:TYR:HE2	1:A5:196:TRP:HB3	1.61	0.66
3:C4:43:ARG:HH22	3:C4:148:VAL:CB	2.09	0.66
11:E4:203:CYC:HAB2	2:F4:111:LEU:CD2	2.18	0.66
3:I4:84:ARG:CZ	11:I4:201:CYC:O2A	2.44	0.66
3:K4:143:MET:HE2	3:K4:143:MET:CA	2.26	0.66
3:M4:84:ARG:CZ	11:M4:202:CYC:O2A	2.44	0.66
2:S4:19:LEU:HD22	3:T4:95:TYR:HE1	1.61	0.66
2:W4:140:HIS:ND1	2:W4:142:LEU:HG	2.10	0.66
2:B5:24:LEU:CD1	11:C5:201:CYC:HBB1	2.26	0.66
2:O5:24:LEU:HD13	11:P5:202:CYC:HBB2	1.77	0.66
2:O5:94:MET:CE	11:O5:201:CYC:HBB1	2.22	0.66
2:Q5:149:GLU:OE2	11:U5:202:CYC:CAB	2.34	0.66
11:V5:202:CYC:HAB2	2:W5:111:LEU:HD23	1.77	0.66
3:X5:126:SER:OG	11:X5:201:CYC:HMC1	1.94	0.66
2:Q6:24:LEU:HD13	11:R6:201:CYC:HBB3	1.78	0.66
3:Z6:33:GLU:CB	3:Z6:36:LYS:CE	2.74	0.66
3:K8:67:ILE:HD12	2:L8:86:ARG:NH2	2.11	0.66
3:M8:143:MET:HE3	3:M8:157:GLN:HB2	1.78	0.66
3:Z8:113:LEU:CD1	11:Z8:201:CYC:HMB3	2.26	0.66
2:J1:138:ALA:C	2:B8:64:PRO:HB3	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K1:84:ARG:CD	4:N1:251:TYR:CD2	2.79	0.66
11:X1:203:CYC:CAC	2:Y1:84:CYS:CA	2.74	0.66
3:R2:33:GLU:HB2	3:R2:36:LYS:HZ2	1.59	0.66
8:n3:81:CYS:SG	11:n3:1001:CYC:CBC	2.83	0.66
8:t3:81:CYS:SG	11:t3:1001:CYC:CBC	2.83	0.66
7:w3:82:LEU:C	1:A4:218:PHE:CD1	2.74	0.66
11:A4:301:CYC:HMB3	3:C4:113:LEU:CD1	2.25	0.66
2:B4:27:LEU:HD12	3:C4:98:PHE:CE2	2.30	0.66
3:V4:40:ALA:CB	3:V4:156:LEU:HD21	2.26	0.66
3:Z4:113:LEU:HD13	11:Z4:201:CYC:CMB	2.25	0.66
2:B5:111:LEU:HD23	11:B5:201:CYC:HAB2	1.77	0.66
11:X5:203:CYC:HAB2	2:Y5:111:LEU:HD23	1.77	0.66
2:B8:33:GLN:HG2	2:B8:149:GLU:OE2	1.96	0.66
2:L1:111:LEU:HD21	11:L1:201:CYC:HAB2	1.73	0.65
3:Z2:57:ARG:NH2	11:Z2:201:CYC:CGD	2.58	0.65
5:13:777:GLU:CG	7:V7:14:GLU:HG3	2.26	0.65
8:H3:81:CYS:SG	11:H3:1001:CYC:CBC	2.83	0.65
7:I3:113:ARG:CZ	7:C7:117:LYS:CE	2.62	0.65
8:l3:81:CYS:SG	11:l3:1001:CYC:CBC	2.83	0.65
3:G4:84:ARG:CZ	11:G4:202:CYC:O2A	2.44	0.65
3:T4:113:LEU:CD1	11:T4:201:CYC:HMB3	2.26	0.65
3:T4:139:VAL:CA	3:T4:142:VAL:HG13	2.26	0.65
2:W4:19:LEU:CD2	3:X4:95:TYR:HE1	2.09	0.65
3:X4:113:LEU:HD13	11:X4:201:CYC:CMB	2.25	0.65
2:B5:73:ASN:OD1	2:B5:73:ASN:N	2.28	0.65
11:C5:202:CYC:HBC3	2:D5:129:TYR:HE1	1.61	0.65
2:S5:24:LEU:CD1	11:T5:201:CYC:HBB1	2.26	0.65
3:C8:43:ARG:HH22	3:C8:148:VAL:CB	2.09	0.65
3:E8:153:CYS:SG	11:E8:202:CYC:CMC	2.83	0.65
2:F8:19:LEU:HD12	2:F8:23:GLU:OE2	1.96	0.65
2:L8:149:GLU:C	2:L8:153:TYR:HD2	2.04	0.65
5:03:288:ARG:CD	11:M3:201:CYC:O2A	2.44	0.65
5:03:523:VAL:C	7:C7:106:GLU:OE1	2.39	0.65
8:W3:81:CYS:SG	11:W3:1001:CYC:CBC	2.84	0.65
2:B4:152:ASN:HD21	2:H4:21:ASN:HA	1.62	0.65
2:D4:24:LEU:HD12	2:L4:152:ASN:ND2	2.09	0.65
2:L4:111:LEU:HD23	11:L4:201:CYC:CAB	2.18	0.65
11:N4:301:CYC:CMB	3:R4:113:LEU:HD13	2.25	0.65
11:U6:201:CYC:CGD	3:Z6:57:ARG:NH2	2.60	0.65
2:L8:134:LYS:HA	2:L8:137:LYS:CG	2.25	0.65
2:O8:22:THR:CG2	2:W8:102:GLY:C	2.69	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S8:150:THR:HG22	2:S8:154:ILE:HD12	1.77	0.65
2:W8:150:THR:HG22	2:W8:154:ILE:HD12	1.76	0.65
2:Y8:36:PHE:CD2	2:Y8:145:ASP:CB	2.79	0.65
2:F1:129:TYR:HE1	11:F1:201:CYC:HBC3	1.61	0.65
3:K1:84:ARG:HD2	4:N1:251:TYR:CG	2.30	0.65
2:Q1:111:LEU:HD23	11:Q1:201:CYC:HAB2	1.77	0.65
2:S1:24:LEU:CD1	11:T1:201:CYC:HBB1	2.26	0.65
3:P2:150:SER:C	11:P2:202:CYC:HMD2	2.21	0.65
3:V4:82:CYS:HG	11:V4:201:CYC:CAC	1.76	0.65
3:X4:143:MET:HE2	3:X4:143:MET:CA	2.16	0.65
1:A5:208:ARG:HA	1:A5:208:ARG:NE	2.10	0.65
2:U5:129:TYR:HE1	11:U5:201:CYC:HBC3	1.62	0.65
3:P6:57:ARG:CZ	2:Q6:72:ASN:ND2	2.59	0.65
8:D7:87:TYR:OH	6:G7:18:THR:O	2.14	0.65
2:B8:152:ASN:HD21	2:H8:21:ASN:HA	1.62	0.65
3:I8:113:LEU:CD1	11:I8:201:CYC:HMB3	2.26	0.65
3:K8:11:GLN:HG2	3:P8:125:ALA:HB1	1.77	0.65
3:V8:113:LEU:HD13	11:V8:201:CYC:CMB	2.25	0.65
3:X8:84:ARG:CZ	11:X8:201:CYC:O2A	2.44	0.65
2:Y8:19:LEU:H	2:Y8:19:LEU:CD2	2.09	0.65
2:Y8:149:GLU:CB	2:Y8:153:TYR:HD2	2.02	0.65
2:B1:111:LEU:HD23	11:B1:201:CYC:HAB2	1.77	0.65
11:C1:202:CYC:HBC3	2:D1:129:TYR:HE1	1.61	0.65
11:O1:201:CYC:O2D	3:T1:57:ARG:NH2	2.30	0.65
2:S1:129:TYR:HE1	11:S1:201:CYC:HBC3	1.61	0.65
2:U1:94:MET:CE	11:U1:201:CYC:HBB1	2.22	0.65
3:X1:57:ARG:HH22	11:X1:203:CYC:CGD	2.10	0.65
3:V2:111:ASN:OD1	3:V2:111:ASN:N	2.28	0.65
5:13:231:VAL:O	10:m3:117:ASN:ND2	2.29	0.65
7:I3:64:ASP:OD2	7:C7:70:GLY:CA	2.43	0.65
7:X3:151:ALA:CB	7:H7:20:PRO:HB2	2.22	0.65
8:c3:67:ARG:NH2	1:A6:214:ASP:CG	2.50	0.65
7:u3:69:GLY:CA	1:A8:196:TRP:CZ2	2.79	0.65
2:B4:32:ARG:NH2	11:I4:202:CYC:HBA2	2.10	0.65
2:F4:20:SER:OG	2:F4:21:ASN:N	2.28	0.65
3:P4:36:LYS:C	3:P4:156:LEU:HD11	2.20	0.65
2:Q4:36:PHE:CZ	2:Q4:149:GLU:HG2	2.31	0.65
2:S4:150:THR:O	2:S4:153:TYR:HB2	1.95	0.65
3:X4:113:LEU:CD1	11:X4:201:CYC:HMB3	2.26	0.65
3:G5:151:GLY:CA	11:G5:202:CYC:HMD2	2.27	0.65
2:J5:97:TYR:OH	3:K5:17:GLU:O	2.15	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E8:39:ASP:OD2	11:E8:202:CYC:CMB	2.44	0.65
2:L1:111:LEU:HD23	11:L1:201:CYC:HAB2	1.77	0.65
11:V1:202:CYC:CAC	2:W1:84:CYS:CA	2.74	0.65
3:C2:155:SER:O	3:C2:158:GLN:CB	2.45	0.65
5:03:632:ASP:OD2	6:G7:38:ARG:NH2	2.27	0.65
5:13:746:TYR:OH	11:t3:1001:CYC:O2A	2.15	0.65
7:o3:79:ALA:HB1	1:A5:218:PHE:C	2.21	0.65
1:A4:216:ALA:HB2	1:A5:203:PHE:CE1	2.28	0.65
3:E4:113:LEU:CD1	11:E4:201:CYC:HMB3	2.26	0.65
4:N4:263:VAL:HG21	4:N4:271:LYS:HG2	1.77	0.65
2:O4:22:THR:HG22	2:W4:102:GLY:C	2.12	0.65
2:Y4:137:LYS:HA	2:Y4:140:HIS:CD2	2.31	0.65
3:Z4:151:GLY:CA	11:Z4:202:CYC:OB	2.43	0.65
3:G5:126:SER:OG	11:G5:201:CYC:HMC1	1.94	0.65
2:J5:111:LEU:HD23	11:J5:201:CYC:HAB2	1.77	0.65
3:K5:151:GLY:CA	11:K5:202:CYC:HMD2	2.27	0.65
2:Q5:122:PHE:CE2	11:Q5:201:CYC:HAA1	2.25	0.65
3:C8:36:LYS:CE	3:C8:152:ASP:O	2.44	0.65
3:G8:84:ARG:CZ	11:G8:202:CYC:O2A	2.44	0.65
3:G8:113:LEU:CD1	11:G8:202:CYC:HMB3	2.26	0.65
11:N8:301:CYC:O2A	3:R8:84:ARG:CZ	2.44	0.65
3:T8:139:VAL:CA	3:T8:142:VAL:HG13	2.26	0.65
2:H1:111:LEU:HD23	11:H1:201:CYC:HAB2	1.77	0.65
2:J1:111:LEU:HD23	11:J1:201:CYC:HAB2	1.77	0.65
3:V2:148:VAL:HG12	11:V2:202:CYC:NC	2.11	0.65
7:X3:113:ARG:NE	7:J7:117:LYS:HZ2	1.95	0.65
7:w3:64:ASP:OD2	7:O7:69:GLY:C	2.39	0.65
8:x3:81:CYS:SG	11:x3:1001:CYC:CBC	2.83	0.65
3:G4:143:MET:HE2	3:G4:157:GLN:HB2	1.73	0.65
2:L4:149:GLU:C	2:L4:153:TYR:HD2	2.05	0.65
3:V4:84:ARG:CZ	11:V4:201:CYC:O2A	2.44	0.65
2:F5:111:LEU:HD23	11:F5:201:CYC:HAB2	1.77	0.65
3:R5:126:SER:OG	11:R5:201:CYC:CMC	2.45	0.65
2:D6:24:LEU:CB	11:E6:202:CYC:CBB	2.74	0.65
3:T6:145:PRO:HB3	11:T6:201:CYC:HMC3	1.79	0.65
3:Z6:33:GLU:HB2	3:Z6:36:LYS:CE	2.27	0.65
2:J8:140:HIS:ND1	2:J8:142:LEU:HG	2.10	0.65
3:R8:67:ILE:HD12	2:S8:86:ARG:HH22	1.61	0.65
1:A1:203:PHE:CB	7:q3:76:GLU:HB3	2.27	0.65
1:A1:203:PHE:HD2	1:A8:215:PRO:CG	2.08	0.65
11:A1:301:CYC:CMC	3:C1:126:SER:OG	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:129:TYR:HE1	11:H1:201:CYC:HBC3	1.61	0.65
3:M1:126:SER:OG	11:M1:201:CYC:CMC	2.45	0.65
3:P1:126:SER:OG	11:P1:201:CYC:CMC	2.45	0.65
2:S1:75:ALA:HB1	2:S1:81:LYS:HG2	1.79	0.65
2:D2:24:LEU:CB	11:E2:202:CYC:CBB	2.74	0.65
3:X2:151:GLY:CA	11:X2:202:CYC:HMD3	2.20	0.65
3:Z2:33:GLU:HB2	3:Z2:36:LYS:CE	2.27	0.65
8:M3:74:THR:HG22	7:N3:107:ILE:HG23	1.78	0.65
7:d3:47:ARG:NH2	1:A6:208:ARG:HH21	1.94	0.65
3:C4:36:LYS:CE	3:C4:152:ASP:O	2.44	0.65
11:N4:301:CYC:HMB3	3:R4:113:LEU:CD1	2.26	0.65
2:O4:19:LEU:H	2:O4:19:LEU:CD2	1.95	0.65
3:Z4:113:LEU:CD1	11:Z4:201:CYC:HMB3	2.26	0.65
3:C8:43:ARG:HH21	3:C8:148:VAL:HG11	1.47	0.65
11:F8:201:CYC:CMC	3:G8:143:MET:O	2.43	0.65
4:N8:2:PRO:HB3	3:R8:77:ARG:NH2	2.11	0.65
3:V8:67:ILE:HD12	2:W8:86:ARG:NH2	2.12	0.65
3:Z8:51:ILE:CD1	3:Z8:141:ILE:HD12	2.24	0.65
3:I1:126:SER:OG	11:I1:201:CYC:CMC	2.45	0.65
2:J1:97:TYR:OH	3:K1:17:GLU:O	2.15	0.65
4:N1:248:THR:HA	4:N1:250:ARG:HH12	1.62	0.65
3:V1:126:SER:OG	11:V1:201:CYC:CMC	2.45	0.65
3:Z1:126:SER:OG	11:Z1:201:CYC:CMC	2.45	0.65
2:H2:72:ASN:ND2	3:M2:57:ARG:NE	2.45	0.65
5:03:717:LYS:HG2	5:03:719:THR:HB	1.79	0.65
7:Z3:103:PRO:HA	9:g3:169:LEU:HD21	1.79	0.65
7:u3:70:GLY:HA3	7:Q7:64:ASP:OD1	1.96	0.65
3:E4:84:ARG:CZ	11:E4:201:CYC:O2A	2.44	0.65
2:F5:24:LEU:HD12	11:G5:202:CYC:HBB1	1.78	0.65
3:V5:57:ARG:HH12	11:V5:202:CYC:CGD	2.09	0.65
2:F8:28:TYR:HD2	2:J8:32:ARG:CZ	2.10	0.65
3:T8:113:LEU:CD1	11:T8:201:CYC:HMB3	2.26	0.65
2:W8:19:LEU:CD2	3:X8:95:TYR:HE1	2.09	0.65
3:Z8:113:LEU:HD13	11:Z8:201:CYC:CMB	2.25	0.65
2:F1:75:ALA:HB1	2:F1:81:LYS:HG2	1.79	0.65
2:J1:129:TYR:HE1	11:J1:201:CYC:HBC3	1.61	0.65
2:Q1:75:ALA:HB1	2:Q1:81:LYS:HG2	1.79	0.65
2:Q1:149:GLU:OE2	11:U1:202:CYC:CAB	2.34	0.65
3:I2:57:ARG:HA	3:I2:57:ARG:NE	2.07	0.65
5:03:440:GLN:OE1	5:03:468:SER:O	2.15	0.65
1:A4:203:PHE:CE1	1:A5:216:ALA:N	2.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O4:22:THR:CG2	2:W4:102:GLY:C	2.69	0.65
2:S4:66:THR:HG21	11:S4:201:CYC:HMC2	1.79	0.65
2:Y4:40:ALA:HB2	2:Y4:146:ALA:CB	2.27	0.65
3:Z4:153:CYS:O	3:Z4:157:GLN:N	2.28	0.65
11:A5:302:CYC:CMC	3:E5:126:SER:OG	2.45	0.65
2:O5:122:PHE:CE2	11:O5:201:CYC:HAA1	2.25	0.65
2:Q5:111:LEU:HD23	11:Q5:201:CYC:HAB2	1.77	0.65
3:G6:155:SER:O	3:G6:158:GLN:HB3	1.96	0.65
4:N6:212:ALA:HB3	4:N6:244:ALA:HB1	1.79	0.65
2:B8:149:GLU:CD	2:H8:21:ASN:HD21	2.04	0.65
2:D8:140:HIS:CE1	2:D8:142:LEU:H	2.15	0.65
3:G8:47:ASN:HD22	3:G8:141:ILE:HD13	1.62	0.65
3:I8:139:VAL:CA	3:I8:142:VAL:HG12	2.23	0.65
3:I8:151:GLY:HA3	11:I8:202:CYC:HMD2	1.78	0.65
3:K8:113:LEU:CD1	11:K8:201:CYC:HMB3	2.26	0.65
11:A1:302:CYC:CMC	3:E1:126:SER:OG	2.45	0.65
2:B1:111:LEU:HD21	11:B1:201:CYC:HAB2	1.72	0.65
11:N1:301:CYC:CMC	3:T1:126:SER:OG	2.45	0.65
3:P1:151:GLY:CA	11:P1:202:CYC:HMD2	2.27	0.65
2:U1:75:ALA:HB1	2:U1:81:LYS:HG2	1.79	0.65
3:I2:40:ALA:O	3:I2:44:MET:N	2.27	0.65
2:Q2:24:LEU:HD13	11:R2:201:CYC:HBB3	1.78	0.65
3:Z2:33:GLU:CB	3:Z2:36:LYS:CE	2.74	0.65
8:O3:81:CYS:SG	11:O3:1001:CYC:CBC	2.83	0.65
7:X3:66:VAL:HG11	1:A6:227:ILE:CG2	2.27	0.65
7:X3:113:ARG:NE	7:J7:117:LYS:NZ	2.44	0.65
7:w3:82:LEU:CD1	1:A4:221:MET:CE	2.18	0.65
11:E4:203:CYC:HMC2	2:F4:66:THR:HG21	1.79	0.65
3:K4:84:ARG:CZ	11:K4:201:CYC:O2A	2.44	0.65
2:L4:134:LYS:HA	2:L4:137:LYS:CG	2.25	0.65
2:U4:66:THR:HG21	11:U4:201:CYC:HMC2	1.79	0.65
3:V4:37:ARG:NH1	3:V4:159:GLU:OE2	2.30	0.65
3:V4:113:LEU:CD1	11:V4:201:CYC:HMB3	2.26	0.65
2:F5:122:PHE:CE2	11:F5:201:CYC:HAA1	2.25	0.65
2:H5:129:TYR:HE1	11:H5:201:CYC:HBC3	1.61	0.65
3:K5:57:ARG:HH22	11:L5:201:CYC:CGD	2.09	0.65
3:P5:126:SER:OG	11:P5:201:CYC:CMC	2.45	0.65
2:S5:84:CYS:HA	11:S5:201:CYC:CAC	2.18	0.65
11:V5:202:CYC:HAB2	2:W5:111:LEU:HD21	1.73	0.65
3:X5:57:ARG:HH22	11:X5:203:CYC:CGD	2.10	0.65
3:X5:126:SER:OG	11:X5:201:CYC:CMC	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B8:17:ARG:HB3	2:B8:17:ARG:NH1	2.12	0.65
2:L8:66:THR:HG21	11:L8:201:CYC:HMC2	1.79	0.65
4:N8:263:VAL:HG21	4:N8:271:LYS:HG2	1.77	0.65
2:O8:19:LEU:H	2:O8:19:LEU:CD2	1.95	0.65
2:U8:66:THR:HG21	11:U8:201:CYC:HMC2	1.79	0.65
3:V8:40:ALA:CB	3:V8:156:LEU:HD21	2.26	0.65
2:W8:66:THR:HG21	11:W8:201:CYC:HMC2	1.79	0.65
11:C1:202:CYC:HAB2	2:D1:111:LEU:HD23	1.77	0.64
7:Z3:25:ARG:HB3	7:L7:25:ARG:NH2	2.12	0.64
7:d3:51:ILE:HG21	1:A6:203:PHE:CE2	2.32	0.64
3:T5:151:GLY:CA	11:T5:201:CYC:HMD2	2.27	0.64
3:P6:143:MET:SD	3:P6:153:CYS:SG	2.93	0.64
3:C8:51:ILE:CG1	3:C8:141:ILE:HD11	2.28	0.64
3:I8:51:ILE:CD1	3:I8:141:ILE:HD11	2.21	0.64
2:Y8:137:LYS:HA	2:Y8:140:HIS:CD2	2.31	0.64
1:A1:211:GLN:HE22	1:A1:212:ALA:HB3	1.61	0.64
3:G1:151:GLY:CA	11:G1:202:CYC:HMD2	2.27	0.64
3:K1:126:SER:OG	11:K1:201:CYC:CMC	2.45	0.64
2:Q1:129:TYR:HE1	11:Q1:201:CYC:HBC3	1.61	0.64
5:03:523:VAL:CA	7:C7:106:GLU:CD	2.70	0.64
5:03:720:ASP:HB3	8:R7:107:ARG:NH2	2.10	0.64
5:13:460:LYS:HD2	5:13:462:THR:HB	1.79	0.64
7:I3:154:ASP:OD1	8:B7:46:ALA:HB1	1.97	0.64
7:T3:97:VAL:HG11	8:U3:27:LEU:HD13	1.78	0.64
2:B4:32:ARG:HH21	11:I4:202:CYC:HBA2	1.62	0.64
2:D4:140:HIS:CE1	2:D4:142:LEU:H	2.15	0.64
3:G4:47:ASN:HD22	3:G4:141:ILE:HD13	1.62	0.64
2:Y4:19:LEU:H	2:Y4:19:LEU:CD2	2.09	0.64
2:D5:75:ALA:HB1	2:D5:81:LYS:HG2	1.79	0.64
2:J5:129:TYR:HE1	11:J5:201:CYC:HBC3	1.61	0.64
11:N5:301:CYC:CMC	3:T5:126:SER:OG	2.45	0.64
2:Q5:129:TYR:HE1	11:Q5:201:CYC:HBC3	1.61	0.64
3:Z5:126:SER:OG	11:Z5:201:CYC:CMC	2.45	0.64
3:E8:84:ARG:CZ	11:E8:201:CYC:O2A	2.44	0.64
2:O8:12:ALA:HB1	2:O8:17:ARG:O	1.97	0.64
3:P8:113:LEU:CD1	11:P8:201:CYC:HMB3	2.26	0.64
3:R8:67:ILE:CD1	11:S8:201:CYC:O2A	2.41	0.64
2:U8:151:ASN:HD22	2:U8:151:ASN:N	1.94	0.64
2:W8:19:LEU:HD21	3:X8:95:TYR:HD1	1.61	0.64
2:Y8:40:ALA:HB2	2:Y8:146:ALA:CB	2.27	0.64
2:B1:129:TYR:HE1	11:B1:201:CYC:HBC3	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:V1:202:CYC:HBC3	2:W1:129:TYR:HE1	1.61	0.64
3:C2:36:LYS:CD	11:C2:202:CYC:O1D	2.45	0.64
5:03:777:GLU:HG3	7:O7:14:GLU:HG3	1.78	0.64
5:13:837:LEU:CD2	6:b7:42:ARG:NH2	2.61	0.64
2:S4:23:GLU:N	2:S4:23:GLU:OE1	2.31	0.64
2:U4:151:ASN:N	2:U4:151:ASN:HD22	1.94	0.64
2:H5:75:ALA:HB1	2:H5:81:LYS:HG2	1.79	0.64
4:N5:248:THR:HA	4:N5:250:ARG:HH12	1.61	0.64
11:O5:201:CYC:O2D	3:T5:57:ARG:NH2	2.30	0.64
3:P5:151:GLY:CA	11:P5:202:CYC:HMD2	2.27	0.64
3:V5:126:SER:OG	11:V5:201:CYC:CMC	2.45	0.64
3:P6:151:GLY:N	11:P6:202:CYC:CMD	2.59	0.64
11:A8:301:CYC:HMB3	3:C8:113:LEU:CD1	2.26	0.64
2:B8:27:LEU:HD12	3:C8:98:PHE:HE2	1.63	0.64
3:C8:51:ILE:CG1	3:C8:141:ILE:CD1	2.75	0.64
2:F8:19:LEU:HG	2:F8:23:GLU:HG2	1.80	0.64
3:I8:84:ARG:CZ	11:I8:201:CYC:O2A	2.44	0.64
3:K8:143:MET:HE2	3:K8:143:MET:HA	1.78	0.64
3:M8:84:ARG:CZ	11:M8:202:CYC:O2A	2.44	0.64
2:O8:23:GLU:O	2:O8:26:TYR:HB2	1.97	0.64
2:O8:36:PHE:CD1	2:O8:146:ALA:HA	2.33	0.64
2:U1:129:TYR:HE1	11:U1:201:CYC:HBC3	1.61	0.64
3:X1:126:SER:OG	11:X1:201:CYC:CMC	2.45	0.64
11:X1:203:CYC:HBC3	2:Y1:129:TYR:HE1	1.61	0.64
5:13:837:LEU:HD21	6:b7:42:ARG:NH2	2.13	0.64
7:d3:73:TYR:CE1	1:A6:194:VAL:CG2	2.70	0.64
8:p3:46:ALA:CB	7:V7:154:ASP:OD1	2.44	0.64
2:B4:66:THR:HG21	11:G4:201:CYC:HMC2	1.79	0.64
3:C4:57:ARG:HH12	2:D4:72:ASN:CB	2.08	0.64
2:D4:66:THR:HG21	11:D4:201:CYC:HMC2	1.79	0.64
2:F4:25:GLN:CD	2:J4:33:GLN:CG	2.68	0.64
3:G4:143:MET:HE2	3:G4:157:GLN:CB	2.24	0.64
2:L4:66:THR:HG21	11:L4:201:CYC:HMC2	1.79	0.64
4:N4:49:MET:CE	3:T4:84:ARG:HH22	2.10	0.64
3:Z4:84:ARG:CZ	11:Z4:201:CYC:O2A	2.44	0.64
3:G5:126:SER:OG	11:G5:201:CYC:CMC	2.45	0.64
3:I5:126:SER:OG	11:I5:201:CYC:CMC	2.45	0.64
2:J5:84:CYS:CA	11:J5:201:CYC:CAC	2.74	0.64
4:N5:248:THR:HA	4:N5:250:ARG:HH11	1.60	0.64
2:S5:111:LEU:HD23	11:S5:201:CYC:HAB2	1.77	0.64
2:U5:122:PHE:CE2	11:U5:201:CYC:HAA1	2.25	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J6:24:LEU:HB2	11:K6:202:CYC:CBB	2.22	0.64
3:K6:116:THR:HG23	4:N6:257:SER:HB3	1.80	0.64
4:N8:45:ASN:ND2	4:N8:175:ALA:O	2.31	0.64
3:Z8:153:CYS:O	3:Z8:157:GLN:N	2.28	0.64
2:B1:24:LEU:CD1	11:C1:201:CYC:HBB1	2.26	0.64
3:K1:88:ILE:CD1	4:N1:251:TYR:HH	2.07	0.64
3:V1:57:ARG:HH12	11:V1:202:CYC:CGD	2.09	0.64
3:P2:33:GLU:C	3:P2:36:LYS:CG	2.57	0.64
2:J4:149:GLU:C	2:J4:153:TYR:CD2	2.74	0.64
3:V4:67:ILE:HD12	2:W4:86:ARG:NH2	2.12	0.64
2:D5:24:LEU:HD13	11:D5:201:CYC:HBB2	1.78	0.64
2:F5:129:TYR:HE1	11:F5:201:CYC:HBC3	1.61	0.64
1:A6:65:LEU:HD21	3:I6:91:ARG:HH22	1.63	0.64
3:K6:57:ARG:HA	3:K6:57:ARG:NE	2.10	0.64
3:V6:148:VAL:HG12	11:V6:202:CYC:NC	2.11	0.64
2:B8:32:ARG:HH21	11:I8:202:CYC:HBA2	1.62	0.64
2:B8:66:THR:HG21	11:G8:201:CYC:HMC2	1.79	0.64
2:B8:150:THR:HA	2:B8:153:TYR:HB2	1.79	0.64
11:E8:203:CYC:HMC2	2:F8:66:THR:HG21	1.79	0.64
2:H8:66:THR:HG21	11:M8:201:CYC:HMC2	1.79	0.64
2:O8:66:THR:HG21	11:O8:201:CYC:HMC2	1.79	0.64
2:D1:24:LEU:HD13	11:D1:201:CYC:HBB2	1.78	0.64
2:L1:129:TYR:HE1	11:L1:201:CYC:HBC3	1.61	0.64
2:O1:84:CYS:CA	11:O1:201:CYC:CAC	2.74	0.64
3:R1:151:GLY:CA	11:R1:202:CYC:HMD2	2.27	0.64
3:X1:151:GLY:CA	11:X1:202:CYC:HMD2	2.27	0.64
2:D4:13:ASP:OD1	3:E4:108:ARG:NH1	2.30	0.64
11:I4:203:CYC:HMC2	2:J4:66:THR:HG21	1.79	0.64
11:P4:203:CYC:HMC2	2:Q4:66:THR:HG21	1.79	0.64
2:Q4:24:LEU:HD11	2:U4:152:ASN:ND2	2.00	0.64
3:T4:139:VAL:C	3:T4:142:VAL:HG13	2.22	0.64
11:A5:301:CYC:CMC	3:C5:126:SER:OG	2.45	0.64
2:S5:94:MET:CE	11:S5:201:CYC:HBB1	2.22	0.64
3:X5:151:GLY:CA	11:X5:202:CYC:HMD2	2.27	0.64
3:P6:152:ASP:OD1	3:P6:152:ASP:N	2.27	0.64
3:X6:151:GLY:HA3	11:X6:202:CYC:HMD1	0.64	0.64
8:M7:81:CYS:HG	11:M7:1001:CYC:HAC2	1.61	0.64
11:A8:301:CYC:O2A	3:C8:84:ARG:CZ	2.44	0.64
2:D8:140:HIS:ND1	2:D8:142:LEU:CG	2.61	0.64
2:F8:20:SER:OG	2:F8:21:ASN:N	2.28	0.64
2:S8:66:THR:HG21	11:S8:201:CYC:HMC2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:209:VAL:HB	1:A1:210:PRO:HD2	0.66	0.64
3:K1:151:GLY:CA	11:K1:202:CYC:HMD2	2.27	0.64
3:K2:33:GLU:HA	3:K2:36:LYS:HG3	1.79	0.64
7:o3:87:TYR:OH	1:A5:213:GLY:O	2.15	0.64
2:O4:36:PHE:CD1	2:O4:146:ALA:HA	2.33	0.64
2:S4:149:GLU:C	2:S4:153:TYR:CD2	2.73	0.64
2:S4:150:THR:C	2:S4:153:TYR:HB2	2.23	0.64
3:K5:84:ARG:CD	4:N5:251:TYR:CD2	2.79	0.64
2:O5:129:TYR:HE1	11:O5:201:CYC:HBC3	1.61	0.64
2:Q5:94:MET:CE	11:Q5:201:CYC:HBB1	2.22	0.64
2:U5:75:ALA:HB1	2:U5:81:LYS:HG2	1.79	0.64
3:K6:57:ARG:NH2	11:L6:201:CYC:O1A	2.30	0.64
3:K6:151:GLY:CA	11:K6:202:CYC:HMD3	2.25	0.64
3:K8:139:VAL:HA	3:K8:142:VAL:HG11	1.74	0.64
2:O1:75:ALA:HB1	2:O1:81:LYS:HG2	1.79	0.64
3:R1:126:SER:OG	11:R1:201:CYC:CMC	2.45	0.64
5:03:388:GLU:HG2	5:03:389:GLU:HG2	1.80	0.64
1:A4:203:PHE:CZ	1:A5:216:ALA:HA	2.32	0.64
2:B4:17:ARG:HB3	2:B4:17:ARG:NH1	2.12	0.64
2:F4:24:LEU:CG	2:F4:28:TYR:CE1	2.79	0.64
2:O4:23:GLU:O	2:O4:26:TYR:HB2	1.97	0.64
3:X4:84:ARG:CZ	11:X4:201:CYC:O2A	2.44	0.64
2:Y4:149:GLU:CB	2:Y4:153:TYR:HD2	2.03	0.64
11:D5:201:CYC:HMD2	3:E5:151:GLY:CA	2.27	0.64
3:K5:126:SER:OG	11:K5:201:CYC:CMC	2.45	0.64
3:K6:33:GLU:HA	3:K6:36:LYS:HG3	1.79	0.64
3:R6:37:ARG:HA	3:R6:156:LEU:CD2	2.27	0.64
8:F7:81:CYS:HG	11:F7:1001:CYC:HAC2	1.55	0.64
11:a7:1001:CYC:HB	11:a7:1001:CYC:HMA1	1.63	0.64
11:P8:202:CYC:HBA2	2:W8:32:ARG:NH2	2.12	0.64
3:R8:132:ARG:O	3:R8:136:LYS:N	2.30	0.64
2:U8:24:LEU:HB3	11:V8:202:CYC:HBB3	1.77	0.64
2:F1:19:LEU:HB2	3:G1:45:THR:HG21	1.80	0.64
2:F1:122:PHE:CE2	11:F1:201:CYC:HAA1	2.25	0.64
4:N1:248:THR:O	4:N1:250:ARG:HD3	1.98	0.64
3:R2:37:ARG:HA	3:R2:156:LEU:CD2	2.27	0.64
5:03:557:ILE:HD11	8:B7:83:ARG:NE	2.12	0.64
5:13:233:ASN:O	6:33:19:GLN:NE2	2.31	0.64
7:X3:3:ILE:CD1	7:H7:25:ARG:CZ	2.76	0.64
7:b3:150:GLY:O	7:b3:154:ASP:HB2	1.98	0.64
2:B4:64:PRO:HG2	2:J5:135:HIS:CE1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S5:129:TYR:HE1	11:S5:201:CYC:HBC3	1.61	0.64
2:F6:24:LEU:HD13	11:G6:201:CYC:HBB3	1.80	0.64
8:F7:115:THR:HB	6:G7:53:VAL:HG11	1.78	0.64
7:L7:81:CYS:HG	11:L7:1001:CYC:HAC2	1.63	0.64
2:D1:75:ALA:HB1	2:D1:81:LYS:HG2	1.79	0.64
2:F1:24:LEU:HD12	11:G1:202:CYC:HBB1	1.78	0.64
3:K2:149:THR:HG1	11:K2:202:CYC:C3D	2.11	0.64
3:X2:151:GLY:HA3	11:X2:202:CYC:HMD1	0.64	0.64
7:d3:82:LEU:HB3	1:A6:203:PHE:CG	2.33	0.64
7:w3:161:GLU:O	8:T7:49:ALA:HB2	1.98	0.64
2:B4:18:PHE:CE1	3:C4:91:ARG:HG3	2.33	0.64
2:H4:66:THR:HG21	11:M4:201:CYC:HMC2	1.79	0.64
3:K4:77:ARG:HB3	2:L4:113:ALA:HB3	1.80	0.64
2:F5:75:ALA:HB1	2:F5:81:LYS:HG2	1.79	0.64
3:M5:126:SER:OG	11:M5:201:CYC:CMC	2.45	0.64
2:U5:73:ASN:OD1	2:U5:73:ASN:N	2.27	0.64
2:U5:111:LEU:HD23	11:U5:201:CYC:HAB2	1.77	0.64
11:V5:202:CYC:HBC3	2:W5:129:TYR:HE1	1.61	0.64
3:G1:126:SER:OG	11:G1:201:CYC:CMC	2.45	0.63
2:W1:75:ALA:HB1	2:W1:81:LYS:HG2	1.79	0.63
1:A2:65:LEU:HD21	3:I2:91:ARG:HH22	1.63	0.63
3:G2:57:ARG:HD3	3:G2:57:ARG:C	2.23	0.63
3:P2:152:ASP:OD1	3:P2:152:ASP:N	2.27	0.63
7:Z3:18:LEU:HD12	8:a3:97:LEU:HD13	1.80	0.63
7:Z3:150:GLY:O	7:Z3:154:ASP:HB2	1.98	0.63
7:u3:150:GLY:O	7:u3:154:ASP:HB2	1.98	0.63
2:F4:36:PHE:CZ	2:F4:149:GLU:OE2	2.43	0.63
2:W4:66:THR:HG21	11:W4:201:CYC:HMC2	1.79	0.63
3:I5:151:GLY:CA	11:I5:202:CYC:HMD2	2.27	0.63
2:S5:75:ALA:HB1	2:S5:81:LYS:HG2	1.79	0.63
3:G8:132:ARG:NH1	3:G8:165:GLU:OE2	2.32	0.63
2:O8:36:PHE:CZ	2:O8:149:GLU:HG3	2.33	0.63
3:X8:132:ARG:NH1	3:X8:165:GLU:OE2	2.32	0.63
3:X8:139:VAL:HA	3:X8:142:VAL:HG13	1.80	0.63
2:Y8:149:GLU:CB	2:Y8:153:TYR:HE2	2.07	0.63
2:H1:75:ALA:HB1	2:H1:81:LYS:HG2	1.79	0.63
2:L1:75:ALA:HB1	2:L1:81:LYS:HG2	1.79	0.63
4:N2:212:ALA:HB3	4:N2:244:ALA:HB1	1.79	0.63
3:R2:111:ASN:OD1	3:R2:111:ASN:N	2.28	0.63
3:T2:145:PRO:HB3	11:T2:202:CYC:HMC3	1.79	0.63
5:13:523:VAL:O	7:J7:106:GLU:OE1	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K3:69:GLY:HA3	7:A7:63:PRO:HD2	1.78	0.63
7:Z3:16:ARG:O	8:a3:94:TYR:OH	2.16	0.63
7:o3:3:ILE:CD1	7:V7:25:ARG:CZ	2.77	0.63
7:s3:150:GLY:O	7:s3:154:ASP:HB2	1.98	0.63
7:u3:124:ASP:OD1	7:u3:124:ASP:N	2.32	0.63
1:A4:216:ALA:H	1:A5:203:PHE:HE1	1.40	0.63
3:I4:132:ARG:NH1	3:I4:165:GLU:OE2	2.32	0.63
3:K4:143:MET:HE2	3:K4:143:MET:HA	1.78	0.63
11:N4:301:CYC:O2A	3:R4:84:ARG:CZ	2.44	0.63
2:B5:129:TYR:HE1	11:B5:201:CYC:HBC3	1.61	0.63
2:O5:75:ALA:HB1	2:O5:81:LYS:HG2	1.79	0.63
3:R5:57:ARG:CZ	11:S5:201:CYC:O2D	2.47	0.63
11:U5:202:CYC:HMD2	3:V5:151:GLY:CA	2.27	0.63
2:D8:66:THR:HG21	11:D8:201:CYC:HMC2	1.79	0.63
4:N8:49:MET:CE	3:T8:84:ARG:HH22	2.10	0.63
11:P8:203:CYC:HMC2	2:Q8:66:THR:HG21	1.79	0.63
2:U8:150:THR:HG23	2:U8:154:ILE:HG13	1.78	0.63
2:Y8:66:THR:HG21	11:Y8:201:CYC:HMC2	1.79	0.63
2:H1:24:LEU:HD12	11:I1:202:CYC:HBB1	1.80	0.63
2:J1:75:ALA:HB1	2:J1:81:LYS:HG2	1.79	0.63
4:N1:248:THR:HA	4:N1:250:ARG:HH11	1.60	0.63
3:R1:57:ARG:CZ	11:S1:201:CYC:O2D	2.47	0.63
2:Y1:75:ALA:HB1	2:Y1:81:LYS:HG2	1.79	0.63
3:R2:151:GLY:N	11:R2:201:CYC:HMD2	2.13	0.63
5:03:557:ILE:HG23	11:B7:1001:CYC:CMA	2.28	0.63
5:03:593:VAL:HG22	5:03:626:LEU:HD11	1.81	0.63
7:G3:150:GLY:O	7:G3:154:ASP:HB2	1.98	0.63
7:R3:124:ASP:OD1	7:R3:124:ASP:N	2.32	0.63
7:Z3:22:GLU:HA	7:L7:25:ARG:CZ	2.20	0.63
7:q3:16:ARG:O	8:r3:94:TYR:OH	2.15	0.63
7:q3:150:GLY:O	7:q3:154:ASP:HB2	1.98	0.63
3:C4:139:VAL:O	3:C4:142:VAL:HG13	1.98	0.63
3:E4:74:TYR:OH	2:F4:93:ARG:NH1	2.32	0.63
2:O4:12:ALA:HB1	2:O4:17:ARG:O	1.97	0.63
2:B5:122:PHE:CE2	11:B5:201:CYC:HAA1	2.25	0.63
2:J5:28:TYR:OH	11:K5:202:CYC:C4B	2.46	0.63
3:P6:57:ARG:NH2	2:Q6:72:ASN:CB	2.61	0.63
11:B7:1001:CYC:HB	11:B7:1001:CYC:HMA1	1.63	0.63
7:C7:81:CYS:HG	11:C7:1001:CYC:HAC2	1.58	0.63
3:C8:145:PRO:HB3	11:C8:201:CYC:CMC	2.25	0.63
2:D8:13:ASP:OD1	3:E8:108:ARG:NH1	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S8:150:THR:C	2:S8:153:TYR:HB2	2.23	0.63
1:A2:201:ARG:NE	7:N3:52:LYS:HZ1	1.97	0.63
3:V2:57:ARG:CZ	2:W2:122:PHE:CE1	2.82	0.63
7:K3:150:GLY:O	7:K3:154:ASP:HB2	1.98	0.63
7:d3:82:LEU:HD11	1:A6:199:ALA:C	2.24	0.63
2:J4:150:THR:HA	2:J4:153:TYR:HB2	1.81	0.63
3:R4:132:ARG:NH1	3:R4:165:GLU:OE2	2.32	0.63
2:B5:75:ALA:HB1	2:B5:81:LYS:HG2	1.79	0.63
2:L5:129:TYR:HE1	11:L5:201:CYC:HBC3	1.62	0.63
2:Q5:75:ALA:HB1	2:Q5:81:LYS:HG2	1.79	0.63
7:Z7:81:CYS:HG	11:Z7:1001:CYC:HAC2	1.59	0.63
2:S8:23:GLU:N	2:S8:23:GLU:OE1	2.31	0.63
2:U8:111:LEU:CD2	11:U8:201:CYC:HAB2	2.18	0.63
3:V8:132:ARG:NH1	3:V8:165:GLU:OE2	2.32	0.63
2:W8:150:THR:HA	2:W8:153:TYR:HB2	1.81	0.63
1:A1:63:GLN:NE2	1:A1:87:SER:OG	2.31	0.63
2:B1:75:ALA:HB1	2:B1:81:LYS:HG2	1.79	0.63
3:C1:151:GLY:CA	11:C1:201:CYC:HMD2	2.27	0.63
11:C1:202:CYC:CAC	2:D1:84:CYS:CA	2.74	0.63
5:03:513:ASN:C	5:03:514:GLU:CG	2.72	0.63
5:03:719:THR:HA	6:U7:23:GLN:HE22	0.60	0.63
7:I3:70:GLY:CA	7:C7:64:ASP:OD1	2.46	0.63
7:i3:150:GLY:O	7:i3:154:ASP:HB2	1.98	0.63
7:u3:77:MET:CE	1:A8:201:ARG:HG3	2.28	0.63
7:u3:77:MET:HE1	1:A8:201:ARG:HG3	1.81	0.63
3:C4:132:ARG:NH1	3:C4:165:GLU:OE2	2.32	0.63
3:K4:153:CYS:CB	11:K4:202:CYC:HBC2	2.28	0.63
3:P4:132:ARG:NH1	3:P4:165:GLU:OE2	2.32	0.63
3:V4:132:ARG:NH1	3:V4:165:GLU:OE2	2.32	0.63
3:X4:132:ARG:NH1	3:X4:165:GLU:OE2	2.32	0.63
2:Y4:66:THR:HG21	11:Y4:201:CYC:HMC2	1.79	0.63
11:V5:202:CYC:HAA1	2:W5:122:PHE:CE2	2.25	0.63
3:R6:151:GLY:N	11:R6:201:CYC:HMD2	2.13	0.63
7:O7:90:ARG:NH2	8:T7:73:TYR:OH	2.21	0.63
2:B8:150:THR:O	2:B8:154:ILE:N	2.24	0.63
2:J8:150:THR:HA	2:J8:153:TYR:HB2	1.81	0.63
3:T8:143:MET:CE	3:T8:153:CYS:HB3	2.23	0.63
2:Y8:111:LEU:CD2	11:Y8:201:CYC:HAB2	2.18	0.63
11:D1:201:CYC:HMD2	3:E1:151:GLY:CA	2.27	0.63
2:J1:28:TYR:OH	11:K1:202:CYC:C4B	2.46	0.63
3:M1:151:GLY:CA	11:M1:202:CYC:HMD2	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:03:719:THR:O	6:U7:20:ARG:NH1	2.31	0.63
7:G3:25:ARG:HG3	7:C7:25:ARG:CZ	2.29	0.63
7:I3:151:ALA:CB	7:A7:20:PRO:HB3	2.18	0.63
7:o3:60:GLN:HA	1:A5:226:GLN:HE22	1.63	0.63
7:q3:25:ARG:CG	7:Z7:25:ARG:HD2	2.28	0.63
2:B4:150:THR:HA	2:B4:153:TYR:HB2	1.79	0.63
2:D4:24:LEU:C	11:E4:202:CYC:CBB	2.72	0.63
2:O4:66:THR:HG21	11:O4:201:CYC:HMC2	1.80	0.63
3:T4:132:ARG:NH1	3:T4:165:GLU:OE2	2.32	0.63
2:W4:150:THR:HA	2:W4:153:TYR:HB2	1.81	0.63
3:Z4:132:ARG:NH1	3:Z4:165:GLU:OE2	2.32	0.63
2:J5:75:ALA:HB1	2:J5:81:LYS:HG2	1.79	0.63
2:J5:94:MET:CE	11:J5:201:CYC:HBB1	2.22	0.63
4:N5:249:PRO:O	4:N5:250:ARG:HB2	1.99	0.63
2:Y5:75:ALA:HB1	2:Y5:81:LYS:HG2	1.79	0.63
3:P8:132:ARG:NH1	3:P8:165:GLU:OE2	2.32	0.63
3:X8:35:THR:O	3:X8:38:SER:OG	2.17	0.63
2:Y8:99:LEU:CD1	2:Y8:149:GLU:CD	2.71	0.63
3:Z8:84:ARG:CZ	11:Z8:201:CYC:O2A	2.44	0.63
1:A1:106:GLN:NE2	1:A1:179:PRO:O	2.31	0.63
3:X1:74:TYR:OH	2:Y1:93:ARG:NH1	2.26	0.63
2:D2:145:ASP:OD1	11:M2:202:CYC:C3B	2.47	0.63
3:P2:143:MET:SD	3:P2:153:CYS:SG	2.93	0.63
7:X3:150:GLY:O	7:X3:154:ASP:HB2	1.98	0.63
7:d3:37:LEU:HD22	8:e3:24:MET:SD	2.39	0.63
2:J4:61:SER:O	2:J5:61:SER:O	2.17	0.63
11:P4:202:CYC:HBA2	2:W4:32:ARG:NH2	2.12	0.63
3:X4:35:THR:O	3:X4:38:SER:OG	2.17	0.63
11:M7:1001:CYC:HB	11:M7:1001:CYC:HMA1	1.63	0.63
2:B8:18:PHE:CE1	3:C8:91:ARG:HG3	2.33	0.63
2:S8:33:GLN:HG3	2:Y8:25:GLN:HE21	0.82	0.63
3:T8:139:VAL:C	3:T8:142:VAL:HG13	2.22	0.63
3:V8:84:ARG:CZ	11:V8:201:CYC:O2A	2.44	0.63
3:Z8:132:ARG:NH1	3:Z8:165:GLU:OE2	2.32	0.63
3:Z1:151:GLY:CA	11:Z1:202:CYC:HMD2	2.27	0.63
3:K2:116:THR:HG23	4:N2:257:SER:HB3	1.80	0.63
3:M2:84:ARG:CZ	11:M2:201:CYC:O2A	2.47	0.63
5:03:460:LYS:HD2	5:03:462:THR:HB	1.79	0.63
5:13:522:ASN:O	7:J7:106:GLU:HB3	1.98	0.63
5:13:593:VAL:HG22	5:13:626:LEU:HD11	1.81	0.63
11:13:902:CYC:HBC2	8:Y3:60:LEU:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K3:161:GLU:O	8:F7:49:ALA:HB2	1.98	0.63
7:X3:66:VAL:HG11	1:A6:227:ILE:HG21	1.79	0.63
7:w3:64:ASP:OD2	7:O7:70:GLY:N	2.31	0.63
2:F4:28:TYR:HD2	2:J4:32:ARG:CZ	2.10	0.63
3:T4:151:GLY:HA3	11:T4:202:CYC:HMD3	1.71	0.63
1:A5:127:ILE:HD11	3:C5:84:ARG:NH2	2.14	0.63
2:L5:84:CYS:CA	11:L5:201:CYC:CAC	2.74	0.63
11:V7:1001:CYC:HMA1	8:a7:66:THR:HG23	1.81	0.63
3:E8:132:ARG:NH1	3:E8:165:GLU:OE2	2.32	0.63
11:F8:201:CYC:HMC2	3:G8:143:MET:O	1.99	0.63
3:K8:77:ARG:HB3	2:L8:113:ALA:HB3	1.80	0.63
3:K8:132:ARG:NH1	3:K8:165:GLU:OE2	2.31	0.63
4:N1:248:THR:CA	4:N1:250:ARG:NH1	2.60	0.63
2:F2:24:LEU:HD13	11:G2:201:CYC:HBB3	1.80	0.63
5:13:525:PHE:HB2	8:K7:1:MET:HB3	1.81	0.63
7:X3:154:ASP:OD1	8:I7:46:ALA:HB1	1.99	0.63
8:c3:67:ARG:HG2	1:A6:213:GLY:C	2.23	0.63
7:o3:150:GLY:O	7:o3:154:ASP:HB2	1.98	0.63
2:B4:27:LEU:HD12	3:C4:98:PHE:HE2	1.63	0.63
2:D4:33:GLN:HG2	2:D4:149:GLU:OE2	1.99	0.63
2:L5:122:PHE:CE2	11:L5:201:CYC:HAA1	2.25	0.63
4:N5:248:THR:CA	4:N5:250:ARG:HH11	2.11	0.63
4:N5:248:THR:O	4:N5:250:ARG:HD3	1.98	0.63
2:W5:75:ALA:HB1	2:W5:81:LYS:HG2	1.79	0.63
11:X5:203:CYC:HBC3	2:Y5:129:TYR:HE1	1.62	0.63
3:K6:39:ASP:CG	11:K6:202:CYC:HHD	2.24	0.63
3:K8:153:CYS:CB	11:K8:202:CYC:HBC2	2.27	0.63
3:T8:132:ARG:NH1	3:T8:165:GLU:OE2	2.32	0.63
3:K2:57:ARG:HA	3:K2:57:ARG:NE	2.11	0.62
11:N2:301:CYC:O2A	3:R2:84:ARG:CZ	2.47	0.62
5:13:443:TYR:CE2	11:13:902:CYC:HAA1	2.34	0.62
7:I3:150:GLY:O	7:I3:154:ASP:HB2	1.98	0.62
7:N3:150:GLY:O	7:N3:154:ASP:HB2	1.98	0.62
7:P3:19:SER:OG	10:V3:100:ASP:OD1	2.14	0.62
7:f3:150:GLY:O	7:f3:154:ASP:HB2	1.98	0.62
3:E4:132:ARG:NH1	3:E4:165:GLU:OE2	2.32	0.62
2:H4:18:PHE:CD1	3:I4:91:ARG:HG3	2.34	0.62
3:K4:67:ILE:HD12	2:L4:86:ARG:NH2	2.11	0.62
3:K4:67:ILE:CD1	11:L4:201:CYC:H2A	2.11	0.62
3:K4:132:ARG:NH1	3:K4:165:GLU:OE2	2.31	0.62
2:O4:19:LEU:HD22	2:O4:19:LEU:N	2.01	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O4:36:PHE:CZ	2:O4:149:GLU:HG3	2.33	0.62
2:F5:149:GLU:OE2	11:K5:202:CYC:CAB	2.43	0.62
2:B6:100:VAL:HG21	3:C6:19:ILE:HD12	1.81	0.62
2:D6:145:ASP:OD1	11:M6:202:CYC:C3B	2.47	0.62
3:G6:39:ASP:OD2	11:G6:201:CYC:HHD	1.99	0.62
11:I7:1001:CYC:HB	11:I7:1001:CYC:HMA1	1.63	0.62
1:A8:203:PHE:CE2	1:A8:204:ARG:CZ	2.82	0.62
2:B8:140:HIS:CE1	2:B8:142:LEU:CG	2.82	0.62
2:D8:24:LEU:C	11:E8:202:CYC:HBB2	2.24	0.62
3:E8:74:TYR:OH	2:F8:93:ARG:NH1	2.32	0.62
3:R8:132:ARG:NH1	3:R8:165:GLU:OE2	2.32	0.62
11:E2:203:CYC:HAC1	2:F2:84:CYS:HB2	0.64	0.62
11:I2:203:CYC:HAC1	2:J2:84:CYS:HB2	0.64	0.62
5:13:388:GLU:HG2	5:13:389:GLU:HG2	1.80	0.62
7:d3:150:GLY:O	7:d3:154:ASP:HB2	1.98	0.62
7:o3:76:GLU:O	7:o3:80:THR:OG1	2.12	0.62
2:D4:24:LEU:C	11:E4:202:CYC:HBB2	2.24	0.62
1:A5:23:GLY:C	2:F5:2:LYS:HZ1	2.07	0.62
2:F5:84:CYS:CA	11:F5:201:CYC:CAC	2.74	0.62
11:A6:301:CYC:O2A	3:G6:84:ARG:CZ	2.47	0.62
3:K6:84:ARG:CZ	11:K6:201:CYC:O2A	2.47	0.62
3:K6:111:ASN:OD1	3:K6:111:ASN:N	2.28	0.62
3:Z6:84:ARG:CZ	11:Z6:201:CYC:O2A	2.47	0.62
8:B7:125:SER:OG	11:B7:1001:CYC:HMC2	2.00	0.62
11:F7:1001:CYC:HB	11:F7:1001:CYC:HMA1	1.63	0.62
8:K7:125:SER:OG	11:K7:1001:CYC:HMC2	2.00	0.62
1:A8:25:ASP:OD2	2:F8:6:THR:OG1	2.16	0.62
3:I8:132:ARG:NH1	3:I8:165:GLU:OE2	2.32	0.62
2:J8:19:LEU:HD12	2:J8:23:GLU:HG2	1.82	0.62
2:S8:19:LEU:HD22	3:T8:95:TYR:HE1	1.61	0.62
2:Y8:146:ALA:O	2:Y8:149:GLU:CG	2.44	0.62
1:A1:211:GLN:CD	1:A1:212:ALA:N	2.57	0.62
2:J1:58:ALA:CA	2:J8:64:PRO:HB2	2.28	0.62
4:N1:248:THR:CA	4:N1:250:ARG:HH11	2.11	0.62
3:K2:39:ASP:CG	11:K2:202:CYC:HHD	2.24	0.62
11:N2:302:CYC:O2A	3:T2:84:ARG:CZ	2.47	0.62
3:T2:57:ARG:HE	3:T2:57:ARG:CA	2.12	0.62
3:Z2:151:GLY:HA3	11:Z2:203:CYC:CMA	2.30	0.62
7:X3:68:PRO:O	7:J7:63:PRO:CG	2.46	0.62
7:Z3:25:ARG:HD3	7:L7:25:ARG:HH21	1.64	0.62
7:o3:75:GLU:OE2	1:A5:223:ARG:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:w3:150:GLY:O	7:w3:154:ASP:HB2	1.98	0.62
2:F4:151:ASN:N	2:F4:151:ASN:HD22	1.95	0.62
3:G4:132:ARG:NH1	3:G4:165:GLU:OE2	2.32	0.62
2:J4:19:LEU:HD12	2:J4:23:GLU:HG2	1.82	0.62
2:L4:83:LYS:HZ1	11:L4:201:CYC:H2A	1.45	0.62
11:R6:202:CYC:HAC1	2:S6:84:CYS:HB2	0.64	0.62
7:V7:71:ASN:ND2	11:V7:1001:CYC:NC	2.42	0.62
8:W7:75:THR:HG21	7:X7:112:VAL:HG12	1.81	0.62
11:I8:203:CYC:HMC2	2:J8:66:THR:HG21	1.79	0.62
3:K8:84:ARG:CZ	11:K8:201:CYC:O2A	2.44	0.62
1:A1:226:GLN:NE2	7:u3:60:GLN:HG2	2.13	0.62
2:F1:149:GLU:OE2	11:K1:202:CYC:CAB	2.43	0.62
5:03:442:VAL:HG21	5:03:608:ARG:HG3	0.77	0.62
7:I3:23:LEU:HB3	8:J3:38:VAL:HG13	1.82	0.62
7:T3:150:GLY:O	7:T3:154:ASP:HB2	1.98	0.62
7:d3:97:VAL:HG21	8:e3:19:LEU:HD13	1.81	0.62
7:f3:124:ASP:OD1	7:f3:124:ASP:N	2.32	0.62
7:y3:150:GLY:O	7:y3:154:ASP:HB2	1.98	0.62
3:M4:132:ARG:NH1	3:M4:165:GLU:OE2	2.32	0.62
2:Y4:149:GLU:HG2	2:Y4:153:TYR:HE2	0.67	0.62
2:H5:24:LEU:HD12	11:I5:202:CYC:HBB1	1.80	0.62
11:N6:302:CYC:O2A	3:T6:84:ARG:CZ	2.47	0.62
7:S7:71:ASN:ND2	11:S7:1001:CYC:NC	2.42	0.62
2:D8:19:LEU:HD22	2:D8:19:LEU:N	2.15	0.62
3:M8:132:ARG:NH1	3:M8:165:GLU:OE2	2.32	0.62
3:R2:153:CYS:SG	3:R2:156:LEU:CB	2.84	0.62
5:13:137:VAL:HG13	5:13:139:ARG:H	1.63	0.62
7:T3:124:ASP:OD1	7:T3:124:ASP:N	2.32	0.62
7:k3:150:GLY:O	7:k3:154:ASP:HB2	1.98	0.62
7:o3:76:GLU:HG2	1:A4:203:PHE:CE2	2.34	0.62
2:D4:86:ARG:HH22	11:D4:201:CYC:H2A	0.66	0.62
3:E4:140:ALA:CA	3:E4:143:MET:HG2	2.16	0.62
3:K5:57:ARG:HH12	11:L5:201:CYC:CGD	2.12	0.62
3:M6:151:GLY:C	11:M6:202:CYC:CMD	2.73	0.62
3:Z6:111:ASN:OD1	3:Z6:111:ASN:N	2.28	0.62
3:V8:138:ALA:O	3:V8:142:VAL:CG1	2.39	0.62
1:A1:127:ILE:HD11	3:C1:84:ARG:NH2	2.14	0.62
4:N1:36:ARG:NH1	2:S1:14:SER:O	2.33	0.62
4:N1:249:PRO:O	4:N1:250:ARG:HB2	1.98	0.62
3:T1:151:GLY:CA	11:T1:201:CYC:HMD2	2.27	0.62
3:X2:84:ARG:CZ	11:X2:201:CYC:O2A	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:03:137:VAL:HG13	5:03:139:ARG:H	1.63	0.62
5:03:720:ASP:OD2	8:R7:107:ARG:NH2	2.33	0.62
5:13:422:LYS:HB3	8:e3:110:ASN:HD21	1.64	0.62
7:Z3:113:ARG:HB3	7:Z3:113:ARG:HH11	1.62	0.62
7:q3:25:ARG:CG	7:Z7:25:ARG:HD3	2.30	0.62
2:O4:140:HIS:CE1	2:O4:142:LEU:CG	2.80	0.62
2:Y4:19:LEU:HD21	3:Z4:95:TYR:CD1	2.34	0.62
2:B5:84:CYS:CA	11:B5:201:CYC:CAC	2.74	0.62
3:K5:88:ILE:CD1	4:N5:251:TYR:HH	2.10	0.62
3:R5:57:ARG:HH22	11:S5:201:CYC:CGD	2.12	0.62
3:K6:37:ARG:HB2	3:K6:156:LEU:HD21	1.82	0.62
3:K6:57:ARG:CZ	11:L6:201:CYC:O1A	2.48	0.62
8:D7:125:SER:OG	11:D7:1001:CYC:HMC2	2.00	0.62
2:J8:149:GLU:HG3	2:J8:153:TYR:HE2	1.65	0.62
3:R8:139:VAL:HA	3:R8:142:VAL:HG12	1.82	0.62
2:Y8:19:LEU:HD21	3:Z8:95:TYR:CD1	2.34	0.62
2:B2:100:VAL:HG21	3:C2:19:ILE:HD12	1.81	0.62
2:U2:84:CYS:HB2	11:Z2:201:CYC:HAC1	0.64	0.62
5:03:525:PHE:HB2	8:D7:1:MET:HB3	1.82	0.62
5:13:557:ILE:CD1	8:I7:83:ARG:NH1	2.62	0.62
5:13:685:LEU:HB3	7:s3:83:ARG:HD3	1.81	0.62
7:K3:124:ASP:OD1	7:K3:124:ASP:N	2.32	0.62
7:w3:25:ARG:HH22	7:S7:21:GLY:C	2.08	0.62
3:I5:57:ARG:HH21	2:J5:72:ASN:HD22	1.48	0.62
3:C6:36:LYS:HZ3	11:C6:202:CYC:CGD	2.03	0.62
3:C6:84:ARG:CZ	11:C6:201:CYC:O2A	2.47	0.62
2:D8:24:LEU:C	11:E8:202:CYC:CBB	2.72	0.62
3:I8:40:ALA:CB	3:I8:156:LEU:HD13	2.28	0.62
2:O8:36:PHE:HZ	2:O8:149:GLU:HG3	1.63	0.62
2:Y8:137:LYS:O	2:Y8:140:HIS:CD2	2.52	0.62
7:P3:150:GLY:O	7:P3:154:ASP:HB2	1.98	0.62
7:R3:150:GLY:O	7:R3:154:ASP:HB2	1.98	0.62
7:q3:25:ARG:HG3	7:Z7:25:ARG:CD	2.29	0.62
8:z3:62:TYR:OH	1:A8:203:PHE:HB3	2.00	0.62
1:A4:25:ASP:OD2	2:F4:6:THR:OG1	2.16	0.62
2:D4:33:GLN:CG	2:D4:149:GLU:OE2	2.48	0.62
3:G4:139:VAL:O	3:G4:143:MET:HB2	2.00	0.62
2:J4:150:THR:O	2:J4:154:ILE:N	2.32	0.62
3:V4:153:CYS:HB2	11:V4:202:CYC:CAC	2.28	0.62
2:Y4:137:LYS:O	2:Y4:140:HIS:CD2	2.52	0.62
3:K5:162:LEU:HD21	3:P5:169:LYS:HD2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L5:75:ALA:HB1	2:L5:81:LYS:HG2	1.79	0.62
3:T6:33:GLU:HB2	3:T6:36:LYS:HE2	1.81	0.62
8:M7:125:SER:OG	11:M7:1001:CYC:HMC2	2.00	0.62
8:T7:125:SER:OG	11:T7:1001:CYC:HMC2	2.00	0.62
6:U7:2:ARG:HA	6:U7:58:GLY:HA2	1.81	0.62
7:X7:117:LYS:O	7:X7:117:LYS:HD3	2.00	0.62
3:C8:132:ARG:NH1	3:C8:165:GLU:OE2	2.32	0.62
3:E8:140:ALA:CA	3:E8:143:MET:HG2	2.16	0.62
2:J8:24:LEU:CD2	3:K8:42:SER:CB	2.73	0.62
3:C2:58:GLN:HA	3:C2:58:GLN:OE1	2.00	0.62
2:W2:84:CYS:HB2	11:W2:201:CYC:HAC1	0.64	0.62
3:C4:143:MET:HE2	3:C4:143:MET:HA	1.81	0.62
2:O4:111:LEU:CD2	11:O4:201:CYC:HAB2	2.18	0.62
2:F5:94:MET:CE	11:F5:201:CYC:HBB1	2.22	0.62
3:M6:84:ARG:CZ	11:M6:201:CYC:O2A	2.47	0.62
3:Z6:151:GLY:HA3	11:Z6:202:CYC:CMA	2.30	0.62
11:A7:1001:CYC:HMA1	8:F7:66:THR:HG23	1.81	0.62
2:B8:22:THR:HG22	2:H8:103:GLY:CA	2.30	0.62
2:F8:151:ASN:N	2:F8:151:ASN:HD22	1.96	0.62
4:N8:212:ALA:HB3	4:N8:244:ALA:HB1	1.82	0.62
3:V8:67:ILE:CD1	11:W8:201:CYC:H2A	2.11	0.62
3:V8:153:CYS:SG	11:V8:202:CYC:CAC	2.88	0.62
3:V8:153:CYS:HB2	11:V8:202:CYC:CAC	2.28	0.62
1:A1:219:LEU:CD1	7:u3:75:GLU:HB3	2.29	0.62
3:I1:57:ARG:HH21	2:J1:72:ASN:HD22	1.48	0.62
3:M2:115:GLU:HG2	4:N2:284:SER:HA	1.81	0.62
3:T2:33:GLU:HB2	3:T2:36:LYS:HE2	1.80	0.62
7:d3:82:LEU:CB	1:A6:203:PHE:CD1	2.82	0.62
7:o3:72:ALA:CA	7:o3:77:MET:HB3	2.29	0.62
11:F4:201:CYC:HMC2	3:G4:143:MET:O	1.99	0.62
2:Q4:24:LEU:CB	11:R4:201:CYC:HBB2	2.28	0.62
3:R4:139:VAL:HA	3:R4:142:VAL:HG12	1.82	0.62
2:Y6:84:CYS:HB2	11:Y6:201:CYC:HAC1	0.64	0.62
8:D7:81:CYS:HG	11:D7:1001:CYC:HAC2	1.60	0.62
8:P7:125:SER:OG	11:P7:1001:CYC:HMC2	2.00	0.62
11:X1:203:CYC:HBB1	2:Y1:94:MET:CE	2.22	0.61
3:M2:151:GLY:C	11:M2:202:CYC:CMD	2.73	0.61
3:Z2:84:ARG:CZ	11:Z2:202:CYC:O2A	2.47	0.61
5:03:229:THR:HG22	5:03:229:THR:O	2.00	0.61
11:A4:301:CYC:O2A	3:C4:84:ARG:CZ	2.44	0.61
2:B4:140:HIS:CE1	2:B4:142:LEU:CG	2.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N4:212:ALA:HB3	4:N4:244:ALA:HB1	1.82	0.61
2:Q4:36:PHE:CE1	2:Q4:149:GLU:HG2	2.35	0.61
3:R4:153:CYS:SG	11:R4:201:CYC:CMC	2.88	0.61
2:H5:73:ASN:OD1	2:H5:73:ASN:N	2.28	0.61
2:O6:84:CYS:HB2	11:O6:201:CYC:HAC1	0.64	0.61
2:W6:84:CYS:HB2	11:W6:201:CYC:HAC1	0.64	0.61
11:H7:1001:CYC:HMA1	8:M7:66:THR:HG23	1.81	0.61
11:E8:203:CYC:HAB2	2:F8:111:LEU:CD2	2.18	0.61
4:N8:242:GLU:HG2	4:N8:283:ALA:HB3	1.81	0.61
5:13:637:GLU:OE2	6:N7:46:MET:HE2	2.00	0.61
5:13:662:ARG:NH2	8:c3:109:LEU:O	2.34	0.61
7:o3:77:MET:HE1	1:A4:201:ARG:CB	2.19	0.61
7:u3:151:ALA:C	7:O7:20:PRO:HG3	2.24	0.61
2:J4:64:PRO:HB3	2:J5:57:GLN:O	2.00	0.61
11:L4:202:CYC:HBC3	3:M4:142:VAL:CG2	2.23	0.61
4:N4:242:GLU:HG2	4:N4:283:ALA:HB3	1.81	0.61
3:P4:139:VAL:HA	3:P4:142:VAL:CG1	2.30	0.61
2:Q4:24:LEU:CB	11:R4:201:CYC:HBB3	2.29	0.61
2:W4:19:LEU:HD21	3:X4:95:TYR:HD1	1.61	0.61
2:F5:19:LEU:HB2	3:G5:45:THR:HG21	1.80	0.61
4:N5:36:ARG:NH1	2:S5:14:SER:O	2.33	0.61
11:U6:201:CYC:O1A	3:Z6:57:ARG:CZ	2.48	0.61
3:I8:139:VAL:C	3:I8:142:VAL:HG12	2.25	0.61
11:I8:203:CYC:HAB2	2:J8:111:LEU:CD2	2.18	0.61
2:J8:150:THR:O	2:J8:154:ILE:N	2.32	0.61
3:P8:139:VAL:CA	3:P8:142:VAL:HG12	2.29	0.61
2:Q8:152:ASN:ND2	2:U8:21:ASN:CB	2.62	0.61
2:Q1:24:LEU:HD13	11:R1:202:CYC:HBB2	1.81	0.61
3:G2:39:ASP:OD2	11:G2:201:CYC:HHD	1.99	0.61
11:T2:202:CYC:C4B	2:Y2:145:ASP:OD1	2.48	0.61
5:13:523:VAL:CA	7:J7:106:GLU:OE2	2.46	0.61
7:o3:25:ARG:HG3	7:V7:25:ARG:HD2	1.83	0.61
1:A4:216:ALA:CA	1:A5:203:PHE:CZ	2.80	0.61
3:P4:139:VAL:CA	3:P4:142:VAL:HG12	2.29	0.61
1:A5:106:GLN:NE2	1:A5:179:PRO:O	2.31	0.61
4:N5:6:ALA:HB1	4:N5:9:ARG:HB2	1.82	0.61
2:Q5:24:LEU:HD13	11:R5:202:CYC:HBB2	1.81	0.61
3:X6:57:ARG:HD3	3:X6:57:ARG:C	2.25	0.61
8:F7:125:SER:OG	11:F7:1001:CYC:HMC2	2.00	0.61
8:P7:81:CYS:HG	11:P7:1001:CYC:CAC	2.07	0.61
8:R7:125:SER:OG	11:R7:1001:CYC:HMC2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Y7:125:SER:OG	11:Y7:1001:CYC:HMC2	1.99	0.61
3:E8:39:ASP:OD2	11:E8:202:CYC:HMB3	1.99	0.61
11:F8:201:CYC:HBC3	3:G8:142:VAL:O	2.01	0.61
11:P8:203:CYC:CAB	2:Q8:111:LEU:HD23	2.18	0.61
2:D1:24:LEU:CD1	11:D1:201:CYC:CBB	2.79	0.61
2:O1:24:LEU:HD12	11:P1:202:CYC:HBB1	1.80	0.61
2:U1:84:CYS:CA	11:U1:201:CYC:CAC	2.74	0.61
5:13:837:LEU:HD12	6:b7:42:ARG:CD	2.09	0.61
7:d3:52:LYS:NZ	1:A6:201:ARG:CD	2.63	0.61
8:v3:73:TYR:OH	7:w3:90:ARG:NH2	2.32	0.61
2:Y4:149:GLU:CG	2:Y4:153:TYR:CD2	2.83	0.61
3:P6:84:ARG:CZ	11:P6:201:CYC:O2A	2.47	0.61
2:F8:24:LEU:HD12	2:F8:28:TYR:CE1	2.27	0.61
3:R8:153:CYS:SG	11:R8:201:CYC:CMC	2.88	0.61
3:K1:57:ARG:HH12	11:L1:201:CYC:CGD	2.12	0.61
11:U1:202:CYC:HMD2	3:V1:151:GLY:CA	2.27	0.61
3:V2:84:ARG:NH2	11:V2:201:CYC:O2A	2.34	0.61
7:I3:124:ASP:OD1	7:I3:124:ASP:N	2.32	0.61
7:K3:64:ASP:OD2	7:A7:69:GLY:C	2.43	0.61
7:b3:49:ARG:HH22	8:x3:140:LEU:HD13	1.65	0.61
7:d3:52:LYS:NZ	1:A6:201:ARG:CZ	2.61	0.61
7:d3:82:LEU:CB	1:A6:203:PHE:CG	2.83	0.61
2:D4:18:PHE:CD1	3:E4:91:ARG:HG3	2.35	0.61
11:F4:201:CYC:HBC3	3:G4:142:VAL:O	2.01	0.61
3:C5:151:GLY:CA	11:C5:201:CYC:HMD2	2.27	0.61
3:I6:84:ARG:CZ	11:I6:201:CYC:O2A	2.47	0.61
11:T6:201:CYC:C4B	2:Y6:145:ASP:OD1	2.48	0.61
3:V6:149:THR:OG1	11:V6:202:CYC:HAD1	2.00	0.61
3:C8:143:MET:HE2	3:C8:143:MET:HA	1.81	0.61
3:K8:65:GLN:HB2	3:T8:65:GLN:OE1	2.01	0.61
2:Q8:36:PHE:CE1	2:Q8:149:GLU:HG2	2.35	0.61
2:D1:24:LEU:HD13	11:D1:201:CYC:CBB	2.30	0.61
3:K1:162:LEU:HD21	3:P1:169:LYS:HD2	1.82	0.61
3:R1:57:ARG:HH22	11:S1:201:CYC:CGD	2.12	0.61
3:T2:153:CYS:HG	3:T2:156:LEU:HD12	1.65	0.61
5:13:843:ASP:OD2	6:b7:24:ASN:OD1	2.18	0.61
7:Z3:22:GLU:CB	7:L7:25:ARG:HH22	2.11	0.61
7:o3:60:GLN:N	1:A5:226:GLN:HE22	1.88	0.61
4:N4:2:PRO:HB3	3:R4:77:ARG:NH2	2.11	0.61
3:V4:153:CYS:SG	11:V4:202:CYC:CAC	2.88	0.61
2:D5:24:LEU:HD13	11:D5:201:CYC:CBB	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R5:151:GLY:CA	11:R5:202:CYC:HMD2	2.27	0.61
8:W7:125:SER:OG	11:W7:1001:CYC:HMC2	2.00	0.61
2:B8:17:ARG:HB3	2:B8:17:ARG:HH11	1.66	0.61
3:G8:36:LYS:HB3	3:G8:156:LEU:HD11	1.82	0.61
2:H8:18:PHE:CD1	3:I8:91:ARG:HG3	2.34	0.61
2:L8:151:ASN:N	2:L8:151:ASN:HD22	1.98	0.61
3:T8:51:ILE:CG1	3:T8:141:ILE:HD11	2.31	0.61
3:I2:84:ARG:CZ	11:I2:201:CYC:O2A	2.47	0.61
3:T2:111:ASN:OD1	3:T2:111:ASN:N	2.28	0.61
3:Z2:33:GLU:CA	3:Z2:36:LYS:HE2	2.31	0.61
7:d3:47:ARG:HD2	1:A6:205:THR:HG21	1.82	0.61
7:d3:83:ARG:CA	1:A6:203:PHE:CE1	2.83	0.61
1:A4:203:PHE:HZ	1:A5:219:LEU:HD22	1.66	0.61
2:B4:22:THR:HG22	2:H4:103:GLY:CA	2.30	0.61
3:K4:139:VAL:HA	3:K4:142:VAL:HG13	1.73	0.61
3:T4:51:ILE:CG1	3:T4:141:ILE:HD11	2.31	0.61
3:V4:139:VAL:C	3:V4:142:VAL:HG12	2.26	0.61
2:Y4:149:GLU:CB	2:Y4:153:TYR:HE2	2.07	0.61
2:O5:24:LEU:HD12	11:P5:202:CYC:HBB1	1.81	0.61
2:Q5:21:ASN:HD21	2:U5:152:ASN:CG	2.08	0.61
2:Q5:129:TYR:CE1	11:Q5:201:CYC:HBC3	2.36	0.61
11:X5:203:CYC:HBC3	2:Y5:129:TYR:CE1	2.36	0.61
3:E6:84:ARG:CZ	11:E6:201:CYC:O2A	2.47	0.61
3:E6:111:ASN:OD1	3:E6:111:ASN:N	2.28	0.61
2:Y6:84:CYS:O	11:Y6:201:CYC:CBC	2.48	0.61
3:Z6:33:GLU:CA	3:Z6:36:LYS:HE2	2.31	0.61
2:D8:24:LEU:HD12	2:L8:152:ASN:HD22	1.66	0.61
2:F8:150:THR:HG23	2:F8:154:ILE:CG1	2.31	0.61
2:Q8:24:LEU:HB3	11:R8:201:CYC:HBB3	1.82	0.61
2:S8:149:GLU:C	2:S8:153:TYR:CD2	2.73	0.61
3:V8:159:GLU:HG2	3:V8:163:TYR:CE2	2.35	0.61
3:I1:151:GLY:CA	11:I1:202:CYC:HMD2	2.27	0.61
2:Q1:129:TYR:CE1	11:Q1:201:CYC:HBC3	2.36	0.61
2:S1:94:MET:CE	11:S1:201:CYC:HBB1	2.22	0.61
2:B2:84:CYS:HB2	11:B2:201:CYC:HAC1	0.64	0.61
3:K2:37:ARG:HB2	3:K2:156:LEU:HD21	1.82	0.61
3:V2:84:ARG:CD	3:V2:88:ILE:HD12	2.31	0.61
3:V2:149:THR:OG1	11:V2:202:CYC:HAD1	2.00	0.61
5:03:299:SER:HG	8:S3:87:TYR:HH	1.48	0.61
5:03:442:VAL:CG2	5:03:608:ARG:CG	2.49	0.61
5:13:738:ILE:HD11	5:13:770:ILE:HG23	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d3:52:LYS:HZ1	1:A6:201:ARG:CD	2.13	0.61
8:z3:46:ALA:CB	7:Q7:154:ASP:OD1	2.49	0.61
1:A4:203:PHE:CZ	1:A5:219:LEU:HD22	2.35	0.61
3:C4:145:PRO:HB3	11:C4:201:CYC:CMC	2.25	0.61
2:D4:111:LEU:HD23	11:D4:201:CYC:CAB	2.18	0.61
3:I4:139:VAL:C	3:I4:142:VAL:HG12	2.25	0.61
3:M4:109:CYS:SG	11:M4:202:CYC:HAB1	2.41	0.61
3:P4:109:CYS:SG	11:P4:201:CYC:HAB1	2.41	0.61
3:V4:153:CYS:SG	11:V4:202:CYC:HAC2	2.40	0.61
1:A5:63:GLN:NE2	1:A5:87:SER:OG	2.31	0.61
3:K5:111:ASN:OD1	3:K5:111:ASN:N	2.31	0.61
4:N5:248:THR:CA	4:N5:250:ARG:NH1	2.60	0.61
2:H6:84:CYS:HB2	11:H6:201:CYC:HAC1	0.64	0.61
8:I7:125:SER:OG	11:I7:1001:CYC:HMC2	2.00	0.61
3:G8:139:VAL:O	3:G8:143:MET:HB2	2.00	0.61
3:I8:109:CYS:SG	11:I8:201:CYC:HAB1	2.41	0.61
3:K8:109:CYS:SG	11:K8:201:CYC:HAB1	2.41	0.61
11:N8:301:CYC:HAB1	3:R8:109:CYS:SG	2.41	0.61
2:Q8:24:LEU:CB	11:R8:201:CYC:HBB2	2.28	0.61
3:X8:109:CYS:SG	11:X8:201:CYC:HAB1	2.41	0.61
2:L1:83:LYS:NZ	11:L1:201:CYC:CGA	2.64	0.61
2:O1:129:TYR:HE1	11:O1:201:CYC:HBC3	1.61	0.61
2:S1:25:GLN:HG2	2:Y1:33:GLN:HB2	1.83	0.61
3:I2:151:GLY:CA	11:I2:202:CYC:HMD1	2.24	0.61
3:R2:39:ASP:OD2	11:R2:201:CYC:NA	2.34	0.61
5:03:521:THR:CB	8:D7:10:ASN:ND2	2.63	0.61
5:03:557:ILE:HG23	11:B7:1001:CYC:HMA3	1.82	0.61
7:u3:69:GLY:CA	1:A8:196:TRP:HZ2	2.12	0.61
7:u3:151:ALA:HB1	7:O7:20:PRO:HG3	1.83	0.61
3:E4:39:ASP:OD2	11:E4:202:CYC:HMB3	1.99	0.61
11:F4:201:CYC:CMB	3:G4:39:ASP:OD2	2.49	0.61
2:L4:133:LEU:O	2:L4:137:LYS:HG2	2.00	0.61
2:O4:24:LEU:HB2	11:P4:202:CYC:HBB1	1.83	0.61
3:X4:153:CYS:SG	11:X4:202:CYC:CAC	2.89	0.61
2:F5:83:LYS:NZ	11:F5:201:CYC:CGA	2.64	0.61
2:H5:83:LYS:NZ	11:H5:201:CYC:CGA	2.64	0.61
11:C6:203:CYC:HAC1	2:D6:84:CYS:HB2	0.64	0.61
2:F6:84:CYS:HB2	11:F6:201:CYC:HAC1	0.64	0.61
8:K7:66:THR:HG22	11:L7:1001:CYC:O1A	2.00	0.61
11:A8:301:CYC:HAB1	3:C8:109:CYS:SG	2.41	0.61
2:B8:140:HIS:CE1	2:B8:142:LEU:CB	2.84	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D8:18:PHE:CE1	3:E8:91:ARG:HB2	2.36	0.61
3:K8:155:SER:O	3:K8:158:GLN:HB2	2.00	0.61
11:L8:202:CYC:HBC3	3:M8:142:VAL:CG2	2.23	0.61
2:J1:129:TYR:CE1	11:J1:201:CYC:HBC3	2.36	0.61
11:V1:202:CYC:HBB1	2:W1:94:MET:CE	2.22	0.61
11:X1:203:CYC:CGA	2:Y1:83:LYS:NZ	2.64	0.61
1:A2:201:ARG:HA	7:N3:52:LYS:HE2	1.82	0.61
2:D2:84:CYS:HB2	11:D2:201:CYC:HAC1	0.64	0.61
5:13:832:ASN:HD22	6:b7:38:ARG:HH21	1.46	0.61
7:q3:25:ARG:HG2	7:Z7:25:ARG:CD	2.30	0.61
2:B4:61:SER:OG	2:J5:141:GLY:HA2	1.99	0.61
2:Q4:152:ASN:ND2	2:U4:21:ASN:CB	2.62	0.61
2:U4:19:LEU:CD2	3:V4:95:TYR:CD1	2.81	0.61
11:V5:202:CYC:CGA	2:W5:83:LYS:NZ	2.64	0.61
3:I6:146:ALA:O	3:I6:148:VAL:CG2	2.49	0.61
3:R6:39:ASP:OD2	11:R6:201:CYC:NA	2.34	0.61
3:V6:84:ARG:NH2	11:V6:201:CYC:O2A	2.34	0.61
3:X6:84:ARG:CZ	11:X6:201:CYC:O2A	2.47	0.61
2:F8:21:ASN:CB	2:J8:149:GLU:OE2	2.43	0.61
4:N8:155:VAL:O	4:N8:159:HIS:ND1	2.34	0.61
2:O8:24:LEU:HB2	11:P8:202:CYC:HBB1	1.83	0.61
3:P8:109:CYS:SG	11:P8:201:CYC:HAB1	2.41	0.61
3:V8:139:VAL:C	3:V8:142:VAL:HG12	2.25	0.61
5:03:523:VAL:HG12	7:C7:106:GLU:OE1	2.00	0.60
5:13:843:ASP:OD2	6:b7:23:GLN:CG	2.49	0.60
7:I3:105:GLU:HA	7:I3:109:LEU:HB2	1.83	0.60
8:v3:62:TYR:HD1	1:A4:215:PRO:HG2	1.64	0.60
3:G4:36:LYS:HB3	3:G4:156:LEU:HD11	1.83	0.60
3:G4:109:CYS:SG	11:G4:202:CYC:HAB1	2.41	0.60
3:K4:109:CYS:SG	11:K4:201:CYC:HAB1	2.41	0.60
4:N4:155:VAL:O	4:N4:159:HIS:ND1	2.34	0.60
2:Q4:24:LEU:CD1	11:R4:201:CYC:HBB3	2.31	0.60
2:S4:140:HIS:CE1	2:S4:142:LEU:H	2.19	0.60
2:U4:150:THR:HG23	2:U4:154:ILE:HG13	1.78	0.60
3:M5:151:GLY:CA	11:M5:202:CYC:HMD2	2.27	0.60
1:A6:105:GLU:HB2	1:A6:122:LYS:HD2	1.82	0.60
2:J6:84:CYS:HB2	11:J6:201:CYC:HAC1	0.64	0.60
8:B7:66:THR:CG2	11:C7:1001:CYC:O1A	2.44	0.60
8:D7:66:THR:HG22	11:E7:1001:CYC:O1A	2.01	0.60
7:S7:25:ARG:HH11	7:S7:25:ARG:CG	2.14	0.60
2:D8:18:PHE:CD1	3:E8:91:ARG:HG3	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K8:76:ASN:ND2	2:L8:111:LEU:O	2.34	0.60
3:V8:153:CYS:SG	11:V8:202:CYC:HAC2	2.40	0.60
11:C1:202:CYC:CGA	2:D1:83:LYS:NZ	2.64	0.60
2:H1:83:LYS:NZ	11:H1:201:CYC:CGA	2.64	0.60
2:Q1:21:ASN:HD21	2:U1:152:ASN:CG	2.08	0.60
11:A2:301:CYC:O2A	3:G2:84:ARG:CZ	2.47	0.60
11:E2:203:CYC:CBC	2:F2:84:CYS:O	2.48	0.60
6:23:64:THR:HG21	7:R3:103:PRO:HA	1.83	0.60
7:o3:124:ASP:OD1	7:o3:124:ASP:N	2.32	0.60
8:z3:58:LYS:O	1:A8:206:PRO:CG	2.49	0.60
2:B4:17:ARG:HB3	2:B4:17:ARG:HH11	1.65	0.60
2:B4:64:PRO:HB3	2:J5:138:ALA:HB3	1.66	0.60
2:D4:36:PHE:HZ	2:D4:149:GLU:HG3	1.66	0.60
3:E4:109:CYS:SG	11:E4:201:CYC:HAB1	2.41	0.60
3:G4:139:VAL:HA	3:G4:142:VAL:CG1	2.31	0.60
11:I4:203:CYC:H2A	2:J4:86:ARG:NH2	1.86	0.60
2:L4:149:GLU:CD	2:L4:153:TYR:CE2	2.74	0.60
2:U4:18:PHE:CD1	3:V4:91:ARG:HG3	2.37	0.60
2:D5:24:LEU:CD1	11:D5:201:CYC:CBB	2.78	0.60
2:F6:24:LEU:HD13	11:G6:201:CYC:CBB	2.31	0.60
3:M6:115:GLU:HG2	4:N6:284:SER:HA	1.81	0.60
3:G8:109:CYS:SG	11:G8:202:CYC:HAB1	2.41	0.60
3:K8:151:GLY:HA3	11:K8:202:CYC:HMD2	1.79	0.60
3:M8:109:CYS:SG	11:M8:202:CYC:HAB1	2.41	0.60
2:Q8:24:LEU:CD1	11:R8:201:CYC:HBB3	2.31	0.60
2:H1:73:ASN:OD1	2:H1:73:ASN:N	2.28	0.60
3:M1:111:ASN:OD1	3:M1:111:ASN:N	2.31	0.60
2:J2:17:ARG:O	3:K2:95:TYR:OH	2.19	0.60
2:S2:84:CYS:HB2	11:S2:201:CYC:HAC1	0.64	0.60
5:13:746:TYR:OH	8:t3:83:ARG:NH2	2.33	0.60
7:R3:105:GLU:HA	7:R3:109:LEU:HB2	1.83	0.60
7:T3:105:GLU:HA	7:T3:109:LEU:HB2	1.83	0.60
7:Z3:22:GLU:CA	7:L7:25:ARG:NH2	2.20	0.60
7:d3:105:GLU:HA	7:d3:109:LEU:HB2	1.84	0.60
7:d3:107:ILE:HG23	8:h3:74:THR:HG22	1.82	0.60
7:u3:113:ARG:HH12	7:Q7:117:LYS:CG	2.02	0.60
7:y3:105:GLU:HA	7:y3:109:LEU:HB2	1.83	0.60
2:B4:140:HIS:CE1	2:B4:142:LEU:CB	2.84	0.60
3:I4:109:CYS:SG	11:I4:201:CYC:HAB1	2.41	0.60
3:K4:51:ILE:HD11	3:K4:141:ILE:HD11	1.83	0.60
2:O4:24:LEU:HD11	3:P4:42:SER:CB	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q4:24:LEU:HB3	11:R4:201:CYC:HBB3	1.82	0.60
3:X4:51:ILE:CG1	3:X4:141:ILE:HD11	2.31	0.60
2:D5:24:LEU:HD12	11:D5:201:CYC:HBB1	1.83	0.60
3:E5:111:ASN:OD1	3:E5:111:ASN:N	2.31	0.60
11:N6:301:CYC:O2A	3:R6:84:ARG:CZ	2.47	0.60
3:T6:153:CYS:HB2	11:T6:201:CYC:HAC2	1.83	0.60
11:O8:201:CYC:O2A	3:T8:67:ILE:CD1	2.48	0.60
3:P8:39:ASP:OD1	3:P8:42:SER:OG	2.19	0.60
2:F1:129:TYR:CE1	11:F1:201:CYC:HBC3	2.36	0.60
2:O1:94:MET:CE	11:O1:201:CYC:HBB1	2.22	0.60
2:Q2:84:CYS:HB2	11:Q2:201:CYC:HAC1	0.64	0.60
5:03:521:THR:HG23	5:03:524:SER:CA	2.31	0.60
5:03:577:ASP:OD2	7:A7:14:GLU:HG2	2.01	0.60
7:X3:124:ASP:OD1	7:X3:124:ASP:N	2.32	0.60
7:o3:80:THR:HG23	1:A5:215:PRO:HB3	1.84	0.60
7:u3:76:GLU:HB2	1:A8:203:PHE:CD2	2.27	0.60
3:C4:36:LYS:C	3:C4:156:LEU:HD11	2.26	0.60
3:K4:139:VAL:O	3:K4:142:VAL:N	2.34	0.60
2:O4:148:THR:OG1	11:X4:202:CYC:CMB	2.50	0.60
3:T4:143:MET:CE	3:T4:153:CYS:HB3	2.23	0.60
2:Y4:139:ASN:C	2:Y4:139:ASN:HD22	2.09	0.60
3:Z4:109:CYS:SG	11:Z4:201:CYC:HAB1	2.41	0.60
4:N5:229:SER:HB3	4:N5:238:VAL:HG21	1.83	0.60
8:a7:125:SER:OG	11:a7:1001:CYC:HMC2	2.00	0.60
2:F8:28:TYR:OH	11:F8:201:CYC:C4A	2.50	0.60
2:U8:18:PHE:CD1	3:V8:91:ARG:HG3	2.37	0.60
3:K2:84:ARG:CZ	11:K2:201:CYC:O2A	2.47	0.60
2:O2:84:CYS:HB2	11:T2:201:CYC:HAC1	0.64	0.60
5:03:738:ILE:HD11	5:03:770:ILE:HG23	1.83	0.60
7:P3:105:GLU:HA	7:P3:109:LEU:HB2	1.84	0.60
11:A4:301:CYC:HAB1	3:C4:109:CYS:SG	2.41	0.60
2:F4:150:THR:HG23	2:F4:154:ILE:CG1	2.31	0.60
3:I4:36:LYS:CB	3:I4:156:LEU:HD11	2.30	0.60
11:P4:203:CYC:CAB	2:Q4:111:LEU:HD23	2.18	0.60
3:T4:151:GLY:N	11:T4:202:CYC:CMD	2.65	0.60
2:B5:83:LYS:NZ	11:B5:201:CYC:CGA	2.64	0.60
11:C5:202:CYC:CAC	2:D5:84:CYS:CA	2.74	0.60
11:C5:202:CYC:HBB1	2:D5:94:MET:CE	2.22	0.60
3:Z5:151:GLY:CA	11:Z5:202:CYC:HMD2	2.27	0.60
3:E8:40:ALA:HB2	3:E8:156:LEU:HD13	1.82	0.60
3:K8:139:VAL:O	3:K8:142:VAL:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U8:19:LEU:CD2	3:V8:95:TYR:CD1	2.81	0.60
3:V8:142:VAL:O	11:V8:202:CYC:CBC	2.32	0.60
2:Y8:150:THR:O	2:Y8:154:ILE:CA	2.49	0.60
4:N1:229:SER:HB3	4:N1:238:VAL:HG21	1.84	0.60
2:O1:83:LYS:NZ	11:O1:201:CYC:CGA	2.64	0.60
2:B2:84:CYS:O	11:B2:201:CYC:CBC	2.48	0.60
11:K2:203:CYC:HAC1	2:L2:84:CYS:HB2	0.64	0.60
5:13:717:LYS:CE	6:b7:21:GLU:HG3	2.32	0.60
7:I3:68:PRO:O	7:C7:63:PRO:CG	2.49	0.60
7:X3:20:PRO:HG2	7:H7:151:ALA:O	2.01	0.60
7:d3:78:THR:CG2	1:A6:199:ALA:CB	2.78	0.60
7:w3:113:ARG:O	7:w3:117:LYS:HB2	2.01	0.60
2:B4:22:THR:HG22	2:H4:103:GLY:HA2	1.82	0.60
4:N4:44:GLY:O	4:N4:45:ASN:CB	2.49	0.60
3:R4:132:ARG:O	3:R4:136:LYS:N	2.30	0.60
2:O5:83:LYS:NZ	11:O5:201:CYC:CGA	2.64	0.60
2:B6:28:TYR:OH	11:C6:202:CYC:C3A	2.49	0.60
2:O6:84:CYS:O	11:O6:201:CYC:CBC	2.48	0.60
7:L7:71:ASN:ND2	11:L7:1001:CYC:NC	2.42	0.60
3:E8:109:CYS:SG	11:E8:201:CYC:HAB1	2.41	0.60
2:F8:102:GLY:O	2:J8:22:THR:HG22	2.02	0.60
2:O8:24:LEU:HD11	3:P8:42:SER:CB	2.31	0.60
2:Y8:150:THR:O	2:Y8:154:ILE:HG13	2.02	0.60
2:F1:83:LYS:NZ	11:F1:201:CYC:CGA	2.64	0.60
2:L1:129:TYR:CE1	11:L1:201:CYC:HBC3	2.36	0.60
2:B2:28:TYR:OH	11:C2:202:CYC:C3A	2.49	0.60
3:E2:84:ARG:CZ	11:E2:201:CYC:O2A	2.47	0.60
3:K2:151:GLY:HA3	11:K2:202:CYC:HMD1	1.83	0.60
5:03:557:ILE:CD1	8:B7:83:ARG:NH1	2.65	0.60
7:K3:113:ARG:HH21	7:K3:113:ARG:CG	2.14	0.60
7:Z3:105:GLU:HA	7:Z3:109:LEU:HB2	1.84	0.60
8:l3:73:TYR:OH	10:m3:90:ARG:NH2	2.34	0.60
7:o3:151:ALA:CB	7:V7:20:PRO:HB2	2.29	0.60
8:p3:46:ALA:HA	7:V7:154:ASP:OD1	2.00	0.60
11:u3:1001:CYC:O1A	8:z3:66:THR:HB	2.02	0.60
7:w3:82:LEU:HB3	1:A4:218:PHE:HD1	1.65	0.60
2:D4:140:HIS:ND1	2:D4:142:LEU:CG	2.61	0.60
2:F4:21:ASN:CB	2:J4:149:GLU:OE2	2.43	0.60
2:F4:102:GLY:O	2:J4:22:THR:HG22	2.02	0.60
3:K4:151:GLY:HA3	11:K4:202:CYC:HMD1	1.74	0.60
2:S4:148:THR:C	11:Z4:202:CYC:HBC1	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X4:109:CYS:SG	11:X4:201:CYC:HAB1	2.41	0.60
2:Y4:150:THR:O	2:Y4:154:ILE:CA	2.49	0.60
2:Y4:150:THR:O	2:Y4:154:ILE:CB	2.50	0.60
2:F5:129:TYR:CE1	11:F5:201:CYC:HBC3	2.36	0.60
3:I5:57:ARG:NH2	2:J5:72:ASN:HD22	1.99	0.60
2:J5:129:TYR:CE1	11:J5:201:CYC:HBC3	2.36	0.60
4:N5:93:ARG:HB2	4:N5:187:SER:HB3	1.83	0.60
2:S5:25:GLN:HG2	2:Y5:33:GLN:HB2	1.83	0.60
2:S5:97:TYR:OH	3:T5:17:GLU:O	2.20	0.60
11:B6:201:CYC:O2D	3:G6:57:ARG:NE	2.34	0.60
3:M6:106:ASN:HA	3:M6:110:LEU:HB2	1.82	0.60
3:T6:151:GLY:N	11:T6:201:CYC:NC	2.50	0.60
3:I8:36:LYS:CB	3:I8:156:LEU:HD11	2.30	0.60
3:I8:153:CYS:CB	11:I8:202:CYC:HAC2	2.32	0.60
3:K8:139:VAL:O	3:K8:142:VAL:CA	2.50	0.60
2:L8:133:LEU:O	2:L8:137:LYS:HG2	2.00	0.60
2:S8:140:HIS:CE1	2:S8:142:LEU:HD12	2.37	0.60
2:F1:73:ASN:OD1	2:F1:73:ASN:N	2.28	0.60
2:F1:84:CYS:CA	11:F1:201:CYC:CAC	2.74	0.60
2:F1:94:MET:CE	11:F1:201:CYC:HBB1	2.22	0.60
3:I1:86:MET:HE2	11:I1:201:CYC:CBC	2.32	0.60
2:Q1:28:TYR:OH	11:R1:202:CYC:C4B	2.50	0.60
1:A2:105:GLU:HB2	1:A2:122:LYS:HD2	1.82	0.60
2:B2:24:LEU:CG	11:C2:202:CYC:CBB	2.80	0.60
2:S2:84:CYS:O	11:S2:201:CYC:CBC	2.48	0.60
5:13:717:LYS:HE2	6:b7:21:GLU:HG3	1.83	0.60
7:w3:16:ARG:O	8:x3:94:TYR:OH	2.19	0.60
3:C4:43:ARG:HH22	3:C4:148:VAL:HG21	1.66	0.60
2:D4:19:LEU:HD22	2:D4:19:LEU:N	2.15	0.60
2:F4:24:LEU:HD13	2:F4:28:TYR:HD1	1.59	0.60
2:J4:24:LEU:HD12	3:K4:39:ASP:HB2	1.84	0.60
2:S4:140:HIS:CE1	2:S4:142:LEU:HD12	2.37	0.60
3:T4:153:CYS:O	3:T4:157:GLN:N	2.31	0.60
3:X4:153:CYS:HB2	11:X4:202:CYC:H2C	1.83	0.60
2:H5:84:CYS:CA	11:H5:201:CYC:CAC	2.74	0.60
3:R5:86:MET:HE2	11:R5:201:CYC:CBC	2.32	0.60
3:M6:151:GLY:CA	11:M6:202:CYC:HMD1	2.04	0.60
8:P7:81:CYS:HG	11:P7:1001:CYC:HAC2	1.60	0.60
2:B8:149:GLU:CG	2:B8:153:TYR:HE2	2.13	0.60
3:K8:143:MET:HE3	3:K8:157:GLN:CG	2.31	0.60
3:T8:151:GLY:N	11:T8:202:CYC:CMD	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U8:149:GLU:CG	2:U8:153:TYR:CD2	2.58	0.60
2:Y8:139:ASN:HD22	2:Y8:139:ASN:C	2.09	0.60
4:N1:6:ALA:HB1	4:N1:9:ARG:HB2	1.82	0.60
3:C2:84:ARG:CZ	11:C2:201:CYC:O2A	2.47	0.60
7:X3:69:GLY:CA	7:J7:63:PRO:HD2	2.30	0.60
7:X3:105:GLU:HA	7:X3:109:LEU:HB2	1.83	0.60
7:w3:83:ARG:HH11	1:A4:215:PRO:HG3	1.67	0.60
3:K4:139:VAL:O	3:K4:142:VAL:CA	2.50	0.60
2:Y4:150:THR:CA	2:Y4:153:TYR:HB2	2.32	0.60
1:A5:211:GLN:HE21	1:A5:211:GLN:CA	2.07	0.60
2:L6:84:CYS:HB2	11:L6:201:CYC:HAC1	0.64	0.60
3:M6:92:TYR:CD2	3:M6:109:CYS:SG	2.95	0.60
2:B8:22:THR:HG22	2:H8:103:GLY:HA2	1.82	0.60
2:Q8:24:LEU:CB	11:R8:201:CYC:HBB3	2.29	0.60
3:Z8:109:CYS:SG	11:Z8:201:CYC:HAB1	2.41	0.60
3:M2:92:TYR:CD2	3:M2:109:CYS:SG	2.95	0.60
7:Z3:25:ARG:HB2	7:L7:25:ARG:CZ	2.31	0.60
7:Z3:69:GLY:HA3	7:H7:63:PRO:HD2	1.84	0.60
7:o3:82:LEU:HD12	1:A5:221:MET:HB2	1.83	0.60
7:w3:71:ASN:O	1:A5:201:ARG:NH2	2.35	0.60
2:D4:18:PHE:CE1	3:E4:91:ARG:HB2	2.36	0.60
2:J4:149:GLU:HG3	2:J4:153:TYR:HE2	1.65	0.60
3:V4:143:MET:HA	11:V4:202:CYC:HBC2	1.83	0.60
3:V4:153:CYS:CB	11:V4:202:CYC:CBC	2.80	0.60
1:A5:22:VAL:O	1:A5:27:GLN:NE2	2.35	0.60
3:G5:37:ARG:HH12	3:G5:100:GLY:HA2	1.67	0.60
3:G5:111:ASN:OD1	3:G5:111:ASN:N	2.31	0.60
3:K5:86:MET:HE2	11:K5:201:CYC:CBC	2.32	0.60
11:N5:301:CYC:CBC	3:T5:86:MET:HE2	2.32	0.60
3:P5:37:ARG:HH12	3:P5:100:GLY:HA2	1.67	0.60
2:Q5:83:LYS:NZ	11:Q5:201:CYC:CGA	2.64	0.60
3:V5:86:MET:HE2	11:V5:201:CYC:CBC	2.32	0.60
6:U7:6:ILE:O	6:U7:28:THR:HA	2.02	0.60
2:J8:24:LEU:HD12	3:K8:39:ASP:HB2	1.84	0.60
3:K8:119:ALA:HB1	4:N8:212:ALA:HB1	1.84	0.60
3:Z8:139:VAL:O	3:Z8:143:MET:HB2	2.02	0.60
11:A1:301:CYC:CBC	3:C1:86:MET:HE2	2.32	0.59
2:D1:24:LEU:HD12	11:D1:201:CYC:HBB1	1.83	0.59
3:E1:37:ARG:HH12	3:E1:100:GLY:HA2	1.67	0.59
3:I1:57:ARG:NH2	2:J1:72:ASN:HD22	1.99	0.59
3:K1:37:ARG:HH12	3:K1:100:GLY:HA2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N1:93:ARG:HB2	4:N1:187:SER:HB3	1.83	0.59
11:V1:202:CYC:HBC3	2:W1:129:TYR:CE1	2.36	0.59
3:X1:86:MET:HE2	11:X1:201:CYC:CBC	2.32	0.59
3:X1:153:CYS:SG	11:X1:202:CYC:CAC	2.91	0.59
3:Z1:86:MET:HE2	11:Z1:201:CYC:CBC	2.32	0.59
2:H2:27:LEU:HD23	3:I2:38:SER:OG	2.02	0.59
3:Z2:57:ARG:NH1	11:Z2:201:CYC:O1A	2.34	0.59
2:D4:150:THR:O	2:D4:154:ILE:N	2.29	0.59
2:F4:28:TYR:OH	11:F4:201:CYC:C4A	2.49	0.59
4:N4:45:ASN:ND2	4:N4:175:ALA:C	2.60	0.59
2:O4:36:PHE:HZ	2:O4:149:GLU:HG3	1.64	0.59
3:C5:153:CYS:SG	11:C5:201:CYC:CAC	2.90	0.59
2:B6:84:CYS:O	11:B6:201:CYC:CBC	2.48	0.59
8:D7:81:CYS:HG	11:D7:1001:CYC:CAC	2.08	0.59
1:A8:108:ILE:HG23	1:A8:112:LEU:HD12	1.84	0.59
3:E8:36:LYS:CB	3:E8:156:LEU:HD11	2.32	0.59
3:G8:139:VAL:HA	3:G8:142:VAL:CG1	2.31	0.59
3:K8:51:ILE:HD11	3:K8:141:ILE:HD11	1.83	0.59
3:P8:139:VAL:HA	3:P8:142:VAL:CG1	2.31	0.59
2:S8:151:ASN:O	2:S8:155:ASP:HB2	2.02	0.59
3:V8:109:CYS:SG	11:V8:201:CYC:HAB1	2.41	0.59
2:B1:129:TYR:CE1	11:B1:201:CYC:HBC3	2.36	0.59
2:J1:57:GLN:NE2	2:J8:67:THR:HG21	2.16	0.59
3:R1:153:CYS:SG	11:R1:202:CYC:CAC	2.91	0.59
11:V1:202:CYC:CGA	2:W1:83:LYS:NZ	2.64	0.59
5:13:443:TYR:CZ	11:13:902:CYC:HMA1	2.37	0.59
5:13:523:VAL:HB	8:K7:6:THR:HG22	1.85	0.59
7:K3:105:GLU:HA	7:K3:109:LEU:HB2	1.84	0.59
7:K3:113:ARG:NH1	7:A7:117:LYS:HD3	2.17	0.59
7:f3:105:GLU:HA	7:f3:109:LEU:HB2	1.84	0.59
7:q3:105:GLU:HA	7:q3:109:LEU:HB2	1.83	0.59
3:I4:40:ALA:CB	3:I4:156:LEU:HD13	2.29	0.59
3:K4:65:GLN:HB2	3:T4:65:GLN:OE1	2.01	0.59
3:K4:153:CYS:CB	11:K4:202:CYC:CBC	2.80	0.59
2:S4:151:ASN:O	2:S4:155:ASP:HB2	2.02	0.59
3:V4:109:CYS:SG	11:V4:201:CYC:HAB1	2.41	0.59
2:W4:19:LEU:HD21	3:X4:95:TYR:CE1	2.36	0.59
11:A5:302:CYC:CBC	3:E5:86:MET:HE2	2.32	0.59
2:J5:83:LYS:NZ	11:J5:201:CYC:CGA	2.64	0.59
3:K5:84:ARG:NH1	4:N5:251:TYR:CB	2.61	0.59
3:P5:153:CYS:SG	11:P5:202:CYC:CAC	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U5:83:LYS:NZ	11:U5:201:CYC:CGA	2.64	0.59
3:Z5:86:MET:HE2	11:Z5:201:CYC:CBC	2.32	0.59
3:C6:57:ARG:HH22	11:C6:203:CYC:CGD	1.97	0.59
2:J6:17:ARG:O	3:K6:95:TYR:OH	2.19	0.59
3:V6:151:GLY:HA3	11:V6:202:CYC:HMD2	1.74	0.59
2:D8:150:THR:HA	2:D8:153:TYR:HB2	1.84	0.59
2:O8:148:THR:OG1	11:X8:202:CYC:CMB	2.50	0.59
2:S8:148:THR:C	11:Z8:202:CYC:HBC1	2.27	0.59
11:D1:201:CYC:CAC	3:E1:153:CYS:SG	2.91	0.59
2:J1:94:MET:CE	11:J1:201:CYC:HBB1	2.22	0.59
3:K1:86:MET:HE2	11:K1:201:CYC:CBC	2.32	0.59
3:P1:86:MET:HE2	11:P1:201:CYC:CBC	2.32	0.59
3:P1:153:CYS:SG	11:P1:202:CYC:CAC	2.91	0.59
2:Q1:83:LYS:NZ	11:Q1:201:CYC:CGA	2.64	0.59
3:Z1:37:ARG:HH12	3:Z1:100:GLY:HA2	1.67	0.59
5:03:245:GLN:NE2	9:Q3:92:TYR:OH	2.35	0.59
5:13:843:ASP:OD2	6:b7:23:GLN:HG2	2.02	0.59
7:N3:105:GLU:HA	7:N3:109:LEU:HB2	1.84	0.59
7:o3:90:ARG:NH2	8:t3:73:TYR:OH	2.30	0.59
3:K4:155:SER:O	3:K4:158:GLN:HB2	2.00	0.59
2:L4:17:ARG:NH1	2:L4:17:ARG:HB2	2.18	0.59
11:O4:201:CYC:O2A	3:T4:67:ILE:CD1	2.48	0.59
3:P6:57:ARG:NH2	2:Q6:72:ASN:ND2	2.50	0.59
2:W6:84:CYS:O	11:W6:201:CYC:CBC	2.48	0.59
7:O7:71:ASN:ND2	11:O7:1001:CYC:NC	2.42	0.59
2:B8:111:LEU:CD2	11:G8:201:CYC:HAB2	2.18	0.59
2:W8:19:LEU:HD21	3:X8:95:TYR:CE1	2.36	0.59
3:X8:51:ILE:CG1	3:X8:141:ILE:HD11	2.31	0.59
2:Y8:99:LEU:HD11	2:Y8:149:GLU:OE1	2.01	0.59
1:A1:22:VAL:O	1:A1:27:GLN:NE2	2.35	0.59
2:F1:72:ASN:O	11:F1:201:CYC:CGD	2.51	0.59
2:J1:58:ALA:HB2	2:J8:64:PRO:HB2	1.83	0.59
11:N1:301:CYC:CBC	3:T1:86:MET:HE2	2.32	0.59
3:T2:151:GLY:N	11:T2:202:CYC:NC	2.50	0.59
3:T2:153:CYS:HB2	11:T2:202:CYC:HAC2	1.83	0.59
2:U2:84:CYS:O	11:Z2:201:CYC:CBC	2.48	0.59
8:v3:62:TYR:CZ	1:A5:203:PHE:HA	2.36	0.59
1:A4:36:VAL:O	1:A4:38:SER:N	2.35	0.59
2:B4:64:PRO:CA	2:J5:138:ALA:HB1	2.32	0.59
2:F4:25:GLN:HE21	2:J4:33:GLN:HG3	1.56	0.59
3:G4:143:MET:HE2	3:G4:157:GLN:CG	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L4:151:ASN:N	2:L4:151:ASN:HD22	1.98	0.59
11:L4:202:CYC:HBC1	3:M4:142:VAL:CG2	2.32	0.59
2:U4:111:LEU:HD23	11:U4:201:CYC:CAB	2.18	0.59
11:A5:301:CYC:CBC	3:C5:86:MET:HE2	2.32	0.59
3:K5:57:ARG:CZ	11:L5:201:CYC:O2D	2.51	0.59
3:K5:153:CYS:SG	11:K5:202:CYC:CAC	2.91	0.59
3:M5:153:CYS:SG	11:M5:202:CYC:CAC	2.91	0.59
11:U5:202:CYC:CAC	3:V5:153:CYS:SG	2.91	0.59
11:X5:203:CYC:HBB1	2:Y5:94:MET:CE	2.22	0.59
4:N6:248:THR:O	4:N6:250:ARG:NH2	2.35	0.59
3:V6:111:ASN:OD1	3:V6:111:ASN:N	2.28	0.59
2:Q8:137:LYS:HA	2:Q8:140:HIS:CD2	2.38	0.59
3:T8:151:GLY:N	11:T8:202:CYC:HMD2	2.17	0.59
1:A1:52:GLN:NE2	1:A1:157:PRO:O	2.35	0.59
2:B1:72:ASN:O	11:B1:201:CYC:CGD	2.51	0.59
2:B1:84:CYS:CA	11:B1:201:CYC:CAC	2.74	0.59
3:C1:153:CYS:SG	11:C1:201:CYC:CAC	2.90	0.59
3:G1:37:ARG:HH12	3:G1:100:GLY:HA2	1.67	0.59
2:H1:72:ASN:O	11:H1:201:CYC:CGD	2.51	0.59
3:R1:111:ASN:OD1	3:R1:111:ASN:N	2.31	0.59
3:V1:86:MET:HE2	11:V1:201:CYC:CBC	2.32	0.59
2:H2:84:CYS:HB2	11:H2:201:CYC:HAC1	0.64	0.59
3:M2:106:ASN:HA	3:M2:110:LEU:HB2	1.82	0.59
3:Z2:155:SER:O	3:Z2:158:GLN:CB	2.50	0.59
7:G3:105:GLU:HA	7:G3:109:LEU:HB2	1.84	0.59
7:K3:12:ASP:HA	8:L3:90:ARG:HH12	1.67	0.59
7:w3:105:GLU:HA	7:w3:109:LEU:HB2	1.84	0.59
2:F4:24:LEU:HD13	2:F4:24:LEU:O	2.01	0.59
3:I4:151:GLY:HA3	11:I4:202:CYC:HMD2	1.78	0.59
2:J4:36:PHE:CD1	2:J4:146:ALA:HA	2.37	0.59
11:N4:301:CYC:HAB1	3:R4:109:CYS:SG	2.41	0.59
2:Q4:137:LYS:HA	2:Q4:140:HIS:CD2	2.38	0.59
3:T4:109:CYS:SG	11:T4:201:CYC:HAB1	2.41	0.59
11:D5:201:CYC:CAC	3:E5:153:CYS:SG	2.91	0.59
2:S5:129:TYR:CE1	11:S5:201:CYC:HBC3	2.36	0.59
3:Z5:153:CYS:SG	11:Z5:202:CYC:CAC	2.90	0.59
2:B6:84:CYS:HB2	11:B6:201:CYC:HAC1	0.64	0.59
3:K6:85:ASP:OD2	11:K6:201:CYC:NA	2.36	0.59
3:P6:85:ASP:OD2	11:P6:201:CYC:NA	2.36	0.59
3:T6:36:LYS:CD	3:T6:152:ASP:O	2.39	0.59
3:X6:36:LYS:CE	11:X6:202:CYC:O1D	2.46	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A7:71:ASN:ND2	11:A7:1001:CYC:NC	2.42	0.59
2:B8:36:PHE:CZ	2:B8:149:GLU:OE2	2.55	0.59
3:C8:40:ALA:CB	3:C8:156:LEU:HD12	2.13	0.59
2:F8:19:LEU:CD1	2:F8:23:GLU:CG	2.51	0.59
11:F8:201:CYC:CMB	3:G8:39:ASP:OD2	2.49	0.59
3:T8:109:CYS:SG	11:T8:201:CYC:HAB1	2.41	0.59
3:V8:153:CYS:CB	11:V8:202:CYC:CBC	2.80	0.59
3:I1:153:CYS:SG	11:I1:202:CYC:CAC	2.91	0.59
2:J1:72:ASN:O	11:J1:201:CYC:CGD	2.51	0.59
2:J1:73:ASN:OD1	2:J1:73:ASN:N	2.28	0.59
3:M1:86:MET:HE2	11:M1:201:CYC:CBC	2.32	0.59
11:X1:203:CYC:HBC3	2:Y1:129:TYR:CE1	2.36	0.59
3:P2:85:ASP:OD2	11:P2:201:CYC:NA	2.36	0.59
5:13:521:THR:HG23	5:13:524:SER:CA	2.32	0.59
7:T3:94:TYR:OH	8:U3:17:LYS:O	2.21	0.59
8:a3:22:SER:OG	9:g3:139:LYS:NZ	2.36	0.59
7:d3:23:LEU:HD22	8:e3:38:VAL:HG13	1.84	0.59
7:d3:52:LYS:CE	1:A6:201:ARG:CG	2.74	0.59
7:d3:52:LYS:HE2	1:A6:201:ARG:HG3	1.79	0.59
7:k3:105:GLU:HA	7:k3:109:LEU:HB2	1.83	0.59
8:t3:59:SER:O	1:A4:206:PRO:HG3	2.03	0.59
7:u3:105:GLU:HA	7:u3:109:LEU:HB2	1.83	0.59
3:M4:140:ALA:HA	3:M4:143:MET:HB3	1.85	0.59
2:O4:21:ASN:OD1	2:W4:149:GLU:CG	2.49	0.59
2:O4:154:ILE:O	2:O4:158:ILE:HG13	2.02	0.59
3:Z4:139:VAL:O	3:Z4:143:MET:HB2	2.02	0.59
2:L5:83:LYS:NZ	11:L5:201:CYC:CGA	2.64	0.59
11:X5:203:CYC:CGA	2:Y5:83:LYS:NZ	2.64	0.59
3:E6:85:ASP:OD2	11:E6:201:CYC:NA	2.36	0.59
3:X6:85:ASP:OD2	11:X6:201:CYC:NA	2.36	0.59
3:Z6:85:ASP:OD2	11:Z6:201:CYC:NA	2.36	0.59
8:T7:83:ARG:CZ	11:T7:1001:CYC:O2A	2.51	0.59
8:Y7:87:TYR:OH	6:b7:18:THR:O	2.11	0.59
2:J8:36:PHE:CD1	2:J8:146:ALA:HA	2.37	0.59
3:K8:153:CYS:CB	11:K8:202:CYC:CBC	2.80	0.59
2:S8:140:HIS:CE1	2:S8:142:LEU:H	2.19	0.59
3:V8:143:MET:HA	11:V8:202:CYC:HBC2	1.83	0.59
2:W8:149:GLU:C	2:W8:153:TYR:HD2	2.11	0.59
3:K1:153:CYS:SG	11:K1:202:CYC:CAC	2.91	0.59
3:M1:153:CYS:SG	11:M1:202:CYC:CAC	2.91	0.59
3:R1:86:MET:HE2	11:R1:201:CYC:CBC	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U1:72:ASN:O	11:U1:201:CYC:CGD	2.51	0.59
3:C2:85:ASP:OD2	11:C2:201:CYC:NA	2.36	0.59
2:F2:24:LEU:HD13	11:G2:201:CYC:CBB	2.31	0.59
11:N2:301:CYC:NA	3:R2:85:ASP:OD2	2.36	0.59
3:X2:37:ARG:CA	3:X2:156:LEU:HD21	2.33	0.59
3:Z2:151:GLY:HA3	11:Z2:203:CYC:HMA1	1.85	0.59
5:13:613:SER:O	5:13:617:THR:HG23	2.02	0.59
7:N3:124:ASP:OD1	7:N3:124:ASP:N	2.32	0.59
7:y3:124:ASP:OD1	7:y3:124:ASP:N	2.32	0.59
1:A4:215:PRO:HB2	1:A5:203:PHE:CE1	2.35	0.59
2:H4:111:LEU:HD23	11:M4:201:CYC:CAB	2.18	0.59
3:K4:119:ALA:HB1	4:N4:212:ALA:HB1	1.84	0.59
2:Q4:98:CYS:SG	2:Q4:153:TYR:CD1	2.95	0.59
2:S4:36:PHE:CE2	2:S4:145:ASP:HB3	2.38	0.59
2:Y4:150:THR:O	2:Y4:154:ILE:HG13	2.02	0.59
3:G5:153:CYS:SG	11:G5:202:CYC:CAC	2.91	0.59
3:K5:37:ARG:HH12	3:K5:100:GLY:HA2	1.67	0.59
2:L5:94:MET:CE	11:L5:201:CYC:HBB1	2.22	0.59
4:N5:210:GLY:HA3	4:N5:283:ALA:HA	1.84	0.59
3:T5:153:CYS:SG	11:T5:201:CYC:CAC	2.91	0.59
2:U5:72:ASN:O	11:U5:201:CYC:CGD	2.51	0.59
3:C8:36:LYS:C	3:C8:156:LEU:HD11	2.26	0.59
2:O8:140:HIS:CE1	2:O8:142:LEU:CG	2.80	0.59
3:X8:153:CYS:HB2	11:X8:202:CYC:H2C	1.83	0.59
2:J1:83:LYS:NZ	11:J1:201:CYC:CGA	2.64	0.59
3:M1:37:ARG:HH12	3:M1:100:GLY:HA2	1.67	0.59
4:N1:210:GLY:HA3	4:N1:283:ALA:HA	1.84	0.59
2:S1:72:ASN:O	11:S1:201:CYC:CGD	2.51	0.59
11:V1:202:CYC:CGD	2:W1:72:ASN:O	2.51	0.59
3:M2:85:ASP:OD2	11:M2:201:CYC:NA	2.36	0.59
3:X2:85:ASP:OD2	11:X2:201:CYC:NA	2.36	0.59
11:X2:203:CYC:CBC	2:Y2:84:CYS:O	2.48	0.59
5:03:39:GLU:OE2	7:T3:6:LYS:NZ	2.30	0.59
1:A4:196:TRP:CZ2	7:X7:63:PRO:HG3	2.37	0.59
1:A4:203:PHE:CE1	1:A5:215:PRO:C	2.81	0.59
2:B4:13:ASP:OD1	3:C4:108:ARG:NH1	2.35	0.59
3:K4:143:MET:HE3	3:K4:157:GLN:CG	2.31	0.59
2:O4:24:LEU:HD13	11:P4:202:CYC:HBB3	1.85	0.59
3:V4:67:ILE:CD1	11:W4:201:CYC:H2A	2.16	0.59
2:B5:72:ASN:O	11:B5:201:CYC:CGD	2.51	0.59
2:Q5:28:TYR:OH	11:R5:202:CYC:C4B	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R5:153:CYS:SG	11:R5:202:CYC:CAC	2.91	0.59
3:X5:153:CYS:SG	11:X5:202:CYC:CAC	2.91	0.59
2:H6:84:CYS:O	11:H6:201:CYC:CBC	2.48	0.59
3:I6:150:SER:C	11:I6:202:CYC:HMD2	2.28	0.59
2:U6:84:CYS:HB2	11:U6:201:CYC:HAC1	0.64	0.59
8:B7:102:SER:O	8:B7:106:GLU:HB2	2.03	0.59
8:P7:10:ASN:HD21	6:U7:62:THR:HG23	1.68	0.59
8:R7:83:ARG:CZ	11:R7:1001:CYC:O2A	2.51	0.59
3:C8:43:ARG:HH22	3:C8:148:VAL:HG21	1.66	0.59
3:C1:37:ARG:HH12	3:C1:100:GLY:HA2	1.67	0.59
3:I1:111:ASN:OD1	3:I1:111:ASN:N	2.31	0.59
3:T1:153:CYS:SG	11:T1:201:CYC:CAC	2.91	0.59
2:U1:129:TYR:CE1	11:U1:201:CYC:HBC3	2.36	0.59
1:A2:102:ARG:NH2	1:A2:106:GLN:OE1	2.36	0.59
11:N2:302:CYC:NA	3:T2:85:ASP:OD2	2.36	0.59
5:03:613:SER:O	5:03:617:THR:HG23	2.03	0.59
5:13:525:PHE:CZ	7:J7:102:THR:HG21	2.37	0.59
7:i3:105:GLU:HA	7:i3:109:LEU:HB2	1.84	0.59
7:o3:60:GLN:CA	1:A5:226:GLN:HE22	2.10	0.59
7:o3:105:GLU:HA	7:o3:109:LEU:HB2	1.83	0.59
1:A4:78:ARG:NH2	1:A4:148:MET:SD	2.76	0.59
3:T4:142:VAL:HG23	11:T4:202:CYC:CBC	2.32	0.59
3:Z4:153:CYS:SG	3:Z4:156:LEU:CB	2.90	0.59
11:C5:202:CYC:CGD	2:D5:72:ASN:O	2.51	0.59
2:H5:72:ASN:O	11:H5:201:CYC:CGD	2.51	0.59
2:H5:129:TYR:CE1	11:H5:201:CYC:HBC3	2.36	0.59
3:I5:153:CYS:SG	11:I5:202:CYC:CAC	2.91	0.59
3:M5:37:ARG:HH12	3:M5:100:GLY:HA2	1.67	0.59
3:M5:86:MET:HE2	11:M5:201:CYC:CBC	2.32	0.59
2:O5:72:ASN:O	11:O5:201:CYC:CGD	2.51	0.59
3:X5:86:MET:HE2	11:X5:201:CYC:CBC	2.32	0.59
1:A6:127:ILE:HD11	3:C6:84:ARG:HD3	1.85	0.59
2:Q6:24:LEU:CD1	11:R6:201:CYC:CBB	2.81	0.59
3:V6:84:ARG:CD	3:V6:88:ILE:HD12	2.31	0.59
8:B7:83:ARG:CZ	11:B7:1001:CYC:O2A	2.51	0.59
1:A8:78:ARG:NH2	1:A8:148:MET:SD	2.76	0.59
2:F8:149:GLU:HG3	2:F8:153:TYR:HE2	1.68	0.59
3:M8:140:ALA:HA	3:M8:143:MET:HB3	1.85	0.59
2:O8:21:ASN:OD1	2:W8:149:GLU:CG	2.49	0.59
2:O8:154:ILE:O	2:O8:158:ILE:HG13	2.02	0.59
2:Y8:150:THR:O	2:Y8:154:ILE:CB	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S1:97:TYR:OH	3:T1:17:GLU:O	2.20	0.59
11:U1:202:CYC:CAC	3:V1:153:CYS:SG	2.91	0.59
3:Z1:153:CYS:SG	11:Z1:202:CYC:CAC	2.91	0.59
3:I2:85:ASP:OD2	11:I2:201:CYC:NA	2.36	0.59
3:I2:150:SER:C	11:I2:202:CYC:HMD2	2.28	0.59
7:I3:117:LYS:HZ1	7:C7:113:ARG:HH12	1.44	0.59
8:U3:62:TYR:HE1	10:V3:80:GLN:HG3	1.67	0.59
7:d3:52:LYS:HG2	1:A6:200:VAL:CG1	2.25	0.59
7:q3:124:ASP:OD1	7:q3:124:ASP:N	2.32	0.59
7:u3:113:ARG:NE	7:u3:123:VAL:HG21	2.17	0.59
2:D4:150:THR:HA	2:D4:153:TYR:HB2	1.84	0.59
3:C5:37:ARG:HH12	3:C5:100:GLY:HA2	1.67	0.59
2:J5:72:ASN:O	11:J5:201:CYC:CGD	2.51	0.59
11:V5:202:CYC:CGD	2:W5:72:ASN:O	2.51	0.59
3:I6:85:ASP:OD2	11:I6:201:CYC:NA	2.36	0.59
3:K6:158:GLN:HG2	3:P6:162:LEU:HD13	1.85	0.59
4:N6:182:ILE:HD13	3:T6:119:ALA:HB2	1.85	0.59
11:N6:301:CYC:NA	3:R6:85:ASP:OD2	2.36	0.59
11:N6:302:CYC:NA	3:T6:85:ASP:OD2	2.36	0.59
3:V6:57:ARG:HA	3:V6:57:ARG:NE	2.12	0.59
7:C7:71:ASN:ND2	11:C7:1001:CYC:NC	2.42	0.59
8:T7:102:SER:O	8:T7:106:GLU:HB2	2.03	0.59
2:B8:13:ASP:OD1	3:C8:108:ARG:NH1	2.35	0.59
2:Q8:98:CYS:SG	2:Q8:153:TYR:CD1	2.95	0.59
2:D1:24:LEU:CD1	11:D1:201:CYC:HBB1	2.33	0.58
3:I1:37:ARG:HH12	3:I1:100:GLY:HA2	1.67	0.58
3:R1:37:ARG:HH12	3:R1:100:GLY:HA2	1.67	0.58
4:N2:182:ILE:HD13	3:T2:119:ALA:HB2	1.85	0.58
4:N2:204:PRO:HB2	3:T2:111:ASN:HB2	1.85	0.58
7:d3:83:ARG:N	1:A6:203:PHE:CZ	2.71	0.58
7:o3:79:ALA:CB	1:A5:218:PHE:O	2.49	0.58
7:u3:90:ARG:NH2	8:z3:73:TYR:OH	2.31	0.58
7:w3:82:LEU:HB3	1:A4:218:PHE:CD1	2.38	0.58
3:P4:142:VAL:HG22	11:P4:202:CYC:CBC	2.33	0.58
3:T4:36:LYS:C	3:T4:156:LEU:HD11	2.28	0.58
2:U4:149:GLU:CG	2:U4:153:TYR:CD2	2.58	0.58
3:E5:37:ARG:HH12	3:E5:100:GLY:HA2	1.67	0.58
3:G5:86:MET:HE2	11:G5:201:CYC:CBC	2.32	0.58
3:I5:37:ARG:HH12	3:I5:100:GLY:HA2	1.67	0.58
2:L5:72:ASN:O	11:L5:201:CYC:CGD	2.51	0.58
2:Q5:72:ASN:O	11:Q5:201:CYC:CGD	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z5:37:ARG:HH12	3:Z5:100:GLY:HA2	1.67	0.58
1:A6:102:ARG:NH2	1:A6:106:GLN:OE1	2.36	0.58
2:F6:84:CYS:O	11:F6:201:CYC:CBC	2.48	0.58
2:F8:149:GLU:CG	2:F8:153:TYR:HE2	2.16	0.58
2:J8:150:THR:CA	2:J8:153:TYR:HB2	2.33	0.58
3:T8:143:MET:HE2	3:T8:143:MET:CA	2.24	0.58
2:Y8:150:THR:CA	2:Y8:153:TYR:HB2	2.32	0.58
1:A1:203:PHE:H	7:q3:76:GLU:HG3	1.68	0.58
3:G1:153:CYS:SG	11:G1:202:CYC:CAC	2.91	0.58
2:H1:129:TYR:CE1	11:H1:201:CYC:HBC3	2.36	0.58
2:L1:72:ASN:O	11:L1:201:CYC:CGD	2.51	0.58
3:P1:37:ARG:HH12	3:P1:100:GLY:HA2	1.67	0.58
2:W1:28:TYR:HH	11:X1:202:CYC:HB	1.50	0.58
2:W2:24:LEU:HB2	11:X2:202:CYC:HBB1	1.85	0.58
5:03:453:GLN:O	5:03:599:ARG:NH2	2.36	0.58
7:G3:68:PRO:HG2	7:f3:66:VAL:HG11	1.84	0.58
7:K3:25:ARG:HH22	7:E7:21:GLY:HA3	1.65	0.58
7:d3:52:LYS:CG	1:A6:200:VAL:HG12	2.24	0.58
7:s3:105:GLU:HA	7:s3:109:LEU:HB2	1.83	0.58
7:w3:73:TYR:HH	1:A5:196:TRP:CB	2.13	0.58
1:A4:194:VAL:HG23	1:A4:196:TRP:CG	2.38	0.58
3:C4:139:VAL:CA	3:C4:142:VAL:CG1	2.78	0.58
2:F4:149:GLU:HG3	2:F4:153:TYR:HE2	1.68	0.58
1:A5:17:VAL:HB	3:E5:84:ARG:HH11	1.68	0.58
2:B5:149:GLU:OE2	11:I5:202:CYC:CAB	2.40	0.58
11:C5:202:CYC:CGA	2:D5:83:LYS:NZ	2.64	0.58
3:R5:37:ARG:HH12	3:R5:100:GLY:HA2	1.67	0.58
3:M6:85:ASP:OD2	11:M6:201:CYC:NA	2.36	0.58
8:K7:102:SER:O	8:K7:106:GLU:HB2	2.03	0.58
3:E8:156:LEU:CD1	11:E8:202:CYC:HBC1	2.33	0.58
2:Y8:99:LEU:HD11	2:Y8:149:GLU:CD	2.28	0.58
3:G1:86:MET:HE2	11:G1:201:CYC:CBC	2.32	0.58
3:I2:146:ALA:O	3:I2:148:VAL:CG2	2.49	0.58
3:K2:57:ARG:NH2	11:K2:203:CYC:O1A	2.36	0.58
3:X2:37:ARG:O	3:X2:41:VAL:HG23	2.04	0.58
3:Z2:57:ARG:HH12	11:Z2:201:CYC:CGA	2.16	0.58
5:13:443:TYR:HH	11:13:902:CYC:HBA1	0.64	0.58
7:q3:25:ARG:HG3	7:Z7:25:ARG:HD2	1.85	0.58
2:B4:21:ASN:HD21	2:H4:152:ASN:ND2	2.01	0.58
2:F4:19:LEU:HG	2:F4:23:GLU:HG2	1.82	0.58
2:J4:150:THR:CA	2:J4:153:TYR:HB2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X4:139:VAL:HA	3:X4:142:VAL:HG12	1.82	0.58
1:A5:209:VAL:HB	1:A5:210:PRO:HD3	1.76	0.58
2:B5:94:MET:CE	11:B5:201:CYC:HBB1	2.22	0.58
11:C5:202:CYC:HBC3	2:D5:129:TYR:CE1	2.36	0.58
2:S5:72:ASN:O	11:S5:201:CYC:CGD	2.51	0.58
3:X5:37:ARG:HH12	3:X5:100:GLY:HA2	1.67	0.58
3:X6:162:LEU:O	3:X6:166:THR:OG1	2.22	0.58
3:Z6:154:SER:O	3:Z6:157:GLN:HB3	2.03	0.58
8:M7:102:SER:O	8:M7:106:GLU:HB2	2.03	0.58
7:Z7:71:ASN:ND2	11:Z7:1001:CYC:NC	2.42	0.58
3:T8:36:LYS:C	3:T8:156:LEU:HD11	2.28	0.58
1:A1:215:PRO:HB2	1:A8:203:PHE:CE1	2.38	0.58
11:C1:202:CYC:CGD	2:D1:72:ASN:O	2.51	0.58
11:C1:202:CYC:HBC3	2:D1:129:TYR:CE1	2.36	0.58
2:Q1:72:ASN:O	11:Q1:201:CYC:CGD	2.51	0.58
3:K2:162:LEU:O	3:K2:166:THR:OG1	2.22	0.58
3:T2:153:CYS:SG	11:T2:202:CYC:HAC2	2.44	0.58
5:03:443:TYR:CE2	5:03:611:ILE:HG21	2.38	0.58
5:13:523:VAL:CA	7:J7:106:GLU:OE1	2.51	0.58
7:q3:52:LYS:CG	1:A8:221:MET:CG	2.82	0.58
2:U4:83:LYS:HZ1	11:U4:201:CYC:H2A	1.49	0.58
3:Z4:139:VAL:O	3:Z4:142:VAL:CG1	2.45	0.58
2:F5:72:ASN:O	11:F5:201:CYC:CGD	2.51	0.58
2:S5:83:LYS:NZ	11:S5:201:CYC:CGA	2.64	0.58
2:U5:129:TYR:CE1	11:U5:201:CYC:HBC3	2.36	0.58
3:V5:37:ARG:HH12	3:V5:100:GLY:HA2	1.67	0.58
3:P6:162:LEU:O	3:P6:166:THR:OG1	2.22	0.58
3:R6:39:ASP:CG	11:R6:201:CYC:HHB	2.29	0.58
3:V6:85:ASP:OD2	11:V6:201:CYC:NA	2.36	0.58
8:D7:102:SER:O	8:D7:106:GLU:HB2	2.03	0.58
8:F7:102:SER:O	8:F7:106:GLU:HB2	2.03	0.58
8:W7:102:SER:O	8:W7:106:GLU:HB2	2.03	0.58
2:O8:24:LEU:HD13	11:P8:202:CYC:HBB3	1.85	0.58
3:X8:139:VAL:C	3:X8:142:VAL:HG13	2.29	0.58
11:A1:302:CYC:CBC	3:E1:86:MET:HE2	2.32	0.58
2:B1:24:LEU:HD12	11:C1:201:CYC:HBB1	1.84	0.58
2:O1:72:ASN:O	11:O1:201:CYC:CGD	2.51	0.58
3:T1:111:ASN:OD1	3:T1:111:ASN:N	2.31	0.58
1:A2:203:PHE:HB2	7:N3:82:LEU:HD12	1.84	0.58
11:A2:301:CYC:NA	3:G2:85:ASP:OD2	2.36	0.58
3:E2:85:ASP:OD2	11:E2:201:CYC:NA	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X2:162:LEU:O	3:X2:166:THR:OG1	2.22	0.58
11:X2:203:CYC:HAC1	2:Y2:84:CYS:HB2	0.64	0.58
3:Z2:162:LEU:O	3:Z2:166:THR:OG1	2.22	0.58
5:03:185:ALA:HB2	11:03:901:CYC:HBD2	1.85	0.58
5:03:854:PRO:HB2	5:03:857:ASN:HB2	1.86	0.58
6:33:37:PHE:HD1	11:n3:1001:CYC:HMA2	1.69	0.58
7:I3:63:PRO:HG2	7:C7:68:PRO:O	2.03	0.58
3:K4:139:VAL:C	3:K4:143:MET:H	2.07	0.58
3:P4:74:TYR:OH	2:Q4:93:ARG:NH1	2.37	0.58
3:T4:39:ASP:OD1	3:T4:42:SER:OG	2.19	0.58
3:V4:142:VAL:O	11:V4:202:CYC:CBC	2.32	0.58
11:A6:301:CYC:NA	3:G6:85:ASP:OD2	2.36	0.58
3:C6:85:ASP:OD2	11:C6:201:CYC:NA	2.36	0.58
3:G6:162:LEU:O	3:G6:166:THR:OG1	2.22	0.58
11:U6:201:CYC:O1D	3:Z6:57:ARG:NH2	2.37	0.58
3:V6:84:ARG:HD3	3:V6:88:ILE:HD11	1.85	0.58
2:B8:152:ASN:ND2	2:H8:21:ASN:HA	2.18	0.58
3:G8:143:MET:HE2	3:G8:157:GLN:CG	2.33	0.58
3:T8:39:ASP:OD1	3:T8:42:SER:OG	2.19	0.58
3:V8:151:GLY:CA	11:V8:202:CYC:HMD3	2.17	0.58
3:K1:57:ARG:CZ	11:L1:201:CYC:O2D	2.51	0.58
3:T1:37:ARG:HH12	3:T1:100:GLY:HA2	1.67	0.58
3:V1:111:ASN:OD1	3:V1:111:ASN:N	2.31	0.58
11:X1:203:CYC:CGD	2:Y1:72:ASN:O	2.51	0.58
3:K2:85:ASP:OD2	11:K2:201:CYC:NA	2.36	0.58
3:Z2:85:ASP:OD2	11:Z2:202:CYC:NA	2.36	0.58
5:03:837:LEU:HD11	6:U7:42:ARG:CD	2.32	0.58
5:13:453:GLN:O	5:13:599:ARG:NH2	2.36	0.58
5:13:522:ASN:OD1	8:K7:13:ASP:OD2	2.21	0.58
7:I3:3:ILE:CD1	7:A7:25:ARG:CZ	2.82	0.58
7:Z3:25:ARG:HB2	7:L7:25:ARG:NE	2.19	0.58
1:A4:108:ILE:HG23	1:A4:112:LEU:HD12	1.84	0.58
2:H5:94:MET:CE	11:H5:201:CYC:HBB1	2.22	0.58
3:T5:37:ARG:HH12	3:T5:100:GLY:HA2	1.67	0.58
11:V5:202:CYC:HBC3	2:W5:129:TYR:CE1	2.36	0.58
3:Z6:151:GLY:HA3	11:Z6:202:CYC:HMA1	1.85	0.58
3:C8:139:VAL:O	3:C8:142:VAL:HG12	2.00	0.58
2:L1:94:MET:CE	11:L1:201:CYC:HBB1	2.22	0.58
2:U1:83:LYS:NZ	11:U1:201:CYC:CGA	2.64	0.58
3:I2:35:THR:O	3:I2:38:SER:HB2	2.04	0.58
11:I2:203:CYC:CBC	2:J2:84:CYS:O	2.48	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K2:40:ALA:HB3	3:K2:156:LEU:HD13	1.86	0.58
3:R2:39:ASP:CG	11:R2:201:CYC:HHB	2.28	0.58
7:q3:117:LYS:HD2	7:V7:113:ARG:CZ	2.33	0.58
1:A4:216:ALA:CB	1:A5:203:PHE:CE1	2.83	0.58
11:U4:201:CYC:O2A	3:Z4:67:ILE:HD12	2.03	0.58
2:W4:140:HIS:CE1	2:W4:142:LEU:CB	2.83	0.58
1:A5:52:GLN:NE2	1:A5:157:PRO:O	2.35	0.58
2:D5:24:LEU:CD1	11:D5:201:CYC:HBB1	2.33	0.58
2:L5:129:TYR:CE1	11:L5:201:CYC:HBC3	2.36	0.58
3:I6:151:GLY:CA	11:I6:202:CYC:HMD1	2.24	0.58
2:W6:24:LEU:HB2	11:X6:202:CYC:HBB1	1.85	0.58
8:F7:83:ARG:CZ	11:F7:1001:CYC:O2A	2.51	0.58
8:I7:107:ARG:NH2	6:N7:1:MET:SD	2.77	0.58
7:Q7:71:ASN:ND2	11:Q7:1001:CYC:NC	2.42	0.58
1:A8:203:PHE:HE2	1:A8:204:ARG:CZ	2.14	0.58
2:B8:21:ASN:HD21	2:H8:152:ASN:ND2	2.01	0.58
3:I8:39:ASP:OD1	3:I8:42:SER:OG	2.19	0.58
3:P8:142:VAL:HG22	11:P8:202:CYC:CBC	2.33	0.58
2:Q8:6:THR:OG1	3:R8:1:MET:SD	2.60	0.58
2:Q8:24:LEU:HD11	2:U8:152:ASN:ND2	2.00	0.58
3:V8:37:ARG:NH1	3:V8:159:GLU:OE1	2.37	0.58
3:X8:153:CYS:SG	11:X8:202:CYC:CAC	2.89	0.58
1:A1:211:GLN:OE1	1:A1:212:ALA:O	2.21	0.58
3:V1:37:ARG:HH12	3:V1:100:GLY:HA2	1.67	0.58
2:H2:84:CYS:O	11:H2:201:CYC:CBC	2.48	0.58
4:N2:108:TYR:O	4:N2:166:ARG:NH1	2.37	0.58
3:R2:153:CYS:SG	3:R2:156:LEU:CD1	2.90	0.58
3:T2:151:GLY:N	11:T2:202:CYC:HC	2.02	0.58
5:03:307:SER:HB3	11:S3:1001:CYC:HMA1	1.86	0.58
5:03:454:PHE:HD1	11:H3:1001:CYC:HMA2	1.68	0.58
5:13:185:ALA:HB2	11:13:901:CYC:HBD2	1.85	0.58
11:13:902:CYC:HAD1	8:Y3:77:ARG:HG2	1.84	0.58
7:b3:105:GLU:HA	7:b3:109:LEU:HB2	1.83	0.58
7:w3:117:LYS:CE	7:O7:113:ARG:NH1	2.67	0.58
2:F4:149:GLU:CG	2:F4:153:TYR:HE2	2.16	0.58
3:M4:143:MET:CE	3:M4:157:GLN:HB2	2.34	0.58
2:B5:129:TYR:CE1	11:B5:201:CYC:HBC3	2.36	0.58
2:O5:129:TYR:CE1	11:O5:201:CYC:HBC3	2.36	0.58
2:H6:27:LEU:HD23	3:I6:38:SER:OG	2.02	0.58
3:V6:84:ARG:HD3	3:V6:88:ILE:CD1	2.34	0.58
8:Y7:102:SER:O	8:Y7:106:GLU:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:11:SER:O	1:A1:16:ARG:NH2	2.37	0.58
1:A1:208:ARG:HA	1:A1:208:ARG:NE	2.18	0.58
3:V2:85:ASP:OD2	11:V2:201:CYC:NA	2.36	0.58
5:03:837:LEU:CD1	6:U7:42:ARG:CZ	2.80	0.58
5:13:521:THR:CB	8:K7:10:ASN:HD21	2.17	0.58
7:P3:66:VAL:HG11	7:b3:68:PRO:HG2	1.85	0.58
9:g3:114:ARG:NH1	9:g3:164:LEU:O	2.36	0.58
2:L4:150:THR:CG2	2:L4:154:ILE:CD1	2.82	0.58
2:W4:149:GLU:C	2:W4:153:TYR:HD2	2.11	0.58
11:V5:202:CYC:C2C	2:W5:84:CYS:SG	2.89	0.58
11:X5:203:CYC:CGD	2:Y5:72:ASN:O	2.51	0.58
3:C6:162:LEU:O	3:C6:166:THR:OG1	2.22	0.58
8:B7:81:CYS:HG	11:B7:1001:CYC:HAC2	1.58	0.58
7:V7:90:ARG:NH2	8:a7:73:TYR:OH	2.30	0.58
8:Y7:83:ARG:CZ	11:Y7:1001:CYC:O2A	2.51	0.58
8:a7:83:ARG:CZ	11:a7:1001:CYC:O2A	2.51	0.58
2:D8:150:THR:O	2:D8:153:TYR:HB2	2.03	0.58
2:L8:36:PHE:CD2	2:L8:145:ASP:CG	2.81	0.58
2:L8:150:THR:CG2	2:L8:154:ILE:CD1	2.82	0.58
3:Z8:153:CYS:SG	3:Z8:156:LEU:CB	2.90	0.58
3:X1:37:ARG:HH12	3:X1:100:GLY:HA2	1.67	0.58
3:C2:155:SER:O	3:C2:158:GLN:N	2.36	0.58
3:P2:162:LEU:O	3:P2:166:THR:OG1	2.22	0.58
3:R2:162:LEU:O	3:R2:166:THR:OG1	2.22	0.58
3:X2:146:ALA:O	3:X2:148:VAL:N	2.37	0.58
3:Z2:154:SER:O	3:Z2:157:GLN:HB3	2.03	0.58
5:13:523:VAL:HG13	7:J7:103:PRO:HA	1.86	0.58
9:Q3:114:ARG:NH1	9:Q3:164:LEU:O	2.36	0.58
3:G4:36:LYS:HB3	3:G4:156:LEU:CD1	2.34	0.58
3:I4:153:CYS:CB	11:I4:202:CYC:HAC2	2.32	0.58
2:L4:36:PHE:CD2	2:L4:145:ASP:CG	2.81	0.58
3:T4:143:MET:O	11:T4:202:CYC:HMC2	2.04	0.58
2:B5:28:TYR:HH	11:C5:201:CYC:HB	1.50	0.58
2:D5:149:GLU:CD	11:M5:202:CYC:HAB2	2.29	0.58
3:I6:35:THR:O	3:I6:38:SER:HB2	2.04	0.58
3:X6:151:GLY:CA	11:X6:202:CYC:HMD3	2.20	0.58
8:R7:102:SER:O	8:R7:106:GLU:HB2	2.03	0.58
3:G8:36:LYS:HB3	3:G8:156:LEU:CD1	2.34	0.58
2:L8:17:ARG:NH1	2:L8:17:ARG:HB2	2.18	0.58
2:Y8:137:LYS:C	2:Y8:140:HIS:NE2	2.62	0.58
1:A2:207:ASP:OD2	8:O3:17:LYS:HE2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G2:162:LEU:O	3:G2:166:THR:OG1	2.22	0.57
3:K2:15:ARG:O	3:P2:65:GLN:NE2	2.37	0.57
4:N2:248:THR:O	4:N2:250:ARG:NH2	2.35	0.57
2:Q2:24:LEU:CD1	11:R2:201:CYC:CBB	2.81	0.57
3:V2:84:ARG:HD3	3:V2:88:ILE:CD1	2.34	0.57
3:V2:162:LEU:O	3:V2:166:THR:OG1	2.22	0.57
3:X2:37:ARG:HA	3:X2:156:LEU:CD1	2.34	0.57
5:03:493:ASN:HB3	5:03:496:ALA:HB3	1.86	0.57
5:03:643:ASP:CG	6:G7:24:ASN:ND2	2.59	0.57
5:13:609:GLN:O	5:13:612:ASN:OD1	2.20	0.57
7:u3:69:GLY:HA3	7:Q7:63:PRO:CD	2.28	0.57
1:A4:154:ASP:OD2	4:N4:259:ARG:NH2	2.37	0.57
4:N4:44:GLY:O	4:N4:45:ASN:HB3	2.04	0.57
3:T4:151:GLY:N	11:T4:202:CYC:HMD2	2.17	0.57
3:X4:139:VAL:C	3:X4:142:VAL:HG13	2.29	0.57
2:Y4:137:LYS:CA	2:Y4:140:HIS:NE2	2.66	0.57
3:I5:36:LYS:CE	11:I5:202:CYC:O1D	2.52	0.57
2:B6:24:LEU:CG	11:C6:202:CYC:CBB	2.80	0.57
3:K6:15:ARG:O	3:P6:65:GLN:NE2	2.37	0.57
2:L6:84:CYS:O	11:L6:201:CYC:CBC	2.48	0.57
3:M6:162:LEU:O	3:M6:166:THR:OG1	2.22	0.57
4:N6:204:PRO:HB2	3:T6:111:ASN:HB2	1.85	0.57
3:Z6:162:LEU:O	3:Z6:166:THR:OG1	2.22	0.57
8:P7:102:SER:O	8:P7:106:GLU:HB2	2.03	0.57
4:N8:232:LEU:HD23	4:N8:264:PRO:HD3	1.85	0.57
3:T8:143:MET:O	11:T8:202:CYC:HMC2	2.04	0.57
2:B1:24:LEU:HD12	11:C1:201:CYC:CBB	2.33	0.57
3:P1:36:LYS:CE	11:P1:202:CYC:O1D	2.53	0.57
11:U1:202:CYC:O1D	3:V1:36:LYS:CE	2.52	0.57
4:a1:232:LEU:HD23	4:a1:264:PRO:HD3	1.86	0.57
1:A2:127:ILE:HD11	3:C2:84:ARG:HD3	1.85	0.57
5:13:720:ASP:OD2	5:13:726:GLU:CD	2.47	0.57
7:I3:3:ILE:HD12	7:A7:25:ARG:NH2	2.17	0.57
7:I3:113:ARG:HH11	7:C7:117:LYS:CE	2.00	0.57
7:w3:64:ASP:C	7:O7:64:ASP:OD1	2.46	0.57
7:w3:77:MET:CE	1:A5:201:ARG:HG2	2.34	0.57
7:y3:25:ARG:HG3	7:Q7:25:ARG:NH1	2.19	0.57
2:L4:36:PHE:CE2	2:L4:145:ASP:HB2	2.40	0.57
3:I5:86:MET:HE2	11:I5:201:CYC:CBC	2.32	0.57
3:T5:36:LYS:CE	11:T5:201:CYC:O1D	2.53	0.57
3:X5:36:LYS:CE	11:X5:202:CYC:O1D	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K6:37:ARG:CA	3:K6:156:LEU:HD11	2.30	0.57
4:N6:108:TYR:O	4:N6:166:ARG:NH1	2.37	0.57
2:Q6:84:CYS:O	11:Q6:201:CYC:CBC	2.48	0.57
2:Q6:145:ASP:OD1	11:V6:202:CYC:C4B	2.52	0.57
2:B8:149:GLU:HG2	2:B8:153:TYR:HE2	1.67	0.57
3:G8:143:MET:HE2	3:G8:157:GLN:CB	2.24	0.57
4:N8:44:GLY:O	4:N8:45:ASN:CB	2.52	0.57
2:S8:36:PHE:CE2	2:S8:145:ASP:HB3	2.38	0.57
11:U8:201:CYC:O2A	3:Z8:67:ILE:HD12	2.03	0.57
4:a8:238:VAL:HA	4:a8:264:PRO:HA	1.86	0.57
2:L1:84:CYS:CA	11:L1:201:CYC:CAC	2.74	0.57
3:M1:36:LYS:CE	11:M1:202:CYC:O1D	2.52	0.57
4:N1:240:ARG:NH2	4:N1:242:GLU:OE2	2.37	0.57
1:A2:222:ALA:HB1	7:I3:78:THR:HB	1.86	0.57
2:D2:84:CYS:O	11:D2:201:CYC:CBC	2.48	0.57
2:H2:28:TYR:HH	3:I2:35:THR:HG1	1.42	0.57
3:K2:158:GLN:HG2	3:P2:162:LEU:HD13	1.85	0.57
3:M2:162:LEU:O	3:M2:166:THR:OG1	2.22	0.57
3:P2:33:GLU:O	3:P2:36:LYS:CG	2.50	0.57
3:Z2:57:ARG:HE	3:Z2:57:ARG:CA	2.15	0.57
7:X3:69:GLY:HA3	7:J7:63:PRO:CD	2.33	0.57
7:o3:154:ASP:OD1	8:W7:46:ALA:CB	2.51	0.57
2:B4:152:ASN:ND2	2:H4:21:ASN:HA	2.18	0.57
3:R4:139:VAL:O	3:R4:143:MET:N	2.33	0.57
3:T4:142:VAL:O	11:T4:202:CYC:HMC3	2.00	0.57
2:B5:24:LEU:HD12	11:C5:201:CYC:HBB1	1.84	0.57
3:G5:36:LYS:CE	11:G5:202:CYC:O1D	2.53	0.57
2:L5:2:LYS:H	2:L5:105:GLY:HA3	1.69	0.57
2:U5:84:CYS:CA	11:U5:201:CYC:CAC	2.74	0.57
2:W5:28:TYR:HH	11:X5:202:CYC:HB	1.51	0.57
2:Q6:84:CYS:HB2	11:Q6:201:CYC:HAC1	0.64	0.57
3:X6:37:ARG:HA	3:X6:156:LEU:CD1	2.34	0.57
3:P8:74:TYR:OH	2:Q8:93:ARG:NH1	2.37	0.57
3:R1:36:LYS:CE	11:R1:202:CYC:O1D	2.53	0.57
3:P2:84:ARG:CZ	11:P2:201:CYC:O2A	2.47	0.57
3:T2:37:ARG:CA	3:T2:156:LEU:HD21	2.34	0.57
7:d3:78:THR:CB	1:A6:199:ALA:CB	2.80	0.57
7:d3:82:LEU:HD11	1:A6:200:VAL:CA	2.34	0.57
3:K4:67:ILE:CD1	11:L4:201:CYC:O2A	2.47	0.57
3:K4:143:MET:CE	3:K4:143:MET:HA	2.34	0.57
4:N4:232:LEU:HD23	4:N4:264:PRO:HD3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O4:22:THR:HG21	2:W4:103:GLY:HA3	1.86	0.57
3:T4:149:THR:OG1	11:T4:202:CYC:HAD1	2.04	0.57
3:I5:57:ARG:NH2	11:J5:201:CYC:O2D	2.37	0.57
3:M5:36:LYS:CE	11:M5:202:CYC:O1D	2.52	0.57
2:Y5:73:ASN:OD1	2:Y5:73:ASN:N	2.28	0.57
2:S6:148:THR:OG1	11:Z6:202:CYC:HAC2	2.04	0.57
3:X6:146:ALA:O	3:X6:148:VAL:N	2.37	0.57
3:Z6:155:SER:O	3:Z6:158:GLN:CB	2.50	0.57
3:C8:46:ASN:HD21	2:H8:152:ASN:HA	1.70	0.57
3:K8:139:VAL:HA	3:K8:142:VAL:HG12	1.84	0.57
2:L8:36:PHE:CE2	2:L8:145:ASP:HB2	2.40	0.57
3:X8:139:VAL:HA	3:X8:142:VAL:HG12	1.82	0.57
2:B1:94:MET:CE	11:B1:201:CYC:HBB1	2.22	0.57
2:O1:129:TYR:CE1	11:O1:201:CYC:HBC3	2.36	0.57
1:A2:214:ASP:OD1	8:H3:67:ARG:CZ	2.51	0.57
2:B2:72:ASN:HD22	3:G2:57:ARG:NH1	2.01	0.57
4:N2:224:GLN:NE2	4:N2:288:ALA:O	2.37	0.57
5:03:690:THR:OG1	8:x3:67:ARG:NH2	2.36	0.57
7:d3:68:PRO:HG3	7:d3:73:TYR:CE1	2.39	0.57
2:D4:150:THR:O	2:D4:153:TYR:HB2	2.03	0.57
3:R4:39:ASP:OD1	3:R4:42:SER:OG	2.19	0.57
3:X4:37:ARG:NH2	3:X4:159:GLU:OE1	2.38	0.57
3:T6:162:LEU:O	3:T6:166:THR:OG1	2.22	0.57
8:I7:83:ARG:CZ	11:I7:1001:CYC:O2A	2.51	0.57
8:I7:102:SER:O	8:I7:106:GLU:HB2	2.03	0.57
8:W7:83:ARG:CZ	11:W7:1001:CYC:O2A	2.51	0.57
1:A8:36:VAL:O	1:A8:38:SER:N	2.35	0.57
2:D8:150:THR:O	2:D8:154:ILE:N	2.29	0.57
2:H8:142:LEU:HB2	2:H8:147:ALA:HB2	1.86	0.57
3:K8:143:MET:CE	3:K8:143:MET:HA	2.33	0.57
3:Z8:139:VAL:O	3:Z8:142:VAL:CG1	2.45	0.57
1:A1:23:GLY:C	2:F1:2:LYS:HZ1	2.12	0.57
3:C1:39:ASP:OD1	11:C1:201:CYC:NA	2.38	0.57
3:I1:39:ASP:OD1	11:I1:202:CYC:NA	2.38	0.57
3:T2:162:LEU:O	3:T2:166:THR:OG1	2.22	0.57
3:X2:36:LYS:CE	11:X2:202:CYC:O1D	2.46	0.57
5:13:493:ASN:HB3	5:13:496:ALA:HB3	1.86	0.57
5:13:720:ASP:OD2	5:13:726:GLU:OE1	2.21	0.57
2:W4:19:LEU:CD2	3:X4:95:TYR:CD1	2.87	0.57
2:Y4:137:LYS:C	2:Y4:140:HIS:NE2	2.62	0.57
3:M5:39:ASP:OD1	11:M5:202:CYC:NA	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:U5:202:CYC:O1D	3:V5:36:LYS:CE	2.52	0.57
3:X5:39:ASP:OD1	11:X5:202:CYC:NA	2.38	0.57
11:C6:203:CYC:CBC	2:D6:84:CYS:O	2.48	0.57
3:K6:151:GLY:HA3	11:K6:202:CYC:HMD1	1.83	0.57
4:N6:224:GLN:NE2	4:N6:288:ALA:O	2.37	0.57
3:X6:37:ARG:O	3:X6:41:VAL:HG23	2.04	0.57
3:Z6:151:GLY:HA3	11:Z6:202:CYC:C4B	2.35	0.57
7:A7:87:TYR:HB3	11:A7:1001:CYC:HBB3	1.87	0.57
8:M7:81:CYS:HG	11:M7:1001:CYC:CAC	2.10	0.57
6:U7:21:GLU:OE1	6:U7:24:ASN:ND2	2.37	0.57
8:a7:102:SER:O	8:a7:106:GLU:HB2	2.03	0.57
2:B8:151:ASN:N	2:B8:151:ASN:HD22	2.03	0.57
11:L8:202:CYC:HBC1	3:M8:142:VAL:CG2	2.32	0.57
3:T8:149:THR:OG1	11:T8:202:CYC:HAD1	2.04	0.57
2:Y8:137:LYS:CA	2:Y8:140:HIS:NE2	2.66	0.57
1:A1:215:PRO:O	7:u3:79:ALA:HB1	2.03	0.57
11:A1:302:CYC:HBD1	3:E1:120:LEU:HD13	1.87	0.57
3:M1:120:LEU:HD13	11:M1:201:CYC:HBD1	1.87	0.57
3:V2:148:VAL:HG13	11:V2:202:CYC:ND	2.19	0.57
5:03:318:ARG:NH2	6:23:3:MET:SD	2.78	0.57
5:13:318:ARG:NH2	6:33:3:MET:SD	2.78	0.57
7:k3:124:ASP:OD1	7:k3:124:ASP:N	2.32	0.57
7:o3:23:LEU:HB3	8:p3:38:VAL:HG13	1.85	0.57
7:o3:83:ARG:NH1	1:A5:215:PRO:HD3	2.19	0.57
8:t3:59:SER:O	1:A4:206:PRO:CG	2.53	0.57
2:D4:24:LEU:HD12	2:L4:152:ASN:HD22	1.66	0.57
2:J4:61:SER:O	2:J5:61:SER:CB	2.53	0.57
2:J4:150:THR:HA	2:J4:153:TYR:HD2	1.70	0.57
3:P4:140:ALA:O	3:P4:144:ASP:CG	2.48	0.57
2:Y4:111:LEU:CD2	11:Y4:201:CYC:HAB2	2.18	0.57
1:A5:11:SER:O	1:A5:16:ARG:NH2	2.37	0.57
3:C5:39:ASP:OD1	11:C5:201:CYC:NA	2.38	0.57
11:D5:201:CYC:NA	3:E5:39:ASP:OD1	2.38	0.57
4:N5:117:LEU:HD23	3:P5:84:ARG:HH11	1.70	0.57
4:N5:141:ASN:OD1	4:N5:156:GLN:NE2	2.38	0.57
3:G6:111:ASN:OD1	3:G6:111:ASN:N	2.28	0.57
3:K6:162:LEU:O	3:K6:166:THR:OG1	2.22	0.57
11:M6:202:CYC:CMA	11:M6:202:CYC:HB	2.18	0.57
3:R6:162:LEU:O	3:R6:166:THR:OG1	2.22	0.57
2:U6:84:CYS:O	11:U6:201:CYC:CBC	2.48	0.57
8:P7:83:ARG:CZ	11:P7:1001:CYC:O2A	2.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V7:87:TYR:HB3	11:V7:1001:CYC:HBB3	1.87	0.57
2:Q8:19:LEU:HD21	3:R8:95:TYR:CD1	2.40	0.57
11:T8:202:CYC:CMA	11:T8:202:CYC:HB	2.18	0.57
11:A1:301:CYC:HBD1	3:C1:120:LEU:HD13	1.87	0.57
11:D1:201:CYC:NA	3:E1:39:ASP:OD1	2.38	0.57
3:I1:120:LEU:HD13	11:I1:201:CYC:HBD1	1.87	0.57
2:J1:84:CYS:SG	11:J1:201:CYC:C2C	2.89	0.57
3:K1:84:ARG:NH1	4:N1:251:TYR:CB	2.61	0.57
2:L1:2:LYS:H	2:L1:105:GLY:HA3	1.69	0.57
3:M1:39:ASP:OD1	11:M1:202:CYC:NA	2.38	0.57
4:N1:117:LEU:HD23	3:P1:84:ARG:HH11	1.70	0.57
11:U1:202:CYC:NA	3:V1:39:ASP:OD1	2.38	0.57
3:X1:36:LYS:CE	11:X1:202:CYC:O1D	2.52	0.57
11:M2:202:CYC:CMA	11:M2:202:CYC:HB	2.18	0.57
3:Z2:151:GLY:HA3	11:Z2:203:CYC:C4B	2.35	0.57
7:P3:124:ASP:OD1	7:P3:124:ASP:N	2.32	0.57
7:X3:64:ASP:OD2	7:J7:70:GLY:CA	2.53	0.57
7:Z3:124:ASP:OD1	7:Z3:124:ASP:N	2.32	0.57
11:F4:201:CYC:HMC1	3:G4:143:MET:HA	1.87	0.57
3:E5:89:ILE:HD11	3:E5:113:LEU:HD11	1.87	0.57
3:K5:89:ILE:HD11	3:K5:113:LEU:HD11	1.87	0.57
3:R5:77:ARG:NH2	11:R5:201:CYC:O1A	2.38	0.57
3:Z5:39:ASP:OD1	11:Z5:202:CYC:NA	2.38	0.57
3:T6:151:GLY:N	11:T6:201:CYC:HC	2.02	0.57
11:Z6:202:CYC:CMA	11:Z6:202:CYC:HB	2.18	0.57
7:A7:27:LYS:HB2	8:B7:38:VAL:HG11	1.86	0.57
6:G7:3:MET:N	6:G7:57:THR:OG1	2.38	0.57
7:J7:87:TYR:HB3	11:J7:1001:CYC:HBB3	1.87	0.57
8:K7:83:ARG:CZ	11:K7:1001:CYC:O2A	2.51	0.57
1:A8:154:ASP:OD2	4:N8:259:ARG:NH2	2.37	0.57
1:A8:166:SER:N	2:F8:109:GLU:OE2	2.31	0.57
2:O8:22:THR:HG21	2:W8:103:GLY:HA3	1.86	0.57
3:P8:140:ALA:O	3:P8:144:ASP:CG	2.48	0.57
2:S8:150:THR:HG22	2:S8:154:ILE:CG1	2.34	0.57
3:T8:142:VAL:O	11:T8:202:CYC:HMC3	2.00	0.57
3:G1:77:ARG:NH2	11:G1:201:CYC:O1A	2.38	0.57
11:N1:301:CYC:O1A	3:T1:77:ARG:NH2	2.38	0.57
2:Q1:24:LEU:CD1	11:R1:202:CYC:CBB	2.83	0.57
2:W1:73:ASN:OD1	2:W1:73:ASN:N	2.28	0.57
3:X1:89:ILE:HD11	3:X1:113:LEU:HD11	1.87	0.57
3:Z1:39:ASP:OD1	11:Z1:202:CYC:NA	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z1:89:ILE:HD11	3:Z1:113:LEU:HD11	1.87	0.57
3:E2:162:LEU:O	3:E2:166:THR:OG1	2.22	0.57
4:N2:236:ASP:O	4:N2:290:GLN:NE2	2.38	0.57
3:Z2:151:GLY:HA3	11:Z2:203:CYC:HB	1.70	0.57
6:23:50:ILE:H	8:W3:110:ASN:HD21	1.52	0.57
7:w3:70:GLY:CA	7:O7:64:ASP:CG	2.77	0.57
3:C4:46:ASN:HD21	2:H4:152:ASN:HA	1.70	0.57
3:C4:153:CYS:HB3	11:C4:201:CYC:HAC2	1.83	0.57
11:L4:202:CYC:CMA	11:L4:202:CYC:HB	2.18	0.57
3:G5:39:ASP:OD1	11:G5:202:CYC:NA	2.38	0.57
3:G5:89:ILE:HD11	3:G5:113:LEU:HD11	1.87	0.57
3:I5:120:LEU:HD13	11:I5:201:CYC:HBD1	1.87	0.57
3:K5:36:LYS:CE	11:K5:202:CYC:O1D	2.52	0.57
11:N5:301:CYC:O1A	3:T5:77:ARG:NH2	2.38	0.57
3:Z5:77:ARG:NH2	11:Z5:201:CYC:O1A	2.38	0.57
2:F6:28:TYR:HD2	2:J6:32:ARG:HE	1.53	0.57
11:G6:201:CYC:CMA	11:G6:201:CYC:HB	2.18	0.57
3:T6:153:CYS:SG	11:T6:201:CYC:HAC2	2.44	0.57
3:Z6:151:GLY:HA3	11:Z6:202:CYC:HB	1.70	0.57
7:E7:87:TYR:HB3	11:E7:1001:CYC:HBB3	1.87	0.57
7:S7:87:TYR:HB3	11:S7:1001:CYC:HBB3	1.87	0.57
11:F8:201:CYC:HMC1	3:G8:143:MET:HA	1.87	0.57
3:G1:36:LYS:CE	11:G1:202:CYC:O1D	2.53	0.57
2:J1:57:GLN:HE21	2:J8:67:THR:HG21	1.69	0.57
2:O1:73:ASN:OD1	2:O1:73:ASN:N	2.28	0.57
3:R1:39:ASP:OD1	11:R1:202:CYC:NA	2.38	0.57
3:C2:162:LEU:O	3:C2:166:THR:OG1	2.22	0.57
2:Q2:145:ASP:OD1	11:V2:202:CYC:C4B	2.52	0.57
5:03:442:VAL:CG2	5:03:608:ARG:CD	2.83	0.57
5:03:720:ASP:CG	8:R7:107:ARG:NH2	2.63	0.57
5:13:854:PRO:HB2	5:13:857:ASN:HB2	1.86	0.57
7:d3:73:TYR:CD1	1:A6:194:VAL:HG23	2.32	0.57
7:o3:79:ALA:O	1:A5:218:PHE:HB3	2.05	0.57
7:o3:154:ASP:OD1	8:W7:46:ALA:HB1	2.04	0.57
7:u3:63:PRO:CG	7:Q7:68:PRO:O	2.51	0.57
7:w3:124:ASP:OD1	7:w3:124:ASP:N	2.32	0.57
7:y3:97:VAL:HG21	8:z3:19:LEU:HD13	1.87	0.57
2:Q4:19:LEU:HD21	3:R4:95:TYR:CD1	2.40	0.57
11:A5:301:CYC:HBD1	3:C5:120:LEU:HD13	1.87	0.57
2:F5:84:CYS:SG	11:F5:201:CYC:C2C	2.89	0.57
2:H5:87:ASP:OD1	11:H5:201:CYC:CHB	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I5:39:ASP:OD1	11:I5:202:CYC:NA	2.38	0.57
4:N5:240:ARG:NH2	4:N5:242:GLU:OE2	2.37	0.57
11:N5:301:CYC:HBD1	3:T5:120:LEU:HD13	1.87	0.57
3:R5:89:ILE:HD11	3:R5:113:LEU:HD11	1.87	0.57
3:V5:120:LEU:HD13	11:V5:201:CYC:HBD1	1.87	0.57
3:Z5:120:LEU:HD13	11:Z5:201:CYC:HBD1	1.87	0.57
11:A7:1001:CYC:CGA	8:F7:66:THR:HG22	2.32	0.57
11:K8:202:CYC:CMA	11:K8:202:CYC:HB	2.18	0.57
11:L8:202:CYC:CMA	11:L8:202:CYC:HB	2.18	0.57
3:I1:36:LYS:CE	11:I1:202:CYC:O1D	2.52	0.56
3:K1:39:ASP:OD1	11:K1:202:CYC:NA	2.38	0.56
3:K1:120:LEU:HD13	11:K1:201:CYC:HBD1	1.87	0.56
2:S1:83:LYS:NZ	11:S1:201:CYC:CGA	2.64	0.56
2:S1:87:ASP:OD1	11:S1:201:CYC:CHB	2.53	0.56
3:Z1:77:ARG:NH2	11:Z1:201:CYC:O1A	2.38	0.56
3:Z1:120:LEU:HD13	11:Z1:201:CYC:HBD1	1.87	0.56
1:A2:196:TRP:CZ3	7:N3:59:PHE:HB2	2.40	0.56
11:Z2:203:CYC:CMA	11:Z2:203:CYC:HB	2.18	0.56
5:13:344:ARG:HB2	5:13:413:LEU:HD13	1.87	0.56
7:I3:70:GLY:HA2	7:C7:64:ASP:OD1	2.04	0.56
8:L3:22:SER:OG	9:Q3:139:LYS:NZ	2.38	0.56
10:V3:30:LEU:HD23	8:W3:34:GLY:HA3	1.87	0.56
3:E4:142:VAL:HG12	3:E4:156:LEU:HD21	1.87	0.56
11:F4:201:CYC:CMA	11:F4:201:CYC:HB	2.18	0.56
3:P5:36:LYS:CE	11:P5:202:CYC:O1D	2.53	0.56
3:P5:39:ASP:OD1	11:P5:202:CYC:NA	2.38	0.56
3:P5:77:ARG:NH2	11:P5:201:CYC:O1A	2.38	0.56
11:U5:202:CYC:NA	3:V5:39:ASP:OD1	2.38	0.56
3:V5:77:ARG:NH2	11:V5:201:CYC:O1A	2.38	0.56
3:V5:89:ILE:HD11	3:V5:113:LEU:HD11	1.87	0.56
3:I6:162:LEU:O	3:I6:166:THR:OG1	2.22	0.56
4:N6:29:ASP:OD1	2:Y6:1:MET:N	2.38	0.56
1:A8:163:SER:HA	1:A8:170:GLY:HA3	1.87	0.56
2:F8:21:ASN:N	2:F8:21:ASN:OD1	2.38	0.56
11:F8:201:CYC:CMA	11:F8:201:CYC:HB	2.18	0.56
2:J8:149:GLU:C	2:J8:153:TYR:CD2	2.74	0.56
3:K8:153:CYS:HB2	11:K8:202:CYC:H2C	1.87	0.56
2:Y8:28:TYR:CE1	3:Z8:38:SER:OG	2.58	0.56
2:Y8:149:GLU:O	2:Y8:153:TYR:CA	2.53	0.56
2:F1:87:ASP:OD1	11:F1:201:CYC:CHB	2.53	0.56
2:S1:129:TYR:CE1	11:S1:201:CYC:HBC3	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T1:36:LYS:CE	11:T1:201:CYC:O1D	2.53	0.56
3:X1:39:ASP:OD1	11:X1:202:CYC:NA	2.38	0.56
3:K2:118:VAL:HG11	4:N2:182:ILE:HG23	1.87	0.56
3:V2:84:ARG:HD3	3:V2:88:ILE:HD11	1.85	0.56
7:Z3:25:ARG:HD2	7:L7:25:ARG:NH2	2.20	0.56
7:f3:19:SER:OG	10:m3:100:ASP:OD1	2.22	0.56
7:o3:20:PRO:HG2	7:V7:151:ALA:O	2.04	0.56
7:o3:75:GLU:O	1:A5:222:ALA:HB1	2.04	0.56
7:s3:19:SER:CB	7:X7:6:LYS:HE2	2.35	0.56
1:A4:163:SER:HA	1:A4:170:GLY:HA3	1.87	0.56
3:C4:43:ARG:HH21	3:C4:148:VAL:CG1	2.10	0.56
3:K4:39:ASP:OD1	3:K4:42:SER:OG	2.19	0.56
11:X4:202:CYC:CMA	11:X4:202:CYC:HB	2.18	0.56
2:U5:87:ASP:OD1	11:U5:201:CYC:CHB	2.53	0.56
3:X5:120:LEU:HD13	11:X5:201:CYC:HBD1	1.87	0.56
3:Z5:36:LYS:CE	11:Z5:202:CYC:O1D	2.52	0.56
11:I6:202:CYC:CMA	11:I6:202:CYC:HB	2.18	0.56
3:K6:40:ALA:HB3	3:K6:156:LEU:HD13	1.85	0.56
3:X6:37:ARG:CA	3:X6:156:LEU:HD21	2.33	0.56
2:D8:4:PRO:HD3	2:L8:22:THR:HG21	1.85	0.56
3:M8:143:MET:CE	3:M8:157:GLN:HB2	2.34	0.56
11:V8:202:CYC:HB	11:V8:202:CYC:CMA	2.19	0.56
1:A1:17:VAL:HB	3:E1:84:ARG:HH11	1.68	0.56
3:C1:36:LYS:CE	11:C1:201:CYC:O1D	2.52	0.56
3:C1:89:ILE:HD11	3:C1:113:LEU:HD11	1.87	0.56
11:D1:201:CYC:O1D	3:E1:36:LYS:CE	2.53	0.56
11:D1:201:CYC:CAB	2:L1:149:GLU:OE2	2.39	0.56
2:H1:87:ASP:OD1	11:H1:201:CYC:CHB	2.54	0.56
3:I1:169:LYS:HD2	3:R1:162:LEU:HD21	1.86	0.56
2:J1:57:GLN:CB	2:J8:67:THR:OG1	2.50	0.56
3:M1:89:ILE:HD11	3:M1:113:LEU:HD11	1.87	0.56
11:N1:301:CYC:HBD1	3:T1:120:LEU:HD13	1.87	0.56
3:P1:39:ASP:OD1	11:P1:202:CYC:NA	2.38	0.56
3:V1:120:LEU:HD13	11:V1:201:CYC:HBD1	1.87	0.56
11:X1:203:CYC:CAB	2:Y1:111:LEU:CD2	2.78	0.56
3:Z1:36:LYS:CE	11:Z1:202:CYC:O1D	2.52	0.56
11:G2:201:CYC:CMA	11:G2:201:CYC:HB	2.18	0.56
11:I2:202:CYC:CMA	11:I2:202:CYC:HB	2.18	0.56
3:K2:57:ARG:NH2	11:K2:203:CYC:O1D	2.37	0.56
4:N2:29:ASP:OD1	2:Y2:1:MET:N	2.38	0.56
3:R2:153:CYS:HB2	11:R2:201:CYC:HAC2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R2:201:CYC:CMA	11:R2:201:CYC:HB	2.19	0.56
11:T2:202:CYC:CMA	11:T2:202:CYC:HB	2.18	0.56
7:I3:69:GLY:CA	7:C7:63:PRO:HD2	2.34	0.56
7:I3:113:ARG:NE	7:C7:117:LYS:HZ1	1.95	0.56
7:Z3:12:ASP:HA	8:a3:90:ARG:NH1	2.20	0.56
2:D4:4:PRO:HD3	2:L4:22:THR:HG21	1.86	0.56
3:E4:39:ASP:OD1	3:E4:42:SER:OG	2.19	0.56
11:E4:202:CYC:CMA	11:E4:202:CYC:HB	2.18	0.56
2:H4:142:LEU:HB2	2:H4:147:ALA:HB2	1.86	0.56
4:N4:100:LYS:HG3	4:N4:167:MET:HE1	1.86	0.56
2:O4:86:ARG:HH22	11:O4:201:CYC:H2A	0.59	0.56
11:P4:202:CYC:CMA	11:P4:202:CYC:HB	2.19	0.56
2:Q4:6:THR:OG1	3:R4:1:MET:SD	2.60	0.56
11:T4:202:CYC:CMA	11:T4:202:CYC:HB	2.18	0.56
2:U4:27:LEU:HD13	3:V4:38:SER:HB3	1.88	0.56
3:X4:139:VAL:HA	3:X4:142:VAL:HG13	1.80	0.56
2:Y4:149:GLU:O	2:Y4:153:TYR:CA	2.53	0.56
11:Z4:202:CYC:CMA	11:Z4:202:CYC:HB	2.18	0.56
2:B5:24:LEU:HD12	11:C5:201:CYC:CBB	2.33	0.56
3:C5:36:LYS:CE	11:C5:201:CYC:O1D	2.52	0.56
11:C5:202:CYC:CHB	2:D5:87:ASP:OD1	2.54	0.56
11:D5:201:CYC:O1D	3:E5:36:LYS:CE	2.53	0.56
2:F5:87:ASP:OD1	11:F5:201:CYC:CHB	2.53	0.56
3:I5:89:ILE:HD11	3:I5:113:LEU:HD11	1.87	0.56
3:K5:39:ASP:OD1	11:K5:202:CYC:NA	2.38	0.56
3:M5:77:ARG:NH2	11:M5:201:CYC:O1A	2.38	0.56
2:Q5:24:LEU:CD1	11:R5:202:CYC:CBB	2.83	0.56
3:R5:39:ASP:OD1	11:R5:202:CYC:NA	2.38	0.56
3:R5:120:LEU:HD13	11:R5:201:CYC:HBD1	1.87	0.56
2:S5:87:ASP:OD1	11:S5:201:CYC:CHB	2.53	0.56
3:T5:39:ASP:OD1	11:T5:201:CYC:NA	2.38	0.56
3:T5:89:ILE:HD11	3:T5:113:LEU:HD11	1.87	0.56
3:X5:77:ARG:NH2	11:X5:201:CYC:O1A	2.38	0.56
4:a5:232:LEU:HD23	4:a5:264:PRO:HD3	1.86	0.56
3:E6:162:LEU:O	3:E6:166:THR:OG1	2.22	0.56
4:N6:236:ASP:O	4:N6:290:GLN:NE2	2.38	0.56
3:R6:36:LYS:O	3:R6:156:LEU:HD11	2.06	0.56
3:V6:162:LEU:O	3:V6:166:THR:OG1	2.22	0.56
7:C7:87:TYR:HB3	11:C7:1001:CYC:HBB3	1.87	0.56
7:L7:87:TYR:HB3	11:L7:1001:CYC:HBB3	1.87	0.56
2:B8:2:LYS:HD3	2:H8:15:GLN:OE1	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D8:150:THR:CG2	2:D8:154:ILE:CD1	2.83	0.56
2:J8:150:THR:HA	2:J8:153:TYR:HD2	1.70	0.56
2:L8:43:THR:CG2	2:L8:142:LEU:HD21	2.36	0.56
11:P8:202:CYC:CMA	11:P8:202:CYC:HB	2.18	0.56
1:A1:203:PHE:HB3	7:q3:76:GLU:HB2	1.88	0.56
11:C1:202:CYC:C2C	2:D1:84:CYS:SG	2.89	0.56
3:G1:39:ASP:OD1	11:G1:202:CYC:NA	2.38	0.56
3:I1:77:ARG:NH2	11:I1:201:CYC:O1A	2.38	0.56
4:N1:141:ASN:OD1	4:N1:156:GLN:NE2	2.38	0.56
2:Q1:87:ASP:OD1	11:Q1:201:CYC:CHB	2.54	0.56
1:A2:203:PHE:CZ	7:N3:83:ARG:HA	2.40	0.56
3:R2:33:GLU:CB	3:R2:36:LYS:NZ	2.69	0.56
5:13:443:TYR:HE2	8:Y3:119:LEU:HD21	1.71	0.56
1:A4:203:PHE:CZ	1:A5:219:LEU:HB2	2.40	0.56
3:K4:153:CYS:HB2	11:K4:202:CYC:H2C	1.87	0.56
11:K4:202:CYC:HB	11:K4:202:CYC:CMA	2.18	0.56
3:P4:153:CYS:O	3:P4:157:GLN:HB3	2.06	0.56
2:Y4:40:ALA:HB2	2:Y4:146:ALA:HB1	1.88	0.56
4:a4:238:VAL:HA	4:a4:264:PRO:HA	1.86	0.56
3:G5:77:ARG:NH2	11:G5:201:CYC:O1A	2.38	0.56
3:K5:77:ARG:NH2	11:K5:201:CYC:O1A	2.38	0.56
2:L5:87:ASP:OD1	11:L5:201:CYC:CHB	2.53	0.56
3:P5:86:MET:HE2	11:P5:201:CYC:CBC	2.32	0.56
3:P5:120:LEU:HD13	11:P5:201:CYC:HBD1	1.87	0.56
11:E6:202:CYC:CMA	11:E6:202:CYC:HB	2.18	0.56
3:M8:39:ASP:OD1	3:M8:42:SER:OG	2.19	0.56
4:N8:100:LYS:HG3	4:N8:167:MET:HE1	1.86	0.56
11:R8:201:CYC:CMA	11:R8:201:CYC:HB	2.18	0.56
2:B1:87:ASP:OD1	11:B1:201:CYC:CHB	2.54	0.56
2:D1:149:GLU:CD	11:M1:202:CYC:HAB2	2.29	0.56
3:I1:57:ARG:NH2	11:J1:201:CYC:O2D	2.37	0.56
3:V1:89:ILE:HD11	3:V1:113:LEU:HD11	1.87	0.56
11:E2:202:CYC:CMA	11:E2:202:CYC:HB	2.18	0.56
11:P2:202:CYC:HB	11:P2:202:CYC:CMA	2.18	0.56
2:S2:148:THR:OG1	11:Z2:203:CYC:HAC2	2.04	0.56
3:T2:36:LYS:CD	3:T2:152:ASP:O	2.39	0.56
11:V2:202:CYC:CMA	11:V2:202:CYC:HB	2.18	0.56
5:03:288:ARG:NH2	5:03:328:GLN:NE2	2.53	0.56
8:J3:47:ASN:OD1	7:A7:131:ARG:NH2	2.28	0.56
7:d3:47:ARG:HH21	1:A6:208:ARG:HE	1.54	0.56
10:m3:37:ILE:HD13	8:n3:28:LYS:HG3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:99:LEU:CD1	2:B4:149:GLU:CD	2.78	0.56
3:E4:40:ALA:HB1	3:E4:156:LEU:CD1	2.19	0.56
2:F4:25:GLN:CD	2:J4:33:GLN:HB2	2.30	0.56
11:R4:201:CYC:CMA	11:R4:201:CYC:HB	2.18	0.56
1:A5:209:VAL:HG23	1:A5:210:PRO:HD2	1.85	0.56
11:A5:301:CYC:O1A	3:C5:77:ARG:NH2	2.38	0.56
3:I5:169:LYS:HD2	3:R5:162:LEU:HD21	1.86	0.56
3:M5:120:LEU:HD13	11:M5:201:CYC:HBD1	1.87	0.56
2:Q5:84:CYS:CA	11:Q5:201:CYC:CAC	2.74	0.56
3:X5:74:TYR:OH	2:Y5:93:ARG:NH1	2.26	0.56
2:D6:17:ARG:O	3:E6:95:TYR:OH	2.24	0.56
2:D6:100:VAL:HG21	3:E6:19:ILE:HD12	1.87	0.56
11:K6:202:CYC:HB	11:K6:202:CYC:CMA	2.18	0.56
3:R6:153:CYS:HB2	11:R6:201:CYC:HAC2	1.87	0.56
3:T6:37:ARG:CA	3:T6:156:LEU:HD21	2.34	0.56
11:T6:201:CYC:HB	11:T6:201:CYC:CMA	2.18	0.56
11:V6:202:CYC:HB	11:V6:202:CYC:CMA	2.18	0.56
11:C8:201:CYC:CMA	11:C8:201:CYC:HB	2.18	0.56
2:U8:27:LEU:HD13	3:V8:38:SER:HB3	1.88	0.56
3:Z8:151:GLY:N	11:Z8:202:CYC:C4B	2.62	0.56
11:A1:301:CYC:O1A	3:C1:77:ARG:NH2	2.38	0.56
3:G1:89:ILE:HD11	3:G1:113:LEU:HD11	1.87	0.56
3:K1:36:LYS:CE	11:K1:202:CYC:O1D	2.52	0.56
3:P1:77:ARG:NH2	11:P1:201:CYC:O1A	2.38	0.56
3:P1:120:LEU:HD13	11:P1:201:CYC:HBD1	1.87	0.56
3:R1:77:ARG:NH2	11:R1:201:CYC:O1A	2.38	0.56
3:R1:120:LEU:HD13	11:R1:201:CYC:HBD1	1.87	0.56
3:X1:120:LEU:HD13	11:X1:201:CYC:HBD1	1.87	0.56
11:X1:203:CYC:CHB	2:Y1:87:ASP:OD1	2.54	0.56
4:a1:239:VAL:HG21	4:a1:268:LEU:HD22	1.87	0.56
3:I2:162:LEU:O	3:I2:166:THR:OG1	2.22	0.56
11:X2:202:CYC:CMA	11:X2:202:CYC:HB	2.18	0.56
5:13:837:LEU:CG	6:b7:42:ARG:HH21	2.16	0.56
7:u3:117:LYS:HE3	7:Q7:113:ARG:CZ	2.26	0.56
2:B4:2:LYS:HD3	2:H4:15:GLN:OE1	2.06	0.56
2:B4:64:PRO:HB2	2:J5:138:ALA:CB	2.25	0.56
2:O5:87:ASP:OD1	11:O5:201:CYC:CHB	2.53	0.56
3:P5:89:ILE:HD11	3:P5:113:LEU:HD11	1.87	0.56
3:R5:36:LYS:CE	11:R5:202:CYC:O1D	2.53	0.56
2:W5:2:LYS:H	2:W5:105:GLY:HA3	1.71	0.56
3:C6:57:ARG:HE	3:C6:57:ARG:CA	2.11	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K6:57:ARG:NH2	11:L6:201:CYC:CGD	2.65	0.56
11:P6:202:CYC:CAB	2:W6:145:ASP:OD1	2.54	0.56
3:R6:3:ASP:H	3:R6:6:THR:HG1	1.53	0.56
2:B8:18:PHE:HE2	3:C8:45:THR:CB	2.19	0.56
3:P8:153:CYS:O	3:P8:157:GLN:HB3	2.06	0.56
3:G1:120:LEU:HD13	11:G1:201:CYC:HBD1	1.87	0.56
2:J1:87:ASP:OD1	11:J1:201:CYC:CHB	2.54	0.56
3:M1:115:GLU:HB3	4:N1:285:ILE:HB	1.87	0.56
3:T1:39:ASP:OD1	11:T1:201:CYC:NA	2.38	0.56
4:N2:39:TYR:OH	4:N2:53:ARG:O	2.22	0.56
8:O3:109:LEU:HD13	8:O3:159:GLY:HA3	1.88	0.56
7:X3:23:LEU:HB3	8:Y3:38:VAL:HG13	1.88	0.56
7:Z3:15:ALA:HA	8:a3:90:ARG:CZ	2.36	0.56
2:B4:18:PHE:HE2	3:C4:45:THR:CB	2.19	0.56
2:B4:111:LEU:CD2	11:G4:201:CYC:HAB2	2.18	0.56
2:B4:150:THR:O	2:B4:153:TYR:HB2	2.06	0.56
2:D4:150:THR:HG22	2:D4:154:ILE:HD12	1.88	0.56
2:F4:24:LEU:HD23	3:G4:39:ASP:HB2	1.87	0.56
2:H4:19:LEU:HD22	2:H4:19:LEU:N	2.17	0.56
2:H4:19:LEU:H	2:H4:19:LEU:CD2	2.16	0.56
4:N4:45:ASN:HB3	4:N4:177:SER:HA	1.87	0.56
3:I5:77:ARG:NH2	11:I5:201:CYC:O1A	2.38	0.56
2:J5:87:ASP:OD1	11:J5:201:CYC:CHB	2.54	0.56
2:S5:24:LEU:CD1	11:T5:201:CYC:HBB2	2.24	0.56
3:Z6:57:ARG:HE	3:Z6:57:ARG:CA	2.17	0.56
2:B8:150:THR:O	2:B8:153:TYR:HB2	2.06	0.56
2:F8:150:THR:HA	2:F8:153:TYR:HB2	1.87	0.56
4:N8:73:ARG:NH2	4:N8:134:ASP:OD1	2.39	0.56
3:P8:82:CYS:HG	11:P8:201:CYC:CAC	2.07	0.56
3:R8:139:VAL:O	3:R8:143:MET:N	2.33	0.56
2:S8:17:ARG:HH22	2:S8:20:SER:HB2	1.70	0.56
2:H1:78:GLN:HA	2:H1:81:LYS:HG3	1.88	0.56
3:M1:77:ARG:NH2	11:M1:201:CYC:O1A	2.38	0.56
2:O1:87:ASP:OD1	11:O1:201:CYC:CHB	2.53	0.56
3:T1:89:ILE:HD11	3:T1:113:LEU:HD11	1.87	0.56
3:X1:77:ARG:NH2	11:X1:201:CYC:O1A	2.38	0.56
2:Y1:28:TYR:HH	11:Z1:202:CYC:HB	1.46	0.56
1:A2:203:PHE:HZ	7:N3:83:ARG:HA	1.70	0.56
11:C2:202:CYC:CMA	11:C2:202:CYC:HB	2.18	0.56
2:F2:28:TYR:HD2	2:J2:32:ARG:HE	1.53	0.56
3:X2:149:THR:OG1	11:X2:202:CYC:CAD	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:557:ILE:CG2	11:I7:1001:CYC:HMA1	2.36	0.56
7:s3:19:SER:OG	7:X7:6:LYS:HE2	2.04	0.56
7:u3:68:PRO:C	1:A8:196:TRP:CZ2	2.83	0.56
8:v3:62:TYR:OH	1:A5:203:PHE:HB2	2.05	0.56
2:B4:102:GLY:O	2:H4:22:THR:HG22	2.06	0.56
2:F4:24:LEU:HD11	2:F4:28:TYR:CD1	2.33	0.56
2:F4:150:THR:HA	2:F4:153:TYR:HB2	1.87	0.56
4:N4:73:ARG:NH2	4:N4:134:ASP:OD1	2.39	0.56
2:S4:17:ARG:HH22	2:S4:20:SER:HB2	1.70	0.56
2:S4:140:HIS:ND1	2:S4:142:LEU:CB	2.63	0.56
2:S4:150:THR:HG22	2:S4:154:ILE:CG1	2.34	0.56
2:U4:149:GLU:OE2	2:U4:149:GLU:HA	2.06	0.56
11:C5:202:CYC:C2C	2:D5:84:CYS:SG	2.89	0.56
4:N6:218:ASP:OD2	4:N6:218:ASP:N	2.39	0.56
11:R6:201:CYC:CMA	11:R6:201:CYC:HB	2.18	0.56
3:V6:148:VAL:HG13	11:V6:202:CYC:ND	2.19	0.56
3:G8:39:ASP:OD1	3:G8:42:SER:OG	2.19	0.56
3:K8:57:ARG:NH1	11:L8:201:CYC:O2D	2.26	0.56
3:T8:142:VAL:HG23	11:T8:202:CYC:CBC	2.32	0.56
3:T8:153:CYS:O	3:T8:157:GLN:N	2.31	0.56
2:Y8:134:LYS:O	2:Y8:137:LYS:CG	2.52	0.56
1:A1:215:PRO:HG2	1:A8:203:PHE:CD1	2.41	0.56
11:A1:302:CYC:O1A	3:E1:77:ARG:NH2	2.38	0.56
3:C1:69:PRO:HB2	3:E1:16:GLY:HA3	1.88	0.56
3:I1:89:ILE:HD11	3:I1:113:LEU:HD11	1.87	0.56
2:J1:78:GLN:HA	2:J1:81:LYS:HG3	1.88	0.56
3:K1:77:ARG:NH2	11:K1:201:CYC:O1A	2.38	0.56
2:B2:84:CYS:CA	11:B2:201:CYC:HAC1	2.31	0.56
2:H2:27:LEU:CD2	3:I2:38:SER:OG	2.54	0.56
2:J2:24:LEU:HD13	11:K2:202:CYC:HBB3	1.88	0.56
5:03:15:GLN:NE2	5:03:17:TYR:O	2.37	0.56
5:13:245:GLN:NE2	9:g3:92:TYR:OH	2.39	0.56
8:e3:109:LEU:HD13	8:e3:159:GLY:HA3	1.88	0.56
7:o3:68:PRO:CA	1:A4:196:TRP:CD1	2.84	0.56
1:A4:43:ASP:OD1	1:A4:71:ARG:NH1	2.36	0.56
2:L4:43:THR:CG2	2:L4:142:LEU:HD21	2.36	0.56
11:A5:302:CYC:HBD1	3:E5:120:LEU:HD13	1.87	0.56
2:B5:87:ASP:OD1	11:B5:201:CYC:CHB	2.54	0.56
3:K5:157:GLN:NE2	3:K5:161:GLU:OE2	2.39	0.56
11:X5:203:CYC:CHB	2:Y5:87:ASP:OD1	2.54	0.56
2:F6:94:MET:HG3	2:F6:111:LEU:HG	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J6:84:CYS:O	11:J6:201:CYC:CBC	2.48	0.56
2:L6:30:ARG:NH2	2:L6:33:GLN:OE1	2.39	0.56
3:X6:149:THR:OG1	11:X6:202:CYC:CAD	2.54	0.56
6:G7:21:GLU:HB3	6:G7:24:ASN:HB2	1.87	0.56
2:B8:102:GLY:O	2:H8:22:THR:HG22	2.06	0.56
3:C8:39:ASP:OD1	3:C8:42:SER:OG	2.19	0.56
2:D8:19:LEU:HD22	3:E8:95:TYR:CE1	2.26	0.56
2:W8:19:LEU:HD22	3:X8:95:TYR:HE1	1.71	0.56
1:A1:186:ARG:NH1	3:G1:118:VAL:O	2.39	0.56
3:G1:37:ARG:NH1	3:G1:97:THR:O	2.40	0.56
3:K1:89:ILE:HD11	3:K1:113:LEU:HD11	1.87	0.56
2:L1:87:ASP:OD1	11:L1:201:CYC:CHB	2.53	0.56
3:V1:77:ARG:NH2	11:V1:201:CYC:O1A	2.38	0.56
3:Z1:111:ASN:OD1	3:Z1:111:ASN:N	2.31	0.56
2:F2:30:ARG:NH2	2:F2:33:GLN:OE1	2.39	0.56
3:G2:113:LEU:HD11	3:G2:171:VAL:HG22	1.88	0.56
2:H2:30:ARG:NH2	2:H2:33:GLN:OE1	2.39	0.56
11:P2:202:CYC:CAB	2:W2:145:ASP:OD1	2.54	0.56
2:W2:30:ARG:NH2	2:W2:33:GLN:OE1	2.39	0.56
6:33:45:LYS:HG2	8:n3:107:ARG:NH1	2.21	0.56
8:W3:109:LEU:HD13	8:W3:159:GLY:HA3	1.88	0.56
8:Y3:109:LEU:HD13	8:Y3:159:GLY:HA3	1.88	0.56
8:n3:109:LEU:HD13	8:n3:159:GLY:HA3	1.88	0.56
7:o3:87:TYR:HB3	11:o3:1001:CYC:HBB3	1.88	0.56
11:C4:201:CYC:CMA	11:C4:201:CYC:HB	2.19	0.56
3:K4:151:GLY:CA	11:K4:202:CYC:HMD2	2.35	0.56
3:C5:37:ARG:NH1	3:C5:97:THR:O	2.39	0.56
3:P5:37:ARG:NH1	3:P5:97:THR:O	2.39	0.56
3:Z5:37:ARG:NH1	3:Z5:97:THR:O	2.39	0.56
4:a5:239:VAL:HG21	4:a5:268:LEU:HD22	1.87	0.56
11:C6:202:CYC:HB	11:C6:202:CYC:CMA	2.18	0.56
2:Q6:30:ARG:NH2	2:Q6:33:GLN:OE1	2.39	0.56
2:S6:27:LEU:HD22	3:T6:98:PHE:CE1	2.41	0.56
2:D8:19:LEU:HD23	3:E8:95:TYR:CE1	2.37	0.56
11:I8:202:CYC:CMA	11:I8:202:CYC:HB	2.18	0.56
2:Q8:15:GLN:HE21	2:Q8:17:ARG:NE	1.85	0.56
3:E1:37:ARG:NH1	3:E1:97:THR:O	2.39	0.55
3:G1:157:GLN:NE2	3:G1:161:GLU:OE2	2.39	0.55
2:L1:78:GLN:HA	2:L1:81:LYS:HG3	1.88	0.55
2:L1:111:LEU:CD2	11:L1:201:CYC:CAB	2.78	0.55
3:R1:89:ILE:HD11	3:R1:113:LEU:HD11	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:V1:202:CYC:C2C	2:W1:84:CYS:SG	2.89	0.55
11:K2:202:CYC:CMA	11:K2:202:CYC:HB	2.18	0.55
2:Q2:84:CYS:O	11:Q2:201:CYC:CBC	2.48	0.55
2:U2:94:MET:HG3	2:U2:111:LEU:HG	1.88	0.55
2:Y2:30:ARG:NH2	2:Y2:33:GLN:OE1	2.39	0.55
3:Z2:113:LEU:HD11	3:Z2:171:VAL:HG22	1.89	0.55
5:03:521:THR:HG23	5:03:524:SER:HB3	1.89	0.55
8:U3:3:ASP:OD2	8:U3:3:ASP:N	2.37	0.55
11:o3:1001:CYC:O1A	8:t3:66:THR:CB	2.53	0.55
7:s3:87:TYR:HB3	11:s3:1001:CYC:HBB3	1.88	0.55
2:B4:149:GLU:CD	2:B4:153:TYR:CD2	2.76	0.55
2:Q4:19:LEU:HD21	3:R4:95:TYR:HD1	1.71	0.55
2:Q4:154:ILE:O	2:Q4:158:ILE:HG13	2.06	0.55
3:E5:157:GLN:NE2	3:E5:161:GLU:OE2	2.39	0.55
11:G5:202:CYC:HAB2	2:J5:149:GLU:CD	2.29	0.55
3:M5:65:GLN:HG3	3:R5:65:GLN:HB3	1.88	0.55
11:V5:202:CYC:CHB	2:W5:87:ASP:OD1	2.54	0.55
2:Y5:78:GLN:HA	2:Y5:81:LYS:HG3	1.88	0.55
3:Z5:89:ILE:HD11	3:Z5:113:LEU:HD11	1.87	0.55
2:D6:30:ARG:NH2	2:D6:33:GLN:OE1	2.39	0.55
3:E6:113:LEU:HD11	3:E6:171:VAL:HG22	1.89	0.55
2:H6:30:ARG:NH2	2:H6:33:GLN:OE1	2.39	0.55
11:P6:202:CYC:CMA	11:P6:202:CYC:HB	2.18	0.55
3:R6:33:GLU:CB	3:R6:36:LYS:NZ	2.69	0.55
2:U6:94:MET:HG3	2:U6:111:LEU:HG	1.88	0.55
3:V6:113:LEU:HD11	3:V6:171:VAL:HG22	1.88	0.55
11:X6:202:CYC:CMA	11:X6:202:CYC:HB	2.18	0.55
7:O7:87:TYR:HB3	11:O7:1001:CYC:HBB3	1.87	0.55
7:X7:87:TYR:HB3	11:X7:1001:CYC:HBB3	1.87	0.55
2:L8:8:ALA:HB1	2:L8:23:GLU:CG	2.35	0.55
2:U8:149:GLU:HA	2:U8:149:GLU:OE2	2.06	0.55
2:B1:78:GLN:HA	2:B1:81:LYS:HG3	1.88	0.55
2:D1:78:GLN:HA	2:D1:81:LYS:HG3	1.88	0.55
2:F1:78:GLN:HA	2:F1:81:LYS:HG3	1.88	0.55
2:J1:58:ALA:CB	2:J8:64:PRO:HB2	2.37	0.55
3:K1:37:ARG:NH1	3:K1:97:THR:O	2.39	0.55
3:T1:157:GLN:NE2	3:T1:161:GLU:OE2	2.39	0.55
2:U1:87:ASP:OD1	11:U1:201:CYC:CHB	2.53	0.55
3:X1:157:GLN:NE2	3:X1:161:GLU:OE2	2.39	0.55
2:D2:17:ARG:O	3:E2:95:TYR:OH	2.24	0.55
2:D2:100:VAL:HG21	3:E2:19:ILE:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I2:113:LEU:HD11	3:I2:171:VAL:HG22	1.89	0.55
5:03:489:ASN:ND2	11:03:902:CYC:CGA	2.61	0.55
5:03:662:ARG:NH2	8:H3:109:LEU:O	2.39	0.55
5:13:521:THR:OG1	8:K7:10:ASN:CG	2.43	0.55
7:b3:87:TYR:HB3	11:b3:1001:CYC:HBB3	1.88	0.55
8:c3:109:LEU:HD13	8:c3:159:GLY:HA3	1.88	0.55
7:f3:87:TYR:HB3	11:f3:1001:CYC:HBB3	1.88	0.55
7:k3:87:TYR:HB3	11:k3:1001:CYC:HBB3	1.88	0.55
7:u3:77:MET:CE	1:A8:201:ARG:CG	2.84	0.55
3:C4:139:VAL:CA	3:C4:142:VAL:HG13	2.36	0.55
2:D4:150:THR:CG2	2:D4:154:ILE:CD1	2.84	0.55
11:I4:202:CYC:CMA	11:I4:202:CYC:HB	2.18	0.55
2:L4:8:ALA:HB1	2:L4:23:GLU:CG	2.35	0.55
3:E5:37:ARG:NH1	3:E5:97:THR:O	2.39	0.55
3:M5:89:ILE:HD11	3:M5:113:LEU:HD11	1.87	0.55
3:M5:157:GLN:NE2	3:M5:161:GLU:OE2	2.39	0.55
2:Q5:78:GLN:HA	2:Q5:81:LYS:HG3	1.88	0.55
2:Q5:87:ASP:OD1	11:Q5:201:CYC:CHB	2.54	0.55
3:T5:157:GLN:NE2	3:T5:161:GLU:OE2	2.39	0.55
3:X5:89:ILE:HD11	3:X5:113:LEU:HD11	1.87	0.55
2:H6:73:ASN:HD22	2:H6:123:ASP:HB3	1.72	0.55
3:K6:118:VAL:HG11	4:N6:182:ILE:HG23	1.87	0.55
3:R6:113:LEU:HD11	3:R6:171:VAL:HG22	1.89	0.55
3:V6:37:ARG:CA	3:V6:156:LEU:HD21	2.36	0.55
8:R7:81:CYS:SG	11:R7:1001:CYC:C4C	2.95	0.55
3:K8:140:ALA:HA	3:K8:143:MET:HB3	1.88	0.55
2:O8:145:ASP:OD1	11:X8:202:CYC:O1A	2.23	0.55
3:R8:46:ASN:O	2:U8:159:ASN:ND2	2.39	0.55
11:C1:202:CYC:CHB	2:D1:87:ASP:OD1	2.53	0.55
3:K1:157:GLN:NE2	3:K1:161:GLU:OE2	2.39	0.55
3:M1:157:GLN:NE2	3:M1:161:GLU:OE2	2.39	0.55
3:R1:37:ARG:NH1	3:R1:97:THR:O	2.39	0.55
2:B2:30:ARG:NH2	2:B2:33:GLN:OE1	2.40	0.55
2:F2:94:MET:HG3	2:F2:111:LEU:HG	1.88	0.55
3:K2:111:ASN:OD1	3:K2:111:ASN:N	2.28	0.55
11:K2:203:CYC:CBC	2:L2:84:CYS:O	2.48	0.55
2:O2:84:CYS:O	11:T2:201:CYC:CBC	2.48	0.55
5:03:284:GLN:HE21	5:03:392:PRO:HB2	1.71	0.55
5:03:720:ASP:CB	8:R7:107:ARG:NH2	2.68	0.55
6:33:22:LEU:HD11	8:l3:83:ARG:HH11	1.71	0.55
7:i3:87:TYR:HB3	11:i3:1001:CYC:HBB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:t3:62:TYR:O	1:A4:205:THR:CA	2.54	0.55
3:C4:57:ARG:HH12	2:D4:72:ASN:HB2	1.71	0.55
4:N4:45:ASN:HD22	4:N4:175:ALA:C	2.15	0.55
2:S4:148:THR:O	11:Z4:202:CYC:HBC1	2.07	0.55
2:U4:150:THR:O	2:U4:154:ILE:HG13	2.06	0.55
2:H5:111:LEU:CD2	11:H5:201:CYC:CAB	2.78	0.55
3:M5:37:ARG:NH1	3:M5:97:THR:O	2.39	0.55
3:T5:37:ARG:NH1	3:T5:97:THR:O	2.39	0.55
3:V5:37:ARG:NH1	3:V5:97:THR:O	2.39	0.55
2:W5:73:ASN:OD1	2:W5:73:ASN:N	2.28	0.55
2:H6:27:LEU:CD2	3:I6:38:SER:OG	2.54	0.55
2:U6:30:ARG:NH2	2:U6:33:GLN:OE1	2.39	0.55
2:W6:94:MET:HG3	2:W6:111:LEU:HG	1.88	0.55
2:Y6:73:ASN:HD22	2:Y6:123:ASP:HB3	1.72	0.55
7:S7:44:THR:HG22	8:T7:18:TYR:HD1	1.70	0.55
3:M8:40:ALA:HB2	3:M8:156:LEU:HD13	1.89	0.55
2:U8:17:ARG:CZ	2:U8:17:ARG:HB2	2.36	0.55
2:U8:150:THR:O	2:U8:154:ILE:HG13	2.06	0.55
3:V8:143:MET:HA	11:V8:202:CYC:CBC	2.36	0.55
3:E1:89:ILE:HD11	3:E1:113:LEU:HD11	1.87	0.55
3:M1:65:GLN:HG3	3:R1:65:GLN:HB3	1.88	0.55
2:S1:73:ASN:OD1	2:S1:73:ASN:N	2.28	0.55
2:U1:24:LEU:HD13	11:U1:202:CYC:CBB	2.36	0.55
3:V1:157:GLN:NE2	3:V1:161:GLU:OE2	2.39	0.55
11:V1:202:CYC:CHB	2:W1:87:ASP:OD1	2.54	0.55
3:X1:37:ARG:NH1	3:X1:97:THR:O	2.39	0.55
2:D2:30:ARG:NH2	2:D2:33:GLN:OE1	2.39	0.55
2:D2:94:MET:HG3	2:D2:111:LEU:HG	1.89	0.55
2:O2:30:ARG:NH2	2:O2:33:GLN:OE1	2.39	0.55
3:P2:36:LYS:HD2	11:P2:202:CYC:CGD	2.33	0.55
2:Q2:94:MET:HG3	2:Q2:111:LEU:HG	1.89	0.55
2:S2:30:ARG:NH2	2:S2:33:GLN:OE1	2.40	0.55
3:V2:113:LEU:HD11	3:V2:171:VAL:HG22	1.89	0.55
5:03:344:ARG:HB2	5:03:413:LEU:HD13	1.87	0.55
8:J3:109:LEU:HD13	8:J3:159:GLY:HA3	1.88	0.55
8:L3:39:ARG:O	8:L3:43:THR:OG1	2.25	0.55
8:M3:39:ARG:O	8:M3:43:THR:OG1	2.25	0.55
7:X3:64:ASP:HB3	7:J7:67:SER:HB2	1.87	0.55
7:X3:87:TYR:HB3	11:X3:1001:CYC:HBB3	1.88	0.55
7:q3:87:TYR:HB3	11:q3:1001:CYC:HBB3	1.89	0.55
8:t3:109:LEU:HD13	8:t3:159:GLY:HA3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:x3:109:LEU:HD13	8:x3:159:GLY:HA3	1.88	0.55
1:A4:99:SER:OG	3:C4:111:ASN:ND2	2.39	0.55
2:B4:26:TYR:CE1	2:H4:26:TYR:CZ	2.94	0.55
2:B4:99:LEU:HD13	2:B4:149:GLU:OE2	2.04	0.55
3:C4:39:ASP:OD1	3:C4:42:SER:OG	2.19	0.55
3:C4:137:ALA:O	3:C4:141:ILE:HG13	2.05	0.55
2:F4:21:ASN:N	2:F4:21:ASN:OD1	2.38	0.55
2:Y4:134:LYS:HA	2:Y4:137:LYS:CG	2.37	0.55
3:C5:157:GLN:NE2	3:C5:161:GLU:OE2	2.39	0.55
3:I5:37:ARG:NH1	3:I5:97:THR:O	2.40	0.55
3:I5:157:GLN:NE2	3:I5:161:GLU:OE2	2.39	0.55
3:M5:115:GLU:HB3	4:N5:285:ILE:HB	1.87	0.55
2:F6:30:ARG:NH2	2:F6:33:GLN:OE1	2.39	0.55
2:H6:94:MET:HG3	2:H6:111:LEU:HG	1.88	0.55
3:I6:113:LEU:HD11	3:I6:171:VAL:HG22	1.89	0.55
3:K6:151:GLY:N	11:K6:202:CYC:CMD	2.70	0.55
3:M6:113:LEU:HD11	3:M6:171:VAL:HG22	1.89	0.55
2:Q6:73:ASN:HD22	2:Q6:123:ASP:HB3	1.72	0.55
11:R6:202:CYC:CBC	2:S6:84:CYS:O	2.48	0.55
8:K7:81:CYS:SG	11:K7:1001:CYC:C4C	2.95	0.55
1:A8:99:SER:OG	3:C8:111:ASN:ND2	2.39	0.55
3:P8:40:ALA:CB	3:P8:156:LEU:CD1	2.63	0.55
2:Q8:19:LEU:HD21	3:R8:95:TYR:HD1	1.71	0.55
1:A1:72:ASN:HD21	11:I1:201:CYC:HAA1	1.72	0.55
1:A1:201:ARG:HB3	7:q3:77:MET:HE2	0.66	0.55
3:P1:89:ILE:HD11	3:P1:113:LEU:HD11	1.87	0.55
1:A2:206:PRO:CD	7:N3:86:ASP:OD2	2.54	0.55
2:D2:24:LEU:CB	11:E2:202:CYC:HBB1	2.36	0.55
2:D2:73:ASN:HD22	2:D2:123:ASP:HB3	1.72	0.55
3:E2:153:CYS:HB2	11:E2:202:CYC:H2C	1.89	0.55
2:J2:94:MET:HG3	2:J2:111:LEU:HG	1.88	0.55
3:K2:151:GLY:N	11:K2:202:CYC:CMD	2.70	0.55
3:R2:36:LYS:O	3:R2:156:LEU:HD11	2.05	0.55
5:13:563:GLU:HB3	6:N7:30:LEU:HD23	1.88	0.55
6:33:37:PHE:CD1	11:n3:1001:CYC:HMA2	2.40	0.55
8:H3:39:ARG:O	8:H3:43:THR:OG1	2.25	0.55
7:d3:83:ARG:HG3	1:A6:206:PRO:HG3	1.87	0.55
8:e3:39:ARG:O	8:e3:43:THR:OG1	2.25	0.55
7:q3:64:ASP:OD2	7:V7:70:GLY:N	2.40	0.55
7:y3:87:TYR:HB3	11:y3:1001:CYC:HBB3	1.88	0.55
2:B4:151:ASN:N	2:B4:151:ASN:HD22	2.03	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D4:151:ASN:N	2:D4:151:ASN:HD22	2.04	0.55
2:S4:11:LEU:O	2:S4:15:GLN:HG3	2.07	0.55
3:C5:69:PRO:HB2	3:E5:16:GLY:HA3	1.88	0.55
3:C5:89:ILE:HD11	3:C5:113:LEU:HD11	1.87	0.55
2:J5:28:TYR:HH	11:K5:202:CYC:HB	1.47	0.55
2:O5:78:GLN:HA	2:O5:81:LYS:HG3	1.89	0.55
3:R5:157:GLN:NE2	3:R5:161:GLU:OE2	2.39	0.55
2:U5:78:GLN:HA	2:U5:81:LYS:HG3	1.88	0.55
3:X5:157:GLN:NE2	3:X5:161:GLU:OE2	2.39	0.55
1:A6:93:SER:HB3	1:A6:180:ARG:HD2	1.89	0.55
4:N6:39:TYR:OH	4:N6:53:ARG:O	2.22	0.55
2:S6:30:ARG:NH2	2:S6:33:GLN:OE1	2.40	0.55
7:H7:87:TYR:HB3	11:H7:1001:CYC:HBB3	1.87	0.55
2:Q8:24:LEU:HD12	2:U8:152:ASN:HD21	1.44	0.55
11:X8:202:CYC:CMA	11:X8:202:CYC:HB	2.18	0.55
2:Y8:40:ALA:HB2	2:Y8:146:ALA:HB1	1.88	0.55
11:Z8:202:CYC:CMA	11:Z8:202:CYC:HB	2.18	0.55
2:B2:94:MET:HG3	2:B2:111:LEU:HG	1.89	0.55
3:E2:113:LEU:HD11	3:E2:171:VAL:HG22	1.88	0.55
2:S2:73:ASN:HD22	2:S2:123:ASP:HB3	1.72	0.55
2:U2:73:ASN:HD22	2:U2:123:ASP:HB3	1.72	0.55
2:W2:84:CYS:O	11:W2:201:CYC:CBC	2.48	0.55
5:03:719:THR:OG1	6:U7:23:GLN:NE2	2.38	0.55
5:13:809:GLN:OE1	5:13:812:ARG:NH2	2.40	0.55
5:13:837:LEU:HD13	6:b7:42:ARG:NH2	2.19	0.55
7:I3:117:LYS:HZ2	7:C7:113:ARG:NH1	1.83	0.55
7:N3:87:TYR:HB3	11:N3:1001:CYC:HBB3	1.88	0.55
7:b3:124:ASP:OD1	7:b3:124:ASP:N	2.32	0.55
8:n3:39:ARG:O	8:n3:43:THR:OG1	2.25	0.55
7:o3:79:ALA:CB	1:A5:219:LEU:CA	2.57	0.55
8:v3:109:LEU:HD13	8:v3:159:GLY:HA3	1.88	0.55
7:w3:51:ILE:HG22	1:A4:221:MET:CE	2.32	0.55
7:w3:77:MET:CG	1:A5:201:ARG:HB2	2.37	0.55
2:B4:103:GLY:HA2	2:H4:22:THR:CG2	2.37	0.55
2:F4:6:THR:OG1	3:G4:1:MET:SD	2.65	0.55
3:G4:39:ASP:OD1	3:G4:42:SER:OG	2.19	0.55
3:R4:46:ASN:O	2:U4:159:ASN:ND2	2.39	0.55
3:Z4:139:VAL:HA	3:Z4:142:VAL:HG11	1.88	0.55
3:G5:120:LEU:HD13	11:G5:201:CYC:HBD1	1.87	0.55
3:G5:157:GLN:NE2	3:G5:161:GLU:OE2	2.39	0.55
3:K5:120:LEU:HD13	11:K5:201:CYC:HBD1	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z5:157:GLN:NE2	3:Z5:161:GLU:OE2	2.39	0.55
2:Q6:94:MET:HG3	2:Q6:111:LEU:HG	1.89	0.55
8:F7:81:CYS:SG	11:F7:1001:CYC:C4C	2.95	0.55
8:K7:90:ARG:NH1	8:K7:94:TYR:OH	2.40	0.55
8:P7:81:CYS:SG	11:P7:1001:CYC:C4C	2.95	0.55
8:R7:109:LEU:HD13	8:R7:159:GLY:HA3	1.89	0.55
7:Z7:87:TYR:HB3	11:Z7:1001:CYC:HBB3	1.87	0.55
11:E8:202:CYC:CMA	11:E8:202:CYC:HB	2.18	0.55
2:F8:6:THR:OG1	3:G8:1:MET:SD	2.65	0.55
2:F8:30:ARG:NH1	2:F8:33:GLN:OE1	2.40	0.55
2:Q8:24:LEU:HD11	3:R8:42:SER:CB	2.37	0.55
2:B1:83:LYS:NZ	11:B1:201:CYC:CGA	2.64	0.55
3:C2:35:THR:HG22	3:C2:36:LYS:HE2	1.86	0.55
2:F2:27:LEU:CD2	3:G2:38:SER:OG	2.55	0.55
3:R2:113:LEU:HD11	3:R2:171:VAL:HG22	1.89	0.55
2:U2:30:ARG:NH2	2:U2:33:GLN:OE1	2.39	0.55
3:X2:40:ALA:HB2	11:X2:202:CYC:HAC1	1.89	0.55
5:13:284:GLN:HE21	5:13:392:PRO:HB2	1.71	0.55
5:13:777:GLU:HG3	7:V7:14:GLU:CG	2.36	0.55
8:M3:109:LEU:HD13	8:M3:159:GLY:HA3	1.88	0.55
8:l3:109:LEU:HD13	8:l3:159:GLY:HA3	1.88	0.55
7:o3:79:ALA:HB2	1:A5:219:LEU:HA	1.79	0.55
7:o3:83:ARG:HD3	1:A5:214:ASP:C	2.31	0.55
8:t3:39:ARG:O	8:t3:43:THR:OG1	2.25	0.55
7:u3:113:ARG:CZ	7:Q7:117:LYS:HE3	2.37	0.55
7:u3:131:ARG:HG3	7:u3:157:ILE:HD13	1.89	0.55
8:z3:109:LEU:HD13	8:z3:159:GLY:HA3	1.88	0.55
3:K4:140:ALA:HA	3:K4:143:MET:HB3	1.88	0.55
4:N4:210:GLY:HA3	4:N4:283:ALA:HA	1.89	0.55
2:S4:25:GLN:NE2	2:Y4:30:ARG:HA	2.22	0.55
11:V4:202:CYC:CMA	11:V4:202:CYC:HB	2.19	0.55
2:Y4:149:GLU:HB3	2:Y4:153:TYR:HD2	1.58	0.55
2:J5:84:CYS:SG	11:J5:201:CYC:C2C	2.89	0.55
2:J5:111:LEU:CD2	11:J5:201:CYC:CAB	2.78	0.55
3:R5:37:ARG:NH1	3:R5:97:THR:O	2.39	0.55
2:F6:73:ASN:HD22	2:F6:123:ASP:HB3	1.72	0.55
2:U6:73:ASN:HD22	2:U6:123:ASP:HB3	1.72	0.55
2:W6:73:ASN:HD22	2:W6:123:ASP:HB3	1.72	0.55
8:D7:91:TYR:CE2	11:D7:1001:CYC:CBB	2.90	0.55
8:I7:81:CYS:SG	11:I7:1001:CYC:C4C	2.95	0.55
7:Q7:87:TYR:HB3	11:Q7:1001:CYC:HBB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a7:90:ARG:NH1	8:a7:94:TYR:OH	2.40	0.55
8:a7:91:TYR:CE2	11:a7:1001:CYC:CBB	2.90	0.55
2:B8:103:GLY:HA2	2:H8:22:THR:CG2	2.37	0.55
2:D8:26:TYR:OH	2:L8:4:PRO:HA	2.07	0.55
2:O8:30:ARG:NH1	2:O8:33:GLN:OE1	2.40	0.55
2:S8:11:LEU:O	2:S8:15:GLN:HG3	2.07	0.55
2:S8:25:GLN:NE2	2:Y8:30:ARG:HA	2.22	0.55
2:Y8:134:LYS:HA	2:Y8:137:LYS:CG	2.37	0.55
11:A1:302:CYC:HBC1	3:E1:86:MET:HE3	1.89	0.55
3:C1:157:GLN:NE2	3:C1:161:GLU:OE2	2.39	0.55
2:D1:73:ASN:OD1	2:D1:73:ASN:N	2.28	0.55
2:H1:84:CYS:SG	11:H1:201:CYC:C2C	2.89	0.55
3:I1:157:GLN:NE2	3:I1:161:GLU:OE2	2.39	0.55
3:P1:157:GLN:NE2	3:P1:161:GLU:OE2	2.39	0.55
3:R1:157:GLN:NE2	3:R1:161:GLU:OE2	2.39	0.55
2:S1:84:CYS:SG	11:S1:201:CYC:C2C	2.89	0.55
3:X1:86:MET:HE3	11:X1:201:CYC:HBC1	1.89	0.55
2:Y1:78:GLN:HA	2:Y1:81:LYS:HG3	1.88	0.55
2:B2:73:ASN:HD22	2:B2:123:ASP:HB3	1.72	0.55
3:C2:113:LEU:HD11	3:C2:171:VAL:HG22	1.88	0.55
2:J2:30:ARG:NH2	2:J2:33:GLN:OE1	2.39	0.55
2:L2:30:ARG:NH2	2:L2:33:GLN:OE1	2.39	0.55
2:Q2:30:ARG:NH2	2:Q2:33:GLN:OE1	2.39	0.55
2:S2:27:LEU:HD22	3:T2:98:PHE:CE1	2.41	0.55
3:Z2:151:GLY:CA	11:Z2:203:CYC:C4B	2.85	0.55
5:03:337:ARG:NH1	5:03:340:GLU:OE1	2.40	0.55
5:03:809:GLN:OE1	5:03:812:ARG:NH2	2.40	0.55
7:G3:131:ARG:HG3	7:G3:157:ILE:HD13	1.89	0.55
8:J3:73:TYR:OH	7:K3:90:ARG:NH2	2.40	0.55
8:a3:109:LEU:HD13	8:a3:159:GLY:HA3	1.88	0.55
7:u3:87:TYR:HB3	11:u3:1001:CYC:HBB3	1.88	0.55
2:J4:64:PRO:HB2	2:J5:57:GLN:C	2.32	0.55
2:O4:145:ASP:OD1	11:X4:202:CYC:O1A	2.23	0.55
2:Q4:30:ARG:NH1	2:Q4:33:GLN:OE1	2.40	0.55
3:T4:142:VAL:CG2	11:T4:202:CYC:HBC3	2.36	0.55
2:U4:24:LEU:HB3	11:V4:202:CYC:HBB3	1.77	0.55
3:X4:139:VAL:C	3:X4:142:VAL:CG1	2.80	0.55
1:A5:186:ARG:NH1	3:G5:118:VAL:O	2.39	0.55
3:P5:111:ASN:OD1	3:P5:111:ASN:N	2.31	0.55
2:B6:30:ARG:NH2	2:B6:33:GLN:OE1	2.40	0.55
2:B6:94:MET:HG3	2:B6:111:LEU:HG	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:C6:203:CYC:HAC1	2:D6:84:CYS:CA	2.31	0.55
2:O6:30:ARG:NH2	2:O6:33:GLN:OE1	2.39	0.55
3:R6:33:GLU:HB2	3:R6:36:LYS:HZ2	1.72	0.55
3:R6:153:CYS:SG	3:R6:156:LEU:CD1	2.90	0.55
3:T6:113:LEU:HD11	3:T6:171:VAL:HG22	1.89	0.55
2:W6:30:ARG:NH2	2:W6:33:GLN:OE1	2.39	0.55
2:Y6:94:MET:HG3	2:Y6:111:LEU:HG	1.89	0.55
7:Q7:105:GLU:HA	7:Q7:109:LEU:HB2	1.89	0.55
2:B8:26:TYR:CE1	2:H8:26:TYR:CZ	2.94	0.55
2:B8:27:LEU:HD13	3:C8:38:SER:OG	2.04	0.55
2:D8:151:ASN:N	2:D8:151:ASN:HD22	2.04	0.55
3:K8:84:ARG:HD2	4:N8:251:TYR:CD1	2.42	0.55
3:I1:37:ARG:NH1	3:I1:97:THR:O	2.39	0.55
3:I1:86:MET:HE3	11:I1:201:CYC:HBC1	1.89	0.55
2:J1:54:GLY:HA3	2:J8:68:SER:HG	1.69	0.55
11:X1:203:CYC:C2C	2:Y1:84:CYS:SG	2.89	0.55
2:Y1:73:ASN:OD1	2:Y1:73:ASN:N	2.28	0.55
3:Z1:157:GLN:NE2	3:Z1:161:GLU:OE2	2.39	0.55
3:K2:3:ASP:H	3:K2:6:THR:HG1	1.53	0.55
2:L2:94:MET:HG3	2:L2:111:LEU:HG	1.88	0.55
5:03:685:LEU:HB3	7:y3:83:ARG:HD3	1.89	0.55
5:03:702:LEU:HD22	8:z3:10:ASN:HD22	1.72	0.55
5:13:557:ILE:HG23	11:I7:1001:CYC:HMA1	1.88	0.55
8:J3:39:ARG:O	8:J3:43:THR:OG1	2.25	0.55
8:Y3:39:ARG:O	8:Y3:43:THR:OG1	2.25	0.55
7:d3:47:ARG:HH21	1:A6:208:ARG:NE	2.04	0.55
2:H4:150:THR:O	2:H4:154:ILE:HG13	2.07	0.55
4:N4:47:TYR:OH	3:T4:88:ILE:CD1	2.55	0.55
2:O4:30:ARG:NH1	2:O4:33:GLN:OE1	2.40	0.55
3:V4:138:ALA:O	3:V4:142:VAL:CG1	2.39	0.55
2:Y4:134:LYS:O	2:Y4:137:LYS:CG	2.52	0.55
1:A5:72:ASN:HD21	11:I5:201:CYC:HAA1	1.72	0.55
11:A5:302:CYC:HBC1	3:E5:86:MET:HE3	1.89	0.55
3:C6:113:LEU:HD11	3:C6:171:VAL:HG22	1.89	0.55
3:K6:57:ARG:HE	3:K6:57:ARG:CA	2.18	0.55
3:Z6:113:LEU:HD11	3:Z6:171:VAL:HG22	1.89	0.55
7:A7:112:VAL:HG12	8:F7:75:THR:HG21	1.88	0.55
7:C7:105:GLU:HA	7:C7:109:LEU:HB2	1.89	0.55
8:I7:90:ARG:NH1	8:I7:94:TYR:OH	2.40	0.55
8:K7:109:LEU:HD13	8:K7:159:GLY:HA3	1.89	0.55
7:S7:105:GLU:HA	7:S7:109:LEU:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W7:90:ARG:NH1	8:W7:94:TYR:OH	2.40	0.55
2:B8:30:ARG:NH1	2:B8:33:GLN:OE1	2.40	0.55
3:K8:151:GLY:CA	11:K8:202:CYC:HMD2	2.35	0.55
2:Q8:30:ARG:NH1	2:Q8:33:GLN:OE1	2.40	0.55
2:S8:30:ARG:NH1	2:S8:33:GLN:OE1	2.40	0.55
2:U8:30:ARG:NH1	2:U8:33:GLN:OE1	2.40	0.55
2:Y8:30:ARG:NH1	2:Y8:33:GLN:OE1	2.40	0.55
3:E1:157:GLN:NE2	3:E1:161:GLU:OE2	2.39	0.55
2:U1:78:GLN:HA	2:U1:81:LYS:HG3	1.88	0.55
3:X1:111:ASN:OD1	3:X1:111:ASN:N	2.31	0.55
3:Z1:37:ARG:NH1	3:Z1:97:THR:O	2.39	0.55
3:C2:111:ASN:OD1	3:C2:111:ASN:N	2.28	0.55
3:X2:113:LEU:HD11	3:X2:171:VAL:HG22	1.89	0.55
2:Y2:94:MET:HG3	2:Y2:111:LEU:HG	1.88	0.55
5:03:180:GLU:CD	5:03:231:VAL:HG12	2.32	0.55
5:03:525:PHE:CE2	7:C7:5:THR:OG1	2.56	0.55
7:I3:151:ALA:C	7:A7:20:PRO:HG3	2.32	0.55
8:M3:76:ARG:HB2	7:N3:110:VAL:HG21	1.89	0.55
7:R3:131:ARG:HG3	7:R3:157:ILE:HD13	1.89	0.55
11:R3:1001:CYC:O1A	8:W3:66:THR:CB	2.55	0.55
7:X3:154:ASP:CG	8:I7:46:ALA:HB1	2.32	0.55
7:d3:47:ARG:HD2	1:A6:205:THR:CG2	2.37	0.55
7:d3:82:LEU:CD1	1:A6:203:PHE:CB	2.83	0.55
8:l3:39:ARG:O	8:l3:43:THR:OG1	2.25	0.55
2:D4:30:ARG:NH1	2:D4:33:GLN:OE1	2.40	0.55
2:Q4:24:LEU:HD11	3:R4:42:SER:CB	2.37	0.55
2:W4:19:LEU:HD22	3:X4:95:TYR:HE1	1.71	0.55
11:A5:302:CYC:O1A	3:E5:77:ARG:NH2	2.38	0.55
3:K5:37:ARG:NH1	3:K5:97:THR:O	2.39	0.55
4:N5:238:VAL:HG12	4:N5:288:ALA:HB3	1.89	0.55
2:D6:94:MET:HG3	2:D6:111:LEU:HG	1.89	0.55
2:F6:27:LEU:HD21	3:G6:38:SER:OG	2.07	0.55
11:I6:202:CYC:CGA	11:I6:202:CYC:CMA	2.85	0.55
2:L6:73:ASN:HD22	2:L6:123:ASP:HB3	1.72	0.55
4:N6:232:LEU:O	4:N6:267:ARG:NH1	2.39	0.55
8:T7:81:CYS:SG	11:T7:1001:CYC:C4C	2.95	0.55
8:Y7:107:ARG:O	6:b7:20:ARG:NH1	2.40	0.55
8:Y7:109:LEU:HD13	8:Y7:159:GLY:HA3	1.89	0.55
2:D8:150:THR:HG22	2:D8:154:ILE:CD1	2.37	0.55
2:D8:150:THR:HG22	2:D8:154:ILE:HD12	1.88	0.55
2:H8:150:THR:O	2:H8:154:ILE:HG13	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L8:30:ARG:NH1	2:L8:33:GLN:OE1	2.40	0.55
2:L8:134:LYS:O	2:L8:137:LYS:CG	2.54	0.55
4:N8:273:GLN:OE1	4:N8:277:ARG:NH2	2.40	0.55
2:W8:19:LEU:CD2	3:X8:95:TYR:CD1	2.87	0.55
2:B1:149:GLU:OE2	11:I1:202:CYC:CAB	2.40	0.54
2:O1:84:CYS:SG	11:O1:201:CYC:C2C	2.89	0.54
3:V1:37:ARG:NH1	3:V1:97:THR:O	2.39	0.54
2:W1:2:LYS:H	2:W1:105:GLY:HA3	1.71	0.54
1:A2:200:VAL:HA	7:N3:82:LEU:HD11	1.89	0.54
3:C2:153:CYS:HB2	11:C2:202:CYC:H2C	1.89	0.54
3:C2:154:SER:O	3:C2:157:GLN:N	2.40	0.54
3:K2:113:LEU:HD11	3:K2:171:VAL:HG22	1.89	0.54
4:N2:232:LEU:O	4:N2:267:ARG:NH1	2.39	0.54
2:O2:73:ASN:HD22	2:O2:123:ASP:HB3	1.72	0.54
5:13:672:VAL:HG11	8:e3:60:LEU:HD23	1.88	0.54
7:K3:131:ARG:HG3	7:K3:157:ILE:HD13	1.89	0.54
10:V3:14:GLU:OE1	10:V3:16:ARG:NH2	2.40	0.54
7:X3:117:LYS:HZ2	7:J7:113:ARG:CZ	2.18	0.54
7:Z3:68:PRO:O	7:H7:63:PRO:CG	2.46	0.54
7:d3:87:TYR:HB3	11:d3:1001:CYC:HBB3	1.88	0.54
7:o3:75:GLU:OE1	1:A5:223:ARG:HG2	2.06	0.54
8:r3:3:ASP:OD2	8:r3:3:ASP:N	2.37	0.54
8:x3:39:ARG:O	8:x3:43:THR:OG1	2.25	0.54
1:A4:196:TRP:HE1	7:X7:63:PRO:HG3	1.72	0.54
2:B4:27:LEU:HD13	3:C4:38:SER:OG	2.04	0.54
2:F4:83:LYS:HZ2	2:F4:86:ARG:NH1	2.05	0.54
3:K4:139:VAL:O	3:K4:142:VAL:C	2.50	0.54
2:L4:30:ARG:NH1	2:L4:33:GLN:OE1	2.40	0.54
2:Y4:83:LYS:HZ2	2:Y4:86:ARG:NH1	2.05	0.54
2:B5:78:GLN:HA	2:B5:81:LYS:HG3	1.88	0.54
2:F5:78:GLN:HA	2:F5:81:LYS:HG3	1.88	0.54
2:S5:73:ASN:OD1	2:S5:73:ASN:N	2.28	0.54
4:a5:256:ARG:H	4:a5:259:ARG:HH21	1.55	0.54
3:C6:153:CYS:HB2	11:C6:202:CYC:H2C	1.89	0.54
3:G6:113:LEU:HD11	3:G6:171:VAL:HG22	1.88	0.54
2:O6:73:ASN:HD22	2:O6:123:ASP:HB3	1.72	0.54
3:P6:151:GLY:H	11:P6:202:CYC:C1C	2.20	0.54
7:E7:71:ASN:ND2	11:E7:1001:CYC:NC	2.42	0.54
11:C8:201:CYC:HMB1	2:H8:148:THR:HG23	1.89	0.54
2:S8:150:THR:HG22	2:S8:154:ILE:HG13	1.88	0.54
1:A1:196:TRP:CD2	7:q3:68:PRO:HG3	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:37:ARG:NH1	3:C1:97:THR:O	2.39	0.54
2:D1:40:ALA:HB2	2:D1:146:ALA:HB1	1.90	0.54
4:a1:256:ARG:H	4:a1:259:ARG:HH21	1.55	0.54
2:F2:27:LEU:HD21	3:G2:38:SER:OG	2.07	0.54
2:F2:73:ASN:HD22	2:F2:123:ASP:HB3	1.72	0.54
2:J2:73:ASN:HD22	2:J2:123:ASP:HB3	1.72	0.54
4:N2:218:ASP:N	4:N2:218:ASP:OD2	2.39	0.54
2:Q2:73:ASN:HD22	2:Q2:123:ASP:HB3	1.72	0.54
5:03:522:ASN:N	5:03:522:ASN:HD22	2.06	0.54
5:03:720:ASP:OD2	8:R7:107:ARG:CZ	2.55	0.54
5:13:563:GLU:O	6:N7:29:LYS:HB2	2.06	0.54
5:13:837:LEU:HD13	6:b7:42:ARG:HH21	1.57	0.54
8:S3:109:LEU:HD13	8:S3:159:GLY:HA3	1.88	0.54
8:U3:39:ARG:O	8:U3:43:THR:OG1	2.25	0.54
7:Z3:131:ARG:HG3	7:Z3:157:ILE:HD13	1.89	0.54
8:r3:109:LEU:HD13	8:r3:159:GLY:HA3	1.88	0.54
2:F4:30:ARG:NH1	2:F4:33:GLN:OE1	2.40	0.54
2:L4:111:LEU:CD2	11:L4:201:CYC:HAB2	2.18	0.54
4:N4:234:ALA:HB2	4:N4:267:ARG:HH12	1.71	0.54
2:Q4:27:LEU:HD13	3:R4:38:SER:HB3	1.88	0.54
11:H5:201:CYC:CGD	3:M5:57:ARG:HH12	2.19	0.54
3:R5:57:ARG:HH12	11:S5:201:CYC:CGD	2.18	0.54
3:X5:37:ARG:NH1	3:X5:97:THR:O	2.39	0.54
11:X5:203:CYC:CAB	2:Y5:111:LEU:CD2	2.78	0.54
2:Y5:40:ALA:HB2	2:Y5:146:ALA:HB1	1.90	0.54
2:J6:24:LEU:HD13	11:K6:202:CYC:HBB3	1.88	0.54
3:P6:113:LEU:HD11	3:P6:171:VAL:HG22	1.88	0.54
3:X6:113:LEU:HD11	3:X6:171:VAL:HG22	1.88	0.54
8:B7:90:ARG:NH1	8:B7:94:TYR:OH	2.40	0.54
8:B7:91:TYR:CE2	11:B7:1001:CYC:CBB	2.90	0.54
8:R7:90:ARG:NH1	8:R7:94:TYR:OH	2.40	0.54
8:T7:90:ARG:NH1	8:T7:94:TYR:OH	2.40	0.54
1:A8:194:VAL:HG21	1:A8:196:TRP:HZ3	1.61	0.54
2:D8:152:ASN:CG	2:L8:21:ASN:OD1	2.48	0.54
11:I8:202:CYC:CGA	11:I8:202:CYC:CMA	2.85	0.54
4:N8:47:TYR:OH	3:T8:88:ILE:CD1	2.55	0.54
11:H1:201:CYC:CGD	3:M1:57:ARG:HH12	2.19	0.54
11:G2:201:CYC:CGA	11:G2:201:CYC:CMA	2.85	0.54
3:P2:151:GLY:H	11:P2:202:CYC:C1C	2.20	0.54
2:W2:73:ASN:HD22	2:W2:123:ASP:HB3	1.72	0.54
5:03:637:GLU:CD	6:G7:46:MET:CE	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:299:SER:HG	8:j3:87:TYR:HH	1.54	0.54
7:Z3:25:ARG:CG	7:L7:25:ARG:NE	2.69	0.54
7:d3:131:ARG:HG3	7:d3:157:ILE:HD13	1.89	0.54
8:p3:109:LEU:HD13	8:p3:159:GLY:HA3	1.88	0.54
8:z3:39:ARG:O	8:z3:43:THR:OG1	2.25	0.54
2:J4:60:TYR:O	2:J5:61:SER:HB3	2.07	0.54
3:M4:40:ALA:HB2	3:M4:156:LEU:HD13	1.89	0.54
3:X4:142:VAL:CG2	11:X4:202:CYC:HBC3	2.38	0.54
2:Y4:30:ARG:NH1	2:Y4:33:GLN:OE1	2.40	0.54
2:F5:40:ALA:HB2	2:F5:146:ALA:HB1	1.90	0.54
2:L5:78:GLN:HA	2:L5:81:LYS:HG3	1.88	0.54
2:W5:78:GLN:HA	2:W5:81:LYS:HG3	1.88	0.54
8:B7:81:CYS:SG	11:B7:1001:CYC:C4C	2.95	0.54
8:F7:91:TYR:CE2	11:F7:1001:CYC:CBB	2.90	0.54
11:H7:1001:CYC:CGA	8:M7:66:THR:HG22	2.35	0.54
7:L7:105:GLU:HA	7:L7:109:LEU:HB2	1.89	0.54
8:P7:90:ARG:NH1	8:P7:94:TYR:OH	2.40	0.54
3:K8:39:ASP:OD1	3:K8:42:SER:OG	2.19	0.54
2:S8:83:LYS:HZ2	11:S8:201:CYC:CGA	2.19	0.54
2:U8:18:PHE:CE1	3:V8:91:ARG:HA	2.42	0.54
2:Y8:99:LEU:HD11	2:Y8:149:GLU:OE2	2.03	0.54
3:T1:37:ARG:NH1	3:T1:97:THR:O	2.39	0.54
3:P2:92:TYR:CD2	3:P2:109:CYS:SG	3.01	0.54
3:P2:113:LEU:HD11	3:P2:171:VAL:HG22	1.88	0.54
5:03:294:TYR:OH	8:M3:83:ARG:NH2	2.39	0.54
5:13:454:PHE:HD1	11:c3:1001:CYC:HMA2	1.71	0.54
5:13:567:ARG:HD2	5:13:642:GLU:HG2	1.89	0.54
7:T3:131:ARG:HG3	7:T3:157:ILE:HD13	1.89	0.54
7:X3:25:ARG:HG3	7:H7:25:ARG:HD2	1.88	0.54
8:a3:39:ARG:O	8:a3:43:THR:OG1	2.25	0.54
8:c3:67:ARG:HE	1:A6:214:ASP:CG	2.08	0.54
7:f3:8:ILE:O	7:f3:12:ASP:HB2	2.08	0.54
8:j3:109:LEU:HD13	8:j3:159:GLY:HA3	1.88	0.54
7:o3:8:ILE:O	7:o3:12:ASP:HB2	2.08	0.54
7:o3:30:VAL:HG21	8:p3:34:GLY:HA3	1.89	0.54
8:v3:39:ARG:O	8:v3:43:THR:OG1	2.25	0.54
2:F4:149:GLU:HG3	2:F4:153:TYR:CE2	2.42	0.54
3:I4:39:ASP:OD1	3:I4:42:SER:OG	2.19	0.54
2:L4:134:LYS:CA	2:L4:137:LYS:HG2	2.36	0.54
3:P4:40:ALA:CB	3:P4:156:LEU:CD1	2.63	0.54
2:S4:150:THR:HG22	2:S4:154:ILE:HG13	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W4:30:ARG:NH1	2:W4:33:GLN:OE1	2.40	0.54
3:P5:157:GLN:NE2	3:P5:161:GLU:OE2	2.40	0.54
2:J6:30:ARG:NH2	2:J6:33:GLN:OE1	2.40	0.54
2:L6:94:MET:HG3	2:L6:111:LEU:HG	1.89	0.54
3:M6:33:GLU:HB2	3:M6:36:LYS:CE	2.37	0.54
7:A7:105:GLU:HA	7:A7:109:LEU:HB2	1.89	0.54
8:D7:109:LEU:HD13	8:D7:159:GLY:HA3	1.89	0.54
8:F7:90:ARG:NH1	8:F7:94:TYR:OH	2.40	0.54
7:O7:105:GLU:HA	7:O7:109:LEU:HB2	1.89	0.54
7:S7:25:ARG:HA	7:S7:25:ARG:NH1	2.20	0.54
7:S7:25:ARG:HH11	7:S7:25:ARG:CB	2.20	0.54
6:b7:3:MET:H	6:b7:57:THR:HG1	1.55	0.54
2:B8:149:GLU:CD	2:B8:153:TYR:HE2	2.14	0.54
3:C8:153:CYS:HB3	11:C8:201:CYC:HAC2	1.83	0.54
2:D8:30:ARG:NH1	2:D8:33:GLN:OE1	2.40	0.54
4:N8:210:GLY:HA3	4:N8:283:ALA:HA	1.89	0.54
4:N8:234:ALA:HB2	4:N8:267:ARG:HH12	1.71	0.54
2:O8:32:ARG:HH11	11:X8:202:CYC:HBA2	1.72	0.54
2:Q8:154:ILE:O	2:Q8:158:ILE:HG13	2.06	0.54
2:W8:150:THR:C	2:W8:153:TYR:HB2	2.33	0.54
3:X8:139:VAL:C	3:X8:142:VAL:CG1	2.80	0.54
3:Z8:112:GLY:O	3:Z8:116:THR:OG1	2.26	0.54
1:A1:203:PHE:CD1	1:A1:203:PHE:C	2.86	0.54
2:J1:84:CYS:CA	11:J1:201:CYC:CAC	2.74	0.54
3:G2:41:VAL:HG22	3:G2:97:THR:HG23	1.90	0.54
3:X2:149:THR:OG1	11:X2:202:CYC:HAD1	2.08	0.54
5:03:442:VAL:HG21	5:03:608:ARG:CD	2.32	0.54
7:I3:87:TYR:HB3	11:I3:1001:CYC:HBB3	1.88	0.54
7:I3:131:ARG:HG3	7:I3:157:ILE:HD13	1.89	0.54
7:K3:8:ILE:O	7:K3:12:ASP:HB2	2.08	0.54
8:U3:109:LEU:HD13	8:U3:159:GLY:HA3	1.88	0.54
8:c3:39:ARG:O	8:c3:43:THR:OG1	2.25	0.54
7:d3:78:THR:HB	1:A6:199:ALA:HB2	1.88	0.54
7:i3:8:ILE:O	7:i3:12:ASP:HB2	2.08	0.54
7:q3:69:GLY:C	7:V7:64:ASP:OD2	2.51	0.54
7:u3:76:GLU:HG3	1:A8:203:PHE:CE2	2.33	0.54
1:A4:63:GLN:NE2	1:A4:87:SER:OG	2.40	0.54
3:E4:153:CYS:SG	11:E4:202:CYC:HAC2	2.47	0.54
3:K4:84:ARG:HD2	4:N4:251:TYR:CD1	2.42	0.54
2:D5:78:GLN:HA	2:D5:81:LYS:HG3	1.88	0.54
3:G5:37:ARG:NH1	3:G5:97:THR:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H5:78:GLN:HA	2:H5:81:LYS:HG3	1.88	0.54
11:P5:202:CYC:CAB	2:W5:149:GLU:OE2	2.44	0.54
2:Q5:84:CYS:SG	11:Q5:201:CYC:C2C	2.89	0.54
2:U5:24:LEU:HD13	11:U5:202:CYC:CBB	2.36	0.54
1:A6:182:ASP:OD1	1:A6:182:ASP:N	2.35	0.54
3:K6:3:ASP:H	3:K6:6:THR:HG1	1.53	0.54
3:X6:149:THR:OG1	11:X6:202:CYC:HAD1	2.08	0.54
3:Z6:151:GLY:CA	11:Z6:202:CYC:C4B	2.85	0.54
7:V7:105:GLU:HA	7:V7:109:LEU:HB2	1.89	0.54
8:W7:81:CYS:SG	11:W7:1001:CYC:C4C	2.95	0.54
8:W7:91:TYR:CE2	11:W7:1001:CYC:CBB	2.90	0.54
8:W7:109:LEU:HD13	8:W7:159:GLY:HA3	1.89	0.54
7:Z7:105:GLU:HA	7:Z7:109:LEU:HB2	1.89	0.54
1:A8:63:GLN:NE2	1:A8:87:SER:OG	2.40	0.54
3:Z8:41:VAL:HG21	3:Z8:98:PHE:HA	1.89	0.54
1:A1:186:ARG:HH21	1:A1:192:PRO:HG3	1.72	0.54
2:F1:84:CYS:SG	11:F1:201:CYC:C2C	2.89	0.54
3:G1:86:MET:HE3	11:G1:201:CYC:HBC1	1.89	0.54
2:Q1:78:GLN:HA	2:Q1:81:LYS:HG3	1.88	0.54
2:W1:78:GLN:HA	2:W1:81:LYS:HG3	1.88	0.54
3:Z1:86:MET:HE3	11:Z1:201:CYC:HBC1	1.89	0.54
1:A2:93:SER:HB3	1:A2:180:ARG:HD2	1.89	0.54
3:G2:36:LYS:HD3	3:G2:152:ASP:O	2.08	0.54
3:K2:150:SER:C	11:K2:202:CYC:CMD	2.81	0.54
3:M2:7:ARG:HD2	3:T2:169:LYS:HZ1	1.72	0.54
3:P2:106:ASN:HA	3:P2:110:LEU:CD1	2.36	0.54
2:Y2:73:ASN:HD22	2:Y2:123:ASP:HB3	1.72	0.54
5:03:642:GLU:OE2	6:G7:42:ARG:CZ	2.56	0.54
7:K3:87:TYR:HB3	11:K3:1001:CYC:HBB3	1.88	0.54
7:P3:87:TYR:HB3	11:P3:1001:CYC:HBB3	1.88	0.54
7:P3:131:ARG:HG3	7:P3:157:ILE:HD13	1.89	0.54
7:R3:87:TYR:HB3	11:R3:1001:CYC:HBB3	1.88	0.54
7:T3:87:TYR:HB3	11:T3:1001:CYC:HBB3	1.88	0.54
7:Z3:87:TYR:HB3	11:Z3:1001:CYC:HBB3	1.88	0.54
7:d3:52:LYS:HZ1	1:A6:201:ARG:CG	2.11	0.54
7:f3:131:ARG:HG3	7:f3:157:ILE:HD13	1.89	0.54
8:h3:109:LEU:HD13	8:h3:159:GLY:HA3	1.88	0.54
7:k3:131:ARG:HG3	7:k3:157:ILE:HD13	1.89	0.54
7:s3:8:ILE:O	7:s3:12:ASP:HB2	2.08	0.54
7:y3:131:ARG:HG3	7:y3:157:ILE:HD13	1.89	0.54
2:F4:24:LEU:CD2	3:G4:39:ASP:HB2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O4:32:ARG:HH11	11:X4:202:CYC:HBA2	1.72	0.54
3:P4:112:GLY:O	3:P4:116:THR:OG1	2.26	0.54
2:S4:30:ARG:NH1	2:S4:33:GLN:OE1	2.40	0.54
3:T4:37:ARG:N	3:T4:156:LEU:HD11	2.23	0.54
2:U4:17:ARG:CZ	2:U4:17:ARG:HB2	2.36	0.54
3:V4:151:GLY:CA	11:V4:202:CYC:HMD3	2.17	0.54
2:W4:150:THR:C	2:W4:153:TYR:HB2	2.33	0.54
1:A5:127:ILE:HB	11:A5:301:CYC:HBA1	1.90	0.54
2:J5:40:ALA:HB2	2:J5:146:ALA:HB1	1.90	0.54
2:S5:78:GLN:HA	2:S5:81:LYS:HG3	1.88	0.54
3:V5:157:GLN:NE2	3:V5:161:GLU:OE2	2.39	0.54
2:F6:27:LEU:CD2	3:G6:38:SER:OG	2.55	0.54
2:Y6:30:ARG:NH2	2:Y6:33:GLN:OE1	2.39	0.54
7:E7:105:GLU:HA	7:E7:109:LEU:HB2	1.89	0.54
8:I7:109:LEU:HD13	8:I7:159:GLY:HA3	1.89	0.54
8:M7:81:CYS:SG	11:M7:1001:CYC:C4C	2.95	0.54
8:M7:109:LEU:HD13	8:M7:159:GLY:HA3	1.89	0.54
8:P7:91:TYR:CE2	11:P7:1001:CYC:CBB	2.90	0.54
2:B8:36:PHE:CE1	2:B8:149:GLU:OE2	2.60	0.54
2:H8:30:ARG:NH1	2:H8:33:GLN:OE1	2.40	0.54
2:J8:30:ARG:NH1	2:J8:33:GLN:OE1	2.40	0.54
2:O8:86:ARG:HH22	11:O8:201:CYC:H2A	0.58	0.54
3:V8:37:ARG:NH1	3:V8:159:GLU:CD	2.59	0.54
2:W8:30:ARG:NH1	2:W8:33:GLN:OE1	2.40	0.54
2:H1:40:ALA:HB2	2:H1:146:ALA:HB1	1.90	0.54
3:M1:37:ARG:NH1	3:M1:97:THR:O	2.40	0.54
4:N1:32:GLN:HA	4:N1:35:ILE:HD12	1.90	0.54
11:N1:301:CYC:HBC1	3:T1:86:MET:HE3	1.89	0.54
1:A2:55:PHE:HD2	1:A2:175:ASN:HB3	1.72	0.54
1:A2:206:PRO:HD2	7:N3:86:ASP:OD2	2.07	0.54
2:L2:73:ASN:HD22	2:L2:123:ASP:HB3	1.72	0.54
2:S2:94:MET:HG3	2:S2:111:LEU:HG	1.88	0.54
5:03:422:LYS:HB3	8:O3:110:ASN:HD21	1.73	0.54
7:G3:87:TYR:HB3	11:G3:1001:CYC:HBB3	1.88	0.54
8:H3:109:LEU:HD13	8:H3:159:GLY:HA3	1.88	0.54
7:I3:63:PRO:HD2	7:C7:69:GLY:HA3	1.90	0.54
7:K3:16:ARG:O	8:L3:94:TYR:OH	2.25	0.54
7:X3:8:ILE:O	7:X3:12:ASP:HB2	2.08	0.54
7:d3:82:LEU:CD1	1:A6:200:VAL:HA	2.36	0.54
8:e3:105:ASP:HA	8:e3:109:LEU:HB2	1.90	0.54
8:v3:46:ALA:CB	7:O7:154:ASP:OD1	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:x3:105:ASP:HA	8:x3:109:LEU:HB2	1.90	0.54
1:A4:196:TRP:CZ2	7:X7:63:PRO:CD	2.87	0.54
11:F4:201:CYC:CGA	11:F4:201:CYC:CMA	2.86	0.54
3:M4:67:ILE:CD1	11:M4:201:CYC:H2A	2.19	0.54
2:U4:30:ARG:NH1	2:U4:33:GLN:OE1	2.40	0.54
2:J5:78:GLN:HA	2:J5:81:LYS:HG3	1.88	0.54
2:O5:40:ALA:HB2	2:O5:146:ALA:HB1	1.90	0.54
2:U5:40:ALA:HB2	2:U5:146:ALA:HB1	1.90	0.54
2:W5:40:ALA:HB2	2:W5:146:ALA:HB1	1.90	0.54
2:J6:84:CYS:CA	11:J6:201:CYC:HAC1	2.31	0.54
2:L6:84:CYS:CA	11:L6:201:CYC:HAC1	2.31	0.54
3:R6:33:GLU:HA	3:R6:36:LYS:NZ	2.23	0.54
2:S6:73:ASN:HD22	2:S6:123:ASP:HB3	1.72	0.54
3:T6:37:ARG:CB	3:T6:156:LEU:HD21	2.38	0.54
8:D7:90:ARG:NH1	8:D7:94:TYR:OH	2.40	0.54
8:T7:109:LEU:HD13	8:T7:159:GLY:HA3	1.89	0.54
7:X7:105:GLU:HA	7:X7:109:LEU:HB2	1.89	0.54
6:b7:3:MET:N	6:b7:57:THR:OG1	2.39	0.54
2:J1:40:ALA:HB2	2:J1:146:ALA:HB1	1.90	0.54
2:S1:40:ALA:HB2	2:S1:146:ALA:HB1	1.90	0.54
2:H2:94:MET:HG3	2:H2:111:LEU:HG	1.88	0.54
11:P2:202:CYC:CGA	11:P2:202:CYC:CMA	2.85	0.54
5:13:702:LEU:HD22	8:t3:10:ASN:HD22	1.73	0.54
7:I3:151:ALA:CB	7:A7:20:PRO:CG	2.72	0.54
8:M3:16:GLY:HA3	9:Q3:69:ALA:HB1	1.88	0.54
8:S3:39:ARG:O	8:S3:43:THR:OG1	2.25	0.54
7:T3:8:ILE:O	7:T3:12:ASP:HB2	2.08	0.54
8:U3:73:TYR:OH	10:V3:90:ARG:NH2	2.41	0.54
8:W3:39:ARG:O	8:W3:43:THR:OG1	2.25	0.54
8:a3:105:ASP:HA	8:a3:109:LEU:HB2	1.90	0.54
7:q3:8:ILE:O	7:q3:12:ASP:HB2	2.08	0.54
7:w3:83:ARG:NH1	1:A4:215:PRO:HG3	2.23	0.54
3:G4:42:SER:HA	3:G4:45:THR:HG22	1.90	0.54
2:J4:24:LEU:CD2	3:K4:42:SER:CB	2.73	0.54
2:L4:134:LYS:O	2:L4:137:LYS:CG	2.54	0.54
4:N4:273:GLN:OE1	4:N4:277:ARG:NH2	2.40	0.54
3:V4:42:SER:HA	3:V4:45:THR:HG22	1.90	0.54
3:Z4:41:VAL:HG21	3:Z4:98:PHE:HA	1.89	0.54
3:C5:57:ARG:NH1	11:C5:202:CYC:H2D	1.98	0.54
3:G5:86:MET:HE3	11:G5:201:CYC:HBC1	1.89	0.54
3:Z5:86:MET:HE3	11:Z5:201:CYC:HBC1	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J6:73:ASN:HD22	2:J6:123:ASP:HB3	1.72	0.54
8:F7:154:ASP:O	8:F7:158:SER:OG	2.26	0.54
8:a7:109:LEU:HD13	8:a7:159:GLY:HA3	1.89	0.54
3:X8:112:GLY:O	3:X8:116:THR:OG1	2.26	0.54
2:O1:78:GLN:HA	2:O1:81:LYS:HG3	1.88	0.54
11:M2:202:CYC:CGA	11:M2:202:CYC:CMA	2.85	0.54
4:N2:155:VAL:O	4:N2:159:HIS:ND1	2.37	0.54
2:O2:94:MET:HG3	2:O2:111:LEU:HG	1.89	0.54
7:I3:8:ILE:O	7:I3:12:ASP:HB2	2.08	0.54
8:L3:105:ASP:HA	8:L3:109:LEU:HB2	1.90	0.54
8:L3:109:LEU:HD13	8:L3:159:GLY:HA3	1.88	0.54
8:U3:105:ASP:HA	8:U3:109:LEU:HB2	1.90	0.54
8:h3:39:ARG:O	8:h3:43:THR:OG1	2.25	0.54
7:q3:131:ARG:HG3	7:q3:157:ILE:HD13	1.89	0.54
1:A4:166:SER:N	2:F4:109:GLU:OE2	2.31	0.54
2:D4:152:ASN:CG	2:L4:21:ASN:OD1	2.48	0.54
3:K4:82:CYS:HG	11:K4:201:CYC:CAC	2.08	0.54
3:P4:39:ASP:OD1	3:P4:42:SER:OG	2.19	0.54
2:S4:83:LYS:HZ1	11:S4:201:CYC:CGA	2.20	0.54
2:U4:97:TYR:OH	3:V4:17:GLU:O	2.25	0.54
2:Y4:19:LEU:HD21	3:Z4:95:TYR:HD1	1.72	0.54
1:A5:184:TYR:O	1:A5:187:SER:OG	2.26	0.54
2:H5:84:CYS:SG	11:H5:201:CYC:C2C	2.89	0.54
4:N5:248:THR:N	4:N5:249:PRO:HD3	2.23	0.54
3:V5:52:VAL:HG11	3:V5:87:GLU:HG3	1.90	0.54
2:B6:152:ASN:OD1	3:I6:46:ASN:ND2	2.32	0.54
3:P6:92:TYR:CD2	3:P6:109:CYS:SG	3.01	0.54
7:H7:105:GLU:HA	7:H7:109:LEU:HB2	1.89	0.54
7:X7:117:LYS:HA	7:X7:117:LYS:HE3	1.88	0.54
3:E8:47:ASN:HD22	3:E8:141:ILE:HD13	1.73	0.54
11:E8:202:CYC:CGA	11:E8:202:CYC:CMA	2.85	0.54
11:F8:201:CYC:CGA	11:F8:201:CYC:CMA	2.86	0.54
2:J8:24:LEU:HD11	3:K8:38:SER:O	2.08	0.54
3:M8:42:SER:HA	3:M8:45:THR:HG22	1.90	0.54
2:Q8:27:LEU:HD13	3:R8:38:SER:HB3	1.88	0.54
3:R8:42:SER:HA	3:R8:45:THR:HG22	1.90	0.54
11:R8:201:CYC:CGA	11:R8:201:CYC:CMA	2.85	0.54
2:B1:28:TYR:HH	11:C1:201:CYC:HB	1.52	0.54
3:P1:52:VAL:HG11	3:P1:87:GLU:HG3	1.90	0.54
3:R1:52:VAL:HG11	3:R1:87:GLU:HG3	1.90	0.54
2:U1:19:LEU:HB2	3:V1:45:THR:HG21	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E2:203:CYC:HAC1	2:F2:84:CYS:CA	2.31	0.54
2:H2:73:ASN:HD22	2:H2:123:ASP:HB3	1.72	0.54
3:M2:151:GLY:CA	11:M2:202:CYC:HMD1	2.04	0.54
4:N2:243:VAL:HG21	4:N2:275:ILE:HD13	1.90	0.54
2:S2:84:CYS:CA	11:S2:201:CYC:HAC1	2.31	0.54
3:V2:37:ARG:CA	3:V2:156:LEU:HD21	2.36	0.54
5:13:522:ASN:HD22	5:13:522:ASN:N	2.05	0.54
5:13:719:THR:OG1	6:b7:20:ARG:HG3	2.08	0.54
11:13:902:CYC:HMD3	8:Y3:71:ASN:O	2.08	0.54
7:R3:8:ILE:O	7:R3:12:ASP:HB2	2.08	0.54
7:X3:113:ARG:CZ	7:J7:117:LYS:HZ2	2.21	0.54
7:X3:131:ARG:HG3	7:X3:157:ILE:HD13	1.89	0.54
7:Z3:8:ILE:O	7:Z3:12:ASP:HB2	2.08	0.54
8:r3:39:ARG:O	8:r3:43:THR:OG1	2.25	0.54
7:u3:8:ILE:O	7:u3:12:ASP:HB2	2.08	0.54
2:B4:30:ARG:NH1	2:B4:33:GLN:OE1	2.40	0.54
3:C4:43:ARG:HH12	11:C4:201:CYC:H3C	1.73	0.54
2:D4:150:THR:HG22	2:D4:154:ILE:CD1	2.37	0.54
2:H4:30:ARG:NH1	2:H4:33:GLN:OE1	2.40	0.54
2:J4:30:ARG:NH1	2:J4:33:GLN:OE1	2.40	0.54
2:J4:64:PRO:CG	2:J5:58:ALA:CA	2.77	0.54
3:M4:42:SER:HA	3:M4:45:THR:HG22	1.90	0.54
3:M4:112:GLY:O	3:M4:116:THR:OG1	2.26	0.54
4:N4:2:PRO:O	3:R4:77:ARG:NH1	2.41	0.54
3:R4:67:ILE:HD12	2:S4:86:ARG:NH2	2.22	0.54
2:U4:18:PHE:HE1	3:V4:91:ARG:CA	2.21	0.54
3:C5:52:VAL:HG11	3:C5:87:GLU:HG3	1.90	0.54
3:T5:52:VAL:HG11	3:T5:87:GLU:HG3	1.90	0.54
3:Z5:52:VAL:HG11	3:Z5:87:GLU:HG3	1.90	0.54
3:K6:113:LEU:HD11	3:K6:171:VAL:HG22	1.89	0.54
3:M6:7:ARG:HD2	3:T6:169:LYS:HZ1	1.72	0.54
11:Z6:202:CYC:CGA	11:Z6:202:CYC:CMA	2.85	0.54
8:M7:154:ASP:O	8:M7:158:SER:OG	2.26	0.54
8:R7:91:TYR:CE2	11:R7:1001:CYC:CBB	2.90	0.54
3:G8:42:SER:HA	3:G8:45:THR:HG22	1.90	0.54
3:M8:43:ARG:NH2	3:M8:144:ASP:OD1	2.41	0.54
4:N8:44:GLY:O	4:N8:45:ASN:HB3	2.08	0.54
3:X8:142:VAL:CG2	11:X8:202:CYC:HBC3	2.38	0.54
3:E1:52:VAL:HG11	3:E1:87:GLU:HG3	1.90	0.53
3:P1:86:MET:HE3	11:P1:201:CYC:HBC1	1.89	0.53
2:Q1:24:LEU:HD12	11:R1:202:CYC:HBB1	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R1:57:ARG:HH12	11:S1:201:CYC:CGD	2.18	0.53
3:T2:113:LEU:HD11	3:T2:171:VAL:HG22	1.88	0.53
5:13:518:GLY:CA	8:I7:118:SER:O	2.56	0.53
6:23:8:ALA:O	6:23:26:TYR:HA	2.08	0.53
6:23:44:MET:HB3	8:W3:107:ARG:HG2	1.89	0.53
7:G3:124:ASP:OD1	7:G3:124:ASP:N	2.32	0.53
8:W3:105:ASP:HA	8:W3:109:LEU:HB2	1.90	0.53
10:m3:14:GLU:OE1	10:m3:16:ARG:NH2	2.40	0.53
8:n3:105:ASP:HA	8:n3:109:LEU:HB2	1.90	0.53
11:C4:201:CYC:CGA	11:C4:201:CYC:CMA	2.85	0.53
2:O4:21:ASN:N	2:W4:152:ASN:HD21	2.06	0.53
2:S4:83:LYS:NZ	11:S4:201:CYC:H2A	2.05	0.53
2:U4:18:PHE:CE1	3:V4:91:ARG:HA	2.42	0.53
3:V4:112:GLY:O	3:V4:116:THR:OG1	2.26	0.53
3:V4:114:ARG:NH2	3:V4:172:GLU:OE2	2.42	0.53
3:V4:143:MET:HA	11:V4:202:CYC:CBC	2.36	0.53
3:Z4:140:ALA:HA	3:Z4:143:MET:HB3	1.90	0.53
2:D6:4:PRO:HD3	2:L6:22:THR:HG22	1.90	0.53
3:E6:153:CYS:HB2	11:E6:202:CYC:H2C	1.89	0.53
2:F6:84:CYS:CA	11:F6:201:CYC:HAC1	2.31	0.53
3:R6:36:LYS:HZ2	3:R6:36:LYS:CB	2.21	0.53
8:W7:154:ASP:O	8:W7:158:SER:OG	2.26	0.53
3:E8:153:CYS:SG	11:E8:202:CYC:HAC2	2.47	0.53
11:E8:203:CYC:CAC	2:F8:84:CYS:CB	2.86	0.53
2:F8:149:GLU:HG3	2:F8:153:TYR:CE2	2.42	0.53
3:K8:150:SER:C	11:K8:202:CYC:HMD2	2.33	0.53
2:L8:134:LYS:CA	2:L8:137:LYS:HG2	2.36	0.53
11:L8:202:CYC:CGA	11:L8:202:CYC:CMA	2.85	0.53
2:O8:24:LEU:HB2	11:P8:202:CYC:CBB	2.38	0.53
3:R8:114:ARG:NH2	3:R8:172:GLU:OE2	2.42	0.53
3:V8:42:SER:HA	3:V8:45:THR:HG22	1.90	0.53
3:V8:114:ARG:NH2	3:V8:172:GLU:OE2	2.41	0.53
2:Y8:40:ALA:HB2	2:Y8:146:ALA:HB2	1.90	0.53
2:Y8:151:ASN:O	2:Y8:155:ASP:CB	2.45	0.53
2:B1:111:LEU:CD2	11:B1:201:CYC:CAB	2.78	0.53
3:K1:86:MET:HE3	11:K1:201:CYC:HBC1	1.89	0.53
1:A2:201:ARG:CZ	7:N3:52:LYS:HZ3	2.22	0.53
4:N2:189:LEU:O	4:N2:193:LEU:HB2	2.08	0.53
3:T2:37:ARG:CB	3:T2:156:LEU:HD21	2.38	0.53
5:03:567:ARG:HD2	5:03:642:GLU:HG2	1.89	0.53
5:03:704:GLN:O	8:x3:77:ARG:NH2	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:314:GLU:OE2	5:13:317:ARG:NH2	2.41	0.53
5:13:337:ARG:NH1	5:13:340:GLU:OE1	2.40	0.53
8:J3:81:CYS:SG	11:J3:201:CYC:HBC1	2.48	0.53
8:J3:105:ASP:HA	8:J3:109:LEU:HB2	1.90	0.53
8:Y3:105:ASP:HA	8:Y3:109:LEU:HB2	1.90	0.53
7:d3:8:ILE:O	7:d3:12:ASP:HB2	2.08	0.53
7:o3:67:SER:OG	7:o3:68:PRO:HD2	2.08	0.53
7:o3:131:ARG:HG3	7:o3:157:ILE:HD13	1.89	0.53
7:y3:8:ILE:O	7:y3:12:ASP:HB2	2.08	0.53
2:D4:26:TYR:OH	2:L4:4:PRO:HA	2.07	0.53
3:E4:42:SER:HA	3:E4:45:THR:HG22	1.90	0.53
2:F4:25:GLN:CD	2:J4:33:GLN:CB	2.81	0.53
3:K4:76:ASN:ND2	2:L4:111:LEU:O	2.34	0.53
3:R4:42:SER:HA	3:R4:45:THR:HG22	1.90	0.53
2:S4:148:THR:OG1	11:Z4:202:CYC:HBC1	2.08	0.53
3:T4:139:VAL:C	3:T4:142:VAL:CG1	2.81	0.53
3:M5:52:VAL:HG11	3:M5:87:GLU:HG3	1.90	0.53
3:R5:52:VAL:HG11	3:R5:87:GLU:HG3	1.90	0.53
2:D6:73:ASN:HD22	2:D6:123:ASP:HB3	1.72	0.53
3:I6:104:VAL:O	3:I6:108:ARG:HG2	2.08	0.53
4:N6:28:ARG:O	4:N6:28:ARG:NH2	2.38	0.53
11:T6:201:CYC:CGA	11:T6:201:CYC:CMA	2.86	0.53
3:E8:42:SER:HA	3:E8:45:THR:HG22	1.90	0.53
3:K8:114:ARG:NH2	3:K8:172:GLU:OE2	2.42	0.53
3:K8:139:VAL:O	3:K8:142:VAL:C	2.50	0.53
4:N8:2:PRO:O	3:R8:77:ARG:NH1	2.41	0.53
3:R8:67:ILE:HD12	2:S8:86:ARG:NH2	2.22	0.53
3:T8:114:ARG:NH2	3:T8:172:GLU:OE2	2.42	0.53
3:T8:139:VAL:C	3:T8:142:VAL:CG1	2.81	0.53
2:U8:97:TYR:OH	3:V8:17:GLU:O	2.25	0.53
3:X8:114:ARG:NH2	3:X8:172:GLU:OE2	2.42	0.53
1:A1:184:TYR:O	1:A1:187:SER:OG	2.26	0.53
1:A1:203:PHE:CD1	1:A1:204:ARG:CG	2.90	0.53
1:A1:203:PHE:HB2	8:p3:62:TYR:OH	2.09	0.53
2:L1:84:CYS:SG	11:L1:201:CYC:C2C	2.89	0.53
4:N1:238:VAL:HG12	4:N1:288:ALA:HB3	1.89	0.53
3:P1:37:ARG:NH1	3:P1:97:THR:O	2.39	0.53
2:S1:78:GLN:HA	2:S1:81:LYS:HG3	1.89	0.53
3:V1:52:VAL:HG11	3:V1:87:GLU:HG3	1.90	0.53
2:F2:17:ARG:HD2	2:J2:2:LYS:NZ	2.24	0.53
3:M2:113:LEU:HD11	3:M2:171:VAL:HG22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R2:33:GLU:HA	3:R2:36:LYS:NZ	2.23	0.53
3:T2:153:CYS:SG	11:T2:202:CYC:CBC	2.97	0.53
7:I3:20:PRO:HG2	7:A7:151:ALA:O	2.08	0.53
8:j3:39:ARG:O	8:j3:43:THR:OG1	2.25	0.53
8:p3:39:ARG:O	8:p3:43:THR:OG1	2.25	0.53
8:r3:105:ASP:HA	8:r3:109:LEU:HB2	1.90	0.53
8:v3:105:ASP:HA	8:v3:109:LEU:HB2	1.90	0.53
2:J4:67:THR:OG1	2:J5:57:GLN:CD	2.51	0.53
3:M4:43:ARG:NH2	3:M4:144:ASP:OD1	2.41	0.53
3:T4:114:ARG:NH2	3:T4:172:GLU:OE2	2.42	0.53
3:V4:150:SER:C	11:V4:202:CYC:HMD2	2.33	0.53
11:A5:301:CYC:HBC1	3:C5:86:MET:HE3	1.89	0.53
2:H5:40:ALA:HB2	2:H5:146:ALA:HB1	1.90	0.53
3:P5:52:VAL:HG11	3:P5:87:GLU:HG3	1.90	0.53
2:Q5:40:ALA:HB2	2:Q5:146:ALA:HB1	1.90	0.53
2:W5:24:LEU:HD13	11:X5:202:CYC:HBB2	1.90	0.53
1:A6:55:PHE:HD2	1:A6:175:ASN:HB3	1.72	0.53
2:B6:73:ASN:HD22	2:B6:123:ASP:HB3	1.72	0.53
3:I6:112:GLY:HA3	4:N6:226:LEU:HB3	1.91	0.53
3:K6:115:GLU:HG2	4:N6:214:ARG:HB2	1.90	0.53
2:S6:94:MET:HG3	2:S6:111:LEU:HG	1.88	0.53
2:Y6:73:ASN:OD1	2:Y6:73:ASN:N	2.42	0.53
8:M7:90:ARG:NH1	8:M7:94:TYR:OH	2.40	0.53
8:Y7:81:CYS:SG	11:Y7:1001:CYC:C4C	2.94	0.53
3:C8:67:ILE:HD12	11:D8:201:CYC:H2A	1.73	0.53
4:N8:200:ALA:HA	3:R8:115:GLU:HG2	1.90	0.53
11:T8:202:CYC:CGA	11:T8:202:CYC:CMA	2.85	0.53
2:W8:84:CYS:CB	11:W8:201:CYC:CAC	2.86	0.53
3:Z8:114:ARG:NH2	3:Z8:172:GLU:OE2	2.42	0.53
3:C1:57:ARG:NH1	11:C1:202:CYC:H2D	1.98	0.53
3:K1:111:ASN:OD1	3:K1:111:ASN:N	2.31	0.53
2:L1:40:ALA:HB2	2:L1:146:ALA:HB1	1.90	0.53
3:Z1:52:VAL:HG11	3:Z1:87:GLU:HG3	1.90	0.53
3:M2:33:GLU:HB2	3:M2:36:LYS:CE	2.37	0.53
2:O2:145:ASP:OD1	11:X2:202:CYC:C4B	2.57	0.53
3:X2:109:CYS:SG	11:X2:201:CYC:HAB1	2.49	0.53
11:Z2:203:CYC:CGA	11:Z2:203:CYC:CMA	2.85	0.53
5:13:842:GLU:OE2	6:b7:42:ARG:NH1	2.40	0.53
6:33:8:ALA:O	6:33:26:TYR:HA	2.08	0.53
7:N3:8:ILE:O	7:N3:12:ASP:HB2	2.08	0.53
8:O3:39:ARG:O	8:O3:43:THR:OG1	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Q3:132:GLN:NE2	9:Q3:161:THR:OG1	2.42	0.53
7:i3:131:ARG:HG3	7:i3:157:ILE:HD13	1.89	0.53
8:j3:66:THR:HB	11:k3:1001:CYC:O1A	2.08	0.53
10:m3:10:ARG:NH2	10:m3:13:ASP:OD1	2.42	0.53
7:w3:87:TYR:HB3	11:w3:1001:CYC:HBB3	1.88	0.53
8:z3:62:TYR:CZ	1:A8:203:PHE:CA	2.91	0.53
11:C4:201:CYC:HMB1	2:H4:148:THR:HG23	1.89	0.53
3:G4:114:ARG:NH2	3:G4:172:GLU:OE2	2.42	0.53
4:N4:205:SER:HB2	3:T4:115:GLU:OE2	2.09	0.53
2:O4:24:LEU:HB2	11:P4:202:CYC:CBB	2.38	0.53
2:Y4:149:GLU:C	2:Y4:153:TYR:HB2	2.33	0.53
11:Z4:202:CYC:CGA	11:Z4:202:CYC:CMA	2.85	0.53
3:Z5:111:ASN:OD1	3:Z5:111:ASN:N	2.31	0.53
2:F6:17:ARG:HD2	2:J6:2:LYS:HZ1	1.74	0.53
11:G6:201:CYC:CGA	11:G6:201:CYC:CMA	2.85	0.53
3:I6:43:ARG:O	3:I6:47:ASN:ND2	2.42	0.53
2:J6:73:ASN:OD1	2:J6:73:ASN:N	2.42	0.53
3:K6:150:SER:C	11:K6:202:CYC:CMD	2.81	0.53
2:O6:145:ASP:OD1	11:X6:202:CYC:C4B	2.57	0.53
3:P6:33:GLU:CB	3:P6:36:LYS:HG3	2.31	0.53
7:E7:93:THR:HB	8:F7:19:LEU:HD12	1.91	0.53
8:I7:110:ASN:ND2	6:N7:56:ALA:O	2.36	0.53
7:J7:105:GLU:HA	7:J7:109:LEU:HB2	1.89	0.53
7:X7:71:ASN:ND2	11:X7:1001:CYC:NC	2.42	0.53
2:H8:84:CYS:CB	11:M8:201:CYC:CAC	2.86	0.53
3:K8:151:GLY:N	11:K8:202:CYC:OC	2.39	0.53
3:M8:67:ILE:HD12	11:M8:201:CYC:O2A	2.08	0.53
4:N8:45:ASN:ND2	4:N8:175:ALA:C	2.67	0.53
2:S8:148:THR:O	11:Z8:202:CYC:HBC1	2.07	0.53
2:U8:18:PHE:HE1	3:V8:91:ARG:CA	2.21	0.53
2:W8:28:TYR:CZ	3:X8:38:SER:OG	2.59	0.53
3:C1:52:VAL:HG11	3:C1:87:GLU:HG3	1.90	0.53
3:G1:111:ASN:OD1	3:G1:111:ASN:N	2.31	0.53
3:M1:52:VAL:HG11	3:M1:87:GLU:HG3	1.90	0.53
2:Y1:40:ALA:HB2	2:Y1:146:ALA:HB1	1.90	0.53
3:E2:43:ARG:O	3:E2:47:ASN:ND2	2.42	0.53
3:G2:43:ARG:O	3:G2:47:ASN:ND2	2.42	0.53
3:M2:43:ARG:O	3:M2:47:ASN:ND2	2.42	0.53
3:P2:43:ARG:O	3:P2:47:ASN:ND2	2.42	0.53
3:V2:43:ARG:O	3:V2:47:ASN:ND2	2.42	0.53
5:13:489:ASN:ND2	11:13:903:CYC:CGA	2.65	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:837:LEU:CD2	6:b7:42:ARG:HH21	2.21	0.53
7:b3:131:ARG:HG3	7:b3:157:ILE:HD13	1.89	0.53
3:C4:114:ARG:NH2	3:C4:172:GLU:OE2	2.42	0.53
11:E4:202:CYC:CGA	11:E4:202:CYC:CMA	2.85	0.53
3:I4:139:VAL:O	3:I4:142:VAL:N	2.42	0.53
3:R4:114:ARG:NH2	3:R4:172:GLU:OE2	2.42	0.53
2:S4:73:ASN:HD22	2:S4:123:ASP:HB3	1.74	0.53
2:U4:84:CYS:CB	11:U4:201:CYC:CAC	2.86	0.53
2:D5:40:ALA:HB2	2:D5:146:ALA:HB1	1.90	0.53
2:J5:57:GLN:HE21	2:J5:57:GLN:CA	2.04	0.53
2:J6:24:LEU:HB3	11:K6:202:CYC:HBB2	1.88	0.53
11:K6:202:CYC:CGA	11:K6:202:CYC:CMA	2.85	0.53
4:N6:164:PHE:CD2	3:R6:116:THR:HG23	2.44	0.53
2:O6:94:MET:HG3	2:O6:111:LEU:HG	1.88	0.53
8:D7:83:ARG:CZ	11:D7:1001:CYC:O2A	2.51	0.53
8:K7:91:TYR:CE2	11:K7:1001:CYC:CBB	2.90	0.53
3:C8:43:ARG:HH12	11:C8:201:CYC:H3C	1.74	0.53
3:I8:139:VAL:O	3:I8:142:VAL:N	2.42	0.53
3:T8:37:ARG:N	3:T8:156:LEU:HD11	2.23	0.53
2:W8:140:HIS:CE1	2:W8:142:LEU:CB	2.83	0.53
3:Z8:144:ASP:OD1	3:Z8:145:PRO:N	2.42	0.53
1:A1:127:ILE:HB	11:A1:301:CYC:HBA1	1.90	0.53
2:F1:40:ALA:HB2	2:F1:146:ALA:HB1	1.90	0.53
2:S1:84:CYS:CA	11:S1:201:CYC:CAC	2.74	0.53
2:U1:84:CYS:SG	11:U1:201:CYC:C2C	2.89	0.53
11:E2:202:CYC:CGA	11:E2:202:CYC:CMA	2.85	0.53
3:I2:112:GLY:HA3	4:N2:226:LEU:HB3	1.91	0.53
2:W2:94:MET:HG3	2:W2:111:LEU:HG	1.88	0.53
3:X2:43:ARG:O	3:X2:47:ASN:ND2	2.42	0.53
5:13:788:PRO:HD3	8:p3:110:ASN:HD22	1.73	0.53
5:13:837:LEU:HD11	6:b7:42:ARG:HD3	1.89	0.53
7:K3:25:ARG:HH21	7:E7:21:GLY:HA3	1.68	0.53
8:Y3:3:ASP:OD2	8:Y3:3:ASP:N	2.37	0.53
7:k3:8:ILE:O	7:k3:12:ASP:HB2	2.08	0.53
7:u3:3:ILE:CD1	7:O7:25:ARG:HH12	2.22	0.53
2:J4:24:LEU:HD11	3:K4:38:SER:O	2.08	0.53
3:K4:150:SER:C	11:K4:202:CYC:HMD2	2.33	0.53
3:P4:114:ARG:NH2	3:P4:172:GLU:OE2	2.41	0.53
3:T4:143:MET:HE2	3:T4:143:MET:CA	2.23	0.53
2:W4:73:ASN:HD22	2:W4:123:ASP:HB3	1.74	0.53
3:Z4:114:ARG:NH2	3:Z4:172:GLU:OE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E5:52:VAL:HG11	3:E5:87:GLU:HG3	1.90	0.53
3:I5:52:VAL:HG11	3:I5:87:GLU:HG3	1.91	0.53
3:I5:86:MET:HE3	11:I5:201:CYC:HBC1	1.89	0.53
3:M5:111:ASN:OD1	3:M5:111:ASN:N	2.31	0.53
2:Q5:24:LEU:HD12	11:R5:202:CYC:HBB1	1.91	0.53
2:S5:40:ALA:HB2	2:S5:146:ALA:HB1	1.90	0.53
3:G6:41:VAL:HG22	3:G6:97:THR:HG23	1.90	0.53
3:P6:36:LYS:HD3	11:P6:202:CYC:O1D	2.08	0.53
3:T6:153:CYS:SG	11:T6:201:CYC:CBC	2.97	0.53
2:W6:84:CYS:CA	11:W6:201:CYC:HAC1	2.31	0.53
8:P7:65:VAL:HA	8:P7:70:GLY:HA3	1.91	0.53
8:P7:109:LEU:HD13	8:P7:159:GLY:HA3	1.89	0.53
8:T7:65:VAL:HA	8:T7:70:GLY:HA3	1.91	0.53
3:C8:114:ARG:NH2	3:C8:172:GLU:OE2	2.42	0.53
4:N8:205:SER:HB2	3:T8:115:GLU:OE2	2.09	0.53
3:P8:114:ARG:NH2	3:P8:172:GLU:OE2	2.42	0.53
2:B1:40:ALA:HB2	2:B1:146:ALA:HB1	1.90	0.53
2:O1:40:ALA:HB2	2:O1:146:ALA:HB1	1.90	0.53
2:B2:72:ASN:HD22	3:G2:57:ARG:HH12	1.56	0.53
2:D2:73:ASN:OD1	2:D2:73:ASN:N	2.42	0.53
3:K2:43:ARG:O	3:K2:47:ASN:ND2	2.42	0.53
3:P2:35:THR:HG23	11:P2:202:CYC:O2D	2.08	0.53
3:P2:106:ASN:CG	3:P2:110:LEU:HD12	2.34	0.53
11:T2:202:CYC:CGA	11:T2:202:CYC:CMA	2.85	0.53
5:13:153:ALA:O	8:h3:18:TYR:OH	2.26	0.53
8:H3:105:ASP:HA	8:H3:109:LEU:HB2	1.90	0.53
10:V3:10:ARG:NH2	10:V3:13:ASP:OD1	2.42	0.53
7:d3:82:LEU:HB3	1:A6:203:PHE:CD2	2.44	0.53
11:d3:1001:CYC:O1A	8:h3:66:THR:OG1	2.17	0.53
11:i3:1001:CYC:O1A	8:n3:66:THR:HB	2.08	0.53
3:I4:114:ARG:NH2	3:I4:172:GLU:OE2	2.42	0.53
2:L4:134:LYS:HA	2:L4:137:LYS:CD	2.38	0.53
3:M4:114:ARG:NH2	3:M4:172:GLU:OE2	2.42	0.53
3:P4:139:VAL:O	3:P4:142:VAL:HG13	2.05	0.53
3:C5:111:ASN:OD1	3:C5:111:ASN:N	2.31	0.53
3:M5:86:MET:HE3	11:M5:201:CYC:HBC1	1.89	0.53
2:U5:28:TYR:CZ	11:U5:202:CYC:OB	2.59	0.53
2:F6:22:THR:HG22	2:J6:4:PRO:HD3	1.90	0.53
2:J6:94:MET:HG3	2:J6:111:LEU:HG	1.88	0.53
2:L6:73:ASN:OD1	2:L6:73:ASN:N	2.42	0.53
2:S6:73:ASN:OD1	2:S6:73:ASN:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X6:109:CYS:SG	11:X6:201:CYC:HAB1	2.49	0.53
3:Z6:43:ARG:O	3:Z6:47:ASN:ND2	2.42	0.53
8:B7:65:VAL:HA	8:B7:70:GLY:HA3	1.91	0.53
8:F7:65:VAL:HA	8:F7:70:GLY:HA3	1.91	0.53
7:S7:44:THR:HG22	8:T7:18:TYR:CD1	2.44	0.53
8:Y7:90:ARG:NH1	8:Y7:94:TYR:OH	2.40	0.53
7:Z7:22:GLU:HA	7:Z7:25:ARG:HB2	1.91	0.53
8:a7:81:CYS:SG	11:a7:1001:CYC:C4C	2.95	0.53
2:B8:18:PHE:HE2	3:C8:45:THR:HB	1.74	0.53
2:H8:19:LEU:HD22	2:H8:19:LEU:N	2.18	0.53
2:L8:43:THR:HG23	2:L8:142:LEU:HD21	1.91	0.53
3:P8:112:GLY:O	3:P8:116:THR:OG1	2.26	0.53
1:A1:203:PHE:HE2	1:A8:215:PRO:CG	2.16	0.53
2:B1:84:CYS:SG	11:B1:201:CYC:C2C	2.89	0.53
2:F1:24:LEU:CD1	11:G1:202:CYC:HBB2	2.30	0.53
4:N1:27:SER:OG	4:N1:28:ARG:N	2.42	0.53
3:X1:52:VAL:HG11	3:X1:87:GLU:HG3	1.90	0.53
1:A2:168:GLU:HA	3:G2:2:PHE:HE1	1.74	0.53
3:C2:43:ARG:O	3:C2:47:ASN:ND2	2.42	0.53
11:I2:203:CYC:HAC1	2:J2:84:CYS:CA	2.31	0.53
2:J2:24:LEU:HB3	11:K2:202:CYC:HBB2	1.88	0.53
3:P2:106:ASN:CA	3:P2:110:LEU:HD12	2.38	0.53
5:03:314:GLU:OE2	5:03:317:ARG:NH2	2.41	0.53
5:13:608:ARG:O	5:13:611:ILE:HG22	2.09	0.53
7:N3:131:ARG:HG3	7:N3:157:ILE:HD13	1.89	0.53
7:u3:68:PRO:HB3	1:A8:196:TRP:CG	2.44	0.53
2:B4:18:PHE:HE2	3:C4:45:THR:HB	1.74	0.53
3:E4:112:GLY:O	3:E4:116:THR:OG1	2.26	0.53
2:L4:134:LYS:HA	2:L4:137:LYS:HD3	1.90	0.53
2:O4:148:THR:OG1	11:X4:202:CYC:HMB3	2.09	0.53
3:R4:112:GLY:O	3:R4:116:THR:OG1	2.26	0.53
11:R4:201:CYC:CGA	11:R4:201:CYC:CMA	2.86	0.53
3:T4:42:SER:HA	3:T4:45:THR:HG22	1.90	0.53
3:C6:43:ARG:O	3:C6:47:ASN:ND2	2.42	0.53
3:K6:41:VAL:HG22	3:K6:97:THR:HG23	1.91	0.53
4:N6:189:LEU:O	4:N6:193:LEU:HB2	2.08	0.53
2:W6:73:ASN:OD1	2:W6:73:ASN:N	2.42	0.53
8:B7:109:LEU:HD13	8:B7:159:GLY:HA3	1.89	0.53
8:F7:109:LEU:HD13	8:F7:159:GLY:HA3	1.89	0.53
3:E8:114:ARG:NH2	3:E8:172:GLU:OE2	2.42	0.53
3:M8:114:ARG:NH2	3:M8:172:GLU:OE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R8:39:ASP:OD1	3:R8:42:SER:OG	2.19	0.53
2:S8:79:ARG:NH1	11:S8:201:CYC:O1D	2.42	0.53
2:U8:79:ARG:NH1	11:U8:201:CYC:O1D	2.42	0.53
11:V8:202:CYC:CGA	11:V8:202:CYC:CMA	2.85	0.53
2:Y8:36:PHE:HE1	2:Y8:149:GLU:OE1	1.91	0.53
4:a8:242:GLU:HG3	4:a8:260:VAL:HG22	1.90	0.53
11:B1:201:CYC:H2D	3:G1:57:ARG:NH2	2.01	0.53
3:I1:52:VAL:HG11	3:I1:87:GLU:HG3	1.90	0.53
2:J1:61:SER:OG	2:J8:64:PRO:HB3	2.09	0.53
2:W1:24:LEU:HD13	11:X1:202:CYC:HBB2	1.90	0.53
2:D2:4:PRO:HD3	2:L2:22:THR:HG22	1.90	0.53
3:K2:41:VAL:HG22	3:K2:97:THR:HG23	1.91	0.53
3:K2:115:GLU:HG2	4:N2:214:ARG:HB2	1.90	0.53
3:R2:43:ARG:O	3:R2:47:ASN:ND2	2.42	0.53
3:Z2:43:ARG:O	3:Z2:47:ASN:ND2	2.42	0.53
5:03:233:ASN:O	6:23:19:GLN:NE2	2.41	0.53
5:03:710:ARG:HH21	8:x3:76:ARG:HD2	1.74	0.53
5:13:33:ARG:O	8:h3:94:TYR:OH	2.27	0.53
5:13:441:HIS:NE2	5:13:594:GLU:OE2	2.42	0.53
8:M3:105:ASP:HA	8:M3:109:LEU:HB2	1.90	0.53
7:P3:8:ILE:O	7:P3:12:ASP:HB2	2.08	0.53
8:S3:105:ASP:HA	8:S3:109:LEU:HB2	1.90	0.53
7:w3:76:GLU:CD	1:A5:202:ARG:HA	2.34	0.53
7:w3:131:ARG:HG3	7:w3:157:ILE:HD13	1.89	0.53
8:z3:58:LYS:O	1:A8:206:PRO:HB3	2.08	0.53
2:B4:64:PRO:CD	2:J5:139:ASN:OD1	2.55	0.53
2:J4:64:PRO:HG3	2:J5:58:ALA:HA	1.87	0.53
1:A5:186:ARG:HH21	1:A5:192:PRO:HG3	1.72	0.53
2:B5:84:CYS:SG	11:B5:201:CYC:C2C	2.89	0.53
2:L5:73:ASN:OD1	2:L5:73:ASN:N	2.28	0.53
4:N5:27:SER:OG	4:N5:28:ARG:N	2.42	0.53
2:U5:24:LEU:CD1	11:U5:202:CYC:HBB1	2.39	0.53
2:F6:17:ARG:HD2	2:J6:2:LYS:NZ	2.24	0.53
3:G6:43:ARG:O	3:G6:47:ASN:ND2	2.42	0.53
4:N6:2:PRO:O	3:R6:77:ARG:NH1	2.42	0.53
3:P6:43:ARG:O	3:P6:47:ASN:ND2	2.42	0.53
11:R6:201:CYC:CGA	11:R6:201:CYC:CMA	2.85	0.53
2:U6:73:ASN:OD1	2:U6:73:ASN:N	2.42	0.53
3:V6:43:ARG:O	3:V6:47:ASN:ND2	2.42	0.53
7:A7:150:GLY:O	7:A7:154:ASP:HB3	2.09	0.53
8:D7:154:ASP:O	8:D7:158:SER:OG	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K7:81:CYS:HG	11:K7:1001:CYC:HAC2	1.65	0.53
8:R7:65:VAL:HA	8:R7:70:GLY:HA3	1.91	0.53
8:T7:91:TYR:CE2	11:T7:1001:CYC:CBB	2.90	0.53
7:V7:150:GLY:O	7:V7:154:ASP:HB3	2.09	0.53
7:Z7:44:THR:HG22	8:a7:18:TYR:CD1	2.41	0.53
3:C8:47:ASN:OD1	3:C8:47:ASN:N	2.42	0.53
2:D8:79:ARG:NH1	11:D8:201:CYC:O1D	2.42	0.53
11:F8:201:CYC:HMB2	3:G8:39:ASP:CG	2.33	0.53
3:I8:139:VAL:O	3:I8:142:VAL:HG12	2.05	0.53
2:J8:6:THR:OG1	3:K8:1:MET:SD	2.64	0.53
2:J8:73:ASN:HD22	2:J8:123:ASP:HB3	1.74	0.53
2:L8:134:LYS:HA	2:L8:137:LYS:CD	2.38	0.53
4:N8:45:ASN:HB3	4:N8:177:SER:HA	1.89	0.53
2:Y8:19:LEU:HD21	3:Z8:95:TYR:HD1	1.72	0.53
2:Y8:133:LEU:O	2:Y8:137:LYS:HG2	2.09	0.53
3:Z8:140:ALA:HA	3:Z8:143:MET:HB3	1.90	0.53
2:W1:129:TYR:HB2	2:W1:161:LEU:HD21	1.91	0.53
1:A2:193:GLN:NE2	3:G2:71:GLY:C	2.59	0.53
11:C2:202:CYC:CGA	11:C2:202:CYC:CMA	2.85	0.53
3:I2:43:ARG:O	3:I2:47:ASN:ND2	2.42	0.53
4:N2:77:GLN:NE2	4:N2:130:ASN:OD1	2.37	0.53
2:Q2:24:LEU:CD1	11:R2:201:CYC:HBB1	2.39	0.53
5:13:704:GLN:O	8:r3:77:ARG:NH2	2.41	0.53
7:G3:8:ILE:O	7:G3:12:ASP:HB2	2.08	0.53
7:Z3:25:ARG:CB	7:L7:25:ARG:CZ	2.86	0.53
8:r3:66:THR:HB	11:s3:1001:CYC:O1A	2.09	0.53
8:z3:105:ASP:HA	8:z3:109:LEU:HB2	1.90	0.53
2:D4:79:ARG:NH1	11:D4:201:CYC:O1D	2.42	0.53
11:F4:201:CYC:HMB2	3:G4:39:ASP:CG	2.33	0.53
3:I4:42:SER:HA	3:I4:45:THR:HG22	1.90	0.53
3:K4:15:ARG:HG2	3:P4:63:GLN:HE21	1.74	0.53
3:X4:140:ALA:HA	3:X4:143:MET:HB3	1.91	0.53
4:N5:32:GLN:HA	4:N5:35:ILE:HD12	1.90	0.53
3:R5:86:MET:HE3	11:R5:201:CYC:HBC1	1.89	0.53
3:X5:86:MET:HE3	11:X5:201:CYC:HBC1	1.89	0.53
2:Y5:129:TYR:HB2	2:Y5:161:LEU:HD21	1.91	0.53
2:H6:73:ASN:N	2:H6:73:ASN:OD1	2.42	0.53
4:N6:237:GLN:HA	4:N6:290:GLN:HB3	1.91	0.53
3:P6:106:ASN:CG	3:P6:110:LEU:HD12	2.34	0.53
2:Q6:24:LEU:CD1	11:R6:201:CYC:HBB1	2.39	0.53
8:D7:81:CYS:SG	11:D7:1001:CYC:C4C	2.95	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H7:112:VAL:HG12	8:M7:75:THR:HG21	1.90	0.53
7:Q7:150:GLY:O	7:Q7:154:ASP:HB3	2.09	0.53
8:W7:10:ASN:HD21	6:b7:62:THR:HB	1.72	0.53
1:A8:43:ASP:OD1	1:A8:71:ARG:NH1	2.36	0.53
3:E8:156:LEU:HD12	11:E8:202:CYC:HBC1	1.89	0.53
2:H8:73:ASN:HD22	2:H8:123:ASP:HB3	1.74	0.53
3:I8:42:SER:HA	3:I8:45:THR:HG22	1.90	0.53
3:I8:114:ARG:NH2	3:I8:172:GLU:OE2	2.42	0.53
11:I8:203:CYC:O1D	2:J8:79:ARG:NH1	2.42	0.53
11:K8:202:CYC:CGA	11:K8:202:CYC:CMA	2.85	0.53
2:L8:73:ASN:HD22	2:L8:123:ASP:HB3	1.74	0.53
2:U8:18:PHE:CE1	3:V8:91:ARG:HB2	2.44	0.53
11:V8:202:CYC:CMA	11:V8:202:CYC:CBA	2.87	0.53
3:G1:84:ARG:CZ	11:G1:201:CYC:O2A	2.57	0.52
11:G1:202:CYC:HAB2	2:J1:149:GLU:CD	2.29	0.52
3:M1:84:ARG:CZ	11:M1:201:CYC:O2A	2.58	0.52
3:X1:84:ARG:CZ	11:X1:201:CYC:O2A	2.58	0.52
11:E2:202:CYC:CMA	11:E2:202:CYC:CBA	2.87	0.52
11:G2:201:CYC:CMA	11:G2:201:CYC:CBA	2.88	0.52
11:M2:202:CYC:NB	11:M2:202:CYC:CMA	2.73	0.52
4:N2:241:VAL:HG22	4:N2:285:ILE:HG12	1.91	0.52
11:R2:201:CYC:CGA	11:R2:201:CYC:CMA	2.85	0.52
11:13:902:CYC:HAA1	8:Y3:119:LEU:HD21	1.91	0.52
8:O3:105:ASP:HA	8:O3:109:LEU:HB2	1.90	0.52
7:X3:30:VAL:HG21	8:Y3:34:GLY:HA3	1.91	0.52
7:Z3:25:ARG:CB	7:L7:25:ARG:NH2	2.72	0.52
7:b3:8:ILE:O	7:b3:12:ASP:HB2	2.08	0.52
8:j3:105:ASP:HA	8:j3:109:LEU:HB2	1.90	0.52
7:o3:73:TYR:O	7:o3:77:MET:CG	2.57	0.52
3:E4:47:ASN:HD22	3:E4:141:ILE:HD13	1.73	0.52
11:E4:202:CYC:CMA	11:E4:202:CYC:CBA	2.88	0.52
3:I4:112:GLY:O	3:I4:116:THR:OG1	2.26	0.52
3:I4:139:VAL:O	3:I4:142:VAL:HG12	2.05	0.52
2:J4:64:PRO:CB	2:J5:57:GLN:O	2.57	0.52
2:J4:73:ASN:HD22	2:J4:123:ASP:HB3	1.74	0.52
3:K4:57:ARG:NH1	11:L4:201:CYC:O2D	2.26	0.52
3:K4:112:GLY:O	3:K4:116:THR:OG1	2.26	0.52
11:L4:202:CYC:NB	11:L4:202:CYC:CMA	2.73	0.52
4:N4:200:ALA:HA	3:R4:115:GLU:HG2	1.90	0.52
2:F5:24:LEU:CD1	11:G5:202:CYC:HBB2	2.29	0.52
3:G5:84:ARG:CZ	11:G5:201:CYC:O2A	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J5:129:TYR:HB2	2:J5:161:LEU:HD21	1.91	0.52
3:K5:52:VAL:HG11	3:K5:87:GLU:HG3	1.90	0.52
3:K5:88:ILE:HD13	4:N5:251:TYR:CZ	2.42	0.52
2:L5:40:ALA:HB2	2:L5:146:ALA:HB1	1.90	0.52
2:U5:19:LEU:HB2	3:V5:45:THR:HG21	1.90	0.52
2:B6:24:LEU:HB2	11:C6:202:CYC:HBB1	1.92	0.52
11:C6:202:CYC:CMD	11:C6:202:CYC:NC	2.73	0.52
11:G6:201:CYC:NB	11:G6:201:CYC:CMA	2.72	0.52
3:K6:43:ARG:O	3:K6:47:ASN:ND2	2.42	0.52
11:K6:202:CYC:NB	11:K6:202:CYC:CMA	2.72	0.52
11:M6:202:CYC:CGA	11:M6:202:CYC:CMA	2.85	0.52
3:P6:35:THR:HG23	11:P6:202:CYC:O2D	2.08	0.52
11:Z6:202:CYC:CMA	11:Z6:202:CYC:CBA	2.88	0.52
8:B7:154:ASP:O	8:B7:158:SER:OG	2.26	0.52
7:C7:150:GLY:O	7:C7:154:ASP:HB3	2.09	0.52
7:H7:22:GLU:HA	7:H7:25:ARG:HB2	1.91	0.52
7:X7:22:GLU:HA	7:X7:25:ARG:HB2	1.91	0.52
2:B8:79:ARG:NH1	11:G8:201:CYC:O1D	2.42	0.52
3:C8:43:ARG:HH21	3:C8:148:VAL:CG1	2.10	0.52
11:E8:202:CYC:CMA	11:E8:202:CYC:CBA	2.87	0.52
2:L8:134:LYS:HA	2:L8:137:LYS:HD3	1.90	0.52
11:P8:202:CYC:NB	11:P8:202:CYC:CMA	2.73	0.52
2:S8:19:LEU:HD22	2:S8:19:LEU:N	2.25	0.52
3:T8:42:SER:HA	3:T8:45:THR:HG22	1.90	0.52
3:X8:140:ALA:HA	3:X8:143:MET:HB3	1.91	0.52
2:Y8:73:ASN:HD22	2:Y8:123:ASP:HB3	1.74	0.52
2:Y8:84:CYS:CB	11:Y8:201:CYC:CAC	2.86	0.52
4:N1:248:THR:N	4:N1:249:PRO:HD3	2.23	0.52
3:R1:86:MET:HE3	11:R1:201:CYC:HBC1	1.89	0.52
2:U1:24:LEU:CD1	11:U1:202:CYC:HBB1	2.39	0.52
2:U1:40:ALA:HB2	2:U1:146:ALA:HB1	1.90	0.52
2:B2:152:ASN:OD1	3:I2:46:ASN:ND2	2.32	0.52
11:E2:202:CYC:CMD	11:E2:202:CYC:NC	2.73	0.52
3:I2:104:VAL:O	3:I2:108:ARG:HG2	2.08	0.52
11:K2:202:CYC:CGA	11:K2:202:CYC:CMA	2.85	0.52
4:N2:2:PRO:O	3:R2:77:ARG:NH1	2.42	0.52
5:03:416:TYR:OH	8:M3:108:VAL:O	2.26	0.52
5:13:476:THR:HA	8:a3:106:GLU:HG2	1.90	0.52
7:K3:103:PRO:HA	9:Q3:169:LEU:HD21	1.91	0.52
8:l3:105:ASP:HA	8:l3:109:LEU:HB2	1.90	0.52
7:s3:131:ARG:HG3	7:s3:157:ILE:HD13	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:w3:8:ILE:O	7:w3:12:ASP:HB2	2.08	0.52
3:C4:37:ARG:HA	3:C4:156:LEU:HD21	1.91	0.52
11:C4:201:CYC:NC	11:C4:201:CYC:CMD	2.73	0.52
2:L4:150:THR:HG22	2:L4:154:ILE:HD12	1.90	0.52
3:P4:42:SER:HA	3:P4:45:THR:HG22	1.90	0.52
3:T4:112:GLY:O	3:T4:116:THR:OG1	2.26	0.52
2:U4:150:THR:C	2:U4:153:TYR:HB2	2.35	0.52
2:Y4:79:ARG:NH1	11:Y4:201:CYC:O1D	2.42	0.52
2:Y4:133:LEU:O	2:Y4:137:LYS:HG2	2.09	0.52
3:Z4:143:MET:HE3	3:Z4:143:MET:CA	2.25	0.52
3:Z4:144:ASP:OD1	3:Z4:145:PRO:N	2.42	0.52
2:F5:129:TYR:HB2	2:F5:161:LEU:HD21	1.91	0.52
11:N5:301:CYC:O2A	3:T5:84:ARG:CZ	2.57	0.52
3:V5:86:MET:HE3	11:V5:201:CYC:HBC1	1.89	0.52
2:B6:84:CYS:CA	11:B6:201:CYC:HAC1	2.31	0.52
3:E6:43:ARG:O	3:E6:47:ASN:ND2	2.42	0.52
3:R6:43:ARG:O	3:R6:47:ASN:ND2	2.42	0.52
11:Z6:202:CYC:CMD	11:Z6:202:CYC:NC	2.73	0.52
7:E7:150:GLY:O	7:E7:154:ASP:HB3	2.09	0.52
8:I7:66:THR:CG2	11:J7:1001:CYC:O1A	2.49	0.52
3:K8:15:ARG:HG2	3:P8:63:GLN:HE21	1.74	0.52
2:L8:43:THR:HG21	2:L8:142:LEU:CD2	2.40	0.52
2:O8:148:THR:OG1	11:X8:202:CYC:HMB3	2.09	0.52
2:Q8:73:ASN:HD22	2:Q8:123:ASP:HB3	1.74	0.52
2:Y8:36:PHE:CG	2:Y8:145:ASP:HB2	2.44	0.52
3:E1:57:ARG:HH22	11:F1:201:CYC:CGD	2.21	0.52
2:J1:13:ASP:OD1	3:K1:92:TYR:OH	2.21	0.52
3:K1:52:VAL:HG11	3:K1:87:GLU:HG3	1.90	0.52
3:Z1:84:ARG:CZ	11:Z1:201:CYC:O2A	2.58	0.52
11:C2:202:CYC:CMA	11:C2:202:CYC:CBA	2.88	0.52
2:O2:73:ASN:OD1	2:O2:73:ASN:N	2.42	0.52
11:P2:202:CYC:CMA	11:P2:202:CYC:CBA	2.88	0.52
3:T2:43:ARG:O	3:T2:47:ASN:ND2	2.42	0.52
11:X2:202:CYC:NB	11:X2:202:CYC:CMA	2.72	0.52
11:Z2:203:CYC:NB	11:Z2:203:CYC:CMA	2.73	0.52
7:Z3:64:ASP:OD2	7:H7:69:GLY:C	2.52	0.52
7:q3:64:ASP:OD2	7:V7:69:GLY:C	2.52	0.52
7:w3:79:ALA:HB1	1:A4:219:LEU:HA	1.88	0.52
2:H4:84:CYS:CB	11:M4:201:CYC:CAC	2.86	0.52
3:K4:42:SER:HA	3:K4:45:THR:HG22	1.90	0.52
2:L4:43:THR:HG21	2:L4:142:LEU:CD2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L4:73:ASN:HD22	2:L4:123:ASP:HB3	1.74	0.52
11:L4:202:CYC:NC	11:L4:202:CYC:CMD	2.73	0.52
4:N4:47:TYR:CD2	11:T4:201:CYC:O2A	2.55	0.52
2:Q4:24:LEU:CD1	11:R4:201:CYC:CBB	2.88	0.52
2:U4:73:ASN:HD22	2:U4:123:ASP:HB3	1.74	0.52
11:V4:202:CYC:CGA	11:V4:202:CYC:CMA	2.85	0.52
2:Y4:73:ASN:HD22	2:Y4:123:ASP:HB3	1.74	0.52
1:A5:203:PHE:CD2	1:A5:203:PHE:C	2.86	0.52
2:B5:40:ALA:HB2	2:B5:146:ALA:HB1	1.90	0.52
2:F5:73:ASN:OD1	2:F5:73:ASN:N	2.28	0.52
2:L5:84:CYS:SG	11:L5:201:CYC:C2C	2.89	0.52
11:C6:202:CYC:CGA	11:C6:202:CYC:CMA	2.85	0.52
11:E6:202:CYC:CGA	11:E6:202:CYC:CMA	2.85	0.52
11:E6:202:CYC:NB	11:E6:202:CYC:CMA	2.73	0.52
11:I6:202:CYC:NB	11:I6:202:CYC:CMA	2.73	0.52
2:O6:73:ASN:OD1	2:O6:73:ASN:N	2.42	0.52
3:R6:36:LYS:CD	3:R6:152:ASP:O	2.56	0.52
11:V6:202:CYC:CMA	11:V6:202:CYC:CBA	2.88	0.52
8:I7:81:CYS:HG	11:I7:1001:CYC:HAC2	1.68	0.52
7:S7:150:GLY:O	7:S7:154:ASP:HB3	2.09	0.52
7:Z7:150:GLY:O	7:Z7:154:ASP:HB3	2.09	0.52
3:C8:138:ALA:O	3:C8:142:VAL:CG1	2.50	0.52
11:C8:201:CYC:NC	11:C8:201:CYC:CMD	2.73	0.52
2:D8:73:ASN:HD22	2:D8:123:ASP:HB3	1.74	0.52
2:F8:149:GLU:O	2:F8:153:TYR:HB2	2.10	0.52
11:L8:202:CYC:NB	11:L8:202:CYC:CMA	2.73	0.52
4:N8:114:ILE:HG12	11:P8:201:CYC:HBA2	1.90	0.52
2:O8:24:LEU:HD21	3:P8:42:SER:HB3	1.90	0.52
2:S8:19:LEU:CD2	3:T8:95:TYR:CD1	2.80	0.52
2:S8:148:THR:OG1	11:Z8:202:CYC:HBC1	2.08	0.52
2:U8:84:CYS:CB	11:U8:201:CYC:CAC	2.86	0.52
2:W8:73:ASN:HD22	2:W8:123:ASP:HB3	1.74	0.52
3:X8:82:CYS:HG	11:X8:201:CYC:CAC	1.99	0.52
11:X8:202:CYC:CMA	11:X8:202:CYC:CBA	2.88	0.52
4:N1:22:LEU:HD13	4:N1:34:VAL:HG21	1.91	0.52
2:Q1:40:ALA:HB2	2:Q1:146:ALA:HB1	1.90	0.52
2:S1:111:LEU:CD2	11:S1:201:CYC:CAB	2.78	0.52
2:U1:129:TYR:HB2	2:U1:161:LEU:HD21	1.91	0.52
1:A2:85:LEU:HD11	1:A2:111:VAL:HG21	1.92	0.52
1:A2:193:GLN:NE2	3:G2:71:GLY:CA	2.66	0.52
2:F2:22:THR:HG22	2:J2:4:PRO:HD3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:202:CYC:CMA	11:I2:202:CYC:CBA	2.88	0.52
3:R2:36:LYS:NZ	3:R2:36:LYS:CB	2.73	0.52
2:S2:73:ASN:OD1	2:S2:73:ASN:N	2.42	0.52
11:V2:202:CYC:CGA	11:V2:202:CYC:CMA	2.85	0.52
11:X2:202:CYC:CMD	11:X2:202:CYC:NC	2.73	0.52
11:Z2:203:CYC:CMA	11:Z2:203:CYC:CBA	2.88	0.52
5:03:288:ARG:HD2	8:M3:83:ARG:HH12	1.72	0.52
5:03:852:THR:OG1	8:x3:83:ARG:NH1	2.42	0.52
6:23:63:ASN:ND2	8:S3:13:ASP:OD2	2.42	0.52
6:33:3:MET:HE3	6:33:57:THR:HG21	1.91	0.52
7:X3:70:GLY:CA	7:J7:64:ASP:OD1	2.57	0.52
8:c3:67:ARG:CD	1:A6:214:ASP:N	2.70	0.52
7:u3:77:MET:HE2	1:A8:201:ARG:CB	2.40	0.52
11:F4:201:CYC:CMA	11:F4:201:CYC:CBA	2.88	0.52
2:L4:43:THR:HG23	2:L4:142:LEU:HD21	1.91	0.52
4:N4:114:ILE:HG12	11:P4:201:CYC:HBA2	1.90	0.52
2:O4:73:ASN:HD22	2:O4:123:ASP:HB3	1.74	0.52
11:X4:202:CYC:CMA	11:X4:202:CYC:CBA	2.88	0.52
3:V5:84:ARG:CZ	11:V5:201:CYC:O2A	2.57	0.52
3:X5:52:VAL:HG11	3:X5:87:GLU:HG3	1.90	0.52
1:A6:85:LEU:HD11	1:A6:111:VAL:HG21	1.92	0.52
11:P6:202:CYC:CGA	11:P6:202:CYC:CMA	2.85	0.52
8:K7:65:VAL:HA	8:K7:70:GLY:HA3	1.91	0.52
7:L7:150:GLY:O	7:L7:154:ASP:HB3	2.09	0.52
2:B8:73:ASN:HD22	2:B8:123:ASP:HB3	1.74	0.52
2:D8:84:CYS:CB	11:D8:201:CYC:CAC	2.86	0.52
2:F8:73:ASN:HD22	2:F8:123:ASP:HB3	1.74	0.52
11:K8:202:CYC:NB	11:K8:202:CYC:CMA	2.72	0.52
2:Q8:23:GLU:O	2:Q8:26:TYR:HB2	2.09	0.52
3:R8:67:ILE:CG1	2:S8:86:ARG:HH22	2.23	0.52
2:U8:150:THR:C	2:U8:153:TYR:HB2	2.35	0.52
11:X8:202:CYC:CGA	11:X8:202:CYC:CMA	2.85	0.52
11:Z8:202:CYC:NC	11:Z8:202:CYC:CMD	2.73	0.52
2:D1:129:TYR:HB2	2:D1:161:LEU:HD21	1.92	0.52
4:N1:248:THR:N	4:N1:249:PRO:HD2	2.24	0.52
2:B2:24:LEU:HB3	11:C2:202:CYC:CBB	2.23	0.52
2:J2:73:ASN:OD1	2:J2:73:ASN:N	2.42	0.52
11:K2:202:CYC:NB	11:K2:202:CYC:CMA	2.72	0.52
11:P2:202:CYC:CMD	11:P2:202:CYC:NC	2.73	0.52
5:13:521:THR:HG23	5:13:524:SER:HB3	1.91	0.52
5:13:787:TYR:HB3	5:13:791:LYS:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h3:105:ASP:HA	8:h3:109:LEU:HB2	1.90	0.52
7:w3:76:GLU:HB3	1:A5:203:PHE:HB3	1.92	0.52
2:D4:97:TYR:OH	3:E4:17:GLU:O	2.27	0.52
2:F4:149:GLU:O	2:F4:153:TYR:HB2	2.10	0.52
11:I4:202:CYC:CMA	11:I4:202:CYC:CBA	2.88	0.52
11:I4:203:CYC:O1D	2:J4:79:ARG:NH1	2.42	0.52
3:K4:114:ARG:NH2	3:K4:172:GLU:OE2	2.42	0.52
2:L4:79:ARG:NH1	11:L4:201:CYC:O1D	2.42	0.52
4:N4:41:GLN:NE2	4:N4:101:HIS:O	2.40	0.52
11:P4:202:CYC:NB	11:P4:202:CYC:CMA	2.73	0.52
2:S4:19:LEU:HD22	2:S4:19:LEU:N	2.25	0.52
3:X4:114:ARG:NH2	3:X4:172:GLU:OE2	2.42	0.52
2:Y4:40:ALA:HB2	2:Y4:146:ALA:HB2	1.90	0.52
2:B5:129:TYR:HB2	2:B5:161:LEU:HD21	1.92	0.52
3:M5:84:ARG:CZ	11:M5:201:CYC:O2A	2.57	0.52
2:Q5:24:LEU:HD13	11:R5:202:CYC:CBB	2.40	0.52
11:V5:202:CYC:CAC	2:W5:84:CYS:CA	2.74	0.52
3:C6:155:SER:O	3:C6:158:GLN:CB	2.54	0.52
11:G6:201:CYC:CMD	11:G6:201:CYC:NC	2.73	0.52
2:L6:28:TYR:OH	11:M6:202:CYC:NB	2.43	0.52
2:O6:28:TYR:CE2	11:P6:202:CYC:HMA3	2.41	0.52
3:P6:33:GLU:O	3:P6:36:LYS:HG3	2.09	0.52
7:C7:113:ARG:O	7:C7:117:LYS:HG3	2.09	0.52
7:J7:22:GLU:HA	7:J7:25:ARG:HB2	1.91	0.52
7:Q7:22:GLU:HA	7:Q7:25:ARG:HB2	1.91	0.52
7:S7:25:ARG:HH11	7:S7:25:ARG:CA	2.21	0.52
7:S7:94:TYR:OH	8:T7:17:LYS:O	2.27	0.52
7:V7:22:GLU:HA	7:V7:25:ARG:HB2	1.91	0.52
8:a7:154:ASP:O	8:a7:158:SER:OG	2.26	0.52
11:C8:201:CYC:CGA	11:C8:201:CYC:CMA	2.85	0.52
2:L8:79:ARG:NH1	11:L8:201:CYC:O1D	2.42	0.52
3:M8:112:GLY:O	3:M8:116:THR:OG1	2.26	0.52
2:S8:73:ASN:HD22	2:S8:123:ASP:HB3	1.74	0.52
2:U8:83:LYS:HZ2	11:U8:201:CYC:CGA	2.22	0.52
2:U8:140:HIS:ND1	2:U8:142:LEU:HG	2.25	0.52
11:A1:301:CYC:O2A	3:C1:84:ARG:CZ	2.58	0.52
2:B2:24:LEU:HB2	11:C2:202:CYC:HBB1	1.91	0.52
3:E2:151:GLY:CA	11:E2:202:CYC:CMD	2.85	0.52
11:I2:202:CYC:CGA	11:I2:202:CYC:CMA	2.85	0.52
11:R2:201:CYC:CMD	11:R2:201:CYC:NC	2.73	0.52
11:Z2:203:CYC:NC	11:Z2:203:CYC:CMD	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:03:523:VAL:HB	8:D7:6:THR:HG22	1.92	0.52
5:13:608:ARG:HA	5:13:611:ILE:HG22	1.92	0.52
8:r3:66:THR:CB	11:s3:1001:CYC:O1A	2.58	0.52
3:C4:112:GLY:O	3:C4:116:THR:OG1	2.26	0.52
2:D4:19:LEU:CD2	2:D4:19:LEU:N	2.73	0.52
11:E4:203:CYC:H2A	2:F4:83:LYS:HZ1	1.57	0.52
11:F4:201:CYC:HBC3	3:G4:142:VAL:HG22	1.82	0.52
11:L4:202:CYC:CGA	11:L4:202:CYC:CMA	2.85	0.52
2:O4:79:ARG:NH1	11:O4:201:CYC:O1D	2.42	0.52
11:P4:202:CYC:CMD	11:P4:202:CYC:NC	2.73	0.52
11:T4:202:CYC:CGA	11:T4:202:CYC:CMA	2.85	0.52
2:U4:79:ARG:NH1	11:U4:201:CYC:O1D	2.42	0.52
11:X4:202:CYC:CGA	11:X4:202:CYC:CMA	2.85	0.52
2:Y4:151:ASN:O	2:Y4:155:ASP:CB	2.45	0.52
3:Z4:37:ARG:NH1	3:Z4:37:ARG:CB	2.73	0.52
11:Z4:202:CYC:NC	11:Z4:202:CYC:CMD	2.73	0.52
4:N5:22:LEU:HD13	4:N5:34:VAL:HG21	1.91	0.52
3:X5:84:ARG:CZ	11:X5:201:CYC:O2A	2.58	0.52
11:C6:202:CYC:NB	11:C6:202:CYC:CMA	2.73	0.52
11:C6:202:CYC:CMA	11:C6:202:CYC:CBA	2.88	0.52
3:M6:43:ARG:O	3:M6:47:ASN:ND2	2.42	0.52
11:P6:202:CYC:NB	11:P6:202:CYC:CMA	2.73	0.52
3:T6:43:ARG:O	3:T6:47:ASN:ND2	2.42	0.52
7:Q7:95:GLY:HA3	7:Q7:104:ILE:HD11	1.92	0.52
3:E8:112:GLY:O	3:E8:116:THR:OG1	2.26	0.52
11:K8:202:CYC:CMD	11:K8:202:CYC:NC	2.73	0.52
2:L8:150:THR:HG22	2:L8:154:ILE:HD12	1.90	0.52
11:L8:202:CYC:CMA	11:L8:202:CYC:CBA	2.88	0.52
3:P8:42:SER:HA	3:P8:45:THR:HG22	1.90	0.52
2:Q8:24:LEU:CD1	11:R8:201:CYC:CBB	2.88	0.52
3:T8:142:VAL:CG2	11:T8:202:CYC:CBC	2.87	0.52
3:V8:150:SER:C	11:V8:202:CYC:HMD2	2.33	0.52
11:V8:202:CYC:CMD	11:V8:202:CYC:NC	2.73	0.52
2:W8:79:ARG:NH1	11:W8:201:CYC:O1D	2.42	0.52
1:A1:219:LEU:HD11	7:u3:75:GLU:HB3	1.92	0.52
2:H1:129:TYR:HB2	2:H1:161:LEU:HD21	1.91	0.52
2:J1:61:SER:CA	2:J8:61:SER:HA	2.39	0.52
3:M1:86:MET:HE3	11:M1:201:CYC:HBC1	1.89	0.52
2:O1:129:TYR:HB2	2:O1:161:LEU:HD21	1.92	0.52
3:T1:52:VAL:HG11	3:T1:87:GLU:HG3	1.90	0.52
3:V1:3:ASP:O	3:V1:7:ARG:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E2:202:CYC:NB	11:E2:202:CYC:CMA	2.73	0.52
2:L2:28:TYR:OH	11:M2:202:CYC:NB	2.43	0.52
11:M2:202:CYC:CMA	11:M2:202:CYC:CBA	2.88	0.52
4:N2:164:PHE:CD2	3:R2:116:THR:HG23	2.44	0.52
8:c3:105:ASP:HA	8:c3:109:LEU:HB2	1.90	0.52
3:C4:57:ARG:CZ	11:D4:201:CYC:O2D	2.57	0.52
3:E4:114:ARG:NH2	3:E4:172:GLU:OE2	2.42	0.52
11:E4:202:CYC:NC	11:E4:202:CYC:CMD	2.73	0.52
2:F4:73:ASN:HD22	2:F4:123:ASP:HB3	1.74	0.52
2:O4:83:LYS:HZ2	2:O4:86:ARG:NH1	2.07	0.52
2:Q4:23:GLU:O	2:Q4:26:TYR:HB2	2.09	0.52
11:T4:202:CYC:CMA	11:T4:202:CYC:CBA	2.88	0.52
2:U4:17:ARG:CB	2:U4:17:ARG:NH1	2.73	0.52
2:Y4:36:PHE:CG	2:Y4:145:ASP:HB2	2.44	0.52
11:D5:201:CYC:CAB	2:L5:149:GLU:OE2	2.39	0.52
3:I5:84:ARG:CZ	11:I5:201:CYC:O2A	2.58	0.52
2:J5:73:ASN:OD1	2:J5:73:ASN:N	2.28	0.52
2:O5:84:CYS:SG	11:O5:201:CYC:C2C	2.89	0.52
2:Q5:129:TYR:HB2	2:Q5:161:LEU:HD21	1.91	0.52
3:E6:149:THR:OG1	11:E6:202:CYC:HAD1	2.10	0.52
3:K6:57:ARG:HH22	11:L6:201:CYC:CGD	2.23	0.52
4:N6:205:SER:N	3:T6:111:ASN:O	2.30	0.52
4:N6:243:VAL:HG21	4:N6:275:ILE:HD13	1.90	0.52
11:X6:202:CYC:CMD	11:X6:202:CYC:NC	2.73	0.52
8:D7:65:VAL:HA	8:D7:70:GLY:HA3	1.91	0.52
8:I7:65:VAL:HA	8:I7:70:GLY:HA3	1.91	0.52
6:b7:6:ILE:HG22	6:b7:53:VAL:HG23	1.91	0.52
11:C8:201:CYC:NB	11:C8:201:CYC:CMA	2.73	0.52
2:D8:19:LEU:CD2	2:D8:19:LEU:H	2.23	0.52
3:E8:39:ASP:OD1	3:E8:42:SER:OG	2.19	0.52
3:G8:112:GLY:O	3:G8:116:THR:OG1	2.26	0.52
2:J8:150:THR:CG2	2:J8:154:ILE:HD11	2.39	0.52
3:K8:139:VAL:CA	3:K8:142:VAL:HG12	2.40	0.52
11:L8:202:CYC:NC	11:L8:202:CYC:CMD	2.73	0.52
2:O8:22:THR:HG22	2:W8:102:GLY:C	2.12	0.52
3:R8:112:GLY:O	3:R8:116:THR:OG1	2.26	0.52
2:B1:145:ASP:OD1	2:B1:145:ASP:N	2.43	0.52
2:L1:129:TYR:HB2	2:L1:161:LEU:HD21	1.92	0.52
2:Q1:84:CYS:CA	11:Q1:201:CYC:CAC	2.74	0.52
2:S1:129:TYR:HB2	2:S1:161:LEU:HD21	1.91	0.52
2:W1:40:ALA:HB2	2:W1:146:ALA:HB1	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T2:202:CYC:CMD	11:T2:202:CYC:NC	2.73	0.52
3:X2:37:ARG:HA	3:X2:156:LEU:HD11	1.92	0.52
5:03:681:ARG:NH1	5:03:684:GLU:OE1	2.43	0.52
5:03:761:ASN:HB3	5:03:763:GLU:HG3	1.92	0.52
7:G3:49:ARG:HH22	8:r3:140:LEU:HD13	1.73	0.52
7:Z3:25:ARG:CD	7:L7:25:ARG:NH2	2.70	0.52
9:g3:132:GLN:NE2	9:g3:161:THR:OG1	2.42	0.52
8:t3:105:ASP:HA	8:t3:109:LEU:HB2	1.90	0.52
7:w3:82:LEU:O	1:A4:218:PHE:CE1	2.63	0.52
2:B4:83:LYS:HZ2	11:G4:201:CYC:CGA	2.20	0.52
11:F4:201:CYC:CMD	11:F4:201:CYC:NC	2.73	0.52
2:J4:150:THR:CG2	2:J4:154:ILE:HD11	2.39	0.52
11:K4:202:CYC:CGA	11:K4:202:CYC:CMA	2.85	0.52
2:Q4:137:LYS:NZ	2:Q4:155:ASP:OD2	2.43	0.52
3:T4:142:VAL:CG2	11:T4:202:CYC:CBC	2.87	0.52
2:B5:145:ASP:N	2:B5:145:ASP:OD1	2.43	0.52
2:L5:129:TYR:HB2	2:L5:161:LEU:HD21	1.91	0.52
2:O5:129:TYR:HB2	2:O5:161:LEU:HD21	1.92	0.52
2:Q5:159:ASN:ND2	3:V5:46:ASN:O	2.30	0.52
1:A6:168:GLU:HA	3:G6:2:PHE:HE1	1.74	0.52
11:I6:202:CYC:CMA	11:I6:202:CYC:CBA	2.88	0.52
11:M6:202:CYC:NB	11:M6:202:CYC:CMA	2.73	0.52
11:M6:202:CYC:CMA	11:M6:202:CYC:CBA	2.88	0.52
3:R6:36:LYS:NZ	3:R6:36:LYS:CB	2.73	0.52
2:S6:152:ASN:ND2	11:Z6:202:CYC:CBC	2.73	0.52
2:W6:24:LEU:HB3	11:X6:202:CYC:CBB	2.40	0.52
7:H7:71:ASN:ND2	11:H7:1001:CYC:NC	2.42	0.52
8:M7:111:GLY:HA3	6:N7:50:ILE:HD11	1.90	0.52
2:D8:19:LEU:CD2	2:D8:19:LEU:N	2.73	0.52
11:E8:202:CYC:NC	11:E8:202:CYC:CMD	2.73	0.52
11:F8:201:CYC:CMD	11:F8:201:CYC:NC	2.73	0.52
11:K8:202:CYC:CMA	11:K8:202:CYC:CBA	2.88	0.52
11:P8:203:CYC:O1D	2:Q8:79:ARG:NH1	2.42	0.52
2:S8:84:CYS:CB	11:S8:201:CYC:CAC	2.86	0.52
2:U8:17:ARG:CB	2:U8:17:ARG:NH1	2.73	0.52
11:A1:301:CYC:HBC1	3:C1:86:MET:HE3	1.89	0.52
11:C2:202:CYC:CMD	11:C2:202:CYC:NC	2.73	0.52
3:E2:149:THR:OG1	11:E2:202:CYC:HAD1	2.10	0.52
11:G2:201:CYC:CMD	11:G2:201:CYC:NC	2.73	0.52
11:G2:201:CYC:NB	11:G2:201:CYC:CMA	2.73	0.52
2:W2:73:ASN:OD1	2:W2:73:ASN:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X2:202:CYC:CMA	11:X2:202:CYC:CBA	2.88	0.52
5:03:2:THR:N	9:Q3:163:GLU:OE2	2.43	0.52
7:G3:25:ARG:HG3	7:C7:25:ARG:NH1	2.25	0.52
8:l3:62:TYR:HE1	10:m3:80:GLN:HG3	1.75	0.52
7:q3:15:ALA:HA	8:r3:90:ARG:CZ	2.40	0.52
7:w3:70:GLY:N	7:O7:64:ASP:CG	2.66	0.52
2:B4:73:ASN:HD22	2:B4:123:ASP:HB3	1.74	0.52
3:C4:47:ASN:N	3:C4:47:ASN:OD1	2.42	0.52
11:E4:202:CYC:NB	11:E4:202:CYC:CMA	2.73	0.52
2:H4:18:PHE:CE1	3:I4:91:ARG:HB2	2.45	0.52
11:K4:202:CYC:CMD	11:K4:202:CYC:NC	2.73	0.52
2:O4:20:SER:OG	2:W4:104:THR:HG23	2.10	0.52
2:U4:140:HIS:ND1	2:U4:142:LEU:HG	2.25	0.52
3:G5:52:VAL:HG11	3:G5:87:GLU:HG3	1.90	0.52
2:L5:24:LEU:HD12	11:M5:202:CYC:CBB	2.40	0.52
1:A6:167:ARG:NH2	3:E6:120:LEU:O	2.43	0.52
11:K6:202:CYC:CMD	11:K6:202:CYC:NC	2.73	0.52
11:M6:202:CYC:CMD	11:M6:202:CYC:NC	2.73	0.52
3:P6:126:SER:OG	11:P6:201:CYC:HMC2	2.10	0.52
11:P6:202:CYC:CMA	11:P6:202:CYC:CBA	2.88	0.52
11:P6:202:CYC:CMB	2:W6:148:THR:OG1	2.56	0.52
11:R6:201:CYC:CMD	11:R6:201:CYC:NC	2.73	0.52
3:X6:43:ARG:O	3:X6:47:ASN:ND2	2.42	0.52
7:C7:22:GLU:HA	7:C7:25:ARG:HB2	1.91	0.52
7:H7:18:LEU:HD12	8:I7:97:LEU:HD13	1.91	0.52
7:J7:71:ASN:ND2	11:J7:1001:CYC:NC	2.42	0.52
7:O7:22:GLU:HA	7:O7:25:ARG:HB2	1.91	0.52
8:Y7:65:VAL:HA	8:Y7:70:GLY:HA3	1.91	0.52
1:A8:194:VAL:HG23	1:A8:196:TRP:CE3	2.18	0.52
2:B8:17:ARG:NH1	2:B8:17:ARG:CB	2.73	0.52
3:G8:114:ARG:NH2	3:G8:172:GLU:OE2	2.42	0.52
3:K8:42:SER:HA	3:K8:45:THR:HG22	1.90	0.52
3:K8:67:ILE:CD1	11:L8:201:CYC:O2A	2.47	0.52
11:T8:202:CYC:CMD	11:T8:202:CYC:NC	2.73	0.52
11:V8:202:CYC:NB	11:V8:202:CYC:CMA	2.73	0.52
2:W8:83:LYS:HZ2	11:W8:201:CYC:CGA	2.21	0.52
3:C1:3:ASP:O	3:C1:7:ARG:N	2.42	0.52
2:H1:84:CYS:CA	11:H1:201:CYC:CAC	2.74	0.52
3:V1:84:ARG:CZ	11:V1:201:CYC:O2A	2.57	0.52
1:A2:167:ARG:NH2	3:E2:120:LEU:O	2.43	0.52
2:F2:73:ASN:OD1	2:F2:73:ASN:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:M2:202:CYC:CMD	11:M2:202:CYC:NC	2.73	0.52
3:T2:150:SER:O	11:T2:202:CYC:HMD2	2.09	0.52
2:Y2:80:GLY:O	2:Y2:84:CYS:HB3	2.11	0.52
5:13:443:TYR:CE2	11:13:902:CYC:HMA1	2.44	0.52
5:13:837:LEU:CD1	6:b7:42:ARG:HD3	2.30	0.52
6:23:3:MET:HE3	6:23:57:THR:HG21	1.91	0.52
8:e3:66:THR:HB	11:f3:1001:CYC:O1A	2.09	0.52
7:o3:79:ALA:HA	1:A5:222:ALA:CB	2.00	0.52
8:p3:105:ASP:HA	8:p3:109:LEU:HB2	1.90	0.52
2:H4:73:ASN:HD22	2:H4:123:ASP:HB3	1.74	0.52
2:L4:17:ARG:NH1	2:L4:17:ARG:CB	2.73	0.52
2:Q4:73:ASN:HD22	2:Q4:123:ASP:HB3	1.74	0.52
3:R4:67:ILE:CD1	2:S4:86:ARG:HH22	2.23	0.52
3:R4:67:ILE:CG1	2:S4:86:ARG:HH22	2.23	0.52
3:V4:139:VAL:O	3:V4:142:VAL:CA	2.58	0.52
2:Y4:28:TYR:CE1	3:Z4:38:SER:OG	2.58	0.52
3:Z4:112:GLY:O	3:Z4:116:THR:OG1	2.26	0.52
2:D5:19:LEU:HB2	3:E5:45:THR:HG21	1.92	0.52
2:D5:73:ASN:OD1	2:D5:73:ASN:N	2.28	0.52
2:O5:84:CYS:CA	11:O5:201:CYC:CAC	2.74	0.52
11:G6:201:CYC:CMA	11:G6:201:CYC:CBA	2.88	0.52
11:I6:202:CYC:CMD	11:I6:202:CYC:NC	2.73	0.52
2:Q6:80:GLY:O	2:Q6:84:CYS:HB3	2.10	0.52
2:W6:24:LEU:CB	11:X6:202:CYC:CBB	2.88	0.52
7:H7:4:VAL:HB	8:I7:3:ASP:OD1	2.10	0.52
7:J7:150:GLY:O	7:J7:154:ASP:HB3	2.09	0.52
8:a7:65:VAL:HA	8:a7:70:GLY:HA3	1.91	0.52
3:E8:43:ARG:HH22	3:E8:146:ALA:HB3	1.75	0.52
11:I8:202:CYC:CMD	11:I8:202:CYC:NC	2.73	0.52
11:I8:203:CYC:CAC	2:J8:84:CYS:CB	2.86	0.52
3:M8:139:VAL:C	3:M8:142:VAL:HG13	2.31	0.52
3:G1:52:VAL:HG11	3:G1:87:GLU:HG3	1.90	0.51
2:L1:24:LEU:HD12	11:M1:202:CYC:CBB	2.40	0.51
1:A2:201:ARG:CZ	7:N3:52:LYS:NZ	2.73	0.51
11:A2:301:CYC:HMC2	3:G2:126:SER:OG	2.10	0.51
11:I2:202:CYC:CMD	11:I2:202:CYC:NC	2.73	0.51
3:K2:57:ARG:NH1	11:K2:203:CYC:CGA	2.52	0.51
2:L2:80:GLY:O	2:L2:84:CYS:HB3	2.11	0.51
4:N2:28:ARG:O	4:N2:28:ARG:NH2	2.38	0.51
4:N2:237:GLN:HA	4:N2:290:GLN:HB3	1.91	0.51
5:03:168:PRO:HB2	5:03:222:VAL:HG11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:03:608:ARG:HA	5:03:611:ILE:HG22	1.91	0.51
7:X3:90:ARG:NH2	8:c3:73:TYR:OH	2.40	0.51
7:o3:69:GLY:HA3	7:X7:63:PRO:CD	2.30	0.51
8:t3:62:TYR:OH	1:A4:203:PHE:HB3	2.09	0.51
2:B4:79:ARG:NH1	11:G4:201:CYC:O1D	2.42	0.51
3:C4:40:ALA:HB1	3:C4:156:LEU:CD1	2.26	0.51
3:C4:57:ARG:HH11	2:D4:72:ASN:ND2	2.08	0.51
2:D4:19:LEU:HD23	3:E4:95:TYR:CE1	2.37	0.51
11:I4:202:CYC:CGA	11:I4:202:CYC:CMA	2.85	0.51
11:K4:202:CYC:CMA	11:K4:202:CYC:CBA	2.88	0.51
11:L4:202:CYC:CBC	3:M4:142:VAL:HG22	2.40	0.51
2:O4:24:LEU:HD21	3:P4:42:SER:HB3	1.90	0.51
11:R4:201:CYC:NC	11:R4:201:CYC:CMD	2.73	0.51
11:V4:202:CYC:CMA	11:V4:202:CYC:CBA	2.87	0.51
3:E6:151:GLY:CA	11:E6:202:CYC:CMD	2.85	0.51
11:E6:202:CYC:CMD	11:E6:202:CYC:NC	2.73	0.51
11:E6:202:CYC:CMA	11:E6:202:CYC:CBA	2.87	0.51
3:G6:36:LYS:HD3	3:G6:152:ASP:O	2.08	0.51
2:H6:80:GLY:O	2:H6:84:CYS:HB3	2.10	0.51
11:N6:301:CYC:HMC2	3:R6:126:SER:OG	2.10	0.51
11:V6:202:CYC:NB	11:V6:202:CYC:CMA	2.73	0.51
3:X6:37:ARG:HA	3:X6:156:LEU:HD11	1.92	0.51
7:A7:95:GLY:HA3	7:A7:104:ILE:HD11	1.92	0.51
7:L7:95:GLY:HA3	7:L7:104:ILE:HD11	1.92	0.51
7:X7:95:GLY:HA3	7:X7:104:ILE:HD11	1.92	0.51
2:L8:17:ARG:NH1	2:L8:17:ARG:CB	2.73	0.51
2:L8:84:CYS:CB	11:L8:201:CYC:CAC	2.86	0.51
4:N8:229:SER:HB3	4:N8:238:VAL:HG11	1.92	0.51
2:O8:21:ASN:N	2:W8:152:ASN:HD21	2.06	0.51
3:P8:139:VAL:O	3:P8:142:VAL:HG13	2.06	0.51
2:U8:73:ASN:HD22	2:U8:123:ASP:HB3	1.74	0.51
11:X8:202:CYC:NC	11:X8:202:CYC:CMD	2.73	0.51
1:A1:38:SER:OG	1:A1:39:ASP:N	2.43	0.51
1:A1:112:LEU:O	1:A1:160:ARG:NH1	2.44	0.51
3:K1:88:ILE:HD13	4:N1:251:TYR:CZ	2.42	0.51
1:A2:64:GLN:O	1:A2:68:SER:HB3	2.10	0.51
3:E2:126:SER:OG	11:E2:201:CYC:HMC2	2.10	0.51
3:K2:126:SER:OG	11:K2:201:CYC:HMC2	2.10	0.51
3:M2:126:SER:OG	11:M2:201:CYC:HMC2	2.10	0.51
11:T2:202:CYC:CMA	11:T2:202:CYC:CBA	2.88	0.51
2:W2:24:LEU:CB	11:X2:202:CYC:CBB	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z2:126:SER:OG	11:Z2:202:CYC:HMC2	2.10	0.51
5:03:423:VAL:HG21	5:03:466:SER:HB2	1.92	0.51
5:03:457:ILE:HG13	8:H3:115:THR:HG23	1.91	0.51
5:13:144:ASN:O	5:13:148:SER:OG	2.28	0.51
7:d3:47:ARG:NH2	1:A6:208:ARG:NH2	2.57	0.51
8:p3:3:ASP:OD2	8:p3:3:ASP:N	2.37	0.51
2:B4:17:ARG:NH1	2:B4:17:ARG:CB	2.73	0.51
2:F4:149:GLU:O	2:F4:153:TYR:N	2.42	0.51
2:H4:79:ARG:NH1	11:M4:201:CYC:O1D	2.42	0.51
11:I4:202:CYC:CMD	11:I4:202:CYC:NC	2.73	0.51
2:J4:61:SER:HA	2:J5:61:SER:HA	1.90	0.51
4:N4:229:SER:HB3	4:N4:238:VAL:HG11	1.92	0.51
11:R4:201:CYC:CMA	11:R4:201:CYC:CBA	2.88	0.51
3:V4:143:MET:SD	3:V4:143:MET:C	2.94	0.51
11:V4:202:CYC:CMD	11:V4:202:CYC:NC	2.73	0.51
11:X4:202:CYC:NB	11:X4:202:CYC:CMA	2.72	0.51
11:X4:202:CYC:NC	11:X4:202:CYC:CMD	2.73	0.51
2:F5:111:LEU:CD2	11:F5:201:CYC:CAB	2.78	0.51
2:W5:129:TYR:HB2	2:W5:161:LEU:HD21	1.92	0.51
2:L6:80:GLY:O	2:L6:84:CYS:HB3	2.11	0.51
3:P6:57:ARG:NH2	2:Q6:72:ASN:CG	2.68	0.51
3:R6:36:LYS:C	3:R6:156:LEU:HD11	2.35	0.51
3:X6:126:SER:OG	11:X6:201:CYC:HMC2	2.10	0.51
11:X6:202:CYC:CMA	11:X6:202:CYC:CBA	2.88	0.51
8:I7:91:TYR:CE2	11:I7:1001:CYC:CBB	2.90	0.51
7:Q7:18:LEU:HD12	8:R7:97:LEU:HD13	1.92	0.51
1:A8:54:PHE:HE1	1:A8:90:PHE:HB2	1.75	0.51
1:A8:162:ARG:NH2	1:A8:171:GLU:O	2.43	0.51
3:C8:37:ARG:HA	3:C8:156:LEU:HD21	1.91	0.51
11:C8:201:CYC:CMA	11:C8:201:CYC:CBA	2.88	0.51
2:D8:26:TYR:OH	2:L8:4:PRO:CA	2.58	0.51
2:D8:97:TYR:OH	3:E8:17:GLU:O	2.27	0.51
2:D8:150:THR:CG2	2:D8:154:ILE:HD11	2.40	0.51
2:F8:149:GLU:O	2:F8:153:TYR:N	2.42	0.51
11:I8:202:CYC:CMA	11:I8:202:CYC:CBA	2.88	0.51
2:O8:72:ASN:HD22	3:T8:57:ARG:NH2	2.08	0.51
2:O8:73:ASN:HD22	2:O8:123:ASP:HB3	1.74	0.51
11:P8:202:CYC:CMD	11:P8:202:CYC:NC	2.73	0.51
2:S8:97:TYR:HB3	3:T8:9:VAL:HG13	1.92	0.51
11:T8:202:CYC:CMA	11:T8:202:CYC:CBA	2.88	0.51
3:V8:139:VAL:O	3:V8:142:VAL:CA	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W8:149:GLU:CD	2:W8:153:TYR:HE2	2.19	0.51
3:Z8:37:ARG:NH1	3:Z8:37:ARG:CB	2.73	0.51
2:J1:129:TYR:HB2	2:J1:161:LEU:HD21	1.91	0.51
3:I2:146:ALA:O	3:I2:147:GLY:C	2.51	0.51
11:K2:202:CYC:CMD	11:K2:202:CYC:NC	2.73	0.51
4:N2:205:SER:N	3:T2:111:ASN:O	2.30	0.51
2:O2:28:TYR:CE2	11:P2:202:CYC:HMA3	2.41	0.51
11:R2:201:CYC:CMA	11:R2:201:CYC:CBA	2.88	0.51
11:V2:202:CYC:CMA	11:V2:202:CYC:CBA	2.88	0.51
2:W2:80:GLY:O	2:W2:84:CYS:HB3	2.11	0.51
5:03:763:GLU:O	6:U7:29:LYS:HA	2.10	0.51
7:o3:76:GLU:HG3	1:A5:219:LEU:HD13	1.91	0.51
8:v3:62:TYR:CD1	1:A5:203:PHE:O	2.63	0.51
2:D4:8:ALA:HB1	2:D4:23:GLU:CG	2.34	0.51
2:D4:26:TYR:OH	2:L4:4:PRO:CA	2.58	0.51
2:D4:150:THR:CG2	2:D4:154:ILE:HD11	2.40	0.51
2:O4:137:LYS:HB3	2:O4:154:ILE:HD13	1.93	0.51
11:R4:201:CYC:NB	11:R4:201:CYC:CMA	2.72	0.51
11:T4:202:CYC:CMD	11:T4:202:CYC:NC	2.73	0.51
2:U4:18:PHE:CE1	3:V4:91:ARG:HB2	2.44	0.51
2:B5:2:LYS:H	2:B5:105:GLY:HA3	1.75	0.51
11:N5:301:CYC:HBC1	3:T5:86:MET:HE3	1.89	0.51
3:R5:72:ASN:HD21	3:R5:122:VAL:HG22	1.76	0.51
3:X5:3:ASP:O	3:X5:7:ARG:N	2.42	0.51
2:B6:73:ASN:OD1	2:B6:73:ASN:N	2.42	0.51
2:D6:80:GLY:O	2:D6:84:CYS:HB3	2.11	0.51
3:I6:126:SER:OG	11:I6:201:CYC:HMC2	2.10	0.51
3:K6:126:SER:OG	11:K6:201:CYC:HMC2	2.10	0.51
4:N6:241:VAL:HG22	4:N6:285:ILE:HG12	1.92	0.51
7:E7:95:GLY:HA3	7:E7:104:ILE:HD11	1.92	0.51
8:I7:154:ASP:O	8:I7:158:SER:OG	2.26	0.51
8:M7:91:TYR:CE2	11:M7:1001:CYC:CBB	2.90	0.51
7:S7:95:GLY:HA3	7:S7:104:ILE:HD11	1.92	0.51
7:X7:150:GLY:O	7:X7:154:ASP:HB3	2.09	0.51
2:D8:25:GLN:HE21	2:L8:33:GLN:CG	2.00	0.51
11:F8:201:CYC:CMA	11:F8:201:CYC:CBA	2.88	0.51
11:R8:201:CYC:CMA	11:R8:201:CYC:CBA	2.88	0.51
11:Z8:202:CYC:NB	11:Z8:202:CYC:CMA	2.72	0.51
2:F1:129:TYR:HB2	2:F1:161:LEU:HD21	1.91	0.51
3:P1:72:ASN:HD21	3:P1:122:VAL:HG22	1.76	0.51
2:U1:28:TYR:CZ	11:U1:202:CYC:OB	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:39:ASP:O	3:C2:40:ALA:C	2.54	0.51
11:R2:201:CYC:NB	11:R2:201:CYC:CMA	2.73	0.51
2:W2:24:LEU:HB3	11:X2:202:CYC:CBB	2.40	0.51
5:03:164:VAL:HG11	8:M3:27:LEU:HD13	1.91	0.51
8:r3:66:THR:OG1	11:s3:1001:CYC:O1A	2.25	0.51
7:s3:124:ASP:OD1	7:s3:124:ASP:N	2.32	0.51
2:F4:36:PHE:HZ	2:F4:149:GLU:CD	2.16	0.51
11:Z4:202:CYC:CMA	11:Z4:202:CYC:CBA	2.88	0.51
2:F5:25:GLN:HG2	2:J5:33:GLN:HB2	1.93	0.51
3:P5:84:ARG:CZ	11:P5:201:CYC:O2A	2.57	0.51
2:S5:24:LEU:HD12	11:T5:201:CYC:HBB1	1.92	0.51
3:Z5:3:ASP:O	3:Z5:7:ARG:N	2.42	0.51
3:Z5:72:ASN:HD21	3:Z5:122:VAL:HG22	1.76	0.51
3:I6:146:ALA:O	3:I6:147:GLY:C	2.51	0.51
3:P6:106:ASN:CA	3:P6:110:LEU:HD12	2.38	0.51
11:T6:201:CYC:CMD	11:T6:201:CYC:NC	2.73	0.51
2:U6:80:GLY:O	2:U6:84:CYS:HB3	2.11	0.51
3:X6:36:LYS:C	3:X6:156:LEU:HD11	2.35	0.51
3:Z6:126:SER:OG	11:Z6:201:CYC:HMC2	2.10	0.51
8:D7:7:SER:O	8:D7:11:SER:OG	2.29	0.51
7:O7:150:GLY:O	7:O7:154:ASP:HB3	2.09	0.51
8:W7:65:VAL:HA	8:W7:70:GLY:HA3	1.91	0.51
3:C8:112:GLY:O	3:C8:116:THR:OG1	2.26	0.51
3:I8:147:GLY:C	3:I8:148:VAL:HG13	2.34	0.51
11:L8:202:CYC:CBC	3:M8:142:VAL:HG22	2.40	0.51
11:Z8:202:CYC:CMA	11:Z8:202:CYC:CBA	2.88	0.51
2:B1:2:LYS:H	2:B1:105:GLY:HA3	1.75	0.51
2:F1:9:VAL:HG13	3:G1:95:TYR:CD1	2.46	0.51
3:I2:74:TYR:OH	2:J2:93:ARG:NH1	2.44	0.51
3:K2:37:ARG:HH11	3:K2:37:ARG:HG2	1.76	0.51
11:X2:202:CYC:CGA	11:X2:202:CYC:CMA	2.85	0.51
5:03:608:ARG:O	5:03:611:ILE:HG22	2.11	0.51
5:13:721:THR:OG1	5:13:762:ARG:NH1	2.43	0.51
7:o3:73:TYR:N	7:o3:77:MET:CB	2.73	0.51
7:q3:52:LYS:HE2	1:A8:221:MET:HG3	1.92	0.51
7:u3:76:GLU:HG3	1:A8:203:PHE:HE2	1.67	0.51
2:D4:19:LEU:CD2	2:D4:19:LEU:H	2.23	0.51
3:E4:43:ARG:HH22	3:E4:146:ALA:HB3	1.75	0.51
3:G4:47:ASN:ND2	3:G4:141:ILE:HD13	2.26	0.51
11:L4:202:CYC:CMA	11:L4:202:CYC:CBA	2.88	0.51
2:S4:97:TYR:HB3	3:T4:9:VAL:HG13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z4:37:ARG:NH1	3:Z4:37:ARG:HB2	2.26	0.51
1:A5:166:SER:HB3	2:F5:110:TYR:HE1	1.75	0.51
2:F5:9:VAL:HG13	3:G5:95:TYR:CD1	2.46	0.51
3:G5:72:ASN:HD21	3:G5:122:VAL:HG22	1.76	0.51
3:K5:86:MET:HE3	11:K5:201:CYC:HBC1	1.89	0.51
2:Q5:73:ASN:OD1	2:Q5:73:ASN:N	2.28	0.51
3:C6:35:THR:HG22	3:C6:36:LYS:HE3	1.93	0.51
11:K6:202:CYC:CMA	11:K6:202:CYC:CBA	2.88	0.51
2:S6:80:GLY:O	2:S6:84:CYS:HB3	2.11	0.51
11:T6:201:CYC:CMA	11:T6:201:CYC:CBA	2.88	0.51
7:H7:150:GLY:O	7:H7:154:ASP:HB3	2.09	0.51
7:O7:95:GLY:HA3	7:O7:104:ILE:HD11	1.92	0.51
8:Y7:91:TYR:CE2	11:Y7:1001:CYC:CBB	2.90	0.51
3:E8:149:THR:O	11:E8:202:CYC:HMD2	2.10	0.51
3:G8:47:ASN:ND2	3:G8:141:ILE:HD13	2.26	0.51
11:K8:202:CYC:CMD	11:K8:202:CYC:HC	2.24	0.51
11:P8:203:CYC:CAC	2:Q8:84:CYS:CB	2.86	0.51
3:T8:112:GLY:O	3:T8:116:THR:OG1	2.26	0.51
11:A1:302:CYC:O2A	3:E1:84:ARG:CZ	2.57	0.51
2:F1:25:GLN:HG2	2:J1:33:GLN:HB2	1.93	0.51
3:T1:72:ASN:HD21	3:T1:122:VAL:HG22	1.76	0.51
3:X1:79:MET:HE2	11:X1:203:CYC:HAA1	1.93	0.51
3:C2:126:SER:OG	11:C2:201:CYC:HMC2	2.10	0.51
3:K2:151:GLY:CA	11:K2:202:CYC:HMD1	2.41	0.51
11:K2:202:CYC:CMA	11:K2:202:CYC:CBA	2.88	0.51
2:O2:80:GLY:O	2:O2:84:CYS:HB3	2.11	0.51
3:X2:36:LYS:C	3:X2:156:LEU:HD11	2.35	0.51
10:V3:39:ILE:HD11	10:V3:149:ALA:HB2	1.93	0.51
7:u3:3:ILE:HD11	7:O7:25:ARG:CZ	2.35	0.51
7:w3:117:LYS:CD	7:O7:113:ARG:NH1	2.74	0.51
1:A4:203:PHE:CD2	1:A4:203:PHE:N	2.73	0.51
11:E4:202:CYC:HBD1	11:E4:202:CYC:CHA	2.29	0.51
11:E4:203:CYC:O1D	2:F4:79:ARG:NH1	2.42	0.51
3:M4:39:ASP:OD1	3:M4:42:SER:OG	2.19	0.51
3:M4:139:VAL:C	3:M4:142:VAL:HG13	2.31	0.51
4:N4:83:GLU:HA	4:N4:87:TYR:CD2	2.46	0.51
2:W4:149:GLU:CD	2:W4:153:TYR:HE2	2.19	0.51
3:C6:126:SER:OG	11:C6:201:CYC:HMC2	2.10	0.51
2:F6:28:TYR:HD2	2:J6:32:ARG:NE	2.08	0.51
4:N6:229:SER:OG	4:N6:234:ALA:O	2.27	0.51
2:O6:80:GLY:O	2:O6:84:CYS:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X6:40:ALA:HB2	11:X6:202:CYC:HAC1	1.89	0.51
11:Z6:202:CYC:NB	11:Z6:202:CYC:CMA	2.73	0.51
7:H7:95:GLY:HA3	7:H7:104:ILE:HD11	1.92	0.51
2:F8:28:TYR:CD2	2:J8:32:ARG:CZ	2.93	0.51
4:N8:83:GLU:HA	4:N8:87:TYR:CD2	2.46	0.51
2:O8:113:ALA:HB3	3:T8:77:ARG:HB3	1.93	0.51
11:P8:202:CYC:CMA	11:P8:202:CYC:CBA	2.88	0.51
2:Q8:137:LYS:NZ	2:Q8:155:ASP:OD2	2.43	0.51
11:T8:202:CYC:NB	11:T8:202:CYC:CMA	2.72	0.51
2:Y8:40:ALA:CB	2:Y8:146:ALA:HB1	2.41	0.51
3:I1:72:ASN:HD21	3:I1:122:VAL:HG22	1.76	0.51
2:F2:28:TYR:HD2	2:J2:32:ARG:NE	2.08	0.51
2:S2:152:ASN:ND2	11:Z2:203:CYC:CBC	2.73	0.51
3:X2:150:SER:O	11:X2:202:CYC:HAD1	2.11	0.51
5:13:15:GLN:NE2	5:13:17:TYR:O	2.37	0.51
5:13:168:PRO:HB2	5:13:222:VAL:HG11	1.93	0.51
5:13:443:TYR:O	8:Y3:118:SER:OG	2.26	0.51
5:13:717:LYS:HD3	6:b7:19:GLN:OE1	2.10	0.51
7:d3:5:THR:OG1	8:e3:3:ASP:OD2	2.29	0.51
7:o3:76:GLU:CG	1:A4:204:ARG:HH22	2.14	0.51
11:C4:201:CYC:CMA	11:C4:201:CYC:CBA	2.88	0.51
2:O4:24:LEU:CD1	11:P4:202:CYC:HBB3	2.40	0.51
11:P4:202:CYC:CGA	11:P4:202:CYC:CMA	2.85	0.51
3:T4:139:VAL:HA	3:T4:142:VAL:HG11	1.88	0.51
4:a4:242:GLU:HG3	4:a4:260:VAL:HG22	1.90	0.51
2:S5:84:CYS:SG	11:S5:201:CYC:C2C	2.89	0.51
2:S5:129:TYR:HB2	2:S5:161:LEU:HD21	1.91	0.51
3:I6:74:TYR:OH	2:J6:93:ARG:NH1	2.44	0.51
11:V6:202:CYC:CGA	11:V6:202:CYC:CMA	2.85	0.51
8:M7:65:VAL:HA	8:M7:70:GLY:HA3	1.91	0.51
8:Y7:154:ASP:O	8:Y7:158:SER:OG	2.26	0.51
8:a7:7:SER:O	8:a7:11:SER:OG	2.29	0.51
2:F8:27:LEU:HD13	3:G8:38:SER:HB3	1.93	0.51
3:I8:65:GLN:HE21	3:P8:65:GLN:HE21	1.58	0.51
3:I8:109:CYS:SG	11:I8:201:CYC:CAB	2.99	0.51
2:J8:24:LEU:CD1	3:K8:39:ASP:CA	2.89	0.51
3:K8:153:CYS:HB2	11:K8:202:CYC:CAC	2.40	0.51
3:R8:67:ILE:HB	2:S8:86:ARG:HH22	1.75	0.51
11:R8:201:CYC:NB	11:R8:201:CYC:CMA	2.72	0.51
11:R8:201:CYC:NC	11:R8:201:CYC:CMD	2.73	0.51
2:Y8:79:ARG:NH1	11:Y8:201:CYC:O1D	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q1:159:ASN:ND2	3:V1:46:ASN:O	2.30	0.51
3:I2:126:SER:OG	11:I2:201:CYC:HMC2	2.10	0.51
2:J2:80:GLY:O	2:J2:84:CYS:HB3	2.11	0.51
11:N2:302:CYC:HMC2	3:T2:126:SER:OG	2.10	0.51
3:P2:126:SER:OG	11:P2:201:CYC:HMC2	2.10	0.51
2:S2:80:GLY:O	2:S2:84:CYS:HB3	2.11	0.51
2:U2:80:GLY:O	2:U2:84:CYS:HB3	2.11	0.51
11:Z2:203:CYC:CMD	11:Z2:203:CYC:HC	2.24	0.51
5:03:776:SER:OG	5:03:777:GLU:N	2.43	0.51
8:Y3:39:ARG:NH2	7:H7:147:ALA:HB1	2.26	0.51
1:A4:203:PHE:CD1	1:A5:215:PRO:HB2	2.46	0.51
2:D4:18:PHE:CE1	3:E4:91:ARG:CB	2.94	0.51
2:D4:73:ASN:HD22	2:D4:123:ASP:HB3	1.74	0.51
2:F4:19:LEU:HD12	2:F4:23:GLU:OE2	2.11	0.51
3:K4:139:VAL:CA	3:K4:142:VAL:HG12	2.40	0.51
4:N4:205:SER:OG	4:N4:206:GLY:N	2.44	0.51
11:N4:301:CYC:CAB	3:R4:109:CYS:SG	2.99	0.51
11:O4:201:CYC:H2A	3:T4:67:ILE:CD1	2.19	0.51
2:S4:79:ARG:NH1	11:S4:201:CYC:O1D	2.42	0.51
2:S4:86:ARG:NH1	11:S4:201:CYC:HBA1	2.20	0.51
11:T4:202:CYC:NB	11:T4:202:CYC:CMA	2.72	0.51
3:V4:109:CYS:SG	11:V4:201:CYC:CAB	2.99	0.51
3:V4:154:SER:O	3:V4:158:GLN:HG3	2.11	0.51
3:X4:112:GLY:O	3:X4:116:THR:OG1	2.26	0.51
1:A5:112:LEU:O	1:A5:160:ARG:NH1	2.44	0.51
2:B5:58:ALA:O	2:B5:62:LYS:HB2	2.11	0.51
3:C5:72:ASN:HD21	3:C5:122:VAL:HG22	1.76	0.51
2:D5:129:TYR:HB2	2:D5:161:LEU:HD21	1.91	0.51
2:F5:58:ALA:O	2:F5:62:LYS:HB2	2.11	0.51
2:H5:129:TYR:HB2	2:H5:161:LEU:HD21	1.91	0.51
3:K5:3:ASP:O	3:K5:7:ARG:N	2.42	0.51
3:V5:3:ASP:O	3:V5:7:ARG:N	2.42	0.51
11:K6:202:CYC:CMD	11:K6:202:CYC:HC	2.24	0.51
2:Q6:73:ASN:OD1	2:Q6:73:ASN:N	2.42	0.51
7:J7:95:GLY:HA3	7:J7:104:ILE:HD11	1.92	0.51
8:R7:7:SER:O	8:R7:11:SER:OG	2.29	0.51
11:A8:301:CYC:CAB	3:C8:109:CYS:SG	2.99	0.51
3:E8:109:CYS:SG	11:E8:201:CYC:CAB	2.99	0.51
11:I8:202:CYC:NB	11:I8:202:CYC:CMA	2.73	0.51
3:M8:40:ALA:CB	3:M8:156:LEU:HD13	2.41	0.51
2:O8:20:SER:OG	2:W8:104:THR:HG23	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U8:142:LEU:HB2	2:U8:147:ALA:HA	1.93	0.51
3:V8:51:ILE:CD1	3:V8:141:ILE:HD12	2.27	0.51
3:X8:37:ARG:HH11	3:X8:100:GLY:HA2	1.72	0.51
2:Y8:149:GLU:C	2:Y8:153:TYR:HB2	2.33	0.51
11:Z8:202:CYC:CGA	11:Z8:202:CYC:CMA	2.85	0.51
1:A1:203:PHE:CD2	1:A8:215:PRO:HB2	2.45	0.51
1:A1:226:GLN:HE21	7:u3:60:GLN:HG2	1.75	0.51
2:D1:58:ALA:O	2:D1:62:LYS:HB2	2.11	0.51
2:L1:58:ALA:O	2:L1:62:LYS:HB2	2.11	0.51
2:Q1:24:LEU:HD13	11:R1:202:CYC:CBB	2.40	0.51
2:Q1:129:TYR:HB2	2:Q1:161:LEU:HD21	1.92	0.51
3:V1:86:MET:HE3	11:V1:201:CYC:HBC1	1.89	0.51
2:Y1:58:ALA:O	2:Y1:62:LYS:HB2	2.11	0.51
1:A2:213:GLY:HA3	8:H3:67:ARG:CD	2.40	0.51
3:G2:151:GLY:N	11:G2:201:CYC:OC	2.32	0.51
2:O2:84:CYS:CA	11:T2:201:CYC:HAC1	2.31	0.51
2:Q2:84:CYS:CA	11:Q2:201:CYC:HAC1	2.31	0.51
3:R2:151:GLY:CA	11:R2:201:CYC:HMD1	2.23	0.51
3:R2:153:CYS:HG	3:R2:156:LEU:HB2	1.73	0.51
11:T2:202:CYC:CMD	11:T2:202:CYC:HC	2.24	0.51
5:03:230:GLN:OE1	10:V3:117:ASN:HA	2.11	0.51
7:o3:117:LYS:HZ2	7:X7:113:ARG:CZ	2.21	0.51
2:B4:84:CYS:CB	11:G4:201:CYC:CAC	2.86	0.51
3:C4:51:ILE:CD1	3:C4:141:ILE:HD12	2.41	0.51
3:E4:149:THR:O	11:E4:202:CYC:HMD2	2.10	0.51
2:J4:6:THR:OG1	3:K4:1:MET:SD	2.64	0.51
11:K4:202:CYC:CMD	11:K4:202:CYC:HC	2.24	0.51
2:L4:83:LYS:HZ2	11:L4:201:CYC:CGA	2.22	0.51
11:P4:202:CYC:CMA	11:P4:202:CYC:CBA	2.88	0.51
2:Q4:13:ASP:OD1	3:R4:108:ARG:NH1	2.44	0.51
2:Q4:21:ASN:ND2	2:U4:153:TYR:CD1	2.79	0.51
2:W4:79:ARG:NH1	11:W4:201:CYC:O1D	2.42	0.51
2:W4:150:THR:CA	2:W4:153:TYR:HB2	2.41	0.51
3:M5:72:ASN:HD21	3:M5:122:VAL:HG22	1.76	0.51
3:P5:86:MET:HE3	11:P5:201:CYC:HBC1	1.89	0.51
3:T5:72:ASN:HD21	3:T5:122:VAL:HG22	1.76	0.51
2:U5:129:TYR:HB2	2:U5:161:LEU:HD21	1.91	0.51
2:Y5:58:ALA:O	2:Y5:62:LYS:HB2	2.11	0.51
3:K6:37:ARG:HH11	3:K6:37:ARG:HG2	1.76	0.51
4:N6:206:GLY:N	3:T6:111:ASN:HA	2.22	0.51
11:R6:201:CYC:CMA	11:R6:201:CYC:CBA	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V6:126:SER:OG	11:V6:201:CYC:HMC2	2.10	0.51
2:Y6:80:GLY:O	2:Y6:84:CYS:HB3	2.10	0.51
11:Z6:202:CYC:CMD	11:Z6:202:CYC:HC	2.24	0.51
7:C7:95:GLY:HA3	7:C7:104:ILE:HD11	1.92	0.51
8:W7:66:THR:HG22	11:X7:1001:CYC:CGA	2.26	0.51
3:K8:109:CYS:SG	11:K8:201:CYC:CAB	2.99	0.51
11:N8:301:CYC:CAB	3:R8:109:CYS:SG	2.99	0.51
2:O8:24:LEU:CD1	11:P8:202:CYC:HBB3	2.40	0.51
2:Q8:152:ASN:HD21	2:U8:21:ASN:CA	2.24	0.51
3:R8:67:ILE:CD1	2:S8:86:ARG:HH22	2.23	0.51
2:S8:86:ARG:NH1	11:S8:201:CYC:HBA1	2.20	0.51
3:V8:143:MET:SD	3:V8:143:MET:C	2.94	0.51
3:Z8:37:ARG:NH1	3:Z8:37:ARG:HB2	2.26	0.51
1:A1:166:SER:HB3	2:F1:110:TYR:HE1	1.75	0.51
3:E1:72:ASN:HD21	3:E1:122:VAL:HG22	1.76	0.51
3:G1:72:ASN:HD21	3:G1:122:VAL:HG22	1.76	0.51
2:J1:111:LEU:CD2	11:J1:201:CYC:CAB	2.78	0.51
4:N1:13:ALA:HB1	3:T1:1:MET:HE1	1.93	0.51
2:S1:24:LEU:HD12	11:T1:201:CYC:HBB1	1.92	0.51
2:B2:80:GLY:O	2:B2:84:CYS:HB3	2.10	0.51
11:K2:202:CYC:CMD	11:K2:202:CYC:HC	2.24	0.51
3:R2:37:ARG:CA	3:R2:156:LEU:HD21	2.41	0.51
3:V2:84:ARG:HD2	3:V2:84:ARG:C	2.36	0.51
5:03:239:ARG:NH2	5:03:352:SER:OG	2.44	0.51
5:13:749:ASP:OD1	5:13:749:ASP:N	2.42	0.51
5:13:761:ASN:HB3	5:13:763:GLU:HG3	1.92	0.51
7:X3:113:ARG:CD	7:J7:117:LYS:NZ	2.74	0.51
7:Z3:25:ARG:CB	7:L7:25:ARG:NE	2.74	0.51
1:A4:54:PHE:HE1	1:A4:90:PHE:HB2	1.75	0.51
1:A4:215:PRO:C	1:A5:203:PHE:CE1	2.88	0.51
11:A4:301:CYC:CAB	3:C4:109:CYS:SG	2.99	0.51
2:H4:5:LEU:HD12	3:I4:3:ASP:OD1	2.11	0.51
2:L4:18:PHE:CD2	3:M4:45:THR:OG1	2.64	0.51
3:M4:169:LYS:HE2	3:T4:7:ARG:HH11	1.76	0.51
2:O4:113:ALA:HB3	3:T4:77:ARG:HB3	1.93	0.51
2:Q4:152:ASN:HD21	2:U4:21:ASN:CA	2.24	0.51
3:R4:67:ILE:HB	2:S4:86:ARG:HH22	1.75	0.51
2:S4:140:HIS:CE1	2:S4:142:LEU:CD1	2.94	0.51
2:U4:17:ARG:HH11	2:U4:17:ARG:HB3	1.76	0.51
3:X4:109:CYS:SG	11:X4:201:CYC:CAB	2.99	0.51
4:N5:13:ALA:HB1	3:T5:1:MET:HE1	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:108:ILE:HG23	1:A6:112:LEU:HD12	1.93	0.51
1:A6:191:PHE:HB3	3:G6:121:GLY:HA3	1.93	0.51
2:B6:80:GLY:O	2:B6:84:CYS:HB3	2.11	0.51
11:E6:202:CYC:CMD	11:E6:202:CYC:HC	2.24	0.51
11:G6:201:CYC:CMD	11:G6:201:CYC:HC	2.24	0.51
11:M6:202:CYC:CMD	11:M6:202:CYC:HC	2.24	0.51
11:N6:302:CYC:HMC2	3:T6:126:SER:OG	2.10	0.51
8:P7:7:SER:O	8:P7:11:SER:OG	2.29	0.51
8:P7:154:ASP:O	8:P7:158:SER:OG	2.26	0.51
8:T7:7:SER:O	8:T7:11:SER:OG	2.29	0.51
2:D8:18:PHE:CE1	3:E8:91:ARG:CB	2.94	0.51
3:K8:79:MET:HG3	2:L8:118:ILE:HD11	1.93	0.51
2:L8:18:PHE:CD2	3:M8:45:THR:OG1	2.64	0.51
2:S8:8:ALA:HB1	2:S8:23:GLU:HG3	1.93	0.51
2:S8:148:THR:OG1	11:Z8:202:CYC:CBC	2.59	0.51
2:J1:58:ALA:O	2:J1:62:LYS:HB2	2.11	0.50
3:K1:3:ASP:O	3:K1:7:ARG:N	2.42	0.50
2:Q1:84:CYS:SG	11:Q1:201:CYC:C2C	2.89	0.50
1:A2:191:PHE:HB3	3:G2:121:GLY:HA3	1.93	0.50
2:H2:80:GLY:O	2:H2:84:CYS:HB3	2.10	0.50
11:I2:202:CYC:NB	11:I2:202:CYC:CMA	2.73	0.50
11:M2:202:CYC:CMD	11:M2:202:CYC:HC	2.24	0.50
11:P2:202:CYC:CMD	11:P2:202:CYC:HC	2.24	0.50
2:U2:6:THR:HG23	3:V2:1:MET:SD	2.51	0.50
5:03:443:TYR:CE2	5:03:611:ILE:CG2	2.94	0.50
5:13:681:ARG:NH1	5:13:684:GLU:OE1	2.43	0.50
5:13:776:SER:OG	5:13:777:GLU:N	2.43	0.50
7:q3:83:ARG:HD3	1:A8:215:PRO:HD3	1.92	0.50
2:F4:28:TYR:CD2	2:J4:32:ARG:CZ	2.93	0.50
3:I4:109:CYS:SG	11:I4:201:CYC:CAB	2.99	0.50
3:M4:109:CYS:SG	11:M4:202:CYC:CAB	2.99	0.50
11:P4:203:CYC:O1D	2:Q4:79:ARG:NH1	2.42	0.50
3:Z4:109:CYS:SG	11:Z4:201:CYC:CAB	2.99	0.50
11:Z4:202:CYC:CMD	11:Z4:202:CYC:HC	2.24	0.50
11:X5:203:CYC:C2C	2:Y5:84:CYS:SG	2.89	0.50
3:P6:106:ASN:HA	3:P6:110:LEU:CD1	2.37	0.50
8:K7:154:ASP:O	8:K7:158:SER:OG	2.26	0.50
11:O7:1001:CYC:HMA1	8:T7:66:THR:HG23	1.92	0.50
11:C8:201:CYC:CMD	11:C8:201:CYC:HC	2.24	0.50
2:H8:83:LYS:HZ2	11:M8:201:CYC:CGA	2.20	0.50
2:O8:137:LYS:HB3	2:O8:154:ILE:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P8:202:CYC:CGA	11:P8:202:CYC:CMA	2.85	0.50
11:P8:202:CYC:CMA	2:W8:32:ARG:HH21	2.02	0.50
2:Q8:36:PHE:HD1	2:Q8:145:ASP:HB2	1.63	0.50
2:S8:33:GLN:HG3	2:Y8:25:GLN:HE22	1.57	0.50
3:T8:109:CYS:SG	11:T8:201:CYC:CAB	2.99	0.50
2:W8:83:LYS:HZ1	11:W8:201:CYC:H2A	1.55	0.50
3:X8:142:VAL:HG23	11:X8:202:CYC:HBC3	1.92	0.50
1:A1:215:PRO:CG	1:A8:203:PHE:CD1	2.94	0.50
2:H1:58:ALA:O	2:H1:62:LYS:HB2	2.11	0.50
3:K1:72:ASN:HD21	3:K1:122:VAL:HG22	1.76	0.50
2:Y1:129:TYR:HB2	2:Y1:161:LEU:HD21	1.91	0.50
1:A2:108:ILE:HG23	1:A2:112:LEU:HD12	1.93	0.50
2:D2:80:GLY:O	2:D2:84:CYS:HB3	2.11	0.50
11:E2:202:CYC:CMD	11:E2:202:CYC:HC	2.24	0.50
11:G2:201:CYC:CMD	11:G2:201:CYC:HC	2.24	0.50
2:Q2:80:GLY:O	2:Q2:84:CYS:HB3	2.11	0.50
5:13:837:LEU:HD11	6:b7:42:ARG:CZ	2.37	0.50
7:I3:64:ASP:HB3	7:C7:67:SER:HB2	1.93	0.50
1:A4:162:ARG:NH2	1:A4:171:GLU:O	2.43	0.50
2:B4:152:ASN:ND2	2:H4:21:ASN:CA	2.73	0.50
3:E4:109:CYS:SG	11:E4:201:CYC:CAB	2.99	0.50
2:F4:27:LEU:HD13	3:G4:38:SER:HB3	1.93	0.50
11:F4:201:CYC:CMD	11:F4:201:CYC:HC	2.24	0.50
11:L4:202:CYC:CMD	11:L4:202:CYC:HC	2.24	0.50
3:M4:40:ALA:CB	3:M4:156:LEU:HD13	2.41	0.50
2:O4:72:ASN:HD22	3:T4:57:ARG:NH2	2.09	0.50
3:R4:131:VAL:HA	3:R4:134:MET:HE2	1.93	0.50
11:V4:202:CYC:NB	11:V4:202:CYC:CMA	2.73	0.50
2:W4:84:CYS:CB	11:W4:201:CYC:CAC	2.86	0.50
3:X4:6:THR:HA	3:X4:9:VAL:HB	1.94	0.50
2:Y4:36:PHE:CE1	2:Y4:149:GLU:CD	2.87	0.50
1:A5:11:SER:H	1:A5:117:PHE:HB3	1.77	0.50
2:F5:22:THR:HG22	2:J5:4:PRO:HD3	1.93	0.50
2:J5:58:ALA:O	2:J5:62:LYS:HB2	2.11	0.50
2:O5:58:ALA:O	2:O5:62:LYS:HB2	2.11	0.50
3:E6:126:SER:OG	11:E6:201:CYC:HMC2	2.10	0.50
2:F6:25:GLN:HG2	2:J6:33:GLN:HB2	1.93	0.50
3:G6:102:ALA:O	3:G6:106:ASN:ND2	2.44	0.50
3:G6:151:GLY:O	11:G6:201:CYC:OC	2.29	0.50
3:M6:126:SER:OG	11:M6:201:CYC:HMC2	2.10	0.50
11:X6:202:CYC:CGA	11:X6:202:CYC:CMA	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X6:202:CYC:NB	11:X6:202:CYC:CMA	2.72	0.50
7:A7:22:GLU:HA	7:A7:25:ARG:HB2	1.91	0.50
7:S7:25:ARG:NH1	7:S7:25:ARG:HG3	2.25	0.50
8:T7:154:ASP:O	8:T7:158:SER:OG	2.26	0.50
7:V7:95:GLY:HA3	7:V7:104:ILE:HD11	1.92	0.50
1:A8:52:GLN:NE2	1:A8:110:ARG:O	2.44	0.50
2:B8:22:THR:CG2	2:H8:103:GLY:CA	2.89	0.50
3:E8:36:LYS:HB3	3:E8:156:LEU:HD12	1.93	0.50
11:E8:203:CYC:O1D	2:F8:79:ARG:NH1	2.42	0.50
3:G8:109:CYS:SG	11:G8:202:CYC:CAB	2.99	0.50
3:I8:112:GLY:O	3:I8:116:THR:OG1	2.26	0.50
2:J8:13:ASP:OD1	3:K8:108:ARG:NH1	2.44	0.50
11:L8:202:CYC:CMD	11:L8:202:CYC:HC	2.24	0.50
2:O8:79:ARG:NH1	11:O8:201:CYC:O1D	2.42	0.50
3:P8:143:MET:O	11:P8:202:CYC:HMC2	2.11	0.50
1:A1:11:SER:H	1:A1:117:PHE:HB3	1.77	0.50
11:N1:301:CYC:O2A	3:T1:84:ARG:CZ	2.57	0.50
11:U1:201:CYC:O2D	3:Z1:57:ARG:NH2	2.44	0.50
3:X1:79:MET:HG2	11:X1:203:CYC:CMA	2.40	0.50
11:P2:202:CYC:CMB	2:W2:148:THR:OG1	2.56	0.50
3:R2:36:LYS:C	3:R2:156:LEU:HD11	2.35	0.50
5:13:307:SER:HB3	11:j3:1001:CYC:HMA1	1.92	0.50
7:I3:69:GLY:HA3	7:C7:63:PRO:CD	2.39	0.50
8:S3:157:CYS:O	8:S3:161:SER:OG	2.28	0.50
10:m3:39:ILE:HD11	10:m3:149:ALA:HB2	1.93	0.50
2:B4:64:PRO:HB3	2:J5:138:ALA:C	2.36	0.50
2:B4:68:SER:OG	2:J5:62:LYS:NZ	2.43	0.50
11:C4:201:CYC:CMD	11:C4:201:CYC:HC	2.24	0.50
3:G4:112:GLY:O	3:G4:116:THR:OG1	2.26	0.50
3:K4:109:CYS:SG	11:K4:201:CYC:CAB	2.99	0.50
2:Q4:24:LEU:HD13	11:R4:201:CYC:HBB3	1.92	0.50
3:X4:142:VAL:HG23	11:X4:202:CYC:HBC3	1.92	0.50
3:P5:151:GLY:CA	11:P5:202:CYC:CMD	2.77	0.50
3:T5:3:ASP:O	3:T5:7:ARG:N	2.42	0.50
2:U5:58:ALA:O	2:U5:62:LYS:HB2	2.11	0.50
11:C6:202:CYC:CMD	11:C6:202:CYC:HC	2.24	0.50
2:F6:80:GLY:O	2:F6:84:CYS:HB3	2.11	0.50
2:J6:80:GLY:O	2:J6:84:CYS:HB3	2.11	0.50
3:T6:153:CYS:HG	3:T6:156:LEU:HD12	1.77	0.50
8:M7:7:SER:O	8:M7:11:SER:OG	2.29	0.50
8:P7:87:TYR:HD1	11:P7:1001:CYC:HBB3	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:R7:154:ASP:O	8:R7:158:SER:OG	2.26	0.50
8:W7:7:SER:O	8:W7:11:SER:OG	2.29	0.50
2:F8:150:THR:CG2	2:F8:154:ILE:HD11	2.17	0.50
2:L8:99:LEU:HD13	2:L8:149:GLU:CD	2.36	0.50
3:M8:109:CYS:SG	11:M8:202:CYC:CAB	2.99	0.50
3:M8:169:LYS:HE2	3:T8:7:ARG:HH11	1.76	0.50
2:O8:36:PHE:CE1	2:O8:149:GLU:HB2	2.46	0.50
2:Q8:21:ASN:ND2	2:U8:153:TYR:CD1	2.79	0.50
2:S8:111:LEU:HD23	11:S8:201:CYC:CAB	2.18	0.50
3:X8:109:CYS:SG	11:X8:201:CYC:CAB	2.99	0.50
11:Z8:202:CYC:CMD	11:Z8:202:CYC:HC	2.24	0.50
2:D1:19:LEU:HB2	3:E1:45:THR:HG21	1.92	0.50
2:F1:22:THR:HG22	2:J1:4:PRO:HD3	1.93	0.50
2:W1:58:ALA:O	2:W1:62:LYS:HB2	2.11	0.50
3:Z1:3:ASP:O	3:Z1:7:ARG:N	2.42	0.50
3:Z1:72:ASN:HD21	3:Z1:122:VAL:HG22	1.76	0.50
11:C2:202:CYC:CMD	11:C2:202:CYC:HC	2.24	0.50
2:F2:80:GLY:O	2:F2:84:CYS:HB3	2.11	0.50
2:H2:84:CYS:CA	11:H2:201:CYC:HAC1	2.31	0.50
11:V2:202:CYC:NB	11:V2:202:CYC:CMA	2.73	0.50
3:X2:126:SER:OG	11:X2:201:CYC:HMC2	2.10	0.50
5:03:721:THR:OG1	5:03:762:ARG:NH1	2.43	0.50
5:13:157:ARG:NH2	9:g3:74:TYR:OH	2.44	0.50
5:13:423:VAL:HG21	5:13:466:SER:HB2	1.92	0.50
7:I3:64:ASP:O	7:C7:64:ASP:OD1	2.30	0.50
7:o3:18:LEU:HD12	8:p3:97:LEU:CD1	2.41	0.50
7:u3:3:ILE:HD13	7:O7:25:ARG:NH1	2.26	0.50
7:u3:64:ASP:O	7:Q7:64:ASP:CG	2.55	0.50
11:E4:202:CYC:CMD	11:E4:202:CYC:HC	2.24	0.50
2:L4:17:ARG:HB2	2:L4:17:ARG:CZ	2.41	0.50
3:M4:6:THR:HA	3:M4:9:VAL:HB	1.94	0.50
4:N4:251:TYR:N	4:N4:252:PRO:HD2	2.27	0.50
3:P4:109:CYS:SG	11:P4:201:CYC:CAB	2.99	0.50
2:S4:17:ARG:HB3	2:S4:17:ARG:NH1	2.27	0.50
2:Y4:40:ALA:CB	2:Y4:146:ALA:HB1	2.41	0.50
2:Y4:84:CYS:CB	11:Y4:201:CYC:CAC	2.86	0.50
2:S5:58:ALA:O	2:S5:62:LYS:HB2	2.11	0.50
3:I6:102:ALA:O	3:I6:106:ASN:ND2	2.44	0.50
3:V6:84:ARG:CD	3:V6:88:ILE:CD1	2.89	0.50
8:D7:87:TYR:HD1	11:D7:1001:CYC:HBB3	1.77	0.50
8:I7:7:SER:O	8:I7:11:SER:OG	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M7:87:TYR:HD1	11:M7:1001:CYC:HBB3	1.77	0.50
7:S7:25:ARG:CG	7:S7:25:ARG:NH1	2.73	0.50
8:T7:81:CYS:HG	11:T7:1001:CYC:HAC2	1.66	0.50
8:T7:87:TYR:HD1	11:T7:1001:CYC:HBB3	1.77	0.50
3:E8:67:ILE:CD1	11:E8:203:CYC:H2A	2.21	0.50
2:H8:5:LEU:HD12	3:I8:3:ASP:OD1	2.11	0.50
2:L8:17:ARG:HB2	2:L8:17:ARG:CZ	2.41	0.50
2:L8:149:GLU:HG2	2:L8:153:TYR:HD2	1.65	0.50
3:P8:142:VAL:HG22	11:P8:202:CYC:HBC3	1.93	0.50
2:Q8:13:ASP:OD1	3:R8:108:ARG:NH1	2.44	0.50
1:A1:172:ILE:HG23	3:G1:111:ASN:HB2	1.93	0.50
2:O1:58:ALA:O	2:O1:62:LYS:HB2	2.11	0.50
11:N2:301:CYC:HMC2	3:R2:126:SER:OG	2.10	0.50
2:U2:84:CYS:CA	11:Z2:201:CYC:HAC1	2.31	0.50
11:X2:203:CYC:HAC1	2:Y2:84:CYS:CA	2.31	0.50
5:03:290:ILE:HD11	5:03:328:GLN:NE2	2.27	0.50
5:03:460:LYS:HE3	5:03:463:ARG:HB2	1.94	0.50
5:03:749:ASP:OD1	5:03:749:ASP:N	2.42	0.50
5:03:787:TYR:HB3	5:03:791:LYS:HB3	1.92	0.50
5:13:239:ARG:NH2	5:13:352:SER:OG	2.44	0.50
3:I4:72:ASN:HD21	3:I4:122:VAL:HG22	1.77	0.50
3:K4:151:GLY:N	11:K4:202:CYC:OC	2.39	0.50
3:P4:142:VAL:HG22	11:P4:202:CYC:HBC3	1.93	0.50
2:Y4:8:ALA:HB1	2:Y4:23:GLU:HG3	1.94	0.50
3:X5:72:ASN:HD21	3:X5:122:VAL:HG22	1.76	0.50
3:X5:79:MET:HE2	11:X5:203:CYC:HAA1	1.93	0.50
3:E6:38:SER:HA	3:E6:41:VAL:HB	1.94	0.50
11:R6:201:CYC:NB	11:R6:201:CYC:CMA	2.73	0.50
2:U6:6:THR:HG23	3:V6:1:MET:SD	2.51	0.50
3:V6:84:ARG:HD2	3:V6:84:ARG:C	2.36	0.50
3:V6:102:ALA:O	3:V6:106:ASN:ND2	2.44	0.50
2:F8:24:LEU:HD12	3:G8:39:ASP:HB2	1.92	0.50
11:F8:201:CYC:NB	11:F8:201:CYC:CMA	2.73	0.50
2:H8:18:PHE:CE1	3:I8:91:ARG:HB2	2.45	0.50
11:P8:202:CYC:CMD	11:P8:202:CYC:HC	2.24	0.50
2:Q8:159:ASN:ND2	3:V8:46:ASN:O	2.43	0.50
3:X8:139:VAL:CA	3:X8:142:VAL:HG13	2.39	0.50
3:R1:72:ASN:HD21	3:R1:122:VAL:HG22	1.76	0.50
3:X1:72:ASN:HD21	3:X1:122:VAL:HG22	1.76	0.50
3:C2:102:ALA:O	3:C2:106:ASN:ND2	2.44	0.50
3:V2:126:SER:OG	11:V2:201:CYC:HMC2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X2:202:CYC:CMD	11:X2:202:CYC:HC	2.24	0.50
5:03:155:PHE:O	5:03:159:THR:OG1	2.27	0.50
5:13:657:SER:HB2	8:a3:118:SER:HB2	1.94	0.50
6:33:50:ILE:H	8:n3:110:ASN:HD21	1.59	0.50
7:w3:78:THR:HB	1:A4:222:ALA:HB1	1.94	0.50
3:C4:72:ASN:HD21	3:C4:122:VAL:HG22	1.77	0.50
11:C4:201:CYC:NB	11:C4:201:CYC:CMA	2.73	0.50
2:D4:25:GLN:HE21	2:L4:33:GLN:CG	1.99	0.50
2:D4:84:CYS:CB	11:D4:201:CYC:CAC	2.86	0.50
11:E4:203:CYC:CAC	2:F4:84:CYS:CB	2.86	0.50
2:F4:24:LEU:HD13	2:F4:24:LEU:C	2.37	0.50
3:G4:67:ILE:HD12	11:G4:201:CYC:H2A	1.76	0.50
3:I4:65:GLN:HE21	3:P4:65:GLN:HE21	1.58	0.50
3:K4:79:MET:HG3	2:L4:118:ILE:HD11	1.93	0.50
2:L4:43:THR:CG2	2:L4:142:LEU:CD2	2.90	0.50
11:R4:201:CYC:CMD	11:R4:201:CYC:HC	2.24	0.50
2:S4:8:ALA:HB1	2:S4:23:GLU:HG3	1.93	0.50
3:T4:109:CYS:SG	11:T4:201:CYC:CAB	2.99	0.50
11:T4:202:CYC:CMD	11:T4:202:CYC:HC	2.24	0.50
2:U4:36:PHE:CZ	2:U4:145:ASP:HB3	2.47	0.50
3:I5:72:ASN:HD21	3:I5:122:VAL:HG22	1.76	0.50
3:K5:72:ASN:HD21	3:K5:122:VAL:HG22	1.76	0.50
4:N6:3:VAL:HG22	4:N6:153:TYR:HB3	1.93	0.50
3:R6:102:ALA:O	3:R6:106:ASN:ND2	2.44	0.50
7:E7:22:GLU:CG	7:E7:25:ARG:HD3	2.42	0.50
7:V7:107:ILE:HG23	8:a7:74:THR:HG22	1.94	0.50
2:B8:140:HIS:CE1	2:B8:142:LEU:H	2.30	0.50
3:C8:43:ARG:NH1	11:C8:201:CYC:H3C	2.27	0.50
3:K8:112:GLY:O	3:K8:116:THR:OG1	2.26	0.50
4:N8:45:ASN:HD22	4:N8:175:ALA:C	2.19	0.50
4:N8:251:TYR:N	4:N8:252:PRO:HD2	2.27	0.50
11:T8:202:CYC:CMD	11:T8:202:CYC:HC	2.24	0.50
3:X8:6:THR:HA	3:X8:9:VAL:HB	1.94	0.50
2:Y8:8:ALA:HB1	2:Y8:23:GLU:HG3	1.94	0.50
3:Z8:139:VAL:C	3:Z8:143:MET:HB2	2.37	0.50
1:A1:145:ASP:OD1	1:A1:145:ASP:N	2.43	0.50
2:B1:129:TYR:HB2	2:B1:161:LEU:HD21	1.92	0.50
3:P1:3:ASP:O	3:P1:7:ARG:N	2.42	0.50
2:S1:58:ALA:O	2:S1:62:LYS:HB2	2.11	0.50
2:U1:24:LEU:HD13	11:U1:202:CYC:HBB2	1.94	0.50
2:U1:58:ALA:O	2:U1:62:LYS:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F2:25:GLN:HG2	2:J2:33:GLN:HB2	1.93	0.50
5:03:486:GLY:O	5:03:489:ASN:ND2	2.45	0.50
7:X3:63:PRO:HG2	7:J7:68:PRO:O	2.12	0.50
8:z3:62:TYR:CE2	1:A8:203:PHE:HA	2.47	0.50
3:E4:72:ASN:HD21	3:E4:122:VAL:HG22	1.77	0.50
2:F4:24:LEU:O	2:F4:28:TYR:HD1	1.94	0.50
11:F4:201:CYC:NB	11:F4:201:CYC:CMA	2.72	0.50
3:G4:6:THR:HA	3:G4:9:VAL:HB	1.94	0.50
3:G4:109:CYS:SG	11:G4:202:CYC:CAB	2.99	0.50
2:J4:24:LEU:HD21	3:K4:42:SER:HB2	1.88	0.50
2:O4:36:PHE:CE1	2:O4:149:GLU:HB2	2.46	0.50
3:P4:143:MET:O	11:P4:202:CYC:HMC2	2.11	0.50
11:P4:202:CYC:CMD	11:P4:202:CYC:HC	2.24	0.50
2:S4:84:CYS:CB	11:S4:201:CYC:CAC	2.86	0.50
2:W4:151:ASN:O	2:W4:155:ASP:HB2	2.12	0.50
2:D5:58:ALA:O	2:D5:62:LYS:HB2	2.11	0.50
2:O5:38:LEU:HD13	3:P5:28:LYS:HG3	1.94	0.50
11:A6:301:CYC:HMC2	3:G6:126:SER:OG	2.10	0.50
2:D6:73:ASN:OD1	2:D6:73:ASN:N	2.42	0.50
8:K7:87:TYR:HD1	11:K7:1001:CYC:HBB3	1.77	0.50
6:U7:10:VAL:HG22	6:U7:48:GLY:HA3	1.92	0.50
3:C8:139:VAL:C	3:C8:142:VAL:HG13	2.28	0.50
3:E8:6:THR:HA	3:E8:9:VAL:HB	1.94	0.50
11:E8:202:CYC:CMD	11:E8:202:CYC:HC	2.24	0.50
11:F8:201:CYC:CMD	11:F8:201:CYC:HC	2.24	0.50
3:M8:6:THR:HA	3:M8:9:VAL:HB	1.94	0.50
3:P8:109:CYS:SG	11:P8:201:CYC:CAB	2.99	0.50
2:U8:17:ARG:HH11	2:U8:17:ARG:HB3	1.76	0.50
2:U8:24:LEU:CD1	3:V8:42:SER:HB3	2.40	0.50
3:V8:109:CYS:SG	11:V8:201:CYC:CAB	2.99	0.50
11:V8:202:CYC:CMD	11:V8:202:CYC:HC	2.24	0.50
1:A2:196:TRP:HE3	7:N3:59:PHE:CD2	2.19	0.50
3:I2:151:GLY:CA	11:I2:202:CYC:HMD2	2.40	0.50
11:M2:202:CYC:HMD2	11:M2:202:CYC:HC	1.77	0.50
11:M2:202:CYC:HBD1	11:M2:202:CYC:CHA	2.29	0.50
3:X2:102:ALA:O	3:X2:106:ASN:ND2	2.44	0.50
5:03:157:ARG:NH2	9:Q3:74:TYR:OH	2.44	0.50
5:03:182:ILE:HG13	5:03:188:ILE:HD11	1.94	0.50
5:13:49:SER:O	5:13:49:SER:OG	2.26	0.50
5:13:234:ASP:OD1	5:13:234:ASP:N	2.36	0.50
7:o3:87:TYR:OH	1:A5:213:GLY:CA	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:t3:62:TYR:HE1	1:A4:203:PHE:HB2	0.71	0.50
3:C4:43:ARG:NH1	11:C4:201:CYC:H3C	2.27	0.50
3:M4:153:CYS:HG	3:M4:156:LEU:HB2	1.76	0.50
3:P4:6:THR:HA	3:P4:9:VAL:HB	1.94	0.50
2:Q4:15:GLN:HE21	2:Q4:17:ARG:NE	1.86	0.50
2:Q4:152:ASN:HD21	2:U4:21:ASN:HA	1.77	0.50
2:S4:15:GLN:OE1	2:Y4:2:LYS:HD3	2.12	0.50
2:U4:18:PHE:CE1	3:V4:91:ARG:CB	2.95	0.50
2:U4:24:LEU:CD1	3:V4:42:SER:HB3	2.40	0.50
2:U4:142:LEU:HB2	2:U4:147:ALA:HA	1.93	0.50
11:V4:202:CYC:CMD	11:V4:202:CYC:HC	2.24	0.50
3:T5:111:ASN:OD1	3:T5:111:ASN:N	2.31	0.50
2:W5:58:ALA:O	2:W5:62:LYS:HB2	2.11	0.50
1:A6:64:GLN:O	1:A6:68:SER:HB3	2.10	0.50
2:B6:24:LEU:HD12	11:C6:202:CYC:CBB	1.98	0.50
11:C6:202:CYC:HC	11:C6:202:CYC:HMD2	1.77	0.50
11:I6:202:CYC:CMD	11:I6:202:CYC:HC	2.24	0.50
3:M6:141:ILE:O	3:M6:144:ASP:OD2	2.30	0.50
3:R6:36:LYS:HZ2	3:R6:36:LYS:HB3	1.76	0.50
3:R6:37:ARG:CA	3:R6:156:LEU:HD21	2.41	0.50
11:T6:201:CYC:CMD	11:T6:201:CYC:HC	2.24	0.50
2:W6:80:GLY:O	2:W6:84:CYS:HB3	2.11	0.50
11:Z6:202:CYC:HMD2	11:Z6:202:CYC:HC	1.77	0.50
8:I7:87:TYR:HD1	11:I7:1001:CYC:HBB3	1.77	0.50
2:B8:84:CYS:CB	11:G8:201:CYC:CAC	2.86	0.50
3:K8:72:ASN:HD21	3:K8:122:VAL:HG22	1.77	0.50
4:N8:248:THR:HB	4:N8:249:PRO:HD3	1.94	0.50
11:R8:201:CYC:CMD	11:R8:201:CYC:HC	2.24	0.50
2:S8:140:HIS:CE1	2:S8:142:LEU:CD1	2.94	0.50
11:X8:202:CYC:CMD	11:X8:202:CYC:HC	2.24	0.50
2:Q1:58:ALA:O	2:Q1:62:LYS:HB2	2.11	0.50
11:T1:201:CYC:HAB2	2:Y1:149:GLU:OE2	2.12	0.50
3:V1:72:ASN:HD21	3:V1:122:VAL:HG22	1.76	0.50
3:K2:153:CYS:SG	11:K2:202:CYC:CBC	3.00	0.50
11:K2:203:CYC:HAC1	2:L2:84:CYS:CA	2.31	0.50
5:13:832:ASN:HB2	6:b7:38:ARG:NH2	2.27	0.50
7:w3:77:MET:SD	1:A5:201:ARG:O	2.70	0.50
1:A4:52:GLN:NE2	1:A4:110:ARG:O	2.44	0.50
3:E4:51:ILE:HD11	3:E4:141:ILE:HD12	1.94	0.50
3:I4:6:THR:HA	3:I4:9:VAL:HB	1.94	0.50
2:O4:21:ASN:ND2	2:O4:21:ASN:O	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R4:6:THR:HA	3:R4:9:VAL:HB	1.94	0.50
3:Z4:6:THR:HA	3:Z4:9:VAL:HB	1.94	0.50
1:A5:38:SER:OG	1:A5:39:ASP:N	2.43	0.50
3:E5:72:ASN:HD21	3:E5:122:VAL:HG22	1.76	0.50
2:Q5:58:ALA:O	2:Q5:62:LYS:HB2	2.11	0.50
3:V5:72:ASN:HD21	3:V5:122:VAL:HG22	1.76	0.50
3:K6:153:CYS:SG	11:K6:202:CYC:CBC	3.00	0.50
11:K6:202:CYC:HMD2	11:K6:202:CYC:HC	1.77	0.50
3:R6:33:GLU:HB2	3:R6:36:LYS:NZ	2.27	0.50
7:C7:16:ARG:O	8:D7:94:TYR:OH	2.30	0.50
8:Y7:87:TYR:HD1	11:Y7:1001:CYC:HBB3	1.77	0.50
11:I8:202:CYC:HMD2	11:I8:202:CYC:HC	1.77	0.50
2:J8:18:PHE:N	2:J8:18:PHE:CD2	2.73	0.50
2:J8:140:HIS:CE1	2:J8:142:LEU:CB	2.91	0.50
3:P8:6:THR:HA	3:P8:9:VAL:HB	1.94	0.50
3:R8:6:THR:HA	3:R8:9:VAL:HB	1.94	0.50
2:S8:15:GLN:OE1	2:Y8:2:LYS:HD3	2.12	0.50
3:X8:139:VAL:CA	3:X8:142:VAL:HG12	2.40	0.50
1:A2:200:VAL:HG12	7:N3:52:LYS:CD	2.42	0.49
3:C2:39:ASP:OD2	11:C2:202:CYC:HHB	2.12	0.49
3:E2:38:SER:HA	3:E2:41:VAL:HB	1.94	0.49
4:N2:69:ARG:HH21	4:N2:134:ASP:HA	1.77	0.49
2:Y2:73:ASN:OD1	2:Y2:73:ASN:N	2.42	0.49
8:H3:3:ASP:OD2	8:H3:3:ASP:N	2.37	0.49
7:N3:97:VAL:HG21	8:O3:19:LEU:HD13	1.94	0.49
7:i3:124:ASP:OD1	7:i3:124:ASP:N	2.32	0.49
7:u3:20:PRO:CB	7:O7:151:ALA:HB1	2.28	0.49
1:A4:203:PHE:HD1	1:A5:215:PRO:CG	2.21	0.49
2:B4:140:HIS:CE1	2:B4:142:LEU:H	2.30	0.49
2:J4:140:HIS:CE1	2:J4:142:LEU:H	2.30	0.49
3:K4:3:ASP:HA	3:K4:99:THR:HG22	1.94	0.49
3:K4:41:VAL:HG11	3:K4:98:PHE:HB2	1.94	0.49
3:P4:67:ILE:HD12	11:P4:203:CYC:H2A	1.76	0.49
3:P4:72:ASN:HD21	3:P4:122:VAL:HG22	1.77	0.49
3:R4:41:VAL:HG11	3:R4:98:PHE:HB2	1.94	0.49
2:S4:140:HIS:ND1	2:S4:142:LEU:CD1	2.75	0.49
2:S4:148:THR:OG1	11:Z4:202:CYC:CBC	2.59	0.49
3:V4:41:VAL:HG11	3:V4:98:PHE:HB2	1.94	0.49
3:V4:139:VAL:O	3:V4:142:VAL:N	2.45	0.49
3:X4:72:ASN:HD21	3:X4:122:VAL:HG22	1.77	0.49
3:X4:139:VAL:CA	3:X4:142:VAL:HG13	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X4:202:CYC:CMD	11:X4:202:CYC:HC	2.24	0.49
11:X4:202:CYC:HC	11:X4:202:CYC:HMD2	1.77	0.49
2:L5:58:ALA:O	2:L5:62:LYS:HB2	2.11	0.49
2:S5:28:TYR:OH	11:T5:201:CYC:C4B	2.59	0.49
2:D6:24:LEU:CB	11:E6:202:CYC:HBB1	2.36	0.49
3:I6:109:CYS:O	3:I6:113:LEU:HB3	2.12	0.49
4:N6:155:VAL:O	4:N6:159:HIS:ND1	2.38	0.49
8:D7:144:ASP:HA	8:D7:147:ARG:HD2	1.94	0.49
8:W7:144:ASP:HA	8:W7:147:ARG:HD2	1.94	0.49
3:G8:6:THR:HA	3:G8:9:VAL:HB	1.94	0.49
2:J8:24:LEU:HD12	3:K8:39:ASP:CB	2.42	0.49
3:K8:153:CYS:SG	11:K8:202:CYC:HAC2	2.52	0.49
2:L8:43:THR:CG2	2:L8:142:LEU:CD2	2.90	0.49
4:N8:77:GLN:NE2	4:N8:130:ASN:OD1	2.45	0.49
2:O8:21:ASN:O	2:O8:21:ASN:ND2	2.45	0.49
2:Q8:24:LEU:HD13	11:R8:201:CYC:HBB3	1.92	0.49
2:S8:140:HIS:ND1	2:S8:142:LEU:CD1	2.75	0.49
3:V8:41:VAL:HG13	3:V8:94:THR:HG23	1.94	0.49
3:Z8:143:MET:HE3	3:Z8:143:MET:CA	2.25	0.49
1:A2:182:ASP:OD1	1:A2:182:ASP:N	2.35	0.49
2:U2:73:ASN:OD1	2:U2:73:ASN:N	2.42	0.49
11:Z2:203:CYC:HMD2	11:Z2:203:CYC:HC	1.77	0.49
5:03:565:THR:HG21	6:G7:29:LYS:NZ	2.27	0.49
5:13:486:GLY:O	5:13:489:ASN:ND2	2.45	0.49
5:13:518:GLY:HA3	8:I7:118:SER:O	2.12	0.49
7:X3:6:LYS:HZ3	7:H7:10:ASN:HD21	1.54	0.49
7:w3:82:LEU:C	1:A4:218:PHE:HD1	2.20	0.49
1:A4:216:ALA:HA	1:A5:203:PHE:CZ	2.44	0.49
2:F4:150:THR:HG21	2:F4:154:ILE:HD12	1.81	0.49
3:G4:72:ASN:HD21	3:G4:122:VAL:HG22	1.77	0.49
3:I4:147:GLY:C	3:I4:148:VAL:HG13	2.34	0.49
11:I4:202:CYC:CMD	11:I4:202:CYC:HC	2.24	0.49
11:I4:202:CYC:HMD2	11:I4:202:CYC:HC	1.77	0.49
2:J4:24:LEU:CG	3:K4:42:SER:HB3	2.42	0.49
2:J4:40:ALA:HB2	2:J4:146:ALA:HB1	1.94	0.49
11:L4:202:CYC:HC	11:L4:202:CYC:HMD2	1.77	0.49
11:P4:202:CYC:HC	11:P4:202:CYC:HMD2	1.77	0.49
11:P4:203:CYC:CAC	2:Q4:84:CYS:CB	2.86	0.49
2:Q4:137:LYS:HA	2:Q4:140:HIS:HD2	1.76	0.49
3:Z4:139:VAL:C	3:Z4:143:MET:HB2	2.37	0.49
3:P5:72:ASN:HD21	3:P5:122:VAL:HG22	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R5:111:ASN:OD1	3:R5:111:ASN:N	2.31	0.49
11:X5:203:CYC:CAC	2:Y5:84:CYS:CA	2.74	0.49
2:D6:24:LEU:HB2	11:E6:202:CYC:CBB	2.41	0.49
11:M6:202:CYC:HMD2	11:M6:202:CYC:HC	1.77	0.49
2:Q6:17:ARG:O	3:R6:95:TYR:OH	2.30	0.49
3:R6:151:GLY:CA	11:R6:201:CYC:HMD1	2.23	0.49
3:X6:153:CYS:SG	3:X6:154:SER:N	2.85	0.49
8:F7:87:TYR:HD1	11:F7:1001:CYC:HBB3	1.77	0.49
8:R7:87:TYR:HD1	11:R7:1001:CYC:HBB3	1.77	0.49
7:V7:113:ARG:O	7:V7:117:LYS:HB2	2.12	0.49
8:W7:87:TYR:HD1	11:W7:1001:CYC:HBB3	1.77	0.49
7:Z7:95:GLY:HA3	7:Z7:104:ILE:HD11	1.92	0.49
3:C8:72:ASN:HD21	3:C8:122:VAL:HG22	1.77	0.49
3:E8:51:ILE:HD11	3:E8:141:ILE:HD12	1.94	0.49
2:F8:36:PHE:HZ	2:F8:149:GLU:CD	2.16	0.49
3:I8:72:ASN:HD21	3:I8:122:VAL:HG22	1.77	0.49
11:P8:202:CYC:HC	11:P8:202:CYC:HMD2	1.77	0.49
2:U8:18:PHE:CE1	3:V8:91:ARG:CB	2.95	0.49
3:V8:139:VAL:O	3:V8:142:VAL:N	2.45	0.49
1:A1:214:ASP:OD2	8:z3:67:ARG:CD	2.46	0.49
1:A1:219:LEU:HA	7:u3:79:ALA:HB2	1.95	0.49
3:C1:72:ASN:HD21	3:C1:122:VAL:HG22	1.76	0.49
3:M1:72:ASN:HD21	3:M1:122:VAL:HG22	1.76	0.49
2:O1:38:LEU:HD13	3:P1:28:LYS:HG3	1.94	0.49
2:S1:28:TYR:OH	11:T1:201:CYC:C4B	2.59	0.49
11:C2:202:CYC:HC	11:C2:202:CYC:HMD2	1.77	0.49
11:G2:201:CYC:HMD2	11:G2:201:CYC:HC	1.77	0.49
11:I2:202:CYC:HMD2	11:I2:202:CYC:HC	1.77	0.49
3:Z2:102:ALA:O	3:Z2:106:ASN:ND2	2.44	0.49
5:03:719:THR:CB	6:U7:23:GLN:HE21	2.23	0.49
7:X3:70:GLY:HA2	7:J7:64:ASP:OD1	2.13	0.49
7:d3:56:ASP:OD2	1:A6:200:VAL:CG2	2.59	0.49
7:o3:151:ALA:CB	7:V7:20:PRO:HB3	2.33	0.49
8:t3:62:TYR:O	1:A4:205:THR:HA	2.12	0.49
8:v3:68:PRO:HB3	8:x3:13:ASP:O	2.11	0.49
2:B4:22:THR:CG2	2:H4:103:GLY:CA	2.89	0.49
2:F4:83:LYS:HZ2	2:F4:86:ARG:HH12	1.60	0.49
11:F4:201:CYC:HC	11:F4:201:CYC:HMD2	1.77	0.49
11:I4:202:CYC:HBD1	11:I4:202:CYC:CHA	2.29	0.49
3:M4:41:VAL:HG11	3:M4:98:PHE:HB2	1.95	0.49
4:N4:248:THR:HB	4:N4:249:PRO:HD3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O4:84:CYS:CB	11:O4:201:CYC:CAC	2.86	0.49
2:Q4:22:THR:HG23	2:U4:103:GLY:HA2	1.93	0.49
3:T4:41:VAL:HG13	3:T4:94:THR:HG23	1.95	0.49
3:V4:138:ALA:C	3:V4:142:VAL:HG12	2.32	0.49
2:W4:28:TYR:CZ	3:X4:38:SER:OG	2.59	0.49
2:Y4:137:LYS:CA	2:Y4:140:HIS:CD2	2.95	0.49
11:Z4:202:CYC:NB	11:Z4:202:CYC:CMA	2.73	0.49
2:H5:58:ALA:O	2:H5:62:LYS:HB2	2.11	0.49
4:N5:248:THR:N	4:N5:249:PRO:HD2	2.24	0.49
1:A6:26:GLU:HB3	1:A6:163:SER:OG	2.13	0.49
11:R6:201:CYC:CMD	11:R6:201:CYC:HC	2.24	0.49
3:V6:33:GLU:CB	3:V6:36:LYS:NZ	2.68	0.49
11:X6:202:CYC:CMD	11:X6:202:CYC:HC	2.24	0.49
7:H7:27:LYS:HB2	8:I7:38:VAL:HG11	1.93	0.49
8:P7:144:ASP:HA	8:P7:147:ARG:HD2	1.94	0.49
8:a7:87:TYR:HD1	11:a7:1001:CYC:HBB3	1.77	0.49
11:F8:201:CYC:HC	11:F8:201:CYC:HMD2	1.77	0.49
3:I8:6:THR:HA	3:I8:9:VAL:HB	1.94	0.49
11:I8:202:CYC:CMD	11:I8:202:CYC:HC	2.24	0.49
2:Q8:137:LYS:HA	2:Q8:140:HIS:HD2	1.76	0.49
3:T8:6:THR:HA	3:T8:9:VAL:HB	1.94	0.49
3:T8:41:VAL:HG13	3:T8:94:THR:HG23	1.95	0.49
3:V8:6:THR:HA	3:V8:9:VAL:HB	1.94	0.49
2:W8:150:THR:CA	2:W8:153:TYR:HB2	2.41	0.49
3:Z8:109:CYS:SG	11:Z8:201:CYC:CAB	2.99	0.49
1:A1:203:PHE:CE2	1:A8:215:PRO:CB	2.96	0.49
2:B1:58:ALA:O	2:B1:62:LYS:HB2	2.11	0.49
3:C1:111:ASN:OD1	3:C1:111:ASN:N	2.31	0.49
1:A2:200:VAL:HG13	7:N3:52:LYS:HG2	1.88	0.49
2:B2:25:GLN:HG2	2:H2:33:GLN:HB2	1.94	0.49
11:I2:202:CYC:CMD	11:I2:202:CYC:HC	2.24	0.49
11:K2:202:CYC:HMD2	11:K2:202:CYC:HC	1.77	0.49
3:M2:141:ILE:O	3:M2:144:ASP:OD2	2.30	0.49
11:T2:202:CYC:C3B	2:Y2:145:ASP:OD1	2.61	0.49
3:X2:57:ARG:HA	3:X2:57:ARG:NE	2.22	0.49
5:03:243:ASP:OD1	5:03:243:ASP:N	2.46	0.49
5:13:557:ILE:HD11	8:I7:83:ARG:HD2	1.90	0.49
7:I3:113:ARG:NH1	7:C7:117:LYS:CG	2.74	0.49
7:X3:20:PRO:CG	7:H7:151:ALA:O	2.61	0.49
3:E4:39:ASP:CG	11:E4:202:CYC:CMB	2.85	0.49
3:M4:3:ASP:HA	3:M4:99:THR:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N4:77:GLN:NE2	4:N4:130:ASN:OD1	2.45	0.49
3:P4:151:GLY:H	11:P4:202:CYC:C1C	2.25	0.49
3:V4:3:ASP:HA	3:V4:99:THR:HG22	1.94	0.49
2:W4:140:HIS:CE1	2:W4:142:LEU:H	2.31	0.49
2:D5:152:ASN:HD21	3:M5:42:SER:HB2	1.76	0.49
3:I6:79:MET:HG2	11:J6:201:CYC:HMA1	1.95	0.49
11:R6:201:CYC:HMD2	11:R6:201:CYC:HC	1.78	0.49
11:T6:201:CYC:HMD2	11:T6:201:CYC:HC	1.77	0.49
11:T6:201:CYC:HMA3	11:T6:201:CYC:HBA2	1.95	0.49
11:H7:1001:CYC:HMA1	8:M7:66:THR:CG2	2.43	0.49
8:K7:10:ASN:O	8:K7:14:VAL:HG12	2.12	0.49
3:C8:41:VAL:HG13	3:C8:94:THR:HG23	1.94	0.49
3:K8:3:ASP:HA	3:K8:99:THR:HG22	1.95	0.49
2:Q8:152:ASN:HD21	2:U8:21:ASN:HA	1.77	0.49
2:U8:36:PHE:CZ	2:U8:145:ASP:HB3	2.46	0.49
2:W8:140:HIS:CE1	2:W8:142:LEU:H	2.30	0.49
2:W8:151:ASN:O	2:W8:155:ASP:HB2	2.12	0.49
11:Z8:202:CYC:HC	11:Z8:202:CYC:HMD2	1.77	0.49
2:F1:58:ALA:O	2:F1:62:LYS:HB2	2.11	0.49
2:U1:73:ASN:OD1	2:U1:73:ASN:N	2.28	0.49
11:C2:202:CYC:HMA3	11:C2:202:CYC:HBA2	1.95	0.49
3:P2:106:ASN:OD1	3:P2:110:LEU:HD12	2.12	0.49
5:13:523:VAL:HA	7:J7:106:GLU:OE2	2.11	0.49
8:L3:14:VAL:HG12	9:Q3:128:VAL:HG11	1.94	0.49
10:m3:81:CYS:SG	11:m3:201:CYC:HBC1	2.46	0.49
7:u3:3:ILE:HD11	7:O7:25:ARG:NH1	2.28	0.49
11:C4:201:CYC:HBA2	11:C4:201:CYC:HMA3	1.95	0.49
2:D4:26:TYR:OH	2:L4:4:PRO:CB	2.61	0.49
3:K4:139:VAL:C	3:K4:142:VAL:HG12	2.36	0.49
2:S4:22:THR:HG21	2:Y4:4:PRO:HD3	1.93	0.49
1:A5:17:VAL:HB	3:E5:84:ARG:HD2	1.94	0.49
11:C6:202:CYC:HMA3	11:C6:202:CYC:HBA2	1.95	0.49
3:E6:102:ALA:O	3:E6:106:ASN:ND2	2.44	0.49
11:G6:201:CYC:HMD2	11:G6:201:CYC:HC	1.77	0.49
11:T6:201:CYC:C3B	2:Y6:145:ASP:OD1	2.61	0.49
7:A7:113:ARG:O	7:A7:117:LYS:HB2	2.11	0.49
8:K7:144:ASP:HA	8:K7:147:ARG:HD2	1.94	0.49
7:X7:76:GLU:O	7:X7:80:THR:OG1	2.31	0.49
3:E8:41:VAL:HG11	3:E8:98:PHE:HB2	1.95	0.49
3:K8:41:VAL:HG13	3:K8:94:THR:HG23	1.94	0.49
3:P8:72:ASN:HD21	3:P8:122:VAL:HG22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R8:131:VAL:HA	3:R8:134:MET:HE2	1.93	0.49
2:S8:150:THR:O	2:S8:154:ILE:HG13	2.13	0.49
3:V8:3:ASP:HA	3:V8:99:THR:HG22	1.95	0.49
3:V8:41:VAL:HG11	3:V8:98:PHE:HB2	1.95	0.49
3:V8:153:CYS:CB	11:V8:202:CYC:CAC	2.90	0.49
11:X8:202:CYC:HC	11:X8:202:CYC:HMD2	1.77	0.49
2:Y8:137:LYS:CA	2:Y8:140:HIS:CD2	2.95	0.49
3:Z8:139:VAL:HA	3:Z8:142:VAL:HG11	1.88	0.49
3:P1:84:ARG:CZ	11:P1:201:CYC:O2A	2.57	0.49
3:X1:3:ASP:O	3:X1:7:ARG:N	2.42	0.49
4:N2:3:VAL:HG22	4:N2:153:TYR:HB3	1.93	0.49
11:R2:201:CYC:HBA2	11:R2:201:CYC:HMA3	1.95	0.49
3:X2:153:CYS:SG	3:X2:154:SER:N	2.85	0.49
5:03:49:SER:O	5:03:49:SER:OG	2.26	0.49
5:03:476:THR:HA	8:L3:106:GLU:HG2	1.95	0.49
5:13:290:ILE:HG12	5:13:296:GLN:HB2	1.94	0.49
5:13:435:GLN:NE2	8:e3:119:LEU:O	2.46	0.49
5:13:460:LYS:HE3	5:13:463:ARG:HB2	1.94	0.49
5:13:522:ASN:N	5:13:522:ASN:ND2	2.60	0.49
5:13:523:VAL:CG1	7:J7:106:GLU:OE1	2.60	0.49
7:o3:151:ALA:HB1	7:V7:20:PRO:CG	2.38	0.49
1:A4:196:TRP:HZ2	7:X7:63:PRO:HG3	1.78	0.49
2:B4:22:THR:CG2	2:H4:103:GLY:HA2	2.41	0.49
3:C4:6:THR:HA	3:C4:9:VAL:HB	1.94	0.49
3:E4:6:THR:HA	3:E4:9:VAL:HB	1.94	0.49
3:K4:72:ASN:HD21	3:K4:122:VAL:HG22	1.77	0.49
2:L4:145:ASP:N	2:L4:145:ASP:OD2	2.45	0.49
3:M4:67:ILE:HD12	11:M4:201:CYC:O2A	2.08	0.49
3:M4:72:ASN:HD21	3:M4:122:VAL:HG22	1.77	0.49
11:V4:202:CYC:HMD2	11:V4:202:CYC:HC	1.77	0.49
3:X5:79:MET:HG2	11:X5:203:CYC:CMA	2.40	0.49
11:I6:202:CYC:HMD2	11:I6:202:CYC:HC	1.78	0.49
4:N6:77:GLN:NE2	4:N6:130:ASN:OD1	2.37	0.49
11:R6:201:CYC:HBA2	11:R6:201:CYC:HMA3	1.95	0.49
3:X6:150:SER:O	11:X6:202:CYC:HAD1	2.11	0.49
7:E7:90:ARG:HD2	8:F7:17:LYS:O	2.12	0.49
8:Y7:144:ASP:HA	8:Y7:147:ARG:HD2	1.94	0.49
3:E8:39:ASP:OD2	11:E8:202:CYC:HMB2	2.09	0.49
3:E8:72:ASN:HD21	3:E8:122:VAL:HG22	1.77	0.49
11:E8:202:CYC:HMA3	11:E8:202:CYC:HBA2	1.94	0.49
2:H8:79:ARG:NH1	11:M8:201:CYC:O1D	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I8:151:GLY:O	11:I8:202:CYC:C1C	2.61	0.49
2:J8:40:ALA:HB2	2:J8:146:ALA:HB1	1.94	0.49
2:L8:145:ASP:OD2	2:L8:145:ASP:N	2.45	0.49
3:R8:41:VAL:HG11	3:R8:98:PHE:HB2	1.95	0.49
11:V8:202:CYC:HMA3	11:V8:202:CYC:HBA2	1.94	0.49
11:X8:202:CYC:CBD	11:X8:202:CYC:CHA	2.86	0.49
3:E1:3:ASP:O	3:E1:7:ARG:N	2.42	0.49
2:O1:111:LEU:CD2	11:O1:201:CYC:CAB	2.78	0.49
11:P1:202:CYC:CAB	2:W1:149:GLU:OE2	2.44	0.49
1:A2:117:PHE:N	1:A2:121:GLU:OE1	2.39	0.49
11:E2:202:CYC:HBA2	11:E2:202:CYC:HMA3	1.94	0.49
3:G2:151:GLY:O	11:G2:201:CYC:OC	2.29	0.49
3:P2:102:ALA:O	3:P2:106:ASN:ND2	2.44	0.49
3:Z2:57:ARG:CZ	11:Z2:201:CYC:O1A	2.61	0.49
7:I3:20:PRO:HD2	7:A7:101:VAL:HG11	1.94	0.49
7:T3:107:ILE:HD13	8:U3:13:ASP:OD1	2.13	0.49
1:A4:196:TRP:NE1	7:X7:63:PRO:HG3	2.27	0.49
11:E4:202:CYC:HMD2	11:E4:202:CYC:HC	1.78	0.49
3:G4:41:VAL:HG11	3:G4:98:PHE:HB2	1.95	0.49
3:I4:67:ILE:HD12	11:I4:203:CYC:H2A	1.76	0.49
2:J4:13:ASP:OD1	3:K4:108:ARG:NH1	2.44	0.49
3:V4:6:THR:HA	3:V4:9:VAL:HB	1.94	0.49
3:V4:41:VAL:HG13	3:V4:94:THR:HG23	1.94	0.49
3:X4:139:VAL:CA	3:X4:142:VAL:HG12	2.40	0.49
1:A5:58:PHE:HB2	2:B5:117:GLU:OE2	2.13	0.49
3:V5:111:ASN:OD1	3:V5:111:ASN:N	2.31	0.49
1:A6:71:ARG:HB2	11:I6:201:CYC:HBA2	1.94	0.49
3:P6:106:ASN:OD1	3:P6:110:LEU:HD12	2.12	0.49
7:S7:76:GLU:O	7:S7:80:THR:OG1	2.31	0.49
7:V7:27:LYS:HB2	8:W7:38:VAL:HG11	1.95	0.49
11:E8:203:CYC:H2A	2:F8:86:ARG:HH22	1.49	0.49
3:G8:3:ASP:HA	3:G8:99:THR:HG22	1.94	0.49
3:M8:41:VAL:HG11	3:M8:98:PHE:HB2	1.95	0.49
4:N8:41:GLN:NE2	4:N8:101:HIS:O	2.40	0.49
3:T8:3:ASP:HA	3:T8:99:THR:HG22	1.94	0.49
3:V8:112:GLY:O	3:V8:116:THR:OG1	2.26	0.49
3:V8:154:SER:O	3:V8:158:GLN:HG3	2.13	0.49
3:Z8:6:THR:HA	3:Z8:9:VAL:HB	1.94	0.49
3:Z8:139:VAL:O	3:Z8:143:MET:CB	2.60	0.49
1:A2:26:GLU:HB3	1:A2:163:SER:OG	2.13	0.49
1:A2:114:ARG:NH2	1:A2:121:GLU:OE2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I2:109:CYS:O	3:I2:113:LEU:HB3	2.12	0.49
3:K2:40:ALA:HB2	11:K2:202:CYC:HBC1	1.94	0.49
11:P2:202:CYC:NB	11:P2:202:CYC:CMA	2.73	0.49
3:X2:38:SER:HA	3:X2:41:VAL:HB	1.94	0.49
11:Z2:203:CYC:HMA3	11:Z2:203:CYC:HBA2	1.95	0.49
5:03:144:ASN:O	5:03:148:SER:OG	2.28	0.49
5:03:299:SER:OG	8:S3:87:TYR:OH	2.20	0.49
5:13:272:LEU:HB2	7:k3:106:GLU:HG3	1.95	0.49
5:13:563:GLU:HB3	6:N7:30:LEU:HD21	1.93	0.49
5:13:833:SER:OG	5:13:834:MET:N	2.46	0.49
8:M3:157:CYS:O	8:M3:161:SER:OG	2.28	0.49
7:X3:70:GLY:HA2	7:J7:64:ASP:OD2	2.10	0.49
7:w3:79:ALA:HA	1:A4:222:ALA:CB	2.43	0.49
2:B4:99:LEU:HD13	2:B4:149:GLU:OE1	2.11	0.49
2:D4:36:PHE:CD2	2:D4:145:ASP:HB2	2.47	0.49
2:D4:86:ARG:CZ	11:D4:201:CYC:O2A	2.61	0.49
2:D4:149:GLU:OE1	2:D4:153:TYR:CE2	2.65	0.49
3:E4:41:VAL:HG11	3:E4:98:PHE:HB2	1.95	0.49
11:I4:203:CYC:CAC	2:J4:84:CYS:CB	2.86	0.49
3:K4:153:CYS:CB	11:K4:202:CYC:HAC2	2.42	0.49
11:T4:202:CYC:HBA2	11:T4:202:CYC:HMA3	1.94	0.49
2:O5:129:TYR:CE1	11:O5:201:CYC:HBC2	2.48	0.49
3:C6:151:GLY:HA3	11:C6:202:CYC:HMD1	1.87	0.49
3:E6:33:GLU:CB	3:E6:36:LYS:HE2	2.42	0.49
2:H6:28:TYR:CZ	3:I6:35:THR:OG1	2.66	0.49
11:T6:201:CYC:NB	11:T6:201:CYC:CMA	2.72	0.49
8:B7:144:ASP:HA	8:B7:147:ARG:HD2	1.94	0.49
7:V7:76:GLU:O	7:V7:80:THR:OG1	2.31	0.49
6:b7:6:ILE:O	6:b7:28:THR:HA	2.12	0.49
3:I8:3:ASP:HA	3:I8:99:THR:HG22	1.94	0.49
11:L8:202:CYC:HC	11:L8:202:CYC:HMD2	1.77	0.49
3:M8:41:VAL:HG13	3:M8:94:THR:HG23	1.94	0.49
3:M8:72:ASN:HD21	3:M8:122:VAL:HG22	1.77	0.49
2:Q8:19:LEU:N	2:Q8:19:LEU:HD22	2.28	0.49
3:V8:143:MET:CG	3:V8:157:GLN:OE1	2.51	0.49
3:Z8:3:ASP:HA	3:Z8:99:THR:HG22	1.95	0.49
4:a8:251:TYR:O	4:a8:253:ARG:N	2.46	0.49
1:A1:203:PHE:CD1	7:q3:76:GLU:HB3	2.48	0.49
2:D1:152:ASN:HD21	3:M1:42:SER:HB2	1.76	0.49
2:L1:24:LEU:CD1	11:M1:202:CYC:HBB1	2.43	0.49
3:T1:3:ASP:O	3:T1:7:ARG:N	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:71:ARG:HB2	11:I2:201:CYC:HBA2	1.94	0.49
3:I2:79:MET:HG2	11:I2:203:CYC:HMA1	1.95	0.49
3:M2:102:ALA:O	3:M2:106:ASN:ND2	2.44	0.49
3:X2:150:SER:C	11:X2:202:CYC:CMD	2.82	0.49
5:03:832:ASN:ND2	6:U7:35:ASN:CG	2.41	0.49
5:03:833:SER:OG	5:03:834:MET:N	2.46	0.49
5:13:716:PHE:HZ	7:s3:14:GLU:HA	1.78	0.49
7:I3:154:ASP:CG	8:B7:46:ALA:HB1	2.30	0.49
7:s3:21:GLY:HA3	7:X7:3:ILE:HD11	1.95	0.49
3:C4:41:VAL:HG13	3:C4:94:THR:HG23	1.95	0.49
2:D4:21:ASN:OD1	2:L4:152:ASN:CG	2.56	0.49
2:D4:36:PHE:CZ	2:D4:149:GLU:HG3	2.48	0.49
2:F4:19:LEU:CD1	2:F4:23:GLU:CG	2.52	0.49
11:K4:202:CYC:HMD2	11:K4:202:CYC:HC	1.77	0.49
2:O4:83:LYS:HZ2	2:O4:86:ARG:HH12	1.61	0.49
11:Z4:202:CYC:HMA3	11:Z4:202:CYC:HBA2	1.95	0.49
4:a4:251:TYR:O	4:a4:253:ARG:N	2.46	0.49
11:B5:201:CYC:H2D	3:G5:57:ARG:CZ	2.24	0.49
4:N5:81:TYR:OH	4:N5:98:ASN:OD1	2.26	0.49
3:C6:39:ASP:O	3:C6:40:ALA:C	2.55	0.49
3:V6:57:ARG:NH2	2:W6:122:PHE:CZ	2.80	0.49
11:V6:202:CYC:HMA3	11:V6:202:CYC:HBA2	1.94	0.49
8:D7:10:ASN:O	8:D7:14:VAL:HG12	2.12	0.49
7:S7:37:LEU:HD21	8:T7:24:MET:HB3	1.93	0.49
3:E8:41:VAL:HG13	3:E8:94:THR:HG23	1.95	0.49
11:E8:202:CYC:NB	11:E8:202:CYC:CMA	2.73	0.49
3:G8:72:ASN:HD21	3:G8:122:VAL:HG22	1.77	0.49
4:N8:47:TYR:CD2	11:T8:201:CYC:O2A	2.56	0.49
2:O8:111:LEU:HD23	11:O8:201:CYC:CAB	2.18	0.49
3:P8:151:GLY:H	11:P8:202:CYC:C1C	2.25	0.49
2:Q8:22:THR:HG23	2:U8:103:GLY:HA2	1.93	0.49
11:T8:202:CYC:HBD1	11:T8:202:CYC:CHA	2.29	0.49
3:Z8:41:VAL:HG22	3:Z8:97:THR:HG23	1.94	0.49
3:K1:84:ARG:CZ	11:K1:201:CYC:O2A	2.58	0.49
2:Q1:129:TYR:CE1	11:Q1:201:CYC:HBC2	2.48	0.49
1:A2:200:VAL:HG13	7:N3:52:LYS:HA	1.95	0.49
11:R2:201:CYC:HMD2	11:R2:201:CYC:HC	1.77	0.49
5:03:290:ILE:HG12	5:03:296:GLN:HB2	1.94	0.49
8:J3:60:LEU:HD11	11:J3:201:CYC:HBC2	1.95	0.49
8:J3:155:TYR:OH	8:M3:113:LYS:HE3	2.13	0.49
9:Q3:97:LEU:HD21	9:Q3:153:ILE:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d3:1001:CYC:HAA1	8:h3:61:LEU:HD22	1.95	0.49
8:e3:157:CYS:O	8:e3:161:SER:OG	2.28	0.49
7:o3:82:LEU:CB	1:A5:218:PHE:HD2	2.12	0.49
2:H4:98:CYS:SG	2:H4:153:TYR:CD1	3.03	0.49
3:I4:151:GLY:O	11:I4:202:CYC:C1C	2.61	0.49
3:K4:84:ARG:HD2	4:N4:251:TYR:HD1	1.78	0.49
3:K4:151:GLY:HA3	11:K4:202:CYC:HMD2	1.79	0.49
3:R4:72:ASN:HD21	3:R4:122:VAL:HG22	1.77	0.49
2:Y4:137:LYS:C	2:Y4:140:HIS:CD2	2.91	0.49
3:I5:111:ASN:OD1	3:I5:111:ASN:N	2.31	0.49
3:R5:84:ARG:CZ	11:R5:201:CYC:O2A	2.58	0.49
1:A6:109:GLN:NE2	1:A6:115:ASP:OD1	2.46	0.49
3:G6:151:GLY:N	11:G6:201:CYC:OC	2.32	0.49
11:G6:201:CYC:HMA3	11:G6:201:CYC:HBA2	1.95	0.49
3:I6:149:THR:O	11:I6:202:CYC:NC	2.45	0.49
3:P6:79:MET:HG2	11:Q6:201:CYC:HMA1	1.94	0.49
3:T6:34:GLY:O	3:T6:38:SER:OG	2.31	0.49
3:X6:38:SER:HA	3:X6:41:VAL:HB	1.94	0.49
11:X6:202:CYC:HMD2	11:X6:202:CYC:HC	1.77	0.49
7:C7:76:GLU:O	7:C7:80:THR:OG1	2.31	0.49
2:B8:152:ASN:ND2	2:H8:21:ASN:CA	2.73	0.49
3:C8:6:THR:HA	3:C8:9:VAL:HB	1.94	0.49
11:E8:202:CYC:HMD2	11:E8:202:CYC:HC	1.78	0.49
11:E8:203:CYC:O2A	2:F8:86:ARG:CZ	2.61	0.49
2:H8:19:LEU:H	2:H8:19:LEU:CD2	2.16	0.49
3:I8:41:VAL:HG11	3:I8:98:PHE:HB2	1.95	0.49
2:O8:84:CYS:CB	11:O8:201:CYC:CAC	2.86	0.49
11:R8:201:CYC:HMA3	11:R8:201:CYC:HBA2	1.95	0.49
2:W8:150:THR:O	2:W8:154:ILE:HG13	2.13	0.49
3:Z8:72:ASN:HD21	3:Z8:122:VAL:HG22	1.77	0.49
2:B1:129:TYR:CE1	11:B1:201:CYC:HBC2	2.48	0.48
11:C1:202:CYC:HBC2	2:D1:129:TYR:CE1	2.48	0.48
3:I1:84:ARG:CZ	11:I1:201:CYC:O2A	2.58	0.48
2:Q1:24:LEU:CD1	11:R1:202:CYC:HBB2	2.43	0.48
2:S1:129:TYR:CE1	11:S1:201:CYC:HBC2	2.48	0.48
3:K2:153:CYS:SG	11:K2:202:CYC:HBC2	2.53	0.48
3:V2:53:THR:O	3:V2:57:ARG:HB2	2.13	0.48
3:X2:151:GLY:H	11:X2:202:CYC:HMD2	1.71	0.48
5:03:720:ASP:HB3	8:R7:107:ARG:HE	1.77	0.48
8:S3:83:ARG:CZ	11:S3:1001:CYC:O2A	2.61	0.48
8:p3:83:ARG:CZ	11:p3:1001:CYC:O2A	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E4:202:CYC:HBA2	11:E4:202:CYC:HMA3	1.94	0.48
11:E4:203:CYC:O2A	2:F4:86:ARG:CZ	2.61	0.48
3:G4:139:VAL:O	3:G4:142:VAL:CG1	2.52	0.48
3:I4:51:ILE:CG1	3:I4:141:ILE:HD11	2.43	0.48
3:K4:41:VAL:HG13	3:K4:94:THR:HG23	1.95	0.48
2:S4:150:THR:O	2:S4:154:ILE:HG13	2.13	0.48
2:U4:86:ARG:CZ	11:U4:201:CYC:O2A	2.61	0.48
2:U4:140:HIS:CE1	2:U4:142:LEU:H	2.31	0.48
2:W4:150:THR:O	2:W4:154:ILE:HG13	2.12	0.48
11:X4:202:CYC:HBA2	11:X4:202:CYC:HMA3	1.95	0.48
3:Z4:72:ASN:HD21	3:Z4:122:VAL:HG22	1.77	0.48
3:V5:37:ARG:HD2	3:V5:156:LEU:HD21	1.95	0.48
11:R6:202:CYC:HAC1	2:S6:84:CYS:CA	2.31	0.48
3:T6:102:ALA:O	3:T6:106:ASN:ND2	2.44	0.48
3:T6:153:CYS:CB	11:T6:201:CYC:HAC2	2.43	0.48
3:X6:102:ALA:O	3:X6:106:ASN:ND2	2.44	0.48
8:B7:87:TYR:HD1	11:B7:1001:CYC:HBB3	1.77	0.48
7:E7:76:GLU:O	7:E7:80:THR:OG1	2.31	0.48
8:F7:7:SER:O	8:F7:11:SER:OG	2.29	0.48
2:B8:22:THR:CG2	2:H8:103:GLY:HA2	2.41	0.48
11:F8:201:CYC:CMD	3:G8:151:GLY:CA	2.88	0.48
2:J8:24:LEU:CG	3:K8:42:SER:HB3	2.43	0.48
3:M8:3:ASP:HA	3:M8:99:THR:HG22	1.94	0.48
2:O8:25:GLN:NE2	2:W8:33:GLN:CB	2.77	0.48
2:S8:17:ARG:NH1	2:S8:17:ARG:HB3	2.27	0.48
3:X8:72:ASN:HD21	3:X8:122:VAL:HG22	1.77	0.48
2:H1:129:TYR:CE1	11:H1:201:CYC:HBC2	2.48	0.48
3:R1:3:ASP:O	3:R1:7:ARG:N	2.42	0.48
3:E2:33:GLU:CB	3:E2:36:LYS:HE2	2.42	0.48
11:R2:201:CYC:CMD	11:R2:201:CYC:HC	2.24	0.48
3:T2:153:CYS:SG	11:T2:202:CYC:CAC	3.01	0.48
11:V2:202:CYC:HMA3	11:V2:202:CYC:HBA2	1.94	0.48
5:13:182:ILE:HG13	5:13:188:ILE:HD11	1.94	0.48
7:d3:52:LYS:HA	1:A6:200:VAL:HG13	1.95	0.48
9:g3:97:LEU:HD21	9:g3:153:ILE:HA	1.93	0.48
7:o3:83:ARG:HD3	1:A5:215:PRO:N	2.28	0.48
3:E4:41:VAL:HG13	3:E4:94:THR:HG23	1.95	0.48
11:F4:201:CYC:HBA2	11:F4:201:CYC:HMA3	1.95	0.48
3:P4:47:ASN:HB2	3:P4:141:ILE:HD13	1.94	0.48
11:P4:203:CYC:CGA	2:Q4:83:LYS:HZ2	2.21	0.48
3:R4:3:ASP:HA	3:R4:99:THR:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z4:139:VAL:O	3:Z4:143:MET:CB	2.60	0.48
3:P5:3:ASP:O	3:P5:7:ARG:N	2.42	0.48
2:Q5:129:TYR:CE1	11:Q5:201:CYC:HBC2	2.48	0.48
3:C6:57:ARG:NH1	11:C6:203:CYC:CGA	2.50	0.48
3:C6:102:ALA:O	3:C6:106:ASN:ND2	2.44	0.48
11:K6:202:CYC:HMA3	11:K6:202:CYC:HBA2	1.95	0.48
3:T6:150:SER:O	11:T6:201:CYC:HMD2	2.09	0.48
11:X6:202:CYC:HBA2	11:X6:202:CYC:HMA3	1.95	0.48
8:T7:110:ASN:HB3	6:U7:44:MET:HE1	1.95	0.48
8:T7:144:ASP:HA	8:T7:147:ARG:HD2	1.94	0.48
2:D8:26:TYR:OH	2:L8:4:PRO:CB	2.61	0.48
2:J8:140:HIS:CE1	2:J8:142:LEU:H	2.30	0.48
3:K8:41:VAL:HG11	3:K8:98:PHE:HB2	1.95	0.48
3:K8:155:SER:C	3:K8:158:GLN:HB2	2.38	0.48
2:O8:140:HIS:HE1	2:O8:142:LEU:HB2	1.78	0.48
3:P8:41:VAL:HG13	3:P8:94:THR:HG23	1.95	0.48
3:R8:72:ASN:HD21	3:R8:122:VAL:HG22	1.77	0.48
2:S8:22:THR:CG2	2:Y8:103:GLY:CA	2.91	0.48
11:V8:202:CYC:HMD2	11:V8:202:CYC:HC	1.77	0.48
11:V8:202:CYC:CMA	11:V8:202:CYC:HBA2	2.44	0.48
11:X8:202:CYC:HBA2	11:X8:202:CYC:HMA3	1.95	0.48
1:A1:89:THR:O	1:A1:93:SER:CB	2.60	0.48
2:F1:118:ILE:HA	2:F1:121:THR:HG22	1.96	0.48
3:G1:3:ASP:O	3:G1:7:ARG:N	2.42	0.48
2:Q1:24:LEU:CD1	11:R1:202:CYC:HBB1	2.43	0.48
3:K2:37:ARG:CA	3:K2:156:LEU:HD11	2.30	0.48
2:L2:73:ASN:OD1	2:L2:73:ASN:N	2.42	0.48
3:P2:79:MET:HG2	11:Q2:201:CYC:HMA1	1.94	0.48
5:03:524:SER:C	7:C7:106:GLU:OE2	2.56	0.48
7:X3:64:ASP:HB3	7:J7:67:SER:CB	2.42	0.48
7:d3:82:LEU:HB2	1:A6:203:PHE:CG	2.46	0.48
8:v3:67:ARG:HD2	1:A4:211:GLN:OE1	2.12	0.48
1:A4:146:GLU:OE2	1:A4:160:ARG:NH1	2.44	0.48
3:C4:3:ASP:HA	3:C4:99:THR:HG22	1.94	0.48
3:E4:156:LEU:HD23	3:E4:156:LEU:O	2.13	0.48
11:F4:201:CYC:CMA	2:J4:145:ASP:OD2	2.59	0.48
3:I4:3:ASP:HA	3:I4:99:THR:HG22	1.94	0.48
3:I4:41:VAL:HG13	3:I4:94:THR:HG23	1.95	0.48
11:I4:202:CYC:HBA2	11:I4:202:CYC:HMA3	1.95	0.48
2:J4:24:LEU:CD1	3:K4:39:ASP:CA	2.89	0.48
3:K4:6:THR:HA	3:K4:9:VAL:HB	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M4:41:VAL:HG13	3:M4:94:THR:HG23	1.94	0.48
3:P4:3:ASP:HA	3:P4:99:THR:HG22	1.95	0.48
3:V4:40:ALA:HB3	3:V4:156:LEU:HD21	1.95	0.48
11:V4:202:CYC:HMA3	11:V4:202:CYC:HBA2	1.94	0.48
11:C5:202:CYC:HBC2	2:D5:129:TYR:CE1	2.48	0.48
2:J5:129:TYR:CE1	11:J5:201:CYC:HBC2	2.48	0.48
2:Q5:118:ILE:HA	2:Q5:121:THR:HG22	1.96	0.48
11:T5:201:CYC:HAB2	2:Y5:149:GLU:OE2	2.12	0.48
11:E6:202:CYC:HBA2	11:E6:202:CYC:HMA3	1.94	0.48
2:D8:21:ASN:OD1	2:L8:152:ASN:CG	2.56	0.48
3:E8:82:CYS:HG	11:E8:201:CYC:CAC	2.07	0.48
11:I8:202:CYC:HBA2	11:I8:202:CYC:HMA3	1.95	0.48
2:J8:24:LEU:HD21	3:K8:42:SER:HB2	1.88	0.48
2:L8:150:THR:O	2:L8:153:TYR:HB2	2.12	0.48
3:P8:47:ASN:HB2	3:P8:141:ILE:HD13	1.94	0.48
11:T8:202:CYC:HBA2	11:T8:202:CYC:HMA3	1.95	0.48
3:V8:138:ALA:C	3:V8:142:VAL:HG12	2.32	0.48
4:N1:117:LEU:HD22	11:P1:201:CYC:HMA2	1.96	0.48
3:P1:37:ARG:HD2	3:P1:156:LEU:HD21	1.95	0.48
3:T2:37:ARG:HG3	3:T2:156:LEU:CD2	2.44	0.48
3:V2:57:ARG:CZ	11:W2:201:CYC:O1D	2.60	0.48
11:X2:202:CYC:HBA2	11:X2:202:CYC:HMA3	1.95	0.48
5:03:285:ILE:HD11	5:03:316:VAL:HG22	1.95	0.48
5:13:489:ASN:ND2	8:a3:83:ARG:NH1	2.60	0.48
7:I3:30:VAL:HG13	8:J3:31:PHE:O	2.14	0.48
7:I3:151:ALA:CB	7:A7:20:PRO:HG3	2.41	0.48
8:W3:83:ARG:CZ	11:W3:1001:CYC:O2A	2.61	0.48
7:Z3:16:ARG:O	8:a3:90:ARG:HD2	2.13	0.48
7:q3:25:ARG:C	7:q3:25:ARG:CD	2.86	0.48
7:w3:15:ALA:HA	8:x3:90:ARG:CZ	2.43	0.48
2:B4:26:TYR:CD2	2:B4:26:TYR:N	2.81	0.48
2:B4:151:ASN:N	2:B4:151:ASN:ND2	2.60	0.48
3:C4:57:ARG:HH12	2:D4:72:ASN:ND2	2.08	0.48
3:G4:3:ASP:HA	3:G4:99:THR:HG22	1.94	0.48
11:I4:202:CYC:NB	11:I4:202:CYC:CMA	2.73	0.48
2:J4:24:LEU:HD12	3:K4:39:ASP:CB	2.42	0.48
2:J4:28:TYR:HE1	3:K4:39:ASP:HB2	1.78	0.48
11:P4:203:CYC:O2A	2:Q4:86:ARG:CZ	2.61	0.48
2:U4:17:ARG:NH1	2:U4:17:ARG:HB3	2.29	0.48
2:U4:151:ASN:N	2:U4:151:ASN:ND2	2.61	0.48
2:Y4:83:LYS:HZ2	2:Y4:86:ARG:HH12	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D5:2:LYS:H	2:D5:105:GLY:HA3	1.78	0.48
3:E5:3:ASP:O	3:E5:7:ARG:N	2.42	0.48
2:J5:118:ILE:HA	2:J5:121:THR:HG22	1.96	0.48
11:E6:202:CYC:HBD1	11:E6:202:CYC:CHA	2.29	0.48
3:K6:40:ALA:HB2	11:K6:202:CYC:HBC1	1.94	0.48
4:N6:69:ARG:HH21	4:N6:134:ASP:HA	1.77	0.48
4:N6:79:GLU:HG2	2:W6:15:GLN:HG2	1.95	0.48
8:F7:144:ASP:HA	8:F7:147:ARG:HD2	1.94	0.48
8:I7:144:ASP:HA	8:I7:147:ARG:HD2	1.94	0.48
7:L7:76:GLU:O	7:L7:80:THR:OG1	2.31	0.48
8:Y7:7:SER:O	8:Y7:11:SER:OG	2.29	0.48
3:C8:3:ASP:HA	3:C8:99:THR:HG22	1.94	0.48
11:E8:202:CYC:CMA	11:E8:202:CYC:HBA2	2.44	0.48
3:K8:139:VAL:O	3:K8:142:VAL:HG12	2.04	0.48
3:K8:139:VAL:C	3:K8:143:MET:H	2.07	0.48
3:K8:153:CYS:CB	11:K8:202:CYC:HAC2	2.42	0.48
2:Q8:36:PHE:CE1	2:Q8:145:ASP:HB2	2.48	0.48
3:R8:41:VAL:HG13	3:R8:94:THR:HG23	1.94	0.48
2:U8:140:HIS:CE1	2:U8:142:LEU:H	2.31	0.48
1:A1:58:PHE:HB2	2:B1:117:GLU:OE2	2.12	0.48
1:A1:215:PRO:CG	1:A8:203:PHE:HD1	2.26	0.48
3:I1:37:ARG:HD2	3:I1:156:LEU:HD21	1.95	0.48
2:J1:118:ILE:HA	2:J1:121:THR:HG22	1.95	0.48
11:X1:203:CYC:HBC2	2:Y1:129:TYR:CE1	2.48	0.48
1:A2:207:ASP:CG	8:O3:17:LYS:CG	2.76	0.48
11:E2:202:CYC:HC	11:E2:202:CYC:HMD2	1.78	0.48
11:K2:202:CYC:HMA3	11:K2:202:CYC:HBA2	1.95	0.48
11:T2:202:CYC:HMD2	11:T2:202:CYC:HC	1.78	0.48
11:X2:202:CYC:HMD2	11:X2:202:CYC:HC	1.77	0.48
5:03:274:LYS:HB3	5:03:306:LYS:HG2	1.94	0.48
5:03:523:VAL:CA	7:C7:106:GLU:OE2	2.62	0.48
5:13:238:GLN:NE2	7:f3:14:GLU:O	2.46	0.48
5:13:477:ARG:NE	8:a3:107:ARG:HH11	2.11	0.48
1:A4:196:TRP:HZ2	7:X7:63:PRO:CG	2.25	0.48
3:K4:153:CYS:SG	11:K4:202:CYC:HAC2	2.52	0.48
3:K4:153:CYS:HB2	11:K4:202:CYC:CAC	2.40	0.48
11:P4:202:CYC:HMA3	11:P4:202:CYC:HBA2	1.95	0.48
2:S4:22:THR:HG23	2:Y4:102:GLY:O	2.14	0.48
3:T4:3:ASP:HA	3:T4:99:THR:HG22	1.94	0.48
3:T4:41:VAL:HG11	3:T4:98:PHE:HB2	1.95	0.48
3:T4:72:ASN:HD21	3:T4:122:VAL:HG22	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S5:118:ILE:HA	2:S5:121:THR:HG22	1.96	0.48
2:U5:24:LEU:HD13	11:U5:202:CYC:HBB2	1.94	0.48
11:V5:202:CYC:HBC2	2:W5:129:TYR:CE1	2.48	0.48
11:E6:202:CYC:CMA	11:E6:202:CYC:HBA2	2.44	0.48
11:P6:202:CYC:HMA3	11:P6:202:CYC:HBA2	1.95	0.48
3:T6:153:CYS:SG	11:T6:201:CYC:CAC	3.01	0.48
8:M7:144:ASP:HA	8:M7:147:ARG:HD2	1.94	0.48
7:O7:107:ILE:HG23	8:T7:74:THR:HG22	1.96	0.48
7:Z7:76:GLU:O	7:Z7:80:THR:OG1	2.31	0.48
1:A8:165:ALA:HB3	3:E8:77:ARG:HH11	1.78	0.48
3:C8:41:VAL:HG11	3:C8:98:PHE:HB2	1.95	0.48
11:C8:201:CYC:HMA3	11:C8:201:CYC:HBA2	1.95	0.48
3:G8:41:VAL:HG11	3:G8:98:PHE:HB2	1.95	0.48
11:P8:202:CYC:HMA3	11:P8:202:CYC:HBA2	1.95	0.48
2:Q8:24:LEU:HD11	3:R8:42:SER:HB2	1.94	0.48
2:S8:83:LYS:NZ	11:S8:201:CYC:H2A	2.08	0.48
2:S8:148:THR:HG1	11:Z8:202:CYC:HAC1	1.78	0.48
3:T8:72:ASN:HD21	3:T8:122:VAL:HG22	1.77	0.48
11:T8:202:CYC:HMD2	11:T8:202:CYC:HC	1.78	0.48
2:W8:151:ASN:N	2:W8:151:ASN:ND2	2.60	0.48
3:X8:142:VAL:CG2	11:X8:202:CYC:CBC	2.92	0.48
2:Q1:118:ILE:HA	2:Q1:121:THR:HG22	1.96	0.48
3:V1:37:ARG:HD2	3:V1:156:LEU:HD21	1.95	0.48
1:A2:109:GLN:NE2	1:A2:115:ASP:OD1	2.46	0.48
3:C2:151:GLY:HA3	11:C2:202:CYC:HMD1	1.87	0.48
3:M2:110:LEU:CD2	3:M2:170:ALA:HB3	2.34	0.48
11:M2:202:CYC:HBA2	11:M2:202:CYC:HMA3	1.95	0.48
11:P2:202:CYC:HMD2	11:P2:202:CYC:HC	1.77	0.48
11:T2:202:CYC:HBA2	11:T2:202:CYC:HMA3	1.95	0.48
3:X2:34:GLY:O	3:X2:38:SER:OG	2.31	0.48
7:u3:3:ILE:HD12	7:O7:25:ARG:CZ	2.36	0.48
7:w3:82:LEU:HB2	1:A4:218:PHE:HD1	1.76	0.48
3:E4:3:ASP:HA	3:E4:99:THR:HG22	1.95	0.48
11:E4:202:CYC:CMA	11:E4:202:CYC:HBA2	2.44	0.48
2:J4:140:HIS:CE1	2:J4:142:LEU:CB	2.91	0.48
11:K4:202:CYC:HMA3	11:K4:202:CYC:HBA2	1.95	0.48
2:L4:86:ARG:CZ	11:L4:201:CYC:O2A	2.61	0.48
2:Q4:19:LEU:N	2:Q4:19:LEU:HD22	2.28	0.48
2:U4:142:LEU:CB	2:U4:147:ALA:HB2	2.43	0.48
3:X4:36:LYS:C	3:X4:156:LEU:HD11	2.39	0.48
2:Y4:149:GLU:CA	2:Y4:153:TYR:CD2	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z4:143:MET:HE1	3:Z4:153:CYS:CB	2.39	0.48
1:A5:172:ILE:HG23	3:G5:111:ASN:HB2	1.93	0.48
11:B5:201:CYC:O2D	3:G5:57:ARG:NH1	2.47	0.48
3:E5:37:ARG:HD2	3:E5:156:LEU:HD21	1.95	0.48
3:E5:57:ARG:HH22	11:F5:201:CYC:CGD	2.21	0.48
2:F5:118:ILE:HA	2:F5:121:THR:HG22	1.96	0.48
2:O5:73:ASN:OD1	2:O5:73:ASN:N	2.28	0.48
3:R5:3:ASP:O	3:R5:7:ARG:N	2.42	0.48
2:S5:129:TYR:CE1	11:S5:201:CYC:HBC2	2.48	0.48
2:F6:6:THR:HG23	3:G6:1:MET:SD	2.54	0.48
2:U6:84:CYS:CA	11:U6:201:CYC:HAC1	2.31	0.48
3:Z6:102:ALA:O	3:Z6:106:ASN:ND2	2.44	0.48
11:Z6:202:CYC:HMA3	11:Z6:202:CYC:HBA2	1.95	0.48
11:R7:1001:CYC:HBB2	6:U7:20:ARG:HE	1.78	0.48
2:F8:150:THR:HG21	2:F8:154:ILE:HD12	1.81	0.48
3:K8:140:ALA:HA	3:K8:143:MET:CB	2.43	0.48
11:L8:202:CYC:HBA2	11:L8:202:CYC:HMA3	1.95	0.48
4:N8:49:MET:HE1	3:T8:84:ARG:CZ	2.44	0.48
4:N8:250:ARG:HD3	4:N8:250:ARG:HA	1.51	0.48
3:P8:142:VAL:HG22	11:P8:202:CYC:HBC1	1.94	0.48
11:P8:203:CYC:O2A	2:Q8:86:ARG:CZ	2.61	0.48
2:U8:17:ARG:NH1	2:U8:17:ARG:HB3	2.29	0.48
2:U8:151:ASN:N	2:U8:151:ASN:ND2	2.61	0.48
2:D1:33:GLN:HB2	2:L1:25:GLN:HG2	1.96	0.48
3:E1:37:ARG:HD2	3:E1:156:LEU:HD21	1.96	0.48
2:L1:129:TYR:CE1	11:L1:201:CYC:HBC2	2.48	0.48
3:T1:37:ARG:HD2	3:T1:156:LEU:HD21	1.96	0.48
2:Y1:118:ILE:HA	2:Y1:121:THR:HG22	1.96	0.48
1:A2:213:GLY:CA	8:H3:67:ARG:CD	2.91	0.48
11:C2:202:CYC:NB	11:C2:202:CYC:CMA	2.73	0.48
11:E2:202:CYC:CMA	11:E2:202:CYC:HBA2	2.44	0.48
4:N2:206:GLY:N	3:T2:111:ASN:HA	2.22	0.48
3:Z2:57:ARG:HH22	11:Z2:201:CYC:CGD	2.25	0.48
5:03:73:ASN:OD1	5:03:73:ASN:N	2.47	0.48
5:03:442:VAL:CG2	5:03:608:ARG:HD2	2.44	0.48
5:13:525:PHE:CE2	7:J7:5:THR:OG1	2.66	0.48
7:I3:154:ASP:OD1	8:B7:46:ALA:CB	2.57	0.48
8:J3:46:ALA:CB	7:A7:154:ASP:OD1	2.56	0.48
7:T3:90:ARG:HD2	8:U3:17:LYS:C	2.38	0.48
7:d3:124:ASP:OD1	7:d3:124:ASP:N	2.32	0.48
2:D4:83:LYS:HZ2	11:D4:201:CYC:CGA	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F4:24:LEU:HD12	11:F4:201:CYC:C4B	2.25	0.48
3:I4:41:VAL:HG11	3:I4:98:PHE:HB2	1.94	0.48
3:K4:155:SER:C	3:K4:158:GLN:HB2	2.38	0.48
2:L4:84:CYS:CB	11:L4:201:CYC:CAC	2.86	0.48
11:L4:202:CYC:HBA2	11:L4:202:CYC:HMA3	1.95	0.48
2:O4:32:ARG:NH1	11:X4:202:CYC:CBA	2.75	0.48
2:Q4:24:LEU:HD11	3:R4:42:SER:HB2	1.94	0.48
3:R4:41:VAL:HG13	3:R4:94:THR:HG23	1.95	0.48
3:T4:149:THR:OG1	11:T4:202:CYC:CAD	2.62	0.48
3:V4:72:ASN:HD21	3:V4:122:VAL:HG22	1.77	0.48
3:X4:3:ASP:HA	3:X4:99:THR:HG22	1.94	0.48
3:X4:142:VAL:CG2	11:X4:202:CYC:CBC	2.92	0.48
3:K5:84:ARG:CZ	11:K5:201:CYC:O2A	2.58	0.48
2:U5:84:CYS:SG	11:U5:201:CYC:C2C	2.89	0.48
3:X5:37:ARG:HD2	3:X5:156:LEU:HD21	1.96	0.48
3:G6:151:GLY:H	11:G6:201:CYC:C1C	2.23	0.48
3:K6:35:THR:HA	3:K6:38:SER:OG	2.14	0.48
3:X6:150:SER:C	11:X6:202:CYC:CMD	2.82	0.48
8:B7:7:SER:O	8:B7:11:SER:OG	2.29	0.48
7:E7:115:MET:HB2	7:E7:115:MET:HE3	1.73	0.48
2:D8:8:ALA:HB1	2:D8:23:GLU:CG	2.34	0.48
2:L8:99:LEU:CD1	2:L8:149:GLU:CD	2.87	0.48
3:T8:41:VAL:HG11	3:T8:98:PHE:HB2	1.95	0.48
11:T8:202:CYC:CMA	11:T8:202:CYC:HBA2	2.44	0.48
2:U8:142:LEU:CB	2:U8:147:ALA:HB2	2.43	0.48
3:V8:72:ASN:HD21	3:V8:122:VAL:HG22	1.77	0.48
11:V8:202:CYC:HBD1	11:V8:202:CYC:CHA	2.28	0.48
2:W8:36:PHE:HZ	2:W8:149:GLU:OE2	1.88	0.48
3:Z8:143:MET:HE1	3:Z8:153:CYS:CB	2.39	0.48
1:A1:17:VAL:HB	3:E1:84:ARG:HD2	1.94	0.48
2:S1:118:ILE:HA	2:S1:121:THR:HG22	1.96	0.48
11:G2:201:CYC:HBA2	11:G2:201:CYC:HMA3	1.95	0.48
3:I2:40:ALA:O	3:I2:44:MET:HB2	2.14	0.48
3:K2:102:ALA:O	3:K2:106:ASN:ND2	2.44	0.48
3:K2:119:ALA:HA	4:N2:212:ALA:HB1	1.95	0.48
4:N2:42:VAL:HG11	4:N2:75:VAL:HG13	1.96	0.48
5:03:175:THR:HG21	5:03:223:LEU:HD23	1.96	0.48
7:K3:70:GLY:N	7:A7:64:ASP:CG	2.70	0.48
7:o3:5:THR:OG1	8:p3:3:ASP:OD2	2.32	0.48
7:q3:51:ILE:CD1	1:A8:218:PHE:CZ	2.84	0.48
7:q3:113:ARG:CZ	7:V7:117:LYS:HD3	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:r3:83:ARG:CZ	11:r3:1001:CYC:O2A	2.61	0.48
1:A4:214:ASP:CA	1:A4:217:LEU:HD13	2.44	0.48
11:F4:201:CYC:CMA	11:F4:201:CYC:HBA2	2.44	0.48
3:K4:140:ALA:HA	3:K4:143:MET:CB	2.43	0.48
4:N4:248:THR:N	4:N4:249:PRO:CD	2.77	0.48
2:S4:148:THR:CG2	11:Z4:202:CYC:CAC	2.85	0.48
11:V4:202:CYC:CMA	11:V4:202:CYC:HBA2	2.44	0.48
11:Z4:202:CYC:HC	11:Z4:202:CYC:HMD2	1.77	0.48
3:I5:3:ASP:O	3:I5:7:ARG:N	2.42	0.48
4:N5:117:LEU:HD22	11:P5:201:CYC:HMA2	1.95	0.48
4:N5:155:VAL:HG21	3:R5:84:ARG:HD2	1.95	0.48
11:U5:201:CYC:O2D	3:Z5:57:ARG:NH2	2.44	0.48
2:Y5:118:ILE:HA	2:Y5:121:THR:HG22	1.96	0.48
11:E6:202:CYC:HC	11:E6:202:CYC:HMD2	1.78	0.48
2:Q6:28:TYR:OH	11:R6:201:CYC:C3A	2.62	0.48
6:G7:8:ALA:HA	6:G7:51:VAL:HG23	1.96	0.48
6:N7:39:GLU:HA	6:N7:42:ARG:HG3	1.95	0.48
8:R7:144:ASP:HA	8:R7:147:ARG:HD2	1.94	0.48
8:a7:144:ASP:HA	8:a7:147:ARG:HD2	1.94	0.48
11:F8:201:CYC:H2C	3:G8:153:CYS:SG	2.54	0.48
3:G8:41:VAL:HG13	3:G8:94:THR:HG23	1.94	0.48
2:J8:28:TYR:HE1	3:K8:39:ASP:HB2	1.78	0.48
11:K8:202:CYC:HMD2	11:K8:202:CYC:HC	1.77	0.48
11:K8:202:CYC:HBA2	11:K8:202:CYC:HMA3	1.95	0.48
2:Q8:24:LEU:HD12	11:R8:201:CYC:CBB	2.44	0.48
3:R8:3:ASP:HA	3:R8:99:THR:HG22	1.95	0.48
3:X8:3:ASP:HA	3:X8:99:THR:HG22	1.94	0.48
2:D1:118:ILE:HA	2:D1:121:THR:HG22	1.96	0.48
2:J1:138:ALA:HB3	2:B8:64:PRO:HB2	1.81	0.48
2:O1:118:ILE:HA	2:O1:121:THR:HG22	1.96	0.48
3:T1:162:LEU:O	3:T1:166:THR:OG1	2.32	0.48
3:M2:33:GLU:CB	3:M2:36:LYS:HE2	2.42	0.48
11:P2:202:CYC:CMA	11:P2:202:CYC:HBA2	2.44	0.48
11:T2:202:CYC:CMA	11:T2:202:CYC:HBA2	2.44	0.48
5:13:73:ASN:OD1	5:13:73:ASN:N	2.47	0.48
5:13:828:GLY:O	6:b7:38:ARG:NH2	2.46	0.48
7:I3:70:GLY:HA3	7:C7:64:ASP:OD1	2.13	0.48
8:W3:157:CYS:O	8:W3:161:SER:OG	2.28	0.48
7:Z3:81:CYS:SG	11:Z3:1001:CYC:HAC2	2.54	0.48
8:p3:157:CYS:O	8:p3:161:SER:OG	2.28	0.48
7:u3:3:ILE:HD11	7:O7:25:ARG:HH12	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q4:159:ASN:ND2	3:V4:46:ASN:O	2.43	0.48
3:T4:6:THR:HA	3:T4:9:VAL:HB	1.94	0.48
3:X4:37:ARG:HH11	3:X4:100:GLY:HA2	1.72	0.48
3:X4:143:MET:HE1	3:X4:153:CYS:CB	2.39	0.48
3:G5:37:ARG:HD2	3:G5:156:LEU:HD21	1.96	0.48
3:P5:162:LEU:O	3:P5:166:THR:OG1	2.32	0.48
3:T5:151:GLY:CA	11:T5:201:CYC:CMD	2.78	0.48
2:U5:118:ILE:HA	2:U5:121:THR:HG22	1.95	0.48
1:A6:198:ASN:HD21	1:A6:202:ARG:HH11	1.61	0.48
11:I6:202:CYC:HBA2	11:I6:202:CYC:HMA3	1.95	0.48
11:M6:202:CYC:HMA3	11:M6:202:CYC:HBA2	1.95	0.48
3:P6:150:SER:HA	11:P6:202:CYC:OC	2.14	0.48
11:F7:1001:CYC:O1A	6:G7:33:TYR:OH	2.32	0.48
7:O7:113:ARG:O	7:O7:117:LYS:HB2	2.13	0.48
2:D8:86:ARG:CZ	11:D8:201:CYC:O2A	2.61	0.48
3:I8:41:VAL:HG13	3:I8:94:THR:HG23	1.94	0.48
3:K8:6:THR:HA	3:K8:9:VAL:HB	1.94	0.48
4:N8:248:THR:N	4:N8:249:PRO:CD	2.77	0.48
3:P8:3:ASP:HA	3:P8:99:THR:HG22	1.95	0.48
11:X8:202:CYC:HBA2	11:X8:202:CYC:CMA	2.44	0.48
2:Y8:2:LYS:HZ2	2:Y8:7:GLU:HG3	1.78	0.48
2:Y8:137:LYS:C	2:Y8:140:HIS:CD2	2.91	0.48
11:B1:201:CYC:O2D	3:G1:57:ARG:NH1	2.47	0.48
3:C1:37:ARG:HD2	3:C1:156:LEU:HD21	1.95	0.48
2:H1:118:ILE:HA	2:H1:121:THR:HG22	1.96	0.48
3:M1:37:ARG:HD2	3:M1:156:LEU:HD21	1.95	0.48
2:U1:129:TYR:CE1	11:U1:201:CYC:HBC2	2.48	0.48
3:V1:57:ARG:HE	3:V1:57:ARG:HB2	1.46	0.48
11:C2:202:CYC:CMA	11:C2:202:CYC:HBA2	2.44	0.48
2:F2:6:THR:HG23	3:G2:1:MET:SD	2.54	0.48
4:N2:3:VAL:HG13	4:N2:153:TYR:HB3	1.96	0.48
3:T2:153:CYS:CB	11:T2:202:CYC:HAC2	2.43	0.48
3:V2:33:GLU:CB	3:V2:36:LYS:NZ	2.68	0.48
5:03:563:GLU:O	6:G7:29:LYS:HB2	2.13	0.48
5:03:744:GLU:HG3	7:u3:114:GLU:OE2	2.14	0.48
5:03:768:GLU:OE2	6:U7:29:LYS:HD2	2.14	0.48
5:13:243:ASP:OD1	5:13:243:ASP:N	2.46	0.48
10:V3:81:CYS:SG	11:V3:201:CYC:HBC1	2.46	0.48
8:j3:3:ASP:OD2	8:j3:3:ASP:N	2.37	0.48
2:B4:152:ASN:ND2	2:H4:21:ASN:HB2	2.29	0.48
2:D4:140:HIS:ND1	2:D4:142:LEU:CB	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L4:28:TYR:OH	11:L4:202:CYC:CHB	2.62	0.48
2:O4:25:GLN:NE2	2:W4:33:GLN:CB	2.77	0.48
2:O4:140:HIS:HE1	2:O4:142:LEU:HB2	1.78	0.48
3:P4:41:VAL:HG11	3:P4:98:PHE:HB2	1.95	0.48
2:Q4:36:PHE:CE1	2:Q4:145:ASP:HB2	2.48	0.48
11:T4:202:CYC:HMD2	11:T4:202:CYC:HC	1.78	0.48
3:Z4:41:VAL:HG22	3:Z4:97:THR:HG23	1.95	0.48
3:Z4:47:ASN:HB2	3:Z4:141:ILE:HD13	1.95	0.48
2:L5:45:THR:HG22	3:M5:18:PHE:HB3	1.96	0.48
3:R5:162:LEU:O	3:R5:166:THR:OG1	2.32	0.48
11:G6:201:CYC:CMA	11:G6:201:CYC:HBA2	2.44	0.48
11:V6:202:CYC:CMA	11:V6:202:CYC:HBA2	2.44	0.48
3:X6:34:GLY:O	3:X6:38:SER:OG	2.31	0.48
8:K7:7:SER:O	8:K7:11:SER:OG	2.29	0.48
2:B8:26:TYR:N	2:B8:26:TYR:CD2	2.81	0.48
11:F8:201:CYC:HBA2	11:F8:201:CYC:HMA3	1.95	0.48
3:I8:51:ILE:CG1	3:I8:141:ILE:HD11	2.43	0.48
2:J8:150:THR:HG22	2:J8:154:ILE:CD1	2.44	0.48
11:L8:202:CYC:CMA	11:L8:202:CYC:HBA2	2.44	0.48
11:R8:201:CYC:HC	11:R8:201:CYC:HMD2	1.77	0.48
3:T8:139:VAL:HA	3:T8:142:VAL:HG11	1.88	0.48
2:U8:93:ARG:NH2	3:V8:16:GLY:O	2.47	0.48
3:X8:143:MET:HE2	3:X8:143:MET:CA	2.16	0.48
1:A1:203:PHE:CE2	1:A8:215:PRO:HB2	2.49	0.47
2:B1:49:ASP:N	2:B1:49:ASP:OD2	2.47	0.47
3:C1:162:LEU:O	3:C1:166:THR:OG1	2.32	0.47
3:I1:3:ASP:O	3:I1:7:ARG:N	2.42	0.47
3:G2:57:ARG:HD3	3:G2:57:ARG:O	2.13	0.47
11:M2:202:CYC:CMA	11:M2:202:CYC:HBA2	2.44	0.47
3:R2:36:LYS:NZ	3:R2:36:LYS:HB2	2.29	0.47
3:R2:36:LYS:CD	3:R2:152:ASP:O	2.56	0.47
3:T2:102:ALA:O	3:T2:106:ASN:ND2	2.44	0.47
3:V2:84:ARG:CD	3:V2:88:ILE:CD1	2.89	0.47
5:03:522:ASN:N	5:03:522:ASN:ND2	2.60	0.47
7:d3:48:GLU:OE1	1:A6:208:ARG:NH1	2.46	0.47
7:o3:76:GLU:HA	1:A5:219:LEU:HD13	1.96	0.47
8:v3:62:TYR:CE1	1:A5:203:PHE:CB	2.95	0.47
7:y3:81:CYS:SG	11:y3:1001:CYC:HAC2	2.54	0.47
8:z3:62:TYR:OH	1:A8:203:PHE:CB	2.56	0.47
3:G4:41:VAL:HG13	3:G4:94:THR:HG23	1.94	0.47
2:J4:150:THR:HG22	2:J4:154:ILE:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L4:150:THR:O	2:L4:153:TYR:HB2	2.12	0.47
2:O4:137:LYS:HB3	2:O4:154:ILE:CD1	2.44	0.47
11:X4:202:CYC:HBA2	11:X4:202:CYC:CMA	2.44	0.47
2:H5:118:ILE:HA	2:H5:121:THR:HG22	1.95	0.47
3:K5:151:GLY:CA	11:K5:202:CYC:CMD	2.78	0.47
2:L5:118:ILE:HA	2:L5:121:THR:HG22	1.96	0.47
3:M5:162:LEU:O	3:M5:166:THR:OG1	2.32	0.47
3:P5:57:ARG:HE	3:P5:57:ARG:HB2	1.46	0.47
3:Z5:37:ARG:HD2	3:Z5:156:LEU:HD21	1.95	0.47
4:N6:3:VAL:HG13	4:N6:153:TYR:HB3	1.96	0.47
3:P6:34:GLY:O	3:P6:38:SER:OG	2.31	0.47
11:P6:202:CYC:CMA	11:P6:202:CYC:HBA2	2.44	0.47
3:T6:37:ARG:HG3	3:T6:156:LEU:CD2	2.44	0.47
7:E7:94:TYR:OH	8:F7:17:LYS:O	2.29	0.47
8:K7:126:THR:HG1	11:K7:1001:CYC:HMC1	1.78	0.47
2:B8:151:ASN:N	2:B8:151:ASN:ND2	2.60	0.47
2:D8:135:HIS:O	2:D8:139:ASN:HB2	2.14	0.47
2:F8:149:GLU:O	2:F8:153:TYR:CB	2.62	0.47
2:L8:28:TYR:OH	11:L8:202:CYC:CHB	2.62	0.47
2:L8:36:PHE:CG	2:L8:145:ASP:CG	2.91	0.47
3:M8:7:ARG:HH11	3:T8:169:LYS:CE	2.26	0.47
2:O8:32:ARG:NH1	11:X8:202:CYC:CBA	2.75	0.47
2:O8:36:PHE:CE1	2:O8:149:GLU:CB	2.97	0.47
2:O8:135:HIS:O	2:O8:139:ASN:HB2	2.14	0.47
3:P8:41:VAL:HG11	3:P8:98:PHE:HB2	1.95	0.47
2:Q8:24:LEU:HD21	3:R8:42:SER:CB	2.40	0.47
2:Q8:155:ASP:OD1	3:V8:46:ASN:CG	2.57	0.47
11:R8:201:CYC:CMA	11:R8:201:CYC:HBA2	2.44	0.47
2:S8:27:LEU:HD13	3:T8:38:SER:HB3	1.96	0.47
2:U8:135:HIS:O	2:U8:139:ASN:HB2	2.14	0.47
11:Z8:202:CYC:HBA2	11:Z8:202:CYC:HMA3	1.95	0.47
1:A1:203:PHE:CG	7:q3:76:GLU:HB3	2.49	0.47
2:B1:118:ILE:HA	2:B1:121:THR:HG22	1.96	0.47
2:D1:2:LYS:H	2:D1:105:GLY:HA3	1.79	0.47
4:N1:2:PRO:HD2	3:R1:77:ARG:HH21	1.79	0.47
4:N1:155:VAL:HG21	3:R1:84:ARG:HD2	1.95	0.47
2:O1:49:ASP:OD2	2:O1:49:ASP:N	2.47	0.47
2:W1:118:ILE:HA	2:W1:121:THR:HG22	1.96	0.47
1:A2:198:ASN:HD21	1:A2:202:ARG:HH11	1.61	0.47
1:A2:201:ARG:HG3	7:N3:52:LYS:NZ	2.28	0.47
3:G2:102:ALA:O	3:G2:106:ASN:ND2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H2:72:ASN:HD22	3:M2:57:ARG:NE	2.12	0.47
2:H2:73:ASN:OD1	2:H2:73:ASN:N	2.42	0.47
11:P2:202:CYC:HMA3	11:P2:202:CYC:HBA2	1.95	0.47
3:V2:36:LYS:O	3:V2:156:LEU:HD11	2.14	0.47
11:Z2:203:CYC:CMA	11:Z2:203:CYC:HBA2	2.44	0.47
5:13:557:ILE:CD1	8:I7:83:ARG:HD2	2.44	0.47
5:13:577:ASP:OD2	7:H7:14:GLU:CG	2.60	0.47
7:K3:113:ARG:HA	7:K3:113:ARG:HD2	1.60	0.47
8:M3:83:ARG:CZ	11:M3:201:CYC:O2A	2.61	0.47
7:T3:81:CYS:SG	11:T3:1001:CYC:HAC2	2.54	0.47
7:Z3:16:ARG:C	8:a3:90:ARG:HD2	2.39	0.47
7:Z3:70:GLY:N	7:H7:64:ASP:CG	2.71	0.47
8:c3:3:ASP:OD2	8:c3:6:THR:OG1	2.30	0.47
7:q3:81:CYS:SG	11:q3:1001:CYC:HAC2	2.54	0.47
1:A4:165:ALA:HB3	3:E4:77:ARG:HH11	1.78	0.47
2:B4:135:HIS:O	2:B4:139:ASN:HB2	2.14	0.47
3:C4:41:VAL:HG11	3:C4:98:PHE:HB2	1.95	0.47
2:F4:135:HIS:O	2:F4:139:ASN:HB2	2.15	0.47
2:F4:149:GLU:O	2:F4:153:TYR:CB	2.62	0.47
11:I4:202:CYC:HBA2	11:I4:202:CYC:CMA	2.45	0.47
2:J4:67:THR:OG1	2:J5:57:GLN:CB	2.61	0.47
2:J4:67:THR:OG1	2:J5:57:GLN:CG	2.62	0.47
2:L4:28:TYR:CE2	11:L4:202:CYC:NB	2.82	0.47
3:P4:41:VAL:HG13	3:P4:94:THR:HG23	1.94	0.47
2:Q4:24:LEU:HD12	11:R4:201:CYC:CBB	2.44	0.47
2:Q4:24:LEU:HD12	11:R4:201:CYC:HBB1	1.95	0.47
11:R4:201:CYC:HC	11:R4:201:CYC:HMD2	1.77	0.47
11:R4:201:CYC:HBA2	11:R4:201:CYC:HMA3	1.95	0.47
2:S4:135:HIS:O	2:S4:139:ASN:HB2	2.15	0.47
3:X4:139:VAL:HA	3:X4:142:VAL:HG11	1.92	0.47
2:Y4:150:THR:O	2:Y4:154:ILE:CG1	2.62	0.47
2:H5:129:TYR:CE1	11:H5:201:CYC:HBC2	2.48	0.47
3:R5:37:ARG:HD2	3:R5:156:LEU:HD21	1.95	0.47
11:M6:202:CYC:CMA	11:M6:202:CYC:HBA2	2.44	0.47
2:D8:140:HIS:ND1	2:D8:142:LEU:CB	2.77	0.47
3:I8:67:ILE:HD12	11:I8:203:CYC:H2A	1.79	0.47
2:S8:22:THR:HG21	2:Y8:4:PRO:HD3	1.93	0.47
3:T8:149:THR:OG1	11:T8:202:CYC:CAD	2.62	0.47
2:H1:49:ASP:OD2	2:H1:49:ASP:N	2.47	0.47
3:K1:37:ARG:HD2	3:K1:156:LEU:HD21	1.95	0.47
2:D2:93:ARG:HA	3:E2:18:PHE:CE1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E2:39:ASP:OD2	11:E2:202:CYC:CHB	2.54	0.47
3:I2:151:GLY:N	11:I2:202:CYC:HMD2	2.30	0.47
3:M2:7:ARG:CD	3:T2:169:LYS:HZ1	2.27	0.47
2:Q2:28:TYR:OH	11:R2:201:CYC:C3A	2.62	0.47
2:S2:22:THR:HG22	2:Y2:4:PRO:HD3	1.96	0.47
5:03:140:TYR:HB3	5:03:144:ASN:HB2	1.97	0.47
5:13:416:TYR:OH	8:h3:108:VAL:O	2.29	0.47
7:X3:81:CYS:SG	11:X3:1001:CYC:HAC2	2.54	0.47
7:f3:81:CYS:SG	11:f3:1001:CYC:HAC2	2.54	0.47
7:o3:75:GLU:O	1:A5:222:ALA:CB	2.62	0.47
7:o3:82:LEU:HD12	1:A5:221:MET:C	2.40	0.47
7:w3:81:CYS:SG	11:w3:1001:CYC:HAC2	2.54	0.47
11:K4:202:CYC:NB	11:K4:202:CYC:CMA	2.72	0.47
2:S4:150:THR:HG21	2:S4:154:ILE:HD11	1.95	0.47
3:X4:36:LYS:CA	3:X4:156:LEU:HD11	2.37	0.47
3:Z4:154:SER:HA	3:Z4:157:GLN:HB3	1.97	0.47
11:Z4:202:CYC:CMA	11:Z4:202:CYC:HBA2	2.44	0.47
3:C5:162:LEU:O	3:C5:166:THR:OG1	2.32	0.47
2:D5:118:ILE:HA	2:D5:121:THR:HG22	1.96	0.47
3:I5:151:GLY:CA	11:I5:202:CYC:CMD	2.78	0.47
4:N5:2:PRO:HD2	3:R5:77:ARG:HH21	1.79	0.47
4:N5:249:PRO:HB2	4:N5:254:ILE:HG12	1.97	0.47
2:Q5:49:ASP:OD2	2:Q5:49:ASP:N	2.47	0.47
2:S5:111:LEU:CD2	11:S5:201:CYC:CAB	2.78	0.47
3:T5:37:ARG:HD2	3:T5:156:LEU:HD21	1.96	0.47
2:B6:25:GLN:HG2	2:H6:33:GLN:HB2	1.94	0.47
2:D6:93:ARG:HA	3:E6:18:PHE:CE1	2.48	0.47
3:E6:34:GLY:O	3:E6:38:SER:OG	2.31	0.47
4:N6:42:VAL:HG11	4:N6:75:VAL:HG13	1.96	0.47
11:R6:201:CYC:CMA	11:R6:201:CYC:HBA2	2.44	0.47
11:T6:201:CYC:CMA	11:T6:201:CYC:HBA2	2.44	0.47
7:J7:76:GLU:O	7:J7:80:THR:OG1	2.31	0.47
8:Y7:81:CYS:HG	11:Y7:1001:CYC:HAC2	1.69	0.47
2:D8:83:LYS:HZ2	11:D8:201:CYC:CGA	2.22	0.47
2:H1:111:LEU:CD2	11:H1:201:CYC:CAB	2.78	0.47
3:M1:162:LEU:O	3:M1:166:THR:OG1	2.32	0.47
4:N1:204:PRO:HG2	3:T1:111:ASN:HB3	1.97	0.47
3:E2:34:GLY:O	3:E2:38:SER:OG	2.31	0.47
3:K2:40:ALA:CB	3:K2:156:LEU:HD13	2.45	0.47
4:N2:79:GLU:HG2	2:W2:15:GLN:HG2	1.95	0.47
2:Q2:17:ARG:O	3:R2:95:TYR:OH	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:285:ILE:HD11	5:13:316:VAL:HG22	1.95	0.47
6:23:22:LEU:HD11	8:U3:83:ARG:HD2	1.95	0.47
8:H3:83:ARG:CZ	11:H3:1001:CYC:O2A	2.61	0.47
8:J3:3:ASP:OD2	8:J3:3:ASP:N	2.37	0.47
8:Y3:73:TYR:OH	7:Z3:90:ARG:NH2	2.45	0.47
7:b3:81:CYS:SG	11:b3:1001:CYC:HAC2	2.54	0.47
7:i3:81:CYS:SG	11:i3:1001:CYC:HAC2	2.54	0.47
7:q3:47:ARG:HD3	8:r3:18:TYR:OH	2.14	0.47
8:t3:3:ASP:OD2	8:t3:6:THR:OG1	2.30	0.47
8:v3:3:ASP:OD2	8:v3:3:ASP:N	2.37	0.47
2:H4:24:LEU:CD2	2:H4:24:LEU:N	2.77	0.47
3:K4:118:VAL:HG11	4:N4:182:ILE:HG23	1.96	0.47
4:N4:49:MET:HE1	3:T4:84:ARG:CZ	2.44	0.47
11:P4:202:CYC:HBA2	11:P4:202:CYC:CMA	2.44	0.47
2:S4:22:THR:CG2	2:Y4:103:GLY:CA	2.91	0.47
3:Z4:3:ASP:HA	3:Z4:99:THR:HG22	1.94	0.47
2:O5:118:ILE:HA	2:O5:121:THR:HG22	1.96	0.47
2:S5:84:CYS:CA	11:S5:201:CYC:CAC	2.74	0.47
3:V5:162:LEU:O	3:V5:166:THR:OG1	2.32	0.47
3:E6:39:ASP:OD2	11:E6:202:CYC:CHB	2.54	0.47
7:H7:39:ILE:HG12	7:H7:145:ASP:HB3	1.97	0.47
8:I7:126:THR:OG1	11:I7:1001:CYC:CMC	2.62	0.47
7:Q7:76:GLU:O	7:Q7:80:THR:OG1	2.31	0.47
7:Z7:16:ARG:NH2	7:Z7:17:TYR:O	2.48	0.47
2:D8:36:PHE:CD2	2:D8:145:ASP:HB2	2.47	0.47
2:D8:149:GLU:C	2:D8:153:TYR:CD2	2.88	0.47
3:I8:36:LYS:C	3:I8:156:LEU:HD11	2.39	0.47
3:K8:84:ARG:HD2	4:N8:251:TYR:HD1	1.78	0.47
2:L8:83:LYS:HZ1	11:L8:201:CYC:H2A	1.55	0.47
2:S8:22:THR:HG23	2:Y8:102:GLY:O	2.14	0.47
3:X8:74:TYR:OH	2:Y8:93:ARG:NH1	2.47	0.47
2:F1:24:LEU:HD12	11:G1:202:CYC:CBB	2.42	0.47
2:S1:49:ASP:N	2:S1:49:ASP:OD2	2.47	0.47
2:Y1:155:ASP:HA	2:Y1:158:ILE:HD12	1.97	0.47
1:A2:43:ASP:OD2	1:A2:71:ARG:NH2	2.47	0.47
3:C2:34:GLY:O	3:C2:38:SER:OG	2.31	0.47
3:P2:150:SER:HA	11:P2:202:CYC:OC	2.14	0.47
3:V2:102:ALA:O	3:V2:106:ASN:ND2	2.44	0.47
5:03:523:VAL:O	7:C7:106:GLU:OE1	2.33	0.47
6:33:45:LYS:CE	8:n3:107:ARG:HH12	2.26	0.47
2:B4:64:PRO:HA	2:J5:138:ALA:HB1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D4:24:LEU:HB3	11:E4:202:CYC:CBB	1.89	0.47
2:L4:150:THR:CG2	2:L4:154:ILE:HD11	2.45	0.47
2:Q4:24:LEU:HD21	3:R4:42:SER:CB	2.40	0.47
2:Q4:155:ASP:OD1	3:V4:46:ASN:CG	2.57	0.47
2:U4:93:ARG:NH2	3:V4:16:GLY:O	2.47	0.47
2:W4:17:ARG:NH1	2:W4:17:ARG:CB	2.73	0.47
3:X4:74:TYR:OH	2:Y4:93:ARG:NH1	2.47	0.47
3:K5:37:ARG:HD2	3:K5:156:LEU:HD21	1.95	0.47
3:K5:77:ARG:HB2	2:L5:113:ALA:HB3	1.97	0.47
2:O5:155:ASP:HA	2:O5:158:ILE:HD12	1.97	0.47
11:O5:201:CYC:CGD	3:T5:57:ARG:HH12	2.17	0.47
3:K6:153:CYS:SG	11:K6:202:CYC:HBC2	2.53	0.47
2:Q6:84:CYS:CA	11:Q6:201:CYC:HAC1	2.31	0.47
11:Z6:202:CYC:CMA	11:Z6:202:CYC:HBA2	2.44	0.47
3:G8:140:ALA:O	3:G8:144:ASP:OD2	2.33	0.47
11:I8:202:CYC:HBA2	11:I8:202:CYC:CMA	2.44	0.47
2:L8:28:TYR:CE2	11:L8:202:CYC:NB	2.82	0.47
2:L8:150:THR:CG2	2:L8:154:ILE:HD11	2.45	0.47
11:L8:202:CYC:HBD1	11:L8:202:CYC:CHA	2.29	0.47
2:Q8:135:HIS:O	2:Q8:139:ASN:HB2	2.14	0.47
2:U8:32:ARG:HA	2:U8:32:ARG:HD2	1.67	0.47
11:X8:202:CYC:NB	11:X8:202:CYC:CMA	2.72	0.47
2:Y8:139:ASN:C	2:Y8:139:ASN:ND2	2.73	0.47
2:B1:155:ASP:HA	2:B1:158:ILE:HD12	1.97	0.47
2:L1:118:ILE:HA	2:L1:121:THR:HG22	1.96	0.47
4:N1:248:THR:C	4:N1:250:ARG:HH11	2.23	0.47
3:P1:111:ASN:OD1	3:P1:111:ASN:N	2.31	0.47
2:Q1:155:ASP:HA	2:Q1:158:ILE:HD12	1.97	0.47
3:V1:162:LEU:O	3:V1:166:THR:OG1	2.32	0.47
3:X1:37:ARG:HD2	3:X1:156:LEU:HD21	1.95	0.47
11:G2:201:CYC:CMA	11:G2:201:CYC:HBA2	2.44	0.47
11:I2:202:CYC:HBA2	11:I2:202:CYC:HMA3	1.95	0.47
2:L2:28:TYR:CZ	11:M2:202:CYC:NB	2.82	0.47
4:N2:207:VAL:H	3:T2:111:ASN:HB3	1.80	0.47
4:N2:223:GLY:HA2	4:N2:240:ARG:HD2	1.96	0.47
3:R2:102:ALA:O	3:R2:106:ASN:ND2	2.44	0.47
3:T2:65:GLN:H	3:T2:65:GLN:HG3	1.48	0.47
11:T2:202:CYC:NB	11:T2:202:CYC:CMA	2.72	0.47
2:W2:84:CYS:CA	11:W2:201:CYC:HAC1	2.31	0.47
7:I3:81:CYS:SG	11:I3:1001:CYC:HAC2	2.54	0.47
8:M3:3:ASP:OD2	8:M3:6:THR:OG1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:R3:81:CYS:SG	11:R3:1001:CYC:HAC2	2.54	0.47
7:d3:82:LEU:O	1:A6:203:PHE:CE2	2.66	0.47
8:n3:145:ALA:HA	8:n3:148:GLU:HG2	1.97	0.47
7:o3:25:ARG:HH21	7:V7:25:ARG:NH1	2.12	0.47
2:B4:36:PHE:CD1	2:B4:146:ALA:HA	2.49	0.47
2:D4:151:ASN:O	2:D4:155:ASP:HB2	2.15	0.47
4:N4:82:LYS:NZ	2:O4:14:SER:HB3	2.30	0.47
2:O4:155:ASP:OD1	3:X4:46:ASN:ND2	2.48	0.47
2:U4:135:HIS:O	2:U4:139:ASN:HB2	2.14	0.47
3:C5:37:ARG:HD2	3:C5:156:LEU:HD21	1.95	0.47
3:M5:37:ARG:HD2	3:M5:156:LEU:HD21	1.95	0.47
3:P5:37:ARG:HD2	3:P5:156:LEU:HD21	1.96	0.47
2:S5:155:ASP:HA	2:S5:158:ILE:HD12	1.97	0.47
1:A6:43:ASP:OD2	1:A6:71:ARG:NH2	2.47	0.47
3:C6:33:GLU:O	3:C6:36:LYS:HB2	2.15	0.47
3:C6:72:ASN:HD21	3:C6:122:VAL:HG22	1.80	0.47
11:A7:1001:CYC:O1A	8:F7:66:THR:CG2	2.36	0.47
11:C8:201:CYC:CMA	11:C8:201:CYC:HBA2	2.44	0.47
3:E8:3:ASP:HA	3:E8:99:THR:HG22	1.95	0.47
3:K8:139:VAL:C	3:K8:142:VAL:HG12	2.36	0.47
2:Q8:24:LEU:HD12	2:U8:152:ASN:HD22	1.75	0.47
2:S8:135:HIS:O	2:S8:139:ASN:HB2	2.14	0.47
2:D1:155:ASP:HA	2:D1:158:ILE:HD12	1.97	0.47
2:L1:24:LEU:HD12	11:M1:202:CYC:HBB1	1.96	0.47
2:L1:155:ASP:HA	2:L1:158:ILE:HD12	1.97	0.47
3:R1:37:ARG:HD2	3:R1:156:LEU:HD21	1.95	0.47
3:R1:162:LEU:O	3:R1:166:THR:OG1	2.32	0.47
1:A2:213:GLY:CA	8:H3:67:ARG:CG	2.83	0.47
11:E2:203:CYC:C4C	2:F2:84:CYS:HB2	2.45	0.47
2:H2:113:ALA:HB3	3:M2:77:ARG:HB2	1.96	0.47
11:I2:202:CYC:CMA	11:I2:202:CYC:HBA2	2.44	0.47
11:K2:203:CYC:C4C	2:L2:84:CYS:HB2	2.45	0.47
3:P2:34:GLY:O	3:P2:38:SER:OG	2.31	0.47
3:P2:151:GLY:CA	11:P2:202:CYC:HMD3	2.23	0.47
2:S2:84:CYS:HB2	11:S2:201:CYC:C4C	2.45	0.47
3:T2:36:LYS:C	3:T2:156:LEU:HD11	2.40	0.47
3:V2:34:GLY:O	3:V2:38:SER:OG	2.31	0.47
3:Z2:151:GLY:O	11:Z2:203:CYC:OB	2.33	0.47
5:03:238:GLN:NE2	7:P3:14:GLU:O	2.48	0.47
5:13:175:THR:HG21	5:13:223:LEU:HD23	1.96	0.47
5:13:274:LYS:HB3	5:13:306:LYS:HG2	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:451:GLU:HG3	5:13:655:GLY:HA3	1.97	0.47
5:13:477:ARG:HE	8:a3:107:ARG:HE	1.61	0.47
5:13:694:PRO:HB2	8:x3:147:ARG:HD3	1.96	0.47
11:13:903:CYC:O2A	8:a3:83:ARG:CZ	2.61	0.47
7:K3:81:CYS:SG	11:K3:1001:CYC:HAC2	2.54	0.47
8:L3:157:CYS:O	8:L3:161:SER:OG	2.28	0.47
8:S3:145:ALA:HA	8:S3:148:GLU:HG2	1.97	0.47
8:U3:83:ARG:CZ	11:U3:1001:CYC:O2A	2.61	0.47
8:c3:67:ARG:CG	1:A6:213:GLY:C	2.84	0.47
7:k3:81:CYS:SG	11:k3:1001:CYC:HAC2	2.54	0.47
7:o3:6:LYS:HZ3	7:V7:10:ASN:HD21	1.63	0.47
7:s3:81:CYS:SG	11:s3:1001:CYC:HAC2	2.54	0.47
7:s3:97:VAL:HG21	8:t3:19:LEU:HD13	1.97	0.47
8:t3:83:ARG:CZ	11:t3:1001:CYC:O2A	2.61	0.47
8:x3:157:CYS:O	8:x3:161:SER:OG	2.28	0.47
11:C4:201:CYC:CBD	11:C4:201:CYC:CHA	2.85	0.47
11:C4:201:CYC:CMA	11:C4:201:CYC:HBA2	2.44	0.47
2:D4:135:HIS:O	2:D4:139:ASN:HB2	2.15	0.47
3:G4:139:VAL:C	3:G4:142:VAL:HG13	2.37	0.47
3:I4:36:LYS:C	3:I4:156:LEU:HD11	2.39	0.47
2:J4:150:THR:CA	2:J4:153:TYR:HD2	2.28	0.47
11:L4:202:CYC:CMA	11:L4:202:CYC:HBA2	2.44	0.47
3:M4:7:ARG:HH11	3:T4:169:LYS:CE	2.26	0.47
2:O4:135:HIS:O	2:O4:139:ASN:HB2	2.14	0.47
3:P4:142:VAL:HG22	11:P4:202:CYC:HBC1	1.94	0.47
11:T4:202:CYC:CMA	11:T4:202:CYC:HBA2	2.44	0.47
3:V4:51:ILE:CD1	3:V4:141:ILE:HD12	2.27	0.47
2:B5:118:ILE:HA	2:B5:121:THR:HG22	1.96	0.47
2:B5:155:ASP:HA	2:B5:158:ILE:HD12	1.97	0.47
2:D5:49:ASP:OD2	2:D5:49:ASP:N	2.47	0.47
2:F5:129:TYR:CE1	11:F5:201:CYC:HBC2	2.48	0.47
3:I5:162:LEU:O	3:I5:166:THR:OG1	2.32	0.47
2:J5:155:ASP:HA	2:J5:158:ILE:HD12	1.97	0.47
2:L5:24:LEU:CD1	11:M5:202:CYC:HBB1	2.43	0.47
4:N5:248:THR:C	4:N5:250:ARG:HH11	2.23	0.47
2:Q5:24:LEU:CD1	11:R5:202:CYC:HBB1	2.43	0.47
2:Q5:155:ASP:HA	2:Q5:158:ILE:HD12	1.97	0.47
11:C6:202:CYC:CMA	11:C6:202:CYC:HBA2	2.44	0.47
11:C6:203:CYC:C4C	2:D6:84:CYS:HB2	2.45	0.47
3:E6:72:ASN:HD21	3:E6:122:VAL:HG22	1.80	0.47
2:H6:113:ALA:HB3	3:M6:77:ARG:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J6:84:CYS:HB2	11:J6:201:CYC:C4C	2.45	0.47
3:K6:7:ARG:NH1	3:P6:172:GLU:OE1	2.48	0.47
2:L6:28:TYR:CZ	11:M6:202:CYC:NB	2.82	0.47
3:M6:7:ARG:CD	3:T6:169:LYS:HZ1	2.27	0.47
3:V6:53:THR:O	3:V6:57:ARG:HB2	2.14	0.47
3:Z6:34:GLY:O	3:Z6:38:SER:OG	2.31	0.47
7:A7:39:ILE:HG12	7:A7:145:ASP:HB3	1.97	0.47
7:A7:76:GLU:O	7:A7:80:THR:OG1	2.31	0.47
8:D7:125:SER:OG	11:D7:1001:CYC:CMC	2.63	0.47
7:J7:39:ILE:HG12	7:J7:145:ASP:HB3	1.97	0.47
7:O7:16:ARG:NH2	7:O7:17:TYR:O	2.48	0.47
7:O7:112:VAL:HG12	8:T7:75:THR:HG21	1.96	0.47
7:Q7:39:ILE:HG12	7:Q7:145:ASP:HB3	1.97	0.47
8:R7:125:SER:OG	11:R7:1001:CYC:CMC	2.63	0.47
8:R7:157:CYS:O	8:R7:161:SER:OG	2.33	0.47
3:C8:35:THR:HG23	11:C8:201:CYC:O2D	2.15	0.47
3:C8:145:PRO:CA	11:C8:201:CYC:HMC3	2.45	0.47
3:G8:51:ILE:CD1	3:G8:141:ILE:HD12	2.43	0.47
3:G8:67:ILE:HD12	11:G8:201:CYC:H2A	1.79	0.47
2:H8:24:LEU:N	2:H8:24:LEU:CD2	2.77	0.47
11:I8:203:CYC:CAB	2:J8:111:LEU:HD23	2.18	0.47
4:N8:82:LYS:NZ	2:O8:14:SER:HB3	2.30	0.47
2:Q8:152:ASN:HD21	2:U8:21:ASN:HB2	1.76	0.47
3:X8:43:ARG:NE	3:X8:141:ILE:O	2.48	0.47
3:Z8:47:ASN:HB2	3:Z8:141:ILE:HD13	1.95	0.47
1:A1:167:ARG:NH2	3:E1:120:LEU:O	2.48	0.47
2:O1:129:TYR:CE1	11:O1:201:CYC:HBC2	2.48	0.47
2:S1:155:ASP:HA	2:S1:158:ILE:HD12	1.97	0.47
3:Z1:37:ARG:HD2	3:Z1:156:LEU:HD21	1.95	0.47
2:H2:84:CYS:HB2	11:H2:201:CYC:C4C	2.45	0.47
3:K2:7:ARG:NH1	3:P2:172:GLU:OE1	2.48	0.47
3:K2:37:ARG:CB	3:K2:156:LEU:HD21	2.44	0.47
11:R2:201:CYC:CMA	11:R2:201:CYC:HBA2	2.44	0.47
2:W2:84:CYS:HB2	11:W2:201:CYC:C4C	2.45	0.47
3:Z2:72:ASN:HD21	3:Z2:122:VAL:HG22	1.80	0.47
5:03:584:TRP:CE2	5:03:623:PHE:HB2	2.50	0.47
5:03:716:PHE:HZ	7:y3:14:GLU:HA	1.79	0.47
5:03:837:LEU:HD11	6:U7:42:ARG:HD2	1.83	0.47
8:M3:145:ALA:HA	8:M3:148:GLU:HG2	1.97	0.47
10:m3:77:GLN:HB3	11:m3:201:CYC:HAD1	1.97	0.47
7:o3:51:ILE:CG2	1:A5:218:PHE:CE2	2.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:u3:68:PRO:HB3	1:A8:196:TRP:CD2	2.50	0.47
8:v3:145:ALA:HA	8:v3:148:GLU:HG2	1.97	0.47
11:K4:202:CYC:CMA	11:K4:202:CYC:HBA2	2.45	0.47
11:L4:202:CYC:CBD	11:L4:202:CYC:CHA	2.86	0.47
2:S4:27:LEU:HD13	3:T4:38:SER:HB3	1.96	0.47
2:F5:155:ASP:HA	2:F5:158:ILE:HD12	1.97	0.47
3:G5:151:GLY:CA	11:G5:202:CYC:CMD	2.77	0.47
2:J5:106:PRO:HG3	3:K5:9:VAL:HG11	1.97	0.47
3:K6:72:ASN:HD21	3:K6:122:VAL:HG22	1.80	0.47
3:M6:102:ALA:O	3:M6:106:ASN:ND2	2.44	0.47
3:R6:34:GLY:O	3:R6:38:SER:OG	2.31	0.47
3:R6:36:LYS:NZ	3:R6:36:LYS:HB2	2.29	0.47
3:R6:72:ASN:HD21	3:R6:122:VAL:HG22	1.80	0.47
11:A7:1001:CYC:HMA1	8:F7:66:THR:CG2	2.43	0.47
7:L7:16:ARG:NH2	7:L7:17:TYR:O	2.48	0.47
1:A8:133:GLY:CA	2:B8:14:SER:O	2.62	0.47
2:B8:135:HIS:O	2:B8:139:ASN:HB2	2.14	0.47
2:B8:152:ASN:ND2	2:H8:21:ASN:HB2	2.29	0.47
3:C8:43:ARG:NH2	3:C8:148:VAL:HG13	2.17	0.47
3:C8:51:ILE:HG12	3:C8:141:ILE:HD11	1.96	0.47
2:D8:36:PHE:CZ	2:D8:149:GLU:CD	2.93	0.47
2:D8:36:PHE:HZ	2:D8:149:GLU:CD	2.22	0.47
11:F8:201:CYC:CMA	11:F8:201:CYC:HBA2	2.44	0.47
2:O8:137:LYS:HB3	2:O8:154:ILE:CD1	2.44	0.47
3:X8:36:LYS:C	3:X8:156:LEU:HD11	2.39	0.47
2:Y8:149:GLU:CA	2:Y8:153:TYR:CD2	2.92	0.47
3:Z8:37:ARG:HH11	3:Z8:37:ARG:HB3	1.79	0.47
3:Z8:41:VAL:HG21	3:Z8:98:PHE:CA	2.45	0.47
3:Z8:139:VAL:O	3:Z8:143:MET:CA	2.60	0.47
2:J1:49:ASP:OD2	2:J1:49:ASP:N	2.47	0.47
11:O1:201:CYC:CGD	3:T1:57:ARG:HH12	2.17	0.47
3:P1:162:LEU:O	3:P1:166:THR:OG1	2.32	0.47
2:U1:24:LEU:CD1	11:U1:202:CYC:CBB	2.93	0.47
11:U1:202:CYC:CMC	3:V1:143:MET:O	2.63	0.47
2:Y1:49:ASP:OD2	2:Y1:49:ASP:N	2.47	0.47
3:Z1:143:MET:O	11:Z1:202:CYC:CMC	2.63	0.47
2:D2:84:CYS:HB2	11:D2:201:CYC:C4C	2.45	0.47
3:M2:153:CYS:CB	11:M2:202:CYC:HAC2	2.43	0.47
2:O2:84:CYS:HB2	11:T2:201:CYC:C4C	2.45	0.47
3:P2:151:GLY:N	11:P2:202:CYC:CMD	2.59	0.47
11:V2:202:CYC:CMA	11:V2:202:CYC:HBA2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:584:TRP:CE2	5:13:623:PHE:HB2	2.50	0.47
6:33:22:LEU:HD21	8:l3:83:ARG:HH11	1.80	0.47
7:N3:81:CYS:SG	11:N3:1001:CYC:HAC2	2.54	0.47
10:V3:37:ILE:HD13	8:W3:28:LYS:HG3	1.97	0.47
9:g3:113:LEU:HD13	9:g3:164:LEU:HD21	1.97	0.47
7:k3:94:TYR:HD1	8:l3:19:LEU:HD11	1.80	0.47
7:u3:70:GLY:HA2	7:Q7:64:ASP:OD1	2.09	0.47
11:F4:201:CYC:H2C	3:G4:153:CYS:SG	2.54	0.47
2:H4:73:ASN:O	11:M4:201:CYC:CMD	2.63	0.47
11:I4:203:CYC:CMD	2:J4:73:ASN:O	2.63	0.47
2:J4:24:LEU:HB3	11:K4:202:CYC:CBB	2.45	0.47
2:J4:135:HIS:O	2:J4:139:ASN:HB2	2.15	0.47
2:O4:36:PHE:CE1	2:O4:149:GLU:CB	2.97	0.47
2:Q4:152:ASN:HD21	2:U4:21:ASN:HB2	1.76	0.47
3:X4:24:LEU:HD23	3:X4:24:LEU:HA	1.81	0.47
3:X4:36:LYS:CB	3:X4:156:LEU:CD1	2.39	0.47
3:X4:37:ARG:HH22	3:X4:159:GLU:CD	2.22	0.47
2:B5:129:TYR:CE1	11:B5:201:CYC:HBC2	2.48	0.47
3:C5:143:MET:O	11:C5:201:CYC:CMC	2.63	0.47
3:G5:3:ASP:O	3:G5:7:ARG:N	2.42	0.47
2:J5:49:ASP:N	2:J5:49:ASP:OD2	2.47	0.47
3:I6:72:ASN:HD21	3:I6:122:VAL:HG22	1.80	0.47
3:I6:151:GLY:N	11:I6:202:CYC:HMD2	2.30	0.47
11:I6:202:CYC:CMA	11:I6:202:CYC:HBA2	2.44	0.47
3:K6:119:ALA:HA	4:N6:212:ALA:HB1	1.95	0.47
3:T6:72:ASN:HD21	3:T6:122:VAL:HG22	1.80	0.47
7:C7:22:GLU:HG3	7:C7:25:ARG:HH11	1.80	0.47
7:C7:39:ILE:HG12	7:C7:145:ASP:HB3	1.97	0.47
8:D7:126:THR:OG1	11:D7:1001:CYC:CMC	2.63	0.47
7:E7:34:GLU:HG2	8:F7:28:LYS:NZ	2.29	0.47
7:E7:89:LEU:HB3	8:F7:18:TYR:OH	2.15	0.47
4:N8:166:ARG:HD3	4:N8:189:LEU:HD13	1.97	0.47
2:O8:21:ASN:ND2	2:O8:21:ASN:C	2.73	0.47
2:Q8:24:LEU:HD12	11:R8:201:CYC:HBB1	1.95	0.47
2:S8:148:THR:CG2	11:Z8:202:CYC:CAC	2.85	0.47
2:F1:155:ASP:HA	2:F1:158:ILE:HD12	1.97	0.47
2:Q1:73:ASN:OD1	2:Q1:73:ASN:N	2.28	0.47
11:V1:201:CYC:HAA1	4:a1:268:LEU:HD23	1.97	0.47
1:A2:201:ARG:HG3	7:N3:52:LYS:CE	2.45	0.47
3:I2:102:ALA:O	3:I2:106:ASN:ND2	2.44	0.47
3:K2:35:THR:HA	3:K2:38:SER:OG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X2:203:CYC:C4C	2:Y2:84:CYS:HB2	2.45	0.47
5:03:565:THR:HG22	6:G7:29:LYS:CD	2.34	0.47
7:G3:69:GLY:HA2	7:f3:56:ASP:HA	1.97	0.47
7:K3:113:ARG:HH12	7:A7:117:LYS:HD3	1.70	0.47
7:f3:16:ARG:O	9:g3:95:TYR:OH	2.33	0.47
8:t3:128:GLN:HE21	1:A4:208:ARG:NH2	2.11	0.47
7:u3:81:CYS:SG	11:u3:1001:CYC:HAC2	2.55	0.47
3:K4:15:ARG:CG	3:P4:63:GLN:HE21	2.28	0.47
4:N4:2:PRO:HB2	11:N4:301:CYC:HBA2	1.28	0.47
3:P4:40:ALA:HB1	3:P4:156:LEU:HD13	1.88	0.47
2:Q4:135:HIS:O	2:Q4:139:ASN:HB2	2.15	0.47
3:R4:149:THR:O	11:R4:201:CYC:NC	2.48	0.47
3:T4:154:SER:O	3:T4:158:GLN:HB2	2.15	0.47
1:A5:167:ARG:NH2	3:E5:120:LEU:O	2.48	0.47
3:E5:162:LEU:O	3:E5:166:THR:OG1	2.32	0.47
3:I5:37:ARG:HD2	3:I5:156:LEU:HD21	1.95	0.47
3:M5:143:MET:O	11:M5:202:CYC:CMC	2.63	0.47
2:W5:118:ILE:HA	2:W5:121:THR:HG22	1.96	0.47
2:Y5:155:ASP:HA	2:Y5:158:ILE:HD12	1.97	0.47
3:Z5:162:LEU:O	3:Z5:166:THR:OG1	2.32	0.47
4:N6:98:ASN:HD21	4:N6:125:PHE:HE1	1.63	0.47
3:P6:72:ASN:HD21	3:P6:122:VAL:HG22	1.80	0.47
8:I7:125:SER:OG	11:I7:1001:CYC:CMC	2.63	0.47
7:X7:117:LYS:HE3	7:X7:117:LYS:HB2	1.81	0.47
7:Z7:22:GLU:HG3	7:Z7:25:ARG:HH11	1.80	0.47
2:B8:18:PHE:CE2	3:C8:45:THR:OG1	2.67	0.47
2:B8:36:PHE:CD1	2:B8:146:ALA:HA	2.49	0.47
2:H8:135:HIS:O	2:H8:139:ASN:HB2	2.15	0.47
2:J8:150:THR:CG2	2:J8:154:ILE:CD1	2.93	0.47
3:K8:118:VAL:HG11	4:N8:182:ILE:HG23	1.96	0.47
2:L8:73:ASN:O	11:L8:201:CYC:CMD	2.63	0.47
3:M8:24:LEU:HA	3:M8:24:LEU:HD23	1.81	0.47
11:P8:203:CYC:CMD	2:Q8:73:ASN:O	2.63	0.47
2:Y8:150:THR:O	2:Y8:154:ILE:CG1	2.62	0.47
3:Z8:154:SER:HA	3:Z8:157:GLN:HB3	1.97	0.47
11:Z8:202:CYC:CMA	11:Z8:202:CYC:HBA2	2.44	0.47
1:A1:203:PHE:H	7:q3:76:GLU:CB	2.28	0.46
11:D1:201:CYC:CMC	3:E1:143:MET:O	2.63	0.46
2:J1:61:SER:HA	2:J8:61:SER:HB3	1.97	0.46
2:J1:155:ASP:HA	2:J1:158:ILE:HD12	1.97	0.46
3:K1:143:MET:O	11:K1:202:CYC:CMC	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R1:57:ARG:HE	3:R1:57:ARG:HB2	1.46	0.46
2:J2:24:LEU:HB3	11:K2:202:CYC:HBB3	1.96	0.46
2:Q2:84:CYS:HB2	11:Q2:201:CYC:C4C	2.45	0.46
5:03:518:GLY:CA	8:B7:118:SER:O	2.63	0.46
5:03:717:LYS:HD3	6:U7:19:GLN:OE1	2.14	0.46
5:13:563:GLU:HB3	6:N7:30:LEU:HG	1.97	0.46
8:H3:73:TYR:OH	7:I3:90:ARG:NH2	2.46	0.46
8:J3:39:ARG:NH2	7:A7:147:ALA:HB1	2.31	0.46
7:P3:81:CYS:SG	11:P3:1001:CYC:HAC2	2.54	0.46
7:R3:12:ASP:OD2	8:S3:107:ARG:NH2	2.48	0.46
10:V3:39:ILE:HG13	10:V3:141:LEU:HD22	1.96	0.46
10:V3:77:GLN:HB3	11:V3:201:CYC:HAD1	1.97	0.46
7:d3:81:CYS:SG	11:d3:1001:CYC:HAC2	2.54	0.46
7:f3:5:THR:HG23	9:g3:1:MET:HB2	1.96	0.46
8:p3:145:ALA:HA	8:p3:148:GLU:HG2	1.97	0.46
8:t3:145:ALA:HA	8:t3:148:GLU:HG2	1.97	0.46
1:A4:71:ARG:HB2	11:I4:201:CYC:HBA2	1.97	0.46
3:C4:35:THR:HG23	11:C4:201:CYC:O2D	2.15	0.46
3:C4:40:ALA:HB3	3:C4:156:LEU:CD1	2.13	0.46
2:D4:148:THR:OG1	11:L4:202:CYC:CMB	2.64	0.46
3:G4:140:ALA:O	3:G4:144:ASP:OD2	2.33	0.46
2:H4:86:ARG:HH22	3:M4:67:ILE:HD12	1.79	0.46
2:O4:73:ASN:O	11:O4:201:CYC:CMD	2.63	0.46
2:U4:149:GLU:HG2	2:U4:153:TYR:CE2	2.12	0.46
3:Z4:3:ASP:HB3	3:Z4:6:THR:HG23	1.98	0.46
3:Z4:37:ARG:HH11	3:Z4:37:ARG:HB3	1.79	0.46
2:H5:24:LEU:HD12	11:I5:202:CYC:HBB2	1.90	0.46
2:Q5:111:LEU:CD2	11:Q5:201:CYC:CAB	2.78	0.46
2:W5:49:ASP:OD2	2:W5:49:ASP:N	2.47	0.46
3:X5:143:MET:O	11:X5:202:CYC:CMC	2.63	0.46
3:K6:37:ARG:CB	3:K6:156:LEU:HD21	2.44	0.46
3:K6:40:ALA:CB	3:K6:156:LEU:HD13	2.44	0.46
11:K6:202:CYC:CMA	11:K6:202:CYC:HBA2	2.45	0.46
4:N6:223:GLY:HA2	4:N6:240:ARG:HD2	1.96	0.46
3:P6:33:GLU:HB2	3:P6:36:LYS:CE	2.26	0.46
3:V6:36:LYS:O	3:V6:156:LEU:HD11	2.14	0.46
11:X6:202:CYC:CMA	11:X6:202:CYC:HBA2	2.44	0.46
7:H7:72:ALA:CB	11:H7:1001:CYC:OC	2.63	0.46
7:J7:90:ARG:HD3	8:K7:18:TYR:CZ	2.50	0.46
7:V7:115:MET:HB2	7:V7:115:MET:HE3	1.73	0.46
2:B8:73:ASN:O	11:G8:201:CYC:CMD	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B8:86:ARG:CZ	11:G8:201:CYC:O2A	2.61	0.46
3:C8:3:ASP:HB3	3:C8:6:THR:HG23	1.97	0.46
2:D8:73:ASN:O	11:D8:201:CYC:CMD	2.63	0.46
3:E8:3:ASP:HB3	3:E8:6:THR:HG23	1.98	0.46
2:H8:73:ASN:O	11:M8:201:CYC:CMD	2.63	0.46
2:H8:86:ARG:HH22	3:M8:67:ILE:HD12	1.79	0.46
2:J8:150:THR:CA	2:J8:153:TYR:HD2	2.28	0.46
3:P8:141:ILE:O	3:P8:144:ASP:OD1	2.32	0.46
3:R8:149:THR:O	11:R8:201:CYC:NC	2.48	0.46
3:T8:3:ASP:HB3	3:T8:6:THR:HG23	1.98	0.46
2:U8:28:TYR:CE2	11:V8:202:CYC:NB	2.84	0.46
3:E1:162:LEU:O	3:E1:166:THR:OG1	2.32	0.46
3:G1:37:ARG:HD2	3:G1:156:LEU:HD21	1.95	0.46
3:I1:143:MET:O	11:I1:202:CYC:CMC	2.63	0.46
3:K1:162:LEU:O	3:K1:166:THR:OG1	2.32	0.46
2:Q1:2:LYS:H	2:Q1:105:GLY:HA3	1.80	0.46
3:T1:143:MET:O	11:T1:201:CYC:CMC	2.63	0.46
3:X1:143:MET:O	11:X1:202:CYC:CMC	2.63	0.46
3:I2:72:ASN:HD21	3:I2:122:VAL:HG22	1.80	0.46
3:M2:92:TYR:CE1	3:M2:108:ARG:HG3	2.51	0.46
3:R2:72:ASN:HD21	3:R2:122:VAL:HG22	1.80	0.46
2:U2:84:CYS:HB2	11:Z2:201:CYC:C4C	2.45	0.46
5:13:460:LYS:HG3	5:13:463:ARG:H	1.80	0.46
9:Q3:113:LEU:HD13	9:Q3:164:LEU:HD21	1.97	0.46
8:h3:145:ALA:HA	8:h3:148:GLU:HG2	1.97	0.46
8:p3:73:TYR:OH	7:q3:90:ARG:NH2	2.48	0.46
8:z3:83:ARG:CZ	11:z3:1001:CYC:O2A	2.61	0.46
2:D4:148:THR:OG1	11:L4:202:CYC:HMB1	2.15	0.46
2:J4:19:LEU:CD2	2:J4:19:LEU:N	2.73	0.46
2:L4:36:PHE:CG	2:L4:145:ASP:CG	2.91	0.46
2:O4:21:ASN:ND2	2:O4:21:ASN:C	2.73	0.46
2:O4:103:GLY:HA2	2:W4:22:THR:HG22	1.97	0.46
2:S4:148:THR:HG21	11:Z4:202:CYC:HAC2	1.94	0.46
2:W4:135:HIS:O	2:W4:139:ASN:HB2	2.15	0.46
3:X4:43:ARG:NE	3:X4:141:ILE:O	2.48	0.46
2:B5:111:LEU:CD2	11:B5:201:CYC:CAB	2.78	0.46
2:D5:155:ASP:HA	2:D5:158:ILE:HD12	1.97	0.46
3:G5:143:MET:O	11:G5:202:CYC:CMC	2.63	0.46
2:L5:129:TYR:CE1	11:L5:201:CYC:HBC2	2.48	0.46
2:L5:155:ASP:HA	2:L5:158:ILE:HD12	1.97	0.46
2:Q5:19:LEU:HB2	3:R5:45:THR:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:84:CYS:HB2	11:B6:201:CYC:C4C	2.45	0.46
3:I6:40:ALA:O	3:I6:44:MET:HB2	2.14	0.46
4:N6:207:VAL:H	3:T6:111:ASN:HB3	1.80	0.46
2:S6:22:THR:HG22	2:Y6:4:PRO:HD3	1.96	0.46
3:T6:36:LYS:C	3:T6:156:LEU:HD11	2.40	0.46
8:F7:126:THR:OG1	11:F7:1001:CYC:CMC	2.63	0.46
7:O7:76:GLU:O	7:O7:80:THR:OG1	2.31	0.46
7:Q7:16:ARG:NH2	7:Q7:17:TYR:O	2.48	0.46
8:R7:126:THR:OG1	11:R7:1001:CYC:CMC	2.63	0.46
8:a7:125:SER:OG	11:a7:1001:CYC:CMC	2.63	0.46
2:D8:151:ASN:O	2:D8:155:ASP:HB2	2.15	0.46
11:E8:203:CYC:CMD	2:F8:73:ASN:O	2.63	0.46
2:H8:140:HIS:HE1	2:H8:142:LEU:HB2	1.80	0.46
3:K8:143:MET:CE	3:K8:157:GLN:CB	2.89	0.46
2:O8:155:ASP:OD1	3:X8:46:ASN:ND2	2.48	0.46
2:W8:73:ASN:O	11:W8:201:CYC:CMD	2.63	0.46
2:W8:135:HIS:O	2:W8:139:ASN:HB2	2.15	0.46
3:Z8:3:ASP:HB3	3:Z8:6:THR:HG23	1.98	0.46
3:Z8:139:VAL:C	3:Z8:142:VAL:CG1	2.83	0.46
2:B1:73:ASN:OD1	2:B1:73:ASN:N	2.28	0.46
3:G1:143:MET:O	11:G1:202:CYC:CMC	2.63	0.46
2:Q1:19:LEU:HB2	3:R1:45:THR:HG21	1.98	0.46
3:R1:143:MET:O	11:R1:202:CYC:CMC	2.63	0.46
3:R1:151:GLY:CA	11:R1:202:CYC:CMD	2.77	0.46
2:U1:118:ILE:HA	2:U1:121:THR:HG22	1.96	0.46
1:A2:207:ASP:CG	8:O3:17:LYS:HE2	2.40	0.46
3:E2:102:ALA:O	3:E2:106:ASN:ND2	2.44	0.46
2:H2:28:TYR:CE1	3:I2:35:THR:OG1	2.69	0.46
3:I2:40:ALA:O	3:I2:44:MET:CB	2.64	0.46
11:K2:202:CYC:CMA	11:K2:202:CYC:HBA2	2.45	0.46
5:03:521:THR:HG23	5:03:524:SER:CB	2.44	0.46
5:03:777:GLU:CG	7:O7:14:GLU:HG3	2.43	0.46
5:13:563:GLU:HB3	6:N7:30:LEU:CG	2.45	0.46
8:O3:83:ARG:CZ	11:O3:1001:CYC:O2A	2.61	0.46
7:X3:69:GLY:HA3	7:J7:63:PRO:HG2	1.97	0.46
8:t3:128:GLN:NE2	1:A4:208:ARG:CZ	2.62	0.46
8:x3:3:ASP:OD2	8:x3:6:THR:OG1	2.30	0.46
1:A4:12:SER:OG	3:E4:116:THR:OG1	2.28	0.46
1:A4:22:VAL:O	1:A4:27:GLN:NE2	2.49	0.46
3:C4:3:ASP:HB3	3:C4:6:THR:HG23	1.97	0.46
2:H4:135:HIS:O	2:H4:139:ASN:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K4:143:MET:HE3	3:K4:157:GLN:HB2	1.92	0.46
3:P4:141:ILE:O	3:P4:144:ASP:OD1	2.32	0.46
2:D5:33:GLN:HB2	2:L5:25:GLN:HG2	1.96	0.46
11:D5:201:CYC:CMC	3:E5:143:MET:O	2.63	0.46
2:Q5:24:LEU:CD1	11:R5:202:CYC:HBB2	2.43	0.46
2:S5:49:ASP:N	2:S5:49:ASP:OD2	2.47	0.46
2:W5:155:ASP:HA	2:W5:158:ILE:HD12	1.97	0.46
11:X5:203:CYC:HBC2	2:Y5:129:TYR:CE1	2.48	0.46
3:G6:72:ASN:HD21	3:G6:122:VAL:HG22	1.80	0.46
3:K6:102:ALA:O	3:K6:106:ASN:ND2	2.44	0.46
3:M6:3:ASP:N	3:M6:6:THR:OG1	2.41	0.46
4:N6:85:PHE:HD1	4:N6:97:LEU:HD13	1.80	0.46
2:Y6:84:CYS:HB2	11:Y6:201:CYC:C4C	2.45	0.46
2:Y6:84:CYS:CA	11:Y6:201:CYC:HAC1	2.31	0.46
3:Z6:57:ARG:NE	3:Z6:57:ARG:CA	2.73	0.46
4:a6:263:VAL:HG23	4:a6:267:ARG:HG3	1.97	0.46
7:A7:16:ARG:NH2	7:A7:17:TYR:O	2.48	0.46
11:K8:202:CYC:CMA	11:K8:202:CYC:HBA2	2.45	0.46
11:P8:202:CYC:HBA2	11:P8:202:CYC:CMA	2.44	0.46
2:W8:17:ARG:CB	2:W8:17:ARG:CZ	2.94	0.46
2:L1:45:THR:HG22	3:M1:18:PHE:HB3	1.96	0.46
2:L1:49:ASP:N	2:L1:49:ASP:OD2	2.47	0.46
4:N1:249:PRO:HB2	4:N1:254:ILE:HG12	1.97	0.46
3:P1:143:MET:O	11:P1:202:CYC:CMC	2.63	0.46
2:U1:49:ASP:OD2	2:U1:49:ASP:N	2.47	0.46
3:C2:72:ASN:HD21	3:C2:122:VAL:HG22	1.80	0.46
2:D2:84:CYS:CA	11:D2:201:CYC:HAC1	2.31	0.46
3:I2:149:THR:O	11:I2:202:CYC:NC	2.45	0.46
3:P2:72:ASN:HD21	3:P2:122:VAL:HG22	1.80	0.46
3:X2:110:LEU:HD21	3:X2:167:ALA:HA	1.98	0.46
11:X2:202:CYC:CMA	11:X2:202:CYC:HBA2	2.44	0.46
3:Z2:144:ASP:HA	3:Z2:145:PRO:HD3	1.78	0.46
5:13:234:ASP:HB3	5:13:250:PRO:HA	1.98	0.46
5:13:490:GLN:OE1	5:13:649:ARG:NH1	2.48	0.46
7:d3:78:THR:HG22	1:A6:199:ALA:HB3	1.92	0.46
7:o3:75:GLU:CD	1:A5:223:ARG:CG	2.72	0.46
7:y3:76:GLU:O	7:y3:80:THR:OG1	2.34	0.46
3:C4:145:PRO:CA	11:C4:201:CYC:HMC3	2.45	0.46
2:H4:86:ARG:HH22	11:M4:201:CYC:H2A	1.51	0.46
2:S4:22:THR:CG2	2:Y4:102:GLY:O	2.63	0.46
3:V4:47:ASN:HB2	3:V4:141:ILE:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V4:77:ARG:HB3	2:W4:113:ALA:HB3	1.98	0.46
3:G5:162:LEU:O	3:G5:166:THR:OG1	2.32	0.46
3:I5:143:MET:O	11:I5:202:CYC:CMC	2.63	0.46
3:K5:143:MET:O	11:K5:202:CYC:CMC	2.63	0.46
4:N5:172:ARG:HB2	4:N5:176:ASN:HD22	1.80	0.46
2:U5:129:TYR:CE1	11:U5:201:CYC:HBC2	2.48	0.46
2:U5:155:ASP:HA	2:U5:158:ILE:HD12	1.97	0.46
3:I6:40:ALA:O	3:I6:44:MET:CB	2.64	0.46
6:G7:35:ASN:O	6:G7:38:ARG:HG2	2.15	0.46
7:Q7:22:GLU:HG3	7:Q7:25:ARG:HH11	1.80	0.46
7:S7:39:ILE:HG12	7:S7:145:ASP:HB3	1.97	0.46
7:S7:62:ARG:NH1	7:S7:124:ASP:OD1	2.47	0.46
7:Z7:39:ILE:HG12	7:Z7:145:ASP:HB3	1.97	0.46
1:A8:68:SER:HB3	11:I8:201:CYC:HMA2	1.98	0.46
3:G8:139:VAL:C	3:G8:142:VAL:HG13	2.37	0.46
2:L8:150:THR:CG2	2:L8:154:ILE:HD12	2.46	0.46
2:O8:73:ASN:O	11:O8:201:CYC:CMD	2.63	0.46
2:U8:24:LEU:HD13	11:V8:202:CYC:HBB3	1.98	0.46
3:V8:40:ALA:HB3	3:V8:156:LEU:HD21	1.95	0.46
1:A1:203:PHE:CD2	1:A8:215:PRO:CB	2.98	0.46
3:K1:77:ARG:HB2	2:L1:113:ALA:HB3	1.96	0.46
3:M1:86:MET:HB3	3:M1:134:MET:HE1	1.98	0.46
2:Q1:49:ASP:OD2	2:Q1:49:ASP:N	2.47	0.46
3:X1:162:LEU:O	3:X1:166:THR:OG1	2.32	0.46
5:03:490:GLN:OE1	5:03:649:ARG:NH1	2.48	0.46
5:03:853:LEU:HD13	8:x3:87:TYR:CE1	2.51	0.46
6:33:45:LYS:HG2	8:n3:107:ARG:HH12	1.81	0.46
8:Y3:102:SER:O	8:Y3:106:GLU:HB2	2.16	0.46
7:Z3:76:GLU:O	7:Z3:80:THR:OG1	2.34	0.46
8:h3:3:ASP:OD2	8:h3:3:ASP:N	2.37	0.46
8:j3:145:ALA:HA	8:j3:148:GLU:HG2	1.97	0.46
7:k3:76:GLU:O	7:k3:80:THR:OG1	2.34	0.46
7:u3:64:ASP:HB3	7:Q7:67:SER:HB2	1.97	0.46
7:w3:51:ILE:CG2	1:A4:218:PHE:HE1	2.21	0.46
7:w3:77:MET:HE1	11:w3:1001:CYC:O1D	2.16	0.46
7:w3:82:LEU:CB	1:A4:218:PHE:CD1	2.89	0.46
2:D4:73:ASN:O	11:D4:201:CYC:CMD	2.63	0.46
3:I4:65:GLN:HE21	3:P4:65:GLN:NE2	2.14	0.46
2:J4:150:THR:CG2	2:J4:154:ILE:CD1	2.93	0.46
2:L4:150:THR:CG2	2:L4:154:ILE:HD12	2.46	0.46
11:P4:202:CYC:CMA	2:W4:32:ARG:HH21	2.02	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R4:201:CYC:CMA	11:R4:201:CYC:HBA2	2.44	0.46
3:T4:3:ASP:HB3	3:T4:6:THR:HG23	1.98	0.46
2:U4:28:TYR:CE2	11:V4:202:CYC:NB	2.84	0.46
2:W4:83:LYS:HZ1	11:W4:201:CYC:H2A	1.50	0.46
2:Y4:73:ASN:O	11:Y4:201:CYC:CMD	2.63	0.46
1:A5:41:ASP:HA	1:A5:44:VAL:HG12	1.98	0.46
2:H5:155:ASP:HA	2:H5:158:ILE:HD12	1.97	0.46
2:L5:24:LEU:HD12	11:M5:202:CYC:HBB1	1.96	0.46
4:N5:204:PRO:HG2	3:T5:111:ASN:HB3	1.97	0.46
2:O5:49:ASP:OD2	2:O5:49:ASP:N	2.47	0.46
1:A6:165:ALA:HB3	3:E6:77:ARG:HD2	1.97	0.46
11:E6:202:CYC:CBD	11:E6:202:CYC:CHA	2.86	0.46
2:J6:146:ALA:O	2:J6:150:THR:OG1	2.32	0.46
3:M6:65:GLN:H	3:M6:65:GLN:HG3	1.48	0.46
4:N6:45:ASN:ND2	4:N6:174:TYR:O	2.48	0.46
3:Z6:72:ASN:HD21	3:Z6:122:VAL:HG22	1.80	0.46
7:E7:39:ILE:HG12	7:E7:145:ASP:HB3	1.97	0.46
7:O7:22:GLU:HG3	7:O7:25:ARG:HH11	1.80	0.46
8:P7:157:CYS:O	8:P7:161:SER:OG	2.33	0.46
7:S7:72:ALA:CB	11:S7:1001:CYC:OC	2.63	0.46
7:X7:16:ARG:NH2	7:X7:17:TYR:O	2.48	0.46
1:A8:52:GLN:HE22	1:A8:157:PRO:HB2	1.81	0.46
1:A8:71:ARG:HB2	11:I8:201:CYC:HBA2	1.97	0.46
3:E8:24:LEU:HD23	3:E8:24:LEU:HA	1.81	0.46
2:F8:135:HIS:O	2:F8:139:ASN:HB2	2.15	0.46
3:K8:3:ASP:HB3	3:K8:6:THR:HG23	1.98	0.46
2:U8:28:TYR:CZ	11:V8:202:CYC:C1B	2.98	0.46
2:J1:58:ALA:CB	2:J8:64:PRO:CB	2.92	0.46
3:P1:86:MET:HB3	3:P1:134:MET:HE1	1.98	0.46
3:R1:86:MET:HB3	3:R1:134:MET:HE1	1.98	0.46
3:Z1:162:LEU:O	3:Z1:166:THR:OG1	2.32	0.46
2:B2:73:ASN:OD1	2:B2:73:ASN:N	2.42	0.46
3:E2:72:ASN:HD21	3:E2:122:VAL:HG22	1.80	0.46
3:I2:65:GLN:H	3:I2:65:GLN:HG3	1.47	0.46
3:I2:112:GLY:HA3	4:N2:226:LEU:HA	1.98	0.46
3:K2:72:ASN:HD21	3:K2:122:VAL:HG22	1.80	0.46
3:R2:33:GLU:HB2	3:R2:36:LYS:NZ	2.27	0.46
5:03:525:PHE:CZ	7:C7:102:THR:HG21	2.51	0.46
5:13:808:GLN:NE2	5:13:880:PHE:H	2.14	0.46
7:G3:81:CYS:SG	11:G3:1001:CYC:HAC2	2.54	0.46
7:I3:18:LEU:HD12	8:J3:97:LEU:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N3:76:GLU:O	7:N3:80:THR:OG1	2.34	0.46
9:Q3:119:SER:OG	9:Q3:120:LEU:N	2.48	0.46
7:T3:77:MET:HE1	11:T3:1001:CYC:O1D	2.16	0.46
8:W3:145:ALA:HA	8:W3:148:GLU:HG2	1.97	0.46
8:Y3:145:ALA:HA	8:Y3:148:GLU:HG2	1.97	0.46
7:Z3:69:GLY:CA	7:H7:64:ASP:OD2	2.64	0.46
7:b3:5:THR:OG1	8:c3:3:ASP:OD2	2.34	0.46
8:h3:102:SER:O	8:h3:106:GLU:HB2	2.16	0.46
10:m3:27:LYS:HD2	8:n3:38:VAL:HG11	1.98	0.46
10:m3:39:ILE:HG13	10:m3:141:LEU:HD22	1.96	0.46
2:D4:23:GLU:N	2:D4:23:GLU:OE1	2.49	0.46
3:E4:24:LEU:HD23	3:E4:24:LEU:HA	1.81	0.46
2:F4:36:PHE:CZ	2:F4:149:GLU:CD	2.93	0.46
4:N4:43:LEU:HD22	4:N4:84:LYS:HD2	1.98	0.46
3:V4:3:ASP:HB3	3:V4:6:THR:HG23	1.98	0.46
3:Z4:151:GLY:N	11:Z4:202:CYC:C4B	2.62	0.46
1:A5:211:GLN:NE2	1:A5:211:GLN:CA	2.73	0.46
2:D5:30:ARG:NH2	2:D5:101:ALA:O	2.49	0.46
3:K5:162:LEU:O	3:K5:166:THR:OG1	2.32	0.46
2:L5:49:ASP:OD2	2:L5:49:ASP:N	2.47	0.46
2:O5:111:LEU:CD2	11:O5:201:CYC:CAB	2.78	0.46
2:Q5:2:LYS:H	2:Q5:105:GLY:HA3	1.80	0.46
3:R5:57:ARG:HE	3:R5:57:ARG:HB2	1.46	0.46
3:R5:143:MET:O	11:R5:202:CYC:CMC	2.63	0.46
2:U5:30:ARG:NH2	2:U5:101:ALA:O	2.49	0.46
3:Z5:86:MET:HB3	3:Z5:134:MET:HE1	1.98	0.46
2:D6:2:LYS:NZ	2:L6:17:ARG:HD2	2.31	0.46
3:K6:151:GLY:CA	11:K6:202:CYC:HMD1	2.41	0.46
4:N6:74:ALA:O	4:N6:78:SER:OG	2.33	0.46
2:O6:84:CYS:HB2	11:O6:201:CYC:C4C	2.45	0.46
3:V6:34:GLY:O	3:V6:38:SER:OG	2.31	0.46
3:V6:57:ARG:HE	3:V6:57:ARG:CA	2.12	0.46
8:I7:13:ASP:OD2	6:N7:63:ASN:ND2	2.45	0.46
7:L7:39:ILE:HG12	7:L7:145:ASP:HB3	1.97	0.46
7:L7:72:ALA:CB	11:L7:1001:CYC:OC	2.63	0.46
7:V7:16:ARG:NH2	7:V7:17:TYR:O	2.48	0.46
7:X7:39:ILE:HG12	7:X7:145:ASP:HB3	1.97	0.46
2:D8:23:GLU:N	2:D8:23:GLU:OE1	2.49	0.46
3:M8:65:GLN:OE1	3:R8:65:GLN:HB2	2.16	0.46
2:S8:22:THR:CG2	2:Y8:102:GLY:O	2.63	0.46
2:Y8:73:ASN:O	11:Y8:201:CYC:CMD	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:203:PHE:HE1	1:A1:204:ARG:CG	2.26	0.46
2:B1:30:ARG:NH2	2:B1:101:ALA:O	2.49	0.46
2:D1:137:LYS:HA	2:D1:140:HIS:HD2	1.81	0.46
3:I1:86:MET:HB3	3:I1:134:MET:HE1	1.98	0.46
2:O1:155:ASP:HA	2:O1:158:ILE:HD12	1.97	0.46
2:U1:24:LEU:HD12	11:U1:202:CYC:HBB1	1.97	0.46
1:A2:201:ARG:HE	7:N3:52:LYS:HZ1	1.61	0.46
3:K2:111:ASN:HD22	4:N2:218:ASP:CB	2.26	0.46
5:03:451:GLU:HG3	5:03:655:GLY:HA3	1.97	0.46
7:G3:77:MET:HE1	11:G3:1001:CYC:O1D	2.16	0.46
8:U3:145:ALA:HA	8:U3:148:GLU:HG2	1.97	0.46
7:Z3:25:ARG:CD	7:L7:25:ARG:NE	2.42	0.46
8:a3:145:ALA:HA	8:a3:148:GLU:HG2	1.97	0.46
8:c3:145:ALA:HA	8:c3:148:GLU:HG2	1.97	0.46
8:n3:157:CYS:O	8:n3:161:SER:OG	2.28	0.46
7:o3:16:ARG:O	8:p3:94:TYR:OH	2.28	0.46
8:p3:102:SER:O	8:p3:106:GLU:HB2	2.16	0.46
8:t3:102:SER:O	8:t3:106:GLU:HB2	2.16	0.46
8:x3:102:SER:O	8:x3:106:GLU:HB2	2.16	0.46
1:A4:68:SER:HB3	11:I4:201:CYC:HMA2	1.98	0.46
2:B4:73:ASN:O	11:G4:201:CYC:CMD	2.63	0.46
2:O4:36:PHE:HE1	2:O4:149:GLU:CB	2.29	0.46
2:S4:73:ASN:O	11:S4:201:CYC:CMD	2.63	0.46
3:T4:156:LEU:HA	3:T4:156:LEU:HD23	1.84	0.46
3:Z4:37:ARG:HB2	3:Z4:37:ARG:CZ	2.45	0.46
2:B5:49:ASP:OD2	2:B5:49:ASP:N	2.47	0.46
2:L5:30:ARG:NH2	2:L5:101:ALA:O	2.49	0.46
4:N5:240:ARG:N	4:N5:286:SER:O	2.47	0.46
2:U5:24:LEU:HD12	11:U5:202:CYC:HBB1	1.97	0.46
11:U5:202:CYC:CMC	3:V5:143:MET:O	2.63	0.46
2:W5:30:ARG:NH2	2:W5:101:ALA:O	2.49	0.46
2:B6:24:LEU:HB3	11:C6:202:CYC:CBB	2.23	0.46
3:I6:53:THR:O	3:I6:57:ARG:HB2	2.16	0.46
3:V6:33:GLU:HB3	3:V6:36:LYS:HZ3	1.81	0.46
3:X6:65:GLN:H	3:X6:65:GLN:HG3	1.47	0.46
8:P7:126:THR:HG1	11:P7:1001:CYC:HMC1	1.81	0.46
7:S7:115:MET:HB2	7:S7:115:MET:HE3	1.73	0.46
2:B8:83:LYS:HZ2	11:G8:201:CYC:CGA	2.22	0.46
11:I8:203:CYC:CMD	2:J8:73:ASN:O	2.63	0.46
2:J8:135:HIS:O	2:J8:139:ASN:HB2	2.14	0.46
2:O8:103:GLY:HA2	2:W8:22:THR:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U8:24:LEU:HD11	3:V8:42:SER:HB2	1.93	0.46
3:C1:143:MET:O	11:C1:201:CYC:CMC	2.63	0.46
2:H1:155:ASP:HA	2:H1:158:ILE:HD12	1.97	0.46
2:J1:138:ALA:CA	2:B8:64:PRO:HB3	2.45	0.46
2:L1:137:LYS:HA	2:L1:140:HIS:HD2	1.81	0.46
3:T1:86:MET:HB3	3:T1:134:MET:HE1	1.98	0.46
2:U1:155:ASP:HA	2:U1:158:ILE:HD12	1.97	0.46
1:A2:201:ARG:CA	7:N3:52:LYS:HE2	2.46	0.46
2:B2:17:ARG:NH1	2:H2:104:THR:OG1	2.49	0.46
3:G2:151:GLY:H	11:G2:201:CYC:C1C	2.24	0.46
3:K2:65:GLN:H	3:K2:65:GLN:HG3	1.48	0.46
4:N2:45:ASN:ND2	4:N2:174:TYR:O	2.48	0.46
3:X2:106:ASN:OD1	3:X2:110:LEU:HD12	2.16	0.46
5:03:521:THR:CG2	5:03:524:SER:CB	2.91	0.46
5:13:140:TYR:HB3	5:13:144:ASN:HB2	1.97	0.46
8:H3:102:SER:O	8:H3:106:GLU:HB2	2.16	0.46
7:I3:6:LYS:NZ	7:A7:10:ASN:HD22	2.13	0.46
7:Z3:77:MET:HE1	11:Z3:1001:CYC:O1D	2.16	0.46
7:f3:77:MET:HE1	11:f3:1001:CYC:O1D	2.16	0.46
9:g3:60:PHE:HB3	9:g3:67:LEU:HD11	1.98	0.46
7:i3:77:MET:HE1	11:i3:1001:CYC:O1D	2.16	0.46
8:r3:157:CYS:O	8:r3:161:SER:OG	2.28	0.46
7:s3:77:MET:HE1	11:s3:1001:CYC:O1D	2.16	0.46
7:u3:77:MET:HE2	1:A8:201:ARG:O	2.15	0.46
7:y3:77:MET:HE1	11:y3:1001:CYC:O1D	2.16	0.46
2:O4:24:LEU:HB3	11:P4:202:CYC:HBB2	1.98	0.46
2:U4:24:LEU:HD13	11:V4:202:CYC:HBB3	1.98	0.46
3:V4:24:LEU:HD23	3:V4:24:LEU:HA	1.81	0.46
2:W4:73:ASN:O	11:W4:201:CYC:CMD	2.63	0.46
2:W4:83:LYS:HZ2	11:W4:201:CYC:CGA	2.23	0.46
2:O5:24:LEU:HD12	11:P5:202:CYC:HBB2	1.92	0.46
3:P5:143:MET:O	11:P5:202:CYC:CMC	2.63	0.46
1:A6:114:ARG:NH2	1:A6:121:GLU:OE2	2.46	0.46
2:B6:22:THR:HG22	2:H6:4:PRO:HD3	1.98	0.46
2:H6:84:CYS:CA	11:H6:201:CYC:HAC1	2.31	0.46
3:K6:37:ARG:HB3	3:K6:37:ARG:CZ	2.45	0.46
3:M6:72:ASN:HD21	3:M6:122:VAL:HG22	1.80	0.46
3:P6:102:ALA:O	3:P6:106:ASN:ND2	2.44	0.46
3:P6:111:ASN:OD1	3:P6:111:ASN:N	2.37	0.46
3:R6:57:ARG:CZ	11:R6:202:CYC:O1D	2.56	0.46
11:R6:202:CYC:C4C	2:S6:84:CYS:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V6:72:ASN:HD21	3:V6:122:VAL:HG22	1.80	0.46
3:X6:110:LEU:HD21	3:X6:167:ALA:HA	1.98	0.46
3:Z6:151:GLY:O	11:Z6:202:CYC:OB	2.33	0.46
8:B7:125:SER:OG	11:B7:1001:CYC:CMC	2.63	0.46
6:G7:42:ARG:HG2	6:G7:46:MET:HE2	1.96	0.46
8:K7:157:CYS:O	8:K7:161:SER:OG	2.33	0.46
1:A8:146:GLU:OE2	1:A8:160:ARG:NH1	2.44	0.46
3:I8:3:ASP:HB3	3:I8:6:THR:HG23	1.98	0.46
2:J8:24:LEU:HB3	11:K8:202:CYC:CBB	2.45	0.46
2:S8:73:ASN:O	11:S8:201:CYC:CMD	2.63	0.46
3:V8:77:ARG:HB3	2:W8:113:ALA:HB3	1.98	0.46
2:J1:30:ARG:NH2	2:J1:101:ALA:O	2.49	0.46
3:K1:86:MET:HB3	3:K1:134:MET:HE1	1.98	0.46
2:W1:30:ARG:NH2	2:W1:101:ALA:O	2.49	0.46
2:Y1:137:LYS:HA	2:Y1:140:HIS:HD2	1.81	0.46
1:A2:165:ALA:HB3	3:E2:77:ARG:HD2	1.97	0.46
4:N2:55:THR:HA	4:N2:58:GLU:HB3	1.98	0.46
3:X2:72:ASN:HD21	3:X2:122:VAL:HG22	1.80	0.46
5:13:22:LEU:HD11	8:h3:2:GLN:HA	1.98	0.46
5:13:521:THR:HG23	5:13:524:SER:CB	2.46	0.46
8:H3:145:ALA:HA	8:H3:148:GLU:HG2	1.97	0.46
8:L3:102:SER:O	8:L3:106:GLU:HB2	2.16	0.46
8:O3:102:SER:O	8:O3:106:GLU:HB2	2.16	0.46
7:d3:77:MET:HE1	11:d3:1001:CYC:O1D	2.16	0.46
8:e3:145:ALA:HA	8:e3:148:GLU:HG2	1.97	0.46
8:r3:145:ALA:HA	8:r3:148:GLU:HG2	1.97	0.46
8:v3:62:TYR:CZ	1:A5:203:PHE:CA	2.99	0.46
2:B4:150:THR:CG2	2:B4:154:ILE:HD12	2.35	0.46
2:D4:19:LEU:HD22	3:E4:95:TYR:CE1	2.26	0.46
2:L4:73:ASN:O	11:L4:201:CYC:CMD	2.63	0.46
4:N4:166:ARG:HD3	4:N4:189:LEU:HD13	1.97	0.46
2:U4:28:TYR:CZ	11:V4:202:CYC:C1B	2.98	0.46
1:A5:65:LEU:O	1:A5:68:SER:OG	2.32	0.46
2:B5:30:ARG:NH2	2:B5:101:ALA:O	2.49	0.46
3:E5:57:ARG:HH12	11:F5:201:CYC:CGD	2.26	0.46
2:S5:30:ARG:NH2	2:S5:101:ALA:O	2.49	0.46
3:V5:86:MET:HB3	3:V5:134:MET:HE1	1.98	0.46
3:X5:162:LEU:O	3:X5:166:THR:OG1	2.32	0.46
2:Y5:49:ASP:OD2	2:Y5:49:ASP:N	2.47	0.46
2:F6:73:ASN:OD1	2:F6:73:ASN:N	2.42	0.46
2:F6:84:CYS:HB2	11:F6:201:CYC:C4C	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H6:84:CYS:HB2	11:H6:201:CYC:C4C	2.45	0.46
2:L6:84:CYS:HB2	11:L6:201:CYC:C4C	2.45	0.46
3:M6:92:TYR:CE1	3:M6:108:ARG:HG3	2.51	0.46
2:W6:84:CYS:HB2	11:W6:201:CYC:C4C	2.45	0.46
3:X6:106:ASN:OD1	3:X6:110:LEU:HD12	2.16	0.46
8:B7:126:THR:OG1	11:B7:1001:CYC:CMC	2.63	0.46
7:H7:62:ARG:NH1	7:H7:124:ASP:OD1	2.48	0.46
8:I7:157:CYS:O	8:I7:161:SER:OG	2.33	0.46
7:J7:18:LEU:HD12	8:K7:97:LEU:HD13	1.98	0.46
6:b7:12:SER:OG	6:b7:17:ARG:NH2	2.49	0.46
3:C8:69:PRO:CB	3:E8:16:GLY:HA3	2.41	0.46
2:F8:28:TYR:HB3	2:J8:32:ARG:CD	2.38	0.46
11:F8:201:CYC:CBD	11:F8:201:CYC:CHA	2.86	0.46
2:L8:83:LYS:HZ2	11:L8:201:CYC:CGA	2.26	0.46
1:A1:41:ASP:HA	1:A1:44:VAL:HG12	1.98	0.46
2:B1:137:LYS:HA	2:B1:140:HIS:HD2	1.81	0.46
3:G1:86:MET:HB3	3:G1:134:MET:HE1	1.98	0.46
3:K1:84:ARG:HH11	4:N1:251:TYR:CB	2.16	0.46
11:N1:301:CYC:HMC2	3:T1:126:SER:OG	2.16	0.46
2:Q1:30:ARG:NH2	2:Q1:101:ALA:O	2.49	0.46
2:S1:30:ARG:NH2	2:S1:101:ALA:O	2.49	0.46
3:G2:72:ASN:HD21	3:G2:122:VAL:HG22	1.80	0.46
3:V2:72:ASN:HD21	3:V2:122:VAL:HG22	1.80	0.46
5:03:234:ASP:OD1	5:03:234:ASP:N	2.36	0.46
5:03:460:LYS:HG3	5:03:463:ARG:H	1.80	0.46
5:03:612:ASN:ND2	5:03:612:ASN:C	2.74	0.46
5:03:719:THR:HA	6:U7:23:GLN:OE1	2.10	0.46
5:03:808:GLN:NE2	5:03:880:PHE:H	2.14	0.46
5:13:777:GLU:HG3	7:V7:14:GLU:OE2	2.16	0.46
7:G3:76:GLU:O	7:G3:80:THR:OG1	2.34	0.46
7:G3:81:CYS:SG	11:G3:1001:CYC:CAC	3.04	0.46
7:K3:76:GLU:O	7:K3:80:THR:OG1	2.34	0.46
7:P3:77:MET:HE1	11:P3:1001:CYC:O1D	2.16	0.46
9:Q3:66:LEU:HA	9:Q3:71:GLY:HA3	1.99	0.46
7:R3:81:CYS:SG	11:R3:1001:CYC:CAC	3.04	0.46
7:T3:81:CYS:SG	11:T3:1001:CYC:CAC	3.04	0.46
7:X3:64:ASP:O	7:J7:64:ASP:OD1	2.33	0.46
7:Z3:12:ASP:OD1	8:a3:91:TYR:CZ	2.69	0.46
8:c3:157:CYS:O	8:c3:161:SER:OG	2.28	0.46
7:q3:64:ASP:OD2	7:V7:70:GLY:CA	2.64	0.46
8:r3:75:THR:HB	7:s3:111:GLY:C	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:z3:3:ASP:OD2	8:z3:6:THR:OG1	2.30	0.46
1:A4:52:GLN:HE22	1:A4:157:PRO:HB2	1.81	0.46
2:D4:73:ASN:O	11:D4:201:CYC:HMD3	2.16	0.46
3:E4:3:ASP:HB3	3:E4:6:THR:HG23	1.98	0.46
11:E4:203:CYC:CMD	2:F4:73:ASN:O	2.63	0.46
2:H4:140:HIS:HE1	2:H4:142:LEU:HB2	1.80	0.46
3:I4:151:GLY:H	11:I4:202:CYC:HC	1.64	0.46
2:J4:149:GLU:CG	2:J4:153:TYR:HE2	2.28	0.46
3:M4:65:GLN:OE1	3:R4:65:GLN:HB2	2.16	0.46
11:P4:203:CYC:CMD	2:Q4:73:ASN:O	2.63	0.46
2:Q4:23:GLU:N	2:Q4:23:GLU:OE1	2.49	0.46
2:U4:73:ASN:O	11:U4:201:CYC:CMD	2.63	0.46
2:Y4:134:LYS:CA	2:Y4:137:LYS:HG2	2.45	0.46
2:O5:137:LYS:HA	2:O5:140:HIS:HD2	1.81	0.46
3:T5:143:MET:O	11:T5:201:CYC:CMC	2.63	0.46
3:T5:162:LEU:O	3:T5:166:THR:OG1	2.32	0.46
2:U5:137:LYS:HA	2:U5:140:HIS:HD2	1.81	0.46
2:Y5:2:LYS:H	2:Y5:105:GLY:HA3	1.81	0.46
1:A6:161:ARG:NH2	11:E6:201:CYC:O1A	2.49	0.46
2:B6:17:ARG:NH1	2:H6:104:THR:OG1	2.49	0.46
2:H6:28:TYR:CE1	3:I6:35:THR:OG1	2.69	0.46
3:M6:110:LEU:CD2	3:M6:170:ALA:HB3	2.34	0.46
8:I7:110:ASN:HD21	6:N7:56:ALA:C	2.22	0.46
7:V7:62:ARG:NH1	7:V7:124:ASP:OD1	2.47	0.46
7:X7:22:GLU:HG3	7:X7:25:ARG:HH11	1.80	0.46
7:X7:115:MET:HB2	7:X7:115:MET:HE3	1.73	0.46
1:A8:22:VAL:O	1:A8:27:GLN:NE2	2.49	0.46
3:C8:24:LEU:HD23	3:C8:24:LEU:HA	1.81	0.46
11:E8:203:CYC:HMD3	2:F8:73:ASN:O	2.17	0.46
2:H8:73:ASN:O	11:M8:201:CYC:HMD3	2.16	0.46
2:H8:83:LYS:HZ1	11:M8:201:CYC:H2A	1.59	0.46
3:M8:3:ASP:HB3	3:M8:6:THR:HG23	1.98	0.46
4:N8:43:LEU:HD22	4:N8:84:LYS:HD2	1.98	0.46
3:V8:3:ASP:HB3	3:V8:6:THR:HG23	1.98	0.46
2:W8:73:ASN:O	11:W8:201:CYC:HMD3	2.16	0.46
1:A1:181:TYR:HB2	3:G1:120:LEU:HD23	1.97	0.45
2:F1:129:TYR:CE1	11:F1:201:CYC:HBC2	2.48	0.45
2:J1:139:ASN:OD1	2:B8:64:PRO:CG	2.54	0.45
3:K1:126:SER:OG	11:K1:201:CYC:HMC2	2.16	0.45
2:W1:137:LYS:HA	2:W1:140:HIS:HD2	1.81	0.45
2:W1:155:ASP:HA	2:W1:158:ILE:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:84:CYS:HB2	11:B2:201:CYC:C4C	2.45	0.45
2:H2:79:ARG:HH22	3:M2:57:ARG:NH1	2.14	0.45
3:I2:3:ASP:N	3:I2:6:THR:OG1	2.41	0.45
11:I2:203:CYC:C4C	2:J2:84:CYS:HB2	2.45	0.45
3:M2:126:SER:OG	11:M2:201:CYC:CMC	2.65	0.45
4:N2:98:ASN:HD21	4:N2:125:PHE:HE1	1.63	0.45
5:03:234:ASP:HB3	5:03:250:PRO:HA	1.98	0.45
5:03:714:LYS:HE3	7:y3:13:ALA:HB3	1.98	0.45
7:G3:105:GLU:OE1	7:G3:155:TYR:OH	2.34	0.45
7:I3:81:CYS:SG	11:I3:1001:CYC:CAC	3.04	0.45
7:I3:151:ALA:O	7:A7:20:PRO:HG3	2.16	0.45
8:O3:3:ASP:OD2	8:O3:6:THR:OG1	2.30	0.45
7:b3:81:CYS:SG	11:b3:1001:CYC:CAC	3.04	0.45
7:d3:52:LYS:HZ3	1:A6:201:ARG:CG	2.26	0.45
7:k3:77:MET:HE1	11:k3:1001:CYC:O1D	2.16	0.45
7:k3:81:CYS:SG	11:k3:1001:CYC:CAC	3.04	0.45
8:l3:145:ALA:HA	8:l3:148:GLU:HG2	1.97	0.45
8:r3:102:SER:O	8:r3:106:GLU:HB2	2.16	0.45
8:x3:75:THR:HB	7:y3:111:GLY:C	2.41	0.45
2:H4:73:ASN:O	11:M4:201:CYC:HMD3	2.16	0.45
3:I4:3:ASP:HB3	3:I4:6:THR:HG23	1.98	0.45
3:R4:140:ALA:HA	3:R4:143:MET:HB3	1.98	0.45
3:Z4:41:VAL:HG21	3:Z4:98:PHE:CA	2.45	0.45
2:D5:24:LEU:CD1	11:D5:201:CYC:HBB2	2.45	0.45
4:N5:133:ILE:HG13	4:N5:138:TYR:CZ	2.51	0.45
3:Z5:143:MET:O	11:Z5:202:CYC:CMC	2.63	0.45
3:C6:3:ASP:N	3:C6:6:THR:OG1	2.41	0.45
3:P6:126:SER:OG	11:P6:201:CYC:CMC	2.65	0.45
2:Q6:84:CYS:HB2	11:Q6:201:CYC:C4C	2.45	0.45
3:X6:72:ASN:HD21	3:X6:122:VAL:HG22	1.80	0.45
7:A7:22:GLU:HG3	7:A7:25:ARG:HH11	1.80	0.45
8:K7:125:SER:OG	11:K7:1001:CYC:CMC	2.63	0.45
8:M7:126:THR:OG1	11:M7:1001:CYC:CMC	2.63	0.45
7:O7:39:ILE:HG12	7:O7:145:ASP:HB3	1.97	0.45
8:P7:125:SER:OG	11:P7:1001:CYC:CMC	2.63	0.45
7:Q7:104:ILE:H	7:Q7:104:ILE:HG13	1.60	0.45
6:U7:8:ALA:HA	6:U7:51:VAL:HG23	1.98	0.45
8:W7:125:SER:OG	11:W7:1001:CYC:CMC	2.63	0.45
1:A8:117:PHE:N	1:A8:121:GLU:OE1	2.42	0.45
2:B8:151:ASN:O	2:B8:155:ASP:HB2	2.17	0.45
11:C8:201:CYC:HMB1	2:H8:148:THR:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D8:148:THR:OG1	11:L8:202:CYC:CMB	2.63	0.45
2:D8:148:THR:OG1	11:L8:202:CYC:HMB1	2.15	0.45
3:I8:151:GLY:H	11:I8:202:CYC:HC	1.64	0.45
2:J8:149:GLU:CG	2:J8:153:TYR:HE2	2.28	0.45
3:K8:15:ARG:CG	3:P8:63:GLN:HE21	2.28	0.45
2:L8:73:ASN:O	11:L8:201:CYC:HMD3	2.17	0.45
11:P8:203:CYC:HMD3	2:Q8:73:ASN:O	2.17	0.45
2:S8:25:GLN:O	2:S8:26:TYR:C	2.59	0.45
3:T8:154:SER:O	3:T8:158:GLN:HB2	2.15	0.45
3:V8:153:CYS:SG	3:V8:156:LEU:HB3	2.56	0.45
3:V8:159:GLU:CG	3:V8:163:TYR:CE2	2.99	0.45
2:Y8:134:LYS:CA	2:Y8:137:LYS:HG2	2.45	0.45
3:Z8:37:ARG:HB2	3:Z8:37:ARG:CZ	2.45	0.45
1:A1:203:PHE:HB2	8:p3:62:TYR:CZ	2.51	0.45
1:A1:211:GLN:NE2	1:A1:212:ALA:HB3	2.30	0.45
2:D1:30:ARG:NH2	2:D1:101:ALA:O	2.49	0.45
3:M1:57:ARG:HE	3:M1:57:ARG:HB2	1.46	0.45
3:M1:126:SER:OG	11:M1:201:CYC:HMC2	2.16	0.45
2:O1:30:ARG:NH2	2:O1:101:ALA:O	2.49	0.45
2:Y1:30:ARG:NH2	2:Y1:101:ALA:O	2.49	0.45
1:A2:201:ARG:NE	7:N3:52:LYS:HZ3	2.13	0.45
2:H2:28:TYR:CZ	3:I2:35:THR:OG1	2.66	0.45
3:K2:126:SER:OG	11:K2:201:CYC:CMC	2.65	0.45
3:T2:72:ASN:HD21	3:T2:122:VAL:HG22	1.80	0.45
3:Z2:126:SER:OG	11:Z2:202:CYC:CMC	2.64	0.45
4:a2:238:VAL:HA	4:a2:264:PRO:HA	1.98	0.45
5:03:477:ARG:HE	8:L3:107:ARG:HE	1.64	0.45
6:23:22:LEU:HD11	8:U3:83:ARG:NH1	2.29	0.45
8:J3:145:ALA:HA	8:J3:148:GLU:HG2	1.97	0.45
7:X3:77:MET:HE1	11:X3:1001:CYC:O1D	2.16	0.45
8:c3:102:SER:O	8:c3:106:GLU:HB2	2.16	0.45
8:l3:102:SER:O	8:l3:106:GLU:HB2	2.16	0.45
7:q3:52:LYS:CG	1:A8:221:MET:HG3	2.44	0.45
8:v3:102:SER:O	8:v3:106:GLU:HB2	2.16	0.45
7:y3:81:CYS:SG	11:y3:1001:CYC:CAC	3.04	0.45
2:B4:73:ASN:O	11:G4:201:CYC:HMD3	2.16	0.45
2:L4:27:LEU:HD13	3:M4:38:SER:HB3	1.98	0.45
3:M4:3:ASP:HB3	3:M4:6:THR:HG23	1.98	0.45
11:P4:203:CYC:HMD3	2:Q4:73:ASN:O	2.16	0.45
2:Q4:36:PHE:HD1	2:Q4:145:ASP:HB2	1.63	0.45
3:R4:3:ASP:HB3	3:R4:6:THR:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S4:73:ASN:O	11:S4:201:CYC:HMD3	2.16	0.45
3:V4:153:CYS:CB	11:V4:202:CYC:CAC	2.89	0.45
2:W4:17:ARG:CB	2:W4:17:ARG:CZ	2.94	0.45
2:W4:150:THR:O	2:W4:153:TYR:CB	2.62	0.45
2:Y4:19:LEU:HD21	3:Z4:95:TYR:CE1	2.52	0.45
11:A5:301:CYC:HMC2	3:C5:126:SER:OG	2.16	0.45
3:E5:86:MET:HB3	3:E5:134:MET:HE1	1.98	0.45
4:N5:248:THR:HB	4:N5:249:PRO:HD3	1.98	0.45
3:P5:126:SER:OG	11:P5:201:CYC:HMC2	2.16	0.45
2:Q5:137:LYS:HA	2:Q5:140:HIS:HD2	1.81	0.45
2:D6:137:LYS:HA	2:D6:140:HIS:HD2	1.82	0.45
3:E6:126:SER:OG	11:E6:201:CYC:CMC	2.65	0.45
3:I6:110:LEU:HD22	3:I6:170:ALA:CB	2.36	0.45
3:M6:153:CYS:CB	11:M6:202:CYC:HAC2	2.43	0.45
2:Q6:24:LEU:HD12	11:R6:201:CYC:HBB1	1.98	0.45
3:X6:146:ALA:C	3:X6:148:VAL:N	2.74	0.45
7:J7:16:ARG:NH2	7:J7:17:TYR:O	2.48	0.45
7:O7:81:CYS:SG	11:O7:1001:CYC:C2C	2.95	0.45
8:W7:157:CYS:O	8:W7:161:SER:OG	2.33	0.45
8:Y7:126:THR:OG1	11:Y7:1001:CYC:CMC	2.63	0.45
11:Y7:1001:CYC:HAA1	6:b7:25:THR:HG21	1.99	0.45
7:Z7:72:ALA:CB	11:Z7:1001:CYC:OC	2.63	0.45
8:a7:81:CYS:HG	11:a7:1001:CYC:HAC2	1.66	0.45
8:a7:157:CYS:O	8:a7:161:SER:OG	2.33	0.45
3:G8:3:ASP:HB3	3:G8:6:THR:HG23	1.98	0.45
3:M8:67:ILE:CD1	11:M8:201:CYC:H2A	2.27	0.45
2:S8:150:THR:HG21	2:S8:154:ILE:HD11	1.95	0.45
2:U8:18:PHE:CE1	3:V8:91:ARG:CA	3.00	0.45
3:C1:86:MET:HB3	3:C1:134:MET:HE1	1.98	0.45
3:E1:86:MET:HB3	3:E1:134:MET:HE1	1.98	0.45
3:I1:126:SER:OG	11:I1:201:CYC:HMC2	2.16	0.45
2:J1:106:PRO:HG3	3:K1:9:VAL:HG11	1.97	0.45
2:J1:137:LYS:HA	2:J1:140:HIS:HD2	1.81	0.45
3:M1:143:MET:O	11:M1:202:CYC:CMC	2.63	0.45
2:U1:30:ARG:NH2	2:U1:101:ALA:O	2.49	0.45
1:A2:161:ARG:NH2	11:E2:201:CYC:O1A	2.49	0.45
2:B2:137:LYS:HA	2:B2:140:HIS:HD2	1.82	0.45
3:C2:36:LYS:NZ	11:C2:202:CYC:CGD	2.70	0.45
3:C2:126:SER:OG	11:C2:201:CYC:CMC	2.65	0.45
2:D2:137:LYS:HA	2:D2:140:HIS:HD2	1.82	0.45
2:H2:137:LYS:HA	2:H2:140:HIS:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J2:137:LYS:HA	2:J2:140:HIS:HD2	1.82	0.45
3:M2:37:ARG:HA	3:M2:156:LEU:CD1	2.47	0.45
3:Z2:65:GLN:H	3:Z2:65:GLN:HG3	1.48	0.45
5:03:665:ALA:N	8:H3:105:ASP:OD2	2.49	0.45
5:13:265:MET:HE3	5:13:305:VAL:HG12	1.99	0.45
7:K3:81:CYS:SG	11:K3:1001:CYC:CAC	3.04	0.45
7:T3:90:ARG:HD2	8:U3:17:LYS:O	2.16	0.45
8:W3:102:SER:O	8:W3:106:GLU:HB2	2.16	0.45
7:X3:81:CYS:SG	11:X3:1001:CYC:CAC	3.04	0.45
8:a3:102:SER:O	8:a3:106:GLU:HB2	2.16	0.45
8:a3:157:CYS:O	8:a3:161:SER:OG	2.28	0.45
8:p3:3:ASP:OD2	8:p3:6:THR:OG1	2.30	0.45
7:s3:76:GLU:O	7:s3:80:THR:OG1	2.34	0.45
8:v3:62:TYR:CZ	1:A5:203:PHE:CB	2.99	0.45
7:w3:105:GLU:OE1	7:w3:155:TYR:OH	2.34	0.45
1:A4:204:ARG:NH1	1:A5:219:LEU:HD23	2.23	0.45
3:E4:39:ASP:OD2	11:E4:202:CYC:HMB2	2.09	0.45
3:G4:3:ASP:HB3	3:G4:6:THR:HG23	1.97	0.45
2:H4:24:LEU:HD11	3:I4:42:SER:HB3	1.97	0.45
2:L4:17:ARG:CB	2:L4:17:ARG:HH11	2.29	0.45
3:Z4:36:LYS:C	3:Z4:156:LEU:HD11	2.41	0.45
2:F5:30:ARG:NH2	2:F5:101:ALA:O	2.49	0.45
2:F5:49:ASP:N	2:F5:49:ASP:OD2	2.47	0.45
2:O5:30:ARG:NH2	2:O5:101:ALA:O	2.49	0.45
2:Q5:30:ARG:NH2	2:Q5:101:ALA:O	2.49	0.45
11:V5:201:CYC:HAA1	4:a5:268:LEU:HD23	1.97	0.45
2:Y5:30:ARG:NH2	2:Y5:101:ALA:O	2.49	0.45
11:A6:301:CYC:CMC	3:G6:126:SER:OG	2.65	0.45
3:M6:37:ARG:HA	3:M6:156:LEU:CD1	2.47	0.45
3:V6:3:ASP:N	3:V6:6:THR:OG1	2.41	0.45
3:X6:126:SER:OG	11:X6:201:CYC:CMC	2.65	0.45
7:J7:72:ALA:CB	11:J7:1001:CYC:OC	2.63	0.45
7:L7:62:ARG:NH1	7:L7:124:ASP:OD1	2.47	0.45
7:V7:39:ILE:HG12	7:V7:145:ASP:HB3	1.97	0.45
3:C8:153:CYS:SG	11:C8:201:CYC:HAC1	2.44	0.45
3:G8:40:ALA:CB	3:G8:156:LEU:HD13	2.40	0.45
2:H8:24:LEU:HD11	3:I8:42:SER:HB3	1.97	0.45
2:L8:17:ARG:CB	2:L8:17:ARG:HH11	2.29	0.45
3:R8:149:THR:OG1	11:R8:201:CYC:HAD1	2.17	0.45
2:U8:73:ASN:O	11:U8:201:CYC:CMD	2.63	0.45
2:W8:17:ARG:NH1	2:W8:17:ARG:CB	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:30:ARG:NH2	2:H1:101:ALA:O	2.49	0.45
3:K1:75:THR:HG22	2:L1:110:TYR:HA	1.99	0.45
2:L1:30:ARG:NH2	2:L1:101:ALA:O	2.49	0.45
4:N1:133:ILE:HG13	4:N1:138:TYR:CZ	2.52	0.45
4:N1:265:VAL:HA	4:N1:268:LEU:HB2	1.99	0.45
2:F2:137:LYS:HA	2:F2:140:HIS:HD2	1.82	0.45
11:N2:301:CYC:CMC	3:R2:126:SER:OG	2.65	0.45
11:N2:302:CYC:CMC	3:T2:126:SER:OG	2.65	0.45
4:a2:263:VAL:HG23	4:a2:267:ARG:HG3	1.97	0.45
5:13:524:SER:C	7:J7:106:GLU:OE2	2.58	0.45
7:I3:77:MET:HE1	11:I3:1001:CYC:O1D	2.16	0.45
8:J3:42:SER:O	7:A7:154:ASP:OD1	2.34	0.45
8:J3:157:CYS:O	8:J3:161:SER:OG	2.28	0.45
8:M3:102:SER:O	8:M3:106:GLU:HB2	2.16	0.45
8:S3:102:SER:O	8:S3:106:GLU:HB2	2.16	0.45
7:X3:30:VAL:HG13	8:Y3:31:PHE:O	2.16	0.45
7:X3:69:GLY:HA3	7:J7:63:PRO:CG	2.46	0.45
8:Y3:3:ASP:OD2	8:Y3:6:THR:OG1	2.30	0.45
7:d3:18:LEU:HD23	7:d3:18:LEU:HA	1.83	0.45
7:o3:82:LEU:CD1	1:A5:221:MET:C	2.90	0.45
7:q3:79:ALA:HB2	1:A8:219:LEU:HA	1.97	0.45
7:w3:25:ARG:HH21	7:w3:25:ARG:HG3	1.81	0.45
7:w3:81:CYS:SG	11:w3:1001:CYC:CAC	3.04	0.45
8:x3:145:ALA:HA	8:x3:148:GLU:HG2	1.97	0.45
8:z3:145:ALA:HA	8:z3:148:GLU:HG2	1.97	0.45
2:F4:28:TYR:HB3	2:J4:32:ARG:CD	2.38	0.45
3:K4:154:SER:O	3:K4:158:GLN:HB2	2.16	0.45
2:H5:30:ARG:NH2	2:H5:101:ALA:O	2.49	0.45
2:J5:30:ARG:NH2	2:J5:101:ALA:O	2.49	0.45
3:X5:57:ARG:NH2	11:X5:203:CYC:CGD	2.76	0.45
2:Y5:137:LYS:HA	2:Y5:140:HIS:HD2	1.81	0.45
1:A6:117:PHE:N	1:A6:121:GLU:OE1	2.39	0.45
2:F6:24:LEU:CD1	11:G6:201:CYC:CBB	2.95	0.45
2:H6:137:LYS:HA	2:H6:140:HIS:HD2	1.82	0.45
3:K6:111:ASN:HD22	4:N6:218:ASP:CB	2.27	0.45
3:K6:126:SER:OG	11:K6:201:CYC:CMC	2.65	0.45
2:U6:84:CYS:HB2	11:U6:201:CYC:C4C	2.45	0.45
4:a6:238:VAL:HA	4:a6:264:PRO:HA	1.98	0.45
7:E7:62:ARG:NH1	7:E7:124:ASP:OD1	2.48	0.45
7:H7:115:MET:HE3	7:H7:115:MET:HB2	1.73	0.45
7:J7:22:GLU:HG3	7:J7:25:ARG:HH11	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S7:1001:CYC:HHD	11:S7:1001:CYC:HAC1	1.71	0.45
2:B8:26:TYR:N	2:B8:26:TYR:HD2	2.14	0.45
2:B8:73:ASN:O	11:G8:201:CYC:HMD3	2.16	0.45
4:N8:137:GLU:O	4:N8:141:ASN:ND2	2.50	0.45
2:O8:36:PHE:HE1	2:O8:149:GLU:CB	2.29	0.45
3:P8:3:ASP:HB3	3:P8:6:THR:HG23	1.98	0.45
2:Y8:19:LEU:HD21	3:Z8:95:TYR:CE1	2.52	0.45
11:B1:201:CYC:H2D	3:G1:57:ARG:CZ	2.27	0.45
2:H1:137:LYS:HA	2:H1:140:HIS:HD2	1.81	0.45
3:V1:126:SER:OG	11:V1:201:CYC:HMC2	2.16	0.45
2:Y1:2:LYS:H	2:Y1:105:GLY:HA3	1.81	0.45
3:Z1:86:MET:HB3	3:Z1:134:MET:HE1	1.98	0.45
2:L2:27:LEU:CD2	3:M2:38:SER:OG	2.64	0.45
4:N2:85:PHE:HD1	4:N2:97:LEU:HD13	1.80	0.45
2:O2:137:LYS:HA	2:O2:140:HIS:HD2	1.82	0.45
5:03:856:ALA:HB2	8:x3:110:ASN:ND2	2.32	0.45
5:13:517:SER:HB3	5:13:520:THR:HB	1.99	0.45
5:13:521:THR:CG2	5:13:524:SER:CA	2.95	0.45
7:I3:20:PRO:CG	7:A7:151:ALA:O	2.65	0.45
8:L3:145:ALA:HA	8:L3:148:GLU:HG2	1.97	0.45
7:N3:5:THR:OG1	8:O3:3:ASP:OD2	2.34	0.45
7:R3:77:MET:HE1	11:R3:1001:CYC:O1D	2.16	0.45
10:m3:97:LEU:HD22	8:n3:19:LEU:HD13	1.98	0.45
2:B4:22:THR:HG22	2:H4:103:GLY:HA3	1.99	0.45
11:C4:201:CYC:HMB1	2:H4:148:THR:CG2	2.46	0.45
11:E4:203:CYC:HMD3	2:F4:73:ASN:O	2.17	0.45
2:O4:111:LEU:HD23	11:O4:201:CYC:CAB	2.18	0.45
2:S4:25:GLN:O	2:S4:26:TYR:C	2.59	0.45
2:W4:36:PHE:HZ	2:W4:149:GLU:OE2	1.88	0.45
11:A5:302:CYC:HMC2	3:E5:126:SER:OG	2.16	0.45
2:L5:36:PHE:HB2	2:L5:146:ALA:HB2	1.99	0.45
3:M5:3:ASP:O	3:M5:7:ARG:N	2.42	0.45
3:X6:40:ALA:HB1	11:X6:202:CYC:HBC3	1.93	0.45
8:P7:75:THR:HG21	7:Q7:112:VAL:HG12	1.98	0.45
8:P7:126:THR:OG1	11:P7:1001:CYC:CMC	2.63	0.45
7:Q7:72:ALA:CB	11:Q7:1001:CYC:OC	2.63	0.45
7:V7:22:GLU:HG3	7:V7:25:ARG:HH11	1.80	0.45
7:V7:72:ALA:CB	11:V7:1001:CYC:OC	2.63	0.45
2:D8:24:LEU:CA	11:E8:202:CYC:CBB	2.89	0.45
3:I8:65:GLN:HE21	3:P8:65:GLN:NE2	2.14	0.45
2:S8:4:PRO:CD	2:Y8:22:THR:HG21	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X8:143:MET:HE1	3:X8:153:CYS:CB	2.39	0.45
2:Y8:73:ASN:O	11:Y8:201:CYC:HMD3	2.16	0.45
2:B1:149:GLU:CD	11:I1:202:CYC:HAB2	2.37	0.45
3:E1:57:ARG:HE	3:E1:57:ARG:HB2	1.46	0.45
3:E1:57:ARG:HH12	11:F1:201:CYC:CGD	2.26	0.45
3:E1:111:ASN:OD1	3:E1:111:ASN:N	2.31	0.45
2:J1:129:TYR:CE1	11:J1:201:CYC:HBC2	2.48	0.45
2:L1:36:PHE:HB2	2:L1:146:ALA:HB2	1.99	0.45
4:N1:172:ARG:HB2	4:N1:176:ASN:HD22	1.80	0.45
2:O1:137:LYS:HA	2:O1:140:HIS:HD2	1.81	0.45
3:P1:126:SER:OG	11:P1:201:CYC:HMC2	2.16	0.45
2:Q1:137:LYS:HA	2:Q1:140:HIS:HD2	1.81	0.45
3:R1:126:SER:OG	11:R1:201:CYC:HMC2	2.16	0.45
2:W1:49:ASP:OD2	2:W1:49:ASP:N	2.47	0.45
3:P2:109:CYS:O	3:P2:113:LEU:HD22	2.16	0.45
11:P2:202:CYC:HBD1	11:P2:202:CYC:CHA	2.29	0.45
3:T2:34:GLY:O	3:T2:38:SER:OG	2.31	0.45
3:X2:149:THR:OG1	11:X2:202:CYC:C3D	2.65	0.45
5:13:428:THR:O	5:13:432:SER:HB3	2.16	0.45
5:13:832:ASN:CG	6:b7:38:ARG:HH21	2.24	0.45
7:I3:76:GLU:O	7:I3:80:THR:OG1	2.34	0.45
8:J3:3:ASP:OD2	8:J3:6:THR:OG1	2.30	0.45
8:J3:102:SER:O	8:J3:106:GLU:HB2	2.16	0.45
8:O3:145:ALA:HA	8:O3:148:GLU:HG2	1.97	0.45
7:X3:154:ASP:OD1	8:I7:46:ALA:CB	2.55	0.45
8:c3:3:ASP:OD2	8:c3:3:ASP:N	2.37	0.45
7:f3:81:CYS:SG	11:f3:1001:CYC:CAC	3.04	0.45
8:j3:102:SER:O	8:j3:106:GLU:HB2	2.16	0.45
7:q3:81:CYS:SG	11:q3:1001:CYC:CAC	3.04	0.45
11:F4:201:CYC:CMD	3:G4:151:GLY:CA	2.88	0.45
4:N4:248:THR:HB	4:N4:278:MET:HA	1.99	0.45
3:P4:3:ASP:HB3	3:P4:6:THR:HG23	1.98	0.45
1:A5:181:TYR:HB2	3:G5:120:LEU:HD23	1.97	0.45
2:B5:36:PHE:HB2	2:B5:146:ALA:HB2	1.99	0.45
2:B5:137:LYS:HA	2:B5:140:HIS:HD2	1.81	0.45
3:C5:86:MET:HB3	3:C5:134:MET:HE1	1.98	0.45
2:H5:49:ASP:N	2:H5:49:ASP:OD2	2.47	0.45
2:J5:137:LYS:HA	2:J5:140:HIS:HD2	1.81	0.45
3:M5:86:MET:HB3	3:M5:134:MET:HE1	1.98	0.45
3:I6:112:GLY:HA3	4:N6:226:LEU:HA	1.97	0.45
3:M6:145:PRO:HB3	11:M6:202:CYC:HMC3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C7:62:ARG:NH1	7:C7:124:ASP:OD1	2.47	0.45
7:E7:21:GLY:O	7:E7:25:ARG:HG3	2.16	0.45
7:H7:76:GLU:O	7:H7:80:THR:OG1	2.31	0.45
2:B8:17:ARG:CB	2:B8:17:ARG:CZ	2.94	0.45
11:I8:203:CYC:HMD3	2:J8:73:ASN:O	2.17	0.45
4:N8:248:THR:HB	4:N8:278:MET:HA	1.99	0.45
2:Q8:36:PHE:HZ	2:Q8:149:GLU:CD	2.21	0.45
2:W8:86:ARG:CZ	11:W8:201:CYC:O2A	2.61	0.45
2:Y8:36:PHE:CE1	2:Y8:149:GLU:OE1	2.69	0.45
2:F1:30:ARG:NH2	2:F1:101:ALA:O	2.49	0.45
2:S1:36:PHE:HB2	2:S1:146:ALA:HB2	1.99	0.45
2:W1:36:PHE:HB2	2:W1:146:ALA:HB2	1.99	0.45
2:D2:2:LYS:NZ	2:L2:17:ARG:HD2	2.31	0.45
3:X2:126:SER:OG	11:X2:201:CYC:CMC	2.65	0.45
3:X2:146:ALA:C	3:X2:148:VAL:N	2.74	0.45
7:G3:102:THR:O	7:G3:106:GLU:CB	2.59	0.45
8:U3:102:SER:O	8:U3:106:GLU:HB2	2.16	0.45
7:b3:76:GLU:O	7:b3:80:THR:OG1	2.34	0.45
7:u3:81:CYS:SG	11:u3:1001:CYC:CAC	3.05	0.45
7:w3:73:TYR:HH	1:A5:196:TRP:CG	2.34	0.45
2:D4:33:GLN:CB	2:L4:25:GLN:NE2	2.79	0.45
3:K4:67:ILE:HD12	11:L4:201:CYC:CGA	2.46	0.45
3:K4:142:VAL:HG23	11:K4:202:CYC:HBC3	1.99	0.45
2:Q4:18:PHE:CE1	3:R4:91:ARG:CB	2.95	0.45
2:L5:111:LEU:CD2	11:L5:201:CYC:CAB	2.78	0.45
3:R5:86:MET:HB3	3:R5:134:MET:HE1	1.98	0.45
2:U5:24:LEU:CD1	11:U5:202:CYC:CBB	2.93	0.45
2:Y5:36:PHE:HB2	2:Y5:146:ALA:HB2	1.99	0.45
2:F6:137:LYS:HA	2:F6:140:HIS:HD2	1.82	0.45
3:I6:126:SER:OG	11:I6:201:CYC:CMC	2.65	0.45
2:J6:24:LEU:HB3	11:K6:202:CYC:HBB3	1.96	0.45
11:N6:301:CYC:CMC	3:R6:126:SER:OG	2.64	0.45
11:V6:202:CYC:HBD1	11:V6:202:CYC:CHA	2.28	0.45
8:F7:125:SER:OG	11:F7:1001:CYC:CMC	2.63	0.45
3:C8:143:MET:HA	3:C8:143:MET:CE	2.44	0.45
11:C8:201:CYC:CBD	11:C8:201:CYC:CHA	2.85	0.45
2:J8:92:LEU:HD13	2:J8:136:ILE:HD13	1.99	0.45
2:Q8:98:CYS:SG	2:Q8:153:TYR:CE1	3.10	0.45
2:S8:92:LEU:HD13	2:S8:136:ILE:HD13	1.99	0.45
3:X8:41:VAL:HG21	3:X8:98:PHE:HA	1.98	0.45
3:Z8:36:LYS:C	3:Z8:156:LEU:HD11	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:A1:302:CYC:HMC2	3:E1:126:SER:OG	2.16	0.45
2:F1:137:LYS:HA	2:F1:140:HIS:HD2	1.81	0.45
3:G1:126:SER:OG	11:G1:201:CYC:HMC2	2.16	0.45
2:W1:83:LYS:HG2	2:W1:86:ARG:HH11	1.82	0.45
2:D2:93:ARG:HD2	3:E2:17:GLU:C	2.42	0.45
3:I2:53:THR:O	3:I2:57:ARG:HB2	2.16	0.45
3:M2:72:ASN:HD21	3:M2:122:VAL:HG22	1.80	0.45
3:Z2:57:ARG:NH2	11:Z2:201:CYC:O1D	2.50	0.45
5:03:557:ILE:HD11	8:B7:83:ARG:HD2	1.97	0.45
5:13:457:ILE:HG13	8:c3:115:THR:HG23	1.98	0.45
8:O3:3:ASP:OD2	8:O3:3:ASP:N	2.37	0.45
8:a3:3:ASP:OD2	8:a3:6:THR:OG1	2.30	0.45
8:e3:17:LYS:HG2	1:A6:207:ASP:OD1	2.16	0.45
7:f3:76:GLU:O	7:f3:80:THR:OG1	2.34	0.45
7:i3:76:GLU:O	7:i3:80:THR:OG1	2.34	0.45
8:t3:157:CYS:O	8:t3:161:SER:OG	2.28	0.45
1:A4:133:GLY:CA	2:B4:14:SER:O	2.62	0.45
2:B4:103:GLY:CA	2:H4:22:THR:CG2	2.95	0.45
11:F4:201:CYC:CBD	11:F4:201:CYC:CHA	2.86	0.45
2:H4:92:LEU:HD13	2:H4:136:ILE:HD13	1.99	0.45
3:K4:3:ASP:HB3	3:K4:6:THR:HG23	1.98	0.45
4:N4:137:GLU:O	4:N4:141:ASN:ND2	2.50	0.45
4:N4:250:ARG:HD3	4:N4:250:ARG:HA	1.51	0.45
2:O4:73:ASN:O	11:O4:201:CYC:HMD3	2.16	0.45
11:R4:201:CYC:HMA2	2:U4:145:ASP:OD2	2.17	0.45
2:U4:28:TYR:OH	11:V4:202:CYC:C4A	2.64	0.45
3:V4:153:CYS:SG	3:V4:156:LEU:HB3	2.56	0.45
2:Y4:73:ASN:O	11:Y4:201:CYC:HMD3	2.16	0.45
3:G5:126:SER:OG	11:G5:201:CYC:HMC2	2.16	0.45
2:Q5:36:PHE:HB2	2:Q5:146:ALA:HB2	1.99	0.45
4:a5:236:ASP:HB3	4:a5:265:VAL:HG12	1.98	0.45
1:A6:6:LEU:HD22	11:C6:201:CYC:HBA2	1.98	0.45
3:C6:33:GLU:C	3:C6:36:LYS:HG2	2.41	0.45
3:C6:34:GLY:O	3:C6:38:SER:OG	2.31	0.45
11:N6:302:CYC:CMC	3:T6:126:SER:OG	2.65	0.45
2:Q6:137:LYS:HA	2:Q6:140:HIS:HD2	1.82	0.45
3:V6:65:GLN:H	3:V6:65:GLN:HG3	1.48	0.45
3:X6:151:GLY:H	11:X6:202:CYC:HMD2	1.71	0.45
7:C7:81:CYS:SG	11:C7:1001:CYC:C2C	2.95	0.45
7:H7:22:GLU:HG3	7:H7:25:ARG:HH11	1.80	0.45
7:J7:104:ILE:H	7:J7:104:ILE:HG13	1.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z7:62:ARG:NH1	7:Z7:124:ASP:OD1	2.48	0.45
2:F8:36:PHE:CZ	2:F8:149:GLU:CD	2.93	0.45
3:K8:24:LEU:HD23	3:K8:24:LEU:HA	1.81	0.45
4:N8:2:PRO:HB2	11:N8:301:CYC:HBA2	1.28	0.45
2:Q8:23:GLU:N	2:Q8:23:GLU:OE1	2.49	0.45
2:U8:28:TYR:OH	11:V8:202:CYC:C4A	2.65	0.45
3:V8:47:ASN:HB2	3:V8:141:ILE:HD13	1.98	0.45
3:Z8:37:ARG:HH11	3:Z8:37:ARG:CB	2.30	0.45
1:A1:150:ASN:OD1	1:A1:160:ARG:NH2	2.50	0.45
2:B1:36:PHE:HB2	2:B1:146:ALA:HB2	1.99	0.45
4:N1:248:THR:HB	4:N1:249:PRO:HD3	1.98	0.45
2:U1:137:LYS:HA	2:U1:140:HIS:HD2	1.81	0.45
3:X1:126:SER:OG	11:X1:201:CYC:HMC2	2.16	0.45
11:I2:202:CYC:CBD	11:I2:202:CYC:CHA	2.86	0.45
3:P2:3:ASP:N	3:P2:6:THR:OG1	2.41	0.45
11:T2:202:CYC:CBD	11:T2:202:CYC:CHA	2.86	0.45
3:X2:3:ASP:N	3:X2:6:THR:OG1	2.41	0.45
5:03:11:LEU:HA	9:Q3:119:SER:HB2	1.98	0.45
5:03:263:PHE:HB3	5:03:277:VAL:HG22	1.99	0.45
5:03:288:ARG:HD3	11:M3:201:CYC:O2A	2.17	0.45
5:03:463:ARG:NH1	8:H3:117:ASN:O	2.50	0.45
7:K3:77:MET:HE1	11:K3:1001:CYC:O1D	2.16	0.45
8:L3:140:LEU:O	7:f3:42:THR:HG23	2.16	0.45
7:N3:77:MET:HE1	11:N3:1001:CYC:O1D	2.16	0.45
7:P3:81:CYS:SG	11:P3:1001:CYC:CAC	3.04	0.45
7:Z3:81:CYS:SG	11:Z3:1001:CYC:CAC	3.04	0.45
7:b3:77:MET:HE1	11:b3:1001:CYC:O1D	2.16	0.45
7:d3:81:CYS:SG	11:d3:1001:CYC:CAC	3.04	0.45
7:u3:6:LYS:NZ	7:O7:10:ASN:HD22	2.15	0.45
7:u3:77:MET:HE1	11:u3:1001:CYC:O1D	2.16	0.45
2:B4:17:ARG:CB	2:B4:17:ARG:CZ	2.94	0.45
2:B4:151:ASN:O	2:B4:155:ASP:HB2	2.17	0.45
2:F4:28:TYR:CZ	11:F4:201:CYC:NB	2.85	0.45
2:J4:92:LEU:HD13	2:J4:136:ILE:HD13	1.99	0.45
3:K4:139:VAL:O	3:K4:142:VAL:HG12	2.04	0.45
2:Q4:98:CYS:SG	2:Q4:153:TYR:CE1	3.10	0.45
3:X4:3:ASP:HB3	3:X4:6:THR:HG23	1.98	0.45
3:Z4:37:ARG:HH11	3:Z4:37:ARG:CB	2.30	0.45
2:F5:36:PHE:HB2	2:F5:146:ALA:HB2	1.99	0.45
2:F5:83:LYS:HG2	2:F5:86:ARG:HH11	1.82	0.45
2:F5:137:LYS:HA	2:F5:140:HIS:HD2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I5:57:ARG:HE	3:I5:57:ARG:HB2	1.46	0.45
2:L5:137:LYS:HA	2:L5:140:HIS:HD2	1.81	0.45
1:A6:11:SER:H	1:A6:117:PHE:HB3	1.82	0.45
2:L6:137:LYS:HA	2:L6:140:HIS:HD2	1.82	0.45
4:N6:61:PHE:HE1	4:N6:68:VAL:HG22	1.81	0.45
4:N6:151:ARG:O	4:N6:159:HIS:NE2	2.50	0.45
4:N6:210:GLY:HA3	4:N6:283:ALA:HA	1.99	0.45
3:R6:65:GLN:H	3:R6:65:GLN:HG3	1.48	0.45
3:T6:37:ARG:N	3:T6:156:LEU:HD11	2.32	0.45
3:X6:3:ASP:N	3:X6:6:THR:OG1	2.42	0.45
7:E7:22:GLU:HG3	7:E7:25:ARG:HD3	1.98	0.45
8:I7:34:GLY:HA2	8:I7:37:ARG:HD2	1.99	0.45
8:M7:34:GLY:HA2	8:M7:37:ARG:HD2	1.99	0.45
8:T7:125:SER:OG	11:T7:1001:CYC:CMC	2.63	0.45
3:G8:139:VAL:O	3:G8:142:VAL:CG1	2.52	0.45
2:H8:92:LEU:HD13	2:H8:136:ILE:HD13	1.99	0.45
11:R8:201:CYC:HMA2	2:U8:145:ASP:OD2	2.17	0.45
2:U8:73:ASN:O	11:U8:201:CYC:HMD3	2.17	0.45
2:B1:83:LYS:HG2	2:B1:86:ARG:HH11	1.82	0.45
2:D1:36:PHE:HB2	2:D1:146:ALA:HB2	1.99	0.45
2:Q1:36:PHE:HB2	2:Q1:146:ALA:HB2	1.99	0.45
3:R1:84:ARG:CZ	11:R1:201:CYC:O2A	2.58	0.45
2:U1:36:PHE:HB2	2:U1:146:ALA:HB2	1.99	0.45
11:V1:202:CYC:HBC2	2:W1:129:TYR:CE1	2.48	0.45
3:K2:37:ARG:HB3	3:K2:37:ARG:CZ	2.46	0.45
3:P2:126:SER:OG	11:P2:201:CYC:CMC	2.65	0.45
2:W2:137:LYS:HA	2:W2:140:HIS:HD2	1.82	0.45
4:a2:246:LEU:HD22	4:a2:254:ILE:HD13	1.99	0.45
5:03:523:VAL:HG13	7:C7:103:PRO:HA	1.98	0.45
5:03:565:THR:CG2	6:G7:29:LYS:HD3	2.35	0.45
7:I3:102:THR:O	7:I3:106:GLU:CB	2.59	0.45
7:P3:12:ASP:OD2	9:Q3:108:ARG:NH1	2.50	0.45
9:g3:119:SER:OG	9:g3:120:LEU:N	2.48	0.45
7:o3:18:LEU:HD23	7:o3:18:LEU:HA	1.83	0.45
7:o3:79:ALA:HB1	1:A5:219:LEU:N	2.30	0.45
7:q3:77:MET:HE1	11:q3:1001:CYC:O1D	2.16	0.45
7:s3:81:CYS:SG	11:s3:1001:CYC:CAC	3.04	0.45
7:u3:69:GLY:HA2	1:A8:196:TRP:CZ2	2.42	0.45
7:u3:105:GLU:OE1	7:u3:155:TYR:OH	2.34	0.45
1:A4:181:TYR:HE1	1:A4:189:LEU:HD12	1.82	0.45
2:Q4:19:LEU:N	2:Q4:19:LEU:CD2	2.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:150:ASN:OD1	1:A5:160:ARG:NH2	2.50	0.45
1:A5:203:PHE:CD2	1:A5:204:ARG:CG	2.71	0.45
3:I5:86:MET:HB3	3:I5:134:MET:HE1	1.98	0.45
3:K5:86:MET:HB3	3:K5:134:MET:HE1	1.98	0.45
11:V5:202:CYC:CAB	2:W5:111:LEU:CD2	2.78	0.45
3:C6:126:SER:OG	11:C6:201:CYC:CMC	2.65	0.45
3:I6:41:VAL:HG22	3:I6:97:THR:HG23	1.99	0.45
3:V6:126:SER:OG	11:V6:201:CYC:CMC	2.65	0.45
2:F8:151:ASN:N	2:F8:151:ASN:ND2	2.65	0.45
11:F8:201:CYC:CMA	2:J8:145:ASP:OD2	2.59	0.45
3:K8:142:VAL:HG23	11:K8:202:CYC:HBC3	1.98	0.45
2:O8:73:ASN:O	11:O8:201:CYC:HMD3	2.17	0.45
3:R8:3:ASP:HB3	3:R8:6:THR:HG23	1.98	0.45
3:V8:24:LEU:HD23	3:V8:24:LEU:HA	1.81	0.45
2:W8:150:THR:O	2:W8:153:TYR:CB	2.63	0.45
2:Y8:36:PHE:CD2	2:Y8:145:ASP:HB2	2.52	0.45
1:A1:52:GLN:HE22	1:A1:158:TYR:HA	1.82	0.44
1:A1:65:LEU:O	1:A1:68:SER:OG	2.31	0.44
3:G1:162:LEU:O	3:G1:166:THR:OG1	2.32	0.44
2:L1:83:LYS:HG2	2:L1:86:ARG:HH11	1.82	0.44
2:S1:87:ASP:OD1	11:S1:201:CYC:HHB	2.17	0.44
2:U1:2:LYS:H	2:U1:105:GLY:HA3	1.81	0.44
3:V1:86:MET:HB3	3:V1:134:MET:HE1	1.98	0.44
3:X1:57:ARG:NH2	11:X1:203:CYC:CGD	2.76	0.44
3:X1:86:MET:HB3	3:X1:134:MET:HE1	1.98	0.44
2:Y1:36:PHE:HB2	2:Y1:146:ALA:HB2	1.99	0.44
4:a1:236:ASP:HB3	4:a1:265:VAL:HG12	1.98	0.44
1:A2:47:ASN:OD1	1:A2:62:ARG:NH1	2.47	0.44
2:F2:24:LEU:CD1	11:G2:201:CYC:CBB	2.95	0.44
2:O2:145:ASP:OD1	11:X2:202:CYC:HMA1	2.17	0.44
3:R2:33:GLU:CB	3:R2:36:LYS:HZ2	2.22	0.44
2:Y2:137:LYS:HA	2:Y2:140:HIS:HD2	1.82	0.44
5:03:517:SER:HB3	5:03:520:THR:HB	1.98	0.44
5:13:837:LEU:HD21	6:b7:42:ARG:HH22	1.79	0.44
8:L3:3:ASP:OD2	8:L3:6:THR:OG1	2.30	0.44
9:g3:66:LEU:HA	9:g3:71:GLY:HA3	1.98	0.44
7:i3:12:ASP:OD2	8:j3:107:ARG:NH2	2.50	0.44
7:i3:81:CYS:SG	11:i3:1001:CYC:CAC	3.04	0.44
7:q3:113:ARG:HH11	7:V7:117:LYS:HD3	1.72	0.44
2:B4:19:LEU:HD23	3:C4:95:TYR:CD1	2.49	0.44
3:C4:127:VAL:HB	3:C4:171:VAL:HG11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:139:VAL:O	3:C4:142:VAL:CG1	2.65	0.44
3:K4:143:MET:HE3	3:K4:157:GLN:CB	2.47	0.44
11:K4:202:CYC:CBD	11:K4:202:CYC:CHA	2.86	0.44
3:M4:153:CYS:SG	3:M4:156:LEU:CB	2.97	0.44
3:P4:153:CYS:O	3:P4:154:SER:C	2.59	0.44
3:R4:149:THR:OG1	11:R4:201:CYC:HAD1	2.17	0.44
2:S4:150:THR:HA	2:S4:153:TYR:CB	2.35	0.44
3:X4:41:VAL:HG21	3:X4:98:PHE:HA	1.98	0.44
2:Y4:92:LEU:HD13	2:Y4:136:ILE:HD13	1.99	0.44
1:A5:52:GLN:HE22	1:A5:158:TYR:HA	1.82	0.44
3:C5:3:ASP:O	3:C5:7:ARG:N	2.42	0.44
3:G5:86:MET:HB3	3:G5:134:MET:HE1	1.98	0.44
3:T5:86:MET:HB3	3:T5:134:MET:HE1	1.98	0.44
2:U5:36:PHE:HB2	2:U5:146:ALA:HB2	1.99	0.44
3:X5:86:MET:HB3	3:X5:134:MET:HE1	1.98	0.44
2:O6:145:ASP:OD1	11:X6:202:CYC:HMA1	2.17	0.44
3:P6:109:CYS:O	3:P6:113:LEU:HD22	2.16	0.44
7:C7:115:MET:HE3	7:C7:115:MET:HB2	1.73	0.44
7:E7:97:VAL:HG21	8:F7:27:LEU:HD13	1.98	0.44
7:J7:9:VAL:CG1	8:K7:1:MET:HG2	2.47	0.44
8:M7:125:SER:OG	11:M7:1001:CYC:CMC	2.63	0.44
8:P7:34:GLY:HA2	8:P7:37:ARG:HD2	1.99	0.44
8:W7:34:GLY:HA2	8:W7:37:ARG:HD2	1.99	0.44
8:Y7:125:SER:OG	11:Y7:1001:CYC:CMC	2.63	0.44
2:B8:31:LEU:HD13	2:B8:31:LEU:HA	1.84	0.44
2:L8:27:LEU:HD13	3:M8:38:SER:HB3	1.98	0.44
2:Q8:152:ASN:HD21	2:U8:21:ASN:CB	2.30	0.44
11:V8:202:CYC:HMD3	11:V8:202:CYC:NC	2.33	0.44
3:Z8:43:ARG:HH12	3:Z8:146:ALA:H	1.65	0.44
1:A1:36:VAL:HG12	3:K1:108:ARG:NH2	2.33	0.44
3:E1:41:VAL:HG22	3:E1:97:THR:HG23	2.00	0.44
2:F1:83:LYS:HG2	2:F1:86:ARG:HH11	1.82	0.44
4:N1:240:ARG:N	4:N1:286:SER:O	2.47	0.44
2:Q1:83:LYS:HG2	2:Q1:86:ARG:HH11	1.82	0.44
2:S1:83:LYS:HG2	2:S1:86:ARG:HH11	1.82	0.44
11:A2:301:CYC:CMC	3:G2:126:SER:OG	2.65	0.44
2:B2:22:THR:HG22	2:H2:4:PRO:HD3	1.98	0.44
11:E2:202:CYC:CBD	11:E2:202:CYC:CHA	2.86	0.44
3:K2:57:ARG:HE	3:K2:57:ARG:CA	2.17	0.44
3:M2:145:PRO:HB3	11:M2:202:CYC:HMC3	1.99	0.44
2:Q2:4:PRO:HD3	2:U2:22:THR:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q2:24:LEU:HD12	11:R2:201:CYC:HBB1	1.98	0.44
3:T2:152:ASP:OD1	3:T2:154:SER:OG	2.27	0.44
3:Z2:151:GLY:HA3	11:Z2:203:CYC:HMA3	1.98	0.44
5:03:768:GLU:OE2	6:U7:29:LYS:CE	2.66	0.44
9:Q3:60:PHE:HB3	9:Q3:67:LEU:HD11	1.98	0.44
7:Z3:102:THR:O	7:Z3:106:GLU:CB	2.59	0.44
11:d3:1001:CYC:O1A	8:h3:66:THR:CB	2.66	0.44
7:f3:105:GLU:OE1	7:f3:155:TYR:OH	2.34	0.44
8:l3:3:ASP:OD2	8:l3:3:ASP:N	2.37	0.44
8:v3:46:ALA:CA	7:O7:154:ASP:OD1	2.65	0.44
7:w3:71:ASN:HA	1:A5:201:ARG:NH2	2.32	0.44
2:B4:26:TYR:N	2:B4:26:TYR:HD2	2.14	0.44
3:E4:67:ILE:HD12	11:E4:203:CYC:O2A	2.15	0.44
2:F4:149:GLU:HB3	2:F4:153:TYR:CE2	2.52	0.44
2:J4:18:PHE:CD2	2:J4:18:PHE:N	2.73	0.44
3:K4:65:GLN:HE22	3:T4:123:PRO:HB3	1.83	0.44
4:N4:251:TYR:O	4:N4:251:TYR:CD2	2.70	0.44
3:P4:142:VAL:HG13	3:P4:143:MET:N	2.32	0.44
2:U4:73:ASN:O	11:U4:201:CYC:HMD3	2.17	0.44
2:J5:36:PHE:HB2	2:J5:146:ALA:HB2	1.99	0.44
2:L5:87:ASP:OD1	11:L5:201:CYC:HHB	2.18	0.44
2:Q5:87:ASP:OD1	11:Q5:201:CYC:HHB	2.18	0.44
2:U5:2:LYS:H	2:U5:105:GLY:HA3	1.81	0.44
3:Z5:126:SER:OG	11:Z5:201:CYC:HMC2	2.16	0.44
11:K6:202:CYC:HMD3	11:K6:202:CYC:NC	2.33	0.44
2:O6:137:LYS:HA	2:O6:140:HIS:HD2	1.82	0.44
3:R6:3:ASP:N	3:R6:6:THR:OG1	2.41	0.44
4:a6:246:LEU:HD22	4:a6:254:ILE:HD13	1.99	0.44
7:C7:16:ARG:NH2	7:C7:17:TYR:O	2.48	0.44
7:Q7:62:ARG:NH1	7:Q7:124:ASP:OD1	2.48	0.44
1:A8:15:THR:HB	1:A8:160:ARG:HH11	1.83	0.44
2:D8:33:GLN:CB	2:L8:25:GLN:NE2	2.79	0.44
2:F8:92:LEU:HD13	2:F8:136:ILE:HD13	1.99	0.44
3:K8:127:VAL:HB	3:K8:171:VAL:HG11	2.00	0.44
4:N8:249:PRO:HG3	4:N8:278:MET:HG2	1.98	0.44
4:N8:251:TYR:O	4:N8:251:TYR:CD2	2.70	0.44
3:P8:127:VAL:HB	3:P8:171:VAL:HG11	2.00	0.44
2:S8:73:ASN:O	11:S8:201:CYC:HMD3	2.16	0.44
3:X8:3:ASP:HB3	3:X8:6:THR:HG23	1.97	0.44
11:X8:202:CYC:NC	11:X8:202:CYC:HMD3	2.33	0.44
2:J1:141:GLY:CA	2:B8:61:SER:HB3	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S1:137:LYS:HA	2:S1:140:HIS:HD2	1.81	0.44
11:T1:201:CYC:HHD	11:T1:201:CYC:HAC1	1.82	0.44
2:Y1:83:LYS:HG2	2:Y1:86:ARG:HH11	1.82	0.44
1:A2:11:SER:H	1:A2:117:PHE:HB3	1.82	0.44
3:I2:126:SER:OG	11:I2:201:CYC:CMC	2.65	0.44
3:K2:3:ASP:N	3:K2:6:THR:OG1	2.41	0.44
11:K2:202:CYC:HMD3	11:K2:202:CYC:NC	2.33	0.44
2:L2:137:LYS:HA	2:L2:140:HIS:HD2	1.82	0.44
3:M2:148:VAL:HG11	11:M2:202:CYC:CHD	2.47	0.44
4:N2:93:ARG:HB2	4:N2:187:SER:HB3	2.00	0.44
3:V2:126:SER:OG	11:V2:201:CYC:CMC	2.65	0.44
5:03:220:PHE:O	5:03:224:ILE:HG13	2.17	0.44
5:03:428:THR:O	5:03:432:SER:HB3	2.17	0.44
7:I3:27:LYS:NZ	8:J3:35:ALA:HB1	2.31	0.44
8:U3:3:ASP:OD2	8:U3:6:THR:OG1	2.30	0.44
8:Y3:157:CYS:O	8:Y3:161:SER:OG	2.28	0.44
7:f3:12:ASP:OD2	9:g3:108:ARG:NH1	2.50	0.44
1:A4:167:ARG:NH2	3:E4:120:LEU:O	2.45	0.44
1:A4:214:ASP:N	1:A4:217:LEU:HD13	2.33	0.44
3:E4:143:MET:HG3	3:E4:144:ASP:N	2.32	0.44
11:F4:201:CYC:NC	11:F4:201:CYC:HMD3	2.33	0.44
11:I4:202:CYC:NC	11:I4:202:CYC:HMD3	2.32	0.44
2:J4:19:LEU:HD21	3:K4:95:TYR:HD1	1.83	0.44
4:N4:249:PRO:HG3	4:N4:278:MET:HG2	1.98	0.44
2:Q4:24:LEU:HD12	2:U4:152:ASN:HD21	1.44	0.44
2:Q4:36:PHE:HZ	2:Q4:149:GLU:CD	2.21	0.44
2:Q4:103:GLY:HA2	2:U4:22:THR:CG2	2.47	0.44
2:U4:73:ASN:OD1	2:U4:73:ASN:N	2.51	0.44
3:V4:127:VAL:HB	3:V4:171:VAL:HG11	2.00	0.44
3:V4:159:GLU:CG	3:V4:163:TYR:CE2	2.98	0.44
11:X4:202:CYC:NC	11:X4:202:CYC:HMD3	2.33	0.44
2:D5:137:LYS:HA	2:D5:140:HIS:HD2	1.81	0.44
11:D5:201:CYC:CMD	3:E5:151:GLY:CA	2.78	0.44
11:N5:301:CYC:HMC2	3:T5:126:SER:OG	2.16	0.44
3:P5:86:MET:HB3	3:P5:134:MET:HE1	1.98	0.44
2:Q5:25:GLN:HG2	2:U5:33:GLN:HB2	1.99	0.44
2:Q5:152:ASN:CG	2:U5:21:ASN:HD21	2.26	0.44
11:C6:202:CYC:CBD	11:C6:202:CYC:CHA	2.85	0.44
11:G6:201:CYC:HMD3	11:G6:201:CYC:NC	2.33	0.44
4:N6:55:THR:HA	4:N6:58:GLU:HB3	1.98	0.44
11:T6:201:CYC:HMD3	11:T6:201:CYC:NC	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y6:137:LYS:HA	2:Y6:140:HIS:HD2	1.82	0.44
3:Z6:126:SER:OG	11:Z6:201:CYC:CMC	2.64	0.44
8:D7:140:LEU:HB2	7:Z7:49:ARG:HH12	1.83	0.44
7:O7:72:ALA:CB	11:O7:1001:CYC:OC	2.63	0.44
7:S7:16:ARG:NH2	7:S7:17:TYR:O	2.48	0.44
8:T7:34:GLY:HA2	8:T7:37:ARG:HD2	1.99	0.44
8:a7:126:THR:OG1	11:a7:1001:CYC:CMC	2.63	0.44
6:b7:7:THR:HG23	6:b7:52:LYS:H	1.82	0.44
2:F8:149:GLU:HB3	2:F8:153:TYR:CE2	2.52	0.44
3:G8:139:VAL:HA	3:G8:142:VAL:HG13	1.99	0.44
3:I8:24:LEU:HD23	3:I8:24:LEU:HA	1.81	0.44
2:J8:19:LEU:HD21	3:K8:95:TYR:CD1	2.52	0.44
3:P8:140:ALA:HA	3:P8:143:MET:HB3	1.99	0.44
3:P8:142:VAL:HG13	3:P8:143:MET:N	2.32	0.44
11:T8:202:CYC:HMD3	11:T8:202:CYC:NC	2.33	0.44
3:V8:127:VAL:HB	3:V8:171:VAL:HG11	2.00	0.44
2:Y8:17:ARG:CZ	2:Y8:17:ARG:HB2	2.46	0.44
1:A1:215:PRO:HG2	1:A8:203:PHE:CE1	2.53	0.44
11:A1:301:CYC:HMC2	3:C1:126:SER:OG	2.16	0.44
2:D1:49:ASP:OD2	2:D1:49:ASP:N	2.47	0.44
2:D1:83:LYS:HG2	2:D1:86:ARG:HH11	1.82	0.44
2:U1:111:LEU:CD2	11:U1:201:CYC:CAB	2.78	0.44
11:C2:202:CYC:HMD3	11:C2:202:CYC:NC	2.32	0.44
3:I2:41:VAL:HG22	3:I2:97:THR:HG23	1.99	0.44
11:X2:202:CYC:HMD3	11:X2:202:CYC:NC	2.33	0.44
5:13:261:GLN:HG2	7:k3:14:GLU:HG3	1.98	0.44
5:13:263:PHE:HB3	5:13:277:VAL:HG22	1.99	0.44
6:33:62:THR:O	8:n3:77:ARG:NH2	2.51	0.44
7:d3:74:GLY:CA	1:A6:194:VAL:HG23	2.43	0.44
8:n3:102:SER:O	8:n3:106:GLU:HB2	2.16	0.44
7:y3:21:GLY:HA3	7:Q7:3:ILE:HD11	1.99	0.44
8:z3:102:SER:O	8:z3:106:GLU:HB2	2.16	0.44
3:E4:156:LEU:C	3:E4:156:LEU:CD2	2.85	0.44
3:K4:127:VAL:HB	3:K4:171:VAL:HG11	1.99	0.44
3:K4:143:MET:CE	3:K4:157:GLN:CB	2.89	0.44
2:Y4:17:ARG:HB2	2:Y4:17:ARG:CZ	2.46	0.44
4:N5:265:VAL:HA	4:N5:268:LEU:HB2	1.99	0.44
2:W5:137:LYS:HA	2:W5:140:HIS:HD2	1.81	0.44
3:X5:126:SER:OG	11:X5:201:CYC:HMC2	2.16	0.44
1:A6:47:ASN:OD1	1:A6:62:ARG:NH1	2.47	0.44
3:X6:149:THR:OG1	11:X6:202:CYC:C3D	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A7:62:ARG:NH1	7:A7:124:ASP:OD1	2.47	0.44
6:G7:6:ILE:HG22	6:G7:53:VAL:HA	1.99	0.44
2:B8:103:GLY:CA	2:H8:22:THR:CG2	2.95	0.44
2:F8:73:ASN:OD1	2:F8:73:ASN:N	2.51	0.44
3:K8:154:SER:O	3:K8:158:GLN:HB2	2.16	0.44
3:R8:140:ALA:HA	3:R8:143:MET:HB3	1.98	0.44
2:U8:86:ARG:CZ	11:U8:201:CYC:O2A	2.61	0.44
11:C1:202:CYC:CAB	2:D1:111:LEU:CD2	2.78	0.44
4:N1:81:TYR:OH	4:N1:98:ASN:OD1	2.26	0.44
3:T1:156:LEU:O	3:T1:160:ILE:HG13	2.18	0.44
11:Z1:202:CYC:HHD	11:Z1:202:CYC:HAC1	1.82	0.44
1:A2:214:ASP:CG	8:H3:67:ARG:HH21	2.22	0.44
1:A2:227:ILE:HG21	7:I3:66:VAL:CG1	2.48	0.44
3:X2:37:ARG:CB	3:X2:156:LEU:HD21	2.48	0.44
5:03:522:ASN:O	7:C7:106:GLU:HB3	2.16	0.44
5:03:565:THR:OG1	5:03:566:LEU:N	2.51	0.44
7:N3:81:CYS:SG	11:N3:1001:CYC:CAC	3.04	0.44
7:Z3:85:MET:HG3	11:Z3:1001:CYC:HBC1	2.00	0.44
8:l3:157:CYS:O	8:l3:161:SER:OG	2.28	0.44
7:o3:60:GLN:CA	1:A5:226:GLN:HE21	2.21	0.44
8:x3:66:THR:HB	11:y3:1001:CYC:O1A	2.17	0.44
8:x3:83:ARG:CZ	11:x3:1001:CYC:O2A	2.61	0.44
1:A4:15:THR:HB	1:A4:160:ARG:HH11	1.83	0.44
3:C4:142:VAL:O	11:C4:201:CYC:HBC2	2.00	0.44
3:G4:40:ALA:CB	3:G4:156:LEU:HD13	2.40	0.44
2:L4:73:ASN:N	2:L4:73:ASN:OD1	2.51	0.44
3:P4:152:ASP:N	3:P4:152:ASP:OD1	2.49	0.44
2:S4:92:LEU:HD13	2:S4:136:ILE:HD13	1.99	0.44
2:U4:92:LEU:HD13	2:U4:136:ILE:HD13	1.99	0.44
2:U4:94:MET:HG3	2:U4:111:LEU:HG	2.00	0.44
11:V4:202:CYC:HMD3	11:V4:202:CYC:NC	2.33	0.44
2:Y4:139:ASN:C	2:Y4:139:ASN:ND2	2.73	0.44
3:Z4:43:ARG:HH12	3:Z4:146:ALA:H	1.65	0.44
4:a4:250:ARG:HB3	4:a4:252:PRO:HD2	2.00	0.44
1:A5:208:ARG:HE	1:A5:208:ARG:CA	2.24	0.44
2:O5:36:PHE:HB2	2:O5:146:ALA:HB2	1.99	0.44
2:Q5:83:LYS:HG2	2:Q5:86:ARG:HH11	1.83	0.44
3:Z5:41:VAL:HG22	3:Z5:97:THR:HG23	2.00	0.44
4:a5:263:VAL:HG11	4:a5:271:LYS:HG2	2.00	0.44
11:E6:202:CYC:NC	11:E6:202:CYC:HMD3	2.33	0.44
2:H6:28:TYR:OH	3:I6:35:THR:OG1	2.14	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M6:33:GLU:CB	3:M6:36:LYS:HE2	2.42	0.44
3:M6:148:VAL:HG11	11:M6:202:CYC:CHD	2.47	0.44
3:R6:53:THR:O	3:R6:57:ARG:HB2	2.18	0.44
7:O7:115:MET:HB2	7:O7:115:MET:HE3	1.73	0.44
11:O7:1001:CYC:HHD	11:O7:1001:CYC:HAC1	1.71	0.44
8:R7:34:GLY:HA2	8:R7:37:ARG:HD2	1.99	0.44
8:T7:157:CYS:O	8:T7:161:SER:OG	2.33	0.44
3:C8:127:VAL:HB	3:C8:171:VAL:HG11	2.00	0.44
2:D8:26:TYR:HE2	2:L8:4:PRO:CB	2.29	0.44
2:H8:140:HIS:CE1	2:H8:142:LEU:CG	3.00	0.44
3:I8:151:GLY:H	11:I8:202:CYC:C1C	2.31	0.44
11:I8:202:CYC:NC	11:I8:202:CYC:HMD3	2.32	0.44
11:K8:202:CYC:HMD3	11:K8:202:CYC:NC	2.32	0.44
4:N8:251:TYR:CD2	4:N8:251:TYR:C	2.95	0.44
2:O8:92:LEU:HD13	2:O8:136:ILE:HD13	1.99	0.44
11:P8:202:CYC:HMD3	11:P8:202:CYC:NC	2.33	0.44
2:Q8:17:ARG:CZ	2:Q8:17:ARG:HB2	2.47	0.44
2:Q8:83:LYS:HZ2	2:Q8:86:ARG:NH1	2.14	0.44
2:W8:73:ASN:OD1	2:W8:73:ASN:N	2.51	0.44
11:Z8:202:CYC:CBD	11:Z8:202:CYC:CHA	2.86	0.44
11:Z8:202:CYC:NC	11:Z8:202:CYC:HMD3	2.33	0.44
3:C1:41:VAL:HG22	3:C1:97:THR:HG23	2.00	0.44
3:C1:160:ILE:H	3:C1:160:ILE:HG13	1.68	0.44
3:G1:41:VAL:HG22	3:G1:97:THR:HG23	2.00	0.44
3:I1:162:LEU:O	3:I1:166:THR:OG1	2.32	0.44
3:M1:3:ASP:O	3:M1:7:ARG:N	2.42	0.44
3:R1:156:LEU:O	3:R1:160:ILE:HG13	2.18	0.44
1:A2:6:LEU:HD22	11:C2:201:CYC:HBA2	1.98	0.44
11:E2:202:CYC:NC	11:E2:202:CYC:HMD3	2.32	0.44
3:K2:151:GLY:CA	11:K2:202:CYC:HMD3	2.25	0.44
11:M2:202:CYC:NC	11:M2:202:CYC:HMD3	2.33	0.44
4:N2:61:PHE:HE1	4:N2:68:VAL:HG22	1.81	0.44
4:N2:210:GLY:HA3	4:N2:283:ALA:HA	1.99	0.44
11:T2:202:CYC:HBD1	11:T2:202:CYC:CHA	2.29	0.44
2:U2:137:LYS:HA	2:U2:140:HIS:HD2	1.82	0.44
3:Z2:34:GLY:O	3:Z2:38:SER:OG	2.31	0.44
5:03:514:GLU:HG2	6:G7:20:ARG:HH21	1.82	0.44
10:V3:81:CYS:HG	11:V3:201:CYC:CBC	2.05	0.44
8:Y3:155:TYR:OH	8:h3:113:LYS:HE3	2.17	0.44
7:d3:52:LYS:O	1:A6:200:VAL:CG1	2.65	0.44
7:d3:85:MET:HG3	11:d3:1001:CYC:HBC1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o3:71:ASN:HD22	7:o3:121:THR:HA	1.81	0.44
7:u3:77:MET:HE2	1:A8:201:ARG:CG	2.47	0.44
8:v3:83:ARG:CZ	11:v3:1001:CYC:O2A	2.61	0.44
7:w3:64:ASP:OD2	7:O7:70:GLY:CA	2.66	0.44
3:E4:40:ALA:CB	3:E4:156:LEU:HD12	2.31	0.44
3:I4:144:ASP:OD1	3:I4:145:PRO:CD	2.61	0.44
2:J4:94:MET:HG3	2:J4:111:LEU:HG	2.00	0.44
2:L4:73:ASN:O	11:L4:201:CYC:HMD3	2.17	0.44
2:O4:23:GLU:N	2:O4:23:GLU:OE1	2.51	0.44
3:P4:127:VAL:HB	3:P4:171:VAL:HG11	1.99	0.44
2:S4:97:TYR:OH	3:T4:17:GLU:O	2.32	0.44
1:A5:36:VAL:HG12	3:K5:108:ARG:NH2	2.33	0.44
1:A5:85:LEU:HD22	1:A5:138:VAL:HB	1.99	0.44
3:C5:41:VAL:HG22	3:C5:97:THR:HG23	2.00	0.44
2:F5:73:ASN:O	11:F5:201:CYC:HMD3	2.13	0.44
2:F5:87:ASP:OD1	11:F5:201:CYC:HHB	2.18	0.44
2:H5:2:LYS:H	2:H5:105:GLY:HA3	1.82	0.44
2:J5:84:CYS:HG	11:J5:201:CYC:CAC	2.08	0.44
3:K5:75:THR:HG22	2:L5:110:TYR:HA	1.99	0.44
3:M5:156:LEU:O	3:M5:160:ILE:HG13	2.18	0.44
2:S5:28:TYR:HH	11:T5:201:CYC:HB	1.55	0.44
2:S5:137:LYS:HA	2:S5:140:HIS:HD2	1.81	0.44
3:V5:126:SER:OG	11:V5:201:CYC:HMC2	2.16	0.44
2:W5:83:LYS:HG2	2:W5:86:ARG:HH11	1.82	0.44
2:D6:93:ARG:HD2	3:E6:17:GLU:C	2.42	0.44
3:K6:149:THR:HG1	11:K6:202:CYC:CAD	2.19	0.44
3:M6:65:GLN:HE22	3:R6:68:ALA:HB2	1.83	0.44
2:U6:137:LYS:HA	2:U6:140:HIS:HD2	1.82	0.44
7:E7:72:ALA:CB	11:E7:1001:CYC:OC	2.63	0.44
6:G7:2:ARG:HB3	6:G7:33:TYR:HB2	1.99	0.44
8:T7:76:ARG:CZ	6:U7:2:ARG:HH12	2.31	0.44
7:V7:100:ASP:HB3	7:V7:102:THR:HG22	2.00	0.44
7:X7:100:ASP:HB3	7:X7:102:THR:HG22	2.00	0.44
8:Y7:34:GLY:HA2	8:Y7:37:ARG:HD2	1.99	0.44
2:B8:92:LEU:HD13	2:B8:136:ILE:HD13	1.99	0.44
3:C8:151:GLY:HA3	11:C8:201:CYC:CAD	2.38	0.44
2:D8:73:ASN:O	11:D8:201:CYC:HMD3	2.16	0.44
2:F8:28:TYR:CZ	11:F8:201:CYC:NB	2.85	0.44
2:F8:83:LYS:HZ2	2:F8:86:ARG:NH1	2.16	0.44
11:F8:201:CYC:NC	11:F8:201:CYC:HMD3	2.33	0.44
2:H8:18:PHE:CE1	3:I8:91:ARG:CB	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I8:82:CYS:HG	11:I8:201:CYC:CAC	1.87	0.44
2:L8:150:THR:HG23	2:L8:154:ILE:HD11	2.00	0.44
2:Q8:83:LYS:HZ2	2:Q8:86:ARG:HH12	1.65	0.44
2:S8:94:MET:HG3	2:S8:111:LEU:HG	2.00	0.44
2:U8:17:ARG:CZ	2:U8:17:ARG:CB	2.96	0.44
1:A1:211:GLN:CD	1:A1:211:GLN:C	2.86	0.44
2:F1:87:ASP:OD1	11:F1:201:CYC:HHB	2.18	0.44
3:G1:151:GLY:CA	11:G1:202:CYC:CMD	2.77	0.44
2:O1:83:LYS:HG2	2:O1:86:ARG:HH11	1.82	0.44
3:P1:41:VAL:HG22	3:P1:97:THR:HG23	2.00	0.44
3:P1:156:LEU:O	3:P1:160:ILE:HG13	2.18	0.44
3:C2:35:THR:CG2	3:C2:36:LYS:CE	2.79	0.44
4:N2:74:ALA:O	4:N2:78:SER:OG	2.33	0.44
2:Q2:137:LYS:HA	2:Q2:140:HIS:HD2	1.82	0.44
3:R2:39:ASP:OD2	11:R2:201:CYC:CHB	2.64	0.44
3:V2:41:VAL:HG22	3:V2:97:THR:HG23	2.00	0.44
5:03:557:ILE:CG2	11:B7:1001:CYC:HMA1	2.48	0.44
8:H3:3:ASP:OD2	8:H3:6:THR:OG1	2.30	0.44
8:Y3:46:ALA:CA	7:H7:154:ASP:OD1	2.66	0.44
7:d3:76:GLU:O	7:d3:80:THR:OG1	2.34	0.44
8:e3:102:SER:O	8:e3:106:GLU:HB2	2.16	0.44
1:A4:196:TRP:CE2	7:X7:63:PRO:HG3	2.53	0.44
2:B4:27:LEU:O	2:B4:27:LEU:HD23	2.18	0.44
3:C4:69:PRO:CB	3:E4:16:GLY:HA3	2.41	0.44
2:D4:24:LEU:CD1	2:L4:152:ASN:HD21	1.96	0.44
2:D4:24:LEU:CA	11:E4:202:CYC:CBB	2.89	0.44
2:F4:94:MET:HG3	2:F4:111:LEU:HG	2.00	0.44
3:G4:139:VAL:HA	3:G4:142:VAL:HG13	1.99	0.44
2:H4:18:PHE:CE1	3:I4:91:ARG:CB	3.00	0.44
11:L4:202:CYC:NC	11:L4:202:CYC:HMD3	2.33	0.44
4:N4:199:SER:OG	4:N4:200:ALA:N	2.51	0.44
2:O4:148:THR:OG1	11:X4:202:CYC:HMB1	2.17	0.44
2:Q4:92:LEU:HD13	2:Q4:136:ILE:HD13	1.99	0.44
2:S4:19:LEU:CD2	3:T4:95:TYR:CD1	2.80	0.44
2:U4:32:ARG:HD2	2:U4:32:ARG:HA	1.67	0.44
2:B5:83:LYS:HG2	2:B5:86:ARG:HH11	1.82	0.44
2:B5:87:ASP:OD1	11:B5:201:CYC:HHB	2.18	0.44
2:D5:36:PHE:HB2	2:D5:146:ALA:HB2	1.99	0.44
2:H5:83:LYS:HG2	2:H5:86:ARG:HH11	1.82	0.44
3:I5:126:SER:OG	11:I5:201:CYC:HMC2	2.16	0.44
3:I5:156:LEU:O	3:I5:160:ILE:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R5:41:VAL:HG22	3:R5:97:THR:HG23	2.00	0.44
2:S5:36:PHE:HB2	2:S5:146:ALA:HB2	1.99	0.44
2:U5:49:ASP:N	2:U5:49:ASP:OD2	2.47	0.44
3:I6:151:GLY:CA	11:I6:202:CYC:HMD2	2.40	0.44
3:K6:151:GLY:N	11:K6:202:CYC:HMD2	2.33	0.44
4:N6:93:ARG:HB2	4:N6:187:SER:HB3	2.00	0.44
3:Z6:151:GLY:HA3	11:Z6:202:CYC:HMA3	1.99	0.44
8:B7:34:GLY:HA2	8:B7:37:ARG:HD2	1.99	0.44
11:E7:1001:CYC:HHD	11:E7:1001:CYC:HAC1	1.71	0.44
7:L7:100:ASP:HB3	7:L7:102:THR:HG22	2.00	0.44
6:b7:21:GLU:HG2	6:b7:24:ASN:CG	2.42	0.44
1:A8:181:TYR:HE1	1:A8:189:LEU:HD12	1.82	0.44
11:E8:202:CYC:NC	11:E8:202:CYC:HMD3	2.32	0.44
3:I8:127:VAL:HB	3:I8:171:VAL:HG11	1.99	0.44
2:J8:73:ASN:OD1	2:J8:73:ASN:N	2.51	0.44
2:J8:83:LYS:HZ2	2:J8:86:ARG:NH1	2.15	0.44
3:K8:67:ILE:CD1	11:L8:201:CYC:CGA	2.96	0.44
3:P8:152:ASP:OD1	3:P8:152:ASP:N	2.49	0.44
2:Q8:73:ASN:OD1	2:Q8:73:ASN:N	2.51	0.44
2:Y8:92:LEU:HD13	2:Y8:136:ILE:HD13	1.99	0.44
11:C1:202:CYC:HHB	2:D1:87:ASP:OD1	2.18	0.44
2:D1:159:ASN:HD21	3:M1:46:ASN:C	2.25	0.44
3:E1:156:LEU:O	3:E1:160:ILE:HG13	2.18	0.44
3:G1:156:LEU:O	3:G1:160:ILE:HG13	2.18	0.44
3:I1:156:LEU:O	3:I1:160:ILE:HG13	2.18	0.44
2:L1:73:ASN:OD1	2:L1:73:ASN:N	2.28	0.44
3:M1:41:VAL:HG22	3:M1:97:THR:HG23	2.00	0.44
2:O1:36:PHE:HB2	2:O1:146:ALA:HB2	1.99	0.44
2:O1:87:ASP:OD1	11:O1:201:CYC:HHB	2.18	0.44
3:T1:41:VAL:HG22	3:T1:97:THR:HG23	2.00	0.44
11:U1:202:CYC:HMB1	11:U1:202:CYC:HHB	1.83	0.44
3:I2:110:LEU:HD22	3:I2:170:ALA:CB	2.36	0.44
11:P2:202:CYC:HMD3	11:P2:202:CYC:NC	2.33	0.44
2:Q2:146:ALA:O	2:Q2:150:THR:OG1	2.32	0.44
11:R2:201:CYC:HMD3	11:R2:201:CYC:NC	2.33	0.44
5:13:220:PHE:O	5:13:224:ILE:HG13	2.17	0.44
5:13:565:THR:OG1	5:13:566:LEU:N	2.51	0.44
7:I3:105:GLU:OE1	7:I3:155:TYR:OH	2.34	0.44
8:O3:157:CYS:O	8:O3:161:SER:OG	2.28	0.44
7:X3:151:ALA:CB	7:H7:20:PRO:HB3	2.43	0.44
7:o3:154:ASP:CG	8:W7:46:ALA:HB1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q3:25:ARG:NH1	7:Z7:24:ASP:CB	2.73	0.44
7:u3:20:PRO:HG2	7:O7:151:ALA:O	2.18	0.44
7:u3:151:ALA:CB	7:O7:20:PRO:CG	2.81	0.44
7:w3:70:GLY:CA	7:O7:64:ASP:OD2	2.62	0.44
11:F4:201:CYC:HMD2	3:G4:149:THR:O	2.18	0.44
3:I4:151:GLY:H	11:I4:202:CYC:C1C	2.31	0.44
2:Q4:140:HIS:CE1	2:Q4:146:ALA:HB1	2.53	0.44
2:S4:94:MET:HG3	2:S4:111:LEU:HG	2.00	0.44
2:U4:18:PHE:CE1	3:V4:91:ARG:CA	3.00	0.44
2:Y4:73:ASN:OD1	2:Y4:73:ASN:N	2.51	0.44
3:E5:41:VAL:HG22	3:E5:97:THR:HG23	2.00	0.44
3:E5:160:ILE:H	3:E5:160:ILE:HG13	1.68	0.44
2:H5:137:LYS:HA	2:H5:140:HIS:HD2	1.81	0.44
3:I5:41:VAL:HG22	3:I5:97:THR:HG23	2.00	0.44
2:L5:83:LYS:HG2	2:L5:86:ARG:HH11	1.82	0.44
11:V5:202:CYC:HHB	2:W5:87:ASP:OD1	2.18	0.44
1:A6:55:PHE:CD2	1:A6:175:ASN:HB3	2.52	0.44
2:J6:137:LYS:HA	2:J6:140:HIS:HD2	1.82	0.44
4:N6:194:ALA:HB3	3:P6:119:ALA:HB1	2.00	0.44
2:O6:84:CYS:CA	11:O6:201:CYC:HAC1	2.31	0.44
11:X6:202:CYC:CBD	11:X6:202:CYC:CHA	2.86	0.44
3:Z6:151:GLY:C	11:Z6:202:CYC:OB	2.60	0.44
7:E7:104:ILE:H	7:E7:104:ILE:HG13	1.60	0.44
7:J7:100:ASP:HB3	7:J7:102:THR:HG22	2.00	0.44
8:K7:34:GLY:HA2	8:K7:37:ARG:HD2	1.99	0.44
2:F8:83:LYS:HZ2	2:F8:86:ARG:HH12	1.66	0.44
3:G8:20:SER:OG	3:G8:21:SER:N	2.51	0.44
2:H8:142:LEU:HB2	2:H8:147:ALA:CB	2.47	0.44
3:I8:144:ASP:HA	3:I8:145:PRO:HD3	1.80	0.44
2:L8:94:MET:HG3	2:L8:111:LEU:HG	2.00	0.44
2:L8:149:GLU:CD	2:L8:153:TYR:CE2	2.95	0.44
2:Q8:103:GLY:HA2	2:U8:22:THR:CG2	2.47	0.44
2:S8:73:ASN:N	2:S8:73:ASN:OD1	2.51	0.44
2:S8:97:TYR:OH	3:T8:17:GLU:O	2.32	0.44
2:S8:150:THR:O	2:S8:153:TYR:CB	2.64	0.44
2:S8:150:THR:HA	2:S8:153:TYR:CD2	2.52	0.44
2:U8:149:GLU:CD	2:U8:153:TYR:CE2	2.89	0.44
3:Z8:127:VAL:HB	3:Z8:171:VAL:HG11	2.00	0.44
3:C1:77:ARG:HB2	2:D1:113:ALA:HB3	2.00	0.44
11:C1:202:CYC:CAC	2:D1:84:CYS:HG	2.08	0.44
2:D1:24:LEU:CD1	11:D1:201:CYC:HBB2	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F1:2:LYS:H	2:F1:105:GLY:HA3	1.83	0.44
2:F1:36:PHE:HB2	2:F1:146:ALA:HB2	1.99	0.44
3:R1:41:VAL:HG22	3:R1:97:THR:HG23	2.00	0.44
3:C2:65:GLN:H	3:C2:65:GLN:HG3	1.47	0.44
3:E2:126:SER:OG	11:E2:201:CYC:CMC	2.65	0.44
3:I2:146:ALA:C	3:I2:148:VAL:HG23	2.42	0.44
3:Z2:151:GLY:C	11:Z2:203:CYC:OB	2.60	0.44
5:03:265:MET:HE3	5:03:305:VAL:HG12	1.99	0.44
11:03:902:CYC:O2A	8:L3:83:ARG:CZ	2.61	0.44
5:13:563:GLU:CB	6:N7:30:LEU:HD21	2.48	0.44
5:13:789:ASN:HA	5:13:792:VAL:HG12	2.00	0.44
1:A4:194:VAL:CG2	1:A4:196:TRP:CD2	3.01	0.44
2:D4:92:LEU:HD13	2:D4:136:ILE:HD13	1.99	0.44
3:G4:51:ILE:CD1	3:G4:141:ILE:HD12	2.43	0.44
2:H4:94:MET:HG3	2:H4:111:LEU:HG	2.00	0.44
3:K4:115:GLU:HG2	4:N4:214:ARG:HB3	2.00	0.44
11:P4:202:CYC:HBC2	11:P4:202:CYC:HMC1	2.00	0.44
2:Q4:36:PHE:HZ	2:Q4:149:GLU:HG2	1.82	0.44
2:W4:92:LEU:HD13	2:W4:136:ILE:HD13	1.99	0.44
2:W4:94:MET:HG3	2:W4:111:LEU:HG	2.00	0.44
3:Z4:20:SER:OG	3:Z4:21:SER:N	2.51	0.44
11:C5:202:CYC:HHB	2:D5:87:ASP:OD1	2.17	0.44
3:K5:126:SER:OG	11:K5:201:CYC:HMC2	2.16	0.44
2:L5:137:LYS:HB3	2:L5:154:ILE:HG21	2.00	0.44
3:M5:41:VAL:HG22	3:M5:97:THR:HG23	2.00	0.44
11:C6:202:CYC:HMD3	11:C6:202:CYC:NC	2.32	0.44
2:S6:137:LYS:HA	2:S6:140:HIS:HD2	1.82	0.44
11:X6:202:CYC:HMD3	11:X6:202:CYC:NC	2.33	0.44
11:Z6:202:CYC:HMC1	11:Z6:202:CYC:HBC2	2.00	0.44
7:A7:115:MET:HE3	7:A7:115:MET:HB2	1.73	0.44
11:H7:1001:CYC:HAC1	11:H7:1001:CYC:HHD	1.71	0.44
2:B8:152:ASN:ND2	2:H8:21:ASN:CB	2.81	0.44
2:F8:94:MET:HG3	2:F8:111:LEU:HG	2.00	0.44
11:F8:201:CYC:HMD2	3:G8:149:THR:O	2.18	0.44
3:I8:20:SER:OG	3:I8:21:SER:N	2.51	0.44
3:M8:139:VAL:HA	3:M8:142:VAL:HG13	1.99	0.44
11:P8:202:CYC:HBC2	11:P8:202:CYC:HMC1	2.00	0.44
2:Q8:94:MET:HG3	2:Q8:111:LEU:HG	2.00	0.44
2:Q8:140:HIS:CE1	2:Q8:146:ALA:HB1	2.53	0.44
3:V8:20:SER:OG	3:V8:21:SER:N	2.51	0.44
3:X8:20:SER:OG	3:X8:21:SER:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D1:17:ARG:HH22	2:D1:20:SER:HB2	1.83	0.43
2:H1:36:PHE:HB2	2:H1:146:ALA:HB2	1.99	0.43
2:H1:83:LYS:HG2	2:H1:86:ARG:HH11	1.82	0.43
2:H1:87:ASP:OD1	11:H1:201:CYC:HHB	2.18	0.43
2:J1:36:PHE:HB2	2:J1:146:ALA:HB2	1.99	0.43
2:Q1:87:ASP:OD1	11:Q1:201:CYC:HHB	2.18	0.43
2:W1:28:TYR:OH	11:X1:202:CYC:C4B	2.66	0.43
11:I2:202:CYC:HBC2	11:I2:202:CYC:HMC1	2.00	0.43
4:N2:151:ARG:O	4:N2:159:HIS:NE2	2.50	0.43
2:Q2:73:ASN:N	2:Q2:73:ASN:OD1	2.42	0.43
3:T2:91:ARG:HE	3:T2:91:ARG:HB3	1.61	0.43
11:Z2:203:CYC:NC	11:Z2:203:CYC:HMD3	2.32	0.43
5:03:443:TYR:CE1	11:J3:201:CYC:CBA	3.01	0.43
5:13:155:PHE:O	5:13:159:THR:OG1	2.27	0.43
5:13:513:ASN:HB3	8:K7:107:ARG:HH21	1.83	0.43
11:13:902:CYC:HBC1	8:Y3:81:CYS:SG	2.58	0.43
6:23:52:LYS:HB2	6:23:52:LYS:HE3	1.79	0.43
8:J3:84:ASP:OD2	11:J3:201:CYC:ND	2.50	0.43
7:N3:105:GLU:OE1	7:N3:155:TYR:OH	2.34	0.43
7:T3:94:TYR:HD1	8:U3:19:LEU:HD11	1.82	0.43
7:Z3:25:ARG:HB3	7:L7:25:ARG:HH21	1.80	0.43
7:d3:25:ARG:HD2	7:i3:25:ARG:HD2	2.00	0.43
8:e3:3:ASP:OD2	8:e3:6:THR:OG1	2.30	0.43
7:k3:5:THR:OG1	8:l3:3:ASP:OD2	2.36	0.43
7:o3:59:PHE:CE2	7:o3:78:THR:HG21	2.47	0.43
7:y3:85:MET:HG3	11:y3:1001:CYC:HBC1	2.00	0.43
1:A4:203:PHE:HE1	1:A5:215:PRO:C	2.21	0.43
3:G4:143:MET:HE1	3:G4:157:GLN:HB3	1.95	0.43
11:I4:203:CYC:HMD3	2:J4:73:ASN:O	2.16	0.43
2:L4:150:THR:HG23	2:L4:154:ILE:HD11	2.00	0.43
3:M4:139:VAL:HA	3:M4:142:VAL:HG13	1.99	0.43
2:U4:24:LEU:HD11	3:V4:42:SER:HB2	1.93	0.43
11:Z4:202:CYC:NC	11:Z4:202:CYC:HMD3	2.33	0.43
2:B5:73:ASN:O	11:B5:201:CYC:HMD3	2.13	0.43
2:B5:137:LYS:HB3	2:B5:154:ILE:HG21	2.00	0.43
2:D5:17:ARG:HH22	2:D5:20:SER:HB2	1.83	0.43
2:F5:17:ARG:HH22	2:F5:20:SER:HB2	1.83	0.43
2:H5:17:ARG:HH22	2:H5:20:SER:HB2	1.83	0.43
2:H5:36:PHE:HB2	2:H5:146:ALA:HB2	1.99	0.43
3:M5:57:ARG:HE	3:M5:57:ARG:HB2	1.46	0.43
2:Q5:17:ARG:HH22	2:Q5:20:SER:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q5:137:LYS:HB3	2:Q5:154:ILE:HG21	2.00	0.43
3:T5:156:LEU:O	3:T5:160:ILE:HG13	2.18	0.43
3:V5:156:LEU:O	3:V5:160:ILE:HG13	2.18	0.43
2:W5:17:ARG:HH22	2:W5:20:SER:HB2	1.83	0.43
2:W5:36:PHE:HB2	2:W5:146:ALA:HB2	1.99	0.43
2:B6:137:LYS:HA	2:B6:140:HIS:HD2	1.82	0.43
11:I6:202:CYC:HMC1	11:I6:202:CYC:HBC2	2.00	0.43
3:V6:41:VAL:HG22	3:V6:97:THR:HG23	2.00	0.43
8:D7:157:CYS:O	8:D7:161:SER:OG	2.33	0.43
7:L7:22:GLU:HA	7:L7:25:ARG:HB2	1.98	0.43
11:L7:1001:CYC:HHD	11:L7:1001:CYC:HAC1	1.71	0.43
7:X7:117:LYS:CE	7:X7:117:LYS:CA	2.86	0.43
2:J8:140:HIS:ND1	2:J8:142:LEU:CG	2.80	0.43
3:M8:20:SER:OG	3:M8:21:SER:N	2.51	0.43
2:O8:23:GLU:N	2:O8:23:GLU:OE1	2.51	0.43
2:Q8:92:LEU:HD13	2:Q8:136:ILE:HD13	1.99	0.43
2:U8:86:ARG:HH22	3:Z8:67:ILE:HD12	1.82	0.43
2:W8:94:MET:HG3	2:W8:111:LEU:HG	2.00	0.43
1:A1:202:ARG:HA	7:q3:76:GLU:HG3	2.00	0.43
2:B1:17:ARG:HH22	2:B1:20:SER:HB2	1.83	0.43
2:F1:137:LYS:HB3	2:F1:154:ILE:HG21	2.00	0.43
2:H1:17:ARG:HH22	2:H1:20:SER:HB2	1.83	0.43
2:J1:137:LYS:HB3	2:J1:154:ILE:HG21	2.00	0.43
3:K1:151:GLY:CA	11:K1:202:CYC:CMD	2.78	0.43
2:L1:17:ARG:HH22	2:L1:20:SER:HB2	1.83	0.43
3:M1:160:ILE:H	3:M1:160:ILE:HG13	1.68	0.43
2:O1:137:LYS:HB3	2:O1:154:ILE:HG21	2.01	0.43
11:P1:202:CYC:HHD	11:P1:202:CYC:HAC1	1.82	0.43
2:Q1:17:ARG:HH22	2:Q1:20:SER:HB2	1.83	0.43
2:Q1:159:ASN:HD21	3:V1:46:ASN:C	2.23	0.43
2:S1:28:TYR:HH	11:T1:201:CYC:HB	1.55	0.43
3:V1:41:VAL:HG22	3:V1:97:THR:HG23	2.00	0.43
11:X1:203:CYC:HHB	2:Y1:87:ASP:OD1	2.18	0.43
4:a1:263:VAL:HG11	4:a1:271:LYS:HG2	2.00	0.43
1:A2:127:ILE:HG12	3:C2:84:ARG:CZ	2.48	0.43
11:C2:202:CYC:HBC2	11:C2:202:CYC:HMC1	2.01	0.43
2:H2:110:TYR:HA	3:M2:75:THR:HG23	2.00	0.43
2:S2:137:LYS:HA	2:S2:140:HIS:HD2	1.82	0.43
3:X2:40:ALA:HB1	11:X2:202:CYC:HBC3	1.93	0.43
4:a2:235:ASP:OD1	4:a2:235:ASP:N	2.39	0.43
5:03:829:ALA:HA	6:U7:38:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T3:98:ALA:HA	8:U3:5:ILE:HG21	2.00	0.43
7:o3:105:GLU:OE1	7:o3:155:TYR:OH	2.34	0.43
8:t3:59:SER:O	1:A4:206:PRO:HG2	2.18	0.43
2:B4:92:LEU:HD13	2:B4:136:ILE:HD13	1.99	0.43
3:E4:127:VAL:HB	3:E4:171:VAL:HG11	2.00	0.43
2:F4:92:LEU:HD13	2:F4:136:ILE:HD13	1.99	0.43
2:J4:19:LEU:HD21	3:K4:95:TYR:CD1	2.52	0.43
3:K4:24:LEU:HD23	3:K4:24:LEU:HA	1.81	0.43
11:K4:202:CYC:HMD3	11:K4:202:CYC:NC	2.32	0.43
2:S4:73:ASN:OD1	2:S4:73:ASN:N	2.51	0.43
2:W4:73:ASN:O	11:W4:201:CYC:HMD3	2.16	0.43
1:A5:180:ARG:HD3	11:G5:201:CYC:O1A	2.18	0.43
2:J5:73:ASN:O	11:J5:201:CYC:HMD3	2.13	0.43
2:J5:87:ASP:OD1	11:J5:201:CYC:HHB	2.18	0.43
2:S5:87:ASP:OD1	11:S5:201:CYC:HHB	2.17	0.43
2:U5:83:LYS:HG2	2:U5:86:ARG:HH11	1.82	0.43
3:V5:41:VAL:HG22	3:V5:97:THR:HG23	2.00	0.43
1:A6:66:LEU:HD11	1:A6:83:GLY:HA3	2.00	0.43
3:C6:32:ALA:O	3:C6:36:LYS:CE	2.66	0.43
3:M6:126:SER:OG	11:M6:201:CYC:CMC	2.65	0.43
3:R6:39:ASP:OD2	11:R6:201:CYC:CHB	2.64	0.43
11:R6:201:CYC:HMC1	11:R6:201:CYC:HBC2	2.00	0.43
3:X6:39:ASP:OD2	11:X6:202:CYC:ND	2.50	0.43
7:H7:100:ASP:HB3	7:H7:102:THR:HG22	2.00	0.43
8:M7:157:CYS:O	8:M7:161:SER:OG	2.33	0.43
8:W7:126:THR:OG1	11:W7:1001:CYC:CMC	2.63	0.43
7:Z7:100:ASP:HB3	7:Z7:102:THR:HG22	2.00	0.43
2:B8:73:ASN:OD1	2:B8:73:ASN:N	2.51	0.43
11:F8:201:CYC:C3C	3:G8:153:CYS:SG	3.06	0.43
2:J8:94:MET:HG3	2:J8:111:LEU:HG	2.00	0.43
3:K8:65:GLN:HE22	3:T8:123:PRO:HB3	1.83	0.43
2:O8:24:LEU:HB3	11:P8:202:CYC:HBB2	1.98	0.43
2:O8:94:MET:HG3	2:O8:111:LEU:HG	2.00	0.43
3:P8:20:SER:OG	3:P8:21:SER:N	2.51	0.43
11:T8:202:CYC:HMC1	11:T8:202:CYC:HBC2	2.00	0.43
2:J1:2:LYS:H	2:J1:105:GLY:HA3	1.84	0.43
3:K1:156:LEU:O	3:K1:160:ILE:HG13	2.18	0.43
3:M1:156:LEU:O	3:M1:160:ILE:HG13	2.18	0.43
4:N1:168:PHE:O	4:N1:172:ARG:NH2	2.46	0.43
2:U1:87:ASP:OD1	11:U1:201:CYC:HHB	2.18	0.43
3:X1:156:LEU:O	3:X1:160:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:181:TYR:CZ	3:G2:120:LEU:HD23	2.53	0.43
11:G2:201:CYC:HMD3	11:G2:201:CYC:NC	2.33	0.43
11:I2:202:CYC:HMD3	11:I2:202:CYC:NC	2.32	0.43
3:M2:65:GLN:HE22	3:R2:68:ALA:HB2	1.82	0.43
11:T2:202:CYC:HMD3	11:T2:202:CYC:NC	2.33	0.43
5:03:33:ARG:O	8:M3:94:TYR:OH	2.37	0.43
5:03:288:ARG:HD2	8:M3:83:ARG:CZ	2.47	0.43
5:13:2:THR:N	9:g3:163:GLU:OE2	2.51	0.43
7:I3:18:LEU:HD23	7:I3:18:LEU:HA	1.83	0.43
7:P3:85:MET:HG3	11:P3:1001:CYC:HBC1	2.00	0.43
7:X3:117:LYS:HZ2	7:J7:113:ARG:NH2	2.15	0.43
7:q3:85:MET:HG3	11:q3:1001:CYC:HBC1	2.00	0.43
7:y3:105:GLU:OE1	7:y3:155:TYR:OH	2.34	0.43
1:A4:180:ARG:HH22	3:G4:77:ARG:NH1	2.16	0.43
11:E4:202:CYC:NC	11:E4:202:CYC:HMD3	2.33	0.43
2:H4:142:LEU:HB2	2:H4:147:ALA:CB	2.47	0.43
2:L4:92:LEU:HD13	2:L4:136:ILE:HD13	1.99	0.43
2:O4:92:LEU:HD13	2:O4:136:ILE:HD13	1.99	0.43
3:T4:36:LYS:C	3:T4:156:LEU:CD1	2.91	0.43
3:Z4:139:VAL:C	3:Z4:142:VAL:CG1	2.83	0.43
2:D5:83:LYS:HG2	2:D5:86:ARG:HH11	1.83	0.43
2:O5:73:ASN:O	11:O5:201:CYC:HMD3	2.13	0.43
3:X5:156:LEU:O	3:X5:160:ILE:HG13	2.18	0.43
2:Y5:83:LYS:HG2	2:Y5:86:ARG:HH11	1.82	0.43
11:C6:202:CYC:HBD1	11:C6:202:CYC:CHA	2.28	0.43
11:P6:202:CYC:HMC1	11:P6:202:CYC:HBC2	2.00	0.43
2:W6:137:LYS:HA	2:W6:140:HIS:HD2	1.82	0.43
8:F7:34:GLY:HA2	8:F7:37:ARG:HD2	1.99	0.43
8:M7:61:LEU:HD23	8:M7:61:LEU:HA	1.87	0.43
7:S7:100:ASP:HB3	7:S7:102:THR:HG22	2.00	0.43
1:A8:203:PHE:CD2	1:A8:204:ARG:NH2	2.83	0.43
2:L8:73:ASN:OD1	2:L8:73:ASN:N	2.51	0.43
3:M8:127:VAL:HB	3:M8:171:VAL:HG11	2.00	0.43
1:A1:17:VAL:HB	3:E1:84:ARG:NH1	2.32	0.43
1:A1:180:ARG:HD3	11:G1:201:CYC:O1A	2.18	0.43
11:C1:201:CYC:HHD	11:C1:201:CYC:HAC1	1.82	0.43
2:F1:17:ARG:HH22	2:F1:20:SER:HB2	1.83	0.43
2:H1:2:LYS:H	2:H1:105:GLY:HA3	1.82	0.43
2:J1:87:ASP:OD1	11:J1:201:CYC:HHB	2.18	0.43
2:L1:87:ASP:OD1	11:L1:201:CYC:HHB	2.17	0.43
2:Q1:152:ASN:CG	2:U1:21:ASN:HD21	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S1:17:ARG:HH22	2:S1:20:SER:HB2	1.83	0.43
1:A2:23:GLY:O	2:J2:17:ARG:NH2	2.52	0.43
3:M2:41:VAL:HG22	3:M2:97:THR:HG23	2.00	0.43
11:P2:202:CYC:HMC1	11:P2:202:CYC:HBC2	2.00	0.43
3:T2:37:ARG:N	3:T2:156:LEU:HD11	2.32	0.43
5:13:665:ALA:N	8:c3:105:ASP:OD2	2.50	0.43
7:R3:85:MET:HG3	11:R3:1001:CYC:HBC1	2.00	0.43
7:T3:85:MET:HG3	11:T3:1001:CYC:HBC1	2.00	0.43
10:V3:16:ARG:NH1	10:V3:22:GLU:OE2	2.51	0.43
7:k3:85:MET:HG3	11:k3:1001:CYC:HBC1	2.00	0.43
2:H4:25:GLN:H	2:H4:25:GLN:HG3	1.65	0.43
3:I4:127:VAL:HB	3:I4:171:VAL:HG11	2.00	0.43
2:J4:64:PRO:HG3	2:J5:61:SER:OG	2.09	0.43
3:K4:67:ILE:CD1	11:L4:201:CYC:CGA	2.96	0.43
3:M4:156:LEU:HD23	3:M4:156:LEU:HA	1.79	0.43
3:P4:140:ALA:HA	3:P4:143:MET:HB3	1.99	0.43
2:S4:142:LEU:C	2:S4:147:ALA:HB2	2.44	0.43
2:S4:150:THR:HA	2:S4:153:TYR:CD2	2.53	0.43
11:T4:202:CYC:HMD3	11:T4:202:CYC:NC	2.33	0.43
1:A5:145:ASP:OD1	1:A5:145:ASP:N	2.43	0.43
3:C5:89:ILE:HD13	3:C5:89:ILE:HA	1.90	0.43
2:F5:137:LYS:HB3	2:F5:154:ILE:HG21	2.00	0.43
2:H5:137:LYS:HB3	2:H5:154:ILE:HG21	2.00	0.43
2:J5:83:LYS:HG2	2:J5:86:ARG:HH11	1.82	0.43
2:O5:17:ARG:HH22	2:O5:20:SER:HB2	1.83	0.43
2:U5:87:ASP:OD1	11:U5:201:CYC:HHB	2.18	0.43
3:G6:91:ARG:HE	3:G6:91:ARG:HB3	1.61	0.43
11:I6:202:CYC:HMD3	11:I6:202:CYC:NC	2.33	0.43
11:M6:202:CYC:NC	11:M6:202:CYC:HMD3	2.33	0.43
11:R6:201:CYC:HBD1	11:R6:201:CYC:CHA	2.28	0.43
3:V6:91:ARG:HE	3:V6:91:ARG:HB3	1.61	0.43
3:X6:37:ARG:CB	3:X6:156:LEU:HD21	2.48	0.43
11:X6:202:CYC:HMC1	11:X6:202:CYC:HBC2	2.00	0.43
3:Z6:144:ASP:HA	3:Z6:145:PRO:HD3	1.77	0.43
11:Z6:202:CYC:NC	11:Z6:202:CYC:HMD3	2.32	0.43
7:A7:104:ILE:H	7:A7:104:ILE:HG13	1.60	0.43
7:C7:100:ASP:HB3	7:C7:102:THR:HG22	2.00	0.43
7:E7:16:ARG:NH2	7:E7:17:TYR:O	2.48	0.43
8:F7:157:CYS:O	8:F7:161:SER:OG	2.33	0.43
8:R7:107:ARG:O	6:U7:20:ARG:NH2	2.52	0.43
6:U7:22:LEU:HD12	6:U7:22:LEU:HA	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:180:ARG:HH22	3:G8:77:ARG:NH1	2.16	0.43
3:C8:20:SER:OG	3:C8:21:SER:N	2.51	0.43
2:D8:33:GLN:CD	2:L8:25:GLN:NE2	2.75	0.43
3:G8:127:VAL:HB	3:G8:171:VAL:HG11	2.00	0.43
3:K8:20:SER:OG	3:K8:21:SER:N	2.51	0.43
11:L8:202:CYC:NC	11:L8:202:CYC:HMD3	2.33	0.43
2:O8:140:HIS:ND1	2:O8:142:LEU:CG	2.37	0.43
2:Q8:19:LEU:N	2:Q8:19:LEU:CD2	2.80	0.43
3:T8:20:SER:OG	3:T8:21:SER:N	2.51	0.43
2:U8:94:MET:HG3	2:U8:111:LEU:HG	2.00	0.43
2:Y8:83:LYS:HZ2	2:Y8:86:ARG:NH1	2.17	0.43
1:A1:85:LEU:HD22	1:A1:138:VAL:HB	1.99	0.43
2:H1:24:LEU:HD12	11:I1:202:CYC:HBB2	1.90	0.43
2:Q1:25:GLN:HG2	2:U1:33:GLN:HB2	1.99	0.43
11:R1:202:CYC:HMB1	11:R1:202:CYC:HHB	1.83	0.43
11:V1:202:CYC:HHB	2:W1:87:ASP:OD1	2.18	0.43
2:Y1:137:LYS:HB3	2:Y1:154:ILE:HG21	2.00	0.43
3:Z1:156:LEU:O	3:Z1:160:ILE:HG13	2.18	0.43
1:A2:219:LEU:HA	7:I3:79:ALA:HB2	2.01	0.43
11:M2:202:CYC:HBC2	11:M2:202:CYC:HMC1	2.01	0.43
4:N2:129:ILE:HD13	4:N2:129:ILE:HA	1.85	0.43
4:N2:161:THR:HG21	3:R2:113:LEU:HB3	2.00	0.43
11:P2:202:CYC:CBD	11:P2:202:CYC:CHA	2.86	0.43
5:03:521:THR:CG2	5:03:524:SER:CA	2.95	0.43
5:03:789:ASN:HA	5:03:792:VAL:HG12	2.00	0.43
5:13:874:ASP:N	5:13:874:ASP:OD2	2.52	0.43
8:M3:61:LEU:HD22	11:N3:1001:CYC:HAA1	1.99	0.43
7:P3:105:GLU:OE1	7:P3:155:TYR:OH	2.34	0.43
8:S3:3:ASP:OD2	8:S3:3:ASP:N	2.37	0.43
7:X3:76:GLU:O	7:X3:80:THR:OG1	2.34	0.43
7:Z3:113:ARG:HD3	7:H7:117:LYS:HZ3	1.81	0.43
7:d3:52:LYS:O	1:A6:200:VAL:HG13	2.18	0.43
7:o3:82:LEU:CD1	1:A5:221:MET:HB2	2.47	0.43
2:B4:94:MET:HG3	2:B4:111:LEU:HG	2.00	0.43
3:E4:67:ILE:CD1	11:E4:203:CYC:H2A	2.26	0.43
3:G4:20:SER:OG	3:G4:21:SER:N	2.51	0.43
3:G4:153:CYS:O	3:G4:156:LEU:N	2.52	0.43
2:J4:140:HIS:ND1	2:J4:142:LEU:CG	2.80	0.43
3:K4:20:SER:OG	3:K4:21:SER:N	2.51	0.43
2:O4:21:ASN:CG	2:W4:149:GLU:HG3	2.42	0.43
3:P4:20:SER:OG	3:P4:21:SER:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P4:24:LEU:HD23	3:P4:24:LEU:HA	1.81	0.43
2:Q4:24:LEU:HD22	3:R4:42:SER:HB3	1.98	0.43
3:T4:24:LEU:HD23	3:T4:24:LEU:HA	1.81	0.43
2:U4:150:THR:O	2:U4:153:TYR:HB2	2.19	0.43
3:X4:127:VAL:HB	3:X4:171:VAL:HG11	1.99	0.43
3:C5:151:GLY:CA	11:C5:201:CYC:CMD	2.78	0.43
2:H5:87:ASP:OD1	11:H5:201:CYC:HHB	2.18	0.43
3:K5:57:ARG:HE	3:K5:57:ARG:HB2	1.46	0.43
2:L5:17:ARG:HH22	2:L5:20:SER:HB2	1.83	0.43
3:R5:126:SER:OG	11:R5:201:CYC:HMC2	2.16	0.43
2:S5:83:LYS:HG2	2:S5:86:ARG:HH11	1.83	0.43
2:U5:17:ARG:HH22	2:U5:20:SER:HB2	1.83	0.43
3:C6:36:LYS:CE	11:C6:202:CYC:CGD	2.95	0.43
2:D6:39:GLU:HB2	3:E6:28:LYS:NZ	2.33	0.43
3:G6:151:GLY:N	11:G6:201:CYC:HMD2	2.32	0.43
11:G6:201:CYC:HMC1	11:G6:201:CYC:HBC2	2.01	0.43
6:G7:45:LYS:HE2	6:G7:45:LYS:HB3	1.81	0.43
8:T7:126:THR:OG1	11:T7:1001:CYC:CMC	2.63	0.43
2:B8:27:LEU:HD23	2:B8:27:LEU:O	2.18	0.43
2:H8:98:CYS:SG	2:H8:153:TYR:CD1	3.03	0.43
3:K8:115:GLU:HG2	4:N8:214:ARG:HB3	2.00	0.43
11:L8:202:CYC:HMC1	11:L8:202:CYC:HBC2	2.01	0.43
4:N8:199:SER:OG	4:N8:200:ALA:N	2.51	0.43
3:P8:153:CYS:O	3:P8:154:SER:C	2.59	0.43
2:Q8:13:ASP:OD2	3:R8:92:TYR:OH	2.30	0.43
3:R8:131:VAL:O	3:R8:135:GLY:N	2.49	0.43
2:S8:142:LEU:C	2:S8:147:ALA:HB2	2.44	0.43
3:T8:36:LYS:C	3:T8:156:LEU:CD1	2.91	0.43
3:T8:139:VAL:CA	3:T8:142:VAL:HG12	2.49	0.43
11:U8:201:CYC:H2A	3:Z8:67:ILE:CD1	2.26	0.43
4:a8:250:ARG:HB3	4:a8:252:PRO:HD2	2.00	0.43
2:J1:83:LYS:HG2	2:J1:86:ARG:HH11	1.82	0.43
3:X1:160:ILE:HG13	3:X1:160:ILE:H	1.68	0.43
11:K2:202:CYC:HBC2	11:K2:202:CYC:HMC1	2.01	0.43
3:R2:34:GLY:O	3:R2:38:SER:OG	2.31	0.43
5:13:9:SER:O	5:13:9:SER:OG	2.33	0.43
5:13:563:GLU:CB	6:N7:30:LEU:CD2	2.91	0.43
7:I3:20:PRO:CG	7:A7:155:TYR:HB2	2.48	0.43
7:I3:85:MET:HG3	11:I3:1001:CYC:HBC1	2.00	0.43
7:K3:85:MET:HG3	11:K3:1001:CYC:HBC1	2.00	0.43
7:P3:76:GLU:O	7:P3:80:THR:OG1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P3:86:ASP:OD1	9:Q3:18:TYR:OH	2.23	0.43
10:V3:27:LYS:HD2	8:W3:38:VAL:HG11	2.01	0.43
8:W3:3:ASP:OD2	8:W3:6:THR:OG1	2.30	0.43
7:Z3:113:ARG:HD2	7:H7:117:LYS:HZ1	1.82	0.43
7:d3:52:LYS:HE2	1:A6:201:ARG:CG	2.47	0.43
8:h3:3:ASP:OD2	8:h3:6:THR:OG1	2.30	0.43
7:i3:85:MET:HG3	11:i3:1001:CYC:HBC1	2.00	0.43
7:q3:105:GLU:OE1	7:q3:155:TYR:OH	2.34	0.43
7:u3:76:GLU:O	7:u3:80:THR:OG1	2.34	0.43
7:w3:47:ARG:HD3	8:x3:18:TYR:OH	2.17	0.43
7:w3:85:MET:HG3	11:w3:1001:CYC:HBC1	2.00	0.43
8:z3:62:TYR:O	1:A8:205:THR:HB	2.18	0.43
1:A4:209:VAL:HG23	1:A4:210:PRO:HD2	2.00	0.43
3:G4:127:VAL:HB	3:G4:171:VAL:HG11	2.00	0.43
3:R4:24:LEU:HD23	3:R4:24:LEU:HA	1.81	0.43
3:T4:127:VAL:HB	3:T4:171:VAL:HG11	2.00	0.43
2:U4:17:ARG:CZ	2:U4:17:ARG:CB	2.96	0.43
11:Z4:202:CYC:HMC1	11:Z4:202:CYC:HBC2	2.00	0.43
1:A5:89:THR:O	1:A5:93:SER:CB	2.60	0.43
3:C5:77:ARG:HB2	2:D5:113:ALA:HB3	2.00	0.43
2:D5:137:LYS:HB3	2:D5:154:ILE:HG21	2.00	0.43
3:K5:84:ARG:HH11	4:N5:251:TYR:CB	2.16	0.43
2:O5:83:LYS:HG2	2:O5:86:ARG:HH11	1.82	0.43
1:A6:36:VAL:HB	1:A6:41:ASP:HB3	2.01	0.43
1:A6:127:ILE:HG12	3:C6:84:ARG:CZ	2.48	0.43
3:K6:118:VAL:HG13	4:N6:182:ILE:HD12	2.00	0.43
11:M6:202:CYC:HMC1	11:M6:202:CYC:HBC2	2.01	0.43
2:Q6:4:PRO:HD3	2:U6:22:THR:HG22	1.99	0.43
2:W6:111:LEU:HD23	11:W6:201:CYC:CAB	2.12	0.43
2:Y6:146:ALA:O	2:Y6:150:THR:OG1	2.32	0.43
7:A7:81:CYS:SG	11:A7:1001:CYC:C2C	2.95	0.43
8:D7:34:GLY:HA2	8:D7:37:ARG:HD2	1.99	0.43
6:G7:6:ILE:HD13	6:G7:36:TRP:HZ3	1.84	0.43
7:Q7:100:ASP:HB3	7:Q7:102:THR:HG22	2.00	0.43
11:Z7:1001:CYC:HHD	11:Z7:1001:CYC:HAC1	1.71	0.43
2:B8:22:THR:CG2	2:H8:103:GLY:HA3	2.48	0.43
2:F8:149:GLU:HB3	2:F8:153:TYR:CD2	2.54	0.43
2:H8:94:MET:HG3	2:H8:111:LEU:HG	2.00	0.43
3:K8:143:MET:HE3	3:K8:157:GLN:HB2	1.92	0.43
3:R8:127:VAL:HB	3:R8:171:VAL:HG11	2.00	0.43
2:U8:150:THR:O	2:U8:153:TYR:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X8:67:ILE:HD12	2:Y8:83:LYS:NZ	2.33	0.43
2:Y8:73:ASN:OD1	2:Y8:73:ASN:N	2.51	0.43
2:Y8:94:MET:HG3	2:Y8:111:LEU:HG	2.00	0.43
1:A1:9:ALA:HA	1:A1:10:PRO:HD3	1.92	0.43
2:B1:87:ASP:OD1	11:B1:201:CYC:HHB	2.18	0.43
2:H1:137:LYS:HB3	2:H1:154:ILE:HG21	2.00	0.43
2:O1:17:ARG:HH22	2:O1:20:SER:HB2	1.83	0.43
11:P1:202:CYC:HMB1	11:P1:202:CYC:HHB	1.83	0.43
2:Q1:137:LYS:HB3	2:Q1:154:ILE:HG21	2.00	0.43
2:W1:1:MET:HE2	2:W1:1:MET:HB2	1.89	0.43
3:C2:3:ASP:N	3:C2:6:THR:OG1	2.41	0.43
3:C2:41:VAL:HG22	3:C2:97:THR:HG23	2.00	0.43
11:G2:201:CYC:HMC1	11:G2:201:CYC:HBC2	2.01	0.43
5:03:557:ILE:HD11	8:B7:83:ARG:HH11	1.79	0.43
5:03:632:ASP:OD2	6:G7:38:ARG:HD3	2.19	0.43
5:13:142:PRO:O	5:13:146:THR:OG1	2.37	0.43
5:13:443:TYR:O	8:Y3:118:SER:CB	2.67	0.43
8:Y3:39:ARG:NH2	7:H7:147:ALA:CB	2.82	0.43
7:Z3:95:GLY:HA3	7:Z3:104:ILE:HD11	2.01	0.43
7:b3:85:MET:HG3	11:b3:1001:CYC:HBC1	2.00	0.43
7:u3:65:VAL:HA	7:Q7:64:ASP:OD1	2.19	0.43
8:x3:66:THR:CB	11:y3:1001:CYC:O1A	2.66	0.43
2:B4:22:THR:CG2	2:H4:103:GLY:HA3	2.48	0.43
2:B4:152:ASN:ND2	2:H4:21:ASN:CB	2.81	0.43
11:E4:202:CYC:HBC2	11:E4:202:CYC:HMC1	2.01	0.43
2:H4:73:ASN:OD1	2:H4:73:ASN:N	2.51	0.43
11:L4:202:CYC:HMC1	11:L4:202:CYC:HBC2	2.01	0.43
3:M4:127:VAL:HB	3:M4:171:VAL:HG11	2.00	0.43
2:S4:150:THR:O	2:S4:153:TYR:CB	2.63	0.43
3:X4:67:ILE:HD12	2:Y4:83:LYS:NZ	2.33	0.43
3:G5:41:VAL:HG22	3:G5:97:THR:HG23	2.00	0.43
3:G5:89:ILE:HD13	3:G5:89:ILE:HA	1.90	0.43
2:J5:17:ARG:HH22	2:J5:20:SER:HB2	1.83	0.43
4:N5:168:PHE:O	4:N5:172:ARG:NH2	2.46	0.43
2:U5:137:LYS:HB3	2:U5:154:ILE:HG21	2.00	0.43
11:V5:202:CYC:HMD3	2:W5:73:ASN:O	2.13	0.43
2:Y5:137:LYS:HB3	2:Y5:154:ILE:HG21	2.00	0.43
1:A6:23:GLY:O	2:J6:17:ARG:NH2	2.52	0.43
11:R6:201:CYC:HMD3	11:R6:201:CYC:NC	2.33	0.43
2:U6:100:VAL:HG21	3:V6:19:ILE:HD12	2.00	0.43
3:X6:149:THR:OG1	11:X6:202:CYC:CHA	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A7:117:LYS:HB3	7:A7:117:LYS:HE2	1.26	0.43
7:A7:126:VAL:HG13	11:A7:1001:CYC:HBC3	2.01	0.43
7:H7:126:VAL:HG13	11:H7:1001:CYC:HBC3	2.01	0.43
8:K7:126:THR:OG1	11:K7:1001:CYC:CMC	2.63	0.43
8:a7:34:GLY:HA2	8:a7:37:ARG:HD2	1.99	0.43
2:D8:92:LEU:HD13	2:D8:136:ILE:HD13	1.99	0.43
2:O8:40:ALA:HB2	2:O8:146:ALA:HB1	2.01	0.43
2:O8:73:ASN:N	2:O8:73:ASN:OD1	2.51	0.43
2:O8:148:THR:OG1	11:X8:202:CYC:HMB1	2.17	0.43
2:S8:19:LEU:CD2	2:S8:19:LEU:N	2.82	0.43
2:S8:150:THR:HA	2:S8:153:TYR:CB	2.35	0.43
1:A1:24:GLY:O	2:J1:15:GLN:NE2	2.46	0.43
2:D1:137:LYS:HB3	2:D1:154:ILE:HG21	2.00	0.43
3:P1:57:ARG:HE	3:P1:57:ARG:HB2	1.46	0.43
2:W1:17:ARG:HH22	2:W1:20:SER:HB2	1.83	0.43
2:B2:79:ARG:HH21	3:G2:57:ARG:HH21	1.55	0.43
3:E2:65:GLN:H	3:E2:65:GLN:HG3	1.47	0.43
3:P2:109:CYS:O	3:P2:113:LEU:HB3	2.19	0.43
2:U2:146:ALA:O	2:U2:150:THR:OG1	2.32	0.43
11:X2:202:CYC:HMC1	11:X2:202:CYC:HBC2	2.00	0.43
5:03:420:PHE:HZ	11:M3:201:CYC:HAA1	1.84	0.43
7:P3:95:GLY:HA3	7:P3:104:ILE:HD11	2.01	0.43
9:Q3:169:LEU:HD23	9:Q3:169:LEU:HA	1.90	0.43
7:R3:95:GLY:HA3	7:R3:104:ILE:HD11	2.01	0.43
7:X3:95:GLY:HA3	7:X3:104:ILE:HD11	2.01	0.43
8:z3:157:CYS:O	8:z3:161:SER:OG	2.28	0.43
2:B4:150:THR:HG21	2:B4:154:ILE:HD11	1.98	0.43
11:C4:201:CYC:HMC1	11:C4:201:CYC:HBC2	2.01	0.43
2:D4:94:MET:HG3	2:D4:111:LEU:HG	2.00	0.43
2:O4:40:ALA:HB2	2:O4:146:ALA:HB1	2.01	0.43
3:R4:20:SER:OG	3:R4:21:SER:N	2.51	0.43
3:R4:127:VAL:HB	3:R4:171:VAL:HG11	2.00	0.43
11:R4:201:CYC:HBC2	11:R4:201:CYC:HMC1	2.01	0.43
2:S4:4:PRO:CD	2:Y4:22:THR:HG21	2.35	0.43
3:V4:20:SER:OG	3:V4:21:SER:N	2.51	0.43
3:Z4:139:VAL:O	3:Z4:143:MET:CA	2.60	0.43
2:J5:137:LYS:HB3	2:J5:154:ILE:HG21	2.00	0.43
3:K5:89:ILE:HD13	3:K5:89:ILE:HA	1.90	0.43
4:N5:21:GLU:OE2	4:N5:145:ASN:ND2	2.52	0.43
3:X5:41:VAL:HG22	3:X5:97:THR:HG23	2.00	0.43
2:Y5:17:ARG:HH22	2:Y5:20:SER:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z5:156:LEU:O	3:Z5:160:ILE:HG13	2.18	0.43
1:A6:181:TYR:CZ	3:G6:120:LEU:HD23	2.53	0.43
3:I6:146:ALA:C	3:I6:148:VAL:HG23	2.42	0.43
3:X6:150:SER:C	11:X6:202:CYC:HMD1	2.40	0.43
8:K7:135:GLU:H	8:K7:135:GLU:HG2	1.69	0.43
3:C8:151:GLY:N	11:C8:201:CYC:HC	2.17	0.43
3:E8:20:SER:OG	3:E8:21:SER:N	2.51	0.43
2:J8:19:LEU:HD21	3:K8:95:TYR:HD1	1.83	0.43
3:K8:143:MET:HE3	3:K8:157:GLN:CB	2.47	0.43
11:K8:202:CYC:HBD1	11:K8:202:CYC:CHA	2.29	0.43
2:O8:83:LYS:HZ2	11:O8:201:CYC:CGA	2.26	0.43
2:Q8:24:LEU:HD22	3:R8:42:SER:HB3	1.98	0.43
3:R8:20:SER:OG	3:R8:21:SER:N	2.51	0.43
2:S8:24:LEU:CD1	2:Y8:152:ASN:ND2	2.69	0.43
3:T8:24:LEU:HD23	3:T8:24:LEU:HA	1.81	0.43
3:T8:127:VAL:HB	3:T8:171:VAL:HG11	1.99	0.43
2:Y8:84:CYS:HB3	11:Y8:201:CYC:CAC	2.49	0.43
3:K1:41:VAL:HG22	3:K1:97:THR:HG23	2.00	0.43
2:U1:84:CYS:HG	11:U1:201:CYC:CAC	2.09	0.43
3:V1:156:LEU:O	3:V1:160:ILE:HG13	2.18	0.43
2:Y1:17:ARG:HH22	2:Y1:20:SER:HB2	1.83	0.43
2:B2:72:ASN:ND2	3:G2:57:ARG:NH1	2.66	0.43
11:G2:201:CYC:CBD	11:G2:201:CYC:CHA	2.86	0.43
3:M2:37:ARG:HA	3:M2:156:LEU:HD11	2.01	0.43
5:03:719:THR:OG1	6:U7:20:ARG:HG3	2.18	0.43
5:13:521:THR:CG2	5:13:524:SER:CB	2.91	0.43
8:J3:119:LEU:HD21	11:J3:201:CYC:HAA1	2.00	0.43
8:M3:74:THR:HB	7:N3:107:ILE:O	2.19	0.43
10:V3:43:LEU:HD22	10:V3:89:LEU:HD11	2.01	0.43
7:X3:66:VAL:HB	1:A6:227:ILE:CG2	2.49	0.43
8:c3:67:ARG:NE	1:A6:214:ASP:CG	2.66	0.43
7:d3:25:ARG:HB2	7:i3:25:ARG:HG3	2.01	0.43
7:d3:48:GLU:OE1	1:A6:208:ARG:CZ	2.67	0.43
7:s3:85:MET:HG3	11:s3:1001:CYC:HBC1	2.00	0.43
7:w3:70:GLY:CA	7:O7:64:ASP:OD1	2.67	0.43
8:x3:3:ASP:OD2	8:x3:3:ASP:N	2.37	0.43
3:C4:151:GLY:N	11:C4:201:CYC:HC	2.17	0.43
11:E4:203:CYC:CAC	2:F4:84:CYS:HB3	2.49	0.43
2:F4:15:GLN:HE22	2:J4:2:LYS:HD3	1.84	0.43
2:L4:94:MET:HG3	2:L4:111:LEU:HG	2.00	0.43
4:N4:47:TYR:OH	3:T4:88:ILE:HD13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P4:202:CYC:HBD1	11:P4:202:CYC:CHA	2.29	0.43
11:P4:202:CYC:HMD3	11:P4:202:CYC:NC	2.33	0.43
11:P4:202:CYC:CBD	11:P4:202:CYC:CHA	2.86	0.43
2:Q4:17:ARG:CZ	2:Q4:17:ARG:HB2	2.47	0.43
2:U4:86:ARG:HH22	3:Z4:67:ILE:HD12	1.82	0.43
3:X4:82:CYS:HG	11:X4:201:CYC:CAC	1.99	0.43
4:a4:250:ARG:HH22	4:a4:277:ARG:HG2	1.84	0.43
2:O5:87:ASP:OD1	11:O5:201:CYC:HHB	2.18	0.43
3:X5:160:ILE:HG13	3:X5:160:ILE:H	1.68	0.43
3:Z5:89:ILE:HD13	3:Z5:89:ILE:HA	1.90	0.43
3:C6:41:VAL:HG22	3:C6:97:THR:HG23	2.00	0.43
3:M6:113:LEU:HA	3:M6:116:THR:HG1	1.84	0.43
2:U6:118:ILE:HD13	2:U6:118:ILE:HA	1.83	0.43
7:C7:126:VAL:HG13	11:C7:1001:CYC:HBC3	2.01	0.43
8:I7:106:GLU:HG3	6:N7:57:THR:OG1	2.19	0.43
7:J7:62:ARG:NH1	7:J7:124:ASP:OD1	2.48	0.43
7:L7:21:GLY:O	7:L7:25:ARG:HG2	2.18	0.43
7:L7:126:VAL:HG13	11:L7:1001:CYC:HBC3	2.01	0.43
7:O7:100:ASP:HB3	7:O7:102:THR:HG22	2.00	0.43
8:Y7:76:ARG:HB2	7:Z7:110:VAL:HG21	2.01	0.43
2:F8:24:LEU:N	2:F8:24:LEU:HD22	2.34	0.43
11:K8:202:CYC:HBC2	11:K8:202:CYC:HMC1	2.01	0.43
2:L8:92:LEU:HD13	2:L8:136:ILE:HD13	1.99	0.43
4:N8:235:ASP:O	4:N8:290:GLN:NE2	2.52	0.43
11:P8:203:CYC:CAC	2:Q8:84:CYS:HB3	2.49	0.43
2:Q8:36:PHE:CZ	2:Q8:149:GLU:CG	3.01	0.43
11:R8:201:CYC:NC	11:R8:201:CYC:HMD3	2.33	0.43
2:U8:92:LEU:HD13	2:U8:136:ILE:HD13	1.99	0.43
2:W8:84:CYS:HB3	11:W8:201:CYC:CAC	2.49	0.43
2:W8:92:LEU:HD13	2:W8:136:ILE:HD13	1.99	0.43
1:A1:163:SER:HA	1:A1:170:GLY:HA3	2.01	0.43
1:A1:215:PRO:HB2	1:A8:203:PHE:HE1	1.84	0.43
2:U1:17:ARG:HH22	2:U1:20:SER:HB2	1.83	0.43
3:Z1:126:SER:OG	11:Z1:201:CYC:HMC2	2.16	0.43
2:D2:39:GLU:HB2	3:E2:28:LYS:NZ	2.33	0.43
4:N2:87:TYR:O	3:P2:108:ARG:NH1	2.52	0.43
5:03:9:SER:O	5:03:9:SER:OG	2.33	0.43
5:13:217:VAL:O	5:13:221:ASP:HB2	2.19	0.43
6:33:52:LYS:HB2	6:33:52:LYS:HE3	1.79	0.43
7:I3:95:GLY:HA3	7:I3:104:ILE:HD11	2.01	0.43
8:O3:52:VAL:O	8:O3:56:VAL:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T3:105:GLU:OE1	7:T3:155:TYR:OH	2.34	0.43
8:W3:52:VAL:O	8:W3:56:VAL:HG23	2.19	0.43
7:b3:95:GLY:HA3	7:b3:104:ILE:HD11	2.01	0.43
8:h3:52:VAL:O	8:h3:56:VAL:HG23	2.19	0.43
8:n3:52:VAL:O	8:n3:56:VAL:HG23	2.19	0.43
7:u3:85:MET:HG3	11:u3:1001:CYC:HBC1	2.00	0.43
8:v3:157:CYS:O	8:v3:161:SER:OG	2.28	0.43
7:w3:25:ARG:HH21	7:w3:25:ARG:CG	2.31	0.43
7:w3:76:GLU:O	7:w3:80:THR:OG1	2.34	0.43
8:x3:52:VAL:O	8:x3:56:VAL:HG23	2.19	0.43
7:y3:25:ARG:HG3	7:Q7:25:ARG:NH2	2.31	0.43
3:E4:20:SER:OG	3:E4:21:SER:N	2.51	0.43
3:I4:20:SER:OG	3:I4:21:SER:N	2.51	0.43
4:N4:251:TYR:CD2	4:N4:251:TYR:C	2.95	0.43
3:P4:137:ALA:O	3:P4:141:ILE:HG13	2.19	0.43
2:S4:24:LEU:CD1	2:Y4:152:ASN:ND2	2.69	0.43
3:X4:20:SER:OG	3:X4:21:SER:N	2.51	0.43
2:Y4:2:LYS:HZ2	2:Y4:7:GLU:HG3	1.84	0.43
2:B5:17:ARG:HH22	2:B5:20:SER:HB2	1.83	0.43
3:C5:156:LEU:O	3:C5:160:ILE:HG13	2.18	0.43
3:K5:41:VAL:HG22	3:K5:97:THR:HG23	2.00	0.43
2:S5:17:ARG:HH22	2:S5:20:SER:HB2	1.83	0.43
2:W5:28:TYR:OH	11:X5:202:CYC:C4B	2.66	0.43
11:X5:203:CYC:HHB	2:Y5:87:ASP:OD1	2.18	0.43
4:N6:161:THR:HG21	3:R6:113:LEU:HB3	2.00	0.43
3:P6:27:LEU:HD23	3:P6:27:LEU:HA	1.91	0.43
2:Q6:145:ASP:OD1	11:V6:202:CYC:C3B	2.67	0.43
2:W6:146:ALA:O	2:W6:150:THR:OG1	2.32	0.43
7:A7:72:ALA:CB	11:A7:1001:CYC:OC	2.63	0.43
8:D7:61:LEU:HD23	8:D7:61:LEU:HA	1.87	0.43
7:E7:22:GLU:HA	7:E7:25:ARG:HB2	2.00	0.43
8:F7:126:THR:HG1	11:F7:1001:CYC:HMC1	1.82	0.43
8:K7:79:ALA:HB2	7:L7:111:GLY:HA3	2.01	0.43
11:X7:1001:CYC:HHD	11:X7:1001:CYC:HAC1	1.71	0.43
2:B8:149:GLU:C	2:B8:153:TYR:CD2	2.87	0.43
11:C8:201:CYC:HMC1	11:C8:201:CYC:HBC2	2.01	0.43
2:D8:84:CYS:HB3	11:D8:201:CYC:CAC	2.49	0.43
3:E8:127:VAL:HB	3:E8:171:VAL:HG11	2.00	0.43
2:F8:24:LEU:O	2:F8:28:TYR:HD1	2.02	0.43
2:F8:31:LEU:HD13	2:F8:31:LEU:HA	1.84	0.43
2:H8:73:ASN:OD1	2:H8:73:ASN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N8:2:PRO:O	4:N8:4:THR:N	2.46	0.43
4:N8:47:TYR:OH	3:T8:88:ILE:HD13	2.18	0.43
4:N8:129:ILE:HA	4:N8:132:TYR:HD1	1.84	0.43
2:U8:19:LEU:CD2	2:U8:19:LEU:N	2.81	0.43
2:U8:73:ASN:OD1	2:U8:73:ASN:N	2.51	0.43
11:X8:202:CYC:HBC2	11:X8:202:CYC:HMC1	2.00	0.43
3:E1:7:ARG:O	3:E1:11:GLN:HG2	2.20	0.42
3:I1:89:ILE:HD13	3:I1:89:ILE:HA	1.90	0.42
2:S1:137:LYS:HB3	2:S1:154:ILE:HG21	2.00	0.42
1:A2:55:PHE:CD2	1:A2:175:ASN:HB3	2.52	0.42
1:A2:196:TRP:CZ3	7:N3:59:PHE:HD2	2.31	0.42
1:A2:196:TRP:CG	7:N3:66:VAL:HG11	2.54	0.42
2:D2:22:THR:HG22	2:L2:4:PRO:HD3	2.01	0.42
2:F2:17:ARG:HD2	2:J2:2:LYS:HZ2	1.83	0.42
2:Q2:145:ASP:OD1	11:V2:202:CYC:C3B	2.67	0.42
3:X2:146:ALA:C	3:X2:148:VAL:H	2.27	0.42
3:X2:149:THR:OG1	11:X2:202:CYC:CHA	2.66	0.42
2:Y2:118:ILE:HD13	2:Y2:118:ILE:HA	1.84	0.42
11:Z2:203:CYC:HMC1	11:Z2:203:CYC:HBC2	2.00	0.42
5:03:152:MET:HE2	5:03:152:MET:HB3	1.89	0.42
5:03:376:LEU:HD23	5:03:376:LEU:HA	1.90	0.42
5:03:454:PHE:CD1	11:H3:1001:CYC:HMA2	2.52	0.42
5:13:603:ARG:HB2	5:13:650:TYR:HB2	2.01	0.42
11:13:903:CYC:HHA	11:13:903:CYC:HAA2	1.92	0.42
7:K3:95:GLY:HA3	7:K3:104:ILE:HD11	2.01	0.42
8:M3:52:VAL:O	8:M3:56:VAL:HG23	2.19	0.42
7:T3:95:GLY:HA3	7:T3:104:ILE:HD11	2.01	0.42
7:X3:85:MET:HG3	11:X3:1001:CYC:HBC1	2.00	0.42
7:X3:117:LYS:HZ1	7:J7:113:ARG:HH12	1.50	0.42
7:f3:85:MET:HG3	11:f3:1001:CYC:HBC1	2.00	0.42
8:l3:52:VAL:O	8:l3:56:VAL:HG23	2.19	0.42
1:A4:216:ALA:O	1:A4:217:LEU:C	2.62	0.42
2:D4:33:GLN:CD	2:L4:25:GLN:NE2	2.75	0.42
11:I4:202:CYC:HBC2	11:I4:202:CYC:HMC1	2.00	0.42
11:I4:203:CYC:CAC	2:J4:84:CYS:HB3	2.49	0.42
3:K4:139:VAL:HA	3:K4:142:VAL:HG12	1.84	0.42
11:R4:201:CYC:NC	11:R4:201:CYC:HMD3	2.33	0.42
2:S4:19:LEU:CD2	2:S4:19:LEU:N	2.82	0.42
2:S4:150:THR:CG2	2:S4:154:ILE:HG13	2.49	0.42
3:T4:139:VAL:CA	3:T4:142:VAL:HG12	2.49	0.42
2:U4:34:GLY:HA2	2:U4:37:ALA:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:C5:201:CYC:HMB1	11:C5:201:CYC:HHB	1.83	0.42
3:E5:7:ARG:O	3:E5:11:GLN:HG2	2.19	0.42
2:F5:2:LYS:H	2:F5:105:GLY:HA3	1.83	0.42
3:G5:156:LEU:O	3:G5:160:ILE:HG13	2.18	0.42
3:K5:156:LEU:O	3:K5:160:ILE:HG13	2.18	0.42
3:M5:89:ILE:HD13	3:M5:89:ILE:HA	1.90	0.42
3:P5:41:VAL:HG22	3:P5:97:THR:HG23	2.00	0.42
3:T5:41:VAL:HG22	3:T5:97:THR:HG23	2.00	0.42
11:X5:203:CYC:HMD3	2:Y5:73:ASN:O	2.14	0.42
3:E6:3:ASP:N	3:E6:6:THR:OG1	2.41	0.42
3:M6:152:ASP:OD1	3:M6:152:ASP:N	2.52	0.42
11:U6:201:CYC:CGD	3:Z6:57:ARG:HH22	2.32	0.42
3:X6:57:ARG:C	3:X6:57:ARG:CD	2.92	0.42
7:E7:107:ILE:HD13	8:F7:13:ASP:OD1	2.19	0.42
7:H7:16:ARG:NH2	7:H7:17:TYR:O	2.48	0.42
7:S7:126:VAL:HG13	11:S7:1001:CYC:HBC3	2.01	0.42
7:V7:126:VAL:HG13	11:V7:1001:CYC:HBC3	2.01	0.42
2:B8:17:ARG:CZ	2:B8:17:ARG:HB2	2.49	0.42
2:D8:34:GLY:HA2	2:D8:37:ALA:HB3	2.02	0.42
2:J8:23:GLU:N	2:J8:23:GLU:OE1	2.52	0.42
2:L8:34:GLY:HA2	2:L8:37:ALA:HB3	2.01	0.42
3:M8:36:LYS:HB3	3:M8:156:LEU:CD1	2.49	0.42
2:U8:34:GLY:HA2	2:U8:37:ALA:HB3	2.01	0.42
3:K1:7:ARG:O	3:K1:11:GLN:HG2	2.20	0.42
2:U1:83:LYS:HG2	2:U1:86:ARG:HH11	1.82	0.42
11:V1:202:CYC:HMD3	2:W1:73:ASN:O	2.13	0.42
3:E2:3:ASP:N	3:E2:6:THR:OG1	2.41	0.42
3:G2:3:ASP:N	3:G2:6:THR:OG1	2.41	0.42
4:N2:194:ALA:HB3	3:P2:119:ALA:HB1	2.00	0.42
2:U2:100:VAL:HG21	3:V2:19:ILE:HD12	2.00	0.42
8:H3:157:CYS:O	8:H3:161:SER:OG	2.28	0.42
7:N3:85:MET:HG3	11:N3:1001:CYC:HBC1	2.00	0.42
7:R3:76:GLU:O	7:R3:80:THR:OG1	2.34	0.42
8:Y3:52:VAL:O	8:Y3:56:VAL:HG23	2.19	0.42
7:i3:95:GLY:HA3	7:i3:104:ILE:HD11	2.01	0.42
7:o3:72:ALA:C	7:o3:77:MET:HB3	2.44	0.42
8:z3:3:ASP:OD2	8:z3:3:ASP:N	2.37	0.42
8:z3:52:VAL:O	8:z3:56:VAL:HG23	2.19	0.42
2:B4:34:GLY:HA2	2:B4:37:ALA:HB3	2.02	0.42
2:F4:28:TYR:HB2	2:J4:32:ARG:HD3	2.01	0.42
2:J4:83:LYS:HZ2	2:J4:86:ARG:HH12	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N4:235:ASP:O	4:N4:290:GLN:NE2	2.52	0.42
2:O4:84:CYS:HB3	11:O4:201:CYC:CAC	2.49	0.42
1:A5:84:LEU:HD23	1:A5:84:LEU:HA	1.87	0.42
11:A5:301:CYC:O2A	3:C5:84:ARG:CZ	2.58	0.42
3:E5:156:LEU:O	3:E5:160:ILE:HG13	2.18	0.42
11:X5:202:CYC:HAC1	11:X5:202:CYC:HHD	1.82	0.42
11:I6:202:CYC:CBD	11:I6:202:CYC:CHA	2.86	0.42
11:V6:202:CYC:CBD	11:V6:202:CYC:CHA	2.85	0.42
3:X6:146:ALA:C	3:X6:148:VAL:H	2.27	0.42
11:V7:1001:CYC:HHD	11:V7:1001:CYC:HAC1	1.71	0.42
6:b7:17:ARG:HE	6:b7:17:ARG:HB2	1.62	0.42
3:E8:143:MET:HG3	3:E8:144:ASP:N	2.32	0.42
2:F8:28:TYR:OH	11:F8:201:CYC:C1B	2.67	0.42
11:F8:201:CYC:HMC1	11:F8:201:CYC:HBC2	2.01	0.42
3:G8:153:CYS:O	3:G8:156:LEU:N	2.52	0.42
2:L8:84:CYS:HB3	11:L8:201:CYC:CAC	2.49	0.42
2:Q8:103:GLY:CA	2:U8:22:THR:CG2	2.97	0.42
2:Q8:137:LYS:O	2:Q8:140:HIS:NE2	2.53	0.42
2:Y8:83:LYS:HZ2	2:Y8:86:ARG:HH12	1.66	0.42
3:Z8:149:THR:OG1	11:Z8:202:CYC:HAA2	2.19	0.42
11:Z8:202:CYC:HMC1	11:Z8:202:CYC:HBC2	2.00	0.42
4:a8:250:ARG:HH22	4:a8:277:ARG:HG2	1.84	0.42
1:A1:50:TYR:CZ	1:A1:62:ARG:HG2	2.55	0.42
3:C1:57:ARG:HE	3:C1:57:ARG:HB2	1.46	0.42
11:D1:201:CYC:HAA1	11:D1:201:CYC:HHA	1.88	0.42
4:N1:21:GLU:OE2	4:N1:145:ASN:ND2	2.52	0.42
3:P1:7:ARG:O	3:P1:11:GLN:HG2	2.20	0.42
1:A2:36:VAL:HB	1:A2:41:ASP:HB3	2.01	0.42
1:A2:227:ILE:HG12	7:I3:66:VAL:CG1	2.38	0.42
11:E2:202:CYC:HBC2	11:E2:202:CYC:HMC1	2.01	0.42
3:K2:118:VAL:HG13	4:N2:182:ILE:HD12	2.00	0.42
3:M2:106:ASN:CA	3:M2:110:LEU:HD12	2.47	0.42
4:N2:256:ARG:HE	4:N2:256:ARG:HB2	1.63	0.42
3:V2:149:THR:O	3:V2:150:SER:C	2.62	0.42
6:33:29:LYS:HE3	6:33:31:VAL:HG22	2.02	0.42
7:K3:64:ASP:OD2	7:A7:70:GLY:N	2.52	0.42
7:X3:102:THR:O	7:X3:106:GLU:CB	2.59	0.42
7:f3:18:LEU:HA	7:f3:18:LEU:HD23	1.83	0.42
7:f3:95:GLY:HA3	7:f3:104:ILE:HD11	2.01	0.42
10:m3:127:VAL:HG13	10:m3:157:THR:HG23	2.01	0.42
7:s3:95:GLY:HA3	7:s3:104:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:57:ARG:NH1	2:D4:72:ASN:CG	2.77	0.42
3:K4:131:VAL:HA	3:K4:134:MET:HE2	2.02	0.42
2:L4:34:GLY:HA2	2:L4:37:ALA:HB3	2.01	0.42
3:M4:20:SER:OG	3:M4:21:SER:N	2.51	0.42
3:M4:24:LEU:HD23	3:M4:24:LEU:HA	1.81	0.42
2:Q4:94:MET:HG3	2:Q4:111:LEU:HG	2.00	0.42
3:R4:155:SER:O	3:R4:158:GLN:CB	2.67	0.42
3:T4:82:CYS:HG	11:T4:201:CYC:CAC	2.05	0.42
11:T4:202:CYC:HBC2	11:T4:202:CYC:HMC1	2.00	0.42
2:W4:84:CYS:HB3	11:W4:201:CYC:CAC	2.49	0.42
3:Z4:127:VAL:HB	3:Z4:171:VAL:HG11	2.00	0.42
3:Z4:149:THR:OG1	11:Z4:202:CYC:HAA2	2.19	0.42
1:A5:50:TYR:CZ	1:A5:62:ARG:HG2	2.55	0.42
3:C5:57:ARG:HE	3:C5:57:ARG:HB2	1.46	0.42
3:I5:7:ARG:O	3:I5:11:GLN:HG2	2.20	0.42
3:M5:126:SER:OG	11:M5:201:CYC:HMC2	2.16	0.42
2:O5:137:LYS:HB3	2:O5:154:ILE:HG21	2.00	0.42
3:R5:7:ARG:O	3:R5:11:GLN:HG2	2.20	0.42
3:V5:7:ARG:O	3:V5:11:GLN:HG2	2.20	0.42
3:V5:160:ILE:HG13	3:V5:160:ILE:H	1.68	0.42
11:V6:202:CYC:HMC1	11:V6:202:CYC:HBC2	2.01	0.42
7:A7:100:ASP:HB3	7:A7:102:THR:HG22	2.00	0.42
7:E7:100:ASP:HB3	7:E7:102:THR:HG22	2.00	0.42
8:I7:10:ASN:O	8:I7:14:VAL:HG12	2.20	0.42
7:J7:126:VAL:HG13	11:J7:1001:CYC:HBC3	2.01	0.42
8:Y7:157:CYS:O	8:Y7:161:SER:OG	2.33	0.42
8:a7:53:LYS:HB3	8:a7:53:LYS:HE2	1.88	0.42
2:B8:34:GLY:HA2	2:B8:37:ALA:HB3	2.01	0.42
2:D8:94:MET:HG3	2:D8:111:LEU:HG	2.00	0.42
3:G8:143:MET:HE1	3:G8:157:GLN:HB3	1.95	0.42
2:H8:84:CYS:HB3	11:M8:201:CYC:CAC	2.49	0.42
2:O8:34:GLY:HA2	2:O8:37:ALA:HB3	2.01	0.42
2:H1:24:LEU:HD13	11:I1:202:CYC:CBB	2.45	0.42
3:I1:41:VAL:HG22	3:I1:97:THR:HG23	2.00	0.42
11:I1:202:CYC:HHB	11:I1:202:CYC:HMB3	1.79	0.42
2:S1:24:LEU:HD12	11:T1:201:CYC:CBB	2.48	0.42
3:X1:41:VAL:HG22	3:X1:97:THR:HG23	2.00	0.42
2:J2:118:ILE:HD13	2:J2:118:ILE:HA	1.84	0.42
2:L2:6:THR:HG23	3:M2:1:MET:SD	2.60	0.42
3:X2:39:ASP:OD2	11:X2:202:CYC:ND	2.50	0.42
5:03:858:PHE:CD2	8:x3:115:THR:HG23	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:13:512:ASN:O	6:N7:23:GLN:OE1	2.37	0.42
5:13:557:ILE:CG1	8:I7:83:ARG:NH1	2.83	0.42
7:G3:85:MET:HG3	11:G3:1001:CYC:HBC1	2.00	0.42
7:I3:64:ASP:HB3	7:C7:67:SER:CB	2.49	0.42
7:K3:105:GLU:OE1	7:K3:155:TYR:OH	2.34	0.42
8:L3:52:VAL:O	8:L3:56:VAL:HG23	2.19	0.42
7:R3:105:GLU:OE1	7:R3:155:TYR:OH	2.34	0.42
8:S3:52:VAL:O	8:S3:56:VAL:HG23	2.19	0.42
10:V3:127:VAL:HG13	10:V3:157:THR:HG23	2.01	0.42
8:c3:52:VAL:O	8:c3:56:VAL:HG23	2.19	0.42
7:d3:52:LYS:HE2	1:A6:201:ARG:CB	2.48	0.42
8:e3:52:VAL:O	8:e3:56:VAL:HG23	2.19	0.42
11:i3:1001:CYC:O1A	8:n3:66:THR:CB	2.66	0.42
11:t3:1001:CYC:HHA	11:t3:1001:CYC:HAA2	1.92	0.42
3:C4:142:VAL:O	3:C4:142:VAL:HG22	2.19	0.42
3:C4:153:CYS:SG	11:C4:201:CYC:HAC1	2.44	0.42
2:D4:34:GLY:HA2	2:D4:37:ALA:HB3	2.01	0.42
2:F4:150:THR:HG23	2:F4:154:ILE:HG13	2.01	0.42
11:F4:201:CYC:C3C	3:G4:153:CYS:SG	3.06	0.42
2:H4:140:HIS:CE1	2:H4:142:LEU:CG	3.00	0.42
2:J4:83:LYS:HZ2	2:J4:86:ARG:NH1	2.17	0.42
2:O4:94:MET:HG3	2:O4:111:LEU:HG	2.00	0.42
3:P4:82:CYS:HG	11:P4:201:CYC:CAC	2.00	0.42
3:T4:20:SER:OG	3:T4:21:SER:N	2.51	0.42
2:U4:19:LEU:CD2	2:U4:19:LEU:N	2.81	0.42
2:U4:83:LYS:HZ2	11:U4:201:CYC:CGA	2.25	0.42
2:U4:84:CYS:HB3	11:U4:201:CYC:CAC	2.49	0.42
3:V4:139:VAL:O	3:V4:142:VAL:C	2.61	0.42
3:X4:153:CYS:HG	11:X4:202:CYC:CBC	1.98	0.42
2:J5:24:LEU:HD13	11:K5:202:CYC:HBB2	2.01	0.42
11:K5:202:CYC:HMB3	11:K5:202:CYC:HHB	1.79	0.42
3:M5:7:ARG:O	3:M5:11:GLN:HG2	2.20	0.42
3:P5:156:LEU:O	3:P5:160:ILE:HG13	2.18	0.42
3:X5:7:ARG:O	3:X5:11:GLN:HG2	2.20	0.42
4:a5:246:LEU:H	4:a5:257:SER:HB2	1.84	0.42
3:M6:41:VAL:HG22	3:M6:97:THR:HG23	2.00	0.42
7:X7:62:ARG:HE	7:X7:64:ASP:CG	2.21	0.42
8:a7:10:ASN:O	8:a7:14:VAL:HG12	2.20	0.42
2:B8:150:THR:HG21	2:B8:154:ILE:HD11	1.98	0.42
2:D8:149:GLU:HB3	2:D8:153:TYR:HE2	1.84	0.42
3:G8:36:LYS:CB	3:G8:156:LEU:HD11	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I8:131:VAL:HA	3:I8:134:MET:HE2	2.02	0.42
3:P8:137:ALA:O	3:P8:141:ILE:HG13	2.19	0.42
3:T8:139:VAL:HA	3:T8:142:VAL:HG12	1.94	0.42
3:X8:127:VAL:HB	3:X8:171:VAL:HG11	1.99	0.42
2:Y8:154:ILE:O	2:Y8:158:ILE:HG13	2.20	0.42
2:F1:111:LEU:CD2	11:F1:201:CYC:CAB	2.78	0.42
3:I1:108:ARG:HA	4:N1:227:GLY:HA2	2.01	0.42
2:J1:17:ARG:HH22	2:J1:20:SER:HB2	1.83	0.42
3:M1:15:ARG:HH21	3:T1:132:ARG:HD3	1.84	0.42
4:N1:69:ARG:HG3	4:N1:133:ILE:HD11	2.01	0.42
3:R1:7:ARG:O	3:R1:11:GLN:HG2	2.20	0.42
3:Z1:7:ARG:O	3:Z1:11:GLN:HG2	2.20	0.42
11:Z1:202:CYC:HMB1	11:Z1:202:CYC:HHB	1.83	0.42
4:a1:246:LEU:H	4:a1:257:SER:HB2	1.84	0.42
1:A2:107:CYS:SG	1:A2:108:ILE:N	2.93	0.42
3:K2:151:GLY:N	11:K2:202:CYC:HMD2	2.33	0.42
4:N2:84:LYS:HA	4:N2:179:ARG:HH21	1.85	0.42
5:03:577:ASP:OD1	5:03:577:ASP:N	2.51	0.42
5:03:724:LYS:HA	5:03:724:LYS:HD3	1.84	0.42
5:13:11:LEU:HA	9:g3:119:SER:HB2	2.01	0.42
5:13:413:LEU:HD23	5:13:413:LEU:HA	1.86	0.42
7:G3:95:GLY:HA3	7:G3:104:ILE:HD11	2.01	0.42
7:K3:70:GLY:CA	7:A7:64:ASP:CG	2.93	0.42
7:X3:27:LYS:NZ	8:Y3:35:ALA:HB1	2.35	0.42
8:Y3:46:ALA:CB	7:H7:154:ASP:OD1	2.65	0.42
8:a3:52:VAL:O	8:a3:56:VAL:HG23	2.19	0.42
10:m3:16:ARG:NH1	10:m3:22:GLU:OE2	2.51	0.42
11:r3:1001:CYC:HAC1	11:r3:1001:CYC:HHD	1.86	0.42
2:B4:73:ASN:OD1	2:B4:73:ASN:N	2.51	0.42
2:D4:36:PHE:CG	2:D4:145:ASP:HB2	2.55	0.42
3:E4:43:ARG:HH12	3:E4:146:ALA:H	1.68	0.42
11:F4:201:CYC:HMC1	11:F4:201:CYC:HBC2	2.01	0.42
2:H4:84:CYS:HB3	11:M4:201:CYC:CAC	2.49	0.42
3:I4:36:LYS:HB3	3:I4:156:LEU:CD1	2.37	0.42
3:I4:144:ASP:HA	3:I4:145:PRO:HD3	1.80	0.42
2:J4:67:THR:C	2:J5:57:GLN:HG3	2.44	0.42
2:Y4:36:PHE:CG	2:Y4:145:ASP:CB	3.03	0.42
2:D5:159:ASN:HD21	3:M5:46:ASN:C	2.25	0.42
11:P5:202:CYC:HHD	11:P5:202:CYC:HAC1	1.82	0.42
2:Q5:159:ASN:HD21	3:V5:46:ASN:C	2.23	0.42
2:S5:137:LYS:HB3	2:S5:154:ILE:HG21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W5:137:LYS:HB3	2:W5:154:ILE:HG21	2.00	0.42
3:X5:111:ASN:OD1	3:X5:111:ASN:N	2.31	0.42
11:C6:202:CYC:HBC2	11:C6:202:CYC:HMC1	2.01	0.42
3:I6:149:THR:OG1	11:I6:202:CYC:C3D	2.68	0.42
3:M6:106:ASN:CA	3:M6:110:LEU:HD12	2.47	0.42
4:N6:161:THR:HG23	11:N6:301:CYC:HAB2	2.02	0.42
8:B7:10:ASN:O	8:B7:14:VAL:HG12	2.20	0.42
8:I7:85:LEU:HD23	8:I7:85:LEU:HA	1.90	0.42
7:O7:126:VAL:HG13	11:O7:1001:CYC:HBC3	2.01	0.42
2:B8:150:THR:HG23	2:B8:154:ILE:HD11	1.99	0.42
11:C8:201:CYC:CMB	2:H8:148:THR:CG2	2.98	0.42
2:H8:31:LEU:HD13	2:H8:31:LEU:HA	1.84	0.42
2:H8:154:ILE:O	2:H8:158:ILE:HG13	2.20	0.42
2:J8:83:LYS:HZ2	2:J8:86:ARG:HH12	1.65	0.42
2:S8:17:ARG:CZ	2:S8:17:ARG:CB	2.98	0.42
2:S8:34:GLY:HA2	2:S8:37:ALA:HB3	2.01	0.42
2:U8:149:GLU:HG2	2:U8:153:TYR:CE2	2.12	0.42
3:V8:131:VAL:HA	3:V8:134:MET:HE2	2.02	0.42
3:C1:156:LEU:O	3:C1:160:ILE:HG13	2.18	0.42
3:G1:143:MET:O	11:G1:202:CYC:HMC1	2.20	0.42
3:I1:7:ARG:O	3:I1:11:GLN:HG2	2.20	0.42
4:N1:12:THR:O	4:N1:12:THR:OG1	2.31	0.42
2:U1:137:LYS:HB3	2:U1:154:ILE:HG21	2.00	0.42
3:Z1:41:VAL:HG22	3:Z1:97:THR:HG23	2.00	0.42
1:A2:66:LEU:HD11	1:A2:83:GLY:HA3	2.00	0.42
3:I2:149:THR:OG1	11:I2:202:CYC:C3D	2.68	0.42
4:N2:10:LEU:HD23	4:N2:10:LEU:HA	1.90	0.42
2:U2:13:ASP:OD2	3:V2:92:TYR:OH	2.34	0.42
5:03:43:LEU:HA	5:03:43:LEU:HD23	1.83	0.42
5:03:217:VAL:O	5:03:221:ASP:HB2	2.19	0.42
5:03:261:GLN:HG2	7:T3:14:GLU:HG3	2.01	0.42
5:03:443:TYR:CE1	11:J3:201:CYC:HBA1	2.54	0.42
5:03:491:LEU:HD21	11:03:902:CYC:HBB2	2.02	0.42
7:I3:3:ILE:HD11	7:A7:25:ARG:CZ	2.49	0.42
8:J3:52:VAL:O	8:J3:56:VAL:HG23	2.19	0.42
8:S3:3:ASP:OD2	8:S3:6:THR:OG1	2.30	0.42
11:V3:201:CYC:HBC3	11:V3:201:CYC:H2C	1.87	0.42
7:d3:83:ARG:HA	1:A6:203:PHE:CE1	2.45	0.42
7:d3:95:GLY:HA3	7:d3:104:ILE:HD11	2.01	0.42
8:j3:79:ALA:HB2	7:k3:111:GLY:HA3	2.01	0.42
7:o3:73:TYR:N	7:o3:77:MET:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:w3:79:ALA:HB1	1:A4:219:LEU:CA	2.50	0.42
7:w3:82:LEU:O	1:A4:218:PHE:CD1	2.72	0.42
2:B4:17:ARG:CZ	2:B4:17:ARG:HB2	2.49	0.42
2:D4:73:ASN:OD1	2:D4:73:ASN:N	2.51	0.42
2:F4:154:ILE:O	2:F4:158:ILE:HG13	2.20	0.42
2:J4:23:GLU:N	2:J4:23:GLU:OE1	2.52	0.42
2:L4:23:GLU:HA	2:L4:26:TYR:CD1	2.54	0.42
2:L4:84:CYS:HB3	11:L4:201:CYC:CAC	2.49	0.42
4:N4:237:GLN:HA	4:N4:290:GLN:HB3	2.00	0.42
11:P4:203:CYC:CAC	2:Q4:84:CYS:HB3	2.49	0.42
2:Q4:137:LYS:O	2:Q4:140:HIS:NE2	2.53	0.42
2:S4:84:CYS:HB3	11:S4:201:CYC:CAC	2.49	0.42
3:T4:37:ARG:HA	3:T4:156:LEU:HD11	2.02	0.42
2:W4:34:GLY:HA2	2:W4:37:ALA:HB3	2.02	0.42
2:Y4:94:MET:HG3	2:Y4:111:LEU:HG	2.00	0.42
11:G5:202:CYC:HMB3	11:G5:202:CYC:HHB	1.79	0.42
3:M5:39:ASP:CG	11:M5:202:CYC:NA	2.78	0.42
3:R5:156:LEU:O	3:R5:160:ILE:HG13	2.18	0.42
3:T5:143:MET:O	11:T5:201:CYC:HMC1	2.20	0.42
11:U5:202:CYC:HAA1	11:U5:202:CYC:HHA	1.88	0.42
11:K6:202:CYC:HBC2	11:K6:202:CYC:HMC1	2.01	0.42
8:R7:10:ASN:O	8:R7:14:VAL:HG12	2.20	0.42
1:A8:123:ILE:HG12	3:C8:116:THR:HG23	2.01	0.42
3:G8:131:VAL:HA	3:G8:134:MET:HE2	2.02	0.42
11:I8:203:CYC:CAC	2:J8:84:CYS:HB3	2.49	0.42
2:L8:150:THR:O	2:L8:154:ILE:N	2.43	0.42
3:M8:139:VAL:CA	3:M8:142:VAL:CG1	2.96	0.42
3:R8:155:SER:O	3:R8:158:GLN:CB	2.67	0.42
2:S8:150:THR:CG2	2:S8:154:ILE:HG13	2.49	0.42
2:U8:154:ILE:O	2:U8:158:ILE:HG13	2.20	0.42
2:Y8:34:GLY:HA2	2:Y8:37:ALA:HB3	2.02	0.42
2:B1:73:ASN:O	11:B1:201:CYC:HMD3	2.13	0.42
2:B1:137:LYS:HB3	2:B1:154:ILE:HG21	2.00	0.42
3:C1:7:ARG:O	3:C1:11:GLN:HG2	2.20	0.42
2:D1:4:PRO:HD3	2:L1:22:THR:HG22	2.02	0.42
3:G1:7:ARG:O	3:G1:11:GLN:HG2	2.20	0.42
2:H1:30:ARG:HA	2:H1:30:ARG:HD2	1.95	0.42
3:K1:143:MET:O	11:K1:202:CYC:HMC1	2.20	0.42
4:N1:47:TYR:CD2	3:T1:84:ARG:HD2	2.55	0.42
1:A2:196:TRP:HB3	7:N3:66:VAL:HG11	2.01	0.42
4:N2:214:ARG:HE	4:N2:214:ARG:HB3	1.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X2:151:GLY:C	11:X2:202:CYC:CMD	2.84	0.42
5:03:237:ARG:NH2	5:03:403:GLU:OE2	2.53	0.42
5:03:482:HIS:HB2	5:03:489:ASN:OD1	2.19	0.42
5:03:522:ASN:OD1	8:D7:13:ASP:OD2	2.38	0.42
5:13:557:ILE:CD1	8:I7:83:ARG:NE	2.74	0.42
5:13:728:LYS:HA	5:13:728:LYS:HD3	1.81	0.42
8:j3:3:ASP:OD2	8:j3:6:THR:OG1	2.30	0.42
7:o3:85:MET:HG3	11:o3:1001:CYC:HBC1	2.00	0.42
2:B4:21:ASN:ND2	2:H4:152:ASN:ND2	2.67	0.42
3:E4:108:ARG:HA	3:E4:108:ARG:HD3	1.91	0.42
2:F4:149:GLU:HB3	2:F4:153:TYR:CD2	2.54	0.42
3:G4:104:VAL:O	3:G4:108:ARG:HB2	2.20	0.42
2:H4:86:ARG:NH2	3:M4:67:ILE:HD12	2.34	0.42
3:I4:104:VAL:O	3:I4:108:ARG:HB2	2.20	0.42
3:K4:36:LYS:HB3	3:K4:156:LEU:HD12	2.01	0.42
3:M4:36:LYS:HB3	3:M4:156:LEU:CD1	2.49	0.42
3:P4:104:VAL:O	3:P4:108:ARG:HB2	2.20	0.42
3:P4:156:LEU:HD23	3:P4:156:LEU:HA	1.93	0.42
3:R4:131:VAL:O	3:R4:135:GLY:N	2.49	0.42
2:Y4:36:PHE:HZ	2:Y4:149:GLU:OE1	2.02	0.42
3:E5:114:ARG:HH22	3:E5:172:GLU:HB2	1.85	0.42
3:I5:89:ILE:HD13	3:I5:89:ILE:HA	1.90	0.42
11:I5:202:CYC:HHA	11:I5:202:CYC:HAA1	1.88	0.42
2:J5:2:LYS:H	2:J5:105:GLY:HA3	1.84	0.42
4:N5:47:TYR:CD2	3:T5:84:ARG:HD2	2.55	0.42
3:T5:7:ARG:O	3:T5:11:GLN:HG2	2.20	0.42
3:V5:89:ILE:HD13	3:V5:89:ILE:HA	1.90	0.42
11:X5:202:CYC:HAA1	11:X5:202:CYC:HHA	1.88	0.42
3:Z5:143:MET:O	11:Z5:202:CYC:HMC1	2.20	0.42
2:D6:52:VAL:HG22	2:D6:88:ILE:HG22	2.02	0.42
2:H6:110:TYR:HA	3:M6:75:THR:HG23	2.00	0.42
3:P6:109:CYS:O	3:P6:113:LEU:HB3	2.19	0.42
11:T6:201:CYC:HMC1	11:T6:201:CYC:HBC2	2.00	0.42
4:a6:271:LYS:NZ	4:a6:274:GLU:OE1	2.41	0.42
7:J7:81:CYS:SG	11:J7:1001:CYC:C2C	2.95	0.42
8:M7:85:LEU:HD23	8:M7:85:LEU:HA	1.90	0.42
8:P7:10:ASN:O	8:P7:14:VAL:HG12	2.20	0.42
7:X7:81:CYS:SG	11:X7:1001:CYC:C2C	2.95	0.42
6:b7:44:MET:HE2	6:b7:44:MET:HB2	1.79	0.42
2:B8:94:MET:HG3	2:B8:111:LEU:HG	2.00	0.42
2:B8:149:GLU:HG3	2:H8:21:ASN:HD21	1.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H8:86:ARG:NH2	3:M8:67:ILE:HD12	2.34	0.42
11:I8:202:CYC:HBC2	11:I8:202:CYC:HMC1	2.01	0.42
11:P8:203:CYC:HAC2	2:Q8:84:CYS:HG	1.83	0.42
2:Q8:18:PHE:CE1	3:R8:91:ARG:CB	2.95	0.42
2:Q8:34:GLY:HA2	2:Q8:37:ALA:HB3	2.01	0.42
11:R8:201:CYC:HMC1	11:R8:201:CYC:HBC2	2.01	0.42
3:X8:104:VAL:O	3:X8:108:ARG:HB2	2.20	0.42
3:Z8:82:CYS:HG	11:Z8:201:CYC:CAC	1.96	0.42
3:M1:66:LEU:HB3	3:M1:73:ALA:HB3	2.02	0.42
3:T1:89:ILE:HD13	3:T1:89:ILE:HA	1.90	0.42
2:B2:137:LYS:HB3	2:B2:154:ILE:HG21	2.02	0.42
3:P2:38:SER:HA	3:P2:41:VAL:HB	2.02	0.42
11:R2:201:CYC:HBC2	11:R2:201:CYC:HMC1	2.00	0.42
2:S2:52:VAL:HG22	2:S2:88:ILE:HG22	2.02	0.42
3:T2:3:ASP:N	3:T2:6:THR:OG1	2.41	0.42
11:V2:202:CYC:HMC1	11:V2:202:CYC:HBC2	2.01	0.42
2:W2:137:LYS:HB3	2:W2:154:ILE:HG21	2.02	0.42
5:03:858:PHE:HD2	8:x3:115:THR:HG23	1.84	0.42
6:23:29:LYS:HE3	6:23:31:VAL:HG22	2.02	0.42
6:33:64:THR:HG22	7:i3:106:GLU:HB3	2.02	0.42
7:N3:100:ASP:OD2	7:N3:101:VAL:N	2.53	0.42
8:O3:66:THR:HB	11:P3:1001:CYC:O1A	2.19	0.42
7:P3:100:ASP:OD2	7:P3:101:VAL:N	2.52	0.42
7:R3:100:ASP:OD2	7:R3:101:VAL:N	2.52	0.42
7:T3:18:LEU:HD23	7:T3:18:LEU:HA	1.83	0.42
7:Z3:92:ILE:HD13	7:Z3:92:ILE:HA	1.92	0.42
7:b3:102:THR:O	7:b3:106:GLU:CB	2.59	0.42
7:f3:102:THR:O	7:f3:106:GLU:CB	2.59	0.42
7:o3:87:TYR:CE1	1:A5:213:GLY:HA2	2.54	0.42
7:q3:5:THR:OG1	8:r3:3:ASP:OD2	2.38	0.42
8:t3:58:LYS:O	1:A4:206:PRO:CB	2.68	0.42
7:u3:113:ARG:HH11	7:Q7:117:LYS:CE	2.21	0.42
1:A4:167:ARG:HD3	1:A4:167:ARG:HA	1.86	0.42
11:C4:201:CYC:CMB	2:H4:148:THR:CG2	2.98	0.42
2:D4:26:TYR:CE2	2:L4:4:PRO:CB	3.01	0.42
2:F4:28:TYR:OH	11:F4:201:CYC:C1B	2.68	0.42
4:N4:119:ARG:NH2	4:N4:131:SER:OG	2.53	0.42
2:O4:34:GLY:HA2	2:O4:37:ALA:HB3	2.01	0.42
2:U4:149:GLU:O	2:U4:153:TYR:N	2.49	0.42
3:G5:7:ARG:O	3:G5:11:GLN:HG2	2.20	0.42
3:I5:1:MET:HE1	4:N5:290:GLN:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I5:114:ARG:HH22	3:I5:172:GLU:HB2	1.85	0.42
3:P5:66:LEU:HB3	3:P5:73:ALA:HB3	2.02	0.42
3:R5:39:ASP:CG	11:R5:202:CYC:NA	2.78	0.42
3:T5:114:ARG:HH22	3:T5:172:GLU:HB2	1.85	0.42
3:T5:143:MET:HE1	3:T5:153:CYS:HB3	2.02	0.42
11:U5:202:CYC:NA	3:V5:39:ASP:CG	2.78	0.42
3:Z5:114:ARG:HH22	3:Z5:172:GLU:HB2	1.85	0.42
7:A7:37:LEU:O	7:A7:41:GLU:HB2	2.20	0.42
8:F7:10:ASN:O	8:F7:14:VAL:HG12	2.20	0.42
8:K7:61:LEU:HD23	8:K7:61:LEU:HA	1.87	0.42
7:L7:81:CYS:SG	11:L7:1001:CYC:C2C	2.95	0.42
8:M7:10:ASN:O	8:M7:14:VAL:HG12	2.20	0.42
7:Q7:126:VAL:HG13	11:Q7:1001:CYC:HBC3	2.01	0.42
11:W7:1001:CYC:HAD2	11:W7:1001:CYC:HHA	1.91	0.42
7:X7:72:ALA:CB	11:X7:1001:CYC:OC	2.63	0.42
8:a7:118:SER:OG	6:b7:55:LEU:HB3	2.20	0.42
2:B8:22:THR:HG22	2:H8:103:GLY:HA3	1.99	0.42
2:B8:84:CYS:HB3	11:G8:201:CYC:CAC	2.49	0.42
2:L8:23:GLU:HA	2:L8:26:TYR:CD1	2.54	0.42
3:P8:131:VAL:HA	3:P8:134:MET:HE2	2.02	0.42
11:P8:202:CYC:HMA3	2:W8:32:ARG:HH22	1.74	0.42
2:S8:25:GLN:HE22	2:Y8:30:ARG:HA	1.85	0.42
2:F1:84:CYS:HG	11:F1:201:CYC:CAC	2.09	0.42
3:G1:143:MET:HE1	3:G1:153:CYS:HB3	2.02	0.42
3:K1:114:ARG:HH22	3:K1:172:GLU:HB2	1.85	0.42
2:S1:30:ARG:HA	2:S1:30:ARG:HD2	1.95	0.42
3:V1:114:ARG:HH22	3:V1:172:GLU:HB2	1.85	0.42
2:W1:137:LYS:HB3	2:W1:154:ILE:HG21	2.00	0.42
3:X1:143:MET:O	11:X1:202:CYC:HMC1	2.20	0.42
2:S2:137:LYS:HB3	2:S2:154:ILE:HG21	2.02	0.42
3:V2:148:VAL:HG12	11:V2:202:CYC:HC	1.82	0.42
5:03:523:VAL:CA	7:C7:106:GLU:OE1	2.68	0.42
5:13:717:LYS:HZ1	6:b7:21:GLU:HG3	1.84	0.42
5:13:717:LYS:HZ2	5:13:717:LYS:HG2	1.73	0.42
5:13:777:GLU:HG3	7:V7:14:GLU:CD	2.44	0.42
7:G3:18:LEU:HA	7:G3:18:LEU:HD23	1.83	0.42
8:U3:52:VAL:O	8:U3:56:VAL:HG23	2.19	0.42
8:j3:157:CYS:O	8:j3:161:SER:OG	2.28	0.42
7:k3:102:THR:O	7:k3:106:GLU:CB	2.59	0.42
7:o3:95:GLY:HA3	7:o3:104:ILE:HD11	2.01	0.42
8:r3:52:VAL:O	8:r3:56:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:u3:95:GLY:HA3	7:u3:104:ILE:HD11	2.01	0.42
7:w3:79:ALA:CA	1:A4:222:ALA:CB	2.98	0.42
7:y3:19:SER:CB	7:Q7:6:LYS:HE2	2.50	0.42
1:A4:209:VAL:CG2	1:A4:210:PRO:HD2	2.50	0.42
3:C4:151:GLY:HA3	11:C4:201:CYC:CAD	2.38	0.42
3:E4:104:VAL:O	3:E4:108:ARG:HB2	2.20	0.42
3:G4:36:LYS:O	3:G4:156:LEU:HD11	2.20	0.42
2:J4:31:LEU:HD13	2:J4:31:LEU:HA	1.84	0.42
2:J4:34:GLY:HA2	2:J4:37:ALA:HB3	2.01	0.42
11:K4:202:CYC:HBC2	11:K4:202:CYC:HMC1	2.01	0.42
2:L4:154:ILE:O	2:L4:158:ILE:HG13	2.20	0.42
3:X4:104:VAL:O	3:X4:108:ARG:HB2	2.20	0.42
2:Y4:34:GLY:HA2	2:Y4:37:ALA:HB3	2.02	0.42
2:Y4:154:ILE:O	2:Y4:158:ILE:HG13	2.20	0.42
3:C5:7:ARG:O	3:C5:11:GLN:HG2	2.20	0.42
3:E5:57:ARG:HE	3:E5:57:ARG:HB2	1.46	0.42
11:G5:202:CYC:HAA1	11:G5:202:CYC:HHA	1.88	0.42
2:Q5:73:ASN:O	11:Q5:201:CYC:HMD3	2.13	0.42
2:B6:118:ILE:HD13	2:B6:118:ILE:HA	1.84	0.42
3:E6:57:ARG:NH1	2:F6:72:ASN:HD21	2.17	0.42
3:G6:151:GLY:O	11:G6:201:CYC:C1C	2.68	0.42
3:I6:144:ASP:HA	3:I6:145:PRO:HD3	1.93	0.42
11:M6:202:CYC:CBD	11:M6:202:CYC:CHA	2.86	0.42
7:E7:126:VAL:HG13	11:E7:1001:CYC:HBC3	2.01	0.42
7:L7:50:ILE:HG12	7:L7:136:VAL:HG12	2.02	0.42
7:X7:37:LEU:O	7:X7:41:GLU:HB2	2.20	0.42
6:b7:27:PHE:HE1	6:b7:29:LYS:HE2	1.84	0.42
1:A8:22:VAL:HB	2:F8:108:ASP:OD2	2.20	0.42
3:C8:104:VAL:O	3:C8:108:ARG:HB2	2.20	0.42
2:D8:73:ASN:OD1	2:D8:73:ASN:N	2.51	0.42
3:E8:43:ARG:HH12	3:E8:146:ALA:H	1.68	0.42
3:E8:67:ILE:HD12	11:E8:203:CYC:O2A	2.15	0.42
11:E8:202:CYC:HBC2	11:E8:202:CYC:HMC1	2.01	0.42
3:G8:36:LYS:O	3:G8:156:LEU:HD11	2.19	0.42
3:K8:131:VAL:HA	3:K8:134:MET:HE2	2.02	0.42
3:M8:7:ARG:NH1	3:T8:169:LYS:HE2	2.30	0.42
2:O8:84:CYS:HB3	11:O8:201:CYC:CAC	2.49	0.42
3:X8:36:LYS:CA	3:X8:156:LEU:HD11	2.37	0.42
2:Y8:99:LEU:CD1	2:Y8:149:GLU:OE1	2.68	0.42
1:A1:210:PRO:HA	1:A1:214:ASP:OD1	2.20	0.42
3:E1:143:MET:HE1	3:E1:153:CYS:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:24:LEU:CD1	11:I1:202:CYC:HBB1	2.45	0.42
2:L1:137:LYS:HB3	2:L1:154:ILE:HG21	2.00	0.42
3:V1:41:VAL:O	3:V1:45:THR:OG1	2.31	0.42
3:V1:66:LEU:HB3	3:V1:73:ALA:HB3	2.02	0.42
3:Z1:39:ASP:CG	11:Z1:202:CYC:NA	2.78	0.42
3:Z1:66:LEU:HB3	3:Z1:73:ALA:HB3	2.02	0.42
1:A2:104:VAL:HG21	1:A2:126:SER:HA	2.02	0.42
2:F2:137:LYS:HB3	2:F2:154:ILE:HG21	2.02	0.42
2:J2:52:VAL:HG22	2:J2:88:ILE:HG22	2.02	0.42
2:J2:137:LYS:HB3	2:J2:154:ILE:HG21	2.02	0.42
3:M2:152:ASP:OD1	3:M2:152:ASP:N	2.52	0.42
4:N2:250:ARG:HD2	4:N2:250:ARG:HA	1.93	0.42
2:Q2:22:THR:HG22	2:U2:4:PRO:HD3	2.02	0.42
2:Q2:111:LEU:HD23	11:Q2:201:CYC:CAB	2.12	0.42
2:Y2:137:LYS:HB3	2:Y2:154:ILE:HG21	2.02	0.42
6:33:4:PHE:HE1	6:33:33:TYR:HD1	1.68	0.42
8:U3:157:CYS:O	8:U3:161:SER:OG	2.28	0.42
10:V3:39:ILE:HD11	10:V3:141:LEU:HD13	2.02	0.42
11:m3:201:CYC:HBC3	11:m3:201:CYC:H2C	1.87	0.42
7:y3:18:LEU:HD23	7:y3:18:LEU:HA	1.83	0.42
7:y3:95:GLY:HA3	7:y3:104:ILE:HD11	2.01	0.42
1:A4:22:VAL:HB	2:F4:108:ASP:OD2	2.20	0.42
2:B4:84:CYS:HB3	11:G4:201:CYC:CAC	2.49	0.42
3:E4:131:VAL:HA	3:E4:134:MET:HE2	2.02	0.42
2:F4:34:GLY:HA2	2:F4:37:ALA:HB3	2.01	0.42
2:F4:98:CYS:SG	2:F4:104:THR:HA	2.60	0.42
2:J4:154:ILE:O	2:J4:158:ILE:HG13	2.20	0.42
2:L4:36:PHE:CD2	2:L4:145:ASP:HB2	2.55	0.42
3:M4:104:VAL:O	3:M4:108:ARG:HB2	2.20	0.42
2:Q4:40:ALA:HB2	2:Q4:145:ASP:CG	2.45	0.42
2:Q4:98:CYS:SG	2:Q4:104:THR:HA	2.60	0.42
2:U4:98:CYS:SG	2:U4:104:THR:HA	2.60	0.42
2:U4:154:ILE:O	2:U4:158:ILE:HG13	2.20	0.42
3:X4:131:VAL:HA	3:X4:134:MET:HE2	2.02	0.42
11:I5:202:CYC:HHB	11:I5:202:CYC:HMB3	1.79	0.42
3:K5:143:MET:HE1	3:K5:153:CYS:HB3	2.02	0.42
3:P5:114:ARG:HH22	3:P5:172:GLU:HB2	1.85	0.42
2:B6:137:LYS:HB3	2:B6:154:ILE:HG21	2.02	0.42
2:D6:28:TYR:HH	3:E6:35:THR:HG1	1.68	0.42
3:K6:3:ASP:N	3:K6:6:THR:OG1	2.41	0.42
4:N6:87:TYR:O	3:P6:108:ARG:NH1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P6:110:LEU:HD22	3:P6:170:ALA:HB3	2.02	0.42
3:T6:65:GLN:H	3:T6:65:GLN:HG3	1.48	0.42
2:U6:137:LYS:HB3	2:U6:154:ILE:HG21	2.02	0.42
3:X6:57:ARG:NH1	2:Y6:79:ARG:NH2	2.53	0.42
8:I7:53:LYS:HB3	8:I7:53:LYS:HE2	1.88	0.42
11:J7:1001:CYC:HAC1	11:J7:1001:CYC:HHD	1.71	0.42
11:T7:1001:CYC:HMA2	6:U7:37:PHE:HD2	1.84	0.42
7:Z7:126:VAL:HG13	11:Z7:1001:CYC:HBC3	2.01	0.42
3:C8:131:VAL:HA	3:C8:134:MET:HE2	2.02	0.42
2:D8:36:PHE:CG	2:D8:145:ASP:HB2	2.55	0.42
3:E8:104:VAL:O	3:E8:108:ARG:HB2	2.20	0.42
3:I8:104:VAL:O	3:I8:108:ARG:HB2	2.20	0.42
2:J8:24:LEU:CD1	3:K8:38:SER:O	2.68	0.42
2:J8:154:ILE:O	2:J8:158:ILE:HG13	2.20	0.42
3:K8:104:VAL:O	3:K8:108:ARG:HB2	2.20	0.42
2:L8:36:PHE:CD2	2:L8:145:ASP:HB2	2.55	0.42
3:M8:38:SER:O	3:M8:41:VAL:HB	2.20	0.42
3:P8:104:VAL:O	3:P8:108:ARG:HB2	2.20	0.42
3:R8:104:VAL:O	3:R8:108:ARG:HB2	2.20	0.42
3:T8:131:VAL:HA	3:T8:134:MET:HE2	2.02	0.42
2:W8:34:GLY:HA2	2:W8:37:ALA:HB3	2.01	0.42
2:W8:154:ILE:O	2:W8:158:ILE:HG13	2.20	0.42
3:X8:43:ARG:O	3:X8:46:ASN:HB2	2.20	0.42
2:Y8:86:ARG:CZ	11:Y8:201:CYC:O2A	2.61	0.42
3:Z8:20:SER:OG	3:Z8:21:SER:N	2.51	0.42
3:Z8:36:LYS:HB3	3:Z8:156:LEU:HD12	2.02	0.42
3:C1:66:LEU:HB3	3:C1:73:ALA:HB3	2.02	0.41
11:D1:201:CYC:HMC1	3:E1:143:MET:O	2.20	0.41
2:L1:73:ASN:O	11:L1:201:CYC:HMD3	2.13	0.41
2:Q1:73:ASN:O	11:Q1:201:CYC:HMD3	2.13	0.41
2:B2:52:VAL:HG22	2:B2:88:ILE:HG22	2.02	0.41
2:B2:146:ALA:O	2:B2:150:THR:OG1	2.32	0.41
2:F2:52:VAL:HG22	2:F2:88:ILE:HG22	2.02	0.41
3:P2:110:LEU:HD22	3:P2:170:ALA:HB3	2.02	0.41
5:03:514:GLU:HG3	5:03:516:PRO:HG3	2.02	0.41
5:03:777:GLU:HG3	7:O7:14:GLU:CG	2.48	0.41
5:13:237:ARG:NH2	5:13:403:GLU:OE2	2.53	0.41
7:T3:76:GLU:O	7:T3:80:THR:OG1	2.34	0.41
10:V3:97:LEU:HD22	8:W3:19:LEU:HD13	2.02	0.41
10:m3:36:ARG:NH1	10:m3:96:ILE:O	2.52	0.41
10:m3:43:LEU:HD22	10:m3:89:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q3:69:GLY:CA	7:V7:63:PRO:HD2	2.42	0.41
8:t3:52:VAL:O	8:t3:56:VAL:HG23	2.19	0.41
7:u3:25:ARG:HG3	7:O7:25:ARG:HD2	2.01	0.41
7:w3:91:LEU:HD11	11:w3:1001:CYC:HBB1	2.02	0.41
3:E4:153:CYS:SG	11:E4:202:CYC:C3C	3.06	0.41
3:I4:24:LEU:HD23	3:I4:24:LEU:HA	1.81	0.41
3:K4:22:ASP:HA	3:K4:25:GLU:HG3	2.02	0.41
2:L4:98:CYS:SG	2:L4:104:THR:HA	2.60	0.41
4:N4:129:ILE:HA	4:N4:132:TYR:HD1	1.84	0.41
2:Q4:34:GLY:HA2	2:Q4:37:ALA:HB3	2.01	0.41
2:Q4:103:GLY:CA	2:U4:22:THR:CG2	2.97	0.41
2:W4:86:ARG:CZ	11:W4:201:CYC:O2A	2.61	0.41
2:W4:98:CYS:SG	2:W4:104:THR:HA	2.60	0.41
1:A5:53:ILE:O	1:A5:110:ARG:NH1	2.53	0.41
1:A5:163:SER:HA	1:A5:170:GLY:HA3	2.01	0.41
11:C5:201:CYC:HAB2	2:H5:149:GLU:CD	2.39	0.41
3:G5:39:ASP:CG	11:G5:202:CYC:NA	2.78	0.41
11:G5:202:CYC:HAC1	11:G5:202:CYC:HHD	1.82	0.41
3:I5:66:LEU:HB3	3:I5:73:ALA:HB3	2.02	0.41
3:K5:66:LEU:HB3	3:K5:73:ALA:HB3	2.02	0.41
3:M5:15:ARG:HH21	3:T5:132:ARG:HD3	1.85	0.41
3:M5:66:LEU:HB3	3:M5:73:ALA:HB3	2.02	0.41
3:M5:143:MET:O	11:M5:202:CYC:HMC1	2.20	0.41
2:Q5:24:LEU:HD12	11:R5:202:CYC:CBB	2.49	0.41
3:R5:66:LEU:HB3	3:R5:73:ALA:HB3	2.02	0.41
3:V5:114:ARG:HH22	3:V5:172:GLU:HB2	1.85	0.41
2:H6:52:VAL:HG22	2:H6:88:ILE:HG22	2.02	0.41
3:T6:3:ASP:N	3:T6:6:THR:OG1	2.42	0.41
7:C7:37:LEU:O	7:C7:41:GLU:HB2	2.20	0.41
8:D7:126:THR:HG1	11:D7:1001:CYC:HMC1	1.82	0.41
7:E7:37:LEU:O	7:E7:41:GLU:HB2	2.20	0.41
7:J7:50:ILE:HG12	7:J7:136:VAL:HG12	2.02	0.41
1:A8:203:PHE:CD2	1:A8:203:PHE:N	2.75	0.41
3:C8:22:ASP:HA	3:C8:25:GLU:HG3	2.02	0.41
2:D8:154:ILE:O	2:D8:158:ILE:HG13	2.20	0.41
3:E8:156:LEU:HD13	11:E8:202:CYC:HBC1	2.00	0.41
11:E8:203:CYC:CAC	2:F8:84:CYS:HB3	2.49	0.41
2:H8:34:GLY:HA2	2:H8:37:ALA:HB3	2.02	0.41
4:N8:237:GLN:HA	4:N8:290:GLN:HB3	2.00	0.41
2:O8:21:ASN:CG	2:W8:149:GLU:HG3	2.42	0.41
2:Q8:98:CYS:SG	2:Q8:104:THR:HA	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S8:84:CYS:HB3	11:S8:201:CYC:CAC	2.49	0.41
2:S8:154:ILE:O	2:S8:158:ILE:HG13	2.20	0.41
3:T8:37:ARG:HA	3:T8:156:LEU:HD11	2.02	0.41
1:A1:203:PHE:H	7:q3:76:GLU:CG	2.31	0.41
3:C1:143:MET:O	11:C1:201:CYC:HMC1	2.20	0.41
3:C1:143:MET:HE1	3:C1:153:CYS:HB3	2.02	0.41
3:I1:143:MET:O	11:I1:202:CYC:HMC1	2.20	0.41
11:M1:202:CYC:HMB1	11:M1:202:CYC:HHB	1.83	0.41
4:N1:265:VAL:HA	4:N1:268:LEU:HD12	2.02	0.41
2:S1:2:LYS:H	2:S1:105:GLY:HA3	1.85	0.41
2:U1:5:LEU:HD23	3:V1:98:PHE:CZ	2.56	0.41
3:V1:143:MET:HE1	3:V1:153:CYS:HB3	2.02	0.41
2:O2:52:VAL:HG22	2:O2:88:ILE:HG22	2.02	0.41
3:R2:35:THR:HG23	11:R2:201:CYC:O2D	2.20	0.41
3:T2:37:ARG:HG3	3:T2:156:LEU:HD22	2.02	0.41
2:U2:52:VAL:HG22	2:U2:88:ILE:HG22	2.02	0.41
3:X2:65:GLN:H	3:X2:65:GLN:HG3	1.47	0.41
5:03:603:ARG:HB2	5:03:650:TYR:HB2	2.01	0.41
5:13:717:LYS:O	5:13:719:THR:N	2.53	0.41
5:13:761:ASN:HD21	8:W7:115:THR:CB	2.32	0.41
5:13:768:GLU:CD	6:b7:29:LYS:HD2	2.45	0.41
7:G3:91:LEU:HD11	11:G3:1001:CYC:HBB1	2.02	0.41
7:K3:91:LEU:HD11	11:K3:1001:CYC:HBB1	2.02	0.41
7:N3:95:GLY:HA3	7:N3:104:ILE:HD11	2.01	0.41
9:Q3:168:ASP:OD1	9:Q3:168:ASP:N	2.54	0.41
11:W3:1001:CYC:HAC1	11:W3:1001:CYC:HHD	1.86	0.41
7:X3:52:LYS:HG3	1:A6:221:MET:HE3	2.02	0.41
3:C4:20:SER:OG	3:C4:21:SER:N	2.51	0.41
3:I4:131:VAL:HA	3:I4:134:MET:HE2	2.02	0.41
3:I4:139:VAL:O	3:I4:142:VAL:CA	2.68	0.41
2:L4:150:THR:HA	2:L4:153:TYR:HB2	2.02	0.41
2:S4:17:ARG:CZ	2:S4:17:ARG:CB	2.98	0.41
2:S4:98:CYS:SG	2:S4:104:THR:HA	2.60	0.41
2:U4:142:LEU:O	2:U4:147:ALA:HB2	2.20	0.41
2:W4:73:ASN:N	2:W4:73:ASN:OD1	2.51	0.41
11:X4:202:CYC:HBC2	11:X4:202:CYC:HMC1	2.01	0.41
2:F5:30:ARG:HA	2:F5:30:ARG:HD2	1.96	0.41
3:I5:108:ARG:HA	4:N5:227:GLY:HA2	2.01	0.41
4:N5:161:THR:HG23	11:R5:201:CYC:HAB2	2.03	0.41
3:R5:143:MET:O	11:R5:202:CYC:HMC1	2.20	0.41
3:Z5:7:ARG:O	3:Z5:11:GLN:HG2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P6:91:ARG:HE	3:P6:91:ARG:HB3	1.61	0.41
8:M7:114:GLU:OE2	6:N7:52:LYS:HA	2.20	0.41
7:V7:37:LEU:O	7:V7:41:GLU:HB2	2.20	0.41
8:W7:10:ASN:O	8:W7:14:VAL:HG12	2.20	0.41
8:Y7:10:ASN:O	8:Y7:14:VAL:HG12	2.20	0.41
3:C8:143:MET:O	3:C8:143:MET:SD	2.79	0.41
2:F8:15:GLN:HE22	2:J8:2:LYS:HD3	1.84	0.41
3:K8:36:LYS:HB3	3:K8:156:LEU:HD12	2.01	0.41
3:K8:82:CYS:HG	11:K8:201:CYC:CAC	2.02	0.41
2:L8:154:ILE:O	2:L8:158:ILE:HG13	2.20	0.41
4:N8:43:LEU:HB3	4:N8:46:ASP:HB2	2.02	0.41
3:Z8:104:VAL:O	3:Z8:108:ARG:HB2	2.20	0.41
2:B1:84:CYS:HG	11:B1:201:CYC:CAC	2.09	0.41
2:H1:73:ASN:O	11:H1:201:CYC:HMD3	2.13	0.41
11:I1:202:CYC:HHA	11:I1:202:CYC:HAA1	1.88	0.41
3:P1:143:MET:O	11:P1:202:CYC:HMC1	2.20	0.41
3:T1:7:ARG:O	3:T1:11:GLN:HG2	2.20	0.41
3:T1:114:ARG:HH22	3:T1:172:GLU:HB2	1.85	0.41
3:X1:143:MET:HE1	3:X1:153:CYS:HB3	2.02	0.41
2:D2:118:ILE:HD13	2:D2:118:ILE:HA	1.84	0.41
3:G2:57:ARG:C	3:G2:57:ARG:CD	2.93	0.41
2:L2:52:VAL:HG22	2:L2:88:ILE:HG22	2.02	0.41
11:T2:202:CYC:HMC1	11:T2:202:CYC:HBC2	2.00	0.41
2:U2:137:LYS:HB3	2:U2:154:ILE:HG21	2.02	0.41
2:W2:52:VAL:HG22	2:W2:88:ILE:HG22	2.02	0.41
2:Y2:52:VAL:HG22	2:Y2:88:ILE:HG22	2.02	0.41
5:03:477:ARG:NE	8:L3:107:ARG:HH11	2.18	0.41
5:13:2:THR:HB	5:13:4:LYS:HE3	2.01	0.41
5:13:152:MET:HE2	5:13:152:MET:HB3	1.89	0.41
5:13:443:TYR:CZ	11:13:902:CYC:CBA	2.86	0.41
5:13:710:ARG:HH21	8:r3:76:ARG:HD2	1.84	0.41
11:13:902:CYC:HAC1	11:13:902:CYC:HHD	1.86	0.41
7:I3:3:ILE:CD1	7:A7:25:ARG:NH1	2.83	0.41
8:M3:3:ASP:OD2	8:M3:3:ASP:N	2.37	0.41
11:O3:1001:CYC:HAC1	11:O3:1001:CYC:HHD	1.86	0.41
10:V3:61:ILE:HD13	10:V3:61:ILE:HA	1.92	0.41
7:Z3:105:GLU:OE1	7:Z3:155:TYR:OH	2.34	0.41
7:d3:100:ASP:OD2	7:d3:101:VAL:N	2.52	0.41
7:d3:105:GLU:OE1	7:d3:155:TYR:OH	2.34	0.41
9:g3:35:ASN:O	9:g3:39:THR:HG23	2.21	0.41
7:i3:18:LEU:HA	7:i3:18:LEU:HD23	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:j3:52:VAL:O	8:j3:56:VAL:HG23	2.19	0.41
7:k3:95:GLY:HA3	7:k3:104:ILE:HD11	2.01	0.41
8:p3:52:VAL:O	8:p3:56:VAL:HG23	2.19	0.41
7:q3:51:ILE:HD13	1:A8:218:PHE:CE1	2.53	0.41
7:q3:95:GLY:HA3	7:q3:104:ILE:HD11	2.01	0.41
7:u3:91:LEU:HD11	11:u3:1001:CYC:HBB1	2.02	0.41
7:w3:79:ALA:N	1:A4:222:ALA:CB	2.84	0.41
7:w3:95:GLY:HA3	7:w3:104:ILE:HD11	2.01	0.41
1:A4:123:ILE:HG12	3:C4:116:THR:HG23	2.01	0.41
1:A4:203:PHE:HZ	1:A5:219:LEU:HB2	1.82	0.41
3:C4:22:ASP:HA	3:C4:25:GLU:HG3	2.02	0.41
3:C4:24:LEU:HD23	3:C4:24:LEU:HA	1.81	0.41
3:C4:38:SER:O	3:C4:41:VAL:HB	2.20	0.41
2:D4:84:CYS:HB3	11:D4:201:CYC:CAC	2.49	0.41
2:D4:154:ILE:O	2:D4:158:ILE:HG13	2.20	0.41
3:G4:38:SER:O	3:G4:41:VAL:HB	2.21	0.41
2:J4:24:LEU:CD1	3:K4:38:SER:O	2.68	0.41
3:V4:22:ASP:HA	3:V4:25:GLU:HG3	2.02	0.41
3:V4:76:ASN:ND2	2:W4:111:LEU:O	2.51	0.41
3:X4:43:ARG:O	3:X4:46:ASN:HB2	2.20	0.41
1:A5:24:GLY:O	2:J5:15:GLN:NE2	2.46	0.41
4:N5:69:ARG:HG3	4:N5:133:ILE:HD11	2.01	0.41
3:X5:114:ARG:HH22	3:X5:172:GLU:HB2	1.85	0.41
11:X5:202:CYC:HMB1	11:X5:202:CYC:HHB	1.83	0.41
3:Z5:143:MET:HE1	3:Z5:153:CYS:HB3	2.02	0.41
11:Z5:201:CYC:HAA2	11:Z5:201:CYC:HHA	1.94	0.41
11:A6:301:CYC:HBD1	3:G6:120:LEU:HD22	2.03	0.41
11:E6:202:CYC:HBC2	11:E6:202:CYC:HMC1	2.01	0.41
2:L6:6:THR:HG23	3:M6:1:MET:SD	2.60	0.41
4:a6:241:VAL:HG22	4:a6:285:ILE:HG12	2.03	0.41
7:C7:50:ILE:HG12	7:C7:136:VAL:HG12	2.02	0.41
7:E7:50:ILE:HG12	7:E7:136:VAL:HG12	2.02	0.41
7:S7:37:LEU:O	7:S7:41:GLU:HB2	2.20	0.41
8:T7:135:GLU:H	8:T7:135:GLU:HG2	1.69	0.41
7:X7:62:ARG:NH1	7:X7:124:ASP:OD1	2.48	0.41
1:A8:60:CYS:SG	1:A8:61:ASP:N	2.93	0.41
1:A8:146:GLU:HG2	1:A8:160:ARG:HH22	1.85	0.41
2:F8:98:CYS:SG	2:F8:104:THR:HA	2.60	0.41
3:G8:38:SER:O	3:G8:41:VAL:HB	2.21	0.41
3:I8:139:VAL:O	3:I8:142:VAL:CA	2.68	0.41
3:M8:36:LYS:HB3	3:M8:156:LEU:HD12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N8:142:PHE:HB2	4:N8:146:ILE:HB	2.02	0.41
2:O8:140:HIS:CE1	2:O8:142:LEU:HB2	2.55	0.41
2:U8:84:CYS:HB3	11:U8:201:CYC:CAC	2.49	0.41
3:V8:22:ASP:HA	3:V8:25:GLU:HG3	2.03	0.41
2:Y8:36:PHE:CG	2:Y8:145:ASP:CB	3.03	0.41
2:J1:24:LEU:HD13	11:K1:202:CYC:HBB2	2.01	0.41
11:M1:202:CYC:HHD	11:M1:202:CYC:HAC1	1.82	0.41
3:V1:7:ARG:O	3:V1:11:GLN:HG2	2.20	0.41
2:W1:130:VAL:HG13	2:W1:158:ILE:HG23	2.03	0.41
1:A2:199:ALA:CB	7:N3:78:THR:HB	2.50	0.41
11:A2:301:CYC:HBD1	3:G2:120:LEU:HD22	2.03	0.41
3:I2:41:VAL:O	3:I2:45:THR:HB	2.20	0.41
2:L2:118:ILE:HD13	2:L2:118:ILE:HA	1.84	0.41
3:M2:3:ASP:H	3:M2:6:THR:HG1	1.65	0.41
3:P2:36:LYS:O	3:P2:37:ARG:C	2.64	0.41
5:03:2:THR:HB	5:03:4:LYS:HE3	2.02	0.41
5:03:803:ARG:NH1	5:03:804:ALA:O	2.43	0.41
11:13:902:CYC:HBC2	8:Y3:60:LEU:CD1	2.49	0.41
11:13:902:CYC:HMD2	8:Y3:77:ARG:O	2.21	0.41
8:M3:79:ALA:HB2	7:N3:111:GLY:HA3	2.01	0.41
7:T3:91:LEU:HD11	11:T3:1001:CYC:HBB1	2.02	0.41
10:V3:39:ILE:HD12	10:V3:145:GLU:HB3	2.03	0.41
7:i3:105:GLU:OE1	7:i3:155:TYR:OH	2.34	0.41
7:k3:91:LEU:HD11	11:k3:1001:CYC:HBB1	2.02	0.41
7:q3:12:ASP:HA	8:r3:90:ARG:HH12	1.84	0.41
8:v3:52:VAL:O	8:v3:56:VAL:HG23	2.19	0.41
7:w3:102:THR:O	7:w3:106:GLU:CB	2.59	0.41
1:A4:214:ASP:CG	1:A4:215:PRO:HD2	2.39	0.41
3:C4:143:MET:HA	3:C4:143:MET:CE	2.43	0.41
3:P4:151:GLY:CA	11:P4:202:CYC:HMD2	2.46	0.41
2:U4:149:GLU:CD	2:U4:153:TYR:CE2	2.89	0.41
2:Y4:98:CYS:SG	2:Y4:104:THR:HA	2.60	0.41
3:G5:114:ARG:HH22	3:G5:172:GLU:HB2	1.85	0.41
3:M5:143:MET:HE1	3:M5:153:CYS:HB3	2.02	0.41
2:O5:130:VAL:HG13	2:O5:158:ILE:HG23	2.03	0.41
3:C6:36:LYS:O	3:C6:37:ARG:C	2.63	0.41
2:D6:22:THR:HG22	2:L6:4:PRO:HD3	2.01	0.41
3:G6:3:ASP:N	3:G6:6:THR:OG1	2.41	0.41
2:L6:52:VAL:HG22	2:L6:88:ILE:HG22	2.02	0.41
3:M6:53:THR:O	3:M6:57:ARG:HB2	2.20	0.41
3:P6:38:SER:HA	3:P6:41:VAL:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T6:39:ASP:O	3:T6:42:SER:HB3	2.21	0.41
2:Y6:137:LYS:HB3	2:Y6:154:ILE:HG21	2.02	0.41
7:C7:92:ILE:HD13	7:C7:92:ILE:HA	1.93	0.41
7:J7:9:VAL:HG13	8:K7:1:MET:HG2	2.02	0.41
7:O7:62:ARG:NH1	7:O7:124:ASP:OD1	2.47	0.41
2:B8:98:CYS:SG	2:B8:104:THR:HA	2.60	0.41
2:H8:98:CYS:SG	2:H8:104:THR:HA	2.60	0.41
3:I8:38:SER:O	3:I8:41:VAL:HB	2.21	0.41
2:L8:150:THR:HA	2:L8:153:TYR:HB2	2.02	0.41
3:M8:123:PRO:CB	3:R8:65:GLN:HE22	2.26	0.41
2:Q8:22:THR:CG2	2:U8:103:GLY:CA	2.99	0.41
2:S8:148:THR:HG21	11:Z8:202:CYC:HAC2	1.94	0.41
3:Z8:131:VAL:HA	3:Z8:134:MET:HE2	2.02	0.41
3:I1:66:LEU:HB3	3:I1:73:ALA:HB3	2.02	0.41
3:K1:39:ASP:CG	11:K1:202:CYC:NA	2.78	0.41
3:M1:143:MET:O	11:M1:202:CYC:HMC1	2.20	0.41
4:N1:226:LEU:HD23	4:N1:226:LEU:HA	1.88	0.41
2:O1:24:LEU:HD13	11:P1:202:CYC:CBB	2.44	0.41
3:P1:114:ARG:HH22	3:P1:172:GLU:HB2	1.85	0.41
3:T1:39:ASP:CG	11:T1:201:CYC:NA	2.78	0.41
2:U1:130:VAL:HG13	2:U1:158:ILE:HG23	2.03	0.41
11:U1:202:CYC:HHD	11:U1:202:CYC:HAC1	1.82	0.41
3:X1:39:ASP:CG	11:X1:202:CYC:NA	2.78	0.41
2:H2:52:VAL:HG22	2:H2:88:ILE:HG22	2.02	0.41
3:I2:120:LEU:HD22	11:I2:201:CYC:HBD1	2.03	0.41
3:P2:27:LEU:HD23	3:P2:27:LEU:HA	1.91	0.41
3:Z2:120:LEU:HD22	11:Z2:202:CYC:HBD1	2.03	0.41
5:13:21:PRO:HA	5:13:43:LEU:HD21	2.03	0.41
5:13:477:ARG:HE	8:a3:107:ARG:HH11	1.68	0.41
5:13:482:HIS:HB2	5:13:489:ASN:OD1	2.19	0.41
5:13:724:LYS:HD3	5:13:724:LYS:HA	1.84	0.41
5:13:797:THR:HG23	5:13:801:LEU:HD12	2.02	0.41
7:G3:100:ASP:OD2	7:G3:101:VAL:N	2.52	0.41
8:H3:52:VAL:O	8:H3:56:VAL:HG23	2.19	0.41
7:R3:91:LEU:HD11	11:R3:1001:CYC:HBB1	2.02	0.41
8:e3:87:TYR:HE1	8:e3:90:ARG:HH21	1.69	0.41
7:f3:26:ILE:HG22	9:g3:38:ILE:HD11	2.03	0.41
8:n3:3:ASP:OD2	8:n3:3:ASP:N	2.37	0.41
8:r3:87:TYR:HE1	8:r3:90:ARG:HH21	1.69	0.41
11:r3:1001:CYC:HHA	11:r3:1001:CYC:HAA2	1.92	0.41
7:w3:100:ASP:OD2	7:w3:101:VAL:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:203:PHE:CD1	1:A5:215:PRO:HG2	2.40	0.41
2:H4:154:ILE:O	2:H4:158:ILE:HG13	2.20	0.41
3:M4:36:LYS:HB3	3:M4:156:LEU:HD12	2.01	0.41
3:R4:37:ARG:NH1	3:R4:159:GLU:OE1	2.39	0.41
3:R4:104:VAL:O	3:R4:108:ARG:HB2	2.20	0.41
2:U4:31:LEU:HD13	2:U4:31:LEU:HA	1.84	0.41
3:V4:38:SER:O	3:V4:41:VAL:HB	2.21	0.41
3:V4:131:VAL:HA	3:V4:134:MET:HE2	2.02	0.41
2:W4:154:ILE:O	2:W4:158:ILE:HG13	2.20	0.41
3:Z4:36:LYS:HB3	3:Z4:156:LEU:HD12	2.02	0.41
11:D5:201:CYC:HMC1	3:E5:143:MET:O	2.20	0.41
2:F5:130:VAL:HG13	2:F5:158:ILE:HG23	2.03	0.41
3:I5:143:MET:O	11:I5:202:CYC:HMC1	2.20	0.41
2:J5:130:VAL:HG13	2:J5:158:ILE:HG23	2.03	0.41
3:K5:143:MET:O	11:K5:202:CYC:HMC1	2.20	0.41
3:M5:114:ARG:HH22	3:M5:172:GLU:HB2	1.85	0.41
2:U5:5:LEU:HD23	3:V5:98:PHE:CZ	2.56	0.41
2:U5:130:VAL:HG13	2:U5:158:ILE:HG23	2.03	0.41
3:V5:66:LEU:HB3	3:V5:73:ALA:HB3	2.02	0.41
3:X5:143:MET:HE1	3:X5:153:CYS:HB3	2.02	0.41
3:M6:37:ARG:HA	3:M6:156:LEU:HD11	2.01	0.41
3:M6:91:ARG:HE	3:M6:91:ARG:HB3	1.61	0.41
2:Q6:22:THR:HG22	2:U6:4:PRO:HD3	2.02	0.41
7:E7:81:CYS:SG	11:E7:1001:CYC:C2C	2.95	0.41
11:F7:1001:CYC:HBB2	6:G7:41:GLN:OE1	2.20	0.41
7:J7:37:LEU:O	7:J7:41:GLU:HB2	2.20	0.41
1:A8:167:ARG:NH2	3:E8:120:LEU:O	2.45	0.41
2:D8:19:LEU:HD23	3:E8:95:TYR:CD1	2.53	0.41
2:H8:18:PHE:CE1	3:I8:91:ARG:HG3	2.56	0.41
2:J8:34:GLY:HA2	2:J8:37:ALA:HB3	2.01	0.41
2:L8:98:CYS:SG	2:L8:104:THR:HA	2.60	0.41
11:O8:201:CYC:HMA1	3:T8:79:MET:HG2	2.03	0.41
3:T8:104:VAL:O	3:T8:108:ARG:HB2	2.20	0.41
2:W8:150:THR:HG22	2:W8:154:ILE:CG1	2.50	0.41
3:X8:143:MET:O	3:X8:143:MET:SD	2.79	0.41
2:Y8:31:LEU:HD13	2:Y8:31:LEU:HA	1.84	0.41
1:A1:22:VAL:HG11	2:F1:108:ASP:O	2.21	0.41
3:E1:114:ARG:HH22	3:E1:172:GLU:HB2	1.85	0.41
2:F1:5:LEU:HD21	2:F1:27:LEU:HD13	2.03	0.41
3:G1:114:ARG:HH22	3:G1:172:GLU:HB2	1.85	0.41
3:I1:1:MET:HE1	4:N1:290:GLN:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I1:143:MET:HE1	3:I1:153:CYS:HB3	2.02	0.41
3:M1:114:ARG:HH22	3:M1:172:GLU:HB2	1.85	0.41
11:T1:201:CYC:HMB1	11:T1:201:CYC:HHB	1.83	0.41
11:U1:202:CYC:NA	3:V1:39:ASP:CG	2.78	0.41
2:W1:5:LEU:HD21	2:W1:27:LEU:HD13	2.03	0.41
3:X1:7:ARG:O	3:X1:11:GLN:HG2	2.20	0.41
2:D2:52:VAL:HG22	2:D2:88:ILE:HG22	2.02	0.41
3:G2:153:CYS:O	3:G2:153:CYS:SG	2.78	0.41
2:H2:137:LYS:HB3	2:H2:154:ILE:HG21	2.02	0.41
4:N2:205:SER:O	4:N2:208:ASN:N	2.53	0.41
11:N2:301:CYC:HBD1	3:R2:120:LEU:HD22	2.03	0.41
3:P2:65:GLN:H	3:P2:65:GLN:HG3	1.47	0.41
2:Q2:137:LYS:HB3	2:Q2:154:ILE:HG21	2.02	0.41
5:03:142:PRO:O	5:03:146:THR:OG1	2.37	0.41
5:03:653:PRO:O	5:03:657:SER:HB2	2.21	0.41
10:V3:85:TYR:HE2	10:V3:133:LEU:HB2	1.86	0.41
8:Y3:87:TYR:HE1	8:Y3:90:ARG:HH21	1.69	0.41
8:a3:87:TYR:HE1	8:a3:90:ARG:HH21	1.69	0.41
8:n3:3:ASP:OD2	8:n3:6:THR:OG1	2.30	0.41
8:n3:83:ARG:CZ	11:n3:1001:CYC:O2A	2.61	0.41
7:q3:64:ASP:OD2	7:V7:70:GLY:HA2	2.21	0.41
8:r3:7:SER:O	8:r3:11:SER:OG	2.39	0.41
7:s3:91:LEU:HD11	11:s3:1001:CYC:HBB1	2.02	0.41
7:w3:77:MET:SD	1:A5:201:ARG:CB	2.92	0.41
7:y3:100:ASP:OD2	7:y3:101:VAL:N	2.53	0.41
3:C4:143:MET:O	3:C4:143:MET:SD	2.79	0.41
2:D4:22:THR:CG2	2:L4:103:GLY:HA2	2.50	0.41
2:F4:73:ASN:OD1	2:F4:73:ASN:N	2.51	0.41
2:H4:19:LEU:HD21	3:I4:95:TYR:HD1	1.85	0.41
3:I4:74:TYR:OH	2:J4:93:ARG:NH1	2.54	0.41
3:K4:104:VAL:O	3:K4:108:ARG:HB2	2.20	0.41
4:N4:142:PHE:HB2	4:N4:146:ILE:HB	2.03	0.41
2:Q4:22:THR:HG23	2:U4:103:GLY:CA	2.51	0.41
3:T4:143:MET:O	3:T4:143:MET:SD	2.79	0.41
3:C5:39:ASP:CG	11:C5:201:CYC:NA	2.78	0.41
3:C5:66:LEU:HB3	3:C5:73:ALA:HB3	2.02	0.41
3:G5:143:MET:O	11:G5:202:CYC:HMC1	2.20	0.41
2:L5:97:TYR:OH	3:M5:17:GLU:O	2.38	0.41
4:N5:245:ALA:HA	4:N5:257:SER:HB3	2.02	0.41
3:P5:7:ARG:O	3:P5:11:GLN:HG2	2.20	0.41
3:Z5:39:ASP:CG	11:Z5:202:CYC:NA	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Z5:202:CYC:HMB1	11:Z5:202:CYC:HHB	1.83	0.41
3:E6:120:LEU:HD22	11:E6:201:CYC:HBD1	2.03	0.41
3:G6:153:CYS:O	3:G6:153:CYS:SG	2.78	0.41
2:H6:146:ALA:O	2:H6:150:THR:OG1	2.32	0.41
3:R6:35:THR:HG23	11:R6:201:CYC:O2D	2.20	0.41
2:S6:52:VAL:HG22	2:S6:88:ILE:HG22	2.02	0.41
7:L7:94:TYR:OH	8:M7:17:LYS:O	2.37	0.41
7:V7:50:ILE:HG12	7:V7:136:VAL:HG12	2.02	0.41
2:B8:150:THR:CA	2:B8:153:TYR:HB2	2.48	0.41
3:C8:35:THR:CG2	11:C8:201:CYC:O2D	2.69	0.41
3:C8:37:ARG:NH1	3:C8:159:GLU:OE1	2.39	0.41
2:D8:31:LEU:HD13	2:D8:31:LEU:HA	1.84	0.41
3:G8:22:ASP:HA	3:G8:25:GLU:HG3	2.03	0.41
3:I8:142:VAL:O	11:I8:202:CYC:CBC	2.59	0.41
3:I8:144:ASP:OD1	3:I8:145:PRO:CD	2.61	0.41
2:J8:2:LYS:HE3	2:J8:2:LYS:HB3	1.93	0.41
2:S8:98:CYS:SG	2:S8:104:THR:HA	2.60	0.41
2:U8:98:CYS:SG	2:U8:104:THR:HA	2.60	0.41
3:C1:39:ASP:CG	11:C1:201:CYC:NA	2.78	0.41
11:I1:202:CYC:HHD	11:I1:202:CYC:HAC1	1.82	0.41
3:M1:143:MET:HE1	3:M1:153:CYS:HB3	2.02	0.41
3:P1:39:ASP:CG	11:P1:202:CYC:NA	2.78	0.41
3:P1:143:MET:HE1	3:P1:153:CYS:HB3	2.02	0.41
11:P1:201:CYC:HAA2	11:P1:201:CYC:HHA	1.94	0.41
3:C2:36:LYS:O	3:C2:37:ARG:C	2.63	0.41
2:D2:137:LYS:HB3	2:D2:154:ILE:HG21	2.02	0.41
3:M2:153:CYS:O	3:M2:153:CYS:SG	2.79	0.41
4:N2:161:THR:HG23	11:N2:301:CYC:HAB2	2.01	0.41
5:03:557:ILE:HG23	11:B7:1001:CYC:HMA1	2.00	0.41
5:13:512:ASN:HA	6:N7:23:GLN:OE1	2.20	0.41
8:H3:7:SER:O	8:H3:11:SER:OG	2.39	0.41
8:M3:7:SER:O	8:M3:11:SER:OG	2.39	0.41
8:W3:87:TYR:HE1	8:W3:90:ARG:HH21	1.69	0.41
7:X3:18:LEU:HA	7:X3:18:LEU:HD23	1.83	0.41
7:X3:100:ASP:OD2	7:X3:101:VAL:N	2.52	0.41
9:g3:169:LEU:HD23	9:g3:169:LEU:HA	1.90	0.41
7:q3:51:ILE:HG22	1:A8:221:MET:HE1	2.03	0.41
7:q3:63:PRO:HG2	7:V7:68:PRO:O	2.21	0.41
7:q3:102:THR:O	7:q3:106:GLU:CB	2.59	0.41
7:s3:18:LEU:HD23	7:s3:18:LEU:HA	1.83	0.41
7:w3:117:LYS:HE3	7:w3:117:LYS:HB3	1.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:149:GLU:C	2:B4:153:TYR:CD2	2.87	0.41
2:B4:154:ILE:O	2:B4:158:ILE:HG13	2.20	0.41
3:C4:131:VAL:HA	3:C4:134:MET:HE2	2.02	0.41
11:E4:203:CYC:H2A	2:F4:86:ARG:HH22	1.54	0.41
3:G4:34:GLY:HA2	3:G4:37:ARG:HB3	2.03	0.41
3:K4:143:MET:CE	3:K4:143:MET:CA	2.93	0.41
3:K4:151:GLY:N	11:K4:202:CYC:HMD2	2.36	0.41
3:K4:153:CYS:CB	11:K4:202:CYC:CAC	2.99	0.41
3:M4:153:CYS:SG	3:M4:153:CYS:O	2.78	0.41
2:O4:98:CYS:SG	2:O4:104:THR:HA	2.60	0.41
3:P4:84:ARG:CZ	11:P4:201:CYC:O2A	2.67	0.41
2:Q4:73:ASN:OD1	2:Q4:73:ASN:N	2.51	0.41
2:S4:34:GLY:HA2	2:S4:37:ALA:HB3	2.01	0.41
2:S4:154:ILE:O	2:S4:158:ILE:HG13	2.20	0.41
3:T4:104:VAL:O	3:T4:108:ARG:HB2	2.20	0.41
2:Y4:84:CYS:HB3	11:Y4:201:CYC:CAC	2.49	0.41
3:Z4:104:VAL:O	3:Z4:108:ARG:HB2	2.20	0.41
2:J5:5:LEU:HD21	2:J5:27:LEU:HD13	2.03	0.41
3:K5:114:ARG:HH22	3:K5:172:GLU:HB2	1.85	0.41
11:K5:202:CYC:HAC1	11:K5:202:CYC:HHD	1.82	0.41
4:N5:50:SER:HA	4:N5:53:ARG:HB2	2.03	0.41
4:N5:265:VAL:HA	4:N5:268:LEU:HD12	2.02	0.41
2:Q5:130:VAL:HG13	2:Q5:158:ILE:HG23	2.03	0.41
3:T5:39:ASP:CG	11:T5:201:CYC:NA	2.78	0.41
11:U5:202:CYC:HMC1	3:V5:143:MET:O	2.20	0.41
11:B6:201:CYC:O1D	3:G6:57:ARG:NH2	2.53	0.41
2:F6:52:VAL:HG22	2:F6:88:ILE:HG22	2.02	0.41
3:I6:3:ASP:H	3:I6:6:THR:HG1	1.67	0.41
4:N6:84:LYS:HA	4:N6:179:ARG:HH21	1.85	0.41
7:E7:22:GLU:HG2	7:E7:25:ARG:HD3	2.03	0.41
8:F7:85:LEU:HD23	8:F7:85:LEU:HA	1.90	0.41
8:K7:85:LEU:HD23	8:K7:85:LEU:HA	1.90	0.41
7:O7:37:LEU:O	7:O7:41:GLU:HB2	2.20	0.41
7:S7:50:ILE:HG12	7:S7:136:VAL:HG12	2.02	0.41
7:S7:81:CYS:HG	11:S7:1001:CYC:H2C	1.81	0.41
8:T7:10:ASN:O	8:T7:14:VAL:HG12	2.20	0.41
7:X7:126:VAL:HG13	11:X7:1001:CYC:HBC3	2.01	0.41
11:Y7:1001:CYC:HAD2	11:Y7:1001:CYC:HHA	1.91	0.41
7:Z7:37:LEU:O	7:Z7:41:GLU:HB2	2.20	0.41
2:B8:23:GLU:OE1	2:B8:23:GLU:N	2.54	0.41
2:F8:150:THR:HG23	2:F8:154:ILE:HG13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F8:154:ILE:O	2:F8:158:ILE:HG13	2.20	0.41
3:G8:104:VAL:O	3:G8:108:ARG:HB2	2.20	0.41
2:H8:19:LEU:HD21	3:I8:95:TYR:HD1	1.85	0.41
2:H8:25:GLN:H	2:H8:25:GLN:HG3	1.65	0.41
2:H8:140:HIS:CE1	2:H8:142:LEU:HB2	2.56	0.41
3:K8:22:ASP:HA	3:K8:25:GLU:HG3	2.03	0.41
3:M8:104:VAL:O	3:M8:108:ARG:HB2	2.20	0.41
4:N8:119:ARG:NH2	4:N8:131:SER:OG	2.53	0.41
2:Q8:2:LYS:HE3	2:Q8:2:LYS:HB3	1.93	0.41
3:R8:155:SER:O	3:R8:158:GLN:HB3	2.20	0.41
2:U8:149:GLU:O	2:U8:153:TYR:N	2.49	0.41
3:V8:38:SER:O	3:V8:41:VAL:HB	2.21	0.41
3:Z8:24:LEU:HD23	3:Z8:24:LEU:HA	1.81	0.41
3:E1:66:LEU:HB3	3:E1:73:ALA:HB3	2.02	0.41
2:J1:5:LEU:HD21	2:J1:27:LEU:HD13	2.03	0.41
3:K1:66:LEU:HB3	3:K1:73:ALA:HB3	2.02	0.41
3:P1:66:LEU:HB3	3:P1:73:ALA:HB3	2.02	0.41
11:X1:201:CYC:HAA2	11:X1:201:CYC:HHA	1.95	0.41
3:Z1:143:MET:O	11:Z1:202:CYC:HMC1	2.20	0.41
3:Z1:143:MET:HE1	3:Z1:153:CYS:HB3	2.02	0.41
1:A2:207:ASP:CG	8:O3:17:LYS:CE	2.94	0.41
2:L2:137:LYS:HB3	2:L2:154:ILE:HG21	2.02	0.41
5:03:189:PRO:O	5:03:193:VAL:HG12	2.21	0.41
5:03:874:ASP:N	5:03:874:ASP:OD2	2.51	0.41
5:13:164:VAL:HG11	8:h3:27:LEU:HD13	2.03	0.41
7:G3:90:ARG:NH2	8:L3:73:TYR:OH	2.49	0.41
7:I3:69:GLY:HA3	7:C7:63:PRO:HG2	2.01	0.41
1:A4:146:GLU:HG2	1:A4:160:ARG:HH22	1.85	0.41
3:C4:35:THR:CG2	11:C4:201:CYC:O2D	2.69	0.41
3:C4:43:ARG:NH2	3:C4:148:VAL:HG13	2.17	0.41
11:C4:201:CYC:HMB3	2:H4:148:THR:HG21	2.02	0.41
3:G4:22:ASP:HA	3:G4:25:GLU:HG3	2.03	0.41
3:G4:131:VAL:HA	3:G4:134:MET:HE2	2.02	0.41
2:H4:34:GLY:HA2	2:H4:37:ALA:HB3	2.01	0.41
3:I4:22:ASP:HA	3:I4:25:GLU:HG3	2.02	0.41
2:J4:23:GLU:O	2:J4:26:TYR:HB2	2.21	0.41
3:K4:15:ARG:HG2	3:P4:63:GLN:CG	2.51	0.41
3:M4:38:SER:O	3:M4:41:VAL:HB	2.21	0.41
4:N4:43:LEU:HB3	4:N4:46:ASP:HB2	2.02	0.41
2:O4:142:LEU:C	2:O4:147:ALA:HB2	2.46	0.41
3:T4:38:SER:O	3:T4:41:VAL:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T4:131:VAL:HA	3:T4:134:MET:HE2	2.02	0.41
3:V4:159:GLU:OE2	3:V4:163:TYR:OH	2.36	0.41
2:Y4:134:LYS:HA	2:Y4:137:LYS:CD	2.51	0.41
1:A5:9:ALA:HA	1:A5:10:PRO:HD3	1.92	0.41
1:A5:22:VAL:HG11	2:F5:108:ASP:O	2.21	0.41
3:C5:114:ARG:HH22	3:C5:172:GLU:HB2	1.85	0.41
4:N5:3:VAL:HG23	4:N5:4:THR:H	1.86	0.41
4:N5:41:GLN:HG2	4:N5:148:PRO:HB2	2.03	0.41
3:E6:144:ASP:HA	3:E6:145:PRO:HD3	1.94	0.41
3:K6:35:THR:O	3:K6:36:LYS:C	2.63	0.41
3:K6:120:LEU:HD22	11:K6:201:CYC:HBD1	2.03	0.41
4:N6:205:SER:O	4:N6:208:ASN:N	2.53	0.41
2:S6:137:LYS:HB3	2:S6:154:ILE:HG21	2.02	0.41
3:T6:37:ARG:HG3	3:T6:156:LEU:HD22	2.02	0.41
7:H7:37:LEU:O	7:H7:41:GLU:HB2	2.20	0.41
7:L7:37:LEU:O	7:L7:41:GLU:HB2	2.20	0.41
8:P7:135:GLU:H	8:P7:135:GLU:HG2	1.69	0.41
7:Q7:37:LEU:O	7:Q7:41:GLU:HB2	2.20	0.41
7:Z7:3:ILE:HD12	7:Z7:3:ILE:HA	1.99	0.41
2:B8:154:ILE:O	2:B8:158:ILE:HG13	2.20	0.41
2:D8:2:LYS:HE3	2:D8:2:LYS:HB3	1.93	0.41
3:K8:51:ILE:CD1	3:K8:141:ILE:CD1	2.91	0.41
2:L8:17:ARG:HH11	2:L8:17:ARG:HB3	1.86	0.41
3:M8:153:CYS:SG	3:M8:153:CYS:O	2.78	0.41
3:P8:34:GLY:HA2	3:P8:37:ARG:HB3	2.03	0.41
3:R8:108:ARG:HA	3:R8:108:ARG:HD3	1.91	0.41
3:V8:139:VAL:O	3:V8:142:VAL:C	2.61	0.41
2:Y8:134:LYS:HA	2:Y8:137:LYS:CD	2.51	0.41
1:A1:54:PHE:HE1	1:A1:90:PHE:HB2	1.86	0.41
3:C1:114:ARG:HH22	3:C1:172:GLU:HB2	1.85	0.41
2:D1:5:LEU:HD21	2:D1:27:LEU:HD13	2.03	0.41
3:E1:79:MET:HE3	3:E1:83:LEU:HD11	2.03	0.41
3:G1:66:LEU:HB3	3:G1:73:ALA:HB3	2.02	0.41
3:I1:39:ASP:CG	11:I1:202:CYC:NA	2.78	0.41
3:I1:57:ARG:HE	3:I1:57:ARG:HB2	1.46	0.41
11:K1:202:CYC:HMB3	11:K1:202:CYC:HHB	1.79	0.41
3:M1:7:ARG:O	3:M1:11:GLN:HG2	2.20	0.41
11:M1:202:CYC:HHA	11:M1:202:CYC:HAA1	1.88	0.41
4:N1:3:VAL:HG23	4:N1:4:THR:H	1.86	0.41
4:N1:183:ALA:HB3	4:N1:188:ARG:HH21	1.85	0.41
2:O1:5:LEU:HD21	2:O1:27:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q1:130:VAL:HG13	2:Q1:158:ILE:HG23	2.03	0.41
3:R1:66:LEU:HB3	3:R1:73:ALA:HB3	2.02	0.41
2:S1:5:LEU:HD21	2:S1:27:LEU:HD13	2.03	0.41
2:S1:130:VAL:HG13	2:S1:158:ILE:HG23	2.03	0.41
3:T1:66:LEU:HB3	3:T1:73:ALA:HB3	2.02	0.41
11:U1:202:CYC:HMC1	3:V1:143:MET:O	2.20	0.41
3:X1:66:LEU:HB3	3:X1:73:ALA:HB3	2.02	0.41
3:Z1:114:ARG:HH22	3:Z1:172:GLU:HB2	1.85	0.41
1:A2:196:TRP:CB	7:N3:66:VAL:HG11	2.51	0.41
2:B2:111:LEU:O	3:G2:76:ASN:ND2	2.54	0.41
3:C2:144:ASP:HA	3:C2:145:PRO:HD3	1.90	0.41
2:D2:24:LEU:HB3	11:E2:202:CYC:HBB3	2.01	0.41
3:G2:151:GLY:O	11:G2:201:CYC:C1C	2.68	0.41
3:I2:65:GLN:NE2	3:R2:15:ARG:O	2.54	0.41
3:M2:3:ASP:N	3:M2:6:THR:OG1	2.41	0.41
2:O2:137:LYS:HB3	2:O2:154:ILE:HG21	2.02	0.41
3:R2:33:GLU:HA	3:R2:36:LYS:HZ1	1.85	0.41
3:R2:38:SER:HA	3:R2:41:VAL:CG2	2.51	0.41
2:S2:118:ILE:HD13	2:S2:118:ILE:HA	1.83	0.41
3:T2:39:ASP:O	3:T2:42:SER:HB3	2.21	0.41
3:X2:109:CYS:O	3:X2:113:LEU:HD22	2.21	0.41
4:a2:271:LYS:HA	4:a2:271:LYS:HD2	1.74	0.41
5:03:239:ARG:NH1	5:03:245:GLN:O	2.54	0.41
5:03:272:LEU:HB2	7:T3:106:GLU:HG3	2.02	0.41
5:03:618:CYS:HB2	5:03:626:LEU:HD12	2.03	0.41
5:03:784:TYR:CG	5:03:823:LEU:HG	2.55	0.41
5:03:797:THR:HG23	5:03:801:LEU:HD12	2.02	0.41
5:13:239:ARG:NH1	5:13:245:GLN:O	2.54	0.41
5:13:288:ARG:NE	8:h3:83:ARG:HH12	2.14	0.41
5:13:487:ILE:H	5:13:487:ILE:HG13	1.52	0.41
5:13:618:CYS:HB2	5:13:626:LEU:HD12	2.03	0.41
11:J3:201:CYC:HAC1	11:J3:201:CYC:HHD	1.86	0.41
7:N3:91:LEU:HD11	11:N3:1001:CYC:HBB1	2.02	0.41
7:X3:91:LEU:HD11	11:X3:1001:CYC:HBB1	2.02	0.41
7:X3:105:GLU:OE1	7:X3:155:TYR:OH	2.34	0.41
7:Z3:18:LEU:HD23	7:Z3:18:LEU:HA	1.83	0.41
8:a3:10:ASN:OD1	9:g3:169:LEU:HB2	2.21	0.41
7:b3:49:ARG:NH2	8:x3:140:LEU:HD13	2.34	0.41
7:d3:22:GLU:CD	7:i3:6:LYS:HZ1	2.28	0.41
7:d3:91:LEU:HD11	11:d3:1001:CYC:HBB1	2.02	0.41
7:d3:154:ASP:OD2	8:j3:46:ALA:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g3:43:MET:HE2	9:g3:43:MET:HB3	1.84	0.41
10:m3:85:TYR:HE2	10:m3:133:LEU:HB2	1.86	0.41
10:m3:98:ALA:HA	8:n3:5:ILE:HG21	2.02	0.41
7:q3:18:LEU:HD12	8:r3:97:LEU:HD13	2.02	0.41
7:s3:100:ASP:OD2	7:s3:101:VAL:N	2.53	0.41
11:t3:1001:CYC:HAC1	11:t3:1001:CYC:HHD	1.86	0.41
7:u3:100:ASP:OD2	7:u3:101:VAL:N	2.52	0.41
7:w3:117:LYS:HD2	7:O7:113:ARG:CZ	2.51	0.41
7:y3:91:LEU:HD11	11:y3:1001:CYC:HBB1	2.02	0.41
2:B4:98:CYS:SG	2:B4:104:THR:HA	2.60	0.41
3:C4:46:ASN:O	2:H4:159:ASN:ND2	2.49	0.41
3:C4:108:ARG:HA	3:C4:108:ARG:HD3	1.91	0.41
3:C4:143:MET:HE1	3:C4:153:CYS:C	2.46	0.41
3:E4:140:ALA:O	3:E4:144:ASP:OD2	2.37	0.41
2:H4:28:TYR:O	2:H4:31:LEU:HB2	2.21	0.41
2:H4:98:CYS:SG	2:H4:104:THR:HA	2.60	0.41
3:I4:38:SER:O	3:I4:41:VAL:HB	2.21	0.41
2:J4:98:CYS:SG	2:J4:104:THR:HA	2.60	0.41
11:L4:202:CYC:HMB2	3:M4:39:ASP:OD2	2.21	0.41
3:M4:108:ARG:HA	3:M4:108:ARG:HD3	1.91	0.41
2:O4:28:TYR:O	2:O4:31:LEU:HB2	2.21	0.41
3:P4:96:ALA:HB2	3:P4:105:LEU:HB2	2.03	0.41
3:P4:131:VAL:HA	3:P4:134:MET:HE2	2.02	0.41
2:Q4:19:LEU:CD2	2:Q4:19:LEU:H	2.33	0.41
2:Q4:28:TYR:O	2:Q4:31:LEU:HB2	2.21	0.41
2:S4:25:GLN:HE22	2:Y4:30:ARG:HA	1.85	0.41
3:T4:22:ASP:HA	3:T4:25:GLU:HG3	2.03	0.41
3:T4:108:ARG:HA	3:T4:108:ARG:HD3	1.91	0.41
3:V4:104:VAL:O	3:V4:108:ARG:HB2	2.20	0.41
2:W4:28:TYR:O	2:W4:31:LEU:HB2	2.21	0.41
2:Y4:36:PHE:CZ	2:Y4:149:GLU:OE1	2.73	0.41
1:A5:17:VAL:HB	3:E5:84:ARG:NH1	2.32	0.41
3:C5:143:MET:HE1	3:C5:153:CYS:HB3	2.02	0.41
2:D5:4:PRO:HD3	2:L5:22:THR:HG22	2.01	0.41
2:D5:5:LEU:HD21	2:D5:27:LEU:HD13	2.03	0.41
2:F5:5:LEU:HD21	2:F5:27:LEU:HD13	2.03	0.41
3:G5:143:MET:HE1	3:G5:153:CYS:HB3	2.02	0.41
3:I5:143:MET:HE1	3:I5:153:CYS:HB3	2.02	0.41
2:J5:30:ARG:HA	2:J5:30:ARG:HD2	1.95	0.41
3:K5:39:ASP:CG	11:K5:202:CYC:NA	2.78	0.41
2:L5:73:ASN:O	11:L5:201:CYC:HMD3	2.13	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N5:25:ASN:OD1	4:N5:25:ASN:N	2.53	0.41
4:N5:194:ALA:HB3	3:P5:119:ALA:HB1	2.03	0.41
11:U5:202:CYC:HMB1	11:U5:202:CYC:HHB	1.83	0.41
3:V5:143:MET:HE1	3:V5:153:CYS:HB3	2.02	0.41
1:A6:107:CYS:SG	1:A6:108:ILE:N	2.93	0.41
1:A6:191:PHE:HD1	1:A6:191:PHE:HA	1.54	0.41
11:A6:301:CYC:HMD3	3:G6:82:CYS:HB2	2.03	0.41
3:C6:91:ARG:HE	3:C6:91:ARG:HB3	1.61	0.41
3:C6:120:LEU:HD22	11:C6:201:CYC:HBD1	2.03	0.41
3:E6:82:CYS:HB2	11:E6:201:CYC:HMD3	2.03	0.41
3:I6:4:ILE:HD11	3:I6:100:GLY:HA3	2.03	0.41
3:I6:41:VAL:O	3:I6:45:THR:HB	2.20	0.41
2:J6:137:LYS:HB3	2:J6:154:ILE:HG21	2.02	0.41
3:K6:158:GLN:NE2	3:P6:162:LEU:HA	2.36	0.41
3:K6:162:LEU:HD13	3:P6:166:THR:HG23	2.03	0.41
11:N6:301:CYC:HMD3	3:R6:82:CYS:HB2	2.03	0.41
3:P6:120:LEU:HD22	11:P6:201:CYC:HBD1	2.03	0.41
3:P6:153:CYS:SG	3:P6:153:CYS:O	2.79	0.41
2:Q6:52:VAL:HG22	2:Q6:88:ILE:HG22	2.02	0.41
3:R6:153:CYS:SG	3:R6:156:LEU:CG	3.09	0.41
2:W6:137:LYS:HB3	2:W6:154:ILE:HG21	2.02	0.41
3:X6:27:LEU:HD23	3:X6:27:LEU:HA	1.91	0.41
3:Z6:33:GLU:HB3	3:Z6:36:LYS:HE2	1.99	0.41
3:Z6:120:LEU:HD22	11:Z6:201:CYC:HBD1	2.03	0.41
7:C7:72:ALA:CB	11:C7:1001:CYC:OC	2.63	0.41
7:O7:50:ILE:HG12	7:O7:136:VAL:HG12	2.02	0.41
8:R7:61:LEU:HD23	8:R7:61:LEU:HA	1.87	0.41
7:S7:81:CYS:SG	11:S7:1001:CYC:C2C	2.95	0.41
6:U7:4:PHE:HE2	6:U7:33:TYR:HD2	1.68	0.41
1:A8:26:GLU:OE1	1:A8:163:SER:OG	2.36	0.41
3:C8:143:MET:HE1	3:C8:153:CYS:C	2.46	0.41
2:D8:4:PRO:HB3	2:L8:22:THR:HB	2.03	0.41
2:D8:22:THR:CG2	2:L8:103:GLY:HA2	2.50	0.41
2:D8:98:CYS:SG	2:D8:104:THR:HA	2.60	0.41
3:E8:34:GLY:HA2	3:E8:37:ARG:HB3	2.03	0.41
3:E8:38:SER:O	3:E8:41:VAL:HB	2.21	0.41
11:E8:202:CYC:CBD	11:E8:202:CYC:CHA	2.86	0.41
3:G8:47:ASN:HB2	3:G8:141:ILE:CD1	2.51	0.41
2:J8:98:CYS:SG	2:J8:104:THR:HA	2.60	0.41
3:K8:151:GLY:N	11:K8:202:CYC:HMD2	2.36	0.41
2:L8:151:ASN:N	2:L8:151:ASN:ND2	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M8:131:VAL:HA	3:M8:134:MET:HE2	2.02	0.41
2:O8:98:CYS:SG	2:O8:104:THR:HA	2.60	0.41
3:P8:38:SER:O	3:P8:41:VAL:HB	2.20	0.41
3:P8:151:GLY:CA	11:P8:202:CYC:HMD2	2.46	0.41
2:Q8:19:LEU:CD2	2:Q8:19:LEU:H	2.33	0.41
2:Q8:22:THR:HG23	2:U8:103:GLY:CA	2.51	0.41
3:R8:38:SER:O	3:R8:41:VAL:HB	2.20	0.41
2:S8:28:TYR:O	2:S8:31:LEU:HB2	2.21	0.41
3:T8:38:SER:O	3:T8:41:VAL:HB	2.21	0.41
2:U8:142:LEU:O	2:U8:147:ALA:HB2	2.20	0.41
3:V8:104:VAL:O	3:V8:108:ARG:HB2	2.20	0.41
2:W8:28:TYR:O	2:W8:31:LEU:HB2	2.21	0.41
2:W8:98:CYS:SG	2:W8:104:THR:HA	2.60	0.41
2:Y8:139:ASN:ND2	2:Y8:139:ASN:O	2.53	0.41
3:K1:57:ARG:HE	3:K1:57:ARG:HB2	1.46	0.41
3:M1:39:ASP:CG	11:M1:202:CYC:NA	2.78	0.41
3:M1:79:MET:HE3	3:M1:83:LEU:HD11	2.03	0.41
4:N1:182:ILE:HB	4:N1:214:ARG:HH21	1.85	0.41
3:R1:39:ASP:CG	11:R1:202:CYC:NA	2.78	0.41
3:R1:143:MET:HE1	3:R1:153:CYS:HB3	2.02	0.41
3:V1:89:ILE:HD13	3:V1:89:ILE:HA	1.90	0.41
2:Y1:130:VAL:HG13	2:Y1:158:ILE:HG23	2.03	0.41
3:Z1:57:ARG:HE	3:Z1:57:ARG:HB2	1.46	0.41
2:B2:88:ILE:HG12	11:B2:201:CYC:HBC1	2.03	0.41
3:E2:82:CYS:HB2	11:E2:201:CYC:HMD3	2.03	0.41
3:I2:82:CYS:HB2	11:I2:201:CYC:HMD3	2.03	0.41
3:I2:84:ARG:NH2	11:I2:201:CYC:CGA	2.62	0.41
11:N2:302:CYC:HBD1	3:T2:120:LEU:HD22	2.03	0.41
3:P2:36:LYS:HZ2	11:P2:202:CYC:CGD	2.30	0.41
3:P2:153:CYS:SG	3:P2:153:CYS:O	2.79	0.41
2:Q2:52:VAL:HG22	2:Q2:88:ILE:HG22	2.02	0.41
3:T2:36:LYS:O	3:T2:156:LEU:HD11	2.21	0.41
3:Z2:91:ARG:HE	3:Z2:91:ARG:HB3	1.61	0.41
4:a2:241:VAL:HG22	4:a2:285:ILE:HG12	2.03	0.41
5:03:334:ILE:HD11	5:03:424:PRO:HG3	2.03	0.41
5:03:364:VAL:HG22	5:03:372:LEU:HB2	2.03	0.41
5:03:443:TYR:O	8:J3:118:SER:HB3	2.16	0.41
5:03:612:ASN:ND2	5:03:612:ASN:O	2.54	0.41
5:13:379:SER:HB2	5:13:381:GLU:H	1.86	0.41
6:23:4:PHE:HE1	6:23:33:TYR:HD1	1.68	0.41
7:K3:18:LEU:HD23	7:K3:18:LEU:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K3:161:GLU:O	8:F7:49:ALA:CB	2.67	0.41
7:X3:63:PRO:HD2	7:J7:69:GLY:HA3	2.02	0.41
7:b3:91:LEU:HD11	11:b3:1001:CYC:HBB1	2.02	0.41
8:n3:7:SER:O	8:n3:11:SER:OG	2.39	0.41
7:o3:91:LEU:HD11	11:o3:1001:CYC:HBB1	2.02	0.41
3:E4:34:GLY:HA2	3:E4:37:ARG:HB3	2.03	0.41
2:H4:18:PHE:CE1	3:I4:91:ARG:HG3	2.56	0.41
3:I4:34:GLY:HA2	3:I4:37:ARG:HB3	2.03	0.41
2:J4:64:PRO:HB3	2:J5:58:ALA:HA	1.78	0.41
3:M4:96:ALA:HB2	3:M4:105:LEU:HB2	2.03	0.41
3:M4:131:VAL:HA	3:M4:134:MET:HE2	2.02	0.41
11:N4:301:CYC:CAC	3:R4:82:CYS:HG	1.99	0.41
2:O4:73:ASN:OD1	2:O4:73:ASN:N	2.51	0.41
3:P4:38:SER:O	3:P4:41:VAL:HB	2.20	0.41
2:Q4:22:THR:CG2	2:U4:103:GLY:CA	2.99	0.41
3:R4:96:ALA:HB2	3:R4:105:LEU:HB2	2.03	0.41
2:S4:28:TYR:O	2:S4:31:LEU:HB2	2.21	0.41
2:D5:130:VAL:HG13	2:D5:158:ILE:HG23	2.03	0.41
2:F5:149:GLU:CD	11:K5:202:CYC:HAB2	2.40	0.41
3:I5:43:ARG:NH1	3:I5:144:ASP:O	2.55	0.41
11:K5:202:CYC:HHA	11:K5:202:CYC:HAA1	1.88	0.41
4:N5:281:ARG:HE	4:N5:281:ARG:HB3	1.75	0.41
2:O5:5:LEU:HD21	2:O5:27:LEU:HD13	2.03	0.41
3:P5:143:MET:O	11:P5:202:CYC:HMC1	2.20	0.41
3:P5:143:MET:HE1	3:P5:153:CYS:HB3	2.02	0.41
3:R5:114:ARG:HH22	3:R5:172:GLU:HB2	1.85	0.41
1:A6:22:VAL:H	1:A6:22:VAL:HG22	1.20	0.41
3:I6:65:GLN:NE2	3:R6:15:ARG:O	2.54	0.41
3:I6:82:CYS:HB2	11:I6:201:CYC:HMD3	2.03	0.41
3:I6:120:LEU:HD22	11:I6:201:CYC:HBD1	2.03	0.41
2:L6:137:LYS:HB3	2:L6:154:ILE:HG21	2.02	0.41
3:M6:4:ILE:HD11	3:M6:100:GLY:HA3	2.03	0.41
3:P6:82:CYS:HB2	11:P6:201:CYC:HMD3	2.03	0.41
2:Q6:51:LEU:HD23	2:Q6:51:LEU:HA	1.96	0.41
11:T6:201:CYC:CBD	11:T6:201:CYC:CHA	2.86	0.41
3:X6:109:CYS:O	3:X6:113:LEU:HD22	2.21	0.41
3:X6:120:LEU:HD22	11:X6:201:CYC:HBD1	2.03	0.41
6:G7:59:LYS:HE2	6:G7:59:LYS:HB2	1.85	0.41
7:H7:50:ILE:HG12	7:H7:136:VAL:HG12	2.02	0.41
8:Y7:135:GLU:H	8:Y7:135:GLU:HG2	1.69	0.41
2:D8:17:ARG:CZ	2:D8:17:ARG:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E8:96:ALA:HB2	3:E8:105:LEU:HB2	2.03	0.41
2:F8:34:GLY:HA2	2:F8:37:ALA:HB3	2.01	0.41
3:I8:22:ASP:HA	3:I8:25:GLU:HG3	2.03	0.41
3:I8:108:ARG:HA	3:I8:108:ARG:HD3	1.91	0.41
2:J8:19:LEU:CD1	2:J8:23:GLU:HG2	2.51	0.41
3:K8:34:GLY:HA2	3:K8:37:ARG:HB3	2.03	0.41
3:K8:38:SER:O	3:K8:41:VAL:HB	2.21	0.41
3:M8:22:ASP:HA	3:M8:25:GLU:HG3	2.02	0.41
3:M8:34:GLY:HA2	3:M8:37:ARG:HB3	2.03	0.41
3:M8:156:LEU:HD23	3:M8:156:LEU:HA	1.80	0.41
4:N8:29:ASP:OD1	4:N8:29:ASP:N	2.52	0.41
2:Y8:98:CYS:SG	2:Y8:104:THR:HA	2.60	0.41
1:A1:21:THR:HB	1:A1:27:GLN:HE22	1.86	0.40
3:C1:79:MET:HE3	3:C1:83:LEU:HD11	2.03	0.40
2:F1:49:ASP:OD2	2:F1:49:ASP:N	2.47	0.40
3:I1:79:MET:HE3	3:I1:83:LEU:HD11	2.04	0.40
3:K1:143:MET:HE1	3:K1:153:CYS:HB3	2.02	0.40
4:N1:40:ARG:HG3	4:N1:45:ASN:HA	2.03	0.40
4:N1:245:ALA:HA	4:N1:257:SER:HB3	2.02	0.40
3:R1:43:ARG:NH1	3:R1:144:ASP:O	2.55	0.40
3:R1:143:MET:O	11:R1:202:CYC:HMC1	2.20	0.40
3:X1:114:ARG:HH22	3:X1:172:GLU:HB2	1.85	0.40
3:Z1:79:MET:HE3	3:Z1:83:LEU:HD11	2.03	0.40
1:A2:221:MET:HE3	7:I3:52:LYS:CG	2.43	0.40
2:F2:118:ILE:HA	2:F2:118:ILE:HD13	1.84	0.40
11:N2:301:CYC:HMD3	3:R2:82:CYS:HB2	2.03	0.40
11:R2:201:CYC:CBD	11:R2:201:CYC:CHA	2.86	0.40
2:U2:17:ARG:O	3:V2:95:TYR:OH	2.37	0.40
11:X2:203:CYC:HBC1	2:Y2:88:ILE:HG12	2.03	0.40
2:Y2:13:ASP:OD1	3:Z2:108:ARG:NE	2.50	0.40
3:Z2:151:GLY:CA	11:Z2:203:CYC:HMA3	2.51	0.40
5:03:489:ASN:ND2	8:L3:83:ARG:NH1	2.64	0.40
5:13:463:ARG:NH1	8:c3:117:ASN:O	2.54	0.40
5:13:481:ILE:HG23	11:13:903:CYC:HBA2	2.03	0.40
5:13:653:PRO:O	5:13:657:SER:HB2	2.21	0.40
5:13:784:TYR:CG	5:13:823:LEU:HG	2.56	0.40
6:23:9:CYS:HB2	6:23:26:TYR:HD2	1.86	0.40
6:33:7:THR:OG1	6:33:28:THR:HG22	2.21	0.40
6:33:9:CYS:HB2	6:33:26:TYR:HD2	1.86	0.40
7:I3:20:PRO:CD	7:A7:155:TYR:HB2	2.51	0.40
7:K3:70:GLY:CA	7:A7:64:ASP:OD1	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P3:91:LEU:HD11	11:P3:1001:CYC:HBB1	2.02	0.40
10:V3:71:ASN:HB3	11:V3:201:CYC:HMD2	2.03	0.40
8:t3:3:ASP:OD2	8:t3:3:ASP:N	2.37	0.40
7:u3:151:ALA:CB	7:O7:20:PRO:HG3	2.49	0.40
3:G4:24:LEU:HA	3:G4:24:LEU:HD23	1.81	0.40
3:G4:96:ALA:HB2	3:G4:105:LEU:HB2	2.03	0.40
3:M4:139:VAL:CA	3:M4:142:VAL:CG1	2.96	0.40
4:N4:29:ASP:OD1	4:N4:29:ASP:N	2.52	0.40
11:O4:201:CYC:HMA1	3:T4:79:MET:HG2	2.03	0.40
3:P4:22:ASP:HA	3:P4:25:GLU:HG3	2.02	0.40
3:R4:34:GLY:HA2	3:R4:37:ARG:HB3	2.03	0.40
3:X4:96:ALA:HB2	3:X4:105:LEU:HB2	2.03	0.40
3:X4:142:VAL:HG22	11:X4:202:CYC:CBC	2.52	0.40
3:Z4:131:VAL:HA	3:Z4:134:MET:HE2	2.02	0.40
3:K5:7:ARG:O	3:K5:11:GLN:HG2	2.20	0.40
3:M5:43:ARG:NH1	3:M5:144:ASP:O	2.54	0.40
3:R5:143:MET:HE1	3:R5:153:CYS:HB3	2.02	0.40
3:X5:89:ILE:HD13	3:X5:89:ILE:HA	1.90	0.40
2:Y5:30:ARG:HA	2:Y5:30:ARG:HD2	1.95	0.40
2:D6:137:LYS:HB3	2:D6:154:ILE:HG21	2.02	0.40
3:G6:4:ILE:HD11	3:G6:100:GLY:HA3	2.03	0.40
3:K6:82:CYS:HB2	11:K6:201:CYC:HMD3	2.03	0.40
2:L6:27:LEU:CD2	3:M6:38:SER:OG	2.64	0.40
2:Q6:137:LYS:HB3	2:Q6:154:ILE:HG21	2.02	0.40
3:R6:38:SER:HA	3:R6:41:VAL:CG2	2.51	0.40
3:X6:4:ILE:HD11	3:X6:100:GLY:HA3	2.03	0.40
6:G7:7:THR:HB	6:G7:28:THR:HG23	2.02	0.40
7:X7:81:CYS:HG	11:X7:1001:CYC:CAC	2.22	0.40
1:A8:25:ASP:HB3	2:F8:7:GLU:OE2	2.22	0.40
11:C8:201:CYC:HMB3	2:H8:148:THR:HG21	2.02	0.40
2:D8:36:PHE:HZ	2:D8:149:GLU:OE2	2.04	0.40
3:E8:131:VAL:HA	3:E8:134:MET:HE2	2.02	0.40
3:G8:34:GLY:HA2	3:G8:37:ARG:HB3	2.03	0.40
3:I8:34:GLY:HA2	3:I8:37:ARG:HB3	2.03	0.40
2:J8:28:TYR:O	2:J8:31:LEU:HB2	2.21	0.40
3:K8:15:ARG:HG2	3:P8:63:GLN:CG	2.51	0.40
2:L8:28:TYR:O	2:L8:31:LEU:HB2	2.21	0.40
3:R8:34:GLY:HA2	3:R8:37:ARG:HB3	2.03	0.40
2:S8:38:LEU:HD23	2:S8:38:LEU:HA	1.91	0.40
2:U8:149:GLU:C	2:U8:153:TYR:CD2	2.73	0.40
11:D1:201:CYC:NA	3:E1:39:ASP:CG	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:5:LEU:HD21	2:H1:27:LEU:HD13	2.03	0.40
4:N1:50:SER:HA	4:N1:53:ARG:HB2	2.03	0.40
3:P1:79:MET:HE3	3:P1:83:LEU:HD11	2.03	0.40
2:S1:157:ALA:O	2:S1:161:LEU:HB2	2.22	0.40
2:Y1:157:ALA:O	2:Y1:161:LEU:HB2	2.22	0.40
3:E2:4:ILE:HD11	3:E2:100:GLY:HA3	2.03	0.40
11:E2:203:CYC:HBC1	2:F2:88:ILE:HG12	2.03	0.40
3:M2:82:CYS:HB2	11:M2:201:CYC:HMD3	2.03	0.40
3:P2:141:ILE:O	3:P2:144:ASP:OD2	2.40	0.40
3:R2:153:CYS:SG	3:R2:156:LEU:CG	3.09	0.40
3:X2:39:ASP:O	3:X2:42:SER:HB3	2.21	0.40
5:03:176:ARG:O	5:03:230:GLN:O	2.39	0.40
5:13:347:LEU:HD23	5:13:347:LEU:HA	1.95	0.40
7:I3:91:LEU:HD11	11:I3:1001:CYC:HBB1	2.02	0.40
11:M3:201:CYC:HAC1	11:M3:201:CYC:HHD	1.86	0.40
7:q3:113:ARG:CZ	7:q3:160:MET:O	2.69	0.40
8:z3:7:SER:O	8:z3:11:SER:OG	2.39	0.40
2:D4:17:ARG:CZ	2:D4:17:ARG:HB2	2.51	0.40
2:D4:20:SER:OG	2:L4:104:THR:HG23	2.21	0.40
2:D4:149:GLU:C	2:D4:153:TYR:CD2	2.87	0.40
3:G4:47:ASN:HB2	3:G4:141:ILE:CD1	2.51	0.40
2:O4:140:HIS:CE1	2:O4:142:LEU:HB2	2.56	0.40
3:R4:22:ASP:HA	3:R4:25:GLU:HG3	2.02	0.40
3:R4:67:ILE:CB	2:S4:86:ARG:HH22	2.34	0.40
3:V4:34:GLY:HA2	3:V4:37:ARG:HB3	2.03	0.40
11:V4:202:CYC:CBD	11:V4:202:CYC:CHA	2.85	0.40
3:X4:143:MET:SD	3:X4:143:MET:O	2.79	0.40
3:C5:143:MET:O	11:C5:201:CYC:HMC1	2.20	0.40
2:J5:157:ALA:O	2:J5:161:LEU:HB2	2.22	0.40
4:N5:182:ILE:HB	4:N5:214:ARG:HH21	1.85	0.40
3:P5:39:ASP:CG	11:P5:202:CYC:NA	2.78	0.40
2:S5:2:LYS:H	2:S5:105:GLY:HA3	1.85	0.40
2:S5:24:LEU:HD12	11:T5:201:CYC:CBB	2.48	0.40
11:U5:202:CYC:HHD	11:U5:202:CYC:HAC1	1.82	0.40
2:W5:5:LEU:HD21	2:W5:27:LEU:HD13	2.03	0.40
2:Y5:157:ALA:O	2:Y5:161:LEU:HB2	2.22	0.40
3:E6:65:GLN:H	3:E6:65:GLN:HG3	1.48	0.40
2:J6:118:ILE:HD13	2:J6:118:ILE:HA	1.84	0.40
3:K6:153:CYS:SG	3:K6:153:CYS:O	2.78	0.40
3:M6:120:LEU:HD22	11:M6:201:CYC:HBD1	2.03	0.40
3:P6:46:ASN:ND2	2:W6:152:ASN:OD1	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T6:4:ILE:HD11	3:T6:100:GLY:HA3	2.03	0.40
2:U6:52:VAL:HG22	2:U6:88:ILE:HG22	2.02	0.40
3:V6:57:ARG:CZ	2:W6:122:PHE:CE1	3.03	0.40
3:Z6:151:GLY:CA	11:Z6:202:CYC:HMA3	2.51	0.40
7:A7:106:GLU:CD	6:G7:65:GLY:H	2.29	0.40
8:P7:53:LYS:HB3	8:P7:53:LYS:HE2	1.88	0.40
6:U7:3:MET:HE3	6:U7:3:MET:HB2	1.90	0.40
7:X7:18:LEU:HD12	8:Y7:97:LEU:HD13	2.03	0.40
2:D8:28:TYR:O	2:D8:31:LEU:HB2	2.21	0.40
3:E8:22:ASP:HA	3:E8:25:GLU:HG3	2.03	0.40
3:R8:96:ALA:HB2	3:R8:105:LEU:HB2	2.03	0.40
3:T8:96:ALA:HB2	3:T8:105:LEU:HB2	2.03	0.40
3:X8:37:ARG:NH2	3:X8:159:GLU:CD	2.70	0.40
2:Y8:134:LYS:HA	2:Y8:137:LYS:HD3	2.04	0.40
3:I1:57:ARG:HH12	11:J1:201:CYC:CGD	2.13	0.40
4:N1:161:THR:HG23	11:R1:201:CYC:HAB2	2.03	0.40
2:O1:157:ALA:O	2:O1:161:LEU:HB2	2.22	0.40
3:R1:79:MET:HE3	3:R1:83:LEU:HD11	2.03	0.40
3:R1:114:ARG:HH22	3:R1:172:GLU:HB2	1.85	0.40
3:T1:79:MET:HE3	3:T1:83:LEU:HD11	2.03	0.40
3:T1:143:MET:HE1	3:T1:153:CYS:HB3	2.02	0.40
2:U1:5:LEU:HD21	2:U1:27:LEU:HD13	2.03	0.40
3:C2:120:LEU:HD22	11:C2:201:CYC:HBD1	2.03	0.40
2:D2:88:ILE:HG12	11:D2:201:CYC:HBC1	2.03	0.40
3:E2:91:ARG:HE	3:E2:91:ARG:HB3	1.61	0.40
3:K2:162:LEU:HD13	3:P2:166:THR:HG23	2.03	0.40
3:P2:38:SER:HA	3:P2:41:VAL:CG2	2.51	0.40
3:P2:82:CYS:HB2	11:P2:201:CYC:HMD3	2.03	0.40
3:V2:82:CYS:HB2	11:V2:201:CYC:HMD3	2.03	0.40
3:X2:120:LEU:HD22	11:X2:201:CYC:HBD1	2.03	0.40
5:03:379:SER:HB2	5:03:381:GLU:H	1.86	0.40
5:13:525:PHE:CE2	7:J7:102:THR:HG21	2.57	0.40
5:13:739:PHE:HE2	5:13:773:LEU:HD22	1.86	0.40
6:33:3:MET:HB2	6:33:57:THR:HG23	2.03	0.40
7:Z3:91:LEU:HD11	11:Z3:1001:CYC:HBB1	2.02	0.40
7:f3:91:LEU:HD11	11:f3:1001:CYC:HBB1	2.02	0.40
8:h3:7:SER:O	8:h3:11:SER:OG	2.39	0.40
8:l3:7:SER:O	8:l3:11:SER:OG	2.39	0.40
7:q3:91:LEU:HD11	11:q3:1001:CYC:HBB1	2.02	0.40
8:r3:3:ASP:OD2	8:r3:6:THR:OG1	2.30	0.40
3:C4:34:GLY:HA2	3:C4:37:ARG:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:104:VAL:O	3:C4:108:ARG:HB2	2.20	0.40
3:C4:139:VAL:C	3:C4:142:VAL:HG13	2.45	0.40
3:E4:22:ASP:HA	3:E4:25:GLU:HG3	2.02	0.40
3:E4:82:CYS:HG	11:E4:201:CYC:CAC	2.00	0.40
2:H4:83:LYS:HZ2	2:H4:86:ARG:HH12	1.69	0.40
2:J4:28:TYR:O	2:J4:31:LEU:HB2	2.21	0.40
3:K4:96:ALA:HB2	3:K4:105:LEU:HB2	2.03	0.40
2:L4:38:LEU:HD23	2:L4:38:LEU:HA	1.91	0.40
3:P4:34:GLY:HA2	3:P4:37:ARG:HB3	2.03	0.40
2:Q4:24:LEU:CD1	3:R4:42:SER:CB	2.99	0.40
3:V4:57:ARG:HD3	11:W4:201:CYC:O2D	2.21	0.40
3:X4:22:ASP:HA	3:X4:25:GLU:HG3	2.02	0.40
3:Z4:22:ASP:HA	3:Z4:25:GLU:HG3	2.02	0.40
1:A5:9:ALA:HB1	3:E5:107:ASP:O	2.22	0.40
11:A5:301:CYC:HAA2	11:A5:301:CYC:HHA	1.94	0.40
11:C5:202:CYC:HMD3	2:D5:73:ASN:O	2.14	0.40
3:E5:143:MET:HE1	3:E5:153:CYS:HB3	2.02	0.40
4:N5:40:ARG:HG3	4:N5:45:ASN:HA	2.03	0.40
2:O5:84:CYS:HG	11:O5:201:CYC:CAC	2.11	0.40
3:R5:43:ARG:NH1	3:R5:144:ASP:O	2.54	0.40
2:S5:130:VAL:HG13	2:S5:158:ILE:HG23	2.03	0.40
3:X5:143:MET:O	11:X5:202:CYC:HMC1	2.20	0.40
2:Y5:5:LEU:HD21	2:Y5:27:LEU:HD13	2.03	0.40
3:Z5:66:LEU:HB3	3:Z5:73:ALA:HB3	2.02	0.40
3:C6:82:CYS:HB2	11:C6:201:CYC:HMD3	2.03	0.40
2:F6:137:LYS:HB3	2:F6:154:ILE:HG21	2.02	0.40
3:M6:156:LEU:HD22	3:M6:156:LEU:N	2.37	0.40
2:O6:52:VAL:HG22	2:O6:88:ILE:HG22	2.02	0.40
3:P6:57:ARG:CZ	2:Q6:72:ASN:CG	2.94	0.40
3:T6:36:LYS:O	3:T6:156:LEU:HD11	2.21	0.40
2:W6:52:VAL:HG22	2:W6:88:ILE:HG22	2.02	0.40
8:F7:53:LYS:HB3	8:F7:53:LYS:HE2	1.87	0.40
8:K7:53:LYS:HB3	8:K7:53:LYS:HE2	1.88	0.40
1:A8:201:ARG:HA	1:A8:201:ARG:HD3	1.89	0.40
3:C8:38:SER:O	3:C8:41:VAL:HB	2.20	0.40
2:D8:24:LEU:CD1	2:L8:152:ASN:HD21	1.96	0.40
3:I8:74:TYR:OH	2:J8:93:ARG:NH1	2.54	0.40
2:J8:24:LEU:HD12	3:K8:39:ASP:CA	2.52	0.40
4:N8:182:ILE:HD11	3:T8:115:GLU:HG2	2.02	0.40
3:P8:22:ASP:HA	3:P8:25:GLU:HG3	2.03	0.40
3:P8:84:ARG:CZ	11:P8:201:CYC:O2A	2.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T8:37:ARG:NH1	3:T8:159:GLU:OE1	2.39	0.40
2:U8:28:TYR:O	2:U8:31:LEU:HB2	2.21	0.40
3:X8:142:VAL:HG22	11:X8:202:CYC:CBC	2.52	0.40
3:Z8:22:ASP:HA	3:Z8:25:GLU:HG3	2.03	0.40
11:C1:201:CYC:HHB	11:C1:201:CYC:HMB1	1.83	0.40
2:J1:157:ALA:O	2:J1:161:LEU:HB2	2.22	0.40
4:N1:3:VAL:HG21	4:N1:12:THR:HG23	2.04	0.40
4:N1:25:ASN:OD1	4:N1:25:ASN:N	2.53	0.40
3:T1:143:MET:O	11:T1:201:CYC:HMC1	2.20	0.40
3:Z1:41:VAL:O	3:Z1:45:THR:OG1	2.31	0.40
3:C2:91:ARG:HE	3:C2:91:ARG:HB3	1.61	0.40
3:M2:4:ILE:HD11	3:M2:100:GLY:HA3	2.03	0.40
3:M2:27:LEU:HD23	3:M2:27:LEU:HA	1.91	0.40
3:Z2:33:GLU:HB3	3:Z2:36:LYS:HE2	1.99	0.40
3:Z2:153:CYS:O	3:Z2:153:CYS:SG	2.79	0.40
5:13:334:ILE:HD11	5:13:424:PRO:HG3	2.03	0.40
5:13:512:ASN:HA	6:N7:23:GLN:CD	2.47	0.40
5:13:872:ASN:OD1	5:13:872:ASN:N	2.55	0.40
6:23:3:MET:HB2	6:23:57:THR:HG23	2.03	0.40
8:L3:87:TYR:HE1	8:L3:90:ARG:HH21	1.69	0.40
8:U3:85:LEU:HD23	8:U3:85:LEU:HA	1.96	0.40
7:b3:18:LEU:HD23	7:b3:18:LEU:HA	1.83	0.40
10:m3:39:ILE:HD11	10:m3:141:LEU:HD13	2.02	0.40
7:o3:60:GLN:HG2	1:A5:226:GLN:HE21	1.86	0.40
7:o3:76:GLU:HG3	1:A5:219:LEU:CD1	2.52	0.40
8:v3:62:TYR:CG	1:A5:203:PHE:O	2.75	0.40
8:x3:7:SER:O	8:x3:11:SER:OG	2.39	0.40
1:A4:25:ASP:HB3	2:F4:7:GLU:OE2	2.22	0.40
1:A4:57:ALA:HB1	1:A4:61:ASP:HB2	2.04	0.40
1:A4:60:CYS:SG	1:A4:61:ASP:N	2.93	0.40
2:B4:150:THR:HG23	2:B4:154:ILE:HD11	1.99	0.40
2:D4:28:TYR:O	2:D4:31:LEU:HB2	2.21	0.40
2:D4:98:CYS:SG	2:D4:104:THR:HA	2.60	0.40
2:D4:150:THR:C	2:D4:153:TYR:HB2	2.47	0.40
2:J4:63:PHE:O	2:J4:66:THR:OG1	2.39	0.40
2:L4:17:ARG:HH11	2:L4:17:ARG:HB3	1.86	0.40
2:Q4:152:ASN:HD21	2:U4:21:ASN:CB	2.30	0.40
3:R4:155:SER:O	3:R4:158:GLN:HB3	2.20	0.40
2:U4:28:TYR:O	2:U4:31:LEU:HB2	2.21	0.40
1:A5:54:PHE:HE1	1:A5:90:PHE:HB2	1.86	0.40
3:C5:43:ARG:NH1	3:C5:144:ASP:O	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D5:201:CYC:NA	3:E5:39:ASP:CG	2.78	0.40
3:G5:66:LEU:HB3	3:G5:73:ALA:HB3	2.02	0.40
2:H5:5:LEU:HD21	2:H5:27:LEU:HD13	2.03	0.40
2:H5:157:ALA:O	2:H5:161:LEU:HB2	2.22	0.40
3:K5:43:ARG:NH1	3:K5:144:ASP:O	2.54	0.40
2:L5:5:LEU:HD21	2:L5:27:LEU:HD13	2.03	0.40
4:N5:183:ALA:HB3	4:N5:188:ARG:HH21	1.85	0.40
3:P5:43:ARG:NH1	3:P5:144:ASP:O	2.55	0.40
2:S5:5:LEU:HD21	2:S5:27:LEU:HD13	2.03	0.40
3:T5:43:ARG:NH1	3:T5:144:ASP:O	2.55	0.40
3:T5:66:LEU:HB3	3:T5:73:ALA:HB3	2.02	0.40
11:T5:201:CYC:HHD	11:T5:201:CYC:HAC1	1.82	0.40
3:X5:66:LEU:HB3	3:X5:73:ALA:HB3	2.02	0.40
3:X5:79:MET:HE3	3:X5:83:LEU:HD11	2.03	0.40
2:B6:111:LEU:O	3:G6:76:ASN:ND2	2.54	0.40
3:C6:4:ILE:HD11	3:C6:100:GLY:HA3	2.03	0.40
2:F6:88:ILE:HG12	11:F6:201:CYC:HBC1	2.03	0.40
2:O6:88:ILE:HG12	11:O6:201:CYC:HBC1	2.03	0.40
2:Q6:118:ILE:HA	2:Q6:118:ILE:HD13	1.83	0.40
2:Y6:13:ASP:OD1	3:Z6:108:ARG:NE	2.49	0.40
8:Y7:61:LEU:HD23	8:Y7:61:LEU:HA	1.87	0.40
11:a7:1001:CYC:HAD2	11:a7:1001:CYC:HHA	1.91	0.40
11:L8:202:CYC:CBD	11:L8:202:CYC:CHA	2.86	0.40
2:O8:28:TYR:O	2:O8:31:LEU:HB2	2.21	0.40
2:O8:142:LEU:C	2:O8:147:ALA:HB2	2.46	0.40
3:P8:96:ALA:HB2	3:P8:105:LEU:HB2	2.03	0.40
3:R8:67:ILE:CB	2:S8:86:ARG:HH22	2.34	0.40
3:T8:143:MET:O	3:T8:143:MET:SD	2.79	0.40
2:U8:83:LYS:HZ1	11:U8:201:CYC:H2A	1.57	0.40
3:V8:34:GLY:HA2	3:V8:37:ARG:HB3	2.03	0.40
3:Z8:37:ARG:N	3:Z8:156:LEU:HD11	2.36	0.40
1:A1:203:PHE:HD2	8:p3:62:TYR:HE1	1.70	0.40
3:C1:43:ARG:NH1	3:C1:144:ASP:O	2.55	0.40
3:E1:113:LEU:HD23	3:E1:113:LEU:HA	1.93	0.40
3:I1:114:ARG:HH22	3:I1:172:GLU:HB2	1.85	0.40
2:L1:98:CYS:SG	2:L1:104:THR:HA	2.62	0.40
2:O1:24:LEU:HD12	11:P1:202:CYC:HBB2	1.92	0.40
1:A2:200:VAL:HA	7:N3:82:LEU:CD1	2.50	0.40
2:F2:146:ALA:O	2:F2:150:THR:OG1	2.32	0.40
3:K2:82:CYS:HB2	11:K2:201:CYC:HMD3	2.03	0.40
3:K2:153:CYS:SG	3:K2:153:CYS:O	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M2:120:LEU:HD22	11:M2:201:CYC:HBD1	2.03	0.40
2:O2:145:ASP:HB2	11:X2:202:CYC:HMA2	2.03	0.40
5:03:557:ILE:CD1	8:B7:83:ARG:HD2	2.51	0.40
7:K3:102:THR:O	7:K3:106:GLU:CB	2.59	0.40
9:Q3:35:ASN:O	9:Q3:39:THR:HG23	2.20	0.40
11:W3:1001:CYC:HHA	11:W3:1001:CYC:HAA2	1.92	0.40
7:b3:105:GLU:OE1	7:b3:155:TYR:OH	2.34	0.40
7:i3:92:ILE:HD13	7:i3:92:ILE:HA	1.92	0.40
7:k3:100:ASP:OD2	7:k3:101:VAL:N	2.52	0.40
7:k3:105:GLU:OE1	7:k3:155:TYR:OH	2.34	0.40
7:o3:82:LEU:HD11	1:A5:221:MET:O	2.21	0.40
8:x3:87:TYR:HE1	8:x3:90:ARG:HH21	1.69	0.40
11:z3:1001:CYC:HAC1	11:z3:1001:CYC:HHD	1.86	0.40
1:A4:65:LEU:HD11	3:I4:91:ARG:HH22	1.87	0.40
3:K4:34:GLY:HA2	3:K4:37:ARG:HB3	2.03	0.40
3:K4:38:SER:O	3:K4:41:VAL:HB	2.20	0.40
3:M4:22:ASP:HA	3:M4:25:GLU:HG3	2.02	0.40
4:N4:182:ILE:HD11	3:T4:115:GLU:HG2	2.02	0.40
2:Q4:24:LEU:HD12	2:U4:152:ASN:HD22	1.75	0.40
2:Q4:31:LEU:HD13	2:Q4:31:LEU:HA	1.84	0.40
2:Y4:134:LYS:HA	2:Y4:137:LYS:HD3	2.04	0.40
2:B5:5:LEU:HD21	2:B5:27:LEU:HD13	2.03	0.40
2:B5:157:ALA:O	2:B5:161:LEU:HB2	2.22	0.40
3:E5:66:LEU:HB3	3:E5:73:ALA:HB3	2.02	0.40
2:H5:130:VAL:HG13	2:H5:158:ILE:HG23	2.03	0.40
3:I5:79:MET:HE3	3:I5:83:LEU:HD11	2.03	0.40
4:N5:114:ILE:HD12	3:P5:77:ARG:NH2	2.27	0.40
2:U5:157:ALA:O	2:U5:161:LEU:HB2	2.22	0.40
3:V5:57:ARG:NH1	11:V5:202:CYC:H2D	2.07	0.40
2:B6:111:LEU:HD23	11:B6:201:CYC:CAB	2.12	0.40
3:E6:4:ILE:HD11	3:E6:100:GLY:HA3	2.03	0.40
3:K6:68:ALA:HB2	3:T6:65:GLN:NE2	2.24	0.40
3:M6:82:CYS:HB2	11:M6:201:CYC:HMD3	2.03	0.40
3:Z6:82:CYS:HB2	11:Z6:201:CYC:HMD3	2.03	0.40
3:Z6:153:CYS:O	3:Z6:153:CYS:SG	2.79	0.40
7:A7:50:ILE:HG12	7:A7:136:VAL:HG12	2.02	0.40
6:G7:7:THR:HG22	6:G7:52:LYS:HB2	2.04	0.40
7:Q7:52:LYS:HA	7:Q7:52:LYS:HD2	1.96	0.40
7:X7:50:ILE:HG12	7:X7:136:VAL:HG12	2.02	0.40
1:A8:57:ALA:HB1	1:A8:61:ASP:HB2	2.04	0.40
2:B8:19:LEU:HD22	3:C8:95:TYR:HE1	1.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B8:28:TYR:O	2:B8:31:LEU:HB2	2.21	0.40
3:C8:40:ALA:HB1	3:C8:156:LEU:CD1	2.26	0.40
2:F8:28:TYR:HB2	2:J8:32:ARG:HD3	2.01	0.40
2:J8:31:LEU:HD13	2:J8:31:LEU:HA	1.84	0.40
3:K8:153:CYS:CB	11:K8:202:CYC:CAC	2.99	0.40
11:L8:202:CYC:HMB2	3:M8:39:ASP:OD2	2.21	0.40
3:P8:24:LEU:HA	3:P8:24:LEU:HD23	1.81	0.40
3:T8:37:ARG:CA	3:T8:156:LEU:HD11	2.52	0.40
11:V8:202:CYC:CBD	11:V8:202:CYC:CHA	2.85	0.40
3:X8:131:VAL:HA	3:X8:134:MET:HE2	2.02	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	223/248 (90%)	205 (92%)	17 (8%)	1 (0%)	30	64
1	A2	226/248 (91%)	216 (96%)	10 (4%)	0	100	100
1	A4	223/248 (90%)	210 (94%)	12 (5%)	1 (0%)	30	64
1	A5	223/248 (90%)	205 (92%)	17 (8%)	1 (0%)	30	64
1	A6	226/248 (91%)	217 (96%)	9 (4%)	0	100	100
1	A8	223/248 (90%)	210 (94%)	12 (5%)	1 (0%)	30	64
2	B1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	B2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	B4	160/162 (99%)	160 (100%)	0	0	100	100
2	B5	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	B6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	B8	160/162 (99%)	160 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	D1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	D2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	D4	160/162 (99%)	160 (100%)	0	0	100	100
2	D5	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	D6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	D8	160/162 (99%)	160 (100%)	0	0	100	100
2	F1	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	F2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	F4	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	F5	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	F6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	F8	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	H1	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	H2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	H4	160/162 (99%)	160 (100%)	0	0	100	100
2	H5	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	H6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	H8	160/162 (99%)	160 (100%)	0	0	100	100
2	J1	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	J2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	J4	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	J5	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	J6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	J8	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	L1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	L2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	L4	160/162 (99%)	160 (100%)	0	0	100	100
2	L5	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	L6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	L8	160/162 (99%)	160 (100%)	0	0	100	100
2	O1	159/162 (98%)	157 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	O2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	O4	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	O5	159/162 (98%)	157 (99%)	2 (1%)	0	100	100
2	O6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	O8	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	Q1	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	Q2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	Q4	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	Q5	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	Q6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	Q8	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	S1	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	S2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	S4	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	S5	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	S6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	S8	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	U1	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	U2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	U4	160/162 (99%)	160 (100%)	0	0	100	100
2	U5	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	U6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	U8	160/162 (99%)	160 (100%)	0	0	100	100
2	W1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	W2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	W4	160/162 (99%)	160 (100%)	0	0	100	100
2	W5	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	W6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	W8	160/162 (99%)	160 (100%)	0	0	100	100
2	Y1	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	Y2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	Y4	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	Y5	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	Y6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
2	Y8	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
3	C1	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	C2	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	11	43
3	C4	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	C5	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	C6	170/172 (99%)	165 (97%)	3 (2%)	2 (1%)	11	43
3	C8	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	E1	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	E2	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	22	56
3	E4	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	E5	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	E6	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	22	56
3	E8	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	G1	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	G2	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	G4	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	G5	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	G6	170/172 (99%)	169 (99%)	0	1 (1%)	22	56
3	G8	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	I1	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	I2	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	22	56
3	I4	170/172 (99%)	166 (98%)	4 (2%)	0	100	100
3	I5	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	I6	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	22	56
3	I8	170/172 (99%)	166 (98%)	4 (2%)	0	100	100
3	K1	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	K2	170/172 (99%)	169 (99%)	0	1 (1%)	22	56
3	K4	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	K5	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	K6	170/172 (99%)	169 (99%)	0	1 (1%)	22	56
3	K8	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	M1	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	M2	170/172 (99%)	169 (99%)	0	1 (1%)	22	56
3	M4	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	M5	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	M6	170/172 (99%)	169 (99%)	0	1 (1%)	22	56
3	M8	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	P1	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	P2	170/172 (99%)	166 (98%)	2 (1%)	2 (1%)	11	43
3	P4	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	P5	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	P6	170/172 (99%)	166 (98%)	2 (1%)	2 (1%)	11	43
3	P8	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	R1	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	R2	170/172 (99%)	169 (99%)	0	1 (1%)	22	56
3	R4	170/172 (99%)	166 (98%)	3 (2%)	1 (1%)	22	56
3	R5	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	R6	170/172 (99%)	169 (99%)	0	1 (1%)	22	56
3	R8	170/172 (99%)	166 (98%)	3 (2%)	1 (1%)	22	56
3	T1	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	T2	170/172 (99%)	169 (99%)	0	1 (1%)	22	56
3	T4	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	T5	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	T6	170/172 (99%)	169 (99%)	0	1 (1%)	22	56
3	T8	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	V1	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
3	V2	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	V4	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22	56
3	V5	170/172 (99%)	168 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	V6	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22 56
3	V8	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22 56
3	X1	170/172 (99%)	168 (99%)	2 (1%)	0	100 100
3	X2	170/172 (99%)	167 (98%)	1 (1%)	2 (1%)	11 43
3	X4	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22 56
3	X5	170/172 (99%)	168 (99%)	2 (1%)	0	100 100
3	X6	170/172 (99%)	167 (98%)	1 (1%)	2 (1%)	11 43
3	X8	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22 56
3	Z1	170/172 (99%)	168 (99%)	2 (1%)	0	100 100
3	Z2	170/172 (99%)	169 (99%)	0	1 (1%)	22 56
3	Z4	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22 56
3	Z5	170/172 (99%)	168 (99%)	2 (1%)	0	100 100
3	Z6	170/172 (99%)	169 (99%)	0	1 (1%)	22 56
3	Z8	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	22 56
4	N1	287/290 (99%)	273 (95%)	13 (4%)	1 (0%)	37 68
4	N2	287/290 (99%)	276 (96%)	11 (4%)	0	100 100
4	N4	287/290 (99%)	272 (95%)	14 (5%)	1 (0%)	37 68
4	N5	287/290 (99%)	273 (95%)	13 (4%)	1 (0%)	37 68
4	N6	287/290 (99%)	276 (96%)	11 (4%)	0	100 100
4	N8	287/290 (99%)	272 (95%)	14 (5%)	1 (0%)	37 68
4	a1	62/290 (21%)	55 (89%)	7 (11%)	0	100 100
4	a2	62/290 (21%)	57 (92%)	4 (6%)	1 (2%)	8 38
4	a4	59/290 (20%)	54 (92%)	4 (7%)	1 (2%)	7 36
4	a5	62/290 (21%)	55 (89%)	7 (11%)	0	100 100
4	a6	62/290 (21%)	57 (92%)	4 (6%)	1 (2%)	8 38
4	a8	59/290 (20%)	54 (92%)	4 (7%)	1 (2%)	7 36
5	03	822/886 (93%)	773 (94%)	49 (6%)	0	100 100
5	13	822/886 (93%)	767 (93%)	54 (7%)	1 (0%)	48 79
6	23	63/67 (94%)	60 (95%)	3 (5%)	0	100 100
6	33	63/67 (94%)	60 (95%)	3 (5%)	0	100 100
6	G7	63/67 (94%)	60 (95%)	3 (5%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	N7	64/67 (96%)	59 (92%)	5 (8%)	0	100	100
6	U7	63/67 (94%)	61 (97%)	2 (3%)	0	100	100
6	b7	63/67 (94%)	61 (97%)	2 (3%)	0	100	100
7	A7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	C7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	E7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	G3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	H7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	I3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	J7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	K3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	L7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	N3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	O7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	P3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	Q7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	R3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	S7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	T3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	V7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	X3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	X7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	Z3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	Z7	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
7	b3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	d3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	f3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	i3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	k3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	o3	158/161 (98%)	152 (96%)	5 (3%)	1 (1%)	22	56
7	q3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	s3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	u3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	w3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
7	y3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
8	B7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	D7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	F7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	H3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	I7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	J3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	K7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	L3	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
8	M3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	M7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	O3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	P7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	R7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	S3	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
8	T7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	U3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	W3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	W7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	Y3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	Y7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	a3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	a7	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
8	c3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	e3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	h3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	j3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	l3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	n3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	p3	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
8	r3	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
8	t3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	v3	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
8	x3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
8	z3	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
9	Q3	167/169 (99%)	156 (93%)	11 (7%)	0	100	100
9	g3	167/169 (99%)	156 (93%)	11 (7%)	0	100	100
10	V3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
10	m3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
All	All	40325/42476 (95%)	39326 (98%)	933 (2%)	66 (0%)	45	75

All (66) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A1	210	PRO
3	C2	154	SER
7	o3	75	GLU
1	A4	37	ILE
1	A5	210	PRO
1	A8	37	ILE
3	G2	154	SER
3	T2	145	PRO
3	X2	147	GLY
4	N4	3	VAL
3	T6	145	PRO
3	X6	147	GLY
4	N8	3	VAL
3	C2	37	ARG
3	I2	145	PRO
3	P2	37	ARG
3	P2	145	PRO
3	G4	145	PRO
3	K4	145	PRO
3	X4	145	PRO
3	C6	37	ARG
3	I6	145	PRO

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Mol	Chain	Res	Type
3	P6	37	ARG
3	P6	145	PRO
3	G8	145	PRO
3	K8	145	PRO
3	X8	145	PRO
3	K2	145	PRO
3	V2	145	PRO
5	13	718	LEU
3	C4	145	PRO
3	E4	145	PRO
3	P4	145	PRO
3	R4	145	PRO
3	T4	145	PRO
4	a4	252	PRO
3	K6	145	PRO
3	V6	145	PRO
3	C8	145	PRO
3	E8	145	PRO
3	P8	145	PRO
3	R8	145	PRO
3	T8	145	PRO
4	a8	252	PRO
3	M2	145	PRO
3	X2	145	PRO
3	M4	145	PRO
3	V4	145	PRO
3	G6	145	PRO
3	M6	145	PRO
3	X6	145	PRO
3	M8	145	PRO
3	V8	145	PRO
4	N1	250	ARG
3	R2	145	PRO
3	Z4	145	PRO
4	N5	250	ARG
3	C6	145	PRO
3	E6	145	PRO
3	R6	145	PRO
3	Z8	145	PRO
3	E2	145	PRO
3	Z2	145	PRO
3	Z6	145	PRO

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Mol	Chain	Res	Type
4	a2	252	PRO
4	a6	252	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	199/218 (91%)	196 (98%)	3 (2%)	60 77
1	A2	202/218 (93%)	196 (97%)	6 (3%)	36 63
1	A4	199/218 (91%)	197 (99%)	2 (1%)	73 84
1	A5	199/218 (91%)	196 (98%)	3 (2%)	60 77
1	A6	202/218 (93%)	195 (96%)	7 (4%)	31 59
1	A8	199/218 (91%)	196 (98%)	3 (2%)	60 77
2	B1	126/126 (100%)	115 (91%)	11 (9%)	8 31
2	B2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	B4	126/126 (100%)	110 (87%)	16 (13%)	3 18
2	B5	126/126 (100%)	115 (91%)	11 (9%)	8 31
2	B6	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	B8	126/126 (100%)	111 (88%)	15 (12%)	4 21
2	D1	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	D2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	D4	126/126 (100%)	109 (86%)	17 (14%)	3 18
2	D5	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	D6	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	D8	126/126 (100%)	110 (87%)	16 (13%)	3 18
2	F1	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	F2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	F4	126/126 (100%)	110 (87%)	16 (13%)	3 18
2	F5	126/126 (100%)	116 (92%)	10 (8%)	10 34

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	F6	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	F8	126/126 (100%)	110 (87%)	16 (13%)	3 18
2	H1	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	H2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	H4	126/126 (100%)	111 (88%)	15 (12%)	4 21
2	H5	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	H6	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	H8	126/126 (100%)	111 (88%)	15 (12%)	4 21
2	J1	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	J2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	J4	126/126 (100%)	110 (87%)	16 (13%)	3 18
2	J5	126/126 (100%)	115 (91%)	11 (9%)	8 31
2	J6	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	J8	126/126 (100%)	110 (87%)	16 (13%)	3 18
2	L1	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	L2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	L4	126/126 (100%)	112 (89%)	14 (11%)	5 23
2	L5	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	L6	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	L8	126/126 (100%)	111 (88%)	15 (12%)	4 21
2	O1	125/126 (99%)	115 (92%)	10 (8%)	10 34
2	O2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	O4	126/126 (100%)	110 (87%)	16 (13%)	3 18
2	O5	125/126 (99%)	115 (92%)	10 (8%)	10 34
2	O6	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	O8	126/126 (100%)	110 (87%)	16 (13%)	3 18
2	Q1	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	Q2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	Q4	126/126 (100%)	111 (88%)	15 (12%)	4 21
2	Q5	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	Q6	126/126 (100%)	107 (85%)	19 (15%)	2 14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	Q8	126/126 (100%)	111 (88%)	15 (12%)	4 21
2	S1	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	S2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	S4	126/126 (100%)	112 (89%)	14 (11%)	5 23
2	S5	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	S6	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	S8	126/126 (100%)	112 (89%)	14 (11%)	5 23
2	U1	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	U2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	U4	126/126 (100%)	112 (89%)	14 (11%)	5 23
2	U5	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	U6	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	U8	126/126 (100%)	112 (89%)	14 (11%)	5 23
2	W1	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	W2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	W4	126/126 (100%)	112 (89%)	14 (11%)	5 23
2	W5	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	W6	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	W8	126/126 (100%)	112 (89%)	14 (11%)	5 23
2	Y1	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	Y2	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	Y4	126/126 (100%)	111 (88%)	15 (12%)	4 21
2	Y5	126/126 (100%)	116 (92%)	10 (8%)	10 34
2	Y6	126/126 (100%)	107 (85%)	19 (15%)	2 14
2	Y8	126/126 (100%)	111 (88%)	15 (12%)	4 21
3	C1	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	C2	133/133 (100%)	112 (84%)	21 (16%)	2 13
3	C4	133/133 (100%)	120 (90%)	13 (10%)	6 27
3	C5	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	C6	133/133 (100%)	112 (84%)	21 (16%)	2 13
3	C8	133/133 (100%)	122 (92%)	11 (8%)	9 32

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	E1	133/133 (100%)	122 (92%)	11 (8%)	9	32
3	E2	133/133 (100%)	113 (85%)	20 (15%)	2	14
3	E4	133/133 (100%)	121 (91%)	12 (9%)	8	30
3	E5	133/133 (100%)	122 (92%)	11 (8%)	9	32
3	E6	133/133 (100%)	113 (85%)	20 (15%)	2	14
3	E8	133/133 (100%)	121 (91%)	12 (9%)	8	30
3	G1	133/133 (100%)	122 (92%)	11 (8%)	9	32
3	G2	133/133 (100%)	115 (86%)	18 (14%)	3	18
3	G4	133/133 (100%)	120 (90%)	13 (10%)	6	27
3	G5	133/133 (100%)	122 (92%)	11 (8%)	9	32
3	G6	133/133 (100%)	115 (86%)	18 (14%)	3	18
3	G8	133/133 (100%)	120 (90%)	13 (10%)	6	27
3	I1	133/133 (100%)	122 (92%)	11 (8%)	9	32
3	I2	133/133 (100%)	115 (86%)	18 (14%)	3	18
3	I4	133/133 (100%)	120 (90%)	13 (10%)	6	27
3	I5	133/133 (100%)	122 (92%)	11 (8%)	9	32
3	I6	133/133 (100%)	115 (86%)	18 (14%)	3	18
3	I8	133/133 (100%)	120 (90%)	13 (10%)	6	27
3	K1	133/133 (100%)	122 (92%)	11 (8%)	9	32
3	K2	133/133 (100%)	117 (88%)	16 (12%)	4	20
3	K4	133/133 (100%)	120 (90%)	13 (10%)	6	27
3	K5	133/133 (100%)	122 (92%)	11 (8%)	9	32
3	K6	133/133 (100%)	117 (88%)	16 (12%)	4	20
3	K8	133/133 (100%)	120 (90%)	13 (10%)	6	27
3	M1	133/133 (100%)	122 (92%)	11 (8%)	9	32
3	M2	133/133 (100%)	116 (87%)	17 (13%)	3	18
3	M4	133/133 (100%)	121 (91%)	12 (9%)	8	30
3	M5	133/133 (100%)	122 (92%)	11 (8%)	9	32
3	M6	133/133 (100%)	116 (87%)	17 (13%)	3	18
3	M8	133/133 (100%)	121 (91%)	12 (9%)	8	30
3	P1	133/133 (100%)	122 (92%)	11 (8%)	9	32

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	P2	133/133 (100%)	112 (84%)	21 (16%)	2 13
3	P4	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	P5	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	P6	133/133 (100%)	112 (84%)	21 (16%)	2 13
3	P8	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	R1	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	R2	133/133 (100%)	114 (86%)	19 (14%)	2 16
3	R4	133/133 (100%)	123 (92%)	10 (8%)	11 35
3	R5	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	R6	133/133 (100%)	114 (86%)	19 (14%)	2 16
3	R8	133/133 (100%)	123 (92%)	10 (8%)	11 35
3	T1	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	T2	133/133 (100%)	115 (86%)	18 (14%)	3 18
3	T4	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	T5	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	T6	133/133 (100%)	115 (86%)	18 (14%)	3 18
3	T8	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	V1	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	V2	133/133 (100%)	114 (86%)	19 (14%)	2 16
3	V4	133/133 (100%)	123 (92%)	10 (8%)	11 35
3	V5	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	V6	133/133 (100%)	114 (86%)	19 (14%)	2 16
3	V8	133/133 (100%)	123 (92%)	10 (8%)	11 35
3	X1	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	X2	133/133 (100%)	115 (86%)	18 (14%)	3 18
3	X4	133/133 (100%)	123 (92%)	10 (8%)	11 35
3	X5	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	X6	133/133 (100%)	115 (86%)	18 (14%)	3 18
3	X8	133/133 (100%)	123 (92%)	10 (8%)	11 35
3	Z1	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	Z2	133/133 (100%)	113 (85%)	20 (15%)	2 14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	Z4	133/133 (100%)	121 (91%)	12 (9%)	8 30
3	Z5	133/133 (100%)	122 (92%)	11 (8%)	9 32
3	Z6	133/133 (100%)	113 (85%)	20 (15%)	2 14
3	Z8	133/133 (100%)	121 (91%)	12 (9%)	8 30
4	N1	239/240 (100%)	238 (100%)	1 (0%)	89 95
4	N2	239/240 (100%)	220 (92%)	19 (8%)	10 34
4	N4	239/240 (100%)	237 (99%)	2 (1%)	79 88
4	N5	239/240 (100%)	238 (100%)	1 (0%)	89 95
4	N6	239/240 (100%)	220 (92%)	19 (8%)	10 34
4	N8	239/240 (100%)	237 (99%)	2 (1%)	79 88
4	a1	54/240 (22%)	54 (100%)	0	100 100
4	a2	54/240 (22%)	52 (96%)	2 (4%)	29 58
4	a4	52/240 (22%)	51 (98%)	1 (2%)	52 73
4	a5	54/240 (22%)	54 (100%)	0	100 100
4	a6	54/240 (22%)	52 (96%)	2 (4%)	29 58
4	a8	52/240 (22%)	51 (98%)	1 (2%)	52 73
5	03	704/745 (94%)	634 (90%)	70 (10%)	6 27
5	13	704/745 (94%)	633 (90%)	71 (10%)	6 26
6	23	58/60 (97%)	57 (98%)	1 (2%)	56 75
6	33	58/60 (97%)	57 (98%)	1 (2%)	56 75
6	G7	58/60 (97%)	51 (88%)	7 (12%)	4 20
6	N7	59/60 (98%)	57 (97%)	2 (3%)	32 60
6	U7	58/60 (97%)	54 (93%)	4 (7%)	13 39
6	b7	58/60 (97%)	56 (97%)	2 (3%)	32 60
7	A7	124/125 (99%)	103 (83%)	21 (17%)	1 10
7	C7	124/125 (99%)	104 (84%)	20 (16%)	2 12
7	E7	124/125 (99%)	104 (84%)	20 (16%)	2 12
7	G3	124/125 (99%)	106 (86%)	18 (14%)	2 15
7	H7	124/125 (99%)	103 (83%)	21 (17%)	1 10
7	I3	124/125 (99%)	106 (86%)	18 (14%)	2 15
7	J7	124/125 (99%)	104 (84%)	20 (16%)	2 12

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	K3	124/125 (99%)	105 (85%)	19 (15%)	2	14
7	L7	124/125 (99%)	104 (84%)	20 (16%)	2	12
7	N3	124/125 (99%)	106 (86%)	18 (14%)	2	15
7	O7	124/125 (99%)	103 (83%)	21 (17%)	1	10
7	P3	124/125 (99%)	106 (86%)	18 (14%)	2	15
7	Q7	124/125 (99%)	104 (84%)	20 (16%)	2	12
7	R3	124/125 (99%)	106 (86%)	18 (14%)	2	15
7	S7	124/125 (99%)	103 (83%)	21 (17%)	1	10
7	T3	124/125 (99%)	106 (86%)	18 (14%)	2	15
7	V7	124/125 (99%)	104 (84%)	20 (16%)	2	12
7	X3	124/125 (99%)	105 (85%)	19 (15%)	2	14
7	X7	124/125 (99%)	104 (84%)	20 (16%)	2	12
7	Z3	124/125 (99%)	105 (85%)	19 (15%)	2	14
7	Z7	124/125 (99%)	104 (84%)	20 (16%)	2	12
7	b3	124/125 (99%)	106 (86%)	18 (14%)	2	15
7	d3	124/125 (99%)	106 (86%)	18 (14%)	2	15
7	f3	124/125 (99%)	106 (86%)	18 (14%)	2	15
7	i3	124/125 (99%)	106 (86%)	18 (14%)	2	15
7	k3	124/125 (99%)	106 (86%)	18 (14%)	2	15
7	o3	124/125 (99%)	107 (86%)	17 (14%)	3	17
7	q3	124/125 (99%)	103 (83%)	21 (17%)	1	10
7	s3	124/125 (99%)	106 (86%)	18 (14%)	2	15
7	u3	124/125 (99%)	105 (85%)	19 (15%)	2	14
7	w3	124/125 (99%)	104 (84%)	20 (16%)	2	12
7	y3	124/125 (99%)	106 (86%)	18 (14%)	2	15
8	B7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	D7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	F7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	H3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	I7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	J3	124/124 (100%)	109 (88%)	15 (12%)	4	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	K7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	L3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	M3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	M7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	O3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	P7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	R7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	S3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	T7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	U3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	W3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	W7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	Y3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	Y7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	a3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	a7	124/124 (100%)	105 (85%)	19 (15%)	2	14
8	c3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	e3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	h3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	j3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	l3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	n3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	p3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	r3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	t3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	v3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	x3	124/124 (100%)	109 (88%)	15 (12%)	4	20
8	z3	124/124 (100%)	109 (88%)	15 (12%)	4	20
9	Q3	136/136 (100%)	129 (95%)	7 (5%)	20	48
9	g3	136/136 (100%)	129 (95%)	7 (5%)	20	48
10	V3	129/130 (99%)	114 (88%)	15 (12%)	4	21

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
10	m3	129/130 (99%)	114 (88%)	15 (12%)	4 21
All	All	32071/33434 (96%)	28571 (89%)	3500 (11%)	8 24

All (3500) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A1	202	ARG
1	A1	203	PHE
1	A1	204	ARG
2	B1	43	THR
2	B1	53	ASN
2	B1	62	LYS
2	B1	66	THR
2	B1	67	THR
2	B1	73	ASN
2	B1	88	ILE
2	B1	136	ILE
2	B1	143	THR
2	B1	145	ASP
2	B1	155	ASP
3	C1	49	SER
3	C1	75	THR
3	C1	89	ILE
3	C1	111	ASN
3	C1	126	SER
3	C1	127	VAL
3	C1	149	THR
3	C1	154	SER
3	C1	160	ILE
3	C1	166	THR
3	C1	172	GLU
2	D1	43	THR
2	D1	53	ASN
2	D1	62	LYS
2	D1	66	THR
2	D1	67	THR
2	D1	73	ASN
2	D1	88	ILE
2	D1	136	ILE
2	D1	143	THR
2	D1	155	ASP
3	E1	49	SER

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Mol	Chain	Res	Type
3	E1	75	THR
3	E1	89	ILE
3	E1	111	ASN
3	E1	126	SER
3	E1	127	VAL
3	E1	149	THR
3	E1	154	SER
3	E1	160	ILE
3	E1	166	THR
3	E1	172	GLU
2	F1	43	THR
2	F1	53	ASN
2	F1	62	LYS
2	F1	66	THR
2	F1	67	THR
2	F1	73	ASN
2	F1	88	ILE
2	F1	136	ILE
2	F1	143	THR
2	F1	155	ASP
3	G1	49	SER
3	G1	75	THR
3	G1	89	ILE
3	G1	111	ASN
3	G1	126	SER
3	G1	127	VAL
3	G1	149	THR
3	G1	154	SER
3	G1	160	ILE
3	G1	166	THR
3	G1	172	GLU
2	H1	43	THR
2	H1	53	ASN
2	H1	62	LYS
2	H1	66	THR
2	H1	67	THR
2	H1	73	ASN
2	H1	88	ILE
2	H1	136	ILE
2	H1	143	THR
2	H1	155	ASP
3	I1	49	SER

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Mol	Chain	Res	Type
3	I1	75	THR
3	I1	89	ILE
3	I1	111	ASN
3	I1	126	SER
3	I1	127	VAL
3	I1	149	THR
3	I1	154	SER
3	I1	160	ILE
3	I1	166	THR
3	I1	172	GLU
2	J1	43	THR
2	J1	53	ASN
2	J1	62	LYS
2	J1	66	THR
2	J1	67	THR
2	J1	73	ASN
2	J1	88	ILE
2	J1	136	ILE
2	J1	143	THR
2	J1	155	ASP
3	K1	49	SER
3	K1	75	THR
3	K1	89	ILE
3	K1	111	ASN
3	K1	126	SER
3	K1	127	VAL
3	K1	149	THR
3	K1	154	SER
3	K1	160	ILE
3	K1	166	THR
3	K1	172	GLU
2	L1	43	THR
2	L1	53	ASN
2	L1	62	LYS
2	L1	66	THR
2	L1	67	THR
2	L1	73	ASN
2	L1	88	ILE
2	L1	136	ILE
2	L1	143	THR
2	L1	155	ASP
3	M1	49	SER

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Mol	Chain	Res	Type
3	M1	75	THR
3	M1	89	ILE
3	M1	111	ASN
3	M1	126	SER
3	M1	127	VAL
3	M1	149	THR
3	M1	154	SER
3	M1	160	ILE
3	M1	166	THR
3	M1	172	GLU
4	N1	12	THR
2	O1	43	THR
2	O1	53	ASN
2	O1	62	LYS
2	O1	66	THR
2	O1	67	THR
2	O1	73	ASN
2	O1	88	ILE
2	O1	136	ILE
2	O1	143	THR
2	O1	155	ASP
3	P1	49	SER
3	P1	75	THR
3	P1	89	ILE
3	P1	111	ASN
3	P1	126	SER
3	P1	127	VAL
3	P1	149	THR
3	P1	154	SER
3	P1	160	ILE
3	P1	166	THR
3	P1	172	GLU
2	Q1	43	THR
2	Q1	53	ASN
2	Q1	62	LYS
2	Q1	66	THR
2	Q1	67	THR
2	Q1	73	ASN
2	Q1	88	ILE
2	Q1	136	ILE
2	Q1	143	THR
2	Q1	155	ASP

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Mol	Chain	Res	Type
3	R1	49	SER
3	R1	75	THR
3	R1	89	ILE
3	R1	111	ASN
3	R1	126	SER
3	R1	127	VAL
3	R1	149	THR
3	R1	154	SER
3	R1	160	ILE
3	R1	166	THR
3	R1	172	GLU
2	S1	43	THR
2	S1	53	ASN
2	S1	62	LYS
2	S1	66	THR
2	S1	67	THR
2	S1	73	ASN
2	S1	88	ILE
2	S1	136	ILE
2	S1	143	THR
2	S1	155	ASP
3	T1	49	SER
3	T1	75	THR
3	T1	89	ILE
3	T1	111	ASN
3	T1	126	SER
3	T1	127	VAL
3	T1	149	THR
3	T1	154	SER
3	T1	160	ILE
3	T1	166	THR
3	T1	172	GLU
2	U1	43	THR
2	U1	53	ASN
2	U1	62	LYS
2	U1	66	THR
2	U1	67	THR
2	U1	73	ASN
2	U1	88	ILE
2	U1	136	ILE
2	U1	143	THR
2	U1	155	ASP

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Mol	Chain	Res	Type
3	V1	49	SER
3	V1	75	THR
3	V1	89	ILE
3	V1	111	ASN
3	V1	126	SER
3	V1	127	VAL
3	V1	149	THR
3	V1	154	SER
3	V1	160	ILE
3	V1	166	THR
3	V1	172	GLU
2	W1	43	THR
2	W1	53	ASN
2	W1	62	LYS
2	W1	66	THR
2	W1	67	THR
2	W1	73	ASN
2	W1	88	ILE
2	W1	136	ILE
2	W1	143	THR
2	W1	155	ASP
3	X1	49	SER
3	X1	75	THR
3	X1	89	ILE
3	X1	111	ASN
3	X1	126	SER
3	X1	127	VAL
3	X1	149	THR
3	X1	154	SER
3	X1	160	ILE
3	X1	166	THR
3	X1	172	GLU
2	Y1	43	THR
2	Y1	53	ASN
2	Y1	62	LYS
2	Y1	66	THR
2	Y1	67	THR
2	Y1	73	ASN
2	Y1	88	ILE
2	Y1	136	ILE
2	Y1	143	THR
2	Y1	155	ASP

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Mol	Chain	Res	Type
3	Z1	49	SER
3	Z1	75	THR
3	Z1	89	ILE
3	Z1	111	ASN
3	Z1	126	SER
3	Z1	127	VAL
3	Z1	149	THR
3	Z1	154	SER
3	Z1	160	ILE
3	Z1	166	THR
3	Z1	172	GLU
1	A2	21	THR
1	A2	22	VAL
1	A2	37	ILE
1	A2	77	VAL
1	A2	182	ASP
1	A2	191	PHE
2	B2	43	THR
2	B2	44	LEU
2	B2	50	THR
2	B2	59	VAL
2	B2	66	THR
2	B2	67	THR
2	B2	68	SER
2	B2	69	THR
2	B2	82	ASP
2	B2	84	CYS
2	B2	99	LEU
2	B2	107	MET
2	B2	108	ASP
2	B2	121	THR
2	B2	123	ASP
2	B2	125	SER
2	B2	143	THR
2	B2	149	GLU
2	B2	155	ASP
3	C2	3	ASP
3	C2	17	GLU
3	C2	29	LYS
3	C2	31	VAL
3	C2	36	LYS
3	C2	37	ARG

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Mol	Chain	Res	Type
3	C2	38	SER
3	C2	45	THR
3	C2	49	SER
3	C2	62	ASP
3	C2	77	ARG
3	C2	104	VAL
3	C2	107	ASP
3	C2	111	ASN
3	C2	113	LEU
3	C2	141	ILE
3	C2	142	VAL
3	C2	153	CYS
3	C2	156	LEU
3	C2	166	THR
3	C2	172	GLU
2	D2	43	THR
2	D2	44	LEU
2	D2	50	THR
2	D2	59	VAL
2	D2	66	THR
2	D2	67	THR
2	D2	68	SER
2	D2	69	THR
2	D2	82	ASP
2	D2	84	CYS
2	D2	99	LEU
2	D2	107	MET
2	D2	108	ASP
2	D2	121	THR
2	D2	123	ASP
2	D2	125	SER
2	D2	143	THR
2	D2	149	GLU
2	D2	155	ASP
3	E2	3	ASP
3	E2	17	GLU
3	E2	29	LYS
3	E2	31	VAL
3	E2	37	ARG
3	E2	38	SER
3	E2	45	THR
3	E2	49	SER

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Mol	Chain	Res	Type
3	E2	62	ASP
3	E2	77	ARG
3	E2	104	VAL
3	E2	107	ASP
3	E2	111	ASN
3	E2	113	LEU
3	E2	141	ILE
3	E2	142	VAL
3	E2	148	VAL
3	E2	156	LEU
3	E2	166	THR
3	E2	172	GLU
2	F2	43	THR
2	F2	44	LEU
2	F2	50	THR
2	F2	59	VAL
2	F2	66	THR
2	F2	67	THR
2	F2	68	SER
2	F2	69	THR
2	F2	82	ASP
2	F2	84	CYS
2	F2	99	LEU
2	F2	107	MET
2	F2	108	ASP
2	F2	121	THR
2	F2	123	ASP
2	F2	125	SER
2	F2	143	THR
2	F2	149	GLU
2	F2	155	ASP
3	G2	3	ASP
3	G2	17	GLU
3	G2	29	LYS
3	G2	31	VAL
3	G2	37	ARG
3	G2	45	THR
3	G2	49	SER
3	G2	62	ASP
3	G2	77	ARG
3	G2	104	VAL
3	G2	107	ASP

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Mol	Chain	Res	Type
3	G2	111	ASN
3	G2	113	LEU
3	G2	141	ILE
3	G2	142	VAL
3	G2	156	LEU
3	G2	166	THR
3	G2	172	GLU
2	H2	43	THR
2	H2	44	LEU
2	H2	50	THR
2	H2	59	VAL
2	H2	66	THR
2	H2	67	THR
2	H2	68	SER
2	H2	69	THR
2	H2	82	ASP
2	H2	84	CYS
2	H2	99	LEU
2	H2	107	MET
2	H2	108	ASP
2	H2	121	THR
2	H2	123	ASP
2	H2	125	SER
2	H2	143	THR
2	H2	149	GLU
2	H2	155	ASP
3	I2	3	ASP
3	I2	17	GLU
3	I2	29	LYS
3	I2	31	VAL
3	I2	37	ARG
3	I2	45	THR
3	I2	49	SER
3	I2	57	ARG
3	I2	62	ASP
3	I2	77	ARG
3	I2	104	VAL
3	I2	107	ASP
3	I2	113	LEU
3	I2	141	ILE
3	I2	142	VAL
3	I2	156	LEU

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Mol	Chain	Res	Type
3	I2	166	THR
3	I2	172	GLU
2	J2	43	THR
2	J2	44	LEU
2	J2	50	THR
2	J2	59	VAL
2	J2	66	THR
2	J2	67	THR
2	J2	68	SER
2	J2	69	THR
2	J2	82	ASP
2	J2	84	CYS
2	J2	99	LEU
2	J2	107	MET
2	J2	108	ASP
2	J2	121	THR
2	J2	123	ASP
2	J2	125	SER
2	J2	143	THR
2	J2	149	GLU
2	J2	155	ASP
3	K2	3	ASP
3	K2	17	GLU
3	K2	29	LYS
3	K2	31	VAL
3	K2	45	THR
3	K2	49	SER
3	K2	62	ASP
3	K2	77	ARG
3	K2	104	VAL
3	K2	107	ASP
3	K2	111	ASN
3	K2	113	LEU
3	K2	141	ILE
3	K2	142	VAL
3	K2	166	THR
3	K2	172	GLU
2	L2	43	THR
2	L2	44	LEU
2	L2	50	THR
2	L2	59	VAL
2	L2	66	THR

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Mol	Chain	Res	Type
2	L2	67	THR
2	L2	68	SER
2	L2	69	THR
2	L2	82	ASP
2	L2	84	CYS
2	L2	99	LEU
2	L2	107	MET
2	L2	108	ASP
2	L2	121	THR
2	L2	123	ASP
2	L2	125	SER
2	L2	143	THR
2	L2	149	GLU
2	L2	155	ASP
3	M2	3	ASP
3	M2	17	GLU
3	M2	29	LYS
3	M2	31	VAL
3	M2	37	ARG
3	M2	45	THR
3	M2	49	SER
3	M2	62	ASP
3	M2	77	ARG
3	M2	104	VAL
3	M2	107	ASP
3	M2	109	CYS
3	M2	113	LEU
3	M2	141	ILE
3	M2	142	VAL
3	M2	166	THR
3	M2	172	GLU
4	N2	4	THR
4	N2	5	VAL
4	N2	20	VAL
4	N2	48	VAL
4	N2	54	LEU
4	N2	80	LEU
4	N2	113	VAL
4	N2	131	SER
4	N2	150	ILE
4	N2	152	SER
4	N2	162	VAL

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Mol	Chain	Res	Type
4	N2	182	ILE
4	N2	201	VAL
4	N2	202	VAL
4	N2	218	ASP
4	N2	226	LEU
4	N2	257	SER
4	N2	260	VAL
4	N2	275	ILE
2	O2	43	THR
2	O2	44	LEU
2	O2	50	THR
2	O2	59	VAL
2	O2	66	THR
2	O2	67	THR
2	O2	68	SER
2	O2	69	THR
2	O2	82	ASP
2	O2	84	CYS
2	O2	99	LEU
2	O2	107	MET
2	O2	108	ASP
2	O2	121	THR
2	O2	123	ASP
2	O2	125	SER
2	O2	143	THR
2	O2	149	GLU
2	O2	155	ASP
3	P2	3	ASP
3	P2	17	GLU
3	P2	29	LYS
3	P2	31	VAL
3	P2	36	LYS
3	P2	37	ARG
3	P2	38	SER
3	P2	45	THR
3	P2	49	SER
3	P2	62	ASP
3	P2	77	ARG
3	P2	104	VAL
3	P2	107	ASP
3	P2	111	ASN
3	P2	113	LEU

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Mol	Chain	Res	Type
3	P2	141	ILE
3	P2	142	VAL
3	P2	152	ASP
3	P2	156	LEU
3	P2	166	THR
3	P2	172	GLU
2	Q2	43	THR
2	Q2	44	LEU
2	Q2	50	THR
2	Q2	59	VAL
2	Q2	66	THR
2	Q2	67	THR
2	Q2	68	SER
2	Q2	69	THR
2	Q2	82	ASP
2	Q2	84	CYS
2	Q2	99	LEU
2	Q2	107	MET
2	Q2	108	ASP
2	Q2	121	THR
2	Q2	123	ASP
2	Q2	125	SER
2	Q2	143	THR
2	Q2	149	GLU
2	Q2	155	ASP
3	R2	3	ASP
3	R2	17	GLU
3	R2	29	LYS
3	R2	31	VAL
3	R2	36	LYS
3	R2	37	ARG
3	R2	38	SER
3	R2	45	THR
3	R2	49	SER
3	R2	62	ASP
3	R2	77	ARG
3	R2	104	VAL
3	R2	107	ASP
3	R2	111	ASN
3	R2	113	LEU
3	R2	141	ILE
3	R2	142	VAL

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Mol	Chain	Res	Type
3	R2	166	THR
3	R2	172	GLU
2	S2	43	THR
2	S2	44	LEU
2	S2	50	THR
2	S2	59	VAL
2	S2	66	THR
2	S2	67	THR
2	S2	68	SER
2	S2	69	THR
2	S2	82	ASP
2	S2	84	CYS
2	S2	99	LEU
2	S2	107	MET
2	S2	108	ASP
2	S2	121	THR
2	S2	123	ASP
2	S2	125	SER
2	S2	143	THR
2	S2	149	GLU
2	S2	155	ASP
3	T2	3	ASP
3	T2	17	GLU
3	T2	29	LYS
3	T2	31	VAL
3	T2	37	ARG
3	T2	38	SER
3	T2	45	THR
3	T2	49	SER
3	T2	62	ASP
3	T2	77	ARG
3	T2	104	VAL
3	T2	107	ASP
3	T2	111	ASN
3	T2	113	LEU
3	T2	141	ILE
3	T2	142	VAL
3	T2	166	THR
3	T2	172	GLU
2	U2	43	THR
2	U2	44	LEU
2	U2	50	THR

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Mol	Chain	Res	Type
2	U2	59	VAL
2	U2	66	THR
2	U2	67	THR
2	U2	68	SER
2	U2	69	THR
2	U2	82	ASP
2	U2	84	CYS
2	U2	99	LEU
2	U2	107	MET
2	U2	108	ASP
2	U2	121	THR
2	U2	123	ASP
2	U2	125	SER
2	U2	143	THR
2	U2	149	GLU
2	U2	155	ASP
3	V2	3	ASP
3	V2	17	GLU
3	V2	29	LYS
3	V2	31	VAL
3	V2	37	ARG
3	V2	38	SER
3	V2	45	THR
3	V2	49	SER
3	V2	57	ARG
3	V2	62	ASP
3	V2	77	ARG
3	V2	104	VAL
3	V2	107	ASP
3	V2	111	ASN
3	V2	113	LEU
3	V2	141	ILE
3	V2	142	VAL
3	V2	166	THR
3	V2	172	GLU
2	W2	43	THR
2	W2	44	LEU
2	W2	50	THR
2	W2	59	VAL
2	W2	66	THR
2	W2	67	THR
2	W2	68	SER

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Mol	Chain	Res	Type
2	W2	69	THR
2	W2	82	ASP
2	W2	84	CYS
2	W2	99	LEU
2	W2	107	MET
2	W2	108	ASP
2	W2	121	THR
2	W2	123	ASP
2	W2	125	SER
2	W2	143	THR
2	W2	149	GLU
2	W2	155	ASP
3	X2	3	ASP
3	X2	17	GLU
3	X2	29	LYS
3	X2	31	VAL
3	X2	37	ARG
3	X2	38	SER
3	X2	45	THR
3	X2	49	SER
3	X2	62	ASP
3	X2	77	ARG
3	X2	104	VAL
3	X2	107	ASP
3	X2	113	LEU
3	X2	141	ILE
3	X2	142	VAL
3	X2	148	VAL
3	X2	166	THR
3	X2	172	GLU
2	Y2	43	THR
2	Y2	44	LEU
2	Y2	50	THR
2	Y2	59	VAL
2	Y2	66	THR
2	Y2	67	THR
2	Y2	68	SER
2	Y2	69	THR
2	Y2	82	ASP
2	Y2	84	CYS
2	Y2	99	LEU
2	Y2	107	MET

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Mol	Chain	Res	Type
2	Y2	108	ASP
2	Y2	121	THR
2	Y2	123	ASP
2	Y2	125	SER
2	Y2	143	THR
2	Y2	149	GLU
2	Y2	155	ASP
3	Z2	3	ASP
3	Z2	17	GLU
3	Z2	29	LYS
3	Z2	31	VAL
3	Z2	37	ARG
3	Z2	38	SER
3	Z2	45	THR
3	Z2	49	SER
3	Z2	62	ASP
3	Z2	77	ARG
3	Z2	104	VAL
3	Z2	107	ASP
3	Z2	111	ASN
3	Z2	113	LEU
3	Z2	141	ILE
3	Z2	142	VAL
3	Z2	148	VAL
3	Z2	156	LEU
3	Z2	166	THR
3	Z2	172	GLU
4	a2	232	LEU
4	a2	263	VAL
5	03	6	SER
5	03	11	LEU
5	03	22	LEU
5	03	23	SER
5	03	35	LEU
5	03	49	SER
5	03	63	SER
5	03	66	LEU
5	03	73	ASN
5	03	138	SER
5	03	146	THR
5	03	152	MET
5	03	169	SER

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Mol	Chain	Res	Type
5	03	188	ILE
5	03	202	SER
5	03	205	LEU
5	03	216	VAL
5	03	233	ASN
5	03	234	ASP
5	03	237	ARG
5	03	258	GLU
5	03	270	SER
5	03	336	SER
5	03	379	SER
5	03	389	GLU
5	03	390	THR
5	03	397	LEU
5	03	403	GLU
5	03	429	THR
5	03	432	SER
5	03	433	TYR
5	03	442	VAL
5	03	454	PHE
5	03	464	SER
5	03	487	ILE
5	03	488	ASN
5	03	503	SER
5	03	511	LEU
5	03	515	LEU
5	03	523	VAL
5	03	526	SER
5	03	528	SER
5	03	565	THR
5	03	573	LEU
5	03	578	VAL
5	03	611	ILE
5	03	612	ASN
5	03	670	VAL
5	03	676	VAL
5	03	677	GLU
5	03	678	LYS
5	03	690	THR
5	03	693	LEU
5	03	713	THR
5	03	714	LYS

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Mol	Chain	Res	Type
5	03	720	ASP
5	03	721	THR
5	03	723	ASN
5	03	725	VAL
5	03	726	GLU
5	03	743	ILE
5	03	753	THR
5	03	776	SER
5	03	785	THR
5	03	820	SER
5	03	823	LEU
5	03	833	SER
5	03	869	THR
5	03	876	VAL
5	03	877	VAL
5	13	6	SER
5	13	11	LEU
5	13	22	LEU
5	13	23	SER
5	13	35	LEU
5	13	49	SER
5	13	63	SER
5	13	66	LEU
5	13	73	ASN
5	13	138	SER
5	13	146	THR
5	13	152	MET
5	13	188	ILE
5	13	202	SER
5	13	205	LEU
5	13	216	VAL
5	13	231	VAL
5	13	233	ASN
5	13	234	ASP
5	13	237	ARG
5	13	258	GLU
5	13	270	SER
5	13	288	ARG
5	13	336	SER
5	13	379	SER
5	13	389	GLU
5	13	390	THR

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Mol	Chain	Res	Type
5	13	397	LEU
5	13	403	GLU
5	13	429	THR
5	13	432	SER
5	13	442	VAL
5	13	454	PHE
5	13	464	SER
5	13	487	ILE
5	13	488	ASN
5	13	503	SER
5	13	511	LEU
5	13	515	LEU
5	13	523	VAL
5	13	526	SER
5	13	528	SER
5	13	565	THR
5	13	573	LEU
5	13	578	VAL
5	13	611	ILE
5	13	612	ASN
5	13	670	VAL
5	13	676	VAL
5	13	677	GLU
5	13	678	LYS
5	13	690	THR
5	13	693	LEU
5	13	713	THR
5	13	714	LYS
5	13	717	LYS
5	13	720	ASP
5	13	721	THR
5	13	723	ASN
5	13	725	VAL
5	13	726	GLU
5	13	743	ILE
5	13	753	THR
5	13	776	SER
5	13	785	THR
5	13	820	SER
5	13	823	LEU
5	13	833	SER
5	13	869	THR

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Mol	Chain	Res	Type
5	13	876	VAL
5	13	877	VAL
6	23	57	THR
6	33	57	THR
7	G3	3	ILE
7	G3	19	SER
7	G3	30	VAL
7	G3	41	GLU
7	G3	44	THR
7	G3	52	LYS
7	G3	66	VAL
7	G3	80	THR
7	G3	93	THR
7	G3	102	THR
7	G3	106	GLU
7	G3	110	VAL
7	G3	114	GLU
7	G3	121	THR
7	G3	123	VAL
7	G3	124	ASP
7	G3	128	GLN
7	G3	154	ASP
8	H3	3	ASP
8	H3	6	THR
8	H3	11	SER
8	H3	14	VAL
8	H3	25	ASP
8	H3	36	LEU
8	H3	42	SER
8	H3	43	THR
8	H3	54	GLU
8	H3	56	VAL
8	H3	64	ASP
8	H3	86	ASP
8	H3	123	VAL
8	H3	154	ASP
8	H3	161	SER
7	I3	3	ILE
7	I3	19	SER
7	I3	30	VAL
7	I3	41	GLU
7	I3	44	THR

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Mol	Chain	Res	Type
7	I3	52	LYS
7	I3	66	VAL
7	I3	80	THR
7	I3	93	THR
7	I3	102	THR
7	I3	106	GLU
7	I3	110	VAL
7	I3	114	GLU
7	I3	121	THR
7	I3	123	VAL
7	I3	124	ASP
7	I3	128	GLN
7	I3	154	ASP
8	J3	3	ASP
8	J3	6	THR
8	J3	11	SER
8	J3	14	VAL
8	J3	25	ASP
8	J3	36	LEU
8	J3	42	SER
8	J3	43	THR
8	J3	54	GLU
8	J3	56	VAL
8	J3	64	ASP
8	J3	86	ASP
8	J3	123	VAL
8	J3	154	ASP
8	J3	161	SER
7	K3	3	ILE
7	K3	19	SER
7	K3	30	VAL
7	K3	41	GLU
7	K3	44	THR
7	K3	52	LYS
7	K3	66	VAL
7	K3	80	THR
7	K3	93	THR
7	K3	102	THR
7	K3	106	GLU
7	K3	110	VAL
7	K3	113	ARG
7	K3	114	GLU

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Mol	Chain	Res	Type
7	K3	121	THR
7	K3	123	VAL
7	K3	124	ASP
7	K3	128	GLN
7	K3	154	ASP
8	L3	3	ASP
8	L3	6	THR
8	L3	11	SER
8	L3	14	VAL
8	L3	25	ASP
8	L3	36	LEU
8	L3	42	SER
8	L3	43	THR
8	L3	54	GLU
8	L3	56	VAL
8	L3	64	ASP
8	L3	86	ASP
8	L3	123	VAL
8	L3	154	ASP
8	L3	161	SER
8	M3	3	ASP
8	M3	6	THR
8	M3	11	SER
8	M3	14	VAL
8	M3	25	ASP
8	M3	36	LEU
8	M3	42	SER
8	M3	43	THR
8	M3	54	GLU
8	M3	56	VAL
8	M3	64	ASP
8	M3	86	ASP
8	M3	123	VAL
8	M3	154	ASP
8	M3	161	SER
7	N3	3	ILE
7	N3	19	SER
7	N3	30	VAL
7	N3	41	GLU
7	N3	44	THR
7	N3	52	LYS
7	N3	66	VAL

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Mol	Chain	Res	Type
7	N3	80	THR
7	N3	93	THR
7	N3	102	THR
7	N3	106	GLU
7	N3	110	VAL
7	N3	114	GLU
7	N3	121	THR
7	N3	123	VAL
7	N3	124	ASP
7	N3	128	GLN
7	N3	154	ASP
8	O3	3	ASP
8	O3	6	THR
8	O3	11	SER
8	O3	14	VAL
8	O3	25	ASP
8	O3	36	LEU
8	O3	42	SER
8	O3	43	THR
8	O3	54	GLU
8	O3	56	VAL
8	O3	64	ASP
8	O3	86	ASP
8	O3	123	VAL
8	O3	154	ASP
8	O3	161	SER
7	P3	3	ILE
7	P3	19	SER
7	P3	30	VAL
7	P3	41	GLU
7	P3	44	THR
7	P3	52	LYS
7	P3	66	VAL
7	P3	80	THR
7	P3	93	THR
7	P3	102	THR
7	P3	106	GLU
7	P3	110	VAL
7	P3	114	GLU
7	P3	121	THR
7	P3	123	VAL
7	P3	124	ASP

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Mol	Chain	Res	Type
7	P3	128	GLN
7	P3	154	ASP
9	Q3	3	ASP
9	Q3	39	THR
9	Q3	48	SER
9	Q3	90	LEU
9	Q3	104	VAL
9	Q3	128	VAL
9	Q3	150	THR
7	R3	3	ILE
7	R3	19	SER
7	R3	30	VAL
7	R3	41	GLU
7	R3	44	THR
7	R3	52	LYS
7	R3	66	VAL
7	R3	80	THR
7	R3	93	THR
7	R3	102	THR
7	R3	106	GLU
7	R3	110	VAL
7	R3	114	GLU
7	R3	121	THR
7	R3	123	VAL
7	R3	124	ASP
7	R3	128	GLN
7	R3	154	ASP
8	S3	3	ASP
8	S3	6	THR
8	S3	11	SER
8	S3	14	VAL
8	S3	25	ASP
8	S3	36	LEU
8	S3	42	SER
8	S3	43	THR
8	S3	54	GLU
8	S3	56	VAL
8	S3	64	ASP
8	S3	86	ASP
8	S3	123	VAL
8	S3	154	ASP
8	S3	161	SER

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Mol	Chain	Res	Type
7	T3	3	ILE
7	T3	19	SER
7	T3	30	VAL
7	T3	41	GLU
7	T3	44	THR
7	T3	52	LYS
7	T3	66	VAL
7	T3	80	THR
7	T3	93	THR
7	T3	102	THR
7	T3	106	GLU
7	T3	110	VAL
7	T3	114	GLU
7	T3	121	THR
7	T3	123	VAL
7	T3	124	ASP
7	T3	128	GLN
7	T3	154	ASP
8	U3	3	ASP
8	U3	6	THR
8	U3	11	SER
8	U3	14	VAL
8	U3	25	ASP
8	U3	36	LEU
8	U3	42	SER
8	U3	43	THR
8	U3	54	GLU
8	U3	56	VAL
8	U3	64	ASP
8	U3	86	ASP
8	U3	123	VAL
8	U3	154	ASP
8	U3	161	SER
10	V3	30	LEU
10	V3	32	THR
10	V3	37	ILE
10	V3	47	GLU
10	V3	74	THR
10	V3	75	THR
10	V3	97	LEU
10	V3	104	ILE
10	V3	112	VAL

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Mol	Chain	Res	Type
10	V3	121	VAL
10	V3	135	ASP
10	V3	138	LEU
10	V3	141	LEU
10	V3	143	SER
10	V3	144	GLU
8	W3	3	ASP
8	W3	6	THR
8	W3	11	SER
8	W3	14	VAL
8	W3	25	ASP
8	W3	36	LEU
8	W3	42	SER
8	W3	43	THR
8	W3	54	GLU
8	W3	56	VAL
8	W3	64	ASP
8	W3	86	ASP
8	W3	123	VAL
8	W3	154	ASP
8	W3	161	SER
7	X3	3	ILE
7	X3	19	SER
7	X3	30	VAL
7	X3	41	GLU
7	X3	44	THR
7	X3	52	LYS
7	X3	66	VAL
7	X3	80	THR
7	X3	93	THR
7	X3	102	THR
7	X3	106	GLU
7	X3	110	VAL
7	X3	113	ARG
7	X3	114	GLU
7	X3	121	THR
7	X3	123	VAL
7	X3	124	ASP
7	X3	128	GLN
7	X3	154	ASP
8	Y3	3	ASP
8	Y3	6	THR

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Mol	Chain	Res	Type
8	Y3	11	SER
8	Y3	14	VAL
8	Y3	25	ASP
8	Y3	36	LEU
8	Y3	42	SER
8	Y3	43	THR
8	Y3	54	GLU
8	Y3	56	VAL
8	Y3	64	ASP
8	Y3	86	ASP
8	Y3	123	VAL
8	Y3	154	ASP
8	Y3	161	SER
7	Z3	3	ILE
7	Z3	19	SER
7	Z3	30	VAL
7	Z3	41	GLU
7	Z3	44	THR
7	Z3	52	LYS
7	Z3	66	VAL
7	Z3	80	THR
7	Z3	93	THR
7	Z3	102	THR
7	Z3	106	GLU
7	Z3	110	VAL
7	Z3	113	ARG
7	Z3	114	GLU
7	Z3	121	THR
7	Z3	123	VAL
7	Z3	124	ASP
7	Z3	128	GLN
7	Z3	154	ASP
8	a3	3	ASP
8	a3	6	THR
8	a3	11	SER
8	a3	14	VAL
8	a3	25	ASP
8	a3	36	LEU
8	a3	42	SER
8	a3	43	THR
8	a3	54	GLU
8	a3	56	VAL

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Mol	Chain	Res	Type
8	a3	64	ASP
8	a3	86	ASP
8	a3	123	VAL
8	a3	154	ASP
8	a3	161	SER
7	b3	3	ILE
7	b3	19	SER
7	b3	30	VAL
7	b3	41	GLU
7	b3	44	THR
7	b3	52	LYS
7	b3	66	VAL
7	b3	80	THR
7	b3	93	THR
7	b3	102	THR
7	b3	106	GLU
7	b3	110	VAL
7	b3	114	GLU
7	b3	121	THR
7	b3	123	VAL
7	b3	124	ASP
7	b3	128	GLN
7	b3	154	ASP
8	c3	3	ASP
8	c3	6	THR
8	c3	11	SER
8	c3	14	VAL
8	c3	25	ASP
8	c3	36	LEU
8	c3	42	SER
8	c3	43	THR
8	c3	54	GLU
8	c3	56	VAL
8	c3	64	ASP
8	c3	86	ASP
8	c3	123	VAL
8	c3	154	ASP
8	c3	161	SER
7	d3	3	ILE
7	d3	19	SER
7	d3	30	VAL
7	d3	41	GLU

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Mol	Chain	Res	Type
7	d3	44	THR
7	d3	52	LYS
7	d3	66	VAL
7	d3	80	THR
7	d3	93	THR
7	d3	102	THR
7	d3	106	GLU
7	d3	110	VAL
7	d3	114	GLU
7	d3	121	THR
7	d3	123	VAL
7	d3	124	ASP
7	d3	128	GLN
7	d3	154	ASP
8	e3	3	ASP
8	e3	6	THR
8	e3	11	SER
8	e3	14	VAL
8	e3	25	ASP
8	e3	36	LEU
8	e3	42	SER
8	e3	43	THR
8	e3	54	GLU
8	e3	56	VAL
8	e3	64	ASP
8	e3	86	ASP
8	e3	123	VAL
8	e3	154	ASP
8	e3	161	SER
7	f3	3	ILE
7	f3	19	SER
7	f3	30	VAL
7	f3	41	GLU
7	f3	44	THR
7	f3	52	LYS
7	f3	66	VAL
7	f3	80	THR
7	f3	93	THR
7	f3	102	THR
7	f3	106	GLU
7	f3	110	VAL
7	f3	114	GLU

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Mol	Chain	Res	Type
7	f3	121	THR
7	f3	123	VAL
7	f3	124	ASP
7	f3	128	GLN
7	f3	154	ASP
9	g3	3	ASP
9	g3	39	THR
9	g3	48	SER
9	g3	90	LEU
9	g3	104	VAL
9	g3	128	VAL
9	g3	150	THR
8	h3	3	ASP
8	h3	6	THR
8	h3	11	SER
8	h3	14	VAL
8	h3	25	ASP
8	h3	36	LEU
8	h3	42	SER
8	h3	43	THR
8	h3	54	GLU
8	h3	56	VAL
8	h3	64	ASP
8	h3	86	ASP
8	h3	123	VAL
8	h3	154	ASP
8	h3	161	SER
7	i3	3	ILE
7	i3	19	SER
7	i3	30	VAL
7	i3	41	GLU
7	i3	44	THR
7	i3	52	LYS
7	i3	66	VAL
7	i3	80	THR
7	i3	93	THR
7	i3	102	THR
7	i3	106	GLU
7	i3	110	VAL
7	i3	114	GLU
7	i3	121	THR
7	i3	123	VAL

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Mol	Chain	Res	Type
7	i3	124	ASP
7	i3	128	GLN
7	i3	154	ASP
8	j3	3	ASP
8	j3	6	THR
8	j3	11	SER
8	j3	14	VAL
8	j3	25	ASP
8	j3	36	LEU
8	j3	42	SER
8	j3	43	THR
8	j3	54	GLU
8	j3	56	VAL
8	j3	64	ASP
8	j3	86	ASP
8	j3	123	VAL
8	j3	154	ASP
8	j3	161	SER
7	k3	3	ILE
7	k3	19	SER
7	k3	30	VAL
7	k3	41	GLU
7	k3	44	THR
7	k3	52	LYS
7	k3	66	VAL
7	k3	80	THR
7	k3	93	THR
7	k3	102	THR
7	k3	106	GLU
7	k3	110	VAL
7	k3	114	GLU
7	k3	121	THR
7	k3	123	VAL
7	k3	124	ASP
7	k3	128	GLN
7	k3	154	ASP
8	l3	3	ASP
8	l3	6	THR
8	l3	11	SER
8	l3	14	VAL
8	l3	25	ASP
8	l3	36	LEU

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Mol	Chain	Res	Type
8	l3	42	SER
8	l3	43	THR
8	l3	54	GLU
8	l3	56	VAL
8	l3	64	ASP
8	l3	86	ASP
8	l3	123	VAL
8	l3	154	ASP
8	l3	161	SER
10	m3	30	LEU
10	m3	32	THR
10	m3	37	ILE
10	m3	47	GLU
10	m3	74	THR
10	m3	75	THR
10	m3	97	LEU
10	m3	104	ILE
10	m3	112	VAL
10	m3	121	VAL
10	m3	135	ASP
10	m3	138	LEU
10	m3	141	LEU
10	m3	143	SER
10	m3	144	GLU
8	n3	3	ASP
8	n3	6	THR
8	n3	11	SER
8	n3	14	VAL
8	n3	25	ASP
8	n3	36	LEU
8	n3	42	SER
8	n3	43	THR
8	n3	54	GLU
8	n3	56	VAL
8	n3	64	ASP
8	n3	86	ASP
8	n3	123	VAL
8	n3	154	ASP
8	n3	161	SER
7	o3	3	ILE
7	o3	19	SER
7	o3	30	VAL

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Mol	Chain	Res	Type
7	o3	41	GLU
7	o3	44	THR
7	o3	52	LYS
7	o3	93	THR
7	o3	102	THR
7	o3	106	GLU
7	o3	110	VAL
7	o3	113	ARG
7	o3	114	GLU
7	o3	121	THR
7	o3	123	VAL
7	o3	124	ASP
7	o3	128	GLN
7	o3	154	ASP
8	p3	3	ASP
8	p3	6	THR
8	p3	11	SER
8	p3	14	VAL
8	p3	25	ASP
8	p3	36	LEU
8	p3	42	SER
8	p3	43	THR
8	p3	54	GLU
8	p3	56	VAL
8	p3	64	ASP
8	p3	86	ASP
8	p3	123	VAL
8	p3	154	ASP
8	p3	161	SER
7	q3	3	ILE
7	q3	19	SER
7	q3	25	ARG
7	q3	30	VAL
7	q3	41	GLU
7	q3	44	THR
7	q3	52	LYS
7	q3	66	VAL
7	q3	75	GLU
7	q3	76	GLU
7	q3	80	THR
7	q3	93	THR
7	q3	102	THR

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Mol	Chain	Res	Type
7	q3	106	GLU
7	q3	110	VAL
7	q3	114	GLU
7	q3	121	THR
7	q3	123	VAL
7	q3	124	ASP
7	q3	128	GLN
7	q3	154	ASP
8	r3	3	ASP
8	r3	6	THR
8	r3	11	SER
8	r3	14	VAL
8	r3	25	ASP
8	r3	36	LEU
8	r3	42	SER
8	r3	43	THR
8	r3	54	GLU
8	r3	56	VAL
8	r3	64	ASP
8	r3	86	ASP
8	r3	123	VAL
8	r3	154	ASP
8	r3	161	SER
7	s3	3	ILE
7	s3	19	SER
7	s3	30	VAL
7	s3	41	GLU
7	s3	44	THR
7	s3	52	LYS
7	s3	66	VAL
7	s3	80	THR
7	s3	93	THR
7	s3	102	THR
7	s3	106	GLU
7	s3	110	VAL
7	s3	114	GLU
7	s3	121	THR
7	s3	123	VAL
7	s3	124	ASP
7	s3	128	GLN
7	s3	154	ASP
8	t3	3	ASP

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Mol	Chain	Res	Type
8	t3	6	THR
8	t3	11	SER
8	t3	14	VAL
8	t3	25	ASP
8	t3	36	LEU
8	t3	42	SER
8	t3	43	THR
8	t3	54	GLU
8	t3	56	VAL
8	t3	64	ASP
8	t3	86	ASP
8	t3	123	VAL
8	t3	154	ASP
8	t3	161	SER
7	u3	3	ILE
7	u3	19	SER
7	u3	30	VAL
7	u3	41	GLU
7	u3	44	THR
7	u3	52	LYS
7	u3	66	VAL
7	u3	80	THR
7	u3	93	THR
7	u3	102	THR
7	u3	106	GLU
7	u3	110	VAL
7	u3	114	GLU
7	u3	117	LYS
7	u3	121	THR
7	u3	123	VAL
7	u3	124	ASP
7	u3	128	GLN
7	u3	154	ASP
8	v3	3	ASP
8	v3	6	THR
8	v3	11	SER
8	v3	14	VAL
8	v3	25	ASP
8	v3	36	LEU
8	v3	42	SER
8	v3	43	THR
8	v3	54	GLU

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Mol	Chain	Res	Type
8	v3	56	VAL
8	v3	64	ASP
8	v3	86	ASP
8	v3	123	VAL
8	v3	154	ASP
8	v3	161	SER
7	w3	3	ILE
7	w3	19	SER
7	w3	25	ARG
7	w3	30	VAL
7	w3	41	GLU
7	w3	44	THR
7	w3	52	LYS
7	w3	66	VAL
7	w3	80	THR
7	w3	93	THR
7	w3	102	THR
7	w3	106	GLU
7	w3	110	VAL
7	w3	113	ARG
7	w3	114	GLU
7	w3	121	THR
7	w3	123	VAL
7	w3	124	ASP
7	w3	128	GLN
7	w3	154	ASP
8	x3	3	ASP
8	x3	6	THR
8	x3	11	SER
8	x3	14	VAL
8	x3	25	ASP
8	x3	36	LEU
8	x3	42	SER
8	x3	43	THR
8	x3	54	GLU
8	x3	56	VAL
8	x3	64	ASP
8	x3	86	ASP
8	x3	123	VAL
8	x3	154	ASP
8	x3	161	SER
7	y3	3	ILE

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Mol	Chain	Res	Type
7	y3	19	SER
7	y3	30	VAL
7	y3	41	GLU
7	y3	44	THR
7	y3	52	LYS
7	y3	66	VAL
7	y3	80	THR
7	y3	93	THR
7	y3	102	THR
7	y3	106	GLU
7	y3	110	VAL
7	y3	114	GLU
7	y3	121	THR
7	y3	123	VAL
7	y3	124	ASP
7	y3	128	GLN
7	y3	154	ASP
8	z3	3	ASP
8	z3	6	THR
8	z3	11	SER
8	z3	14	VAL
8	z3	25	ASP
8	z3	36	LEU
8	z3	42	SER
8	z3	43	THR
8	z3	54	GLU
8	z3	56	VAL
8	z3	64	ASP
8	z3	86	ASP
8	z3	123	VAL
8	z3	154	ASP
8	z3	161	SER
1	A4	196	TRP
1	A4	203	PHE
2	B4	23	GLU
2	B4	27	LEU
2	B4	31	LEU
2	B4	39	GLU
2	B4	44	LEU
2	B4	47	LYS
2	B4	50	THR
2	B4	52	VAL

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Mol	Chain	Res	Type
2	B4	57	GLN
2	B4	59	VAL
2	B4	66	THR
2	B4	100	VAL
2	B4	123	ASP
2	B4	131	GLU
2	B4	149	GLU
2	B4	151	ASN
3	C4	6	THR
3	C4	25	GLU
3	C4	47	ASN
3	C4	52	VAL
3	C4	77	ARG
3	C4	99	THR
3	C4	103	SER
3	C4	116	THR
3	C4	141	ILE
3	C4	142	VAL
3	C4	158	GLN
3	C4	160	ILE
3	C4	161	GLU
2	D4	19	LEU
2	D4	23	GLU
2	D4	31	LEU
2	D4	39	GLU
2	D4	44	LEU
2	D4	47	LYS
2	D4	50	THR
2	D4	52	VAL
2	D4	57	GLN
2	D4	59	VAL
2	D4	66	THR
2	D4	100	VAL
2	D4	123	ASP
2	D4	131	GLU
2	D4	148	THR
2	D4	149	GLU
2	D4	151	ASN
3	E4	6	THR
3	E4	25	GLU
3	E4	52	VAL
3	E4	77	ARG

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Mol	Chain	Res	Type
3	E4	99	THR
3	E4	103	SER
3	E4	116	THR
3	E4	148	VAL
3	E4	152	ASP
3	E4	158	GLN
3	E4	160	ILE
3	E4	161	GLU
2	F4	20	SER
2	F4	21	ASN
2	F4	31	LEU
2	F4	39	GLU
2	F4	44	LEU
2	F4	47	LYS
2	F4	50	THR
2	F4	52	VAL
2	F4	57	GLN
2	F4	59	VAL
2	F4	66	THR
2	F4	100	VAL
2	F4	123	ASP
2	F4	131	GLU
2	F4	149	GLU
2	F4	151	ASN
3	G4	6	THR
3	G4	25	GLU
3	G4	52	VAL
3	G4	77	ARG
3	G4	99	THR
3	G4	103	SER
3	G4	116	THR
3	G4	141	ILE
3	G4	142	VAL
3	G4	143	MET
3	G4	158	GLN
3	G4	160	ILE
3	G4	161	GLU
2	H4	19	LEU
2	H4	24	LEU
2	H4	31	LEU
2	H4	39	GLU
2	H4	44	LEU

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Mol	Chain	Res	Type
2	H4	47	LYS
2	H4	50	THR
2	H4	52	VAL
2	H4	57	GLN
2	H4	59	VAL
2	H4	66	THR
2	H4	100	VAL
2	H4	123	ASP
2	H4	131	GLU
2	H4	145	ASP
3	I4	6	THR
3	I4	25	GLU
3	I4	52	VAL
3	I4	77	ARG
3	I4	99	THR
3	I4	103	SER
3	I4	116	THR
3	I4	142	VAL
3	I4	152	ASP
3	I4	153	CYS
3	I4	158	GLN
3	I4	160	ILE
3	I4	161	GLU
2	J4	18	PHE
2	J4	19	LEU
2	J4	23	GLU
2	J4	31	LEU
2	J4	39	GLU
2	J4	44	LEU
2	J4	47	LYS
2	J4	50	THR
2	J4	52	VAL
2	J4	57	GLN
2	J4	59	VAL
2	J4	66	THR
2	J4	100	VAL
2	J4	123	ASP
2	J4	131	GLU
2	J4	148	THR
3	K4	6	THR
3	K4	25	GLU
3	K4	52	VAL

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Mol	Chain	Res	Type
3	K4	77	ARG
3	K4	99	THR
3	K4	103	SER
3	K4	116	THR
3	K4	142	VAL
3	K4	144	ASP
3	K4	148	VAL
3	K4	158	GLN
3	K4	160	ILE
3	K4	161	GLU
2	L4	19	LEU
2	L4	31	LEU
2	L4	39	GLU
2	L4	44	LEU
2	L4	47	LYS
2	L4	50	THR
2	L4	52	VAL
2	L4	57	GLN
2	L4	59	VAL
2	L4	66	THR
2	L4	100	VAL
2	L4	123	ASP
2	L4	131	GLU
2	L4	151	ASN
3	M4	6	THR
3	M4	25	GLU
3	M4	52	VAL
3	M4	99	THR
3	M4	103	SER
3	M4	116	THR
3	M4	142	VAL
3	M4	149	THR
3	M4	152	ASP
3	M4	158	GLN
3	M4	160	ILE
3	M4	161	GLU
4	N4	2	PRO
4	N4	68	VAL
2	O4	18	PHE
2	O4	19	LEU
2	O4	23	GLU
2	O4	31	LEU

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Mol	Chain	Res	Type
2	O4	39	GLU
2	O4	44	LEU
2	O4	47	LYS
2	O4	50	THR
2	O4	52	VAL
2	O4	57	GLN
2	O4	59	VAL
2	O4	66	THR
2	O4	100	VAL
2	O4	123	ASP
2	O4	131	GLU
2	O4	148	THR
3	P4	6	THR
3	P4	25	GLU
3	P4	52	VAL
3	P4	77	ARG
3	P4	99	THR
3	P4	103	SER
3	P4	116	THR
3	P4	152	ASP
3	P4	158	GLN
3	P4	160	ILE
3	P4	161	GLU
2	Q4	23	GLU
2	Q4	31	LEU
2	Q4	39	GLU
2	Q4	44	LEU
2	Q4	47	LYS
2	Q4	50	THR
2	Q4	52	VAL
2	Q4	57	GLN
2	Q4	59	VAL
2	Q4	66	THR
2	Q4	100	VAL
2	Q4	123	ASP
2	Q4	131	GLU
2	Q4	142	LEU
2	Q4	149	GLU
3	R4	6	THR
3	R4	25	GLU
3	R4	52	VAL
3	R4	77	ARG

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Mol	Chain	Res	Type
3	R4	99	THR
3	R4	103	SER
3	R4	116	THR
3	R4	158	GLN
3	R4	160	ILE
3	R4	161	GLU
2	S4	25	GLN
2	S4	31	LEU
2	S4	32	ARG
2	S4	39	GLU
2	S4	44	LEU
2	S4	47	LYS
2	S4	50	THR
2	S4	52	VAL
2	S4	57	GLN
2	S4	59	VAL
2	S4	66	THR
2	S4	100	VAL
2	S4	123	ASP
2	S4	131	GLU
3	T4	6	THR
3	T4	25	GLU
3	T4	52	VAL
3	T4	77	ARG
3	T4	99	THR
3	T4	103	SER
3	T4	116	THR
3	T4	142	VAL
3	T4	158	GLN
3	T4	160	ILE
3	T4	161	GLU
2	U4	19	LEU
2	U4	31	LEU
2	U4	39	GLU
2	U4	44	LEU
2	U4	47	LYS
2	U4	50	THR
2	U4	52	VAL
2	U4	57	GLN
2	U4	59	VAL
2	U4	66	THR
2	U4	100	VAL

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Mol	Chain	Res	Type
2	U4	123	ASP
2	U4	131	GLU
2	U4	151	ASN
3	V4	6	THR
3	V4	25	GLU
3	V4	39	ASP
3	V4	52	VAL
3	V4	77	ARG
3	V4	99	THR
3	V4	103	SER
3	V4	116	THR
3	V4	160	ILE
3	V4	161	GLU
2	W4	21	ASN
2	W4	31	LEU
2	W4	39	GLU
2	W4	44	LEU
2	W4	47	LYS
2	W4	50	THR
2	W4	52	VAL
2	W4	57	GLN
2	W4	59	VAL
2	W4	66	THR
2	W4	100	VAL
2	W4	123	ASP
2	W4	131	GLU
2	W4	151	ASN
3	X4	6	THR
3	X4	25	GLU
3	X4	52	VAL
3	X4	77	ARG
3	X4	99	THR
3	X4	103	SER
3	X4	116	THR
3	X4	152	ASP
3	X4	160	ILE
3	X4	161	GLU
2	Y4	19	LEU
2	Y4	31	LEU
2	Y4	39	GLU
2	Y4	44	LEU
2	Y4	47	LYS

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Mol	Chain	Res	Type
2	Y4	50	THR
2	Y4	52	VAL
2	Y4	57	GLN
2	Y4	59	VAL
2	Y4	66	THR
2	Y4	100	VAL
2	Y4	123	ASP
2	Y4	131	GLU
2	Y4	139	ASN
2	Y4	149	GLU
3	Z4	6	THR
3	Z4	25	GLU
3	Z4	52	VAL
3	Z4	77	ARG
3	Z4	99	THR
3	Z4	103	SER
3	Z4	116	THR
3	Z4	142	VAL
3	Z4	143	MET
3	Z4	158	GLN
3	Z4	160	ILE
3	Z4	161	GLU
4	a4	248	THR
1	A5	203	PHE
1	A5	211	GLN
1	A5	218	PHE
2	B5	43	THR
2	B5	53	ASN
2	B5	62	LYS
2	B5	66	THR
2	B5	67	THR
2	B5	73	ASN
2	B5	88	ILE
2	B5	136	ILE
2	B5	143	THR
2	B5	145	ASP
2	B5	155	ASP
3	C5	49	SER
3	C5	75	THR
3	C5	89	ILE
3	C5	111	ASN
3	C5	126	SER

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Mol	Chain	Res	Type
3	C5	127	VAL
3	C5	149	THR
3	C5	154	SER
3	C5	160	ILE
3	C5	166	THR
3	C5	172	GLU
2	D5	43	THR
2	D5	53	ASN
2	D5	62	LYS
2	D5	66	THR
2	D5	67	THR
2	D5	73	ASN
2	D5	88	ILE
2	D5	136	ILE
2	D5	143	THR
2	D5	155	ASP
3	E5	49	SER
3	E5	75	THR
3	E5	89	ILE
3	E5	111	ASN
3	E5	126	SER
3	E5	127	VAL
3	E5	149	THR
3	E5	154	SER
3	E5	160	ILE
3	E5	166	THR
3	E5	172	GLU
2	F5	43	THR
2	F5	53	ASN
2	F5	62	LYS
2	F5	66	THR
2	F5	67	THR
2	F5	73	ASN
2	F5	88	ILE
2	F5	136	ILE
2	F5	143	THR
2	F5	155	ASP
3	G5	49	SER
3	G5	75	THR
3	G5	89	ILE
3	G5	111	ASN
3	G5	126	SER

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Mol	Chain	Res	Type
3	G5	127	VAL
3	G5	149	THR
3	G5	154	SER
3	G5	160	ILE
3	G5	166	THR
3	G5	172	GLU
2	H5	43	THR
2	H5	53	ASN
2	H5	62	LYS
2	H5	66	THR
2	H5	67	THR
2	H5	73	ASN
2	H5	88	ILE
2	H5	136	ILE
2	H5	143	THR
2	H5	155	ASP
3	I5	49	SER
3	I5	75	THR
3	I5	89	ILE
3	I5	111	ASN
3	I5	126	SER
3	I5	127	VAL
3	I5	149	THR
3	I5	154	SER
3	I5	160	ILE
3	I5	166	THR
3	I5	172	GLU
2	J5	43	THR
2	J5	53	ASN
2	J5	57	GLN
2	J5	62	LYS
2	J5	66	THR
2	J5	67	THR
2	J5	73	ASN
2	J5	88	ILE
2	J5	136	ILE
2	J5	143	THR
2	J5	155	ASP
3	K5	49	SER
3	K5	75	THR
3	K5	89	ILE
3	K5	111	ASN

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Mol	Chain	Res	Type
3	K5	126	SER
3	K5	127	VAL
3	K5	149	THR
3	K5	154	SER
3	K5	160	ILE
3	K5	166	THR
3	K5	172	GLU
2	L5	43	THR
2	L5	53	ASN
2	L5	62	LYS
2	L5	66	THR
2	L5	67	THR
2	L5	73	ASN
2	L5	88	ILE
2	L5	136	ILE
2	L5	143	THR
2	L5	155	ASP
3	M5	49	SER
3	M5	75	THR
3	M5	89	ILE
3	M5	111	ASN
3	M5	126	SER
3	M5	127	VAL
3	M5	149	THR
3	M5	154	SER
3	M5	160	ILE
3	M5	166	THR
3	M5	172	GLU
4	N5	12	THR
2	O5	43	THR
2	O5	53	ASN
2	O5	62	LYS
2	O5	66	THR
2	O5	67	THR
2	O5	73	ASN
2	O5	88	ILE
2	O5	136	ILE
2	O5	143	THR
2	O5	155	ASP
3	P5	49	SER
3	P5	75	THR
3	P5	89	ILE

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Mol	Chain	Res	Type
3	P5	111	ASN
3	P5	126	SER
3	P5	127	VAL
3	P5	149	THR
3	P5	154	SER
3	P5	160	ILE
3	P5	166	THR
3	P5	172	GLU
2	Q5	43	THR
2	Q5	53	ASN
2	Q5	62	LYS
2	Q5	66	THR
2	Q5	67	THR
2	Q5	73	ASN
2	Q5	88	ILE
2	Q5	136	ILE
2	Q5	143	THR
2	Q5	155	ASP
3	R5	49	SER
3	R5	75	THR
3	R5	89	ILE
3	R5	111	ASN
3	R5	126	SER
3	R5	127	VAL
3	R5	149	THR
3	R5	154	SER
3	R5	160	ILE
3	R5	166	THR
3	R5	172	GLU
2	S5	43	THR
2	S5	53	ASN
2	S5	62	LYS
2	S5	66	THR
2	S5	67	THR
2	S5	73	ASN
2	S5	88	ILE
2	S5	136	ILE
2	S5	143	THR
2	S5	155	ASP
3	T5	49	SER
3	T5	75	THR
3	T5	89	ILE

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Mol	Chain	Res	Type
3	T5	111	ASN
3	T5	126	SER
3	T5	127	VAL
3	T5	149	THR
3	T5	154	SER
3	T5	160	ILE
3	T5	166	THR
3	T5	172	GLU
2	U5	43	THR
2	U5	53	ASN
2	U5	62	LYS
2	U5	66	THR
2	U5	67	THR
2	U5	73	ASN
2	U5	88	ILE
2	U5	136	ILE
2	U5	143	THR
2	U5	155	ASP
3	V5	49	SER
3	V5	75	THR
3	V5	89	ILE
3	V5	111	ASN
3	V5	126	SER
3	V5	127	VAL
3	V5	149	THR
3	V5	154	SER
3	V5	160	ILE
3	V5	166	THR
3	V5	172	GLU
2	W5	43	THR
2	W5	53	ASN
2	W5	62	LYS
2	W5	66	THR
2	W5	67	THR
2	W5	73	ASN
2	W5	88	ILE
2	W5	136	ILE
2	W5	143	THR
2	W5	155	ASP
3	X5	49	SER
3	X5	75	THR
3	X5	89	ILE

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Mol	Chain	Res	Type
3	X5	111	ASN
3	X5	126	SER
3	X5	127	VAL
3	X5	149	THR
3	X5	154	SER
3	X5	160	ILE
3	X5	166	THR
3	X5	172	GLU
2	Y5	43	THR
2	Y5	53	ASN
2	Y5	62	LYS
2	Y5	66	THR
2	Y5	67	THR
2	Y5	73	ASN
2	Y5	88	ILE
2	Y5	136	ILE
2	Y5	143	THR
2	Y5	155	ASP
3	Z5	49	SER
3	Z5	75	THR
3	Z5	89	ILE
3	Z5	111	ASN
3	Z5	126	SER
3	Z5	127	VAL
3	Z5	149	THR
3	Z5	154	SER
3	Z5	160	ILE
3	Z5	166	THR
3	Z5	172	GLU
1	A6	21	THR
1	A6	22	VAL
1	A6	37	ILE
1	A6	77	VAL
1	A6	182	ASP
1	A6	191	PHE
1	A6	194	VAL
2	B6	43	THR
2	B6	44	LEU
2	B6	50	THR
2	B6	59	VAL
2	B6	66	THR
2	B6	67	THR

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Mol	Chain	Res	Type
2	B6	68	SER
2	B6	69	THR
2	B6	82	ASP
2	B6	84	CYS
2	B6	99	LEU
2	B6	107	MET
2	B6	108	ASP
2	B6	121	THR
2	B6	123	ASP
2	B6	125	SER
2	B6	143	THR
2	B6	149	GLU
2	B6	155	ASP
3	C6	3	ASP
3	C6	17	GLU
3	C6	29	LYS
3	C6	31	VAL
3	C6	36	LYS
3	C6	37	ARG
3	C6	38	SER
3	C6	45	THR
3	C6	49	SER
3	C6	62	ASP
3	C6	77	ARG
3	C6	104	VAL
3	C6	107	ASP
3	C6	111	ASN
3	C6	113	LEU
3	C6	141	ILE
3	C6	142	VAL
3	C6	153	CYS
3	C6	156	LEU
3	C6	166	THR
3	C6	172	GLU
2	D6	43	THR
2	D6	44	LEU
2	D6	50	THR
2	D6	59	VAL
2	D6	66	THR
2	D6	67	THR
2	D6	68	SER
2	D6	69	THR

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Mol	Chain	Res	Type
2	D6	82	ASP
2	D6	84	CYS
2	D6	99	LEU
2	D6	107	MET
2	D6	108	ASP
2	D6	121	THR
2	D6	123	ASP
2	D6	125	SER
2	D6	143	THR
2	D6	149	GLU
2	D6	155	ASP
3	E6	3	ASP
3	E6	17	GLU
3	E6	29	LYS
3	E6	31	VAL
3	E6	37	ARG
3	E6	38	SER
3	E6	45	THR
3	E6	49	SER
3	E6	62	ASP
3	E6	77	ARG
3	E6	104	VAL
3	E6	107	ASP
3	E6	111	ASN
3	E6	113	LEU
3	E6	141	ILE
3	E6	142	VAL
3	E6	148	VAL
3	E6	156	LEU
3	E6	166	THR
3	E6	172	GLU
2	F6	43	THR
2	F6	44	LEU
2	F6	50	THR
2	F6	59	VAL
2	F6	66	THR
2	F6	67	THR
2	F6	68	SER
2	F6	69	THR
2	F6	82	ASP
2	F6	84	CYS
2	F6	99	LEU

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Mol	Chain	Res	Type
2	F6	107	MET
2	F6	108	ASP
2	F6	121	THR
2	F6	123	ASP
2	F6	125	SER
2	F6	143	THR
2	F6	149	GLU
2	F6	155	ASP
3	G6	3	ASP
3	G6	17	GLU
3	G6	29	LYS
3	G6	31	VAL
3	G6	37	ARG
3	G6	45	THR
3	G6	49	SER
3	G6	62	ASP
3	G6	77	ARG
3	G6	104	VAL
3	G6	107	ASP
3	G6	111	ASN
3	G6	113	LEU
3	G6	141	ILE
3	G6	142	VAL
3	G6	156	LEU
3	G6	166	THR
3	G6	172	GLU
2	H6	43	THR
2	H6	44	LEU
2	H6	50	THR
2	H6	59	VAL
2	H6	66	THR
2	H6	67	THR
2	H6	68	SER
2	H6	69	THR
2	H6	82	ASP
2	H6	84	CYS
2	H6	99	LEU
2	H6	107	MET
2	H6	108	ASP
2	H6	121	THR
2	H6	123	ASP
2	H6	125	SER

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Mol	Chain	Res	Type
2	H6	143	THR
2	H6	149	GLU
2	H6	155	ASP
3	I6	3	ASP
3	I6	17	GLU
3	I6	29	LYS
3	I6	31	VAL
3	I6	37	ARG
3	I6	45	THR
3	I6	49	SER
3	I6	57	ARG
3	I6	62	ASP
3	I6	77	ARG
3	I6	104	VAL
3	I6	107	ASP
3	I6	113	LEU
3	I6	141	ILE
3	I6	142	VAL
3	I6	156	LEU
3	I6	166	THR
3	I6	172	GLU
2	J6	43	THR
2	J6	44	LEU
2	J6	50	THR
2	J6	59	VAL
2	J6	66	THR
2	J6	67	THR
2	J6	68	SER
2	J6	69	THR
2	J6	82	ASP
2	J6	84	CYS
2	J6	99	LEU
2	J6	107	MET
2	J6	108	ASP
2	J6	121	THR
2	J6	123	ASP
2	J6	125	SER
2	J6	143	THR
2	J6	149	GLU
2	J6	155	ASP
3	K6	3	ASP
3	K6	17	GLU

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Mol	Chain	Res	Type
3	K6	29	LYS
3	K6	31	VAL
3	K6	45	THR
3	K6	49	SER
3	K6	62	ASP
3	K6	77	ARG
3	K6	104	VAL
3	K6	107	ASP
3	K6	111	ASN
3	K6	113	LEU
3	K6	141	ILE
3	K6	142	VAL
3	K6	166	THR
3	K6	172	GLU
2	L6	43	THR
2	L6	44	LEU
2	L6	50	THR
2	L6	59	VAL
2	L6	66	THR
2	L6	67	THR
2	L6	68	SER
2	L6	69	THR
2	L6	82	ASP
2	L6	84	CYS
2	L6	99	LEU
2	L6	107	MET
2	L6	108	ASP
2	L6	121	THR
2	L6	123	ASP
2	L6	125	SER
2	L6	143	THR
2	L6	149	GLU
2	L6	155	ASP
3	M6	3	ASP
3	M6	17	GLU
3	M6	29	LYS
3	M6	31	VAL
3	M6	37	ARG
3	M6	45	THR
3	M6	49	SER
3	M6	62	ASP
3	M6	77	ARG

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Mol	Chain	Res	Type
3	M6	104	VAL
3	M6	107	ASP
3	M6	109	CYS
3	M6	113	LEU
3	M6	141	ILE
3	M6	142	VAL
3	M6	166	THR
3	M6	172	GLU
4	N6	4	THR
4	N6	5	VAL
4	N6	20	VAL
4	N6	48	VAL
4	N6	54	LEU
4	N6	80	LEU
4	N6	113	VAL
4	N6	131	SER
4	N6	150	ILE
4	N6	152	SER
4	N6	162	VAL
4	N6	182	ILE
4	N6	201	VAL
4	N6	202	VAL
4	N6	218	ASP
4	N6	226	LEU
4	N6	257	SER
4	N6	260	VAL
4	N6	275	ILE
2	O6	43	THR
2	O6	44	LEU
2	O6	50	THR
2	O6	59	VAL
2	O6	66	THR
2	O6	67	THR
2	O6	68	SER
2	O6	69	THR
2	O6	82	ASP
2	O6	84	CYS
2	O6	99	LEU
2	O6	107	MET
2	O6	108	ASP
2	O6	121	THR
2	O6	123	ASP

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Mol	Chain	Res	Type
2	O6	125	SER
2	O6	143	THR
2	O6	149	GLU
2	O6	155	ASP
3	P6	3	ASP
3	P6	17	GLU
3	P6	29	LYS
3	P6	31	VAL
3	P6	36	LYS
3	P6	37	ARG
3	P6	38	SER
3	P6	45	THR
3	P6	49	SER
3	P6	62	ASP
3	P6	77	ARG
3	P6	104	VAL
3	P6	107	ASP
3	P6	111	ASN
3	P6	113	LEU
3	P6	141	ILE
3	P6	142	VAL
3	P6	152	ASP
3	P6	156	LEU
3	P6	166	THR
3	P6	172	GLU
2	Q6	43	THR
2	Q6	44	LEU
2	Q6	50	THR
2	Q6	59	VAL
2	Q6	66	THR
2	Q6	67	THR
2	Q6	68	SER
2	Q6	69	THR
2	Q6	82	ASP
2	Q6	84	CYS
2	Q6	99	LEU
2	Q6	107	MET
2	Q6	108	ASP
2	Q6	121	THR
2	Q6	123	ASP
2	Q6	125	SER
2	Q6	143	THR

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Mol	Chain	Res	Type
2	Q6	149	GLU
2	Q6	155	ASP
3	R6	3	ASP
3	R6	17	GLU
3	R6	29	LYS
3	R6	31	VAL
3	R6	36	LYS
3	R6	37	ARG
3	R6	38	SER
3	R6	45	THR
3	R6	49	SER
3	R6	62	ASP
3	R6	77	ARG
3	R6	104	VAL
3	R6	107	ASP
3	R6	111	ASN
3	R6	113	LEU
3	R6	141	ILE
3	R6	142	VAL
3	R6	166	THR
3	R6	172	GLU
2	S6	43	THR
2	S6	44	LEU
2	S6	50	THR
2	S6	59	VAL
2	S6	66	THR
2	S6	67	THR
2	S6	68	SER
2	S6	69	THR
2	S6	82	ASP
2	S6	84	CYS
2	S6	99	LEU
2	S6	107	MET
2	S6	108	ASP
2	S6	121	THR
2	S6	123	ASP
2	S6	125	SER
2	S6	143	THR
2	S6	149	GLU
2	S6	155	ASP
3	T6	3	ASP
3	T6	17	GLU

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Mol	Chain	Res	Type
3	T6	29	LYS
3	T6	31	VAL
3	T6	37	ARG
3	T6	38	SER
3	T6	45	THR
3	T6	49	SER
3	T6	62	ASP
3	T6	77	ARG
3	T6	104	VAL
3	T6	107	ASP
3	T6	111	ASN
3	T6	113	LEU
3	T6	141	ILE
3	T6	142	VAL
3	T6	166	THR
3	T6	172	GLU
2	U6	43	THR
2	U6	44	LEU
2	U6	50	THR
2	U6	59	VAL
2	U6	66	THR
2	U6	67	THR
2	U6	68	SER
2	U6	69	THR
2	U6	82	ASP
2	U6	84	CYS
2	U6	99	LEU
2	U6	107	MET
2	U6	108	ASP
2	U6	121	THR
2	U6	123	ASP
2	U6	125	SER
2	U6	143	THR
2	U6	149	GLU
2	U6	155	ASP
3	V6	3	ASP
3	V6	17	GLU
3	V6	29	LYS
3	V6	31	VAL
3	V6	37	ARG
3	V6	38	SER
3	V6	45	THR

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Mol	Chain	Res	Type
3	V6	49	SER
3	V6	57	ARG
3	V6	62	ASP
3	V6	77	ARG
3	V6	104	VAL
3	V6	107	ASP
3	V6	111	ASN
3	V6	113	LEU
3	V6	141	ILE
3	V6	142	VAL
3	V6	166	THR
3	V6	172	GLU
2	W6	43	THR
2	W6	44	LEU
2	W6	50	THR
2	W6	59	VAL
2	W6	66	THR
2	W6	67	THR
2	W6	68	SER
2	W6	69	THR
2	W6	82	ASP
2	W6	84	CYS
2	W6	99	LEU
2	W6	107	MET
2	W6	108	ASP
2	W6	121	THR
2	W6	123	ASP
2	W6	125	SER
2	W6	143	THR
2	W6	149	GLU
2	W6	155	ASP
3	X6	3	ASP
3	X6	17	GLU
3	X6	29	LYS
3	X6	31	VAL
3	X6	37	ARG
3	X6	38	SER
3	X6	45	THR
3	X6	49	SER
3	X6	62	ASP
3	X6	77	ARG
3	X6	104	VAL

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Mol	Chain	Res	Type
3	X6	107	ASP
3	X6	113	LEU
3	X6	141	ILE
3	X6	142	VAL
3	X6	148	VAL
3	X6	166	THR
3	X6	172	GLU
2	Y6	43	THR
2	Y6	44	LEU
2	Y6	50	THR
2	Y6	59	VAL
2	Y6	66	THR
2	Y6	67	THR
2	Y6	68	SER
2	Y6	69	THR
2	Y6	82	ASP
2	Y6	84	CYS
2	Y6	99	LEU
2	Y6	107	MET
2	Y6	108	ASP
2	Y6	121	THR
2	Y6	123	ASP
2	Y6	125	SER
2	Y6	143	THR
2	Y6	149	GLU
2	Y6	155	ASP
3	Z6	3	ASP
3	Z6	17	GLU
3	Z6	29	LYS
3	Z6	31	VAL
3	Z6	37	ARG
3	Z6	38	SER
3	Z6	45	THR
3	Z6	49	SER
3	Z6	62	ASP
3	Z6	77	ARG
3	Z6	104	VAL
3	Z6	107	ASP
3	Z6	111	ASN
3	Z6	113	LEU
3	Z6	141	ILE
3	Z6	142	VAL

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Mol	Chain	Res	Type
3	Z6	148	VAL
3	Z6	156	LEU
3	Z6	166	THR
3	Z6	172	GLU
4	a6	232	LEU
4	a6	263	VAL
7	A7	12	ASP
7	A7	19	SER
7	A7	30	VAL
7	A7	37	LEU
7	A7	43	LEU
7	A7	46	SER
7	A7	51	ILE
7	A7	64	ASP
7	A7	66	VAL
7	A7	75	GLU
7	A7	80	THR
7	A7	96	VAL
7	A7	97	VAL
7	A7	104	ILE
7	A7	110	VAL
7	A7	117	LYS
7	A7	118	SER
7	A7	123	VAL
7	A7	124	ASP
7	A7	142	SER
7	A7	154	ASP
8	B7	3	ASP
8	B7	6	THR
8	B7	11	SER
8	B7	14	VAL
8	B7	25	ASP
8	B7	36	LEU
8	B7	43	THR
8	B7	52	VAL
8	B7	59	SER
8	B7	63	SER
8	B7	106	GLU
8	B7	135	GLU
8	B7	137	THR
8	B7	141	VAL
8	B7	144	ASP

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Mol	Chain	Res	Type
8	B7	151	VAL
8	B7	158	SER
8	B7	160	LEU
8	B7	161	SER
7	C7	12	ASP
7	C7	19	SER
7	C7	30	VAL
7	C7	37	LEU
7	C7	43	LEU
7	C7	46	SER
7	C7	51	ILE
7	C7	64	ASP
7	C7	66	VAL
7	C7	75	GLU
7	C7	80	THR
7	C7	96	VAL
7	C7	97	VAL
7	C7	104	ILE
7	C7	110	VAL
7	C7	118	SER
7	C7	123	VAL
7	C7	124	ASP
7	C7	142	SER
7	C7	154	ASP
8	D7	3	ASP
8	D7	6	THR
8	D7	11	SER
8	D7	14	VAL
8	D7	25	ASP
8	D7	36	LEU
8	D7	43	THR
8	D7	52	VAL
8	D7	59	SER
8	D7	63	SER
8	D7	106	GLU
8	D7	135	GLU
8	D7	137	THR
8	D7	141	VAL
8	D7	144	ASP
8	D7	151	VAL
8	D7	158	SER
8	D7	160	LEU

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Mol	Chain	Res	Type
8	D7	161	SER
7	E7	12	ASP
7	E7	19	SER
7	E7	30	VAL
7	E7	37	LEU
7	E7	43	LEU
7	E7	46	SER
7	E7	51	ILE
7	E7	64	ASP
7	E7	66	VAL
7	E7	75	GLU
7	E7	80	THR
7	E7	96	VAL
7	E7	97	VAL
7	E7	104	ILE
7	E7	110	VAL
7	E7	118	SER
7	E7	123	VAL
7	E7	124	ASP
7	E7	142	SER
7	E7	154	ASP
8	F7	3	ASP
8	F7	6	THR
8	F7	11	SER
8	F7	14	VAL
8	F7	25	ASP
8	F7	36	LEU
8	F7	43	THR
8	F7	52	VAL
8	F7	59	SER
8	F7	63	SER
8	F7	106	GLU
8	F7	135	GLU
8	F7	137	THR
8	F7	141	VAL
8	F7	144	ASP
8	F7	151	VAL
8	F7	158	SER
8	F7	160	LEU
8	F7	161	SER
6	G7	18	THR
6	G7	20	ARG

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Mol	Chain	Res	Type
6	G7	30	LEU
6	G7	46	MET
6	G7	55	LEU
6	G7	57	THR
6	G7	59	LYS
7	H7	12	ASP
7	H7	19	SER
7	H7	30	VAL
7	H7	37	LEU
7	H7	43	LEU
7	H7	46	SER
7	H7	51	ILE
7	H7	64	ASP
7	H7	66	VAL
7	H7	75	GLU
7	H7	80	THR
7	H7	96	VAL
7	H7	97	VAL
7	H7	104	ILE
7	H7	110	VAL
7	H7	117	LYS
7	H7	118	SER
7	H7	123	VAL
7	H7	124	ASP
7	H7	142	SER
7	H7	154	ASP
8	I7	3	ASP
8	I7	6	THR
8	I7	11	SER
8	I7	14	VAL
8	I7	25	ASP
8	I7	36	LEU
8	I7	43	THR
8	I7	52	VAL
8	I7	59	SER
8	I7	63	SER
8	I7	106	GLU
8	I7	135	GLU
8	I7	137	THR
8	I7	141	VAL
8	I7	144	ASP
8	I7	151	VAL

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Mol	Chain	Res	Type
8	I7	158	SER
8	I7	160	LEU
8	I7	161	SER
7	J7	12	ASP
7	J7	19	SER
7	J7	30	VAL
7	J7	37	LEU
7	J7	43	LEU
7	J7	46	SER
7	J7	51	ILE
7	J7	64	ASP
7	J7	66	VAL
7	J7	75	GLU
7	J7	80	THR
7	J7	96	VAL
7	J7	97	VAL
7	J7	104	ILE
7	J7	110	VAL
7	J7	118	SER
7	J7	123	VAL
7	J7	124	ASP
7	J7	142	SER
7	J7	154	ASP
8	K7	3	ASP
8	K7	6	THR
8	K7	11	SER
8	K7	14	VAL
8	K7	25	ASP
8	K7	36	LEU
8	K7	43	THR
8	K7	52	VAL
8	K7	59	SER
8	K7	63	SER
8	K7	106	GLU
8	K7	135	GLU
8	K7	137	THR
8	K7	141	VAL
8	K7	144	ASP
8	K7	151	VAL
8	K7	158	SER
8	K7	160	LEU
8	K7	161	SER

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Mol	Chain	Res	Type
7	L7	12	ASP
7	L7	19	SER
7	L7	30	VAL
7	L7	37	LEU
7	L7	43	LEU
7	L7	46	SER
7	L7	51	ILE
7	L7	64	ASP
7	L7	66	VAL
7	L7	75	GLU
7	L7	80	THR
7	L7	96	VAL
7	L7	97	VAL
7	L7	104	ILE
7	L7	110	VAL
7	L7	118	SER
7	L7	123	VAL
7	L7	124	ASP
7	L7	142	SER
7	L7	154	ASP
8	M7	3	ASP
8	M7	6	THR
8	M7	11	SER
8	M7	14	VAL
8	M7	25	ASP
8	M7	36	LEU
8	M7	43	THR
8	M7	52	VAL
8	M7	59	SER
8	M7	63	SER
8	M7	106	GLU
8	M7	135	GLU
8	M7	137	THR
8	M7	141	VAL
8	M7	144	ASP
8	M7	151	VAL
8	M7	158	SER
8	M7	160	LEU
8	M7	161	SER
6	N7	12	SER
6	N7	22	LEU
7	O7	12	ASP

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Mol	Chain	Res	Type
7	O7	19	SER
7	O7	30	VAL
7	O7	37	LEU
7	O7	43	LEU
7	O7	46	SER
7	O7	51	ILE
7	O7	64	ASP
7	O7	66	VAL
7	O7	75	GLU
7	O7	80	THR
7	O7	96	VAL
7	O7	97	VAL
7	O7	104	ILE
7	O7	110	VAL
7	O7	117	LYS
7	O7	118	SER
7	O7	123	VAL
7	O7	124	ASP
7	O7	142	SER
7	O7	154	ASP
8	P7	3	ASP
8	P7	6	THR
8	P7	11	SER
8	P7	14	VAL
8	P7	25	ASP
8	P7	36	LEU
8	P7	43	THR
8	P7	52	VAL
8	P7	59	SER
8	P7	63	SER
8	P7	106	GLU
8	P7	135	GLU
8	P7	137	THR
8	P7	141	VAL
8	P7	144	ASP
8	P7	151	VAL
8	P7	158	SER
8	P7	160	LEU
8	P7	161	SER
7	Q7	12	ASP
7	Q7	19	SER
7	Q7	30	VAL

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Mol	Chain	Res	Type
7	Q7	37	LEU
7	Q7	43	LEU
7	Q7	46	SER
7	Q7	51	ILE
7	Q7	64	ASP
7	Q7	66	VAL
7	Q7	75	GLU
7	Q7	80	THR
7	Q7	96	VAL
7	Q7	97	VAL
7	Q7	104	ILE
7	Q7	110	VAL
7	Q7	118	SER
7	Q7	123	VAL
7	Q7	124	ASP
7	Q7	142	SER
7	Q7	154	ASP
8	R7	3	ASP
8	R7	6	THR
8	R7	11	SER
8	R7	14	VAL
8	R7	25	ASP
8	R7	36	LEU
8	R7	43	THR
8	R7	52	VAL
8	R7	59	SER
8	R7	63	SER
8	R7	106	GLU
8	R7	135	GLU
8	R7	137	THR
8	R7	141	VAL
8	R7	144	ASP
8	R7	151	VAL
8	R7	158	SER
8	R7	160	LEU
8	R7	161	SER
7	S7	12	ASP
7	S7	19	SER
7	S7	25	ARG
7	S7	30	VAL
7	S7	37	LEU
7	S7	43	LEU

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Mol	Chain	Res	Type
7	S7	46	SER
7	S7	51	ILE
7	S7	64	ASP
7	S7	66	VAL
7	S7	75	GLU
7	S7	80	THR
7	S7	96	VAL
7	S7	97	VAL
7	S7	104	ILE
7	S7	110	VAL
7	S7	118	SER
7	S7	123	VAL
7	S7	124	ASP
7	S7	142	SER
7	S7	154	ASP
8	T7	3	ASP
8	T7	6	THR
8	T7	11	SER
8	T7	14	VAL
8	T7	25	ASP
8	T7	36	LEU
8	T7	43	THR
8	T7	52	VAL
8	T7	59	SER
8	T7	63	SER
8	T7	106	GLU
8	T7	135	GLU
8	T7	137	THR
8	T7	141	VAL
8	T7	144	ASP
8	T7	151	VAL
8	T7	158	SER
8	T7	160	LEU
8	T7	161	SER
6	U7	14	SER
6	U7	35	ASN
6	U7	51	VAL
6	U7	62	THR
7	V7	12	ASP
7	V7	19	SER
7	V7	30	VAL
7	V7	37	LEU

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Mol	Chain	Res	Type
7	V7	43	LEU
7	V7	46	SER
7	V7	51	ILE
7	V7	64	ASP
7	V7	66	VAL
7	V7	75	GLU
7	V7	80	THR
7	V7	96	VAL
7	V7	97	VAL
7	V7	104	ILE
7	V7	110	VAL
7	V7	118	SER
7	V7	123	VAL
7	V7	124	ASP
7	V7	142	SER
7	V7	154	ASP
8	W7	3	ASP
8	W7	6	THR
8	W7	11	SER
8	W7	14	VAL
8	W7	25	ASP
8	W7	36	LEU
8	W7	43	THR
8	W7	52	VAL
8	W7	59	SER
8	W7	63	SER
8	W7	106	GLU
8	W7	135	GLU
8	W7	137	THR
8	W7	141	VAL
8	W7	144	ASP
8	W7	151	VAL
8	W7	158	SER
8	W7	160	LEU
8	W7	161	SER
7	X7	12	ASP
7	X7	19	SER
7	X7	30	VAL
7	X7	37	LEU
7	X7	43	LEU
7	X7	46	SER
7	X7	51	ILE

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Mol	Chain	Res	Type
7	X7	66	VAL
7	X7	75	GLU
7	X7	80	THR
7	X7	96	VAL
7	X7	97	VAL
7	X7	104	ILE
7	X7	110	VAL
7	X7	117	LYS
7	X7	118	SER
7	X7	123	VAL
7	X7	124	ASP
7	X7	142	SER
7	X7	154	ASP
8	Y7	3	ASP
8	Y7	6	THR
8	Y7	11	SER
8	Y7	14	VAL
8	Y7	25	ASP
8	Y7	36	LEU
8	Y7	43	THR
8	Y7	52	VAL
8	Y7	59	SER
8	Y7	63	SER
8	Y7	106	GLU
8	Y7	135	GLU
8	Y7	137	THR
8	Y7	141	VAL
8	Y7	144	ASP
8	Y7	151	VAL
8	Y7	158	SER
8	Y7	160	LEU
8	Y7	161	SER
7	Z7	12	ASP
7	Z7	19	SER
7	Z7	30	VAL
7	Z7	37	LEU
7	Z7	43	LEU
7	Z7	46	SER
7	Z7	51	ILE
7	Z7	64	ASP
7	Z7	66	VAL
7	Z7	75	GLU

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Mol	Chain	Res	Type
7	Z7	80	THR
7	Z7	96	VAL
7	Z7	97	VAL
7	Z7	104	ILE
7	Z7	110	VAL
7	Z7	118	SER
7	Z7	123	VAL
7	Z7	124	ASP
7	Z7	142	SER
7	Z7	154	ASP
8	a7	3	ASP
8	a7	6	THR
8	a7	11	SER
8	a7	14	VAL
8	a7	25	ASP
8	a7	36	LEU
8	a7	43	THR
8	a7	52	VAL
8	a7	59	SER
8	a7	63	SER
8	a7	106	GLU
8	a7	135	GLU
8	a7	137	THR
8	a7	141	VAL
8	a7	144	ASP
8	a7	151	VAL
8	a7	158	SER
8	a7	160	LEU
8	a7	161	SER
6	b7	34	ASP
6	b7	53	VAL
1	A8	196	TRP
1	A8	203	PHE
1	A8	211	GLN
2	B8	23	GLU
2	B8	27	LEU
2	B8	31	LEU
2	B8	39	GLU
2	B8	44	LEU
2	B8	47	LYS
2	B8	50	THR
2	B8	52	VAL

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Mol	Chain	Res	Type
2	B8	57	GLN
2	B8	59	VAL
2	B8	66	THR
2	B8	100	VAL
2	B8	123	ASP
2	B8	131	GLU
2	B8	151	ASN
3	C8	6	THR
3	C8	25	GLU
3	C8	47	ASN
3	C8	52	VAL
3	C8	77	ARG
3	C8	99	THR
3	C8	103	SER
3	C8	116	THR
3	C8	158	GLN
3	C8	160	ILE
3	C8	161	GLU
2	D8	19	LEU
2	D8	23	GLU
2	D8	31	LEU
2	D8	39	GLU
2	D8	44	LEU
2	D8	47	LYS
2	D8	50	THR
2	D8	52	VAL
2	D8	57	GLN
2	D8	59	VAL
2	D8	66	THR
2	D8	100	VAL
2	D8	123	ASP
2	D8	131	GLU
2	D8	148	THR
2	D8	151	ASN
3	E8	6	THR
3	E8	25	GLU
3	E8	52	VAL
3	E8	77	ARG
3	E8	99	THR
3	E8	103	SER
3	E8	116	THR
3	E8	148	VAL

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Mol	Chain	Res	Type
3	E8	152	ASP
3	E8	158	GLN
3	E8	160	ILE
3	E8	161	GLU
2	F8	20	SER
2	F8	21	ASN
2	F8	31	LEU
2	F8	39	GLU
2	F8	44	LEU
2	F8	47	LYS
2	F8	50	THR
2	F8	52	VAL
2	F8	57	GLN
2	F8	59	VAL
2	F8	66	THR
2	F8	100	VAL
2	F8	123	ASP
2	F8	131	GLU
2	F8	149	GLU
2	F8	151	ASN
3	G8	6	THR
3	G8	25	GLU
3	G8	52	VAL
3	G8	77	ARG
3	G8	99	THR
3	G8	103	SER
3	G8	116	THR
3	G8	141	ILE
3	G8	142	VAL
3	G8	143	MET
3	G8	158	GLN
3	G8	160	ILE
3	G8	161	GLU
2	H8	19	LEU
2	H8	24	LEU
2	H8	31	LEU
2	H8	39	GLU
2	H8	44	LEU
2	H8	47	LYS
2	H8	50	THR
2	H8	52	VAL
2	H8	57	GLN

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Mol	Chain	Res	Type
2	H8	59	VAL
2	H8	66	THR
2	H8	100	VAL
2	H8	123	ASP
2	H8	131	GLU
2	H8	145	ASP
3	I8	6	THR
3	I8	25	GLU
3	I8	52	VAL
3	I8	77	ARG
3	I8	99	THR
3	I8	103	SER
3	I8	116	THR
3	I8	142	VAL
3	I8	152	ASP
3	I8	153	CYS
3	I8	158	GLN
3	I8	160	ILE
3	I8	161	GLU
2	J8	18	PHE
2	J8	19	LEU
2	J8	23	GLU
2	J8	31	LEU
2	J8	39	GLU
2	J8	44	LEU
2	J8	47	LYS
2	J8	50	THR
2	J8	52	VAL
2	J8	57	GLN
2	J8	59	VAL
2	J8	66	THR
2	J8	100	VAL
2	J8	123	ASP
2	J8	131	GLU
2	J8	148	THR
3	K8	6	THR
3	K8	25	GLU
3	K8	52	VAL
3	K8	77	ARG
3	K8	99	THR
3	K8	103	SER
3	K8	116	THR

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Mol	Chain	Res	Type
3	K8	142	VAL
3	K8	144	ASP
3	K8	148	VAL
3	K8	158	GLN
3	K8	160	ILE
3	K8	161	GLU
2	L8	19	LEU
2	L8	31	LEU
2	L8	39	GLU
2	L8	44	LEU
2	L8	47	LYS
2	L8	50	THR
2	L8	52	VAL
2	L8	57	GLN
2	L8	59	VAL
2	L8	66	THR
2	L8	100	VAL
2	L8	123	ASP
2	L8	131	GLU
2	L8	149	GLU
2	L8	151	ASN
3	M8	6	THR
3	M8	25	GLU
3	M8	52	VAL
3	M8	99	THR
3	M8	103	SER
3	M8	116	THR
3	M8	142	VAL
3	M8	149	THR
3	M8	152	ASP
3	M8	158	GLN
3	M8	160	ILE
3	M8	161	GLU
4	N8	2	PRO
4	N8	68	VAL
2	O8	18	PHE
2	O8	19	LEU
2	O8	23	GLU
2	O8	31	LEU
2	O8	39	GLU
2	O8	44	LEU
2	O8	47	LYS

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Mol	Chain	Res	Type
2	O8	50	THR
2	O8	52	VAL
2	O8	57	GLN
2	O8	59	VAL
2	O8	66	THR
2	O8	100	VAL
2	O8	123	ASP
2	O8	131	GLU
2	O8	148	THR
3	P8	6	THR
3	P8	25	GLU
3	P8	52	VAL
3	P8	77	ARG
3	P8	99	THR
3	P8	103	SER
3	P8	116	THR
3	P8	152	ASP
3	P8	158	GLN
3	P8	160	ILE
3	P8	161	GLU
2	Q8	23	GLU
2	Q8	31	LEU
2	Q8	39	GLU
2	Q8	44	LEU
2	Q8	47	LYS
2	Q8	50	THR
2	Q8	52	VAL
2	Q8	57	GLN
2	Q8	59	VAL
2	Q8	66	THR
2	Q8	100	VAL
2	Q8	123	ASP
2	Q8	131	GLU
2	Q8	142	LEU
2	Q8	149	GLU
3	R8	6	THR
3	R8	25	GLU
3	R8	52	VAL
3	R8	77	ARG
3	R8	99	THR
3	R8	103	SER
3	R8	116	THR

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Mol	Chain	Res	Type
3	R8	158	GLN
3	R8	160	ILE
3	R8	161	GLU
2	S8	25	GLN
2	S8	31	LEU
2	S8	32	ARG
2	S8	39	GLU
2	S8	44	LEU
2	S8	47	LYS
2	S8	50	THR
2	S8	52	VAL
2	S8	57	GLN
2	S8	59	VAL
2	S8	66	THR
2	S8	100	VAL
2	S8	123	ASP
2	S8	131	GLU
3	T8	6	THR
3	T8	25	GLU
3	T8	52	VAL
3	T8	77	ARG
3	T8	99	THR
3	T8	103	SER
3	T8	116	THR
3	T8	142	VAL
3	T8	158	GLN
3	T8	160	ILE
3	T8	161	GLU
2	U8	19	LEU
2	U8	31	LEU
2	U8	39	GLU
2	U8	44	LEU
2	U8	47	LYS
2	U8	50	THR
2	U8	52	VAL
2	U8	57	GLN
2	U8	59	VAL
2	U8	66	THR
2	U8	100	VAL
2	U8	123	ASP
2	U8	131	GLU
2	U8	151	ASN

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Mol	Chain	Res	Type
3	V8	6	THR
3	V8	25	GLU
3	V8	39	ASP
3	V8	52	VAL
3	V8	77	ARG
3	V8	99	THR
3	V8	103	SER
3	V8	116	THR
3	V8	160	ILE
3	V8	161	GLU
2	W8	21	ASN
2	W8	31	LEU
2	W8	39	GLU
2	W8	44	LEU
2	W8	47	LYS
2	W8	50	THR
2	W8	52	VAL
2	W8	57	GLN
2	W8	59	VAL
2	W8	66	THR
2	W8	100	VAL
2	W8	123	ASP
2	W8	131	GLU
2	W8	151	ASN
3	X8	6	THR
3	X8	25	GLU
3	X8	52	VAL
3	X8	77	ARG
3	X8	99	THR
3	X8	103	SER
3	X8	116	THR
3	X8	152	ASP
3	X8	160	ILE
3	X8	161	GLU
2	Y8	19	LEU
2	Y8	31	LEU
2	Y8	39	GLU
2	Y8	44	LEU
2	Y8	47	LYS
2	Y8	50	THR
2	Y8	52	VAL
2	Y8	57	GLN

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Mol	Chain	Res	Type
2	Y8	59	VAL
2	Y8	66	THR
2	Y8	100	VAL
2	Y8	123	ASP
2	Y8	131	GLU
2	Y8	139	ASN
2	Y8	149	GLU
3	Z8	6	THR
3	Z8	25	GLU
3	Z8	52	VAL
3	Z8	77	ARG
3	Z8	99	THR
3	Z8	103	SER
3	Z8	116	THR
3	Z8	142	VAL
3	Z8	143	MET
3	Z8	158	GLN
3	Z8	160	ILE
3	Z8	161	GLU
4	a8	248	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (522) such sidechains are listed below:

Mol	Chain	Res	Type
1	A1	52	GLN
1	A1	63	GLN
1	A1	74	GLN
1	A1	188	GLN
1	A1	211	GLN
2	B1	21	ASN
2	B1	53	ASN
2	B1	72	ASN
3	C1	47	ASN
3	C1	72	ASN
3	C1	76	ASN
2	D1	21	ASN
2	D1	53	ASN
2	D1	72	ASN
2	D1	152	ASN
3	E1	47	ASN
3	E1	72	ASN
2	F1	53	ASN

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Mol	Chain	Res	Type
3	G1	47	ASN
3	G1	72	ASN
2	H1	21	ASN
2	H1	53	ASN
2	H1	152	ASN
3	I1	47	ASN
3	I1	72	ASN
2	J1	53	ASN
2	J1	57	GLN
2	J1	72	ASN
3	K1	47	ASN
3	K1	72	ASN
3	K1	76	ASN
2	L1	53	ASN
3	M1	11	GLN
3	M1	47	ASN
3	M1	72	ASN
4	N1	91	GLN
4	N1	121	GLN
4	N1	171	GLN
4	N1	224	GLN
4	N1	273	GLN
2	O1	21	ASN
2	O1	53	ASN
2	O1	72	ASN
3	P1	47	ASN
3	P1	72	ASN
2	Q1	21	ASN
2	Q1	53	ASN
2	Q1	72	ASN
2	Q1	152	ASN
3	R1	11	GLN
3	R1	47	ASN
3	R1	72	ASN
3	R1	76	ASN
2	S1	25	GLN
2	S1	53	ASN
3	T1	47	ASN
3	T1	72	ASN
2	U1	21	ASN
2	U1	53	ASN
3	V1	47	ASN

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Mol	Chain	Res	Type
3	V1	72	ASN
3	V1	76	ASN
2	W1	21	ASN
2	W1	53	ASN
2	W1	72	ASN
3	X1	47	ASN
3	X1	72	ASN
3	X1	76	ASN
2	Y1	21	ASN
2	Y1	53	ASN
3	Z1	46	ASN
3	Z1	47	ASN
3	Z1	72	ASN
3	Z1	76	ASN
1	A2	63	GLN
1	A2	100	ASN
1	A2	193	GLN
2	B2	119	ASN
3	C2	63	GLN
3	C2	72	ASN
2	D2	119	ASN
3	E2	63	GLN
3	E2	72	ASN
2	F2	119	ASN
3	G2	63	GLN
3	G2	72	ASN
2	H2	119	ASN
3	I2	63	GLN
3	I2	72	ASN
2	J2	119	ASN
3	K2	63	GLN
3	K2	72	ASN
2	L2	119	ASN
3	M2	11	GLN
3	M2	63	GLN
3	M2	72	ASN
4	N2	89	ASN
4	N2	91	GLN
4	N2	121	GLN
4	N2	141	ASN
4	N2	191	GLN
2	O2	119	ASN

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Mol	Chain	Res	Type
3	P2	63	GLN
3	P2	72	ASN
2	Q2	119	ASN
3	R2	63	GLN
3	R2	72	ASN
2	S2	119	ASN
3	T2	63	GLN
3	T2	65	GLN
3	T2	72	ASN
2	U2	119	ASN
3	V2	63	GLN
3	V2	72	ASN
2	W2	119	ASN
3	X2	63	GLN
3	X2	72	ASN
2	Y2	119	ASN
3	Z2	63	GLN
3	Z2	72	ASN
5	03	18	GLN
5	03	238	GLN
5	03	245	GLN
5	03	284	GLN
5	03	328	GLN
5	03	402	GLN
5	03	410	GLN
5	03	425	GLN
5	03	440	GLN
5	03	522	ASN
5	03	597	HIS
5	03	751	GLN
5	03	780	GLN
5	03	808	GLN
5	03	832	ASN
5	03	839	ASN
5	13	18	GLN
5	13	233	ASN
5	13	238	GLN
5	13	245	GLN
5	13	284	GLN
5	13	402	GLN
5	13	410	GLN
5	13	425	GLN

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Mol	Chain	Res	Type
5	13	440	GLN
5	13	522	ASN
5	13	597	HIS
5	13	751	GLN
5	13	761	ASN
5	13	780	GLN
5	13	808	GLN
5	13	815	ASN
5	13	832	ASN
5	13	839	ASN
6	23	63	ASN
6	33	24	ASN
6	33	63	ASN
8	H3	10	ASN
8	H3	71	ASN
8	J3	110	ASN
8	L3	15	GLN
8	L3	71	ASN
8	M3	47	ASN
8	M3	71	ASN
8	O3	47	ASN
8	O3	71	ASN
9	Q3	72	ASN
9	Q3	111	GLN
9	Q3	132	GLN
9	Q3	159	HIS
8	S3	47	ASN
8	S3	71	ASN
8	U3	47	ASN
8	U3	71	ASN
10	V3	55	GLN
10	V3	71	ASN
8	W3	47	ASN
8	W3	71	ASN
8	W3	110	ASN
8	Y3	110	ASN
8	a3	71	ASN
8	c3	10	ASN
8	c3	71	ASN
8	e3	47	ASN
8	e3	71	ASN
9	g3	72	ASN

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Mol	Chain	Res	Type
9	g3	111	GLN
9	g3	132	GLN
9	g3	159	HIS
8	h3	47	ASN
8	h3	71	ASN
8	j3	47	ASN
8	j3	71	ASN
8	l3	47	ASN
8	l3	71	ASN
10	m3	55	GLN
10	m3	71	ASN
10	m3	117	ASN
8	n3	47	ASN
8	n3	71	ASN
8	n3	110	ASN
8	p3	71	ASN
8	p3	110	ASN
8	r3	47	ASN
8	t3	10	ASN
8	t3	71	ASN
8	t3	128	GLN
8	v3	71	ASN
8	x3	47	ASN
8	z3	10	ASN
8	z3	71	ASN
1	A4	13	GLN
1	A4	35	ASN
1	A4	52	GLN
1	A4	63	GLN
1	A4	64	GLN
1	A4	74	GLN
1	A4	150	ASN
1	A4	188	GLN
1	A4	197	GLN
2	B4	15	GLN
2	B4	21	ASN
2	B4	53	ASN
2	B4	151	ASN
2	B4	152	ASN
3	C4	46	ASN
2	D4	25	GLN
2	D4	53	ASN

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Mol	Chain	Res	Type
2	D4	72	ASN
2	D4	151	ASN
3	E4	47	ASN
2	F4	53	ASN
2	F4	57	GLN
2	F4	151	ASN
2	F4	152	ASN
3	G4	47	ASN
2	H4	25	GLN
2	H4	53	ASN
2	H4	151	ASN
2	J4	15	GLN
2	J4	53	ASN
2	J4	151	ASN
3	K4	65	GLN
2	L4	25	GLN
2	L4	53	ASN
2	L4	151	ASN
2	L4	152	ASN
4	N4	45	ASN
4	N4	77	GLN
4	N4	89	ASN
4	N4	91	GLN
4	N4	116	HIS
4	N4	130	ASN
4	N4	141	ASN
4	N4	156	GLN
4	N4	290	GLN
2	O4	25	GLN
2	O4	53	ASN
2	O4	72	ASN
2	O4	151	ASN
2	O4	152	ASN
3	P4	65	GLN
2	Q4	15	GLN
2	Q4	53	ASN
2	Q4	140	HIS
2	Q4	151	ASN
2	Q4	152	ASN
3	R4	65	GLN
2	S4	25	GLN
2	S4	53	ASN

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Mol	Chain	Res	Type
2	S4	151	ASN
2	U4	25	GLN
2	U4	53	ASN
2	U4	151	ASN
2	U4	152	ASN
3	V4	46	ASN
2	W4	53	ASN
2	W4	151	ASN
2	W4	152	ASN
2	Y4	53	ASN
2	Y4	139	ASN
2	Y4	140	HIS
2	Y4	152	ASN
3	Z4	47	ASN
3	Z4	157	GLN
1	A5	52	GLN
1	A5	63	GLN
1	A5	74	GLN
1	A5	188	GLN
1	A5	211	GLN
1	A5	226	GLN
2	B5	21	ASN
2	B5	53	ASN
2	B5	72	ASN
3	C5	47	ASN
3	C5	72	ASN
3	C5	76	ASN
2	D5	21	ASN
2	D5	53	ASN
2	D5	72	ASN
2	D5	152	ASN
3	E5	47	ASN
3	E5	72	ASN
2	F5	53	ASN
3	G5	47	ASN
3	G5	72	ASN
2	H5	21	ASN
2	H5	53	ASN
2	H5	152	ASN
3	I5	47	ASN
3	I5	72	ASN
2	J5	53	ASN

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Mol	Chain	Res	Type
2	J5	57	GLN
2	J5	72	ASN
3	K5	47	ASN
3	K5	72	ASN
3	K5	76	ASN
2	L5	53	ASN
3	M5	11	GLN
3	M5	47	ASN
3	M5	72	ASN
4	N5	88	ASN
4	N5	91	GLN
4	N5	121	GLN
4	N5	171	GLN
4	N5	224	GLN
4	N5	273	GLN
2	O5	21	ASN
2	O5	53	ASN
2	O5	72	ASN
3	P5	47	ASN
3	P5	72	ASN
2	Q5	21	ASN
2	Q5	53	ASN
2	Q5	72	ASN
2	Q5	152	ASN
3	R5	11	GLN
3	R5	47	ASN
3	R5	72	ASN
3	R5	76	ASN
2	S5	25	GLN
2	S5	53	ASN
3	T5	47	ASN
3	T5	72	ASN
2	U5	21	ASN
2	U5	53	ASN
3	V5	47	ASN
3	V5	72	ASN
3	V5	76	ASN
2	W5	21	ASN
2	W5	53	ASN
2	W5	72	ASN
3	X5	47	ASN
3	X5	72	ASN

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Mol	Chain	Res	Type
3	X5	76	ASN
2	Y5	21	ASN
2	Y5	53	ASN
3	Z5	46	ASN
3	Z5	47	ASN
3	Z5	72	ASN
3	Z5	76	ASN
1	A6	63	GLN
1	A6	100	ASN
2	B6	119	ASN
3	C6	63	GLN
3	C6	72	ASN
2	D6	119	ASN
3	E6	63	GLN
3	E6	72	ASN
2	F6	119	ASN
3	G6	63	GLN
3	G6	72	ASN
2	H6	119	ASN
3	I6	63	GLN
3	I6	72	ASN
2	J6	119	ASN
3	K6	63	GLN
3	K6	65	GLN
3	K6	72	ASN
2	L6	119	ASN
3	M6	11	GLN
3	M6	63	GLN
3	M6	72	ASN
4	N6	91	GLN
4	N6	121	GLN
4	N6	141	ASN
4	N6	191	GLN
2	O6	25	GLN
2	O6	119	ASN
3	P6	63	GLN
3	P6	72	ASN
2	Q6	119	ASN
3	R6	63	GLN
3	R6	72	ASN
2	S6	119	ASN
3	T6	63	GLN

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Mol	Chain	Res	Type
3	T6	65	GLN
3	T6	72	ASN
2	U6	119	ASN
3	V6	63	GLN
3	V6	72	ASN
2	W6	119	ASN
3	X6	63	GLN
3	X6	72	ASN
2	Y6	119	ASN
3	Z6	63	GLN
3	Z6	72	ASN
7	A7	10	ASN
7	A7	71	ASN
8	B7	2	GLN
7	C7	71	ASN
8	D7	10	ASN
8	D7	47	ASN
8	D7	110	ASN
7	E7	71	ASN
8	F7	2	GLN
8	F7	47	ASN
7	H7	10	ASN
7	H7	71	ASN
8	I7	2	GLN
7	J7	71	ASN
8	K7	10	ASN
8	K7	47	ASN
7	L7	71	ASN
8	M7	2	GLN
8	M7	47	ASN
7	O7	10	ASN
7	O7	71	ASN
8	P7	2	GLN
8	P7	10	ASN
7	Q7	71	ASN
8	R7	2	GLN
7	S7	71	ASN
8	T7	2	GLN
6	U7	23	GLN
6	U7	24	ASN
6	U7	35	ASN
7	V7	10	ASN

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Mol	Chain	Res	Type
7	V7	71	ASN
8	W7	2	GLN
8	W7	10	ASN
7	X7	71	ASN
8	Y7	2	GLN
7	Z7	71	ASN
8	a7	2	GLN
8	a7	110	ASN
6	b7	13	GLN
6	b7	23	GLN
1	A8	13	GLN
1	A8	35	ASN
1	A8	52	GLN
1	A8	63	GLN
1	A8	64	GLN
1	A8	74	GLN
1	A8	188	GLN
1	A8	197	GLN
2	B8	15	GLN
2	B8	21	ASN
2	B8	53	ASN
2	B8	151	ASN
2	B8	152	ASN
3	C8	46	ASN
2	D8	25	GLN
2	D8	53	ASN
2	D8	151	ASN
3	E8	47	ASN
2	F8	53	ASN
2	F8	151	ASN
2	F8	152	ASN
3	G8	47	ASN
2	H8	21	ASN
2	H8	25	GLN
2	H8	53	ASN
2	H8	151	ASN
2	J8	15	GLN
2	J8	53	ASN
2	J8	151	ASN
3	K8	65	GLN
2	L8	25	GLN
2	L8	53	ASN

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Mol	Chain	Res	Type
2	L8	151	ASN
2	L8	152	ASN
4	N8	45	ASN
4	N8	77	GLN
4	N8	89	ASN
4	N8	91	GLN
4	N8	116	HIS
4	N8	130	ASN
4	N8	141	ASN
4	N8	156	GLN
4	N8	290	GLN
2	O8	25	GLN
2	O8	53	ASN
2	O8	72	ASN
2	O8	151	ASN
2	O8	152	ASN
3	P8	63	GLN
3	P8	65	GLN
2	Q8	15	GLN
2	Q8	53	ASN
2	Q8	140	HIS
2	Q8	151	ASN
2	Q8	152	ASN
3	R8	65	GLN
2	S8	21	ASN
2	S8	25	GLN
2	S8	53	ASN
2	S8	151	ASN
2	U8	25	GLN
2	U8	53	ASN
2	U8	151	ASN
2	U8	152	ASN
3	V8	46	ASN
2	W8	53	ASN
2	W8	151	ASN
2	W8	152	ASN
2	Y8	53	ASN
2	Y8	139	ASN
2	Y8	140	HIS
2	Y8	152	ASN
3	Z8	47	ASN
3	Z8	157	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

288 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	$\#\|Z\|>2$
11	CYC	A6	301	-	42,46,46	3.02	13 (30%)	50,67,67	3.89	23 (46%)
11	CYC	C5	201	-	42,46,46	3.22	13 (30%)	50,67,67	3.52	20 (40%)
11	CYC	E6	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	E2	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.88	23 (46%)
11	CYC	Z6	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	K7	1001	-	42,46,46	3.13	12 (28%)	50,67,67	3.29	25 (50%)
11	CYC	S7	1001	-	42,46,46	3.26	14 (33%)	50,67,67	2.77	21 (42%)
11	CYC	I1	202	-	42,46,46	3.22	13 (30%)	50,67,67	3.53	20 (40%)
11	CYC	K4	201	-	42,46,46	3.21	16 (38%)	50,67,67	3.37	24 (48%)
11	CYC	I5	202	-	42,46,46	3.23	12 (28%)	50,67,67	3.53	20 (40%)
11	CYC	Z5	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.27	26 (52%)
11	CYC	P4	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	J6	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	N5	301	-	42,46,46	3.09	14 (33%)	50,67,67	3.27	26 (52%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
11	CYC	Y7	1001	-	42,46,46	3.14	12 (28%)	50,67,67	3.28	25 (50%)
11	CYC	M2	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.87	23 (46%)
11	CYC	U3	1001	-	42,46,46	3.10	15 (35%)	50,67,67	3.76	22 (44%)
11	CYC	K6	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.87	23 (46%)
11	CYC	n3	1001	-	42,46,46	3.09	14 (33%)	50,67,67	3.76	22 (44%)
11	CYC	A1	301	-	42,46,46	3.08	14 (33%)	50,67,67	3.27	26 (52%)
11	CYC	M1	202	-	42,46,46	3.23	12 (28%)	50,67,67	3.52	20 (40%)
11	CYC	Z2	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.57	25 (50%)
11	CYC	F6	201	-	42,46,46	3.07	13 (30%)	50,67,67	3.57	25 (50%)
11	CYC	G1	201	-	42,46,46	3.07	14 (33%)	50,67,67	3.26	25 (50%)
11	CYC	W2	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	13	904	-	42,46,46	3.09	13 (30%)	50,67,67	3.76	22 (44%)
11	CYC	N8	301	-	42,46,46	3.22	16 (38%)	50,67,67	3.36	25 (50%)
11	CYC	P7	1001	-	42,46,46	3.15	12 (28%)	50,67,67	3.29	25 (50%)
11	CYC	I4	203	-	42,46,46	3.19	14 (33%)	50,67,67	2.95	20 (40%)
11	CYC	T5	201	-	42,46,46	3.23	12 (28%)	50,67,67	3.52	21 (42%)
11	CYC	J3	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.76	22 (44%)
11	CYC	G8	202	-	42,46,46	3.22	17 (40%)	50,67,67	3.36	24 (48%)
11	CYC	I6	202	-	42,46,46	1.12	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	K2	203	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	R1	201	-	42,46,46	3.09	14 (33%)	50,67,67	3.27	26 (52%)
11	CYC	P8	203	-	42,46,46	3.15	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	K2	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.87	23 (46%)
11	CYC	d3	1001	-	42,46,46	3.25	14 (33%)	50,67,67	3.28	20 (40%)
11	CYC	T2	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	V6	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	F8	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.97	2 (4%)
11	CYC	R7	1001	-	42,46,46	3.14	12 (28%)	50,67,67	3.29	25 (50%)
11	CYC	H5	201	-	42,46,46	3.17	13 (30%)	50,67,67	4.44	29 (58%)
11	CYC	R6	201	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	x3	1001	-	42,46,46	3.08	14 (33%)	50,67,67	3.76	22 (44%)
11	CYC	U1	201	-	42,46,46	3.17	13 (30%)	50,67,67	4.45	29 (58%)
11	CYC	q3	1001	-	42,46,46	3.24	14 (33%)	50,67,67	3.27	19 (38%)
11	CYC	N2	302	-	42,46,46	3.01	13 (30%)	50,67,67	3.87	23 (46%)
11	CYC	I8	202	-	42,46,46	1.11	1 (2%)	50,67,67	0.96	2 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
11	CYC	V8	202	-	42,46,46	1.10	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	M6	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.94	2 (4%)
11	CYC	R1	202	-	42,46,46	3.22	13 (30%)	50,67,67	3.52	21 (42%)
11	CYC	e3	1001	-	42,46,46	3.08	14 (33%)	50,67,67	3.76	22 (44%)
11	CYC	C1	201	-	42,46,46	3.22	13 (30%)	50,67,67	3.51	20 (40%)
11	CYC	E4	201	-	42,46,46	3.21	16 (38%)	50,67,67	3.37	25 (50%)
11	CYC	A8	301	-	42,46,46	3.23	16 (38%)	50,67,67	3.36	26 (52%)
11	CYC	P8	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	D5	201	-	42,46,46	3.21	13 (30%)	50,67,67	3.50	20 (40%)
11	CYC	G4	201	-	42,46,46	3.16	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	K1	202	-	42,46,46	3.22	13 (30%)	50,67,67	3.52	20 (40%)
11	CYC	X6	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.88	23 (46%)
11	CYC	E6	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.88	23 (46%)
11	CYC	C2	202	-	42,46,46	1.11	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	L4	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.94	2 (4%)
11	CYC	I2	203	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	Q6	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.56	25 (50%)
11	CYC	M2	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.94	2 (4%)
11	CYC	V8	201	-	42,46,46	3.22	17 (40%)	50,67,67	3.37	24 (48%)
11	CYC	N4	301	-	42,46,46	3.22	17 (40%)	50,67,67	3.36	24 (48%)
11	CYC	V4	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	I7	1001	-	42,46,46	3.14	12 (28%)	50,67,67	3.29	25 (50%)
11	CYC	X1	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.27	25 (50%)
11	CYC	K5	201	-	42,46,46	3.07	14 (33%)	50,67,67	3.27	25 (50%)
11	CYC	C5	202	-	42,46,46	3.17	14 (33%)	50,67,67	4.45	29 (58%)
11	CYC	H6	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	P6	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.88	23 (46%)
11	CYC	T1	201	-	42,46,46	3.23	12 (28%)	50,67,67	3.52	20 (40%)
11	CYC	P3	1001	-	42,46,46	3.25	14 (33%)	50,67,67	3.26	19 (38%)
11	CYC	m3	201	-	42,46,46	3.17	14 (33%)	50,67,67	3.30	21 (42%)
11	CYC	B1	201	-	42,46,46	3.17	13 (30%)	50,67,67	4.45	29 (58%)
11	CYC	13	902	-	42,46,46	3.10	14 (33%)	50,67,67	3.77	22 (44%)
11	CYC	Q3	1001	9	42,46,46	3.19	15 (35%)	50,67,67	2.99	17 (34%)
11	CYC	a7	1001	-	42,46,46	3.14	12 (28%)	50,67,67	3.29	25 (50%)
11	CYC	r3	1001	-	42,46,46	3.10	15 (35%)	50,67,67	3.76	22 (44%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
11	CYC	03	902	-	42,46,46	3.09	15 (35%)	50,67,67	3.76	22 (44%)
11	CYC	j3	1001	-	42,46,46	3.09	15 (35%)	50,67,67	3.76	22 (44%)
11	CYC	u3	1001	-	42,46,46	3.24	13 (30%)	50,67,67	3.27	19 (38%)
11	CYC	K2	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	B2	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	I4	202	-	42,46,46	1.11	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	Z5	202	-	42,46,46	3.23	12 (28%)	50,67,67	3.52	21 (42%)
11	CYC	A5	301	-	42,46,46	3.08	14 (33%)	50,67,67	3.27	25 (50%)
11	CYC	E2	203	-	42,46,46	3.06	13 (30%)	50,67,67	3.57	25 (50%)
11	CYC	H3	1001	-	42,46,46	3.09	14 (33%)	50,67,67	3.77	22 (44%)
11	CYC	X8	201	-	42,46,46	3.22	17 (40%)	50,67,67	3.36	24 (48%)
11	CYC	G6	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	P2	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	R5	202	-	42,46,46	3.23	13 (30%)	50,67,67	3.53	21 (42%)
11	CYC	k3	1001	-	42,46,46	3.25	14 (33%)	50,67,67	3.27	20 (40%)
11	CYC	l3	1001	-	42,46,46	3.09	14 (33%)	50,67,67	3.76	22 (44%)
11	CYC	Y8	201	-	42,46,46	3.16	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	i3	1001	-	42,46,46	3.24	14 (33%)	50,67,67	3.26	20 (40%)
11	CYC	G4	202	-	42,46,46	3.22	17 (40%)	50,67,67	3.36	24 (48%)
11	CYC	V5	201	-	42,46,46	3.08	15 (35%)	50,67,67	3.27	26 (52%)
11	CYC	E8	203	-	42,46,46	3.16	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	Q1	201	-	42,46,46	3.17	13 (30%)	50,67,67	4.45	29 (58%)
11	CYC	T4	201	-	42,46,46	3.23	16 (38%)	50,67,67	3.37	26 (52%)
11	CYC	O4	201	-	42,46,46	3.16	14 (33%)	50,67,67	2.93	20 (40%)
11	CYC	X4	202	-	42,46,46	1.04	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	Z7	1001	-	42,46,46	3.26	15 (35%)	50,67,67	2.77	22 (44%)
11	CYC	O1	201	-	42,46,46	3.17	13 (30%)	50,67,67	4.45	29 (58%)
11	CYC	E7	1001	-	42,46,46	3.26	15 (35%)	50,67,67	2.78	21 (42%)
11	CYC	L7	1001	-	42,46,46	3.27	15 (35%)	50,67,67	2.78	22 (44%)
11	CYC	K8	201	-	42,46,46	3.22	17 (40%)	50,67,67	3.36	24 (48%)
11	CYC	X8	202	-	42,46,46	1.05	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	C6	203	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	X2	203	-	42,46,46	3.05	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	M7	1001	-	42,46,46	3.15	12 (28%)	50,67,67	3.29	25 (50%)
11	CYC	g3	1001	9	42,46,46	3.17	14 (33%)	50,67,67	2.99	17 (34%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
11	CYC	w3	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.27	20 (40%)
11	CYC	T2	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	t3	1001	-	42,46,46	3.08	14 (33%)	50,67,67	3.76	22 (44%)
11	CYC	P4	201	-	42,46,46	3.22	16 (38%)	50,67,67	3.36	26 (52%)
11	CYC	B7	1001	-	42,46,46	3.14	12 (28%)	50,67,67	3.28	25 (50%)
11	CYC	J1	201	-	42,46,46	3.16	13 (30%)	50,67,67	4.44	29 (58%)
11	CYC	L8	201	-	42,46,46	3.17	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	C4	201	-	42,46,46	1.12	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	R6	202	-	42,46,46	3.05	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	W3	1001	-	42,46,46	3.09	14 (33%)	50,67,67	3.75	22 (44%)
11	CYC	T4	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	P2	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.88	23 (46%)
11	CYC	P4	203	-	42,46,46	3.15	14 (33%)	50,67,67	2.92	20 (40%)
11	CYC	Y6	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	K8	202	-	42,46,46	1.05	1 (2%)	50,67,67	0.97	2 (4%)
11	CYC	A2	301	-	42,46,46	3.02	13 (30%)	50,67,67	3.88	23 (46%)
11	CYC	z3	1001	-	42,46,46	3.08	14 (33%)	50,67,67	3.75	22 (44%)
11	CYC	V3	201	-	42,46,46	3.18	15 (35%)	50,67,67	3.30	21 (42%)
11	CYC	K6	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	A7	1001	-	42,46,46	3.25	15 (35%)	50,67,67	2.77	21 (42%)
11	CYC	A5	302	-	42,46,46	3.10	14 (33%)	50,67,67	3.27	26 (52%)
11	CYC	B6	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	I6	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.89	23 (46%)
11	CYC	D2	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.57	25 (50%)
11	CYC	C7	1001	-	42,46,46	3.25	15 (35%)	50,67,67	2.78	21 (42%)
11	CYC	G1	202	-	42,46,46	3.23	13 (30%)	50,67,67	3.52	20 (40%)
11	CYC	L4	201	-	42,46,46	3.17	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	V6	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.87	23 (46%)
11	CYC	U5	202	-	42,46,46	3.22	12 (28%)	50,67,67	3.53	20 (40%)
11	CYC	T7	1001	-	42,46,46	3.14	12 (28%)	50,67,67	3.28	25 (50%)
11	CYC	M3	201	-	42,46,46	3.09	14 (33%)	50,67,67	3.76	22 (44%)
11	CYC	G5	202	-	42,46,46	3.22	13 (30%)	50,67,67	3.52	20 (40%)
11	CYC	R3	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.27	19 (38%)
11	CYC	o3	1001	7	42,46,46	3.24	15 (35%)	50,67,67	3.27	20 (40%)
11	CYC	L5	201	-	42,46,46	3.18	13 (30%)	50,67,67	4.44	29 (58%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
11	CYC	N1	301	-	42,46,46	3.09	15 (35%)	50,67,67	3.27	26 (52%)
11	CYC	S2	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	13	901	-	42,46,46	3.20	13 (30%)	50,67,67	3.14	19 (38%)
11	CYC	y3	1001	-	42,46,46	3.24	14 (33%)	50,67,67	3.27	20 (40%)
11	CYC	R8	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	J5	201	-	42,46,46	3.15	13 (30%)	50,67,67	4.44	29 (58%)
11	CYC	Z1	202	-	42,46,46	3.23	12 (28%)	50,67,67	3.52	21 (42%)
11	CYC	V1	201	-	42,46,46	3.08	15 (35%)	50,67,67	3.27	26 (52%)
11	CYC	I3	1001	-	42,46,46	3.24	14 (33%)	50,67,67	3.27	20 (40%)
11	CYC	R4	201	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	P6	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	Q7	1001	-	42,46,46	3.27	16 (38%)	50,67,67	2.77	21 (42%)
11	CYC	S3	1001	-	42,46,46	3.09	14 (33%)	50,67,67	3.76	22 (44%)
11	CYC	I4	201	-	42,46,46	3.22	17 (40%)	50,67,67	3.36	23 (46%)
11	CYC	S4	201	-	42,46,46	3.15	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	I8	203	-	42,46,46	3.17	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	F1	201	-	42,46,46	3.16	13 (30%)	50,67,67	4.45	29 (58%)
11	CYC	U6	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.57	25 (50%)
11	CYC	M8	202	-	42,46,46	3.23	16 (38%)	50,67,67	3.36	25 (50%)
11	CYC	M6	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.87	23 (46%)
11	CYC	P1	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.27	26 (52%)
11	CYC	N6	301	-	42,46,46	3.01	13 (30%)	50,67,67	3.87	23 (46%)
11	CYC	P8	201	-	42,46,46	3.23	16 (38%)	50,67,67	3.36	25 (50%)
11	CYC	N2	301	-	42,46,46	3.00	13 (30%)	50,67,67	3.87	23 (46%)
11	CYC	C6	202	-	42,46,46	1.12	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	T8	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	s3	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.27	19 (38%)
11	CYC	K1	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.27	26 (52%)
11	CYC	V2	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.87	23 (46%)
11	CYC	Z2	203	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	Z3	1001	-	42,46,46	3.25	14 (33%)	50,67,67	3.28	20 (40%)
11	CYC	H1	201	-	42,46,46	3.17	13 (30%)	50,67,67	4.45	29 (58%)
11	CYC	T8	201	-	42,46,46	3.22	16 (38%)	50,67,67	3.37	26 (52%)
11	CYC	v3	1001	-	42,46,46	3.09	14 (33%)	50,67,67	3.76	22 (44%)
11	CYC	S8	201	-	42,46,46	3.16	14 (33%)	50,67,67	2.94	20 (40%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
11	CYC	O5	201	-	42,46,46	3.18	13 (30%)	50,67,67	4.45	29 (58%)
11	CYC	M4	202	-	42,46,46	3.24	16 (38%)	50,67,67	3.36	25 (50%)
11	CYC	P5	201	-	42,46,46	3.09	14 (33%)	50,67,67	3.26	25 (50%)
11	CYC	X2	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	Z6	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.88	23 (46%)
11	CYC	b3	1001	-	42,46,46	3.24	14 (33%)	50,67,67	3.27	20 (40%)
11	CYC	Z8	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	B5	201	-	42,46,46	3.16	14 (33%)	50,67,67	4.45	29 (58%)
11	CYC	P1	202	-	42,46,46	3.24	13 (30%)	50,67,67	3.52	20 (40%)
11	CYC	O7	1001	-	42,46,46	3.25	15 (35%)	50,67,67	2.78	21 (42%)
11	CYC	E2	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	I8	201	-	42,46,46	3.22	15 (35%)	50,67,67	3.36	24 (48%)
11	CYC	I5	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.26	26 (52%)
11	CYC	U8	201	-	42,46,46	3.17	14 (33%)	50,67,67	2.95	20 (40%)
11	CYC	X1	202	-	42,46,46	3.23	12 (28%)	50,67,67	3.52	20 (40%)
11	CYC	N3	1001	-	42,46,46	3.24	14 (33%)	50,67,67	3.26	19 (38%)
11	CYC	T6	201	-	42,46,46	1.09	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	D1	201	-	42,46,46	3.21	13 (30%)	50,67,67	3.51	20 (40%)
11	CYC	M8	201	-	42,46,46	3.16	15 (35%)	50,67,67	2.94	20 (40%)
11	CYC	N6	302	-	42,46,46	3.00	13 (30%)	50,67,67	3.88	23 (46%)
11	CYC	F7	1001	-	42,46,46	3.14	12 (28%)	50,67,67	3.28	25 (50%)
11	CYC	13	903	-	42,46,46	3.09	14 (33%)	50,67,67	3.76	22 (44%)
11	CYC	U5	201	-	42,46,46	3.16	13 (30%)	50,67,67	4.44	29 (58%)
11	CYC	C1	202	-	42,46,46	3.17	14 (33%)	50,67,67	4.45	29 (58%)
11	CYC	I2	201	-	42,46,46	3.03	13 (30%)	50,67,67	3.88	23 (46%)
11	CYC	M4	201	-	42,46,46	3.17	15 (35%)	50,67,67	2.94	20 (40%)
11	CYC	X3	1001	-	42,46,46	3.26	14 (33%)	50,67,67	3.27	20 (40%)
11	CYC	X2	201	-	42,46,46	3.00	13 (30%)	50,67,67	3.87	23 (46%)
11	CYC	Z1	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.27	26 (52%)
11	CYC	M5	202	-	42,46,46	3.22	12 (28%)	50,67,67	3.53	20 (40%)
11	CYC	X7	1001	-	42,46,46	3.25	15 (35%)	50,67,67	2.77	22 (44%)
11	CYC	S1	201	-	42,46,46	3.17	13 (30%)	50,67,67	4.45	29 (58%)
11	CYC	U1	202	-	42,46,46	3.22	12 (28%)	50,67,67	3.52	21 (42%)
11	CYC	M1	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.27	26 (52%)
11	CYC	F4	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.97	2 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
11	CYC	L1	201	-	42,46,46	3.18	13 (30%)	50,67,67	4.45	29 (58%)
11	CYC	X1	203	-	42,46,46	3.17	14 (33%)	50,67,67	4.45	29 (58%)
11	CYC	E8	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.94	2 (4%)
11	CYC	f3	1001	-	42,46,46	3.25	14 (33%)	50,67,67	3.27	19 (38%)
11	CYC	Y4	201	-	42,46,46	3.15	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	V4	201	-	42,46,46	3.22	17 (40%)	50,67,67	3.36	24 (48%)
11	CYC	A1	302	-	42,46,46	3.09	14 (33%)	50,67,67	3.28	26 (52%)
11	CYC	G5	201	-	42,46,46	3.07	14 (33%)	50,67,67	3.27	25 (50%)
11	CYC	Z4	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	D7	1001	-	42,46,46	3.15	12 (28%)	50,67,67	3.28	25 (50%)
11	CYC	V1	202	-	42,46,46	3.17	13 (30%)	50,67,67	4.44	29 (58%)
11	CYC	P5	202	-	42,46,46	3.24	13 (30%)	50,67,67	3.51	20 (40%)
11	CYC	c3	1001	-	42,46,46	3.08	14 (33%)	50,67,67	3.75	22 (44%)
11	CYC	Q2	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.57	25 (50%)
11	CYC	W6	201	-	42,46,46	3.07	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	E4	203	-	42,46,46	3.16	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	R5	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.27	26 (52%)
11	CYC	K4	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
11	CYC	H7	1001	-	42,46,46	3.26	15 (35%)	50,67,67	2.77	21 (42%)
11	CYC	p3	1001	-	42,46,46	3.09	15 (35%)	50,67,67	3.76	22 (44%)
11	CYC	X5	202	-	42,46,46	3.22	12 (28%)	50,67,67	3.52	20 (40%)
11	CYC	W4	201	-	42,46,46	3.16	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	K3	1001	-	42,46,46	3.25	15 (35%)	50,67,67	3.26	20 (40%)
11	CYC	V7	1001	-	42,46,46	3.25	15 (35%)	50,67,67	2.78	21 (42%)
11	CYC	W7	1001	-	42,46,46	3.14	12 (28%)	50,67,67	3.28	25 (50%)
11	CYC	I1	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.26	26 (52%)
11	CYC	C8	201	-	42,46,46	1.13	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	Q5	201	-	42,46,46	3.18	13 (30%)	50,67,67	4.46	29 (58%)
11	CYC	X5	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.26	26 (52%)
11	CYC	C2	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.88	23 (46%)
11	CYC	V5	202	-	42,46,46	3.18	13 (30%)	50,67,67	4.44	29 (58%)
11	CYC	O6	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)
11	CYC	D8	201	-	42,46,46	3.16	14 (33%)	50,67,67	2.95	20 (40%)
11	CYC	Z8	201	-	42,46,46	3.23	16 (38%)	50,67,67	3.36	25 (50%)
11	CYC	O8	201	-	42,46,46	3.16	14 (33%)	50,67,67	2.94	20 (40%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
11	CYC	W8	201	-	42,46,46	3.16	14 (33%)	50,67,67	2.94	20 (40%)
11	CYC	M5	201	-	42,46,46	3.08	14 (33%)	50,67,67	3.27	26 (52%)
11	CYC	Z2	202	-	42,46,46	3.02	13 (30%)	50,67,67	3.88	23 (46%)
11	CYC	X5	203	-	42,46,46	3.17	13 (30%)	50,67,67	4.45	29 (58%)
11	CYC	T3	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.27	20 (40%)
11	CYC	E4	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	X6	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	F5	201	-	42,46,46	3.16	14 (33%)	50,67,67	4.45	29 (58%)
11	CYC	A4	301	-	42,46,46	3.23	16 (38%)	50,67,67	3.36	25 (50%)
11	CYC	G8	201	-	42,46,46	3.16	14 (33%)	50,67,67	2.95	20 (40%)
11	CYC	J7	1001	-	42,46,46	3.26	15 (35%)	50,67,67	2.77	21 (42%)
11	CYC	O3	1001	-	42,46,46	3.09	14 (33%)	50,67,67	3.76	22 (44%)
11	CYC	G3	1001	-	42,46,46	3.25	13 (30%)	50,67,67	3.27	20 (40%)
11	CYC	D4	201	-	42,46,46	3.18	14 (33%)	50,67,67	2.95	20 (40%)
11	CYC	X4	201	-	42,46,46	3.23	16 (38%)	50,67,67	3.36	24 (48%)
11	CYC	C6	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.87	23 (46%)
11	CYC	G2	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.97	2 (4%)
11	CYC	S5	201	-	42,46,46	3.17	13 (30%)	50,67,67	4.45	29 (58%)
11	CYC	03	901	-	42,46,46	3.20	13 (30%)	50,67,67	3.15	19 (38%)
11	CYC	U4	201	-	42,46,46	3.18	14 (33%)	50,67,67	2.95	20 (40%)
11	CYC	K5	202	-	42,46,46	3.21	13 (30%)	50,67,67	3.52	20 (40%)
11	CYC	E8	201	-	42,46,46	3.22	16 (38%)	50,67,67	3.36	25 (50%)
11	CYC	Z4	201	-	42,46,46	3.24	16 (38%)	50,67,67	3.36	24 (48%)
11	CYC	L8	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.94	2 (4%)
11	CYC	V2	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	I2	202	-	42,46,46	1.12	1 (2%)	50,67,67	0.96	2 (4%)
11	CYC	R2	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
11	CYC	H2	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.58	25 (50%)
11	CYC	L6	201	-	42,46,46	3.07	13 (30%)	50,67,67	3.58	25 (50%)

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
11	CYC	A6	301	-	-	6/25/74/74	0/4/4/4
11	CYC	C5	201	-	-	11/25/74/74	0/4/4/4
11	CYC	E6	202	-	-	12/25/74/74	0/4/4/4
11	CYC	E2	201	-	-	6/25/74/74	0/4/4/4
11	CYC	Z6	202	-	-	12/25/74/74	0/4/4/4
11	CYC	K7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	S7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	I1	202	-	-	11/25/74/74	0/4/4/4
11	CYC	K4	201	-	-	10/25/74/74	0/4/4/4
11	CYC	I5	202	-	-	11/25/74/74	0/4/4/4
11	CYC	Z5	201	-	-	10/25/74/74	0/4/4/4
11	CYC	P4	202	-	-	12/25/74/74	0/4/4/4
11	CYC	J6	201	-	-	12/25/74/74	0/4/4/4
11	CYC	N5	301	-	-	10/25/74/74	0/4/4/4
11	CYC	Y7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	M2	201	-	-	6/25/74/74	0/4/4/4
11	CYC	U3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	K6	201	-	-	6/25/74/74	0/4/4/4
11	CYC	n3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	A1	301	-	-	10/25/74/74	0/4/4/4
11	CYC	M1	202	-	-	11/25/74/74	0/4/4/4
11	CYC	Z2	201	-	-	12/25/74/74	0/4/4/4
11	CYC	F6	201	-	-	12/25/74/74	0/4/4/4
11	CYC	G1	201	-	-	10/25/74/74	0/4/4/4
11	CYC	W2	201	-	-	12/25/74/74	0/4/4/4
11	CYC	13	904	-	-	4/25/74/74	0/4/4/4
11	CYC	N8	301	-	-	10/25/74/74	0/4/4/4
11	CYC	P7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	I4	203	-	-	11/25/74/74	0/4/4/4
11	CYC	T5	201	-	-	11/25/74/74	0/4/4/4
11	CYC	J3	201	-	-	4/25/74/74	0/4/4/4
11	CYC	G8	202	-	-	10/25/74/74	0/4/4/4
11	CYC	I6	202	-	-	12/25/74/74	0/4/4/4
11	CYC	K2	203	-	-	12/25/74/74	0/4/4/4
11	CYC	R1	201	-	-	10/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	CYC	P8	203	-	-	11/25/74/74	0/4/4/4
11	CYC	K2	201	-	-	6/25/74/74	0/4/4/4
11	CYC	d3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	T2	201	-	-	12/25/74/74	0/4/4/4
11	CYC	V6	202	-	-	12/25/74/74	0/4/4/4
11	CYC	F8	201	-	-	12/25/74/74	0/4/4/4
11	CYC	R7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	H5	201	-	-	12/25/74/74	0/4/4/4
11	CYC	R6	201	-	-	12/25/74/74	0/4/4/4
11	CYC	x3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	U1	201	-	-	12/25/74/74	0/4/4/4
11	CYC	q3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	N2	302	-	-	6/25/74/74	0/4/4/4
11	CYC	I8	202	-	-	12/25/74/74	0/4/4/4
11	CYC	V8	202	-	-	12/25/74/74	0/4/4/4
11	CYC	M6	202	-	-	12/25/74/74	0/4/4/4
11	CYC	R1	202	-	-	11/25/74/74	0/4/4/4
11	CYC	e3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	C1	201	-	-	11/25/74/74	0/4/4/4
11	CYC	E4	201	-	-	10/25/74/74	0/4/4/4
11	CYC	A8	301	-	-	10/25/74/74	0/4/4/4
11	CYC	P8	202	-	-	12/25/74/74	0/4/4/4
11	CYC	D5	201	-	-	11/25/74/74	0/4/4/4
11	CYC	G4	201	-	-	11/25/74/74	0/4/4/4
11	CYC	K1	202	-	-	11/25/74/74	0/4/4/4
11	CYC	X6	201	-	-	6/25/74/74	0/4/4/4
11	CYC	E6	201	-	-	6/25/74/74	0/4/4/4
11	CYC	C2	202	-	-	12/25/74/74	0/4/4/4
11	CYC	L4	202	-	-	12/25/74/74	0/4/4/4
11	CYC	I2	203	-	-	12/25/74/74	0/4/4/4
11	CYC	Q6	201	-	-	12/25/74/74	0/4/4/4
11	CYC	M2	202	-	-	12/25/74/74	0/4/4/4
11	CYC	V8	201	-	-	10/25/74/74	0/4/4/4
11	CYC	N4	301	-	-	10/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	CYC	V4	202	-	-	12/25/74/74	0/4/4/4
11	CYC	I7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	X1	201	-	-	10/25/74/74	0/4/4/4
11	CYC	K5	201	-	-	10/25/74/74	0/4/4/4
11	CYC	C5	202	-	-	12/25/74/74	0/4/4/4
11	CYC	H6	201	-	-	12/25/74/74	0/4/4/4
11	CYC	P6	201	-	-	6/25/74/74	0/4/4/4
11	CYC	T1	201	-	-	11/25/74/74	0/4/4/4
11	CYC	P3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	m3	201	-	-	11/25/74/74	0/4/4/4
11	CYC	B1	201	-	-	12/25/74/74	0/4/4/4
11	CYC	13	902	-	-	4/25/74/74	0/4/4/4
11	CYC	Q3	1001	9	-	7/25/74/74	0/4/4/4
11	CYC	a7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	r3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	03	902	-	-	4/25/74/74	0/4/4/4
11	CYC	j3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	u3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	K2	202	-	-	12/25/74/74	0/4/4/4
11	CYC	B2	201	-	-	12/25/74/74	0/4/4/4
11	CYC	I4	202	-	-	12/25/74/74	0/4/4/4
11	CYC	Z5	202	-	-	11/25/74/74	0/4/4/4
11	CYC	A5	301	-	-	10/25/74/74	0/4/4/4
11	CYC	E2	203	-	-	12/25/74/74	0/4/4/4
11	CYC	H3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	X8	201	-	-	10/25/74/74	0/4/4/4
11	CYC	G6	201	-	-	12/25/74/74	0/4/4/4
11	CYC	P2	202	-	-	12/25/74/74	0/4/4/4
11	CYC	R5	202	-	-	11/25/74/74	0/4/4/4
11	CYC	k3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	l3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	Y8	201	-	-	11/25/74/74	0/4/4/4
11	CYC	i3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	G4	202	-	-	10/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	CYC	V5	201	-	-	10/25/74/74	0/4/4/4
11	CYC	E8	203	-	-	11/25/74/74	0/4/4/4
11	CYC	Q1	201	-	-	12/25/74/74	0/4/4/4
11	CYC	T4	201	-	-	10/25/74/74	0/4/4/4
11	CYC	O4	201	-	-	11/25/74/74	0/4/4/4
11	CYC	X4	202	-	-	12/25/74/74	0/4/4/4
11	CYC	Z7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	O1	201	-	-	12/25/74/74	0/4/4/4
11	CYC	E7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	L7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	K8	201	-	-	10/25/74/74	0/4/4/4
11	CYC	X8	202	-	-	12/25/74/74	0/4/4/4
11	CYC	C6	203	-	-	12/25/74/74	0/4/4/4
11	CYC	X2	203	-	-	12/25/74/74	0/4/4/4
11	CYC	M7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	g3	1001	9	-	7/25/74/74	0/4/4/4
11	CYC	w3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	T2	202	-	-	12/25/74/74	0/4/4/4
11	CYC	t3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	P4	201	-	-	10/25/74/74	0/4/4/4
11	CYC	B7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	J1	201	-	-	12/25/74/74	0/4/4/4
11	CYC	L8	201	-	-	11/25/74/74	0/4/4/4
11	CYC	C4	201	-	-	12/25/74/74	0/4/4/4
11	CYC	R6	202	-	-	12/25/74/74	0/4/4/4
11	CYC	W3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	T4	202	-	-	12/25/74/74	0/4/4/4
11	CYC	P2	201	-	-	6/25/74/74	0/4/4/4
11	CYC	P4	203	-	-	11/25/74/74	0/4/4/4
11	CYC	Y6	201	-	-	12/25/74/74	0/4/4/4
11	CYC	K8	202	-	-	12/25/74/74	0/4/4/4
11	CYC	A2	301	-	-	6/25/74/74	0/4/4/4
11	CYC	z3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	V3	201	-	-	11/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	CYC	K6	202	-	-	12/25/74/74	0/4/4/4
11	CYC	A7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	A5	302	-	-	10/25/74/74	0/4/4/4
11	CYC	B6	201	-	-	12/25/74/74	0/4/4/4
11	CYC	I6	201	-	-	6/25/74/74	0/4/4/4
11	CYC	D2	201	-	-	12/25/74/74	0/4/4/4
11	CYC	C7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	G1	202	-	-	11/25/74/74	0/4/4/4
11	CYC	L4	201	-	-	11/25/74/74	0/4/4/4
11	CYC	V6	201	-	-	6/25/74/74	0/4/4/4
11	CYC	U5	202	-	-	11/25/74/74	0/4/4/4
11	CYC	T7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	M3	201	-	-	4/25/74/74	0/4/4/4
11	CYC	G5	202	-	-	11/25/74/74	0/4/4/4
11	CYC	R3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	o3	1001	7	-	7/25/74/74	0/4/4/4
11	CYC	L5	201	-	-	12/25/74/74	0/4/4/4
11	CYC	N1	301	-	-	10/25/74/74	0/4/4/4
11	CYC	S2	201	-	-	12/25/74/74	0/4/4/4
11	CYC	13	901	-	-	9/25/74/74	0/4/4/4
11	CYC	y3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	R8	201	-	-	12/25/74/74	0/4/4/4
11	CYC	J5	201	-	-	12/25/74/74	0/4/4/4
11	CYC	Z1	202	-	-	11/25/74/74	0/4/4/4
11	CYC	V1	201	-	-	10/25/74/74	0/4/4/4
11	CYC	I3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	R4	201	-	-	12/25/74/74	0/4/4/4
11	CYC	P6	202	-	-	12/25/74/74	0/4/4/4
11	CYC	Q7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	S3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	I4	201	-	-	10/25/74/74	0/4/4/4
11	CYC	S4	201	-	-	11/25/74/74	0/4/4/4
11	CYC	I8	203	-	-	11/25/74/74	0/4/4/4
11	CYC	F1	201	-	-	12/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	CYC	U6	201	-	-	12/25/74/74	0/4/4/4
11	CYC	M8	202	-	-	10/25/74/74	0/4/4/4
11	CYC	M6	201	-	-	6/25/74/74	0/4/4/4
11	CYC	P1	201	-	-	10/25/74/74	0/4/4/4
11	CYC	N6	301	-	-	6/25/74/74	0/4/4/4
11	CYC	P8	201	-	-	10/25/74/74	0/4/4/4
11	CYC	N2	301	-	-	6/25/74/74	0/4/4/4
11	CYC	C6	202	-	-	12/25/74/74	0/4/4/4
11	CYC	T8	202	-	-	12/25/74/74	0/4/4/4
11	CYC	s3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	K1	201	-	-	10/25/74/74	0/4/4/4
11	CYC	V2	201	-	-	6/25/74/74	0/4/4/4
11	CYC	Z2	203	-	-	12/25/74/74	0/4/4/4
11	CYC	Z3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	H1	201	-	-	12/25/74/74	0/4/4/4
11	CYC	T8	201	-	-	10/25/74/74	0/4/4/4
11	CYC	v3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	S8	201	-	-	11/25/74/74	0/4/4/4
11	CYC	O5	201	-	-	12/25/74/74	0/4/4/4
11	CYC	M4	202	-	-	10/25/74/74	0/4/4/4
11	CYC	P5	201	-	-	10/25/74/74	0/4/4/4
11	CYC	X2	202	-	-	12/25/74/74	0/4/4/4
11	CYC	Z6	201	-	-	6/25/74/74	0/4/4/4
11	CYC	b3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	Z8	202	-	-	12/25/74/74	0/4/4/4
11	CYC	B5	201	-	-	12/25/74/74	0/4/4/4
11	CYC	P1	202	-	-	11/25/74/74	0/4/4/4
11	CYC	O7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	E2	202	-	-	12/25/74/74	0/4/4/4
11	CYC	I8	201	-	-	10/25/74/74	0/4/4/4
11	CYC	I5	201	-	-	10/25/74/74	0/4/4/4
11	CYC	U8	201	-	-	11/25/74/74	0/4/4/4
11	CYC	X1	202	-	-	11/25/74/74	0/4/4/4
11	CYC	N3	1001	-	-	7/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	CYC	T6	201	-	-	12/25/74/74	0/4/4/4
11	CYC	D1	201	-	-	11/25/74/74	0/4/4/4
11	CYC	M8	201	-	-	11/25/74/74	0/4/4/4
11	CYC	N6	302	-	-	6/25/74/74	0/4/4/4
11	CYC	F7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	13	903	-	-	4/25/74/74	0/4/4/4
11	CYC	U5	201	-	-	12/25/74/74	0/4/4/4
11	CYC	C1	202	-	-	12/25/74/74	0/4/4/4
11	CYC	I2	201	-	-	6/25/74/74	0/4/4/4
11	CYC	M4	201	-	-	11/25/74/74	0/4/4/4
11	CYC	X3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	X2	201	-	-	6/25/74/74	0/4/4/4
11	CYC	Z1	201	-	-	10/25/74/74	0/4/4/4
11	CYC	M5	202	-	-	11/25/74/74	0/4/4/4
11	CYC	X7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	S1	201	-	-	12/25/74/74	0/4/4/4
11	CYC	U1	202	-	-	11/25/74/74	0/4/4/4
11	CYC	M1	201	-	-	10/25/74/74	0/4/4/4
11	CYC	F4	201	-	-	12/25/74/74	0/4/4/4
11	CYC	L1	201	-	-	12/25/74/74	0/4/4/4
11	CYC	X1	203	-	-	12/25/74/74	0/4/4/4
11	CYC	E8	202	-	-	12/25/74/74	0/4/4/4
11	CYC	f3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	Y4	201	-	-	11/25/74/74	0/4/4/4
11	CYC	V4	201	-	-	10/25/74/74	0/4/4/4
11	CYC	A1	302	-	-	10/25/74/74	0/4/4/4
11	CYC	G5	201	-	-	10/25/74/74	0/4/4/4
11	CYC	Z4	202	-	-	12/25/74/74	0/4/4/4
11	CYC	D7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	V1	202	-	-	12/25/74/74	0/4/4/4
11	CYC	P5	202	-	-	11/25/74/74	0/4/4/4
11	CYC	c3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	Q2	201	-	-	12/25/74/74	0/4/4/4
11	CYC	W6	201	-	-	12/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	CYC	E4	203	-	-	11/25/74/74	0/4/4/4
11	CYC	R5	201	-	-	10/25/74/74	0/4/4/4
11	CYC	K4	202	-	-	12/25/74/74	0/4/4/4
11	CYC	H7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	p3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	X5	202	-	-	11/25/74/74	0/4/4/4
11	CYC	W4	201	-	-	11/25/74/74	0/4/4/4
11	CYC	K3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	V7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	W7	1001	-	-	11/25/74/74	0/4/4/4
11	CYC	I1	201	-	-	10/25/74/74	0/4/4/4
11	CYC	C8	201	-	-	12/25/74/74	0/4/4/4
11	CYC	Q5	201	-	-	12/25/74/74	0/4/4/4
11	CYC	X5	201	-	-	10/25/74/74	0/4/4/4
11	CYC	C2	201	-	-	6/25/74/74	0/4/4/4
11	CYC	V5	202	-	-	12/25/74/74	0/4/4/4
11	CYC	O6	201	-	-	12/25/74/74	0/4/4/4
11	CYC	D8	201	-	-	11/25/74/74	0/4/4/4
11	CYC	Z8	201	-	-	10/25/74/74	0/4/4/4
11	CYC	O8	201	-	-	11/25/74/74	0/4/4/4
11	CYC	W8	201	-	-	11/25/74/74	0/4/4/4
11	CYC	M5	201	-	-	10/25/74/74	0/4/4/4
11	CYC	Z2	202	-	-	6/25/74/74	0/4/4/4
11	CYC	X5	203	-	-	12/25/74/74	0/4/4/4
11	CYC	T3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	E4	202	-	-	12/25/74/74	0/4/4/4
11	CYC	X6	202	-	-	12/25/74/74	0/4/4/4
11	CYC	F5	201	-	-	12/25/74/74	0/4/4/4
11	CYC	A4	301	-	-	10/25/74/74	0/4/4/4
11	CYC	G8	201	-	-	11/25/74/74	0/4/4/4
11	CYC	J7	1001	-	-	8/25/74/74	0/4/4/4
11	CYC	O3	1001	-	-	4/25/74/74	0/4/4/4
11	CYC	G3	1001	-	-	7/25/74/74	0/4/4/4
11	CYC	D4	201	-	-	11/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	CYC	X4	201	-	-	10/25/74/74	0/4/4/4
11	CYC	C6	201	-	-	6/25/74/74	0/4/4/4
11	CYC	G2	201	-	-	12/25/74/74	0/4/4/4
11	CYC	S5	201	-	-	12/25/74/74	0/4/4/4
11	CYC	03	901	-	-	9/25/74/74	0/4/4/4
11	CYC	U4	201	-	-	11/25/74/74	0/4/4/4
11	CYC	K5	202	-	-	11/25/74/74	0/4/4/4
11	CYC	E8	201	-	-	10/25/74/74	0/4/4/4
11	CYC	Z4	201	-	-	10/25/74/74	0/4/4/4
11	CYC	L8	202	-	-	12/25/74/74	0/4/4/4
11	CYC	V2	202	-	-	12/25/74/74	0/4/4/4
11	CYC	I2	202	-	-	12/25/74/74	0/4/4/4
11	CYC	R2	201	-	-	12/25/74/74	0/4/4/4
11	CYC	H2	201	-	-	12/25/74/74	0/4/4/4
11	CYC	L6	201	-	-	12/25/74/74	0/4/4/4

All (3360) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	P5	202	CYC	CHA-C1A	16.58	1.49	1.35
11	P1	202	CYC	CHA-C1A	16.54	1.48	1.35
11	Z5	202	CYC	CHA-C1A	16.53	1.48	1.35
11	T5	201	CYC	CHA-C1A	16.49	1.48	1.35
11	Z1	202	CYC	CHA-C1A	16.46	1.48	1.35
11	M1	202	CYC	CHA-C1A	16.46	1.48	1.35
11	03	901	CYC	CHA-C1A	16.46	1.48	1.35
11	X1	202	CYC	CHA-C1A	16.45	1.48	1.35
11	G1	202	CYC	CHA-C1A	16.45	1.48	1.35
11	T1	201	CYC	CHA-C1A	16.45	1.48	1.35
11	13	901	CYC	CHA-C1A	16.44	1.48	1.35
11	R5	202	CYC	CHA-C1A	16.43	1.48	1.35
11	C1	201	CYC	CHA-C1A	16.42	1.48	1.35
11	M5	202	CYC	CHA-C1A	16.41	1.48	1.35
11	I5	202	CYC	CHA-C1A	16.41	1.48	1.35
11	C5	201	CYC	CHA-C1A	16.41	1.48	1.35
11	I1	202	CYC	CHA-C1A	16.40	1.48	1.35
11	U1	202	CYC	CHA-C1A	16.40	1.48	1.35
11	X5	202	CYC	CHA-C1A	16.40	1.48	1.35
11	G5	202	CYC	CHA-C1A	16.40	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	R1	202	CYC	CHA-C1A	16.38	1.48	1.35
11	U5	202	CYC	CHA-C1A	16.37	1.48	1.35
11	K1	202	CYC	CHA-C1A	16.35	1.48	1.35
11	K5	202	CYC	CHA-C1A	16.31	1.48	1.35
11	D1	201	CYC	CHA-C1A	16.31	1.48	1.35
11	D5	201	CYC	CHA-C1A	16.29	1.48	1.35
11	X3	1001	CYC	CHA-C1A	16.26	1.48	1.35
11	Z3	1001	CYC	CHA-C1A	16.24	1.48	1.35
11	k3	1001	CYC	CHA-C1A	16.23	1.48	1.35
11	R3	1001	CYC	CHA-C1A	16.20	1.48	1.35
11	P3	1001	CYC	CHA-C1A	16.20	1.48	1.35
11	d3	1001	CYC	CHA-C1A	16.19	1.48	1.35
11	K3	1001	CYC	CHA-C1A	16.18	1.48	1.35
11	f3	1001	CYC	CHA-C1A	16.17	1.48	1.35
11	G3	1001	CYC	CHA-C1A	16.17	1.48	1.35
11	T3	1001	CYC	CHA-C1A	16.17	1.48	1.35
11	I3	1001	CYC	CHA-C1A	16.16	1.48	1.35
11	o3	1001	CYC	CHA-C1A	16.16	1.48	1.35
11	b3	1001	CYC	CHA-C1A	16.16	1.48	1.35
11	w3	1001	CYC	CHA-C1A	16.16	1.48	1.35
11	s3	1001	CYC	CHA-C1A	16.15	1.48	1.35
11	y3	1001	CYC	CHA-C1A	16.14	1.48	1.35
11	u3	1001	CYC	CHA-C1A	16.13	1.48	1.35
11	q3	1001	CYC	CHA-C1A	16.13	1.48	1.35
11	i3	1001	CYC	CHA-C1A	16.12	1.48	1.35
11	N3	1001	CYC	CHA-C1A	16.09	1.48	1.35
11	D7	1001	CYC	CHA-C1A	15.85	1.48	1.35
11	M7	1001	CYC	CHA-C1A	15.85	1.48	1.35
11	W7	1001	CYC	CHA-C1A	15.81	1.48	1.35
11	P7	1001	CYC	CHA-C1A	15.81	1.48	1.35
11	R7	1001	CYC	CHA-C1A	15.79	1.48	1.35
11	B7	1001	CYC	CHA-C1A	15.78	1.48	1.35
11	F7	1001	CYC	CHA-C1A	15.78	1.48	1.35
11	T7	1001	CYC	CHA-C1A	15.78	1.48	1.35
11	a7	1001	CYC	CHA-C1A	15.78	1.48	1.35
11	I7	1001	CYC	CHA-C1A	15.77	1.48	1.35
11	Y7	1001	CYC	CHA-C1A	15.76	1.48	1.35
11	Q7	1001	CYC	CHA-C1A	15.72	1.48	1.35
11	L7	1001	CYC	CHA-C1A	15.71	1.48	1.35
11	K7	1001	CYC	CHA-C1A	15.70	1.48	1.35
11	Q3	1001	CYC	CHA-C1A	15.69	1.48	1.35
11	E7	1001	CYC	CHA-C1A	15.67	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	H7	1001	CYC	CHA-C1A	15.67	1.48	1.35
11	Z7	1001	CYC	CHA-C1A	15.67	1.48	1.35
11	J7	1001	CYC	CHA-C1A	15.66	1.48	1.35
11	S7	1001	CYC	CHA-C1A	15.63	1.48	1.35
11	A7	1001	CYC	CHA-C1A	15.63	1.48	1.35
11	O7	1001	CYC	CHA-C1A	15.62	1.48	1.35
11	V7	1001	CYC	CHA-C1A	15.61	1.48	1.35
11	O5	201	CYC	CHA-C1A	15.61	1.48	1.35
11	V3	201	CYC	CHA-C1A	15.60	1.48	1.35
11	Z4	201	CYC	CHA-C1A	15.60	1.48	1.35
11	X7	1001	CYC	CHA-C1A	15.60	1.48	1.35
11	C7	1001	CYC	CHA-C1A	15.59	1.48	1.35
11	M4	202	CYC	CHA-C1A	15.58	1.48	1.35
11	L1	201	CYC	CHA-C1A	15.58	1.48	1.35
11	Z8	201	CYC	CHA-C1A	15.57	1.48	1.35
11	X5	203	CYC	CHA-C1A	15.57	1.48	1.35
11	X1	203	CYC	CHA-C1A	15.57	1.48	1.35
11	L5	201	CYC	CHA-C1A	15.56	1.48	1.35
11	V5	202	CYC	CHA-C1A	15.56	1.48	1.35
11	U1	201	CYC	CHA-C1A	15.54	1.48	1.35
11	O1	201	CYC	CHA-C1A	15.54	1.48	1.35
11	B1	201	CYC	CHA-C1A	15.54	1.48	1.35
11	Q5	201	CYC	CHA-C1A	15.54	1.48	1.35
11	C1	202	CYC	CHA-C1A	15.54	1.48	1.35
11	S1	201	CYC	CHA-C1A	15.54	1.48	1.35
11	m3	201	CYC	CHA-C1A	15.53	1.48	1.35
11	T4	201	CYC	CHA-C1A	15.53	1.48	1.35
11	M8	202	CYC	CHA-C1A	15.53	1.48	1.35
11	g3	1001	CYC	CHA-C1A	15.53	1.48	1.35
11	Q1	201	CYC	CHA-C1A	15.52	1.48	1.35
11	H1	201	CYC	CHA-C1A	15.52	1.48	1.35
11	U5	201	CYC	CHA-C1A	15.52	1.48	1.35
11	T8	201	CYC	CHA-C1A	15.52	1.48	1.35
11	H5	201	CYC	CHA-C1A	15.52	1.48	1.35
11	A4	301	CYC	CHA-C1A	15.52	1.48	1.35
11	V1	202	CYC	CHA-C1A	15.51	1.48	1.35
11	P8	201	CYC	CHA-C1A	15.51	1.48	1.35
11	X4	201	CYC	CHA-C1A	15.51	1.48	1.35
11	A8	301	CYC	CHA-C1A	15.50	1.48	1.35
11	I4	203	CYC	CHA-C1A	15.50	1.48	1.35
11	C5	202	CYC	CHA-C1A	15.50	1.48	1.35
11	X8	201	CYC	CHA-C1A	15.50	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	B5	201	CYC	CHA-C1A	15.49	1.48	1.35
11	N8	301	CYC	CHA-C1A	15.49	1.48	1.35
11	S5	201	CYC	CHA-C1A	15.48	1.48	1.35
11	N4	301	CYC	CHA-C1A	15.46	1.48	1.35
11	F5	201	CYC	CHA-C1A	15.46	1.48	1.35
11	G8	202	CYC	CHA-C1A	15.46	1.48	1.35
11	P4	201	CYC	CHA-C1A	15.46	1.48	1.35
11	F1	201	CYC	CHA-C1A	15.45	1.48	1.35
11	I8	201	CYC	CHA-C1A	15.45	1.48	1.35
11	J1	201	CYC	CHA-C1A	15.45	1.48	1.35
11	V4	201	CYC	CHA-C1A	15.45	1.48	1.35
11	G4	202	CYC	CHA-C1A	15.44	1.48	1.35
11	U4	201	CYC	CHA-C1A	15.44	1.48	1.35
11	L4	201	CYC	CHA-C1A	15.43	1.48	1.35
11	K8	201	CYC	CHA-C1A	15.42	1.48	1.35
11	I8	203	CYC	CHA-C1A	15.42	1.48	1.35
11	I4	201	CYC	CHA-C1A	15.42	1.48	1.35
11	E8	201	CYC	CHA-C1A	15.42	1.48	1.35
11	V8	201	CYC	CHA-C1A	15.41	1.48	1.35
11	D4	201	CYC	CHA-C1A	15.41	1.48	1.35
11	L8	201	CYC	CHA-C1A	15.41	1.48	1.35
11	J5	201	CYC	CHA-C1A	15.39	1.48	1.35
11	U8	201	CYC	CHA-C1A	15.37	1.48	1.35
11	E4	201	CYC	CHA-C1A	15.36	1.48	1.35
11	O4	201	CYC	CHA-C1A	15.35	1.47	1.35
11	S8	201	CYC	CHA-C1A	15.33	1.47	1.35
11	O8	201	CYC	CHA-C1A	15.33	1.47	1.35
11	M4	201	CYC	CHA-C1A	15.33	1.47	1.35
11	E8	203	CYC	CHA-C1A	15.32	1.47	1.35
11	E4	203	CYC	CHA-C1A	15.31	1.47	1.35
11	D8	201	CYC	CHA-C1A	15.31	1.47	1.35
11	Y8	201	CYC	CHA-C1A	15.31	1.47	1.35
11	K4	201	CYC	CHA-C1A	15.30	1.47	1.35
11	G4	201	CYC	CHA-C1A	15.29	1.47	1.35
11	W8	201	CYC	CHA-C1A	15.28	1.47	1.35
11	W4	201	CYC	CHA-C1A	15.28	1.47	1.35
11	G8	201	CYC	CHA-C1A	15.26	1.47	1.35
11	M8	201	CYC	CHA-C1A	15.26	1.47	1.35
11	P4	203	CYC	CHA-C1A	15.25	1.47	1.35
11	S4	201	CYC	CHA-C1A	15.25	1.47	1.35
11	P8	203	CYC	CHA-C1A	15.25	1.47	1.35
11	Y4	201	CYC	CHA-C1A	15.20	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	A5	302	CYC	CHA-C1A	15.13	1.47	1.35
11	A1	302	CYC	CHA-C1A	15.10	1.47	1.35
11	R1	201	CYC	CHA-C1A	15.10	1.47	1.35
11	R5	201	CYC	CHA-C1A	15.10	1.47	1.35
11	N5	301	CYC	CHA-C1A	15.09	1.47	1.35
11	P5	201	CYC	CHA-C1A	15.07	1.47	1.35
11	N1	301	CYC	CHA-C1A	15.07	1.47	1.35
11	P1	201	CYC	CHA-C1A	15.06	1.47	1.35
11	X1	201	CYC	CHA-C1A	15.06	1.47	1.35
11	M5	201	CYC	CHA-C1A	15.05	1.47	1.35
11	I1	201	CYC	CHA-C1A	15.05	1.47	1.35
11	X5	201	CYC	CHA-C1A	15.04	1.47	1.35
11	I5	201	CYC	CHA-C1A	15.04	1.47	1.35
11	M1	201	CYC	CHA-C1A	15.03	1.47	1.35
11	Z1	201	CYC	CHA-C1A	15.02	1.47	1.35
11	A1	301	CYC	CHA-C1A	15.02	1.47	1.35
11	V1	201	CYC	CHA-C1A	15.02	1.47	1.35
11	K1	201	CYC	CHA-C1A	15.01	1.47	1.35
11	A5	301	CYC	CHA-C1A	15.01	1.47	1.35
11	Z5	201	CYC	CHA-C1A	15.00	1.47	1.35
11	K5	201	CYC	CHA-C1A	14.99	1.47	1.35
11	V5	201	CYC	CHA-C1A	14.99	1.47	1.35
11	G5	201	CYC	CHA-C1A	14.96	1.47	1.35
11	G1	201	CYC	CHA-C1A	14.95	1.47	1.35
11	13	902	CYC	CHA-C1A	14.80	1.47	1.35
11	W6	201	CYC	CHA-C1A	14.80	1.47	1.35
11	U3	1001	CYC	CHA-C1A	14.79	1.47	1.35
11	H3	1001	CYC	CHA-C1A	14.78	1.47	1.35
11	F6	201	CYC	CHA-C1A	14.78	1.47	1.35
11	W3	1001	CYC	CHA-C1A	14.77	1.47	1.35
11	L6	201	CYC	CHA-C1A	14.77	1.47	1.35
11	r3	1001	CYC	CHA-C1A	14.77	1.47	1.35
11	v3	1001	CYC	CHA-C1A	14.77	1.47	1.35
11	n3	1001	CYC	CHA-C1A	14.76	1.47	1.35
11	S3	1001	CYC	CHA-C1A	14.76	1.47	1.35
11	13	903	CYC	CHA-C1A	14.75	1.47	1.35
11	13	904	CYC	CHA-C1A	14.74	1.47	1.35
11	K2	203	CYC	CHA-C1A	14.73	1.47	1.35
11	O3	1001	CYC	CHA-C1A	14.73	1.47	1.35
11	W2	201	CYC	CHA-C1A	14.73	1.47	1.35
11	z3	1001	CYC	CHA-C1A	14.72	1.47	1.35
11	p3	1001	CYC	CHA-C1A	14.72	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	M3	201	CYC	CHA-C1A	14.72	1.47	1.35
11	C6	203	CYC	CHA-C1A	14.72	1.47	1.35
11	l3	1001	CYC	CHA-C1A	14.71	1.47	1.35
11	J6	201	CYC	CHA-C1A	14.71	1.47	1.35
11	D2	201	CYC	CHA-C1A	14.71	1.47	1.35
11	03	902	CYC	CHA-C1A	14.70	1.47	1.35
11	t3	1001	CYC	CHA-C1A	14.69	1.47	1.35
11	E2	203	CYC	CHA-C1A	14.69	1.47	1.35
11	x3	1001	CYC	CHA-C1A	14.69	1.47	1.35
11	j3	1001	CYC	CHA-C1A	14.69	1.47	1.35
11	e3	1001	CYC	CHA-C1A	14.68	1.47	1.35
11	J3	201	CYC	CHA-C1A	14.68	1.47	1.35
11	B6	201	CYC	CHA-C1A	14.68	1.47	1.35
11	B2	201	CYC	CHA-C1A	14.67	1.47	1.35
11	Q6	201	CYC	CHA-C1A	14.67	1.47	1.35
11	Y6	201	CYC	CHA-C1A	14.67	1.47	1.35
11	c3	1001	CYC	CHA-C1A	14.67	1.47	1.35
11	I2	203	CYC	CHA-C1A	14.66	1.47	1.35
11	X2	203	CYC	CHA-C1A	14.65	1.47	1.35
11	S2	201	CYC	CHA-C1A	14.63	1.47	1.35
11	T2	201	CYC	CHA-C1A	14.63	1.47	1.35
11	H6	201	CYC	CHA-C1A	14.63	1.47	1.35
11	H2	201	CYC	CHA-C1A	14.61	1.47	1.35
11	U6	201	CYC	CHA-C1A	14.60	1.47	1.35
11	Z2	201	CYC	CHA-C1A	14.60	1.47	1.35
11	Q2	201	CYC	CHA-C1A	14.60	1.47	1.35
11	R6	202	CYC	CHA-C1A	14.59	1.47	1.35
11	O6	201	CYC	CHA-C1A	14.58	1.47	1.35
11	I6	201	CYC	CHA-C1A	14.13	1.46	1.35
11	A2	301	CYC	CHA-C1A	14.04	1.46	1.35
11	K2	201	CYC	CHA-C1A	14.04	1.46	1.35
11	I2	201	CYC	CHA-C1A	14.04	1.46	1.35
11	C2	201	CYC	CHA-C1A	14.03	1.46	1.35
11	E6	201	CYC	CHA-C1A	14.03	1.46	1.35
11	A6	301	CYC	CHA-C1A	14.02	1.46	1.35
11	P2	201	CYC	CHA-C1A	14.00	1.46	1.35
11	K6	201	CYC	CHA-C1A	14.00	1.46	1.35
11	E2	201	CYC	CHA-C1A	14.00	1.46	1.35
11	C6	201	CYC	CHA-C1A	13.99	1.46	1.35
11	M6	201	CYC	CHA-C1A	13.98	1.46	1.35
11	Z2	202	CYC	CHA-C1A	13.98	1.46	1.35
11	M2	201	CYC	CHA-C1A	13.96	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	P6	201	CYC	CHA-C1A	13.94	1.46	1.35
11	N2	302	CYC	CHA-C1A	13.94	1.46	1.35
11	V2	201	CYC	CHA-C1A	13.94	1.46	1.35
11	X6	201	CYC	CHA-C1A	13.94	1.46	1.35
11	V6	201	CYC	CHA-C1A	13.93	1.46	1.35
11	N6	301	CYC	CHA-C1A	13.92	1.46	1.35
11	N2	301	CYC	CHA-C1A	13.90	1.46	1.35
11	Z6	201	CYC	CHA-C1A	13.89	1.46	1.35
11	X2	201	CYC	CHA-C1A	13.88	1.46	1.35
11	N6	302	CYC	CHA-C1A	13.87	1.46	1.35
11	U4	201	CYC	C3B-C2B	6.11	1.49	1.36
11	D4	201	CYC	C3B-C2B	6.09	1.49	1.36
11	M4	201	CYC	C3B-C2B	6.09	1.49	1.36
11	W4	201	CYC	C3B-C2B	6.09	1.49	1.36
11	M8	201	CYC	C3B-C2B	6.09	1.49	1.36
11	U8	201	CYC	C3B-C2B	6.09	1.49	1.36
11	D8	201	CYC	C3B-C2B	6.08	1.49	1.36
11	S4	201	CYC	C3B-C2B	6.08	1.49	1.36
11	Y4	201	CYC	C3B-C2B	6.07	1.49	1.36
11	W8	201	CYC	C3B-C2B	6.07	1.49	1.36
11	I4	203	CYC	C3B-C2B	6.07	1.49	1.36
11	G8	201	CYC	C3B-C2B	6.07	1.49	1.36
11	S8	201	CYC	C3B-C2B	6.06	1.49	1.36
11	Y8	201	CYC	C3B-C2B	6.06	1.49	1.36
11	G4	201	CYC	C3B-C2B	6.06	1.49	1.36
11	E8	203	CYC	C3B-C2B	6.05	1.49	1.36
11	I8	203	CYC	C3B-C2B	6.05	1.49	1.36
11	E4	203	CYC	C3B-C2B	6.04	1.49	1.36
11	L4	201	CYC	C3B-C2B	6.04	1.49	1.36
11	O8	201	CYC	C3B-C2B	6.04	1.49	1.36
11	L8	201	CYC	C3B-C2B	6.02	1.49	1.36
11	P8	203	CYC	C3B-C2B	6.02	1.49	1.36
11	P4	203	CYC	C3B-C2B	6.01	1.49	1.36
11	O4	201	CYC	C3B-C2B	6.00	1.49	1.36
11	K5	202	CYC	C3B-C2B	5.89	1.49	1.36
11	C5	201	CYC	C3B-C2B	5.88	1.49	1.36
11	P1	202	CYC	C3B-C2B	5.88	1.49	1.36
11	P5	202	CYC	C3B-C2B	5.87	1.49	1.36
11	K1	202	CYC	C3B-C2B	5.87	1.49	1.36
11	G5	202	CYC	C3B-C2B	5.87	1.49	1.36
11	I5	202	CYC	C3B-C2B	5.87	1.49	1.36
11	X1	202	CYC	C3B-C2B	5.87	1.49	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	X5	202	CYC	C3B-C2B	5.87	1.49	1.36
11	M5	202	CYC	C3B-C2B	5.87	1.49	1.36
11	I1	202	CYC	C3B-C2B	5.86	1.49	1.36
11	T1	201	CYC	C3B-C2B	5.86	1.49	1.36
11	U5	202	CYC	C3B-C2B	5.85	1.49	1.36
11	M1	202	CYC	C3B-C2B	5.85	1.49	1.36
11	R1	202	CYC	C3B-C2B	5.85	1.49	1.36
11	R5	202	CYC	C3B-C2B	5.85	1.49	1.36
11	D5	201	CYC	C3B-C2B	5.85	1.49	1.36
11	U1	202	CYC	C3B-C2B	5.85	1.49	1.36
11	C1	201	CYC	C3B-C2B	5.85	1.49	1.36
11	G1	202	CYC	C3B-C2B	5.85	1.49	1.36
11	T5	201	CYC	C3B-C2B	5.84	1.49	1.36
11	D1	201	CYC	C3B-C2B	5.84	1.49	1.36
11	Z1	202	CYC	C3B-C2B	5.84	1.49	1.36
11	Z5	202	CYC	C3B-C2B	5.83	1.49	1.36
11	U6	201	CYC	C3B-C2B	5.78	1.49	1.36
11	F6	201	CYC	C3B-C2B	5.77	1.49	1.36
11	C6	203	CYC	C3B-C2B	5.77	1.49	1.36
11	Z2	201	CYC	C3B-C2B	5.75	1.49	1.36
11	E2	203	CYC	C3B-C2B	5.75	1.49	1.36
11	D2	201	CYC	C3B-C2B	5.75	1.49	1.36
11	F5	201	CYC	C3B-C2B	5.75	1.48	1.36
11	R6	202	CYC	C3B-C2B	5.74	1.48	1.36
11	J6	201	CYC	C3B-C2B	5.74	1.48	1.36
11	W2	201	CYC	C3B-C2B	5.74	1.48	1.36
11	S2	201	CYC	C3B-C2B	5.74	1.48	1.36
11	C1	202	CYC	C3B-C2B	5.74	1.48	1.36
11	Y6	201	CYC	C3B-C2B	5.74	1.48	1.36
11	I2	203	CYC	C3B-C2B	5.73	1.48	1.36
11	H2	201	CYC	C3B-C2B	5.73	1.48	1.36
11	T2	201	CYC	C3B-C2B	5.73	1.48	1.36
11	Q2	201	CYC	C3B-C2B	5.73	1.48	1.36
11	L6	201	CYC	C3B-C2B	5.73	1.48	1.36
11	W6	201	CYC	C3B-C2B	5.73	1.48	1.36
11	C5	202	CYC	C3B-C2B	5.73	1.48	1.36
11	X2	203	CYC	C3B-C2B	5.72	1.48	1.36
11	K2	203	CYC	C3B-C2B	5.72	1.48	1.36
11	H1	201	CYC	C3B-C2B	5.72	1.48	1.36
11	13	904	CYC	C2A-C3A	5.71	1.48	1.36
11	F1	201	CYC	C3B-C2B	5.71	1.48	1.36
11	L1	201	CYC	C3B-C2B	5.71	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	B6	201	CYC	C3B-C2B	5.70	1.48	1.36
11	H5	201	CYC	C3B-C2B	5.70	1.48	1.36
11	J1	201	CYC	C3B-C2B	5.70	1.48	1.36
11	B2	201	CYC	C3B-C2B	5.70	1.48	1.36
11	V5	202	CYC	C3B-C2B	5.70	1.48	1.36
11	e3	1001	CYC	C2A-C3A	5.70	1.48	1.36
11	B5	201	CYC	C3B-C2B	5.70	1.48	1.36
11	O1	201	CYC	C3B-C2B	5.70	1.48	1.36
11	H6	201	CYC	C3B-C2B	5.70	1.48	1.36
11	Q5	201	CYC	C3B-C2B	5.69	1.48	1.36
11	n3	1001	CYC	C2A-C3A	5.69	1.48	1.36
11	O6	201	CYC	C3B-C2B	5.69	1.48	1.36
11	O5	201	CYC	C3B-C2B	5.69	1.48	1.36
11	O3	1001	CYC	C2A-C3A	5.69	1.48	1.36
11	Q6	201	CYC	C3B-C2B	5.69	1.48	1.36
11	X1	203	CYC	C3B-C2B	5.69	1.48	1.36
11	M3	201	CYC	C2A-C3A	5.69	1.48	1.36
11	r3	1001	CYC	C2A-C3A	5.69	1.48	1.36
11	L5	201	CYC	C3B-C2B	5.69	1.48	1.36
11	S5	201	CYC	C3B-C2B	5.69	1.48	1.36
11	B1	201	CYC	C3B-C2B	5.69	1.48	1.36
11	E7	1001	CYC	C2A-C3A	5.69	1.48	1.36
11	13	902	CYC	C2A-C3A	5.68	1.48	1.36
11	J5	201	CYC	C3B-C2B	5.68	1.48	1.36
11	l3	1001	CYC	C2A-C3A	5.68	1.48	1.36
11	X3	1001	CYC	C2A-C3A	5.68	1.48	1.36
11	U5	201	CYC	C3B-C2B	5.68	1.48	1.36
11	W3	1001	CYC	C2A-C3A	5.68	1.48	1.36
11	Q1	201	CYC	C3B-C2B	5.68	1.48	1.36
11	v3	1001	CYC	C2A-C3A	5.68	1.48	1.36
11	03	902	CYC	C2A-C3A	5.68	1.48	1.36
11	J3	201	CYC	C2A-C3A	5.68	1.48	1.36
11	X5	203	CYC	C3B-C2B	5.68	1.48	1.36
11	V1	202	CYC	C3B-C2B	5.68	1.48	1.36
11	U1	201	CYC	C3B-C2B	5.68	1.48	1.36
11	x3	1001	CYC	C2A-C3A	5.67	1.48	1.36
11	i3	1001	CYC	C2A-C3A	5.67	1.48	1.36
11	j3	1001	CYC	C2A-C3A	5.67	1.48	1.36
11	c3	1001	CYC	C2A-C3A	5.67	1.48	1.36
11	p3	1001	CYC	C2A-C3A	5.67	1.48	1.36
11	G3	1001	CYC	C2A-C3A	5.67	1.48	1.36
11	S1	201	CYC	C3B-C2B	5.66	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	H3	1001	CYC	C2A-C3A	5.66	1.48	1.36
11	U3	1001	CYC	C2A-C3A	5.66	1.48	1.36
11	s3	1001	CYC	C2A-C3A	5.66	1.48	1.36
11	Q7	1001	CYC	C2A-C3A	5.66	1.48	1.36
11	13	903	CYC	C2A-C3A	5.66	1.48	1.36
11	L7	1001	CYC	C2A-C3A	5.65	1.48	1.36
11	d3	1001	CYC	C2A-C3A	5.65	1.48	1.36
11	Z7	1001	CYC	C3B-C2B	5.65	1.48	1.36
11	S3	1001	CYC	C2A-C3A	5.65	1.48	1.36
11	Z7	1001	CYC	C2A-C3A	5.65	1.48	1.36
11	R3	1001	CYC	C2A-C3A	5.65	1.48	1.36
11	z3	1001	CYC	C2A-C3A	5.65	1.48	1.36
11	O7	1001	CYC	C2A-C3A	5.65	1.48	1.36
11	k3	1001	CYC	C2A-C3A	5.65	1.48	1.36
11	S7	1001	CYC	C2A-C3A	5.65	1.48	1.36
11	t3	1001	CYC	C2A-C3A	5.64	1.48	1.36
11	P3	1001	CYC	C2A-C3A	5.64	1.48	1.36
11	y3	1001	CYC	C2A-C3A	5.64	1.48	1.36
11	L7	1001	CYC	C3B-C2B	5.64	1.48	1.36
11	H7	1001	CYC	C2A-C3A	5.64	1.48	1.36
11	w3	1001	CYC	C2A-C3A	5.64	1.48	1.36
11	K3	1001	CYC	C2A-C3A	5.64	1.48	1.36
11	V7	1001	CYC	C2A-C3A	5.64	1.48	1.36
11	J7	1001	CYC	C2A-C3A	5.64	1.48	1.36
11	q3	1001	CYC	C2A-C3A	5.63	1.48	1.36
11	N3	1001	CYC	C2A-C3A	5.63	1.48	1.36
11	T3	1001	CYC	C2A-C3A	5.63	1.48	1.36
11	f3	1001	CYC	C2A-C3A	5.63	1.48	1.36
11	Z3	1001	CYC	C2A-C3A	5.63	1.48	1.36
11	X7	1001	CYC	C2A-C3A	5.62	1.48	1.36
11	A7	1001	CYC	C2A-C3A	5.62	1.48	1.36
11	J7	1001	CYC	C3B-C2B	5.62	1.48	1.36
11	V7	1001	CYC	C3B-C2B	5.62	1.48	1.36
11	I3	1001	CYC	C2A-C3A	5.62	1.48	1.36
11	C7	1001	CYC	C2A-C3A	5.62	1.48	1.36
11	H7	1001	CYC	C3B-C2B	5.61	1.48	1.36
11	o3	1001	CYC	C2A-C3A	5.61	1.48	1.36
11	S7	1001	CYC	C3B-C2B	5.61	1.48	1.36
11	b3	1001	CYC	C2A-C3A	5.61	1.48	1.36
11	u3	1001	CYC	C2A-C3A	5.60	1.48	1.36
11	Q7	1001	CYC	C3B-C2B	5.60	1.48	1.36
11	O7	1001	CYC	C3B-C2B	5.60	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	X7	1001	CYC	C3B-C2B	5.60	1.48	1.36
11	A7	1001	CYC	C3B-C2B	5.59	1.48	1.36
11	E7	1001	CYC	C3B-C2B	5.59	1.48	1.36
11	C7	1001	CYC	C3B-C2B	5.59	1.48	1.36
11	T7	1001	CYC	C2A-C3A	5.51	1.48	1.36
11	D7	1001	CYC	C2A-C3A	5.50	1.48	1.36
11	Y7	1001	CYC	C2A-C3A	5.50	1.48	1.36
11	W7	1001	CYC	C2A-C3A	5.49	1.48	1.36
11	P7	1001	CYC	C2A-C3A	5.49	1.48	1.36
11	M7	1001	CYC	C2A-C3A	5.48	1.48	1.36
11	Z5	201	CYC	C3B-C2B	5.48	1.48	1.36
11	G4	202	CYC	C3B-C2B	5.48	1.48	1.36
11	B7	1001	CYC	C2A-C3A	5.48	1.48	1.36
11	P5	201	CYC	C3B-C2B	5.48	1.48	1.36
11	K7	1001	CYC	C2A-C3A	5.48	1.48	1.36
11	a7	1001	CYC	C2A-C3A	5.46	1.48	1.36
11	I8	201	CYC	C3B-C2B	5.46	1.48	1.36
11	A1	302	CYC	C3B-C2B	5.46	1.48	1.36
11	P1	201	CYC	C3B-C2B	5.46	1.48	1.36
11	M1	201	CYC	C3B-C2B	5.46	1.48	1.36
11	M4	202	CYC	C3B-C2B	5.46	1.48	1.36
11	K4	201	CYC	C3B-C2B	5.46	1.48	1.36
11	F7	1001	CYC	C2A-C3A	5.46	1.48	1.36
11	G8	202	CYC	C3B-C2B	5.46	1.48	1.36
11	A5	302	CYC	C3B-C2B	5.45	1.48	1.36
11	Z1	201	CYC	C3B-C2B	5.45	1.48	1.36
11	I7	1001	CYC	C2A-C3A	5.45	1.48	1.36
11	V1	201	CYC	C3B-C2B	5.45	1.48	1.36
11	A5	301	CYC	C3B-C2B	5.45	1.48	1.36
11	A1	301	CYC	C3B-C2B	5.44	1.48	1.36
11	V5	201	CYC	C3B-C2B	5.44	1.48	1.36
11	T4	201	CYC	C3B-C2B	5.44	1.48	1.36
11	V8	201	CYC	C3B-C2B	5.44	1.48	1.36
11	K5	201	CYC	C3B-C2B	5.44	1.48	1.36
11	N5	301	CYC	C3B-C2B	5.43	1.48	1.36
11	R7	1001	CYC	C2A-C3A	5.43	1.48	1.36
11	E8	201	CYC	C3B-C2B	5.43	1.48	1.36
11	K8	201	CYC	C3B-C2B	5.43	1.48	1.36
11	Z4	201	CYC	C3B-C2B	5.43	1.48	1.36
11	Z8	201	CYC	C3B-C2B	5.43	1.48	1.36
11	M8	202	CYC	C3B-C2B	5.43	1.48	1.36
11	M5	201	CYC	C3B-C2B	5.43	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	R5	201	CYC	C3B-C2B	5.43	1.48	1.36
11	G5	201	CYC	C3B-C2B	5.43	1.48	1.36
11	A8	301	CYC	C3B-C2B	5.43	1.48	1.36
11	R1	201	CYC	C3B-C2B	5.43	1.48	1.36
11	N8	301	CYC	C3B-C2B	5.43	1.48	1.36
11	I5	201	CYC	C3B-C2B	5.42	1.48	1.36
11	N1	301	CYC	C2A-C3A	5.42	1.48	1.36
11	A4	301	CYC	C3B-C2B	5.42	1.48	1.36
11	K1	201	CYC	C3B-C2B	5.42	1.48	1.36
11	N1	301	CYC	C3B-C2B	5.42	1.48	1.36
11	V4	201	CYC	C3B-C2B	5.42	1.48	1.36
11	I4	201	CYC	C3B-C2B	5.42	1.48	1.36
11	M6	201	CYC	C3B-C2B	5.42	1.48	1.36
11	I1	201	CYC	C3B-C2B	5.42	1.48	1.36
11	P4	201	CYC	C3B-C2B	5.42	1.48	1.36
11	T8	201	CYC	C3B-C2B	5.42	1.48	1.36
11	I5	201	CYC	C2A-C3A	5.42	1.48	1.36
11	P8	201	CYC	C3B-C2B	5.42	1.48	1.36
11	X4	201	CYC	C3B-C2B	5.41	1.48	1.36
11	E4	201	CYC	C3B-C2B	5.41	1.48	1.36
11	N5	301	CYC	C2A-C3A	5.41	1.48	1.36
11	A5	302	CYC	C2A-C3A	5.41	1.48	1.36
11	Z6	201	CYC	C3B-C2B	5.41	1.48	1.36
11	R5	201	CYC	C2A-C3A	5.40	1.48	1.36
11	X8	201	CYC	C3B-C2B	5.40	1.48	1.36
11	G1	201	CYC	C3B-C2B	5.40	1.48	1.36
11	A1	302	CYC	C2A-C3A	5.40	1.48	1.36
11	A5	301	CYC	C2A-C3A	5.40	1.48	1.36
11	K5	201	CYC	C2A-C3A	5.40	1.48	1.36
11	A6	301	CYC	C3B-C2B	5.40	1.48	1.36
11	X1	201	CYC	C3B-C2B	5.40	1.48	1.36
11	M5	201	CYC	C2A-C3A	5.40	1.48	1.36
11	P6	201	CYC	C3B-C2B	5.40	1.48	1.36
11	I1	201	CYC	C2A-C3A	5.39	1.48	1.36
11	R1	201	CYC	C2A-C3A	5.39	1.48	1.36
11	Z5	201	CYC	C2A-C3A	5.39	1.48	1.36
11	E2	201	CYC	C3B-C2B	5.39	1.48	1.36
11	M2	201	CYC	C3B-C2B	5.39	1.48	1.36
11	X6	201	CYC	C3B-C2B	5.39	1.48	1.36
11	A1	301	CYC	C2A-C3A	5.39	1.48	1.36
11	Z2	202	CYC	C3B-C2B	5.39	1.48	1.36
11	K1	201	CYC	C2A-C3A	5.38	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	M8	201	CYC	C2A-C3A	5.38	1.48	1.36
11	Z1	201	CYC	C2A-C3A	5.38	1.48	1.36
11	E6	201	CYC	C3B-C2B	5.38	1.48	1.36
11	A2	301	CYC	C3B-C2B	5.38	1.48	1.36
11	M1	201	CYC	C2A-C3A	5.38	1.48	1.36
11	V5	201	CYC	C2A-C3A	5.38	1.48	1.36
11	I6	201	CYC	C3B-C2B	5.38	1.48	1.36
11	V1	201	CYC	C2A-C3A	5.38	1.48	1.36
11	X5	201	CYC	C3B-C2B	5.38	1.48	1.36
11	X1	201	CYC	C2A-C3A	5.38	1.48	1.36
11	N4	301	CYC	C3B-C2B	5.38	1.48	1.36
11	U4	201	CYC	C2A-C3A	5.38	1.48	1.36
11	X2	201	CYC	C3B-C2B	5.37	1.48	1.36
11	G5	201	CYC	C2A-C3A	5.37	1.48	1.36
11	P4	201	CYC	C2A-C3A	5.37	1.48	1.36
11	A4	301	CYC	C2A-C3A	5.37	1.48	1.36
11	I2	201	CYC	C3B-C2B	5.37	1.48	1.36
11	C2	201	CYC	C3B-C2B	5.37	1.48	1.36
11	M4	201	CYC	C2A-C3A	5.37	1.48	1.36
11	P2	201	CYC	C3B-C2B	5.37	1.48	1.36
11	N6	301	CYC	C3B-C2B	5.36	1.48	1.36
11	C6	201	CYC	C3B-C2B	5.36	1.48	1.36
11	G8	201	CYC	C2A-C3A	5.36	1.48	1.36
11	K4	201	CYC	C2A-C3A	5.36	1.48	1.36
11	X5	201	CYC	C2A-C3A	5.36	1.48	1.36
11	X8	201	CYC	C2A-C3A	5.36	1.48	1.36
11	O8	201	CYC	C2A-C3A	5.35	1.48	1.36
11	U8	201	CYC	C2A-C3A	5.35	1.48	1.36
11	G1	201	CYC	C2A-C3A	5.35	1.48	1.36
11	K6	201	CYC	C3B-C2B	5.35	1.48	1.36
11	K2	201	CYC	C3B-C2B	5.35	1.48	1.36
11	P1	201	CYC	C2A-C3A	5.35	1.48	1.36
11	Y8	201	CYC	C2A-C3A	5.35	1.48	1.36
11	D4	201	CYC	C2A-C3A	5.35	1.48	1.36
11	V6	201	CYC	C3B-C2B	5.35	1.48	1.36
11	S4	201	CYC	C2A-C3A	5.35	1.48	1.36
11	03	901	CYC	C2A-C3A	5.35	1.48	1.36
11	N2	301	CYC	C3B-C2B	5.35	1.48	1.36
11	G4	201	CYC	C2A-C3A	5.35	1.48	1.36
11	P5	201	CYC	C2A-C3A	5.35	1.48	1.36
11	O4	201	CYC	C2A-C3A	5.35	1.48	1.36
11	I4	203	CYC	C2A-C3A	5.34	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	W4	201	CYC	C2A-C3A	5.34	1.48	1.36
11	N6	302	CYC	C3B-C2B	5.34	1.48	1.36
11	A8	301	CYC	C2A-C3A	5.34	1.48	1.36
11	I8	203	CYC	C2A-C3A	5.34	1.48	1.36
11	W8	201	CYC	C2A-C3A	5.34	1.48	1.36
11	S8	201	CYC	C2A-C3A	5.34	1.48	1.36
11	13	901	CYC	C2A-C3A	5.34	1.48	1.36
11	E8	201	CYC	C2A-C3A	5.34	1.48	1.36
11	Z4	201	CYC	C2A-C3A	5.33	1.48	1.36
11	D8	201	CYC	C2A-C3A	5.33	1.48	1.36
11	K8	201	CYC	C2A-C3A	5.33	1.48	1.36
11	T4	201	CYC	C2A-C3A	5.33	1.48	1.36
11	N8	301	CYC	C2A-C3A	5.33	1.48	1.36
11	Y4	201	CYC	C2A-C3A	5.33	1.48	1.36
11	N2	302	CYC	C3B-C2B	5.33	1.48	1.36
11	P8	201	CYC	C2A-C3A	5.33	1.48	1.36
11	Z8	201	CYC	C2A-C3A	5.33	1.48	1.36
11	P8	203	CYC	C2A-C3A	5.33	1.48	1.36
11	X4	201	CYC	C2A-C3A	5.33	1.48	1.36
11	V2	201	CYC	C3B-C2B	5.32	1.48	1.36
11	T8	201	CYC	C2A-C3A	5.32	1.48	1.36
11	N4	301	CYC	C2A-C3A	5.32	1.48	1.36
11	G4	202	CYC	C2A-C3A	5.32	1.48	1.36
11	E8	203	CYC	C2A-C3A	5.31	1.48	1.36
11	G8	202	CYC	C2A-C3A	5.31	1.48	1.36
11	L8	201	CYC	C2A-C3A	5.31	1.48	1.36
11	E4	201	CYC	C2A-C3A	5.31	1.48	1.36
11	I8	201	CYC	C2A-C3A	5.31	1.48	1.36
11	M4	202	CYC	C2A-C3A	5.30	1.48	1.36
11	E4	203	CYC	C2A-C3A	5.30	1.48	1.36
11	M8	202	CYC	C2A-C3A	5.30	1.48	1.36
11	V8	201	CYC	C2A-C3A	5.30	1.48	1.36
11	L4	201	CYC	C2A-C3A	5.30	1.48	1.36
11	P4	203	CYC	C2A-C3A	5.28	1.48	1.36
11	I4	201	CYC	C2A-C3A	5.28	1.47	1.36
11	Q5	201	CYC	CHB-C1B	5.27	1.50	1.38
11	I6	202	CYC	CHA-C1A	5.27	1.39	1.35
11	m3	201	CYC	C3B-C2B	5.26	1.47	1.36
11	V1	202	CYC	CHB-C1B	5.26	1.50	1.38
11	V5	202	CYC	CHB-C1B	5.26	1.50	1.38
11	I2	202	CYC	CHA-C1A	5.26	1.39	1.35
11	V4	201	CYC	C2A-C3A	5.26	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	S1	201	CYC	CHB-C1B	5.25	1.50	1.38
11	V3	201	CYC	C3B-C2B	5.24	1.47	1.36
11	L5	201	CYC	CHB-C1B	5.24	1.50	1.38
11	F5	201	CYC	CHB-C1B	5.24	1.50	1.38
11	13	902	CYC	C3B-C2B	5.24	1.47	1.36
11	Q1	201	CYC	CHB-C1B	5.24	1.50	1.38
11	L1	201	CYC	CHB-C1B	5.24	1.50	1.38
11	O5	201	CYC	CHB-C1B	5.24	1.50	1.38
11	F1	201	CYC	CHB-C1B	5.23	1.50	1.38
11	J1	201	CYC	CHB-C1B	5.23	1.50	1.38
11	O1	201	CYC	CHB-C1B	5.23	1.50	1.38
11	B1	201	CYC	CHB-C1B	5.22	1.50	1.38
11	U1	201	CYC	CHB-C1B	5.22	1.50	1.38
11	H5	201	CYC	CHB-C1B	5.22	1.50	1.38
11	S5	201	CYC	CHB-C1B	5.22	1.50	1.38
11	J5	201	CYC	CHB-C1B	5.22	1.50	1.38
11	B5	201	CYC	CHB-C1B	5.22	1.50	1.38
11	X1	203	CYC	CHB-C1B	5.21	1.50	1.38
11	e3	1001	CYC	C3B-C2B	5.21	1.47	1.36
11	H3	1001	CYC	C3B-C2B	5.21	1.47	1.36
11	U5	201	CYC	CHB-C1B	5.21	1.50	1.38
11	g3	1001	CYC	C3B-C2B	5.21	1.47	1.36
11	J3	201	CYC	C3B-C2B	5.20	1.47	1.36
11	w3	1001	CYC	C3B-C2B	5.20	1.47	1.36
11	C1	202	CYC	CHB-C1B	5.20	1.50	1.38
11	r3	1001	CYC	C3B-C2B	5.20	1.47	1.36
11	v3	1001	CYC	C3B-C2B	5.20	1.47	1.36
11	t3	1001	CYC	C3B-C2B	5.20	1.47	1.36
11	13	903	CYC	C3B-C2B	5.20	1.47	1.36
11	H1	201	CYC	CHB-C1B	5.20	1.50	1.38
11	c3	1001	CYC	C3B-C2B	5.20	1.47	1.36
11	Q3	1001	CYC	C3B-C2B	5.19	1.47	1.36
11	b3	1001	CYC	C3B-C2B	5.19	1.47	1.36
11	03	902	CYC	C3B-C2B	5.19	1.47	1.36
11	f3	1001	CYC	C3B-C2B	5.19	1.47	1.36
11	V3	201	CYC	C2A-C3A	5.19	1.47	1.36
11	Z3	1001	CYC	C3B-C2B	5.19	1.47	1.36
11	q3	1001	CYC	C3B-C2B	5.19	1.47	1.36
11	p3	1001	CYC	C3B-C2B	5.19	1.47	1.36
11	j3	1001	CYC	C3B-C2B	5.19	1.47	1.36
11	X5	203	CYC	CHB-C1B	5.18	1.50	1.38
11	l3	1001	CYC	C3B-C2B	5.18	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	z3	1001	CYC	C3B-C2B	5.18	1.47	1.36
11	S3	1001	CYC	C3B-C2B	5.18	1.47	1.36
11	13	904	CYC	C3B-C2B	5.18	1.47	1.36
11	n3	1001	CYC	C3B-C2B	5.18	1.47	1.36
11	I3	1001	CYC	C3B-C2B	5.18	1.47	1.36
11	M3	201	CYC	C3B-C2B	5.18	1.47	1.36
11	O3	1001	CYC	C3B-C2B	5.18	1.47	1.36
11	P3	1001	CYC	C3B-C2B	5.18	1.47	1.36
11	C5	202	CYC	CHB-C1B	5.17	1.50	1.38
11	R3	1001	CYC	C3B-C2B	5.17	1.47	1.36
11	I4	202	CYC	CHA-C1A	5.17	1.39	1.35
11	W3	1001	CYC	C3B-C2B	5.17	1.47	1.36
11	G3	1001	CYC	C3B-C2B	5.17	1.47	1.36
11	u3	1001	CYC	C3B-C2B	5.17	1.47	1.36
11	U3	1001	CYC	C3B-C2B	5.17	1.47	1.36
11	N3	1001	CYC	C3B-C2B	5.17	1.47	1.36
11	C8	201	CYC	CHA-C1A	5.17	1.39	1.35
11	o3	1001	CYC	C3B-C2B	5.17	1.47	1.36
11	m3	201	CYC	C2A-C3A	5.17	1.47	1.36
11	C6	202	CYC	CHA-C1A	5.17	1.39	1.35
11	k3	1001	CYC	C3B-C2B	5.17	1.47	1.36
11	x3	1001	CYC	C3B-C2B	5.16	1.47	1.36
11	d3	1001	CYC	C3B-C2B	5.16	1.47	1.36
11	T3	1001	CYC	C3B-C2B	5.16	1.47	1.36
11	I7	1001	CYC	C3B-C2B	5.16	1.47	1.36
11	R7	1001	CYC	C3B-C2B	5.15	1.47	1.36
11	s3	1001	CYC	C3B-C2B	5.15	1.47	1.36
11	K7	1001	CYC	C3B-C2B	5.14	1.47	1.36
11	X3	1001	CYC	C3B-C2B	5.14	1.47	1.36
11	I8	202	CYC	CHA-C1A	5.14	1.39	1.35
11	K3	1001	CYC	C3B-C2B	5.14	1.47	1.36
11	a7	1001	CYC	C3B-C2B	5.14	1.47	1.36
11	i3	1001	CYC	C3B-C2B	5.14	1.47	1.36
11	D7	1001	CYC	C3B-C2B	5.14	1.47	1.36
11	L5	201	CYC	C2A-C3A	5.13	1.47	1.36
11	O5	201	CYC	C2A-C3A	5.13	1.47	1.36
11	y3	1001	CYC	C3B-C2B	5.13	1.47	1.36
11	L1	201	CYC	C2A-C3A	5.12	1.47	1.36
11	H5	201	CYC	C2A-C3A	5.12	1.47	1.36
11	J5	201	CYC	C2A-C3A	5.11	1.47	1.36
11	P7	1001	CYC	C3B-C2B	5.11	1.47	1.36
11	F7	1001	CYC	C3B-C2B	5.11	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	Q5	201	CYC	C2A-C3A	5.11	1.47	1.36
11	M7	1001	CYC	C3B-C2B	5.11	1.47	1.36
11	O1	201	CYC	C2A-C3A	5.10	1.47	1.36
11	S1	201	CYC	C2A-C3A	5.10	1.47	1.36
11	F5	201	CYC	C2A-C3A	5.10	1.47	1.36
11	H1	201	CYC	C2A-C3A	5.09	1.47	1.36
11	J1	201	CYC	C2A-C3A	5.09	1.47	1.36
11	B7	1001	CYC	C3B-C2B	5.09	1.47	1.36
11	C1	202	CYC	C2A-C3A	5.09	1.47	1.36
11	Y7	1001	CYC	C3B-C2B	5.09	1.47	1.36
11	F1	201	CYC	C2A-C3A	5.09	1.47	1.36
11	T7	1001	CYC	C3B-C2B	5.08	1.47	1.36
11	Q1	201	CYC	C2A-C3A	5.08	1.47	1.36
11	S5	201	CYC	C2A-C3A	5.08	1.47	1.36
11	X5	203	CYC	C2A-C3A	5.08	1.47	1.36
11	V1	202	CYC	C2A-C3A	5.08	1.47	1.36
11	B1	201	CYC	C2A-C3A	5.07	1.47	1.36
11	C4	201	CYC	CHA-C1A	5.07	1.39	1.35
11	C5	202	CYC	C2A-C3A	5.07	1.47	1.36
11	C2	202	CYC	CHA-C1A	5.07	1.39	1.35
11	V5	202	CYC	C2A-C3A	5.07	1.47	1.36
11	U5	201	CYC	C2A-C3A	5.07	1.47	1.36
11	W7	1001	CYC	C3B-C2B	5.06	1.47	1.36
11	03	901	CYC	C3B-C2B	5.06	1.47	1.36
11	U1	201	CYC	C2A-C3A	5.06	1.47	1.36
11	B5	201	CYC	C2A-C3A	5.06	1.47	1.36
11	X1	203	CYC	C2A-C3A	5.05	1.47	1.36
11	V8	202	CYC	CHA-C1A	5.05	1.39	1.35
11	R4	201	CYC	CHA-C1A	5.05	1.39	1.35
11	R6	201	CYC	CHA-C1A	5.04	1.39	1.35
11	13	901	CYC	C3B-C2B	5.02	1.47	1.36
11	V4	202	CYC	CHA-C1A	5.01	1.39	1.35
11	V2	202	CYC	CHA-C1A	5.00	1.39	1.35
11	V6	202	CYC	CHA-C1A	4.98	1.39	1.35
11	g3	1001	CYC	C2A-C3A	4.98	1.47	1.36
11	R8	201	CYC	CHA-C1A	4.97	1.39	1.35
11	E2	202	CYC	CHA-C1A	4.94	1.39	1.35
11	Q3	1001	CYC	C2A-C3A	4.94	1.47	1.36
11	V6	201	CYC	C2A-C3A	4.94	1.47	1.36
11	R2	201	CYC	CHA-C1A	4.93	1.39	1.35
11	E4	202	CYC	CHA-C1A	4.93	1.39	1.35
11	E6	201	CYC	C2A-C3A	4.93	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	P8	202	CYC	CHA-C1A	4.91	1.39	1.35
11	V2	201	CYC	C2A-C3A	4.91	1.47	1.36
11	E2	201	CYC	C2A-C3A	4.91	1.47	1.36
11	Z2	202	CYC	C2A-C3A	4.91	1.47	1.36
11	A6	301	CYC	C2A-C3A	4.91	1.47	1.36
11	Z6	201	CYC	C2A-C3A	4.91	1.47	1.36
11	I2	201	CYC	C2A-C3A	4.91	1.47	1.36
11	P6	201	CYC	C2A-C3A	4.91	1.47	1.36
11	I6	201	CYC	C2A-C3A	4.91	1.47	1.36
11	E6	202	CYC	CHA-C1A	4.90	1.39	1.35
11	X2	201	CYC	C2A-C3A	4.90	1.47	1.36
11	K6	201	CYC	C2A-C3A	4.90	1.47	1.36
11	P2	201	CYC	C2A-C3A	4.90	1.47	1.36
11	K2	201	CYC	C2A-C3A	4.90	1.47	1.36
11	A2	301	CYC	C2A-C3A	4.89	1.47	1.36
11	P6	202	CYC	CHA-C1A	4.88	1.39	1.35
11	X6	201	CYC	C2A-C3A	4.88	1.47	1.36
11	N2	302	CYC	C2A-C3A	4.88	1.47	1.36
11	F8	201	CYC	CHA-C1A	4.88	1.39	1.35
11	M2	201	CYC	C2A-C3A	4.87	1.47	1.36
11	P4	202	CYC	CHA-C1A	4.86	1.39	1.35
11	M6	201	CYC	C2A-C3A	4.86	1.47	1.36
11	P2	202	CYC	CHA-C1A	4.86	1.39	1.35
11	E8	202	CYC	CHA-C1A	4.86	1.39	1.35
11	N6	301	CYC	C2A-C3A	4.86	1.47	1.36
11	N6	302	CYC	C2A-C3A	4.85	1.47	1.36
11	G6	201	CYC	CHA-C1A	4.85	1.39	1.35
11	G2	201	CYC	CHA-C1A	4.85	1.39	1.35
11	C2	201	CYC	C2A-C3A	4.84	1.47	1.36
11	N2	301	CYC	C2A-C3A	4.84	1.47	1.36
11	M6	202	CYC	CHA-C1A	4.83	1.39	1.35
11	Y6	201	CYC	C2A-C3A	4.83	1.47	1.36
11	B2	201	CYC	C2A-C3A	4.83	1.47	1.36
11	C6	203	CYC	C2A-C3A	4.82	1.47	1.36
11	C6	201	CYC	C2A-C3A	4.82	1.47	1.36
11	D2	201	CYC	C2A-C3A	4.82	1.47	1.36
11	B6	201	CYC	C2A-C3A	4.82	1.47	1.36
11	R6	202	CYC	C2A-C3A	4.82	1.47	1.36
11	F4	201	CYC	CHA-C1A	4.82	1.39	1.35
11	X2	203	CYC	C2A-C3A	4.82	1.47	1.36
11	H6	201	CYC	C2A-C3A	4.81	1.47	1.36
11	T6	201	CYC	CHA-C1A	4.80	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	S2	201	CYC	C2A-C3A	4.80	1.46	1.36
11	Q2	201	CYC	C2A-C3A	4.80	1.46	1.36
11	Q6	201	CYC	C2A-C3A	4.80	1.46	1.36
11	L6	201	CYC	C2A-C3A	4.79	1.46	1.36
11	T2	201	CYC	C2A-C3A	4.79	1.46	1.36
11	K2	203	CYC	C2A-C3A	4.79	1.46	1.36
11	W2	201	CYC	C2A-C3A	4.79	1.46	1.36
11	Z6	202	CYC	CHA-C1A	4.79	1.39	1.35
11	E2	203	CYC	C2A-C3A	4.78	1.46	1.36
11	L8	202	CYC	CHA-C1A	4.78	1.39	1.35
11	Z2	201	CYC	C2A-C3A	4.77	1.46	1.36
11	L7	1001	CYC	CHB-C1B	4.77	1.49	1.38
11	C7	1001	CYC	CHB-C1B	4.77	1.49	1.38
11	E7	1001	CYC	CHB-C1B	4.77	1.49	1.38
11	W6	201	CYC	C2A-C3A	4.77	1.46	1.36
11	H2	201	CYC	C2A-C3A	4.77	1.46	1.36
11	Z2	203	CYC	CHA-C1A	4.77	1.39	1.35
11	T8	202	CYC	CHA-C1A	4.76	1.39	1.35
11	M2	202	CYC	CHA-C1A	4.76	1.39	1.35
11	A7	1001	CYC	CHB-C1B	4.76	1.49	1.38
11	Z4	202	CYC	CHA-C1A	4.76	1.39	1.35
11	U6	201	CYC	C2A-C3A	4.76	1.46	1.36
11	I2	203	CYC	C2A-C3A	4.76	1.46	1.36
11	F6	201	CYC	C2A-C3A	4.76	1.46	1.36
11	O6	201	CYC	C2A-C3A	4.76	1.46	1.36
11	Z8	202	CYC	CHA-C1A	4.76	1.39	1.35
11	X7	1001	CYC	CHB-C1B	4.76	1.49	1.38
11	S7	1001	CYC	CHB-C1B	4.75	1.49	1.38
11	O7	1001	CYC	CHB-C1B	4.75	1.49	1.38
11	K2	202	CYC	CHA-C1A	4.75	1.39	1.35
11	J6	201	CYC	C2A-C3A	4.75	1.46	1.36
11	J7	1001	CYC	CHB-C1B	4.75	1.49	1.38
11	T4	202	CYC	CHA-C1A	4.74	1.39	1.35
11	X6	202	CYC	CHA-C1A	4.74	1.39	1.35
11	H7	1001	CYC	CHB-C1B	4.74	1.49	1.38
11	Q7	1001	CYC	CHB-C1B	4.74	1.49	1.38
11	T2	202	CYC	CHA-C1A	4.74	1.39	1.35
11	X2	202	CYC	CHA-C1A	4.74	1.39	1.35
11	Z7	1001	CYC	CHB-C1B	4.74	1.49	1.38
11	L4	202	CYC	CHA-C1A	4.73	1.39	1.35
11	V7	1001	CYC	CHB-C1B	4.72	1.49	1.38
11	Q3	1001	CYC	CHB-C1B	4.71	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	K6	202	CYC	CHA-C1A	4.70	1.39	1.35
11	g3	1001	CYC	CHB-C1B	4.67	1.49	1.38
11	X8	202	CYC	CHA-C1A	4.66	1.39	1.35
11	K8	202	CYC	CHA-C1A	4.63	1.39	1.35
11	K4	202	CYC	CHA-C1A	4.60	1.39	1.35
11	R7	1001	CYC	CHB-C1B	4.59	1.48	1.38
11	K7	1001	CYC	CHB-C1B	4.59	1.48	1.38
11	M7	1001	CYC	CHB-C1B	4.58	1.48	1.38
11	Y7	1001	CYC	CHB-C1B	4.58	1.48	1.38
11	I5	201	CYC	CHB-C1B	4.58	1.48	1.38
11	I1	201	CYC	CHB-C1B	4.58	1.48	1.38
11	P7	1001	CYC	CHB-C1B	4.57	1.48	1.38
11	D7	1001	CYC	CHB-C1B	4.57	1.48	1.38
11	M5	201	CYC	CHB-C1B	4.57	1.48	1.38
11	X4	202	CYC	CHA-C1A	4.57	1.38	1.35
11	X1	201	CYC	CHB-C1B	4.57	1.48	1.38
11	I7	1001	CYC	CHB-C1B	4.56	1.48	1.38
11	T7	1001	CYC	CHB-C1B	4.56	1.48	1.38
11	C6	201	CYC	CHB-C1B	4.56	1.48	1.38
11	W7	1001	CYC	CHB-C1B	4.56	1.48	1.38
11	F7	1001	CYC	CHB-C1B	4.56	1.48	1.38
11	X5	202	CYC	CHB-C1B	4.56	1.48	1.38
11	I5	202	CYC	CHB-C1B	4.55	1.48	1.38
11	Z5	201	CYC	CHB-C1B	4.55	1.48	1.38
11	B7	1001	CYC	CHB-C1B	4.55	1.48	1.38
11	P2	201	CYC	CHB-C1B	4.55	1.48	1.38
11	K1	201	CYC	CHB-C1B	4.55	1.48	1.38
11	C2	201	CYC	CHB-C1B	4.54	1.48	1.38
11	A1	302	CYC	CHB-C1B	4.54	1.48	1.38
11	X1	202	CYC	CHB-C1B	4.54	1.48	1.38
11	M1	201	CYC	CHB-C1B	4.54	1.48	1.38
11	Z6	201	CYC	CHB-C1B	4.54	1.48	1.38
11	T5	201	CYC	CHB-C1B	4.54	1.48	1.38
11	X5	201	CYC	CHB-C1B	4.54	1.48	1.38
11	A6	301	CYC	CHB-C1B	4.54	1.48	1.38
11	I6	201	CYC	CHB-C1B	4.54	1.48	1.38
11	Z1	201	CYC	CHB-C1B	4.54	1.48	1.38
11	Z2	202	CYC	CHB-C1B	4.54	1.48	1.38
11	A5	302	CYC	CHB-C1B	4.54	1.48	1.38
11	K1	202	CYC	CHB-C1B	4.54	1.48	1.38
11	N2	302	CYC	CHB-C1B	4.54	1.48	1.38
11	C5	201	CYC	CHB-C1B	4.54	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	K5	201	CYC	CHB-C1B	4.54	1.48	1.38
11	M6	201	CYC	CHB-C1B	4.53	1.48	1.38
11	P6	201	CYC	CHB-C1B	4.53	1.48	1.38
11	K5	202	CYC	CHB-C1B	4.53	1.48	1.38
11	I1	202	CYC	CHB-C1B	4.53	1.48	1.38
11	D1	201	CYC	CHB-C1B	4.53	1.48	1.38
11	T1	201	CYC	CHB-C1B	4.53	1.48	1.38
11	V2	201	CYC	CHB-C1B	4.53	1.48	1.38
11	P1	202	CYC	CHB-C1B	4.53	1.48	1.38
11	a7	1001	CYC	CHB-C1B	4.53	1.48	1.38
11	X6	201	CYC	CHB-C1B	4.53	1.48	1.38
11	A1	301	CYC	CHB-C1B	4.53	1.48	1.38
11	U1	202	CYC	CHB-C1B	4.53	1.48	1.38
11	I2	201	CYC	CHB-C1B	4.53	1.48	1.38
11	N1	301	CYC	CHB-C1B	4.52	1.48	1.38
11	J3	201	CYC	CHB-C1B	4.52	1.48	1.38
11	K6	201	CYC	CHB-C1B	4.52	1.48	1.38
11	V1	201	CYC	CHB-C1B	4.52	1.48	1.38
11	X2	201	CYC	CHB-C1B	4.52	1.48	1.38
11	R1	201	CYC	CHB-C1B	4.52	1.48	1.38
11	M2	201	CYC	CHB-C1B	4.52	1.48	1.38
11	M5	202	CYC	CHB-C1B	4.52	1.48	1.38
11	N5	301	CYC	CHB-C1B	4.52	1.48	1.38
11	N6	302	CYC	CHB-C1B	4.52	1.48	1.38
11	U5	202	CYC	CHB-C1B	4.52	1.48	1.38
11	G1	201	CYC	CHB-C1B	4.52	1.48	1.38
11	M1	202	CYC	CHB-C1B	4.52	1.48	1.38
11	A2	301	CYC	CHB-C1B	4.52	1.48	1.38
11	C1	201	CYC	CHB-C1B	4.52	1.48	1.38
11	P1	201	CYC	CHB-C1B	4.52	1.48	1.38
11	K2	201	CYC	CHB-C1B	4.52	1.48	1.38
11	E2	201	CYC	CHB-C1B	4.51	1.48	1.38
11	t3	1001	CYC	CHB-C1B	4.51	1.48	1.38
11	V5	201	CYC	CHB-C1B	4.51	1.48	1.38
11	D5	201	CYC	CHB-C1B	4.51	1.48	1.38
11	R1	202	CYC	CHB-C1B	4.51	1.48	1.38
11	R5	202	CYC	CHB-C1B	4.51	1.48	1.38
11	R5	201	CYC	CHB-C1B	4.51	1.48	1.38
11	Z1	202	CYC	CHB-C1B	4.51	1.48	1.38
11	G5	201	CYC	CHB-C1B	4.50	1.48	1.38
11	P5	201	CYC	CHB-C1B	4.50	1.48	1.38
11	N6	301	CYC	CHB-C1B	4.50	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	W4	201	CYC	CHB-C1B	4.50	1.48	1.38
11	V6	201	CYC	CHB-C1B	4.50	1.48	1.38
11	A5	301	CYC	CHB-C1B	4.50	1.48	1.38
11	P5	202	CYC	CHB-C1B	4.50	1.48	1.38
11	G1	202	CYC	CHB-C1B	4.50	1.48	1.38
11	x3	1001	CYC	CHB-C1B	4.50	1.48	1.38
11	E6	201	CYC	CHB-C1B	4.50	1.48	1.38
11	n3	1001	CYC	CHB-C1B	4.49	1.48	1.38
11	N2	301	CYC	CHB-C1B	4.49	1.48	1.38
11	Z5	202	CYC	CHB-C1B	4.49	1.48	1.38
11	G5	202	CYC	CHB-C1B	4.49	1.48	1.38
11	r3	1001	CYC	CHB-C1B	4.49	1.48	1.38
11	H3	1001	CYC	CHB-C1B	4.49	1.48	1.38
11	W3	1001	CYC	CHB-C1B	4.48	1.48	1.38
11	l3	1001	CYC	CHB-C1B	4.48	1.48	1.38
11	v3	1001	CYC	CHB-C1B	4.48	1.48	1.38
11	M3	201	CYC	CHB-C1B	4.48	1.48	1.38
11	M4	201	CYC	CHB-C1B	4.48	1.48	1.38
11	13	902	CYC	CHB-C1B	4.48	1.48	1.38
11	S3	1001	CYC	CHB-C1B	4.47	1.48	1.38
11	j3	1001	CYC	CHB-C1B	4.47	1.48	1.38
11	W8	201	CYC	CHB-C1B	4.47	1.48	1.38
11	Y4	201	CYC	CHB-C1B	4.47	1.48	1.38
11	13	904	CYC	CHB-C1B	4.47	1.48	1.38
11	c3	1001	CYC	CHB-C1B	4.47	1.48	1.38
11	P8	203	CYC	CHB-C1B	4.47	1.48	1.38
11	13	903	CYC	CHB-C1B	4.47	1.48	1.38
11	U8	201	CYC	CHB-C1B	4.47	1.48	1.38
11	M8	201	CYC	CHB-C1B	4.47	1.48	1.38
11	U3	1001	CYC	CHB-C1B	4.47	1.48	1.38
11	L8	201	CYC	CHB-C1B	4.46	1.48	1.38
11	L4	201	CYC	CHB-C1B	4.46	1.48	1.38
11	S8	201	CYC	CHB-C1B	4.46	1.48	1.38
11	03	902	CYC	CHB-C1B	4.46	1.48	1.38
11	O3	1001	CYC	CHB-C1B	4.46	1.48	1.38
11	E8	203	CYC	CHB-C1B	4.46	1.48	1.38
11	e3	1001	CYC	CHB-C1B	4.45	1.48	1.38
11	z3	1001	CYC	CHB-C1B	4.45	1.48	1.38
11	G8	201	CYC	CHB-C1B	4.45	1.48	1.38
11	P4	203	CYC	CHB-C1B	4.45	1.48	1.38
11	p3	1001	CYC	CHB-C1B	4.45	1.48	1.38
11	G4	201	CYC	CHB-C1B	4.45	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	S4	201	CYC	CHB-C1B	4.45	1.48	1.38
11	D8	201	CYC	CHB-C1B	4.45	1.48	1.38
11	I8	203	CYC	CHB-C1B	4.45	1.48	1.38
11	E4	203	CYC	CHB-C1B	4.45	1.48	1.38
11	Y8	201	CYC	CHB-C1B	4.45	1.48	1.38
11	Q6	201	CYC	CHB-C1B	4.45	1.48	1.38
11	I4	203	CYC	CHB-C1B	4.44	1.48	1.38
11	U4	201	CYC	CHB-C1B	4.44	1.48	1.38
11	O4	201	CYC	CHB-C1B	4.44	1.48	1.38
11	L6	201	CYC	CHB-C1B	4.44	1.48	1.38
11	J6	201	CYC	CHB-C1B	4.44	1.48	1.38
11	O8	201	CYC	CHB-C1B	4.43	1.48	1.38
11	Q2	201	CYC	CHB-C1B	4.43	1.48	1.38
11	I2	203	CYC	CHB-C1B	4.42	1.48	1.38
11	D4	201	CYC	CHB-C1B	4.42	1.48	1.38
11	B2	201	CYC	CHB-C1B	4.42	1.48	1.38
11	V3	201	CYC	CHB-C1B	4.42	1.48	1.38
11	B6	201	CYC	CHB-C1B	4.42	1.48	1.38
11	N6	302	CYC	C1C-NC	-4.42	1.31	1.37
11	F6	201	CYC	CHB-C1B	4.41	1.48	1.38
11	H2	201	CYC	CHB-C1B	4.41	1.48	1.38
11	X6	201	CYC	C1C-NC	-4.41	1.31	1.37
11	H6	201	CYC	CHB-C1B	4.41	1.48	1.38
11	N2	302	CYC	C1C-NC	-4.41	1.31	1.37
11	K2	203	CYC	CHB-C1B	4.41	1.48	1.38
11	C6	203	CYC	CHB-C1B	4.40	1.48	1.38
11	U6	201	CYC	CHB-C1B	4.40	1.48	1.38
11	E2	203	CYC	CHB-C1B	4.40	1.48	1.38
11	W6	201	CYC	CHB-C1B	4.40	1.48	1.38
11	D2	201	CYC	CHB-C1B	4.40	1.48	1.38
11	R6	202	CYC	CHB-C1B	4.40	1.48	1.38
11	X2	203	CYC	CHB-C1B	4.40	1.48	1.38
11	W2	201	CYC	CHB-C1B	4.39	1.48	1.38
11	S2	201	CYC	CHB-C1B	4.39	1.48	1.38
11	Y6	201	CYC	CHB-C1B	4.39	1.48	1.38
11	m3	201	CYC	CHB-C1B	4.39	1.48	1.38
11	Z2	201	CYC	CHB-C1B	4.38	1.48	1.38
11	V6	201	CYC	C1C-NC	-4.38	1.31	1.37
11	V2	201	CYC	C1C-NC	-4.38	1.31	1.37
11	O6	201	CYC	CHB-C1B	4.37	1.48	1.38
11	T2	201	CYC	CHB-C1B	4.37	1.48	1.38
11	X2	201	CYC	C1C-NC	-4.37	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	w3	1001	CYC	CHB-C1B	4.37	1.48	1.38
11	G3	1001	CYC	CHB-C1B	4.37	1.48	1.38
11	M6	201	CYC	C1C-NC	-4.36	1.32	1.37
11	X3	1001	CYC	CHB-C1B	4.36	1.48	1.38
11	I3	1001	CYC	CHB-C1B	4.35	1.48	1.38
11	f3	1001	CYC	CHB-C1B	4.35	1.48	1.38
11	T3	1001	CYC	CHB-C1B	4.35	1.48	1.38
11	N3	1001	CYC	CHB-C1B	4.34	1.48	1.38
11	u3	1001	CYC	CHB-C1B	4.34	1.48	1.38
11	P3	1001	CYC	CHB-C1B	4.34	1.48	1.38
11	y3	1001	CYC	CHB-C1B	4.34	1.48	1.38
11	N2	301	CYC	C1C-NC	-4.34	1.32	1.37
11	s3	1001	CYC	CHB-C1B	4.34	1.48	1.38
11	K2	201	CYC	C1C-NC	-4.33	1.32	1.37
11	N6	301	CYC	C1C-NC	-4.33	1.32	1.37
11	R3	1001	CYC	CHB-C1B	4.33	1.48	1.38
11	M2	201	CYC	C1C-NC	-4.33	1.32	1.37
11	d3	1001	CYC	CHB-C1B	4.33	1.48	1.38
11	q3	1001	CYC	CHB-C1B	4.33	1.48	1.38
11	Z3	1001	CYC	CHB-C1B	4.33	1.48	1.38
11	o3	1001	CYC	CHB-C1B	4.32	1.48	1.38
11	K3	1001	CYC	CHB-C1B	4.32	1.48	1.38
11	C6	201	CYC	C1C-NC	-4.32	1.32	1.37
11	k3	1001	CYC	CHB-C1B	4.32	1.48	1.38
11	Z2	202	CYC	C1C-NC	-4.32	1.32	1.37
11	A4	301	CYC	C1C-NC	-4.31	1.32	1.37
11	Z6	201	CYC	C1C-NC	-4.31	1.32	1.37
11	i3	1001	CYC	CHB-C1B	4.31	1.48	1.38
11	E2	201	CYC	C1C-NC	-4.31	1.32	1.37
11	b3	1001	CYC	CHB-C1B	4.31	1.48	1.38
11	P6	201	CYC	C1C-NC	-4.30	1.32	1.37
11	P2	201	CYC	C1C-NC	-4.29	1.32	1.37
11	I2	201	CYC	C1C-NC	-4.29	1.32	1.37
11	K6	201	CYC	C1C-NC	-4.29	1.32	1.37
11	A2	301	CYC	C1C-NC	-4.29	1.32	1.37
11	I6	201	CYC	C1C-NC	-4.29	1.32	1.37
11	A8	301	CYC	C1C-NC	-4.29	1.32	1.37
11	K4	201	CYC	C1C-NC	-4.28	1.32	1.37
11	X8	201	CYC	C1C-NC	-4.28	1.32	1.37
11	K8	201	CYC	C1C-NC	-4.28	1.32	1.37
11	X1	202	CYC	C2A-C3A	4.28	1.45	1.36
11	U5	202	CYC	C2A-C3A	4.28	1.45	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	C2	201	CYC	C1C-NC	-4.28	1.32	1.37
11	I4	201	CYC	C1C-NC	-4.27	1.32	1.37
11	I8	201	CYC	C1C-NC	-4.27	1.32	1.37
11	E6	201	CYC	C1C-NC	-4.27	1.32	1.37
11	A6	301	CYC	C1C-NC	-4.27	1.32	1.37
11	G1	202	CYC	C2A-C3A	4.27	1.45	1.36
11	P1	202	CYC	C2A-C3A	4.27	1.45	1.36
11	X5	202	CYC	C2A-C3A	4.27	1.45	1.36
11	R1	202	CYC	C2A-C3A	4.27	1.45	1.36
11	P5	202	CYC	C2A-C3A	4.27	1.45	1.36
11	I5	202	CYC	C2A-C3A	4.26	1.45	1.36
11	I1	202	CYC	C2A-C3A	4.26	1.45	1.36
11	M1	202	CYC	C2A-C3A	4.26	1.45	1.36
11	P4	201	CYC	C1C-NC	-4.26	1.32	1.37
11	N4	301	CYC	C1C-NC	-4.26	1.32	1.37
11	G5	202	CYC	C2A-C3A	4.25	1.45	1.36
11	P8	201	CYC	C1C-NC	-4.25	1.32	1.37
11	M5	202	CYC	C2A-C3A	4.25	1.45	1.36
11	R5	202	CYC	C2A-C3A	4.25	1.45	1.36
11	K5	202	CYC	C2A-C3A	4.25	1.45	1.36
11	T5	201	CYC	C2A-C3A	4.24	1.45	1.36
11	K1	202	CYC	C2A-C3A	4.24	1.45	1.36
11	T1	201	CYC	C2A-C3A	4.24	1.45	1.36
11	X4	201	CYC	C1C-NC	-4.23	1.32	1.37
11	U1	202	CYC	C2A-C3A	4.23	1.45	1.36
11	C1	201	CYC	C2A-C3A	4.23	1.45	1.36
11	C5	201	CYC	C2A-C3A	4.23	1.45	1.36
11	E4	201	CYC	C1C-NC	-4.23	1.32	1.37
11	D1	201	CYC	C2A-C3A	4.22	1.45	1.36
11	E8	201	CYC	C1C-NC	-4.22	1.32	1.37
11	G8	202	CYC	C1C-NC	-4.22	1.32	1.37
11	Z4	201	CYC	C1C-NC	-4.22	1.32	1.37
11	V8	201	CYC	C1C-NC	-4.22	1.32	1.37
11	Z5	202	CYC	C2A-C3A	4.22	1.45	1.36
11	Z1	202	CYC	C2A-C3A	4.22	1.45	1.36
11	Z8	201	CYC	C1C-NC	-4.21	1.32	1.37
11	N8	301	CYC	C1C-NC	-4.21	1.32	1.37
11	V4	201	CYC	C1C-NC	-4.21	1.32	1.37
11	X5	203	CYC	CHB-C4A	4.20	1.50	1.40
11	H1	201	CYC	CHB-C4A	4.20	1.50	1.40
11	G4	202	CYC	C1C-NC	-4.20	1.32	1.37
11	H5	201	CYC	CHB-C4A	4.20	1.50	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	T8	201	CYC	C1C-NC	-4.19	1.32	1.37
11	D5	201	CYC	C2A-C3A	4.19	1.45	1.36
11	T4	201	CYC	C1C-NC	-4.19	1.32	1.37
11	M8	202	CYC	C1C-NC	-4.19	1.32	1.37
11	C5	202	CYC	CHB-C4A	4.19	1.50	1.40
11	M4	202	CYC	C1C-NC	-4.19	1.32	1.37
11	L5	201	CYC	CHB-C4A	4.18	1.50	1.40
11	X3	1001	CYC	C1C-NC	-4.17	1.32	1.37
11	S5	201	CYC	CHB-C4A	4.17	1.50	1.40
11	X1	203	CYC	CHB-C4A	4.17	1.50	1.40
11	U1	201	CYC	CHB-C4A	4.17	1.50	1.40
11	Q1	201	CYC	CHB-C4A	4.17	1.50	1.40
11	B6	201	CYC	C1C-NC	-4.17	1.32	1.37
11	F1	201	CYC	CHB-C4A	4.17	1.50	1.40
11	U5	201	CYC	CHB-C4A	4.17	1.50	1.40
11	S1	201	CYC	CHB-C4A	4.17	1.50	1.40
11	Q5	201	CYC	CHB-C4A	4.17	1.50	1.40
11	C1	202	CYC	CHB-C4A	4.16	1.50	1.40
11	O1	201	CYC	CHB-C4A	4.16	1.50	1.40
11	L1	201	CYC	CHB-C4A	4.16	1.50	1.40
11	J5	201	CYC	CHB-C4A	4.16	1.50	1.40
11	O5	201	CYC	CHB-C4A	4.15	1.50	1.40
11	J1	201	CYC	CHB-C4A	4.15	1.50	1.40
11	V1	202	CYC	CHB-C4A	4.15	1.50	1.40
11	F5	201	CYC	CHB-C4A	4.14	1.50	1.40
11	B5	201	CYC	CHB-C4A	4.14	1.50	1.40
11	b3	1001	CYC	C1C-NC	-4.14	1.32	1.37
11	J6	201	CYC	C1C-NC	-4.14	1.32	1.37
11	B1	201	CYC	CHB-C4A	4.13	1.50	1.40
11	f3	1001	CYC	C1C-NC	-4.13	1.32	1.37
11	B2	201	CYC	C1C-NC	-4.13	1.32	1.37
11	Q2	201	CYC	C1C-NC	-4.13	1.32	1.37
11	R6	202	CYC	C1C-NC	-4.13	1.32	1.37
11	13	901	CYC	CHB-C1B	4.13	1.47	1.38
11	V5	202	CYC	CHB-C4A	4.13	1.50	1.40
11	E2	203	CYC	C1C-NC	-4.12	1.32	1.37
11	Y6	201	CYC	C1C-NC	-4.12	1.32	1.37
11	d3	1001	CYC	C1C-NC	-4.12	1.32	1.37
11	H6	201	CYC	C1C-NC	-4.12	1.32	1.37
11	T2	201	CYC	C1C-NC	-4.12	1.32	1.37
11	S2	201	CYC	C1C-NC	-4.12	1.32	1.37
11	03	901	CYC	CHB-C1B	4.11	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	I2	203	CYC	C1C-NC	-4.10	1.32	1.37
11	K3	1001	CYC	C1C-NC	-4.10	1.32	1.37
11	u3	1001	CYC	C1C-NC	-4.10	1.32	1.37
11	F6	201	CYC	C1C-NC	-4.10	1.32	1.37
11	X2	203	CYC	C1C-NC	-4.10	1.32	1.37
11	W6	201	CYC	C1C-NC	-4.10	1.32	1.37
11	O6	201	CYC	C1C-NC	-4.09	1.32	1.37
11	H2	201	CYC	C1C-NC	-4.09	1.32	1.37
11	R3	1001	CYC	C1C-NC	-4.09	1.32	1.37
11	Z2	201	CYC	C1C-NC	-4.09	1.32	1.37
11	W2	201	CYC	C1C-NC	-4.09	1.32	1.37
11	Z3	1001	CYC	C1C-NC	-4.09	1.32	1.37
11	q3	1001	CYC	C1C-NC	-4.07	1.32	1.37
11	P3	1001	CYC	C1C-NC	-4.07	1.32	1.37
11	I3	1001	CYC	C1C-NC	-4.06	1.32	1.37
11	Q6	201	CYC	C1C-NC	-4.06	1.32	1.37
11	K2	203	CYC	C1C-NC	-4.06	1.32	1.37
11	C6	203	CYC	C1C-NC	-4.06	1.32	1.37
11	U6	201	CYC	C1C-NC	-4.06	1.32	1.37
11	y3	1001	CYC	C1C-NC	-4.05	1.32	1.37
11	T3	1001	CYC	C1C-NC	-4.05	1.32	1.37
11	w3	1001	CYC	C1C-NC	-4.05	1.32	1.37
11	N3	1001	CYC	C1C-NC	-4.05	1.32	1.37
11	i3	1001	CYC	C1C-NC	-4.04	1.32	1.37
11	D2	201	CYC	C1C-NC	-4.04	1.32	1.37
11	o3	1001	CYC	C1C-NC	-4.04	1.32	1.37
11	k3	1001	CYC	C1C-NC	-4.03	1.32	1.37
11	s3	1001	CYC	C1C-NC	-4.03	1.32	1.37
11	G4	202	CYC	CHB-C1B	4.03	1.47	1.38
11	G3	1001	CYC	C1C-NC	-4.03	1.32	1.37
11	A4	301	CYC	CHB-C1B	4.01	1.47	1.38
11	G8	202	CYC	CHB-C1B	4.01	1.47	1.38
11	M4	202	CYC	CHB-C1B	4.01	1.47	1.38
11	M8	202	CYC	CHB-C1B	4.01	1.47	1.38
11	V8	201	CYC	CHB-C1B	4.00	1.47	1.38
11	L6	201	CYC	C1C-NC	-4.00	1.32	1.37
11	K4	201	CYC	CHB-C1B	4.00	1.47	1.38
11	T8	201	CYC	CHB-C1B	4.00	1.47	1.38
11	N4	301	CYC	CHB-C1B	4.00	1.47	1.38
11	X4	201	CYC	CHB-C1B	4.00	1.47	1.38
11	V4	201	CYC	CHB-C1B	3.99	1.47	1.38
11	N8	301	CYC	CHB-C1B	3.99	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	E4	201	CYC	CHB-C1B	3.99	1.47	1.38
11	T4	201	CYC	CHB-C1B	3.99	1.47	1.38
11	Z4	201	CYC	CHB-C1B	3.99	1.47	1.38
11	E8	201	CYC	CHB-C1B	3.98	1.47	1.38
11	I8	201	CYC	CHB-C1B	3.98	1.47	1.38
11	K8	201	CYC	CHB-C1B	3.98	1.47	1.38
11	Z8	201	CYC	CHB-C1B	3.98	1.47	1.38
11	A8	301	CYC	CHB-C1B	3.98	1.47	1.38
11	P8	201	CYC	CHB-C1B	3.98	1.47	1.38
11	X8	201	CYC	CHB-C1B	3.97	1.47	1.38
11	I4	201	CYC	CHB-C1B	3.96	1.47	1.38
11	P4	201	CYC	CHB-C1B	3.96	1.47	1.38
11	g3	1001	CYC	CHB-C4A	3.95	1.49	1.40
11	U3	1001	CYC	C1C-NC	-3.94	1.32	1.37
11	Q3	1001	CYC	CHB-C4A	3.94	1.49	1.40
11	V7	1001	CYC	CHB-C4A	3.93	1.49	1.40
11	A7	1001	CYC	CHB-C4A	3.92	1.49	1.40
11	X7	1001	CYC	CHB-C4A	3.92	1.49	1.40
11	S7	1001	CYC	CHB-C4A	3.92	1.49	1.40
11	Q7	1001	CYC	CHB-C4A	3.92	1.49	1.40
11	H7	1001	CYC	CHB-C4A	3.92	1.49	1.40
11	L7	1001	CYC	CHB-C4A	3.92	1.49	1.40
11	C7	1001	CYC	CHB-C4A	3.91	1.49	1.40
11	E7	1001	CYC	CHB-C4A	3.91	1.49	1.40
11	Z7	1001	CYC	CHB-C4A	3.91	1.49	1.40
11	J7	1001	CYC	CHB-C4A	3.90	1.49	1.40
11	13	902	CYC	C1C-NC	-3.89	1.32	1.37
11	O7	1001	CYC	CHB-C4A	3.89	1.49	1.40
11	M4	201	CYC	C1C-NC	-3.88	1.32	1.37
11	x3	1001	CYC	C1C-NC	-3.88	1.32	1.37
11	M3	201	CYC	C1C-NC	-3.87	1.32	1.37
11	D4	201	CYC	C1C-NC	-3.87	1.32	1.37
11	O3	1001	CYC	C1C-NC	-3.86	1.32	1.37
11	U8	201	CYC	C1C-NC	-3.86	1.32	1.37
11	e3	1001	CYC	C1C-NC	-3.86	1.32	1.37
11	R5	201	CYC	CHB-C4A	3.86	1.49	1.40
11	l3	1001	CYC	C1C-NC	-3.86	1.32	1.37
11	U4	201	CYC	C1C-NC	-3.86	1.32	1.37
11	S3	1001	CYC	C1C-NC	-3.86	1.32	1.37
11	t3	1001	CYC	C1C-NC	-3.85	1.32	1.37
11	G8	201	CYC	C1C-NC	-3.85	1.32	1.37
11	g3	1001	CYC	C1C-NC	-3.85	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	p3	1001	CYC	C1C-NC	-3.85	1.32	1.37
11	Y8	201	CYC	C1C-NC	-3.85	1.32	1.37
11	13	904	CYC	C1C-NC	-3.85	1.32	1.37
11	G4	201	CYC	C1C-NC	-3.85	1.32	1.37
11	M8	201	CYC	C1C-NC	-3.85	1.32	1.37
11	j3	1001	CYC	C1C-NC	-3.85	1.32	1.37
11	I4	203	CYC	C1C-NC	-3.84	1.32	1.37
11	O4	201	CYC	C1C-NC	-3.84	1.32	1.37
11	K5	201	CYC	CHB-C4A	3.84	1.49	1.40
11	L4	201	CYC	C1C-NC	-3.84	1.32	1.37
11	n3	1001	CYC	C1C-NC	-3.84	1.32	1.37
11	Y4	201	CYC	C1C-NC	-3.83	1.32	1.37
11	R1	201	CYC	CHB-C4A	3.83	1.49	1.40
11	J3	201	CYC	C1C-NC	-3.83	1.32	1.37
11	G5	201	CYC	CHB-C4A	3.83	1.49	1.40
11	v3	1001	CYC	C1C-NC	-3.83	1.32	1.37
11	O8	201	CYC	C1C-NC	-3.83	1.32	1.37
11	I8	203	CYC	C1C-NC	-3.83	1.32	1.37
11	r3	1001	CYC	C1C-NC	-3.83	1.32	1.37
11	L8	201	CYC	C1C-NC	-3.83	1.32	1.37
11	G1	201	CYC	CHB-C4A	3.83	1.49	1.40
11	N5	301	CYC	CHB-C4A	3.83	1.49	1.40
11	A1	301	CYC	CHB-C4A	3.83	1.49	1.40
11	X5	201	CYC	CHB-C4A	3.83	1.49	1.40
11	13	903	CYC	C1C-NC	-3.83	1.32	1.37
11	D8	201	CYC	C1C-NC	-3.83	1.32	1.37
11	W8	201	CYC	C1C-NC	-3.83	1.32	1.37
11	03	902	CYC	CHB-C4A	3.82	1.49	1.40
11	A5	301	CYC	CHB-C4A	3.82	1.49	1.40
11	p3	1001	CYC	CHB-C4A	3.82	1.49	1.40
11	z3	1001	CYC	C1C-NC	-3.82	1.32	1.37
11	A5	302	CYC	CHB-C4A	3.82	1.49	1.40
11	P1	201	CYC	CHB-C4A	3.82	1.49	1.40
11	E8	203	CYC	C1C-NC	-3.82	1.32	1.37
11	K1	201	CYC	CHB-C4A	3.81	1.49	1.40
11	03	902	CYC	C1C-NC	-3.81	1.32	1.37
11	V1	201	CYC	CHB-C4A	3.81	1.49	1.40
11	M5	201	CYC	CHB-C4A	3.81	1.49	1.40
11	V5	201	CYC	CHB-C4A	3.81	1.49	1.40
11	N1	301	CYC	CHB-C4A	3.81	1.49	1.40
11	I5	201	CYC	CHB-C4A	3.81	1.49	1.40
11	A1	302	CYC	CHB-C4A	3.81	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	Z1	201	CYC	CHB-C4A	3.81	1.49	1.40
11	E4	203	CYC	C1C-NC	-3.81	1.32	1.37
11	I1	201	CYC	CHB-C4A	3.81	1.49	1.40
11	S3	1001	CYC	CHB-C4A	3.81	1.49	1.40
11	M1	201	CYC	CHB-C4A	3.80	1.49	1.40
11	X1	201	CYC	CHB-C4A	3.80	1.49	1.40
11	P5	201	CYC	CHB-C4A	3.80	1.49	1.40
11	Z5	201	CYC	CHB-C4A	3.80	1.49	1.40
11	H3	1001	CYC	C1C-NC	-3.80	1.32	1.37
11	M3	201	CYC	CHB-C4A	3.80	1.49	1.40
11	z3	1001	CYC	CHB-C4A	3.80	1.49	1.40
11	W4	201	CYC	C1C-NC	-3.80	1.32	1.37
11	13	903	CYC	CHB-C4A	3.80	1.49	1.40
11	13	904	CYC	CHB-C4A	3.79	1.49	1.40
11	13	902	CYC	CHB-C4A	3.79	1.49	1.40
11	c3	1001	CYC	C1C-NC	-3.79	1.32	1.37
11	j3	1001	CYC	CHB-C4A	3.79	1.49	1.40
11	e3	1001	CYC	CHB-C4A	3.79	1.49	1.40
11	l3	1001	CYC	CHB-C4A	3.79	1.49	1.40
11	A6	301	CYC	CHB-C4A	3.79	1.49	1.40
11	c3	1001	CYC	CHB-C4A	3.79	1.49	1.40
11	P8	203	CYC	C1C-NC	-3.79	1.32	1.37
11	W3	1001	CYC	CHB-C4A	3.78	1.49	1.40
11	O3	1001	CYC	CHB-C4A	3.78	1.49	1.40
11	n3	1001	CYC	CHB-C4A	3.78	1.49	1.40
11	x3	1001	CYC	CHB-C4A	3.78	1.49	1.40
11	W3	1001	CYC	C1C-NC	-3.78	1.32	1.37
11	N6	302	CYC	CHB-C4A	3.78	1.49	1.40
11	r3	1001	CYC	CHB-C4A	3.77	1.49	1.40
11	M2	201	CYC	CHB-C4A	3.77	1.49	1.40
11	S8	201	CYC	C1C-NC	-3.77	1.32	1.37
11	H3	1001	CYC	CHB-C4A	3.77	1.49	1.40
11	t3	1001	CYC	CHB-C4A	3.77	1.49	1.40
11	J3	201	CYC	CHB-C4A	3.77	1.49	1.40
11	Q3	1001	CYC	C1C-NC	-3.76	1.32	1.37
11	A2	301	CYC	CHB-C4A	3.76	1.49	1.40
11	U3	1001	CYC	CHB-C4A	3.76	1.49	1.40
11	v3	1001	CYC	CHB-C4A	3.76	1.49	1.40
11	M6	201	CYC	CHB-C4A	3.76	1.49	1.40
11	P4	203	CYC	C1C-NC	-3.76	1.32	1.37
11	K2	201	CYC	CHB-C4A	3.75	1.49	1.40
11	N2	302	CYC	CHB-C4A	3.75	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	I2	201	CYC	CHB-C4A	3.75	1.49	1.40
11	C6	201	CYC	CHB-C4A	3.75	1.49	1.40
11	P2	201	CYC	CHB-C4A	3.74	1.49	1.40
11	P6	201	CYC	CHB-C4A	3.74	1.49	1.40
11	E2	201	CYC	CHB-C4A	3.74	1.49	1.40
11	K6	201	CYC	CHB-C4A	3.74	1.49	1.40
11	A2	301	CYC	C2C-C1C	-3.74	1.48	1.52
11	G5	202	CYC	CHB-C4A	3.74	1.49	1.40
11	Z6	201	CYC	CHB-C4A	3.73	1.49	1.40
11	E6	201	CYC	CHB-C4A	3.73	1.49	1.40
11	C2	201	CYC	CHB-C4A	3.73	1.49	1.40
11	S4	201	CYC	C1C-NC	-3.72	1.32	1.37
11	N2	301	CYC	CHB-C4A	3.72	1.49	1.40
11	T7	1001	CYC	CHB-C4A	3.72	1.49	1.40
11	N6	301	CYC	CHB-C4A	3.72	1.49	1.40
11	I6	201	CYC	CHB-C4A	3.72	1.49	1.40
11	V6	201	CYC	CHB-C4A	3.72	1.49	1.40
11	W7	1001	CYC	CHB-C4A	3.71	1.49	1.40
11	Z2	202	CYC	CHB-C4A	3.71	1.49	1.40
11	X6	201	CYC	CHB-C4A	3.71	1.49	1.40
11	P7	1001	CYC	CHB-C4A	3.71	1.49	1.40
11	C2	201	CYC	C2C-C1C	-3.71	1.48	1.52
11	K1	202	CYC	CHB-C4A	3.71	1.49	1.40
11	X2	201	CYC	CHB-C4A	3.71	1.49	1.40
11	A6	301	CYC	C2C-C1C	-3.71	1.48	1.52
11	G1	202	CYC	CHB-C4A	3.71	1.49	1.40
11	D7	1001	CYC	CHB-C4A	3.71	1.49	1.40
11	C6	201	CYC	C2C-C1C	-3.71	1.48	1.52
11	M7	1001	CYC	CHB-C4A	3.70	1.49	1.40
11	V2	201	CYC	CHB-C4A	3.70	1.49	1.40
11	a7	1001	CYC	CHB-C4A	3.70	1.49	1.40
11	F7	1001	CYC	CHB-C4A	3.70	1.49	1.40
11	Y7	1001	CYC	CHB-C4A	3.70	1.49	1.40
11	C5	201	CYC	CHB-C4A	3.70	1.49	1.40
11	I1	202	CYC	CHB-C4A	3.69	1.49	1.40
11	R5	202	CYC	CHB-C4A	3.69	1.49	1.40
11	K7	1001	CYC	CHB-C4A	3.69	1.49	1.40
11	I6	201	CYC	C2C-C1C	-3.69	1.48	1.52
11	X1	202	CYC	CHB-C4A	3.69	1.49	1.40
11	K5	202	CYC	CHB-C4A	3.68	1.49	1.40
11	E6	201	CYC	C2C-C1C	-3.68	1.48	1.52
11	B7	1001	CYC	CHB-C4A	3.68	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	M2	201	CYC	C2C-C1C	-3.68	1.48	1.52
11	N6	301	CYC	C2C-C1C	-3.68	1.48	1.52
11	M6	201	CYC	C2C-C1C	-3.68	1.48	1.52
11	P5	202	CYC	CHB-C4A	3.68	1.49	1.40
11	C1	201	CYC	CHB-C4A	3.68	1.49	1.40
11	I2	201	CYC	C2C-C1C	-3.68	1.48	1.52
11	U1	202	CYC	CHB-C4A	3.68	1.49	1.40
11	U5	202	CYC	CHB-C4A	3.67	1.49	1.40
11	E2	201	CYC	C2C-C1C	-3.67	1.48	1.52
11	R1	202	CYC	CHB-C4A	3.67	1.49	1.40
11	I5	202	CYC	CHB-C4A	3.67	1.49	1.40
11	Z1	202	CYC	CHB-C4A	3.67	1.49	1.40
11	I7	1001	CYC	CHB-C4A	3.67	1.49	1.40
11	D5	201	CYC	CHB-C4A	3.67	1.49	1.40
11	D1	201	CYC	CHB-C4A	3.66	1.49	1.40
11	X5	202	CYC	CHB-C4A	3.66	1.49	1.40
11	Z5	202	CYC	CHB-C4A	3.66	1.49	1.40
11	P1	202	CYC	CHB-C4A	3.66	1.49	1.40
11	R7	1001	CYC	CHB-C4A	3.66	1.49	1.40
11	M5	202	CYC	CHB-C4A	3.66	1.49	1.40
11	K6	201	CYC	C2C-C1C	-3.66	1.48	1.52
11	T1	201	CYC	CHB-C4A	3.66	1.49	1.40
11	T5	201	CYC	CHB-C4A	3.66	1.49	1.40
11	N2	302	CYC	C2C-C1C	-3.65	1.48	1.52
11	V6	201	CYC	C2C-C1C	-3.64	1.48	1.52
11	M1	202	CYC	CHB-C4A	3.64	1.48	1.40
11	K2	201	CYC	C2C-C1C	-3.63	1.48	1.52
11	Z2	202	CYC	C2C-C1C	-3.63	1.48	1.52
11	m3	201	CYC	CHB-C4A	3.63	1.48	1.40
11	V3	201	CYC	CHB-C4A	3.62	1.48	1.40
11	N2	301	CYC	C2C-C1C	-3.62	1.48	1.52
11	N6	302	CYC	C2C-C1C	-3.62	1.48	1.52
11	V2	201	CYC	C2C-C1C	-3.61	1.48	1.52
11	P6	201	CYC	C2C-C1C	-3.60	1.48	1.52
11	P2	201	CYC	C2C-C1C	-3.60	1.48	1.52
11	X6	201	CYC	C2C-C1C	-3.59	1.48	1.52
11	X2	201	CYC	C2C-C1C	-3.59	1.48	1.52
11	k3	1001	CYC	CHB-C4A	3.57	1.48	1.40
11	Z6	201	CYC	C2C-C1C	-3.56	1.48	1.52
11	u3	1001	CYC	CHB-C4A	3.56	1.48	1.40
11	f3	1001	CYC	CHB-C4A	3.56	1.48	1.40
11	K3	1001	CYC	CHB-C4A	3.55	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	q3	1001	CYC	CHB-C4A	3.55	1.48	1.40
11	P5	202	CYC	C3D-C2D	3.54	1.48	1.37
11	C5	201	CYC	C3D-C2D	3.54	1.48	1.37
11	V3	201	CYC	C1C-NC	-3.54	1.33	1.37
11	I1	202	CYC	C3D-C2D	3.54	1.48	1.37
11	d3	1001	CYC	CHB-C4A	3.54	1.48	1.40
11	m3	201	CYC	C1C-NC	-3.54	1.33	1.37
11	G5	202	CYC	C3D-C2D	3.54	1.48	1.37
11	G1	202	CYC	C3D-C2D	3.54	1.48	1.37
11	b3	1001	CYC	CHB-C4A	3.54	1.48	1.40
11	T3	1001	CYC	CHB-C4A	3.54	1.48	1.40
11	P3	1001	CYC	CHB-C4A	3.54	1.48	1.40
11	w3	1001	CYC	CHB-C4A	3.54	1.48	1.40
11	D5	201	CYC	C3D-C2D	3.54	1.48	1.37
11	M5	202	CYC	C3D-C2D	3.54	1.48	1.37
11	Z3	1001	CYC	CHB-C4A	3.54	1.48	1.40
11	I5	202	CYC	C3D-C2D	3.54	1.48	1.37
11	T1	201	CYC	C3D-C2D	3.54	1.48	1.37
11	D1	201	CYC	C3D-C2D	3.53	1.48	1.37
11	y3	1001	CYC	CHB-C4A	3.53	1.48	1.40
11	P1	202	CYC	C3D-C2D	3.53	1.48	1.37
11	X3	1001	CYC	CHB-C4A	3.53	1.48	1.40
11	R5	202	CYC	C3D-C2D	3.53	1.48	1.37
11	N3	1001	CYC	CHB-C4A	3.53	1.48	1.40
11	i3	1001	CYC	CHB-C4A	3.53	1.48	1.40
11	C1	201	CYC	C3D-C2D	3.53	1.48	1.37
11	G3	1001	CYC	CHB-C4A	3.53	1.48	1.40
11	M1	202	CYC	C3D-C2D	3.53	1.48	1.37
11	U5	202	CYC	C3D-C2D	3.53	1.48	1.37
11	R3	1001	CYC	CHB-C4A	3.53	1.48	1.40
11	R1	202	CYC	C3D-C2D	3.52	1.48	1.37
11	o3	1001	CYC	CHB-C4A	3.52	1.48	1.40
11	Z5	202	CYC	C3D-C2D	3.52	1.48	1.37
11	I3	1001	CYC	CHB-C4A	3.52	1.48	1.40
11	T5	201	CYC	C3D-C2D	3.52	1.48	1.37
11	s3	1001	CYC	CHB-C4A	3.52	1.48	1.40
11	U1	202	CYC	C3D-C2D	3.52	1.48	1.37
11	Z1	202	CYC	C3D-C2D	3.52	1.48	1.37
11	K1	202	CYC	C3D-C2D	3.52	1.48	1.37
11	X1	202	CYC	C3D-C2D	3.52	1.48	1.37
11	K5	202	CYC	C3D-C2D	3.52	1.48	1.37
11	X5	202	CYC	C3D-C2D	3.51	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	03	901	CYC	CHB-C4A	3.51	1.48	1.40
11	13	901	CYC	CHB-C4A	3.49	1.48	1.40
11	I4	201	CYC	CHB-C4A	3.48	1.48	1.40
11	Z5	201	CYC	C2C-C1C	-3.47	1.49	1.52
11	M4	202	CYC	CHB-C4A	3.47	1.48	1.40
11	V4	201	CYC	CHB-C4A	3.46	1.48	1.40
11	V8	201	CYC	CHB-C4A	3.46	1.48	1.40
11	M8	202	CYC	CHB-C4A	3.45	1.48	1.40
11	K8	201	CYC	CHB-C4A	3.45	1.48	1.40
11	N4	301	CYC	CHB-C4A	3.45	1.48	1.40
11	I8	201	CYC	CHB-C4A	3.45	1.48	1.40
11	Z4	201	CYC	CHB-C4A	3.45	1.48	1.40
11	N8	301	CYC	CHB-C4A	3.44	1.48	1.40
11	P8	201	CYC	CHB-C4A	3.44	1.48	1.40
11	R6	202	CYC	CHB-C4A	3.44	1.48	1.40
11	T8	201	CYC	CHB-C4A	3.43	1.48	1.40
11	Z8	201	CYC	CHB-C4A	3.43	1.48	1.40
11	A8	301	CYC	CHB-C4A	3.43	1.48	1.40
11	E8	201	CYC	CHB-C4A	3.43	1.48	1.40
11	L7	1001	CYC	C1C-NC	-3.43	1.33	1.37
11	X8	201	CYC	CHB-C4A	3.43	1.48	1.40
11	P4	201	CYC	CHB-C4A	3.43	1.48	1.40
11	E7	1001	CYC	C1C-NC	-3.42	1.33	1.37
11	A1	301	CYC	C2C-C1C	-3.42	1.49	1.52
11	S7	1001	CYC	C1C-NC	-3.42	1.33	1.37
11	T4	201	CYC	CHB-C4A	3.42	1.48	1.40
11	G8	202	CYC	CHB-C4A	3.42	1.48	1.40
11	H7	1001	CYC	C1C-NC	-3.42	1.33	1.37
11	X4	201	CYC	CHB-C4A	3.42	1.48	1.40
11	V3	201	CYC	C3D-C2D	3.42	1.47	1.37
11	K4	201	CYC	CHB-C4A	3.42	1.48	1.40
11	03	901	CYC	C3D-C2D	3.41	1.47	1.37
11	V7	1001	CYC	C1C-NC	-3.41	1.33	1.37
11	A5	301	CYC	C2C-C1C	-3.41	1.49	1.52
11	C7	1001	CYC	C1C-NC	-3.41	1.33	1.37
11	C6	203	CYC	CHB-C4A	3.41	1.48	1.40
11	O7	1001	CYC	C1C-NC	-3.41	1.33	1.37
11	A4	301	CYC	CHB-C4A	3.41	1.48	1.40
11	m3	201	CYC	C3D-C2D	3.40	1.47	1.37
11	E4	201	CYC	CHB-C4A	3.40	1.48	1.40
11	A7	1001	CYC	C1C-NC	-3.40	1.33	1.37
11	G4	202	CYC	CHB-C4A	3.40	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	Z7	1001	CYC	C1C-NC	-3.40	1.33	1.37
11	O6	201	CYC	CHB-C4A	3.40	1.48	1.40
11	X2	203	CYC	CHB-C4A	3.40	1.48	1.40
11	S2	201	CYC	CHB-C4A	3.39	1.48	1.40
11	13	901	CYC	C3D-C2D	3.39	1.47	1.37
11	W2	201	CYC	CHB-C4A	3.39	1.48	1.40
11	D2	201	CYC	CHB-C4A	3.39	1.48	1.40
11	E2	203	CYC	CHB-C4A	3.39	1.48	1.40
11	K2	203	CYC	CHB-C4A	3.39	1.48	1.40
11	T2	201	CYC	CHB-C4A	3.39	1.48	1.40
11	G5	201	CYC	C2C-C1C	-3.39	1.49	1.52
11	N5	301	CYC	C2C-C1C	-3.39	1.49	1.52
11	J7	1001	CYC	C1C-NC	-3.38	1.33	1.37
11	H6	201	CYC	CHB-C4A	3.38	1.48	1.40
11	Z1	201	CYC	C2C-C1C	-3.38	1.49	1.52
11	X7	1001	CYC	C1C-NC	-3.38	1.33	1.37
11	G1	201	CYC	C2C-C1C	-3.38	1.49	1.52
11	N1	301	CYC	C2C-C1C	-3.38	1.49	1.52
11	G5	202	CYC	C1C-NC	-3.38	1.33	1.37
11	L6	201	CYC	CHB-C4A	3.38	1.48	1.40
11	H2	201	CYC	CHB-C4A	3.37	1.48	1.40
11	I2	203	CYC	CHB-C4A	3.37	1.48	1.40
11	T1	201	CYC	C1C-NC	-3.37	1.33	1.37
11	I1	202	CYC	C1C-NC	-3.37	1.33	1.37
11	Y6	201	CYC	CHB-C4A	3.37	1.48	1.40
11	M1	201	CYC	C2C-C1C	-3.37	1.49	1.52
11	Z2	201	CYC	CHB-C4A	3.37	1.48	1.40
11	U6	201	CYC	CHB-C4A	3.37	1.48	1.40
11	A5	302	CYC	C2C-C1C	-3.37	1.49	1.52
11	F6	201	CYC	CHB-C4A	3.37	1.48	1.40
11	Q2	201	CYC	CHB-C4A	3.36	1.48	1.40
11	J6	201	CYC	CHB-C4A	3.36	1.48	1.40
11	G1	202	CYC	C1C-NC	-3.36	1.33	1.37
11	V1	201	CYC	C2C-C1C	-3.36	1.49	1.52
11	X5	201	CYC	C2C-C1C	-3.36	1.49	1.52
11	B2	201	CYC	CHB-C4A	3.36	1.48	1.40
11	W6	201	CYC	CHB-C4A	3.36	1.48	1.40
11	C5	201	CYC	C1C-NC	-3.36	1.33	1.37
11	I5	202	CYC	C1C-NC	-3.36	1.33	1.37
11	Q6	201	CYC	CHB-C4A	3.35	1.48	1.40
11	B6	201	CYC	CHB-C4A	3.35	1.48	1.40
11	P5	201	CYC	C2C-C1C	-3.34	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	T5	201	CYC	C1C-NC	-3.34	1.33	1.37
11	I1	201	CYC	C2C-C1C	-3.34	1.49	1.52
11	R1	202	CYC	C1C-NC	-3.34	1.33	1.37
11	M5	202	CYC	C1C-NC	-3.34	1.33	1.37
11	K4	201	CYC	OB-C4B	3.33	1.29	1.23
11	A1	302	CYC	C2C-C1C	-3.33	1.49	1.52
11	Q7	1001	CYC	C1C-NC	-3.33	1.33	1.37
11	X1	201	CYC	C2C-C1C	-3.32	1.49	1.52
11	U1	202	CYC	C1C-NC	-3.32	1.33	1.37
11	Q5	201	CYC	C3D-C2D	3.32	1.47	1.37
11	M5	201	CYC	C2C-C1C	-3.32	1.49	1.52
11	X5	202	CYC	C1C-NC	-3.32	1.33	1.37
11	C1	201	CYC	C1C-NC	-3.32	1.33	1.37
11	U5	202	CYC	C1C-NC	-3.31	1.33	1.37
11	V5	201	CYC	C2C-C1C	-3.31	1.49	1.52
11	D5	201	CYC	C1C-NC	-3.31	1.33	1.37
11	X1	202	CYC	C1C-NC	-3.31	1.33	1.37
11	V5	202	CYC	C3D-C2D	3.31	1.47	1.37
11	V1	202	CYC	C3D-C2D	3.31	1.47	1.37
11	T4	201	CYC	OB-C4B	3.31	1.29	1.23
11	Q1	201	CYC	C3D-C2D	3.30	1.47	1.37
11	K1	202	CYC	C1C-NC	-3.30	1.33	1.37
11	Z1	202	CYC	C1C-NC	-3.30	1.33	1.37
11	K8	201	CYC	OB-C4B	3.30	1.29	1.23
11	D1	201	CYC	C1C-NC	-3.30	1.33	1.37
11	T8	201	CYC	OB-C4B	3.30	1.29	1.23
11	R1	201	CYC	C2C-C1C	-3.30	1.49	1.52
11	R5	202	CYC	C1C-NC	-3.30	1.33	1.37
11	L1	201	CYC	C3D-C2D	3.30	1.47	1.37
11	Q3	1001	CYC	C2C-C1C	-3.30	1.49	1.52
11	L5	201	CYC	C3D-C2D	3.29	1.47	1.37
11	E4	201	CYC	OB-C4B	3.29	1.29	1.23
11	J1	201	CYC	C3D-C2D	3.29	1.47	1.37
11	Z5	202	CYC	C1C-NC	-3.29	1.33	1.37
11	O1	201	CYC	C3D-C2D	3.29	1.47	1.37
11	O5	201	CYC	C3D-C2D	3.29	1.47	1.37
11	X5	203	CYC	C3D-C2D	3.29	1.47	1.37
11	U4	201	CYC	CHB-C4A	3.29	1.48	1.40
11	J5	201	CYC	C3D-C2D	3.29	1.47	1.37
11	M4	202	CYC	C2C-C1C	-3.28	1.49	1.52
11	I5	201	CYC	C2C-C1C	-3.28	1.49	1.52
11	D4	201	CYC	C3D-C2D	3.28	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	S1	201	CYC	C3D-C2D	3.28	1.47	1.37
11	V4	201	CYC	OB-C4B	3.28	1.29	1.23
11	M1	202	CYC	C1C-NC	-3.28	1.33	1.37
11	K1	201	CYC	C2C-C1C	-3.28	1.49	1.52
11	P1	201	CYC	C2C-C1C	-3.28	1.49	1.52
11	B1	201	CYC	C3D-C2D	3.28	1.47	1.37
11	B5	201	CYC	C3D-C2D	3.28	1.47	1.37
11	K5	202	CYC	C1C-NC	-3.28	1.33	1.37
11	X1	203	CYC	C3D-C2D	3.28	1.47	1.37
11	P8	201	CYC	OB-C4B	3.28	1.29	1.23
11	S5	201	CYC	C3D-C2D	3.27	1.47	1.37
11	G4	201	CYC	C3D-C2D	3.27	1.47	1.37
11	E8	201	CYC	OB-C4B	3.27	1.29	1.23
11	C1	202	CYC	C3D-C2D	3.27	1.47	1.37
11	I4	201	CYC	OB-C4B	3.27	1.29	1.23
11	U1	201	CYC	C3D-C2D	3.27	1.47	1.37
11	H5	201	CYC	C3D-C2D	3.27	1.47	1.37
11	I8	201	CYC	OB-C4B	3.27	1.29	1.23
11	H1	201	CYC	C3D-C2D	3.26	1.47	1.37
11	U8	201	CYC	CHB-C4A	3.26	1.48	1.40
11	D4	201	CYC	CHB-C4A	3.26	1.48	1.40
11	P4	201	CYC	OB-C4B	3.26	1.29	1.23
11	U4	201	CYC	C3D-C2D	3.26	1.47	1.37
11	D8	201	CYC	C3D-C2D	3.26	1.47	1.37
11	X4	201	CYC	OB-C4B	3.26	1.29	1.23
11	F1	201	CYC	C3D-C2D	3.26	1.47	1.37
11	L4	201	CYC	C3D-C2D	3.25	1.47	1.37
11	V8	201	CYC	OB-C4B	3.25	1.29	1.23
11	M8	202	CYC	C2C-C1C	-3.25	1.49	1.52
11	D8	201	CYC	CHB-C4A	3.25	1.48	1.40
11	Z8	201	CYC	OB-C4B	3.25	1.29	1.23
11	P1	202	CYC	C1C-NC	-3.25	1.33	1.37
11	P5	202	CYC	C1C-NC	-3.25	1.33	1.37
11	C5	202	CYC	C3D-C2D	3.25	1.47	1.37
11	R5	201	CYC	C2C-C1C	-3.25	1.49	1.52
11	L4	201	CYC	CHB-C4A	3.25	1.48	1.40
11	G8	201	CYC	C3D-C2D	3.25	1.47	1.37
11	P4	203	CYC	CHB-C4A	3.25	1.48	1.40
11	A8	301	CYC	OB-C4B	3.25	1.29	1.23
11	U8	201	CYC	C3D-C2D	3.25	1.47	1.37
11	X8	201	CYC	OB-C4B	3.24	1.29	1.23
11	U5	201	CYC	C3D-C2D	3.24	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	E4	203	CYC	CHB-C4A	3.24	1.48	1.40
11	I4	203	CYC	C3D-C2D	3.24	1.47	1.37
11	I8	203	CYC	CHB-C4A	3.24	1.48	1.40
11	K5	201	CYC	C2C-C1C	-3.24	1.49	1.52
11	G4	202	CYC	OB-C4B	3.24	1.29	1.23
11	g3	1001	CYC	C3D-C2D	3.24	1.47	1.37
11	E4	201	CYC	C2C-C1C	-3.24	1.49	1.52
11	V4	201	CYC	C2C-C1C	-3.24	1.49	1.52
11	G8	202	CYC	OB-C4B	3.24	1.29	1.23
11	I4	203	CYC	CHB-C4A	3.24	1.48	1.40
11	F5	201	CYC	C3D-C2D	3.24	1.47	1.37
11	M4	201	CYC	CHB-C4A	3.24	1.48	1.40
11	L8	201	CYC	C3D-C2D	3.23	1.47	1.37
11	W4	201	CYC	C3D-C2D	3.23	1.47	1.37
11	M8	202	CYC	OB-C4B	3.23	1.29	1.23
11	S8	201	CYC	CHB-C4A	3.23	1.48	1.40
11	Q3	1001	CYC	C3D-C2D	3.23	1.47	1.37
11	G4	201	CYC	CHB-C4A	3.23	1.48	1.40
11	Y8	201	CYC	CHB-C4A	3.23	1.48	1.40
11	E8	203	CYC	C3D-C2D	3.23	1.47	1.37
11	P8	203	CYC	CHB-C4A	3.23	1.48	1.40
11	S4	201	CYC	CHB-C4A	3.23	1.48	1.40
11	N8	301	CYC	C2C-C1C	-3.23	1.49	1.52
11	A4	301	CYC	OB-C4B	3.23	1.29	1.23
11	E4	203	CYC	C3D-C2D	3.23	1.47	1.37
11	W8	201	CYC	C3D-C2D	3.22	1.47	1.37
11	L8	201	CYC	CHB-C4A	3.22	1.48	1.40
11	I8	203	CYC	C3D-C2D	3.22	1.47	1.37
11	G8	201	CYC	CHB-C4A	3.22	1.48	1.40
11	M8	201	CYC	CHB-C4A	3.22	1.48	1.40
11	O8	201	CYC	C3D-C2D	3.22	1.47	1.37
11	E8	203	CYC	CHB-C4A	3.22	1.48	1.40
11	N8	301	CYC	OB-C4B	3.22	1.29	1.23
11	S8	201	CYC	C3D-C2D	3.22	1.47	1.37
11	P8	203	CYC	C3D-C2D	3.22	1.47	1.37
11	W8	201	CYC	CHB-C4A	3.21	1.47	1.40
11	Z4	201	CYC	OB-C4B	3.21	1.29	1.23
11	N4	301	CYC	OB-C4B	3.21	1.29	1.23
11	O4	201	CYC	C3D-C2D	3.21	1.47	1.37
11	M4	202	CYC	OB-C4B	3.21	1.29	1.23
11	V3	201	CYC	C2C-C1C	-3.21	1.49	1.52
11	V8	201	CYC	C2C-C1C	-3.21	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	X4	201	CYC	C2C-C1C	-3.21	1.49	1.52
11	Z4	201	CYC	C2C-C1C	-3.21	1.49	1.52
11	S4	201	CYC	C3D-C2D	3.21	1.47	1.37
11	Y8	201	CYC	C3D-C2D	3.21	1.47	1.37
11	P4	203	CYC	C3D-C2D	3.21	1.47	1.37
11	13	901	CYC	C1C-NC	-3.21	1.33	1.37
11	W4	201	CYC	CHB-C4A	3.21	1.47	1.40
11	A4	301	CYC	C2C-C1C	-3.21	1.49	1.52
11	O8	201	CYC	CHB-C4A	3.21	1.47	1.40
11	P4	201	CYC	C2C-C1C	-3.20	1.49	1.52
11	Z8	201	CYC	C2C-C1C	-3.20	1.49	1.52
11	M8	201	CYC	C3D-C2D	3.20	1.47	1.37
11	M4	201	CYC	C3D-C2D	3.19	1.47	1.37
11	A8	301	CYC	C2C-C1C	-3.19	1.49	1.52
11	Y4	201	CYC	C3D-C2D	3.19	1.47	1.37
11	E8	201	CYC	C2C-C1C	-3.19	1.49	1.52
11	T8	201	CYC	C2C-C1C	-3.19	1.49	1.52
11	G8	202	CYC	C2C-C1C	-3.19	1.49	1.52
11	m3	201	CYC	C2C-C1C	-3.19	1.49	1.52
11	Y4	201	CYC	CHB-C4A	3.18	1.47	1.40
11	03	901	CYC	C1C-NC	-3.18	1.33	1.37
11	P8	201	CYC	C2C-C1C	-3.18	1.49	1.52
11	O4	201	CYC	CHB-C4A	3.18	1.47	1.40
11	g3	1001	CYC	C2C-C1C	-3.18	1.49	1.52
11	G4	202	CYC	C2C-C1C	-3.17	1.49	1.52
11	N4	301	CYC	C2C-C1C	-3.16	1.49	1.52
11	v3	1001	CYC	C3D-C2D	3.16	1.47	1.37
11	J3	201	CYC	C3D-C2D	3.16	1.47	1.37
11	U3	1001	CYC	C3D-C2D	3.16	1.47	1.37
11	t3	1001	CYC	C3D-C2D	3.16	1.47	1.37
11	K4	201	CYC	C2C-C1C	-3.16	1.49	1.52
11	T4	201	CYC	C2C-C1C	-3.16	1.49	1.52
11	z3	1001	CYC	C3D-C2D	3.16	1.47	1.37
11	c3	1001	CYC	C3D-C2D	3.16	1.47	1.37
11	03	902	CYC	C3D-C2D	3.15	1.47	1.37
11	S7	1001	CYC	C3D-C2D	3.15	1.47	1.37
11	13	903	CYC	C3D-C2D	3.15	1.47	1.37
11	13	904	CYC	C3D-C2D	3.15	1.47	1.37
11	p3	1001	CYC	C3D-C2D	3.15	1.47	1.37
11	W3	1001	CYC	C3D-C2D	3.14	1.47	1.37
11	l3	1001	CYC	C3D-C2D	3.14	1.47	1.37
11	e3	1001	CYC	C3D-C2D	3.14	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	H3	1001	CYC	C3D-C2D	3.14	1.47	1.37
11	B7	1001	CYC	C3D-C2D	3.14	1.47	1.37
11	j3	1001	CYC	C3D-C2D	3.14	1.47	1.37
11	x3	1001	CYC	C3D-C2D	3.14	1.47	1.37
11	O3	1001	CYC	C3D-C2D	3.14	1.47	1.37
11	R7	1001	CYC	C3D-C2D	3.13	1.47	1.37
11	J7	1001	CYC	C3D-C2D	3.13	1.46	1.37
11	n3	1001	CYC	C3D-C2D	3.13	1.46	1.37
11	L7	1001	CYC	C3D-C2D	3.13	1.46	1.37
11	E7	1001	CYC	C3D-C2D	3.13	1.46	1.37
11	Z7	1001	CYC	C3D-C2D	3.13	1.46	1.37
11	X8	201	CYC	C2C-C1C	-3.13	1.49	1.52
11	S3	1001	CYC	C3D-C2D	3.13	1.46	1.37
11	13	902	CYC	C3D-C2D	3.13	1.46	1.37
11	K8	201	CYC	C2C-C1C	-3.12	1.49	1.52
11	M3	201	CYC	C3D-C2D	3.12	1.46	1.37
11	F7	1001	CYC	C3D-C2D	3.12	1.46	1.37
11	M7	1001	CYC	C3D-C2D	3.12	1.46	1.37
11	Y7	1001	CYC	C3D-C2D	3.12	1.46	1.37
11	r3	1001	CYC	C3D-C2D	3.12	1.46	1.37
11	I7	1001	CYC	C3D-C2D	3.12	1.46	1.37
11	C7	1001	CYC	C3D-C2D	3.12	1.46	1.37
11	O7	1001	CYC	C3D-C2D	3.11	1.46	1.37
11	K7	1001	CYC	C3D-C2D	3.11	1.46	1.37
11	X7	1001	CYC	C3D-C2D	3.11	1.46	1.37
11	I4	201	CYC	C2C-C1C	-3.11	1.49	1.52
11	A7	1001	CYC	C3D-C2D	3.11	1.46	1.37
11	V7	1001	CYC	C3D-C2D	3.11	1.46	1.37
11	W7	1001	CYC	C3D-C2D	3.11	1.46	1.37
11	I8	201	CYC	C2C-C1C	-3.11	1.49	1.52
11	H7	1001	CYC	C3D-C2D	3.11	1.46	1.37
11	Q7	1001	CYC	C3D-C2D	3.10	1.46	1.37
11	T7	1001	CYC	C3D-C2D	3.10	1.46	1.37
11	D7	1001	CYC	C3D-C2D	3.09	1.46	1.37
11	a7	1001	CYC	C3D-C2D	3.09	1.46	1.37
11	P7	1001	CYC	C3D-C2D	3.08	1.46	1.37
11	T3	1001	CYC	C2C-C1C	-3.06	1.49	1.52
11	s3	1001	CYC	C2C-C1C	-3.03	1.49	1.52
11	H6	201	CYC	C2C-C1C	-3.02	1.49	1.52
11	k3	1001	CYC	C2C-C1C	-3.01	1.49	1.52
11	d3	1001	CYC	C2C-C1C	-3.01	1.49	1.52
11	w3	1001	CYC	C2C-C1C	-3.00	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	f3	1001	CYC	C2C-C1C	-2.99	1.49	1.52
11	G3	1001	CYC	C2C-C1C	-2.99	1.49	1.52
11	N3	1001	CYC	C2C-C1C	-2.99	1.49	1.52
11	P3	1001	CYC	C2C-C1C	-2.98	1.49	1.52
11	R3	1001	CYC	C2C-C1C	-2.98	1.49	1.52
11	i3	1001	CYC	C2C-C1C	-2.95	1.49	1.52
11	H2	201	CYC	C2C-C1C	-2.95	1.49	1.52
11	q3	1001	CYC	C2C-C1C	-2.95	1.49	1.52
11	K3	1001	CYC	C2C-C1C	-2.95	1.49	1.52
11	X3	1001	CYC	C2C-C1C	-2.95	1.49	1.52
11	F6	201	CYC	C2C-C1C	-2.95	1.49	1.52
11	y3	1001	CYC	C2C-C1C	-2.94	1.49	1.52
11	O6	201	CYC	C3D-C2D	2.94	1.46	1.37
11	b3	1001	CYC	C2C-C1C	-2.94	1.49	1.52
11	U6	201	CYC	C3D-C2D	2.94	1.46	1.37
11	Y6	201	CYC	C2C-C1C	-2.93	1.49	1.52
11	R3	1001	CYC	C3D-C2D	2.93	1.46	1.37
11	J6	201	CYC	C3D-C2D	2.93	1.46	1.37
11	Z3	1001	CYC	C2C-C1C	-2.93	1.49	1.52
11	Z2	201	CYC	C3D-C2D	2.93	1.46	1.37
11	W2	201	CYC	C2C-C1C	-2.93	1.49	1.52
11	W6	201	CYC	C2C-C1C	-2.93	1.49	1.52
11	L6	201	CYC	C3D-C2D	2.93	1.46	1.37
11	W2	201	CYC	C3D-C2D	2.92	1.46	1.37
11	K2	203	CYC	C3D-C2D	2.92	1.46	1.37
11	W6	201	CYC	C3D-C2D	2.92	1.46	1.37
11	R6	202	CYC	C2C-C1C	-2.92	1.49	1.52
11	w3	1001	CYC	C3D-C2D	2.92	1.46	1.37
11	I3	1001	CYC	C2C-C1C	-2.92	1.49	1.52
11	E2	203	CYC	C3D-C2D	2.92	1.46	1.37
11	o3	1001	CYC	C2C-C1C	-2.91	1.49	1.52
11	I2	203	CYC	C3D-C2D	2.91	1.46	1.37
11	S2	201	CYC	C3D-C2D	2.91	1.46	1.37
11	T3	1001	CYC	C3D-C2D	2.91	1.46	1.37
11	i3	1001	CYC	C3D-C2D	2.91	1.46	1.37
11	X3	1001	CYC	C3D-C2D	2.91	1.46	1.37
11	Q5	201	CYC	OB-C4B	2.91	1.29	1.23
11	B6	201	CYC	C2C-C1C	-2.91	1.49	1.52
11	T2	201	CYC	C3D-C2D	2.91	1.46	1.37
11	B6	201	CYC	C3D-C2D	2.91	1.46	1.37
11	T2	201	CYC	C2C-C1C	-2.90	1.49	1.52
11	X2	203	CYC	C2C-C1C	-2.90	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	O6	201	CYC	C2C-C1C	-2.90	1.49	1.52
11	F6	201	CYC	C3D-C2D	2.90	1.46	1.37
11	D2	201	CYC	C3D-C2D	2.90	1.46	1.37
11	Z3	1001	CYC	C3D-C2D	2.90	1.46	1.37
11	f3	1001	CYC	C3D-C2D	2.90	1.46	1.37
11	q3	1001	CYC	C3D-C2D	2.90	1.46	1.37
11	u3	1001	CYC	C3D-C2D	2.90	1.46	1.37
11	s3	1001	CYC	C3D-C2D	2.90	1.46	1.37
11	b3	1001	CYC	C3D-C2D	2.90	1.46	1.37
11	B2	201	CYC	C3D-C2D	2.90	1.46	1.37
11	N3	1001	CYC	C3D-C2D	2.90	1.46	1.37
11	u3	1001	CYC	C2C-C1C	-2.90	1.49	1.52
11	H2	201	CYC	C3D-C2D	2.90	1.46	1.37
11	K3	1001	CYC	C3D-C2D	2.90	1.46	1.37
11	G3	1001	CYC	C3D-C2D	2.90	1.46	1.37
11	B2	201	CYC	C2C-C1C	-2.89	1.49	1.52
11	C6	203	CYC	C3D-C2D	2.89	1.46	1.37
11	k3	1001	CYC	C3D-C2D	2.89	1.46	1.37
11	H6	201	CYC	C3D-C2D	2.89	1.46	1.37
11	R6	202	CYC	C3D-C2D	2.89	1.46	1.37
11	X2	203	CYC	C3D-C2D	2.89	1.46	1.37
11	I3	1001	CYC	C3D-C2D	2.89	1.46	1.37
11	D2	201	CYC	C2C-C1C	-2.89	1.49	1.52
11	E2	203	CYC	C2C-C1C	-2.89	1.49	1.52
11	Y6	201	CYC	C3D-C2D	2.89	1.46	1.37
11	L6	201	CYC	C2C-C1C	-2.89	1.49	1.52
11	Q6	201	CYC	C3D-C2D	2.89	1.46	1.37
11	o3	1001	CYC	C3D-C2D	2.89	1.46	1.37
11	Q2	201	CYC	C3D-C2D	2.88	1.46	1.37
11	y3	1001	CYC	C3D-C2D	2.88	1.46	1.37
11	d3	1001	CYC	C3D-C2D	2.88	1.46	1.37
11	P3	1001	CYC	C3D-C2D	2.88	1.46	1.37
11	S2	201	CYC	C2C-C1C	-2.88	1.49	1.52
11	K2	203	CYC	C2C-C1C	-2.88	1.49	1.52
11	V5	202	CYC	OB-C4B	2.88	1.29	1.23
11	Q2	201	CYC	C2C-C1C	-2.88	1.49	1.52
11	J6	201	CYC	C2C-C1C	-2.86	1.49	1.52
11	I2	203	CYC	C2C-C1C	-2.86	1.49	1.52
11	S5	201	CYC	OB-C4B	2.86	1.29	1.23
11	Q1	201	CYC	OB-C4B	2.86	1.29	1.23
11	S1	201	CYC	OB-C4B	2.86	1.29	1.23
11	Z2	201	CYC	C2C-C1C	-2.86	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	Q6	201	CYC	C2C-C1C	-2.85	1.49	1.52
11	V1	202	CYC	OB-C4B	2.84	1.29	1.23
11	Y4	201	CYC	OB-C4B	2.84	1.29	1.23
11	X5	203	CYC	OB-C4B	2.84	1.29	1.23
11	Z6	201	CYC	OB-C4B	2.84	1.29	1.23
11	U6	201	CYC	C2C-C1C	-2.84	1.49	1.52
11	X1	203	CYC	OB-C4B	2.84	1.29	1.23
11	S4	201	CYC	OB-C4B	2.84	1.29	1.23
11	G8	201	CYC	OB-C4B	2.84	1.29	1.23
11	Y8	201	CYC	OB-C4B	2.83	1.29	1.23
11	J5	201	CYC	OB-C4B	2.83	1.29	1.23
11	L8	201	CYC	OB-C4B	2.83	1.29	1.23
11	C5	202	CYC	OB-C4B	2.83	1.29	1.23
11	D4	201	CYC	OB-C4B	2.82	1.29	1.23
11	C6	203	CYC	C2C-C1C	-2.82	1.49	1.52
11	G4	201	CYC	OB-C4B	2.82	1.28	1.23
11	D8	201	CYC	OB-C4B	2.82	1.28	1.23
11	E4	203	CYC	OB-C4B	2.82	1.28	1.23
11	U1	201	CYC	OB-C4B	2.81	1.28	1.23
11	O8	201	CYC	OB-C4B	2.81	1.28	1.23
11	Z2	202	CYC	OB-C4B	2.81	1.28	1.23
11	M8	201	CYC	OB-C4B	2.81	1.28	1.23
11	H1	201	CYC	OB-C4B	2.81	1.28	1.23
11	S8	201	CYC	OB-C4B	2.81	1.28	1.23
11	F5	201	CYC	OB-C4B	2.81	1.28	1.23
11	C1	202	CYC	OB-C4B	2.81	1.28	1.23
11	U8	201	CYC	OB-C4B	2.81	1.28	1.23
11	J1	201	CYC	OB-C4B	2.81	1.28	1.23
11	M4	201	CYC	OB-C4B	2.81	1.28	1.23
11	O1	201	CYC	OB-C4B	2.81	1.28	1.23
11	U5	201	CYC	OB-C4B	2.81	1.28	1.23
11	O5	201	CYC	OB-C4B	2.80	1.28	1.23
11	P5	201	CYC	C3D-C2D	2.80	1.46	1.37
11	E8	203	CYC	OB-C4B	2.80	1.28	1.23
11	L1	201	CYC	OB-C4B	2.80	1.28	1.23
11	F1	201	CYC	OB-C4B	2.80	1.28	1.23
11	U4	201	CYC	OB-C4B	2.80	1.28	1.23
11	N1	301	CYC	C3D-C2D	2.80	1.46	1.37
11	H5	201	CYC	OB-C4B	2.80	1.28	1.23
11	B1	201	CYC	OB-C4B	2.80	1.28	1.23
11	X5	201	CYC	C1B-NB	-2.80	1.33	1.37
11	Q7	1001	CYC	O1A-CGA	2.80	1.31	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	X1	201	CYC	C3D-C2D	2.79	1.46	1.37
11	N5	301	CYC	C3D-C2D	2.79	1.46	1.37
11	L4	201	CYC	OB-C4B	2.79	1.28	1.23
11	E7	1001	CYC	O1A-CGA	2.79	1.31	1.22
11	A6	301	CYC	OB-C4B	2.79	1.28	1.23
11	B5	201	CYC	OB-C4B	2.79	1.28	1.23
11	L5	201	CYC	OB-C4B	2.79	1.28	1.23
11	H7	1001	CYC	O1A-CGA	2.79	1.31	1.22
11	P8	203	CYC	OB-C4B	2.79	1.28	1.23
11	R5	201	CYC	C3D-C2D	2.79	1.45	1.37
11	M1	201	CYC	C3D-C2D	2.78	1.45	1.37
11	W8	201	CYC	OB-C4B	2.78	1.28	1.23
11	Z5	201	CYC	C3D-C2D	2.78	1.45	1.37
11	C7	1001	CYC	O1A-CGA	2.78	1.31	1.22
11	Z1	201	CYC	C3D-C2D	2.78	1.45	1.37
11	X5	201	CYC	C3D-C2D	2.78	1.45	1.37
11	I5	201	CYC	C1B-NB	-2.78	1.33	1.37
11	O4	201	CYC	OB-C4B	2.78	1.28	1.23
11	A5	301	CYC	C3D-C2D	2.78	1.45	1.37
11	X7	1001	CYC	O1A-CGA	2.78	1.31	1.22
11	n3	1001	CYC	C2C-C1C	-2.78	1.49	1.52
11	I8	203	CYC	OB-C4B	2.78	1.28	1.23
11	X1	201	CYC	C1B-NB	-2.78	1.33	1.37
11	I1	201	CYC	C3D-C2D	2.78	1.45	1.37
11	S7	1001	CYC	O2A-CGA	2.77	1.40	1.30
11	I2	201	CYC	OB-C4B	2.77	1.28	1.23
11	S7	1001	CYC	O1A-CGA	2.77	1.31	1.22
11	Z7	1001	CYC	O1A-CGA	2.77	1.31	1.22
11	J7	1001	CYC	O2A-CGA	2.77	1.40	1.30
11	A2	301	CYC	OB-C4B	2.77	1.28	1.23
11	P1	201	CYC	C3D-C2D	2.77	1.45	1.37
11	C2	201	CYC	OB-C4B	2.77	1.28	1.23
11	r3	1001	CYC	C2C-C1C	-2.77	1.49	1.52
11	P5	201	CYC	C1B-NB	-2.77	1.33	1.37
11	G5	201	CYC	C3D-C2D	2.77	1.45	1.37
11	M5	201	CYC	C3D-C2D	2.77	1.45	1.37
11	e3	1001	CYC	C2C-C1C	-2.77	1.49	1.52
11	J7	1001	CYC	O1A-CGA	2.77	1.31	1.22
11	I6	201	CYC	C3D-C2D	2.77	1.45	1.37
11	V7	1001	CYC	O1A-CGA	2.77	1.31	1.22
11	M5	201	CYC	C1B-NB	-2.77	1.33	1.37
11	A7	1001	CYC	O1A-CGA	2.77	1.31	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	M2	201	CYC	OB-C4B	2.77	1.28	1.23
11	I4	203	CYC	OB-C4B	2.77	1.28	1.23
11	P6	201	CYC	OB-C4B	2.77	1.28	1.23
11	L7	1001	CYC	O1A-CGA	2.77	1.31	1.22
11	O7	1001	CYC	O1A-CGA	2.77	1.31	1.22
11	E2	201	CYC	OB-C4B	2.77	1.28	1.23
11	A1	301	CYC	C3D-C2D	2.77	1.45	1.37
11	K1	201	CYC	C3D-C2D	2.77	1.45	1.37
11	I6	201	CYC	OB-C4B	2.76	1.28	1.23
11	O7	1001	CYC	O2A-CGA	2.76	1.40	1.30
11	Z7	1001	CYC	O2A-CGA	2.76	1.40	1.30
11	A7	1001	CYC	O2A-CGA	2.76	1.40	1.30
11	V1	201	CYC	C3D-C2D	2.76	1.45	1.37
11	C6	201	CYC	OB-C4B	2.76	1.28	1.23
11	E7	1001	CYC	O2A-CGA	2.76	1.40	1.30
11	P1	201	CYC	C1B-NB	-2.76	1.33	1.37
11	N2	301	CYC	OB-C4B	2.76	1.28	1.23
11	V7	1001	CYC	O2A-CGA	2.76	1.40	1.30
11	X7	1001	CYC	O2A-CGA	2.76	1.40	1.30
11	I1	201	CYC	C1B-NB	-2.76	1.33	1.37
11	L7	1001	CYC	O2A-CGA	2.76	1.40	1.30
11	R1	201	CYC	C3D-C2D	2.76	1.45	1.37
11	I5	201	CYC	C3D-C2D	2.76	1.45	1.37
11	C6	201	CYC	C3D-C2D	2.76	1.45	1.37
11	K5	201	CYC	C3D-C2D	2.76	1.45	1.37
11	A1	302	CYC	C3D-C2D	2.76	1.45	1.37
11	Q7	1001	CYC	O2A-CGA	2.76	1.40	1.30
11	03	901	CYC	C2C-C1C	-2.75	1.49	1.52
11	P2	201	CYC	OB-C4B	2.75	1.28	1.23
11	W4	201	CYC	OB-C4B	2.75	1.28	1.23
11	E6	201	CYC	OB-C4B	2.75	1.28	1.23
11	P4	203	CYC	OB-C4B	2.75	1.28	1.23
11	G1	201	CYC	C3D-C2D	2.75	1.45	1.37
11	N6	301	CYC	OB-C4B	2.75	1.28	1.23
11	Z5	201	CYC	C1B-NB	-2.75	1.33	1.37
11	M6	201	CYC	OB-C4B	2.75	1.28	1.23
11	V2	201	CYC	OB-C4B	2.75	1.28	1.23
11	K6	201	CYC	C3D-C2D	2.75	1.45	1.37
11	A5	302	CYC	C3D-C2D	2.74	1.45	1.37
11	M1	201	CYC	C1B-NB	-2.74	1.33	1.37
11	I2	201	CYC	C3D-C2D	2.74	1.45	1.37
11	H7	1001	CYC	O2A-CGA	2.74	1.40	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	C2	201	CYC	C3D-C2D	2.74	1.45	1.37
11	V5	201	CYC	C3D-C2D	2.74	1.45	1.37
11	C7	1001	CYC	O2A-CGA	2.74	1.39	1.30
11	M2	201	CYC	C3D-C2D	2.74	1.45	1.37
11	N2	302	CYC	OB-C4B	2.74	1.28	1.23
11	N6	302	CYC	OB-C4B	2.74	1.28	1.23
11	M6	201	CYC	C3D-C2D	2.74	1.45	1.37
11	X2	201	CYC	OB-C4B	2.73	1.28	1.23
11	P6	201	CYC	C3D-C2D	2.73	1.45	1.37
11	V6	201	CYC	OB-C4B	2.73	1.28	1.23
11	A5	301	CYC	C1B-NB	-2.73	1.33	1.37
11	N6	302	CYC	C3D-C2D	2.73	1.45	1.37
11	V6	201	CYC	C3D-C2D	2.73	1.45	1.37
11	A1	301	CYC	C1B-NB	-2.73	1.33	1.37
11	K2	201	CYC	C3D-C2D	2.73	1.45	1.37
11	N2	301	CYC	C3D-C2D	2.73	1.45	1.37
11	N6	301	CYC	C3D-C2D	2.73	1.45	1.37
11	p3	1001	CYC	C2C-C1C	-2.73	1.49	1.52
11	N2	302	CYC	C3D-C2D	2.73	1.45	1.37
11	A5	302	CYC	C1B-NB	-2.73	1.33	1.37
11	N1	301	CYC	C1B-NB	-2.72	1.33	1.37
11	K2	201	CYC	OB-C4B	2.72	1.28	1.23
11	U3	1001	CYC	C2C-C1C	-2.72	1.49	1.52
11	A1	302	CYC	C1B-NB	-2.72	1.33	1.37
11	X6	201	CYC	OB-C4B	2.72	1.28	1.23
11	E2	201	CYC	C3D-C2D	2.72	1.45	1.37
11	E6	201	CYC	C3D-C2D	2.72	1.45	1.37
11	P2	201	CYC	C3D-C2D	2.72	1.45	1.37
11	Z2	202	CYC	C3D-C2D	2.72	1.45	1.37
11	G1	201	CYC	C1B-NB	-2.71	1.33	1.37
11	Z1	201	CYC	C1B-NB	-2.71	1.33	1.37
11	A2	301	CYC	C3D-C2D	2.71	1.45	1.37
11	03	902	CYC	C2C-C1C	-2.71	1.49	1.52
11	K6	201	CYC	OB-C4B	2.71	1.28	1.23
11	X2	201	CYC	C3D-C2D	2.71	1.45	1.37
11	Z6	201	CYC	C3D-C2D	2.71	1.45	1.37
11	K1	201	CYC	C1B-NB	-2.70	1.33	1.37
11	O3	1001	CYC	C2C-C1C	-2.70	1.49	1.52
11	c3	1001	CYC	C2C-C1C	-2.70	1.49	1.52
11	l3	1001	CYC	C2C-C1C	-2.70	1.49	1.52
11	X6	201	CYC	C3D-C2D	2.70	1.45	1.37
11	V2	201	CYC	C3D-C2D	2.70	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	H3	1001	CYC	C2C-C1C	-2.70	1.49	1.52
11	A6	301	CYC	C3D-C2D	2.70	1.45	1.37
11	K5	201	CYC	C1B-NB	-2.69	1.33	1.37
11	V1	201	CYC	C1B-NB	-2.69	1.33	1.37
11	m3	201	CYC	O1D-CGD	2.69	1.31	1.22
11	G5	201	CYC	C1B-NB	-2.68	1.33	1.37
11	G4	202	CYC	C3D-C2D	2.68	1.45	1.37
11	P6	201	CYC	C4C-NC	-2.68	1.31	1.37
11	W3	1001	CYC	C2C-C1C	-2.68	1.49	1.52
11	P4	201	CYC	C3D-C2D	2.68	1.45	1.37
11	M3	201	CYC	C2C-C1C	-2.68	1.49	1.52
11	j3	1001	CYC	C2C-C1C	-2.68	1.49	1.52
11	13	904	CYC	C2C-C1C	-2.68	1.49	1.52
11	N5	301	CYC	C1B-NB	-2.67	1.33	1.37
11	R1	201	CYC	C1B-NB	-2.67	1.33	1.37
11	K6	201	CYC	C4C-NC	-2.67	1.31	1.37
11	C2	201	CYC	C4C-NC	-2.67	1.31	1.37
11	G8	202	CYC	C3D-C2D	2.67	1.45	1.37
11	P2	201	CYC	C4C-NC	-2.67	1.31	1.37
11	P8	201	CYC	C3D-C2D	2.67	1.45	1.37
11	13	902	CYC	C2C-C1C	-2.67	1.49	1.52
11	V5	201	CYC	C1B-NB	-2.66	1.33	1.37
11	E4	201	CYC	C1B-C2B	2.66	1.49	1.45
11	N4	301	CYC	C3D-C2D	2.66	1.45	1.37
11	I2	201	CYC	C1B-NB	-2.66	1.33	1.37
11	V8	201	CYC	C3D-C2D	2.66	1.45	1.37
11	v3	1001	CYC	C2C-C1C	-2.66	1.49	1.52
11	G8	202	CYC	C1B-C2B	2.65	1.49	1.45
11	z3	1001	CYC	C2C-C1C	-2.65	1.49	1.52
11	K2	201	CYC	C1B-NB	-2.65	1.33	1.37
11	R5	201	CYC	C1B-NB	-2.65	1.33	1.37
11	V3	201	CYC	O1D-CGD	2.65	1.30	1.22
11	13	901	CYC	C2C-C1C	-2.65	1.49	1.52
11	A4	301	CYC	C3D-C2D	2.65	1.45	1.37
11	E6	201	CYC	C4C-NC	-2.65	1.31	1.37
11	I6	201	CYC	C4C-NC	-2.65	1.31	1.37
11	N6	301	CYC	C1B-NB	-2.65	1.33	1.37
11	t3	1001	CYC	C2C-C1C	-2.65	1.49	1.52
11	Z4	201	CYC	C3D-C2D	2.65	1.45	1.37
11	T8	201	CYC	C3D-C2D	2.65	1.45	1.37
11	N8	301	CYC	C3D-C2D	2.65	1.45	1.37
11	N6	302	CYC	C4C-NC	-2.65	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	E2	201	CYC	C4C-NC	-2.65	1.31	1.37
11	K8	201	CYC	C3D-C2D	2.65	1.45	1.37
11	K6	201	CYC	C1B-NB	-2.65	1.33	1.37
11	Z8	201	CYC	C1B-C2B	2.65	1.49	1.45
11	K2	201	CYC	C4C-NC	-2.65	1.31	1.37
11	N2	301	CYC	C1B-NB	-2.65	1.33	1.37
11	I6	201	CYC	C1B-NB	-2.65	1.33	1.37
11	J3	201	CYC	C2C-C1C	-2.65	1.49	1.52
11	X8	201	CYC	C3D-C2D	2.65	1.45	1.37
11	G4	202	CYC	C1B-C2B	2.64	1.49	1.45
11	N8	301	CYC	C1B-C2B	2.64	1.49	1.45
11	K4	201	CYC	C3D-C2D	2.64	1.45	1.37
11	T4	201	CYC	C3D-C2D	2.64	1.45	1.37
11	V6	201	CYC	C4C-NC	-2.64	1.31	1.37
11	Z2	202	CYC	C4C-NC	-2.64	1.31	1.37
11	V4	201	CYC	C1B-C2B	2.64	1.49	1.45
11	V4	201	CYC	C3D-C2D	2.64	1.45	1.37
11	I2	201	CYC	C4C-NC	-2.64	1.31	1.37
11	Z6	201	CYC	C1B-NB	-2.64	1.33	1.37
11	I4	201	CYC	C1B-C2B	2.64	1.49	1.45
11	E8	201	CYC	C3D-C2D	2.64	1.45	1.37
11	Z8	201	CYC	C3D-C2D	2.64	1.45	1.37
11	G8	202	CYC	C1B-NB	-2.64	1.33	1.37
11	A4	301	CYC	C1B-NB	-2.63	1.33	1.37
11	A2	301	CYC	C4C-NC	-2.63	1.31	1.37
11	A6	301	CYC	C4C-NC	-2.63	1.31	1.37
11	M8	202	CYC	C3D-C2D	2.63	1.45	1.37
11	A8	301	CYC	C3D-C2D	2.63	1.45	1.37
11	Z6	201	CYC	C4C-NC	-2.63	1.31	1.37
11	V8	201	CYC	C1B-C2B	2.63	1.49	1.45
11	C2	201	CYC	C1B-NB	-2.63	1.33	1.37
11	C6	201	CYC	C4C-NC	-2.63	1.31	1.37
11	A6	301	CYC	C1B-NB	-2.63	1.33	1.37
11	E8	201	CYC	C1B-C2B	2.63	1.49	1.45
11	V2	201	CYC	C4C-NC	-2.63	1.31	1.37
11	x3	1001	CYC	C2C-C1C	-2.63	1.49	1.52
11	A8	301	CYC	C1B-NB	-2.63	1.33	1.37
11	X4	201	CYC	C1B-NB	-2.63	1.33	1.37
11	N4	301	CYC	C1B-C2B	2.63	1.49	1.45
11	N2	301	CYC	C4C-NC	-2.62	1.31	1.37
11	S3	1001	CYC	C2C-C1C	-2.62	1.49	1.52
11	K4	201	CYC	C1B-NB	-2.62	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	P4	201	CYC	C1B-C2B	2.62	1.49	1.45
11	I8	201	CYC	C1B-C2B	2.62	1.49	1.45
11	K8	201	CYC	C1B-C2B	2.62	1.49	1.45
11	X4	201	CYC	C3D-C2D	2.62	1.45	1.37
11	I8	201	CYC	C3D-C2D	2.62	1.45	1.37
11	C6	201	CYC	C1B-NB	-2.62	1.33	1.37
11	C6	203	CYC	C1B-NB	-2.62	1.33	1.37
11	K8	201	CYC	C1B-NB	-2.62	1.33	1.37
11	A8	301	CYC	C1B-C2B	2.62	1.49	1.45
11	M4	202	CYC	C3D-C2D	2.62	1.45	1.37
11	N8	301	CYC	C1B-NB	-2.62	1.33	1.37
11	N4	301	CYC	C1B-NB	-2.62	1.33	1.37
11	G4	202	CYC	C1B-NB	-2.62	1.33	1.37
11	I4	201	CYC	C1B-NB	-2.62	1.33	1.37
11	I4	201	CYC	C3D-C2D	2.62	1.45	1.37
11	N2	302	CYC	C4C-NC	-2.61	1.31	1.37
11	P8	201	CYC	C1B-C2B	2.61	1.49	1.45
11	Z2	202	CYC	C1B-NB	-2.61	1.33	1.37
11	E8	201	CYC	C1B-NB	-2.61	1.33	1.37
11	P6	201	CYC	C1B-NB	-2.61	1.33	1.37
11	E4	201	CYC	C3D-C2D	2.61	1.45	1.37
11	V4	201	CYC	C1B-NB	-2.61	1.33	1.37
11	P8	201	CYC	C1B-NB	-2.61	1.33	1.37
11	M8	202	CYC	C1B-C2B	2.61	1.49	1.45
11	E7	1001	CYC	C4C-NC	-2.61	1.31	1.37
11	X8	201	CYC	C1B-C2B	2.61	1.49	1.45
11	Z4	201	CYC	C1B-C2B	2.61	1.49	1.45
11	J6	201	CYC	C1B-NB	-2.60	1.33	1.37
11	M4	202	CYC	C1B-NB	-2.60	1.33	1.37
11	N6	301	CYC	C4C-NC	-2.60	1.31	1.37
11	S7	1001	CYC	C4C-NC	-2.60	1.31	1.37
11	X4	201	CYC	C1B-C2B	2.60	1.49	1.45
11	E2	201	CYC	C1B-NB	-2.60	1.33	1.37
11	M2	201	CYC	C1B-NB	-2.60	1.33	1.37
11	M2	201	CYC	C4C-NC	-2.60	1.31	1.37
11	T4	201	CYC	C1B-NB	-2.60	1.33	1.37
11	R6	202	CYC	C1B-NB	-2.60	1.33	1.37
11	A2	301	CYC	C1B-NB	-2.60	1.33	1.37
11	T4	201	CYC	C1B-C2B	2.59	1.49	1.45
11	V2	201	CYC	C1B-NB	-2.59	1.33	1.37
11	T8	201	CYC	C1B-NB	-2.59	1.33	1.37
11	M4	202	CYC	C1B-C2B	2.59	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	T8	201	CYC	C1B-C2B	2.59	1.49	1.45
11	Q6	201	CYC	C1B-NB	-2.59	1.33	1.37
11	K4	201	CYC	C1B-C2B	2.59	1.49	1.45
11	X8	201	CYC	C1B-NB	-2.59	1.33	1.37
11	A4	301	CYC	C1B-C2B	2.59	1.49	1.45
11	E6	201	CYC	C1B-NB	-2.59	1.33	1.37
11	13	903	CYC	C2C-C1C	-2.59	1.49	1.52
11	I8	201	CYC	C1B-NB	-2.59	1.33	1.37
11	F7	1001	CYC	OB-C4B	2.59	1.28	1.23
11	E4	201	CYC	C1B-NB	-2.59	1.33	1.37
11	Q7	1001	CYC	C4C-NC	-2.59	1.31	1.37
11	Z4	201	CYC	C1B-NB	-2.59	1.33	1.37
11	V8	201	CYC	C1B-NB	-2.59	1.33	1.37
11	w3	1001	CYC	C4C-NC	-2.59	1.31	1.37
11	M6	201	CYC	C1B-NB	-2.59	1.33	1.37
11	X2	201	CYC	C1B-NB	-2.58	1.33	1.37
11	V6	201	CYC	C1B-NB	-2.58	1.33	1.37
11	D2	201	CYC	C1B-NB	-2.58	1.33	1.37
11	Z7	1001	CYC	C4C-NC	-2.58	1.31	1.37
11	M6	201	CYC	C4C-NC	-2.58	1.31	1.37
11	Z8	201	CYC	C1B-NB	-2.58	1.33	1.37
11	P2	201	CYC	C1B-NB	-2.58	1.33	1.37
11	V7	1001	CYC	C4C-NC	-2.58	1.31	1.37
11	S2	201	CYC	C1B-NB	-2.58	1.33	1.37
11	Q3	1001	CYC	OB-C4B	2.58	1.28	1.23
11	d3	1001	CYC	C4C-NC	-2.58	1.31	1.37
11	N2	302	CYC	C1B-NB	-2.57	1.33	1.37
11	O7	1001	CYC	C4C-NC	-2.57	1.31	1.37
11	13	901	CYC	OB-C4B	2.57	1.28	1.23
11	X2	201	CYC	C4C-NC	-2.57	1.31	1.37
11	i3	1001	CYC	C4C-NC	-2.57	1.31	1.37
11	C7	1001	CYC	C4C-NC	-2.57	1.31	1.37
11	A4	301	CYC	C4C-NC	-2.57	1.31	1.37
11	A7	1001	CYC	C4C-NC	-2.57	1.31	1.37
11	M7	1001	CYC	OB-C4B	2.57	1.28	1.23
11	U6	201	CYC	C1B-NB	-2.57	1.33	1.37
11	P7	1001	CYC	OB-C4B	2.57	1.28	1.23
11	N3	1001	CYC	C4C-NC	-2.57	1.32	1.37
11	I2	203	CYC	C1B-NB	-2.57	1.33	1.37
11	Q2	201	CYC	C1B-NB	-2.57	1.33	1.37
11	J7	1001	CYC	C4C-NC	-2.57	1.32	1.37
11	a7	1001	CYC	OB-C4B	2.57	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	P4	201	CYC	C1B-NB	-2.57	1.33	1.37
11	Z3	1001	CYC	C4C-NC	-2.57	1.32	1.37
11	X6	201	CYC	C1B-NB	-2.56	1.33	1.37
11	T3	1001	CYC	C4C-NC	-2.56	1.32	1.37
11	o3	1001	CYC	C4C-NC	-2.56	1.32	1.37
11	k3	1001	CYC	C4C-NC	-2.56	1.32	1.37
11	K8	201	CYC	C4C-NC	-2.56	1.32	1.37
11	L6	201	CYC	C1B-NB	-2.56	1.33	1.37
11	Y6	201	CYC	C1B-NB	-2.56	1.33	1.37
11	X6	201	CYC	C4C-NC	-2.56	1.32	1.37
11	T7	1001	CYC	OB-C4B	2.56	1.28	1.23
11	I5	202	CYC	OB-C4B	2.56	1.28	1.23
11	M5	202	CYC	OB-C4B	2.56	1.28	1.23
11	P8	201	CYC	C4C-NC	-2.56	1.32	1.37
11	W7	1001	CYC	OB-C4B	2.56	1.28	1.23
11	M8	202	CYC	C1B-NB	-2.56	1.33	1.37
11	R7	1001	CYC	OB-C4B	2.56	1.28	1.23
11	Y7	1001	CYC	OB-C4B	2.56	1.28	1.23
11	I7	1001	CYC	OB-C4B	2.56	1.28	1.23
11	Z2	201	CYC	C1B-NB	-2.55	1.33	1.37
11	H6	201	CYC	C1B-NB	-2.55	1.33	1.37
11	K2	203	CYC	C1B-NB	-2.55	1.33	1.37
11	u3	1001	CYC	C4C-NC	-2.55	1.32	1.37
11	R3	1001	CYC	C4C-NC	-2.55	1.32	1.37
11	Z8	201	CYC	C4C-NC	-2.55	1.32	1.37
11	G3	1001	CYC	C4C-NC	-2.55	1.32	1.37
11	f3	1001	CYC	C4C-NC	-2.55	1.32	1.37
11	H7	1001	CYC	C4C-NC	-2.55	1.32	1.37
11	I8	201	CYC	C4C-NC	-2.55	1.32	1.37
11	E8	201	CYC	C4C-NC	-2.55	1.32	1.37
11	K4	201	CYC	C4C-NC	-2.55	1.32	1.37
11	M1	202	CYC	OB-C4B	2.55	1.28	1.23
11	V8	201	CYC	C4C-NC	-2.55	1.32	1.37
11	W6	201	CYC	C1B-NB	-2.55	1.33	1.37
11	R5	202	CYC	OB-C4B	2.55	1.28	1.23
11	X7	1001	CYC	C4C-NC	-2.55	1.32	1.37
11	U1	202	CYC	OB-C4B	2.55	1.28	1.23
11	X2	203	CYC	C1B-NB	-2.55	1.33	1.37
11	B6	201	CYC	C1B-NB	-2.55	1.33	1.37
11	g3	1001	CYC	OB-C4B	2.54	1.28	1.23
11	y3	1001	CYC	C4C-NC	-2.54	1.32	1.37
11	I4	201	CYC	C4C-NC	-2.54	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	G8	202	CYC	C4C-NC	-2.54	1.32	1.37
11	s3	1001	CYC	C4C-NC	-2.54	1.32	1.37
11	I3	1001	CYC	C4C-NC	-2.54	1.32	1.37
11	Z1	202	CYC	OB-C4B	2.54	1.28	1.23
11	b3	1001	CYC	C4C-NC	-2.54	1.32	1.37
11	M4	202	CYC	C4C-NC	-2.54	1.32	1.37
11	Z5	202	CYC	OB-C4B	2.54	1.28	1.23
11	K7	1001	CYC	OB-C4B	2.54	1.28	1.23
11	E2	203	CYC	C1B-NB	-2.54	1.33	1.37
11	X8	201	CYC	C4C-NC	-2.54	1.32	1.37
11	I1	202	CYC	OB-C4B	2.54	1.28	1.23
11	q3	1001	CYC	C4C-NC	-2.54	1.32	1.37
11	G4	202	CYC	C4C-NC	-2.54	1.32	1.37
11	N8	301	CYC	C4C-NC	-2.54	1.32	1.37
11	D7	1001	CYC	OB-C4B	2.54	1.28	1.23
11	P3	1001	CYC	C4C-NC	-2.54	1.32	1.37
11	M8	202	CYC	C4C-NC	-2.53	1.32	1.37
11	P1	202	CYC	OB-C4B	2.53	1.28	1.23
11	K3	1001	CYC	C4C-NC	-2.53	1.32	1.37
11	H2	201	CYC	C1B-NB	-2.53	1.33	1.37
11	N6	302	CYC	C1B-NB	-2.53	1.33	1.37
11	E4	201	CYC	C4C-NC	-2.53	1.32	1.37
11	R1	202	CYC	OB-C4B	2.53	1.28	1.23
11	X7	1001	CYC	C1B-NB	-2.53	1.33	1.37
11	A8	301	CYC	C4C-NC	-2.53	1.32	1.37
11	B2	201	CYC	C1B-NB	-2.53	1.33	1.37
11	P4	201	CYC	C4C-NC	-2.53	1.32	1.37
11	L7	1001	CYC	C1B-NB	-2.53	1.33	1.37
11	X3	1001	CYC	C4C-NC	-2.53	1.32	1.37
11	K1	202	CYC	OB-C4B	2.53	1.28	1.23
11	N4	301	CYC	C4C-NC	-2.53	1.32	1.37
11	T5	201	CYC	OB-C4B	2.53	1.28	1.23
11	W2	201	CYC	C1B-NB	-2.53	1.33	1.37
11	L7	1001	CYC	C4C-NC	-2.53	1.32	1.37
11	T8	201	CYC	C4C-NC	-2.53	1.32	1.37
11	03	901	CYC	OB-C4B	2.52	1.28	1.23
11	B7	1001	CYC	OB-C4B	2.52	1.28	1.23
11	V7	1001	CYC	C1B-NB	-2.52	1.33	1.37
11	X4	201	CYC	C4C-NC	-2.52	1.32	1.37
11	F6	201	CYC	C1B-NB	-2.52	1.33	1.37
11	G5	202	CYC	OB-C4B	2.52	1.28	1.23
11	Z4	201	CYC	C4C-NC	-2.52	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	V4	201	CYC	C4C-NC	-2.52	1.32	1.37
11	K5	202	CYC	OB-C4B	2.52	1.28	1.23
11	U5	202	CYC	OB-C4B	2.52	1.28	1.23
11	C1	201	CYC	OB-C4B	2.52	1.28	1.23
11	X1	202	CYC	OB-C4B	2.52	1.28	1.23
11	P5	202	CYC	OB-C4B	2.51	1.28	1.23
11	E7	1001	CYC	C1B-NB	-2.51	1.33	1.37
11	Z7	1001	CYC	C1B-NB	-2.51	1.33	1.37
11	T2	201	CYC	C1B-NB	-2.51	1.33	1.37
11	T1	201	CYC	OB-C4B	2.51	1.28	1.23
11	O6	201	CYC	C1B-NB	-2.50	1.33	1.37
11	C5	201	CYC	OB-C4B	2.50	1.28	1.23
11	D1	201	CYC	OB-C4B	2.50	1.28	1.23
11	G1	202	CYC	OB-C4B	2.50	1.28	1.23
11	H7	1001	CYC	C1B-NB	-2.50	1.33	1.37
11	V4	201	CYC	O1A-CGA	2.50	1.30	1.22
11	Q7	1001	CYC	C1B-NB	-2.50	1.33	1.37
11	V5	201	CYC	OB-C4B	2.49	1.28	1.23
11	G4	202	CYC	O1A-CGA	2.49	1.30	1.22
11	C7	1001	CYC	C1B-NB	-2.49	1.33	1.37
11	T4	201	CYC	C4C-NC	-2.49	1.32	1.37
11	A7	1001	CYC	C1B-NB	-2.49	1.33	1.37
11	O7	1001	CYC	C1B-NB	-2.49	1.33	1.37
11	X5	202	CYC	OB-C4B	2.48	1.28	1.23
11	T8	201	CYC	O1A-CGA	2.48	1.30	1.22
11	V8	201	CYC	O1A-CGA	2.48	1.30	1.22
11	A5	302	CYC	OB-C4B	2.48	1.28	1.23
11	G8	202	CYC	O1A-CGA	2.48	1.30	1.22
11	X1	201	CYC	OB-C4B	2.48	1.28	1.23
11	E4	203	CYC	C1B-NB	-2.48	1.33	1.37
11	P8	201	CYC	O1A-CGA	2.48	1.30	1.22
11	J7	1001	CYC	C1B-NB	-2.48	1.33	1.37
11	N4	301	CYC	O1A-CGA	2.48	1.30	1.22
11	Q5	201	CYC	O1A-CGA	2.48	1.30	1.22
11	K1	201	CYC	OB-C4B	2.48	1.28	1.23
11	A8	301	CYC	O1A-CGA	2.47	1.30	1.22
11	A1	302	CYC	OB-C4B	2.47	1.28	1.23
11	N8	301	CYC	O1A-CGA	2.47	1.30	1.22
11	H5	201	CYC	O1A-CGA	2.47	1.30	1.22
11	F1	201	CYC	O1A-CGA	2.47	1.30	1.22
11	U5	201	CYC	O1A-CGA	2.47	1.30	1.22
11	I8	201	CYC	O1A-CGA	2.47	1.30	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	C5	202	CYC	O1A-CGA	2.47	1.30	1.22
11	S7	1001	CYC	C1B-NB	-2.47	1.33	1.37
11	H1	201	CYC	O1A-CGA	2.47	1.30	1.22
11	R1	201	CYC	OB-C4B	2.47	1.28	1.23
11	G1	201	CYC	OB-C4B	2.47	1.28	1.23
11	M8	202	CYC	O1A-CGA	2.47	1.30	1.22
11	E8	201	CYC	O1A-CGA	2.47	1.30	1.22
11	L5	201	CYC	O1A-CGA	2.47	1.30	1.22
11	B1	201	CYC	O1A-CGA	2.47	1.30	1.22
11	S5	201	CYC	O1A-CGA	2.47	1.30	1.22
11	F5	201	CYC	O1A-CGA	2.47	1.30	1.22
11	A4	301	CYC	O1A-CGA	2.47	1.30	1.22
11	E4	201	CYC	O1A-CGA	2.47	1.30	1.22
11	X5	203	CYC	O1A-CGA	2.47	1.30	1.22
11	X8	201	CYC	O1A-CGA	2.46	1.30	1.22
11	S1	201	CYC	O1A-CGA	2.46	1.30	1.22
11	K4	201	CYC	O1A-CGA	2.46	1.30	1.22
11	Z8	201	CYC	O1A-CGA	2.46	1.30	1.22
11	V1	201	CYC	OB-C4B	2.46	1.28	1.23
11	U1	201	CYC	O1A-CGA	2.46	1.30	1.22
11	C1	202	CYC	O1A-CGA	2.46	1.30	1.22
11	Y7	1001	CYC	C1D-CHD	2.46	1.50	1.41
11	D5	201	CYC	OB-C4B	2.46	1.28	1.23
11	P4	201	CYC	O1A-CGA	2.46	1.30	1.22
11	P5	202	CYC	C4A-NA	2.46	1.42	1.36
11	I4	201	CYC	O1A-CGA	2.46	1.30	1.22
11	P1	202	CYC	C4A-NA	2.46	1.42	1.36
11	I7	1001	CYC	C1D-CHD	2.46	1.50	1.41
11	a7	1001	CYC	C1D-CHD	2.46	1.50	1.41
11	M3	201	CYC	C4C-NC	-2.46	1.32	1.37
11	O5	201	CYC	O1A-CGA	2.46	1.30	1.22
11	O1	201	CYC	O1A-CGA	2.46	1.30	1.22
11	V1	202	CYC	O1A-CGA	2.46	1.30	1.22
11	V5	202	CYC	CAD-C3D	-2.46	1.48	1.52
11	M4	202	CYC	O1A-CGA	2.46	1.30	1.22
11	J1	201	CYC	O1A-CGA	2.46	1.30	1.22
11	X4	201	CYC	O1A-CGA	2.45	1.30	1.22
11	U4	201	CYC	C1B-NB	-2.45	1.33	1.37
11	B5	201	CYC	O1A-CGA	2.45	1.30	1.22
11	U8	201	CYC	C1B-NB	-2.45	1.33	1.37
11	K8	201	CYC	O1A-CGA	2.45	1.30	1.22
11	F7	1001	CYC	C1D-CHD	2.45	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	X5	202	CYC	C4A-NA	2.45	1.42	1.36
11	T4	201	CYC	O1A-CGA	2.45	1.30	1.22
11	K5	201	CYC	OB-C4B	2.45	1.28	1.23
11	L1	201	CYC	O1A-CGA	2.45	1.30	1.22
11	X1	203	CYC	O1A-CGA	2.45	1.30	1.22
11	Q1	201	CYC	O1A-CGA	2.45	1.30	1.22
11	r3	1001	CYC	C4C-NC	-2.45	1.32	1.37
11	P1	201	CYC	OB-C4B	2.45	1.28	1.23
11	M5	201	CYC	OB-C4B	2.45	1.28	1.23
11	R5	201	CYC	OB-C4B	2.45	1.28	1.23
11	O4	201	CYC	C1B-NB	-2.45	1.33	1.37
11	S8	201	CYC	C1B-NB	-2.45	1.33	1.37
11	13	902	CYC	C4C-NC	-2.45	1.32	1.37
11	T5	201	CYC	C4A-NA	2.45	1.42	1.36
11	I1	201	CYC	OB-C4B	2.45	1.28	1.23
11	E8	203	CYC	C1B-NB	-2.45	1.33	1.37
11	O5	201	CYC	CAD-C3D	-2.44	1.48	1.52
11	S3	1001	CYC	C4C-NC	-2.44	1.32	1.37
11	R1	201	CYC	C1D-CHD	2.44	1.50	1.41
11	B7	1001	CYC	C1D-CHD	2.44	1.50	1.41
11	T7	1001	CYC	C1D-CHD	2.44	1.50	1.41
11	X5	201	CYC	OB-C4B	2.44	1.28	1.23
11	Y8	201	CYC	C1B-NB	-2.44	1.33	1.37
11	M1	201	CYC	OB-C4B	2.44	1.28	1.23
11	H3	1001	CYC	C4C-NC	-2.44	1.32	1.37
11	l3	1001	CYC	C4C-NC	-2.44	1.32	1.37
11	V1	202	CYC	CAD-C3D	-2.44	1.48	1.52
11	M5	201	CYC	C1D-CHD	2.44	1.50	1.41
11	V5	202	CYC	O1A-CGA	2.44	1.30	1.22
11	R5	201	CYC	C1D-CHD	2.44	1.50	1.41
11	T1	201	CYC	C4A-NA	2.44	1.42	1.36
11	Z4	201	CYC	O1A-CGA	2.44	1.30	1.22
11	X5	201	CYC	C1D-CHD	2.44	1.50	1.41
11	I5	202	CYC	C4A-NA	2.44	1.42	1.36
11	G5	201	CYC	OB-C4B	2.44	1.28	1.23
11	A5	302	CYC	C1D-CHD	2.44	1.50	1.41
11	e3	1001	CYC	C4C-NC	-2.44	1.32	1.37
11	j3	1001	CYC	C4C-NC	-2.44	1.32	1.37
11	B5	201	CYC	CAD-C3D	-2.44	1.48	1.52
11	M1	201	CYC	C1D-CHD	2.44	1.50	1.41
11	V5	201	CYC	C4A-C3A	2.44	1.51	1.45
11	Y4	201	CYC	C1B-NB	-2.44	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	P5	201	CYC	C1D-CHD	2.44	1.50	1.41
11	Z1	201	CYC	C1D-CHD	2.44	1.50	1.41
11	Z1	201	CYC	OB-C4B	2.44	1.28	1.23
11	I5	201	CYC	OB-C4B	2.44	1.28	1.23
11	S1	201	CYC	CAD-C3D	-2.43	1.48	1.52
11	D7	1001	CYC	C1D-CHD	2.43	1.50	1.41
11	K7	1001	CYC	C1D-CHD	2.43	1.50	1.41
11	Z5	202	CYC	C4A-NA	2.43	1.42	1.36
11	X1	201	CYC	C1D-CHD	2.43	1.50	1.41
11	K1	201	CYC	C1D-CHD	2.43	1.50	1.41
11	M7	1001	CYC	C1D-CHD	2.43	1.50	1.41
11	03	902	CYC	C4C-NC	-2.43	1.32	1.37
11	H5	201	CYC	CAD-C3D	-2.43	1.48	1.52
11	J5	201	CYC	O1A-CGA	2.43	1.30	1.22
11	W7	1001	CYC	C1D-CHD	2.43	1.50	1.41
11	M1	202	CYC	C4A-NA	2.43	1.42	1.36
11	K5	201	CYC	C1D-CHD	2.43	1.50	1.41
11	N5	301	CYC	OB-C4B	2.43	1.28	1.23
11	G5	201	CYC	C1D-CHD	2.43	1.50	1.41
11	O1	201	CYC	CAD-C3D	-2.43	1.48	1.52
11	I4	203	CYC	C1B-NB	-2.43	1.33	1.37
11	R1	202	CYC	C4A-NA	2.43	1.42	1.36
11	R5	202	CYC	C4A-NA	2.43	1.42	1.36
11	N1	301	CYC	OB-C4B	2.43	1.28	1.23
11	X1	202	CYC	C4A-NA	2.43	1.42	1.36
11	P1	201	CYC	C1D-CHD	2.43	1.50	1.41
11	P7	1001	CYC	C1D-CHD	2.43	1.50	1.41
11	O8	201	CYC	C1B-NB	-2.43	1.33	1.37
11	A1	301	CYC	OB-C4B	2.43	1.28	1.23
11	J6	201	CYC	OB-C4B	2.43	1.28	1.23
11	W6	201	CYC	OB-C4B	2.43	1.28	1.23
11	Z5	201	CYC	C1D-CHD	2.43	1.50	1.41
11	R7	1001	CYC	C1D-CHD	2.43	1.50	1.41
11	W4	201	CYC	C1B-NB	-2.43	1.33	1.37
11	I8	203	CYC	C1B-NB	-2.43	1.33	1.37
11	L8	201	CYC	C1B-NB	-2.43	1.33	1.37
11	n3	1001	CYC	C4C-NC	-2.43	1.32	1.37
11	W3	1001	CYC	C4C-NC	-2.43	1.32	1.37
11	S4	201	CYC	C1B-NB	-2.43	1.33	1.37
11	O3	1001	CYC	OB-C4B	2.43	1.28	1.23
11	G1	201	CYC	C1D-CHD	2.43	1.50	1.41
11	L5	201	CYC	CAD-C3D	-2.43	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	v3	1001	CYC	C4C-NC	-2.43	1.32	1.37
11	V1	201	CYC	C1D-CHD	2.42	1.50	1.41
11	V5	201	CYC	C1D-CHD	2.42	1.50	1.41
11	z3	1001	CYC	C4C-NC	-2.42	1.32	1.37
11	F1	201	CYC	CAD-C3D	-2.42	1.48	1.52
11	L1	201	CYC	CAD-C3D	-2.42	1.48	1.52
11	A1	301	CYC	C1D-CHD	2.42	1.50	1.41
11	A1	302	CYC	C1D-CHD	2.42	1.50	1.41
11	I1	201	CYC	C1D-CHD	2.42	1.50	1.41
11	R6	202	CYC	OB-C4B	2.42	1.28	1.23
11	B1	201	CYC	CAD-C3D	-2.42	1.48	1.52
11	X1	203	CYC	CAD-C3D	-2.42	1.48	1.52
11	I1	202	CYC	C4A-NA	2.42	1.42	1.36
11	J1	201	CYC	CAD-C3D	-2.42	1.48	1.52
11	p3	1001	CYC	C4C-NC	-2.42	1.32	1.37
11	K1	202	CYC	C4A-NA	2.42	1.42	1.36
11	U5	202	CYC	C4A-NA	2.42	1.42	1.36
11	N5	301	CYC	C1D-CHD	2.42	1.50	1.41
11	S2	201	CYC	OB-C4B	2.42	1.28	1.23
11	A5	302	CYC	C4A-C3A	2.42	1.51	1.45
11	13	904	CYC	C4C-NC	-2.42	1.32	1.37
11	M8	201	CYC	C1B-NB	-2.42	1.33	1.37
11	G1	202	CYC	C4A-NA	2.42	1.42	1.36
11	I5	201	CYC	C1D-CHD	2.42	1.50	1.41
11	13	903	CYC	C4C-NC	-2.42	1.32	1.37
11	x3	1001	CYC	C4C-NC	-2.42	1.32	1.37
11	I4	203	CYC	C4C-NC	-2.42	1.32	1.37
11	H3	1001	CYC	OB-C4B	2.42	1.28	1.23
11	W8	201	CYC	C1B-NB	-2.42	1.33	1.37
11	G5	201	CYC	C4A-C3A	2.41	1.51	1.45
11	K5	202	CYC	C4A-NA	2.41	1.42	1.36
11	S5	201	CYC	CAD-C3D	-2.41	1.48	1.52
11	M5	202	CYC	C4A-NA	2.41	1.42	1.36
11	U1	201	CYC	CAD-C3D	-2.41	1.48	1.52
11	J5	201	CYC	CAD-C3D	-2.41	1.48	1.52
11	U1	202	CYC	C4A-NA	2.41	1.42	1.36
11	W2	201	CYC	OB-C4B	2.41	1.28	1.23
11	t3	1001	CYC	C4C-NC	-2.41	1.32	1.37
11	Z1	202	CYC	C4A-NA	2.41	1.42	1.36
11	A5	301	CYC	C1D-CHD	2.41	1.50	1.41
11	N1	301	CYC	C1D-CHD	2.41	1.50	1.41
11	V1	201	CYC	C4A-C3A	2.41	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	C1	201	CYC	C4A-NA	2.41	1.42	1.36
11	S3	1001	CYC	OB-C4B	2.41	1.28	1.23
11	L4	201	CYC	C1B-NB	-2.41	1.33	1.37
11	Y8	201	CYC	C4C-NC	-2.41	1.32	1.37
11	C1	202	CYC	CAD-C3D	-2.41	1.48	1.52
11	c3	1001	CYC	C4C-NC	-2.41	1.32	1.37
11	N6	302	CYC	C4A-C3A	2.41	1.51	1.45
11	P5	201	CYC	OB-C4B	2.41	1.28	1.23
11	V6	201	CYC	C4A-C3A	2.41	1.51	1.45
11	O3	1001	CYC	C4C-NC	-2.41	1.32	1.37
11	D1	201	CYC	C4A-NA	2.40	1.42	1.36
11	m3	201	CYC	C1D-CHD	2.40	1.50	1.41
11	U5	201	CYC	CAD-C3D	-2.40	1.48	1.52
11	Y4	201	CYC	C4C-NC	-2.40	1.32	1.37
11	j3	1001	CYC	OB-C4B	2.40	1.28	1.23
11	G1	201	CYC	C4A-C3A	2.40	1.51	1.45
11	G5	202	CYC	C4A-NA	2.40	1.42	1.36
11	I2	203	CYC	OB-C4B	2.40	1.28	1.23
11	Z5	201	CYC	OB-C4B	2.40	1.28	1.23
11	N1	301	CYC	C4A-C3A	2.40	1.51	1.45
11	V2	201	CYC	C4A-C3A	2.40	1.51	1.45
11	X5	201	CYC	C4A-C3A	2.40	1.51	1.45
11	13	902	CYC	OB-C4B	2.40	1.28	1.23
11	A1	302	CYC	C4A-C3A	2.40	1.51	1.45
11	H1	201	CYC	CAD-C3D	-2.40	1.48	1.52
11	M4	201	CYC	C1B-NB	-2.40	1.33	1.37
11	P4	203	CYC	C4C-NC	-2.40	1.32	1.37
11	F5	201	CYC	CAD-C3D	-2.40	1.48	1.52
11	D5	201	CYC	C4A-NA	2.40	1.42	1.36
11	Q1	201	CYC	CAD-C3D	-2.40	1.48	1.52
11	P4	203	CYC	C1B-NB	-2.40	1.33	1.37
11	G8	201	CYC	C1B-NB	-2.40	1.33	1.37
11	X1	201	CYC	C4A-C3A	2.39	1.51	1.45
11	L6	201	CYC	OB-C4B	2.39	1.28	1.23
11	P1	201	CYC	C4A-C3A	2.39	1.51	1.45
11	N2	301	CYC	C4A-C3A	2.39	1.51	1.45
11	N6	301	CYC	C4A-C3A	2.39	1.51	1.45
11	I6	201	CYC	C4A-C3A	2.39	1.51	1.45
11	C5	202	CYC	CAD-C3D	-2.39	1.48	1.52
11	C2	201	CYC	C4A-C3A	2.39	1.51	1.45
11	L8	201	CYC	C4C-NC	-2.39	1.32	1.37
11	C5	201	CYC	C4A-NA	2.39	1.42	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	Z7	1001	CYC	C4B-NB	-2.39	1.32	1.38
11	I8	203	CYC	C4C-NC	-2.39	1.32	1.37
11	B6	201	CYC	OB-C4B	2.39	1.28	1.23
11	V3	201	CYC	C1D-CHD	2.39	1.50	1.41
11	U3	1001	CYC	C4C-NC	-2.39	1.32	1.37
11	N2	302	CYC	C4A-C3A	2.39	1.51	1.45
11	Q5	201	CYC	CAD-C3D	-2.39	1.48	1.52
11	C7	1001	CYC	C4B-NB	-2.39	1.32	1.38
11	H2	201	CYC	OB-C4B	2.39	1.28	1.23
11	P8	203	CYC	C1B-NB	-2.39	1.33	1.37
11	A5	301	CYC	C4A-C3A	2.38	1.51	1.45
11	G8	201	CYC	C4C-NC	-2.38	1.32	1.37
11	13	903	CYC	OB-C4B	2.38	1.28	1.23
11	I2	201	CYC	C4A-C3A	2.38	1.50	1.45
11	B2	201	CYC	OB-C4B	2.38	1.28	1.23
11	P5	201	CYC	C4A-C3A	2.38	1.50	1.45
11	P6	201	CYC	C4A-C3A	2.38	1.50	1.45
11	J3	201	CYC	C4C-NC	-2.38	1.32	1.37
11	P8	203	CYC	C4C-NC	-2.38	1.32	1.37
11	A5	301	CYC	OB-C4B	2.38	1.28	1.23
11	W8	201	CYC	C4C-NC	-2.38	1.32	1.37
11	H6	201	CYC	OB-C4B	2.38	1.28	1.23
11	N6	301	CYC	C1D-CHD	2.38	1.50	1.41
11	P2	201	CYC	C4A-C3A	2.38	1.50	1.45
11	X2	201	CYC	C4A-C3A	2.38	1.50	1.45
11	D4	201	CYC	C1B-NB	-2.38	1.33	1.37
11	S8	201	CYC	C4C-NC	-2.38	1.32	1.37
11	G4	201	CYC	C4C-NC	-2.38	1.32	1.37
11	p3	1001	CYC	OB-C4B	2.38	1.28	1.23
11	U3	1001	CYC	OB-C4B	2.37	1.28	1.23
11	N5	301	CYC	C4A-C3A	2.37	1.50	1.45
11	G4	201	CYC	C1B-NB	-2.37	1.33	1.37
11	U8	201	CYC	C4C-NC	-2.37	1.32	1.37
11	M4	201	CYC	C4C-NC	-2.37	1.32	1.37
11	H7	1001	CYC	C4B-NB	-2.37	1.33	1.38
11	M3	201	CYC	OB-C4B	2.37	1.28	1.23
11	D8	201	CYC	C1B-NB	-2.37	1.33	1.37
11	S7	1001	CYC	C4B-NB	-2.37	1.33	1.38
11	V7	1001	CYC	C4B-NB	-2.37	1.33	1.38
11	U4	201	CYC	C4C-NC	-2.37	1.32	1.37
11	L4	201	CYC	C4C-NC	-2.37	1.32	1.37
11	N2	301	CYC	C1D-CHD	2.37	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	K2	203	CYC	OB-C4B	2.37	1.28	1.23
11	M1	201	CYC	C4A-C3A	2.37	1.50	1.45
11	X6	201	CYC	C4A-C3A	2.37	1.50	1.45
11	E4	203	CYC	C4C-NC	-2.37	1.32	1.37
11	E6	201	CYC	C4A-C3A	2.37	1.50	1.45
11	E7	1001	CYC	C4B-NB	-2.37	1.33	1.38
11	L7	1001	CYC	C4B-NB	-2.37	1.33	1.38
11	Q7	1001	CYC	C4B-NB	-2.37	1.33	1.38
11	v3	1001	CYC	OB-C4B	2.37	1.28	1.23
11	W3	1001	CYC	OB-C4B	2.36	1.28	1.23
11	E2	201	CYC	C4A-C3A	2.36	1.50	1.45
11	A7	1001	CYC	C4B-NB	-2.36	1.33	1.38
11	A2	301	CYC	C4A-C3A	2.36	1.50	1.45
11	n3	1001	CYC	OB-C4B	2.36	1.28	1.23
11	Z6	201	CYC	C4A-C3A	2.36	1.50	1.45
11	A1	301	CYC	C4A-C3A	2.36	1.50	1.45
11	Z2	202	CYC	C4A-C3A	2.36	1.50	1.45
11	W4	201	CYC	C4C-NC	-2.36	1.32	1.37
11	C6	203	CYC	OB-C4B	2.36	1.28	1.23
11	C6	201	CYC	C4A-C3A	2.36	1.50	1.45
11	K6	201	CYC	C4A-C3A	2.36	1.50	1.45
11	V6	201	CYC	C1D-CHD	2.36	1.50	1.41
11	I6	201	CYC	C1D-CHD	2.36	1.50	1.41
11	P2	201	CYC	C1D-CHD	2.36	1.50	1.41
11	R1	201	CYC	C4A-C3A	2.36	1.50	1.45
11	K2	201	CYC	C4A-C3A	2.36	1.50	1.45
11	T2	201	CYC	OB-C4B	2.36	1.28	1.23
11	I2	201	CYC	C1D-CHD	2.36	1.50	1.41
11	X5	203	CYC	CAD-C3D	-2.36	1.48	1.52
11	O7	1001	CYC	C4B-NB	-2.36	1.33	1.38
11	S4	201	CYC	C4C-NC	-2.36	1.32	1.37
11	D8	201	CYC	C4C-NC	-2.36	1.32	1.37
11	P6	201	CYC	C1D-CHD	2.36	1.50	1.41
11	K1	201	CYC	C4A-C3A	2.36	1.50	1.45
11	X2	203	CYC	OB-C4B	2.36	1.28	1.23
11	O6	201	CYC	OB-C4B	2.36	1.28	1.23
11	Z5	201	CYC	C4A-C3A	2.36	1.50	1.45
11	A6	301	CYC	C4A-C3A	2.35	1.50	1.45
11	M8	201	CYC	C4C-NC	-2.35	1.32	1.37
11	D2	201	CYC	OB-C4B	2.35	1.28	1.23
11	I1	201	CYC	C4A-C3A	2.35	1.50	1.45
11	P7	1001	CYC	C1C-NC	-2.35	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	S7	1001	CYC	OB-C4B	2.35	1.28	1.23
11	t3	1001	CYC	OB-C4B	2.35	1.28	1.23
11	Y6	201	CYC	OB-C4B	2.35	1.28	1.23
11	r3	1001	CYC	OB-C4B	2.35	1.28	1.23
11	E8	203	CYC	C4C-NC	-2.35	1.32	1.37
11	O8	201	CYC	C4C-NC	-2.35	1.32	1.37
11	X7	1001	CYC	C4B-NB	-2.35	1.33	1.38
11	Z1	201	CYC	C4A-C3A	2.35	1.50	1.45
11	X6	201	CYC	C1D-CHD	2.35	1.50	1.41
11	13	904	CYC	OB-C4B	2.35	1.28	1.23
11	K2	201	CYC	C1D-CHD	2.35	1.50	1.41
11	J3	201	CYC	OB-C4B	2.35	1.28	1.23
11	M6	201	CYC	C4A-C3A	2.35	1.50	1.45
11	Q2	201	CYC	OB-C4B	2.35	1.28	1.23
11	Z6	201	CYC	C1D-CHD	2.35	1.50	1.41
11	x3	1001	CYC	OB-C4B	2.35	1.28	1.23
11	C6	201	CYC	C1D-CHD	2.35	1.50	1.41
11	E6	201	CYC	C1D-CHD	2.35	1.50	1.41
11	E2	201	CYC	C1D-CHD	2.35	1.50	1.41
11	K5	201	CYC	C4A-C3A	2.35	1.50	1.45
11	z3	1001	CYC	OB-C4B	2.35	1.28	1.23
11	Q6	201	CYC	OB-C4B	2.35	1.28	1.23
11	I5	201	CYC	C4A-C3A	2.34	1.50	1.45
11	M2	201	CYC	C1D-CHD	2.34	1.50	1.41
11	03	902	CYC	OB-C4B	2.34	1.28	1.23
11	F6	201	CYC	OB-C4B	2.34	1.28	1.23
11	E7	1001	CYC	OB-C4B	2.34	1.28	1.23
11	E2	203	CYC	OB-C4B	2.34	1.28	1.23
11	N2	302	CYC	C1D-CHD	2.34	1.50	1.41
11	M7	1001	CYC	C1C-NC	-2.34	1.34	1.37
11	Z2	201	CYC	OB-C4B	2.34	1.28	1.23
11	J7	1001	CYC	C4B-NB	-2.34	1.33	1.38
11	C2	201	CYC	C1D-CHD	2.34	1.50	1.41
11	y3	1001	CYC	C1D-CHD	2.34	1.50	1.41
11	l3	1001	CYC	OB-C4B	2.34	1.28	1.23
11	K6	201	CYC	C1D-CHD	2.34	1.50	1.41
11	V2	201	CYC	C1D-CHD	2.34	1.50	1.41
11	Z2	202	CYC	C1D-CHD	2.34	1.50	1.41
11	M2	201	CYC	C4A-C3A	2.34	1.50	1.45
11	V7	1001	CYC	OB-C4B	2.34	1.28	1.23
11	X2	201	CYC	C1D-CHD	2.34	1.50	1.41
11	A6	301	CYC	C1D-CHD	2.34	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	M6	201	CYC	C1D-CHD	2.34	1.50	1.41
11	R5	201	CYC	C4A-C3A	2.33	1.50	1.45
11	c3	1001	CYC	OB-C4B	2.33	1.28	1.23
11	A2	301	CYC	C1D-CHD	2.33	1.50	1.41
11	L7	1001	CYC	OB-C4B	2.33	1.28	1.23
11	E4	203	CYC	C2C-C1C	-2.33	1.50	1.52
11	U6	201	CYC	OB-C4B	2.33	1.28	1.23
11	N6	302	CYC	C1D-CHD	2.33	1.50	1.41
11	W6	201	CYC	C4C-NC	-2.33	1.32	1.37
11	Q7	1001	CYC	OB-C4B	2.33	1.28	1.23
11	W7	1001	CYC	C1C-NC	-2.33	1.34	1.37
11	T3	1001	CYC	C1D-CHD	2.33	1.50	1.41
11	G3	1001	CYC	C1D-CHD	2.33	1.50	1.41
11	O7	1001	CYC	OB-C4B	2.33	1.28	1.23
11	C7	1001	CYC	OB-C4B	2.33	1.28	1.23
11	M3	201	CYC	C1B-NB	-2.33	1.33	1.37
11	D4	201	CYC	C4C-NC	-2.33	1.32	1.37
11	M5	201	CYC	C4A-C3A	2.33	1.50	1.45
11	O4	201	CYC	C4C-NC	-2.33	1.32	1.37
11	r3	1001	CYC	C1B-NB	-2.33	1.33	1.37
11	B7	1001	CYC	C1C-NC	-2.33	1.34	1.37
11	w3	1001	CYC	C1D-CHD	2.33	1.50	1.41
11	k3	1001	CYC	C1D-CHD	2.33	1.50	1.41
11	i3	1001	CYC	C1D-CHD	2.32	1.50	1.41
11	N3	1001	CYC	C1D-CHD	2.32	1.50	1.41
11	e3	1001	CYC	OB-C4B	2.32	1.28	1.23
11	m3	201	CYC	C1B-C2B	2.32	1.49	1.45
11	u3	1001	CYC	C1D-CHD	2.32	1.50	1.41
11	b3	1001	CYC	C1D-CHD	2.32	1.50	1.41
11	s3	1001	CYC	C1D-CHD	2.32	1.50	1.41
11	P5	201	CYC	C1B-C2B	2.32	1.49	1.45
11	I3	1001	CYC	C1D-CHD	2.32	1.50	1.41
11	d3	1001	CYC	C1D-CHD	2.32	1.50	1.41
11	I2	203	CYC	C4C-NC	-2.32	1.32	1.37
11	T7	1001	CYC	C1C-NC	-2.32	1.34	1.37
11	X3	1001	CYC	C1D-CHD	2.32	1.50	1.41
11	Z3	1001	CYC	C1D-CHD	2.32	1.50	1.41
11	P3	1001	CYC	C1D-CHD	2.32	1.50	1.41
11	U1	201	CYC	C1B-NB	-2.32	1.33	1.37
11	H7	1001	CYC	OB-C4B	2.32	1.28	1.23
11	K3	1001	CYC	C1D-CHD	2.32	1.50	1.41
11	S5	201	CYC	C1B-NB	-2.31	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	q3	1001	CYC	C1D-CHD	2.31	1.50	1.41
11	X7	1001	CYC	OB-C4B	2.31	1.28	1.23
11	R3	1001	CYC	C1D-CHD	2.31	1.50	1.41
11	H5	201	CYC	C1B-NB	-2.31	1.33	1.37
11	o3	1001	CYC	C1D-CHD	2.31	1.50	1.41
11	Z7	1001	CYC	OB-C4B	2.31	1.28	1.23
11	V3	201	CYC	C1B-C2B	2.31	1.49	1.45
11	H2	201	CYC	C4C-NC	-2.31	1.32	1.37
11	V5	202	CYC	C1B-NB	-2.31	1.33	1.37
11	V1	202	CYC	C1B-NB	-2.31	1.33	1.37
11	03	902	CYC	C1B-NB	-2.30	1.33	1.37
11	C6	203	CYC	C4C-NC	-2.30	1.32	1.37
11	x3	1001	CYC	C1B-NB	-2.30	1.33	1.37
11	X2	203	CYC	C4C-NC	-2.30	1.32	1.37
11	R6	202	CYC	C4C-NC	-2.30	1.32	1.37
11	Z2	201	CYC	C4C-NC	-2.30	1.32	1.37
11	j3	1001	CYC	C1B-NB	-2.30	1.34	1.37
11	P1	201	CYC	C1B-C2B	2.30	1.49	1.45
11	S2	201	CYC	C4C-NC	-2.30	1.32	1.37
11	J6	201	CYC	C4C-NC	-2.30	1.32	1.37
11	W2	201	CYC	C4C-NC	-2.30	1.32	1.37
11	R7	1001	CYC	C1C-NC	-2.30	1.34	1.37
11	S1	201	CYC	C1B-NB	-2.30	1.34	1.37
11	W3	1001	CYC	C1B-NB	-2.30	1.34	1.37
11	L5	201	CYC	C1B-NB	-2.30	1.34	1.37
11	J7	1001	CYC	OB-C4B	2.30	1.28	1.23
11	X5	201	CYC	C1B-C2B	2.30	1.49	1.45
11	O6	201	CYC	C4C-NC	-2.29	1.32	1.37
11	D2	201	CYC	C4C-NC	-2.29	1.32	1.37
11	I7	1001	CYC	C1C-NC	-2.29	1.34	1.37
11	A7	1001	CYC	OB-C4B	2.29	1.27	1.23
11	q3	1001	CYC	C4D-CHA	2.29	1.50	1.41
11	G5	201	CYC	C4B-NB	-2.29	1.33	1.38
11	i3	1001	CYC	C4D-CHA	2.29	1.50	1.41
11	H6	201	CYC	C4C-NC	-2.29	1.32	1.37
11	d3	1001	CYC	C4D-CHA	2.29	1.50	1.41
11	K2	203	CYC	C4C-NC	-2.29	1.32	1.37
11	U6	201	CYC	C4C-NC	-2.29	1.32	1.37
11	f3	1001	CYC	C1D-CHD	2.29	1.50	1.41
11	S3	1001	CYC	C1B-NB	-2.29	1.34	1.37
11	y3	1001	CYC	C4D-CHA	2.29	1.50	1.41
11	V5	201	CYC	C4B-NB	-2.29	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	o3	1001	CYC	C4D-CHA	2.29	1.50	1.41
11	M5	201	CYC	C1B-C2B	2.29	1.49	1.45
11	K1	201	CYC	C4B-NB	-2.29	1.33	1.38
11	c3	1001	CYC	C1B-NB	-2.29	1.34	1.37
11	o3	1001	CYC	C1B-NB	-2.29	1.34	1.37
11	w3	1001	CYC	C1B-NB	-2.29	1.34	1.37
11	H3	1001	CYC	C1B-NB	-2.29	1.34	1.37
11	U3	1001	CYC	C1B-NB	-2.29	1.34	1.37
11	N3	1001	CYC	C4D-CHA	2.28	1.50	1.41
11	Q2	201	CYC	C4C-NC	-2.28	1.32	1.37
11	X1	201	CYC	C1B-C2B	2.28	1.49	1.45
11	w3	1001	CYC	C4D-CHA	2.28	1.50	1.41
11	E2	203	CYC	C4C-NC	-2.28	1.32	1.37
11	s3	1001	CYC	C4D-CHA	2.28	1.50	1.41
11	C1	202	CYC	C1B-NB	-2.28	1.34	1.37
11	K3	1001	CYC	C4D-CHA	2.28	1.50	1.41
11	B2	201	CYC	C4C-NC	-2.28	1.32	1.37
11	T3	1001	CYC	C4D-CHA	2.28	1.50	1.41
11	U5	201	CYC	C1B-NB	-2.28	1.34	1.37
11	t3	1001	CYC	C1B-NB	-2.28	1.34	1.37
11	G3	1001	CYC	C4D-CHA	2.28	1.50	1.41
11	M1	201	CYC	C1B-C2B	2.28	1.49	1.45
11	u3	1001	CYC	C4D-CHA	2.28	1.50	1.41
11	T2	201	CYC	C4C-NC	-2.28	1.32	1.37
11	X3	1001	CYC	C1B-NB	-2.28	1.34	1.37
11	V1	201	CYC	C4B-NB	-2.28	1.33	1.38
11	Q3	1001	CYC	C1B-C2B	2.28	1.49	1.45
11	k3	1001	CYC	C4D-CHA	2.28	1.49	1.41
11	L6	201	CYC	C4C-NC	-2.28	1.32	1.37
11	J1	201	CYC	C1B-NB	-2.28	1.34	1.37
11	X1	203	CYC	C1B-NB	-2.28	1.34	1.37
11	w3	1001	CYC	C1A-NA	-2.28	1.33	1.38
11	N1	301	CYC	C1B-C2B	2.28	1.49	1.45
11	K7	1001	CYC	C1C-NC	-2.28	1.34	1.37
11	A5	302	CYC	C4B-NB	-2.28	1.33	1.38
11	Q6	201	CYC	C4C-NC	-2.28	1.32	1.37
11	f3	1001	CYC	C4D-CHA	2.28	1.49	1.41
11	b3	1001	CYC	C4D-CHA	2.27	1.49	1.41
11	R3	1001	CYC	C1B-NB	-2.27	1.34	1.37
11	Z3	1001	CYC	C1B-NB	-2.27	1.34	1.37
11	p3	1001	CYC	C1B-NB	-2.27	1.34	1.37
11	J5	201	CYC	C1B-NB	-2.27	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	Q5	201	CYC	C1B-NB	-2.27	1.34	1.37
11	R1	201	CYC	C4B-NB	-2.27	1.33	1.38
11	I3	1001	CYC	C4D-CHA	2.27	1.49	1.41
11	Q1	201	CYC	C1B-NB	-2.27	1.34	1.37
11	G5	201	CYC	C1B-C2B	2.27	1.49	1.45
11	B1	201	CYC	C1B-NB	-2.27	1.34	1.37
11	s3	1001	CYC	C1B-NB	-2.27	1.34	1.37
11	R3	1001	CYC	C4D-CHA	2.27	1.49	1.41
11	G1	201	CYC	C4B-NB	-2.27	1.33	1.38
11	X1	201	CYC	C4B-NB	-2.27	1.33	1.38
11	I3	1001	CYC	C1A-NA	-2.27	1.33	1.38
11	P1	201	CYC	C4B-NB	-2.27	1.33	1.38
11	I1	201	CYC	C1B-C2B	2.27	1.49	1.45
11	P3	1001	CYC	C4D-CHA	2.27	1.49	1.41
11	g3	1001	CYC	C1B-C2B	2.27	1.49	1.45
11	u3	1001	CYC	C1B-NB	-2.27	1.34	1.37
11	C5	202	CYC	C1B-NB	-2.27	1.34	1.37
11	H1	201	CYC	C1B-NB	-2.27	1.34	1.37
11	X3	1001	CYC	C4D-CHA	2.27	1.49	1.41
11	D7	1001	CYC	C1C-NC	-2.27	1.34	1.37
11	X5	203	CYC	C1B-NB	-2.27	1.34	1.37
11	f3	1001	CYC	C1B-NB	-2.27	1.34	1.37
11	A5	301	CYC	C1B-C2B	2.27	1.49	1.45
11	I3	1001	CYC	C1B-NB	-2.27	1.34	1.37
11	n3	1001	CYC	C1B-NB	-2.26	1.34	1.37
11	R3	1001	CYC	C1A-NA	-2.26	1.33	1.38
11	Z3	1001	CYC	C4D-CHA	2.26	1.49	1.41
11	G1	201	CYC	C1B-C2B	2.26	1.49	1.45
11	N5	301	CYC	C1B-C2B	2.26	1.49	1.45
11	13	903	CYC	C1B-NB	-2.26	1.34	1.37
11	O3	1001	CYC	C1B-NB	-2.26	1.34	1.37
11	y3	1001	CYC	C1A-NA	-2.26	1.33	1.38
11	N5	301	CYC	C4B-NB	-2.26	1.33	1.38
11	Z1	201	CYC	C4B-NB	-2.26	1.33	1.38
11	Y6	201	CYC	C4C-NC	-2.26	1.32	1.37
11	A1	302	CYC	C4B-NB	-2.26	1.33	1.38
11	L1	201	CYC	C1B-NB	-2.26	1.34	1.37
11	B6	201	CYC	C4C-NC	-2.26	1.32	1.37
11	K5	201	CYC	C4B-NB	-2.26	1.33	1.38
11	M5	201	CYC	C4B-NB	-2.26	1.33	1.38
11	I5	201	CYC	C4B-NB	-2.26	1.33	1.38
11	N3	1001	CYC	C1A-NA	-2.26	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	F6	201	CYC	C4C-NC	-2.25	1.32	1.37
11	F7	1001	CYC	C1C-NC	-2.25	1.34	1.37
11	b3	1001	CYC	C1B-NB	-2.25	1.34	1.37
11	j3	1001	CYC	C1A-NA	-2.25	1.33	1.38
11	P3	1001	CYC	C1B-NB	-2.25	1.34	1.37
11	a7	1001	CYC	C1C-NC	-2.25	1.34	1.37
11	X3	1001	CYC	C1A-NA	-2.25	1.33	1.38
11	I1	201	CYC	C4B-NB	-2.25	1.33	1.38
11	M1	201	CYC	C4B-NB	-2.25	1.33	1.38
11	K1	201	CYC	C1B-C2B	2.25	1.49	1.45
11	g3	1001	CYC	C1D-CHD	2.25	1.49	1.41
11	13	903	CYC	C1A-NA	-2.25	1.33	1.38
11	R5	201	CYC	C4B-NB	-2.25	1.33	1.38
11	Q3	1001	CYC	C1D-CHD	2.25	1.49	1.41
11	z3	1001	CYC	C1B-NB	-2.25	1.34	1.37
11	s3	1001	CYC	C1A-NA	-2.25	1.33	1.38
11	S3	1001	CYC	C1A-NA	-2.25	1.33	1.38
11	F1	201	CYC	C1B-NB	-2.25	1.34	1.37
11	K3	1001	CYC	C1B-NB	-2.25	1.34	1.37
11	Z3	1001	CYC	C1A-NA	-2.25	1.33	1.38
11	r3	1001	CYC	C1A-NA	-2.25	1.33	1.38
11	13	902	CYC	C1B-NB	-2.25	1.34	1.37
11	v3	1001	CYC	C1B-NB	-2.25	1.34	1.37
11	L5	201	CYC	C1B-C2B	2.25	1.49	1.45
11	g3	1001	CYC	C4C-NC	-2.25	1.32	1.37
11	n3	1001	CYC	C1A-NA	-2.25	1.33	1.38
11	Q3	1001	CYC	C4C-NC	-2.25	1.32	1.37
11	Y4	201	CYC	C2C-C1C	-2.25	1.50	1.52
11	l3	1001	CYC	C1B-NB	-2.25	1.34	1.37
11	Y7	1001	CYC	C1C-NC	-2.25	1.34	1.37
11	A1	302	CYC	C1B-C2B	2.25	1.49	1.45
11	i3	1001	CYC	C1A-NA	-2.25	1.33	1.38
11	u3	1001	CYC	C1A-NA	-2.25	1.33	1.38
11	Z5	201	CYC	C4B-NB	-2.24	1.33	1.38
11	N3	1001	CYC	C1B-NB	-2.24	1.34	1.37
11	P5	201	CYC	C4B-NB	-2.24	1.33	1.38
11	K3	1001	CYC	C1A-NA	-2.24	1.33	1.38
11	V1	201	CYC	C1B-C2B	2.24	1.49	1.45
11	q3	1001	CYC	C1B-NB	-2.24	1.34	1.37
11	B5	201	CYC	C1B-NB	-2.24	1.34	1.37
11	W4	201	CYC	O2A-CGA	2.24	1.38	1.30
11	d3	1001	CYC	C1A-NA	-2.24	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	X5	201	CYC	C4B-NB	-2.24	1.33	1.38
11	T3	1001	CYC	C1B-NB	-2.24	1.34	1.37
11	z3	1001	CYC	C1A-NA	-2.24	1.33	1.38
11	i3	1001	CYC	C1B-NB	-2.24	1.34	1.37
11	13	901	CYC	C4C-NC	-2.24	1.32	1.37
11	q3	1001	CYC	C1A-NA	-2.24	1.33	1.38
11	k3	1001	CYC	C1B-NB	-2.24	1.34	1.37
11	d3	1001	CYC	C1B-NB	-2.24	1.34	1.37
11	e3	1001	CYC	C1A-NA	-2.24	1.33	1.38
11	W8	201	CYC	O2A-CGA	2.24	1.38	1.30
11	A1	301	CYC	C4B-NB	-2.24	1.33	1.38
11	A1	301	CYC	C1B-C2B	2.24	1.49	1.45
11	O3	1001	CYC	C1A-NA	-2.24	1.33	1.38
11	L1	201	CYC	C1B-C2B	2.23	1.49	1.45
11	Z5	201	CYC	C1B-C2B	2.23	1.49	1.45
11	J3	201	CYC	C1B-NB	-2.23	1.34	1.37
11	S4	201	CYC	C2C-C1C	-2.23	1.50	1.52
11	V5	201	CYC	C1B-C2B	2.23	1.49	1.45
11	O5	201	CYC	C1B-NB	-2.23	1.34	1.37
11	13	904	CYC	C1B-NB	-2.23	1.34	1.37
11	W3	1001	CYC	C1A-NA	-2.23	1.33	1.38
11	O1	201	CYC	C1B-NB	-2.23	1.34	1.37
11	I5	201	CYC	C1B-C2B	2.23	1.49	1.45
11	W4	201	CYC	C2C-C1C	-2.23	1.50	1.52
11	S5	201	CYC	C2C-C1C	-2.23	1.50	1.52
11	G3	1001	CYC	C1B-NB	-2.23	1.34	1.37
11	13	902	CYC	C1A-NA	-2.23	1.33	1.38
11	K5	201	CYC	C1B-C2B	2.23	1.49	1.45
11	F5	201	CYC	C1B-NB	-2.23	1.34	1.37
11	k3	1001	CYC	C1A-NA	-2.23	1.33	1.38
11	Z1	201	CYC	C1B-C2B	2.23	1.49	1.45
11	R1	201	CYC	C1B-C2B	2.23	1.49	1.45
11	Q3	1001	CYC	C1B-NB	-2.23	1.34	1.37
11	X5	202	CYC	C4C-NC	-2.23	1.32	1.37
11	v3	1001	CYC	C1A-NA	-2.22	1.33	1.38
11	E8	203	CYC	C2C-C1C	-2.22	1.50	1.52
11	N1	301	CYC	C4B-NB	-2.22	1.33	1.38
11	Q1	201	CYC	C1B-C2B	2.22	1.49	1.45
11	L8	201	CYC	O2A-CGA	2.22	1.38	1.30
11	H1	201	CYC	C1B-C2B	2.22	1.49	1.45
11	T4	201	CYC	C1D-CHD	2.22	1.49	1.41
11	J3	201	CYC	C1A-NA	-2.22	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	G3	1001	CYC	C1A-NA	-2.22	1.33	1.38
11	S4	201	CYC	O2A-CGA	2.22	1.38	1.30
11	03	902	CYC	C1A-NA	-2.22	1.33	1.38
11	L4	201	CYC	O2A-CGA	2.22	1.38	1.30
11	o3	1001	CYC	C1A-NA	-2.22	1.33	1.38
11	t3	1001	CYC	C1A-NA	-2.22	1.33	1.38
11	e3	1001	CYC	C1B-NB	-2.22	1.34	1.37
11	H5	201	CYC	C1B-C2B	2.22	1.49	1.45
11	U5	201	CYC	C1B-C2B	2.22	1.49	1.45
11	b3	1001	CYC	C1A-NA	-2.22	1.33	1.38
11	f3	1001	CYC	C1A-NA	-2.22	1.33	1.38
11	Q5	201	CYC	C1B-C2B	2.22	1.49	1.45
11	Y4	201	CYC	O2A-CGA	2.21	1.38	1.30
11	M4	201	CYC	O2A-CGA	2.21	1.38	1.30
11	P8	203	CYC	C2C-C1C	-2.21	1.50	1.52
11	W8	201	CYC	C2C-C1C	-2.21	1.50	1.52
11	I4	203	CYC	O2A-CGA	2.21	1.38	1.30
11	R5	201	CYC	C1B-C2B	2.21	1.49	1.45
11	O4	201	CYC	O2A-CGA	2.21	1.38	1.30
11	U3	1001	CYC	C1A-NA	-2.21	1.33	1.38
11	P8	203	CYC	O2A-CGA	2.21	1.38	1.30
11	p3	1001	CYC	C1A-NA	-2.21	1.33	1.38
11	T3	1001	CYC	C1A-NA	-2.21	1.33	1.38
11	I8	203	CYC	O2A-CGA	2.21	1.38	1.30
11	Q3	1001	CYC	C4A-C3A	2.21	1.50	1.45
11	P5	202	CYC	O1D-CGD	2.21	1.29	1.22
11	J5	201	CYC	C1B-C2B	2.21	1.49	1.45
11	C5	202	CYC	C2C-C1C	-2.21	1.50	1.52
11	H3	1001	CYC	C1A-NA	-2.21	1.33	1.38
11	c3	1001	CYC	C1A-NA	-2.21	1.33	1.38
11	y3	1001	CYC	C1B-NB	-2.21	1.34	1.37
11	l3	1001	CYC	C1A-NA	-2.21	1.33	1.38
11	M8	201	CYC	C2C-C1C	-2.21	1.50	1.52
11	13	904	CYC	C1A-NA	-2.21	1.33	1.38
11	Y8	201	CYC	O2A-CGA	2.21	1.38	1.30
11	Z4	201	CYC	C1D-CHD	2.21	1.49	1.41
11	T8	201	CYC	C1D-CHD	2.21	1.49	1.41
11	C5	202	CYC	C1B-C2B	2.21	1.49	1.45
11	M3	201	CYC	C1A-NA	-2.21	1.33	1.38
11	P3	1001	CYC	C1A-NA	-2.21	1.33	1.38
11	x3	1001	CYC	C1A-NA	-2.21	1.33	1.38
11	U4	201	CYC	C2C-C1C	-2.21	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	J1	201	CYC	C1B-C2B	2.21	1.49	1.45
11	U1	201	CYC	C1B-C2B	2.21	1.49	1.45
11	S8	201	CYC	O2A-CGA	2.21	1.38	1.30
11	C1	202	CYC	C2C-C1C	-2.21	1.50	1.52
11	S1	201	CYC	C2C-C1C	-2.21	1.50	1.52
11	S5	201	CYC	C1B-C2B	2.20	1.49	1.45
11	X1	202	CYC	C4C-NC	-2.20	1.32	1.37
11	A5	302	CYC	C1B-C2B	2.20	1.49	1.45
11	U8	201	CYC	C2C-C1C	-2.20	1.50	1.52
11	G8	201	CYC	O2A-CGA	2.20	1.38	1.30
11	N4	301	CYC	C1D-CHD	2.20	1.49	1.41
11	Q1	201	CYC	C2C-C1C	-2.20	1.50	1.52
11	Q5	201	CYC	C2C-C1C	-2.20	1.50	1.52
11	P1	202	CYC	C4C-NC	-2.20	1.32	1.37
11	M4	202	CYC	C1D-CHD	2.20	1.49	1.41
11	A8	301	CYC	C1D-CHD	2.20	1.49	1.41
11	g3	1001	CYC	C1B-NB	-2.20	1.34	1.37
11	P4	203	CYC	O2A-CGA	2.20	1.38	1.30
11	V1	202	CYC	C1B-C2B	2.20	1.49	1.45
11	N8	301	CYC	C1D-CHD	2.20	1.49	1.41
11	B5	201	CYC	C2C-C1C	-2.20	1.50	1.52
11	O8	201	CYC	O2A-CGA	2.20	1.38	1.30
11	M8	201	CYC	O2A-CGA	2.20	1.38	1.30
11	A4	301	CYC	C1D-CHD	2.20	1.49	1.41
11	E4	203	CYC	O2A-CGA	2.19	1.38	1.30
11	U8	201	CYC	O2A-CGA	2.19	1.38	1.30
11	I1	202	CYC	C4C-NC	-2.19	1.32	1.37
11	X5	203	CYC	C1B-C2B	2.19	1.49	1.45
11	I4	201	CYC	C1D-CHD	2.19	1.49	1.41
11	U4	201	CYC	O2A-CGA	2.19	1.38	1.30
11	D8	201	CYC	O2A-CGA	2.19	1.38	1.30
11	Z8	201	CYC	C1D-CHD	2.19	1.49	1.41
11	C1	202	CYC	C1B-C2B	2.19	1.49	1.45
11	P7	1001	CYC	C4D-CHA	2.19	1.49	1.41
11	D4	201	CYC	O2A-CGA	2.19	1.38	1.30
11	A5	301	CYC	C4B-NB	-2.19	1.33	1.38
11	P8	201	CYC	C1D-CHD	2.19	1.49	1.41
11	O1	201	CYC	C1B-C2B	2.19	1.49	1.45
11	E8	203	CYC	O2A-CGA	2.19	1.38	1.30
11	K4	201	CYC	C1D-CHD	2.19	1.49	1.41
11	D8	201	CYC	C2C-C1C	-2.19	1.50	1.52
11	E4	201	CYC	C1D-CHD	2.19	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	B1	201	CYC	C1B-C2B	2.19	1.49	1.45
11	03	901	CYC	C4C-NC	-2.19	1.32	1.37
11	M8	202	CYC	C1D-CHD	2.19	1.49	1.41
11	M1	202	CYC	C4C-NC	-2.19	1.32	1.37
11	K7	1001	CYC	C4D-CHA	2.19	1.49	1.41
11	D5	201	CYC	C4C-NC	-2.19	1.32	1.37
11	G8	202	CYC	C1D-CHD	2.19	1.49	1.41
11	G4	201	CYC	O2A-CGA	2.19	1.38	1.30
11	P7	1001	CYC	C1A-NA	-2.19	1.33	1.38
11	G4	202	CYC	C1D-CHD	2.19	1.49	1.41
11	Z1	202	CYC	O1D-CGD	2.19	1.29	1.22
11	K8	201	CYC	C1D-CHD	2.19	1.49	1.41
11	a7	1001	CYC	C1A-NA	-2.18	1.33	1.38
11	E8	201	CYC	C1D-CHD	2.18	1.49	1.41
11	T7	1001	CYC	C4D-CHA	2.18	1.49	1.41
11	D7	1001	CYC	C1B-NB	-2.18	1.34	1.37
11	P1	202	CYC	O1D-CGD	2.18	1.29	1.22
11	V8	201	CYC	C1D-CHD	2.18	1.49	1.41
11	I5	202	CYC	C4C-NC	-2.18	1.32	1.37
11	M5	202	CYC	C4C-NC	-2.18	1.32	1.37
11	B7	1001	CYC	C4D-CHA	2.18	1.49	1.41
11	X1	203	CYC	C1B-C2B	2.18	1.49	1.45
11	D7	1001	CYC	C1A-NA	-2.18	1.33	1.38
11	B5	201	CYC	C1B-C2B	2.18	1.49	1.45
11	M5	202	CYC	O1D-CGD	2.18	1.29	1.22
11	T5	201	CYC	C4C-NC	-2.18	1.32	1.37
11	P5	202	CYC	C4C-NC	-2.18	1.32	1.37
11	V4	201	CYC	C1D-CHD	2.18	1.49	1.41
11	V1	202	CYC	C2C-C1C	-2.18	1.50	1.52
11	I8	201	CYC	C1D-CHD	2.18	1.49	1.41
11	G5	202	CYC	C4C-NC	-2.18	1.32	1.37
11	g3	1001	CYC	C4A-C3A	2.18	1.50	1.45
11	V5	202	CYC	C1B-C2B	2.18	1.49	1.45
11	Z1	202	CYC	C4C-NC	-2.18	1.32	1.37
11	Z5	202	CYC	C4C-NC	-2.18	1.32	1.37
11	M4	201	CYC	C2C-C1C	-2.18	1.50	1.52
11	B7	1001	CYC	C1A-NA	-2.18	1.33	1.38
11	W7	1001	CYC	C4D-CHA	2.18	1.49	1.41
11	P4	201	CYC	C1D-CHD	2.17	1.49	1.41
11	P4	203	CYC	C2C-C1C	-2.17	1.50	1.52
11	D7	1001	CYC	C4D-CHA	2.17	1.49	1.41
11	R7	1001	CYC	C4D-CHA	2.17	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	M7	1001	CYC	C4D-CHA	2.17	1.49	1.41
11	X8	201	CYC	C1D-CHD	2.17	1.49	1.41
11	D1	201	CYC	C4C-NC	-2.17	1.32	1.37
11	m3	201	CYC	C4C-NC	-2.17	1.32	1.37
11	a7	1001	CYC	C4D-CHA	2.17	1.49	1.41
11	Y7	1001	CYC	C1A-NA	-2.17	1.33	1.38
11	B1	201	CYC	C2C-C1C	-2.17	1.50	1.52
11	F7	1001	CYC	C4D-CHA	2.17	1.49	1.41
11	G8	201	CYC	C2C-C1C	-2.17	1.50	1.52
11	T1	201	CYC	C4C-NC	-2.17	1.32	1.37
11	13	901	CYC	C1B-NB	-2.17	1.34	1.37
11	Z5	202	CYC	O1D-CGD	2.17	1.29	1.22
11	X1	202	CYC	O1D-CGD	2.17	1.29	1.22
11	O5	201	CYC	C1B-C2B	2.17	1.49	1.45
11	V3	201	CYC	C4C-NC	-2.17	1.32	1.37
11	F1	201	CYC	C1B-C2B	2.17	1.49	1.45
11	F5	201	CYC	C1B-C2B	2.17	1.49	1.45
11	U5	202	CYC	O1D-CGD	2.17	1.29	1.22
11	J7	1001	CYC	C2C-C1C	-2.17	1.50	1.52
11	M1	202	CYC	O1D-CGD	2.17	1.29	1.22
11	Y7	1001	CYC	C4D-CHA	2.17	1.49	1.41
11	S1	201	CYC	C1B-C2B	2.17	1.49	1.45
11	G1	202	CYC	C4C-NC	-2.16	1.32	1.37
11	R5	202	CYC	C4C-NC	-2.16	1.32	1.37
11	C1	201	CYC	C4C-NC	-2.16	1.32	1.37
11	J5	201	CYC	C2C-C1C	-2.16	1.50	1.52
11	O5	201	CYC	C2C-C1C	-2.16	1.50	1.52
11	Q7	1001	CYC	C2C-C1C	-2.16	1.50	1.52
11	S8	201	CYC	C2C-C1C	-2.16	1.50	1.52
11	O8	201	CYC	C1D-CHD	2.16	1.49	1.41
11	O4	201	CYC	C1D-CHD	2.16	1.49	1.41
11	U1	202	CYC	O1D-CGD	2.16	1.29	1.22
11	I7	1001	CYC	C4D-CHA	2.16	1.49	1.41
11	K1	202	CYC	C4C-NC	-2.16	1.32	1.37
11	J1	201	CYC	C2C-C1C	-2.16	1.50	1.52
11	C1	201	CYC	O1D-CGD	2.16	1.29	1.22
11	C5	201	CYC	O1D-CGD	2.16	1.29	1.22
11	R1	202	CYC	C4C-NC	-2.16	1.32	1.37
11	D1	201	CYC	O1D-CGD	2.16	1.29	1.22
11	L1	201	CYC	C2C-C1C	-2.16	1.50	1.52
11	T1	201	CYC	O1D-CGD	2.15	1.29	1.22
11	I5	202	CYC	O1D-CGD	2.15	1.29	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	G5	202	CYC	O1D-CGD	2.15	1.29	1.22
11	G1	202	CYC	O1D-CGD	2.15	1.29	1.22
11	R7	1001	CYC	C1B-NB	-2.15	1.34	1.37
11	X4	201	CYC	C1D-CHD	2.15	1.49	1.41
11	I7	1001	CYC	C1A-NA	-2.15	1.34	1.38
11	K7	1001	CYC	C1A-NA	-2.15	1.34	1.38
11	P8	203	CYC	C1D-CHD	2.15	1.49	1.41
11	O4	201	CYC	C2C-C1C	-2.15	1.50	1.52
11	R5	202	CYC	C2C-C1C	-2.15	1.50	1.52
11	I1	202	CYC	O1D-CGD	2.15	1.29	1.22
11	O1	201	CYC	C2C-C1C	-2.15	1.50	1.52
11	P4	203	CYC	C1D-CHD	2.15	1.49	1.41
11	L5	201	CYC	C2C-C1C	-2.15	1.50	1.52
11	W7	1001	CYC	C1A-NA	-2.15	1.34	1.38
11	G8	201	CYC	C1D-CHD	2.15	1.49	1.41
11	K5	202	CYC	O1D-CGD	2.15	1.29	1.22
11	M8	201	CYC	C1D-CHD	2.15	1.49	1.41
11	X5	202	CYC	O1D-CGD	2.14	1.29	1.22
11	R1	202	CYC	O1D-CGD	2.14	1.29	1.22
11	T7	1001	CYC	C1A-NA	-2.14	1.34	1.38
11	S4	201	CYC	C1D-CHD	2.14	1.49	1.41
11	U4	201	CYC	C1D-CHD	2.14	1.49	1.41
11	G4	201	CYC	C1D-CHD	2.14	1.49	1.41
11	D5	201	CYC	O1D-CGD	2.14	1.29	1.22
11	L4	201	CYC	C1D-CHD	2.14	1.49	1.41
11	Y4	201	CYC	C1D-CHD	2.14	1.49	1.41
11	S8	201	CYC	C1D-CHD	2.14	1.49	1.41
11	T5	201	CYC	O1D-CGD	2.14	1.29	1.22
11	I7	1001	CYC	C1B-NB	-2.14	1.34	1.37
11	F1	201	CYC	C2C-C1C	-2.14	1.50	1.52
11	A7	1001	CYC	C2C-C1C	-2.14	1.50	1.52
11	M7	1001	CYC	C1A-NA	-2.14	1.34	1.38
11	K5	202	CYC	C4C-NC	-2.14	1.32	1.37
11	U8	201	CYC	C1D-CHD	2.14	1.49	1.41
11	C5	201	CYC	C4C-NC	-2.14	1.32	1.37
11	Y8	201	CYC	C1D-CHD	2.14	1.49	1.41
11	V5	202	CYC	C2C-C1C	-2.14	1.50	1.52
11	L8	201	CYC	C1D-CHD	2.14	1.49	1.41
11	R7	1001	CYC	C1A-NA	-2.13	1.34	1.38
11	K1	202	CYC	O1D-CGD	2.13	1.29	1.22
11	L4	201	CYC	C2C-C1C	-2.13	1.50	1.52
11	I8	203	CYC	C2C-C1C	-2.13	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	L8	201	CYC	C2C-C1C	-2.13	1.50	1.52
11	I4	203	CYC	C1D-CHD	2.13	1.49	1.41
11	P7	1001	CYC	C1B-NB	-2.13	1.34	1.37
11	U1	202	CYC	C4C-NC	-2.13	1.32	1.37
11	M4	201	CYC	C1D-CHD	2.13	1.49	1.41
11	D8	201	CYC	C1D-CHD	2.13	1.49	1.41
11	Y8	201	CYC	C2C-C1C	-2.13	1.50	1.52
11	E4	203	CYC	C1D-CHD	2.13	1.49	1.41
11	U5	202	CYC	C4C-NC	-2.12	1.32	1.37
11	Y7	1001	CYC	C1B-NB	-2.12	1.34	1.37
11	E4	201	CYC	C4A-C3A	2.12	1.50	1.45
11	I8	203	CYC	C1D-CHD	2.12	1.49	1.41
11	E8	203	CYC	C1D-CHD	2.12	1.49	1.41
11	R5	202	CYC	O1D-CGD	2.12	1.29	1.22
11	F7	1001	CYC	C1A-NA	-2.12	1.34	1.38
11	m3	201	CYC	OB-C4B	2.12	1.27	1.23
11	W8	201	CYC	C1D-CHD	2.12	1.49	1.41
11	X5	203	CYC	C2C-C1C	-2.12	1.50	1.52
11	W4	201	CYC	C1D-CHD	2.12	1.49	1.41
11	K7	1001	CYC	C1B-NB	-2.12	1.34	1.37
11	P5	201	CYC	C1A-NA	-2.11	1.34	1.38
11	C7	1001	CYC	C1D-CHD	2.11	1.49	1.41
11	S7	1001	CYC	C1D-CHD	2.11	1.49	1.41
11	F7	1001	CYC	C1B-NB	-2.11	1.34	1.37
11	E7	1001	CYC	C1D-CHD	2.11	1.49	1.41
11	D4	201	CYC	C2C-C1C	-2.11	1.50	1.52
11	P1	201	CYC	C1A-NA	-2.11	1.34	1.38
11	I4	203	CYC	C2C-C1C	-2.11	1.50	1.52
11	V3	201	CYC	OB-C4B	2.11	1.27	1.23
11	D4	201	CYC	C1D-CHD	2.11	1.49	1.41
11	V5	201	CYC	C1A-NA	-2.11	1.34	1.38
11	H6	201	CYC	C4B-NB	-2.10	1.33	1.38
11	H1	201	CYC	C2C-C1C	-2.10	1.50	1.52
11	J7	1001	CYC	C1D-CHD	2.10	1.49	1.41
11	T7	1001	CYC	C1B-NB	-2.10	1.34	1.37
11	H7	1001	CYC	C1D-CHD	2.10	1.49	1.41
11	03	901	CYC	C1B-NB	-2.10	1.34	1.37
11	V5	202	CYC	O2D-CGD	2.10	1.37	1.30
11	M7	1001	CYC	C1B-NB	-2.10	1.34	1.37
11	F5	201	CYC	C2C-C1C	-2.10	1.50	1.52
11	Z7	1001	CYC	C1D-CHD	2.10	1.49	1.41
11	O7	1001	CYC	C2C-C1C	-2.10	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	Q7	1001	CYC	C1D-CHD	2.10	1.49	1.41
11	V1	201	CYC	C1A-NA	-2.10	1.34	1.38
11	X1	203	CYC	C2C-C1C	-2.10	1.50	1.52
11	J1	201	CYC	O2D-CGD	2.09	1.37	1.30
11	J5	201	CYC	O2D-CGD	2.09	1.37	1.30
11	C7	1001	CYC	C2C-C1C	-2.09	1.50	1.52
11	E8	201	CYC	C4A-C3A	2.09	1.50	1.45
11	C5	202	CYC	O2D-CGD	2.09	1.37	1.30
11	E4	203	CYC	C4B-NB	-2.09	1.33	1.38
11	C1	201	CYC	C2C-C1C	-2.09	1.50	1.52
11	Z7	1001	CYC	C2C-C1C	-2.09	1.50	1.52
11	a7	1001	CYC	C1B-NB	-2.09	1.34	1.37
11	Z4	201	CYC	C4A-C3A	2.09	1.50	1.45
11	V7	1001	CYC	C1D-CHD	2.09	1.49	1.41
11	L7	1001	CYC	C1D-CHD	2.09	1.49	1.41
11	R5	201	CYC	C1A-NA	-2.09	1.34	1.38
11	U1	201	CYC	O2D-CGD	2.09	1.37	1.30
11	R1	201	CYC	C1A-NA	-2.09	1.34	1.38
11	A7	1001	CYC	C1D-CHD	2.09	1.49	1.41
11	P1	202	CYC	C2C-C1C	-2.09	1.50	1.52
11	D5	201	CYC	C2C-C1C	-2.09	1.50	1.52
11	O8	201	CYC	C2C-C1C	-2.09	1.50	1.52
11	K4	201	CYC	C4A-C3A	2.09	1.50	1.45
11	V1	202	CYC	O2D-CGD	2.09	1.37	1.30
11	X5	201	CYC	C1A-NA	-2.09	1.34	1.38
11	c3	1001	CYC	C1D-CHD	2.09	1.49	1.41
11	M1	201	CYC	C1A-NA	-2.08	1.34	1.38
11	J6	201	CYC	C1D-CHD	2.08	1.49	1.41
11	G1	201	CYC	C1A-NA	-2.08	1.34	1.38
11	A5	302	CYC	C1A-NA	-2.08	1.34	1.38
11	G8	202	CYC	C4A-C3A	2.08	1.50	1.45
11	W6	201	CYC	C4B-NB	-2.08	1.33	1.38
11	P4	201	CYC	C4A-C3A	2.08	1.50	1.45
11	B1	201	CYC	O2D-CGD	2.08	1.37	1.30
11	C1	202	CYC	O2D-CGD	2.08	1.37	1.30
11	H5	201	CYC	O2D-CGD	2.08	1.37	1.30
11	F1	201	CYC	O2D-CGD	2.08	1.37	1.30
11	L1	201	CYC	O2D-CGD	2.08	1.37	1.30
11	H2	201	CYC	C4B-NB	-2.08	1.33	1.38
11	A1	302	CYC	C1A-NA	-2.08	1.34	1.38
11	A5	301	CYC	C1A-NA	-2.08	1.34	1.38
11	F5	201	CYC	O2D-CGD	2.08	1.37	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	S5	201	CYC	O2D-CGD	2.08	1.37	1.30
11	Q1	201	CYC	O2D-CGD	2.08	1.37	1.30
11	Z8	201	CYC	C4A-C3A	2.08	1.50	1.45
11	13	904	CYC	C1D-CHD	2.08	1.49	1.41
11	H6	201	CYC	C1D-CHD	2.08	1.49	1.41
11	U5	201	CYC	O2D-CGD	2.08	1.37	1.30
11	S2	201	CYC	C4B-NB	-2.08	1.33	1.38
11	X2	203	CYC	C4B-NB	-2.08	1.33	1.38
11	Q6	201	CYC	C1D-CHD	2.08	1.49	1.41
11	O5	201	CYC	O2D-CGD	2.08	1.37	1.30
11	S3	1001	CYC	C1D-CHD	2.08	1.49	1.41
11	A1	301	CYC	C1A-NA	-2.08	1.34	1.38
11	O1	201	CYC	O2D-CGD	2.08	1.37	1.30
11	N4	301	CYC	C4A-C3A	2.08	1.50	1.45
11	S1	201	CYC	O2D-CGD	2.08	1.37	1.30
11	A8	301	CYC	C4A-C3A	2.07	1.50	1.45
11	E8	203	CYC	C4B-NB	-2.07	1.33	1.38
11	H1	201	CYC	O2D-CGD	2.07	1.37	1.30
11	p3	1001	CYC	C1D-CHD	2.07	1.49	1.41
11	C6	203	CYC	C1D-CHD	2.07	1.49	1.41
11	U8	201	CYC	C4B-NB	-2.07	1.33	1.38
11	I4	203	CYC	C4B-NB	-2.07	1.33	1.38
11	I5	201	CYC	C1A-NA	-2.07	1.34	1.38
11	Q5	201	CYC	O2D-CGD	2.07	1.37	1.30
11	X1	201	CYC	C1A-NA	-2.07	1.34	1.38
11	M5	201	CYC	C1A-NA	-2.07	1.34	1.38
11	L5	201	CYC	O2D-CGD	2.07	1.37	1.30
11	O7	1001	CYC	C1D-CHD	2.07	1.49	1.41
11	C5	201	CYC	C2C-C1C	-2.07	1.50	1.52
11	H5	201	CYC	C2C-C1C	-2.07	1.50	1.52
11	W2	201	CYC	C4B-NB	-2.07	1.33	1.38
11	13	903	CYC	C1D-CHD	2.07	1.49	1.41
11	O6	201	CYC	C1D-CHD	2.07	1.49	1.41
11	I2	203	CYC	C1D-CHD	2.07	1.49	1.41
11	V8	201	CYC	C4A-C3A	2.07	1.50	1.45
11	X1	203	CYC	O2D-CGD	2.07	1.37	1.30
11	M3	201	CYC	C4A-C3A	2.07	1.50	1.45
11	P8	201	CYC	C4A-C3A	2.07	1.50	1.45
11	R1	202	CYC	C2C-C1C	-2.07	1.50	1.52
11	03	901	CYC	C1D-CHD	2.07	1.49	1.41
11	V4	201	CYC	C4A-C3A	2.07	1.50	1.45
11	D2	201	CYC	C1D-CHD	2.07	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	W2	201	CYC	C1D-CHD	2.07	1.49	1.41
11	S4	201	CYC	C4B-NB	-2.07	1.33	1.38
11	G5	201	CYC	C1A-NA	-2.07	1.34	1.38
11	J3	201	CYC	C1D-CHD	2.07	1.49	1.41
11	M4	201	CYC	C4B-NB	-2.07	1.33	1.38
11	H3	1001	CYC	C4A-C3A	2.07	1.50	1.45
11	A4	301	CYC	C4A-C3A	2.07	1.50	1.45
11	Y6	201	CYC	C4B-NB	-2.07	1.33	1.38
11	Q2	201	CYC	C1D-CHD	2.07	1.49	1.41
11	G4	201	CYC	C2C-C1C	-2.07	1.50	1.52
11	o3	1001	CYC	C1B-C2B	2.07	1.48	1.45
11	K8	201	CYC	C4A-C3A	2.07	1.50	1.45
11	r3	1001	CYC	C1D-CHD	2.06	1.49	1.41
11	t3	1001	CYC	C1D-CHD	2.06	1.49	1.41
11	R6	202	CYC	C1D-CHD	2.06	1.49	1.41
11	H2	201	CYC	C1D-CHD	2.06	1.49	1.41
11	13	901	CYC	C1D-CHD	2.06	1.49	1.41
11	x3	1001	CYC	C1D-CHD	2.06	1.49	1.41
11	K5	201	CYC	C1A-NA	-2.06	1.34	1.38
11	K2	203	CYC	C4B-NB	-2.06	1.33	1.38
11	S2	201	CYC	C1D-CHD	2.06	1.49	1.41
11	n3	1001	CYC	C1D-CHD	2.06	1.49	1.41
11	X7	1001	CYC	C1D-CHD	2.06	1.49	1.41
11	E2	203	CYC	C4B-NB	-2.06	1.33	1.38
11	W7	1001	CYC	C1B-NB	-2.06	1.34	1.37
11	B6	201	CYC	C1D-CHD	2.06	1.49	1.41
11	C6	203	CYC	C4B-NB	-2.06	1.33	1.38
11	z3	1001	CYC	C1D-CHD	2.06	1.49	1.41
11	B5	201	CYC	O2D-CGD	2.06	1.37	1.30
11	Z1	201	CYC	C1A-NA	-2.06	1.34	1.38
11	Z5	201	CYC	C1A-NA	-2.06	1.34	1.38
11	R6	202	CYC	C4B-NB	-2.06	1.33	1.38
11	I1	201	CYC	C1A-NA	-2.06	1.34	1.38
11	v3	1001	CYC	C1D-CHD	2.06	1.49	1.41
11	03	902	CYC	C1D-CHD	2.06	1.49	1.41
11	M8	202	CYC	C4A-C3A	2.06	1.50	1.45
11	N8	301	CYC	C4A-C3A	2.06	1.50	1.45
11	U4	201	CYC	C4B-NB	-2.06	1.33	1.38
11	W6	201	CYC	C1D-CHD	2.06	1.49	1.41
11	D8	201	CYC	C4B-NB	-2.06	1.33	1.38
11	I4	201	CYC	C4A-C3A	2.06	1.50	1.45
11	D2	201	CYC	C4B-NB	-2.06	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	M8	201	CYC	C4B-NB	-2.06	1.33	1.38
11	N1	301	CYC	C1A-NA	-2.06	1.34	1.38
11	I2	203	CYC	C4B-NB	-2.06	1.33	1.38
11	K1	201	CYC	C1A-NA	-2.06	1.34	1.38
11	I8	203	CYC	C4B-NB	-2.06	1.33	1.38
11	H3	1001	CYC	C1D-CHD	2.05	1.49	1.41
11	13	902	CYC	C4A-C3A	2.05	1.50	1.45
11	T2	201	CYC	C1D-CHD	2.05	1.49	1.41
11	Z2	201	CYC	C1D-CHD	2.05	1.49	1.41
11	D4	201	CYC	C4B-NB	-2.05	1.33	1.38
11	G8	201	CYC	C4B-NB	-2.05	1.33	1.38
11	c3	1001	CYC	C4A-C3A	2.05	1.50	1.45
11	X5	203	CYC	O2D-CGD	2.05	1.37	1.30
11	B6	201	CYC	C4B-NB	-2.05	1.33	1.38
11	L6	201	CYC	C1D-CHD	2.05	1.49	1.41
11	G4	202	CYC	CAD-C3D	-2.05	1.49	1.52
11	s3	1001	CYC	C1B-C2B	2.05	1.48	1.45
11	X1	202	CYC	C1D-CHD	2.05	1.49	1.41
11	l3	1001	CYC	C1D-CHD	2.05	1.49	1.41
11	T5	201	CYC	C1D-CHD	2.05	1.49	1.41
11	T4	201	CYC	C4A-C3A	2.05	1.50	1.45
11	B2	201	CYC	C1D-CHD	2.05	1.49	1.41
11	O3	1001	CYC	C4A-C3A	2.05	1.50	1.45
11	G4	202	CYC	C4A-C3A	2.05	1.50	1.45
11	K2	203	CYC	C1D-CHD	2.05	1.49	1.41
11	W3	1001	CYC	C1D-CHD	2.05	1.49	1.41
11	Y6	201	CYC	C1D-CHD	2.05	1.49	1.41
11	C1	201	CYC	C1D-CHD	2.05	1.49	1.41
11	U3	1001	CYC	C1D-CHD	2.05	1.49	1.41
11	E4	201	CYC	C4D-CHA	2.05	1.49	1.41
11	13	902	CYC	C1D-CHD	2.05	1.49	1.41
11	U6	201	CYC	C1D-CHD	2.05	1.49	1.41
11	J6	201	CYC	C4B-NB	-2.05	1.33	1.38
11	13	901	CYC	C4D-CHA	2.05	1.49	1.41
11	e3	1001	CYC	C1D-CHD	2.05	1.49	1.41
11	O3	1001	CYC	C1D-CHD	2.05	1.49	1.41
11	r3	1001	CYC	C4A-C3A	2.05	1.50	1.45
11	M3	201	CYC	C1D-CHD	2.05	1.49	1.41
11	w3	1001	CYC	C1B-C2B	2.05	1.48	1.45
11	G5	202	CYC	C2C-C1C	-2.05	1.50	1.52
11	H7	1001	CYC	C2C-C1C	-2.05	1.50	1.52
11	V4	201	CYC	CAD-C3D	-2.05	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	X3	1001	CYC	C1B-C2B	2.05	1.48	1.45
11	L6	201	CYC	C4B-NB	-2.05	1.33	1.38
11	B2	201	CYC	C4B-NB	-2.05	1.33	1.38
11	U5	201	CYC	C2C-C1C	-2.05	1.50	1.52
11	D5	201	CYC	C1D-CHD	2.05	1.49	1.41
11	B7	1001	CYC	C1B-NB	-2.05	1.34	1.37
11	G4	201	CYC	C4B-NB	-2.05	1.33	1.38
11	U1	202	CYC	C1D-CHD	2.05	1.49	1.41
11	Y8	201	CYC	C4B-NB	-2.05	1.33	1.38
11	G8	202	CYC	CAD-C3D	-2.05	1.49	1.52
11	R5	202	CYC	C1D-CHD	2.05	1.49	1.41
11	O8	201	CYC	C4B-NB	-2.05	1.33	1.38
11	C5	201	CYC	C1D-CHD	2.05	1.49	1.41
11	O4	201	CYC	C4B-NB	-2.05	1.33	1.38
11	X4	201	CYC	C4A-C3A	2.04	1.50	1.45
11	T8	201	CYC	C4A-C3A	2.04	1.50	1.45
11	M1	202	CYC	C1D-CHD	2.04	1.49	1.41
11	13	903	CYC	C4A-C3A	2.04	1.50	1.45
11	K1	202	CYC	C1D-CHD	2.04	1.49	1.41
11	U5	202	CYC	C1D-CHD	2.04	1.49	1.41
11	Q6	201	CYC	C4B-NB	-2.04	1.33	1.38
11	b3	1001	CYC	C1B-C2B	2.04	1.48	1.45
11	j3	1001	CYC	C1D-CHD	2.04	1.49	1.41
11	P1	202	CYC	C1D-CHD	2.04	1.49	1.41
11	D1	201	CYC	C2C-C1C	-2.04	1.50	1.52
11	W4	201	CYC	C4B-NB	-2.04	1.33	1.38
11	P5	202	CYC	C1D-CHD	2.04	1.49	1.41
11	G1	202	CYC	C1D-CHD	2.04	1.49	1.41
11	X2	203	CYC	C1D-CHD	2.04	1.49	1.41
11	L7	1001	CYC	C2C-C1C	-2.04	1.50	1.52
11	X8	201	CYC	CAD-C3D	-2.04	1.49	1.52
11	E2	203	CYC	C1D-CHD	2.04	1.49	1.41
11	O6	201	CYC	C4B-NB	-2.04	1.33	1.38
11	S8	201	CYC	C4B-NB	-2.04	1.33	1.38
11	q3	1001	CYC	C1B-C2B	2.04	1.48	1.45
11	V8	201	CYC	CAD-C3D	-2.04	1.49	1.52
11	X5	202	CYC	C1D-CHD	2.04	1.49	1.41
11	N5	301	CYC	C1A-NA	-2.04	1.34	1.38
11	T1	201	CYC	C1D-CHD	2.04	1.49	1.41
11	K4	201	CYC	C4D-CHA	2.04	1.49	1.41
11	d3	1001	CYC	C1B-C2B	2.04	1.48	1.45
11	G5	202	CYC	C1D-CHD	2.04	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	X8	201	CYC	C4A-C3A	2.04	1.50	1.45
11	03	902	CYC	C1B-C2B	2.04	1.48	1.45
11	K5	202	CYC	C2C-C1C	-2.04	1.50	1.52
11	V7	1001	CYC	C2C-C1C	-2.04	1.50	1.52
11	R3	1001	CYC	C1B-C2B	2.04	1.48	1.45
11	D1	201	CYC	C1D-CHD	2.04	1.49	1.41
11	W3	1001	CYC	C4A-C3A	2.04	1.50	1.45
11	M4	202	CYC	C4A-C3A	2.04	1.50	1.45
11	I1	202	CYC	C1D-CHD	2.03	1.49	1.41
11	K1	202	CYC	C2C-C1C	-2.03	1.50	1.52
11	K5	202	CYC	C1D-CHD	2.03	1.49	1.41
11	M5	202	CYC	C1D-CHD	2.03	1.49	1.41
11	j3	1001	CYC	C4A-C3A	2.03	1.50	1.45
11	Z2	201	CYC	C4B-NB	-2.03	1.33	1.38
11	T2	201	CYC	C4B-NB	-2.03	1.33	1.38
11	R1	202	CYC	C1D-CHD	2.03	1.49	1.41
11	E8	201	CYC	C4D-CHA	2.03	1.49	1.41
11	Q2	201	CYC	C4B-NB	-2.03	1.33	1.38
11	F6	201	CYC	C4B-NB	-2.03	1.33	1.38
11	l3	1001	CYC	C4A-C3A	2.03	1.50	1.45
11	U1	201	CYC	C2C-C1C	-2.03	1.50	1.52
11	Z1	202	CYC	C1D-CHD	2.03	1.49	1.41
11	03	901	CYC	C4D-CHA	2.03	1.49	1.41
11	p3	1001	CYC	C1B-C2B	2.03	1.48	1.45
11	y3	1001	CYC	C1B-C2B	2.03	1.48	1.45
11	v3	1001	CYC	C4A-C3A	2.03	1.50	1.45
11	I8	201	CYC	C4A-C3A	2.03	1.50	1.45
11	F6	201	CYC	C1D-CHD	2.03	1.49	1.41
11	t3	1001	CYC	C4A-C3A	2.03	1.50	1.45
11	V8	201	CYC	C4D-CHA	2.03	1.49	1.41
11	I5	202	CYC	C1D-CHD	2.03	1.49	1.41
11	V5	201	CYC	C4C-NC	-2.03	1.33	1.37
11	S3	1001	CYC	C1B-C2B	2.03	1.48	1.45
11	e3	1001	CYC	C4A-C3A	2.03	1.50	1.45
11	p3	1001	CYC	C4A-C3A	2.03	1.50	1.45
11	X7	1001	CYC	C2C-C1C	-2.03	1.50	1.52
11	X4	201	CYC	CAD-C3D	-2.03	1.49	1.52
11	i3	1001	CYC	C1B-C2B	2.03	1.48	1.45
11	L8	201	CYC	C4B-NB	-2.03	1.33	1.38
11	V3	201	CYC	C4D-CHA	2.03	1.49	1.41
11	j3	1001	CYC	C1B-C2B	2.03	1.48	1.45
11	k3	1001	CYC	C1B-C2B	2.03	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	K8	201	CYC	C4D-CHA	2.03	1.49	1.41
11	Z4	201	CYC	CAD-C3D	-2.03	1.49	1.52
11	U3	1001	CYC	C4A-C3A	2.03	1.50	1.45
11	P8	201	CYC	C4D-CHA	2.03	1.49	1.41
11	I3	1001	CYC	C1B-C2B	2.03	1.48	1.45
11	Z3	1001	CYC	C1B-C2B	2.02	1.48	1.45
11	m3	201	CYC	C4D-CHA	2.02	1.49	1.41
11	G8	202	CYC	C4D-CHA	2.02	1.49	1.41
11	s3	1001	CYC	C1A-C2A	2.02	1.48	1.45
11	Y4	201	CYC	C4B-NB	-2.02	1.33	1.38
11	I4	201	CYC	CAD-C3D	-2.02	1.49	1.52
11	P8	203	CYC	C4B-NB	-2.02	1.33	1.38
11	P4	201	CYC	C4D-CHA	2.02	1.48	1.41
11	x3	1001	CYC	C4A-C3A	2.02	1.50	1.45
11	M8	202	CYC	C4D-CHA	2.02	1.48	1.41
11	U3	1001	CYC	C1B-C2B	2.02	1.48	1.45
11	A8	301	CYC	C4D-CHA	2.02	1.48	1.41
11	U6	201	CYC	C4B-NB	-2.02	1.33	1.38
11	Z8	201	CYC	CAD-C3D	-2.02	1.49	1.52
11	N3	1001	CYC	C1A-C2A	2.02	1.48	1.45
11	W8	201	CYC	C4B-NB	-2.02	1.33	1.38
11	Z5	202	CYC	C1D-CHD	2.01	1.48	1.41
11	V4	201	CYC	C4D-CHA	2.01	1.48	1.41
11	N4	301	CYC	CAD-C3D	-2.01	1.49	1.52
11	P4	203	CYC	C4B-NB	-2.01	1.33	1.38
11	V3	201	CYC	C1B-NB	-2.01	1.34	1.37
11	B5	201	CYC	C4B-NB	-2.01	1.33	1.38
11	n3	1001	CYC	C4A-C3A	2.01	1.50	1.45
11	C1	202	CYC	C4A-C3A	2.01	1.50	1.45
11	A4	301	CYC	C4D-CHA	2.01	1.48	1.41
11	M4	202	CYC	C4D-CHA	2.01	1.48	1.41
11	E7	1001	CYC	C2C-C1C	-2.01	1.50	1.52
11	K3	1001	CYC	C1A-C2A	2.01	1.48	1.45
11	I1	202	CYC	C2C-C1C	-2.01	1.50	1.52
11	03	902	CYC	C4A-C3A	2.01	1.50	1.45
11	f3	1001	CYC	C1B-C2B	2.01	1.48	1.45
11	G4	202	CYC	C4D-CHA	2.01	1.48	1.41
11	J3	201	CYC	C4A-C3A	2.01	1.50	1.45
11	Q7	1001	CYC	C1A-NA	-2.01	1.34	1.38
11	P5	202	CYC	C2C-C1C	-2.01	1.50	1.52
11	K8	201	CYC	CAD-C3D	-2.01	1.49	1.52
11	T4	201	CYC	C4D-CHA	2.01	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	K3	1001	CYC	C1B-C2B	2.01	1.48	1.45
11	X8	201	CYC	C4D-CHA	2.01	1.48	1.41
11	M4	201	CYC	C4D-CHA	2.01	1.48	1.41
11	T8	201	CYC	C4D-CHA	2.01	1.48	1.41
11	I4	201	CYC	C4D-CHA	2.00	1.48	1.41
11	z3	1001	CYC	C4A-C3A	2.00	1.50	1.45
11	R3	1001	CYC	C1A-C2A	2.00	1.48	1.45
11	F5	201	CYC	C4A-C3A	2.00	1.50	1.45
11	G1	202	CYC	C2C-C1C	-2.00	1.50	1.52
11	X1	203	CYC	C4A-C3A	2.00	1.50	1.45
11	o3	1001	CYC	C1A-C2A	2.00	1.48	1.45
11	P3	1001	CYC	C1B-C2B	2.00	1.48	1.45
11	V1	201	CYC	C4C-NC	-2.00	1.33	1.37
11	Q3	1001	CYC	C4B-NB	-2.00	1.33	1.38
11	C5	202	CYC	C4A-C3A	2.00	1.50	1.45
11	M8	201	CYC	C4D-CHA	2.00	1.48	1.41
11	L4	201	CYC	C4B-NB	-2.00	1.33	1.38
11	N4	301	CYC	C4D-CHA	2.00	1.48	1.41
11	N8	301	CYC	C4D-CHA	2.00	1.48	1.41
11	w3	1001	CYC	C1A-C2A	2.00	1.48	1.45
11	r3	1001	CYC	C1B-C2B	2.00	1.48	1.45
11	N1	301	CYC	C4C-NC	-2.00	1.33	1.37

All (5665) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Z6	201	CYC	O2A-CGA-O1A	-15.39	84.93	123.30
11	I2	201	CYC	O2A-CGA-O1A	-15.39	84.94	123.30
11	S5	201	CYC	O2A-CGA-O1A	-15.39	84.94	123.30
11	F1	201	CYC	O2A-CGA-O1A	-15.38	84.95	123.30
11	I6	201	CYC	O2A-CGA-O1A	-15.38	84.96	123.30
11	C6	201	CYC	O2A-CGA-O1A	-15.38	84.96	123.30
11	N6	302	CYC	O2A-CGA-O1A	-15.38	84.96	123.30
11	N2	302	CYC	O2A-CGA-O1A	-15.38	84.96	123.30
11	A6	301	CYC	O2A-CGA-O1A	-15.38	84.96	123.30
11	H5	201	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
11	S1	201	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
11	F5	201	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
11	X5	203	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
11	H1	201	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
11	C2	201	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
11	A2	301	CYC	O2A-CGA-O1A	-15.38	84.97	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	E2	201	CYC	O2A-CGA-O1A	-15.38	84.98	123.30
11	Z2	202	CYC	O2A-CGA-O1A	-15.37	84.98	123.30
11	V6	201	CYC	O2A-CGA-O1A	-15.37	84.98	123.30
11	U5	201	CYC	O2A-CGA-O1A	-15.37	84.98	123.30
11	U1	201	CYC	O2A-CGA-O1A	-15.37	84.98	123.30
11	C1	202	CYC	O2A-CGA-O1A	-15.37	84.98	123.30
11	Q1	201	CYC	O2A-CGA-O1A	-15.37	84.98	123.30
11	N6	301	CYC	O2A-CGA-O1A	-15.37	84.98	123.30
11	Q5	201	CYC	O2A-CGA-O1A	-15.37	84.99	123.30
11	X1	203	CYC	O2A-CGA-O1A	-15.37	84.99	123.30
11	V2	201	CYC	O2A-CGA-O1A	-15.37	84.99	123.30
11	V1	202	CYC	O2A-CGA-O1A	-15.37	85.00	123.30
11	O1	201	CYC	O2A-CGA-O1A	-15.37	85.00	123.30
11	C5	202	CYC	O2A-CGA-O1A	-15.36	85.01	123.30
11	N2	301	CYC	O2A-CGA-O1A	-15.36	85.01	123.30
11	E6	201	CYC	O2A-CGA-O1A	-15.36	85.01	123.30
11	P6	201	CYC	O2A-CGA-O1A	-15.36	85.01	123.30
11	M2	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
11	B1	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
11	X2	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
11	L5	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
11	V5	202	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
11	K6	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
11	K2	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
11	J1	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
11	P2	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
11	B5	201	CYC	O2A-CGA-O1A	-15.35	85.03	123.30
11	O5	201	CYC	O2A-CGA-O1A	-15.35	85.03	123.30
11	X6	201	CYC	O2A-CGA-O1A	-15.35	85.04	123.30
11	M6	201	CYC	O2A-CGA-O1A	-15.35	85.04	123.30
11	L1	201	CYC	O2A-CGA-O1A	-15.35	85.04	123.30
11	J5	201	CYC	O2A-CGA-O1A	-15.35	85.05	123.30
11	J3	201	CYC	O2A-CGA-O1A	-13.94	88.54	123.30
11	13	902	CYC	O2A-CGA-O1A	-13.94	88.55	123.30
11	O3	1001	CYC	O2A-CGA-O1A	-13.94	88.56	123.30
11	H3	1001	CYC	O2A-CGA-O1A	-13.94	88.56	123.30
11	U3	1001	CYC	O2A-CGA-O1A	-13.94	88.56	123.30
11	v3	1001	CYC	O2A-CGA-O1A	-13.94	88.56	123.30
11	j3	1001	CYC	O2A-CGA-O1A	-13.93	88.57	123.30
11	t3	1001	CYC	O2A-CGA-O1A	-13.93	88.57	123.30
11	13	904	CYC	O2A-CGA-O1A	-13.93	88.58	123.30
11	r3	1001	CYC	O2A-CGA-O1A	-13.93	88.58	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	W3	1001	CYC	O2A-CGA-O1A	-13.93	88.58	123.30
11	x3	1001	CYC	O2A-CGA-O1A	-13.93	88.59	123.30
11	p3	1001	CYC	O2A-CGA-O1A	-13.93	88.59	123.30
11	S3	1001	CYC	O2A-CGA-O1A	-13.93	88.59	123.30
11	e3	1001	CYC	O2A-CGA-O1A	-13.93	88.59	123.30
11	M3	201	CYC	O2A-CGA-O1A	-13.92	88.59	123.30
11	n3	1001	CYC	O2A-CGA-O1A	-13.92	88.60	123.30
11	c3	1001	CYC	O2A-CGA-O1A	-13.92	88.60	123.30
11	03	902	CYC	O2A-CGA-O1A	-13.92	88.60	123.30
11	13	903	CYC	O2A-CGA-O1A	-13.92	88.60	123.30
11	l3	1001	CYC	O2A-CGA-O1A	-13.92	88.61	123.30
11	z3	1001	CYC	O2A-CGA-O1A	-13.91	88.63	123.30
11	d3	1001	CYC	C3B-C4B-NB	12.94	117.23	106.78
11	q3	1001	CYC	C3B-C4B-NB	12.93	117.22	106.78
11	u3	1001	CYC	C3B-C4B-NB	12.92	117.22	106.78
11	k3	1001	CYC	C3B-C4B-NB	12.91	117.21	106.78
11	s3	1001	CYC	C3B-C4B-NB	12.91	117.21	106.78
11	Z3	1001	CYC	C3B-C4B-NB	12.91	117.20	106.78
11	T3	1001	CYC	C3B-C4B-NB	12.90	117.20	106.78
11	G3	1001	CYC	C3B-C4B-NB	12.90	117.20	106.78
11	o3	1001	CYC	C3B-C4B-NB	12.89	117.19	106.78
11	I3	1001	CYC	C3B-C4B-NB	12.89	117.19	106.78
11	X3	1001	CYC	C3B-C4B-NB	12.89	117.19	106.78
11	b3	1001	CYC	C3B-C4B-NB	12.89	117.19	106.78
11	w3	1001	CYC	C3B-C4B-NB	12.89	117.19	106.78
11	R3	1001	CYC	C3B-C4B-NB	12.88	117.19	106.78
11	i3	1001	CYC	C3B-C4B-NB	12.88	117.18	106.78
11	N3	1001	CYC	C3B-C4B-NB	12.87	117.18	106.78
11	K3	1001	CYC	C3B-C4B-NB	12.86	117.17	106.78
11	P3	1001	CYC	C3B-C4B-NB	12.86	117.17	106.78
11	f3	1001	CYC	C3B-C4B-NB	12.86	117.17	106.78
11	y3	1001	CYC	C3B-C4B-NB	12.85	117.16	106.78
11	I5	202	CYC	C3B-C4B-NB	12.49	116.87	106.78
11	I1	202	CYC	C3B-C4B-NB	12.48	116.86	106.78
11	P1	202	CYC	C3B-C4B-NB	12.47	116.85	106.78
11	M5	202	CYC	C3B-C4B-NB	12.47	116.85	106.78
11	K5	202	CYC	C3B-C4B-NB	12.46	116.85	106.78
11	U5	202	CYC	C3B-C4B-NB	12.46	116.84	106.78
11	K1	202	CYC	C3B-C4B-NB	12.45	116.84	106.78
11	C5	201	CYC	C3B-C4B-NB	12.45	116.83	106.78
11	Z1	202	CYC	C3B-C4B-NB	12.45	116.83	106.78
11	M1	202	CYC	C3B-C4B-NB	12.44	116.83	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	U1	202	CYC	C3B-C4B-NB	12.44	116.83	106.78
11	R5	202	CYC	C3B-C4B-NB	12.44	116.83	106.78
11	X1	202	CYC	C3B-C4B-NB	12.44	116.83	106.78
11	Z5	202	CYC	C3B-C4B-NB	12.43	116.82	106.78
11	R1	202	CYC	C3B-C4B-NB	12.43	116.82	106.78
11	G5	202	CYC	C3B-C4B-NB	12.42	116.82	106.78
11	X5	202	CYC	C3B-C4B-NB	12.42	116.82	106.78
11	T1	201	CYC	C3B-C4B-NB	12.42	116.81	106.78
11	C1	201	CYC	C3B-C4B-NB	12.41	116.81	106.78
11	P5	202	CYC	C3B-C4B-NB	12.41	116.80	106.78
11	T5	201	CYC	C3B-C4B-NB	12.40	116.80	106.78
11	G1	202	CYC	C3B-C4B-NB	12.38	116.78	106.78
11	D1	201	CYC	C3B-C4B-NB	12.37	116.77	106.78
11	D5	201	CYC	C3B-C4B-NB	12.31	116.72	106.78
11	m3	201	CYC	C3B-C4B-NB	12.31	116.72	106.78
11	V3	201	CYC	C3B-C4B-NB	12.27	116.69	106.78
11	03	901	CYC	C3B-C4B-NB	11.78	116.30	106.78
11	W2	201	CYC	C3B-C4B-NB	11.76	116.28	106.78
11	13	901	CYC	C3B-C4B-NB	11.74	116.27	106.78
11	J6	201	CYC	C3B-C4B-NB	11.74	116.27	106.78
11	H2	201	CYC	C3B-C4B-NB	11.72	116.25	106.78
11	S2	201	CYC	C3B-C4B-NB	11.71	116.24	106.78
11	H6	201	CYC	C3B-C4B-NB	11.71	116.24	106.78
11	B6	201	CYC	C3B-C4B-NB	11.71	116.24	106.78
11	W6	201	CYC	C3B-C4B-NB	11.71	116.24	106.78
11	I2	203	CYC	C3B-C4B-NB	11.70	116.23	106.78
11	T2	201	CYC	C3B-C4B-NB	11.70	116.23	106.78
11	B2	201	CYC	C3B-C4B-NB	11.70	116.23	106.78
11	U6	201	CYC	C3B-C4B-NB	11.69	116.22	106.78
11	F6	201	CYC	C3B-C4B-NB	11.68	116.22	106.78
11	X2	203	CYC	C3B-C4B-NB	11.68	116.21	106.78
11	Y6	201	CYC	C3B-C4B-NB	11.68	116.21	106.78
11	R6	202	CYC	C3B-C4B-NB	11.68	116.21	106.78
11	K2	203	CYC	C3B-C4B-NB	11.67	116.21	106.78
11	L6	201	CYC	C3B-C4B-NB	11.67	116.21	106.78
11	C6	203	CYC	C3B-C4B-NB	11.65	116.19	106.78
11	Z2	201	CYC	C3B-C4B-NB	11.65	116.19	106.78
11	O6	201	CYC	C3B-C4B-NB	11.64	116.18	106.78
11	D2	201	CYC	C3B-C4B-NB	11.64	116.18	106.78
11	E2	203	CYC	C3B-C4B-NB	11.64	116.18	106.78
11	Q2	201	CYC	C3B-C4B-NB	11.61	116.16	106.78
11	Q6	201	CYC	C3B-C4B-NB	11.55	116.11	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Q5	201	CYC	OC-C1C-C2C	-11.44	117.08	126.17
11	B1	201	CYC	OC-C1C-C2C	-11.44	117.08	126.17
11	U1	201	CYC	OC-C1C-C2C	-11.43	117.08	126.17
11	B5	201	CYC	OC-C1C-C2C	-11.43	117.08	126.17
11	U5	201	CYC	OC-C1C-C2C	-11.42	117.09	126.17
11	F1	201	CYC	OC-C1C-C2C	-11.41	117.10	126.17
11	S5	201	CYC	OC-C1C-C2C	-11.41	117.10	126.17
11	X1	203	CYC	OC-C1C-C2C	-11.40	117.11	126.17
11	Q1	201	CYC	OC-C1C-C2C	-11.40	117.11	126.17
11	X5	203	CYC	OC-C1C-C2C	-11.39	117.12	126.17
11	L1	201	CYC	OC-C1C-C2C	-11.39	117.12	126.17
11	O5	201	CYC	OC-C1C-C2C	-11.39	117.12	126.17
11	F5	201	CYC	OC-C1C-C2C	-11.38	117.12	126.17
11	O1	201	CYC	OC-C1C-C2C	-11.37	117.13	126.17
11	V5	202	CYC	OC-C1C-C2C	-11.37	117.13	126.17
11	S1	201	CYC	OC-C1C-C2C	-11.36	117.14	126.17
11	H1	201	CYC	OC-C1C-C2C	-11.35	117.15	126.17
11	L5	201	CYC	OC-C1C-C2C	-11.35	117.15	126.17
11	C1	202	CYC	OC-C1C-C2C	-11.34	117.16	126.17
11	V1	202	CYC	OC-C1C-C2C	-11.33	117.16	126.17
11	C5	202	CYC	OC-C1C-C2C	-11.33	117.17	126.17
11	J5	201	CYC	OC-C1C-C2C	-11.31	117.18	126.17
11	H5	201	CYC	OC-C1C-C2C	-11.31	117.18	126.17
11	J1	201	CYC	OC-C1C-C2C	-11.30	117.19	126.17
11	a7	1001	CYC	C3B-C4B-NB	11.26	115.88	106.78
11	G8	201	CYC	C3B-C4B-NB	11.24	115.86	106.78
11	D8	201	CYC	C3B-C4B-NB	11.24	115.86	106.78
11	F7	1001	CYC	C3B-C4B-NB	11.24	115.86	106.78
11	H3	1001	CYC	C3B-C4B-NB	11.23	115.86	106.78
11	R7	1001	CYC	C3B-C4B-NB	11.23	115.85	106.78
11	D4	201	CYC	C3B-C4B-NB	11.23	115.85	106.78
11	P7	1001	CYC	C3B-C4B-NB	11.23	115.85	106.78
11	I4	203	CYC	C3B-C4B-NB	11.22	115.85	106.78
11	M7	1001	CYC	C3B-C4B-NB	11.22	115.85	106.78
11	K7	1001	CYC	C3B-C4B-NB	11.22	115.84	106.78
11	U8	201	CYC	C3B-C4B-NB	11.22	115.84	106.78
11	S3	1001	CYC	C3B-C4B-NB	11.22	115.84	106.78
11	I7	1001	CYC	C3B-C4B-NB	11.22	115.84	106.78
11	13	902	CYC	C3B-C4B-NB	11.21	115.84	106.78
11	T2	201	CYC	O2D-CGD-O1D	-11.21	95.36	123.30
11	W2	201	CYC	O2D-CGD-O1D	-11.20	95.37	123.30
11	K2	203	CYC	O2D-CGD-O1D	-11.20	95.37	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	J3	201	CYC	C3B-C4B-NB	11.20	115.83	106.78
11	Y6	201	CYC	O2D-CGD-O1D	-11.20	95.38	123.30
11	Z2	201	CYC	O2D-CGD-O1D	-11.20	95.39	123.30
11	S2	201	CYC	O2D-CGD-O1D	-11.20	95.39	123.30
11	W6	201	CYC	O2D-CGD-O1D	-11.20	95.39	123.30
11	j3	1001	CYC	C3B-C4B-NB	11.20	115.83	106.78
11	O6	201	CYC	O2D-CGD-O1D	-11.20	95.39	123.30
11	G4	201	CYC	C3B-C4B-NB	11.20	115.82	106.78
11	X2	203	CYC	O2D-CGD-O1D	-11.20	95.39	123.30
11	W7	1001	CYC	C3B-C4B-NB	11.20	115.82	106.78
11	M4	201	CYC	C3B-C4B-NB	11.19	115.82	106.78
11	U6	201	CYC	O2D-CGD-O1D	-11.19	95.41	123.30
11	Q2	201	CYC	O2D-CGD-O1D	-11.19	95.41	123.30
11	n3	1001	CYC	C3B-C4B-NB	11.19	115.82	106.78
11	Y7	1001	CYC	C3B-C4B-NB	11.19	115.82	106.78
11	O8	201	CYC	C3B-C4B-NB	11.19	115.82	106.78
11	L6	201	CYC	O2D-CGD-O1D	-11.19	95.41	123.30
11	I8	203	CYC	C3B-C4B-NB	11.19	115.82	106.78
11	L8	201	CYC	C3B-C4B-NB	11.19	115.82	106.78
11	I2	203	CYC	O2D-CGD-O1D	-11.18	95.42	123.30
11	Y4	201	CYC	C3B-C4B-NB	11.18	115.81	106.78
11	Q6	201	CYC	O2D-CGD-O1D	-11.18	95.43	123.30
11	Y8	201	CYC	C3B-C4B-NB	11.18	115.81	106.78
11	E2	203	CYC	O2D-CGD-O1D	-11.18	95.43	123.30
11	R6	202	CYC	O2D-CGD-O1D	-11.18	95.43	123.30
11	J6	201	CYC	O2D-CGD-O1D	-11.18	95.43	123.30
11	D2	201	CYC	O2D-CGD-O1D	-11.18	95.44	123.30
11	B7	1001	CYC	C3B-C4B-NB	11.18	115.81	106.78
11	E8	203	CYC	C3B-C4B-NB	11.18	115.81	106.78
11	B2	201	CYC	O2D-CGD-O1D	-11.18	95.44	123.30
11	W4	201	CYC	C3B-C4B-NB	11.18	115.81	106.78
11	M8	201	CYC	C3B-C4B-NB	11.17	115.81	106.78
11	H2	201	CYC	O2D-CGD-O1D	-11.17	95.45	123.30
11	C6	203	CYC	O2D-CGD-O1D	-11.17	95.45	123.30
11	B6	201	CYC	O2D-CGD-O1D	-11.17	95.45	123.30
11	T7	1001	CYC	C3B-C4B-NB	11.17	115.80	106.78
11	W8	201	CYC	C3B-C4B-NB	11.17	115.80	106.78
11	F6	201	CYC	O2D-CGD-O1D	-11.17	95.46	123.30
11	O3	1001	CYC	C3B-C4B-NB	11.17	115.80	106.78
11	U4	201	CYC	C3B-C4B-NB	11.17	115.80	106.78
11	13	904	CYC	C3B-C4B-NB	11.17	115.80	106.78
11	U3	1001	CYC	C3B-C4B-NB	11.17	115.80	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	T4	201	CYC	C3B-C4B-NB	11.17	115.80	106.78
11	13	903	CYC	C3B-C4B-NB	11.16	115.80	106.78
11	v3	1001	CYC	C3B-C4B-NB	11.16	115.80	106.78
11	W3	1001	CYC	C3B-C4B-NB	11.16	115.80	106.78
11	K4	201	CYC	C3B-C4B-NB	11.16	115.80	106.78
11	S4	201	CYC	C3B-C4B-NB	11.16	115.80	106.78
11	r3	1001	CYC	C3B-C4B-NB	11.16	115.79	106.78
11	p3	1001	CYC	C3B-C4B-NB	11.16	115.79	106.78
11	D7	1001	CYC	C3B-C4B-NB	11.16	115.79	106.78
11	H6	201	CYC	O2D-CGD-O1D	-11.15	95.50	123.30
11	e3	1001	CYC	C3B-C4B-NB	11.15	115.79	106.78
11	c3	1001	CYC	C3B-C4B-NB	11.15	115.79	106.78
11	E4	201	CYC	C3B-C4B-NB	11.15	115.79	106.78
11	M3	201	CYC	C3B-C4B-NB	11.15	115.78	106.78
11	x3	1001	CYC	C3B-C4B-NB	11.15	115.78	106.78
11	z3	1001	CYC	C3B-C4B-NB	11.15	115.78	106.78
11	L4	201	CYC	C3B-C4B-NB	11.15	115.78	106.78
11	l3	1001	CYC	C3B-C4B-NB	11.14	115.78	106.78
11	E4	203	CYC	C3B-C4B-NB	11.14	115.78	106.78
11	03	902	CYC	C3B-C4B-NB	11.14	115.78	106.78
11	S8	201	CYC	C3B-C4B-NB	11.14	115.78	106.78
11	P8	203	CYC	C3B-C4B-NB	11.13	115.77	106.78
11	t3	1001	CYC	C3B-C4B-NB	11.13	115.77	106.78
11	O4	201	CYC	C3B-C4B-NB	11.13	115.77	106.78
11	V8	201	CYC	C3B-C4B-NB	11.13	115.77	106.78
11	T8	201	CYC	C3B-C4B-NB	11.12	115.76	106.78
11	I4	201	CYC	C3B-C4B-NB	11.12	115.76	106.78
11	G4	202	CYC	C3B-C4B-NB	11.11	115.75	106.78
11	I8	201	CYC	C3B-C4B-NB	11.11	115.75	106.78
11	K8	201	CYC	C3B-C4B-NB	11.09	115.74	106.78
11	E8	201	CYC	C3B-C4B-NB	11.09	115.74	106.78
11	P4	201	CYC	C3B-C4B-NB	11.09	115.73	106.78
11	X4	201	CYC	C3B-C4B-NB	11.09	115.73	106.78
11	V4	201	CYC	C3B-C4B-NB	11.09	115.73	106.78
11	P8	201	CYC	C3B-C4B-NB	11.08	115.73	106.78
11	G8	202	CYC	C3B-C4B-NB	11.07	115.72	106.78
11	M8	202	CYC	C3B-C4B-NB	11.05	115.71	106.78
11	X8	201	CYC	C3B-C4B-NB	11.05	115.71	106.78
11	P4	203	CYC	C3B-C4B-NB	11.04	115.70	106.78
11	M4	202	CYC	C3B-C4B-NB	11.03	115.69	106.78
11	N8	301	CYC	C3B-C4B-NB	11.02	115.68	106.78
11	Z8	201	CYC	C3B-C4B-NB	11.02	115.68	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	A8	301	CYC	C3B-C4B-NB	11.02	115.68	106.78
11	N4	301	CYC	C3B-C4B-NB	11.00	115.67	106.78
11	A4	301	CYC	C3B-C4B-NB	11.00	115.66	106.78
11	Z4	201	CYC	C3B-C4B-NB	10.98	115.65	106.78
11	Q3	1001	CYC	C3B-C4B-NB	10.90	115.58	106.78
11	A1	302	CYC	C3B-C4B-NB	10.86	115.55	106.78
11	C7	1001	CYC	C3B-C4B-NB	10.85	115.55	106.78
11	A5	302	CYC	C3B-C4B-NB	10.85	115.54	106.78
11	V5	201	CYC	C3B-C4B-NB	10.85	115.54	106.78
11	g3	1001	CYC	C3B-C4B-NB	10.84	115.53	106.78
11	O7	1001	CYC	C3B-C4B-NB	10.83	115.53	106.78
11	E7	1001	CYC	C3B-C4B-NB	10.83	115.53	106.78
11	V7	1001	CYC	C3B-C4B-NB	10.82	115.52	106.78
11	R5	201	CYC	C3B-C4B-NB	10.82	115.52	106.78
11	R1	201	CYC	C3B-C4B-NB	10.82	115.52	106.78
11	V1	201	CYC	C3B-C4B-NB	10.81	115.51	106.78
11	Q7	1001	CYC	C3B-C4B-NB	10.81	115.51	106.78
11	L7	1001	CYC	C3B-C4B-NB	10.81	115.51	106.78
11	G5	201	CYC	C3B-C4B-NB	10.80	115.51	106.78
11	Z7	1001	CYC	C3B-C4B-NB	10.80	115.50	106.78
11	H7	1001	CYC	C3B-C4B-NB	10.80	115.50	106.78
11	A7	1001	CYC	C3B-C4B-NB	10.79	115.50	106.78
11	S7	1001	CYC	C3B-C4B-NB	10.79	115.50	106.78
11	Z1	201	CYC	C3B-C4B-NB	10.79	115.49	106.78
11	X7	1001	CYC	C3B-C4B-NB	10.79	115.49	106.78
11	M5	201	CYC	C3B-C4B-NB	10.77	115.48	106.78
11	M1	201	CYC	C3B-C4B-NB	10.77	115.48	106.78
11	J7	1001	CYC	C3B-C4B-NB	10.76	115.47	106.78
11	N5	301	CYC	C3B-C4B-NB	10.76	115.47	106.78
11	K1	201	CYC	C3B-C4B-NB	10.76	115.47	106.78
11	X1	201	CYC	C3B-C4B-NB	10.76	115.47	106.78
11	G1	201	CYC	C3B-C4B-NB	10.75	115.46	106.78
11	Z5	201	CYC	C3B-C4B-NB	10.75	115.46	106.78
11	P1	201	CYC	C3B-C4B-NB	10.74	115.46	106.78
11	K5	201	CYC	C3B-C4B-NB	10.74	115.45	106.78
11	A1	301	CYC	C3B-C4B-NB	10.74	115.45	106.78
11	N1	301	CYC	C3B-C4B-NB	10.74	115.45	106.78
11	I1	201	CYC	C3B-C4B-NB	10.71	115.43	106.78
11	A5	301	CYC	C3B-C4B-NB	10.70	115.42	106.78
11	X5	201	CYC	C3B-C4B-NB	10.68	115.41	106.78
11	P5	201	CYC	C3B-C4B-NB	10.68	115.41	106.78
11	I5	201	CYC	C3B-C4B-NB	10.66	115.39	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Q5	201	CYC	C3B-C4B-NB	10.62	115.36	106.78
11	O1	201	CYC	C3B-C4B-NB	10.57	115.32	106.78
11	O5	201	CYC	C3B-C4B-NB	10.57	115.32	106.78
11	Q1	201	CYC	C3B-C4B-NB	10.56	115.31	106.78
11	C1	202	CYC	C3B-C4B-NB	10.55	115.30	106.78
11	C5	202	CYC	C3B-C4B-NB	10.54	115.30	106.78
11	F5	201	CYC	C3B-C4B-NB	10.54	115.30	106.78
11	S5	201	CYC	C3B-C4B-NB	10.54	115.30	106.78
11	S1	201	CYC	C3B-C4B-NB	10.54	115.29	106.78
11	H1	201	CYC	C3B-C4B-NB	10.54	115.29	106.78
11	B5	201	CYC	C3B-C4B-NB	10.54	115.29	106.78
11	X5	203	CYC	C3B-C4B-NB	10.53	115.29	106.78
11	J5	201	CYC	C3B-C4B-NB	10.53	115.28	106.78
11	X1	203	CYC	C3B-C4B-NB	10.53	115.28	106.78
11	V5	202	CYC	C3B-C4B-NB	10.52	115.28	106.78
11	L1	201	CYC	C3B-C4B-NB	10.52	115.27	106.78
11	J1	201	CYC	C3B-C4B-NB	10.50	115.26	106.78
11	F1	201	CYC	C3B-C4B-NB	10.50	115.26	106.78
11	U5	201	CYC	C3B-C4B-NB	10.49	115.25	106.78
11	H5	201	CYC	C3B-C4B-NB	10.49	115.25	106.78
11	L5	201	CYC	C3B-C4B-NB	10.49	115.25	106.78
11	B1	201	CYC	C3B-C4B-NB	10.48	115.25	106.78
11	V1	202	CYC	C3B-C4B-NB	10.48	115.24	106.78
11	U1	201	CYC	C3B-C4B-NB	10.47	115.24	106.78
11	A6	301	CYC	C3B-C4B-NB	10.08	114.92	106.78
11	E2	201	CYC	C3B-C4B-NB	10.07	114.92	106.78
11	Z6	201	CYC	C3B-C4B-NB	10.07	114.92	106.78
11	E6	201	CYC	C3B-C4B-NB	10.06	114.90	106.78
11	I6	201	CYC	C3B-C4B-NB	10.05	114.90	106.78
11	A2	301	CYC	C3B-C4B-NB	10.05	114.90	106.78
11	Z2	202	CYC	C3B-C4B-NB	10.04	114.89	106.78
11	P2	201	CYC	C3B-C4B-NB	10.04	114.89	106.78
11	N6	302	CYC	C3B-C4B-NB	10.03	114.88	106.78
11	X6	201	CYC	C3B-C4B-NB	10.03	114.88	106.78
11	M6	201	CYC	C3B-C4B-NB	10.02	114.87	106.78
11	I2	201	CYC	C3B-C4B-NB	10.01	114.87	106.78
11	M2	201	CYC	C3B-C4B-NB	10.01	114.87	106.78
11	X2	201	CYC	C3B-C4B-NB	10.01	114.86	106.78
11	P6	201	CYC	C3B-C4B-NB	10.01	114.86	106.78
11	C2	201	CYC	C3B-C4B-NB	9.99	114.85	106.78
11	C6	201	CYC	C3B-C4B-NB	9.99	114.85	106.78
11	N2	302	CYC	C3B-C4B-NB	9.97	114.84	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	K2	201	CYC	C3B-C4B-NB	9.97	114.83	106.78
11	K6	201	CYC	C3B-C4B-NB	9.97	114.83	106.78
11	N6	301	CYC	C3B-C4B-NB	9.97	114.83	106.78
11	V2	201	CYC	C3B-C4B-NB	9.95	114.82	106.78
11	N2	301	CYC	C3B-C4B-NB	9.94	114.81	106.78
11	V6	201	CYC	C3B-C4B-NB	9.93	114.80	106.78
11	M5	202	CYC	OB-C4B-C3B	-9.33	117.92	128.04
11	I5	202	CYC	OB-C4B-C3B	-9.31	117.93	128.04
11	R5	202	CYC	OB-C4B-C3B	-9.30	117.94	128.04
11	M1	202	CYC	OB-C4B-C3B	-9.30	117.95	128.04
11	T5	201	CYC	OB-C4B-C3B	-9.29	117.96	128.04
11	C5	201	CYC	OB-C4B-C3B	-9.28	117.97	128.04
11	X1	202	CYC	OB-C4B-C3B	-9.27	117.97	128.04
11	K1	202	CYC	OB-C4B-C3B	-9.27	117.98	128.04
11	I1	202	CYC	OB-C4B-C3B	-9.27	117.98	128.04
11	R1	202	CYC	OB-C4B-C3B	-9.27	117.98	128.04
11	U1	202	CYC	OB-C4B-C3B	-9.27	117.98	128.04
11	P1	202	CYC	OB-C4B-C3B	-9.26	117.99	128.04
11	K5	202	CYC	OB-C4B-C3B	-9.26	117.99	128.04
11	X5	202	CYC	OB-C4B-C3B	-9.26	117.99	128.04
11	T1	201	CYC	OB-C4B-C3B	-9.25	118.00	128.04
11	U5	202	CYC	OB-C4B-C3B	-9.25	118.00	128.04
11	C1	201	CYC	OB-C4B-C3B	-9.25	118.00	128.04
11	D5	201	CYC	OB-C4B-C3B	-9.23	118.02	128.04
11	Z5	202	CYC	OB-C4B-C3B	-9.23	118.02	128.04
11	G5	202	CYC	OB-C4B-C3B	-9.22	118.03	128.04
11	D1	201	CYC	OB-C4B-C3B	-9.22	118.04	128.04
11	Z1	202	CYC	OB-C4B-C3B	-9.21	118.04	128.04
11	P5	202	CYC	OB-C4B-C3B	-9.21	118.04	128.04
11	G1	202	CYC	OB-C4B-C3B	-9.21	118.05	128.04
11	V8	201	CYC	CAB-C3B-C4B	9.12	135.78	121.38
11	G4	202	CYC	CAB-C3B-C4B	9.12	135.78	121.38
11	T4	201	CYC	CAB-C3B-C4B	9.11	135.78	121.38
11	E4	201	CYC	CAB-C3B-C4B	9.11	135.76	121.38
11	K4	201	CYC	CAB-C3B-C4B	9.11	135.76	121.38
11	G8	202	CYC	CAB-C3B-C4B	9.10	135.76	121.38
11	I8	201	CYC	CAB-C3B-C4B	9.10	135.76	121.38
11	I4	201	CYC	CAB-C3B-C4B	9.10	135.75	121.38
11	P4	201	CYC	CAB-C3B-C4B	9.10	135.75	121.38
11	E8	201	CYC	CAB-C3B-C4B	9.10	135.75	121.38
11	V4	201	CYC	CAB-C3B-C4B	9.10	135.75	121.38
11	X4	201	CYC	CAB-C3B-C4B	9.10	135.75	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	K8	201	CYC	CAB-C3B-C4B	9.09	135.74	121.38
11	N8	301	CYC	CAB-C3B-C4B	9.09	135.73	121.38
11	T8	201	CYC	CAB-C3B-C4B	9.09	135.73	121.38
11	A4	301	CYC	CAB-C3B-C4B	9.08	135.73	121.38
11	P8	201	CYC	CAB-C3B-C4B	9.08	135.73	121.38
11	A8	301	CYC	CAB-C3B-C4B	9.08	135.72	121.38
11	Z8	201	CYC	CAB-C3B-C4B	9.08	135.72	121.38
11	M8	202	CYC	CAB-C3B-C4B	9.08	135.71	121.38
11	X8	201	CYC	CAB-C3B-C4B	9.07	135.71	121.38
11	Z4	201	CYC	CAB-C3B-C4B	9.07	135.70	121.38
11	M4	202	CYC	CAB-C3B-C4B	9.07	135.70	121.38
11	N4	301	CYC	CAB-C3B-C4B	9.07	135.70	121.38
11	j3	1001	CYC	O2A-CGA-CBA	8.49	141.31	114.03
11	J3	201	CYC	O2A-CGA-CBA	8.49	141.30	114.03
11	t3	1001	CYC	O2A-CGA-CBA	8.49	141.30	114.03
11	13	902	CYC	O2A-CGA-CBA	8.47	141.26	114.03
11	z3	1001	CYC	O2A-CGA-CBA	8.47	141.25	114.03
11	H3	1001	CYC	O2A-CGA-CBA	8.47	141.24	114.03
11	v3	1001	CYC	O2A-CGA-CBA	8.47	141.24	114.03
11	c3	1001	CYC	O2A-CGA-CBA	8.47	141.23	114.03
11	r3	1001	CYC	O2A-CGA-CBA	8.47	141.23	114.03
11	U3	1001	CYC	O2A-CGA-CBA	8.46	141.22	114.03
11	e3	1001	CYC	O2A-CGA-CBA	8.46	141.22	114.03
11	13	904	CYC	O2A-CGA-CBA	8.46	141.22	114.03
11	n3	1001	CYC	O2A-CGA-CBA	8.46	141.22	114.03
11	03	902	CYC	O2A-CGA-CBA	8.46	141.21	114.03
11	W3	1001	CYC	O2A-CGA-CBA	8.46	141.21	114.03
11	p3	1001	CYC	O2A-CGA-CBA	8.46	141.21	114.03
11	x3	1001	CYC	O2A-CGA-CBA	8.46	141.21	114.03
11	M3	201	CYC	O2A-CGA-CBA	8.46	141.21	114.03
11	O3	1001	CYC	O2A-CGA-CBA	8.46	141.20	114.03
11	l3	1001	CYC	O2A-CGA-CBA	8.46	141.20	114.03
11	13	903	CYC	O2A-CGA-CBA	8.45	141.19	114.03
11	S3	1001	CYC	O2A-CGA-CBA	8.45	141.18	114.03
11	S5	201	CYC	C2C-C1C-NC	8.31	115.44	108.27
11	B5	201	CYC	C2C-C1C-NC	8.31	115.43	108.27
11	B1	201	CYC	C2C-C1C-NC	8.29	115.42	108.27
11	Q1	201	CYC	C2C-C1C-NC	8.29	115.42	108.27
11	X1	203	CYC	C2C-C1C-NC	8.29	115.42	108.27
11	Q5	201	CYC	C2C-C1C-NC	8.29	115.42	108.27
11	L1	201	CYC	C2C-C1C-NC	8.28	115.41	108.27
11	S1	201	CYC	C2C-C1C-NC	8.28	115.41	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	X5	203	CYC	C2C-C1C-NC	8.27	115.40	108.27
11	F1	201	CYC	C2C-C1C-NC	8.27	115.40	108.27
11	U1	201	CYC	C2C-C1C-NC	8.26	115.39	108.27
11	L5	201	CYC	C2C-C1C-NC	8.25	115.39	108.27
11	O5	201	CYC	C2C-C1C-NC	8.25	115.39	108.27
11	H1	201	CYC	C2C-C1C-NC	8.25	115.38	108.27
11	O1	201	CYC	C2C-C1C-NC	8.24	115.38	108.27
11	C5	202	CYC	C2C-C1C-NC	8.24	115.38	108.27
11	C1	202	CYC	C2C-C1C-NC	8.24	115.37	108.27
11	H5	201	CYC	C2C-C1C-NC	8.23	115.37	108.27
11	F5	201	CYC	C2C-C1C-NC	8.22	115.36	108.27
11	U5	201	CYC	C2C-C1C-NC	8.22	115.36	108.27
11	V1	202	CYC	C2C-C1C-NC	8.22	115.36	108.27
11	J1	201	CYC	C2C-C1C-NC	8.21	115.35	108.27
11	V5	202	CYC	C2C-C1C-NC	8.20	115.34	108.27
11	J5	201	CYC	C2C-C1C-NC	8.17	115.31	108.27
11	A6	301	CYC	CAB-C3B-C4B	7.76	133.63	121.38
11	Z6	201	CYC	CAB-C3B-C4B	7.74	133.61	121.38
11	X6	201	CYC	CAB-C3B-C4B	7.74	133.60	121.38
11	A2	301	CYC	CAB-C3B-C4B	7.73	133.59	121.38
11	I6	201	CYC	CAB-C3B-C4B	7.72	133.57	121.38
11	X2	201	CYC	CAB-C3B-C4B	7.72	133.57	121.38
11	N6	301	CYC	CAB-C3B-C4B	7.72	133.57	121.38
11	E6	201	CYC	CAB-C3B-C4B	7.72	133.57	121.38
11	Z2	202	CYC	CAB-C3B-C4B	7.71	133.56	121.38
11	P6	201	CYC	CAB-C3B-C4B	7.70	133.55	121.38
11	E2	201	CYC	CAB-C3B-C4B	7.70	133.54	121.38
11	I2	201	CYC	CAB-C3B-C4B	7.70	133.54	121.38
11	N6	302	CYC	CAB-C3B-C4B	7.70	133.54	121.38
11	P2	201	CYC	CAB-C3B-C4B	7.69	133.53	121.38
11	C6	201	CYC	CAB-C3B-C4B	7.69	133.52	121.38
11	N2	301	CYC	CAB-C3B-C4B	7.68	133.52	121.38
11	N2	302	CYC	CAB-C3B-C4B	7.68	133.51	121.38
11	M2	201	CYC	CAB-C3B-C4B	7.68	133.51	121.38
11	V2	201	CYC	CAB-C3B-C4B	7.68	133.51	121.38
11	M6	201	CYC	CAB-C3B-C4B	7.68	133.51	121.38
11	C2	201	CYC	CAB-C3B-C4B	7.68	133.51	121.38
11	K2	201	CYC	CAB-C3B-C4B	7.68	133.51	121.38
11	V6	201	CYC	CAB-C3B-C4B	7.67	133.50	121.38
11	K6	201	CYC	CAB-C3B-C4B	7.67	133.49	121.38
11	m3	201	CYC	OB-C4B-C3B	-7.42	119.98	128.04
11	V3	201	CYC	OB-C4B-C3B	-7.40	120.01	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	S1	201	CYC	O2A-CGA-CBA	7.38	137.75	114.03
11	O1	201	CYC	O2A-CGA-CBA	7.38	137.73	114.03
11	F1	201	CYC	O2A-CGA-CBA	7.37	137.72	114.03
11	S5	201	CYC	O2A-CGA-CBA	7.37	137.72	114.03
11	O5	201	CYC	O2A-CGA-CBA	7.37	137.71	114.03
11	L5	201	CYC	O2A-CGA-CBA	7.37	137.71	114.03
11	F5	201	CYC	O2A-CGA-CBA	7.37	137.71	114.03
11	Q5	201	CYC	O2A-CGA-CBA	7.36	137.69	114.03
11	H5	201	CYC	O2A-CGA-CBA	7.36	137.69	114.03
11	J1	201	CYC	O2A-CGA-CBA	7.36	137.69	114.03
11	L1	201	CYC	O2A-CGA-CBA	7.36	137.69	114.03
11	U1	201	CYC	O2A-CGA-CBA	7.36	137.69	114.03
11	C5	202	CYC	O2A-CGA-CBA	7.36	137.68	114.03
11	C1	202	CYC	O2A-CGA-CBA	7.36	137.68	114.03
11	U5	201	CYC	O2A-CGA-CBA	7.36	137.68	114.03
11	V1	202	CYC	O2A-CGA-CBA	7.36	137.68	114.03
11	V5	202	CYC	O2A-CGA-CBA	7.36	137.67	114.03
11	H1	201	CYC	O2A-CGA-CBA	7.36	137.67	114.03
11	I4	203	CYC	CAB-C3B-C4B	7.36	133.00	121.38
11	D8	201	CYC	CAB-C3B-C4B	7.36	133.00	121.38
11	X5	203	CYC	O2A-CGA-CBA	7.36	137.67	114.03
11	Q1	201	CYC	O2A-CGA-CBA	7.36	137.66	114.03
11	X1	203	CYC	O2A-CGA-CBA	7.35	137.66	114.03
11	D4	201	CYC	CAB-C3B-C4B	7.35	132.99	121.38
11	G8	201	CYC	CAB-C3B-C4B	7.35	132.99	121.38
11	B1	201	CYC	O2A-CGA-CBA	7.35	137.65	114.03
11	J5	201	CYC	O2A-CGA-CBA	7.35	137.64	114.03
11	B5	201	CYC	O2A-CGA-CBA	7.35	137.64	114.03
11	I8	203	CYC	CAB-C3B-C4B	7.34	132.98	121.38
11	G4	201	CYC	CAB-C3B-C4B	7.34	132.97	121.38
11	M8	201	CYC	CAB-C3B-C4B	7.34	132.97	121.38
11	Y8	201	CYC	CAB-C3B-C4B	7.33	132.96	121.38
11	M4	201	CYC	CAB-C3B-C4B	7.33	132.96	121.38
11	U8	201	CYC	CAB-C3B-C4B	7.33	132.96	121.38
11	E4	203	CYC	CAB-C3B-C4B	7.33	132.95	121.38
11	E8	203	CYC	CAB-C3B-C4B	7.33	132.95	121.38
11	W8	201	CYC	CAB-C3B-C4B	7.33	132.95	121.38
11	U4	201	CYC	CAB-C3B-C4B	7.32	132.95	121.38
11	S4	201	CYC	CAB-C3B-C4B	7.32	132.94	121.38
11	O8	201	CYC	CAB-C3B-C4B	7.32	132.94	121.38
11	W4	201	CYC	CAB-C3B-C4B	7.31	132.93	121.38
11	S8	201	CYC	CAB-C3B-C4B	7.31	132.93	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	P8	203	CYC	CAB-C3B-C4B	7.31	132.92	121.38
11	Y4	201	CYC	CAB-C3B-C4B	7.31	132.92	121.38
11	L4	201	CYC	CAB-C3B-C4B	7.30	132.91	121.38
11	O4	201	CYC	CAB-C3B-C4B	7.30	132.90	121.38
11	L8	201	CYC	CAB-C3B-C4B	7.30	132.90	121.38
11	P4	203	CYC	CAB-C3B-C4B	7.27	132.87	121.38
11	u3	1001	CYC	OB-C4B-C3B	-7.02	120.42	128.04
11	Z3	1001	CYC	OB-C4B-C3B	-7.01	120.43	128.04
11	k3	1001	CYC	OB-C4B-C3B	-7.00	120.45	128.04
11	d3	1001	CYC	OB-C4B-C3B	-6.99	120.45	128.04
11	T3	1001	CYC	OB-C4B-C3B	-6.99	120.45	128.04
11	I3	1001	CYC	OB-C4B-C3B	-6.99	120.46	128.04
11	G3	1001	CYC	OB-C4B-C3B	-6.97	120.47	128.04
11	w3	1001	CYC	OB-C4B-C3B	-6.97	120.47	128.04
11	P3	1001	CYC	OB-C4B-C3B	-6.96	120.48	128.04
11	y3	1001	CYC	OB-C4B-C3B	-6.96	120.48	128.04
11	f3	1001	CYC	OB-C4B-C3B	-6.96	120.49	128.04
11	o3	1001	CYC	OB-C4B-C3B	-6.96	120.49	128.04
11	i3	1001	CYC	OB-C4B-C3B	-6.95	120.49	128.04
11	V5	201	CYC	C4D-CHA-C1A	6.95	137.11	128.81
11	C6	203	CYC	CAB-C3B-C4B	6.95	132.35	121.38
11	W2	201	CYC	CAB-C3B-C4B	6.95	132.35	121.38
11	A1	301	CYC	C4D-CHA-C1A	6.95	137.11	128.81
11	V1	201	CYC	C4D-CHA-C1A	6.95	137.11	128.81
11	s3	1001	CYC	OB-C4B-C3B	-6.95	120.50	128.04
11	N1	301	CYC	C4D-CHA-C1A	6.94	137.10	128.81
11	G1	201	CYC	C4D-CHA-C1A	6.94	137.10	128.81
11	U6	201	CYC	CAB-C3B-C4B	6.94	132.34	121.38
11	X5	201	CYC	C4D-CHA-C1A	6.94	137.10	128.81
11	q3	1001	CYC	OB-C4B-C3B	-6.94	120.51	128.04
11	R6	202	CYC	CAB-C3B-C4B	6.94	132.34	121.38
11	P5	201	CYC	C4D-CHA-C1A	6.94	137.10	128.81
11	X3	1001	CYC	OB-C4B-C3B	-6.94	120.51	128.04
11	S2	201	CYC	CAB-C3B-C4B	6.94	132.34	121.38
11	R3	1001	CYC	OB-C4B-C3B	-6.94	120.51	128.04
11	N5	301	CYC	C4D-CHA-C1A	6.93	137.09	128.81
11	W6	201	CYC	CAB-C3B-C4B	6.93	132.33	121.38
11	I5	201	CYC	C4D-CHA-C1A	6.93	137.09	128.81
11	K3	1001	CYC	OB-C4B-C3B	-6.93	120.52	128.04
11	A1	302	CYC	C4D-CHA-C1A	6.93	137.09	128.81
11	A5	301	CYC	C4D-CHA-C1A	6.93	137.09	128.81
11	J6	201	CYC	CAB-C3B-C4B	6.93	132.32	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Z1	201	CYC	C4D-CHA-C1A	6.93	137.08	128.81
11	Z5	201	CYC	C4D-CHA-C1A	6.92	137.08	128.81
11	b3	1001	CYC	OB-C4B-C3B	-6.92	120.53	128.04
11	K5	201	CYC	C4D-CHA-C1A	6.92	137.08	128.81
11	K2	203	CYC	CAB-C3B-C4B	6.92	132.31	121.38
11	L6	201	CYC	CAB-C3B-C4B	6.92	132.31	121.38
11	K1	201	CYC	C4D-CHA-C1A	6.92	137.08	128.81
11	P1	201	CYC	C4D-CHA-C1A	6.92	137.08	128.81
11	Y6	201	CYC	CAB-C3B-C4B	6.92	132.31	121.38
11	T2	201	CYC	CAB-C3B-C4B	6.92	132.31	121.38
11	R1	201	CYC	C4D-CHA-C1A	6.92	137.07	128.81
11	I2	203	CYC	CAB-C3B-C4B	6.92	132.30	121.38
11	N3	1001	CYC	OB-C4B-C3B	-6.92	120.53	128.04
11	D2	201	CYC	CAB-C3B-C4B	6.91	132.30	121.38
11	H6	201	CYC	CAB-C3B-C4B	6.91	132.30	121.38
11	Z2	201	CYC	CAB-C3B-C4B	6.91	132.30	121.38
11	X2	203	CYC	CAB-C3B-C4B	6.91	132.30	121.38
11	H2	201	CYC	CAB-C3B-C4B	6.91	132.30	121.38
11	R5	201	CYC	C4D-CHA-C1A	6.91	137.07	128.81
11	O6	201	CYC	CAB-C3B-C4B	6.91	132.30	121.38
11	I1	201	CYC	C4D-CHA-C1A	6.91	137.06	128.81
11	F6	201	CYC	CAB-C3B-C4B	6.91	132.29	121.38
11	X1	201	CYC	C4D-CHA-C1A	6.91	137.06	128.81
11	E2	203	CYC	CAB-C3B-C4B	6.91	132.29	121.38
11	G5	201	CYC	C4D-CHA-C1A	6.90	137.06	128.81
11	M5	201	CYC	C4D-CHA-C1A	6.90	137.05	128.81
11	B2	201	CYC	CAB-C3B-C4B	6.90	132.27	121.38
11	A5	302	CYC	C4D-CHA-C1A	6.89	137.04	128.81
11	M1	201	CYC	C4D-CHA-C1A	6.89	137.04	128.81
11	Q2	201	CYC	CAB-C3B-C4B	6.89	132.26	121.38
11	B6	201	CYC	CAB-C3B-C4B	6.89	132.26	121.38
11	Q6	201	CYC	CAB-C3B-C4B	6.87	132.23	121.38
11	K7	1001	CYC	CHD-C4C-NC	6.80	133.29	125.20
11	F7	1001	CYC	CHD-C4C-NC	6.79	133.28	125.20
11	R7	1001	CYC	CHD-C4C-NC	6.79	133.28	125.20
11	T7	1001	CYC	CHD-C4C-NC	6.79	133.27	125.20
11	B7	1001	CYC	CHD-C4C-NC	6.79	133.27	125.20
11	W7	1001	CYC	CHD-C4C-NC	6.78	133.27	125.20
11	N5	301	CYC	CHB-C4A-NA	-6.78	110.75	124.93
11	I7	1001	CYC	CHD-C4C-NC	6.78	133.26	125.20
11	K5	201	CYC	CHB-C4A-NA	-6.78	110.76	124.93
11	Z1	201	CYC	CHB-C4A-NA	-6.77	110.76	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Z5	201	CYC	CHB-C4A-NA	-6.77	110.77	124.93
11	A1	301	CYC	CHB-C4A-NA	-6.77	110.77	124.93
11	K1	201	CYC	CHB-C4A-NA	-6.77	110.78	124.93
11	I1	201	CYC	CHB-C4A-NA	-6.77	110.78	124.93
11	Y7	1001	CYC	CHD-C4C-NC	6.76	133.25	125.20
11	X1	201	CYC	CHB-C4A-NA	-6.76	110.79	124.93
11	P7	1001	CYC	CHD-C4C-NC	6.76	133.25	125.20
11	a7	1001	CYC	CHD-C4C-NC	6.76	133.25	125.20
11	D7	1001	CYC	CHD-C4C-NC	6.76	133.24	125.20
11	N1	301	CYC	CHB-C4A-NA	-6.76	110.79	124.93
11	I5	201	CYC	CHB-C4A-NA	-6.76	110.79	124.93
11	M5	201	CYC	CHB-C4A-NA	-6.76	110.80	124.93
11	A5	301	CYC	CHB-C4A-NA	-6.75	110.80	124.93
11	R5	201	CYC	CHB-C4A-NA	-6.75	110.80	124.93
11	M7	1001	CYC	CHD-C4C-NC	6.75	133.23	125.20
11	P5	201	CYC	CHB-C4A-NA	-6.75	110.81	124.93
11	X5	201	CYC	CHB-C4A-NA	-6.75	110.81	124.93
11	P1	201	CYC	CHB-C4A-NA	-6.75	110.82	124.93
11	R1	201	CYC	CHB-C4A-NA	-6.74	110.82	124.93
11	V1	201	CYC	CHB-C4A-NA	-6.74	110.83	124.93
11	M1	201	CYC	CHB-C4A-NA	-6.74	110.83	124.93
11	A1	302	CYC	CHB-C4A-NA	-6.74	110.84	124.93
11	G5	201	CYC	CHB-C4A-NA	-6.72	110.87	124.93
11	G1	201	CYC	CHB-C4A-NA	-6.72	110.88	124.93
11	T3	1001	CYC	CHA-C1A-NA	-6.71	119.51	128.83
11	V5	201	CYC	CHB-C4A-NA	-6.71	110.89	124.93
11	A5	302	CYC	CHB-C4A-NA	-6.71	110.89	124.93
11	G3	1001	CYC	CHA-C1A-NA	-6.71	119.52	128.83
11	b3	1001	CYC	CHA-C1A-NA	-6.71	119.52	128.83
11	o3	1001	CYC	CHA-C1A-NA	-6.71	119.52	128.83
11	Z3	1001	CYC	CHA-C1A-NA	-6.71	119.52	128.83
11	y3	1001	CYC	CHA-C1A-NA	-6.70	119.53	128.83
11	X3	1001	CYC	CHA-C1A-NA	-6.69	119.55	128.83
11	P3	1001	CYC	CHA-C1A-NA	-6.69	119.55	128.83
11	f3	1001	CYC	CHA-C1A-NA	-6.68	119.56	128.83
11	d3	1001	CYC	CHA-C1A-NA	-6.68	119.56	128.83
11	i3	1001	CYC	CHA-C1A-NA	-6.68	119.56	128.83
11	Q5	201	CYC	CAB-C3B-C4B	6.68	131.93	121.38
11	I3	1001	CYC	CHA-C1A-NA	-6.68	119.57	128.83
11	K3	1001	CYC	CHA-C1A-NA	-6.68	119.57	128.83
11	R3	1001	CYC	CHA-C1A-NA	-6.68	119.57	128.83
11	S5	201	CYC	CAB-C3B-C4B	6.67	131.92	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	q3	1001	CYC	CHA-C1A-NA	-6.67	119.57	128.83
11	O1	201	CYC	CAB-C3B-C4B	6.67	131.91	121.38
11	O5	201	CYC	CAB-C3B-C4B	6.67	131.91	121.38
11	C5	202	CYC	CAB-C3B-C4B	6.67	131.91	121.38
11	k3	1001	CYC	CHA-C1A-NA	-6.66	119.58	128.83
11	u3	1001	CYC	CHA-C1A-NA	-6.66	119.58	128.83
11	w3	1001	CYC	CHA-C1A-NA	-6.66	119.59	128.83
11	B5	201	CYC	CAB-C3B-C4B	6.66	131.90	121.38
11	C1	202	CYC	CAB-C3B-C4B	6.66	131.89	121.38
11	s3	1001	CYC	CHA-C1A-NA	-6.66	119.59	128.83
11	Q1	201	CYC	CAB-C3B-C4B	6.65	131.89	121.38
11	N3	1001	CYC	CHA-C1A-NA	-6.65	119.60	128.83
11	H1	201	CYC	CAB-C3B-C4B	6.65	131.88	121.38
11	X5	203	CYC	CAB-C3B-C4B	6.65	131.88	121.38
11	S1	201	CYC	CAB-C3B-C4B	6.65	131.88	121.38
11	H5	201	CYC	CAB-C3B-C4B	6.65	131.88	121.38
11	X1	203	CYC	CAB-C3B-C4B	6.65	131.88	121.38
11	B1	201	CYC	CAB-C3B-C4B	6.64	131.87	121.38
11	F5	201	CYC	CAB-C3B-C4B	6.64	131.86	121.38
11	J5	201	CYC	CAB-C3B-C4B	6.63	131.86	121.38
11	V5	202	CYC	CAB-C3B-C4B	6.63	131.86	121.38
11	J1	201	CYC	CAB-C3B-C4B	6.63	131.85	121.38
11	U5	201	CYC	CAB-C3B-C4B	6.63	131.84	121.38
11	J3	201	CYC	CHB-C4A-NA	-6.62	111.08	124.93
11	l3	1001	CYC	CHB-C4A-NA	-6.62	111.09	124.93
11	L1	201	CYC	CAB-C3B-C4B	6.62	131.83	121.38
11	13	904	CYC	CHB-C4A-NA	-6.62	111.09	124.93
11	03	902	CYC	CHB-C4A-NA	-6.62	111.09	124.93
11	F1	201	CYC	CAB-C3B-C4B	6.61	131.83	121.38
11	S3	1001	CYC	CHB-C4A-NA	-6.61	111.10	124.93
11	U1	201	CYC	CAB-C3B-C4B	6.61	131.82	121.38
11	V1	202	CYC	CAB-C3B-C4B	6.61	131.82	121.38
11	U3	1001	CYC	CHB-C4A-NA	-6.61	111.10	124.93
11	n3	1001	CYC	CHB-C4A-NA	-6.61	111.11	124.93
11	L5	201	CYC	CAB-C3B-C4B	6.61	131.81	121.38
11	t3	1001	CYC	CHB-C4A-NA	-6.61	111.11	124.93
11	p3	1001	CYC	CHB-C4A-NA	-6.61	111.11	124.93
11	x3	1001	CYC	CHB-C4A-NA	-6.60	111.12	124.93
11	j3	1001	CYC	CHB-C4A-NA	-6.60	111.12	124.93
11	H3	1001	CYC	CHB-C4A-NA	-6.60	111.12	124.93
11	z3	1001	CYC	CHB-C4A-NA	-6.60	111.12	124.93
11	v3	1001	CYC	CHB-C4A-NA	-6.60	111.12	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	13	902	CYC	CHB-C4A-NA	-6.60	111.13	124.93
11	c3	1001	CYC	CHB-C4A-NA	-6.60	111.13	124.93
11	13	903	CYC	CHB-C4A-NA	-6.60	111.13	124.93
11	e3	1001	CYC	CHB-C4A-NA	-6.60	111.14	124.93
11	f3	1001	CYC	CHB-C4A-NA	-6.59	111.14	124.93
11	k3	1001	CYC	CHB-C4A-NA	-6.59	111.15	124.93
11	M3	201	CYC	CHB-C4A-NA	-6.59	111.15	124.93
11	Z3	1001	CYC	CHB-C4A-NA	-6.59	111.15	124.93
11	o3	1001	CYC	CHB-C4A-NA	-6.59	111.16	124.93
11	W3	1001	CYC	CHB-C4A-NA	-6.58	111.16	124.93
11	O3	1001	CYC	CHB-C4A-NA	-6.58	111.16	124.93
11	w3	1001	CYC	CHB-C4A-NA	-6.58	111.16	124.93
11	P3	1001	CYC	CHB-C4A-NA	-6.58	111.17	124.93
11	r3	1001	CYC	CHB-C4A-NA	-6.58	111.17	124.93
11	G3	1001	CYC	CHB-C4A-NA	-6.58	111.17	124.93
11	y3	1001	CYC	CHB-C4A-NA	-6.58	111.17	124.93
11	X3	1001	CYC	CHB-C4A-NA	-6.57	111.18	124.93
11	N3	1001	CYC	CHB-C4A-NA	-6.57	111.18	124.93
11	K3	1001	CYC	CHB-C4A-NA	-6.57	111.19	124.93
11	i3	1001	CYC	CHB-C4A-NA	-6.57	111.19	124.93
11	s3	1001	CYC	CHB-C4A-NA	-6.57	111.19	124.93
11	d3	1001	CYC	CHB-C4A-NA	-6.57	111.19	124.93
11	u3	1001	CYC	CHB-C4A-NA	-6.57	111.19	124.93
11	q3	1001	CYC	CHB-C4A-NA	-6.57	111.20	124.93
11	T3	1001	CYC	CHB-C4A-NA	-6.56	111.20	124.93
11	b3	1001	CYC	CHB-C4A-NA	-6.56	111.20	124.93
11	R3	1001	CYC	CHB-C4A-NA	-6.56	111.20	124.93
11	I3	1001	CYC	CHB-C4A-NA	-6.56	111.21	124.93
11	Z6	201	CYC	O2A-CGA-CBA	6.44	134.73	114.03
11	N2	302	CYC	O2A-CGA-CBA	6.44	134.72	114.03
11	I2	201	CYC	O2A-CGA-CBA	6.44	134.72	114.03
11	V6	201	CYC	O2A-CGA-CBA	6.44	134.71	114.03
11	V2	201	CYC	O2A-CGA-CBA	6.44	134.71	114.03
11	Z2	202	CYC	O2A-CGA-CBA	6.44	134.71	114.03
11	P6	201	CYC	O2A-CGA-CBA	6.43	134.70	114.03
11	C2	201	CYC	O2A-CGA-CBA	6.43	134.70	114.03
11	I6	201	CYC	O2A-CGA-CBA	6.43	134.69	114.03
11	E6	201	CYC	O2A-CGA-CBA	6.43	134.69	114.03
11	P2	201	CYC	O2A-CGA-CBA	6.43	134.69	114.03
11	E2	201	CYC	O2A-CGA-CBA	6.43	134.68	114.03
11	N6	302	CYC	O2A-CGA-CBA	6.43	134.68	114.03
11	M2	201	CYC	O2A-CGA-CBA	6.43	134.68	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	K6	201	CYC	O2A-CGA-CBA	6.42	134.67	114.03
11	N6	301	CYC	O2A-CGA-CBA	6.42	134.67	114.03
11	A2	301	CYC	O2A-CGA-CBA	6.42	134.67	114.03
11	K2	201	CYC	O2A-CGA-CBA	6.42	134.67	114.03
11	C6	201	CYC	O2A-CGA-CBA	6.42	134.66	114.03
11	N2	301	CYC	O2A-CGA-CBA	6.42	134.66	114.03
11	A6	301	CYC	O2A-CGA-CBA	6.42	134.66	114.03
11	X2	201	CYC	O2A-CGA-CBA	6.42	134.65	114.03
11	X6	201	CYC	O2A-CGA-CBA	6.41	134.62	114.03
11	M6	201	CYC	O2A-CGA-CBA	6.41	134.62	114.03
11	B5	201	CYC	CHD-C4C-NC	6.40	132.82	125.20
11	B1	201	CYC	CHD-C4C-NC	6.38	132.79	125.20
11	J5	201	CYC	CHD-C4C-NC	6.36	132.77	125.20
11	L5	201	CYC	CHD-C4C-NC	6.36	132.77	125.20
11	V5	202	CYC	CHD-C4C-NC	6.35	132.75	125.20
11	C1	202	CYC	CHD-C4C-NC	6.35	132.75	125.20
11	Q5	201	CYC	CHD-C4C-NC	6.35	132.75	125.20
11	J1	201	CYC	CHD-C4C-NC	6.34	132.75	125.20
11	S1	201	CYC	CHD-C4C-NC	6.34	132.75	125.20
11	C5	202	CYC	CHD-C4C-NC	6.34	132.74	125.20
11	F5	201	CYC	CHD-C4C-NC	6.34	132.74	125.20
11	Q1	201	CYC	CHD-C4C-NC	6.33	132.73	125.20
11	H5	201	CYC	CHD-C4C-NC	6.33	132.73	125.20
11	W6	201	CYC	CHA-C1A-NA	-6.33	120.05	128.83
11	V1	202	CYC	CHD-C4C-NC	6.33	132.73	125.20
11	F1	201	CYC	CHD-C4C-NC	6.33	132.73	125.20
11	L1	201	CYC	CHD-C4C-NC	6.32	132.72	125.20
11	X1	203	CYC	CHD-C4C-NC	6.32	132.72	125.20
11	S5	201	CYC	CHD-C4C-NC	6.32	132.72	125.20
11	X5	203	CYC	CHD-C4C-NC	6.32	132.72	125.20
11	K2	203	CYC	CHA-C1A-NA	-6.32	120.06	128.83
11	W2	201	CYC	CHA-C1A-NA	-6.32	120.06	128.83
11	U1	201	CYC	CHD-C4C-NC	6.32	132.72	125.20
11	Y6	201	CYC	CHA-C1A-NA	-6.32	120.06	128.83
11	H1	201	CYC	CHD-C4C-NC	6.31	132.71	125.20
11	C6	203	CYC	CHA-C1A-NA	-6.31	120.08	128.83
11	X2	203	CYC	CHA-C1A-NA	-6.31	120.08	128.83
11	L6	201	CYC	CHA-C1A-NA	-6.31	120.08	128.83
11	U5	201	CYC	CHD-C4C-NC	6.31	132.70	125.20
11	B2	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
11	D2	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
11	O5	201	CYC	CHD-C4C-NC	6.30	132.69	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	J6	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
11	O1	201	CYC	CHD-C4C-NC	6.29	132.69	125.20
11	S2	201	CYC	CHA-C1A-NA	-6.29	120.10	128.83
11	Q2	201	CYC	CHA-C1A-NA	-6.29	120.10	128.83
11	Q6	201	CYC	CHA-C1A-NA	-6.29	120.10	128.83
11	F6	201	CYC	CHA-C1A-NA	-6.28	120.11	128.83
11	I2	203	CYC	CHA-C1A-NA	-6.28	120.12	128.83
11	Q3	1001	CYC	CMA-C3A-C4A	6.28	134.73	125.06
11	E2	203	CYC	CHA-C1A-NA	-6.27	120.12	128.83
11	T2	201	CYC	CHA-C1A-NA	-6.27	120.13	128.83
11	P7	1001	CYC	CAB-C3B-C4B	6.27	131.28	121.38
11	H6	201	CYC	CHA-C1A-NA	-6.27	120.13	128.83
11	H2	201	CYC	CHA-C1A-NA	-6.27	120.13	128.83
11	R6	202	CYC	CHA-C1A-NA	-6.27	120.13	128.83
11	g3	1001	CYC	CMA-C3A-C4A	6.27	134.72	125.06
11	a7	1001	CYC	CAB-C3B-C4B	6.27	131.28	121.38
11	I7	1001	CYC	CAB-C3B-C4B	6.26	131.27	121.38
11	B6	201	CYC	CHA-C1A-NA	-6.26	120.14	128.83
11	O6	201	CYC	CHA-C1A-NA	-6.26	120.15	128.83
11	Z2	201	CYC	CHA-C1A-NA	-6.25	120.15	128.83
11	R7	1001	CYC	CAB-C3B-C4B	6.25	131.25	121.38
11	K7	1001	CYC	CAB-C3B-C4B	6.25	131.25	121.38
11	F7	1001	CYC	CAB-C3B-C4B	6.24	131.24	121.38
11	M7	1001	CYC	CAB-C3B-C4B	6.24	131.23	121.38
11	Y7	1001	CYC	CAB-C3B-C4B	6.23	131.22	121.38
11	D7	1001	CYC	CAB-C3B-C4B	6.23	131.21	121.38
11	B7	1001	CYC	CAB-C3B-C4B	6.22	131.21	121.38
11	T7	1001	CYC	CAB-C3B-C4B	6.22	131.21	121.38
11	m3	201	CYC	CHA-C1A-NA	-6.22	120.20	128.83
11	U6	201	CYC	CHA-C1A-NA	-6.22	120.21	128.83
11	W7	1001	CYC	CAB-C3B-C4B	6.20	131.18	121.38
11	V3	201	CYC	CHA-C1A-NA	-6.20	120.23	128.83
11	N6	301	CYC	CHA-C1A-NA	-6.19	120.24	128.83
11	H3	1001	CYC	OB-C4B-C3B	-6.18	121.33	128.04
11	A6	301	CYC	CHA-C1A-NA	-6.18	120.25	128.83
11	I6	201	CYC	CHA-C1A-NA	-6.18	120.25	128.83
11	J3	201	CYC	OB-C4B-C3B	-6.18	121.34	128.04
11	A2	301	CYC	CHA-C1A-NA	-6.17	120.27	128.83
11	I2	201	CYC	CHA-C1A-NA	-6.17	120.28	128.83
11	P2	201	CYC	CHA-C1A-NA	-6.16	120.28	128.83
11	S3	1001	CYC	OB-C4B-C3B	-6.16	121.35	128.04
11	K6	201	CYC	CHA-C1A-NA	-6.16	120.28	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	N2	301	CYC	CHA-C1A-NA	-6.16	120.29	128.83
11	X6	201	CYC	CHA-C1A-NA	-6.16	120.29	128.83
11	V6	201	CYC	CHA-C1A-NA	-6.16	120.29	128.83
11	z3	1001	CYC	OB-C4B-C3B	-6.15	121.36	128.04
11	N2	302	CYC	CHA-C1A-NA	-6.15	120.30	128.83
11	P6	201	CYC	CHA-C1A-NA	-6.15	120.30	128.83
11	N6	302	CYC	CHA-C1A-NA	-6.15	120.30	128.83
11	E6	201	CYC	CHA-C1A-NA	-6.15	120.30	128.83
11	U3	1001	CYC	OB-C4B-C3B	-6.15	121.37	128.04
11	C2	201	CYC	CHA-C1A-NA	-6.15	120.30	128.83
11	K2	201	CYC	CHA-C1A-NA	-6.15	120.30	128.83
11	Z2	202	CYC	CHA-C1A-NA	-6.15	120.30	128.83
11	r3	1001	CYC	OB-C4B-C3B	-6.15	121.37	128.04
11	E2	201	CYC	CHA-C1A-NA	-6.14	120.31	128.83
11	13	902	CYC	OB-C4B-C3B	-6.14	121.37	128.04
11	x3	1001	CYC	OB-C4B-C3B	-6.14	121.38	128.04
11	X2	201	CYC	CHA-C1A-NA	-6.14	120.31	128.83
11	M6	201	CYC	CHA-C1A-NA	-6.14	120.32	128.83
11	V2	201	CYC	CHA-C1A-NA	-6.13	120.32	128.83
11	n3	1001	CYC	OB-C4B-C3B	-6.13	121.39	128.04
11	Z6	201	CYC	CHA-C1A-NA	-6.13	120.33	128.83
11	M2	201	CYC	CHA-C1A-NA	-6.13	120.33	128.83
11	c3	1001	CYC	OB-C4B-C3B	-6.12	121.40	128.04
11	p3	1001	CYC	OB-C4B-C3B	-6.12	121.40	128.04
11	M3	201	CYC	OB-C4B-C3B	-6.12	121.40	128.04
11	O3	1001	CYC	OB-C4B-C3B	-6.12	121.40	128.04
11	C6	201	CYC	CHA-C1A-NA	-6.12	120.34	128.83
11	e3	1001	CYC	OB-C4B-C3B	-6.12	121.40	128.04
11	v3	1001	CYC	OB-C4B-C3B	-6.11	121.41	128.04
11	03	902	CYC	OB-C4B-C3B	-6.11	121.41	128.04
11	13	904	CYC	OB-C4B-C3B	-6.10	121.42	128.04
11	13	903	CYC	OB-C4B-C3B	-6.10	121.42	128.04
11	j3	1001	CYC	OB-C4B-C3B	-6.10	121.42	128.04
11	W3	1001	CYC	OB-C4B-C3B	-6.09	121.43	128.04
11	t3	1001	CYC	OB-C4B-C3B	-6.09	121.43	128.04
11	l3	1001	CYC	OB-C4B-C3B	-6.08	121.44	128.04
11	X4	201	CYC	CAC-C3C-C4C	-6.05	97.13	112.67
11	T4	201	CYC	CAC-C3C-C4C	-6.05	97.14	112.67
11	X8	201	CYC	CAC-C3C-C4C	-6.04	97.16	112.67
11	T8	201	CYC	CAC-C3C-C4C	-6.04	97.16	112.67
11	I4	201	CYC	CAC-C3C-C4C	-6.04	97.17	112.67
11	E4	201	CYC	CAC-C3C-C4C	-6.04	97.17	112.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	P4	201	CYC	CAC-C3C-C4C	-6.03	97.18	112.67
11	E8	201	CYC	CAC-C3C-C4C	-6.03	97.19	112.67
11	N4	301	CYC	CAC-C3C-C4C	-6.03	97.19	112.67
11	V8	201	CYC	CAC-C3C-C4C	-6.03	97.19	112.67
11	A8	301	CYC	CAC-C3C-C4C	-6.03	97.20	112.67
11	V4	201	CYC	CAC-C3C-C4C	-6.03	97.20	112.67
11	I8	201	CYC	CAC-C3C-C4C	-6.02	97.20	112.67
11	M8	202	CYC	CAC-C3C-C4C	-6.02	97.20	112.67
11	A4	301	CYC	CAC-C3C-C4C	-6.02	97.20	112.67
11	N8	301	CYC	CAC-C3C-C4C	-6.02	97.21	112.67
11	G8	202	CYC	CAC-C3C-C4C	-6.02	97.21	112.67
11	K8	201	CYC	CAC-C3C-C4C	-6.02	97.22	112.67
11	P8	201	CYC	CAC-C3C-C4C	-6.02	97.22	112.67
11	M4	202	CYC	CAC-C3C-C4C	-6.02	97.23	112.67
11	Z8	201	CYC	CAC-C3C-C4C	-6.01	97.23	112.67
11	G4	202	CYC	CAC-C3C-C4C	-6.01	97.23	112.67
11	K4	201	CYC	CAC-C3C-C4C	-6.01	97.24	112.67
11	Z4	201	CYC	CAC-C3C-C4C	-6.01	97.24	112.67
11	F7	1001	CYC	CHB-C4A-NA	-6.01	112.36	124.93
11	Y7	1001	CYC	CHB-C4A-NA	-6.00	112.37	124.93
11	T7	1001	CYC	CHB-C4A-NA	-6.00	112.37	124.93
11	W7	1001	CYC	CHB-C4A-NA	-6.00	112.37	124.93
11	M7	1001	CYC	CHB-C4A-NA	-5.99	112.39	124.93
11	R7	1001	CYC	CHB-C4A-NA	-5.99	112.40	124.93
11	K7	1001	CYC	CHB-C4A-NA	-5.99	112.41	124.93
11	P7	1001	CYC	CHB-C4A-NA	-5.98	112.42	124.93
11	I7	1001	CYC	CHB-C4A-NA	-5.98	112.43	124.93
11	B7	1001	CYC	CHB-C4A-NA	-5.98	112.43	124.93
11	D7	1001	CYC	CHB-C4A-NA	-5.97	112.44	124.93
11	a7	1001	CYC	CHB-C4A-NA	-5.97	112.45	124.93
11	03	901	CYC	CAB-C3B-C4B	5.95	130.78	121.38
11	K1	201	CYC	CAC-C3C-C4C	-5.94	97.42	112.67
11	N1	301	CYC	CAC-C3C-C4C	-5.94	97.42	112.67
11	G5	201	CYC	CAC-C3C-C4C	-5.94	97.43	112.67
11	N5	301	CYC	CAC-C3C-C4C	-5.94	97.43	112.67
11	13	901	CYC	CAB-C3B-C4B	5.93	130.75	121.38
11	K5	201	CYC	CAC-C3C-C4C	-5.93	97.44	112.67
11	G1	201	CYC	CAC-C3C-C4C	-5.93	97.44	112.67
11	R1	201	CYC	CAC-C3C-C4C	-5.93	97.44	112.67
11	A5	302	CYC	CAC-C3C-C4C	-5.93	97.45	112.67
11	R5	201	CYC	CAC-C3C-C4C	-5.93	97.45	112.67
11	I1	201	CYC	CAC-C3C-C4C	-5.93	97.45	112.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Z1	201	CYC	CAC-C3C-C4C	-5.93	97.45	112.67
11	A5	301	CYC	CAC-C3C-C4C	-5.93	97.45	112.67
11	A1	302	CYC	CAC-C3C-C4C	-5.93	97.46	112.67
11	M5	201	CYC	CAC-C3C-C4C	-5.92	97.46	112.67
11	V5	201	CYC	CAC-C3C-C4C	-5.92	97.46	112.67
11	I5	201	CYC	CAC-C3C-C4C	-5.92	97.47	112.67
11	Z5	201	CYC	CAC-C3C-C4C	-5.92	97.47	112.67
11	X1	201	CYC	CAC-C3C-C4C	-5.92	97.47	112.67
11	V1	201	CYC	CAC-C3C-C4C	-5.92	97.47	112.67
11	M1	201	CYC	CAC-C3C-C4C	-5.92	97.47	112.67
11	A1	301	CYC	CAC-C3C-C4C	-5.92	97.47	112.67
11	P1	201	CYC	CAC-C3C-C4C	-5.92	97.48	112.67
11	X5	201	CYC	CAC-C3C-C4C	-5.92	97.48	112.67
11	P5	201	CYC	CAC-C3C-C4C	-5.91	97.49	112.67
11	g3	1001	CYC	CHB-C4A-NA	-5.91	112.57	124.93
11	Q3	1001	CYC	CHB-C4A-NA	-5.88	112.63	124.93
11	Z1	201	CYC	CAB-C3B-C4B	5.84	130.60	121.38
11	Z5	201	CYC	CAB-C3B-C4B	5.83	130.59	121.38
11	V5	201	CYC	CAB-C3B-C4B	5.83	130.59	121.38
11	V1	201	CYC	CAB-C3B-C4B	5.83	130.59	121.38
11	G5	201	CYC	CAB-C3B-C4B	5.83	130.58	121.38
11	A1	302	CYC	CAB-C3B-C4B	5.82	130.57	121.38
11	P1	201	CYC	CAB-C3B-C4B	5.82	130.57	121.38
11	A5	301	CYC	CAB-C3B-C4B	5.82	130.57	121.38
11	K5	201	CYC	CAB-C3B-C4B	5.82	130.56	121.38
11	X1	201	CYC	CAB-C3B-C4B	5.82	130.56	121.38
11	I5	201	CYC	CAB-C3B-C4B	5.82	130.56	121.38
11	P5	201	CYC	CAB-C3B-C4B	5.82	130.56	121.38
11	M1	201	CYC	CAB-C3B-C4B	5.81	130.56	121.38
11	A1	301	CYC	CAB-C3B-C4B	5.81	130.56	121.38
11	K1	201	CYC	CAB-C3B-C4B	5.81	130.56	121.38
11	N5	301	CYC	CMA-C3A-C4A	5.81	134.01	125.06
11	A5	302	CYC	CAB-C3B-C4B	5.81	130.56	121.38
11	M5	201	CYC	CAB-C3B-C4B	5.81	130.55	121.38
11	I1	201	CYC	CAB-C3B-C4B	5.80	130.54	121.38
11	X5	201	CYC	CAB-C3B-C4B	5.80	130.54	121.38
11	N5	301	CYC	CAB-C3B-C4B	5.80	130.53	121.38
11	G1	201	CYC	CAB-C3B-C4B	5.79	130.53	121.38
11	R1	201	CYC	CAB-C3B-C4B	5.79	130.53	121.38
11	N1	301	CYC	CAB-C3B-C4B	5.79	130.53	121.38
11	N1	301	CYC	CMA-C3A-C4A	5.79	133.98	125.06
11	M5	201	CYC	CMA-C3A-C4A	5.79	133.98	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	A5	301	CYC	CMA-C3A-C4A	5.78	133.97	125.06
11	M4	202	CYC	CHB-C4A-NA	-5.78	112.83	124.93
11	I5	201	CYC	CMA-C3A-C4A	5.78	133.97	125.06
11	R5	201	CYC	CAB-C3B-C4B	5.78	130.50	121.38
11	I4	201	CYC	CHB-C4A-NA	-5.78	112.85	124.93
11	M1	201	CYC	CMA-C3A-C4A	5.78	133.96	125.06
11	M1	202	CYC	C2A-C1A-NA	5.78	118.45	110.05
11	I8	201	CYC	CHB-C4A-NA	-5.78	112.85	124.93
11	M5	202	CYC	C2A-C1A-NA	5.78	118.45	110.05
11	P5	202	CYC	C2A-C1A-NA	5.77	118.45	110.05
11	M8	202	CYC	CHB-C4A-NA	-5.77	112.86	124.93
11	A1	301	CYC	CMA-C3A-C4A	5.77	133.95	125.06
11	I5	202	CYC	C2A-C1A-NA	5.77	118.44	110.05
11	G1	201	CYC	CMA-C3A-C4A	5.77	133.95	125.06
11	G1	202	CYC	C2A-C1A-NA	5.77	118.44	110.05
11	K5	201	CYC	CMA-C3A-C4A	5.76	133.94	125.06
11	X4	201	CYC	CHB-C4A-NA	-5.76	112.88	124.93
11	P1	202	CYC	C2A-C1A-NA	5.76	118.43	110.05
11	I1	201	CYC	CMA-C3A-C4A	5.76	133.94	125.06
11	A4	301	CYC	CHB-C4A-NA	-5.76	112.88	124.93
11	V8	201	CYC	CHB-C4A-NA	-5.76	112.88	124.93
11	T5	201	CYC	C2A-C1A-NA	5.76	118.43	110.05
11	V4	201	CYC	CHB-C4A-NA	-5.76	112.89	124.93
11	Z5	202	CYC	C2A-C1A-NA	5.76	118.43	110.05
11	T4	201	CYC	CHB-C4A-NA	-5.76	112.89	124.93
11	R5	202	CYC	C2A-C1A-NA	5.76	118.42	110.05
11	P1	201	CYC	CMA-C3A-C4A	5.75	133.93	125.06
11	T8	201	CYC	CHB-C4A-NA	-5.75	112.90	124.93
11	G4	202	CYC	CHB-C4A-NA	-5.75	112.90	124.93
11	N8	301	CYC	CHB-C4A-NA	-5.75	112.90	124.93
11	R1	201	CYC	CMA-C3A-C4A	5.75	133.92	125.06
11	R5	201	CYC	CMA-C3A-C4A	5.75	133.92	125.06
11	X8	201	CYC	CHB-C4A-NA	-5.75	112.90	124.93
11	Z4	201	CYC	CHB-C4A-NA	-5.75	112.90	124.93
11	G5	201	CYC	CMA-C3A-C4A	5.75	133.92	125.06
11	T1	201	CYC	C2A-C1A-NA	5.75	118.41	110.05
11	A8	301	CYC	CHB-C4A-NA	-5.75	112.91	124.93
11	Z8	201	CYC	CHB-C4A-NA	-5.75	112.91	124.93
11	X5	202	CYC	C2A-C1A-NA	5.75	118.41	110.05
11	I1	202	CYC	C2A-C1A-NA	5.75	118.41	110.05
11	V5	201	CYC	CMA-C3A-C4A	5.75	133.91	125.06
11	U5	202	CYC	C2A-C1A-NA	5.74	118.41	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	X5	201	CYC	CMA-C3A-C4A	5.74	133.91	125.06
11	G8	202	CYC	CHB-C4A-NA	-5.74	112.92	124.93
11	E8	201	CYC	CHB-C4A-NA	-5.74	112.92	124.93
11	X1	201	CYC	CMA-C3A-C4A	5.74	133.91	125.06
11	N4	301	CYC	CHB-C4A-NA	-5.74	112.92	124.93
11	K8	201	CYC	CHB-C4A-NA	-5.74	112.92	124.93
11	R1	202	CYC	C2A-C1A-NA	5.74	118.40	110.05
11	A1	302	CYC	CMA-C3A-C4A	5.74	133.91	125.06
11	P5	201	CYC	CMA-C3A-C4A	5.74	133.91	125.06
11	C1	201	CYC	C2A-C1A-NA	5.74	118.40	110.05
11	X1	202	CYC	C2A-C1A-NA	5.74	118.40	110.05
11	E4	201	CYC	CHB-C4A-NA	-5.74	112.92	124.93
11	V1	201	CYC	CMA-C3A-C4A	5.74	133.90	125.06
11	A5	302	CYC	CMA-C3A-C4A	5.74	133.90	125.06
11	m3	201	CYC	CHB-C4A-NA	-5.74	112.93	124.93
11	K1	201	CYC	CMA-C3A-C4A	5.74	133.90	125.06
11	Z5	201	CYC	CMA-C3A-C4A	5.73	133.89	125.06
11	P4	201	CYC	CHB-C4A-NA	-5.73	112.94	124.93
11	G5	202	CYC	C2A-C1A-NA	5.73	118.39	110.05
11	P8	201	CYC	CHB-C4A-NA	-5.73	112.94	124.93
11	Z1	202	CYC	C2A-C1A-NA	5.73	118.38	110.05
11	Z1	201	CYC	CMA-C3A-C4A	5.73	133.88	125.06
11	V3	201	CYC	CHB-C4A-NA	-5.73	112.95	124.93
11	K1	202	CYC	C2A-C1A-NA	5.72	118.36	110.05
11	U1	202	CYC	C2A-C1A-NA	5.72	118.36	110.05
11	K4	201	CYC	CHB-C4A-NA	-5.71	112.99	124.93
11	C5	201	CYC	C2A-C1A-NA	5.71	118.35	110.05
11	D1	201	CYC	C2A-C1A-NA	5.70	118.34	110.05
11	D5	201	CYC	C2A-C1A-NA	5.70	118.34	110.05
11	K5	202	CYC	C2A-C1A-NA	5.70	118.33	110.05
11	U5	202	CYC	CBB-CAB-C3B	-5.66	96.84	112.43
11	Z5	202	CYC	CBB-CAB-C3B	-5.66	96.84	112.43
11	I1	202	CYC	CBB-CAB-C3B	-5.66	96.84	112.43
11	U1	202	CYC	CBB-CAB-C3B	-5.65	96.85	112.43
11	M5	202	CYC	CBB-CAB-C3B	-5.65	96.85	112.43
11	Z1	202	CYC	CBB-CAB-C3B	-5.65	96.85	112.43
11	T1	201	CYC	CBB-CAB-C3B	-5.65	96.86	112.43
11	T5	201	CYC	CBB-CAB-C3B	-5.65	96.86	112.43
11	D1	201	CYC	CBB-CAB-C3B	-5.65	96.86	112.43
11	D5	201	CYC	CBB-CAB-C3B	-5.65	96.86	112.43
11	R5	202	CYC	CBB-CAB-C3B	-5.65	96.87	112.43
11	M1	202	CYC	CBB-CAB-C3B	-5.65	96.87	112.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	R1	202	CYC	CBB-CAB-C3B	-5.64	96.87	112.43
11	G1	202	CYC	CBB-CAB-C3B	-5.64	96.87	112.43
11	C1	201	CYC	CBB-CAB-C3B	-5.64	96.87	112.43
11	C5	201	CYC	CBB-CAB-C3B	-5.64	96.88	112.43
11	I5	202	CYC	CBB-CAB-C3B	-5.64	96.88	112.43
11	G5	202	CYC	CBB-CAB-C3B	-5.64	96.90	112.43
11	X1	202	CYC	CBB-CAB-C3B	-5.63	96.90	112.43
11	P1	202	CYC	CBB-CAB-C3B	-5.63	96.90	112.43
11	P5	202	CYC	CBB-CAB-C3B	-5.63	96.91	112.43
11	K1	202	CYC	CBB-CAB-C3B	-5.63	96.92	112.43
11	N6	302	CYC	CMA-C3A-C4A	5.62	133.72	125.06
11	X5	202	CYC	CBB-CAB-C3B	-5.62	96.94	112.43
11	K5	202	CYC	CBB-CAB-C3B	-5.62	96.94	112.43
11	A2	301	CYC	CMA-C3A-C4A	5.62	133.71	125.06
11	E6	201	CYC	CMA-C3A-C4A	5.61	133.71	125.06
11	A6	301	CYC	CMA-C3A-C4A	5.61	133.71	125.06
11	H5	201	CYC	CBD-CAD-C3D	-5.61	103.05	112.62
11	N2	302	CYC	CMA-C3A-C4A	5.61	133.70	125.06
11	O1	201	CYC	CBD-CAD-C3D	-5.60	103.06	112.62
11	H1	201	CYC	CBD-CAD-C3D	-5.60	103.06	112.62
11	V6	201	CYC	CMA-C3A-C4A	5.60	133.69	125.06
11	K2	201	CYC	CMA-C3A-C4A	5.60	133.68	125.06
11	B1	201	CYC	CBD-CAD-C3D	-5.60	103.07	112.62
11	I7	1001	CYC	OB-C4B-C3B	-5.59	121.97	128.04
11	M2	201	CYC	CMA-C3A-C4A	5.59	133.67	125.06
11	L1	201	CYC	CBD-CAD-C3D	-5.59	103.08	112.62
11	X5	203	CYC	CBD-CAD-C3D	-5.59	103.08	112.62
11	I2	201	CYC	CMA-C3A-C4A	5.59	133.67	125.06
11	E2	201	CYC	CMA-C3A-C4A	5.59	133.67	125.06
11	K6	201	CYC	CMA-C3A-C4A	5.59	133.67	125.06
11	Q1	201	CYC	CBD-CAD-C3D	-5.58	103.09	112.62
11	L5	201	CYC	CBD-CAD-C3D	-5.58	103.09	112.62
11	Q5	201	CYC	CBD-CAD-C3D	-5.58	103.09	112.62
11	X6	201	CYC	CMA-C3A-C4A	5.58	133.66	125.06
11	P6	201	CYC	CMA-C3A-C4A	5.58	133.66	125.06
11	P2	201	CYC	CMA-C3A-C4A	5.58	133.66	125.06
11	V2	201	CYC	CMA-C3A-C4A	5.58	133.66	125.06
11	C6	201	CYC	CMA-C3A-C4A	5.58	133.66	125.06
11	J1	201	CYC	CBD-CAD-C3D	-5.58	103.10	112.62
11	F5	201	CYC	CBD-CAD-C3D	-5.58	103.10	112.62
11	Z2	202	CYC	CMA-C3A-C4A	5.58	133.65	125.06
11	B5	201	CYC	CBD-CAD-C3D	-5.58	103.11	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	X2	201	CYC	CMA-C3A-C4A	5.57	133.65	125.06
11	C5	202	CYC	CBD-CAD-C3D	-5.57	103.11	112.62
11	C1	202	CYC	CBD-CAD-C3D	-5.57	103.11	112.62
11	U1	201	CYC	CBD-CAD-C3D	-5.57	103.11	112.62
11	M6	201	CYC	CMA-C3A-C4A	5.57	133.64	125.06
11	J5	201	CYC	CBD-CAD-C3D	-5.57	103.11	112.62
11	O5	201	CYC	CBD-CAD-C3D	-5.57	103.12	112.62
11	X1	203	CYC	CBD-CAD-C3D	-5.57	103.12	112.62
11	I6	201	CYC	CMA-C3A-C4A	5.57	133.64	125.06
11	C2	201	CYC	CMA-C3A-C4A	5.57	133.63	125.06
11	V1	202	CYC	CBD-CAD-C3D	-5.57	103.12	112.62
11	U5	201	CYC	CBD-CAD-C3D	-5.57	103.12	112.62
11	S1	201	CYC	CBD-CAD-C3D	-5.56	103.12	112.62
11	P7	1001	CYC	OB-C4B-C3B	-5.56	122.00	128.04
11	F1	201	CYC	CBD-CAD-C3D	-5.56	103.13	112.62
11	S5	201	CYC	CBD-CAD-C3D	-5.56	103.13	112.62
11	Z6	201	CYC	CMA-C3A-C4A	5.56	133.62	125.06
11	N6	301	CYC	CMA-C3A-C4A	5.55	133.62	125.06
11	K7	1001	CYC	OB-C4B-C3B	-5.55	122.01	128.04
11	M7	1001	CYC	OB-C4B-C3B	-5.55	122.02	128.04
11	R7	1001	CYC	OB-C4B-C3B	-5.55	122.02	128.04
11	V5	202	CYC	CBD-CAD-C3D	-5.54	103.17	112.62
11	a7	1001	CYC	OB-C4B-C3B	-5.54	122.03	128.04
11	N2	301	CYC	CMA-C3A-C4A	5.54	133.59	125.06
11	Y7	1001	CYC	OB-C4B-C3B	-5.53	122.04	128.04
11	B7	1001	CYC	OB-C4B-C3B	-5.52	122.05	128.04
11	T7	1001	CYC	OB-C4B-C3B	-5.52	122.05	128.04
11	F7	1001	CYC	OB-C4B-C3B	-5.51	122.06	128.04
11	D7	1001	CYC	OB-C4B-C3B	-5.50	122.07	128.04
11	03	901	CYC	CHB-C4A-NA	-5.49	113.44	124.93
11	W7	1001	CYC	OB-C4B-C3B	-5.47	122.10	128.04
11	13	901	CYC	CHB-C4A-NA	-5.46	113.50	124.93
11	T7	1001	CYC	CHA-C1A-NA	-5.45	121.27	128.83
11	B7	1001	CYC	CHA-C1A-NA	-5.44	121.28	128.83
11	D7	1001	CYC	CHA-C1A-NA	-5.43	121.29	128.83
11	I7	1001	CYC	CHA-C1A-NA	-5.43	121.30	128.83
11	a7	1001	CYC	CHA-C1A-NA	-5.42	121.31	128.83
11	P7	1001	CYC	CHA-C1A-NA	-5.42	121.31	128.83
11	M7	1001	CYC	CHA-C1A-NA	-5.41	121.32	128.83
11	W7	1001	CYC	CHA-C1A-NA	-5.41	121.32	128.83
11	R7	1001	CYC	CHA-C1A-NA	-5.41	121.32	128.83
11	L7	1001	CYC	CHB-C4A-NA	-5.41	113.62	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Y7	1001	CYC	CHA-C1A-NA	-5.40	121.33	128.83
11	X7	1001	CYC	CHB-C4A-NA	-5.40	113.63	124.93
11	K7	1001	CYC	CHA-C1A-NA	-5.40	121.33	128.83
11	C7	1001	CYC	CHB-C4A-NA	-5.40	113.64	124.93
11	H7	1001	CYC	CHB-C4A-NA	-5.40	113.65	124.93
11	F7	1001	CYC	CHA-C1A-NA	-5.39	121.34	128.83
11	O7	1001	CYC	CHB-C4A-NA	-5.39	113.66	124.93
11	E7	1001	CYC	CHB-C4A-NA	-5.39	113.67	124.93
11	S7	1001	CYC	CHB-C4A-NA	-5.38	113.67	124.93
11	J7	1001	CYC	CHB-C4A-NA	-5.38	113.67	124.93
11	A7	1001	CYC	CHB-C4A-NA	-5.38	113.67	124.93
11	Q7	1001	CYC	CHB-C4A-NA	-5.38	113.67	124.93
11	V7	1001	CYC	CHB-C4A-NA	-5.38	113.67	124.93
11	Z7	1001	CYC	CHB-C4A-NA	-5.37	113.71	124.93
11	I1	202	CYC	C1B-NB-C4B	-5.35	103.85	110.67
11	I5	202	CYC	C1B-NB-C4B	-5.35	103.86	110.67
11	U1	201	CYC	CBC-CAC-C3C	-5.34	101.57	113.47
11	X5	203	CYC	CBC-CAC-C3C	-5.34	101.57	113.47
11	U5	202	CYC	C1B-NB-C4B	-5.34	103.87	110.67
11	O5	201	CYC	CBC-CAC-C3C	-5.34	101.57	113.47
11	G5	202	CYC	C1B-NB-C4B	-5.34	103.87	110.67
11	Y6	201	CYC	CMA-C3A-C4A	5.34	133.29	125.06
11	U5	201	CYC	CBC-CAC-C3C	-5.34	101.58	113.47
11	J1	201	CYC	CBC-CAC-C3C	-5.34	101.58	113.47
11	X1	203	CYC	CBC-CAC-C3C	-5.34	101.58	113.47
11	O1	201	CYC	CBC-CAC-C3C	-5.34	101.59	113.47
11	S1	201	CYC	CBC-CAC-C3C	-5.33	101.59	113.47
11	Z1	202	CYC	C1B-NB-C4B	-5.33	103.88	110.67
11	H1	201	CYC	CBC-CAC-C3C	-5.33	101.60	113.47
11	F5	201	CYC	CBC-CAC-C3C	-5.33	101.60	113.47
11	K1	202	CYC	C1B-NB-C4B	-5.33	103.88	110.67
11	Q5	201	CYC	CBC-CAC-C3C	-5.33	101.60	113.47
11	S5	201	CYC	CBC-CAC-C3C	-5.33	101.60	113.47
11	Q6	201	CYC	CMA-C3A-C4A	5.33	133.27	125.06
11	C5	202	CYC	CBC-CAC-C3C	-5.33	101.61	113.47
11	L1	201	CYC	CBC-CAC-C3C	-5.33	101.61	113.47
11	U1	202	CYC	C1B-NB-C4B	-5.33	103.89	110.67
11	Q1	201	CYC	CBC-CAC-C3C	-5.33	101.61	113.47
11	R5	202	CYC	C1B-NB-C4B	-5.33	103.89	110.67
11	L6	201	CYC	CMA-C3A-C4A	5.33	133.27	125.06
11	C1	202	CYC	CBC-CAC-C3C	-5.33	101.61	113.47
11	L5	201	CYC	CBC-CAC-C3C	-5.33	101.61	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	R6	202	CYC	CMA-C3A-C4A	5.32	133.26	125.06
11	C6	203	CYC	CMA-C3A-C4A	5.32	133.26	125.06
11	V1	202	CYC	CBC-CAC-C3C	-5.32	101.62	113.47
11	H5	201	CYC	CBC-CAC-C3C	-5.32	101.62	113.47
11	J5	201	CYC	CBC-CAC-C3C	-5.32	101.62	113.47
11	X2	203	CYC	CMA-C3A-C4A	5.32	133.26	125.06
11	F1	201	CYC	CBC-CAC-C3C	-5.32	101.62	113.47
11	V3	201	CYC	CMA-C3A-C4A	5.32	133.25	125.06
11	Q2	201	CYC	CMA-C3A-C4A	5.32	133.25	125.06
11	C5	201	CYC	CHB-C1B-C2B	-5.32	116.41	126.95
11	B1	201	CYC	CBC-CAC-C3C	-5.32	101.63	113.47
11	V5	202	CYC	CBC-CAC-C3C	-5.31	101.64	113.47
11	K5	202	CYC	CHB-C1B-C2B	-5.31	116.42	126.95
11	R1	202	CYC	C1B-NB-C4B	-5.31	103.91	110.67
11	I5	202	CYC	CHB-C1B-C2B	-5.31	116.42	126.95
11	K2	203	CYC	CMA-C3A-C4A	5.31	133.24	125.06
11	K1	202	CYC	CHB-C1B-C2B	-5.31	116.42	126.95
11	X1	202	CYC	CHB-C1B-C2B	-5.31	116.42	126.95
11	q3	1001	CYC	C1B-NB-C4B	-5.31	103.91	110.67
11	G1	202	CYC	C1B-NB-C4B	-5.31	103.91	110.67
11	I1	202	CYC	CHB-C1B-C2B	-5.31	116.43	126.95
11	G1	202	CYC	CHB-C1B-C2B	-5.31	116.43	126.95
11	T5	201	CYC	C1B-NB-C4B	-5.31	103.91	110.67
11	G5	202	CYC	CHB-C1B-C2B	-5.31	116.43	126.95
11	H6	201	CYC	CMA-C3A-C4A	5.31	133.24	125.06
11	K5	202	CYC	C1B-NB-C4B	-5.31	103.91	110.67
11	P1	202	CYC	CHB-C1B-C2B	-5.31	116.44	126.95
11	W2	201	CYC	CMA-C3A-C4A	5.31	133.23	125.06
11	C5	201	CYC	C1B-NB-C4B	-5.31	103.92	110.67
11	X5	202	CYC	C1B-NB-C4B	-5.30	103.92	110.67
11	B5	201	CYC	CBC-CAC-C3C	-5.30	101.66	113.47
11	D2	201	CYC	CMA-C3A-C4A	5.30	133.23	125.06
11	d3	1001	CYC	C1B-NB-C4B	-5.30	103.92	110.67
11	P5	202	CYC	CHB-C1B-C2B	-5.30	116.44	126.95
11	U5	202	CYC	CHB-C1B-C2B	-5.30	116.44	126.95
11	T1	201	CYC	C1B-NB-C4B	-5.30	103.92	110.67
11	M5	202	CYC	C1B-NB-C4B	-5.30	103.92	110.67
11	S2	201	CYC	CMA-C3A-C4A	5.30	133.23	125.06
11	D1	201	CYC	CHB-C1B-C2B	-5.30	116.45	126.95
11	m3	201	CYC	CMA-C3A-C4A	5.30	133.22	125.06
11	D1	201	CYC	C1B-NB-C4B	-5.30	103.92	110.67
11	Z5	202	CYC	C1B-NB-C4B	-5.30	103.92	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	M1	202	CYC	C1B-NB-C4B	-5.30	103.92	110.67
11	G3	1001	CYC	C1B-NB-C4B	-5.30	103.92	110.67
11	W6	201	CYC	CMA-C3A-C4A	5.30	133.22	125.06
11	X5	202	CYC	CHB-C1B-C2B	-5.30	116.45	126.95
11	J6	201	CYC	CMA-C3A-C4A	5.30	133.22	125.06
11	P1	202	CYC	C1B-NB-C4B	-5.29	103.93	110.67
11	C1	201	CYC	CHB-C1B-C2B	-5.29	116.46	126.95
11	B6	201	CYC	CMA-C3A-C4A	5.29	133.22	125.06
11	B2	201	CYC	CMA-C3A-C4A	5.29	133.22	125.06
11	C1	201	CYC	C1B-NB-C4B	-5.29	103.94	110.67
11	T2	201	CYC	CMA-C3A-C4A	5.29	133.21	125.06
11	Z1	202	CYC	CHB-C1B-C2B	-5.29	116.47	126.95
11	X3	1001	CYC	C1B-NB-C4B	-5.29	103.94	110.67
11	Z3	1001	CYC	C1B-NB-C4B	-5.29	103.94	110.67
11	D5	201	CYC	CHB-C1B-C2B	-5.29	116.47	126.95
11	R1	202	CYC	CHB-C1B-C2B	-5.29	116.47	126.95
11	k3	1001	CYC	C1B-NB-C4B	-5.29	103.94	110.67
11	Z5	202	CYC	CHB-C1B-C2B	-5.29	116.48	126.95
11	R5	202	CYC	CHB-C1B-C2B	-5.28	116.48	126.95
11	u3	1001	CYC	C1B-NB-C4B	-5.28	103.94	110.67
11	P5	202	CYC	C1B-NB-C4B	-5.28	103.94	110.67
11	U1	202	CYC	CHB-C1B-C2B	-5.28	116.48	126.95
11	X1	202	CYC	C1B-NB-C4B	-5.28	103.94	110.67
11	T3	1001	CYC	C1B-NB-C4B	-5.28	103.95	110.67
11	U6	201	CYC	CMA-C3A-C4A	5.28	133.19	125.06
11	I3	1001	CYC	C1B-NB-C4B	-5.28	103.95	110.67
11	Z2	201	CYC	CMA-C3A-C4A	5.28	133.19	125.06
11	M5	202	CYC	CHB-C1B-C2B	-5.28	116.49	126.95
11	K3	1001	CYC	C1B-NB-C4B	-5.28	103.95	110.67
11	I2	203	CYC	CMA-C3A-C4A	5.28	133.19	125.06
11	T1	201	CYC	CHB-C1B-C2B	-5.28	116.50	126.95
11	s3	1001	CYC	C1B-NB-C4B	-5.27	103.95	110.67
11	i3	1001	CYC	C1B-NB-C4B	-5.27	103.95	110.67
11	O6	201	CYC	CMA-C3A-C4A	5.27	133.19	125.06
11	N3	1001	CYC	C1B-NB-C4B	-5.27	103.96	110.67
11	M1	202	CYC	CHB-C1B-C2B	-5.27	116.50	126.95
11	g3	1001	CYC	OB-C4B-C3B	-5.27	122.32	128.04
11	o3	1001	CYC	C1B-NB-C4B	-5.27	103.96	110.67
11	R3	1001	CYC	C1B-NB-C4B	-5.27	103.96	110.67
11	y3	1001	CYC	C1B-NB-C4B	-5.27	103.96	110.67
11	E2	203	CYC	CMA-C3A-C4A	5.27	133.17	125.06
11	H2	201	CYC	CMA-C3A-C4A	5.27	133.17	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	T5	201	CYC	CHB-C1B-C2B	-5.26	116.52	126.95
11	D5	201	CYC	C1B-NB-C4B	-5.26	103.97	110.67
11	w3	1001	CYC	C1B-NB-C4B	-5.26	103.97	110.67
11	F6	201	CYC	CMA-C3A-C4A	5.26	133.16	125.06
11	B6	201	CYC	CBD-CAD-C3D	-5.26	103.65	112.62
11	P3	1001	CYC	C1B-NB-C4B	-5.25	103.98	110.67
11	O6	201	CYC	CBD-CAD-C3D	-5.25	103.66	112.62
11	B2	201	CYC	CBD-CAD-C3D	-5.25	103.66	112.62
11	b3	1001	CYC	C1B-NB-C4B	-5.25	103.99	110.67
11	J6	201	CYC	CBD-CAD-C3D	-5.24	103.67	112.62
11	Q3	1001	CYC	OB-C4B-C3B	-5.24	122.35	128.04
11	f3	1001	CYC	C1B-NB-C4B	-5.24	104.00	110.67
11	T2	201	CYC	CBD-CAD-C3D	-5.24	103.68	112.62
11	W6	201	CYC	CBD-CAD-C3D	-5.24	103.68	112.62
11	H6	201	CYC	CBD-CAD-C3D	-5.24	103.68	112.62
11	I2	203	CYC	CBD-CAD-C3D	-5.24	103.68	112.62
11	W2	201	CYC	CBD-CAD-C3D	-5.24	103.69	112.62
11	Q6	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
11	H2	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
11	L6	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
11	E2	203	CYC	CBD-CAD-C3D	-5.23	103.70	112.62
11	S2	201	CYC	CBD-CAD-C3D	-5.23	103.70	112.62
11	F6	201	CYC	CBD-CAD-C3D	-5.22	103.70	112.62
11	C6	203	CYC	CBD-CAD-C3D	-5.22	103.71	112.62
11	Q2	201	CYC	CBD-CAD-C3D	-5.22	103.71	112.62
11	U6	201	CYC	CBD-CAD-C3D	-5.22	103.71	112.62
11	D2	201	CYC	CBD-CAD-C3D	-5.22	103.72	112.62
11	Z2	201	CYC	CBD-CAD-C3D	-5.22	103.72	112.62
11	R6	202	CYC	CBD-CAD-C3D	-5.22	103.72	112.62
11	X2	203	CYC	CBD-CAD-C3D	-5.21	103.72	112.62
11	K2	203	CYC	CBD-CAD-C3D	-5.21	103.73	112.62
11	Y6	201	CYC	CBD-CAD-C3D	-5.19	103.76	112.62
11	13	901	CYC	OB-C4B-C3B	-5.17	122.43	128.04
11	03	901	CYC	C1B-NB-C4B	-5.17	104.09	110.67
11	13	901	CYC	C1B-NB-C4B	-5.16	104.10	110.67
11	03	901	CYC	OB-C4B-C3B	-5.14	122.46	128.04
11	P6	201	CYC	CHB-C4A-NA	-5.13	114.20	124.93
11	V4	201	CYC	CHA-C1A-NA	-5.13	121.72	128.83
11	V3	201	CYC	C1B-NB-C4B	-5.13	104.14	110.67
11	A6	301	CYC	O1A-CGA-CBA	5.12	139.54	123.08
11	P2	201	CYC	CHB-C4A-NA	-5.12	114.22	124.93
11	I6	201	CYC	O1A-CGA-CBA	5.12	139.53	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	C6	201	CYC	O1A-CGA-CBA	5.12	139.53	123.08
11	I5	202	CYC	C2B-C1B-NB	5.12	114.48	106.99
11	G5	202	CYC	C2B-C1B-NB	5.12	114.48	106.99
11	N6	302	CYC	O1A-CGA-CBA	5.12	139.51	123.08
11	A2	301	CYC	CHB-C4A-NA	-5.12	114.23	124.93
11	Z2	202	CYC	CHB-C4A-NA	-5.12	114.23	124.93
11	K2	201	CYC	CHB-C4A-NA	-5.11	114.23	124.93
11	M2	201	CYC	CHB-C4A-NA	-5.11	114.23	124.93
11	I1	202	CYC	C2B-C1B-NB	5.11	114.48	106.99
11	A2	301	CYC	O1A-CGA-CBA	5.11	139.51	123.08
11	K6	201	CYC	CHB-C4A-NA	-5.11	114.23	124.93
11	Z8	201	CYC	CHA-C1A-NA	-5.11	121.73	128.83
11	I2	201	CYC	O1A-CGA-CBA	5.11	139.51	123.08
11	N6	301	CYC	O1A-CGA-CBA	5.11	139.50	123.08
11	A6	301	CYC	CHB-C4A-NA	-5.11	114.24	124.93
11	Z4	201	CYC	CHA-C1A-NA	-5.11	121.74	128.83
11	M6	201	CYC	CHB-C4A-NA	-5.11	114.24	124.93
11	A4	301	CYC	CHA-C1A-NA	-5.11	121.74	128.83
11	Z6	201	CYC	O1A-CGA-CBA	5.11	139.49	123.08
11	N2	302	CYC	CHB-C4A-NA	-5.11	114.25	124.93
11	Z6	201	CYC	CHB-C4A-NA	-5.11	114.25	124.93
11	m3	201	CYC	C1B-NB-C4B	-5.11	104.17	110.67
11	13	901	CYC	C2B-C1B-NB	5.11	114.46	106.99
11	N4	301	CYC	CHA-C1A-NA	-5.11	121.74	128.83
11	K1	202	CYC	C2B-C1B-NB	5.10	114.46	106.99
11	C2	201	CYC	O1A-CGA-CBA	5.10	139.48	123.08
11	E2	201	CYC	O1A-CGA-CBA	5.10	139.48	123.08
11	N2	302	CYC	O1A-CGA-CBA	5.10	139.48	123.08
11	X2	201	CYC	O1A-CGA-CBA	5.10	139.47	123.08
11	M6	201	CYC	O1A-CGA-CBA	5.10	139.47	123.08
11	N2	301	CYC	O1A-CGA-CBA	5.10	139.47	123.08
11	E2	201	CYC	CHB-C4A-NA	-5.10	114.26	124.93
11	X6	201	CYC	O1A-CGA-CBA	5.10	139.47	123.08
11	K2	201	CYC	O1A-CGA-CBA	5.10	139.47	123.08
11	I6	201	CYC	CHB-C4A-NA	-5.10	114.26	124.93
11	T4	201	CYC	CHA-C1A-NA	-5.10	121.75	128.83
11	Z2	202	CYC	O1A-CGA-CBA	5.10	139.46	123.08
11	V2	201	CYC	O1A-CGA-CBA	5.10	139.46	123.08
11	N6	302	CYC	CHB-C4A-NA	-5.10	114.27	124.93
11	X6	201	CYC	CHB-C4A-NA	-5.10	114.27	124.93
11	D1	201	CYC	C2B-C1B-NB	5.10	114.45	106.99
11	M2	201	CYC	O1A-CGA-CBA	5.10	139.46	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	V8	201	CYC	CHA-C1A-NA	-5.10	121.76	128.83
11	N6	301	CYC	CHB-C4A-NA	-5.10	114.27	124.93
11	V6	201	CYC	O1A-CGA-CBA	5.10	139.46	123.08
11	X2	201	CYC	CHB-C4A-NA	-5.10	114.27	124.93
11	V6	201	CYC	CHB-C4A-NA	-5.10	114.27	124.93
11	03	901	CYC	C2B-C1B-NB	5.10	114.45	106.99
11	I2	201	CYC	CHB-C4A-NA	-5.09	114.28	124.93
11	K6	201	CYC	O1A-CGA-CBA	5.09	139.45	123.08
11	E6	201	CYC	O1A-CGA-CBA	5.09	139.44	123.08
11	D5	201	CYC	C2B-C1B-NB	5.09	114.44	106.99
11	P2	201	CYC	O1A-CGA-CBA	5.09	139.44	123.08
11	N2	301	CYC	CHB-C4A-NA	-5.09	114.28	124.93
11	C2	201	CYC	CHB-C4A-NA	-5.09	114.28	124.93
11	G1	202	CYC	C2B-C1B-NB	5.09	114.44	106.99
11	U1	202	CYC	C2B-C1B-NB	5.09	114.44	106.99
11	R5	202	CYC	C2B-C1B-NB	5.09	114.44	106.99
11	U5	202	CYC	C2B-C1B-NB	5.09	114.44	106.99
11	P6	201	CYC	O1A-CGA-CBA	5.09	139.43	123.08
11	C5	201	CYC	C2B-C1B-NB	5.09	114.44	106.99
11	E6	201	CYC	CHB-C4A-NA	-5.09	114.29	124.93
11	C6	201	CYC	CHB-C4A-NA	-5.09	114.29	124.93
11	N8	301	CYC	CHA-C1A-NA	-5.09	121.77	128.83
11	A8	301	CYC	CHA-C1A-NA	-5.08	121.77	128.83
11	X5	202	CYC	C2B-C1B-NB	5.08	114.43	106.99
11	V2	201	CYC	CHB-C4A-NA	-5.08	114.30	124.93
11	K5	202	CYC	C2B-C1B-NB	5.08	114.43	106.99
11	T8	201	CYC	CHA-C1A-NA	-5.08	121.78	128.83
11	E4	201	CYC	CHA-C1A-NA	-5.08	121.78	128.83
11	T5	201	CYC	C2B-C1B-NB	5.08	114.42	106.99
11	R1	202	CYC	C2B-C1B-NB	5.07	114.42	106.99
11	P5	202	CYC	C2B-C1B-NB	5.07	114.42	106.99
11	M4	202	CYC	CHA-C1A-NA	-5.07	121.79	128.83
11	Z1	202	CYC	C2B-C1B-NB	5.07	114.42	106.99
11	T1	201	CYC	C2B-C1B-NB	5.07	114.41	106.99
11	M5	202	CYC	C2B-C1B-NB	5.07	114.41	106.99
11	B5	201	CYC	CMA-C3A-C4A	5.07	132.87	125.06
11	E8	201	CYC	CHA-C1A-NA	-5.07	121.80	128.83
11	X8	201	CYC	CHA-C1A-NA	-5.07	121.80	128.83
11	D5	201	CYC	C1B-CHB-C4A	5.07	140.46	128.08
11	X1	202	CYC	C2B-C1B-NB	5.07	114.41	106.99
11	P8	201	CYC	CHA-C1A-NA	-5.07	121.80	128.83
11	C1	201	CYC	C2B-C1B-NB	5.07	114.41	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	I8	201	CYC	CHA-C1A-NA	-5.07	121.80	128.83
11	K8	201	CYC	CHA-C1A-NA	-5.07	121.80	128.83
11	M8	202	CYC	CHA-C1A-NA	-5.07	121.80	128.83
11	X4	201	CYC	CHA-C1A-NA	-5.06	121.81	128.83
11	P1	202	CYC	C2B-C1B-NB	5.06	114.40	106.99
11	M1	202	CYC	C2B-C1B-NB	5.06	114.40	106.99
11	P4	201	CYC	CHA-C1A-NA	-5.06	121.81	128.83
11	M1	202	CYC	C1B-CHB-C4A	5.06	140.44	128.08
11	J5	201	CYC	CMA-C3A-C4A	5.06	132.85	125.06
11	M5	202	CYC	C1B-CHB-C4A	5.05	140.43	128.08
11	T5	201	CYC	C1B-CHB-C4A	5.05	140.43	128.08
11	B1	201	CYC	CMA-C3A-C4A	5.05	132.85	125.06
11	Q5	201	CYC	CMA-C3A-C4A	5.05	132.85	125.06
11	T1	201	CYC	C1B-CHB-C4A	5.05	140.43	128.08
11	K4	201	CYC	CHA-C1A-NA	-5.05	121.82	128.83
11	G8	202	CYC	CHA-C1A-NA	-5.05	121.82	128.83
11	G5	202	CYC	C1B-CHB-C4A	5.05	140.42	128.08
11	C5	202	CYC	CMA-C3A-C4A	5.05	132.84	125.06
11	C1	201	CYC	C1B-CHB-C4A	5.05	140.41	128.08
11	R1	202	CYC	C1B-CHB-C4A	5.05	140.41	128.08
11	R5	202	CYC	C1B-CHB-C4A	5.05	140.41	128.08
11	S1	201	CYC	CMA-C3A-C4A	5.05	132.84	125.06
11	D1	201	CYC	C1B-CHB-C4A	5.05	140.41	128.08
11	U1	202	CYC	C1B-CHB-C4A	5.05	140.41	128.08
11	H5	201	CYC	CMA-C3A-C4A	5.05	132.83	125.06
11	H1	201	CYC	CMA-C3A-C4A	5.04	132.83	125.06
11	G1	202	CYC	C1B-CHB-C4A	5.04	140.40	128.08
11	I1	202	CYC	C1B-CHB-C4A	5.04	140.40	128.08
11	O5	201	CYC	CMA-C3A-C4A	5.04	132.83	125.06
11	J1	201	CYC	CMA-C3A-C4A	5.04	132.83	125.06
11	Z5	202	CYC	C2B-C1B-NB	5.04	114.36	106.99
11	I5	202	CYC	C1B-CHB-C4A	5.04	140.39	128.08
11	C1	202	CYC	CMA-C3A-C4A	5.04	132.82	125.06
11	I4	201	CYC	CHA-C1A-NA	-5.04	121.84	128.83
11	K5	202	CYC	C1B-CHB-C4A	5.03	140.38	128.08
11	Q1	201	CYC	CMA-C3A-C4A	5.03	132.82	125.06
11	S5	201	CYC	CMA-C3A-C4A	5.03	132.82	125.06
11	Z1	202	CYC	C1B-CHB-C4A	5.03	140.38	128.08
11	P5	202	CYC	C1B-CHB-C4A	5.03	140.38	128.08
11	L5	201	CYC	CMA-C3A-C4A	5.03	132.81	125.06
11	K7	1001	CYC	CAC-C3C-C4C	-5.03	99.75	112.67
11	C5	201	CYC	C1B-CHB-C4A	5.03	140.37	128.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	X5	202	CYC	C1B-CHB-C4A	5.03	140.37	128.08
11	F1	201	CYC	CMA-C3A-C4A	5.03	132.81	125.06
11	L1	201	CYC	CMA-C3A-C4A	5.03	132.81	125.06
11	G4	202	CYC	CHA-C1A-NA	-5.03	121.85	128.83
11	U5	202	CYC	C1B-CHB-C4A	5.03	140.37	128.08
11	Z5	202	CYC	C1B-CHB-C4A	5.03	140.36	128.08
11	X1	202	CYC	C1B-CHB-C4A	5.03	140.36	128.08
11	O1	201	CYC	CMA-C3A-C4A	5.02	132.80	125.06
11	K1	202	CYC	C1B-CHB-C4A	5.02	140.36	128.08
11	V1	202	CYC	CMA-C3A-C4A	5.02	132.80	125.06
11	B7	1001	CYC	CAC-C3C-C4C	-5.02	99.78	112.67
11	X5	203	CYC	CMA-C3A-C4A	5.02	132.80	125.06
11	I7	1001	CYC	CAC-C3C-C4C	-5.02	99.78	112.67
11	V5	202	CYC	CMA-C3A-C4A	5.02	132.79	125.06
11	P1	202	CYC	C1B-CHB-C4A	5.02	140.33	128.08
11	P7	1001	CYC	CAC-C3C-C4C	-5.01	99.80	112.67
11	F5	201	CYC	CMA-C3A-C4A	5.01	132.78	125.06
11	X1	203	CYC	CMA-C3A-C4A	5.01	132.78	125.06
11	D7	1001	CYC	CAC-C3C-C4C	-5.01	99.81	112.67
11	a7	1001	CYC	CAC-C3C-C4C	-5.01	99.81	112.67
11	M7	1001	CYC	CAC-C3C-C4C	-5.01	99.81	112.67
11	Y7	1001	CYC	CAC-C3C-C4C	-5.01	99.82	112.67
11	T7	1001	CYC	CAC-C3C-C4C	-5.00	99.83	112.67
11	W7	1001	CYC	CAC-C3C-C4C	-5.00	99.83	112.67
11	V3	201	CYC	C2B-C1B-NB	5.00	114.31	106.99
11	U1	201	CYC	CMA-C3A-C4A	5.00	132.77	125.06
11	F7	1001	CYC	CAC-C3C-C4C	-5.00	99.83	112.67
11	U5	201	CYC	CMA-C3A-C4A	5.00	132.76	125.06
11	R7	1001	CYC	CAC-C3C-C4C	-5.00	99.84	112.67
11	P1	202	CYC	CHA-C1A-C2A	-5.00	113.78	125.32
11	G5	202	CYC	CHA-C1A-C2A	-4.99	113.79	125.32
11	X5	202	CYC	CHA-C1A-C2A	-4.99	113.79	125.32
11	P5	202	CYC	CHA-C1A-C2A	-4.99	113.80	125.32
11	G1	202	CYC	CHA-C1A-C2A	-4.98	113.80	125.32
11	Z5	202	CYC	CHA-C1A-C2A	-4.98	113.81	125.32
11	U5	202	CYC	CHA-C1A-C2A	-4.98	113.81	125.32
11	T5	201	CYC	CHA-C1A-C2A	-4.98	113.81	125.32
11	R5	202	CYC	CHA-C1A-C2A	-4.98	113.82	125.32
11	I5	202	CYC	CHA-C1A-C2A	-4.98	113.82	125.32
11	X1	202	CYC	CHA-C1A-C2A	-4.98	113.83	125.32
11	M1	202	CYC	CHA-C1A-C2A	-4.97	113.83	125.32
11	Z1	202	CYC	CHA-C1A-C2A	-4.97	113.83	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	R1	202	CYC	CHA-C1A-C2A	-4.97	113.83	125.32
11	I1	202	CYC	CHA-C1A-C2A	-4.97	113.84	125.32
11	U1	202	CYC	CHA-C1A-C2A	-4.97	113.84	125.32
11	T1	201	CYC	CHA-C1A-C2A	-4.97	113.84	125.32
11	M5	202	CYC	CHA-C1A-C2A	-4.97	113.85	125.32
11	D1	201	CYC	CHA-C1A-C2A	-4.96	113.86	125.32
11	C1	201	CYC	CHA-C1A-C2A	-4.96	113.86	125.32
11	D5	201	CYC	CHA-C1A-C2A	-4.96	113.86	125.32
11	m3	201	CYC	C2B-C1B-NB	4.96	114.25	106.99
11	K1	202	CYC	CHA-C1A-C2A	-4.96	113.87	125.32
11	K5	202	CYC	CHA-C1A-C2A	-4.96	113.87	125.32
11	C5	201	CYC	CHA-C1A-C2A	-4.95	113.88	125.32
11	I5	202	CYC	CAB-C3B-C4B	4.94	129.19	121.38
11	M5	202	CYC	CAB-C3B-C4B	4.94	129.19	121.38
11	G3	1001	CYC	C2B-C1B-NB	4.93	114.21	106.99
11	R5	202	CYC	CAB-C3B-C4B	4.93	129.16	121.38
11	q3	1001	CYC	C2B-C1B-NB	4.93	114.20	106.99
11	K1	202	CYC	CAB-C3B-C4B	4.93	129.16	121.38
11	Z3	1001	CYC	C2B-C1B-NB	4.92	114.19	106.99
11	M1	202	CYC	CAB-C3B-C4B	4.92	129.15	121.38
11	X5	202	CYC	CAB-C3B-C4B	4.92	129.15	121.38
11	I1	202	CYC	CAB-C3B-C4B	4.92	129.15	121.38
11	R1	202	CYC	CAB-C3B-C4B	4.92	129.15	121.38
11	K5	202	CYC	CAB-C3B-C4B	4.92	129.15	121.38
11	C5	201	CYC	CAB-C3B-C4B	4.92	129.15	121.38
11	I3	1001	CYC	C2B-C1B-NB	4.92	114.19	106.99
11	w3	1001	CYC	C2B-C1B-NB	4.92	114.19	106.99
11	T5	201	CYC	CAB-C3B-C4B	4.92	129.14	121.38
11	X1	202	CYC	CAB-C3B-C4B	4.91	129.14	121.38
11	X3	1001	CYC	C2B-C1B-NB	4.91	114.18	106.99
11	T3	1001	CYC	C2B-C1B-NB	4.91	114.18	106.99
11	J6	201	CYC	O2D-CGD-CBD	4.91	129.81	114.03
11	k3	1001	CYC	C2B-C1B-NB	4.91	114.18	106.99
11	u3	1001	CYC	C2B-C1B-NB	4.91	114.18	106.99
11	T1	201	CYC	CAB-C3B-C4B	4.91	129.13	121.38
11	U5	202	CYC	CAB-C3B-C4B	4.91	129.13	121.38
11	P1	202	CYC	CAB-C3B-C4B	4.91	129.13	121.38
11	U6	201	CYC	O2D-CGD-CBD	4.91	129.80	114.03
11	g3	1001	CYC	CAB-C3B-C4B	4.91	129.13	121.38
11	d3	1001	CYC	C2B-C1B-NB	4.91	114.17	106.99
11	U1	202	CYC	CAB-C3B-C4B	4.91	129.13	121.38
11	I2	203	CYC	O2D-CGD-CBD	4.91	129.79	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Q2	201	CYC	O2D-CGD-CBD	4.90	129.79	114.03
11	W6	201	CYC	O2D-CGD-CBD	4.90	129.78	114.03
11	G5	202	CYC	CAB-C3B-C4B	4.90	129.12	121.38
11	N3	1001	CYC	C2B-C1B-NB	4.90	114.16	106.99
11	f3	1001	CYC	C2B-C1B-NB	4.90	114.16	106.99
11	C1	201	CYC	CAB-C3B-C4B	4.90	129.12	121.38
11	Z2	201	CYC	O2D-CGD-CBD	4.90	129.77	114.03
11	K2	203	CYC	O2D-CGD-CBD	4.90	129.76	114.03
11	K3	1001	CYC	C2B-C1B-NB	4.90	114.16	106.99
11	o3	1001	CYC	C2B-C1B-NB	4.90	114.16	106.99
11	W2	201	CYC	O2D-CGD-CBD	4.90	129.76	114.03
11	X2	203	CYC	O2D-CGD-CBD	4.89	129.76	114.03
11	D5	201	CYC	CAB-C3B-C4B	4.89	129.11	121.38
11	Z1	202	CYC	CAB-C3B-C4B	4.89	129.11	121.38
11	P3	1001	CYC	C2B-C1B-NB	4.89	114.15	106.99
11	R3	1001	CYC	C2B-C1B-NB	4.89	114.15	106.99
11	Q6	201	CYC	O2D-CGD-CBD	4.89	129.75	114.03
11	Y6	201	CYC	O2D-CGD-CBD	4.89	129.74	114.03
11	s3	1001	CYC	C2B-C1B-NB	4.89	114.14	106.99
11	T2	201	CYC	O2D-CGD-CBD	4.89	129.73	114.03
11	Q3	1001	CYC	CAB-C3B-C4B	4.89	129.10	121.38
11	y3	1001	CYC	C2B-C1B-NB	4.89	114.14	106.99
11	i3	1001	CYC	C2B-C1B-NB	4.88	114.14	106.99
11	H2	201	CYC	O2D-CGD-CBD	4.88	129.72	114.03
11	O6	201	CYC	O2D-CGD-CBD	4.88	129.72	114.03
11	E2	203	CYC	O2D-CGD-CBD	4.88	129.71	114.03
11	D1	201	CYC	CAB-C3B-C4B	4.88	129.09	121.38
11	B2	201	CYC	O2D-CGD-CBD	4.88	129.71	114.03
11	Z5	202	CYC	CAB-C3B-C4B	4.88	129.08	121.38
11	b3	1001	CYC	C2B-C1B-NB	4.88	114.13	106.99
11	L6	201	CYC	O2D-CGD-CBD	4.88	129.70	114.03
11	G1	202	CYC	CAB-C3B-C4B	4.88	129.08	121.38
11	H6	201	CYC	O2D-CGD-CBD	4.88	129.70	114.03
11	D2	201	CYC	O2D-CGD-CBD	4.87	129.69	114.03
11	P5	202	CYC	CAB-C3B-C4B	4.87	129.08	121.38
11	S2	201	CYC	O2D-CGD-CBD	4.87	129.69	114.03
11	F6	201	CYC	O2D-CGD-CBD	4.87	129.68	114.03
11	C6	203	CYC	O2D-CGD-CBD	4.87	129.68	114.03
11	R6	202	CYC	O2D-CGD-CBD	4.86	129.66	114.03
11	B6	201	CYC	O2D-CGD-CBD	4.86	129.66	114.03
11	E4	203	CYC	CHA-C1A-NA	-4.86	122.08	128.83
11	Z3	1001	CYC	CAB-C3B-C4B	4.86	129.05	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	u3	1001	CYC	CAB-C3B-C4B	4.85	129.04	121.38
11	L4	201	CYC	CHA-C1A-NA	-4.85	122.10	128.83
11	w3	1001	CYC	CAB-C3B-C4B	4.85	129.03	121.38
11	k3	1001	CYC	CAB-C3B-C4B	4.85	129.03	121.38
11	s3	1001	CYC	CAB-C3B-C4B	4.84	129.03	121.38
11	T4	201	CYC	CBC-CAC-C3C	-4.84	102.69	113.47
11	U4	201	CYC	CHA-C1A-NA	-4.84	122.11	128.83
11	I3	1001	CYC	CAB-C3B-C4B	4.84	129.02	121.38
11	d3	1001	CYC	CAB-C3B-C4B	4.84	129.02	121.38
11	E8	203	CYC	CHA-C1A-NA	-4.84	122.11	128.83
11	R3	1001	CYC	CAB-C3B-C4B	4.84	129.02	121.38
11	G3	1001	CYC	CAB-C3B-C4B	4.84	129.02	121.38
11	N4	301	CYC	CBC-CAC-C3C	-4.84	102.70	113.47
11	X3	1001	CYC	CAB-C3B-C4B	4.83	129.01	121.38
11	A4	301	CYC	CHD-C4C-NC	4.83	130.95	125.20
11	A8	301	CYC	CBC-CAC-C3C	-4.83	102.71	113.47
11	T3	1001	CYC	CAB-C3B-C4B	4.83	129.01	121.38
11	Z6	201	CYC	CBC-CAC-C3C	-4.83	102.71	113.47
11	f3	1001	CYC	CAB-C3B-C4B	4.83	129.01	121.38
11	M4	202	CYC	CBC-CAC-C3C	-4.83	102.71	113.47
11	L8	201	CYC	CHA-C1A-NA	-4.83	122.13	128.83
11	T8	201	CYC	CBC-CAC-C3C	-4.83	102.72	113.47
11	P3	1001	CYC	CAB-C3B-C4B	4.83	129.00	121.38
11	i3	1001	CYC	CAB-C3B-C4B	4.83	129.00	121.38
11	A4	301	CYC	CBC-CAC-C3C	-4.83	102.72	113.47
11	G8	202	CYC	CBC-CAC-C3C	-4.83	102.72	113.47
11	b3	1001	CYC	CAB-C3B-C4B	4.82	129.00	121.38
11	L8	201	CYC	CBD-CAD-C3D	4.82	120.85	112.62
11	q3	1001	CYC	CAB-C3B-C4B	4.82	129.00	121.38
11	G4	202	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
11	Z4	201	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
11	o3	1001	CYC	CAB-C3B-C4B	4.82	129.00	121.38
11	I4	201	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
11	K6	201	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
11	N3	1001	CYC	CAB-C3B-C4B	4.82	129.00	121.38
11	Z2	202	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
11	M8	202	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
11	Z8	201	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
11	V2	201	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
11	P4	201	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
11	N8	301	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
11	y3	1001	CYC	CAB-C3B-C4B	4.82	128.99	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	A2	301	CYC	CBC-CAC-C3C	-4.82	102.74	113.47
11	C2	201	CYC	CBC-CAC-C3C	-4.82	102.74	113.47
11	Y8	201	CYC	CHA-C1A-NA	-4.82	122.15	128.83
11	K3	1001	CYC	CAB-C3B-C4B	4.82	128.99	121.38
11	N2	301	CYC	CBC-CAC-C3C	-4.82	102.75	113.47
11	X4	201	CYC	CBC-CAC-C3C	-4.81	102.75	113.47
11	I6	201	CYC	CBC-CAC-C3C	-4.81	102.75	113.47
11	X8	201	CYC	CBC-CAC-C3C	-4.81	102.75	113.47
11	E4	201	CYC	CBC-CAC-C3C	-4.81	102.75	113.47
11	P4	203	CYC	CHA-C1A-NA	-4.81	122.15	128.83
11	L4	201	CYC	CBD-CAD-C3D	4.81	120.83	112.62
11	S8	201	CYC	CHA-C1A-NA	-4.81	122.15	128.83
11	W8	201	CYC	CHA-C1A-NA	-4.81	122.15	128.83
11	M6	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
11	N6	301	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
11	P6	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
11	P8	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
11	G4	201	CYC	CHA-C1A-NA	-4.81	122.16	128.83
11	E2	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
11	M2	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
11	C6	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
11	I8	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
11	K8	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
11	E8	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
11	Y4	201	CYC	CHA-C1A-NA	-4.81	122.16	128.83
11	U8	201	CYC	CHA-C1A-NA	-4.81	122.16	128.83
11	N6	302	CYC	CBC-CAC-C3C	-4.81	102.77	113.47
11	I8	203	CYC	CHA-C1A-NA	-4.81	122.16	128.83
11	V6	201	CYC	CBC-CAC-C3C	-4.80	102.77	113.47
11	K4	201	CYC	CBC-CAC-C3C	-4.80	102.77	113.47
11	I4	203	CYC	CHA-C1A-NA	-4.80	122.16	128.83
11	E6	201	CYC	CBC-CAC-C3C	-4.80	102.77	113.47
11	V8	201	CYC	CHD-C4C-NC	4.80	130.92	125.20
11	P2	201	CYC	CBC-CAC-C3C	-4.80	102.77	113.47
11	V8	201	CYC	CBC-CAC-C3C	-4.80	102.77	113.47
11	I2	201	CYC	CBC-CAC-C3C	-4.80	102.78	113.47
11	K2	201	CYC	CBC-CAC-C3C	-4.80	102.78	113.47
11	D8	201	CYC	CBD-CAD-C3D	4.80	120.81	112.62
11	G8	201	CYC	CHA-C1A-NA	-4.80	122.17	128.83
11	A8	301	CYC	CHD-C4C-NC	4.80	130.91	125.20
11	G8	201	CYC	CBD-CAD-C3D	4.80	120.81	112.62
11	P8	201	CYC	CHD-C4C-NC	4.80	130.91	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	A6	301	CYC	CBC-CAC-C3C	-4.80	102.78	113.47
11	E4	201	CYC	CHD-C4C-NC	4.80	130.91	125.20
11	N2	302	CYC	CBC-CAC-C3C	-4.80	102.79	113.47
11	E4	203	CYC	CBD-CAD-C3D	4.80	120.80	112.62
11	S4	201	CYC	CBD-CAD-C3D	4.80	120.80	112.62
11	W8	201	CYC	CBD-CAD-C3D	4.80	120.80	112.62
11	G4	201	CYC	CBD-CAD-C3D	4.79	120.80	112.62
11	S8	201	CYC	CBD-CAD-C3D	4.79	120.80	112.62
11	D4	201	CYC	CBD-CAD-C3D	4.79	120.80	112.62
11	W4	201	CYC	CBD-CAD-C3D	4.79	120.80	112.62
11	T4	201	CYC	CHD-C4C-NC	4.79	130.90	125.20
11	K4	201	CYC	C2B-C1B-NB	4.79	114.00	106.99
11	X2	201	CYC	CBC-CAC-C3C	-4.79	102.80	113.47
11	V4	201	CYC	CHD-C4C-NC	4.79	130.90	125.20
11	X6	201	CYC	CBC-CAC-C3C	-4.79	102.80	113.47
11	P8	203	CYC	CHA-C1A-NA	-4.79	122.19	128.83
11	O4	201	CYC	CBD-CAD-C3D	4.78	120.78	112.62
11	V4	201	CYC	CBC-CAC-C3C	-4.78	102.82	113.47
11	U8	201	CYC	CBD-CAD-C3D	4.78	120.78	112.62
11	G8	202	CYC	CHD-C4C-NC	4.78	130.89	125.20
11	M4	201	CYC	CHA-C1A-NA	-4.78	122.19	128.83
11	K4	201	CYC	CHD-C4C-NC	4.78	130.89	125.20
11	W4	201	CYC	CHA-C1A-NA	-4.78	122.20	128.83
11	S4	201	CYC	CHA-C1A-NA	-4.78	122.20	128.83
11	M4	201	CYC	CBD-CAD-C3D	4.78	120.78	112.62
11	O8	201	CYC	CBD-CAD-C3D	4.78	120.78	112.62
11	Y8	201	CYC	CBD-CAD-C3D	4.78	120.78	112.62
11	M8	201	CYC	CBD-CAD-C3D	4.78	120.77	112.62
11	T8	201	CYC	CHD-C4C-NC	4.78	130.89	125.20
11	E8	203	CYC	CBD-CAD-C3D	4.78	120.77	112.62
11	E8	201	CYC	CHD-C4C-NC	4.78	130.88	125.20
11	I8	203	CYC	CBD-CAD-C3D	4.78	120.77	112.62
11	D8	201	CYC	CHA-C1A-NA	-4.78	122.20	128.83
11	M4	202	CYC	C2B-C1B-NB	4.77	113.98	106.99
11	T8	201	CYC	C2B-C1B-NB	4.77	113.98	106.99
11	Z4	201	CYC	CHD-C4C-NC	4.77	130.88	125.20
11	I4	203	CYC	CBD-CAD-C3D	4.77	120.77	112.62
11	A4	301	CYC	C2B-C1B-NB	4.77	113.98	106.99
11	G4	202	CYC	CHD-C4C-NC	4.77	130.88	125.20
11	P8	203	CYC	CBD-CAD-C3D	4.77	120.77	112.62
11	G4	202	CYC	C2B-C1B-NB	4.77	113.98	106.99
11	V8	201	CYC	C2B-C1B-NB	4.77	113.98	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	O4	201	CYC	CHA-C1A-NA	-4.77	122.21	128.83
11	P4	203	CYC	CBD-CAD-C3D	4.77	120.76	112.62
11	A8	301	CYC	C2B-C1B-NB	4.77	113.97	106.99
11	E8	201	CYC	C2B-C1B-NB	4.77	113.97	106.99
11	U4	201	CYC	CBD-CAD-C3D	4.77	120.76	112.62
11	N8	301	CYC	C2B-C1B-NB	4.77	113.97	106.99
11	N4	301	CYC	CHD-C4C-NC	4.77	130.87	125.20
11	X4	201	CYC	C2B-C1B-NB	4.76	113.96	106.99
11	P8	201	CYC	C2B-C1B-NB	4.76	113.96	106.99
11	Y4	201	CYC	CBD-CAD-C3D	4.76	120.75	112.62
11	G8	202	CYC	C2B-C1B-NB	4.76	113.96	106.99
11	O8	201	CYC	CHA-C1A-NA	-4.76	122.22	128.83
11	T5	201	CYC	C1A-NA-C4A	-4.76	97.54	106.51
11	N4	301	CYC	C2B-C1B-NB	4.76	113.96	106.99
11	T4	201	CYC	C2B-C1B-NB	4.76	113.96	106.99
11	Z4	201	CYC	C2B-C1B-NB	4.76	113.95	106.99
11	K8	201	CYC	C2B-C1B-NB	4.76	113.95	106.99
11	R5	202	CYC	C1A-NA-C4A	-4.76	97.55	106.51
11	M8	202	CYC	C2B-C1B-NB	4.76	113.95	106.99
11	N8	301	CYC	CHD-C4C-NC	4.76	130.86	125.20
11	M5	202	CYC	C1A-NA-C4A	-4.76	97.55	106.51
11	Z8	201	CYC	CHD-C4C-NC	4.75	130.86	125.20
11	K8	201	CYC	CHD-C4C-NC	4.75	130.86	125.20
11	P5	202	CYC	C1A-NA-C4A	-4.75	97.56	106.51
11	M4	202	CYC	CHD-C4C-NC	4.75	130.85	125.20
11	G1	202	CYC	C1A-NA-C4A	-4.75	97.56	106.51
11	V4	201	CYC	C2B-C1B-NB	4.75	113.94	106.99
11	I8	201	CYC	C2B-C1B-NB	4.75	113.94	106.99
11	K1	202	CYC	C1A-NA-C4A	-4.75	97.56	106.51
11	T1	201	CYC	C1A-NA-C4A	-4.75	97.56	106.51
11	C1	201	CYC	C1A-NA-C4A	-4.75	97.57	106.51
11	X1	202	CYC	C1A-NA-C4A	-4.75	97.57	106.51
11	I5	202	CYC	C1A-NA-C4A	-4.75	97.57	106.51
11	M1	202	CYC	C1A-NA-C4A	-4.75	97.57	106.51
11	M8	201	CYC	CHA-C1A-NA	-4.75	122.25	128.83
11	E4	201	CYC	C2B-C1B-NB	4.74	113.93	106.99
11	D4	201	CYC	CHA-C1A-NA	-4.74	122.25	128.83
11	K5	202	CYC	C1A-NA-C4A	-4.74	97.57	106.51
11	X8	201	CYC	C2B-C1B-NB	4.74	113.93	106.99
11	R1	202	CYC	C1A-NA-C4A	-4.74	97.57	106.51
11	P4	201	CYC	CHD-C4C-NC	4.74	130.84	125.20
11	P1	202	CYC	C1A-NA-C4A	-4.74	97.58	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	G5	202	CYC	C1A-NA-C4A	-4.74	97.58	106.51
11	P4	201	CYC	C2B-C1B-NB	4.74	113.93	106.99
11	Z5	202	CYC	C1A-NA-C4A	-4.74	97.58	106.51
11	I4	201	CYC	CHD-C4C-NC	4.74	130.84	125.20
11	M8	202	CYC	CHD-C4C-NC	4.74	130.84	125.20
11	U5	202	CYC	C1A-NA-C4A	-4.74	97.58	106.51
11	I8	201	CYC	CHD-C4C-NC	4.74	130.84	125.20
11	I4	201	CYC	C2B-C1B-NB	4.73	113.92	106.99
11	C5	201	CYC	C1A-NA-C4A	-4.73	97.59	106.51
11	U1	202	CYC	C1A-NA-C4A	-4.73	97.59	106.51
11	X5	202	CYC	C1A-NA-C4A	-4.73	97.60	106.51
11	I1	202	CYC	C1A-NA-C4A	-4.73	97.60	106.51
11	Z8	201	CYC	C2B-C1B-NB	4.73	113.91	106.99
11	Z1	202	CYC	C1A-NA-C4A	-4.73	97.61	106.51
11	X8	201	CYC	CHD-C4C-NC	4.72	130.82	125.20
11	D1	201	CYC	C1A-NA-C4A	-4.72	97.62	106.51
11	S5	201	CYC	OB-C4B-C3B	-4.71	122.92	128.04
11	D5	201	CYC	C1A-NA-C4A	-4.71	97.64	106.51
11	F5	201	CYC	CAC-C3C-C2C	-4.70	102.50	114.26
11	X5	203	CYC	CAC-C3C-C2C	-4.70	102.51	114.26
11	X1	203	CYC	CAC-C3C-C2C	-4.70	102.51	114.26
11	U1	201	CYC	CAC-C3C-C2C	-4.70	102.51	114.26
11	F1	201	CYC	CAC-C3C-C2C	-4.70	102.52	114.26
11	H5	201	CYC	CAC-C3C-C2C	-4.69	102.53	114.26
11	S1	201	CYC	CAC-C3C-C2C	-4.69	102.53	114.26
11	S5	201	CYC	CAC-C3C-C2C	-4.69	102.53	114.26
11	J1	201	CYC	CAC-C3C-C2C	-4.69	102.53	114.26
11	L1	201	CYC	CAC-C3C-C2C	-4.69	102.54	114.26
11	U5	201	CYC	CAC-C3C-C2C	-4.69	102.54	114.26
11	C5	202	CYC	CAC-C3C-C2C	-4.69	102.55	114.26
11	H1	201	CYC	CAC-C3C-C2C	-4.69	102.55	114.26
11	V7	1001	CYC	CAB-C3B-C4B	4.69	128.78	121.38
11	C6	203	CYC	CHB-C4A-NA	-4.69	115.13	124.93
11	J5	201	CYC	CAC-C3C-C2C	-4.68	102.56	114.26
11	C1	202	CYC	CAC-C3C-C2C	-4.68	102.56	114.26
11	V1	202	CYC	CAC-C3C-C2C	-4.68	102.56	114.26
11	C7	1001	CYC	CAB-C3B-C4B	4.68	128.77	121.38
11	Q1	201	CYC	CAC-C3C-C2C	-4.68	102.57	114.26
11	L5	201	CYC	CAC-C3C-C2C	-4.68	102.58	114.26
11	Q5	201	CYC	CAC-C3C-C2C	-4.68	102.58	114.26
11	E7	1001	CYC	CAB-C3B-C4B	4.68	128.76	121.38
11	Q7	1001	CYC	CAB-C3B-C4B	4.68	128.76	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	O7	1001	CYC	CAB-C3B-C4B	4.68	128.76	121.38
11	B1	201	CYC	CAC-C3C-C2C	-4.67	102.59	114.26
11	O1	201	CYC	CAC-C3C-C2C	-4.67	102.59	114.26
11	B6	201	CYC	CHB-C4A-NA	-4.67	115.16	124.93
11	B5	201	CYC	CAC-C3C-C2C	-4.67	102.60	114.26
11	B2	201	CYC	CHB-C4A-NA	-4.67	115.17	124.93
11	I2	203	CYC	CHB-C4A-NA	-4.67	115.17	124.93
11	J6	201	CYC	CHB-C4A-NA	-4.66	115.17	124.93
11	Z7	1001	CYC	CAB-C3B-C4B	4.66	128.75	121.38
11	X7	1001	CYC	CAB-C3B-C4B	4.66	128.74	121.38
11	D2	201	CYC	CHB-C4A-NA	-4.66	115.18	124.93
11	X4	201	CYC	CHD-C4C-NC	4.66	130.75	125.20
11	V5	202	CYC	CAC-C3C-C2C	-4.66	102.61	114.26
11	W2	201	CYC	CHB-C4A-NA	-4.66	115.18	124.93
11	L7	1001	CYC	CAB-C3B-C4B	4.66	128.74	121.38
11	Y4	201	CYC	C2B-C1B-NB	4.66	113.81	106.99
11	E2	203	CYC	CHB-C4A-NA	-4.66	115.19	124.93
11	O5	201	CYC	CAC-C3C-C2C	-4.66	102.62	114.26
11	F6	201	CYC	CHB-C4A-NA	-4.66	115.19	124.93
11	C5	202	CYC	OB-C4B-C3B	-4.66	122.99	128.04
11	U6	201	CYC	CHB-C4A-NA	-4.66	115.19	124.93
11	H5	201	CYC	OB-C4B-C3B	-4.65	122.99	128.04
11	B5	201	CYC	OB-C4B-C3B	-4.65	122.99	128.04
11	S1	201	CYC	OB-C4B-C3B	-4.65	122.99	128.04
11	Q6	201	CYC	CHB-C4A-NA	-4.65	115.21	124.93
11	U8	201	CYC	C2B-C1B-NB	4.65	113.79	106.99
11	S2	201	CYC	CHB-C4A-NA	-4.65	115.21	124.93
11	T2	201	CYC	CHB-C4A-NA	-4.65	115.21	124.93
11	R6	202	CYC	CHB-C4A-NA	-4.65	115.22	124.93
11	J7	1001	CYC	CAB-C3B-C4B	4.65	128.72	121.38
11	A7	1001	CYC	CAB-C3B-C4B	4.64	128.72	121.38
11	H1	201	CYC	OB-C4B-C3B	-4.64	123.00	128.04
11	Z2	201	CYC	CHB-C4A-NA	-4.64	115.22	124.93
11	H7	1001	CYC	CAB-C3B-C4B	4.64	128.71	121.38
11	Q2	201	CYC	CHB-C4A-NA	-4.64	115.22	124.93
11	K2	203	CYC	CHB-C4A-NA	-4.64	115.22	124.93
11	W6	201	CYC	CHB-C4A-NA	-4.64	115.22	124.93
11	Q5	201	CYC	OB-C4B-C3B	-4.64	123.00	128.04
11	O6	201	CYC	CHB-C4A-NA	-4.64	115.22	124.93
11	U4	201	CYC	C2B-C1B-NB	4.64	113.78	106.99
11	S7	1001	CYC	CAB-C3B-C4B	4.64	128.71	121.38
11	X2	203	CYC	CHB-C4A-NA	-4.64	115.23	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	H2	201	CYC	CHB-C4A-NA	-4.63	115.24	124.93
11	Y6	201	CYC	CHB-C4A-NA	-4.63	115.24	124.93
11	C1	202	CYC	OB-C4B-C3B	-4.63	123.02	128.04
11	Z8	201	CYC	C4D-CHA-C1A	4.63	134.34	128.81
11	O1	201	CYC	OB-C4B-C3B	-4.63	123.02	128.04
11	L6	201	CYC	CHB-C4A-NA	-4.63	115.25	124.93
11	A4	301	CYC	C4D-CHA-C1A	4.63	134.34	128.81
11	N4	301	CYC	C4D-CHA-C1A	4.63	134.34	128.81
11	S4	201	CYC	C2B-C1B-NB	4.62	113.76	106.99
11	S8	201	CYC	C2B-C1B-NB	4.62	113.76	106.99
11	H6	201	CYC	CHB-C4A-NA	-4.62	115.26	124.93
11	M8	201	CYC	C2B-C1B-NB	4.62	113.75	106.99
11	Z4	201	CYC	C4D-CHA-C1A	4.62	134.33	128.81
11	X1	203	CYC	OB-C4B-C3B	-4.62	123.03	128.04
11	B1	201	CYC	OB-C4B-C3B	-4.62	123.03	128.04
11	O5	201	CYC	OB-C4B-C3B	-4.62	123.03	128.04
11	F5	201	CYC	OB-C4B-C3B	-4.62	123.03	128.04
11	V4	201	CYC	C4D-CHA-C1A	4.62	134.33	128.81
11	M4	201	CYC	C2B-C1B-NB	4.62	113.75	106.99
11	G8	201	CYC	C2B-C1B-NB	4.62	113.75	106.99
11	W4	201	CYC	C2B-C1B-NB	4.62	113.75	106.99
11	E8	203	CYC	C2B-C1B-NB	4.62	113.75	106.99
11	Y8	201	CYC	C2B-C1B-NB	4.62	113.75	106.99
11	L4	201	CYC	C2B-C1B-NB	4.62	113.75	106.99
11	Q1	201	CYC	OB-C4B-C3B	-4.62	123.03	128.04
11	L8	201	CYC	C2B-C1B-NB	4.61	113.74	106.99
11	D8	201	CYC	C2B-C1B-NB	4.61	113.74	106.99
11	X5	203	CYC	OB-C4B-C3B	-4.61	123.04	128.04
11	T4	201	CYC	C4D-CHA-C1A	4.61	134.32	128.81
11	V8	201	CYC	C4D-CHA-C1A	4.61	134.32	128.81
11	W8	201	CYC	C2B-C1B-NB	4.61	113.74	106.99
11	P8	203	CYC	C2B-C1B-NB	4.61	113.73	106.99
11	P4	203	CYC	C2B-C1B-NB	4.61	113.73	106.99
11	m3	201	CYC	CBD-CAD-C3D	-4.60	104.76	112.62
11	F1	201	CYC	OB-C4B-C3B	-4.60	123.05	128.04
11	J5	201	CYC	OB-C4B-C3B	-4.60	123.05	128.04
11	N8	301	CYC	C4D-CHA-C1A	4.60	134.31	128.81
11	L1	201	CYC	OB-C4B-C3B	-4.60	123.05	128.04
11	E8	201	CYC	C4D-CHA-C1A	4.60	134.30	128.81
11	A8	301	CYC	C4D-CHA-C1A	4.60	134.30	128.81
11	I8	203	CYC	C2B-C1B-NB	4.60	113.72	106.99
11	D4	201	CYC	C2B-C1B-NB	4.60	113.72	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	T8	201	CYC	C4D-CHA-C1A	4.59	134.30	128.81
11	I4	203	CYC	C2B-C1B-NB	4.59	113.71	106.99
11	E4	203	CYC	C2B-C1B-NB	4.59	113.71	106.99
11	G4	201	CYC	C2B-C1B-NB	4.59	113.71	106.99
11	13	902	CYC	CAB-C3B-C4B	4.59	128.63	121.38
11	V3	201	CYC	CBD-CAD-C3D	-4.59	104.79	112.62
11	H3	1001	CYC	CAB-C3B-C4B	4.59	128.62	121.38
11	E4	201	CYC	C4D-CHA-C1A	4.58	134.28	128.81
11	O8	201	CYC	C2B-C1B-NB	4.58	113.69	106.99
11	G8	202	CYC	C4D-CHA-C1A	4.58	134.28	128.81
11	V5	202	CYC	OB-C4B-C3B	-4.58	123.07	128.04
11	X8	201	CYC	C4D-CHA-C1A	4.58	134.28	128.81
11	J1	201	CYC	OB-C4B-C3B	-4.57	123.08	128.04
11	I8	201	CYC	C4D-CHA-C1A	4.57	134.27	128.81
11	U1	201	CYC	OB-C4B-C3B	-4.57	123.08	128.04
11	n3	1001	CYC	CAB-C3B-C4B	4.57	128.60	121.38
11	G4	202	CYC	C4D-CHA-C1A	4.57	134.27	128.81
11	M8	202	CYC	C4D-CHA-C1A	4.57	134.27	128.81
11	X4	201	CYC	C4D-CHA-C1A	4.57	134.27	128.81
11	O4	201	CYC	C2B-C1B-NB	4.57	113.68	106.99
11	U5	201	CYC	OB-C4B-C3B	-4.56	123.09	128.04
11	K8	201	CYC	C4D-CHA-C1A	4.56	134.26	128.81
11	K4	201	CYC	C4D-CHA-C1A	4.55	134.25	128.81
11	L5	201	CYC	OB-C4B-C3B	-4.55	123.10	128.04
11	S3	1001	CYC	CAB-C3B-C4B	4.55	128.57	121.38
11	M3	201	CYC	CAB-C3B-C4B	4.55	128.56	121.38
11	r3	1001	CYC	CAB-C3B-C4B	4.55	128.56	121.38
11	M4	202	CYC	C4D-CHA-C1A	4.55	134.24	128.81
11	P4	201	CYC	C4D-CHA-C1A	4.55	134.24	128.81
11	J3	201	CYC	CAB-C3B-C4B	4.55	128.56	121.38
11	V1	202	CYC	OB-C4B-C3B	-4.54	123.11	128.04
11	P8	201	CYC	C4D-CHA-C1A	4.54	134.24	128.81
11	O3	1001	CYC	CAB-C3B-C4B	4.54	128.56	121.38
11	I4	201	CYC	C4D-CHA-C1A	4.54	134.24	128.81
11	U3	1001	CYC	CAB-C3B-C4B	4.54	128.55	121.38
11	l3	1001	CYC	CAB-C3B-C4B	4.54	128.54	121.38
11	p3	1001	CYC	CAB-C3B-C4B	4.54	128.54	121.38
11	v3	1001	CYC	CAB-C3B-C4B	4.54	128.54	121.38
11	e3	1001	CYC	CAB-C3B-C4B	4.54	128.54	121.38
11	W3	1001	CYC	CAB-C3B-C4B	4.53	128.54	121.38
11	13	904	CYC	CAB-C3B-C4B	4.53	128.54	121.38
11	13	903	CYC	CAB-C3B-C4B	4.53	128.54	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	t3	1001	CYC	CAB-C3B-C4B	4.53	128.53	121.38
11	z3	1001	CYC	CAB-C3B-C4B	4.53	128.53	121.38
11	03	902	CYC	CAB-C3B-C4B	4.53	128.53	121.38
11	c3	1001	CYC	CAB-C3B-C4B	4.53	128.53	121.38
11	j3	1001	CYC	CAB-C3B-C4B	4.53	128.53	121.38
11	x3	1001	CYC	CAB-C3B-C4B	4.52	128.52	121.38
11	Q3	1001	CYC	CHA-C1A-NA	-4.52	122.56	128.83
11	O7	1001	CYC	CHA-C1A-NA	-4.51	122.58	128.83
11	03	901	CYC	OC-C1C-C2C	-4.50	122.59	126.17
11	L7	1001	CYC	CHA-C1A-NA	-4.49	122.59	128.83
11	13	901	CYC	OC-C1C-C2C	-4.49	122.60	126.17
11	g3	1001	CYC	CHA-C1A-NA	-4.49	122.60	128.83
11	E7	1001	CYC	CHA-C1A-NA	-4.49	122.60	128.83
11	C7	1001	CYC	CHA-C1A-NA	-4.49	122.60	128.83
11	J7	1001	CYC	CHA-C1A-NA	-4.49	122.60	128.83
11	Z7	1001	CYC	CHA-C1A-NA	-4.48	122.61	128.83
11	H7	1001	CYC	CHA-C1A-NA	-4.48	122.61	128.83
11	X7	1001	CYC	CHA-C1A-NA	-4.48	122.61	128.83
11	S7	1001	CYC	CHA-C1A-NA	-4.48	122.62	128.83
11	C7	1001	CYC	OB-C4B-C3B	-4.48	123.18	128.04
11	V7	1001	CYC	OB-C4B-C3B	-4.47	123.19	128.04
11	V7	1001	CYC	CHA-C1A-NA	-4.47	122.62	128.83
11	E7	1001	CYC	OB-C4B-C3B	-4.46	123.20	128.04
11	Q7	1001	CYC	OB-C4B-C3B	-4.46	123.20	128.04
11	L7	1001	CYC	OB-C4B-C3B	-4.46	123.20	128.04
11	Q7	1001	CYC	CHA-C1A-NA	-4.45	122.65	128.83
11	Z7	1001	CYC	OB-C4B-C3B	-4.45	123.21	128.04
11	A7	1001	CYC	CHA-C1A-NA	-4.45	122.66	128.83
11	L4	201	CYC	CHB-C4A-NA	-4.45	115.63	124.93
11	D8	201	CYC	CHB-C4A-NA	-4.44	115.64	124.93
11	A7	1001	CYC	OB-C4B-C3B	-4.44	123.22	128.04
11	U6	201	CYC	C2B-C1B-NB	4.44	113.49	106.99
11	P4	203	CYC	CHB-C4A-NA	-4.44	115.65	124.93
11	W4	201	CYC	CHB-C4A-NA	-4.44	115.65	124.93
11	V7	1001	CYC	CAC-C3C-C2C	-4.44	103.17	114.26
11	U4	201	CYC	CHB-C4A-NA	-4.44	115.65	124.93
11	H7	1001	CYC	OB-C4B-C3B	-4.44	123.22	128.04
11	U8	201	CYC	CHB-C4A-NA	-4.44	115.65	124.93
11	X7	1001	CYC	OB-C4B-C3B	-4.44	123.22	128.04
11	D4	201	CYC	CHB-C4A-NA	-4.44	115.65	124.93
11	I8	203	CYC	CHB-C4A-NA	-4.44	115.65	124.93
11	W8	201	CYC	CHB-C4A-NA	-4.44	115.65	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	E7	1001	CYC	CAC-C3C-C2C	-4.43	103.18	114.26
11	M4	201	CYC	CHB-C4A-NA	-4.43	115.66	124.93
11	R6	202	CYC	C2B-C1B-NB	4.43	113.47	106.99
11	O8	201	CYC	CHB-C4A-NA	-4.43	115.67	124.93
11	L7	1001	CYC	CAC-C3C-C2C	-4.43	103.19	114.26
11	P8	203	CYC	CHB-C4A-NA	-4.43	115.67	124.93
11	X5	203	CYC	O1A-CGA-CBA	4.43	137.31	123.08
11	G4	201	CYC	CHB-C4A-NA	-4.43	115.67	124.93
11	O4	201	CYC	CHB-C4A-NA	-4.43	115.67	124.93
11	Q7	1001	CYC	CAC-C3C-C2C	-4.43	103.20	114.26
11	O7	1001	CYC	OB-C4B-C3B	-4.43	123.23	128.04
11	Y8	201	CYC	CHB-C4A-NA	-4.43	115.67	124.93
11	J7	1001	CYC	CAC-C3C-C2C	-4.43	103.20	114.26
11	E8	203	CYC	CHB-C4A-NA	-4.43	115.67	124.93
11	A7	1001	CYC	CAC-C3C-C2C	-4.43	103.20	114.26
11	H1	201	CYC	O1A-CGA-CBA	4.43	137.30	123.08
11	S7	1001	CYC	OB-C4B-C3B	-4.43	123.24	128.04
11	Q1	201	CYC	O1A-CGA-CBA	4.43	137.30	123.08
11	H7	1001	CYC	CAC-C3C-C2C	-4.43	103.20	114.26
11	X1	203	CYC	O1A-CGA-CBA	4.43	137.30	123.08
11	G8	201	CYC	CHB-C4A-NA	-4.43	115.68	124.93
11	I4	203	CYC	CHB-C4A-NA	-4.42	115.68	124.93
11	J6	201	CYC	C2B-C1B-NB	4.42	113.47	106.99
11	Q2	201	CYC	C2B-C1B-NB	4.42	113.46	106.99
11	O7	1001	CYC	CAC-C3C-C2C	-4.42	103.21	114.26
11	H5	201	CYC	O1A-CGA-CBA	4.42	137.29	123.08
11	U5	201	CYC	O1A-CGA-CBA	4.42	137.29	123.08
11	L6	201	CYC	C2B-C1B-NB	4.42	113.46	106.99
11	S8	201	CYC	CHB-C4A-NA	-4.42	115.68	124.93
11	C1	202	CYC	O1A-CGA-CBA	4.42	137.28	123.08
11	L8	201	CYC	CHB-C4A-NA	-4.42	115.69	124.93
11	J7	1001	CYC	OB-C4B-C3B	-4.42	123.24	128.04
11	S5	201	CYC	O1A-CGA-CBA	4.42	137.28	123.08
11	I2	203	CYC	C2B-C1B-NB	4.42	113.46	106.99
11	E4	203	CYC	CHB-C4A-NA	-4.42	115.69	124.93
11	X7	1001	CYC	CAC-C3C-C2C	-4.42	103.22	114.26
11	U1	201	CYC	O1A-CGA-CBA	4.42	137.28	123.08
11	C7	1001	CYC	CAC-C3C-C2C	-4.42	103.22	114.26
11	B5	201	CYC	O1A-CGA-CBA	4.42	137.28	123.08
11	H2	201	CYC	C2B-C1B-NB	4.42	113.46	106.99
11	B1	201	CYC	O1A-CGA-CBA	4.42	137.28	123.08
11	F1	201	CYC	O1A-CGA-CBA	4.42	137.27	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	V1	202	CYC	O1A-CGA-CBA	4.42	137.27	123.08
11	F5	201	CYC	O1A-CGA-CBA	4.42	137.27	123.08
11	B2	201	CYC	C2B-C1B-NB	4.42	113.45	106.99
11	S2	201	CYC	C2B-C1B-NB	4.42	113.45	106.99
11	Q5	201	CYC	O1A-CGA-CBA	4.41	137.26	123.08
11	J5	201	CYC	O1A-CGA-CBA	4.41	137.26	123.08
11	K2	203	CYC	C2B-C1B-NB	4.41	113.45	106.99
11	Z2	201	CYC	C2B-C1B-NB	4.41	113.45	106.99
11	F6	201	CYC	C2B-C1B-NB	4.41	113.45	106.99
11	Z7	1001	CYC	CAC-C3C-C2C	-4.41	103.23	114.26
11	V5	202	CYC	O1A-CGA-CBA	4.41	137.25	123.08
11	C5	202	CYC	O1A-CGA-CBA	4.41	137.25	123.08
11	S4	201	CYC	CHB-C4A-NA	-4.41	115.71	124.93
11	H6	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
11	M8	201	CYC	CHB-C4A-NA	-4.41	115.71	124.93
11	E2	203	CYC	C2B-C1B-NB	4.41	113.44	106.99
11	C6	203	CYC	C2B-C1B-NB	4.41	113.44	106.99
11	B6	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
11	S7	1001	CYC	CAC-C3C-C2C	-4.41	103.25	114.26
11	J1	201	CYC	O1A-CGA-CBA	4.41	137.24	123.08
11	m3	201	CYC	OC-C1C-C2C	-4.41	122.67	126.17
11	S1	201	CYC	O1A-CGA-CBA	4.40	137.22	123.08
11	X2	203	CYC	C2B-C1B-NB	4.40	113.43	106.99
11	L1	201	CYC	O1A-CGA-CBA	4.40	137.22	123.08
11	O1	201	CYC	O1A-CGA-CBA	4.40	137.22	123.08
11	L5	201	CYC	O1A-CGA-CBA	4.40	137.21	123.08
11	V3	201	CYC	OC-C1C-C2C	-4.40	122.68	126.17
11	Y4	201	CYC	CHB-C4A-NA	-4.40	115.73	124.93
11	D2	201	CYC	C2B-C1B-NB	4.40	113.42	106.99
11	O5	201	CYC	O1A-CGA-CBA	4.40	137.21	123.08
11	J3	201	CYC	CHB-C4A-C3A	4.39	136.20	124.90
11	T2	201	CYC	C2B-C1B-NB	4.39	113.42	106.99
11	Y6	201	CYC	C2B-C1B-NB	4.39	113.41	106.99
11	S3	1001	CYC	CHB-C4A-C3A	4.39	136.19	124.90
11	U3	1001	CYC	CHB-C4A-C3A	4.39	136.18	124.90
11	Q6	201	CYC	C2B-C1B-NB	4.39	113.41	106.99
11	W6	201	CYC	C2B-C1B-NB	4.39	113.41	106.99
11	Z8	201	CYC	CMA-C3A-C4A	4.39	131.82	125.06
11	v3	1001	CYC	CHB-C4A-C3A	4.38	136.17	124.90
11	t3	1001	CYC	CHB-C4A-C3A	4.38	136.16	124.90
11	z3	1001	CYC	CHB-C4A-C3A	4.38	136.16	124.90
11	W2	201	CYC	C2B-C1B-NB	4.38	113.40	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	W3	1001	CYC	CHB-C4A-C3A	4.38	136.16	124.90
11	13	904	CYC	CHB-C4A-C3A	4.37	136.15	124.90
11	x3	1001	CYC	CHB-C4A-C3A	4.37	136.15	124.90
11	I8	201	CYC	CMA-C3A-C4A	4.37	131.80	125.06
11	e3	1001	CYC	CHB-C4A-C3A	4.37	136.15	124.90
11	l3	1001	CYC	CHB-C4A-C3A	4.37	136.15	124.90
11	n3	1001	CYC	CHB-C4A-C3A	4.37	136.14	124.90
11	13	903	CYC	CHB-C4A-C3A	4.37	136.14	124.90
11	A8	301	CYC	CMA-C3A-C4A	4.37	131.79	125.06
11	H3	1001	CYC	CHB-C4A-C3A	4.37	136.14	124.90
11	A4	301	CYC	CMA-C3A-C4A	4.37	131.79	125.06
11	j3	1001	CYC	CHB-C4A-C3A	4.37	136.13	124.90
11	L5	201	CYC	CHB-C4A-NA	-4.37	115.80	124.93
11	K8	201	CYC	CMA-C3A-C4A	4.37	131.79	125.06
11	X8	201	CYC	CMA-C3A-C4A	4.37	131.79	125.06
11	c3	1001	CYC	CHB-C4A-C3A	4.37	136.13	124.90
11	P8	201	CYC	CMA-C3A-C4A	4.37	131.79	125.06
11	03	902	CYC	CHB-C4A-C3A	4.36	136.12	124.90
11	Z4	201	CYC	CMA-C3A-C4A	4.36	131.78	125.06
11	O6	201	CYC	C2B-C1B-NB	4.36	113.38	106.99
11	13	902	CYC	CHB-C4A-C3A	4.36	136.12	124.90
11	p3	1001	CYC	CHB-C4A-C3A	4.36	136.12	124.90
11	G4	202	CYC	CMA-C3A-C4A	4.36	131.78	125.06
11	r3	1001	CYC	CHB-C4A-C3A	4.36	136.11	124.90
11	P4	201	CYC	CMA-C3A-C4A	4.36	131.78	125.06
11	V8	201	CYC	CMA-C3A-C4A	4.36	131.77	125.06
11	K4	201	CYC	CMA-C3A-C4A	4.35	131.77	125.06
11	G8	202	CYC	CMA-C3A-C4A	4.35	131.77	125.06
11	O3	1001	CYC	CHB-C4A-C3A	4.35	136.09	124.90
11	M3	201	CYC	CHB-C4A-C3A	4.35	136.09	124.90
11	I4	201	CYC	CMA-C3A-C4A	4.35	131.76	125.06
11	13	902	CYC	C2B-C1B-NB	4.35	113.35	106.99
11	X4	201	CYC	CMA-C3A-C4A	4.35	131.76	125.06
11	M4	202	CYC	CMA-C3A-C4A	4.34	131.75	125.06
11	L1	201	CYC	CHB-C4A-NA	-4.34	115.85	124.93
11	M8	202	CYC	CMA-C3A-C4A	4.34	131.75	125.06
11	r3	1001	CYC	C2B-C1B-NB	4.34	113.35	106.99
11	E8	201	CYC	CMA-C3A-C4A	4.34	131.75	125.06
11	N8	301	CYC	CMA-C3A-C4A	4.34	131.75	125.06
11	V4	201	CYC	CMA-C3A-C4A	4.34	131.75	125.06
11	03	901	CYC	C4D-CHA-C1A	4.34	133.99	128.81
11	T8	201	CYC	CMA-C3A-C4A	4.33	131.74	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	t3	1001	CYC	C2B-C1B-NB	4.33	113.33	106.99
11	J3	201	CYC	C2B-C1B-NB	4.33	113.33	106.99
11	M3	201	CYC	C2B-C1B-NB	4.33	113.33	106.99
11	O1	201	CYC	CHB-C4A-NA	-4.33	115.88	124.93
11	H5	201	CYC	CHB-C4A-NA	-4.33	115.88	124.93
11	x3	1001	CYC	C2B-C1B-NB	4.33	113.32	106.99
11	E4	201	CYC	CMA-C3A-C4A	4.33	131.72	125.06
11	O5	201	CYC	CHB-C4A-NA	-4.32	115.89	124.93
11	l3	1001	CYC	C2B-C1B-NB	4.32	113.32	106.99
11	N4	301	CYC	CMA-C3A-C4A	4.32	131.72	125.06
11	j3	1001	CYC	C2B-C1B-NB	4.32	113.31	106.99
11	N5	301	CYC	CBD-CAD-C3D	-4.32	105.25	112.62
11	S5	201	CYC	CHB-C4A-NA	-4.32	115.89	124.93
11	P1	201	CYC	CBD-CAD-C3D	-4.32	105.25	112.62
11	U5	201	CYC	CHB-C4A-NA	-4.32	115.90	124.93
11	X1	203	CYC	CHB-C4A-NA	-4.32	115.90	124.93
11	U1	201	CYC	CHB-C4A-NA	-4.32	115.90	124.93
11	A1	302	CYC	CBD-CAD-C3D	-4.32	105.25	112.62
11	R5	201	CYC	CBD-CAD-C3D	-4.32	105.25	112.62
11	S1	201	CYC	CHB-C4A-NA	-4.32	115.90	124.93
11	v3	1001	CYC	C2B-C1B-NB	4.32	113.31	106.99
11	H1	201	CYC	CHB-C4A-NA	-4.32	115.90	124.93
11	R1	201	CYC	CBD-CAD-C3D	-4.32	105.26	112.62
11	13	901	CYC	C4D-CHA-C1A	4.31	133.96	128.81
11	W3	1001	CYC	C2B-C1B-NB	4.31	113.30	106.99
11	z3	1001	CYC	C2B-C1B-NB	4.31	113.30	106.99
11	N1	301	CYC	CBD-CAD-C3D	-4.31	105.26	112.62
11	F5	201	CYC	CHB-C4A-NA	-4.31	115.91	124.93
11	X5	203	CYC	CHB-C4A-NA	-4.31	115.91	124.93
11	A5	301	CYC	CBD-CAD-C3D	-4.31	105.26	112.62
11	J1	201	CYC	CHB-C4A-NA	-4.31	115.91	124.93
11	13	903	CYC	C2B-C1B-NB	4.31	113.30	106.99
11	c3	1001	CYC	C2B-C1B-NB	4.31	113.30	106.99
11	Q1	201	CYC	CHB-C4A-NA	-4.31	115.92	124.93
11	A5	302	CYC	CBD-CAD-C3D	-4.31	105.27	112.62
11	Q5	201	CYC	CHB-C4A-NA	-4.31	115.92	124.93
11	I1	201	CYC	CBD-CAD-C3D	-4.31	105.27	112.62
11	T4	201	CYC	CMA-C3A-C4A	4.31	131.70	125.06
11	V5	202	CYC	CHB-C4A-NA	-4.31	115.92	124.93
11	R5	202	CYC	CMA-C3A-C4A	4.31	131.70	125.06
11	P5	201	CYC	CBD-CAD-C3D	-4.31	105.27	112.62
11	X1	202	CYC	CMA-C3A-C4A	4.31	131.70	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	03	902	CYC	C2B-C1B-NB	4.30	113.29	106.99
11	F1	201	CYC	CHB-C4A-NA	-4.30	115.93	124.93
11	G5	202	CYC	CMA-C3A-C4A	4.30	131.69	125.06
11	V1	202	CYC	CHB-C4A-NA	-4.30	115.93	124.93
11	G5	201	CYC	CBD-CAD-C3D	-4.30	105.28	112.62
11	K1	202	CYC	CMA-C3A-C4A	4.30	131.69	125.06
11	M1	201	CYC	CBD-CAD-C3D	-4.30	105.28	112.62
11	U5	202	CYC	CMA-C3A-C4A	4.30	131.69	125.06
11	e3	1001	CYC	C2B-C1B-NB	4.30	113.28	106.99
11	B1	201	CYC	CHB-C4A-NA	-4.30	115.94	124.93
11	C5	202	CYC	CHB-C4A-NA	-4.30	115.94	124.93
11	H3	1001	CYC	C2B-C1B-NB	4.30	113.28	106.99
11	K5	202	CYC	CMA-C3A-C4A	4.30	131.69	125.06
11	M5	201	CYC	CBD-CAD-C3D	-4.30	105.28	112.62
11	G1	202	CYC	CMA-C3A-C4A	4.30	131.68	125.06
11	R1	202	CYC	CMA-C3A-C4A	4.30	131.68	125.06
11	A1	301	CYC	CBD-CAD-C3D	-4.30	105.29	112.62
11	I5	201	CYC	CBD-CAD-C3D	-4.30	105.29	112.62
11	X1	201	CYC	CBD-CAD-C3D	-4.29	105.29	112.62
11	S3	1001	CYC	C2B-C1B-NB	4.29	113.27	106.99
11	n3	1001	CYC	C2B-C1B-NB	4.29	113.27	106.99
11	Z1	201	CYC	CHB-C4A-C3A	4.29	135.94	124.90
11	X5	202	CYC	CMA-C3A-C4A	4.29	131.68	125.06
11	K1	201	CYC	CBD-CAD-C3D	-4.29	105.30	112.62
11	13	904	CYC	C2B-C1B-NB	4.29	113.27	106.99
11	K5	201	CYC	CBD-CAD-C3D	-4.29	105.30	112.62
11	m3	201	CYC	CAB-C3B-C4B	4.29	128.16	121.38
11	C1	202	CYC	CHB-C4A-NA	-4.29	115.96	124.93
11	Z1	201	CYC	CBD-CAD-C3D	-4.29	105.30	112.62
11	K4	201	CYC	C1B-NB-C4B	-4.29	105.21	110.67
11	I1	202	CYC	CMA-C3A-C4A	4.29	131.67	125.06
11	V1	201	CYC	CBD-CAD-C3D	-4.29	105.30	112.62
11	I5	202	CYC	CMA-C3A-C4A	4.29	131.67	125.06
11	V3	201	CYC	C1B-C2B-C3B	-4.29	103.40	107.87
11	K1	201	CYC	CHB-C4A-C3A	4.29	135.93	124.90
11	O3	1001	CYC	C2B-C1B-NB	4.29	113.26	106.99
11	J5	201	CYC	CHB-C4A-NA	-4.29	115.97	124.93
11	I6	201	CYC	C2A-C1A-NA	4.28	116.28	110.05
11	G1	201	CYC	CBD-CAD-C3D	-4.28	105.31	112.62
11	P5	202	CYC	CMA-C3A-C4A	4.28	131.66	125.06
11	T8	201	CYC	C1B-NB-C4B	-4.28	105.22	110.67
11	X5	201	CYC	CBD-CAD-C3D	-4.28	105.31	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	B5	201	CYC	CHB-C4A-NA	-4.28	115.97	124.93
11	V5	201	CYC	CBD-CAD-C3D	-4.28	105.31	112.62
11	Z5	201	CYC	CHB-C4A-C3A	4.28	135.91	124.90
11	U3	1001	CYC	C2B-C1B-NB	4.28	113.25	106.99
11	p3	1001	CYC	C2B-C1B-NB	4.28	113.25	106.99
11	P1	202	CYC	CMA-C3A-C4A	4.28	131.65	125.06
11	K5	201	CYC	CHB-C4A-C3A	4.28	135.90	124.90
11	U1	202	CYC	CMA-C3A-C4A	4.28	131.65	125.06
11	T5	201	CYC	CMA-C3A-C4A	4.28	131.65	125.06
11	I1	201	CYC	CHB-C4A-C3A	4.28	135.90	124.90
11	X1	201	CYC	CHB-C4A-C3A	4.28	135.90	124.90
11	P5	201	CYC	CHB-C4A-C3A	4.27	135.89	124.90
11	A6	301	CYC	C2A-C1A-NA	4.27	116.27	110.05
11	V8	201	CYC	C1B-NB-C4B	-4.27	105.23	110.67
11	T4	201	CYC	C1B-NB-C4B	-4.27	105.23	110.67
11	A1	302	CYC	CHB-C4A-C3A	4.27	135.88	124.90
11	X5	201	CYC	CHB-C4A-C3A	4.27	135.88	124.90
11	R5	201	CYC	CHB-C4A-C3A	4.27	135.88	124.90
11	A1	301	CYC	CHB-C4A-C3A	4.27	135.88	124.90
11	13	901	CYC	CMA-C3A-C4A	4.27	131.63	125.06
11	C5	201	CYC	CMA-C3A-C4A	4.27	131.63	125.06
11	V1	201	CYC	CHB-C4A-C3A	4.27	135.87	124.90
11	E4	201	CYC	C1B-NB-C4B	-4.27	105.24	110.67
11	R1	201	CYC	CHB-C4A-C3A	4.27	135.87	124.90
11	N5	301	CYC	CHB-C4A-C3A	4.27	135.87	124.90
11	C1	201	CYC	CMA-C3A-C4A	4.26	131.63	125.06
11	P1	201	CYC	CHB-C4A-C3A	4.26	135.87	124.90
11	I5	201	CYC	CHB-C4A-C3A	4.26	135.87	124.90
11	03	901	CYC	CMA-C3A-C4A	4.26	131.63	125.06
11	Z5	201	CYC	CBD-CAD-C3D	-4.26	105.34	112.62
11	K2	201	CYC	C2A-C1A-NA	4.26	116.25	110.05
11	M5	202	CYC	CMA-C3A-C4A	4.26	131.63	125.06
11	I2	201	CYC	C2A-C1A-NA	4.26	116.25	110.05
11	N1	301	CYC	CHB-C4A-C3A	4.26	135.85	124.90
11	M5	201	CYC	CHB-C4A-C3A	4.26	135.85	124.90
11	Z1	202	CYC	CMA-C3A-C4A	4.26	131.62	125.06
11	D5	201	CYC	CMA-C3A-C4A	4.26	131.62	125.06
11	M1	202	CYC	CMA-C3A-C4A	4.26	131.62	125.06
11	M1	201	CYC	CHB-C4A-C3A	4.26	135.84	124.90
11	V5	201	CYC	CHB-C4A-C3A	4.26	135.84	124.90
11	A5	301	CYC	CHB-C4A-C3A	4.25	135.84	124.90
11	A2	301	CYC	C2A-C1A-NA	4.25	116.24	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	T1	201	CYC	CMA-C3A-C4A	4.25	131.62	125.06
11	T7	1001	CYC	CMA-C3A-C4A	4.25	131.61	125.06
11	K6	201	CYC	C2A-C1A-NA	4.25	116.24	110.05
11	A5	302	CYC	CHB-C4A-C3A	4.25	135.84	124.90
11	m3	201	CYC	C1B-C2B-C3B	-4.25	103.43	107.87
11	G5	201	CYC	CHB-C4A-C3A	4.25	135.83	124.90
11	X6	201	CYC	C2A-C1A-NA	4.25	116.23	110.05
11	P2	201	CYC	C2A-C1A-NA	4.25	116.23	110.05
11	V6	201	CYC	C2A-C1A-NA	4.25	116.23	110.05
11	R5	201	CYC	CHD-C4C-NC	4.25	130.26	125.20
11	V3	201	CYC	CAB-C3B-C4B	4.25	128.09	121.38
11	T7	1001	CYC	C4D-CHA-C1A	4.25	133.88	128.81
11	D1	201	CYC	CMA-C3A-C4A	4.25	131.61	125.06
11	Y7	1001	CYC	CMA-C3A-C4A	4.25	131.61	125.06
11	X4	201	CYC	C1B-NB-C4B	-4.25	105.26	110.67
11	P8	201	CYC	C1B-NB-C4B	-4.25	105.26	110.67
11	E2	201	CYC	C2A-C1A-NA	4.25	116.23	110.05
11	G1	201	CYC	CHB-C4A-C3A	4.25	135.82	124.90
11	V4	201	CYC	C1B-NB-C4B	-4.25	105.26	110.67
11	E8	201	CYC	C1B-NB-C4B	-4.25	105.26	110.67
11	K8	201	CYC	C1B-NB-C4B	-4.25	105.26	110.67
11	N3	1001	CYC	CHB-C4A-C3A	4.24	135.81	124.90
11	I4	201	CYC	C1B-NB-C4B	-4.24	105.27	110.67
11	Z5	202	CYC	CMA-C3A-C4A	4.24	131.60	125.06
11	D7	1001	CYC	CMA-C3A-C4A	4.24	131.60	125.06
11	M7	1001	CYC	CMA-C3A-C4A	4.24	131.60	125.06
11	Z2	202	CYC	C2A-C1A-NA	4.24	116.22	110.05
11	P4	201	CYC	C1B-NB-C4B	-4.24	105.27	110.67
11	A8	301	CYC	C1B-NB-C4B	-4.24	105.27	110.67
11	I8	201	CYC	C1B-NB-C4B	-4.24	105.27	110.67
11	N4	301	CYC	C1B-NB-C4B	-4.24	105.27	110.67
11	M2	201	CYC	C2A-C1A-NA	4.24	116.22	110.05
11	E6	201	CYC	C2A-C1A-NA	4.24	116.22	110.05
11	M6	201	CYC	C2A-C1A-NA	4.24	116.22	110.05
11	N6	301	CYC	C2A-C1A-NA	4.24	116.22	110.05
11	X2	201	CYC	C2A-C1A-NA	4.24	116.21	110.05
11	W7	1001	CYC	CMA-C3A-C4A	4.24	131.59	125.06
11	o3	1001	CYC	CHB-C4A-C3A	4.24	135.79	124.90
11	X8	201	CYC	C1B-NB-C4B	-4.24	105.28	110.67
11	A4	301	CYC	C1B-NB-C4B	-4.23	105.28	110.67
11	M8	202	CYC	C1B-NB-C4B	-4.23	105.28	110.67
11	P6	201	CYC	C2A-C1A-NA	4.23	116.21	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	C2	201	CYC	C2A-C1A-NA	4.23	116.20	110.05
11	N8	301	CYC	C1B-NB-C4B	-4.23	105.28	110.67
11	y3	1001	CYC	CHB-C4A-C3A	4.23	135.77	124.90
11	V2	201	CYC	C2A-C1A-NA	4.23	116.20	110.05
11	q3	1001	CYC	CHB-C4A-C3A	4.23	135.77	124.90
11	k3	1001	CYC	CHB-C4A-C3A	4.23	135.77	124.90
11	Z6	201	CYC	C2A-C1A-NA	4.23	116.20	110.05
11	Z3	1001	CYC	CHB-C4A-C3A	4.22	135.76	124.90
11	N2	302	CYC	C2A-C1A-NA	4.22	116.19	110.05
11	G4	202	CYC	C1B-NB-C4B	-4.22	105.29	110.67
11	P7	1001	CYC	CMA-C3A-C4A	4.22	131.57	125.06
11	s3	1001	CYC	CHB-C4A-C3A	4.22	135.76	124.90
11	M4	202	CYC	C1B-NB-C4B	-4.22	105.29	110.67
11	X5	201	CYC	CHD-C4C-NC	4.22	130.22	125.20
11	f3	1001	CYC	CHB-C4A-C3A	4.22	135.75	124.90
11	B7	1001	CYC	CMA-C3A-C4A	4.22	131.56	125.06
11	i3	1001	CYC	CHB-C4A-C3A	4.22	135.75	124.90
11	F7	1001	CYC	CMA-C3A-C4A	4.22	131.56	125.06
11	d3	1001	CYC	CHB-C4A-C3A	4.22	135.75	124.90
11	X1	201	CYC	CHD-C4C-NC	4.22	130.22	125.20
11	w3	1001	CYC	CHB-C4A-C3A	4.22	135.75	124.90
11	R1	201	CYC	CHD-C4C-NC	4.22	130.22	125.20
11	A5	301	CYC	CHD-C4C-NC	4.22	130.22	125.20
11	K7	1001	CYC	CMA-C3A-C4A	4.22	131.56	125.06
11	a7	1001	CYC	CMA-C3A-C4A	4.22	131.56	125.06
11	G8	202	CYC	C1B-NB-C4B	-4.21	105.31	110.67
11	G3	1001	CYC	CHB-C4A-C3A	4.21	135.73	124.90
11	K3	1001	CYC	CHB-C4A-C3A	4.21	135.73	124.90
11	b3	1001	CYC	CHB-C4A-C3A	4.21	135.73	124.90
11	u3	1001	CYC	CHB-C4A-C3A	4.21	135.73	124.90
11	I7	1001	CYC	CMA-C3A-C4A	4.21	131.55	125.06
11	A5	302	CYC	CHD-C4C-NC	4.21	130.21	125.20
11	R3	1001	CYC	CHB-C4A-C3A	4.21	135.72	124.90
11	T3	1001	CYC	CHB-C4A-C3A	4.21	135.72	124.90
11	A1	301	CYC	CHD-C4C-NC	4.21	130.21	125.20
11	K7	1001	CYC	C4D-CHA-C1A	4.21	133.83	128.81
11	M7	1001	CYC	C4D-CHA-C1A	4.20	133.83	128.81
11	G5	201	CYC	CHD-C4C-NC	4.20	130.20	125.20
11	Z4	201	CYC	C1B-NB-C4B	-4.20	105.32	110.67
11	P3	1001	CYC	CHB-C4A-C3A	4.20	135.71	124.90
11	N2	301	CYC	C2A-C1A-NA	4.20	116.16	110.05
11	Z1	201	CYC	CHD-C4C-NC	4.20	130.20	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	a7	1001	CYC	C4D-CHA-C1A	4.20	133.83	128.81
11	X3	1001	CYC	CHB-C4A-C3A	4.20	135.70	124.90
11	Y7	1001	CYC	C4D-CHA-C1A	4.20	133.82	128.81
11	P7	1001	CYC	C4D-CHA-C1A	4.20	133.82	128.81
11	I3	1001	CYC	CHB-C4A-C3A	4.20	135.69	124.90
11	Z8	201	CYC	C1B-NB-C4B	-4.20	105.33	110.67
11	C6	201	CYC	C2A-C1A-NA	4.20	116.15	110.05
11	P1	201	CYC	CHD-C4C-NC	4.20	130.19	125.20
11	P3	1001	CYC	CMA-C3A-C4A	4.19	131.52	125.06
11	X3	1001	CYC	CMA-C3A-C4A	4.19	131.52	125.06
11	R3	1001	CYC	CMA-C3A-C4A	4.19	131.52	125.06
11	K1	201	CYC	CHD-C4C-NC	4.19	130.19	125.20
11	Z5	201	CYC	CHD-C4C-NC	4.19	130.19	125.20
11	B7	1001	CYC	C4D-CHA-C1A	4.19	133.81	128.81
11	A1	302	CYC	CHD-C4C-NC	4.19	130.18	125.20
11	03	901	CYC	C1B-CHB-C4A	4.19	138.31	128.08
11	13	901	CYC	C1B-CHB-C4A	4.19	138.31	128.08
11	N5	301	CYC	CHD-C4C-NC	4.19	130.18	125.20
11	R7	1001	CYC	CMA-C3A-C4A	4.19	131.51	125.06
11	P5	201	CYC	CHD-C4C-NC	4.19	130.18	125.20
11	I7	1001	CYC	C4D-CHA-C1A	4.18	133.81	128.81
11	K3	1001	CYC	CMA-C3A-C4A	4.18	131.51	125.06
11	V1	201	CYC	CHD-C4C-NC	4.18	130.18	125.20
11	G3	1001	CYC	CMA-C3A-C4A	4.18	131.51	125.06
11	W7	1001	CYC	C4D-CHA-C1A	4.18	133.81	128.81
11	V5	201	CYC	CHD-C4C-NC	4.18	130.18	125.20
11	N6	302	CYC	C2A-C1A-NA	4.18	116.13	110.05
11	G1	201	CYC	CHD-C4C-NC	4.18	130.17	125.20
11	I3	1001	CYC	CMA-C3A-C4A	4.18	131.50	125.06
11	D7	1001	CYC	C4D-CHA-C1A	4.18	133.80	128.81
11	I1	201	CYC	CHD-C4C-NC	4.18	130.17	125.20
11	Q3	1001	CYC	C2B-C1B-NB	4.17	113.10	106.99
11	f3	1001	CYC	CMA-C3A-C4A	4.17	131.49	125.06
11	A5	301	CYC	C4A-C3A-C2A	-4.17	101.72	106.51
11	w3	1001	CYC	CMA-C3A-C4A	4.17	131.49	125.06
11	R7	1001	CYC	C4D-CHA-C1A	4.17	133.79	128.81
11	s3	1001	CYC	CMA-C3A-C4A	4.17	131.49	125.06
11	i3	1001	CYC	CMA-C3A-C4A	4.17	131.48	125.06
11	Z3	1001	CYC	CMA-C3A-C4A	4.17	131.48	125.06
11	u3	1001	CYC	CMA-C3A-C4A	4.17	131.48	125.06
11	M1	201	CYC	CHD-C4C-NC	4.17	130.16	125.20
11	K5	201	CYC	CHD-C4C-NC	4.16	130.16	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	W7	1001	CYC	C1B-NB-C4B	-4.16	105.37	110.67
11	F7	1001	CYC	C4D-CHA-C1A	4.16	133.78	128.81
11	b3	1001	CYC	CMA-C3A-C4A	4.16	131.47	125.06
11	q3	1001	CYC	CMA-C3A-C4A	4.16	131.47	125.06
11	y3	1001	CYC	CMA-C3A-C4A	4.16	131.47	125.06
11	M7	1001	CYC	C1B-NB-C4B	-4.16	105.37	110.67
11	T3	1001	CYC	CMA-C3A-C4A	4.16	131.46	125.06
11	k3	1001	CYC	CMA-C3A-C4A	4.16	131.46	125.06
11	I5	201	CYC	CHD-C4C-NC	4.15	130.15	125.20
11	d3	1001	CYC	CMA-C3A-C4A	4.15	131.46	125.06
11	N1	301	CYC	CHD-C4C-NC	4.15	130.14	125.20
11	J3	201	CYC	C1B-NB-C4B	-4.15	105.39	110.67
11	A1	301	CYC	C4A-C3A-C2A	-4.15	101.75	106.51
11	G5	201	CYC	C4A-C3A-C2A	-4.14	101.75	106.51
11	13	902	CYC	C1B-NB-C4B	-4.14	105.39	110.67
11	a7	1001	CYC	C1B-NB-C4B	-4.14	105.39	110.67
11	N1	301	CYC	C4A-C3A-C2A	-4.14	101.75	106.51
11	o3	1001	CYC	CMA-C3A-C4A	4.14	131.44	125.06
11	Y7	1001	CYC	C1B-NB-C4B	-4.14	105.40	110.67
11	X1	201	CYC	C4A-C3A-C2A	-4.14	101.76	106.51
11	K5	201	CYC	C4A-C3A-C2A	-4.14	101.76	106.51
11	G1	201	CYC	C4A-C3A-C2A	-4.13	101.76	106.51
11	P1	201	CYC	C4A-C3A-C2A	-4.13	101.76	106.51
11	N3	1001	CYC	CMA-C3A-C4A	4.13	131.43	125.06
11	M5	201	CYC	CHD-C4C-NC	4.13	130.12	125.20
11	l3	1001	CYC	C1B-NB-C4B	-4.13	105.41	110.67
11	j3	1001	CYC	C1B-NB-C4B	-4.13	105.41	110.67
11	P5	201	CYC	C4A-C3A-C2A	-4.13	101.77	106.51
11	v3	1001	CYC	C1B-NB-C4B	-4.13	105.42	110.67
11	I5	201	CYC	C4A-C3A-C2A	-4.13	101.77	106.51
11	N5	301	CYC	C4A-C3A-C2A	-4.13	101.77	106.51
11	V5	201	CYC	C4A-C3A-C2A	-4.13	101.77	106.51
11	g3	1001	CYC	C2B-C1B-NB	4.12	113.03	106.99
11	x3	1001	CYC	C1B-NB-C4B	-4.12	105.42	110.67
11	B7	1001	CYC	C1B-NB-C4B	-4.12	105.42	110.67
11	F7	1001	CYC	C1B-NB-C4B	-4.12	105.42	110.67
11	R7	1001	CYC	C1B-NB-C4B	-4.12	105.42	110.67
11	A5	302	CYC	C4A-C3A-C2A	-4.12	101.78	106.51
11	M5	201	CYC	C4A-C3A-C2A	-4.12	101.78	106.51
11	13	903	CYC	C1B-NB-C4B	-4.12	105.42	110.67
11	H3	1001	CYC	C1B-NB-C4B	-4.12	105.42	110.67
11	I1	201	CYC	C4A-C3A-C2A	-4.12	101.78	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	X5	201	CYC	C4A-C3A-C2A	-4.12	101.78	106.51
11	V1	201	CYC	C4A-C3A-C2A	-4.12	101.78	106.51
11	z3	1001	CYC	C1B-NB-C4B	-4.11	105.43	110.67
11	M1	201	CYC	C4A-C3A-C2A	-4.11	101.78	106.51
11	W3	1001	CYC	C1B-NB-C4B	-4.11	105.43	110.67
11	r3	1001	CYC	C1B-NB-C4B	-4.11	105.43	110.67
11	M3	201	CYC	C1B-NB-C4B	-4.11	105.43	110.67
11	13	904	CYC	C1B-NB-C4B	-4.11	105.43	110.67
11	n3	1001	CYC	C1B-NB-C4B	-4.11	105.43	110.67
11	A1	302	CYC	C4A-C3A-C2A	-4.11	101.79	106.51
11	I7	1001	CYC	C1B-NB-C4B	-4.11	105.44	110.67
11	P7	1001	CYC	C1B-NB-C4B	-4.11	105.44	110.67
11	K7	1001	CYC	C1B-NB-C4B	-4.11	105.44	110.67
11	e3	1001	CYC	C1B-NB-C4B	-4.11	105.44	110.67
11	t3	1001	CYC	C1B-NB-C4B	-4.11	105.44	110.67
11	R1	201	CYC	C4A-C3A-C2A	-4.11	101.79	106.51
11	S3	1001	CYC	C1B-NB-C4B	-4.11	105.44	110.67
11	O3	1001	CYC	C1B-NB-C4B	-4.10	105.45	110.67
11	K1	201	CYC	C4A-C3A-C2A	-4.10	101.80	106.51
11	R5	201	CYC	C4A-C3A-C2A	-4.10	101.80	106.51
11	c3	1001	CYC	C1B-NB-C4B	-4.10	105.45	110.67
11	03	901	CYC	C2C-C1C-NC	4.10	111.81	108.27
11	03	902	CYC	C1B-NB-C4B	-4.10	105.45	110.67
11	M7	1001	CYC	C2B-C1B-NB	4.09	112.98	106.99
11	T7	1001	CYC	C1B-NB-C4B	-4.09	105.46	110.67
11	Z5	201	CYC	C4A-C3A-C2A	-4.09	101.81	106.51
11	U3	1001	CYC	C1B-NB-C4B	-4.09	105.46	110.67
11	D7	1001	CYC	C1B-NB-C4B	-4.09	105.46	110.67
11	D7	1001	CYC	C2B-C1B-NB	4.09	112.97	106.99
11	I7	1001	CYC	C2B-C1B-NB	4.09	112.97	106.99
11	C5	202	CYC	CAD-CBD-CGD	-4.09	102.31	113.76
11	V1	202	CYC	CAD-CBD-CGD	-4.08	102.31	113.76
11	R7	1001	CYC	C2B-C1B-NB	4.08	112.97	106.99
11	B1	201	CYC	CAD-CBD-CGD	-4.08	102.31	113.76
11	Z1	201	CYC	C4A-C3A-C2A	-4.08	101.82	106.51
11	Y7	1001	CYC	C2B-C1B-NB	4.08	112.96	106.99
11	C1	202	CYC	CAD-CBD-CGD	-4.08	102.32	113.76
11	F5	201	CYC	CAD-CBD-CGD	-4.08	102.33	113.76
11	g3	1001	CYC	OC-C1C-C2C	-4.08	122.93	126.17
11	B5	201	CYC	CAD-CBD-CGD	-4.08	102.33	113.76
11	p3	1001	CYC	C1B-NB-C4B	-4.08	105.48	110.67
11	Q1	201	CYC	CAD-CBD-CGD	-4.07	102.34	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	B2	201	CYC	C1B-NB-C4B	-4.07	105.48	110.67
11	V5	202	CYC	CAD-CBD-CGD	-4.07	102.35	113.76
11	K7	1001	CYC	C2B-C1B-NB	4.07	112.95	106.99
11	L5	201	CYC	CAD-CBD-CGD	-4.07	102.35	113.76
11	H5	201	CYC	CAD-CBD-CGD	-4.07	102.35	113.76
11	X5	203	CYC	CAD-CBD-CGD	-4.07	102.35	113.76
11	Q5	201	CYC	CAD-CBD-CGD	-4.07	102.35	113.76
11	L1	201	CYC	CAD-CBD-CGD	-4.07	102.35	113.76
11	F1	201	CYC	CAD-CBD-CGD	-4.07	102.36	113.76
11	P7	1001	CYC	C2B-C1B-NB	4.07	112.94	106.99
11	O1	201	CYC	CAD-CBD-CGD	-4.07	102.36	113.76
11	W7	1001	CYC	C2B-C1B-NB	4.07	112.94	106.99
11	U1	201	CYC	CAD-CBD-CGD	-4.06	102.36	113.76
11	X1	203	CYC	CAD-CBD-CGD	-4.06	102.36	113.76
11	J5	201	CYC	CAD-CBD-CGD	-4.06	102.37	113.76
11	U5	201	CYC	CAD-CBD-CGD	-4.06	102.37	113.76
11	B6	201	CYC	C1B-NB-C4B	-4.06	105.50	110.67
11	J1	201	CYC	CAD-CBD-CGD	-4.06	102.37	113.76
11	H1	201	CYC	CAD-CBD-CGD	-4.06	102.37	113.76
11	J6	201	CYC	C1B-NB-C4B	-4.06	105.50	110.67
11	H2	201	CYC	C1B-NB-C4B	-4.06	105.50	110.67
11	a7	1001	CYC	C2B-C1B-NB	4.06	112.93	106.99
11	O5	201	CYC	CAD-CBD-CGD	-4.06	102.39	113.76
11	13	901	CYC	C2C-C1C-NC	4.06	111.77	108.27
11	S5	201	CYC	CAD-CBD-CGD	-4.05	102.39	113.76
11	T2	201	CYC	C1B-NB-C4B	-4.05	105.51	110.67
11	S1	201	CYC	CAD-CBD-CGD	-4.05	102.40	113.76
11	U6	201	CYC	C1B-NB-C4B	-4.05	105.51	110.67
11	I2	203	CYC	C1B-NB-C4B	-4.05	105.51	110.67
11	H6	201	CYC	C1B-NB-C4B	-4.05	105.51	110.67
11	F7	1001	CYC	C2B-C1B-NB	4.05	112.92	106.99
11	L6	201	CYC	C1B-NB-C4B	-4.05	105.52	110.67
11	W2	201	CYC	C1B-NB-C4B	-4.04	105.52	110.67
11	B7	1001	CYC	C2B-C1B-NB	4.04	112.91	106.99
11	K2	203	CYC	C1B-NB-C4B	-4.04	105.52	110.67
11	F6	201	CYC	C1B-NB-C4B	-4.04	105.53	110.67
11	S2	201	CYC	C1B-NB-C4B	-4.04	105.53	110.67
11	R6	202	CYC	C1B-NB-C4B	-4.03	105.53	110.67
11	Q2	201	CYC	C1B-NB-C4B	-4.03	105.54	110.67
11	Z2	201	CYC	C1B-NB-C4B	-4.03	105.54	110.67
11	X2	203	CYC	C1B-NB-C4B	-4.02	105.55	110.67
11	T7	1001	CYC	C2B-C1B-NB	4.02	112.88	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	W6	201	CYC	C1B-NB-C4B	-4.02	105.55	110.67
11	O6	201	CYC	C1B-NB-C4B	-4.02	105.55	110.67
11	E2	203	CYC	C1B-NB-C4B	-4.01	105.56	110.67
11	Y6	201	CYC	C1B-NB-C4B	-4.01	105.57	110.67
11	D2	201	CYC	C1B-NB-C4B	-3.99	105.58	110.67
11	C6	203	CYC	C1B-NB-C4B	-3.98	105.60	110.67
11	Q6	201	CYC	C1B-NB-C4B	-3.98	105.60	110.67
11	Q3	1001	CYC	OC-C1C-C2C	-3.97	123.01	126.17
11	C6	201	CYC	C2B-C1B-NB	3.96	112.79	106.99
11	R7	1001	CYC	CHB-C4A-C3A	3.96	135.09	124.90
11	A5	302	CYC	C2B-C1B-NB	3.96	112.78	106.99
11	A1	302	CYC	C2B-C1B-NB	3.95	112.78	106.99
11	K7	1001	CYC	CHB-C4A-C3A	3.95	135.06	124.90
11	B7	1001	CYC	CHB-C4A-C3A	3.95	135.06	124.90
11	F7	1001	CYC	CHB-C4A-C3A	3.95	135.06	124.90
11	I7	1001	CYC	CHB-C4A-C3A	3.95	135.06	124.90
11	P7	1001	CYC	CHB-C4A-C3A	3.95	135.05	124.90
11	I6	201	CYC	C2B-C1B-NB	3.95	112.77	106.99
11	C2	201	CYC	C2B-C1B-NB	3.95	112.77	106.99
11	Y7	1001	CYC	CHB-C4A-C3A	3.95	135.05	124.90
11	T7	1001	CYC	CHB-C4A-C3A	3.94	135.04	124.90
11	I2	201	CYC	C2B-C1B-NB	3.94	112.76	106.99
11	W7	1001	CYC	CHB-C4A-C3A	3.94	135.03	124.90
11	M7	1001	CYC	CHB-C4A-C3A	3.94	135.03	124.90
11	a7	1001	CYC	CHB-C4A-C3A	3.94	135.03	124.90
11	13	901	CYC	C4A-C3A-C2A	-3.93	101.99	106.51
11	D7	1001	CYC	CHB-C4A-C3A	3.93	135.01	124.90
11	P6	201	CYC	C2B-C1B-NB	3.93	112.74	106.99
11	Z6	201	CYC	C2B-C1B-NB	3.93	112.73	106.99
11	M5	201	CYC	C2B-C1B-NB	3.93	112.73	106.99
11	M1	201	CYC	C2B-C1B-NB	3.92	112.73	106.99
11	A6	301	CYC	C2B-C1B-NB	3.92	112.72	106.99
11	M6	201	CYC	C2B-C1B-NB	3.92	112.72	106.99
11	K5	201	CYC	C2B-C1B-NB	3.92	112.72	106.99
11	I1	201	CYC	C2B-C1B-NB	3.91	112.72	106.99
11	X5	201	CYC	C2B-C1B-NB	3.91	112.72	106.99
11	Z2	202	CYC	C2B-C1B-NB	3.91	112.72	106.99
11	X1	201	CYC	C2B-C1B-NB	3.91	112.71	106.99
11	E2	201	CYC	C2B-C1B-NB	3.91	112.71	106.99
11	Z5	201	CYC	C2B-C1B-NB	3.91	112.71	106.99
11	P5	201	CYC	C2B-C1B-NB	3.91	112.71	106.99
11	R5	201	CYC	C2B-C1B-NB	3.91	112.71	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	P2	201	CYC	C2B-C1B-NB	3.91	112.70	106.99
11	A1	301	CYC	C2B-C1B-NB	3.90	112.70	106.99
11	R1	201	CYC	C2B-C1B-NB	3.90	112.70	106.99
11	A5	301	CYC	C2B-C1B-NB	3.90	112.70	106.99
11	I5	201	CYC	C2B-C1B-NB	3.90	112.70	106.99
11	K6	201	CYC	C2B-C1B-NB	3.90	112.70	106.99
11	G5	201	CYC	C2B-C1B-NB	3.90	112.70	106.99
11	03	901	CYC	C4A-C3A-C2A	-3.90	102.03	106.51
11	P1	201	CYC	C2B-C1B-NB	3.89	112.69	106.99
11	Z1	201	CYC	C2B-C1B-NB	3.89	112.69	106.99
11	K2	201	CYC	C2B-C1B-NB	3.89	112.69	106.99
11	M2	201	CYC	C2B-C1B-NB	3.89	112.69	106.99
11	G1	201	CYC	C2B-C1B-NB	3.89	112.68	106.99
11	K1	201	CYC	C2B-C1B-NB	3.89	112.68	106.99
11	V2	201	CYC	C2B-C1B-NB	3.89	112.68	106.99
11	A2	301	CYC	C2B-C1B-NB	3.89	112.68	106.99
11	N1	301	CYC	C2B-C1B-NB	3.88	112.67	106.99
11	E6	201	CYC	C2B-C1B-NB	3.88	112.67	106.99
11	V1	201	CYC	C2B-C1B-NB	3.88	112.67	106.99
11	N6	301	CYC	C2B-C1B-NB	3.88	112.67	106.99
11	N2	301	CYC	C2B-C1B-NB	3.88	112.67	106.99
11	N6	302	CYC	C2B-C1B-NB	3.88	112.66	106.99
11	N2	302	CYC	C2B-C1B-NB	3.88	112.66	106.99
11	X6	201	CYC	C2B-C1B-NB	3.87	112.66	106.99
11	X2	201	CYC	C2B-C1B-NB	3.87	112.66	106.99
11	V6	201	CYC	C2B-C1B-NB	3.87	112.66	106.99
11	V5	201	CYC	C2B-C1B-NB	3.87	112.65	106.99
11	N5	301	CYC	C2B-C1B-NB	3.86	112.64	106.99
11	T4	201	CYC	CHB-C4A-C3A	3.86	134.83	124.90
11	13	904	CYC	CMA-C3A-C4A	3.86	131.01	125.06
11	c3	1001	CYC	CMA-C3A-C4A	3.86	131.01	125.06
11	Q3	1001	CYC	C1B-NB-C4B	-3.86	105.76	110.67
11	03	902	CYC	CMA-C3A-C4A	3.86	131.00	125.06
11	13	902	CYC	CMA-C3A-C4A	3.86	131.00	125.06
11	U1	202	CYC	OC-C1C-C2C	-3.85	123.11	126.17
11	l3	1001	CYC	CMA-C3A-C4A	3.85	131.00	125.06
11	U5	202	CYC	OC-C1C-C2C	-3.85	123.11	126.17
11	T5	201	CYC	OC-C1C-C2C	-3.85	123.11	126.17
11	M3	201	CYC	CMA-C3A-C4A	3.85	130.99	125.06
11	X4	201	CYC	CHB-C4A-C3A	3.85	134.79	124.90
11	T8	201	CYC	CHB-C4A-C3A	3.85	134.79	124.90
11	x3	1001	CYC	CMA-C3A-C4A	3.85	130.99	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	A4	301	CYC	CHB-C4A-C3A	3.84	134.78	124.90
11	E4	201	CYC	CHB-C4A-C3A	3.84	134.78	124.90
11	G4	202	CYC	CHB-C4A-C3A	3.84	134.78	124.90
11	j3	1001	CYC	CMA-C3A-C4A	3.84	130.98	125.06
11	A8	301	CYC	CHB-C4A-C3A	3.84	134.77	124.90
11	n3	1001	CYC	CMA-C3A-C4A	3.84	130.97	125.06
11	M8	202	CYC	CHB-C4A-C3A	3.84	134.77	124.90
11	N8	301	CYC	CHB-C4A-C3A	3.84	134.77	124.90
11	X8	201	CYC	CHB-C4A-C3A	3.84	134.76	124.90
11	M4	202	CYC	CHB-C4A-C3A	3.84	134.76	124.90
11	N4	301	CYC	CHB-C4A-C3A	3.83	134.76	124.90
11	O3	1001	CYC	CMA-C3A-C4A	3.83	130.97	125.06
11	p3	1001	CYC	CMA-C3A-C4A	3.83	130.97	125.06
11	D4	201	CYC	C4A-C3A-C2A	-3.83	102.11	106.51
11	Y4	201	CYC	C1B-NB-C4B	-3.83	105.79	110.67
11	V4	201	CYC	CHB-C4A-C3A	3.83	134.76	124.90
11	I8	201	CYC	CHB-C4A-C3A	3.83	134.76	124.90
11	V8	201	CYC	CHB-C4A-C3A	3.83	134.76	124.90
11	E8	201	CYC	CHB-C4A-C3A	3.83	134.75	124.90
11	H3	1001	CYC	CMA-C3A-C4A	3.83	130.96	125.06
11	I4	201	CYC	CHB-C4A-C3A	3.83	134.75	124.90
11	S3	1001	CYC	CMA-C3A-C4A	3.83	130.96	125.06
11	G8	202	CYC	CHB-C4A-C3A	3.83	134.74	124.90
11	G8	201	CYC	C1B-NB-C4B	-3.83	105.80	110.67
11	W3	1001	CYC	CMA-C3A-C4A	3.83	130.96	125.06
11	T1	201	CYC	OC-C1C-C2C	-3.83	123.13	126.17
11	D5	201	CYC	OC-C1C-C2C	-3.83	123.13	126.17
11	r3	1001	CYC	CMA-C3A-C4A	3.83	130.96	125.06
11	P8	201	CYC	CHB-C4A-C3A	3.82	134.74	124.90
11	e3	1001	CYC	CMA-C3A-C4A	3.82	130.95	125.06
11	D8	201	CYC	C1B-NB-C4B	-3.82	105.80	110.67
11	L8	201	CYC	C1B-NB-C4B	-3.82	105.80	110.67
11	M5	202	CYC	OC-C1C-C2C	-3.82	123.13	126.17
11	I4	203	CYC	C4A-C3A-C2A	-3.82	102.12	106.51
11	P4	201	CYC	CHB-C4A-C3A	3.82	134.72	124.90
11	M4	201	CYC	C4A-C3A-C2A	-3.82	102.12	106.51
11	13	903	CYC	CMA-C3A-C4A	3.82	130.94	125.06
11	K8	201	CYC	CHB-C4A-C3A	3.82	134.72	124.90
11	t3	1001	CYC	CMA-C3A-C4A	3.82	130.94	125.06
11	Z4	201	CYC	CHB-C4A-C3A	3.82	134.72	124.90
11	S4	201	CYC	C4A-C3A-C2A	-3.82	102.13	106.51
11	v3	1001	CYC	CMA-C3A-C4A	3.82	130.94	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Z8	201	CYC	CHB-C4A-C3A	3.82	134.71	124.90
11	G1	202	CYC	OC-C1C-C2C	-3.82	123.14	126.17
11	Z1	202	CYC	OC-C1C-C2C	-3.82	123.14	126.17
11	U3	1001	CYC	CMA-C3A-C4A	3.82	130.94	125.06
11	z3	1001	CYC	CMA-C3A-C4A	3.82	130.94	125.06
11	Z5	202	CYC	OC-C1C-C2C	-3.81	123.14	126.17
11	L4	201	CYC	C1B-NB-C4B	-3.81	105.81	110.67
11	G8	201	CYC	C4A-C3A-C2A	-3.81	102.13	106.51
11	U8	201	CYC	C1B-NB-C4B	-3.81	105.81	110.67
11	S8	201	CYC	C4A-C3A-C2A	-3.81	102.13	106.51
11	P8	203	CYC	C1B-NB-C4B	-3.81	105.82	110.67
11	K1	202	CYC	OC-C1C-C2C	-3.81	123.14	126.17
11	P1	202	CYC	OC-C1C-C2C	-3.81	123.14	126.17
11	U4	201	CYC	C4A-C3A-C2A	-3.81	102.14	106.51
11	M1	202	CYC	OC-C1C-C2C	-3.81	123.15	126.17
11	I8	203	CYC	C4A-C3A-C2A	-3.81	102.14	106.51
11	W8	201	CYC	C4A-C3A-C2A	-3.81	102.14	106.51
11	P5	202	CYC	OC-C1C-C2C	-3.81	123.15	126.17
11	K4	201	CYC	CHB-C4A-C3A	3.80	134.68	124.90
11	G5	202	CYC	OC-C1C-C2C	-3.80	123.15	126.17
11	J3	201	CYC	CMA-C3A-C4A	3.80	130.92	125.06
11	G4	201	CYC	C1B-NB-C4B	-3.80	105.83	110.67
11	M8	201	CYC	C4A-C3A-C2A	-3.80	102.14	106.51
11	K5	202	CYC	OC-C1C-C2C	-3.80	123.15	126.17
11	W8	201	CYC	C1B-NB-C4B	-3.80	105.83	110.67
11	D4	201	CYC	C1B-NB-C4B	-3.80	105.83	110.67
11	W4	201	CYC	C4A-C3A-C2A	-3.80	102.15	106.51
11	P8	203	CYC	C4A-C3A-C2A	-3.80	102.15	106.51
11	D1	201	CYC	OC-C1C-C2C	-3.80	123.16	126.17
11	D8	201	CYC	C4A-C3A-C2A	-3.79	102.15	106.51
11	Y8	201	CYC	C4A-C3A-C2A	-3.79	102.15	106.51
11	g3	1001	CYC	C1B-NB-C4B	-3.79	105.84	110.67
11	M4	201	CYC	C1B-NB-C4B	-3.79	105.84	110.67
11	I1	202	CYC	OC-C1C-C2C	-3.79	123.16	126.17
11	Y8	201	CYC	C1B-NB-C4B	-3.79	105.84	110.67
11	C5	201	CYC	OC-C1C-C2C	-3.79	123.16	126.17
11	M8	201	CYC	C1B-NB-C4B	-3.79	105.85	110.67
11	O8	201	CYC	C1B-NB-C4B	-3.79	105.85	110.67
11	E4	203	CYC	C4A-C3A-C2A	-3.78	102.16	106.51
11	L4	201	CYC	C4A-C3A-C2A	-3.78	102.16	106.51
11	Y4	201	CYC	C4A-C3A-C2A	-3.78	102.16	106.51
11	U8	201	CYC	C4A-C3A-C2A	-3.78	102.16	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	I4	203	CYC	C1B-NB-C4B	-3.78	105.85	110.67
11	S4	201	CYC	C1B-NB-C4B	-3.78	105.85	110.67
11	13	904	CYC	CHA-C1A-NA	-3.78	123.58	128.83
11	W4	201	CYC	C1B-NB-C4B	-3.78	105.85	110.67
11	S8	201	CYC	C1B-NB-C4B	-3.78	105.85	110.67
11	E8	203	CYC	C1B-NB-C4B	-3.78	105.85	110.67
11	I8	203	CYC	C1B-NB-C4B	-3.78	105.85	110.67
11	G4	201	CYC	C4A-C3A-C2A	-3.78	102.17	106.51
11	P4	203	CYC	C4A-C3A-C2A	-3.78	102.17	106.51
11	I5	202	CYC	OC-C1C-C2C	-3.78	123.17	126.17
11	L8	201	CYC	C4A-C3A-C2A	-3.78	102.17	106.51
11	U4	201	CYC	C1B-NB-C4B	-3.78	105.86	110.67
11	P4	203	CYC	C1B-NB-C4B	-3.78	105.86	110.67
11	E8	203	CYC	C4A-C3A-C2A	-3.77	102.18	106.51
11	R1	202	CYC	OC-C1C-C2C	-3.77	123.18	126.17
11	O4	201	CYC	C1B-NB-C4B	-3.76	105.88	110.67
11	C1	201	CYC	OC-C1C-C2C	-3.76	123.18	126.17
11	O4	201	CYC	C4A-C3A-C2A	-3.76	102.19	106.51
11	t3	1001	CYC	CHA-C1A-NA	-3.76	123.61	128.83
11	X1	202	CYC	OC-C1C-C2C	-3.76	123.18	126.17
11	R5	202	CYC	OC-C1C-C2C	-3.76	123.18	126.17
11	O8	201	CYC	C4A-C3A-C2A	-3.76	102.19	106.51
11	U3	1001	CYC	CHA-C1A-NA	-3.76	123.61	128.83
11	p3	1001	CYC	CHA-C1A-NA	-3.76	123.62	128.83
11	Q3	1001	CYC	C1B-C2B-C3B	-3.76	103.95	107.87
11	U4	201	CYC	CBC-CAC-C3C	-3.76	105.10	113.47
11	W3	1001	CYC	CHA-C1A-NA	-3.75	123.62	128.83
11	l3	1001	CYC	CHA-C1A-NA	-3.75	123.62	128.83
11	03	902	CYC	CHA-C1A-NA	-3.75	123.62	128.83
11	e3	1001	CYC	CHA-C1A-NA	-3.75	123.63	128.83
11	r3	1001	CYC	CHA-C1A-NA	-3.75	123.63	128.83
11	X5	202	CYC	OC-C1C-C2C	-3.74	123.20	126.17
11	U8	201	CYC	CBC-CAC-C3C	-3.74	105.13	113.47
11	J3	201	CYC	CHA-C1A-NA	-3.74	123.64	128.83
11	13	902	CYC	CHA-C1A-NA	-3.74	123.64	128.83
11	H3	1001	CYC	CHA-C1A-NA	-3.74	123.64	128.83
11	13	902	CYC	C1B-C2B-C3B	-3.74	103.97	107.87
11	x3	1001	CYC	CHA-C1A-NA	-3.74	123.64	128.83
11	E4	203	CYC	C1B-NB-C4B	-3.74	105.91	110.67
11	O4	201	CYC	CBC-CAC-C3C	-3.74	105.15	113.47
11	Y4	201	CYC	CBC-CAC-C3C	-3.74	105.15	113.47
11	M3	201	CYC	CHA-C1A-NA	-3.73	123.65	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	n3	1001	CYC	CHA-C1A-NA	-3.73	123.65	128.83
11	P8	203	CYC	CBC-CAC-C3C	-3.73	105.15	113.47
11	t3	1001	CYC	C1B-C2B-C3B	-3.73	103.97	107.87
11	S3	1001	CYC	CHA-C1A-NA	-3.73	123.65	128.83
11	L4	201	CYC	CBC-CAC-C3C	-3.73	105.16	113.47
11	S4	201	CYC	CBC-CAC-C3C	-3.73	105.16	113.47
11	13	903	CYC	CHA-C1A-NA	-3.73	123.65	128.83
11	c3	1001	CYC	CHA-C1A-NA	-3.73	123.65	128.83
11	L8	201	CYC	CBC-CAC-C3C	-3.73	105.16	113.47
11	b3	1001	CYC	OC-C1C-C2C	-3.73	123.21	126.17
11	f3	1001	CYC	OC-C1C-C2C	-3.73	123.21	126.17
11	D4	201	CYC	CBC-CAC-C3C	-3.73	105.17	113.47
11	Y8	201	CYC	CBC-CAC-C3C	-3.73	105.17	113.47
11	u3	1001	CYC	OC-C1C-C2C	-3.73	123.21	126.17
11	S8	201	CYC	CBC-CAC-C3C	-3.73	105.17	113.47
11	O8	201	CYC	CBC-CAC-C3C	-3.72	105.17	113.47
11	M8	201	CYC	CBC-CAC-C3C	-3.72	105.18	113.47
11	M5	201	CYC	CAC-C3C-C2C	-3.72	104.96	114.26
11	W4	201	CYC	CBC-CAC-C3C	-3.72	105.18	113.47
11	X1	201	CYC	CAC-C3C-C2C	-3.72	104.96	114.26
11	D8	201	CYC	CBC-CAC-C3C	-3.72	105.19	113.47
11	W8	201	CYC	CBC-CAC-C3C	-3.72	105.19	113.47
11	I8	203	CYC	CBC-CAC-C3C	-3.72	105.19	113.47
11	X3	1001	CYC	OC-C1C-C2C	-3.72	123.22	126.17
11	I4	203	CYC	CBC-CAC-C3C	-3.72	105.19	113.47
11	P4	203	CYC	CBC-CAC-C3C	-3.72	105.19	113.47
11	v3	1001	CYC	CHA-C1A-NA	-3.72	123.67	128.83
11	I5	201	CYC	CAC-C3C-C2C	-3.72	104.98	114.26
11	E8	203	CYC	CBC-CAC-C3C	-3.72	105.19	113.47
11	M1	201	CYC	CAC-C3C-C2C	-3.71	104.98	114.26
11	X5	201	CYC	CAC-C3C-C2C	-3.71	104.98	114.26
11	G4	201	CYC	CBC-CAC-C3C	-3.71	105.20	113.47
11	z3	1001	CYC	CHA-C1A-NA	-3.71	123.68	128.83
11	O3	1001	CYC	CHA-C1A-NA	-3.71	123.68	128.83
11	j3	1001	CYC	CHA-C1A-NA	-3.71	123.68	128.83
11	M3	201	CYC	C1B-C2B-C3B	-3.71	104.00	107.87
11	E4	203	CYC	CBC-CAC-C3C	-3.71	105.20	113.47
11	r3	1001	CYC	C1B-C2B-C3B	-3.71	104.00	107.87
11	p3	1001	CYC	C1B-C2B-C3B	-3.71	104.00	107.87
11	l3	1001	CYC	C1B-C2B-C3B	-3.71	104.00	107.87
11	R5	201	CYC	CAC-C3C-C2C	-3.71	105.00	114.26
11	G8	201	CYC	CBC-CAC-C3C	-3.71	105.21	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	R1	201	CYC	CAC-C3C-C2C	-3.71	105.00	114.26
11	V1	201	CYC	CAC-C3C-C2C	-3.71	105.00	114.26
11	Z5	201	CYC	CAC-C3C-C2C	-3.70	105.01	114.26
11	M4	201	CYC	CBC-CAC-C3C	-3.70	105.22	113.47
11	V5	201	CYC	CAC-C3C-C2C	-3.70	105.01	114.26
11	P5	201	CYC	CAC-C3C-C2C	-3.70	105.01	114.26
11	G5	201	CYC	CAC-C3C-C2C	-3.70	105.01	114.26
11	K1	201	CYC	CAC-C3C-C2C	-3.70	105.01	114.26
11	g3	1001	CYC	C1B-C2B-C3B	-3.70	104.01	107.87
11	A1	301	CYC	CAC-C3C-C2C	-3.70	105.02	114.26
11	I1	201	CYC	CAC-C3C-C2C	-3.70	105.02	114.26
11	P1	201	CYC	CAC-C3C-C2C	-3.70	105.02	114.26
11	G1	201	CYC	CAC-C3C-C2C	-3.70	105.02	114.26
11	A5	301	CYC	CAC-C3C-C2C	-3.70	105.02	114.26
11	A1	302	CYC	CAC-C3C-C2C	-3.70	105.02	114.26
11	j3	1001	CYC	C1B-C2B-C3B	-3.70	104.02	107.87
11	N5	301	CYC	CAC-C3C-C2C	-3.69	105.03	114.26
11	Z1	201	CYC	CAC-C3C-C2C	-3.69	105.03	114.26
11	K5	201	CYC	CAC-C3C-C2C	-3.69	105.03	114.26
11	g3	1001	CYC	CHB-C4A-C3A	3.69	134.39	124.90
11	N1	301	CYC	CAC-C3C-C2C	-3.69	105.04	114.26
11	S3	1001	CYC	C1B-C2B-C3B	-3.69	104.02	107.87
11	03	902	CYC	C1B-C2B-C3B	-3.69	104.02	107.87
11	A4	301	CYC	CAD-CBD-CGD	-3.69	103.42	113.76
11	13	903	CYC	C1B-C2B-C3B	-3.69	104.03	107.87
11	w3	1001	CYC	C1B-C2B-C3B	-3.69	104.03	107.87
11	n3	1001	CYC	C1B-C2B-C3B	-3.68	104.03	107.87
11	I3	1001	CYC	OC-C1C-C2C	-3.68	123.25	126.17
11	A5	302	CYC	CAC-C3C-C2C	-3.68	105.07	114.26
11	O3	1001	CYC	C1B-C2B-C3B	-3.68	104.03	107.87
11	Z3	1001	CYC	C1B-C2B-C3B	-3.68	104.03	107.87
11	x3	1001	CYC	C1B-C2B-C3B	-3.68	104.03	107.87
11	H3	1001	CYC	C1B-C2B-C3B	-3.68	104.03	107.87
11	U3	1001	CYC	C1B-C2B-C3B	-3.68	104.03	107.87
11	13	904	CYC	C1B-C2B-C3B	-3.67	104.04	107.87
11	X3	1001	CYC	C1B-C2B-C3B	-3.67	104.04	107.87
11	Q3	1001	CYC	CHB-C4A-C3A	3.67	134.34	124.90
11	d3	1001	CYC	OC-C1C-C2C	-3.67	123.25	126.17
11	w3	1001	CYC	OC-C1C-C2C	-3.67	123.25	126.17
11	I3	1001	CYC	C1B-C2B-C3B	-3.67	104.04	107.87
11	c3	1001	CYC	C1B-C2B-C3B	-3.67	104.04	107.87
11	M4	202	CYC	CAD-CBD-CGD	-3.67	103.47	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	N4	301	CYC	CAD-CBD-CGD	-3.67	103.47	113.76
11	q3	1001	CYC	C1B-C2B-C3B	-3.67	104.04	107.87
11	v3	1001	CYC	C1B-C2B-C3B	-3.67	104.05	107.87
11	Z3	1001	CYC	OC-C1C-C2C	-3.66	123.26	126.17
11	y3	1001	CYC	OC-C1C-C2C	-3.66	123.26	126.17
11	A8	301	CYC	CAD-CBD-CGD	-3.66	103.49	113.76
11	N8	301	CYC	CAD-CBD-CGD	-3.66	103.49	113.76
11	T8	201	CYC	CAD-CBD-CGD	-3.66	103.49	113.76
11	K3	1001	CYC	OC-C1C-C2C	-3.66	123.26	126.17
11	G3	1001	CYC	C1B-C2B-C3B	-3.66	104.05	107.87
11	J3	201	CYC	C1B-C2B-C3B	-3.66	104.05	107.87
11	k3	1001	CYC	C1B-C2B-C3B	-3.66	104.05	107.87
11	z3	1001	CYC	C1B-C2B-C3B	-3.66	104.05	107.87
11	P4	201	CYC	CAD-CBD-CGD	-3.66	103.50	113.76
11	N3	1001	CYC	OC-C1C-C2C	-3.66	123.27	126.17
11	M8	202	CYC	CAD-CBD-CGD	-3.66	103.51	113.76
11	V4	201	CYC	CAD-CBD-CGD	-3.66	103.51	113.76
11	V8	201	CYC	CAD-CBD-CGD	-3.66	103.51	113.76
11	e3	1001	CYC	C1B-C2B-C3B	-3.65	104.06	107.87
11	R3	1001	CYC	OC-C1C-C2C	-3.65	123.27	126.17
11	o3	1001	CYC	OC-C1C-C2C	-3.65	123.27	126.17
11	q3	1001	CYC	OC-C1C-C2C	-3.65	123.27	126.17
11	P3	1001	CYC	C1B-C2B-C3B	-3.65	104.06	107.87
11	f3	1001	CYC	C1B-C2B-C3B	-3.65	104.06	107.87
11	E8	201	CYC	CAD-CBD-CGD	-3.65	103.53	113.76
11	T3	1001	CYC	C1B-C2B-C3B	-3.65	104.06	107.87
11	P8	201	CYC	CAD-CBD-CGD	-3.65	103.53	113.76
11	E4	201	CYC	CAD-CBD-CGD	-3.65	103.53	113.76
11	K8	201	CYC	CAD-CBD-CGD	-3.65	103.53	113.76
11	W3	1001	CYC	C1B-C2B-C3B	-3.65	104.06	107.87
11	I4	201	CYC	CAD-CBD-CGD	-3.65	103.54	113.76
11	G4	202	CYC	CAD-CBD-CGD	-3.65	103.54	113.76
11	T4	201	CYC	CAD-CBD-CGD	-3.65	103.54	113.76
11	R3	1001	CYC	C1B-C2B-C3B	-3.65	104.07	107.87
11	I8	201	CYC	CAD-CBD-CGD	-3.65	103.54	113.76
11	K4	201	CYC	CAD-CBD-CGD	-3.64	103.54	113.76
11	i3	1001	CYC	OC-C1C-C2C	-3.64	123.28	126.17
11	G8	202	CYC	CAD-CBD-CGD	-3.64	103.54	113.76
11	Z4	201	CYC	CAD-CBD-CGD	-3.64	103.56	113.76
11	N3	1001	CYC	C1B-C2B-C3B	-3.64	104.07	107.87
11	b3	1001	CYC	C1B-C2B-C3B	-3.64	104.07	107.87
11	s3	1001	CYC	C1B-C2B-C3B	-3.64	104.07	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	G3	1001	CYC	OC-C1C-C2C	-3.64	123.28	126.17
11	X4	201	CYC	CAD-CBD-CGD	-3.64	103.56	113.76
11	d3	1001	CYC	C1B-C2B-C3B	-3.64	104.08	107.87
11	k3	1001	CYC	OC-C1C-C2C	-3.64	123.28	126.17
11	O7	1001	CYC	CBD-CAD-C3D	-3.63	106.42	112.62
11	X8	201	CYC	CAD-CBD-CGD	-3.63	103.57	113.76
11	Z8	201	CYC	CAD-CBD-CGD	-3.63	103.57	113.76
11	o3	1001	CYC	C1B-C2B-C3B	-3.63	104.08	107.87
11	y3	1001	CYC	C1B-C2B-C3B	-3.63	104.08	107.87
11	i3	1001	CYC	C1B-C2B-C3B	-3.63	104.08	107.87
11	s3	1001	CYC	OC-C1C-C2C	-3.63	123.29	126.17
11	u3	1001	CYC	C1B-C2B-C3B	-3.63	104.09	107.87
11	E7	1001	CYC	CBD-CAD-C3D	-3.62	106.44	112.62
11	V5	201	CYC	OB-C4B-C3B	-3.62	124.12	128.04
11	H7	1001	CYC	CHB-C4A-C3A	3.61	134.19	124.90
11	Z7	1001	CYC	CBD-CAD-C3D	-3.61	106.45	112.62
11	L7	1001	CYC	CHB-C4A-C3A	3.61	134.19	124.90
11	H7	1001	CYC	CBD-CAD-C3D	-3.61	106.46	112.62
11	V7	1001	CYC	CBD-CAD-C3D	-3.61	106.46	112.62
11	K3	1001	CYC	C1B-C2B-C3B	-3.61	104.11	107.87
11	G5	201	CYC	OB-C4B-C3B	-3.61	124.12	128.04
11	C7	1001	CYC	CBD-CAD-C3D	-3.61	106.46	112.62
11	Q7	1001	CYC	CBD-CAD-C3D	-3.61	106.46	112.62
11	A7	1001	CYC	CBD-CAD-C3D	-3.61	106.46	112.62
11	J7	1001	CYC	CBD-CAD-C3D	-3.61	106.46	112.62
11	T3	1001	CYC	OC-C1C-C2C	-3.61	123.31	126.17
11	L7	1001	CYC	CBD-CAD-C3D	-3.61	106.47	112.62
11	V1	201	CYC	OB-C4B-C3B	-3.61	124.13	128.04
11	P3	1001	CYC	OC-C1C-C2C	-3.60	123.31	126.17
11	J6	201	CYC	OC-C1C-C2C	-3.60	123.31	126.17
11	O7	1001	CYC	CHB-C4A-C3A	3.60	134.16	124.90
11	13	901	CYC	CHB-C1B-C2B	-3.60	119.81	126.95
11	Q7	1001	CYC	CHB-C4A-C3A	3.60	134.15	124.90
11	X7	1001	CYC	CBD-CAD-C3D	-3.60	106.48	112.62
11	S7	1001	CYC	CBD-CAD-C3D	-3.60	106.48	112.62
11	C7	1001	CYC	CHB-C4A-C3A	3.59	134.14	124.90
11	A7	1001	CYC	CHB-C4A-C3A	3.59	134.14	124.90
11	V7	1001	CYC	CHB-C4A-C3A	3.59	134.14	124.90
11	03	901	CYC	CHB-C1B-C2B	-3.59	119.83	126.95
11	X7	1001	CYC	CHB-C4A-C3A	3.59	134.13	124.90
11	Q2	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
11	Z7	1001	CYC	CHB-C4A-C3A	3.59	134.12	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	S7	1001	CYC	CHB-C4A-C3A	3.58	134.11	124.90
11	J7	1001	CYC	CHB-C4A-C3A	3.58	134.10	124.90
11	Y6	201	CYC	OC-C1C-C2C	-3.58	123.33	126.17
11	K7	1001	CYC	CBC-CAC-C3C	-3.57	105.51	113.47
11	E7	1001	CYC	CHB-C4A-C3A	3.57	134.09	124.90
11	M1	201	CYC	OB-C4B-C3B	-3.57	124.16	128.04
11	P1	201	CYC	OB-C4B-C3B	-3.57	124.17	128.04
11	O6	201	CYC	OC-C1C-C2C	-3.57	123.33	126.17
11	Z1	201	CYC	OB-C4B-C3B	-3.57	124.17	128.04
11	I2	203	CYC	OC-C1C-C2C	-3.57	123.34	126.17
11	X1	201	CYC	OB-C4B-C3B	-3.57	124.17	128.04
11	N5	301	CYC	OB-C4B-C3B	-3.56	124.17	128.04
11	R1	201	CYC	OB-C4B-C3B	-3.56	124.18	128.04
11	A5	302	CYC	OB-C4B-C3B	-3.56	124.18	128.04
11	M5	201	CYC	OB-C4B-C3B	-3.56	124.18	128.04
11	a7	1001	CYC	CBC-CAC-C3C	-3.56	105.54	113.47
11	Q6	201	CYC	OC-C1C-C2C	-3.56	123.34	126.17
11	A1	302	CYC	OB-C4B-C3B	-3.56	124.18	128.04
11	R5	201	CYC	OB-C4B-C3B	-3.56	124.18	128.04
11	H3	1001	CYC	OC-C1C-C2C	-3.56	123.34	126.17
11	Q3	1001	CYC	C2C-C1C-NC	3.56	111.34	108.27
11	Z5	201	CYC	OB-C4B-C3B	-3.55	124.18	128.04
11	G1	201	CYC	OB-C4B-C3B	-3.55	124.18	128.04
11	F7	1001	CYC	CBC-CAC-C3C	-3.55	105.56	113.47
11	B7	1001	CYC	CBC-CAC-C3C	-3.55	105.56	113.47
11	P7	1001	CYC	CBC-CAC-C3C	-3.55	105.56	113.47
11	Q3	1001	CYC	CMB-C2B-C1B	3.55	128.60	124.17
11	P5	201	CYC	OB-C4B-C3B	-3.55	124.19	128.04
11	E2	203	CYC	OC-C1C-C2C	-3.55	123.35	126.17
11	I7	1001	CYC	CBC-CAC-C3C	-3.54	105.58	113.47
11	M3	201	CYC	OC-C1C-C2C	-3.54	123.36	126.17
11	D7	1001	CYC	CBC-CAC-C3C	-3.54	105.58	113.47
11	U3	1001	CYC	OC-C1C-C2C	-3.54	123.36	126.17
11	N1	301	CYC	OB-C4B-C3B	-3.54	124.20	128.04
11	C6	203	CYC	OC-C1C-C2C	-3.54	123.36	126.17
11	L7	1001	CYC	C2B-C1B-NB	3.54	112.17	106.99
11	f3	1001	CYC	C2C-C1C-NC	3.53	111.32	108.27
11	M7	1001	CYC	C2C-C1C-NC	-3.53	105.23	108.27
11	W7	1001	CYC	CBC-CAC-C3C	-3.53	105.60	113.47
11	K3	1001	CYC	C2C-C1C-NC	3.53	111.32	108.27
11	M7	1001	CYC	CBC-CAC-C3C	-3.53	105.60	113.47
11	K1	201	CYC	OB-C4B-C3B	-3.53	124.21	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	K5	201	CYC	OB-C4B-C3B	-3.53	124.21	128.04
11	I1	201	CYC	OB-C4B-C3B	-3.53	124.21	128.04
11	H2	201	CYC	OC-C1C-C2C	-3.53	123.37	126.17
11	H6	201	CYC	OC-C1C-C2C	-3.53	123.37	126.17
11	R7	1001	CYC	CBC-CAC-C3C	-3.53	105.61	113.47
11	U6	201	CYC	OC-C1C-C2C	-3.53	123.37	126.17
11	N6	302	CYC	C4A-C3A-C2A	-3.53	102.46	106.51
11	Y7	1001	CYC	CBC-CAC-C3C	-3.53	105.61	113.47
11	13	904	CYC	OC-C1C-C2C	-3.53	123.37	126.17
11	b3	1001	CYC	C2C-C1C-NC	3.53	111.31	108.27
11	D7	1001	CYC	C2C-C1C-NC	-3.53	105.23	108.27
11	K2	203	CYC	OC-C1C-C2C	-3.53	123.37	126.17
11	d3	1001	CYC	C2C-C1C-NC	3.53	111.31	108.27
11	g3	1001	CYC	C2C-C1C-NC	3.53	111.31	108.27
11	W7	1001	CYC	C2C-C1C-NC	-3.53	105.23	108.27
11	T7	1001	CYC	CBC-CAC-C3C	-3.52	105.62	113.47
11	T2	201	CYC	OC-C1C-C2C	-3.52	123.37	126.17
11	X5	201	CYC	OB-C4B-C3B	-3.52	124.22	128.04
11	y3	1001	CYC	C2C-C1C-NC	3.52	111.31	108.27
11	X2	203	CYC	OC-C1C-C2C	-3.52	123.37	126.17
11	13	903	CYC	OC-C1C-C2C	-3.52	123.37	126.17
11	L6	201	CYC	OC-C1C-C2C	-3.52	123.37	126.17
11	A1	301	CYC	OB-C4B-C3B	-3.52	124.22	128.04
11	N3	1001	CYC	C2C-C1C-NC	3.52	111.31	108.27
11	w3	1001	CYC	C2C-C1C-NC	3.52	111.31	108.27
11	W2	201	CYC	OC-C1C-C2C	-3.52	123.38	126.17
11	A7	1001	CYC	C2B-C1B-NB	3.52	112.14	106.99
11	R6	202	CYC	OC-C1C-C2C	-3.52	123.38	126.17
11	Z2	201	CYC	OC-C1C-C2C	-3.52	123.38	126.17
11	13	902	CYC	OC-C1C-C2C	-3.52	123.38	126.17
11	X3	1001	CYC	C2C-C1C-NC	3.51	111.30	108.27
11	C7	1001	CYC	C2B-C1B-NB	3.51	112.13	106.99
11	O3	1001	CYC	OC-C1C-C2C	-3.51	123.38	126.17
11	S3	1001	CYC	OC-C1C-C2C	-3.51	123.38	126.17
11	B6	201	CYC	OC-C1C-C2C	-3.51	123.38	126.17
11	F6	201	CYC	OC-C1C-C2C	-3.51	123.38	126.17
11	u3	1001	CYC	C2C-C1C-NC	3.51	111.30	108.27
11	13	901	CYC	C1B-C2B-C3B	-3.51	104.21	107.87
11	03	902	CYC	OC-C1C-C2C	-3.51	123.38	126.17
11	V7	1001	CYC	C2B-C1B-NB	3.51	112.12	106.99
11	D4	201	CYC	OB-C4B-NB	-3.51	116.92	125.08
11	E6	201	CYC	C4A-C3A-C2A	-3.51	102.48	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Y4	201	CYC	OB-C4B-NB	-3.51	116.93	125.08
11	S7	1001	CYC	C2B-C1B-NB	3.51	112.12	106.99
11	g3	1001	CYC	CMB-C2B-C1B	3.51	128.54	124.17
11	L8	201	CYC	OB-C4B-NB	-3.51	116.93	125.08
11	N2	302	CYC	C4A-C3A-C2A	-3.50	102.48	106.51
11	Z7	1001	CYC	C2B-C1B-NB	3.50	112.12	106.99
11	P6	201	CYC	C4A-C3A-C2A	-3.50	102.48	106.51
11	o3	1001	CYC	C2C-C1C-NC	3.50	111.29	108.27
11	W8	201	CYC	OB-C4B-NB	-3.50	116.94	125.08
11	R3	1001	CYC	C2C-C1C-NC	3.50	111.29	108.27
11	A5	301	CYC	OB-C4B-C3B	-3.50	124.24	128.04
11	O8	201	CYC	OB-C4B-NB	-3.50	116.94	125.08
11	v3	1001	CYC	OC-C1C-C2C	-3.50	123.39	126.17
11	z3	1001	CYC	OC-C1C-C2C	-3.50	123.39	126.17
11	O7	1001	CYC	C2B-C1B-NB	3.50	112.11	106.99
11	S4	201	CYC	OB-C4B-NB	-3.50	116.94	125.08
11	E7	1001	CYC	C2B-C1B-NB	3.50	112.11	106.99
11	Q7	1001	CYC	C2B-C1B-NB	3.50	112.11	106.99
11	j3	1001	CYC	OC-C1C-C2C	-3.50	123.39	126.17
11	S8	201	CYC	OB-C4B-NB	-3.50	116.95	125.08
11	K7	1001	CYC	C2C-C1C-NC	-3.50	105.26	108.27
11	I5	201	CYC	OB-C4B-C3B	-3.49	124.25	128.04
11	I4	203	CYC	OB-C4B-NB	-3.49	116.95	125.08
11	P8	203	CYC	OB-C4B-NB	-3.49	116.95	125.08
11	m3	201	CYC	C4A-C3A-C2A	-3.49	102.50	106.51
11	e3	1001	CYC	OC-C1C-C2C	-3.49	123.39	126.17
11	L4	201	CYC	OB-C4B-NB	-3.49	116.96	125.08
11	U8	201	CYC	OB-C4B-NB	-3.49	116.96	125.08
11	A2	301	CYC	C4A-C3A-C2A	-3.49	102.50	106.51
11	O4	201	CYC	OB-C4B-NB	-3.49	116.96	125.08
11	D8	201	CYC	OB-C4B-NB	-3.49	116.96	125.08
11	I3	1001	CYC	C2C-C1C-NC	3.49	111.28	108.27
11	G3	1001	CYC	C2C-C1C-NC	3.49	111.28	108.27
11	W4	201	CYC	OB-C4B-NB	-3.49	116.97	125.08
11	G8	201	CYC	OB-C4B-NB	-3.49	116.97	125.08
11	B2	201	CYC	OC-C1C-C2C	-3.49	123.40	126.17
11	J7	1001	CYC	C2B-C1B-NB	3.49	112.10	106.99
11	P2	201	CYC	C4A-C3A-C2A	-3.49	102.50	106.51
11	D2	201	CYC	OC-C1C-C2C	-3.49	123.40	126.17
11	t3	1001	CYC	OC-C1C-C2C	-3.49	123.40	126.17
11	F7	1001	CYC	C2C-C1C-NC	-3.49	105.27	108.27
11	I8	203	CYC	OB-C4B-NB	-3.49	116.97	125.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	P4	203	CYC	OB-C4B-NB	-3.49	116.97	125.08
11	x3	1001	CYC	OC-C1C-C2C	-3.49	123.40	126.17
11	s3	1001	CYC	C2C-C1C-NC	3.48	111.28	108.27
11	I2	201	CYC	C4A-C3A-C2A	-3.48	102.51	106.51
11	G4	201	CYC	OB-C4B-NB	-3.48	116.98	125.08
11	X7	1001	CYC	C2B-C1B-NB	3.48	112.09	106.99
11	P5	201	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
11	U4	201	CYC	OB-C4B-NB	-3.48	116.99	125.08
11	03	901	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
11	P3	1001	CYC	C2C-C1C-NC	3.48	111.27	108.27
11	q3	1001	CYC	C2C-C1C-NC	3.48	111.27	108.27
11	M4	201	CYC	OB-C4B-NB	-3.48	116.99	125.08
11	A6	301	CYC	C4A-C3A-C2A	-3.48	102.51	106.51
11	T3	1001	CYC	C2C-C1C-NC	3.48	111.27	108.27
11	Y7	1001	CYC	C2C-C1C-NC	-3.48	105.27	108.27
11	p3	1001	CYC	OC-C1C-C2C	-3.48	123.41	126.17
11	E8	203	CYC	OB-C4B-NB	-3.48	116.99	125.08
11	Y8	201	CYC	OB-C4B-NB	-3.48	116.99	125.08
11	V6	201	CYC	C4A-C3A-C2A	-3.48	102.52	106.51
11	W6	201	CYC	OC-C1C-C2C	-3.48	123.41	126.17
11	E2	201	CYC	C4A-C3A-C2A	-3.48	102.52	106.51
11	V3	201	CYC	C4A-C3A-C2A	-3.48	102.52	106.51
11	P7	1001	CYC	C2C-C1C-NC	-3.48	105.28	108.27
11	R7	1001	CYC	C2C-C1C-NC	-3.48	105.28	108.27
11	S2	201	CYC	OC-C1C-C2C	-3.48	123.41	126.17
11	T7	1001	CYC	C2C-C1C-NC	-3.48	105.28	108.27
11	l3	1001	CYC	OC-C1C-C2C	-3.47	123.41	126.17
11	H7	1001	CYC	C2B-C1B-NB	3.47	112.07	106.99
11	M5	201	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
11	M8	201	CYC	OB-C4B-NB	-3.47	117.01	125.08
11	I7	1001	CYC	C2C-C1C-NC	-3.47	105.28	108.27
11	Z6	201	CYC	C4A-C3A-C2A	-3.47	102.53	106.51
11	K2	201	CYC	C4A-C3A-C2A	-3.47	102.53	106.51
11	M1	201	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
11	Z3	1001	CYC	C2C-C1C-NC	3.46	111.26	108.27
11	Z2	202	CYC	C4A-C3A-C2A	-3.46	102.53	106.51
11	a7	1001	CYC	C2C-C1C-NC	-3.46	105.29	108.27
11	I1	201	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
11	I6	201	CYC	C4A-C3A-C2A	-3.46	102.53	106.51
11	P1	201	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
11	K6	201	CYC	C4A-C3A-C2A	-3.46	102.54	106.51
11	J3	201	CYC	OC-C1C-C2C	-3.46	123.42	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	r3	1001	CYC	OC-C1C-C2C	-3.46	123.42	126.17
11	n3	1001	CYC	OC-C1C-C2C	-3.46	123.42	126.17
11	k3	1001	CYC	C2C-C1C-NC	3.46	111.25	108.27
11	V2	201	CYC	C4A-C3A-C2A	-3.45	102.54	106.51
11	B7	1001	CYC	C2C-C1C-NC	-3.45	105.30	108.27
11	N6	301	CYC	C4A-C3A-C2A	-3.45	102.54	106.51
11	E4	203	CYC	OB-C4B-NB	-3.45	117.06	125.08
11	X2	201	CYC	C4A-C3A-C2A	-3.45	102.55	106.51
11	W7	1001	CYC	OC-C1C-NC	3.44	129.11	124.94
11	C2	201	CYC	C4A-C3A-C2A	-3.44	102.55	106.51
11	C6	201	CYC	C4A-C3A-C2A	-3.44	102.55	106.51
11	I5	201	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
11	i3	1001	CYC	C2C-C1C-NC	3.44	111.24	108.27
11	A1	302	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
11	I3	1001	CYC	C4A-C3A-C2A	-3.44	102.56	106.51
11	N2	301	CYC	C4A-C3A-C2A	-3.44	102.56	106.51
11	Q3	1001	CYC	C4A-C3A-C2A	-3.44	102.56	106.51
11	M7	1001	CYC	OC-C1C-NC	3.44	129.11	124.94
11	A5	301	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
11	W3	1001	CYC	OC-C1C-C2C	-3.44	123.44	126.17
11	X5	201	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
11	M2	201	CYC	C4A-C3A-C2A	-3.43	102.56	106.51
11	X6	201	CYC	C4A-C3A-C2A	-3.43	102.56	106.51
11	A5	302	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
11	G5	201	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
11	P7	1001	CYC	OC-C1C-NC	3.43	129.10	124.94
11	g3	1001	CYC	C4A-C3A-C2A	-3.43	102.57	106.51
11	X1	201	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
11	c3	1001	CYC	OC-C1C-C2C	-3.43	123.45	126.17
11	P3	1001	CYC	C4A-C3A-C2A	-3.43	102.58	106.51
11	A1	301	CYC	C1B-C2B-C3B	-3.42	104.30	107.87
11	T7	1001	CYC	OC-C1C-NC	3.42	129.08	124.94
11	G1	201	CYC	C1B-C2B-C3B	-3.42	104.30	107.87
11	Z5	201	CYC	C1B-C2B-C3B	-3.42	104.31	107.87
11	M6	201	CYC	C4A-C3A-C2A	-3.42	102.59	106.51
11	R7	1001	CYC	OC-C1C-NC	3.41	129.08	124.94
11	X3	1001	CYC	C4A-C3A-C2A	-3.41	102.59	106.51
11	i3	1001	CYC	C4A-C3A-C2A	-3.41	102.59	106.51
11	K7	1001	CYC	OC-C1C-NC	3.41	129.07	124.94
11	G5	202	CYC	C3A-C4A-NA	3.41	117.81	110.53
11	D7	1001	CYC	OC-C1C-NC	3.41	129.07	124.94
11	G3	1001	CYC	C4A-C3A-C2A	-3.41	102.59	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	K1	201	CYC	C1B-C2B-C3B	-3.41	104.31	107.87
11	K5	202	CYC	C3A-C4A-NA	3.41	117.80	110.53
11	w3	1001	CYC	C4A-C3A-C2A	-3.41	102.60	106.51
11	K1	202	CYC	C3A-C4A-NA	3.41	117.80	110.53
11	X1	202	CYC	C3A-C4A-NA	3.40	117.80	110.53
11	d3	1001	CYC	C4A-C3A-C2A	-3.40	102.60	106.51
11	k3	1001	CYC	C4A-C3A-C2A	-3.40	102.60	106.51
11	K3	1001	CYC	C4A-C3A-C2A	-3.40	102.60	106.51
11	R1	201	CYC	C1B-C2B-C3B	-3.40	104.32	107.87
11	K5	201	CYC	C1B-C2B-C3B	-3.40	104.32	107.87
11	s3	1001	CYC	C4A-C3A-C2A	-3.40	102.61	106.51
11	G1	202	CYC	C3A-C4A-NA	3.40	117.78	110.53
11	O3	1001	CYC	C4A-C3A-C2A	-3.40	102.61	106.51
11	u3	1001	CYC	C4A-C3A-C2A	-3.40	102.61	106.51
11	y3	1001	CYC	C4A-C3A-C2A	-3.40	102.61	106.51
11	Z1	201	CYC	C1B-C2B-C3B	-3.39	104.33	107.87
11	R5	202	CYC	C3A-C4A-NA	3.39	117.77	110.53
11	L7	1001	CYC	C1A-C2A-C3A	-3.39	103.03	106.78
11	M4	202	CYC	CMB-C2B-C1B	3.39	128.40	124.17
11	f3	1001	CYC	C4A-C3A-C2A	-3.39	102.61	106.51
11	C5	201	CYC	C3A-C4A-NA	3.39	117.77	110.53
11	R3	1001	CYC	C4A-C3A-C2A	-3.39	102.61	106.51
11	I7	1001	CYC	OC-C1C-NC	3.39	129.05	124.94
11	R1	202	CYC	C3A-C4A-NA	3.39	117.76	110.53
11	U5	202	CYC	C3A-C4A-NA	3.39	117.76	110.53
11	T5	201	CYC	C3A-C4A-NA	3.39	117.76	110.53
11	M3	201	CYC	C4A-C3A-C2A	-3.39	102.62	106.51
11	T3	1001	CYC	C4A-C3A-C2A	-3.39	102.62	106.51
11	U1	202	CYC	C3A-C4A-NA	3.39	117.76	110.53
11	l3	1001	CYC	C4A-C3A-C2A	-3.39	102.62	106.51
11	C1	201	CYC	C3A-C4A-NA	3.38	117.75	110.53
11	I1	202	CYC	C3A-C4A-NA	3.38	117.75	110.53
11	P5	202	CYC	C3A-C4A-NA	3.38	117.75	110.53
11	X5	202	CYC	C3A-C4A-NA	3.38	117.75	110.53
11	F7	1001	CYC	OC-C1C-NC	3.38	129.04	124.94
11	m3	201	CYC	C2C-C1C-NC	3.38	111.19	108.27
11	P1	202	CYC	C3A-C4A-NA	3.38	117.75	110.53
11	M2	201	CYC	C1A-C2A-C3A	-3.38	103.04	106.78
11	Y7	1001	CYC	OC-C1C-NC	3.38	129.04	124.94
11	b3	1001	CYC	C4A-C3A-C2A	-3.38	102.63	106.51
11	p3	1001	CYC	C4A-C3A-C2A	-3.38	102.63	106.51
11	V1	201	CYC	C1B-C2B-C3B	-3.38	104.34	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	T1	201	CYC	C3A-C4A-NA	3.38	117.74	110.53
11	03	902	CYC	C4A-C3A-C2A	-3.38	102.63	106.51
11	I5	202	CYC	C3A-C4A-NA	3.38	117.74	110.53
11	13	903	CYC	C4A-C3A-C2A	-3.38	102.63	106.51
11	e3	1001	CYC	C4A-C3A-C2A	-3.38	102.63	106.51
11	K4	201	CYC	CMB-C2B-C1B	3.38	128.38	124.17
11	q3	1001	CYC	C4A-C3A-C2A	-3.38	102.63	106.51
11	D1	201	CYC	C3A-C4A-NA	3.38	117.73	110.53
11	I6	201	CYC	C1A-C2A-C3A	-3.38	103.05	106.78
11	a7	1001	CYC	OC-C1C-NC	3.37	129.03	124.94
11	M5	202	CYC	C3A-C4A-NA	3.37	117.73	110.53
11	G4	202	CYC	CMB-C2B-C1B	3.37	128.38	124.17
11	Z4	201	CYC	CMB-C2B-C1B	3.37	128.38	124.17
11	j3	1001	CYC	C4A-C3A-C2A	-3.37	102.63	106.51
11	B7	1001	CYC	OC-C1C-NC	3.37	129.03	124.94
11	M6	201	CYC	C1A-C2A-C3A	-3.37	103.05	106.78
11	R5	201	CYC	C1B-C2B-C3B	-3.37	104.35	107.87
11	13	902	CYC	C4A-C3A-C2A	-3.37	102.64	106.51
11	H3	1001	CYC	C4A-C3A-C2A	-3.37	102.64	106.51
11	Z7	1001	CYC	C1A-C2A-C3A	-3.37	103.05	106.78
11	T4	201	CYC	CMB-C2B-C1B	3.37	128.38	124.17
11	A5	302	CYC	CMB-C2B-C1B	3.37	128.38	124.17
11	P5	201	CYC	CMB-C2B-C1B	3.37	128.38	124.17
11	Z1	202	CYC	C3A-C4A-NA	3.37	117.72	110.53
11	Z5	202	CYC	C3A-C4A-NA	3.37	117.72	110.53
11	M1	202	CYC	C3A-C4A-NA	3.37	117.72	110.53
11	c3	1001	CYC	C4A-C3A-C2A	-3.37	102.64	106.51
11	A6	301	CYC	C1A-C2A-C3A	-3.37	103.06	106.78
11	t3	1001	CYC	C4A-C3A-C2A	-3.37	102.64	106.51
11	A1	302	CYC	CMB-C2B-C1B	3.37	128.37	124.17
11	X6	201	CYC	C1A-C2A-C3A	-3.37	103.06	106.78
11	Z3	1001	CYC	C4A-C3A-C2A	-3.37	102.64	106.51
11	D5	201	CYC	C3A-C4A-NA	3.36	117.71	110.53
11	V6	201	CYC	C1A-C2A-C3A	-3.36	103.06	106.78
11	Q5	201	CYC	C2B-C1B-NB	3.36	111.91	106.99
11	V3	201	CYC	C2C-C1C-NC	3.36	111.17	108.27
11	I8	201	CYC	CMB-C2B-C1B	3.36	128.36	124.17
11	M8	202	CYC	CMB-C2B-C1B	3.36	128.36	124.17
11	r3	1001	CYC	C4A-C3A-C2A	-3.36	102.65	106.51
11	T8	201	CYC	CMB-C2B-C1B	3.36	128.36	124.17
11	x3	1001	CYC	C4A-C3A-C2A	-3.36	102.65	106.51
11	N1	301	CYC	C1B-C2B-C3B	-3.36	104.37	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	V5	202	CYC	C2B-C1B-NB	3.36	111.90	106.99
11	F5	201	CYC	C2B-C1B-NB	3.36	111.90	106.99
11	N3	1001	CYC	C4A-C3A-C2A	-3.35	102.66	106.51
11	Q7	1001	CYC	C1A-C2A-C3A	-3.35	103.07	106.78
11	G8	202	CYC	CMB-C2B-C1B	3.35	128.35	124.17
11	o3	1001	CYC	C4A-C3A-C2A	-3.35	102.66	106.51
11	A2	301	CYC	C1A-C2A-C3A	-3.35	103.07	106.78
11	13	904	CYC	C4A-C3A-C2A	-3.35	102.66	106.51
11	Z5	201	CYC	CMB-C2B-C1B	3.35	128.35	124.17
11	K2	201	CYC	C1A-C2A-C3A	-3.35	103.08	106.78
11	V2	201	CYC	C1A-C2A-C3A	-3.35	103.08	106.78
11	J3	201	CYC	C4A-C3A-C2A	-3.35	102.66	106.51
11	F1	201	CYC	C2B-C1B-NB	3.35	111.89	106.99
11	X7	1001	CYC	C1A-C2A-C3A	-3.35	103.08	106.78
11	Z8	201	CYC	CMB-C2B-C1B	3.35	128.35	124.17
11	X2	201	CYC	C1A-C2A-C3A	-3.35	103.08	106.78
11	K6	201	CYC	C1A-C2A-C3A	-3.35	103.08	106.78
11	n3	1001	CYC	C4A-C3A-C2A	-3.35	102.67	106.51
11	V1	202	CYC	C2B-C1B-NB	3.35	111.89	106.99
11	M1	201	CYC	CMB-C2B-C1B	3.35	128.34	124.17
11	A5	301	CYC	CMB-C2B-C1B	3.35	128.34	124.17
11	V5	201	CYC	C1B-C2B-C3B	-3.35	104.38	107.87
11	M5	201	CYC	CMB-C2B-C1B	3.34	128.34	124.17
11	I2	201	CYC	C1A-C2A-C3A	-3.34	103.08	106.78
11	P1	201	CYC	CMB-C2B-C1B	3.34	128.34	124.17
11	Z2	202	CYC	C1A-C2A-C3A	-3.34	103.08	106.78
11	H7	1001	CYC	C1A-C2A-C3A	-3.34	103.08	106.78
11	X1	203	CYC	C2B-C1B-NB	3.34	111.88	106.99
11	A1	301	CYC	CMB-C2B-C1B	3.34	128.34	124.17
11	E2	201	CYC	C1A-C2A-C3A	-3.34	103.09	106.78
11	N5	301	CYC	C1B-C2B-C3B	-3.34	104.39	107.87
11	C1	202	CYC	C2B-C1B-NB	3.34	111.87	106.99
11	A8	301	CYC	CMB-C2B-C1B	3.34	128.33	124.17
11	P2	201	CYC	C1A-C2A-C3A	-3.34	103.09	106.78
11	E7	1001	CYC	C1A-C2A-C3A	-3.33	103.09	106.78
11	Z1	201	CYC	CMB-C2B-C1B	3.33	128.33	124.17
11	K5	201	CYC	CMB-C2B-C1B	3.33	128.33	124.17
11	K8	201	CYC	CMB-C2B-C1B	3.33	128.33	124.17
11	z3	1001	CYC	C4A-C3A-C2A	-3.33	102.68	106.51
11	N8	301	CYC	CMB-C2B-C1B	3.33	128.32	124.17
11	J7	1001	CYC	C1A-C2A-C3A	-3.33	103.10	106.78
11	Q1	201	CYC	C2B-C1B-NB	3.33	111.86	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	C2	201	CYC	C1A-C2A-C3A	-3.33	103.10	106.78
11	J1	201	CYC	C2B-C1B-NB	3.33	111.86	106.99
11	R6	202	CYC	CAC-C3C-C2C	-3.33	105.94	114.26
11	R1	201	CYC	CMB-C2B-C1B	3.33	128.32	124.17
11	L1	201	CYC	C2B-C1B-NB	3.33	111.86	106.99
11	S2	201	CYC	CAC-C3C-C2C	-3.33	105.95	114.26
11	A5	302	CYC	C1B-NB-C4B	-3.33	106.43	110.67
11	V7	1001	CYC	C1A-C2A-C3A	-3.33	103.10	106.78
11	A4	301	CYC	CMB-C2B-C1B	3.33	128.32	124.17
11	E8	201	CYC	CMB-C2B-C1B	3.33	128.32	124.17
11	F6	201	CYC	CAC-C3C-C2C	-3.33	105.95	114.26
11	V4	201	CYC	CMB-C2B-C1B	3.32	128.32	124.17
11	L5	201	CYC	C2B-C1B-NB	3.32	111.85	106.99
11	P8	201	CYC	CMB-C2B-C1B	3.32	128.32	124.17
11	A1	302	CYC	C1B-NB-C4B	-3.32	106.44	110.67
11	S3	1001	CYC	C4A-C3A-C2A	-3.32	102.69	106.51
11	J5	201	CYC	C2B-C1B-NB	3.32	111.85	106.99
11	I5	201	CYC	CMB-C2B-C1B	3.32	128.32	124.17
11	V8	201	CYC	CMB-C2B-C1B	3.32	128.32	124.17
11	N6	301	CYC	C1A-C2A-C3A	-3.32	103.11	106.78
11	A7	1001	CYC	C1A-C2A-C3A	-3.32	103.11	106.78
11	I2	203	CYC	CAC-C3C-C2C	-3.32	105.96	114.26
11	Z6	201	CYC	C1A-C2A-C3A	-3.32	103.11	106.78
11	K1	201	CYC	CMB-C2B-C1B	3.32	128.31	124.17
11	J6	201	CYC	CAC-C3C-C2C	-3.32	105.96	114.26
11	N1	301	CYC	CMB-C2B-C1B	3.32	128.31	124.17
11	V1	201	CYC	CMB-C2B-C1B	3.32	128.31	124.17
11	I4	201	CYC	CMB-C2B-C1B	3.32	128.31	124.17
11	Q2	201	CYC	CAC-C3C-C2C	-3.32	105.96	114.26
11	v3	1001	CYC	C4A-C3A-C2A	-3.32	102.70	106.51
11	E2	203	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
11	X8	201	CYC	CMB-C2B-C1B	3.32	128.31	124.17
11	U6	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
11	B6	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
11	R5	201	CYC	CMB-C2B-C1B	3.32	128.31	124.17
11	E6	201	CYC	C1A-C2A-C3A	-3.32	103.11	106.78
11	O5	201	CYC	C2B-C1B-NB	3.32	111.84	106.99
11	X5	203	CYC	C2B-C1B-NB	3.32	111.84	106.99
11	Z2	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
11	I1	201	CYC	CMB-C2B-C1B	3.31	128.31	124.17
11	X4	201	CYC	CMB-C2B-C1B	3.31	128.31	124.17
11	K2	203	CYC	CAC-C3C-C2C	-3.31	105.98	114.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	L6	201	CYC	CAC-C3C-C2C	-3.31	105.98	114.26
11	Q6	201	CYC	CAC-C3C-C2C	-3.31	105.98	114.26
11	R5	201	CYC	C1B-NB-C4B	-3.31	106.45	110.67
11	G1	201	CYC	CMB-C2B-C1B	3.31	128.30	124.17
11	X1	201	CYC	CMB-C2B-C1B	3.31	128.30	124.17
11	P4	201	CYC	CMB-C2B-C1B	3.31	128.30	124.17
11	V5	201	CYC	CMB-C2B-C1B	3.31	128.30	124.17
11	H1	201	CYC	C2B-C1B-NB	3.31	111.84	106.99
11	W3	1001	CYC	C4A-C3A-C2A	-3.31	102.70	106.51
11	B2	201	CYC	CAC-C3C-C2C	-3.31	105.98	114.26
11	N4	301	CYC	CMB-C2B-C1B	3.31	128.30	124.17
11	N5	301	CYC	CMB-C2B-C1B	3.31	128.30	124.17
11	S7	1001	CYC	C1A-C2A-C3A	-3.31	103.12	106.78
11	E4	201	CYC	CMB-C2B-C1B	3.31	128.30	124.17
11	S1	201	CYC	C2B-C1B-NB	3.31	111.83	106.99
11	C6	201	CYC	C1A-C2A-C3A	-3.31	103.12	106.78
11	W2	201	CYC	CAC-C3C-C2C	-3.31	106.00	114.26
11	O1	201	CYC	C2B-C1B-NB	3.31	111.83	106.99
11	U3	1001	CYC	C4A-C3A-C2A	-3.31	102.71	106.51
11	U1	201	CYC	C2B-C1B-NB	3.30	111.83	106.99
11	H5	201	CYC	C2B-C1B-NB	3.30	111.83	106.99
11	P6	201	CYC	C1A-C2A-C3A	-3.30	103.13	106.78
11	O7	1001	CYC	C1A-C2A-C3A	-3.30	103.13	106.78
11	N2	302	CYC	C1A-C2A-C3A	-3.30	103.13	106.78
11	X2	203	CYC	CAC-C3C-C2C	-3.30	106.01	114.26
11	X5	201	CYC	CMB-C2B-C1B	3.30	128.29	124.17
11	W6	201	CYC	CAC-C3C-C2C	-3.30	106.01	114.26
11	G5	201	CYC	CMB-C2B-C1B	3.30	128.29	124.17
11	Y6	201	CYC	CAC-C3C-C2C	-3.30	106.01	114.26
11	U5	201	CYC	C2B-C1B-NB	3.30	111.82	106.99
11	H2	201	CYC	CAC-C3C-C2C	-3.30	106.01	114.26
11	D2	201	CYC	CAC-C3C-C2C	-3.30	106.02	114.26
11	N2	301	CYC	C1A-C2A-C3A	-3.30	103.13	106.78
11	B5	201	CYC	C2B-C1B-NB	3.30	111.81	106.99
11	H6	201	CYC	CAC-C3C-C2C	-3.30	106.02	114.26
11	R1	201	CYC	C1B-NB-C4B	-3.30	106.47	110.67
11	C5	202	CYC	C2B-C1B-NB	3.30	111.81	106.99
11	W6	201	CYC	C2A-C1A-NA	3.30	114.84	110.05
11	S5	201	CYC	C2B-C1B-NB	3.30	111.81	106.99
11	B1	201	CYC	C2B-C1B-NB	3.29	111.81	106.99
11	T2	201	CYC	CAC-C3C-C2C	-3.29	106.03	114.26
11	C7	1001	CYC	C1A-C2A-C3A	-3.29	103.14	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	C6	203	CYC	CAC-C3C-C2C	-3.29	106.03	114.26
11	O6	201	CYC	CAC-C3C-C2C	-3.28	106.06	114.26
11	03	901	CYC	CHA-C1A-NA	-3.28	124.28	128.83
11	G5	201	CYC	C1B-NB-C4B	-3.27	106.50	110.67
11	V5	201	CYC	C1B-NB-C4B	-3.27	106.50	110.67
11	M5	201	CYC	C1B-NB-C4B	-3.27	106.50	110.67
11	W2	201	CYC	C2A-C1A-NA	3.27	114.80	110.05
11	K5	201	CYC	C1B-NB-C4B	-3.27	106.51	110.67
11	M1	201	CYC	C1B-NB-C4B	-3.26	106.52	110.67
11	Z1	201	CYC	C1B-NB-C4B	-3.26	106.52	110.67
11	N6	302	CYC	C1A-C2A-C3A	-3.26	103.17	106.78
11	V1	201	CYC	C1B-NB-C4B	-3.26	106.52	110.67
11	X1	201	CYC	C1B-NB-C4B	-3.26	106.52	110.67
11	13	901	CYC	CHA-C1A-NA	-3.25	124.31	128.83
11	A1	301	CYC	C1B-NB-C4B	-3.25	106.53	110.67
11	G1	201	CYC	C1B-NB-C4B	-3.25	106.53	110.67
11	C6	203	CYC	C2A-C1A-NA	3.25	114.78	110.05
11	A5	301	CYC	C1B-NB-C4B	-3.25	106.53	110.67
11	B2	201	CYC	C2A-C1A-NA	3.25	114.77	110.05
11	K1	201	CYC	C1B-NB-C4B	-3.25	106.53	110.67
11	N1	301	CYC	C1B-NB-C4B	-3.25	106.53	110.67
11	K2	203	CYC	C2A-C1A-NA	3.25	114.77	110.05
11	I1	201	CYC	C1B-NB-C4B	-3.24	106.54	110.67
11	L6	201	CYC	C2A-C1A-NA	3.24	114.77	110.05
11	D2	201	CYC	C2A-C1A-NA	3.24	114.77	110.05
11	S2	201	CYC	C2A-C1A-NA	3.24	114.77	110.05
11	F6	201	CYC	C2A-C1A-NA	3.24	114.77	110.05
11	X5	201	CYC	C1B-NB-C4B	-3.24	106.54	110.67
11	T2	201	CYC	C2A-C1A-NA	3.24	114.76	110.05
11	Z5	201	CYC	C1B-NB-C4B	-3.24	106.55	110.67
11	W6	201	CYC	C1A-C2A-C3A	-3.24	103.20	106.78
11	H6	201	CYC	C2A-C1A-NA	3.24	114.76	110.05
11	N5	301	CYC	C1B-NB-C4B	-3.24	106.55	110.67
11	M8	201	CYC	CMA-C3A-C4A	3.24	130.05	125.06
11	U4	201	CYC	CMA-C3A-C4A	3.24	130.05	125.06
11	Y6	201	CYC	C2A-C1A-NA	3.24	114.75	110.05
11	M4	201	CYC	CMA-C3A-C4A	3.23	130.04	125.06
11	B6	201	CYC	C2A-C1A-NA	3.23	114.75	110.05
11	R6	202	CYC	C2A-C1A-NA	3.23	114.75	110.05
11	E2	203	CYC	C2A-C1A-NA	3.23	114.74	110.05
11	J6	201	CYC	C2A-C1A-NA	3.23	114.74	110.05
11	Q6	201	CYC	C2A-C1A-NA	3.22	114.74	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	L4	201	CYC	CMA-C3A-C4A	3.22	130.03	125.06
11	U8	201	CYC	CMA-C3A-C4A	3.22	130.03	125.06
11	B2	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
11	X2	203	CYC	C2A-C1A-NA	3.22	114.74	110.05
11	G8	201	CYC	CMA-C3A-C4A	3.22	130.03	125.06
11	Q2	201	CYC	C2A-C1A-NA	3.22	114.73	110.05
11	E2	203	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
11	P1	201	CYC	C1B-NB-C4B	-3.22	106.57	110.67
11	H2	201	CYC	C2A-C1A-NA	3.22	114.73	110.05
11	Y4	201	CYC	CMA-C3A-C4A	3.21	130.01	125.06
11	X6	201	CYC	OB-C4B-C3B	-3.21	124.55	128.04
11	Y8	201	CYC	CMA-C3A-C4A	3.21	130.01	125.06
11	L6	201	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
11	I6	201	CYC	C1B-NB-C4B	-3.21	106.58	110.67
11	I2	203	CYC	C2A-C1A-NA	3.21	114.72	110.05
11	O6	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
11	L8	201	CYC	CMA-C3A-C4A	3.21	130.01	125.06
11	I5	201	CYC	C1B-NB-C4B	-3.21	106.58	110.67
11	S4	201	CYC	CMA-C3A-C4A	3.21	130.00	125.06
11	W2	201	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
11	D4	201	CYC	CMA-C3A-C4A	3.21	130.00	125.06
11	B6	201	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
11	C6	203	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
11	R6	202	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
11	W8	201	CYC	CMA-C3A-C4A	3.20	130.00	125.06
11	W4	201	CYC	CMA-C3A-C4A	3.20	130.00	125.06
11	S8	201	CYC	CMA-C3A-C4A	3.20	130.00	125.06
11	I8	203	CYC	CMA-C3A-C4A	3.20	130.00	125.06
11	G4	201	CYC	CMA-C3A-C4A	3.20	130.00	125.06
11	P6	201	CYC	CMB-C2B-C1B	3.20	128.16	124.17
11	F6	201	CYC	C1A-C2A-C3A	-3.20	103.24	106.78
11	P8	203	CYC	CMA-C3A-C4A	3.20	129.99	125.06
11	P8	201	CYC	C1A-C2A-C3A	-3.20	103.24	106.78
11	O8	201	CYC	CMA-C3A-C4A	3.20	129.99	125.06
11	T2	201	CYC	C1A-C2A-C3A	-3.20	103.24	106.78
11	P5	201	CYC	C1B-NB-C4B	-3.20	106.60	110.67
11	S2	201	CYC	O1D-CGD-CBD	3.20	133.35	123.08
11	Z2	201	CYC	C2A-C1A-NA	3.20	114.70	110.05
11	D8	201	CYC	CMA-C3A-C4A	3.20	129.99	125.06
11	C6	201	CYC	C1B-NB-C4B	-3.19	106.60	110.67
11	Z6	201	CYC	CMB-C2B-C1B	3.19	128.16	124.17
11	Y4	201	CYC	C1B-C2B-C3B	-3.19	104.54	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	B6	201	CYC	O1D-CGD-CBD	3.19	133.34	123.08
11	S2	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
11	R6	202	CYC	O1D-CGD-CBD	3.19	133.34	123.08
11	M5	202	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
11	O4	201	CYC	CMA-C3A-C4A	3.19	129.98	125.06
11	T2	201	CYC	O1D-CGD-CBD	3.19	133.33	123.08
11	M6	201	CYC	CMB-C2B-C1B	3.19	128.15	124.17
11	P4	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
11	Z2	202	CYC	CMB-C2B-C1B	3.19	128.15	124.17
11	I2	201	CYC	C1B-NB-C4B	-3.19	106.61	110.67
11	Z2	202	CYC	OB-C4B-C3B	-3.19	124.58	128.04
11	N6	302	CYC	C1B-NB-C4B	-3.19	106.61	110.67
11	Q2	201	CYC	C1A-C2A-C3A	-3.19	103.26	106.78
11	A8	301	CYC	C1A-C2A-C3A	-3.19	103.26	106.78
11	Z6	201	CYC	OB-C4B-C3B	-3.18	124.58	128.04
11	I4	203	CYC	CMA-C3A-C4A	3.18	129.97	125.06
11	D2	201	CYC	C1A-C2A-C3A	-3.18	103.26	106.78
11	A6	301	CYC	OB-C4B-C3B	-3.18	124.59	128.04
11	W2	201	CYC	O1D-CGD-CBD	3.18	133.31	123.08
11	E2	201	CYC	CMB-C2B-C1B	3.18	128.14	124.17
11	m3	201	CYC	CHB-C4A-C3A	3.18	133.08	124.90
11	C6	201	CYC	OB-C4B-C3B	-3.18	124.59	128.04
11	K2	203	CYC	C1A-C2A-C3A	-3.18	103.26	106.78
11	O6	201	CYC	O1D-CGD-CBD	3.18	133.30	123.08
11	H6	201	CYC	C1A-C2A-C3A	-3.18	103.26	106.78
11	P2	201	CYC	C1B-NB-C4B	-3.18	106.62	110.67
11	E2	203	CYC	O1D-CGD-CBD	3.18	133.30	123.08
11	B2	201	CYC	O1D-CGD-CBD	3.18	133.30	123.08
11	E8	203	CYC	CMA-C3A-C4A	3.18	129.96	125.06
11	A4	301	CYC	C1A-C2A-C3A	-3.18	103.26	106.78
11	Y6	201	CYC	O1D-CGD-CBD	3.18	133.29	123.08
11	G1	202	CYC	C1A-C2A-C3A	-3.18	103.27	106.78
11	U6	201	CYC	C2A-C1A-NA	3.18	114.67	110.05
11	L6	201	CYC	O1D-CGD-CBD	3.18	133.29	123.08
11	X2	201	CYC	OB-C4B-C3B	-3.18	124.59	128.04
11	Z2	201	CYC	C1A-C2A-C3A	-3.18	103.27	106.78
11	O6	201	CYC	C1A-C2A-C3A	-3.18	103.27	106.78
11	P2	201	CYC	CMB-C2B-C1B	3.18	128.13	124.17
11	C2	201	CYC	C1B-NB-C4B	-3.18	106.62	110.67
11	J6	201	CYC	C1A-C2A-C3A	-3.18	103.27	106.78
11	E2	201	CYC	C1B-NB-C4B	-3.18	106.62	110.67
11	K2	203	CYC	O1D-CGD-CBD	3.18	133.28	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	X2	203	CYC	O1D-CGD-CBD	3.18	133.28	123.08
11	T5	201	CYC	C1A-C2A-C3A	-3.18	103.27	106.78
11	Z5	202	CYC	C1A-C2A-C3A	-3.18	103.27	106.78
11	H2	201	CYC	O1D-CGD-CBD	3.17	133.28	123.08
11	I2	201	CYC	CMB-C2B-C1B	3.17	128.13	124.17
11	X8	201	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
11	Z6	201	CYC	C1B-NB-C4B	-3.17	106.63	110.67
11	D2	201	CYC	O1D-CGD-CBD	3.17	133.28	123.08
11	Q6	201	CYC	O1D-CGD-CBD	3.17	133.28	123.08
11	A6	301	CYC	C1B-NB-C4B	-3.17	106.63	110.67
11	T4	201	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
11	F6	201	CYC	O1D-CGD-CBD	3.17	133.27	123.08
11	M2	201	CYC	CMB-C2B-C1B	3.17	128.13	124.17
11	Z1	202	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
11	U6	201	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
11	Z2	201	CYC	O1D-CGD-CBD	3.17	133.27	123.08
11	I5	202	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
11	R5	202	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
11	C2	201	CYC	CMB-C2B-C1B	3.17	128.13	124.17
11	I6	201	CYC	CMB-C2B-C1B	3.17	128.13	124.17
11	C6	203	CYC	O1D-CGD-CBD	3.17	133.27	123.08
11	V3	201	CYC	CHB-C4A-C3A	3.17	133.05	124.90
11	P4	203	CYC	CMA-C3A-C4A	3.17	129.95	125.06
11	M1	202	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
11	N2	301	CYC	CMB-C2B-C1B	3.17	128.12	124.17
11	P6	201	CYC	C1B-NB-C4B	-3.17	106.63	110.67
11	N6	301	CYC	CMB-C2B-C1B	3.17	128.12	124.17
11	H6	201	CYC	O1D-CGD-CBD	3.17	133.26	123.08
11	W6	201	CYC	O1D-CGD-CBD	3.17	133.26	123.08
11	D4	201	CYC	C1B-C2B-C3B	-3.17	104.56	107.87
11	E4	203	CYC	CMA-C3A-C4A	3.17	129.94	125.06
11	Q6	201	CYC	C1A-C2A-C3A	-3.17	103.28	106.78
11	Y6	201	CYC	C4A-C3A-C2A	-3.17	102.87	106.51
11	G5	202	CYC	C1A-C2A-C3A	-3.17	103.28	106.78
11	K6	201	CYC	CMB-C2B-C1B	3.17	128.12	124.17
11	W4	201	CYC	C1B-C2B-C3B	-3.17	104.57	107.87
11	T1	201	CYC	C1A-C2A-C3A	-3.16	103.28	106.78
11	E2	201	CYC	OB-C4B-C3B	-3.16	124.61	128.04
11	U6	201	CYC	O1D-CGD-CBD	3.16	133.25	123.08
11	M2	201	CYC	OB-C4B-C3B	-3.16	124.61	128.04
11	A2	301	CYC	OB-C4B-C3B	-3.16	124.61	128.04
11	U8	201	CYC	C1B-C2B-C3B	-3.16	104.57	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	X6	201	CYC	CMB-C2B-C1B	3.16	128.11	124.17
11	Y8	201	CYC	C1B-C2B-C3B	-3.16	104.57	107.87
11	Q2	201	CYC	O1D-CGD-CBD	3.16	133.23	123.08
11	I6	201	CYC	OB-C4B-C3B	-3.16	124.61	128.04
11	N6	301	CYC	OB-C4B-C3B	-3.16	124.61	128.04
11	G8	201	CYC	C1B-C2B-C3B	-3.16	104.58	107.87
11	I2	203	CYC	C1A-C2A-C3A	-3.16	103.29	106.78
11	E6	201	CYC	C1B-NB-C4B	-3.16	106.65	110.67
11	Z2	202	CYC	C1B-NB-C4B	-3.16	106.65	110.67
11	H2	201	CYC	C1A-C2A-C3A	-3.16	103.29	106.78
11	W8	201	CYC	C1B-C2B-C3B	-3.16	104.58	107.87
11	K2	201	CYC	CMB-C2B-C1B	3.16	128.11	124.17
11	A2	301	CYC	C1B-NB-C4B	-3.16	106.65	110.67
11	I2	203	CYC	O1D-CGD-CBD	3.16	133.22	123.08
11	I4	203	CYC	C1B-C2B-C3B	-3.16	104.58	107.87
11	M6	201	CYC	OB-C4B-C3B	-3.16	124.62	128.04
11	X5	202	CYC	C1A-C2A-C3A	-3.15	103.29	106.78
11	P6	201	CYC	OB-C4B-C3B	-3.15	124.62	128.04
11	E8	201	CYC	C1A-C2A-C3A	-3.15	103.29	106.78
11	V2	201	CYC	C1B-NB-C4B	-3.15	106.65	110.67
11	M6	201	CYC	C1B-NB-C4B	-3.15	106.65	110.67
11	E8	203	CYC	C1B-C2B-C3B	-3.15	104.58	107.87
11	K5	202	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
11	C2	201	CYC	OB-C4B-C3B	-3.15	124.62	128.04
11	X2	203	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
11	Y6	201	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
11	R1	202	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
11	N8	301	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
11	V6	201	CYC	CMB-C2B-C1B	3.15	128.10	124.17
11	S4	201	CYC	C1B-C2B-C3B	-3.15	104.58	107.87
11	X4	201	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
11	C6	201	CYC	CMB-C2B-C1B	3.15	128.10	124.17
11	S8	201	CYC	C1B-C2B-C3B	-3.15	104.58	107.87
11	N2	302	CYC	C1B-NB-C4B	-3.15	106.66	110.67
11	T8	201	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
11	D8	201	CYC	C1B-C2B-C3B	-3.15	104.59	107.87
11	P5	202	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
11	E6	201	CYC	CMB-C2B-C1B	3.15	128.10	124.17
11	X2	203	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
11	K4	201	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
11	X2	201	CYC	CMB-C2B-C1B	3.15	128.09	124.17
11	X1	202	CYC	C1A-C2A-C3A	-3.14	103.30	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	I2	201	CYC	OB-C4B-C3B	-3.14	124.63	128.04
11	E6	201	CYC	OB-C4B-C3B	-3.14	124.63	128.04
11	J6	201	CYC	O1D-CGD-CBD	3.14	133.18	123.08
11	E4	203	CYC	C1B-C2B-C3B	-3.14	104.59	107.87
11	K6	201	CYC	C1B-NB-C4B	-3.14	106.67	110.67
11	P1	202	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
11	K8	201	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
11	N2	301	CYC	OB-C4B-C3B	-3.14	124.63	128.04
11	K2	201	CYC	C1B-NB-C4B	-3.14	106.67	110.67
11	X2	201	CYC	C1B-NB-C4B	-3.14	106.67	110.67
11	X6	201	CYC	C1B-NB-C4B	-3.14	106.67	110.67
11	K1	202	CYC	C4A-C3A-C2A	-3.14	102.90	106.51
11	V5	202	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
11	I1	202	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
11	G4	202	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
11	I8	201	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
11	Z8	201	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
11	U4	201	CYC	C1B-C2B-C3B	-3.14	104.60	107.87
11	I4	201	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
11	M4	202	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
11	U5	202	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
11	A2	301	CYC	CMB-C2B-C1B	3.14	128.08	124.17
11	P2	201	CYC	OB-C4B-C3B	-3.14	124.64	128.04
11	Z4	201	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
11	C1	201	CYC	C1A-C2A-C3A	-3.13	103.31	106.78
11	I8	203	CYC	C1B-C2B-C3B	-3.13	104.60	107.87
11	A6	301	CYC	CMB-C2B-C1B	3.13	128.08	124.17
11	D1	201	CYC	C1A-C2A-C3A	-3.13	103.31	106.78
11	M2	201	CYC	C1B-NB-C4B	-3.13	106.68	110.67
11	E4	201	CYC	C1A-C2A-C3A	-3.13	103.31	106.78
11	V2	201	CYC	CMB-C2B-C1B	3.13	128.08	124.17
11	O8	201	CYC	C1B-C2B-C3B	-3.13	104.60	107.87
11	I1	202	CYC	C4A-C3A-C2A	-3.13	102.91	106.51
11	N2	302	CYC	CMB-C2B-C1B	3.13	128.07	124.17
11	L4	201	CYC	C1B-C2B-C3B	-3.13	104.61	107.87
11	N2	302	CYC	OB-C4B-C3B	-3.13	124.64	128.04
11	X1	202	CYC	C4A-C3A-C2A	-3.13	102.92	106.51
11	C5	201	CYC	C1A-C2A-C3A	-3.13	103.32	106.78
11	V6	201	CYC	C1B-NB-C4B	-3.13	106.69	110.67
11	13	902	CYC	C2C-C1C-NC	3.13	110.97	108.27
11	P1	202	CYC	C4A-C3A-C2A	-3.12	102.92	106.51
11	U5	202	CYC	C4A-C3A-C2A	-3.12	102.92	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	L8	201	CYC	C1B-C2B-C3B	-3.12	104.61	107.87
11	N4	301	CYC	C1A-C2A-C3A	-3.12	103.33	106.78
11	G8	202	CYC	C1A-C2A-C3A	-3.12	103.33	106.78
11	N6	302	CYC	OB-C4B-C3B	-3.12	124.65	128.04
11	Q6	201	CYC	C4A-C3A-C2A	-3.12	102.92	106.51
11	P5	202	CYC	C4A-C3A-C2A	-3.12	102.92	106.51
11	V8	201	CYC	C1A-C2A-C3A	-3.12	103.33	106.78
11	M8	201	CYC	C1B-C2B-C3B	-3.12	104.62	107.87
11	G5	202	CYC	C4A-C3A-C2A	-3.12	102.93	106.51
11	R6	202	CYC	C4A-C3A-C2A	-3.12	102.93	106.51
11	U1	202	CYC	C1A-C2A-C3A	-3.12	103.33	106.78
11	U3	1001	CYC	C2C-C1C-NC	3.12	110.96	108.27
11	U3	1001	CYC	C2A-C1A-NA	3.11	114.58	110.05
11	U1	202	CYC	C4A-C3A-C2A	-3.11	102.93	106.51
11	M8	202	CYC	C1A-C2A-C3A	-3.11	103.34	106.78
11	G1	202	CYC	C4A-C3A-C2A	-3.11	102.93	106.51
11	Q3	1001	CYC	CBD-CAD-C3D	-3.11	107.31	112.62
11	r3	1001	CYC	C2A-C1A-NA	3.11	114.58	110.05
11	D2	201	CYC	C4A-C3A-C2A	-3.11	102.93	106.51
11	X5	202	CYC	C4A-C3A-C2A	-3.11	102.93	106.51
11	O4	201	CYC	C1B-C2B-C3B	-3.11	104.62	107.87
11	N6	301	CYC	C1B-NB-C4B	-3.11	106.71	110.67
11	e3	1001	CYC	C2C-C1C-NC	3.11	110.96	108.27
11	V1	202	CYC	C1A-C2A-C3A	-3.11	103.34	106.78
11	13	904	CYC	C2A-C1A-NA	3.11	114.58	110.05
11	n3	1001	CYC	C2A-C1A-NA	3.11	114.58	110.05
11	K2	201	CYC	OB-C4B-C3B	-3.11	124.66	128.04
11	V2	201	CYC	OB-C4B-C3B	-3.11	124.66	128.04
11	I5	202	CYC	C1B-C2B-C3B	-3.11	104.62	107.87
11	I1	202	CYC	C1B-C2B-C3B	-3.11	104.63	107.87
11	p3	1001	CYC	C2A-C1A-NA	3.11	114.57	110.05
11	S2	201	CYC	C4A-C3A-C2A	-3.11	102.94	106.51
11	H3	1001	CYC	C2C-C1C-NC	3.11	110.95	108.27
11	G4	201	CYC	C1B-C2B-C3B	-3.11	104.63	107.87
11	W3	1001	CYC	C2A-C1A-NA	3.11	114.57	110.05
11	G1	202	CYC	C1B-C2B-C3B	-3.11	104.63	107.87
11	g3	1001	CYC	CBD-CAD-C3D	-3.11	107.32	112.62
11	D5	201	CYC	C4A-C3A-C2A	-3.11	102.94	106.51
11	K2	203	CYC	C4A-C3A-C2A	-3.11	102.94	106.51
11	N6	302	CYC	CMB-C2B-C1B	3.11	128.04	124.17
11	Q5	201	CYC	C1A-C2A-C3A	-3.11	103.34	106.78
11	H6	201	CYC	C4A-C3A-C2A	-3.11	102.94	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	C5	201	CYC	C4A-C3A-C2A	-3.10	102.94	106.51
11	C1	201	CYC	C4A-C3A-C2A	-3.10	102.94	106.51
11	R1	202	CYC	C4A-C3A-C2A	-3.10	102.94	106.51
11	O3	1001	CYC	C2C-C1C-NC	3.10	110.95	108.27
11	r3	1001	CYC	C2C-C1C-NC	3.10	110.95	108.27
11	V6	201	CYC	OB-C4B-C3B	-3.10	124.67	128.04
11	D5	201	CYC	C1A-C2A-C3A	-3.10	103.35	106.78
11	N2	301	CYC	C1B-NB-C4B	-3.10	106.72	110.67
11	K1	202	CYC	C1A-C2A-C3A	-3.10	103.35	106.78
11	V4	201	CYC	C1A-C2A-C3A	-3.10	103.35	106.78
11	P8	203	CYC	C1B-C2B-C3B	-3.10	104.64	107.87
11	n3	1001	CYC	C1A-C2A-C3A	-3.10	103.35	106.78
11	v3	1001	CYC	C1A-C2A-C3A	-3.10	103.36	106.78
11	H2	201	CYC	C4A-C3A-C2A	-3.10	102.95	106.51
11	Q2	201	CYC	C4A-C3A-C2A	-3.10	102.95	106.51
11	K6	201	CYC	OB-C4B-C3B	-3.10	124.68	128.04
11	v3	1001	CYC	C2A-C1A-NA	3.09	114.55	110.05
11	C6	203	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
11	U3	1001	CYC	C1A-C2A-C3A	-3.09	103.36	106.78
11	I5	202	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
11	L6	201	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
11	G5	202	CYC	C1B-C2B-C3B	-3.09	104.64	107.87
11	W2	201	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
11	H3	1001	CYC	C2A-C1A-NA	3.09	114.55	110.05
11	I2	203	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
11	e3	1001	CYC	C2A-C1A-NA	3.09	114.55	110.05
11	L7	1001	CYC	C1B-C2B-C3B	-3.09	104.65	107.87
11	F6	201	CYC	C2C-C1C-NC	3.09	110.94	108.27
11	J6	201	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
11	R6	202	CYC	CAA-C2A-C1A	3.09	130.47	125.01
11	c3	1001	CYC	C2C-C1C-NC	3.09	110.94	108.27
11	t3	1001	CYC	C4D-CHA-C1A	3.09	132.50	128.81
11	J3	201	CYC	C2A-C1A-NA	3.09	114.54	110.05
11	M4	201	CYC	C1B-C2B-C3B	-3.09	104.65	107.87
11	T2	201	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
11	R5	202	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
11	W3	1001	CYC	C1A-C2A-C3A	-3.09	103.36	106.78
11	P4	203	CYC	C1B-C2B-C3B	-3.09	104.65	107.87
11	X5	202	CYC	C1B-C2B-C3B	-3.09	104.65	107.87
11	13	903	CYC	C2A-C1A-NA	3.09	114.54	110.05
11	C5	201	CYC	C1B-C2B-C3B	-3.09	104.65	107.87
11	O6	201	CYC	C4A-C3A-C2A	-3.09	102.96	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	V7	1001	CYC	C1B-C2B-C3B	-3.09	104.65	107.87
11	D1	201	CYC	C4A-C3A-C2A	-3.09	102.97	106.51
11	r3	1001	CYC	C1A-C2A-C3A	-3.09	103.37	106.78
11	C7	1001	CYC	C1B-C2B-C3B	-3.08	104.65	107.87
11	13	904	CYC	C4D-CHA-C1A	3.08	132.49	128.81
11	I2	201	CYC	CAD-CBD-CGD	-3.08	105.11	113.76
11	M1	202	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
11	F6	201	CYC	CAA-C2A-C1A	3.08	130.46	125.01
11	B6	201	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
11	13	902	CYC	C2A-C1A-NA	3.08	114.53	110.05
11	T2	201	CYC	CAA-C2A-C1A	3.08	130.46	125.01
11	U5	201	CYC	C1A-C2A-C3A	-3.08	103.37	106.78
11	l3	1001	CYC	C2A-C1A-NA	3.08	114.53	110.05
11	V2	201	CYC	CAD-CBD-CGD	-3.08	105.12	113.76
11	I6	201	CYC	CAD-CBD-CGD	-3.08	105.12	113.76
11	Q6	201	CYC	C2C-C1C-NC	3.08	110.93	108.27
11	Y6	201	CYC	C2C-C1C-NC	3.08	110.93	108.27
11	S3	1001	CYC	C2A-C1A-NA	3.08	114.53	110.05
11	K2	201	CYC	CAD-CBD-CGD	-3.08	105.13	113.76
11	M3	201	CYC	C2A-C1A-NA	3.08	114.53	110.05
11	E6	201	CYC	CAD-CBD-CGD	-3.08	105.13	113.76
11	P6	201	CYC	CAD-CBD-CGD	-3.08	105.13	113.76
11	B2	201	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
11	M7	1001	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
11	S2	201	CYC	CAA-C2A-C1A	3.08	130.46	125.01
11	C6	203	CYC	CAA-C2A-C1A	3.08	130.46	125.01
11	O3	1001	CYC	C2A-C1A-NA	3.08	114.53	110.05
11	R5	202	CYC	C1B-C2B-C3B	-3.08	104.66	107.87
11	X1	202	CYC	C1B-C2B-C3B	-3.08	104.66	107.87
11	E2	201	CYC	CAD-CBD-CGD	-3.08	105.13	113.76
11	D2	201	CYC	CAA-C2A-C1A	3.08	130.45	125.01
11	l3	1001	CYC	C4D-CHA-C1A	3.08	132.48	128.81
11	p3	1001	CYC	C2C-C1C-NC	3.08	110.92	108.27
11	B6	201	CYC	C2C-C1C-NC	3.08	110.92	108.27
11	P2	201	CYC	CAD-CBD-CGD	-3.08	105.14	113.76
11	C5	201	CYC	C2C-C1C-NC	3.08	110.92	108.27
11	H6	201	CYC	C2C-C1C-NC	3.08	110.92	108.27
11	K6	201	CYC	CAD-CBD-CGD	-3.07	105.14	113.76
11	z3	1001	CYC	C2A-C1A-NA	3.07	114.52	110.05
11	Z2	202	CYC	CAD-CBD-CGD	-3.07	105.14	113.76
11	K5	202	CYC	C1A-C2A-C3A	-3.07	103.38	106.78
11	x3	1001	CYC	C2C-C1C-NC	3.07	110.92	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	13	904	CYC	C1A-C2A-C3A	-3.07	103.38	106.78
11	X2	201	CYC	CAD-CBD-CGD	-3.07	105.15	113.76
11	X6	201	CYC	CAD-CBD-CGD	-3.07	105.15	113.76
11	Z6	201	CYC	CAD-CBD-CGD	-3.07	105.15	113.76
11	U5	202	CYC	C1B-C2B-C3B	-3.07	104.67	107.87
11	Q7	1001	CYC	C1B-C2B-C3B	-3.07	104.67	107.87
11	B6	201	CYC	CAA-C2A-C1A	3.07	130.44	125.01
11	F6	201	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
11	O1	201	CYC	C1A-C2A-C3A	-3.07	103.38	106.78
11	R1	202	CYC	C1B-C2B-C3B	-3.07	104.67	107.87
11	Z7	1001	CYC	C1B-C2B-C3B	-3.07	104.67	107.87
11	C6	201	CYC	CAD-CBD-CGD	-3.07	105.15	113.76
11	03	902	CYC	C2A-C1A-NA	3.07	114.52	110.05
11	j3	1001	CYC	C2A-C1A-NA	3.07	114.52	110.05
11	T1	201	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
11	Z5	202	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
11	Q1	201	CYC	C1A-C2A-C3A	-3.07	103.39	106.78
11	X2	203	CYC	CAA-C2A-C1A	3.07	130.44	125.01
11	Q2	201	CYC	C2C-C1C-NC	3.07	110.92	108.27
11	n3	1001	CYC	C2C-C1C-NC	3.07	110.92	108.27
11	T5	201	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
11	H6	201	CYC	CAA-C2A-C1A	3.07	130.44	125.01
11	W7	1001	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
11	13	904	CYC	C2C-C1C-NC	3.07	110.92	108.27
11	W3	1001	CYC	C2C-C1C-NC	3.07	110.92	108.27
11	V6	201	CYC	CAD-CBD-CGD	-3.07	105.16	113.76
11	P5	202	CYC	C1B-C2B-C3B	-3.07	104.67	107.87
11	L6	201	CYC	CAA-C2A-C1A	3.07	130.43	125.01
11	O6	201	CYC	CAA-C2A-C1A	3.07	130.43	125.01
11	N2	302	CYC	CAD-CBD-CGD	-3.07	105.16	113.76
11	M3	201	CYC	C2C-C1C-NC	3.07	110.92	108.27
11	N6	302	CYC	CAD-CBD-CGD	-3.07	105.17	113.76
11	U1	201	CYC	C1A-C2A-C3A	-3.07	103.39	106.78
11	B5	201	CYC	C1A-C2A-C3A	-3.07	103.39	106.78
11	C2	201	CYC	CAD-CBD-CGD	-3.06	105.17	113.76
11	S3	1001	CYC	C1A-C2A-C3A	-3.06	103.39	106.78
11	r3	1001	CYC	C4D-CHA-C1A	3.06	132.47	128.81
11	E2	203	CYC	CAA-C2A-C1A	3.06	130.43	125.01
11	J5	201	CYC	C1A-C2A-C3A	-3.06	103.39	106.78
11	E2	203	CYC	C2C-C1C-NC	3.06	110.91	108.27
11	j3	1001	CYC	C2C-C1C-NC	3.06	110.91	108.27
11	M2	201	CYC	CAD-CBD-CGD	-3.06	105.17	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	t3	1001	CYC	C2A-C1A-NA	3.06	114.50	110.05
11	B1	201	CYC	C1A-C2A-C3A	-3.06	103.39	106.78
11	M6	201	CYC	CAD-CBD-CGD	-3.06	105.18	113.76
11	03	902	CYC	C2C-C1C-NC	3.06	110.91	108.27
11	03	902	CYC	C4D-CHA-C1A	3.06	132.46	128.81
11	J3	201	CYC	C4D-CHA-C1A	3.06	132.46	128.81
11	Z2	201	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
11	Y6	201	CYC	CAA-C2A-C1A	3.06	130.42	125.01
11	c3	1001	CYC	C2A-C1A-NA	3.06	114.50	110.05
11	v3	1001	CYC	C2C-C1C-NC	3.06	110.91	108.27
11	M5	202	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
11	N2	301	CYC	CAD-CBD-CGD	-3.06	105.19	113.76
11	K2	203	CYC	CAA-C2A-C1A	3.06	130.42	125.01
11	K1	202	CYC	C1B-C2B-C3B	-3.06	104.68	107.87
11	P1	202	CYC	C1B-C2B-C3B	-3.06	104.68	107.87
11	O7	1001	CYC	C1B-C2B-C3B	-3.06	104.68	107.87
11	x3	1001	CYC	C2A-C1A-NA	3.06	114.50	110.05
11	Z1	202	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
11	E7	1001	CYC	OC-C1C-C2C	-3.06	123.74	126.17
11	L1	201	CYC	C1A-C2A-C3A	-3.06	103.40	106.78
11	13	902	CYC	C1A-C2A-C3A	-3.06	103.40	106.78
11	C1	201	CYC	C1B-C2B-C3B	-3.06	104.68	107.87
11	T1	201	CYC	C1B-C2B-C3B	-3.06	104.68	107.87
11	Y7	1001	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
11	B2	201	CYC	CAA-C2A-C1A	3.06	130.41	125.01
11	C1	202	CYC	C1A-C2A-C3A	-3.05	103.40	106.78
11	A2	301	CYC	CAD-CBD-CGD	-3.05	105.20	113.76
11	S3	1001	CYC	C2C-C1C-NC	3.05	110.91	108.27
11	z3	1001	CYC	C2C-C1C-NC	3.05	110.91	108.27
11	E2	203	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
11	U6	201	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
11	W2	201	CYC	CAA-C2A-C1A	3.05	130.41	125.01
11	D1	201	CYC	C1B-C2B-C3B	-3.05	104.68	107.87
11	S1	201	CYC	C1A-C2A-C3A	-3.05	103.40	106.78
11	A6	301	CYC	CAD-CBD-CGD	-3.05	105.20	113.76
11	H2	201	CYC	CAA-C2A-C1A	3.05	130.41	125.01
11	U1	202	CYC	C1B-C2B-C3B	-3.05	104.69	107.87
11	l3	1001	CYC	C2C-C1C-NC	3.05	110.90	108.27
11	S5	201	CYC	C1A-C2A-C3A	-3.05	103.41	106.78
11	H5	201	CYC	C1A-C2A-C3A	-3.05	103.41	106.78
11	M5	202	CYC	C1B-C2B-C3B	-3.05	104.69	107.87
11	A7	1001	CYC	C1B-C2B-C3B	-3.05	104.69	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	W6	201	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
11	x3	1001	CYC	C4D-CHA-C1A	3.05	132.45	128.81
11	p3	1001	CYC	C4D-CHA-C1A	3.05	132.45	128.81
11	Q2	201	CYC	CAA-C2A-C1A	3.05	130.40	125.01
11	J3	201	CYC	C1A-C2A-C3A	-3.05	103.41	106.78
11	p3	1001	CYC	C1A-C2A-C3A	-3.05	103.41	106.78
11	z3	1001	CYC	C1A-C2A-C3A	-3.05	103.41	106.78
11	F5	201	CYC	C1A-C2A-C3A	-3.05	103.41	106.78
11	K7	1001	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
11	M3	201	CYC	C1A-C2A-C3A	-3.05	103.41	106.78
11	13	903	CYC	C4D-CHA-C1A	3.05	132.45	128.81
11	e3	1001	CYC	C4D-CHA-C1A	3.05	132.45	128.81
11	M1	202	CYC	C1B-C2B-C3B	-3.05	104.69	107.87
11	a7	1001	CYC	C4A-C3A-C2A	-3.04	103.01	106.51
11	c3	1001	CYC	C4D-CHA-C1A	3.04	132.45	128.81
11	j3	1001	CYC	C1A-C2A-C3A	-3.04	103.41	106.78
11	C5	202	CYC	C1A-C2A-C3A	-3.04	103.41	106.78
11	O5	201	CYC	C1A-C2A-C3A	-3.04	103.41	106.78
11	X7	1001	CYC	C1B-C2B-C3B	-3.04	104.69	107.87
11	N6	301	CYC	CAD-CBD-CGD	-3.04	105.23	113.76
11	D5	201	CYC	C1B-C2B-C3B	-3.04	104.70	107.87
11	W6	201	CYC	CAA-C2A-C1A	3.04	130.39	125.01
11	13	902	CYC	C4D-CHA-C1A	3.04	132.44	128.81
11	J1	201	CYC	C1A-C2A-C3A	-3.04	103.42	106.78
11	13	903	CYC	C1A-C2A-C3A	-3.04	103.42	106.78
11	Z2	201	CYC	CAA-C2A-C1A	3.04	130.39	125.01
11	E7	1001	CYC	C1B-C2B-C3B	-3.04	104.70	107.87
11	S7	1001	CYC	C1B-C2B-C3B	-3.04	104.70	107.87
11	J6	201	CYC	CAA-C2A-C1A	3.04	130.39	125.01
11	O3	1001	CYC	C1A-C2A-C3A	-3.04	103.42	106.78
11	03	902	CYC	C1A-C2A-C3A	-3.04	103.42	106.78
11	L5	201	CYC	C1A-C2A-C3A	-3.04	103.42	106.78
11	T7	1001	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
11	G5	202	CYC	C2C-C1C-NC	3.04	110.89	108.27
11	Z1	202	CYC	C1B-C2B-C3B	-3.04	104.70	107.87
11	H3	1001	CYC	C1A-C2A-C3A	-3.04	103.42	106.78
11	U5	202	CYC	C2C-C1C-NC	3.04	110.89	108.27
11	I2	203	CYC	CAA-C2A-C1A	3.04	130.38	125.01
11	x3	1001	CYC	C1A-C2A-C3A	-3.04	103.42	106.78
11	S3	1001	CYC	C4D-CHA-C1A	3.04	132.44	128.81
11	U1	202	CYC	C2C-C1C-NC	3.04	110.89	108.27
11	J3	201	CYC	C2C-C1C-NC	3.04	110.89	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	F1	201	CYC	C1A-C2A-C3A	-3.03	103.42	106.78
11	X2	203	CYC	C2C-C1C-NC	3.03	110.89	108.27
11	13	903	CYC	C2C-C1C-NC	3.03	110.89	108.27
11	Z5	202	CYC	C1B-C2B-C3B	-3.03	104.70	107.87
11	C7	1001	CYC	C1B-NB-C4B	-3.03	106.81	110.67
11	Q6	201	CYC	CAA-C2A-C1A	3.03	130.38	125.01
11	X1	203	CYC	C1A-C2A-C3A	-3.03	103.42	106.78
11	e3	1001	CYC	C1A-C2A-C3A	-3.03	103.42	106.78
11	D7	1001	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
11	j3	1001	CYC	C4D-CHA-C1A	3.03	132.43	128.81
11	U6	201	CYC	CAA-C2A-C1A	3.03	130.37	125.01
11	H2	201	CYC	C2C-C1C-NC	3.03	110.89	108.27
11	v3	1001	CYC	C4D-CHA-C1A	3.03	132.43	128.81
11	t3	1001	CYC	C2C-C1C-NC	3.03	110.89	108.27
11	H1	201	CYC	C1A-C2A-C3A	-3.03	103.43	106.78
11	X5	203	CYC	C1A-C2A-C3A	-3.03	103.43	106.78
11	n3	1001	CYC	C4D-CHA-C1A	3.03	132.43	128.81
11	c3	1001	CYC	C1A-C2A-C3A	-3.03	103.43	106.78
11	O6	201	CYC	C2C-C1C-NC	3.03	110.88	108.27
11	J7	1001	CYC	C1B-C2B-C3B	-3.03	104.71	107.87
11	W3	1001	CYC	C4D-CHA-C1A	3.03	132.43	128.81
11	F7	1001	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
11	K5	202	CYC	C1B-C2B-C3B	-3.03	104.71	107.87
11	M3	201	CYC	C4D-CHA-C1A	3.03	132.42	128.81
11	U3	1001	CYC	C4D-CHA-C1A	3.02	132.42	128.81
11	K2	203	CYC	C2C-C1C-NC	3.02	110.88	108.27
11	C7	1001	CYC	OC-C1C-C2C	-3.02	123.77	126.17
11	O3	1001	CYC	C4D-CHA-C1A	3.02	132.42	128.81
11	l3	1001	CYC	C1A-C2A-C3A	-3.02	103.44	106.78
11	O7	1001	CYC	C1B-NB-C4B	-3.02	106.82	110.67
11	B2	201	CYC	C2C-C1C-NC	3.02	110.88	108.27
11	T2	201	CYC	C2C-C1C-NC	3.02	110.88	108.27
11	T5	201	CYC	C1B-C2B-C3B	-3.02	104.72	107.87
11	H7	1001	CYC	C1B-C2B-C3B	-3.02	104.72	107.87
11	R1	202	CYC	C2C-C1C-NC	3.02	110.88	108.27
11	L5	201	CYC	C2A-C1A-NA	3.02	114.44	110.05
11	K5	202	CYC	C2C-C1C-NC	3.02	110.87	108.27
11	A7	1001	CYC	C1B-NB-C4B	-3.02	106.83	110.67
11	13	902	CYC	CAA-C2A-C3A	3.02	133.50	127.88
11	S3	1001	CYC	CAA-C2A-C3A	3.02	133.50	127.88
11	O5	201	CYC	C2A-C1A-NA	3.02	114.44	110.05
11	V5	202	CYC	C2A-C1A-NA	3.02	114.44	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Z5	202	CYC	C2C-C1C-NC	3.01	110.87	108.27
11	E7	1001	CYC	C1B-NB-C4B	-3.01	106.83	110.67
11	C1	201	CYC	C2C-C1C-NC	3.01	110.87	108.27
11	O7	1001	CYC	OC-C1C-C2C	-3.01	123.78	126.17
11	I7	1001	CYC	C4A-C3A-C2A	-3.01	103.05	106.51
11	R5	202	CYC	C2C-C1C-NC	3.01	110.87	108.27
11	z3	1001	CYC	C4D-CHA-C1A	3.01	132.41	128.81
11	L7	1001	CYC	C1B-NB-C4B	-3.01	106.83	110.67
11	U3	1001	CYC	CAA-C2A-C3A	3.01	133.49	127.88
11	S7	1001	CYC	C1B-NB-C4B	-3.01	106.84	110.67
11	H3	1001	CYC	C4D-CHA-C1A	3.01	132.41	128.81
11	G1	202	CYC	C2C-C1C-NC	3.01	110.87	108.27
11	V7	1001	CYC	OC-C1C-C2C	-3.01	123.78	126.17
11	Q7	1001	CYC	C1B-NB-C4B	-3.01	106.84	110.67
11	t3	1001	CYC	C1A-C2A-C3A	-3.01	103.45	106.78
11	P7	1001	CYC	C4A-C3A-C2A	-3.01	103.06	106.51
11	T1	201	CYC	C2C-C1C-NC	3.01	110.86	108.27
11	O1	201	CYC	C2A-C1A-NA	3.01	114.42	110.05
11	c3	1001	CYC	CAA-C2A-C3A	3.01	133.47	127.88
11	U6	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
11	P1	202	CYC	C2C-C1C-NC	3.00	110.86	108.27
11	C6	203	CYC	C2C-C1C-NC	3.00	110.86	108.27
11	U1	201	CYC	C2A-C1A-NA	3.00	114.42	110.05
11	V7	1001	CYC	C1B-NB-C4B	-3.00	106.85	110.67
11	U5	201	CYC	C2A-C1A-NA	3.00	114.41	110.05
11	L1	201	CYC	C2A-C1A-NA	3.00	114.41	110.05
11	I5	202	CYC	C2C-C1C-NC	3.00	110.86	108.27
11	R6	202	CYC	C2C-C1C-NC	3.00	110.86	108.27
11	W3	1001	CYC	CAA-C2A-C3A	3.00	133.46	127.88
11	D1	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
11	L7	1001	CYC	OC-C1C-C2C	-3.00	123.79	126.17
11	T5	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
11	j3	1001	CYC	CAA-C2A-C3A	3.00	133.46	127.88
11	V1	202	CYC	C2A-C1A-NA	3.00	114.41	110.05
11	Q5	201	CYC	C2A-C1A-NA	3.00	114.41	110.05
11	I1	202	CYC	C2C-C1C-NC	3.00	110.86	108.27
11	03	902	CYC	CAA-C2A-C3A	3.00	133.46	127.88
11	D2	201	CYC	C2C-C1C-NC	2.99	110.85	108.27
11	I2	203	CYC	C2C-C1C-NC	2.99	110.85	108.27
11	W2	201	CYC	C2C-C1C-NC	2.99	110.85	108.27
11	S7	1001	CYC	OC-C1C-C2C	-2.99	123.79	126.17
11	x3	1001	CYC	CAA-C2A-C3A	2.99	133.45	127.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	v3	1001	CYC	CAA-C2A-C3A	2.99	133.45	127.88
11	A4	301	CYC	C2A-C1A-NA	2.99	114.40	110.05
11	X7	1001	CYC	OC-C1C-C2C	-2.99	123.80	126.17
11	r3	1001	CYC	CAA-C2A-C3A	2.99	133.44	127.88
11	J6	201	CYC	OB-C4B-C3B	-2.99	124.80	128.04
11	L6	201	CYC	C2C-C1C-NC	2.99	110.85	108.27
11	H5	201	CYC	C2A-C1A-NA	2.99	114.39	110.05
11	X5	203	CYC	C2A-C1A-NA	2.99	114.39	110.05
11	A8	301	CYC	C2A-C1A-NA	2.99	114.39	110.05
11	P8	201	CYC	C2A-C1A-NA	2.99	114.39	110.05
11	t3	1001	CYC	CMB-C2B-C1B	2.99	127.90	124.17
11	M3	201	CYC	CAA-C2A-C3A	2.99	133.44	127.88
11	J7	1001	CYC	C1B-NB-C4B	-2.99	106.87	110.67
11	R7	1001	CYC	C4A-C3A-C2A	-2.99	103.08	106.51
11	13	902	CYC	CMB-C2B-C1B	2.99	127.89	124.17
11	13	904	CYC	CAA-C2A-C3A	2.99	133.44	127.88
11	S2	201	CYC	C2C-C1C-NC	2.99	110.85	108.27
11	P4	201	CYC	C2A-C1A-NA	2.98	114.39	110.05
11	z3	1001	CYC	CAA-C2A-C3A	2.98	133.44	127.88
11	Z7	1001	CYC	OC-C1C-C2C	-2.98	123.80	126.17
11	B7	1001	CYC	C4A-C3A-C2A	-2.98	103.08	106.51
11	n3	1001	CYC	CAA-C2A-C3A	2.98	133.43	127.88
11	X2	203	CYC	OB-C4B-C3B	-2.98	124.80	128.04
11	H1	201	CYC	C2A-C1A-NA	2.98	114.39	110.05
11	P5	202	CYC	C2C-C1C-NC	2.98	110.84	108.27
11	X7	1001	CYC	C1B-NB-C4B	-2.98	106.87	110.67
11	T4	201	CYC	C2A-C1A-NA	2.98	114.39	110.05
11	Z4	201	CYC	C2A-C1A-NA	2.98	114.38	110.05
11	M5	202	CYC	C2C-C1C-NC	2.98	110.84	108.27
11	H3	1001	CYC	CAA-C2A-C3A	2.98	133.43	127.88
11	X1	203	CYC	C2A-C1A-NA	2.98	114.38	110.05
11	03	901	CYC	CHB-C4A-C3A	2.98	132.56	124.90
11	Z1	202	CYC	C2C-C1C-NC	2.98	110.84	108.27
11	M1	202	CYC	C2C-C1C-NC	2.98	110.84	108.27
11	W2	201	CYC	OB-C4B-C3B	-2.98	124.81	128.04
11	E4	201	CYC	OB-C4B-NB	-2.98	118.16	125.08
11	13	903	CYC	CAA-C2A-C3A	2.98	133.42	127.88
11	T4	201	CYC	OB-C4B-NB	-2.98	118.16	125.08
11	M4	202	CYC	C2A-C1A-NA	2.97	114.38	110.05
11	K1	202	CYC	C2C-C1C-NC	2.97	110.84	108.27
11	C6	203	CYC	OB-C4B-C3B	-2.97	124.81	128.04
11	J6	201	CYC	C2C-C1C-NC	2.97	110.84	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	T8	201	CYC	OB-C4B-NB	-2.97	118.17	125.08
11	X1	202	CYC	C2C-C1C-NC	2.97	110.83	108.27
11	D5	201	CYC	C2C-C1C-NC	2.97	110.83	108.27
11	X8	201	CYC	C2A-C1A-NA	2.97	114.37	110.05
11	p3	1001	CYC	CAA-C2A-C3A	2.97	133.41	127.88
11	t3	1001	CYC	CAA-C2A-C3A	2.97	133.41	127.88
11	H7	1001	CYC	OC-C1C-C2C	-2.97	123.81	126.17
11	S2	201	CYC	OB-C4B-C3B	-2.97	124.82	128.04
11	Z7	1001	CYC	C1B-NB-C4B	-2.97	106.89	110.67
11	Q1	201	CYC	C2A-C1A-NA	2.97	114.37	110.05
11	H7	1001	CYC	C1B-NB-C4B	-2.97	106.89	110.67
11	Z2	201	CYC	C2C-C1C-NC	2.97	110.83	108.27
11	V3	201	CYC	CMB-C2B-C1B	2.97	127.87	124.17
11	H6	201	CYC	OB-C4B-C3B	-2.97	124.82	128.04
11	B1	201	CYC	C2A-C1A-NA	2.97	114.36	110.05
11	C1	202	CYC	C2A-C1A-NA	2.97	114.36	110.05
11	S1	201	CYC	C2A-C1A-NA	2.97	114.36	110.05
11	X5	202	CYC	C2C-C1C-NC	2.97	110.83	108.27
11	13	901	CYC	CHB-C4A-C3A	2.97	132.53	124.90
11	Z8	201	CYC	C2A-C1A-NA	2.96	114.36	110.05
11	K2	203	CYC	OB-C4B-C3B	-2.96	124.82	128.04
11	U6	201	CYC	OB-C4B-C3B	-2.96	124.82	128.04
11	W6	201	CYC	OB-C4B-C3B	-2.96	124.82	128.04
11	Y6	201	CYC	OB-C4B-C3B	-2.96	124.82	128.04
11	J3	201	CYC	CAA-C2A-C3A	2.96	133.40	127.88
11	e3	1001	CYC	CAA-C2A-C3A	2.96	133.40	127.88
11	I2	203	CYC	OB-C4B-C3B	-2.96	124.83	128.04
11	l3	1001	CYC	CAA-C2A-C3A	2.96	133.39	127.88
11	r3	1001	CYC	CMB-C2B-C1B	2.96	127.86	124.17
11	E7	1001	CYC	CMA-C3A-C4A	2.96	129.62	125.06
11	c3	1001	CYC	CMB-C2B-C1B	2.96	127.86	124.17
11	I6	201	CYC	C1B-C2B-C3B	-2.96	104.78	107.87
11	K4	201	CYC	OB-C4B-NB	-2.96	118.20	125.08
11	B5	201	CYC	C2A-C1A-NA	2.96	114.35	110.05
11	N4	301	CYC	OB-C4B-NB	-2.96	118.20	125.08
11	V8	201	CYC	C2A-C1A-NA	2.96	114.35	110.05
11	K8	201	CYC	OB-C4B-NB	-2.96	118.21	125.08
11	x3	1001	CYC	CMB-C2B-C1B	2.96	127.86	124.17
11	O4	201	CYC	CAC-C3C-C2C	-2.96	106.88	114.26
11	V4	201	CYC	C2A-C1A-NA	2.96	114.35	110.05
11	I8	201	CYC	OB-C4B-NB	-2.95	118.21	125.08
11	C5	202	CYC	C2A-C1A-NA	2.95	114.35	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	13	903	CYC	CMB-C2B-C1B	2.95	127.86	124.17
11	K8	201	CYC	C2A-C1A-NA	2.95	114.34	110.05
11	X4	201	CYC	OB-C4B-NB	-2.95	118.22	125.08
11	J3	201	CYC	CMB-C2B-C1B	2.95	127.85	124.17
11	X8	201	CYC	OB-C4B-NB	-2.95	118.22	125.08
11	L6	201	CYC	OB-C4B-C3B	-2.95	124.84	128.04
11	A7	1001	CYC	OC-C1C-C2C	-2.95	123.83	126.17
11	V4	201	CYC	OB-C4B-NB	-2.95	118.22	125.08
11	Z4	201	CYC	C1B-C2B-C3B	-2.95	104.79	107.87
11	I8	201	CYC	C2A-C1A-NA	2.95	114.34	110.05
11	V8	201	CYC	OB-C4B-NB	-2.95	118.22	125.08
11	v3	1001	CYC	CMB-C2B-C1B	2.95	127.85	124.17
11	G8	202	CYC	C1B-C2B-C3B	-2.95	104.79	107.87
11	M8	202	CYC	C2A-C1A-NA	2.95	114.34	110.05
11	O3	1001	CYC	CAA-C2A-C3A	2.95	133.37	127.88
11	E8	201	CYC	OB-C4B-NB	-2.95	118.22	125.08
11	T8	201	CYC	C2A-C1A-NA	2.95	114.34	110.05
11	O8	201	CYC	CAC-C3C-C2C	-2.95	106.89	114.26
11	Y8	201	CYC	CAC-C3C-C2C	-2.95	106.89	114.26
11	N8	301	CYC	C1B-C2B-C3B	-2.95	104.79	107.87
11	j3	1001	CYC	CMB-C2B-C1B	2.95	127.85	124.17
11	M4	202	CYC	OB-C4B-NB	-2.95	118.23	125.08
11	J1	201	CYC	C2A-C1A-NA	2.95	114.34	110.05
11	X4	201	CYC	C2A-C1A-NA	2.95	114.34	110.05
11	K4	201	CYC	C2A-C1A-NA	2.95	114.34	110.05
11	M3	201	CYC	CMB-C2B-C1B	2.95	127.85	124.17
11	U8	201	CYC	CAC-C3C-C2C	-2.95	106.90	114.26
11	L8	201	CYC	CAC-C3C-C2C	-2.95	106.90	114.26
11	E8	201	CYC	C1B-C2B-C3B	-2.95	104.80	107.87
11	R6	202	CYC	OB-C4B-C3B	-2.95	124.84	128.04
11	S5	201	CYC	C2A-C1A-NA	2.95	114.33	110.05
11	G4	202	CYC	C1B-C2B-C3B	-2.94	104.80	107.87
11	D2	201	CYC	OB-C4B-C3B	-2.94	124.84	128.04
11	M8	202	CYC	OB-C4B-NB	-2.94	118.23	125.08
11	E8	201	CYC	C2A-C1A-NA	2.94	114.33	110.05
11	M4	201	CYC	CAC-C3C-C2C	-2.94	106.90	114.26
11	S8	201	CYC	CAC-C3C-C2C	-2.94	106.90	114.26
11	N8	301	CYC	OB-C4B-NB	-2.94	118.23	125.08
11	E8	203	CYC	CAC-C3C-C2C	-2.94	106.91	114.26
11	I4	201	CYC	OB-C4B-NB	-2.94	118.24	125.08
11	H2	201	CYC	OB-C4B-C3B	-2.94	124.85	128.04
11	Y4	201	CYC	CAC-C3C-C2C	-2.94	106.91	114.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	S4	201	CYC	CAC-C3C-C2C	-2.94	106.91	114.26
11	M8	201	CYC	CAC-C3C-C2C	-2.94	106.91	114.26
11	A8	301	CYC	OB-C4B-NB	-2.94	118.24	125.08
11	U4	201	CYC	CAC-C3C-C2C	-2.94	106.91	114.26
11	I8	203	CYC	CAC-C3C-C2C	-2.94	106.91	114.26
11	E4	201	CYC	C1B-C2B-C3B	-2.94	104.80	107.87
11	Z2	201	CYC	OB-C4B-C3B	-2.94	124.85	128.04
11	A4	301	CYC	OB-C4B-NB	-2.94	118.24	125.08
11	W3	1001	CYC	CMB-C2B-C1B	2.94	127.84	124.17
11	E4	203	CYC	CAC-C3C-C2C	-2.94	106.91	114.26
11	P4	201	CYC	OB-C4B-NB	-2.94	118.24	125.08
11	C2	201	CYC	C1B-C2B-C3B	-2.94	104.80	107.87
11	Z2	202	CYC	C1B-C2B-C3B	-2.94	104.80	107.87
11	B2	201	CYC	OB-C4B-C3B	-2.94	124.85	128.04
11	F1	201	CYC	C2A-C1A-NA	2.94	114.33	110.05
11	I4	201	CYC	C2A-C1A-NA	2.94	114.32	110.05
11	N8	301	CYC	C2A-C1A-NA	2.94	114.32	110.05
11	I4	203	CYC	CAC-C3C-C2C	-2.94	106.92	114.26
11	U3	1001	CYC	CMB-C2B-C1B	2.94	127.83	124.17
11	Z8	201	CYC	OB-C4B-NB	-2.94	118.25	125.08
11	O3	1001	CYC	CMB-C2B-C1B	2.94	127.83	124.17
11	V8	201	CYC	C1B-C2B-C3B	-2.94	104.81	107.87
11	E4	201	CYC	C2A-C1A-NA	2.94	114.32	110.05
11	Q7	1001	CYC	OC-C1C-C2C	-2.94	123.84	126.17
11	C6	201	CYC	C1B-C2B-C3B	-2.94	104.81	107.87
11	P8	201	CYC	OB-C4B-NB	-2.94	118.25	125.08
11	J7	1001	CYC	OC-C1C-C2C	-2.94	123.84	126.17
11	W8	201	CYC	CAC-C3C-C2C	-2.94	106.92	114.26
11	T2	201	CYC	OB-C4B-C3B	-2.94	124.86	128.04
11	M6	201	CYC	C1B-C2B-C3B	-2.94	104.81	107.87
11	Z6	201	CYC	C1B-C2B-C3B	-2.94	104.81	107.87
11	e3	1001	CYC	CMB-C2B-C1B	2.93	127.83	124.17
11	F5	201	CYC	C2A-C1A-NA	2.93	114.32	110.05
11	Z4	201	CYC	OB-C4B-NB	-2.93	118.26	125.08
11	I2	201	CYC	C1B-C2B-C3B	-2.93	104.81	107.87
11	Z8	201	CYC	C1B-C2B-C3B	-2.93	104.81	107.87
11	G4	201	CYC	CAC-C3C-C2C	-2.93	106.93	114.26
11	N4	301	CYC	C1B-C2B-C3B	-2.93	104.81	107.87
11	P6	201	CYC	C1B-C2B-C3B	-2.93	104.81	107.87
11	z3	1001	CYC	CMB-C2B-C1B	2.93	127.83	124.17
11	G8	202	CYC	OB-C4B-NB	-2.93	118.26	125.08
11	W4	201	CYC	CAC-C3C-C2C	-2.93	106.94	114.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	m3	201	CYC	CMB-C2B-C1B	2.93	127.83	124.17
11	A6	301	CYC	C1B-C2B-C3B	-2.93	104.81	107.87
11	X7	1001	CYC	CMA-C3A-C4A	2.93	129.58	125.06
11	N4	301	CYC	C2A-C1A-NA	2.93	114.31	110.05
11	G8	202	CYC	C2A-C1A-NA	2.93	114.31	110.05
11	P8	203	CYC	CAC-C3C-C2C	-2.93	106.94	114.26
11	J5	201	CYC	C2A-C1A-NA	2.93	114.31	110.05
11	03	902	CYC	CMB-C2B-C1B	2.93	127.82	124.17
11	Z7	1001	CYC	CMA-C3A-C4A	2.93	129.57	125.06
11	G8	201	CYC	CAC-C3C-C2C	-2.93	106.95	114.26
11	G4	202	CYC	OB-C4B-NB	-2.93	118.28	125.08
11	D8	201	CYC	CAC-C3C-C2C	-2.93	106.95	114.26
11	M4	202	CYC	C1B-C2B-C3B	-2.93	104.82	107.87
11	A8	301	CYC	C1B-C2B-C3B	-2.93	104.82	107.87
11	W6	201	CYC	C2C-C1C-NC	2.93	110.80	108.27
11	L4	201	CYC	CAC-C3C-C2C	-2.92	106.95	114.26
11	p3	1001	CYC	CMB-C2B-C1B	2.92	127.82	124.17
11	D4	201	CYC	CAC-C3C-C2C	-2.92	106.96	114.26
11	P4	203	CYC	CAC-C3C-C2C	-2.92	106.96	114.26
11	T8	201	CYC	C1B-C2B-C3B	-2.92	104.82	107.87
11	l3	1001	CYC	CMB-C2B-C1B	2.92	127.81	124.17
11	B6	201	CYC	OB-C4B-C3B	-2.92	124.87	128.04
11	S7	1001	CYC	CMA-C3A-C4A	2.92	129.56	125.06
11	S3	1001	CYC	CMB-C2B-C1B	2.92	127.81	124.17
11	A4	301	CYC	C1B-C2B-C3B	-2.92	104.83	107.87
11	J7	1001	CYC	CMA-C3A-C4A	2.92	129.55	125.06
11	V7	1001	CYC	CMA-C3A-C4A	2.92	129.55	125.06
11	13	904	CYC	CMB-C2B-C1B	2.91	127.81	124.17
11	M8	202	CYC	C1B-C2B-C3B	-2.91	104.83	107.87
11	L7	1001	CYC	CMA-C3A-C4A	2.91	129.55	125.06
11	Q7	1001	CYC	CMA-C3A-C4A	2.91	129.55	125.06
11	O6	201	CYC	OB-C4B-C3B	-2.91	124.88	128.04
11	H3	1001	CYC	CMB-C2B-C1B	2.91	127.80	124.17
11	E2	201	CYC	C1B-C2B-C3B	-2.91	104.83	107.87
11	N2	301	CYC	C1B-C2B-C3B	-2.91	104.83	107.87
11	Q2	201	CYC	OB-C4B-C3B	-2.91	124.88	128.04
11	V4	201	CYC	C1B-C2B-C3B	-2.91	104.83	107.87
11	C7	1001	CYC	CMA-C3A-C4A	2.91	129.54	125.06
11	H7	1001	CYC	CMA-C3A-C4A	2.91	129.54	125.06
11	O7	1001	CYC	CMA-C3A-C4A	2.91	129.54	125.06
11	E2	203	CYC	OB-C4B-C3B	-2.91	124.89	128.04
11	T4	201	CYC	C1B-C2B-C3B	-2.91	104.84	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	I8	201	CYC	C1B-C2B-C3B	-2.91	104.84	107.87
11	M2	201	CYC	C1B-C2B-C3B	-2.90	104.84	107.87
11	X4	201	CYC	C1B-C2B-C3B	-2.90	104.84	107.87
11	n3	1001	CYC	CMB-C2B-C1B	2.90	127.79	124.17
11	K4	202	CYC	CMB-C2B-C1B	2.90	127.79	124.17
11	P2	201	CYC	C1B-C2B-C3B	-2.90	104.84	107.87
11	K4	201	CYC	C1B-C2B-C3B	-2.90	104.84	107.87
11	A7	1001	CYC	CMA-C3A-C4A	2.90	129.53	125.06
11	N6	302	CYC	C1B-C2B-C3B	-2.90	104.85	107.87
11	V6	201	CYC	C1B-C2B-C3B	-2.90	104.85	107.87
11	P8	201	CYC	C1B-C2B-C3B	-2.89	104.85	107.87
11	G4	202	CYC	C2A-C1A-NA	2.89	114.26	110.05
11	N2	302	CYC	C1B-C2B-C3B	-2.89	104.85	107.87
11	K8	201	CYC	C1B-C2B-C3B	-2.89	104.85	107.87
11	03	901	CYC	CBD-CAD-C3D	-2.89	107.69	112.62
11	E6	201	CYC	C1B-C2B-C3B	-2.89	104.86	107.87
11	K6	201	CYC	C1B-C2B-C3B	-2.89	104.86	107.87
11	Q6	201	CYC	OB-C4B-C3B	-2.89	124.91	128.04
11	Q5	201	CYC	C1B-NB-C4B	-2.89	107.00	110.67
11	A2	301	CYC	C1B-C2B-C3B	-2.89	104.86	107.87
11	N6	301	CYC	C1B-C2B-C3B	-2.88	104.86	107.87
11	C5	202	CYC	C4D-CHA-C1A	2.88	132.25	128.81
11	B1	201	CYC	C4D-CHA-C1A	2.88	132.25	128.81
11	X8	201	CYC	C1B-C2B-C3B	-2.88	104.87	107.87
11	K2	201	CYC	C1B-C2B-C3B	-2.88	104.87	107.87
11	Y4	201	CYC	C4D-CHA-C1A	2.88	132.25	128.81
11	E4	203	CYC	C4D-CHA-C1A	2.88	132.24	128.81
11	X5	203	CYC	C4D-CHA-C1A	2.87	132.24	128.81
11	F6	201	CYC	OB-C4B-C3B	-2.87	124.92	128.04
11	B5	201	CYC	C4D-CHA-C1A	2.87	132.24	128.81
11	K8	202	CYC	CMB-C2B-C1B	2.87	127.75	124.17
11	I4	201	CYC	C1B-C2B-C3B	-2.87	104.88	107.87
11	V2	201	CYC	C1B-C2B-C3B	-2.87	104.88	107.87
11	13	901	CYC	CBD-CAD-C3D	-2.86	107.73	112.62
11	O1	201	CYC	C4D-CHA-C1A	2.86	132.23	128.81
11	N5	301	CYC	C2A-C1A-NA	2.86	114.21	110.05
11	P4	201	CYC	C1B-C2B-C3B	-2.86	104.88	107.87
11	L5	201	CYC	C4D-CHA-C1A	2.86	132.23	128.81
11	N4	301	CYC	OC-C1C-C2C	-2.86	123.90	126.17
11	V5	202	CYC	C1B-NB-C4B	-2.86	107.03	110.67
11	H1	201	CYC	C4D-CHA-C1A	2.86	132.22	128.81
11	C1	202	CYC	C4D-CHA-C1A	2.86	132.22	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	O5	201	CYC	C1B-NB-C4B	-2.86	107.03	110.67
11	O5	201	CYC	C4D-CHA-C1A	2.86	132.22	128.81
11	F5	201	CYC	C1B-NB-C4B	-2.85	107.03	110.67
11	X1	203	CYC	C4D-CHA-C1A	2.85	132.22	128.81
11	A4	301	CYC	OC-C1C-C2C	-2.85	123.91	126.17
11	Q1	201	CYC	C1B-NB-C4B	-2.85	107.04	110.67
11	S5	201	CYC	C4D-CHA-C1A	2.85	132.22	128.81
11	J5	201	CYC	C4D-CHA-C1A	2.85	132.22	128.81
11	X2	201	CYC	C1B-C2B-C3B	-2.85	104.90	107.87
11	V1	202	CYC	C4D-CHA-C1A	2.85	132.21	128.81
11	F1	201	CYC	C1B-NB-C4B	-2.85	107.04	110.67
11	H5	201	CYC	C4D-CHA-C1A	2.85	132.21	128.81
11	U1	201	CYC	C4D-CHA-C1A	2.85	132.21	128.81
11	N1	301	CYC	C2A-C1A-NA	2.85	114.19	110.05
11	X1	203	CYC	C1B-NB-C4B	-2.84	107.05	110.67
11	V1	202	CYC	C1B-NB-C4B	-2.84	107.05	110.67
11	Y8	201	CYC	C4D-CHA-C1A	2.84	132.20	128.81
11	J1	201	CYC	C4D-CHA-C1A	2.84	132.20	128.81
11	E8	203	CYC	C4D-CHA-C1A	2.84	132.20	128.81
11	V5	202	CYC	C4D-CHA-C1A	2.84	132.20	128.81
11	X3	1001	CYC	C1A-C2A-C3A	-2.84	103.64	106.78
11	I4	201	CYC	OC-C1C-C2C	-2.84	123.92	126.17
11	U5	201	CYC	C4D-CHA-C1A	2.84	132.20	128.81
11	L1	201	CYC	C1B-NB-C4B	-2.84	107.06	110.67
11	Z3	1001	CYC	C1A-C2A-C3A	-2.84	103.64	106.78
11	S1	201	CYC	C4D-CHA-C1A	2.84	132.20	128.81
11	X6	201	CYC	C1B-C2B-C3B	-2.84	104.91	107.87
11	O1	201	CYC	C1B-NB-C4B	-2.84	107.06	110.67
11	P4	201	CYC	OC-C1C-C2C	-2.83	123.92	126.17
11	C1	202	CYC	C1B-NB-C4B	-2.83	107.06	110.67
11	F1	201	CYC	C4D-CHA-C1A	2.83	132.19	128.81
11	A1	302	CYC	C2A-C1A-NA	2.83	114.17	110.05
11	X5	203	CYC	C1B-NB-C4B	-2.83	107.06	110.67
11	P5	201	CYC	C2A-C1A-NA	2.83	114.17	110.05
11	L1	201	CYC	C4D-CHA-C1A	2.83	132.19	128.81
11	Z1	201	CYC	C2A-C1A-NA	2.83	114.16	110.05
11	P4	203	CYC	C4D-CHA-C1A	2.83	132.19	128.81
11	S8	201	CYC	C4D-CHA-C1A	2.83	132.19	128.81
11	Q1	201	CYC	C4D-CHA-C1A	2.82	132.18	128.81
11	P1	201	CYC	C2A-C1A-NA	2.82	114.16	110.05
11	K8	201	CYC	OC-C1C-C2C	-2.82	123.93	126.17
11	S1	201	CYC	C1B-NB-C4B	-2.82	107.07	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	L5	201	CYC	C1B-NB-C4B	-2.82	107.07	110.67
11	F5	201	CYC	C4D-CHA-C1A	2.82	132.18	128.81
11	J5	201	CYC	C1B-NB-C4B	-2.82	107.08	110.67
11	V1	201	CYC	C2A-C1A-NA	2.82	114.15	110.05
11	J1	201	CYC	C1B-NB-C4B	-2.82	107.08	110.67
11	P8	201	CYC	OC-C1C-C2C	-2.82	123.93	126.17
11	A5	302	CYC	C2A-C1A-NA	2.82	114.15	110.05
11	V6	201	CYC	CMC-C2C-C1C	-2.82	106.33	112.40
11	A5	301	CYC	C2A-C1A-NA	2.82	114.15	110.05
11	I8	201	CYC	OC-C1C-C2C	-2.82	123.93	126.17
11	L4	201	CYC	C4D-CHA-C1A	2.82	132.18	128.81
11	R3	1001	CYC	C1A-C2A-C3A	-2.82	103.67	106.78
11	R1	201	CYC	C2A-C1A-NA	2.82	114.15	110.05
11	R5	201	CYC	C2A-C1A-NA	2.82	114.14	110.05
11	D7	1001	CYC	C1B-C2B-C3B	-2.82	104.93	107.87
11	X8	201	CYC	OC-C1C-C2C	-2.81	123.94	126.17
11	F4	201	CYC	CMB-C2B-C1B	2.81	127.68	124.17
11	Z5	201	CYC	C2A-C1A-NA	2.81	114.14	110.05
11	A1	301	CYC	C2A-C1A-NA	2.81	114.14	110.05
11	P6	201	CYC	CMC-C2C-C1C	-2.81	106.34	112.40
11	w3	1001	CYC	C1A-C2A-C3A	-2.81	103.67	106.78
11	N8	301	CYC	OC-C1C-C2C	-2.81	123.94	126.17
11	H1	201	CYC	C1B-NB-C4B	-2.81	107.09	110.67
11	X5	201	CYC	C2A-C1A-NA	2.81	114.14	110.05
11	G3	1001	CYC	C1A-C2A-C3A	-2.81	103.67	106.78
11	X6	202	CYC	CHA-C1A-NA	-2.81	124.93	128.83
11	A8	301	CYC	OC-C1C-C2C	-2.81	123.94	126.17
11	C6	203	CYC	C1B-C2B-C3B	-2.81	104.94	107.87
11	M5	201	CYC	C2A-C1A-NA	2.81	114.13	110.05
11	N3	1001	CYC	C1A-C2A-C3A	-2.81	103.68	106.78
11	B7	1001	CYC	C1A-C2A-C3A	-2.81	103.68	106.78
11	U5	201	CYC	C1B-NB-C4B	-2.81	107.10	110.67
11	P2	201	CYC	CMC-C2C-C1C	-2.81	106.36	112.40
11	K3	1001	CYC	C1A-C2A-C3A	-2.81	103.68	106.78
11	S4	201	CYC	C4D-CHA-C1A	2.81	132.16	128.81
11	X1	201	CYC	C2A-C1A-NA	2.80	114.13	110.05
11	E8	201	CYC	OC-C1C-C2C	-2.80	123.94	126.17
11	M8	202	CYC	OC-C1C-C2C	-2.80	123.94	126.17
11	C5	202	CYC	C1B-NB-C4B	-2.80	107.10	110.67
11	s3	1001	CYC	C1A-C2A-C3A	-2.80	103.68	106.78
11	V2	201	CYC	CMC-C2C-C1C	-2.80	106.36	112.40
11	G8	202	CYC	OC-C1C-C2C	-2.80	123.94	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	M1	201	CYC	C2A-C1A-NA	2.80	114.12	110.05
11	I5	201	CYC	C2A-C1A-NA	2.80	114.12	110.05
11	Q5	201	CYC	C4D-CHA-C1A	2.80	132.16	128.81
11	I2	201	CYC	CMC-C2C-C1C	-2.80	106.36	112.40
11	B5	201	CYC	C1B-NB-C4B	-2.80	107.10	110.67
11	I6	201	CYC	CMC-C2C-C1C	-2.80	106.37	112.40
11	D8	201	CYC	C4D-CHA-C1A	2.80	132.15	128.81
11	T3	1001	CYC	C1A-C2A-C3A	-2.80	103.68	106.78
11	V5	201	CYC	C2A-C1A-NA	2.80	114.12	110.05
11	U4	201	CYC	C4D-CHA-C1A	2.80	132.15	128.81
11	q3	1001	CYC	C1A-C2A-C3A	-2.80	103.69	106.78
11	y3	1001	CYC	C1A-C2A-C3A	-2.80	103.69	106.78
11	S5	201	CYC	C1B-NB-C4B	-2.80	107.11	110.67
11	d3	1001	CYC	C1A-C2A-C3A	-2.80	103.69	106.78
11	P7	1001	CYC	C1A-C2A-C3A	-2.80	103.69	106.78
11	Z7	1001	CYC	C4D-CHA-C1A	2.80	132.15	128.81
11	U1	201	CYC	C1B-NB-C4B	-2.80	107.11	110.67
11	K4	201	CYC	OC-C1C-C2C	-2.80	123.95	126.17
11	A6	301	CYC	CMC-C2C-C1C	-2.79	106.38	112.40
11	U8	201	CYC	C4D-CHA-C1A	2.79	132.15	128.81
11	K2	201	CYC	CMC-C2C-C1C	-2.79	106.38	112.40
11	M4	201	CYC	C4D-CHA-C1A	2.79	132.15	128.81
11	W8	201	CYC	C4D-CHA-C1A	2.79	132.15	128.81
11	R5	202	CYC	CMB-C2B-C3B	2.79	133.70	126.12
11	f3	1001	CYC	C1A-C2A-C3A	-2.79	103.69	106.78
11	X2	201	CYC	CMC-C2C-C1C	-2.79	106.38	112.40
11	L7	1001	CYC	C4D-CHA-C1A	2.79	132.14	128.81
11	o3	1001	CYC	C1A-C2A-C3A	-2.79	103.69	106.78
11	M7	1001	CYC	C1B-C2B-C3B	-2.79	104.96	107.87
11	M6	201	CYC	CMC-C2C-C1C	-2.79	106.39	112.40
11	L8	201	CYC	C4D-CHA-C1A	2.79	132.14	128.81
11	F8	201	CYC	CMB-C2B-C1B	2.79	127.65	124.17
11	G6	201	CYC	CMB-C2B-C1B	2.79	127.65	124.17
11	R6	202	CYC	C1B-C2B-C3B	-2.79	104.96	107.87
11	R7	1001	CYC	C1B-C2B-C3B	-2.79	104.96	107.87
11	M7	1001	CYC	CAC-C3C-C2C	-2.79	107.29	114.26
11	I1	201	CYC	C2A-C1A-NA	2.79	114.11	110.05
11	Z6	201	CYC	CMC-C2C-C1C	-2.79	106.39	112.40
11	E7	1001	CYC	C4D-CHA-C1A	2.79	132.14	128.81
11	F7	1001	CYC	CAC-C3C-C2C	-2.79	107.30	114.26
11	M2	201	CYC	CMC-C2C-C1C	-2.79	106.39	112.40
11	k3	1001	CYC	C1A-C2A-C3A	-2.79	103.70	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	D7	1001	CYC	C1A-C2A-C3A	-2.79	103.70	106.78
11	W4	201	CYC	C4D-CHA-C1A	2.79	132.14	128.81
11	P7	1001	CYC	C1B-C2B-C3B	-2.79	104.96	107.87
11	B1	201	CYC	C1B-NB-C4B	-2.79	107.12	110.67
11	I2	202	CYC	CHA-C1A-NA	-2.79	124.96	128.83
11	P8	203	CYC	C4D-CHA-C1A	2.79	132.14	128.81
11	i3	1001	CYC	C1A-C2A-C3A	-2.79	103.70	106.78
11	C2	201	CYC	CMC-C2C-C1C	-2.79	106.40	112.40
11	G8	201	CYC	C4D-CHA-C1A	2.79	132.14	128.81
11	E6	201	CYC	CMC-C2C-C1C	-2.78	106.40	112.40
11	G4	202	CYC	OC-C1C-C2C	-2.78	123.96	126.17
11	O7	1001	CYC	C4D-CHA-C1A	2.78	132.13	128.81
11	A2	301	CYC	CMC-C2C-C1C	-2.78	106.40	112.40
11	R1	202	CYC	CMB-C2B-C3B	2.78	133.67	126.12
11	X5	202	CYC	CMB-C2B-C3B	2.78	133.67	126.12
11	I7	1001	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
11	T7	1001	CYC	C1A-C2A-C3A	-2.78	103.70	106.78
11	N6	302	CYC	CMC-C2C-C1C	-2.78	106.40	112.40
11	K6	202	CYC	CMB-C2B-C1B	2.78	127.64	124.17
11	D7	1001	CYC	CAC-C3C-C2C	-2.78	107.31	114.26
11	Y7	1001	CYC	CAC-C3C-C2C	-2.78	107.31	114.26
11	I7	1001	CYC	CAC-C3C-C2C	-2.78	107.31	114.26
11	N2	302	CYC	CMC-C2C-C1C	-2.78	106.41	112.40
11	G1	202	CYC	CMB-C2B-C3B	2.78	133.67	126.12
11	Z2	202	CYC	CMC-C2C-C1C	-2.78	106.41	112.40
11	K6	201	CYC	CMC-C2C-C1C	-2.78	106.41	112.40
11	X6	201	CYC	CMC-C2C-C1C	-2.78	106.41	112.40
11	K2	202	CYC	CMB-C2B-C1B	2.78	127.64	124.17
11	C6	201	CYC	CMC-C2C-C1C	-2.78	106.41	112.40
11	Z5	202	CYC	CMB-C2B-C3B	2.78	133.66	126.12
11	K7	1001	CYC	CAC-C3C-C2C	-2.78	107.31	114.26
11	G2	201	CYC	CMB-C2B-C1B	2.78	127.64	124.17
11	P7	1001	CYC	CAC-C3C-C2C	-2.78	107.31	114.26
11	K1	201	CYC	C2A-C1A-NA	2.78	114.09	110.05
11	I4	203	CYC	C2A-C1A-NA	2.78	114.09	110.05
11	b3	1001	CYC	C1A-C2A-C3A	-2.78	103.71	106.78
11	N6	301	CYC	CMC-C2C-C1C	-2.78	106.41	112.40
11	U5	202	CYC	CMB-C2B-C3B	2.78	133.66	126.12
11	Z8	201	CYC	OC-C1C-C2C	-2.78	123.96	126.17
11	I8	203	CYC	C4D-CHA-C1A	2.78	132.13	128.81
11	U6	201	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
11	J7	1001	CYC	C4D-CHA-C1A	2.78	132.13	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	K5	201	CYC	C2A-C1A-NA	2.78	114.09	110.05
11	V7	1001	CYC	C4D-CHA-C1A	2.78	132.13	128.81
11	N2	301	CYC	CMC-C2C-C1C	-2.78	106.42	112.40
11	I1	202	CYC	CMB-C2B-C3B	2.78	133.65	126.12
11	T1	201	CYC	CMB-C2B-C3B	2.78	133.65	126.12
11	I6	202	CYC	CHA-C1A-NA	-2.78	124.98	128.83
11	E2	203	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
11	I5	202	CYC	CMB-C2B-C3B	2.77	133.65	126.12
11	a7	1001	CYC	CAC-C3C-C2C	-2.77	107.33	114.26
11	E2	201	CYC	CMC-C2C-C1C	-2.77	106.42	112.40
11	U1	202	CYC	CMB-C2B-C3B	2.77	133.65	126.12
11	u3	1001	CYC	C1A-C2A-C3A	-2.77	103.71	106.78
11	R7	1001	CYC	CAC-C3C-C2C	-2.77	107.33	114.26
11	S2	201	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
11	H5	201	CYC	C1B-NB-C4B	-2.77	107.14	110.67
11	G4	201	CYC	C4D-CHA-C1A	2.77	132.12	128.81
11	S7	1001	CYC	C4D-CHA-C1A	2.77	132.12	128.81
11	G5	201	CYC	C2A-C1A-NA	2.77	114.08	110.05
11	W7	1001	CYC	CAC-C3C-C2C	-2.77	107.33	114.26
11	X1	202	CYC	CMB-C2B-C3B	2.77	133.64	126.12
11	I3	1001	CYC	C1A-C2A-C3A	-2.77	103.72	106.78
11	T5	201	CYC	CMB-C2B-C3B	2.77	133.64	126.12
11	O4	201	CYC	C4D-CHA-C1A	2.77	132.12	128.81
11	O8	201	CYC	C4D-CHA-C1A	2.77	132.12	128.81
11	Z1	202	CYC	CMB-C2B-C3B	2.77	133.63	126.12
11	M8	201	CYC	C4D-CHA-C1A	2.77	132.12	128.81
11	F6	201	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
11	C7	1001	CYC	C4D-CHA-C1A	2.77	132.12	128.81
11	G1	201	CYC	C2A-C1A-NA	2.77	114.08	110.05
11	Y7	1001	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
11	V8	201	CYC	OC-C1C-C2C	-2.77	123.97	126.17
11	B7	1001	CYC	CAC-C3C-C2C	-2.77	107.35	114.26
11	T7	1001	CYC	CAC-C3C-C2C	-2.77	107.35	114.26
11	F7	1001	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
11	G5	202	CYC	CMB-C2B-C3B	2.77	133.63	126.12
11	P3	1001	CYC	C1A-C2A-C3A	-2.77	103.72	106.78
11	E4	201	CYC	OC-C1C-C2C	-2.77	123.97	126.17
11	D2	201	CYC	C1B-C2B-C3B	-2.76	104.99	107.87
11	Z4	201	CYC	OC-C1C-C2C	-2.76	123.97	126.17
11	C1	202	CYC	CMB-C2B-C1B	2.76	127.62	124.17
11	X7	1001	CYC	C4D-CHA-C1A	2.76	132.11	128.81
11	G4	201	CYC	C2A-C1A-NA	2.76	114.07	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	K7	1001	CYC	C1B-C2B-C3B	-2.76	104.99	107.87
11	K1	202	CYC	CMB-C2B-C3B	2.76	133.61	126.12
11	B7	1001	CYC	C1B-C2B-C3B	-2.76	104.99	107.87
11	F5	201	CYC	CMB-C2B-C1B	2.76	127.61	124.17
11	X2	202	CYC	CHA-C1A-NA	-2.76	125.00	128.83
11	X4	201	CYC	OC-C1C-C2C	-2.76	123.98	126.17
11	V4	201	CYC	OC-C1C-C2C	-2.76	123.98	126.17
11	C1	201	CYC	CMB-C2B-C3B	2.76	133.60	126.12
11	M1	202	CYC	CMB-C2B-C3B	2.76	133.60	126.12
11	C5	201	CYC	CMB-C2B-C3B	2.76	133.60	126.12
11	P1	202	CYC	CMB-C2B-C3B	2.75	133.59	126.12
11	J5	201	CYC	CMB-C2B-C1B	2.75	127.61	124.17
11	M5	202	CYC	CMB-C2B-C3B	2.75	133.59	126.12
11	D1	201	CYC	CMB-C2B-C3B	2.75	133.59	126.12
11	M4	202	CYC	OC-C1C-C2C	-2.75	123.98	126.17
11	T8	201	CYC	OC-C1C-C2C	-2.75	123.98	126.17
11	E4	203	CYC	C2A-C1A-NA	2.75	114.05	110.05
11	D4	201	CYC	C4D-CHA-C1A	2.75	132.10	128.81
11	X4	202	CYC	CHA-C1A-NA	-2.75	125.01	128.83
11	H7	1001	CYC	C4D-CHA-C1A	2.75	132.10	128.81
11	I4	203	CYC	C4D-CHA-C1A	2.75	132.09	128.81
11	I8	202	CYC	CHA-C1A-NA	-2.75	125.01	128.83
11	P5	202	CYC	CMB-C2B-C3B	2.75	133.58	126.12
11	a7	1001	CYC	C1B-C2B-C3B	-2.75	105.00	107.87
11	V5	202	CYC	CMB-C2B-C1B	2.75	127.60	124.17
11	I8	203	CYC	C2A-C1A-NA	2.75	114.05	110.05
11	X8	202	CYC	CHA-C1A-NA	-2.75	125.01	128.83
11	D5	201	CYC	CMB-C2B-C3B	2.75	133.58	126.12
11	Q2	201	CYC	C1B-C2B-C3B	-2.75	105.00	107.87
11	Q5	201	CYC	CMB-C2B-C1B	2.75	127.60	124.17
11	R8	201	CYC	CMB-C2B-C1B	2.75	127.60	124.17
11	Z2	201	CYC	C1B-C2B-C3B	-2.75	105.00	107.87
11	W6	201	CYC	C1B-C2B-C3B	-2.75	105.01	107.87
11	V1	202	CYC	CMB-C2B-C1B	2.74	127.59	124.17
11	R4	201	CYC	CMB-C2B-C1B	2.74	127.59	124.17
11	H5	201	CYC	CMB-C2B-C1B	2.74	127.59	124.17
11	F1	201	CYC	CMB-C2B-C1B	2.74	127.59	124.17
11	T2	202	CYC	CMB-C2B-C1B	2.74	127.59	124.17
11	I4	202	CYC	CHA-C1A-NA	-2.74	125.02	128.83
11	Y7	1001	CYC	C1A-C2A-C3A	-2.74	103.75	106.78
11	W7	1001	CYC	C1A-C2A-C3A	-2.74	103.75	106.78
11	M8	201	CYC	C1A-C2A-C3A	-2.74	103.75	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	J1	201	CYC	CMB-C2B-C1B	2.74	127.59	124.17
11	H2	201	CYC	C1B-C2B-C3B	-2.74	105.01	107.87
11	L5	201	CYC	CMB-C2B-C1B	2.74	127.59	124.17
11	G4	201	CYC	C1A-C2A-C3A	-2.74	103.75	106.78
11	E8	203	CYC	C2A-C1A-NA	2.74	114.03	110.05
11	X2	203	CYC	C1B-C2B-C3B	-2.74	105.01	107.87
11	W8	201	CYC	C2A-C1A-NA	2.74	114.03	110.05
11	L5	201	CYC	CHB-C4A-C3A	2.74	131.94	124.90
11	a7	1001	CYC	C1A-C2A-C3A	-2.74	103.75	106.78
11	A7	1001	CYC	C4D-CHA-C1A	2.74	132.08	128.81
11	F8	201	CYC	CHA-C1A-NA	-2.74	125.03	128.83
11	Z2	203	CYC	CMB-C2B-C1B	2.74	127.58	124.17
11	G8	201	CYC	C2A-C1A-NA	2.74	114.03	110.05
11	K5	202	CYC	CMB-C2B-C3B	2.74	133.55	126.12
11	R7	1001	CYC	C1A-C2A-C3A	-2.74	103.75	106.78
11	Q7	1001	CYC	C4D-CHA-C1A	2.74	132.08	128.81
11	H1	201	CYC	CMB-C2B-C1B	2.74	127.58	124.17
11	U5	201	CYC	CHB-C4A-C3A	2.74	131.94	124.90
11	F7	1001	CYC	C1A-C2A-C3A	-2.74	103.75	106.78
11	T4	201	CYC	OC-C1C-C2C	-2.74	124.00	126.17
11	U1	201	CYC	CHB-C4A-C3A	2.74	131.93	124.90
11	I7	1001	CYC	C1A-C2A-C3A	-2.73	103.76	106.78
11	Z6	202	CYC	CMB-C2B-C1B	2.73	127.58	124.17
11	L1	201	CYC	CHB-C4A-C3A	2.73	131.93	124.90
11	Z8	202	CYC	CMB-C2B-C1B	2.73	127.58	124.17
11	P6	202	CYC	CHA-C1A-NA	-2.73	125.03	128.83
11	L1	201	CYC	CMB-C2B-C1B	2.73	127.58	124.17
11	C5	202	CYC	CMB-C2B-C1B	2.73	127.58	124.17
11	K2	203	CYC	C1B-C2B-C3B	-2.73	105.02	107.87
11	X6	201	CYC	OC-C1C-C2C	-2.73	124.00	126.17
11	P8	203	CYC	CHB-C1B-NB	-2.73	120.19	126.06
11	G2	201	CYC	CHA-C1A-NA	-2.73	125.04	128.83
11	B6	201	CYC	C1B-C2B-C3B	-2.73	105.02	107.87
11	Q6	201	CYC	C1B-C2B-C3B	-2.73	105.02	107.87
11	U4	201	CYC	C2A-C1A-NA	2.73	114.02	110.05
11	O1	201	CYC	CHB-C4A-C3A	2.73	131.91	124.90
11	B2	201	CYC	C1B-C2B-C3B	-2.73	105.03	107.87
11	T7	1001	CYC	C1B-C2B-C3B	-2.73	105.03	107.87
11	L6	201	CYC	C1B-C2B-C3B	-2.73	105.03	107.87
11	Y6	201	CYC	C1B-C2B-C3B	-2.73	105.03	107.87
11	U8	201	CYC	C1A-C2A-C3A	-2.72	103.77	106.78
11	C4	201	CYC	CHA-C1A-NA	-2.72	125.05	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	W7	1001	CYC	C1B-C2B-C3B	-2.72	105.03	107.87
11	W4	201	CYC	C2A-C1A-NA	2.72	114.01	110.05
11	Q1	201	CYC	CMB-C2B-C1B	2.72	127.57	124.17
11	U5	201	CYC	CMB-C2B-C1B	2.72	127.57	124.17
11	O8	201	CYC	C1A-C2A-C3A	-2.72	103.77	106.78
11	S8	201	CYC	C2A-C1A-NA	2.72	114.01	110.05
11	I6	202	CYC	CMB-C2B-C1B	2.72	127.57	124.17
11	L4	201	CYC	C2A-C1A-NA	2.72	114.01	110.05
11	O4	201	CYC	C1A-C2A-C3A	-2.72	103.77	106.78
11	F4	201	CYC	CHA-C1A-NA	-2.72	125.05	128.83
11	U1	201	CYC	CMB-C2B-C1B	2.72	127.56	124.17
11	S4	201	CYC	CHB-C1B-NB	-2.72	120.22	126.06
11	M4	201	CYC	C1A-C2A-C3A	-2.72	103.77	106.78
11	K7	1001	CYC	C1A-C2A-C3A	-2.72	103.77	106.78
11	L8	201	CYC	C2A-C1A-NA	2.72	114.01	110.05
11	U8	201	CYC	C2A-C1A-NA	2.72	114.01	110.05
11	Y4	201	CYC	CHB-C1B-NB	-2.72	120.22	126.06
11	P4	203	CYC	CHB-C1B-NB	-2.72	120.22	126.06
11	V1	202	CYC	CHB-C4A-C3A	2.72	131.90	124.90
11	J1	201	CYC	CHB-C4A-C3A	2.72	131.89	124.90
11	I2	203	CYC	C1B-C2B-C3B	-2.72	105.03	107.87
11	M4	201	CYC	C2A-C1A-NA	2.72	114.00	110.05
11	G8	201	CYC	CHB-C1B-NB	-2.72	120.22	126.06
11	M8	201	CYC	CHB-C1B-NB	-2.72	120.22	126.06
11	O5	201	CYC	CHB-C4A-C3A	2.72	131.89	124.90
11	F5	201	CYC	CHB-C4A-C3A	2.72	131.89	124.90
11	X1	203	CYC	CHB-C4A-C3A	2.72	131.89	124.90
11	K2	202	CYC	CHA-C1A-NA	-2.72	125.06	128.83
11	Z6	202	CYC	CHA-C1A-NA	-2.72	125.06	128.83
11	H5	201	CYC	CHB-C4A-C3A	2.72	131.89	124.90
11	M4	201	CYC	CHB-C1B-NB	-2.72	120.22	126.06
11	K6	202	CYC	CHA-C1A-NA	-2.72	125.06	128.83
11	D8	201	CYC	CHB-C1B-NB	-2.72	120.23	126.06
11	C6	202	CYC	CHA-C1A-NA	-2.72	125.06	128.83
11	G4	201	CYC	CHB-C1B-NB	-2.72	120.23	126.06
11	V5	202	CYC	CHB-C4A-C3A	2.72	131.88	124.90
11	S1	201	CYC	CHB-C4A-C3A	2.71	131.88	124.90
11	U4	201	CYC	C1A-C2A-C3A	-2.71	103.78	106.78
11	Q1	201	CYC	CHB-C4A-C3A	2.71	131.88	124.90
11	Q5	201	CYC	CHB-C4A-C3A	2.71	131.88	124.90
11	S8	201	CYC	CHB-C1B-NB	-2.71	120.23	126.06
11	S5	201	CYC	CHB-C4A-C3A	2.71	131.88	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	V6	202	CYC	CHA-C1A-NA	-2.71	125.06	128.83
11	M7	1001	CYC	C1A-C2A-C3A	-2.71	103.78	106.78
11	X2	202	CYC	CMB-C2B-C1B	2.71	127.55	124.17
11	P8	203	CYC	C2A-C1A-NA	2.71	113.99	110.05
11	X1	203	CYC	CMB-C2B-C1B	2.71	127.55	124.17
11	B5	201	CYC	CMB-C2B-C1B	2.71	127.55	124.17
11	J5	201	CYC	CHB-C4A-C3A	2.71	131.87	124.90
11	K8	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
11	L4	201	CYC	CHB-C1B-NB	-2.71	120.24	126.06
11	X6	202	CYC	CMB-C2B-C1B	2.71	127.55	124.17
11	W4	201	CYC	C1A-C2A-C3A	-2.71	103.78	106.78
11	P8	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
11	T6	201	CYC	CHA-C1A-NA	-2.71	125.07	128.83
11	F1	201	CYC	CHB-C4A-C3A	2.71	131.87	124.90
11	T4	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
11	Z8	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
11	S4	201	CYC	C2A-C1A-NA	2.71	113.99	110.05
11	D8	201	CYC	C2A-C1A-NA	2.71	113.99	110.05
11	W2	201	CYC	C1B-C2B-C3B	-2.71	105.05	107.87
11	I8	203	CYC	C1A-C2A-C3A	-2.71	103.79	106.78
11	I8	202	CYC	CMB-C2B-C1B	2.71	127.55	124.17
11	X8	202	CYC	CMB-C2B-C1B	2.71	127.55	124.17
11	T2	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
11	Z4	202	CYC	CMB-C2B-C1B	2.71	127.55	124.17
11	W8	201	CYC	CHB-C1B-NB	-2.70	120.25	126.06
11	P4	202	CYC	CHA-C1A-NA	-2.70	125.08	128.83
11	R2	201	CYC	CMB-C2B-C1B	2.70	127.54	124.17
11	T8	202	CYC	CMB-C2B-C1B	2.70	127.54	124.17
11	U8	201	CYC	CHB-C1B-NB	-2.70	120.25	126.06
11	Y8	201	CYC	C2A-C1A-NA	2.70	113.98	110.05
11	T6	201	CYC	CMB-C2B-C1B	2.70	127.54	124.17
11	I4	203	CYC	C1A-C2A-C3A	-2.70	103.79	106.78
11	B1	201	CYC	CHB-C4A-C3A	2.70	131.85	124.90
11	O4	201	CYC	C2A-C1A-NA	2.70	113.98	110.05
11	E8	203	CYC	CHB-C1B-NB	-2.70	120.25	126.06
11	L8	201	CYC	CHB-C1B-NB	-2.70	120.26	126.06
11	X5	203	CYC	CHB-C4A-C3A	2.70	131.85	124.90
11	K4	202	CYC	CHA-C1A-NA	-2.70	125.08	128.83
11	M8	201	CYC	C2A-C1A-NA	2.70	113.98	110.05
11	E4	202	CYC	CMB-C2B-C1B	2.70	127.54	124.17
11	X5	203	CYC	CMB-C2B-C1B	2.70	127.54	124.17
11	E8	202	CYC	CMB-C2B-C1B	2.70	127.54	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	T2	201	CYC	C1B-C2B-C3B	-2.70	105.05	107.87
11	V2	201	CYC	OC-C1C-C2C	-2.70	124.03	126.17
11	X2	201	CYC	OC-C1C-C2C	-2.70	124.03	126.17
11	H1	201	CYC	CHB-C4A-C3A	2.70	131.84	124.90
11	D8	201	CYC	C1A-C2A-C3A	-2.70	103.80	106.78
11	E8	203	CYC	C1A-C2A-C3A	-2.70	103.80	106.78
11	G6	201	CYC	CHA-C1A-NA	-2.70	125.08	128.83
11	C1	202	CYC	CHB-C4A-C3A	2.70	131.84	124.90
11	N6	302	CYC	OC-C1C-C2C	-2.70	124.03	126.17
11	O8	201	CYC	CHB-C1B-NB	-2.70	120.26	126.06
11	B1	201	CYC	CMB-C2B-C1B	2.70	127.54	124.17
11	D4	201	CYC	C2A-C1A-NA	2.70	113.97	110.05
11	G8	201	CYC	C1A-C2A-C3A	-2.70	103.80	106.78
11	I2	202	CYC	CMB-C2B-C1B	2.70	127.53	124.17
11	H6	201	CYC	C1B-C2B-C3B	-2.70	105.06	107.87
11	C2	202	CYC	CHA-C1A-NA	-2.70	125.08	128.83
11	C8	201	CYC	CHA-C1A-NA	-2.70	125.08	128.83
11	E2	202	CYC	CMB-C2B-C1B	2.70	127.53	124.17
11	W8	201	CYC	C1A-C2A-C3A	-2.70	103.80	106.78
11	Y8	201	CYC	CHB-C1B-NB	-2.70	120.27	126.06
11	O1	201	CYC	CMB-C2B-C1B	2.70	127.53	124.17
11	S1	201	CYC	CMB-C2B-C1B	2.70	127.53	124.17
11	C5	202	CYC	CHB-C4A-C3A	2.70	131.83	124.90
11	O4	201	CYC	CHB-C1B-NB	-2.70	120.27	126.06
11	U4	201	CYC	CHB-C1B-NB	-2.70	120.27	126.06
11	D4	201	CYC	CHB-C1B-NB	-2.69	120.27	126.06
11	Z2	203	CYC	CHA-C1A-NA	-2.69	125.09	128.83
11	E4	203	CYC	C1A-C2A-C3A	-2.69	103.80	106.78
11	L8	201	CYC	C1A-C2A-C3A	-2.69	103.80	106.78
11	I4	202	CYC	CMB-C2B-C1B	2.69	127.53	124.17
11	P2	202	CYC	CHA-C1A-NA	-2.69	125.09	128.83
11	W4	201	CYC	CHB-C1B-NB	-2.69	120.28	126.06
11	R6	202	CYC	CBC-CAC-C3C	-2.69	107.48	113.47
11	V2	202	CYC	CHA-C1A-NA	-2.69	125.10	128.83
11	O8	201	CYC	C2A-C1A-NA	2.69	113.96	110.05
11	N6	301	CYC	OC-C1C-C2C	-2.69	124.04	126.17
11	P4	203	CYC	C2A-C1A-NA	2.69	113.96	110.05
11	I8	203	CYC	CHB-C1B-NB	-2.69	120.29	126.06
11	J6	201	CYC	C1B-C2B-C3B	-2.69	105.07	107.87
11	S8	201	CYC	C1A-C2A-C3A	-2.69	103.81	106.78
11	I4	203	CYC	CHB-C1B-NB	-2.69	120.29	126.06
11	P8	203	CYC	C1A-C2A-C3A	-2.68	103.81	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	O6	201	CYC	C1B-C2B-C3B	-2.68	105.07	107.87
11	B5	201	CYC	CHB-C4A-C3A	2.68	131.80	124.90
11	R4	201	CYC	CHA-C1A-NA	-2.68	125.10	128.83
11	D4	201	CYC	C1A-C2A-C3A	-2.68	103.81	106.78
11	Y8	201	CYC	C1A-C2A-C3A	-2.68	103.81	106.78
11	L4	201	CYC	C1A-C2A-C3A	-2.68	103.81	106.78
11	S4	201	CYC	C1A-C2A-C3A	-2.68	103.81	106.78
11	Y4	201	CYC	C2A-C1A-NA	2.68	113.95	110.05
11	T8	202	CYC	CHA-C1A-NA	-2.68	125.11	128.83
11	E4	203	CYC	CHB-C1B-NB	-2.68	120.30	126.06
11	Y4	201	CYC	C1A-C2A-C3A	-2.68	103.82	106.78
11	X4	202	CYC	CMB-C2B-C1B	2.68	127.51	124.17
11	S2	201	CYC	CBC-CAC-C3C	-2.68	107.50	113.47
11	F6	201	CYC	CBC-CAC-C3C	-2.68	107.50	113.47
11	L8	202	CYC	CHA-C1A-NA	-2.68	125.11	128.83
11	V8	202	CYC	CHA-C1A-NA	-2.68	125.11	128.83
11	O5	201	CYC	CMB-C2B-C1B	2.68	127.51	124.17
11	N2	302	CYC	OC-C1C-C2C	-2.68	124.05	126.17
11	J5	201	CYC	CMD-C2D-C3D	2.68	129.99	124.94
11	Z4	202	CYC	CHA-C1A-NA	-2.68	125.11	128.83
11	F6	201	CYC	OB-C4B-NB	-2.68	118.86	125.08
11	H2	201	CYC	CBC-CAC-C3C	-2.68	107.51	113.47
11	M2	202	CYC	CHA-C1A-NA	-2.68	125.12	128.83
11	X2	203	CYC	CBC-CAC-C3C	-2.67	107.52	113.47
11	M6	202	CYC	CHA-C1A-NA	-2.67	125.12	128.83
11	L7	1001	CYC	C2A-C1A-NA	2.67	113.94	110.05
11	R2	201	CYC	CHA-C1A-NA	-2.67	125.12	128.83
11	T4	202	CYC	CMB-C2B-C1B	2.67	127.50	124.17
11	R6	201	CYC	CMB-C2B-C1B	2.67	127.50	124.17
11	P6	202	CYC	CMB-C2B-C1B	2.67	127.50	124.17
11	N2	301	CYC	OC-C1C-C2C	-2.67	124.05	126.17
11	Y6	201	CYC	CBC-CAC-C3C	-2.67	107.53	113.47
11	E2	203	CYC	CBC-CAC-C3C	-2.67	107.53	113.47
11	B6	201	CYC	CBC-CAC-C3C	-2.67	107.53	113.47
11	E7	1001	CYC	C2A-C1A-NA	2.67	113.93	110.05
11	Z4	201	CYC	C4A-C3A-C2A	-2.67	103.45	106.51
11	H6	201	CYC	CBC-CAC-C3C	-2.67	107.53	113.47
11	B6	201	CYC	OB-C4B-NB	-2.66	118.88	125.08
11	E6	202	CYC	CMB-C2B-C1B	2.66	127.49	124.17
11	R6	201	CYC	CHA-C1A-NA	-2.66	125.13	128.83
11	F1	201	CYC	CMD-C2D-C3D	2.66	129.96	124.94
11	C5	202	CYC	CMD-C2D-C3D	2.66	129.96	124.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	E2	202	CYC	CHA-C1A-NA	-2.66	125.14	128.83
11	Z7	1001	CYC	C2A-C1A-NA	2.66	113.92	110.05
11	Z2	201	CYC	CBC-CAC-C3C	-2.66	107.54	113.47
11	S5	201	CYC	CMB-C2B-C1B	2.66	127.49	124.17
11	F5	201	CYC	CMD-C2D-C3D	2.66	129.96	124.94
11	I2	203	CYC	CBC-CAC-C3C	-2.66	107.55	113.47
11	Q7	1001	CYC	C2A-C1A-NA	2.66	113.92	110.05
11	Q2	201	CYC	CBC-CAC-C3C	-2.66	107.55	113.47
11	J6	201	CYC	CBC-CAC-C3C	-2.66	107.55	113.47
11	K2	203	CYC	CBC-CAC-C3C	-2.66	107.55	113.47
11	O5	201	CYC	CMD-C2D-C3D	2.66	129.95	124.94
11	V5	202	CYC	CMD-C2D-C3D	2.66	129.95	124.94
11	O7	1001	CYC	C2A-C1A-NA	2.66	113.92	110.05
11	H2	201	CYC	OB-C4B-NB	-2.66	118.90	125.08
11	C1	202	CYC	CMD-C2D-C3D	2.66	129.95	124.94
11	B2	201	CYC	CBC-CAC-C3C	-2.66	107.55	113.47
11	W2	201	CYC	CBC-CAC-C3C	-2.66	107.55	113.47
11	E2	201	CYC	OC-C1C-C2C	-2.66	124.06	126.17
11	J1	201	CYC	CMD-C2D-C3D	2.66	129.95	124.94
11	R8	201	CYC	CHA-C1A-NA	-2.66	125.14	128.83
11	E7	1001	CYC	C4A-C3A-C2A	-2.66	103.46	106.51
11	L6	201	CYC	CBC-CAC-C3C	-2.66	107.56	113.47
11	W6	201	CYC	CBC-CAC-C3C	-2.66	107.56	113.47
11	K6	201	CYC	OC-C1C-C2C	-2.65	124.06	126.17
11	W2	201	CYC	OB-C4B-NB	-2.65	118.91	125.08
11	M8	202	CYC	C4A-C3A-C2A	-2.65	103.46	106.51
11	Q1	201	CYC	CMD-C2D-C3D	2.65	129.94	124.94
11	J7	1001	CYC	C2A-C1A-NA	2.65	113.91	110.05
11	T2	201	CYC	OB-C4B-NB	-2.65	118.91	125.08
11	Z8	201	CYC	C4A-C3A-C2A	-2.65	103.46	106.51
11	V4	202	CYC	CHA-C1A-NA	-2.65	125.15	128.83
11	U6	201	CYC	CBC-CAC-C3C	-2.65	107.56	113.47
11	Q6	201	CYC	CBC-CAC-C3C	-2.65	107.56	113.47
11	B2	201	CYC	OB-C4B-NB	-2.65	118.92	125.08
11	E6	202	CYC	CHA-C1A-NA	-2.65	125.15	128.83
11	V1	202	CYC	CMD-C2D-C3D	2.65	129.94	124.94
11	V8	201	CYC	C4A-C3A-C2A	-2.65	103.47	106.51
11	C4	201	CYC	CMB-C2B-C1B	2.65	127.47	124.17
11	T2	201	CYC	CBC-CAC-C3C	-2.65	107.58	113.47
11	H7	1001	CYC	C2A-C1A-NA	2.65	113.90	110.05
11	E2	203	CYC	OB-C4B-NB	-2.64	118.93	125.08
11	P4	203	CYC	C1A-C2A-C3A	-2.64	103.86	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	V3	201	CYC	C2A-C1A-NA	2.64	113.89	110.05
11	J6	201	CYC	OB-C4B-NB	-2.64	118.93	125.08
11	H6	201	CYC	OB-C4B-NB	-2.64	118.94	125.08
11	O6	201	CYC	OB-C4B-NB	-2.64	118.94	125.08
11	M4	202	CYC	C4A-C3A-C2A	-2.64	103.47	106.51
11	I2	203	CYC	OB-C4B-NB	-2.64	118.94	125.08
11	S2	201	CYC	OB-C4B-NB	-2.64	118.94	125.08
11	W6	201	CYC	OB-C4B-NB	-2.64	118.94	125.08
11	R5	201	CYC	O2A-CGA-CBA	2.64	122.52	114.03
11	X7	1001	CYC	C2A-C1A-NA	2.64	113.89	110.05
11	V3	201	CYC	C1B-CHB-C4A	2.64	134.53	128.08
11	R6	202	CYC	OB-C4B-NB	-2.64	118.94	125.08
11	S7	1001	CYC	C4A-C3A-C2A	-2.64	103.48	106.51
11	L4	202	CYC	CHA-C1A-NA	-2.64	125.16	128.83
11	X5	203	CYC	CMD-C2D-C3D	2.64	129.92	124.94
11	P6	201	CYC	OC-C1C-C2C	-2.64	124.07	126.17
11	V7	1001	CYC	C2A-C1A-NA	2.64	113.89	110.05
11	O1	201	CYC	CMD-C2D-C3D	2.64	129.92	124.94
11	P2	202	CYC	CMB-C2B-C1B	2.64	127.46	124.17
11	S7	1001	CYC	C2A-C1A-NA	2.64	113.89	110.05
11	S1	201	CYC	CMD-C2D-C3D	2.64	129.92	124.94
11	Q5	201	CYC	CMD-C2D-C3D	2.64	129.92	124.94
11	O6	201	CYC	CBC-CAC-C3C	-2.64	107.59	113.47
11	U5	201	CYC	CMD-C2D-C3D	2.64	129.91	124.94
11	V4	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.51
11	U6	201	CYC	OB-C4B-NB	-2.64	118.95	125.08
11	m3	201	CYC	C1B-CHB-C4A	2.64	134.52	128.08
11	m3	201	CYC	C2A-C1A-NA	2.64	113.88	110.05
11	K4	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.51
11	L6	201	CYC	OB-C4B-NB	-2.64	118.95	125.08
11	D2	201	CYC	CBC-CAC-C3C	-2.64	107.60	113.47
11	G8	202	CYC	C4A-C3A-C2A	-2.64	103.48	106.51
11	K8	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.51
11	X1	203	CYC	CMD-C2D-C3D	2.64	129.91	124.94
11	C6	203	CYC	CBC-CAC-C3C	-2.63	107.60	113.47
11	H1	201	CYC	CMD-C2D-C3D	2.63	129.91	124.94
11	Q2	201	CYC	OB-C4B-NB	-2.63	118.96	125.08
11	C2	202	CYC	CMB-C2B-C1B	2.63	127.45	124.17
11	R1	201	CYC	O2A-CGA-CBA	2.63	122.49	114.03
11	Z2	201	CYC	OB-C4B-NB	-2.63	118.96	125.08
11	S5	201	CYC	CMD-C2D-C3D	2.63	129.91	124.94
11	K2	201	CYC	OC-C1C-C2C	-2.63	124.08	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	A7	1001	CYC	C2A-C1A-NA	2.63	113.88	110.05
11	Y6	201	CYC	OB-C4B-NB	-2.63	118.96	125.08
11	C7	1001	CYC	C2A-C1A-NA	2.63	113.88	110.05
11	C6	201	CYC	OC-C1C-C2C	-2.63	124.08	126.17
11	I8	201	CYC	C4A-C3A-C2A	-2.63	103.49	106.51
11	V3	201	CYC	C1A-C2A-C3A	-2.63	103.87	106.78
11	K2	203	CYC	OB-C4B-NB	-2.63	118.96	125.08
11	E4	202	CYC	CHA-C1A-NA	-2.63	125.18	128.83
11	U1	201	CYC	CMD-C2D-C3D	2.63	129.90	124.94
11	I6	201	CYC	OC-C1C-C2C	-2.63	124.08	126.17
11	Z2	202	CYC	OC-C1C-C2C	-2.63	124.08	126.17
11	I4	201	CYC	C4A-C3A-C2A	-2.63	103.49	106.51
11	N5	301	CYC	O2A-CGA-CBA	2.63	122.47	114.03
11	P4	201	CYC	C4A-C3A-C2A	-2.63	103.49	106.51
11	B1	201	CYC	CMD-C2D-C3D	2.63	129.90	124.94
11	B5	201	CYC	CMD-C2D-C3D	2.63	129.90	124.94
11	D2	201	CYC	OB-C4B-NB	-2.63	118.97	125.08
11	G1	201	CYC	O2A-CGA-CBA	2.63	122.47	114.03
11	Q6	201	CYC	OB-C4B-NB	-2.63	118.98	125.08
11	G5	201	CYC	O2A-CGA-CBA	2.63	122.46	114.03
11	J7	1001	CYC	C4A-C3A-C2A	-2.62	103.49	106.51
11	C2	201	CYC	OC-C1C-C2C	-2.62	124.09	126.17
11	A1	301	CYC	O2A-CGA-CBA	2.62	122.46	114.03
11	I1	201	CYC	O2A-CGA-CBA	2.62	122.46	114.03
11	A1	302	CYC	O2A-CGA-CBA	2.62	122.46	114.03
11	X2	203	CYC	OB-C4B-NB	-2.62	118.98	125.08
11	I5	201	CYC	O2A-CGA-CBA	2.62	122.46	114.03
11	P4	202	CYC	CMB-C2B-C1B	2.62	127.44	124.17
11	P1	201	CYC	O2A-CGA-CBA	2.62	122.45	114.03
11	A5	301	CYC	O2A-CGA-CBA	2.62	122.45	114.03
11	H5	201	CYC	CMD-C2D-C3D	2.62	129.88	124.94
11	P5	201	CYC	O2A-CGA-CBA	2.62	122.45	114.03
11	X5	201	CYC	O2A-CGA-CBA	2.62	122.45	114.03
11	M6	201	CYC	OC-C1C-C2C	-2.62	124.09	126.17
11	V6	201	CYC	OC-C1C-C2C	-2.62	124.09	126.17
11	Z1	201	CYC	O2A-CGA-CBA	2.62	122.45	114.03
11	C8	201	CYC	CMB-C2B-C1B	2.62	127.44	124.17
11	X4	201	CYC	C2C-C1C-NC	2.62	110.53	108.27
11	N1	301	CYC	O2A-CGA-CBA	2.62	122.44	114.03
11	L5	201	CYC	CMD-C2D-C3D	2.62	129.88	124.94
11	Z6	201	CYC	OC-C1C-C2C	-2.62	124.09	126.17
11	C6	203	CYC	OB-C4B-NB	-2.62	118.99	125.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	A4	301	CYC	C4A-C3A-C2A	-2.62	103.50	106.51
11	E6	201	CYC	OC-C1C-C2C	-2.62	124.09	126.17
11	A7	1001	CYC	C4A-C3A-C2A	-2.62	103.50	106.51
11	Z5	201	CYC	O2A-CGA-CBA	2.62	122.44	114.03
11	M1	201	CYC	O2A-CGA-CBA	2.62	122.44	114.03
11	Q7	1001	CYC	C4A-C3A-C2A	-2.62	103.50	106.51
11	O7	1001	CYC	C4A-C3A-C2A	-2.61	103.51	106.51
11	K5	201	CYC	O2A-CGA-CBA	2.61	122.43	114.03
11	L1	201	CYC	CMD-C2D-C3D	2.61	129.87	124.94
11	X1	201	CYC	O2A-CGA-CBA	2.61	122.42	114.03
11	C7	1001	CYC	C4A-C3A-C2A	-2.61	103.51	106.51
11	V5	201	CYC	O2A-CGA-CBA	2.61	122.42	114.03
11	E4	201	CYC	C2C-C1C-NC	2.61	110.53	108.27
11	V6	202	CYC	CMB-C2B-C1B	2.61	127.43	124.17
11	E8	201	CYC	C4A-C3A-C2A	-2.61	103.51	106.51
11	K1	201	CYC	O2A-CGA-CBA	2.61	122.42	114.03
11	V1	201	CYC	O2A-CGA-CBA	2.61	122.42	114.03
11	N4	301	CYC	C2C-C1C-NC	2.61	110.52	108.27
11	C6	202	CYC	CMB-C2B-C1B	2.61	127.42	124.17
11	V4	202	CYC	CMB-C2B-C1B	2.61	127.42	124.17
11	A5	302	CYC	O2A-CGA-CBA	2.61	122.41	114.03
11	X8	201	CYC	C4A-C3A-C2A	-2.61	103.52	106.51
11	N4	301	CYC	C4A-C3A-C2A	-2.60	103.52	106.51
11	P4	201	CYC	C2C-C1C-NC	2.60	110.52	108.27
11	M2	202	CYC	CMB-C2B-C1B	2.60	127.42	124.17
11	A8	301	CYC	C4A-C3A-C2A	-2.60	103.52	106.51
11	P2	201	CYC	OC-C1C-C2C	-2.60	124.10	126.17
11	I2	201	CYC	OC-C1C-C2C	-2.60	124.10	126.17
11	M5	201	CYC	O2A-CGA-CBA	2.60	122.39	114.03
11	E4	201	CYC	C4A-C3A-C2A	-2.60	103.52	106.51
11	V2	202	CYC	CMB-C2B-C1B	2.60	127.41	124.17
11	a7	1001	CYC	CAD-CBD-CGD	-2.60	106.48	113.76
11	N8	301	CYC	C2C-C1C-NC	2.60	110.51	108.27
11	V7	1001	CYC	C4A-C3A-C2A	-2.60	103.53	106.51
11	N8	301	CYC	C4A-C3A-C2A	-2.60	103.53	106.51
11	T8	201	CYC	C4A-C3A-C2A	-2.60	103.53	106.51
11	E8	202	CYC	CHA-C1A-NA	-2.60	125.23	128.83
11	P8	201	CYC	C4A-C3A-C2A	-2.60	103.53	106.51
11	L8	202	CYC	CMB-C2B-C1B	2.59	127.41	124.17
11	P8	202	CYC	CMB-C2B-C1B	2.59	127.41	124.17
11	Y7	1001	CYC	CAD-CBD-CGD	-2.59	106.49	113.76
11	G4	202	CYC	C4A-C3A-C2A	-2.59	103.53	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	X7	1001	CYC	C4A-C3A-C2A	-2.59	103.53	106.51
11	X4	201	CYC	C4A-C3A-C2A	-2.59	103.53	106.51
11	T7	1001	CYC	CAD-CBD-CGD	-2.59	106.50	113.76
11	V8	202	CYC	CMB-C2B-C1B	2.59	127.40	124.17
11	G4	202	CYC	C2C-C1C-NC	2.59	110.50	108.27
11	E8	201	CYC	C2C-C1C-NC	2.59	110.50	108.27
11	I7	1001	CYC	CAD-CBD-CGD	-2.59	106.51	113.76
11	Z7	1001	CYC	C4A-C3A-C2A	-2.59	103.54	106.51
11	P7	1001	CYC	CAD-CBD-CGD	-2.59	106.51	113.76
11	X8	201	CYC	C2C-C1C-NC	2.58	110.50	108.27
11	I4	201	CYC	C2C-C1C-NC	2.58	110.50	108.27
11	A2	301	CYC	OC-C1C-C2C	-2.58	124.12	126.17
11	A6	301	CYC	OC-C1C-C2C	-2.58	124.12	126.17
11	T4	201	CYC	C2C-C1C-NC	2.58	110.50	108.27
11	P8	201	CYC	C2C-C1C-NC	2.58	110.50	108.27
11	K7	1001	CYC	CAD-CBD-CGD	-2.58	106.53	113.76
11	R7	1001	CYC	CAD-CBD-CGD	-2.58	106.53	113.76
11	L4	202	CYC	CMB-C2B-C1B	2.58	127.39	124.17
11	F7	1001	CYC	CAD-CBD-CGD	-2.58	106.53	113.76
11	D7	1001	CYC	CAD-CBD-CGD	-2.58	106.54	113.76
11	G8	202	CYC	C2C-C1C-NC	2.58	110.49	108.27
11	W7	1001	CYC	CAD-CBD-CGD	-2.58	106.54	113.76
11	B7	1001	CYC	CAD-CBD-CGD	-2.58	106.54	113.76
11	M7	1001	CYC	CAD-CBD-CGD	-2.57	106.55	113.76
11	T4	201	CYC	C4A-C3A-C2A	-2.57	103.56	106.51
11	H7	1001	CYC	C4A-C3A-C2A	-2.57	103.56	106.51
11	C7	1001	CYC	C2C-C1C-NC	2.57	110.49	108.27
11	M2	201	CYC	OC-C1C-C2C	-2.57	124.13	126.17
11	K8	201	CYC	C2C-C1C-NC	2.57	110.49	108.27
11	C6	201	CYC	CHB-C1B-NB	-2.57	120.55	126.06
11	M4	202	CYC	C2C-C1C-NC	2.56	110.48	108.27
11	A8	301	CYC	C2C-C1C-NC	2.56	110.48	108.27
11	m3	201	CYC	C1A-C2A-C3A	-2.56	103.94	106.78
11	P3	1001	CYC	CMC-C2C-C1C	-2.56	106.88	112.40
11	i3	1001	CYC	CMC-C2C-C1C	-2.56	106.88	112.40
11	M6	202	CYC	CMB-C2B-C1B	2.56	127.37	124.17
11	V2	201	CYC	CHB-C1B-NB	-2.56	120.56	126.06
11	R3	1001	CYC	CMC-C2C-C1C	-2.56	106.88	112.40
11	I3	1001	CYC	CMC-C2C-C1C	-2.56	106.88	112.40
11	Z2	202	CYC	CHB-C1B-NB	-2.56	120.56	126.06
11	K4	201	CYC	C2C-C1C-NC	2.56	110.48	108.27
11	K3	1001	CYC	CMC-C2C-C1C	-2.56	106.89	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	N3	1001	CYC	CMC-C2C-C1C	-2.56	106.89	112.40
11	o3	1001	CYC	CMC-C2C-C1C	-2.56	106.89	112.40
11	C2	201	CYC	CHB-C1B-NB	-2.56	120.57	126.06
11	I2	201	CYC	CHB-C1B-NB	-2.56	120.57	126.06
11	I6	201	CYC	CHB-C1B-NB	-2.56	120.57	126.06
11	O7	1001	CYC	C2C-C1C-NC	2.56	110.48	108.27
11	T8	201	CYC	C2C-C1C-NC	2.56	110.48	108.27
11	Q5	201	CYC	C1B-C2B-C3B	-2.55	105.20	107.87
11	L7	1001	CYC	C4A-C3A-C2A	-2.55	103.58	106.51
11	M8	202	CYC	C2C-C1C-NC	2.55	110.47	108.27
11	A4	301	CYC	C2C-C1C-NC	2.55	110.47	108.27
11	Q7	1001	CYC	C2C-C1C-NC	2.55	110.47	108.27
11	q3	1001	CYC	CMC-C2C-C1C	-2.55	106.91	112.40
11	V6	201	CYC	CHB-C1B-NB	-2.55	120.59	126.06
11	Z6	201	CYC	CHB-C1B-NB	-2.55	120.59	126.06
11	V8	201	CYC	C2C-C1C-NC	2.55	110.47	108.27
11	d3	1001	CYC	CMC-C2C-C1C	-2.55	106.91	112.40
11	N6	302	CYC	CHB-C1B-NB	-2.55	120.59	126.06
11	X2	201	CYC	CHB-C1B-NB	-2.55	120.59	126.06
11	X6	201	CYC	CHB-C1B-NB	-2.55	120.59	126.06
11	G3	1001	CYC	CMC-C2C-C1C	-2.55	106.92	112.40
11	Z3	1001	CYC	CMC-C2C-C1C	-2.55	106.92	112.40
11	w3	1001	CYC	CMC-C2C-C1C	-2.55	106.92	112.40
11	P2	201	CYC	CHB-C1B-NB	-2.55	120.59	126.06
11	I8	201	CYC	C2C-C1C-NC	2.54	110.47	108.27
11	A6	301	CYC	CHB-C1B-NB	-2.54	120.60	126.06
11	k3	1001	CYC	CMC-C2C-C1C	-2.54	106.92	112.40
11	A2	301	CYC	CHB-C1B-NB	-2.54	120.60	126.06
11	L5	201	CYC	C1B-C2B-C3B	-2.54	105.22	107.87
11	y3	1001	CYC	CMC-C2C-C1C	-2.54	106.93	112.40
11	N2	302	CYC	CHB-C1B-NB	-2.54	120.61	126.06
11	P6	201	CYC	CHB-C1B-NB	-2.54	120.61	126.06
11	N6	301	CYC	CHB-C1B-NB	-2.54	120.61	126.06
11	Z8	201	CYC	C2C-C1C-NC	2.54	110.46	108.27
11	b3	1001	CYC	CMC-C2C-C1C	-2.54	106.93	112.40
11	X3	1001	CYC	CMC-C2C-C1C	-2.54	106.94	112.40
11	K6	201	CYC	CHB-C1B-NB	-2.54	120.61	126.06
11	M6	201	CYC	CHB-C1B-NB	-2.54	120.61	126.06
11	J7	1001	CYC	C2C-C1C-NC	2.53	110.46	108.27
11	u3	1001	CYC	CMC-C2C-C1C	-2.53	106.94	112.40
11	E7	1001	CYC	C2C-C1C-NC	2.53	110.46	108.27
11	E2	201	CYC	CHB-C1B-NB	-2.53	120.62	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Q3	1001	CYC	C2A-C1A-NA	2.53	113.73	110.05
11	N2	301	CYC	CHB-C1B-NB	-2.53	120.62	126.06
11	T3	1001	CYC	CMC-C2C-C1C	-2.53	106.95	112.40
11	M2	201	CYC	CHB-C1B-NB	-2.53	120.62	126.06
11	f3	1001	CYC	CMC-C2C-C1C	-2.53	106.95	112.40
11	K2	201	CYC	CHB-C1B-NB	-2.53	120.63	126.06
11	s3	1001	CYC	CMC-C2C-C1C	-2.53	106.95	112.40
11	E6	201	CYC	CHB-C1B-NB	-2.53	120.63	126.06
11	L7	1001	CYC	C2C-C1C-NC	2.53	110.45	108.27
11	M5	201	CYC	O1A-CGA-CBA	-2.53	114.96	123.08
11	M1	201	CYC	O1A-CGA-CBA	-2.53	114.97	123.08
11	Z4	201	CYC	C2C-C1C-NC	2.52	110.45	108.27
11	H7	1001	CYC	C2C-C1C-NC	2.52	110.45	108.27
11	I5	201	CYC	O1A-CGA-CBA	-2.52	114.98	123.08
11	R5	201	CYC	O1A-CGA-CBA	-2.52	114.99	123.08
11	I1	201	CYC	O1A-CGA-CBA	-2.52	114.99	123.08
11	Z7	1001	CYC	C2C-C1C-NC	2.51	110.44	108.27
11	G5	201	CYC	O1A-CGA-CBA	-2.51	115.00	123.08
11	Z5	201	CYC	O1A-CGA-CBA	-2.51	115.00	123.08
11	R1	201	CYC	O1A-CGA-CBA	-2.51	115.01	123.08
11	V4	201	CYC	C2C-C1C-NC	2.51	110.44	108.27
11	V7	1001	CYC	C2C-C1C-NC	2.51	110.44	108.27
11	I8	203	CYC	OC-C1C-C2C	-2.51	124.18	126.17
11	Y8	201	CYC	C1B-CHB-C4A	-2.51	121.95	128.08
11	A7	1001	CYC	C2C-C1C-NC	2.51	110.44	108.27
11	H1	201	CYC	C1B-C2B-C3B	-2.51	105.25	107.87
11	L1	201	CYC	C1B-C2B-C3B	-2.51	105.25	107.87
11	Q1	201	CYC	C1B-C2B-C3B	-2.51	105.25	107.87
11	g3	1001	CYC	C2A-C1A-NA	2.51	113.70	110.05
11	G1	201	CYC	O1A-CGA-CBA	-2.51	115.02	123.08
11	K5	201	CYC	CHB-C1B-NB	-2.51	120.67	126.06
11	G4	201	CYC	OC-C1C-C2C	-2.51	124.18	126.17
11	I8	203	CYC	C1B-CHB-C4A	-2.51	121.96	128.08
11	A5	302	CYC	CHB-C1B-NB	-2.51	120.68	126.06
11	A5	301	CYC	O1A-CGA-CBA	-2.51	115.03	123.08
11	C1	202	CYC	C1B-C2B-C3B	-2.51	105.26	107.87
11	X7	1001	CYC	C2C-C1C-NC	2.51	110.43	108.27
11	A1	302	CYC	CHB-C1B-NB	-2.51	120.68	126.06
11	R5	201	CYC	CHB-C1B-NB	-2.51	120.68	126.06
11	W4	201	CYC	C1B-CHB-C4A	-2.50	121.96	128.08
11	Z1	201	CYC	O1A-CGA-CBA	-2.50	115.03	123.08
11	S7	1001	CYC	C2C-C1C-NC	2.50	110.43	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	V1	201	CYC	O1A-CGA-CBA	-2.50	115.04	123.08
11	F5	201	CYC	C1B-C2B-C3B	-2.50	105.26	107.87
11	M1	201	CYC	CHB-C1B-NB	-2.50	120.69	126.06
11	V1	202	CYC	C1B-C2B-C3B	-2.50	105.26	107.87
11	P1	201	CYC	O1A-CGA-CBA	-2.50	115.05	123.08
11	L4	201	CYC	C1B-CHB-C4A	-2.50	121.97	128.08
11	D4	201	CYC	OC-C1C-C2C	-2.50	124.19	126.17
11	U8	201	CYC	C1B-CHB-C4A	-2.50	121.98	128.08
11	W8	201	CYC	C1B-CHB-C4A	-2.50	121.98	128.08
11	X1	201	CYC	O1A-CGA-CBA	-2.50	115.06	123.08
11	M5	201	CYC	CHB-C1B-NB	-2.50	120.70	126.06
11	A1	301	CYC	O1A-CGA-CBA	-2.50	115.06	123.08
11	U4	201	CYC	C1B-CHB-C4A	-2.50	121.98	128.08
11	R1	201	CYC	CHB-C1B-NB	-2.50	120.70	126.06
11	A1	301	CYC	CHB-C1B-NB	-2.50	120.70	126.06
11	V5	201	CYC	O1A-CGA-CBA	-2.49	115.07	123.08
11	Y4	201	CYC	C1B-CHB-C4A	-2.49	121.99	128.08
11	H5	201	CYC	C1B-C2B-C3B	-2.49	105.27	107.87
11	I4	203	CYC	C1B-CHB-C4A	-2.49	121.99	128.08
11	A5	301	CYC	CHB-C1B-NB	-2.49	120.70	126.06
11	G5	201	CYC	CHB-C1B-NB	-2.49	120.70	126.06
11	K5	201	CYC	O1A-CGA-CBA	-2.49	115.07	123.08
11	P5	201	CYC	O1A-CGA-CBA	-2.49	115.07	123.08
11	X5	201	CYC	O1A-CGA-CBA	-2.49	115.07	123.08
11	I5	201	CYC	CHB-C1B-NB	-2.49	120.70	126.06
11	Z5	201	CYC	CHB-C1B-NB	-2.49	120.70	126.06
11	K1	201	CYC	O1A-CGA-CBA	-2.49	115.07	123.08
11	D4	201	CYC	C1B-CHB-C4A	-2.49	121.99	128.08
11	L8	201	CYC	C1B-CHB-C4A	-2.49	121.99	128.08
11	O8	201	CYC	C1B-CHB-C4A	-2.49	121.99	128.08
11	N5	301	CYC	O1A-CGA-CBA	-2.49	115.08	123.08
11	G1	201	CYC	CHB-C1B-NB	-2.49	120.71	126.06
11	A1	302	CYC	O1A-CGA-CBA	-2.49	115.08	123.08
11	D8	201	CYC	C1B-CHB-C4A	-2.49	122.00	128.08
11	J5	201	CYC	C1B-C2B-C3B	-2.49	105.27	107.87
11	G4	201	CYC	C1B-CHB-C4A	-2.49	122.00	128.08
11	G8	201	CYC	OC-C1C-C2C	-2.49	124.19	126.17
11	I1	201	CYC	CHB-C1B-NB	-2.49	120.71	126.06
11	P8	203	CYC	C1B-CHB-C4A	-2.49	122.00	128.08
11	J1	201	CYC	C1B-C2B-C3B	-2.49	105.27	107.87
11	Z1	201	CYC	CHB-C1B-NB	-2.49	120.72	126.06
11	E4	203	CYC	C1B-CHB-C4A	-2.49	122.00	128.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	P4	203	CYC	C1B-CHB-C4A	-2.49	122.00	128.08
11	G8	201	CYC	C1B-CHB-C4A	-2.49	122.01	128.08
11	K1	201	CYC	CHB-C1B-NB	-2.49	120.72	126.06
11	C5	202	CYC	C1B-C2B-C3B	-2.49	105.28	107.87
11	V5	202	CYC	C1B-C2B-C3B	-2.49	105.28	107.87
11	E8	203	CYC	C1B-CHB-C4A	-2.49	122.01	128.08
11	M4	201	CYC	C1B-CHB-C4A	-2.49	122.01	128.08
11	X5	201	CYC	CHB-C1B-NB	-2.49	120.72	126.06
11	M8	201	CYC	C1B-CHB-C4A	-2.48	122.01	128.08
11	X6	201	CYC	CHB-C4A-C3A	2.48	131.29	124.90
11	A5	302	CYC	O1A-CGA-CBA	-2.48	115.10	123.08
11	N1	301	CYC	O1A-CGA-CBA	-2.48	115.10	123.08
11	M6	201	CYC	CHB-C4A-C3A	2.48	131.28	124.90
11	V5	201	CYC	CHB-C1B-NB	-2.48	120.73	126.06
11	X2	201	CYC	CHB-C4A-C3A	2.48	131.28	124.90
11	I4	203	CYC	OC-C1C-C2C	-2.48	124.20	126.17
11	C6	201	CYC	CHB-C4A-C3A	2.48	131.28	124.90
11	O4	201	CYC	C1B-CHB-C4A	-2.48	122.02	128.08
11	N1	301	CYC	CHB-C1B-NB	-2.48	120.73	126.06
11	V1	201	CYC	CHB-C1B-NB	-2.48	120.73	126.06
11	X1	201	CYC	CHB-C1B-NB	-2.48	120.73	126.06
11	Z6	201	CYC	CHB-C4A-C3A	2.48	131.28	124.90
11	C2	201	CYC	CHB-C4A-C3A	2.48	131.28	124.90
11	O1	201	CYC	C1B-C2B-C3B	-2.48	105.29	107.87
11	N2	301	CYC	CHB-C4A-C3A	2.48	131.27	124.90
11	S8	201	CYC	C1B-CHB-C4A	-2.48	122.03	128.08
11	Z2	202	CYC	CHB-C4A-C3A	2.48	131.27	124.90
11	K2	201	CYC	CHB-C4A-C3A	2.48	131.27	124.90
11	P4	203	CYC	OC-C1C-C2C	-2.47	124.21	126.17
11	K6	201	CYC	CHB-C4A-C3A	2.47	131.26	124.90
11	E2	201	CYC	CHB-C4A-C3A	2.47	131.26	124.90
11	D8	201	CYC	OC-C1C-C2C	-2.47	124.21	126.17
11	F1	201	CYC	C1B-C2B-C3B	-2.47	105.29	107.87
11	I6	201	CYC	CHB-C4A-C3A	2.47	131.25	124.90
11	V2	201	CYC	CHB-C4A-C3A	2.47	131.25	124.90
11	N6	301	CYC	CHB-C4A-C3A	2.47	131.25	124.90
11	P6	201	CYC	CHB-C4A-C3A	2.47	131.25	124.90
11	N5	301	CYC	CHB-C1B-NB	-2.47	120.76	126.06
11	P2	201	CYC	CHB-C4A-C3A	2.47	131.24	124.90
11	U4	201	CYC	OC-C1C-C2C	-2.47	124.21	126.17
11	W4	201	CYC	OC-C1C-C2C	-2.47	124.21	126.17
11	P5	201	CYC	CHB-C1B-NB	-2.47	120.76	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	M2	201	CYC	CHB-C4A-C3A	2.47	131.24	124.90
11	S4	201	CYC	C1B-CHB-C4A	-2.47	122.06	128.08
11	L4	201	CYC	OC-C1C-C2C	-2.47	124.21	126.17
11	P1	201	CYC	CHB-C1B-NB	-2.46	120.77	126.06
11	X1	203	CYC	C1B-C2B-C3B	-2.46	105.30	107.87
11	V6	201	CYC	CHB-C4A-C3A	2.46	131.23	124.90
11	N2	302	CYC	CHB-C4A-C3A	2.46	131.23	124.90
11	V3	201	CYC	CAA-C2A-C1A	2.46	129.36	125.01
11	O5	201	CYC	C1B-C2B-C3B	-2.46	105.30	107.87
11	Z3	1001	CYC	CMB-C2B-C1B	2.46	127.24	124.17
11	U5	201	CYC	C1B-C2B-C3B	-2.46	105.31	107.87
11	D7	1001	CYC	CMB-C2B-C1B	2.46	127.23	124.17
11	R3	1001	CYC	CMB-C2B-C1B	2.46	127.23	124.17
11	M8	201	CYC	OC-C1C-C2C	-2.46	124.22	126.17
11	b3	1001	CYC	CMB-C2B-C1B	2.46	127.23	124.17
11	U1	201	CYC	C1B-C2B-C3B	-2.46	105.31	107.87
11	W8	201	CYC	OC-C1C-C2C	-2.46	124.22	126.17
11	I2	201	CYC	CHB-C4A-C3A	2.45	131.21	124.90
11	R7	1001	CYC	CMB-C2B-C1B	2.45	127.23	124.17
11	A2	301	CYC	CHB-C4A-C3A	2.45	131.21	124.90
11	A6	301	CYC	CHB-C4A-C3A	2.45	131.21	124.90
11	I3	1001	CYC	CMB-C2B-C1B	2.45	127.23	124.17
11	N3	1001	CYC	CMB-C2B-C1B	2.45	127.23	124.17
11	O4	201	CYC	OC-C1C-C2C	-2.45	124.22	126.17
11	E6	201	CYC	CHB-C4A-C3A	2.45	131.20	124.90
11	Y8	201	CYC	OC-C1C-C2C	-2.45	124.22	126.17
11	G3	1001	CYC	CMB-C2B-C1B	2.45	127.22	124.17
11	d3	1001	CYC	CMB-C2B-C1B	2.45	127.22	124.17
11	f3	1001	CYC	CMB-C2B-C1B	2.45	127.22	124.17
11	K7	1001	CYC	CMB-C2B-C1B	2.45	127.22	124.17
11	P8	203	CYC	OC-C1C-C2C	-2.45	124.23	126.17
11	B1	201	CYC	C1B-C2B-C3B	-2.45	105.32	107.87
11	q3	1001	CYC	CMB-C2B-C1B	2.45	127.22	124.17
11	B5	201	CYC	C1B-C2B-C3B	-2.45	105.32	107.87
11	I7	1001	CYC	CMB-C2B-C1B	2.45	127.22	124.17
11	O8	201	CYC	OC-C1C-C2C	-2.45	124.23	126.17
11	N6	302	CYC	CHB-C4A-C3A	2.45	131.19	124.90
11	m3	201	CYC	CAA-C2A-C1A	2.44	129.33	125.01
11	M4	201	CYC	OC-C1C-C2C	-2.44	124.23	126.17
11	U8	201	CYC	OC-C1C-C2C	-2.44	124.23	126.17
11	P3	1001	CYC	CMB-C2B-C1B	2.44	127.21	124.17
11	X5	203	CYC	C1B-C2B-C3B	-2.44	105.32	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	L8	201	CYC	OC-C1C-C2C	-2.44	124.23	126.17
11	T3	1001	CYC	CMB-C2B-C1B	2.44	127.21	124.17
11	w3	1001	CYC	CMB-C2B-C1B	2.44	127.21	124.17
11	S1	201	CYC	C1B-C2B-C3B	-2.43	105.33	107.87
11	u3	1001	CYC	CMB-C2B-C1B	2.43	127.20	124.17
11	S8	201	CYC	OC-C1C-C2C	-2.43	124.24	126.17
11	S5	201	CYC	C1B-C2B-C3B	-2.43	105.34	107.87
11	Q7	1001	CYC	C2C-C3C-C4C	-2.43	97.70	101.34
11	E7	1001	CYC	C2C-C3C-C4C	-2.42	97.71	101.34
11	X3	1001	CYC	CMB-C2B-C1B	2.42	127.19	124.17
11	Y4	201	CYC	OC-C1C-C2C	-2.42	124.25	126.17
11	i3	1001	CYC	CMB-C2B-C1B	2.42	127.19	124.17
11	J7	1001	CYC	C2C-C3C-C4C	-2.42	97.72	101.34
11	X7	1001	CYC	C2C-C3C-C4C	-2.42	97.72	101.34
11	K3	1001	CYC	CMB-C2B-C1B	2.42	127.19	124.17
11	k3	1001	CYC	CMB-C2B-C1B	2.42	127.19	124.17
11	H7	1001	CYC	C2C-C3C-C4C	-2.42	97.72	101.34
11	o3	1001	CYC	CMB-C2B-C1B	2.42	127.18	124.17
11	C7	1001	CYC	C2C-C3C-C4C	-2.42	97.72	101.34
11	L7	1001	CYC	C2C-C3C-C4C	-2.41	97.72	101.34
11	a7	1001	CYC	CMB-C2B-C1B	2.41	127.18	124.17
11	E4	203	CYC	C2C-C1C-NC	2.41	110.35	108.27
11	E8	203	CYC	OC-C1C-C2C	-2.41	124.25	126.17
11	D8	201	CYC	C2C-C1C-NC	2.41	110.35	108.27
11	Y7	1001	CYC	CMB-C2B-C1B	2.41	127.18	124.17
11	A7	1001	CYC	C2C-C3C-C4C	-2.41	97.73	101.34
11	Z7	1001	CYC	C2C-C3C-C4C	-2.41	97.73	101.34
11	T3	1001	CYC	C4D-CHA-C1A	2.41	131.69	128.81
11	W7	1001	CYC	CMB-C2B-C1B	2.41	127.17	124.17
11	s3	1001	CYC	CMB-C2B-C1B	2.41	127.17	124.17
11	M8	201	CYC	C2C-C1C-NC	2.41	110.35	108.27
11	V7	1001	CYC	C2C-C3C-C4C	-2.41	97.74	101.34
11	M7	1001	CYC	CMB-C2B-C1B	2.41	127.17	124.17
11	y3	1001	CYC	CMB-C2B-C1B	2.40	127.17	124.17
11	P7	1001	CYC	CMB-C2B-C1B	2.40	127.16	124.17
11	W4	201	CYC	C2C-C1C-NC	2.40	110.34	108.27
11	G8	201	CYC	C2C-C1C-NC	2.40	110.34	108.27
11	O7	1001	CYC	C2C-C3C-C4C	-2.40	97.75	101.34
11	M4	201	CYC	C2C-C1C-NC	2.40	110.34	108.27
11	B2	201	CYC	CAA-CBA-CGA	-2.40	108.44	113.60
11	G4	201	CYC	C2C-C1C-NC	2.40	110.34	108.27
11	S7	1001	CYC	C2C-C3C-C4C	-2.40	97.75	101.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	b3	1001	CYC	C4D-CHA-C1A	2.40	131.67	128.81
11	Z3	1001	CYC	C4D-CHA-C1A	2.39	131.67	128.81
11	E8	203	CYC	C2C-C1C-NC	2.39	110.34	108.27
11	U8	201	CYC	C2C-C1C-NC	2.39	110.34	108.27
11	C6	203	CYC	CAA-CBA-CGA	-2.39	108.45	113.60
11	O4	201	CYC	C2C-C1C-NC	2.39	110.33	108.27
11	X5	201	CYC	CMD-C2D-C3D	-2.39	120.43	124.94
11	W2	201	CYC	CAA-CBA-CGA	-2.39	108.46	113.60
11	F7	1001	CYC	CMB-C2B-C1B	2.39	127.15	124.17
11	I8	203	CYC	C2C-C1C-NC	2.39	110.33	108.27
11	U4	201	CYC	C2C-C1C-NC	2.39	110.33	108.27
11	I2	203	CYC	CAA-CBA-CGA	-2.39	108.47	113.60
11	N5	301	CYC	CMD-C2D-C3D	-2.39	120.44	124.94
11	E4	203	CYC	OC-C1C-C2C	-2.38	124.28	126.17
11	B7	1001	CYC	CMB-C2B-C1B	2.38	127.14	124.17
11	W6	201	CYC	CAA-CBA-CGA	-2.38	108.47	113.60
11	Y6	201	CYC	CAA-CBA-CGA	-2.38	108.47	113.60
11	V5	202	CYC	O2D-CGD-O1D	-2.38	117.36	123.30
11	D4	201	CYC	C2C-C1C-NC	2.38	110.33	108.27
11	O8	201	CYC	C2C-C1C-NC	2.38	110.33	108.27
11	P8	203	CYC	C2C-C1C-NC	2.38	110.33	108.27
11	H6	201	CYC	CAA-CBA-CGA	-2.38	108.48	113.60
11	I3	1001	CYC	C4D-CHA-C1A	2.38	131.65	128.81
11	y3	1001	CYC	C4D-CHA-C1A	2.38	131.65	128.81
11	J6	201	CYC	CAA-CBA-CGA	-2.38	108.48	113.60
11	D2	201	CYC	CAA-CBA-CGA	-2.38	108.48	113.60
11	X2	203	CYC	CAA-CBA-CGA	-2.38	108.48	113.60
11	U5	201	CYC	O2D-CGD-O1D	-2.38	117.37	123.30
11	U6	201	CYC	CAA-CBA-CGA	-2.38	108.48	113.60
11	E2	203	CYC	CAA-CBA-CGA	-2.38	108.48	113.60
11	F6	201	CYC	CAA-CBA-CGA	-2.38	108.48	113.60
11	J5	201	CYC	O2D-CGD-O1D	-2.38	117.37	123.30
11	T7	1001	CYC	CMB-C2B-C1B	2.38	127.13	124.17
11	J1	201	CYC	O2D-CGD-O1D	-2.38	117.38	123.30
11	O5	201	CYC	CHA-C1A-NA	-2.38	125.53	128.83
11	A5	301	CYC	CMD-C2D-C3D	-2.38	120.46	124.94
11	R3	1001	CYC	C4D-CHA-C1A	2.37	131.65	128.81
11	S2	201	CYC	CAA-CBA-CGA	-2.37	108.49	113.60
11	I4	203	CYC	C2C-C1C-NC	2.37	110.32	108.27
11	Y4	201	CYC	C2C-C1C-NC	2.37	110.32	108.27
11	S8	201	CYC	C2C-C1C-NC	2.37	110.32	108.27
11	X1	201	CYC	CMD-C2D-C3D	-2.37	120.47	124.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	L5	201	CYC	CHA-C1A-NA	-2.37	125.53	128.83
11	Q2	201	CYC	CAA-CBA-CGA	-2.37	108.50	113.60
11	B6	201	CYC	CAA-CBA-CGA	-2.37	108.50	113.60
11	U1	201	CYC	O2D-CGD-O1D	-2.37	117.39	123.30
11	P4	203	CYC	C2C-C1C-NC	2.37	110.32	108.27
11	C5	202	CYC	O2D-CGD-O1D	-2.37	117.39	123.30
11	A1	301	CYC	CMD-C2D-C3D	-2.37	120.47	124.94
11	P5	201	CYC	CMD-C2D-C3D	-2.37	120.47	124.94
11	F5	201	CYC	O2D-CGD-O1D	-2.37	117.39	123.30
11	o3	1001	CYC	C4D-CHA-C1A	2.37	131.64	128.81
11	Z2	201	CYC	CAA-CBA-CGA	-2.37	108.50	113.60
11	I1	201	CYC	CMD-C2D-C3D	-2.37	120.48	124.94
11	Y8	201	CYC	C2C-C1C-NC	2.37	110.31	108.27
11	L5	201	CYC	O2D-CGD-O1D	-2.37	117.40	123.30
11	V1	202	CYC	O2D-CGD-O1D	-2.37	117.40	123.30
11	H5	201	CYC	O2D-CGD-O1D	-2.37	117.40	123.30
11	Q6	201	CYC	CAA-CBA-CGA	-2.37	108.51	113.60
11	M5	201	CYC	CMD-C2D-C3D	-2.37	120.48	124.94
11	L1	201	CYC	O2D-CGD-O1D	-2.37	117.40	123.30
11	q3	1001	CYC	C4D-CHA-C1A	2.37	131.64	128.81
11	M1	201	CYC	CMD-C2D-C3D	-2.37	120.48	124.94
11	H2	201	CYC	CAA-CBA-CGA	-2.37	108.51	113.60
11	i3	1001	CYC	C4D-CHA-C1A	2.36	131.63	128.81
11	R6	202	CYC	CAA-CBA-CGA	-2.36	108.51	113.60
11	F1	201	CYC	O2D-CGD-O1D	-2.36	117.41	123.30
11	X1	203	CYC	O2D-CGD-O1D	-2.36	117.41	123.30
11	X5	203	CYC	O2D-CGD-O1D	-2.36	117.41	123.30
11	N1	301	CYC	CMD-C2D-C3D	-2.36	120.49	124.94
11	G3	1001	CYC	C4D-CHA-C1A	2.36	131.63	128.81
11	K2	203	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
11	T2	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
11	A1	302	CYC	CMD-C2D-C3D	-2.36	120.49	124.94
11	O6	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
11	f3	1001	CYC	C4D-CHA-C1A	2.36	131.63	128.81
11	W8	201	CYC	C2C-C1C-NC	2.36	110.31	108.27
11	R1	201	CYC	CMD-C2D-C3D	-2.36	120.49	124.94
11	Z1	201	CYC	CMD-C2D-C3D	-2.36	120.49	124.94
11	P1	201	CYC	CMD-C2D-C3D	-2.36	120.49	124.94
11	O1	201	CYC	O2D-CGD-O1D	-2.36	117.42	123.30
11	K3	1001	CYC	C4D-CHA-C1A	2.36	131.63	128.81
11	K1	201	CYC	CMD-C2D-C3D	-2.36	120.49	124.94
11	03	901	CYC	CMD-C2D-C3D	2.36	129.39	124.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	K5	201	CYC	CMD-C2D-C3D	-2.36	120.49	124.94
11	C1	202	CYC	O2D-CGD-O1D	-2.36	117.42	123.30
11	X3	1001	CYC	C4D-CHA-C1A	2.36	131.63	128.81
11	H1	201	CYC	O2D-CGD-O1D	-2.36	117.42	123.30
11	H5	201	CYC	CHA-C1A-NA	-2.36	125.56	128.83
11	O5	201	CYC	O2D-CGD-O1D	-2.36	117.43	123.30
11	V5	201	CYC	CMD-C2D-C3D	-2.35	120.50	124.94
11	H1	201	CYC	CHA-C1A-NA	-2.35	125.56	128.83
11	G5	201	CYC	CMD-C2D-C3D	-2.35	120.50	124.94
11	Z5	201	CYC	CMD-C2D-C3D	-2.35	120.50	124.94
11	u3	1001	CYC	C4D-CHA-C1A	2.35	131.62	128.81
11	O1	201	CYC	CHA-C1A-NA	-2.35	125.56	128.83
11	R5	201	CYC	CMD-C2D-C3D	-2.35	120.51	124.94
11	Q1	201	CYC	O2D-CGD-O1D	-2.35	117.44	123.30
11	A5	302	CYC	CMD-C2D-C3D	-2.35	120.51	124.94
11	d3	1001	CYC	C4D-CHA-C1A	2.35	131.62	128.81
11	S4	201	CYC	C2C-C1C-NC	2.35	110.30	108.27
11	X5	203	CYC	CHA-C1A-NA	-2.35	125.57	128.83
11	N3	1001	CYC	C4D-CHA-C1A	2.35	131.62	128.81
11	G5	202	CYC	CBD-CAD-C3D	2.35	116.63	112.62
11	13	901	CYC	CMD-C2D-C3D	2.35	129.37	124.94
11	Q5	201	CYC	O2D-CGD-O1D	-2.35	117.45	123.30
11	S5	201	CYC	O2D-CGD-O1D	-2.35	117.45	123.30
11	w3	1001	CYC	C4D-CHA-C1A	2.35	131.61	128.81
11	V1	201	CYC	CMD-C2D-C3D	-2.34	120.52	124.94
11	I5	201	CYC	CMD-C2D-C3D	-2.34	120.52	124.94
11	P3	1001	CYC	C4D-CHA-C1A	2.34	131.61	128.81
11	S4	201	CYC	OC-C1C-C2C	-2.34	124.31	126.17
11	S1	201	CYC	O2D-CGD-O1D	-2.34	117.46	123.30
11	M1	202	CYC	CBD-CAD-C3D	2.34	116.62	112.62
11	B1	201	CYC	O2D-CGD-O1D	-2.34	117.46	123.30
11	s3	1001	CYC	C4D-CHA-C1A	2.34	131.60	128.81
11	k3	1001	CYC	C4D-CHA-C1A	2.34	131.60	128.81
11	L1	201	CYC	CHA-C1A-NA	-2.34	125.58	128.83
11	B1	201	CYC	CHA-C1A-NA	-2.34	125.58	128.83
11	L6	201	CYC	CAA-CBA-CGA	-2.34	108.57	113.60
11	G1	201	CYC	CMD-C2D-C3D	-2.34	120.54	124.94
11	G1	202	CYC	CBD-CAD-C3D	2.33	116.60	112.62
11	B5	201	CYC	CHA-C1A-NA	-2.33	125.59	128.83
11	X1	203	CYC	CHA-C1A-NA	-2.33	125.59	128.83
11	L8	201	CYC	C2C-C1C-NC	2.33	110.28	108.27
11	V5	202	CYC	CHA-C1A-C2A	-2.33	119.93	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	D1	201	CYC	CBD-CAD-C3D	2.33	116.60	112.62
11	M5	202	CYC	CBD-CAD-C3D	2.33	116.60	112.62
11	Q5	201	CYC	CHA-C1A-C2A	-2.33	119.93	125.32
11	U1	201	CYC	CHA-C1A-NA	-2.33	125.59	128.83
11	B5	201	CYC	O2D-CGD-O1D	-2.33	117.49	123.30
11	P5	202	CYC	CBD-CAD-C3D	2.33	116.60	112.62
11	L4	201	CYC	C2C-C1C-NC	2.32	110.28	108.27
11	C5	202	CYC	CHA-C1A-NA	-2.32	125.61	128.83
11	Z5	202	CYC	CBD-CAD-C3D	2.32	116.58	112.62
11	R1	202	CYC	CBD-CAD-C3D	2.32	116.58	112.62
11	T5	201	CYC	CBD-CAD-C3D	2.32	116.58	112.62
11	P1	202	CYC	CBD-CAD-C3D	2.32	116.58	112.62
11	C5	201	CYC	CBD-CAD-C3D	2.32	116.58	112.62
11	U5	201	CYC	CHA-C1A-NA	-2.32	125.61	128.83
11	C1	201	CYC	CBD-CAD-C3D	2.32	116.57	112.62
11	V1	202	CYC	CHA-C1A-NA	-2.32	125.61	128.83
11	U5	201	CYC	CHA-C1A-C2A	-2.31	119.97	125.32
11	D5	201	CYC	CBD-CAD-C3D	2.31	116.57	112.62
11	V1	202	CYC	CHA-C1A-C2A	-2.31	119.98	125.32
11	a7	1001	CYC	C1B-CHB-C4A	2.31	133.73	128.08
11	S1	201	CYC	CHA-C1A-NA	-2.31	125.62	128.83
11	D7	1001	CYC	CHB-C1B-C2B	-2.31	122.37	126.95
11	T1	201	CYC	CBD-CAD-C3D	2.31	116.56	112.62
11	C1	202	CYC	CHA-C1A-NA	-2.31	125.62	128.83
11	K5	202	CYC	CBD-CAD-C3D	2.31	116.56	112.62
11	U1	202	CYC	CBD-CAD-C3D	2.31	116.56	112.62
11	R5	202	CYC	CBD-CAD-C3D	2.31	116.56	112.62
11	Q1	201	CYC	CHA-C1A-C2A	-2.31	119.99	125.32
11	U1	201	CYC	CHA-C1A-C2A	-2.31	119.99	125.32
11	V5	202	CYC	CHA-C1A-NA	-2.30	125.63	128.83
11	K1	202	CYC	CBD-CAD-C3D	2.30	116.55	112.62
11	L1	201	CYC	CHA-C1A-C2A	-2.30	120.00	125.32
11	I1	202	CYC	CBD-CAD-C3D	2.30	116.55	112.62
11	F1	201	CYC	CHA-C1A-NA	-2.30	125.64	128.83
11	X1	202	CYC	CBD-CAD-C3D	2.30	116.54	112.62
11	B7	1001	CYC	C1B-CHB-C4A	2.30	133.70	128.08
11	I7	1001	CYC	C1B-CHB-C4A	2.30	133.70	128.08
11	S5	201	CYC	CHA-C1A-NA	-2.30	125.64	128.83
11	W7	1001	CYC	C1B-CHB-C4A	2.30	133.69	128.08
11	J1	201	CYC	CHA-C1A-C2A	-2.30	120.01	125.32
11	O1	201	CYC	CHA-C1A-C2A	-2.30	120.01	125.32
11	C1	202	CYC	CHA-C1A-C2A	-2.30	120.01	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	S1	201	CYC	CHA-C1A-C2A	-2.30	120.02	125.32
11	Z1	202	CYC	CBD-CAD-C3D	2.30	116.54	112.62
11	Q1	201	CYC	CHA-C1A-NA	-2.30	125.64	128.83
11	F5	201	CYC	CHA-C1A-C2A	-2.30	120.02	125.32
11	F7	1001	CYC	C1B-CHB-C4A	2.29	133.69	128.08
11	J5	201	CYC	CHA-C1A-C2A	-2.29	120.02	125.32
11	K7	1001	CYC	CHB-C1B-C2B	-2.29	122.41	126.95
11	M7	1001	CYC	C1B-CHB-C4A	2.29	133.68	128.08
11	R7	1001	CYC	C1B-CHB-C4A	2.29	133.68	128.08
11	X1	203	CYC	CHA-C1A-C2A	-2.29	120.03	125.32
11	L5	201	CYC	CHA-C1A-C2A	-2.29	120.03	125.32
11	Y7	1001	CYC	C1B-CHB-C4A	2.29	133.68	128.08
11	S5	201	CYC	CHA-C1A-C2A	-2.29	120.03	125.32
11	J1	201	CYC	CHA-C1A-NA	-2.29	125.65	128.83
11	U5	202	CYC	CBD-CAD-C3D	2.29	116.53	112.62
11	U6	201	CYC	CHB-C4A-C3A	2.29	130.78	124.90
11	X5	202	CYC	CBD-CAD-C3D	2.29	116.53	112.62
11	O5	201	CYC	CHA-C1A-C2A	-2.29	120.03	125.32
11	P7	1001	CYC	CHB-C1B-C2B	-2.29	122.42	126.95
11	X5	203	CYC	CHA-C1A-C2A	-2.29	120.04	125.32
11	F1	201	CYC	CHA-C1A-C2A	-2.29	120.04	125.32
11	B6	201	CYC	CHB-C4A-C3A	2.29	130.78	124.90
11	H5	201	CYC	CHA-C1A-C2A	-2.28	120.05	125.32
11	I5	202	CYC	CBD-CAD-C3D	2.28	116.52	112.62
11	Q5	201	CYC	CHA-C1A-NA	-2.28	125.66	128.83
11	C5	202	CYC	CHA-C1A-C2A	-2.28	120.05	125.32
11	Z2	201	CYC	CHB-C4A-C3A	2.28	130.77	124.90
11	H1	201	CYC	CHA-C1A-C2A	-2.28	120.05	125.32
11	F5	201	CYC	CHA-C1A-NA	-2.28	125.66	128.83
11	I7	1001	CYC	CHB-C1B-C2B	-2.28	122.43	126.95
11	B1	201	CYC	CHA-C1A-C2A	-2.28	120.05	125.32
11	D7	1001	CYC	C1B-CHB-C4A	2.28	133.65	128.08
11	P7	1001	CYC	C1B-CHB-C4A	2.28	133.65	128.08
11	R7	1001	CYC	CHB-C1B-C2B	-2.28	122.43	126.95
11	T7	1001	CYC	C1B-CHB-C4A	2.28	133.65	128.08
11	B5	201	CYC	CHA-C1A-C2A	-2.28	120.06	125.32
11	K7	1001	CYC	C1B-CHB-C4A	2.28	133.64	128.08
11	B2	201	CYC	CHB-C4A-C3A	2.28	130.75	124.90
11	J5	201	CYC	CHA-C1A-NA	-2.28	125.67	128.83
11	F6	201	CYC	CHB-C4A-C3A	2.28	130.75	124.90
11	V3	201	CYC	CHB-C1B-C2B	-2.28	122.44	126.95
11	I2	203	CYC	CHB-C4A-C3A	2.28	130.75	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	M7	1001	CYC	CHB-C1B-C2B	-2.27	122.44	126.95
11	H2	201	CYC	CHB-C4A-C3A	2.27	130.75	124.90
11	Z5	201	CYC	CHA-C1A-C2A	-2.27	120.07	125.32
11	E2	203	CYC	CHB-C4A-C3A	2.27	130.74	124.90
11	C6	203	CYC	CHB-C4A-C3A	2.27	130.74	124.90
11	M1	201	CYC	CHA-C1A-C2A	-2.27	120.08	125.32
11	M5	201	CYC	CHA-C1A-C2A	-2.27	120.08	125.32
11	R5	201	CYC	CHA-C1A-C2A	-2.27	120.08	125.32
11	N1	301	CYC	CHA-C1A-C2A	-2.27	120.08	125.32
11	R1	201	CYC	CHA-C1A-C2A	-2.27	120.08	125.32
11	N5	301	CYC	CHA-C1A-C2A	-2.27	120.08	125.32
11	A5	302	CYC	CHA-C1A-C2A	-2.27	120.08	125.32
11	D2	201	CYC	CHB-C4A-C3A	2.27	130.73	124.90
11	A5	301	CYC	CHA-C1A-C2A	-2.27	120.09	125.32
11	N5	301	CYC	CHA-C1A-NA	-2.27	125.68	128.83
11	V1	201	CYC	CHA-C1A-C2A	-2.27	120.09	125.32
11	Q6	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
11	T2	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
11	H6	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
11	W6	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
11	P1	201	CYC	CHA-C1A-C2A	-2.26	120.09	125.32
11	J6	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
11	P5	201	CYC	CHA-C1A-C2A	-2.26	120.10	125.32
11	F7	1001	CYC	CHB-C1B-C2B	-2.26	122.47	126.95
11	V5	201	CYC	CHA-C1A-C2A	-2.26	120.10	125.32
11	Y7	1001	CYC	CHB-C1B-C2B	-2.26	122.47	126.95
11	W2	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
11	X1	201	CYC	CHA-C1A-C2A	-2.26	120.10	125.32
11	Z1	201	CYC	CHA-C1A-C2A	-2.26	120.10	125.32
11	A1	301	CYC	CHA-C1A-C2A	-2.26	120.10	125.32
11	O6	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
11	I5	201	CYC	CHA-C1A-C2A	-2.26	120.11	125.32
11	m3	201	CYC	CHB-C1B-C2B	-2.26	122.48	126.95
11	A1	302	CYC	CHA-C1A-C2A	-2.26	120.11	125.32
11	T7	1001	CYC	CHB-C1B-C2B	-2.26	122.48	126.95
11	S2	201	CYC	CHB-C4A-C3A	2.26	130.70	124.90
11	K2	203	CYC	CHB-C4A-C3A	2.26	130.70	124.90
11	Q2	201	CYC	CHB-C4A-C3A	2.26	130.70	124.90
11	X5	201	CYC	CHA-C1A-C2A	-2.25	120.11	125.32
11	K5	201	CYC	CHA-C1A-C2A	-2.25	120.12	125.32
11	A1	302	CYC	CHA-C1A-NA	-2.25	125.70	128.83
11	a7	1001	CYC	CHB-C1B-C2B	-2.25	122.49	126.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	I1	201	CYC	CHA-C1A-C2A	-2.25	120.12	125.32
11	K1	201	CYC	CHA-C1A-C2A	-2.25	120.12	125.32
11	L6	201	CYC	CHB-C4A-C3A	2.25	130.69	124.90
11	W7	1001	CYC	CHB-C1B-C2B	-2.25	122.49	126.95
11	G5	201	CYC	CHA-C1A-C2A	-2.25	120.13	125.32
11	X2	203	CYC	CHB-C4A-C3A	2.25	130.68	124.90
11	B7	1001	CYC	CHB-C1B-C2B	-2.25	122.50	126.95
11	N1	301	CYC	CHA-C1A-NA	-2.25	125.71	128.83
11	G1	201	CYC	CHA-C1A-C2A	-2.25	120.13	125.32
11	R6	202	CYC	CHB-C4A-C3A	2.24	130.67	124.90
11	Z1	201	CYC	CHA-C1A-NA	-2.24	125.72	128.83
11	P5	201	CYC	CHA-C1A-NA	-2.24	125.72	128.83
11	Y6	201	CYC	CHB-C4A-C3A	2.24	130.66	124.90
11	C6	201	CYC	CBD-CAD-C3D	2.23	116.43	112.62
11	P1	201	CYC	CHA-C1A-NA	-2.23	125.73	128.83
11	X5	201	CYC	CHA-C1A-NA	-2.23	125.73	128.83
11	A1	301	CYC	CHA-C1A-NA	-2.23	125.74	128.83
11	V1	201	CYC	CHA-C1A-NA	-2.22	125.74	128.83
11	N2	302	CYC	CBD-CAD-C3D	2.22	116.42	112.62
11	N6	301	CYC	CBD-CAD-C3D	2.22	116.42	112.62
11	03	901	CYC	C2A-C1A-NA	2.22	113.28	110.05
11	A5	301	CYC	CHA-C1A-NA	-2.22	125.74	128.83
11	A5	302	CYC	CHA-C1A-NA	-2.22	125.74	128.83
11	C2	201	CYC	CBD-CAD-C3D	2.22	116.40	112.62
11	R1	201	CYC	CHA-C1A-NA	-2.22	125.75	128.83
11	I5	201	CYC	CHA-C1A-NA	-2.22	125.75	128.83
11	A6	301	CYC	CBD-CAD-C3D	2.22	116.40	112.62
11	X1	201	CYC	CHA-C1A-NA	-2.22	125.75	128.83
11	N6	302	CYC	CBD-CAD-C3D	2.21	116.40	112.62
11	R5	201	CYC	CHA-C1A-NA	-2.21	125.76	128.83
11	I1	201	CYC	CHA-C1A-NA	-2.21	125.76	128.83
11	A2	301	CYC	CBD-CAD-C3D	2.21	116.39	112.62
11	Z5	201	CYC	CHA-C1A-NA	-2.21	125.77	128.83
11	V5	201	CYC	CHA-C1A-NA	-2.21	125.77	128.83
11	Z6	201	CYC	CBD-CAD-C3D	2.21	116.39	112.62
11	K1	201	CYC	CHA-C1A-NA	-2.21	125.77	128.83
11	A7	1001	CYC	CHD-C4C-NC	2.21	127.83	125.20
11	G5	201	CYC	CHA-C1A-NA	-2.20	125.77	128.83
11	G1	201	CYC	CHA-C1A-NA	-2.20	125.77	128.83
11	M5	201	CYC	CHA-C1A-NA	-2.20	125.77	128.83
11	Z2	202	CYC	CBD-CAD-C3D	2.20	116.38	112.62
11	K5	201	CYC	CHA-C1A-NA	-2.20	125.77	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	V6	201	CYC	CBD-CAD-C3D	2.20	116.38	112.62
11	N2	301	CYC	CBD-CAD-C3D	2.20	116.38	112.62
11	S7	1001	CYC	CHD-C4C-NC	2.20	127.82	125.20
11	P6	201	CYC	CBD-CAD-C3D	2.20	116.37	112.62
11	P2	201	CYC	CBD-CAD-C3D	2.20	116.37	112.62
11	M1	201	CYC	CHA-C1A-NA	-2.20	125.78	128.83
11	13	901	CYC	C2A-C1A-NA	2.19	113.24	110.05
11	V2	201	CYC	CBD-CAD-C3D	2.19	116.36	112.62
11	E7	1001	CYC	CHD-C4C-NC	2.19	127.81	125.20
11	M6	201	CYC	CBD-CAD-C3D	2.19	116.36	112.62
11	J7	1001	CYC	CHD-C4C-NC	2.19	127.80	125.20
11	S7	1001	CYC	CAA-CBA-CGA	2.19	118.31	113.60
11	M2	201	CYC	CBD-CAD-C3D	2.19	116.35	112.62
11	V7	1001	CYC	CAA-CBA-CGA	2.18	118.30	113.60
11	O7	1001	CYC	CAA-CBA-CGA	2.18	118.30	113.60
11	H6	201	CYC	CBA-CAA-C2A	-2.18	106.56	112.63
11	V7	1001	CYC	CHD-C4C-NC	2.18	127.80	125.20
11	H7	1001	CYC	CHD-C4C-NC	2.18	127.80	125.20
11	O7	1001	CYC	CHD-C4C-NC	2.18	127.80	125.20
11	I2	201	CYC	CBD-CAD-C3D	2.18	116.34	112.62
11	F6	201	CYC	CBA-CAA-C2A	-2.18	106.58	112.63
11	X7	1001	CYC	CHD-C4C-NC	2.18	127.79	125.20
11	I6	201	CYC	CBD-CAD-C3D	2.18	116.33	112.62
11	U6	201	CYC	CBA-CAA-C2A	-2.18	106.58	112.63
11	X7	1001	CYC	CAA-CBA-CGA	2.18	118.28	113.60
11	X2	201	CYC	CBD-CAD-C3D	2.17	116.33	112.62
11	D2	201	CYC	CBA-CAA-C2A	-2.17	106.59	112.63
11	Z7	1001	CYC	CHD-C4C-NC	2.17	127.79	125.20
11	L7	1001	CYC	CAA-CBA-CGA	2.17	118.28	113.60
11	X6	201	CYC	CBD-CAD-C3D	2.17	116.32	112.62
11	A7	1001	CYC	CAA-CBA-CGA	2.17	118.27	113.60
11	Z7	1001	CYC	CAA-CBA-CGA	2.17	118.27	113.60
11	Q6	201	CYC	CBA-CAA-C2A	-2.17	106.60	112.63
11	C7	1001	CYC	CHD-C4C-NC	2.17	127.78	125.20
11	E2	203	CYC	CBA-CAA-C2A	-2.17	106.60	112.63
11	I2	203	CYC	CBA-CAA-C2A	-2.17	106.60	112.63
11	C6	203	CYC	CBA-CAA-C2A	-2.17	106.60	112.63
11	H1	201	CYC	C4A-C3A-C2A	-2.17	104.02	106.51
11	K6	201	CYC	CBD-CAD-C3D	2.17	116.32	112.62
11	H7	1001	CYC	CAA-CBA-CGA	2.17	118.27	113.60
11	E2	201	CYC	CBD-CAD-C3D	2.17	116.32	112.62
11	H2	201	CYC	CBA-CAA-C2A	-2.17	106.61	112.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Q7	1001	CYC	CAA-CBA-CGA	2.17	118.27	113.60
11	B2	201	CYC	CBA-CAA-C2A	-2.17	106.61	112.63
11	J6	201	CYC	CBA-CAA-C2A	-2.17	106.61	112.63
11	X5	203	CYC	C4A-C3A-C2A	-2.17	104.02	106.51
11	L5	201	CYC	C4A-C3A-C2A	-2.17	104.02	106.51
11	L7	1001	CYC	CHD-C4C-NC	2.16	127.78	125.20
11	Z2	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
11	W6	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
11	E7	1001	CYC	CAA-CBA-CGA	2.16	118.25	113.60
11	J7	1001	CYC	CAA-CBA-CGA	2.16	118.25	113.60
11	Q2	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
11	E6	201	CYC	CBD-CAD-C3D	2.16	116.31	112.62
11	C7	1001	CYC	CAA-CBA-CGA	2.16	118.25	113.60
11	D7	1001	CYC	C2A-C1A-NA	2.16	113.19	110.05
11	W2	201	CYC	CBA-CAA-C2A	-2.16	106.63	112.63
11	K2	201	CYC	CBD-CAD-C3D	2.16	116.30	112.62
11	Q7	1001	CYC	CHD-C4C-NC	2.16	127.77	125.20
11	O6	201	CYC	CBA-CAA-C2A	-2.15	106.64	112.63
11	K2	203	CYC	CBA-CAA-C2A	-2.15	106.64	112.63
11	B6	201	CYC	CBA-CAA-C2A	-2.15	106.64	112.63
11	C1	202	CYC	C4A-C3A-C2A	-2.15	104.04	106.51
11	B7	1001	CYC	C2A-C1A-NA	2.15	113.18	110.05
11	R6	202	CYC	CBA-CAA-C2A	-2.15	106.65	112.63
11	C5	202	CYC	C4A-C3A-C2A	-2.15	104.04	106.51
11	T2	201	CYC	CBA-CAA-C2A	-2.15	106.66	112.63
11	M5	201	CYC	CBC-CAC-C3C	-2.15	108.69	113.47
11	S2	201	CYC	CBA-CAA-C2A	-2.15	106.66	112.63
11	L6	201	CYC	CBA-CAA-C2A	-2.15	106.67	112.63
11	O5	201	CYC	C4A-C3A-C2A	-2.15	104.05	106.51
11	L1	201	CYC	C4A-C3A-C2A	-2.14	104.05	106.51
11	S1	201	CYC	C4A-C3A-C2A	-2.14	104.05	106.51
11	G5	201	CYC	CBC-CAC-C3C	-2.14	108.69	113.47
11	X2	203	CYC	CBA-CAA-C2A	-2.14	106.67	112.63
11	P5	201	CYC	CBC-CAC-C3C	-2.14	108.70	113.47
11	M1	201	CYC	CBC-CAC-C3C	-2.14	108.70	113.47
11	G1	201	CYC	CBC-CAC-C3C	-2.14	108.70	113.47
11	T7	1001	CYC	C2A-C1A-NA	2.14	113.16	110.05
11	F1	201	CYC	C4A-C3A-C2A	-2.14	104.05	106.51
11	X1	203	CYC	C4A-C3A-C2A	-2.14	104.05	106.51
11	Y6	201	CYC	CBA-CAA-C2A	-2.14	106.69	112.63
11	H5	201	CYC	C4A-C3A-C2A	-2.14	104.06	106.51
11	A5	301	CYC	CBC-CAC-C3C	-2.14	108.71	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	W7	1001	CYC	C2A-C1A-NA	2.14	113.16	110.05
11	I5	201	CYC	CBC-CAC-C3C	-2.13	108.71	113.47
11	P7	1001	CYC	C2A-C1A-NA	2.13	113.15	110.05
11	V1	201	CYC	CBC-CAC-C3C	-2.13	108.72	113.47
11	V5	201	CYC	CBC-CAC-C3C	-2.13	108.72	113.47
11	P1	201	CYC	CBC-CAC-C3C	-2.13	108.72	113.47
11	J1	201	CYC	C4A-C3A-C2A	-2.13	104.06	106.51
11	R1	201	CYC	CBC-CAC-C3C	-2.13	108.72	113.47
11	X1	201	CYC	CBC-CAC-C3C	-2.13	108.72	113.47
11	Z5	201	CYC	CBC-CAC-C3C	-2.13	108.72	113.47
11	R5	201	CYC	CBC-CAC-C3C	-2.13	108.73	113.47
11	a7	1001	CYC	C2A-C1A-NA	2.13	113.14	110.05
11	F5	201	CYC	C4A-C3A-C2A	-2.13	104.06	106.51
11	S5	201	CYC	C4A-C3A-C2A	-2.13	104.06	106.51
11	K1	201	CYC	CBC-CAC-C3C	-2.13	108.73	113.47
11	B1	201	CYC	C4A-C3A-C2A	-2.12	104.07	106.51
11	K7	1001	CYC	C2C-C3C-C4C	-2.12	98.16	101.34
11	N5	301	CYC	CBC-CAC-C3C	-2.12	108.74	113.47
11	Z1	201	CYC	CBC-CAC-C3C	-2.12	108.74	113.47
11	B5	201	CYC	C4A-C3A-C2A	-2.12	104.07	106.51
11	Q5	201	CYC	C4A-C3A-C2A	-2.12	104.07	106.51
11	Q1	201	CYC	C4A-C3A-C2A	-2.12	104.07	106.51
11	Y7	1001	CYC	C2A-C1A-NA	2.12	113.13	110.05
11	A1	301	CYC	CBC-CAC-C3C	-2.12	108.75	113.47
11	I1	201	CYC	CBC-CAC-C3C	-2.12	108.75	113.47
11	X5	201	CYC	CBC-CAC-C3C	-2.12	108.75	113.47
11	I7	1001	CYC	C2A-C1A-NA	2.12	113.13	110.05
11	U1	201	CYC	C4A-C3A-C2A	-2.11	104.08	106.51
11	O1	201	CYC	C4A-C3A-C2A	-2.11	104.08	106.51
11	N1	301	CYC	CBC-CAC-C3C	-2.11	108.76	113.47
11	Q3	1001	CYC	C1A-C2A-C3A	-2.11	104.44	106.78
11	R7	1001	CYC	C2C-C3C-C4C	-2.11	98.18	101.34
11	A1	302	CYC	CBC-CAC-C3C	-2.11	108.77	113.47
11	K5	201	CYC	CBC-CAC-C3C	-2.11	108.77	113.47
11	J5	201	CYC	C4A-C3A-C2A	-2.11	104.09	106.51
11	m3	201	CYC	O1D-CGD-CBD	-2.11	116.32	123.08
11	g3	1001	CYC	C1A-C2A-C3A	-2.11	104.45	106.78
11	a7	1001	CYC	C2C-C3C-C4C	-2.10	98.19	101.34
11	U5	201	CYC	OC-C1C-NC	2.10	127.49	124.94
11	M7	1001	CYC	C2A-C1A-NA	2.10	113.11	110.05
11	P7	1001	CYC	C2C-C3C-C4C	-2.10	98.19	101.34
11	A5	302	CYC	CBC-CAC-C3C	-2.10	108.79	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	V5	202	CYC	OC-C1C-NC	2.10	127.48	124.94
11	K7	1001	CYC	C2A-C1A-NA	2.10	113.10	110.05
11	R7	1001	CYC	C2A-C1A-NA	2.10	113.10	110.05
11	U5	201	CYC	C4A-C3A-C2A	-2.10	104.10	106.51
11	F7	1001	CYC	C2C-C3C-C4C	-2.09	98.20	101.34
11	F7	1001	CYC	C2A-C1A-NA	2.09	113.09	110.05
11	I7	1001	CYC	C2C-C3C-C4C	-2.09	98.21	101.34
11	Y7	1001	CYC	C2C-C3C-C4C	-2.09	98.21	101.34
11	B7	1001	CYC	C2C-C3C-C4C	-2.09	98.21	101.34
11	D7	1001	CYC	C2C-C3C-C4C	-2.09	98.21	101.34
11	U1	201	CYC	OC-C1C-NC	2.09	127.47	124.94
11	V1	202	CYC	C4A-C3A-C2A	-2.09	104.11	106.51
11	G4	202	CYC	CMC-C2C-C1C	-2.08	107.91	112.40
11	X3	1001	CYC	CAA-C2A-C1A	2.08	128.70	125.01
11	T7	1001	CYC	C2C-C3C-C4C	-2.08	98.22	101.34
11	G4	202	CYC	CMD-C2D-C3D	-2.08	121.02	124.94
11	V5	202	CYC	C4A-C3A-C2A	-2.08	104.12	106.51
11	T4	201	CYC	CMC-C2C-C1C	-2.08	107.92	112.40
11	M7	1001	CYC	C2C-C3C-C4C	-2.08	98.23	101.34
11	G8	202	CYC	CMD-C2D-C3D	-2.08	121.02	124.94
11	W7	1001	CYC	C2C-C3C-C4C	-2.08	98.23	101.34
11	F5	201	CYC	OC-C1C-NC	2.08	127.46	124.94
11	V4	201	CYC	CMC-C2C-C1C	-2.08	107.93	112.40
11	P4	201	CYC	CMD-C2D-C3D	-2.07	121.03	124.94
11	Q5	201	CYC	OC-C1C-NC	2.07	127.45	124.94
11	K8	201	CYC	CMC-C2C-C1C	-2.07	107.94	112.40
11	V3	201	CYC	O1D-CGD-CBD	-2.07	116.42	123.08
11	d3	1001	CYC	CAA-C2A-C1A	2.07	128.67	125.01
11	T8	201	CYC	CMC-C2C-C1C	-2.07	107.94	112.40
11	J5	201	CYC	OC-C1C-NC	2.07	127.45	124.94
11	O5	201	CYC	OC-C1C-NC	2.07	127.45	124.94
11	A8	301	CYC	CMD-C2D-C3D	-2.07	121.04	124.94
11	V8	201	CYC	CMC-C2C-C1C	-2.07	107.95	112.40
11	A1	302	CYC	OB-C4B-NB	-2.07	120.27	125.08
11	A4	301	CYC	CMD-C2D-C3D	-2.07	121.05	124.94
11	E4	201	CYC	CMC-C2C-C1C	-2.06	107.95	112.40
11	A5	302	CYC	OB-C4B-NB	-2.06	120.28	125.08
11	E8	201	CYC	CMC-C2C-C1C	-2.06	107.95	112.40
11	w3	1001	CYC	CAA-C2A-C1A	2.06	128.66	125.01
11	I4	201	CYC	CMC-C2C-C1C	-2.06	107.95	112.40
11	K4	201	CYC	CMC-C2C-C1C	-2.06	107.95	112.40
11	i3	1001	CYC	CAA-C2A-C1A	2.06	128.66	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	B1	201	CYC	OC-C1C-NC	2.06	127.44	124.94
11	F1	201	CYC	OC-C1C-NC	2.06	127.44	124.94
11	I8	201	CYC	CMC-C2C-C1C	-2.06	107.96	112.40
11	O1	201	CYC	OC-C1C-NC	2.06	127.44	124.94
11	N5	301	CYC	C1A-C2A-C3A	-2.06	104.50	106.78
11	Z8	201	CYC	CMD-C2D-C3D	-2.06	121.06	124.94
11	k3	1001	CYC	CAA-C2A-C1A	2.06	128.65	125.01
11	P8	201	CYC	CMC-C2C-C1C	-2.06	107.96	112.40
11	Z4	201	CYC	CMD-C2D-C3D	-2.06	121.06	124.94
11	s3	1001	CYC	CAA-C2A-C1A	2.06	128.65	125.01
11	G8	202	CYC	CMC-C2C-C1C	-2.06	107.97	112.40
11	X4	201	CYC	CMC-C2C-C1C	-2.06	107.97	112.40
11	X8	201	CYC	CMC-C2C-C1C	-2.06	107.97	112.40
11	R5	201	CYC	C1A-C2A-C3A	-2.06	104.51	106.78
11	P8	201	CYC	CMD-C2D-C3D	-2.06	121.07	124.94
11	y3	1001	CYC	CAA-C2A-C1A	2.06	128.64	125.01
11	M4	202	CYC	CMC-C2C-C1C	-2.06	107.97	112.40
11	R5	201	CYC	OB-C4B-NB	-2.05	120.30	125.08
11	R1	201	CYC	OB-C4B-NB	-2.05	120.31	125.08
11	K8	201	CYC	CMD-C2D-C3D	-2.05	121.07	124.94
11	X3	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
11	B5	201	CYC	OC-C1C-NC	2.05	127.43	124.94
11	X5	203	CYC	OC-C1C-NC	2.05	127.43	124.94
11	I4	201	CYC	CMD-C2D-C3D	-2.05	121.07	124.94
11	N4	301	CYC	CMC-C2C-C1C	-2.05	107.98	112.40
11	I8	201	CYC	CMD-C2D-C3D	-2.05	121.08	124.94
11	G3	1001	CYC	CAA-C2A-C1A	2.05	128.64	125.01
11	Z5	201	CYC	C1A-C2A-C3A	-2.05	104.51	106.78
11	V1	202	CYC	OC-C1C-NC	2.05	127.42	124.94
11	K4	201	CYC	CMD-C2D-C3D	-2.05	121.08	124.94
11	N8	301	CYC	CMD-C2D-C3D	-2.05	121.08	124.94
11	Z8	201	CYC	CMC-C2C-C1C	-2.05	107.99	112.40
11	w3	1001	CYC	CHB-C1B-C2B	-2.05	122.89	126.95
11	N1	301	CYC	C1A-C2A-C3A	-2.05	104.52	106.78
11	R1	201	CYC	C1A-C2A-C3A	-2.05	104.52	106.78
11	V4	201	CYC	CMD-C2D-C3D	-2.05	121.08	124.94
11	X4	201	CYC	CMD-C2D-C3D	-2.05	121.08	124.94
11	f3	1001	CYC	CAA-C2A-C1A	2.05	128.63	125.01
11	M8	202	CYC	CMC-C2C-C1C	-2.05	107.99	112.40
11	N4	301	CYC	CMD-C2D-C3D	-2.05	121.08	124.94
11	E4	201	CYC	CMD-C2D-C3D	-2.05	121.08	124.94
11	V8	201	CYC	CMD-C2D-C3D	-2.05	121.08	124.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	K1	201	CYC	OB-C4B-NB	-2.05	120.32	125.08
11	N8	301	CYC	CMC-C2C-C1C	-2.05	107.99	112.40
11	H1	201	CYC	OC-C1C-NC	2.05	127.42	124.94
11	Q1	201	CYC	OC-C1C-NC	2.05	127.42	124.94
11	P4	201	CYC	CMC-C2C-C1C	-2.04	108.00	112.40
11	C1	202	CYC	OC-C1C-NC	2.04	127.42	124.94
11	L1	201	CYC	OC-C1C-NC	2.04	127.42	124.94
11	X1	203	CYC	OC-C1C-NC	2.04	127.42	124.94
11	A8	301	CYC	CMC-C2C-C1C	-2.04	108.00	112.40
11	A1	301	CYC	OB-C4B-NB	-2.04	120.33	125.08
11	E8	201	CYC	CMD-C2D-C3D	-2.04	121.09	124.94
11	q3	1001	CYC	CAA-C2A-C1A	2.04	128.62	125.01
11	N8	301	CYC	CAB-C3B-C2B	-2.04	124.03	127.53
11	E4	201	CYC	CAB-C3B-C2B	-2.04	124.04	127.53
11	Z4	201	CYC	CMC-C2C-C1C	-2.04	108.00	112.40
11	K3	1001	CYC	CAA-C2A-C1A	2.04	128.62	125.01
11	q3	1001	CYC	CHB-C1B-C2B	-2.04	122.90	126.95
11	L5	201	CYC	OC-C1C-NC	2.04	127.41	124.94
11	O3	1001	CYC	O1A-CGA-CBA	2.04	129.64	123.08
11	v3	1001	CYC	CAD-CBD-CGD	-2.04	108.04	113.76
11	A5	302	CYC	C1A-C2A-C3A	-2.04	104.53	106.78
11	Z1	201	CYC	OB-C4B-NB	-2.04	120.34	125.08
11	b3	1001	CYC	CHB-C1B-C2B	-2.04	122.91	126.95
11	A5	301	CYC	OB-C4B-NB	-2.04	120.34	125.08
11	N3	1001	CYC	CAA-C2A-C1A	2.04	128.62	125.01
11	K5	201	CYC	OB-C4B-NB	-2.04	120.34	125.08
11	M4	202	CYC	CMD-C2D-C3D	-2.04	121.10	124.94
11	M8	202	CYC	CMD-C2D-C3D	-2.04	121.10	124.94
11	X8	201	CYC	CMD-C2D-C3D	-2.04	121.10	124.94
11	V5	201	CYC	OB-C4B-NB	-2.04	120.34	125.08
11	V1	201	CYC	C1A-C2A-C3A	-2.04	104.53	106.78
11	Z3	1001	CYC	CAA-C2A-C1A	2.04	128.61	125.01
11	T8	201	CYC	CMD-C2D-C3D	-2.04	121.10	124.94
11	M5	201	CYC	C1A-C2A-C3A	-2.04	104.53	106.78
11	H3	1001	CYC	CAD-CBD-CGD	-2.04	108.05	113.76
11	M5	201	CYC	OB-C4B-NB	-2.04	120.34	125.08
11	V8	201	CYC	CAB-C3B-C2B	-2.04	124.05	127.53
11	N4	301	CYC	CAB-C3B-C2B	-2.04	124.05	127.53
11	Z3	1001	CYC	C2A-C1A-NA	2.04	113.01	110.05
11	N1	301	CYC	OB-C4B-NB	-2.04	120.35	125.08
11	u3	1001	CYC	CAA-C2A-C1A	2.04	128.61	125.01
11	e3	1001	CYC	CAD-CBD-CGD	-2.04	108.05	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	S3	1001	CYC	O1A-CGA-CBA	2.04	129.62	123.08
11	Z4	201	CYC	CAB-C3B-C2B	-2.04	124.05	127.53
11	o3	1001	CYC	CHB-C1B-C2B	-2.03	122.92	126.95
11	Z1	201	CYC	C1A-C2A-C3A	-2.03	104.53	106.78
11	I5	201	CYC	C1A-C2A-C3A	-2.03	104.53	106.78
11	J1	201	CYC	OC-C1C-NC	2.03	127.41	124.94
11	j3	1001	CYC	CAD-CBD-CGD	-2.03	108.06	113.76
11	f3	1001	CYC	CHB-C1B-C2B	-2.03	122.92	126.95
11	T3	1001	CYC	CAA-C2A-C1A	2.03	128.60	125.01
11	U3	1001	CYC	O1A-CGA-CBA	2.03	129.61	123.08
11	Z3	1001	CYC	CHB-C1B-C2B	-2.03	122.92	126.95
11	C5	202	CYC	OC-C1C-NC	2.03	127.40	124.94
11	n3	1001	CYC	CAD-CBD-CGD	-2.03	108.06	113.76
11	N5	301	CYC	OB-C4B-NB	-2.03	120.35	125.08
11	G1	201	CYC	OB-C4B-NB	-2.03	120.36	125.08
11	Z5	201	CYC	OB-C4B-NB	-2.03	120.36	125.08
11	A4	301	CYC	CBD-CAD-C3D	-2.03	109.15	112.62
11	d3	1001	CYC	CHB-C1B-C2B	-2.03	122.92	126.95
11	G3	1001	CYC	C2A-C1A-NA	2.03	113.00	110.05
11	A1	302	CYC	C1A-C2A-C3A	-2.03	104.53	106.78
11	M1	201	CYC	OB-C4B-NB	-2.03	120.36	125.08
11	X3	1001	CYC	CHB-C1B-C2B	-2.03	122.92	126.95
11	13	904	CYC	O1A-CGA-CBA	2.03	129.60	123.08
11	W3	1001	CYC	O1A-CGA-CBA	2.03	129.60	123.08
11	v3	1001	CYC	O1A-CGA-CBA	2.03	129.60	123.08
11	V1	201	CYC	OB-C4B-NB	-2.03	120.36	125.08
11	S5	201	CYC	OC-C1C-NC	2.03	127.40	124.94
11	H3	1001	CYC	O1A-CGA-CBA	2.03	129.60	123.08
11	x3	1001	CYC	O1A-CGA-CBA	2.03	129.60	123.08
11	I3	1001	CYC	CAA-C2A-C1A	2.03	128.60	125.01
11	X1	201	CYC	OB-C4B-NB	-2.03	120.36	125.08
11	Z5	202	CYC	CMB-C2B-C1B	-2.03	121.63	124.17
11	I3	1001	CYC	CHB-C1B-C2B	-2.03	122.93	126.95
11	b3	1001	CYC	CAA-C2A-C1A	2.03	128.60	125.01
11	E8	201	CYC	CAB-C3B-C2B	-2.03	124.06	127.53
11	M1	201	CYC	C1A-C2A-C3A	-2.03	104.54	106.78
11	M3	201	CYC	CAD-CBD-CGD	-2.03	108.07	113.76
11	I5	201	CYC	OB-C4B-NB	-2.03	120.36	125.08
11	R3	1001	CYC	CHB-C1B-C2B	-2.03	122.93	126.95
11	A4	301	CYC	CMC-C2C-C1C	-2.03	108.03	112.40
11	M3	201	CYC	O1A-CGA-CBA	2.03	129.60	123.08
11	Z8	201	CYC	CAB-C3B-C2B	-2.03	124.06	127.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	I1	201	CYC	OB-C4B-NB	-2.03	120.36	125.08
11	N3	1001	CYC	CHB-C1B-C2B	-2.03	122.93	126.95
11	13	903	CYC	O1A-CGA-CBA	2.03	129.59	123.08
11	G8	202	CYC	CAB-C3B-C2B	-2.03	124.06	127.53
11	S3	1001	CYC	CAD-CBD-CGD	-2.03	108.08	113.76
11	13	903	CYC	CAD-CBD-CGD	-2.03	108.08	113.76
11	s3	1001	CYC	CHB-C1B-C2B	-2.03	122.93	126.95
11	W3	1001	CYC	CAD-CBD-CGD	-2.03	108.08	113.76
11	P3	1001	CYC	CAA-C2A-C1A	2.03	128.59	125.01
11	V4	201	CYC	CAB-C3B-C2B	-2.03	124.06	127.53
11	p3	1001	CYC	O1A-CGA-CBA	2.03	129.59	123.08
11	J3	201	CYC	CAD-CBD-CGD	-2.03	108.08	113.76
11	t3	1001	CYC	CAD-CBD-CGD	-2.03	108.08	113.76
11	u3	1001	CYC	CHB-C1B-C2B	-2.03	122.93	126.95
11	G5	201	CYC	OB-C4B-NB	-2.03	120.37	125.08
11	n3	1001	CYC	O1A-CGA-CBA	2.03	129.59	123.08
11	l3	1001	CYC	CAD-CBD-CGD	-2.03	108.08	113.76
11	A8	301	CYC	CAB-C3B-C2B	-2.03	124.06	127.53
11	y3	1001	CYC	C2A-C1A-NA	2.03	113.00	110.05
11	c3	1001	CYC	CAD-CBD-CGD	-2.02	108.08	113.76
11	X7	1001	CYC	CAA-C2A-C3A	2.02	131.65	127.88
11	A4	301	CYC	CAB-C3B-C2B	-2.02	124.07	127.53
11	x3	1001	CYC	CAD-CBD-CGD	-2.02	108.08	113.76
11	X5	201	CYC	OB-C4B-NB	-2.02	120.37	125.08
11	13	902	CYC	O1A-CGA-CBA	2.02	129.59	123.08
11	R3	1001	CYC	CAA-C2A-C1A	2.02	128.59	125.01
11	V5	201	CYC	C1A-C2A-C3A	-2.02	104.54	106.78
11	M4	202	CYC	CBD-CAD-C3D	-2.02	109.17	112.62
11	03	902	CYC	O1A-CGA-CBA	2.02	129.58	123.08
11	r3	1001	CYC	O1A-CGA-CBA	2.02	129.58	123.08
11	S1	201	CYC	OC-C1C-NC	2.02	127.39	124.94
11	k3	1001	CYC	CHB-C1B-C2B	-2.02	122.94	126.95
11	P1	201	CYC	OB-C4B-NB	-2.02	120.38	125.08
11	o3	1001	CYC	CAA-C2A-C1A	2.02	128.59	125.01
11	e3	1001	CYC	O1A-CGA-CBA	2.02	129.58	123.08
11	l3	1001	CYC	O1A-CGA-CBA	2.02	129.58	123.08
11	H5	201	CYC	OC-C1C-NC	2.02	127.39	124.94
11	P4	201	CYC	CBD-CAD-C3D	-2.02	109.17	112.62
11	G3	1001	CYC	CHB-C1B-C2B	-2.02	122.94	126.95
11	T3	1001	CYC	CHB-C1B-C2B	-2.02	122.94	126.95
11	T5	201	CYC	CMB-C2B-C1B	-2.02	121.64	124.17
11	M4	202	CYC	O1D-CGD-CBD	-2.02	116.59	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	P3	1001	CYC	CHB-C1B-C2B	-2.02	122.95	126.95
11	K8	201	CYC	O1D-CGD-CBD	-2.02	116.59	123.08
11	R5	202	CYC	CMB-C2B-C1B	-2.02	121.64	124.17
11	13	902	CYC	CAD-CBD-CGD	-2.02	108.10	113.76
11	r3	1001	CYC	CAD-CBD-CGD	-2.02	108.10	113.76
11	P8	201	CYC	CBD-CAD-C3D	-2.02	109.17	112.62
11	i3	1001	CYC	C2A-C1A-NA	2.02	112.98	110.05
11	K3	1001	CYC	CHB-C1B-C2B	-2.02	122.95	126.95
11	03	902	CYC	CAD-CBD-CGD	-2.02	108.10	113.76
11	d3	1001	CYC	C2A-C1A-NA	2.02	112.98	110.05
11	z3	1001	CYC	CAD-CBD-CGD	-2.02	108.10	113.76
11	T4	201	CYC	CMD-C2D-C3D	-2.02	121.14	124.94
11	O3	1001	CYC	CAD-CBD-CGD	-2.02	108.11	113.76
11	c3	1001	CYC	O1A-CGA-CBA	2.02	129.56	123.08
11	G4	202	CYC	CAB-C3B-C2B	-2.02	124.08	127.53
11	X8	201	CYC	O1D-CGD-CBD	-2.02	116.61	123.08
11	w3	1001	CYC	C2A-C1A-NA	2.01	112.98	110.05
11	K4	201	CYC	O1D-CGD-CBD	-2.01	116.61	123.08
11	K3	1001	CYC	C2A-C1A-NA	2.01	112.98	110.05
11	A8	301	CYC	O1D-CGD-CBD	-2.01	116.61	123.08
11	i3	1001	CYC	CHB-C1B-C2B	-2.01	122.96	126.95
11	Z8	201	CYC	O1D-CGD-CBD	-2.01	116.61	123.08
11	I8	201	CYC	CAB-C3B-C2B	-2.01	124.09	127.53
11	A8	301	CYC	CBD-CAD-C3D	-2.01	109.19	112.62
11	p3	1001	CYC	CAD-CBD-CGD	-2.01	108.12	113.76
11	X5	201	CYC	C1A-C2A-C3A	-2.01	104.56	106.78
11	P5	201	CYC	OB-C4B-NB	-2.01	120.40	125.08
11	T8	201	CYC	CAB-C3B-C2B	-2.01	124.09	127.53
11	J3	201	CYC	O1A-CGA-CBA	2.01	129.54	123.08
11	13	904	CYC	CAD-CBD-CGD	-2.01	108.12	113.76
11	P8	201	CYC	O1D-CGD-CBD	-2.01	116.62	123.08
11	Z7	1001	CYC	CAA-C2A-C3A	2.01	131.62	127.88
11	T3	1001	CYC	C2A-C1A-NA	2.01	112.97	110.05
11	M8	202	CYC	O1D-CGD-CBD	-2.01	116.62	123.08
11	T4	201	CYC	CAB-C3B-C2B	-2.01	124.09	127.53
11	E4	201	CYC	O1D-CGD-CBD	-2.01	116.63	123.08
11	o3	1001	CYC	C2A-C1A-NA	2.01	112.97	110.05
11	M8	202	CYC	CAB-C3B-C2B	-2.01	124.09	127.53
11	T4	201	CYC	O1D-CGD-CBD	-2.01	116.63	123.08
11	X4	201	CYC	CAB-C3B-C2B	-2.01	124.10	127.53
11	E8	201	CYC	O1D-CGD-CBD	-2.01	116.63	123.08
11	I1	201	CYC	C1A-C2A-C3A	-2.01	104.56	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	P1	201	CYC	C1A-C2A-C3A	-2.01	104.56	106.78
11	k3	1001	CYC	C2A-C1A-NA	2.01	112.97	110.05
11	R1	202	CYC	CMB-C2B-C1B	-2.01	121.66	124.17
11	U3	1001	CYC	CAD-CBD-CGD	-2.01	108.14	113.76
11	T8	201	CYC	CBD-CAD-C3D	-2.01	109.20	112.62
11	t3	1001	CYC	O1A-CGA-CBA	2.01	129.53	123.08
11	N8	301	CYC	O1D-CGD-CBD	-2.01	116.64	123.08
11	K1	201	CYC	C1A-C2A-C3A	-2.01	104.56	106.78
11	A1	301	CYC	C1A-C2A-C3A	-2.00	104.56	106.78
11	b3	1001	CYC	C2A-C1A-NA	2.00	112.96	110.05
11	L7	1001	CYC	CAA-C2A-C3A	2.00	131.61	127.88
11	z3	1001	CYC	O1A-CGA-CBA	2.00	129.52	123.08
11	P4	201	CYC	O1D-CGD-CBD	-2.00	116.64	123.08
11	T4	201	CYC	CBD-CAD-C3D	-2.00	109.20	112.62
11	j3	1001	CYC	O1A-CGA-CBA	2.00	129.52	123.08
11	I3	1001	CYC	C2A-C1A-NA	2.00	112.96	110.05
11	P4	201	CYC	CAB-C3B-C2B	-2.00	124.10	127.53
11	Z1	202	CYC	CMB-C2B-C1B	-2.00	121.66	124.17
11	T8	201	CYC	O1D-CGD-CBD	-2.00	116.65	123.08
11	y3	1001	CYC	CHB-C1B-C2B	-2.00	122.98	126.95
11	U1	202	CYC	CMB-C2B-C1B	-2.00	121.67	124.17

There are no chirality outliers.

All (2814) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
11	A1	301	CYC	C2C-C3C-CAC-CBC
11	A1	301	CYC	C4C-C3C-CAC-CBC
11	A1	301	CYC	ND-C1D-CHD-C4C
11	A1	301	CYC	C2D-C1D-CHD-C4C
11	A1	302	CYC	C2C-C3C-CAC-CBC
11	A1	302	CYC	C4C-C3C-CAC-CBC
11	A1	302	CYC	ND-C1D-CHD-C4C
11	A1	302	CYC	C2D-C1D-CHD-C4C
11	B1	201	CYC	C4C-C3C-CAC-CBC
11	B1	201	CYC	ND-C1D-CHD-C4C
11	B1	201	CYC	C2D-C1D-CHD-C4C
11	C1	201	CYC	NA-C4A-CHB-C1B
11	C1	201	CYC	C3A-C4A-CHB-C1B
11	C1	201	CYC	C2D-C1D-CHD-C4C
11	C1	202	CYC	C4C-C3C-CAC-CBC
11	C1	202	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
11	C1	202	CYC	C2D-C1D-CHD-C4C
11	D1	201	CYC	NA-C4A-CHB-C1B
11	D1	201	CYC	C3A-C4A-CHB-C1B
11	D1	201	CYC	C2D-C1D-CHD-C4C
11	F1	201	CYC	C4C-C3C-CAC-CBC
11	F1	201	CYC	ND-C1D-CHD-C4C
11	F1	201	CYC	C2D-C1D-CHD-C4C
11	G1	201	CYC	C2C-C3C-CAC-CBC
11	G1	201	CYC	C4C-C3C-CAC-CBC
11	G1	201	CYC	ND-C1D-CHD-C4C
11	G1	201	CYC	C2D-C1D-CHD-C4C
11	G1	202	CYC	NA-C4A-CHB-C1B
11	G1	202	CYC	C3A-C4A-CHB-C1B
11	G1	202	CYC	C2D-C1D-CHD-C4C
11	H1	201	CYC	C4C-C3C-CAC-CBC
11	H1	201	CYC	ND-C1D-CHD-C4C
11	H1	201	CYC	C2D-C1D-CHD-C4C
11	I1	201	CYC	C2C-C3C-CAC-CBC
11	I1	201	CYC	C4C-C3C-CAC-CBC
11	I1	201	CYC	ND-C1D-CHD-C4C
11	I1	201	CYC	C2D-C1D-CHD-C4C
11	I1	202	CYC	NA-C4A-CHB-C1B
11	I1	202	CYC	C3A-C4A-CHB-C1B
11	I1	202	CYC	C2D-C1D-CHD-C4C
11	J1	201	CYC	C4C-C3C-CAC-CBC
11	J1	201	CYC	ND-C1D-CHD-C4C
11	J1	201	CYC	C2D-C1D-CHD-C4C
11	K1	201	CYC	C2C-C3C-CAC-CBC
11	K1	201	CYC	C4C-C3C-CAC-CBC
11	K1	201	CYC	ND-C1D-CHD-C4C
11	K1	201	CYC	C2D-C1D-CHD-C4C
11	K1	202	CYC	NA-C4A-CHB-C1B
11	K1	202	CYC	C3A-C4A-CHB-C1B
11	K1	202	CYC	C2D-C1D-CHD-C4C
11	L1	201	CYC	C4C-C3C-CAC-CBC
11	L1	201	CYC	ND-C1D-CHD-C4C
11	L1	201	CYC	C2D-C1D-CHD-C4C
11	M1	201	CYC	C2C-C3C-CAC-CBC
11	M1	201	CYC	C4C-C3C-CAC-CBC
11	M1	201	CYC	ND-C1D-CHD-C4C
11	M1	201	CYC	C2D-C1D-CHD-C4C
11	M1	202	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	M1	202	CYC	C3A-C4A-CHB-C1B
11	M1	202	CYC	C2D-C1D-CHD-C4C
11	N1	301	CYC	C2C-C3C-CAC-CBC
11	N1	301	CYC	C4C-C3C-CAC-CBC
11	N1	301	CYC	ND-C1D-CHD-C4C
11	N1	301	CYC	C2D-C1D-CHD-C4C
11	O1	201	CYC	C4C-C3C-CAC-CBC
11	O1	201	CYC	ND-C1D-CHD-C4C
11	O1	201	CYC	C2D-C1D-CHD-C4C
11	P1	201	CYC	C2C-C3C-CAC-CBC
11	P1	201	CYC	C4C-C3C-CAC-CBC
11	P1	201	CYC	ND-C1D-CHD-C4C
11	P1	201	CYC	C2D-C1D-CHD-C4C
11	P1	202	CYC	NA-C4A-CHB-C1B
11	P1	202	CYC	C3A-C4A-CHB-C1B
11	P1	202	CYC	C2D-C1D-CHD-C4C
11	Q1	201	CYC	C4C-C3C-CAC-CBC
11	Q1	201	CYC	ND-C1D-CHD-C4C
11	Q1	201	CYC	C2D-C1D-CHD-C4C
11	R1	201	CYC	C2C-C3C-CAC-CBC
11	R1	201	CYC	C4C-C3C-CAC-CBC
11	R1	201	CYC	ND-C1D-CHD-C4C
11	R1	201	CYC	C2D-C1D-CHD-C4C
11	R1	202	CYC	NA-C4A-CHB-C1B
11	R1	202	CYC	C3A-C4A-CHB-C1B
11	R1	202	CYC	C2D-C1D-CHD-C4C
11	S1	201	CYC	C4C-C3C-CAC-CBC
11	S1	201	CYC	ND-C1D-CHD-C4C
11	S1	201	CYC	C2D-C1D-CHD-C4C
11	T1	201	CYC	NA-C4A-CHB-C1B
11	T1	201	CYC	C3A-C4A-CHB-C1B
11	T1	201	CYC	C2D-C1D-CHD-C4C
11	U1	201	CYC	C4C-C3C-CAC-CBC
11	U1	201	CYC	ND-C1D-CHD-C4C
11	U1	201	CYC	C2D-C1D-CHD-C4C
11	U1	202	CYC	NA-C4A-CHB-C1B
11	U1	202	CYC	C3A-C4A-CHB-C1B
11	U1	202	CYC	C2D-C1D-CHD-C4C
11	V1	201	CYC	C2C-C3C-CAC-CBC
11	V1	201	CYC	C4C-C3C-CAC-CBC
11	V1	201	CYC	ND-C1D-CHD-C4C
11	V1	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
11	V1	202	CYC	C4C-C3C-CAC-CBC
11	V1	202	CYC	ND-C1D-CHD-C4C
11	V1	202	CYC	C2D-C1D-CHD-C4C
11	X1	201	CYC	C2C-C3C-CAC-CBC
11	X1	201	CYC	C4C-C3C-CAC-CBC
11	X1	201	CYC	ND-C1D-CHD-C4C
11	X1	201	CYC	C2D-C1D-CHD-C4C
11	X1	202	CYC	NA-C4A-CHB-C1B
11	X1	202	CYC	C3A-C4A-CHB-C1B
11	X1	202	CYC	C2D-C1D-CHD-C4C
11	X1	203	CYC	C4C-C3C-CAC-CBC
11	X1	203	CYC	ND-C1D-CHD-C4C
11	X1	203	CYC	C2D-C1D-CHD-C4C
11	Z1	201	CYC	C2C-C3C-CAC-CBC
11	Z1	201	CYC	C4C-C3C-CAC-CBC
11	Z1	201	CYC	ND-C1D-CHD-C4C
11	Z1	201	CYC	C2D-C1D-CHD-C4C
11	Z1	202	CYC	NA-C4A-CHB-C1B
11	Z1	202	CYC	C3A-C4A-CHB-C1B
11	Z1	202	CYC	C2D-C1D-CHD-C4C
11	A2	301	CYC	NA-C4A-CHB-C1B
11	A2	301	CYC	C3A-C4A-CHB-C1B
11	A2	301	CYC	C2C-C3C-CAC-CBC
11	A2	301	CYC	C4C-C3C-CAC-CBC
11	B2	201	CYC	ND-C4D-CHA-C1A
11	B2	201	CYC	C3D-C4D-CHA-C1A
11	B2	201	CYC	NA-C4A-CHB-C1B
11	B2	201	CYC	C3A-C4A-CHB-C1B
11	B2	201	CYC	C4B-C3B-CAB-CBB
11	B2	201	CYC	C2C-C3C-CAC-CBC
11	B2	201	CYC	C4C-C3C-CAC-CBC
11	B2	201	CYC	C3D-CAD-CBD-CGD
11	C2	201	CYC	NA-C4A-CHB-C1B
11	C2	201	CYC	C3A-C4A-CHB-C1B
11	C2	201	CYC	C2C-C3C-CAC-CBC
11	C2	201	CYC	C4C-C3C-CAC-CBC
11	C2	202	CYC	C3A-C2A-CAA-CBA
11	C2	202	CYC	ND-C1D-CHD-C4C
11	C2	202	CYC	C2D-C1D-CHD-C4C
11	C2	202	CYC	C2D-C3D-CAD-CBD
11	C2	202	CYC	C4D-C3D-CAD-CBD
11	D2	201	CYC	ND-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
11	D2	201	CYC	C3D-C4D-CHA-C1A
11	D2	201	CYC	NA-C4A-CHB-C1B
11	D2	201	CYC	C3A-C4A-CHB-C1B
11	D2	201	CYC	C4B-C3B-CAB-CBB
11	D2	201	CYC	C2C-C3C-CAC-CBC
11	D2	201	CYC	C4C-C3C-CAC-CBC
11	D2	201	CYC	C3D-CAD-CBD-CGD
11	E2	201	CYC	NA-C4A-CHB-C1B
11	E2	201	CYC	C3A-C4A-CHB-C1B
11	E2	201	CYC	C2C-C3C-CAC-CBC
11	E2	201	CYC	C4C-C3C-CAC-CBC
11	E2	202	CYC	C3A-C2A-CAA-CBA
11	E2	202	CYC	ND-C1D-CHD-C4C
11	E2	202	CYC	C2D-C1D-CHD-C4C
11	E2	202	CYC	C2D-C3D-CAD-CBD
11	E2	202	CYC	C4D-C3D-CAD-CBD
11	E2	203	CYC	ND-C4D-CHA-C1A
11	E2	203	CYC	C3D-C4D-CHA-C1A
11	E2	203	CYC	NA-C4A-CHB-C1B
11	E2	203	CYC	C3A-C4A-CHB-C1B
11	E2	203	CYC	C4B-C3B-CAB-CBB
11	E2	203	CYC	C2C-C3C-CAC-CBC
11	E2	203	CYC	C4C-C3C-CAC-CBC
11	E2	203	CYC	C3D-CAD-CBD-CGD
11	G2	201	CYC	C3A-C2A-CAA-CBA
11	G2	201	CYC	ND-C1D-CHD-C4C
11	G2	201	CYC	C2D-C1D-CHD-C4C
11	G2	201	CYC	C2D-C3D-CAD-CBD
11	G2	201	CYC	C4D-C3D-CAD-CBD
11	H2	201	CYC	ND-C4D-CHA-C1A
11	H2	201	CYC	C3D-C4D-CHA-C1A
11	H2	201	CYC	NA-C4A-CHB-C1B
11	H2	201	CYC	C3A-C4A-CHB-C1B
11	H2	201	CYC	C4B-C3B-CAB-CBB
11	H2	201	CYC	C2C-C3C-CAC-CBC
11	H2	201	CYC	C4C-C3C-CAC-CBC
11	H2	201	CYC	C3D-CAD-CBD-CGD
11	I2	201	CYC	NA-C4A-CHB-C1B
11	I2	201	CYC	C3A-C4A-CHB-C1B
11	I2	201	CYC	C2C-C3C-CAC-CBC
11	I2	201	CYC	C4C-C3C-CAC-CBC
11	I2	202	CYC	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
11	I2	202	CYC	ND-C1D-CHD-C4C
11	I2	202	CYC	C2D-C1D-CHD-C4C
11	I2	202	CYC	C2D-C3D-CAD-CBD
11	I2	202	CYC	C4D-C3D-CAD-CBD
11	I2	203	CYC	ND-C4D-CHA-C1A
11	I2	203	CYC	C3D-C4D-CHA-C1A
11	I2	203	CYC	NA-C4A-CHB-C1B
11	I2	203	CYC	C3A-C4A-CHB-C1B
11	I2	203	CYC	C4B-C3B-CAB-CBB
11	I2	203	CYC	C2C-C3C-CAC-CBC
11	I2	203	CYC	C4C-C3C-CAC-CBC
11	I2	203	CYC	C3D-CAD-CBD-CGD
11	K2	201	CYC	NA-C4A-CHB-C1B
11	K2	201	CYC	C3A-C4A-CHB-C1B
11	K2	201	CYC	C2C-C3C-CAC-CBC
11	K2	201	CYC	C4C-C3C-CAC-CBC
11	K2	202	CYC	C3A-C2A-CAA-CBA
11	K2	202	CYC	ND-C1D-CHD-C4C
11	K2	202	CYC	C2D-C1D-CHD-C4C
11	K2	202	CYC	C2D-C3D-CAD-CBD
11	K2	202	CYC	C4D-C3D-CAD-CBD
11	K2	203	CYC	ND-C4D-CHA-C1A
11	K2	203	CYC	C3D-C4D-CHA-C1A
11	K2	203	CYC	NA-C4A-CHB-C1B
11	K2	203	CYC	C3A-C4A-CHB-C1B
11	K2	203	CYC	C4B-C3B-CAB-CBB
11	K2	203	CYC	C2C-C3C-CAC-CBC
11	K2	203	CYC	C4C-C3C-CAC-CBC
11	K2	203	CYC	C3D-CAD-CBD-CGD
11	M2	201	CYC	NA-C4A-CHB-C1B
11	M2	201	CYC	C3A-C4A-CHB-C1B
11	M2	201	CYC	C2C-C3C-CAC-CBC
11	M2	201	CYC	C4C-C3C-CAC-CBC
11	M2	202	CYC	C3A-C2A-CAA-CBA
11	M2	202	CYC	ND-C1D-CHD-C4C
11	M2	202	CYC	C2D-C1D-CHD-C4C
11	M2	202	CYC	C2D-C3D-CAD-CBD
11	M2	202	CYC	C4D-C3D-CAD-CBD
11	N2	301	CYC	NA-C4A-CHB-C1B
11	N2	301	CYC	C3A-C4A-CHB-C1B
11	N2	301	CYC	C2C-C3C-CAC-CBC
11	N2	301	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
11	N2	302	CYC	NA-C4A-CHB-C1B
11	N2	302	CYC	C3A-C4A-CHB-C1B
11	N2	302	CYC	C2C-C3C-CAC-CBC
11	N2	302	CYC	C4C-C3C-CAC-CBC
11	P2	201	CYC	NA-C4A-CHB-C1B
11	P2	201	CYC	C3A-C4A-CHB-C1B
11	P2	201	CYC	C2C-C3C-CAC-CBC
11	P2	201	CYC	C4C-C3C-CAC-CBC
11	P2	202	CYC	C3A-C2A-CAA-CBA
11	P2	202	CYC	ND-C1D-CHD-C4C
11	P2	202	CYC	C2D-C1D-CHD-C4C
11	P2	202	CYC	C2D-C3D-CAD-CBD
11	P2	202	CYC	C4D-C3D-CAD-CBD
11	Q2	201	CYC	ND-C4D-CHA-C1A
11	Q2	201	CYC	C3D-C4D-CHA-C1A
11	Q2	201	CYC	NA-C4A-CHB-C1B
11	Q2	201	CYC	C3A-C4A-CHB-C1B
11	Q2	201	CYC	C4B-C3B-CAB-CBB
11	Q2	201	CYC	C2C-C3C-CAC-CBC
11	Q2	201	CYC	C4C-C3C-CAC-CBC
11	Q2	201	CYC	C3D-CAD-CBD-CGD
11	R2	201	CYC	C3A-C2A-CAA-CBA
11	R2	201	CYC	ND-C1D-CHD-C4C
11	R2	201	CYC	C2D-C1D-CHD-C4C
11	R2	201	CYC	C2D-C3D-CAD-CBD
11	R2	201	CYC	C4D-C3D-CAD-CBD
11	S2	201	CYC	ND-C4D-CHA-C1A
11	S2	201	CYC	C3D-C4D-CHA-C1A
11	S2	201	CYC	NA-C4A-CHB-C1B
11	S2	201	CYC	C3A-C4A-CHB-C1B
11	S2	201	CYC	C4B-C3B-CAB-CBB
11	S2	201	CYC	C2C-C3C-CAC-CBC
11	S2	201	CYC	C4C-C3C-CAC-CBC
11	S2	201	CYC	C3D-CAD-CBD-CGD
11	T2	201	CYC	ND-C4D-CHA-C1A
11	T2	201	CYC	C3D-C4D-CHA-C1A
11	T2	201	CYC	NA-C4A-CHB-C1B
11	T2	201	CYC	C3A-C4A-CHB-C1B
11	T2	201	CYC	C4B-C3B-CAB-CBB
11	T2	201	CYC	C2C-C3C-CAC-CBC
11	T2	201	CYC	C4C-C3C-CAC-CBC
11	T2	201	CYC	C3D-CAD-CBD-CGD

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Mol	Chain	Res	Type	Atoms
11	T2	202	CYC	C3A-C2A-CAA-CBA
11	T2	202	CYC	ND-C1D-CHD-C4C
11	T2	202	CYC	C2D-C1D-CHD-C4C
11	T2	202	CYC	C2D-C3D-CAD-CBD
11	T2	202	CYC	C4D-C3D-CAD-CBD
11	V2	201	CYC	NA-C4A-CHB-C1B
11	V2	201	CYC	C3A-C4A-CHB-C1B
11	V2	201	CYC	C2C-C3C-CAC-CBC
11	V2	201	CYC	C4C-C3C-CAC-CBC
11	V2	202	CYC	C3A-C2A-CAA-CBA
11	V2	202	CYC	ND-C1D-CHD-C4C
11	V2	202	CYC	C2D-C1D-CHD-C4C
11	V2	202	CYC	C2D-C3D-CAD-CBD
11	V2	202	CYC	C4D-C3D-CAD-CBD
11	W2	201	CYC	ND-C4D-CHA-C1A
11	W2	201	CYC	C3D-C4D-CHA-C1A
11	W2	201	CYC	NA-C4A-CHB-C1B
11	W2	201	CYC	C3A-C4A-CHB-C1B
11	W2	201	CYC	C4B-C3B-CAB-CBB
11	W2	201	CYC	C2C-C3C-CAC-CBC
11	W2	201	CYC	C4C-C3C-CAC-CBC
11	W2	201	CYC	C3D-CAD-CBD-CGD
11	X2	201	CYC	NA-C4A-CHB-C1B
11	X2	201	CYC	C3A-C4A-CHB-C1B
11	X2	201	CYC	C2C-C3C-CAC-CBC
11	X2	201	CYC	C4C-C3C-CAC-CBC
11	X2	202	CYC	C3A-C2A-CAA-CBA
11	X2	202	CYC	ND-C1D-CHD-C4C
11	X2	202	CYC	C2D-C1D-CHD-C4C
11	X2	202	CYC	C2D-C3D-CAD-CBD
11	X2	202	CYC	C4D-C3D-CAD-CBD
11	X2	203	CYC	ND-C4D-CHA-C1A
11	X2	203	CYC	C3D-C4D-CHA-C1A
11	X2	203	CYC	NA-C4A-CHB-C1B
11	X2	203	CYC	C3A-C4A-CHB-C1B
11	X2	203	CYC	C4B-C3B-CAB-CBB
11	X2	203	CYC	C2C-C3C-CAC-CBC
11	X2	203	CYC	C4C-C3C-CAC-CBC
11	X2	203	CYC	C3D-CAD-CBD-CGD
11	Z2	201	CYC	ND-C4D-CHA-C1A
11	Z2	201	CYC	C3D-C4D-CHA-C1A
11	Z2	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	Z2	201	CYC	C3A-C4A-CHB-C1B
11	Z2	201	CYC	C4B-C3B-CAB-CBB
11	Z2	201	CYC	C2C-C3C-CAC-CBC
11	Z2	201	CYC	C4C-C3C-CAC-CBC
11	Z2	201	CYC	C3D-CAD-CBD-CGD
11	Z2	202	CYC	NA-C4A-CHB-C1B
11	Z2	202	CYC	C3A-C4A-CHB-C1B
11	Z2	202	CYC	C2C-C3C-CAC-CBC
11	Z2	202	CYC	C4C-C3C-CAC-CBC
11	Z2	203	CYC	C3A-C2A-CAA-CBA
11	Z2	203	CYC	ND-C1D-CHD-C4C
11	Z2	203	CYC	C2D-C1D-CHD-C4C
11	Z2	203	CYC	C2D-C3D-CAD-CBD
11	Z2	203	CYC	C4D-C3D-CAD-CBD
11	03	901	CYC	NA-C4A-CHB-C1B
11	03	901	CYC	C3A-C4A-CHB-C1B
11	03	901	CYC	ND-C1D-CHD-C4C
11	03	901	CYC	C2D-C1D-CHD-C4C
11	13	901	CYC	NA-C4A-CHB-C1B
11	13	901	CYC	C3A-C4A-CHB-C1B
11	13	901	CYC	ND-C1D-CHD-C4C
11	13	901	CYC	C2D-C1D-CHD-C4C
11	G3	1001	CYC	C2C-C3C-CAC-CBC
11	G3	1001	CYC	C4C-C3C-CAC-CBC
11	G3	1001	CYC	ND-C1D-CHD-C4C
11	I3	1001	CYC	C2C-C3C-CAC-CBC
11	I3	1001	CYC	C4C-C3C-CAC-CBC
11	I3	1001	CYC	ND-C1D-CHD-C4C
11	K3	1001	CYC	C2C-C3C-CAC-CBC
11	K3	1001	CYC	C4C-C3C-CAC-CBC
11	K3	1001	CYC	ND-C1D-CHD-C4C
11	N3	1001	CYC	C2C-C3C-CAC-CBC
11	N3	1001	CYC	C4C-C3C-CAC-CBC
11	N3	1001	CYC	ND-C1D-CHD-C4C
11	P3	1001	CYC	C2C-C3C-CAC-CBC
11	P3	1001	CYC	C4C-C3C-CAC-CBC
11	P3	1001	CYC	ND-C1D-CHD-C4C
11	Q3	1001	CYC	ND-C1D-CHD-C4C
11	R3	1001	CYC	C2C-C3C-CAC-CBC
11	R3	1001	CYC	C4C-C3C-CAC-CBC
11	R3	1001	CYC	ND-C1D-CHD-C4C
11	T3	1001	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
11	T3	1001	CYC	C4C-C3C-CAC-CBC
11	T3	1001	CYC	ND-C1D-CHD-C4C
11	V3	201	CYC	C2C-C3C-CAC-CBC
11	V3	201	CYC	C4C-C3C-CAC-CBC
11	V3	201	CYC	ND-C1D-CHD-C4C
11	V3	201	CYC	C2D-C1D-CHD-C4C
11	X3	1001	CYC	C2C-C3C-CAC-CBC
11	X3	1001	CYC	C4C-C3C-CAC-CBC
11	X3	1001	CYC	ND-C1D-CHD-C4C
11	Z3	1001	CYC	C2C-C3C-CAC-CBC
11	Z3	1001	CYC	C4C-C3C-CAC-CBC
11	Z3	1001	CYC	ND-C1D-CHD-C4C
11	b3	1001	CYC	C2C-C3C-CAC-CBC
11	b3	1001	CYC	C4C-C3C-CAC-CBC
11	b3	1001	CYC	ND-C1D-CHD-C4C
11	d3	1001	CYC	C2C-C3C-CAC-CBC
11	d3	1001	CYC	C4C-C3C-CAC-CBC
11	d3	1001	CYC	ND-C1D-CHD-C4C
11	f3	1001	CYC	C2C-C3C-CAC-CBC
11	f3	1001	CYC	C4C-C3C-CAC-CBC
11	f3	1001	CYC	ND-C1D-CHD-C4C
11	g3	1001	CYC	ND-C1D-CHD-C4C
11	i3	1001	CYC	C2C-C3C-CAC-CBC
11	i3	1001	CYC	C4C-C3C-CAC-CBC
11	i3	1001	CYC	ND-C1D-CHD-C4C
11	k3	1001	CYC	C2C-C3C-CAC-CBC
11	k3	1001	CYC	C4C-C3C-CAC-CBC
11	k3	1001	CYC	ND-C1D-CHD-C4C
11	m3	201	CYC	C2C-C3C-CAC-CBC
11	m3	201	CYC	C4C-C3C-CAC-CBC
11	m3	201	CYC	ND-C1D-CHD-C4C
11	m3	201	CYC	C2D-C1D-CHD-C4C
11	o3	1001	CYC	C2C-C3C-CAC-CBC
11	o3	1001	CYC	C4C-C3C-CAC-CBC
11	o3	1001	CYC	ND-C1D-CHD-C4C
11	q3	1001	CYC	C2C-C3C-CAC-CBC
11	q3	1001	CYC	C4C-C3C-CAC-CBC
11	q3	1001	CYC	ND-C1D-CHD-C4C
11	s3	1001	CYC	C2C-C3C-CAC-CBC
11	s3	1001	CYC	C4C-C3C-CAC-CBC
11	s3	1001	CYC	ND-C1D-CHD-C4C
11	u3	1001	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
11	u3	1001	CYC	C4C-C3C-CAC-CBC
11	u3	1001	CYC	ND-C1D-CHD-C4C
11	w3	1001	CYC	C2C-C3C-CAC-CBC
11	w3	1001	CYC	C4C-C3C-CAC-CBC
11	w3	1001	CYC	ND-C1D-CHD-C4C
11	y3	1001	CYC	C2C-C3C-CAC-CBC
11	y3	1001	CYC	C4C-C3C-CAC-CBC
11	y3	1001	CYC	ND-C1D-CHD-C4C
11	A4	301	CYC	NA-C4A-CHB-C1B
11	A4	301	CYC	C2C-C3C-CAC-CBC
11	A4	301	CYC	C4C-C3C-CAC-CBC
11	A4	301	CYC	ND-C1D-CHD-C4C
11	A4	301	CYC	C2D-C1D-CHD-C4C
11	C4	201	CYC	C3A-C2A-CAA-CBA
11	C4	201	CYC	ND-C1D-CHD-C4C
11	C4	201	CYC	C2D-C1D-CHD-C4C
11	C4	201	CYC	C2D-C3D-CAD-CBD
11	C4	201	CYC	C4D-C3D-CAD-CBD
11	D4	201	CYC	NA-C4A-CHB-C1B
11	D4	201	CYC	C3A-C4A-CHB-C1B
11	D4	201	CYC	C2B-C3B-CAB-CBB
11	D4	201	CYC	C4C-C3C-CAC-CBC
11	D4	201	CYC	C2D-C1D-CHD-C4C
11	D4	201	CYC	C2D-C3D-CAD-CBD
11	E4	201	CYC	NA-C4A-CHB-C1B
11	E4	201	CYC	C2C-C3C-CAC-CBC
11	E4	201	CYC	C4C-C3C-CAC-CBC
11	E4	201	CYC	ND-C1D-CHD-C4C
11	E4	201	CYC	C2D-C1D-CHD-C4C
11	E4	202	CYC	C3A-C2A-CAA-CBA
11	E4	202	CYC	ND-C1D-CHD-C4C
11	E4	202	CYC	C2D-C1D-CHD-C4C
11	E4	202	CYC	C2D-C3D-CAD-CBD
11	E4	202	CYC	C4D-C3D-CAD-CBD
11	E4	203	CYC	NA-C4A-CHB-C1B
11	E4	203	CYC	C3A-C4A-CHB-C1B
11	E4	203	CYC	C2B-C3B-CAB-CBB
11	E4	203	CYC	C4C-C3C-CAC-CBC
11	E4	203	CYC	C2D-C1D-CHD-C4C
11	E4	203	CYC	C2D-C3D-CAD-CBD
11	F4	201	CYC	C3A-C2A-CAA-CBA
11	F4	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
11	F4	201	CYC	C2D-C1D-CHD-C4C
11	F4	201	CYC	C2D-C3D-CAD-CBD
11	F4	201	CYC	C4D-C3D-CAD-CBD
11	G4	201	CYC	NA-C4A-CHB-C1B
11	G4	201	CYC	C3A-C4A-CHB-C1B
11	G4	201	CYC	C2B-C3B-CAB-CBB
11	G4	201	CYC	C4C-C3C-CAC-CBC
11	G4	201	CYC	C2D-C1D-CHD-C4C
11	G4	201	CYC	C2D-C3D-CAD-CBD
11	G4	202	CYC	NA-C4A-CHB-C1B
11	G4	202	CYC	C2C-C3C-CAC-CBC
11	G4	202	CYC	C4C-C3C-CAC-CBC
11	G4	202	CYC	ND-C1D-CHD-C4C
11	G4	202	CYC	C2D-C1D-CHD-C4C
11	I4	201	CYC	NA-C4A-CHB-C1B
11	I4	201	CYC	C2C-C3C-CAC-CBC
11	I4	201	CYC	C4C-C3C-CAC-CBC
11	I4	201	CYC	ND-C1D-CHD-C4C
11	I4	201	CYC	C2D-C1D-CHD-C4C
11	I4	202	CYC	C3A-C2A-CAA-CBA
11	I4	202	CYC	ND-C1D-CHD-C4C
11	I4	202	CYC	C2D-C1D-CHD-C4C
11	I4	202	CYC	C2D-C3D-CAD-CBD
11	I4	202	CYC	C4D-C3D-CAD-CBD
11	I4	203	CYC	NA-C4A-CHB-C1B
11	I4	203	CYC	C3A-C4A-CHB-C1B
11	I4	203	CYC	C2B-C3B-CAB-CBB
11	I4	203	CYC	C4C-C3C-CAC-CBC
11	I4	203	CYC	C2D-C1D-CHD-C4C
11	I4	203	CYC	C2D-C3D-CAD-CBD
11	K4	201	CYC	NA-C4A-CHB-C1B
11	K4	201	CYC	C2C-C3C-CAC-CBC
11	K4	201	CYC	C4C-C3C-CAC-CBC
11	K4	201	CYC	ND-C1D-CHD-C4C
11	K4	201	CYC	C2D-C1D-CHD-C4C
11	K4	202	CYC	C3A-C2A-CAA-CBA
11	K4	202	CYC	ND-C1D-CHD-C4C
11	K4	202	CYC	C2D-C1D-CHD-C4C
11	K4	202	CYC	C2D-C3D-CAD-CBD
11	K4	202	CYC	C4D-C3D-CAD-CBD
11	L4	201	CYC	NA-C4A-CHB-C1B
11	L4	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	L4	201	CYC	C2B-C3B-CAB-CBB
11	L4	201	CYC	C4C-C3C-CAC-CBC
11	L4	201	CYC	C2D-C1D-CHD-C4C
11	L4	201	CYC	C2D-C3D-CAD-CBD
11	L4	202	CYC	C3A-C2A-CAA-CBA
11	L4	202	CYC	ND-C1D-CHD-C4C
11	L4	202	CYC	C2D-C1D-CHD-C4C
11	L4	202	CYC	C2D-C3D-CAD-CBD
11	L4	202	CYC	C4D-C3D-CAD-CBD
11	M4	201	CYC	NA-C4A-CHB-C1B
11	M4	201	CYC	C3A-C4A-CHB-C1B
11	M4	201	CYC	C2B-C3B-CAB-CBB
11	M4	201	CYC	C4C-C3C-CAC-CBC
11	M4	201	CYC	C2D-C1D-CHD-C4C
11	M4	201	CYC	C2D-C3D-CAD-CBD
11	M4	202	CYC	NA-C4A-CHB-C1B
11	M4	202	CYC	C2C-C3C-CAC-CBC
11	M4	202	CYC	C4C-C3C-CAC-CBC
11	M4	202	CYC	ND-C1D-CHD-C4C
11	M4	202	CYC	C2D-C1D-CHD-C4C
11	N4	301	CYC	NA-C4A-CHB-C1B
11	N4	301	CYC	C2C-C3C-CAC-CBC
11	N4	301	CYC	C4C-C3C-CAC-CBC
11	N4	301	CYC	ND-C1D-CHD-C4C
11	N4	301	CYC	C2D-C1D-CHD-C4C
11	O4	201	CYC	NA-C4A-CHB-C1B
11	O4	201	CYC	C3A-C4A-CHB-C1B
11	O4	201	CYC	C2B-C3B-CAB-CBB
11	O4	201	CYC	C4C-C3C-CAC-CBC
11	O4	201	CYC	C2D-C1D-CHD-C4C
11	O4	201	CYC	C2D-C3D-CAD-CBD
11	P4	201	CYC	NA-C4A-CHB-C1B
11	P4	201	CYC	C2C-C3C-CAC-CBC
11	P4	201	CYC	C4C-C3C-CAC-CBC
11	P4	201	CYC	ND-C1D-CHD-C4C
11	P4	201	CYC	C2D-C1D-CHD-C4C
11	P4	202	CYC	C3A-C2A-CAA-CBA
11	P4	202	CYC	ND-C1D-CHD-C4C
11	P4	202	CYC	C2D-C1D-CHD-C4C
11	P4	202	CYC	C2D-C3D-CAD-CBD
11	P4	202	CYC	C4D-C3D-CAD-CBD
11	P4	203	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	P4	203	CYC	C3A-C4A-CHB-C1B
11	P4	203	CYC	C2B-C3B-CAB-CBB
11	P4	203	CYC	C4C-C3C-CAC-CBC
11	P4	203	CYC	C2D-C1D-CHD-C4C
11	P4	203	CYC	C2D-C3D-CAD-CBD
11	R4	201	CYC	C3A-C2A-CAA-CBA
11	R4	201	CYC	ND-C1D-CHD-C4C
11	R4	201	CYC	C2D-C1D-CHD-C4C
11	R4	201	CYC	C2D-C3D-CAD-CBD
11	R4	201	CYC	C4D-C3D-CAD-CBD
11	S4	201	CYC	NA-C4A-CHB-C1B
11	S4	201	CYC	C3A-C4A-CHB-C1B
11	S4	201	CYC	C2B-C3B-CAB-CBB
11	S4	201	CYC	C4C-C3C-CAC-CBC
11	S4	201	CYC	C2D-C1D-CHD-C4C
11	S4	201	CYC	C2D-C3D-CAD-CBD
11	T4	201	CYC	NA-C4A-CHB-C1B
11	T4	201	CYC	C2C-C3C-CAC-CBC
11	T4	201	CYC	C4C-C3C-CAC-CBC
11	T4	201	CYC	ND-C1D-CHD-C4C
11	T4	201	CYC	C2D-C1D-CHD-C4C
11	T4	202	CYC	C3A-C2A-CAA-CBA
11	T4	202	CYC	ND-C1D-CHD-C4C
11	T4	202	CYC	C2D-C1D-CHD-C4C
11	T4	202	CYC	C2D-C3D-CAD-CBD
11	T4	202	CYC	C4D-C3D-CAD-CBD
11	U4	201	CYC	NA-C4A-CHB-C1B
11	U4	201	CYC	C3A-C4A-CHB-C1B
11	U4	201	CYC	C2B-C3B-CAB-CBB
11	U4	201	CYC	C4C-C3C-CAC-CBC
11	U4	201	CYC	C2D-C1D-CHD-C4C
11	U4	201	CYC	C2D-C3D-CAD-CBD
11	V4	201	CYC	NA-C4A-CHB-C1B
11	V4	201	CYC	C2C-C3C-CAC-CBC
11	V4	201	CYC	C4C-C3C-CAC-CBC
11	V4	201	CYC	ND-C1D-CHD-C4C
11	V4	201	CYC	C2D-C1D-CHD-C4C
11	V4	202	CYC	C3A-C2A-CAA-CBA
11	V4	202	CYC	ND-C1D-CHD-C4C
11	V4	202	CYC	C2D-C1D-CHD-C4C
11	V4	202	CYC	C2D-C3D-CAD-CBD
11	V4	202	CYC	C4D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
11	W4	201	CYC	NA-C4A-CHB-C1B
11	W4	201	CYC	C3A-C4A-CHB-C1B
11	W4	201	CYC	C2B-C3B-CAB-CBB
11	W4	201	CYC	C4C-C3C-CAC-CBC
11	W4	201	CYC	C2D-C1D-CHD-C4C
11	W4	201	CYC	C2D-C3D-CAD-CBD
11	X4	201	CYC	NA-C4A-CHB-C1B
11	X4	201	CYC	C2C-C3C-CAC-CBC
11	X4	201	CYC	C4C-C3C-CAC-CBC
11	X4	201	CYC	ND-C1D-CHD-C4C
11	X4	201	CYC	C2D-C1D-CHD-C4C
11	X4	202	CYC	C3A-C2A-CAA-CBA
11	X4	202	CYC	ND-C1D-CHD-C4C
11	X4	202	CYC	C2D-C1D-CHD-C4C
11	X4	202	CYC	C2D-C3D-CAD-CBD
11	X4	202	CYC	C4D-C3D-CAD-CBD
11	Y4	201	CYC	NA-C4A-CHB-C1B
11	Y4	201	CYC	C3A-C4A-CHB-C1B
11	Y4	201	CYC	C2B-C3B-CAB-CBB
11	Y4	201	CYC	C4C-C3C-CAC-CBC
11	Y4	201	CYC	C2D-C1D-CHD-C4C
11	Y4	201	CYC	C2D-C3D-CAD-CBD
11	Z4	201	CYC	NA-C4A-CHB-C1B
11	Z4	201	CYC	C2C-C3C-CAC-CBC
11	Z4	201	CYC	C4C-C3C-CAC-CBC
11	Z4	201	CYC	ND-C1D-CHD-C4C
11	Z4	201	CYC	C2D-C1D-CHD-C4C
11	Z4	202	CYC	C3A-C2A-CAA-CBA
11	Z4	202	CYC	ND-C1D-CHD-C4C
11	Z4	202	CYC	C2D-C1D-CHD-C4C
11	Z4	202	CYC	C2D-C3D-CAD-CBD
11	Z4	202	CYC	C4D-C3D-CAD-CBD
11	A5	301	CYC	C2C-C3C-CAC-CBC
11	A5	301	CYC	C4C-C3C-CAC-CBC
11	A5	301	CYC	ND-C1D-CHD-C4C
11	A5	301	CYC	C2D-C1D-CHD-C4C
11	A5	302	CYC	C2C-C3C-CAC-CBC
11	A5	302	CYC	C4C-C3C-CAC-CBC
11	A5	302	CYC	ND-C1D-CHD-C4C
11	A5	302	CYC	C2D-C1D-CHD-C4C
11	B5	201	CYC	C4C-C3C-CAC-CBC
11	B5	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
11	B5	201	CYC	C2D-C1D-CHD-C4C
11	C5	201	CYC	NA-C4A-CHB-C1B
11	C5	201	CYC	C3A-C4A-CHB-C1B
11	C5	201	CYC	C2D-C1D-CHD-C4C
11	C5	202	CYC	C4C-C3C-CAC-CBC
11	C5	202	CYC	ND-C1D-CHD-C4C
11	C5	202	CYC	C2D-C1D-CHD-C4C
11	D5	201	CYC	NA-C4A-CHB-C1B
11	D5	201	CYC	C3A-C4A-CHB-C1B
11	D5	201	CYC	C2D-C1D-CHD-C4C
11	F5	201	CYC	C4C-C3C-CAC-CBC
11	F5	201	CYC	ND-C1D-CHD-C4C
11	F5	201	CYC	C2D-C1D-CHD-C4C
11	G5	201	CYC	C2C-C3C-CAC-CBC
11	G5	201	CYC	C4C-C3C-CAC-CBC
11	G5	201	CYC	ND-C1D-CHD-C4C
11	G5	201	CYC	C2D-C1D-CHD-C4C
11	G5	202	CYC	NA-C4A-CHB-C1B
11	G5	202	CYC	C3A-C4A-CHB-C1B
11	G5	202	CYC	C2D-C1D-CHD-C4C
11	H5	201	CYC	C4C-C3C-CAC-CBC
11	H5	201	CYC	ND-C1D-CHD-C4C
11	H5	201	CYC	C2D-C1D-CHD-C4C
11	I5	201	CYC	C2C-C3C-CAC-CBC
11	I5	201	CYC	C4C-C3C-CAC-CBC
11	I5	201	CYC	ND-C1D-CHD-C4C
11	I5	201	CYC	C2D-C1D-CHD-C4C
11	I5	202	CYC	NA-C4A-CHB-C1B
11	I5	202	CYC	C3A-C4A-CHB-C1B
11	I5	202	CYC	C2D-C1D-CHD-C4C
11	J5	201	CYC	C4C-C3C-CAC-CBC
11	J5	201	CYC	ND-C1D-CHD-C4C
11	J5	201	CYC	C2D-C1D-CHD-C4C
11	K5	201	CYC	C2C-C3C-CAC-CBC
11	K5	201	CYC	C4C-C3C-CAC-CBC
11	K5	201	CYC	ND-C1D-CHD-C4C
11	K5	201	CYC	C2D-C1D-CHD-C4C
11	K5	202	CYC	NA-C4A-CHB-C1B
11	K5	202	CYC	C3A-C4A-CHB-C1B
11	K5	202	CYC	C2D-C1D-CHD-C4C
11	L5	201	CYC	C4C-C3C-CAC-CBC
11	L5	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
11	L5	201	CYC	C2D-C1D-CHD-C4C
11	M5	201	CYC	C2C-C3C-CAC-CBC
11	M5	201	CYC	C4C-C3C-CAC-CBC
11	M5	201	CYC	ND-C1D-CHD-C4C
11	M5	201	CYC	C2D-C1D-CHD-C4C
11	M5	202	CYC	NA-C4A-CHB-C1B
11	M5	202	CYC	C3A-C4A-CHB-C1B
11	M5	202	CYC	C2D-C1D-CHD-C4C
11	N5	301	CYC	C2C-C3C-CAC-CBC
11	N5	301	CYC	C4C-C3C-CAC-CBC
11	N5	301	CYC	ND-C1D-CHD-C4C
11	N5	301	CYC	C2D-C1D-CHD-C4C
11	O5	201	CYC	C4C-C3C-CAC-CBC
11	O5	201	CYC	ND-C1D-CHD-C4C
11	O5	201	CYC	C2D-C1D-CHD-C4C
11	P5	201	CYC	C2C-C3C-CAC-CBC
11	P5	201	CYC	C4C-C3C-CAC-CBC
11	P5	201	CYC	ND-C1D-CHD-C4C
11	P5	201	CYC	C2D-C1D-CHD-C4C
11	P5	202	CYC	NA-C4A-CHB-C1B
11	P5	202	CYC	C3A-C4A-CHB-C1B
11	P5	202	CYC	C2D-C1D-CHD-C4C
11	Q5	201	CYC	C4C-C3C-CAC-CBC
11	Q5	201	CYC	ND-C1D-CHD-C4C
11	Q5	201	CYC	C2D-C1D-CHD-C4C
11	R5	201	CYC	C2C-C3C-CAC-CBC
11	R5	201	CYC	C4C-C3C-CAC-CBC
11	R5	201	CYC	ND-C1D-CHD-C4C
11	R5	201	CYC	C2D-C1D-CHD-C4C
11	R5	202	CYC	NA-C4A-CHB-C1B
11	R5	202	CYC	C3A-C4A-CHB-C1B
11	R5	202	CYC	C2D-C1D-CHD-C4C
11	S5	201	CYC	C4C-C3C-CAC-CBC
11	S5	201	CYC	ND-C1D-CHD-C4C
11	S5	201	CYC	C2D-C1D-CHD-C4C
11	T5	201	CYC	NA-C4A-CHB-C1B
11	T5	201	CYC	C3A-C4A-CHB-C1B
11	T5	201	CYC	C2D-C1D-CHD-C4C
11	U5	201	CYC	C4C-C3C-CAC-CBC
11	U5	201	CYC	ND-C1D-CHD-C4C
11	U5	201	CYC	C2D-C1D-CHD-C4C
11	U5	202	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	U5	202	CYC	C3A-C4A-CHB-C1B
11	U5	202	CYC	C2D-C1D-CHD-C4C
11	V5	201	CYC	C2C-C3C-CAC-CBC
11	V5	201	CYC	C4C-C3C-CAC-CBC
11	V5	201	CYC	ND-C1D-CHD-C4C
11	V5	201	CYC	C2D-C1D-CHD-C4C
11	V5	202	CYC	C4C-C3C-CAC-CBC
11	V5	202	CYC	ND-C1D-CHD-C4C
11	V5	202	CYC	C2D-C1D-CHD-C4C
11	X5	201	CYC	C2C-C3C-CAC-CBC
11	X5	201	CYC	C4C-C3C-CAC-CBC
11	X5	201	CYC	ND-C1D-CHD-C4C
11	X5	201	CYC	C2D-C1D-CHD-C4C
11	X5	202	CYC	NA-C4A-CHB-C1B
11	X5	202	CYC	C3A-C4A-CHB-C1B
11	X5	202	CYC	C2D-C1D-CHD-C4C
11	X5	203	CYC	C4C-C3C-CAC-CBC
11	X5	203	CYC	ND-C1D-CHD-C4C
11	X5	203	CYC	C2D-C1D-CHD-C4C
11	Z5	201	CYC	C2C-C3C-CAC-CBC
11	Z5	201	CYC	C4C-C3C-CAC-CBC
11	Z5	201	CYC	ND-C1D-CHD-C4C
11	Z5	201	CYC	C2D-C1D-CHD-C4C
11	Z5	202	CYC	NA-C4A-CHB-C1B
11	Z5	202	CYC	C3A-C4A-CHB-C1B
11	Z5	202	CYC	C2D-C1D-CHD-C4C
11	A6	301	CYC	NA-C4A-CHB-C1B
11	A6	301	CYC	C3A-C4A-CHB-C1B
11	A6	301	CYC	C2C-C3C-CAC-CBC
11	A6	301	CYC	C4C-C3C-CAC-CBC
11	B6	201	CYC	ND-C4D-CHA-C1A
11	B6	201	CYC	C3D-C4D-CHA-C1A
11	B6	201	CYC	NA-C4A-CHB-C1B
11	B6	201	CYC	C3A-C4A-CHB-C1B
11	B6	201	CYC	C4B-C3B-CAB-CBB
11	B6	201	CYC	C2C-C3C-CAC-CBC
11	B6	201	CYC	C4C-C3C-CAC-CBC
11	B6	201	CYC	C3D-CAD-CBD-CGD
11	C6	201	CYC	NA-C4A-CHB-C1B
11	C6	201	CYC	C3A-C4A-CHB-C1B
11	C6	201	CYC	C2C-C3C-CAC-CBC
11	C6	201	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
11	C6	202	CYC	C3A-C2A-CAA-CBA
11	C6	202	CYC	ND-C1D-CHD-C4C
11	C6	202	CYC	C2D-C1D-CHD-C4C
11	C6	202	CYC	C2D-C3D-CAD-CBD
11	C6	202	CYC	C4D-C3D-CAD-CBD
11	C6	203	CYC	ND-C4D-CHA-C1A
11	C6	203	CYC	C3D-C4D-CHA-C1A
11	C6	203	CYC	NA-C4A-CHB-C1B
11	C6	203	CYC	C3A-C4A-CHB-C1B
11	C6	203	CYC	C4B-C3B-CAB-CBB
11	C6	203	CYC	C2C-C3C-CAC-CBC
11	C6	203	CYC	C4C-C3C-CAC-CBC
11	C6	203	CYC	C3D-CAD-CBD-CGD
11	E6	201	CYC	NA-C4A-CHB-C1B
11	E6	201	CYC	C3A-C4A-CHB-C1B
11	E6	201	CYC	C2C-C3C-CAC-CBC
11	E6	201	CYC	C4C-C3C-CAC-CBC
11	E6	202	CYC	C3A-C2A-CAA-CBA
11	E6	202	CYC	ND-C1D-CHD-C4C
11	E6	202	CYC	C2D-C1D-CHD-C4C
11	E6	202	CYC	C2D-C3D-CAD-CBD
11	E6	202	CYC	C4D-C3D-CAD-CBD
11	F6	201	CYC	ND-C4D-CHA-C1A
11	F6	201	CYC	C3D-C4D-CHA-C1A
11	F6	201	CYC	NA-C4A-CHB-C1B
11	F6	201	CYC	C3A-C4A-CHB-C1B
11	F6	201	CYC	C4B-C3B-CAB-CBB
11	F6	201	CYC	C2C-C3C-CAC-CBC
11	F6	201	CYC	C4C-C3C-CAC-CBC
11	F6	201	CYC	C3D-CAD-CBD-CGD
11	G6	201	CYC	C3A-C2A-CAA-CBA
11	G6	201	CYC	ND-C1D-CHD-C4C
11	G6	201	CYC	C2D-C1D-CHD-C4C
11	G6	201	CYC	C2D-C3D-CAD-CBD
11	G6	201	CYC	C4D-C3D-CAD-CBD
11	H6	201	CYC	ND-C4D-CHA-C1A
11	H6	201	CYC	C3D-C4D-CHA-C1A
11	H6	201	CYC	NA-C4A-CHB-C1B
11	H6	201	CYC	C3A-C4A-CHB-C1B
11	H6	201	CYC	C4B-C3B-CAB-CBB
11	H6	201	CYC	C2C-C3C-CAC-CBC
11	H6	201	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
11	H6	201	CYC	C3D-CAD-CBD-CGD
11	I6	201	CYC	NA-C4A-CHB-C1B
11	I6	201	CYC	C3A-C4A-CHB-C1B
11	I6	201	CYC	C2C-C3C-CAC-CBC
11	I6	201	CYC	C4C-C3C-CAC-CBC
11	I6	202	CYC	C3A-C2A-CAA-CBA
11	I6	202	CYC	ND-C1D-CHD-C4C
11	I6	202	CYC	C2D-C1D-CHD-C4C
11	I6	202	CYC	C2D-C3D-CAD-CBD
11	I6	202	CYC	C4D-C3D-CAD-CBD
11	J6	201	CYC	ND-C4D-CHA-C1A
11	J6	201	CYC	C3D-C4D-CHA-C1A
11	J6	201	CYC	NA-C4A-CHB-C1B
11	J6	201	CYC	C3A-C4A-CHB-C1B
11	J6	201	CYC	C4B-C3B-CAB-CBB
11	J6	201	CYC	C2C-C3C-CAC-CBC
11	J6	201	CYC	C4C-C3C-CAC-CBC
11	J6	201	CYC	C3D-CAD-CBD-CGD
11	K6	201	CYC	NA-C4A-CHB-C1B
11	K6	201	CYC	C3A-C4A-CHB-C1B
11	K6	201	CYC	C2C-C3C-CAC-CBC
11	K6	201	CYC	C4C-C3C-CAC-CBC
11	K6	202	CYC	C3A-C2A-CAA-CBA
11	K6	202	CYC	ND-C1D-CHD-C4C
11	K6	202	CYC	C2D-C1D-CHD-C4C
11	K6	202	CYC	C2D-C3D-CAD-CBD
11	K6	202	CYC	C4D-C3D-CAD-CBD
11	L6	201	CYC	ND-C4D-CHA-C1A
11	L6	201	CYC	C3D-C4D-CHA-C1A
11	L6	201	CYC	NA-C4A-CHB-C1B
11	L6	201	CYC	C3A-C4A-CHB-C1B
11	L6	201	CYC	C4B-C3B-CAB-CBB
11	L6	201	CYC	C2C-C3C-CAC-CBC
11	L6	201	CYC	C4C-C3C-CAC-CBC
11	L6	201	CYC	C3D-CAD-CBD-CGD
11	M6	201	CYC	NA-C4A-CHB-C1B
11	M6	201	CYC	C3A-C4A-CHB-C1B
11	M6	201	CYC	C2C-C3C-CAC-CBC
11	M6	201	CYC	C4C-C3C-CAC-CBC
11	M6	202	CYC	C3A-C2A-CAA-CBA
11	M6	202	CYC	ND-C1D-CHD-C4C
11	M6	202	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
11	M6	202	CYC	C2D-C3D-CAD-CBD
11	M6	202	CYC	C4D-C3D-CAD-CBD
11	N6	301	CYC	NA-C4A-CHB-C1B
11	N6	301	CYC	C3A-C4A-CHB-C1B
11	N6	301	CYC	C2C-C3C-CAC-CBC
11	N6	301	CYC	C4C-C3C-CAC-CBC
11	N6	302	CYC	NA-C4A-CHB-C1B
11	N6	302	CYC	C3A-C4A-CHB-C1B
11	N6	302	CYC	C2C-C3C-CAC-CBC
11	N6	302	CYC	C4C-C3C-CAC-CBC
11	O6	201	CYC	ND-C4D-CHA-C1A
11	O6	201	CYC	C3D-C4D-CHA-C1A
11	O6	201	CYC	NA-C4A-CHB-C1B
11	O6	201	CYC	C3A-C4A-CHB-C1B
11	O6	201	CYC	C4B-C3B-CAB-CBB
11	O6	201	CYC	C2C-C3C-CAC-CBC
11	O6	201	CYC	C4C-C3C-CAC-CBC
11	O6	201	CYC	C3D-CAD-CBD-CGD
11	P6	201	CYC	NA-C4A-CHB-C1B
11	P6	201	CYC	C3A-C4A-CHB-C1B
11	P6	201	CYC	C2C-C3C-CAC-CBC
11	P6	201	CYC	C4C-C3C-CAC-CBC
11	P6	202	CYC	C3A-C2A-CAA-CBA
11	P6	202	CYC	ND-C1D-CHD-C4C
11	P6	202	CYC	C2D-C1D-CHD-C4C
11	P6	202	CYC	C2D-C3D-CAD-CBD
11	P6	202	CYC	C4D-C3D-CAD-CBD
11	Q6	201	CYC	ND-C4D-CHA-C1A
11	Q6	201	CYC	C3D-C4D-CHA-C1A
11	Q6	201	CYC	NA-C4A-CHB-C1B
11	Q6	201	CYC	C3A-C4A-CHB-C1B
11	Q6	201	CYC	C4B-C3B-CAB-CBB
11	Q6	201	CYC	C2C-C3C-CAC-CBC
11	Q6	201	CYC	C4C-C3C-CAC-CBC
11	Q6	201	CYC	C3D-CAD-CBD-CGD
11	R6	201	CYC	C3A-C2A-CAA-CBA
11	R6	201	CYC	ND-C1D-CHD-C4C
11	R6	201	CYC	C2D-C1D-CHD-C4C
11	R6	201	CYC	C2D-C3D-CAD-CBD
11	R6	201	CYC	C4D-C3D-CAD-CBD
11	R6	202	CYC	ND-C4D-CHA-C1A
11	R6	202	CYC	C3D-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
11	R6	202	CYC	NA-C4A-CHB-C1B
11	R6	202	CYC	C3A-C4A-CHB-C1B
11	R6	202	CYC	C4B-C3B-CAB-CBB
11	R6	202	CYC	C2C-C3C-CAC-CBC
11	R6	202	CYC	C4C-C3C-CAC-CBC
11	R6	202	CYC	C3D-CAD-CBD-CGD
11	T6	201	CYC	C3A-C2A-CAA-CBA
11	T6	201	CYC	ND-C1D-CHD-C4C
11	T6	201	CYC	C2D-C1D-CHD-C4C
11	T6	201	CYC	C2D-C3D-CAD-CBD
11	T6	201	CYC	C4D-C3D-CAD-CBD
11	U6	201	CYC	ND-C4D-CHA-C1A
11	U6	201	CYC	C3D-C4D-CHA-C1A
11	U6	201	CYC	NA-C4A-CHB-C1B
11	U6	201	CYC	C3A-C4A-CHB-C1B
11	U6	201	CYC	C4B-C3B-CAB-CBB
11	U6	201	CYC	C2C-C3C-CAC-CBC
11	U6	201	CYC	C4C-C3C-CAC-CBC
11	U6	201	CYC	C3D-CAD-CBD-CGD
11	V6	201	CYC	NA-C4A-CHB-C1B
11	V6	201	CYC	C3A-C4A-CHB-C1B
11	V6	201	CYC	C2C-C3C-CAC-CBC
11	V6	201	CYC	C4C-C3C-CAC-CBC
11	V6	202	CYC	C3A-C2A-CAA-CBA
11	V6	202	CYC	ND-C1D-CHD-C4C
11	V6	202	CYC	C2D-C1D-CHD-C4C
11	V6	202	CYC	C2D-C3D-CAD-CBD
11	V6	202	CYC	C4D-C3D-CAD-CBD
11	W6	201	CYC	ND-C4D-CHA-C1A
11	W6	201	CYC	C3D-C4D-CHA-C1A
11	W6	201	CYC	NA-C4A-CHB-C1B
11	W6	201	CYC	C3A-C4A-CHB-C1B
11	W6	201	CYC	C4B-C3B-CAB-CBB
11	W6	201	CYC	C2C-C3C-CAC-CBC
11	W6	201	CYC	C4C-C3C-CAC-CBC
11	W6	201	CYC	C3D-CAD-CBD-CGD
11	X6	201	CYC	NA-C4A-CHB-C1B
11	X6	201	CYC	C3A-C4A-CHB-C1B
11	X6	201	CYC	C2C-C3C-CAC-CBC
11	X6	201	CYC	C4C-C3C-CAC-CBC
11	X6	202	CYC	C3A-C2A-CAA-CBA
11	X6	202	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
11	X6	202	CYC	C2D-C1D-CHD-C4C
11	X6	202	CYC	C2D-C3D-CAD-CBD
11	X6	202	CYC	C4D-C3D-CAD-CBD
11	Y6	201	CYC	ND-C4D-CHA-C1A
11	Y6	201	CYC	C3D-C4D-CHA-C1A
11	Y6	201	CYC	NA-C4A-CHB-C1B
11	Y6	201	CYC	C3A-C4A-CHB-C1B
11	Y6	201	CYC	C4B-C3B-CAB-CBB
11	Y6	201	CYC	C2C-C3C-CAC-CBC
11	Y6	201	CYC	C4C-C3C-CAC-CBC
11	Y6	201	CYC	C3D-CAD-CBD-CGD
11	Z6	201	CYC	NA-C4A-CHB-C1B
11	Z6	201	CYC	C3A-C4A-CHB-C1B
11	Z6	201	CYC	C2C-C3C-CAC-CBC
11	Z6	201	CYC	C4C-C3C-CAC-CBC
11	Z6	202	CYC	C3A-C2A-CAA-CBA
11	Z6	202	CYC	ND-C1D-CHD-C4C
11	Z6	202	CYC	C2D-C1D-CHD-C4C
11	Z6	202	CYC	C2D-C3D-CAD-CBD
11	Z6	202	CYC	C4D-C3D-CAD-CBD
11	A7	1001	CYC	NA-C4A-CHB-C1B
11	A7	1001	CYC	C2C-C3C-CAC-CBC
11	A7	1001	CYC	C4C-C3C-CAC-CBC
11	A7	1001	CYC	ND-C1D-CHD-C4C
11	B7	1001	CYC	C2C-C3C-CAC-CBC
11	B7	1001	CYC	C4C-C3C-CAC-CBC
11	B7	1001	CYC	ND-C1D-CHD-C4C
11	B7	1001	CYC	C2D-C1D-CHD-C4C
11	C7	1001	CYC	NA-C4A-CHB-C1B
11	C7	1001	CYC	C2C-C3C-CAC-CBC
11	C7	1001	CYC	C4C-C3C-CAC-CBC
11	C7	1001	CYC	ND-C1D-CHD-C4C
11	D7	1001	CYC	C2C-C3C-CAC-CBC
11	D7	1001	CYC	C4C-C3C-CAC-CBC
11	D7	1001	CYC	ND-C1D-CHD-C4C
11	D7	1001	CYC	C2D-C1D-CHD-C4C
11	E7	1001	CYC	NA-C4A-CHB-C1B
11	E7	1001	CYC	C2C-C3C-CAC-CBC
11	E7	1001	CYC	C4C-C3C-CAC-CBC
11	E7	1001	CYC	ND-C1D-CHD-C4C
11	F7	1001	CYC	C2C-C3C-CAC-CBC
11	F7	1001	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
11	F7	1001	CYC	ND-C1D-CHD-C4C
11	F7	1001	CYC	C2D-C1D-CHD-C4C
11	H7	1001	CYC	NA-C4A-CHB-C1B
11	H7	1001	CYC	C2C-C3C-CAC-CBC
11	H7	1001	CYC	C4C-C3C-CAC-CBC
11	H7	1001	CYC	ND-C1D-CHD-C4C
11	I7	1001	CYC	C2C-C3C-CAC-CBC
11	I7	1001	CYC	C4C-C3C-CAC-CBC
11	I7	1001	CYC	ND-C1D-CHD-C4C
11	I7	1001	CYC	C2D-C1D-CHD-C4C
11	J7	1001	CYC	NA-C4A-CHB-C1B
11	J7	1001	CYC	C2C-C3C-CAC-CBC
11	J7	1001	CYC	C4C-C3C-CAC-CBC
11	J7	1001	CYC	ND-C1D-CHD-C4C
11	K7	1001	CYC	C2C-C3C-CAC-CBC
11	K7	1001	CYC	C4C-C3C-CAC-CBC
11	K7	1001	CYC	ND-C1D-CHD-C4C
11	K7	1001	CYC	C2D-C1D-CHD-C4C
11	L7	1001	CYC	NA-C4A-CHB-C1B
11	L7	1001	CYC	C2C-C3C-CAC-CBC
11	L7	1001	CYC	C4C-C3C-CAC-CBC
11	L7	1001	CYC	ND-C1D-CHD-C4C
11	M7	1001	CYC	C2C-C3C-CAC-CBC
11	M7	1001	CYC	C4C-C3C-CAC-CBC
11	M7	1001	CYC	ND-C1D-CHD-C4C
11	M7	1001	CYC	C2D-C1D-CHD-C4C
11	O7	1001	CYC	NA-C4A-CHB-C1B
11	O7	1001	CYC	C2C-C3C-CAC-CBC
11	O7	1001	CYC	C4C-C3C-CAC-CBC
11	O7	1001	CYC	ND-C1D-CHD-C4C
11	P7	1001	CYC	C2C-C3C-CAC-CBC
11	P7	1001	CYC	C4C-C3C-CAC-CBC
11	P7	1001	CYC	ND-C1D-CHD-C4C
11	P7	1001	CYC	C2D-C1D-CHD-C4C
11	Q7	1001	CYC	NA-C4A-CHB-C1B
11	Q7	1001	CYC	C2C-C3C-CAC-CBC
11	Q7	1001	CYC	C4C-C3C-CAC-CBC
11	Q7	1001	CYC	ND-C1D-CHD-C4C
11	R7	1001	CYC	C2C-C3C-CAC-CBC
11	R7	1001	CYC	C4C-C3C-CAC-CBC
11	R7	1001	CYC	ND-C1D-CHD-C4C
11	R7	1001	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
11	S7	1001	CYC	NA-C4A-CHB-C1B
11	S7	1001	CYC	C2C-C3C-CAC-CBC
11	S7	1001	CYC	C4C-C3C-CAC-CBC
11	S7	1001	CYC	ND-C1D-CHD-C4C
11	T7	1001	CYC	C2C-C3C-CAC-CBC
11	T7	1001	CYC	C4C-C3C-CAC-CBC
11	T7	1001	CYC	ND-C1D-CHD-C4C
11	T7	1001	CYC	C2D-C1D-CHD-C4C
11	V7	1001	CYC	NA-C4A-CHB-C1B
11	V7	1001	CYC	C2C-C3C-CAC-CBC
11	V7	1001	CYC	C4C-C3C-CAC-CBC
11	V7	1001	CYC	ND-C1D-CHD-C4C
11	W7	1001	CYC	C2C-C3C-CAC-CBC
11	W7	1001	CYC	C4C-C3C-CAC-CBC
11	W7	1001	CYC	ND-C1D-CHD-C4C
11	W7	1001	CYC	C2D-C1D-CHD-C4C
11	X7	1001	CYC	NA-C4A-CHB-C1B
11	X7	1001	CYC	C2C-C3C-CAC-CBC
11	X7	1001	CYC	C4C-C3C-CAC-CBC
11	X7	1001	CYC	ND-C1D-CHD-C4C
11	Y7	1001	CYC	C2C-C3C-CAC-CBC
11	Y7	1001	CYC	C4C-C3C-CAC-CBC
11	Y7	1001	CYC	ND-C1D-CHD-C4C
11	Y7	1001	CYC	C2D-C1D-CHD-C4C
11	Z7	1001	CYC	NA-C4A-CHB-C1B
11	Z7	1001	CYC	C2C-C3C-CAC-CBC
11	Z7	1001	CYC	C4C-C3C-CAC-CBC
11	Z7	1001	CYC	ND-C1D-CHD-C4C
11	a7	1001	CYC	C2C-C3C-CAC-CBC
11	a7	1001	CYC	C4C-C3C-CAC-CBC
11	a7	1001	CYC	ND-C1D-CHD-C4C
11	a7	1001	CYC	C2D-C1D-CHD-C4C
11	A8	301	CYC	NA-C4A-CHB-C1B
11	A8	301	CYC	C2C-C3C-CAC-CBC
11	A8	301	CYC	C4C-C3C-CAC-CBC
11	A8	301	CYC	ND-C1D-CHD-C4C
11	A8	301	CYC	C2D-C1D-CHD-C4C
11	C8	201	CYC	C3A-C2A-CAA-CBA
11	C8	201	CYC	ND-C1D-CHD-C4C
11	C8	201	CYC	C2D-C1D-CHD-C4C
11	C8	201	CYC	C2D-C3D-CAD-CBD
11	C8	201	CYC	C4D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
11	D8	201	CYC	NA-C4A-CHB-C1B
11	D8	201	CYC	C3A-C4A-CHB-C1B
11	D8	201	CYC	C2B-C3B-CAB-CBB
11	D8	201	CYC	C4C-C3C-CAC-CBC
11	D8	201	CYC	C2D-C1D-CHD-C4C
11	D8	201	CYC	C2D-C3D-CAD-CBD
11	E8	201	CYC	NA-C4A-CHB-C1B
11	E8	201	CYC	C2C-C3C-CAC-CBC
11	E8	201	CYC	C4C-C3C-CAC-CBC
11	E8	201	CYC	ND-C1D-CHD-C4C
11	E8	201	CYC	C2D-C1D-CHD-C4C
11	E8	202	CYC	C3A-C2A-CAA-CBA
11	E8	202	CYC	ND-C1D-CHD-C4C
11	E8	202	CYC	C2D-C1D-CHD-C4C
11	E8	202	CYC	C2D-C3D-CAD-CBD
11	E8	202	CYC	C4D-C3D-CAD-CBD
11	E8	203	CYC	NA-C4A-CHB-C1B
11	E8	203	CYC	C3A-C4A-CHB-C1B
11	E8	203	CYC	C2B-C3B-CAB-CBB
11	E8	203	CYC	C4C-C3C-CAC-CBC
11	E8	203	CYC	C2D-C1D-CHD-C4C
11	E8	203	CYC	C2D-C3D-CAD-CBD
11	F8	201	CYC	C3A-C2A-CAA-CBA
11	F8	201	CYC	ND-C1D-CHD-C4C
11	F8	201	CYC	C2D-C1D-CHD-C4C
11	F8	201	CYC	C2D-C3D-CAD-CBD
11	F8	201	CYC	C4D-C3D-CAD-CBD
11	G8	201	CYC	NA-C4A-CHB-C1B
11	G8	201	CYC	C3A-C4A-CHB-C1B
11	G8	201	CYC	C2B-C3B-CAB-CBB
11	G8	201	CYC	C4C-C3C-CAC-CBC
11	G8	201	CYC	C2D-C1D-CHD-C4C
11	G8	201	CYC	C2D-C3D-CAD-CBD
11	G8	202	CYC	NA-C4A-CHB-C1B
11	G8	202	CYC	C2C-C3C-CAC-CBC
11	G8	202	CYC	C4C-C3C-CAC-CBC
11	G8	202	CYC	ND-C1D-CHD-C4C
11	G8	202	CYC	C2D-C1D-CHD-C4C
11	I8	201	CYC	NA-C4A-CHB-C1B
11	I8	201	CYC	C2C-C3C-CAC-CBC
11	I8	201	CYC	C4C-C3C-CAC-CBC
11	I8	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
11	I8	201	CYC	C2D-C1D-CHD-C4C
11	I8	202	CYC	C3A-C2A-CAA-CBA
11	I8	202	CYC	ND-C1D-CHD-C4C
11	I8	202	CYC	C2D-C1D-CHD-C4C
11	I8	202	CYC	C2D-C3D-CAD-CBD
11	I8	202	CYC	C4D-C3D-CAD-CBD
11	I8	203	CYC	NA-C4A-CHB-C1B
11	I8	203	CYC	C3A-C4A-CHB-C1B
11	I8	203	CYC	C2B-C3B-CAB-CBB
11	I8	203	CYC	C4C-C3C-CAC-CBC
11	I8	203	CYC	C2D-C1D-CHD-C4C
11	I8	203	CYC	C2D-C3D-CAD-CBD
11	K8	201	CYC	NA-C4A-CHB-C1B
11	K8	201	CYC	C2C-C3C-CAC-CBC
11	K8	201	CYC	C4C-C3C-CAC-CBC
11	K8	201	CYC	ND-C1D-CHD-C4C
11	K8	201	CYC	C2D-C1D-CHD-C4C
11	K8	202	CYC	C3A-C2A-CAA-CBA
11	K8	202	CYC	ND-C1D-CHD-C4C
11	K8	202	CYC	C2D-C1D-CHD-C4C
11	K8	202	CYC	C2D-C3D-CAD-CBD
11	K8	202	CYC	C4D-C3D-CAD-CBD
11	L8	201	CYC	NA-C4A-CHB-C1B
11	L8	201	CYC	C3A-C4A-CHB-C1B
11	L8	201	CYC	C2B-C3B-CAB-CBB
11	L8	201	CYC	C4C-C3C-CAC-CBC
11	L8	201	CYC	C2D-C1D-CHD-C4C
11	L8	201	CYC	C2D-C3D-CAD-CBD
11	L8	202	CYC	C3A-C2A-CAA-CBA
11	L8	202	CYC	ND-C1D-CHD-C4C
11	L8	202	CYC	C2D-C1D-CHD-C4C
11	L8	202	CYC	C2D-C3D-CAD-CBD
11	L8	202	CYC	C4D-C3D-CAD-CBD
11	M8	201	CYC	NA-C4A-CHB-C1B
11	M8	201	CYC	C3A-C4A-CHB-C1B
11	M8	201	CYC	C2B-C3B-CAB-CBB
11	M8	201	CYC	C4C-C3C-CAC-CBC
11	M8	201	CYC	C2D-C1D-CHD-C4C
11	M8	201	CYC	C2D-C3D-CAD-CBD
11	M8	202	CYC	NA-C4A-CHB-C1B
11	M8	202	CYC	C2C-C3C-CAC-CBC
11	M8	202	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
11	M8	202	CYC	ND-C1D-CHD-C4C
11	M8	202	CYC	C2D-C1D-CHD-C4C
11	N8	301	CYC	NA-C4A-CHB-C1B
11	N8	301	CYC	C2C-C3C-CAC-CBC
11	N8	301	CYC	C4C-C3C-CAC-CBC
11	N8	301	CYC	ND-C1D-CHD-C4C
11	N8	301	CYC	C2D-C1D-CHD-C4C
11	O8	201	CYC	NA-C4A-CHB-C1B
11	O8	201	CYC	C3A-C4A-CHB-C1B
11	O8	201	CYC	C2B-C3B-CAB-CBB
11	O8	201	CYC	C4C-C3C-CAC-CBC
11	O8	201	CYC	C2D-C1D-CHD-C4C
11	O8	201	CYC	C2D-C3D-CAD-CBD
11	P8	201	CYC	NA-C4A-CHB-C1B
11	P8	201	CYC	C2C-C3C-CAC-CBC
11	P8	201	CYC	C4C-C3C-CAC-CBC
11	P8	201	CYC	ND-C1D-CHD-C4C
11	P8	201	CYC	C2D-C1D-CHD-C4C
11	P8	202	CYC	C3A-C2A-CAA-CBA
11	P8	202	CYC	ND-C1D-CHD-C4C
11	P8	202	CYC	C2D-C1D-CHD-C4C
11	P8	202	CYC	C2D-C3D-CAD-CBD
11	P8	202	CYC	C4D-C3D-CAD-CBD
11	P8	203	CYC	NA-C4A-CHB-C1B
11	P8	203	CYC	C3A-C4A-CHB-C1B
11	P8	203	CYC	C2B-C3B-CAB-CBB
11	P8	203	CYC	C4C-C3C-CAC-CBC
11	P8	203	CYC	C2D-C1D-CHD-C4C
11	P8	203	CYC	C2D-C3D-CAD-CBD
11	R8	201	CYC	C3A-C2A-CAA-CBA
11	R8	201	CYC	ND-C1D-CHD-C4C
11	R8	201	CYC	C2D-C1D-CHD-C4C
11	R8	201	CYC	C2D-C3D-CAD-CBD
11	R8	201	CYC	C4D-C3D-CAD-CBD
11	S8	201	CYC	NA-C4A-CHB-C1B
11	S8	201	CYC	C3A-C4A-CHB-C1B
11	S8	201	CYC	C2B-C3B-CAB-CBB
11	S8	201	CYC	C4C-C3C-CAC-CBC
11	S8	201	CYC	C2D-C1D-CHD-C4C
11	S8	201	CYC	C2D-C3D-CAD-CBD
11	T8	201	CYC	NA-C4A-CHB-C1B
11	T8	201	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
11	T8	201	CYC	C4C-C3C-CAC-CBC
11	T8	201	CYC	ND-C1D-CHD-C4C
11	T8	201	CYC	C2D-C1D-CHD-C4C
11	T8	202	CYC	C3A-C2A-CAA-CBA
11	T8	202	CYC	ND-C1D-CHD-C4C
11	T8	202	CYC	C2D-C1D-CHD-C4C
11	T8	202	CYC	C2D-C3D-CAD-CBD
11	T8	202	CYC	C4D-C3D-CAD-CBD
11	U8	201	CYC	NA-C4A-CHB-C1B
11	U8	201	CYC	C3A-C4A-CHB-C1B
11	U8	201	CYC	C2B-C3B-CAB-CBB
11	U8	201	CYC	C4C-C3C-CAC-CBC
11	U8	201	CYC	C2D-C1D-CHD-C4C
11	U8	201	CYC	C2D-C3D-CAD-CBD
11	V8	201	CYC	NA-C4A-CHB-C1B
11	V8	201	CYC	C2C-C3C-CAC-CBC
11	V8	201	CYC	C4C-C3C-CAC-CBC
11	V8	201	CYC	ND-C1D-CHD-C4C
11	V8	201	CYC	C2D-C1D-CHD-C4C
11	V8	202	CYC	C3A-C2A-CAA-CBA
11	V8	202	CYC	ND-C1D-CHD-C4C
11	V8	202	CYC	C2D-C1D-CHD-C4C
11	V8	202	CYC	C2D-C3D-CAD-CBD
11	V8	202	CYC	C4D-C3D-CAD-CBD
11	W8	201	CYC	NA-C4A-CHB-C1B
11	W8	201	CYC	C3A-C4A-CHB-C1B
11	W8	201	CYC	C2B-C3B-CAB-CBB
11	W8	201	CYC	C4C-C3C-CAC-CBC
11	W8	201	CYC	C2D-C1D-CHD-C4C
11	W8	201	CYC	C2D-C3D-CAD-CBD
11	X8	201	CYC	NA-C4A-CHB-C1B
11	X8	201	CYC	C2C-C3C-CAC-CBC
11	X8	201	CYC	C4C-C3C-CAC-CBC
11	X8	201	CYC	ND-C1D-CHD-C4C
11	X8	201	CYC	C2D-C1D-CHD-C4C
11	X8	202	CYC	C3A-C2A-CAA-CBA
11	X8	202	CYC	ND-C1D-CHD-C4C
11	X8	202	CYC	C2D-C1D-CHD-C4C
11	X8	202	CYC	C2D-C3D-CAD-CBD
11	X8	202	CYC	C4D-C3D-CAD-CBD
11	Y8	201	CYC	NA-C4A-CHB-C1B
11	Y8	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	Y8	201	CYC	C2B-C3B-CAB-CBB
11	Y8	201	CYC	C4C-C3C-CAC-CBC
11	Y8	201	CYC	C2D-C1D-CHD-C4C
11	Y8	201	CYC	C2D-C3D-CAD-CBD
11	Z8	201	CYC	NA-C4A-CHB-C1B
11	Z8	201	CYC	C2C-C3C-CAC-CBC
11	Z8	201	CYC	C4C-C3C-CAC-CBC
11	Z8	201	CYC	ND-C1D-CHD-C4C
11	Z8	201	CYC	C2D-C1D-CHD-C4C
11	Z8	202	CYC	C3A-C2A-CAA-CBA
11	Z8	202	CYC	ND-C1D-CHD-C4C
11	Z8	202	CYC	C2D-C1D-CHD-C4C
11	Z8	202	CYC	C2D-C3D-CAD-CBD
11	Z8	202	CYC	C4D-C3D-CAD-CBD
11	A2	301	CYC	C2B-C3B-CAB-CBB
11	C2	201	CYC	C2B-C3B-CAB-CBB
11	E2	201	CYC	C2B-C3B-CAB-CBB
11	I2	201	CYC	C2B-C3B-CAB-CBB
11	K2	201	CYC	C2B-C3B-CAB-CBB
11	M2	201	CYC	C2B-C3B-CAB-CBB
11	N2	301	CYC	C2B-C3B-CAB-CBB
11	N2	302	CYC	C2B-C3B-CAB-CBB
11	P2	201	CYC	C2B-C3B-CAB-CBB
11	V2	201	CYC	C2B-C3B-CAB-CBB
11	X2	201	CYC	C2B-C3B-CAB-CBB
11	Z2	202	CYC	C2B-C3B-CAB-CBB
11	A4	301	CYC	C2B-C3B-CAB-CBB
11	E4	201	CYC	C2B-C3B-CAB-CBB
11	G4	202	CYC	C2B-C3B-CAB-CBB
11	I4	201	CYC	C2B-C3B-CAB-CBB
11	K4	201	CYC	C2B-C3B-CAB-CBB
11	M4	202	CYC	C2B-C3B-CAB-CBB
11	N4	301	CYC	C2B-C3B-CAB-CBB
11	P4	201	CYC	C2B-C3B-CAB-CBB
11	T4	201	CYC	C2B-C3B-CAB-CBB
11	V4	201	CYC	C2B-C3B-CAB-CBB
11	X4	201	CYC	C2B-C3B-CAB-CBB
11	Z4	201	CYC	C2B-C3B-CAB-CBB
11	A6	301	CYC	C2B-C3B-CAB-CBB
11	C6	201	CYC	C2B-C3B-CAB-CBB
11	E6	201	CYC	C2B-C3B-CAB-CBB
11	I6	201	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
11	K6	201	CYC	C2B-C3B-CAB-CBB
11	M6	201	CYC	C2B-C3B-CAB-CBB
11	N6	301	CYC	C2B-C3B-CAB-CBB
11	N6	302	CYC	C2B-C3B-CAB-CBB
11	P6	201	CYC	C2B-C3B-CAB-CBB
11	V6	201	CYC	C2B-C3B-CAB-CBB
11	X6	201	CYC	C2B-C3B-CAB-CBB
11	Z6	201	CYC	C2B-C3B-CAB-CBB
11	A8	301	CYC	C2B-C3B-CAB-CBB
11	E8	201	CYC	C2B-C3B-CAB-CBB
11	G8	202	CYC	C2B-C3B-CAB-CBB
11	I8	201	CYC	C2B-C3B-CAB-CBB
11	K8	201	CYC	C2B-C3B-CAB-CBB
11	M8	202	CYC	C2B-C3B-CAB-CBB
11	N8	301	CYC	C2B-C3B-CAB-CBB
11	P8	201	CYC	C2B-C3B-CAB-CBB
11	T8	201	CYC	C2B-C3B-CAB-CBB
11	V8	201	CYC	C2B-C3B-CAB-CBB
11	X8	201	CYC	C2B-C3B-CAB-CBB
11	Z8	201	CYC	C2B-C3B-CAB-CBB
11	B2	201	CYC	C2B-C3B-CAB-CBB
11	D2	201	CYC	C2B-C3B-CAB-CBB
11	E2	203	CYC	C2B-C3B-CAB-CBB
11	H2	201	CYC	C2B-C3B-CAB-CBB
11	I2	203	CYC	C2B-C3B-CAB-CBB
11	K2	203	CYC	C2B-C3B-CAB-CBB
11	Q2	201	CYC	C2B-C3B-CAB-CBB
11	S2	201	CYC	C2B-C3B-CAB-CBB
11	T2	201	CYC	C2B-C3B-CAB-CBB
11	W2	201	CYC	C2B-C3B-CAB-CBB
11	X2	203	CYC	C2B-C3B-CAB-CBB
11	Z2	201	CYC	C2B-C3B-CAB-CBB
11	B6	201	CYC	C2B-C3B-CAB-CBB
11	C6	203	CYC	C2B-C3B-CAB-CBB
11	F6	201	CYC	C2B-C3B-CAB-CBB
11	H6	201	CYC	C2B-C3B-CAB-CBB
11	J6	201	CYC	C2B-C3B-CAB-CBB
11	L6	201	CYC	C2B-C3B-CAB-CBB
11	O6	201	CYC	C2B-C3B-CAB-CBB
11	Q6	201	CYC	C2B-C3B-CAB-CBB
11	R6	202	CYC	C2B-C3B-CAB-CBB
11	U6	201	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
11	W6	201	CYC	C2B-C3B-CAB-CBB
11	Y6	201	CYC	C2B-C3B-CAB-CBB
11	B1	201	CYC	C2B-C3B-CAB-CBB
11	C1	202	CYC	C2B-C3B-CAB-CBB
11	F1	201	CYC	C2B-C3B-CAB-CBB
11	H1	201	CYC	C2B-C3B-CAB-CBB
11	J1	201	CYC	C2B-C3B-CAB-CBB
11	L1	201	CYC	C2B-C3B-CAB-CBB
11	O1	201	CYC	C2B-C3B-CAB-CBB
11	Q1	201	CYC	C2B-C3B-CAB-CBB
11	S1	201	CYC	C2B-C3B-CAB-CBB
11	U1	201	CYC	C2B-C3B-CAB-CBB
11	V1	202	CYC	C2B-C3B-CAB-CBB
11	X1	203	CYC	C2B-C3B-CAB-CBB
11	B5	201	CYC	C2B-C3B-CAB-CBB
11	C5	202	CYC	C2B-C3B-CAB-CBB
11	F5	201	CYC	C2B-C3B-CAB-CBB
11	H5	201	CYC	C2B-C3B-CAB-CBB
11	J5	201	CYC	C2B-C3B-CAB-CBB
11	L5	201	CYC	C2B-C3B-CAB-CBB
11	O5	201	CYC	C2B-C3B-CAB-CBB
11	Q5	201	CYC	C2B-C3B-CAB-CBB
11	S5	201	CYC	C2B-C3B-CAB-CBB
11	U5	201	CYC	C2B-C3B-CAB-CBB
11	V5	202	CYC	C2B-C3B-CAB-CBB
11	X5	203	CYC	C2B-C3B-CAB-CBB
11	C2	202	CYC	C1A-C2A-CAA-CBA
11	E2	202	CYC	C1A-C2A-CAA-CBA
11	G2	201	CYC	C1A-C2A-CAA-CBA
11	I2	202	CYC	C1A-C2A-CAA-CBA
11	K2	202	CYC	C1A-C2A-CAA-CBA
11	M2	202	CYC	C1A-C2A-CAA-CBA
11	P2	202	CYC	C1A-C2A-CAA-CBA
11	R2	201	CYC	C1A-C2A-CAA-CBA
11	T2	202	CYC	C1A-C2A-CAA-CBA
11	V2	202	CYC	C1A-C2A-CAA-CBA
11	X2	202	CYC	C1A-C2A-CAA-CBA
11	Z2	203	CYC	C1A-C2A-CAA-CBA
11	C4	201	CYC	C1A-C2A-CAA-CBA
11	E4	202	CYC	C1A-C2A-CAA-CBA
11	F4	201	CYC	C1A-C2A-CAA-CBA
11	I4	202	CYC	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
11	K4	202	CYC	C1A-C2A-CAA-CBA
11	L4	202	CYC	C1A-C2A-CAA-CBA
11	P4	202	CYC	C1A-C2A-CAA-CBA
11	R4	201	CYC	C1A-C2A-CAA-CBA
11	T4	202	CYC	C1A-C2A-CAA-CBA
11	V4	202	CYC	C1A-C2A-CAA-CBA
11	X4	202	CYC	C1A-C2A-CAA-CBA
11	Z4	202	CYC	C1A-C2A-CAA-CBA
11	C6	202	CYC	C1A-C2A-CAA-CBA
11	E6	202	CYC	C1A-C2A-CAA-CBA
11	G6	201	CYC	C1A-C2A-CAA-CBA
11	I6	202	CYC	C1A-C2A-CAA-CBA
11	K6	202	CYC	C1A-C2A-CAA-CBA
11	M6	202	CYC	C1A-C2A-CAA-CBA
11	P6	202	CYC	C1A-C2A-CAA-CBA
11	R6	201	CYC	C1A-C2A-CAA-CBA
11	T6	201	CYC	C1A-C2A-CAA-CBA
11	V6	202	CYC	C1A-C2A-CAA-CBA
11	X6	202	CYC	C1A-C2A-CAA-CBA
11	Z6	202	CYC	C1A-C2A-CAA-CBA
11	C8	201	CYC	C1A-C2A-CAA-CBA
11	E8	202	CYC	C1A-C2A-CAA-CBA
11	F8	201	CYC	C1A-C2A-CAA-CBA
11	I8	202	CYC	C1A-C2A-CAA-CBA
11	K8	202	CYC	C1A-C2A-CAA-CBA
11	L8	202	CYC	C1A-C2A-CAA-CBA
11	P8	202	CYC	C1A-C2A-CAA-CBA
11	R8	201	CYC	C1A-C2A-CAA-CBA
11	T8	202	CYC	C1A-C2A-CAA-CBA
11	V8	202	CYC	C1A-C2A-CAA-CBA
11	X8	202	CYC	C1A-C2A-CAA-CBA
11	Z8	202	CYC	C1A-C2A-CAA-CBA
11	V3	201	CYC	C2A-CAA-CBA-CGA
11	m3	201	CYC	C2A-CAA-CBA-CGA
11	A7	1001	CYC	C3A-C4A-CHB-C1B
11	C7	1001	CYC	C3A-C4A-CHB-C1B
11	E7	1001	CYC	C3A-C4A-CHB-C1B
11	H7	1001	CYC	C3A-C4A-CHB-C1B
11	J7	1001	CYC	C3A-C4A-CHB-C1B
11	L7	1001	CYC	C3A-C4A-CHB-C1B
11	O7	1001	CYC	C3A-C4A-CHB-C1B
11	Q7	1001	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	S7	1001	CYC	C3A-C4A-CHB-C1B
11	V7	1001	CYC	C3A-C4A-CHB-C1B
11	X7	1001	CYC	C3A-C4A-CHB-C1B
11	Z7	1001	CYC	C3A-C4A-CHB-C1B
11	C1	201	CYC	C3D-CAD-CBD-CGD
11	D1	201	CYC	C3D-CAD-CBD-CGD
11	G1	202	CYC	C3D-CAD-CBD-CGD
11	I1	202	CYC	C3D-CAD-CBD-CGD
11	K1	202	CYC	C3D-CAD-CBD-CGD
11	M1	202	CYC	C3D-CAD-CBD-CGD
11	P1	202	CYC	C3D-CAD-CBD-CGD
11	R1	202	CYC	C3D-CAD-CBD-CGD
11	T1	201	CYC	C3D-CAD-CBD-CGD
11	U1	202	CYC	C3D-CAD-CBD-CGD
11	X1	202	CYC	C3D-CAD-CBD-CGD
11	Z1	202	CYC	C3D-CAD-CBD-CGD
11	C5	201	CYC	C3D-CAD-CBD-CGD
11	D5	201	CYC	C3D-CAD-CBD-CGD
11	G5	202	CYC	C3D-CAD-CBD-CGD
11	I5	202	CYC	C3D-CAD-CBD-CGD
11	K5	202	CYC	C3D-CAD-CBD-CGD
11	M5	202	CYC	C3D-CAD-CBD-CGD
11	P5	202	CYC	C3D-CAD-CBD-CGD
11	R5	202	CYC	C3D-CAD-CBD-CGD
11	T5	201	CYC	C3D-CAD-CBD-CGD
11	U5	202	CYC	C3D-CAD-CBD-CGD
11	X5	202	CYC	C3D-CAD-CBD-CGD
11	Z5	202	CYC	C3D-CAD-CBD-CGD
11	B1	201	CYC	C4B-C3B-CAB-CBB
11	C1	202	CYC	C4B-C3B-CAB-CBB
11	F1	201	CYC	C4B-C3B-CAB-CBB
11	H1	201	CYC	C4B-C3B-CAB-CBB
11	J1	201	CYC	C4B-C3B-CAB-CBB
11	L1	201	CYC	C4B-C3B-CAB-CBB
11	O1	201	CYC	C4B-C3B-CAB-CBB
11	Q1	201	CYC	C4B-C3B-CAB-CBB
11	S1	201	CYC	C4B-C3B-CAB-CBB
11	U1	201	CYC	C4B-C3B-CAB-CBB
11	V1	202	CYC	C4B-C3B-CAB-CBB
11	X1	203	CYC	C4B-C3B-CAB-CBB
11	A2	301	CYC	C4B-C3B-CAB-CBB
11	C2	201	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
11	E2	201	CYC	C4B-C3B-CAB-CBB
11	I2	201	CYC	C4B-C3B-CAB-CBB
11	K2	201	CYC	C4B-C3B-CAB-CBB
11	M2	201	CYC	C4B-C3B-CAB-CBB
11	N2	301	CYC	C4B-C3B-CAB-CBB
11	N2	302	CYC	C4B-C3B-CAB-CBB
11	P2	201	CYC	C4B-C3B-CAB-CBB
11	V2	201	CYC	C4B-C3B-CAB-CBB
11	X2	201	CYC	C4B-C3B-CAB-CBB
11	Z2	202	CYC	C4B-C3B-CAB-CBB
11	A4	301	CYC	C4B-C3B-CAB-CBB
11	D4	201	CYC	C4B-C3B-CAB-CBB
11	E4	201	CYC	C4B-C3B-CAB-CBB
11	E4	203	CYC	C4B-C3B-CAB-CBB
11	G4	201	CYC	C4B-C3B-CAB-CBB
11	G4	202	CYC	C4B-C3B-CAB-CBB
11	I4	201	CYC	C4B-C3B-CAB-CBB
11	I4	203	CYC	C4B-C3B-CAB-CBB
11	K4	201	CYC	C4B-C3B-CAB-CBB
11	L4	201	CYC	C4B-C3B-CAB-CBB
11	M4	201	CYC	C4B-C3B-CAB-CBB
11	M4	202	CYC	C4B-C3B-CAB-CBB
11	N4	301	CYC	C4B-C3B-CAB-CBB
11	O4	201	CYC	C4B-C3B-CAB-CBB
11	P4	201	CYC	C4B-C3B-CAB-CBB
11	P4	203	CYC	C4B-C3B-CAB-CBB
11	S4	201	CYC	C4B-C3B-CAB-CBB
11	T4	201	CYC	C4B-C3B-CAB-CBB
11	U4	201	CYC	C4B-C3B-CAB-CBB
11	V4	201	CYC	C4B-C3B-CAB-CBB
11	W4	201	CYC	C4B-C3B-CAB-CBB
11	X4	201	CYC	C4B-C3B-CAB-CBB
11	Y4	201	CYC	C4B-C3B-CAB-CBB
11	Z4	201	CYC	C4B-C3B-CAB-CBB
11	B5	201	CYC	C4B-C3B-CAB-CBB
11	C5	202	CYC	C4B-C3B-CAB-CBB
11	F5	201	CYC	C4B-C3B-CAB-CBB
11	H5	201	CYC	C4B-C3B-CAB-CBB
11	J5	201	CYC	C4B-C3B-CAB-CBB
11	L5	201	CYC	C4B-C3B-CAB-CBB
11	O5	201	CYC	C4B-C3B-CAB-CBB
11	Q5	201	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
11	S5	201	CYC	C4B-C3B-CAB-CBB
11	U5	201	CYC	C4B-C3B-CAB-CBB
11	V5	202	CYC	C4B-C3B-CAB-CBB
11	X5	203	CYC	C4B-C3B-CAB-CBB
11	A6	301	CYC	C4B-C3B-CAB-CBB
11	C6	201	CYC	C4B-C3B-CAB-CBB
11	E6	201	CYC	C4B-C3B-CAB-CBB
11	I6	201	CYC	C4B-C3B-CAB-CBB
11	K6	201	CYC	C4B-C3B-CAB-CBB
11	M6	201	CYC	C4B-C3B-CAB-CBB
11	N6	301	CYC	C4B-C3B-CAB-CBB
11	N6	302	CYC	C4B-C3B-CAB-CBB
11	P6	201	CYC	C4B-C3B-CAB-CBB
11	V6	201	CYC	C4B-C3B-CAB-CBB
11	X6	201	CYC	C4B-C3B-CAB-CBB
11	Z6	201	CYC	C4B-C3B-CAB-CBB
11	A8	301	CYC	C4B-C3B-CAB-CBB
11	D8	201	CYC	C4B-C3B-CAB-CBB
11	E8	201	CYC	C4B-C3B-CAB-CBB
11	E8	203	CYC	C4B-C3B-CAB-CBB
11	G8	201	CYC	C4B-C3B-CAB-CBB
11	G8	202	CYC	C4B-C3B-CAB-CBB
11	I8	201	CYC	C4B-C3B-CAB-CBB
11	I8	203	CYC	C4B-C3B-CAB-CBB
11	K8	201	CYC	C4B-C3B-CAB-CBB
11	L8	201	CYC	C4B-C3B-CAB-CBB
11	M8	201	CYC	C4B-C3B-CAB-CBB
11	M8	202	CYC	C4B-C3B-CAB-CBB
11	N8	301	CYC	C4B-C3B-CAB-CBB
11	O8	201	CYC	C4B-C3B-CAB-CBB
11	P8	201	CYC	C4B-C3B-CAB-CBB
11	P8	203	CYC	C4B-C3B-CAB-CBB
11	S8	201	CYC	C4B-C3B-CAB-CBB
11	T8	201	CYC	C4B-C3B-CAB-CBB
11	U8	201	CYC	C4B-C3B-CAB-CBB
11	V8	201	CYC	C4B-C3B-CAB-CBB
11	W8	201	CYC	C4B-C3B-CAB-CBB
11	X8	201	CYC	C4B-C3B-CAB-CBB
11	Y8	201	CYC	C4B-C3B-CAB-CBB
11	Z8	201	CYC	C4B-C3B-CAB-CBB
11	N1	301	CYC	C2B-C3B-CAB-CBB
11	P1	201	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
11	A5	301	CYC	C2B-C3B-CAB-CBB
11	I5	201	CYC	C2B-C3B-CAB-CBB
11	P5	201	CYC	C2B-C3B-CAB-CBB
11	Z5	201	CYC	C2B-C3B-CAB-CBB
11	A1	301	CYC	C2B-C3B-CAB-CBB
11	I1	201	CYC	C2B-C3B-CAB-CBB
11	R1	201	CYC	C2B-C3B-CAB-CBB
11	V1	201	CYC	C2B-C3B-CAB-CBB
11	X1	201	CYC	C2B-C3B-CAB-CBB
11	Z1	201	CYC	C2B-C3B-CAB-CBB
11	K5	201	CYC	C2B-C3B-CAB-CBB
11	M5	201	CYC	C2B-C3B-CAB-CBB
11	R5	201	CYC	C2B-C3B-CAB-CBB
11	V5	201	CYC	C2B-C3B-CAB-CBB
11	G1	201	CYC	C2B-C3B-CAB-CBB
11	M1	201	CYC	C2B-C3B-CAB-CBB
11	N5	301	CYC	C2B-C3B-CAB-CBB
11	X5	201	CYC	C2B-C3B-CAB-CBB
11	K1	201	CYC	C2B-C3B-CAB-CBB
11	G5	201	CYC	C2B-C3B-CAB-CBB
11	A1	302	CYC	C2B-C3B-CAB-CBB
11	A5	302	CYC	C2B-C3B-CAB-CBB
11	C1	201	CYC	C2A-CAA-CBA-CGA
11	D1	201	CYC	C2A-CAA-CBA-CGA
11	G1	202	CYC	C2A-CAA-CBA-CGA
11	I1	202	CYC	C2A-CAA-CBA-CGA
11	K1	202	CYC	C2A-CAA-CBA-CGA
11	M1	202	CYC	C2A-CAA-CBA-CGA
11	P1	202	CYC	C2A-CAA-CBA-CGA
11	R1	202	CYC	C2A-CAA-CBA-CGA
11	T1	201	CYC	C2A-CAA-CBA-CGA
11	U1	202	CYC	C2A-CAA-CBA-CGA
11	X1	202	CYC	C2A-CAA-CBA-CGA
11	Z1	202	CYC	C2A-CAA-CBA-CGA
11	D4	201	CYC	C2A-CAA-CBA-CGA
11	E4	203	CYC	C2A-CAA-CBA-CGA
11	G4	201	CYC	C2A-CAA-CBA-CGA
11	I4	203	CYC	C2A-CAA-CBA-CGA
11	L4	201	CYC	C2A-CAA-CBA-CGA
11	M4	201	CYC	C2A-CAA-CBA-CGA
11	O4	201	CYC	C2A-CAA-CBA-CGA
11	P4	203	CYC	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
11	S4	201	CYC	C2A-CAA-CBA-CGA
11	U4	201	CYC	C2A-CAA-CBA-CGA
11	W4	201	CYC	C2A-CAA-CBA-CGA
11	Y4	201	CYC	C2A-CAA-CBA-CGA
11	C5	201	CYC	C2A-CAA-CBA-CGA
11	D5	201	CYC	C2A-CAA-CBA-CGA
11	G5	202	CYC	C2A-CAA-CBA-CGA
11	I5	202	CYC	C2A-CAA-CBA-CGA
11	K5	202	CYC	C2A-CAA-CBA-CGA
11	M5	202	CYC	C2A-CAA-CBA-CGA
11	P5	202	CYC	C2A-CAA-CBA-CGA
11	R5	202	CYC	C2A-CAA-CBA-CGA
11	T5	201	CYC	C2A-CAA-CBA-CGA
11	U5	202	CYC	C2A-CAA-CBA-CGA
11	X5	202	CYC	C2A-CAA-CBA-CGA
11	Z5	202	CYC	C2A-CAA-CBA-CGA
11	D8	201	CYC	C2A-CAA-CBA-CGA
11	E8	203	CYC	C2A-CAA-CBA-CGA
11	G8	201	CYC	C2A-CAA-CBA-CGA
11	I8	203	CYC	C2A-CAA-CBA-CGA
11	L8	201	CYC	C2A-CAA-CBA-CGA
11	M8	201	CYC	C2A-CAA-CBA-CGA
11	O8	201	CYC	C2A-CAA-CBA-CGA
11	P8	203	CYC	C2A-CAA-CBA-CGA
11	S8	201	CYC	C2A-CAA-CBA-CGA
11	U8	201	CYC	C2A-CAA-CBA-CGA
11	W8	201	CYC	C2A-CAA-CBA-CGA
11	Y8	201	CYC	C2A-CAA-CBA-CGA
11	A1	301	CYC	NA-C4A-CHB-C1B
11	A1	302	CYC	NA-C4A-CHB-C1B
11	B1	201	CYC	NA-C4A-CHB-C1B
11	C1	202	CYC	NA-C4A-CHB-C1B
11	F1	201	CYC	NA-C4A-CHB-C1B
11	G1	201	CYC	NA-C4A-CHB-C1B
11	H1	201	CYC	NA-C4A-CHB-C1B
11	I1	201	CYC	NA-C4A-CHB-C1B
11	J1	201	CYC	NA-C4A-CHB-C1B
11	K1	201	CYC	NA-C4A-CHB-C1B
11	L1	201	CYC	NA-C4A-CHB-C1B
11	M1	201	CYC	NA-C4A-CHB-C1B
11	N1	301	CYC	NA-C4A-CHB-C1B
11	O1	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	P1	201	CYC	NA-C4A-CHB-C1B
11	Q1	201	CYC	NA-C4A-CHB-C1B
11	R1	201	CYC	NA-C4A-CHB-C1B
11	S1	201	CYC	NA-C4A-CHB-C1B
11	U1	201	CYC	NA-C4A-CHB-C1B
11	V1	201	CYC	NA-C4A-CHB-C1B
11	V1	202	CYC	NA-C4A-CHB-C1B
11	X1	201	CYC	NA-C4A-CHB-C1B
11	X1	203	CYC	NA-C4A-CHB-C1B
11	Z1	201	CYC	NA-C4A-CHB-C1B
11	B2	201	CYC	C2A-CAA-CBA-CGA
11	C2	202	CYC	NA-C4A-CHB-C1B
11	D2	201	CYC	C2A-CAA-CBA-CGA
11	E2	202	CYC	NA-C4A-CHB-C1B
11	E2	203	CYC	C2A-CAA-CBA-CGA
11	G2	201	CYC	NA-C4A-CHB-C1B
11	H2	201	CYC	C2A-CAA-CBA-CGA
11	I2	202	CYC	NA-C4A-CHB-C1B
11	I2	203	CYC	C2A-CAA-CBA-CGA
11	K2	202	CYC	NA-C4A-CHB-C1B
11	K2	203	CYC	C2A-CAA-CBA-CGA
11	M2	202	CYC	NA-C4A-CHB-C1B
11	P2	202	CYC	NA-C4A-CHB-C1B
11	Q2	201	CYC	C2A-CAA-CBA-CGA
11	R2	201	CYC	NA-C4A-CHB-C1B
11	S2	201	CYC	C2A-CAA-CBA-CGA
11	T2	201	CYC	C2A-CAA-CBA-CGA
11	T2	202	CYC	NA-C4A-CHB-C1B
11	V2	202	CYC	NA-C4A-CHB-C1B
11	W2	201	CYC	C2A-CAA-CBA-CGA
11	X2	202	CYC	NA-C4A-CHB-C1B
11	X2	203	CYC	C2A-CAA-CBA-CGA
11	Z2	201	CYC	C2A-CAA-CBA-CGA
11	Z2	203	CYC	NA-C4A-CHB-C1B
11	03	902	CYC	NA-C4A-CHB-C1B
11	13	902	CYC	NA-C4A-CHB-C1B
11	13	903	CYC	NA-C4A-CHB-C1B
11	13	904	CYC	NA-C4A-CHB-C1B
11	G3	1001	CYC	NA-C4A-CHB-C1B
11	H3	1001	CYC	NA-C4A-CHB-C1B
11	I3	1001	CYC	NA-C4A-CHB-C1B
11	J3	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	K3	1001	CYC	NA-C4A-CHB-C1B
11	M3	201	CYC	NA-C4A-CHB-C1B
11	N3	1001	CYC	NA-C4A-CHB-C1B
11	O3	1001	CYC	NA-C4A-CHB-C1B
11	P3	1001	CYC	NA-C4A-CHB-C1B
11	Q3	1001	CYC	NA-C4A-CHB-C1B
11	R3	1001	CYC	NA-C4A-CHB-C1B
11	S3	1001	CYC	NA-C4A-CHB-C1B
11	T3	1001	CYC	NA-C4A-CHB-C1B
11	U3	1001	CYC	NA-C4A-CHB-C1B
11	V3	201	CYC	NA-C4A-CHB-C1B
11	W3	1001	CYC	NA-C4A-CHB-C1B
11	X3	1001	CYC	NA-C4A-CHB-C1B
11	Z3	1001	CYC	NA-C4A-CHB-C1B
11	b3	1001	CYC	NA-C4A-CHB-C1B
11	c3	1001	CYC	NA-C4A-CHB-C1B
11	d3	1001	CYC	NA-C4A-CHB-C1B
11	e3	1001	CYC	NA-C4A-CHB-C1B
11	f3	1001	CYC	NA-C4A-CHB-C1B
11	g3	1001	CYC	NA-C4A-CHB-C1B
11	i3	1001	CYC	NA-C4A-CHB-C1B
11	j3	1001	CYC	NA-C4A-CHB-C1B
11	k3	1001	CYC	NA-C4A-CHB-C1B
11	l3	1001	CYC	NA-C4A-CHB-C1B
11	m3	201	CYC	NA-C4A-CHB-C1B
11	n3	1001	CYC	NA-C4A-CHB-C1B
11	o3	1001	CYC	NA-C4A-CHB-C1B
11	p3	1001	CYC	NA-C4A-CHB-C1B
11	q3	1001	CYC	NA-C4A-CHB-C1B
11	r3	1001	CYC	NA-C4A-CHB-C1B
11	s3	1001	CYC	NA-C4A-CHB-C1B
11	t3	1001	CYC	NA-C4A-CHB-C1B
11	u3	1001	CYC	NA-C4A-CHB-C1B
11	v3	1001	CYC	NA-C4A-CHB-C1B
11	w3	1001	CYC	NA-C4A-CHB-C1B
11	x3	1001	CYC	NA-C4A-CHB-C1B
11	y3	1001	CYC	NA-C4A-CHB-C1B
11	z3	1001	CYC	NA-C4A-CHB-C1B
11	C4	201	CYC	NA-C4A-CHB-C1B
11	E4	202	CYC	NA-C4A-CHB-C1B
11	F4	201	CYC	NA-C4A-CHB-C1B
11	I4	202	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	K4	202	CYC	NA-C4A-CHB-C1B
11	L4	202	CYC	NA-C4A-CHB-C1B
11	P4	202	CYC	NA-C4A-CHB-C1B
11	R4	201	CYC	NA-C4A-CHB-C1B
11	T4	202	CYC	NA-C4A-CHB-C1B
11	V4	202	CYC	NA-C4A-CHB-C1B
11	X4	202	CYC	NA-C4A-CHB-C1B
11	Z4	202	CYC	NA-C4A-CHB-C1B
11	A5	301	CYC	NA-C4A-CHB-C1B
11	A5	302	CYC	NA-C4A-CHB-C1B
11	B5	201	CYC	NA-C4A-CHB-C1B
11	C5	202	CYC	NA-C4A-CHB-C1B
11	F5	201	CYC	NA-C4A-CHB-C1B
11	G5	201	CYC	NA-C4A-CHB-C1B
11	H5	201	CYC	NA-C4A-CHB-C1B
11	I5	201	CYC	NA-C4A-CHB-C1B
11	J5	201	CYC	NA-C4A-CHB-C1B
11	K5	201	CYC	NA-C4A-CHB-C1B
11	L5	201	CYC	NA-C4A-CHB-C1B
11	M5	201	CYC	NA-C4A-CHB-C1B
11	N5	301	CYC	NA-C4A-CHB-C1B
11	O5	201	CYC	NA-C4A-CHB-C1B
11	P5	201	CYC	NA-C4A-CHB-C1B
11	Q5	201	CYC	NA-C4A-CHB-C1B
11	R5	201	CYC	NA-C4A-CHB-C1B
11	S5	201	CYC	NA-C4A-CHB-C1B
11	U5	201	CYC	NA-C4A-CHB-C1B
11	V5	201	CYC	NA-C4A-CHB-C1B
11	V5	202	CYC	NA-C4A-CHB-C1B
11	X5	201	CYC	NA-C4A-CHB-C1B
11	X5	203	CYC	NA-C4A-CHB-C1B
11	Z5	201	CYC	NA-C4A-CHB-C1B
11	B6	201	CYC	C2A-CAA-CBA-CGA
11	C6	202	CYC	NA-C4A-CHB-C1B
11	C6	203	CYC	C2A-CAA-CBA-CGA
11	E6	202	CYC	NA-C4A-CHB-C1B
11	F6	201	CYC	C2A-CAA-CBA-CGA
11	G6	201	CYC	NA-C4A-CHB-C1B
11	H6	201	CYC	C2A-CAA-CBA-CGA
11	I6	202	CYC	NA-C4A-CHB-C1B
11	J6	201	CYC	C2A-CAA-CBA-CGA
11	K6	202	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	L6	201	CYC	C2A-CAA-CBA-CGA
11	M6	202	CYC	NA-C4A-CHB-C1B
11	O6	201	CYC	C2A-CAA-CBA-CGA
11	P6	202	CYC	NA-C4A-CHB-C1B
11	Q6	201	CYC	C2A-CAA-CBA-CGA
11	R6	201	CYC	NA-C4A-CHB-C1B
11	R6	202	CYC	C2A-CAA-CBA-CGA
11	T6	201	CYC	NA-C4A-CHB-C1B
11	U6	201	CYC	C2A-CAA-CBA-CGA
11	V6	202	CYC	NA-C4A-CHB-C1B
11	W6	201	CYC	C2A-CAA-CBA-CGA
11	X6	202	CYC	NA-C4A-CHB-C1B
11	Y6	201	CYC	C2A-CAA-CBA-CGA
11	Z6	202	CYC	NA-C4A-CHB-C1B
11	B7	1001	CYC	NA-C4A-CHB-C1B
11	D7	1001	CYC	NA-C4A-CHB-C1B
11	F7	1001	CYC	NA-C4A-CHB-C1B
11	I7	1001	CYC	NA-C4A-CHB-C1B
11	K7	1001	CYC	NA-C4A-CHB-C1B
11	M7	1001	CYC	NA-C4A-CHB-C1B
11	P7	1001	CYC	NA-C4A-CHB-C1B
11	R7	1001	CYC	NA-C4A-CHB-C1B
11	T7	1001	CYC	NA-C4A-CHB-C1B
11	W7	1001	CYC	NA-C4A-CHB-C1B
11	Y7	1001	CYC	NA-C4A-CHB-C1B
11	a7	1001	CYC	NA-C4A-CHB-C1B
11	C8	201	CYC	NA-C4A-CHB-C1B
11	E8	202	CYC	NA-C4A-CHB-C1B
11	F8	201	CYC	NA-C4A-CHB-C1B
11	I8	202	CYC	NA-C4A-CHB-C1B
11	K8	202	CYC	NA-C4A-CHB-C1B
11	L8	202	CYC	NA-C4A-CHB-C1B
11	P8	202	CYC	NA-C4A-CHB-C1B
11	R8	201	CYC	NA-C4A-CHB-C1B
11	T8	202	CYC	NA-C4A-CHB-C1B
11	V8	202	CYC	NA-C4A-CHB-C1B
11	X8	202	CYC	NA-C4A-CHB-C1B
11	Z8	202	CYC	NA-C4A-CHB-C1B
11	D7	1001	CYC	C2B-C3B-CAB-CBB
11	F7	1001	CYC	C2B-C3B-CAB-CBB
11	M7	1001	CYC	C2B-C3B-CAB-CBB
11	B7	1001	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
11	I7	1001	CYC	C2B-C3B-CAB-CBB
11	K7	1001	CYC	C2B-C3B-CAB-CBB
11	P7	1001	CYC	C2B-C3B-CAB-CBB
11	R7	1001	CYC	C2B-C3B-CAB-CBB
11	T7	1001	CYC	C2B-C3B-CAB-CBB
11	W7	1001	CYC	C2B-C3B-CAB-CBB
11	Y7	1001	CYC	C2B-C3B-CAB-CBB
11	a7	1001	CYC	C2B-C3B-CAB-CBB
11	A1	301	CYC	C3A-C4A-CHB-C1B
11	A1	302	CYC	C3A-C4A-CHB-C1B
11	B1	201	CYC	C3A-C4A-CHB-C1B
11	C1	202	CYC	C3A-C4A-CHB-C1B
11	F1	201	CYC	C3A-C4A-CHB-C1B
11	G1	201	CYC	C3A-C4A-CHB-C1B
11	H1	201	CYC	C3A-C4A-CHB-C1B
11	I1	201	CYC	C3A-C4A-CHB-C1B
11	J1	201	CYC	C3A-C4A-CHB-C1B
11	K1	201	CYC	C3A-C4A-CHB-C1B
11	L1	201	CYC	C3A-C4A-CHB-C1B
11	M1	201	CYC	C3A-C4A-CHB-C1B
11	N1	301	CYC	C3A-C4A-CHB-C1B
11	O1	201	CYC	C3A-C4A-CHB-C1B
11	P1	201	CYC	C3A-C4A-CHB-C1B
11	Q1	201	CYC	C3A-C4A-CHB-C1B
11	R1	201	CYC	C3A-C4A-CHB-C1B
11	S1	201	CYC	C3A-C4A-CHB-C1B
11	U1	201	CYC	C3A-C4A-CHB-C1B
11	V1	201	CYC	C3A-C4A-CHB-C1B
11	V1	202	CYC	C3A-C4A-CHB-C1B
11	X1	201	CYC	C3A-C4A-CHB-C1B
11	X1	203	CYC	C3A-C4A-CHB-C1B
11	Z1	201	CYC	C3A-C4A-CHB-C1B
11	C2	202	CYC	C3A-C4A-CHB-C1B
11	E2	202	CYC	C3A-C4A-CHB-C1B
11	G2	201	CYC	C3A-C4A-CHB-C1B
11	I2	202	CYC	C3A-C4A-CHB-C1B
11	K2	202	CYC	C3A-C4A-CHB-C1B
11	M2	202	CYC	C3A-C4A-CHB-C1B
11	P2	202	CYC	C3A-C4A-CHB-C1B
11	R2	201	CYC	C3A-C4A-CHB-C1B
11	T2	202	CYC	C3A-C4A-CHB-C1B
11	V2	202	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	X2	202	CYC	C3A-C4A-CHB-C1B
11	Z2	203	CYC	C3A-C4A-CHB-C1B
11	03	902	CYC	C3A-C4A-CHB-C1B
11	13	902	CYC	C3A-C4A-CHB-C1B
11	13	903	CYC	C3A-C4A-CHB-C1B
11	13	904	CYC	C3A-C4A-CHB-C1B
11	G3	1001	CYC	C3A-C4A-CHB-C1B
11	H3	1001	CYC	C3A-C4A-CHB-C1B
11	I3	1001	CYC	C3A-C4A-CHB-C1B
11	J3	201	CYC	C3A-C4A-CHB-C1B
11	K3	1001	CYC	C3A-C4A-CHB-C1B
11	M3	201	CYC	C3A-C4A-CHB-C1B
11	N3	1001	CYC	C3A-C4A-CHB-C1B
11	O3	1001	CYC	C3A-C4A-CHB-C1B
11	P3	1001	CYC	C3A-C4A-CHB-C1B
11	Q3	1001	CYC	C3A-C4A-CHB-C1B
11	R3	1001	CYC	C3A-C4A-CHB-C1B
11	S3	1001	CYC	C3A-C4A-CHB-C1B
11	T3	1001	CYC	C3A-C4A-CHB-C1B
11	U3	1001	CYC	C3A-C4A-CHB-C1B
11	V3	201	CYC	C3A-C4A-CHB-C1B
11	W3	1001	CYC	C3A-C4A-CHB-C1B
11	X3	1001	CYC	C3A-C4A-CHB-C1B
11	Z3	1001	CYC	C3A-C4A-CHB-C1B
11	b3	1001	CYC	C3A-C4A-CHB-C1B
11	c3	1001	CYC	C3A-C4A-CHB-C1B
11	d3	1001	CYC	C3A-C4A-CHB-C1B
11	e3	1001	CYC	C3A-C4A-CHB-C1B
11	f3	1001	CYC	C3A-C4A-CHB-C1B
11	g3	1001	CYC	C3A-C4A-CHB-C1B
11	i3	1001	CYC	C3A-C4A-CHB-C1B
11	j3	1001	CYC	C3A-C4A-CHB-C1B
11	k3	1001	CYC	C3A-C4A-CHB-C1B
11	l3	1001	CYC	C3A-C4A-CHB-C1B
11	m3	201	CYC	C3A-C4A-CHB-C1B
11	n3	1001	CYC	C3A-C4A-CHB-C1B
11	o3	1001	CYC	C3A-C4A-CHB-C1B
11	p3	1001	CYC	C3A-C4A-CHB-C1B
11	q3	1001	CYC	C3A-C4A-CHB-C1B
11	r3	1001	CYC	C3A-C4A-CHB-C1B
11	s3	1001	CYC	C3A-C4A-CHB-C1B
11	t3	1001	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	u3	1001	CYC	C3A-C4A-CHB-C1B
11	v3	1001	CYC	C3A-C4A-CHB-C1B
11	w3	1001	CYC	C3A-C4A-CHB-C1B
11	x3	1001	CYC	C3A-C4A-CHB-C1B
11	y3	1001	CYC	C3A-C4A-CHB-C1B
11	z3	1001	CYC	C3A-C4A-CHB-C1B
11	A4	301	CYC	C3A-C4A-CHB-C1B
11	C4	201	CYC	C3A-C4A-CHB-C1B
11	E4	201	CYC	C3A-C4A-CHB-C1B
11	E4	202	CYC	C3A-C4A-CHB-C1B
11	F4	201	CYC	C3A-C4A-CHB-C1B
11	G4	202	CYC	C3A-C4A-CHB-C1B
11	I4	201	CYC	C3A-C4A-CHB-C1B
11	I4	202	CYC	C3A-C4A-CHB-C1B
11	K4	201	CYC	C3A-C4A-CHB-C1B
11	K4	202	CYC	C3A-C4A-CHB-C1B
11	L4	202	CYC	C3A-C4A-CHB-C1B
11	M4	202	CYC	C3A-C4A-CHB-C1B
11	N4	301	CYC	C3A-C4A-CHB-C1B
11	P4	201	CYC	C3A-C4A-CHB-C1B
11	P4	202	CYC	C3A-C4A-CHB-C1B
11	R4	201	CYC	C3A-C4A-CHB-C1B
11	T4	201	CYC	C3A-C4A-CHB-C1B
11	T4	202	CYC	C3A-C4A-CHB-C1B
11	V4	201	CYC	C3A-C4A-CHB-C1B
11	V4	202	CYC	C3A-C4A-CHB-C1B
11	X4	201	CYC	C3A-C4A-CHB-C1B
11	X4	202	CYC	C3A-C4A-CHB-C1B
11	Z4	201	CYC	C3A-C4A-CHB-C1B
11	Z4	202	CYC	C3A-C4A-CHB-C1B
11	A5	301	CYC	C3A-C4A-CHB-C1B
11	A5	302	CYC	C3A-C4A-CHB-C1B
11	B5	201	CYC	C3A-C4A-CHB-C1B
11	C5	202	CYC	C3A-C4A-CHB-C1B
11	F5	201	CYC	C3A-C4A-CHB-C1B
11	G5	201	CYC	C3A-C4A-CHB-C1B
11	H5	201	CYC	C3A-C4A-CHB-C1B
11	I5	201	CYC	C3A-C4A-CHB-C1B
11	J5	201	CYC	C3A-C4A-CHB-C1B
11	K5	201	CYC	C3A-C4A-CHB-C1B
11	L5	201	CYC	C3A-C4A-CHB-C1B
11	M5	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	N5	301	CYC	C3A-C4A-CHB-C1B
11	O5	201	CYC	C3A-C4A-CHB-C1B
11	P5	201	CYC	C3A-C4A-CHB-C1B
11	Q5	201	CYC	C3A-C4A-CHB-C1B
11	R5	201	CYC	C3A-C4A-CHB-C1B
11	S5	201	CYC	C3A-C4A-CHB-C1B
11	U5	201	CYC	C3A-C4A-CHB-C1B
11	V5	201	CYC	C3A-C4A-CHB-C1B
11	V5	202	CYC	C3A-C4A-CHB-C1B
11	X5	201	CYC	C3A-C4A-CHB-C1B
11	X5	203	CYC	C3A-C4A-CHB-C1B
11	Z5	201	CYC	C3A-C4A-CHB-C1B
11	C6	202	CYC	C3A-C4A-CHB-C1B
11	E6	202	CYC	C3A-C4A-CHB-C1B
11	G6	201	CYC	C3A-C4A-CHB-C1B
11	I6	202	CYC	C3A-C4A-CHB-C1B
11	K6	202	CYC	C3A-C4A-CHB-C1B
11	M6	202	CYC	C3A-C4A-CHB-C1B
11	P6	202	CYC	C3A-C4A-CHB-C1B
11	R6	201	CYC	C3A-C4A-CHB-C1B
11	T6	201	CYC	C3A-C4A-CHB-C1B
11	V6	202	CYC	C3A-C4A-CHB-C1B
11	X6	202	CYC	C3A-C4A-CHB-C1B
11	Z6	202	CYC	C3A-C4A-CHB-C1B
11	B7	1001	CYC	C3A-C4A-CHB-C1B
11	D7	1001	CYC	C3A-C4A-CHB-C1B
11	F7	1001	CYC	C3A-C4A-CHB-C1B
11	I7	1001	CYC	C3A-C4A-CHB-C1B
11	K7	1001	CYC	C3A-C4A-CHB-C1B
11	M7	1001	CYC	C3A-C4A-CHB-C1B
11	P7	1001	CYC	C3A-C4A-CHB-C1B
11	R7	1001	CYC	C3A-C4A-CHB-C1B
11	T7	1001	CYC	C3A-C4A-CHB-C1B
11	W7	1001	CYC	C3A-C4A-CHB-C1B
11	Y7	1001	CYC	C3A-C4A-CHB-C1B
11	a7	1001	CYC	C3A-C4A-CHB-C1B
11	A8	301	CYC	C3A-C4A-CHB-C1B
11	C8	201	CYC	C3A-C4A-CHB-C1B
11	E8	201	CYC	C3A-C4A-CHB-C1B
11	E8	202	CYC	C3A-C4A-CHB-C1B
11	F8	201	CYC	C3A-C4A-CHB-C1B
11	G8	202	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
11	I8	201	CYC	C3A-C4A-CHB-C1B
11	I8	202	CYC	C3A-C4A-CHB-C1B
11	K8	201	CYC	C3A-C4A-CHB-C1B
11	K8	202	CYC	C3A-C4A-CHB-C1B
11	L8	202	CYC	C3A-C4A-CHB-C1B
11	M8	202	CYC	C3A-C4A-CHB-C1B
11	N8	301	CYC	C3A-C4A-CHB-C1B
11	P8	201	CYC	C3A-C4A-CHB-C1B
11	P8	202	CYC	C3A-C4A-CHB-C1B
11	R8	201	CYC	C3A-C4A-CHB-C1B
11	T8	201	CYC	C3A-C4A-CHB-C1B
11	T8	202	CYC	C3A-C4A-CHB-C1B
11	V8	201	CYC	C3A-C4A-CHB-C1B
11	V8	202	CYC	C3A-C4A-CHB-C1B
11	X8	201	CYC	C3A-C4A-CHB-C1B
11	X8	202	CYC	C3A-C4A-CHB-C1B
11	Z8	201	CYC	C3A-C4A-CHB-C1B
11	Z8	202	CYC	C3A-C4A-CHB-C1B
11	B1	201	CYC	C2C-C3C-CAC-CBC
11	B1	201	CYC	C3D-CAD-CBD-CGD
11	C1	202	CYC	C2C-C3C-CAC-CBC
11	C1	202	CYC	C3D-CAD-CBD-CGD
11	F1	201	CYC	C2C-C3C-CAC-CBC
11	F1	201	CYC	C3D-CAD-CBD-CGD
11	H1	201	CYC	C2C-C3C-CAC-CBC
11	H1	201	CYC	C3D-CAD-CBD-CGD
11	J1	201	CYC	C2C-C3C-CAC-CBC
11	J1	201	CYC	C3D-CAD-CBD-CGD
11	L1	201	CYC	C2C-C3C-CAC-CBC
11	L1	201	CYC	C3D-CAD-CBD-CGD
11	O1	201	CYC	C2C-C3C-CAC-CBC
11	O1	201	CYC	C3D-CAD-CBD-CGD
11	Q1	201	CYC	C2C-C3C-CAC-CBC
11	Q1	201	CYC	C3D-CAD-CBD-CGD
11	S1	201	CYC	C2C-C3C-CAC-CBC
11	S1	201	CYC	C3D-CAD-CBD-CGD
11	U1	201	CYC	C2C-C3C-CAC-CBC
11	U1	201	CYC	C3D-CAD-CBD-CGD
11	V1	202	CYC	C2C-C3C-CAC-CBC
11	V1	202	CYC	C3D-CAD-CBD-CGD
11	X1	203	CYC	C2C-C3C-CAC-CBC
11	X1	203	CYC	C3D-CAD-CBD-CGD

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Mol	Chain	Res	Type	Atoms
11	D4	201	CYC	C2C-C3C-CAC-CBC
11	E4	203	CYC	C2C-C3C-CAC-CBC
11	G4	201	CYC	C2C-C3C-CAC-CBC
11	I4	203	CYC	C2C-C3C-CAC-CBC
11	L4	201	CYC	C2C-C3C-CAC-CBC
11	M4	201	CYC	C2C-C3C-CAC-CBC
11	O4	201	CYC	C2C-C3C-CAC-CBC
11	P4	203	CYC	C2C-C3C-CAC-CBC
11	S4	201	CYC	C2C-C3C-CAC-CBC
11	U4	201	CYC	C2C-C3C-CAC-CBC
11	W4	201	CYC	C2C-C3C-CAC-CBC
11	Y4	201	CYC	C2C-C3C-CAC-CBC
11	B5	201	CYC	C2C-C3C-CAC-CBC
11	B5	201	CYC	C3D-CAD-CBD-CGD
11	C5	202	CYC	C2C-C3C-CAC-CBC
11	C5	202	CYC	C3D-CAD-CBD-CGD
11	F5	201	CYC	C2C-C3C-CAC-CBC
11	F5	201	CYC	C3D-CAD-CBD-CGD
11	H5	201	CYC	C2C-C3C-CAC-CBC
11	H5	201	CYC	C3D-CAD-CBD-CGD
11	J5	201	CYC	C2C-C3C-CAC-CBC
11	J5	201	CYC	C3D-CAD-CBD-CGD
11	L5	201	CYC	C2C-C3C-CAC-CBC
11	L5	201	CYC	C3D-CAD-CBD-CGD
11	O5	201	CYC	C2C-C3C-CAC-CBC
11	O5	201	CYC	C3D-CAD-CBD-CGD
11	Q5	201	CYC	C2C-C3C-CAC-CBC
11	Q5	201	CYC	C3D-CAD-CBD-CGD
11	S5	201	CYC	C2C-C3C-CAC-CBC
11	S5	201	CYC	C3D-CAD-CBD-CGD
11	U5	201	CYC	C2C-C3C-CAC-CBC
11	U5	201	CYC	C3D-CAD-CBD-CGD
11	V5	202	CYC	C2C-C3C-CAC-CBC
11	V5	202	CYC	C3D-CAD-CBD-CGD
11	X5	203	CYC	C2C-C3C-CAC-CBC
11	X5	203	CYC	C3D-CAD-CBD-CGD
11	D8	201	CYC	C2C-C3C-CAC-CBC
11	E8	203	CYC	C2C-C3C-CAC-CBC
11	G8	201	CYC	C2C-C3C-CAC-CBC
11	I8	203	CYC	C2C-C3C-CAC-CBC
11	L8	201	CYC	C2C-C3C-CAC-CBC
11	M8	201	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
11	O8	201	CYC	C2C-C3C-CAC-CBC
11	P8	203	CYC	C2C-C3C-CAC-CBC
11	S8	201	CYC	C2C-C3C-CAC-CBC
11	U8	201	CYC	C2C-C3C-CAC-CBC
11	W8	201	CYC	C2C-C3C-CAC-CBC
11	Y8	201	CYC	C2C-C3C-CAC-CBC
11	E7	1001	CYC	C2B-C3B-CAB-CBB
11	Q7	1001	CYC	C2B-C3B-CAB-CBB
11	X7	1001	CYC	C2B-C3B-CAB-CBB
11	H7	1001	CYC	C2B-C3B-CAB-CBB
11	L7	1001	CYC	C2B-C3B-CAB-CBB
11	O7	1001	CYC	C2B-C3B-CAB-CBB
11	Z7	1001	CYC	C2B-C3B-CAB-CBB
11	A7	1001	CYC	C2B-C3B-CAB-CBB
11	C7	1001	CYC	C2B-C3B-CAB-CBB
11	J7	1001	CYC	C2B-C3B-CAB-CBB
11	S7	1001	CYC	C2B-C3B-CAB-CBB
11	V7	1001	CYC	C2B-C3B-CAB-CBB
11	13	901	CYC	C2B-C3B-CAB-CBB
11	03	901	CYC	C2B-C3B-CAB-CBB
11	03	902	CYC	C3A-C2A-CAA-CBA
11	13	903	CYC	C3A-C2A-CAA-CBA
11	H3	1001	CYC	C3A-C2A-CAA-CBA
11	M3	201	CYC	C3A-C2A-CAA-CBA
11	W3	1001	CYC	C3A-C2A-CAA-CBA
11	e3	1001	CYC	C3A-C2A-CAA-CBA
11	l3	1001	CYC	C3A-C2A-CAA-CBA
11	z3	1001	CYC	C3A-C2A-CAA-CBA
11	C1	201	CYC	C2D-C3D-CAD-CBD
11	C1	201	CYC	C4D-C3D-CAD-CBD
11	D1	201	CYC	C2D-C3D-CAD-CBD
11	D1	201	CYC	C4D-C3D-CAD-CBD
11	G1	202	CYC	C2D-C3D-CAD-CBD
11	G1	202	CYC	C4D-C3D-CAD-CBD
11	I1	202	CYC	C2D-C3D-CAD-CBD
11	I1	202	CYC	C4D-C3D-CAD-CBD
11	K1	202	CYC	C2D-C3D-CAD-CBD
11	K1	202	CYC	C4D-C3D-CAD-CBD
11	M1	202	CYC	C2D-C3D-CAD-CBD
11	M1	202	CYC	C4D-C3D-CAD-CBD
11	P1	202	CYC	C2D-C3D-CAD-CBD
11	P1	202	CYC	C4D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
11	R1	202	CYC	C2D-C3D-CAD-CBD
11	R1	202	CYC	C4D-C3D-CAD-CBD
11	T1	201	CYC	C2D-C3D-CAD-CBD
11	T1	201	CYC	C4D-C3D-CAD-CBD
11	U1	202	CYC	C2D-C3D-CAD-CBD
11	U1	202	CYC	C4D-C3D-CAD-CBD
11	X1	202	CYC	C2D-C3D-CAD-CBD
11	X1	202	CYC	C4D-C3D-CAD-CBD
11	Z1	202	CYC	C2D-C3D-CAD-CBD
11	Z1	202	CYC	C4D-C3D-CAD-CBD
11	C5	201	CYC	C2D-C3D-CAD-CBD
11	C5	201	CYC	C4D-C3D-CAD-CBD
11	D5	201	CYC	C2D-C3D-CAD-CBD
11	D5	201	CYC	C4D-C3D-CAD-CBD
11	G5	202	CYC	C2D-C3D-CAD-CBD
11	G5	202	CYC	C4D-C3D-CAD-CBD
11	I5	202	CYC	C2D-C3D-CAD-CBD
11	I5	202	CYC	C4D-C3D-CAD-CBD
11	K5	202	CYC	C2D-C3D-CAD-CBD
11	K5	202	CYC	C4D-C3D-CAD-CBD
11	M5	202	CYC	C2D-C3D-CAD-CBD
11	M5	202	CYC	C4D-C3D-CAD-CBD
11	P5	202	CYC	C2D-C3D-CAD-CBD
11	P5	202	CYC	C4D-C3D-CAD-CBD
11	R5	202	CYC	C2D-C3D-CAD-CBD
11	R5	202	CYC	C4D-C3D-CAD-CBD
11	T5	201	CYC	C2D-C3D-CAD-CBD
11	T5	201	CYC	C4D-C3D-CAD-CBD
11	U5	202	CYC	C2D-C3D-CAD-CBD
11	U5	202	CYC	C4D-C3D-CAD-CBD
11	X5	202	CYC	C2D-C3D-CAD-CBD
11	X5	202	CYC	C4D-C3D-CAD-CBD
11	Z5	202	CYC	C2D-C3D-CAD-CBD
11	Z5	202	CYC	C4D-C3D-CAD-CBD
11	03	902	CYC	C1A-C2A-CAA-CBA
11	13	902	CYC	C1A-C2A-CAA-CBA
11	13	903	CYC	C1A-C2A-CAA-CBA
11	13	904	CYC	C1A-C2A-CAA-CBA
11	H3	1001	CYC	C1A-C2A-CAA-CBA
11	J3	201	CYC	C1A-C2A-CAA-CBA
11	M3	201	CYC	C1A-C2A-CAA-CBA
11	O3	1001	CYC	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
11	S3	1001	CYC	C1A-C2A-CAA-CBA
11	U3	1001	CYC	C1A-C2A-CAA-CBA
11	W3	1001	CYC	C1A-C2A-CAA-CBA
11	c3	1001	CYC	C1A-C2A-CAA-CBA
11	e3	1001	CYC	C1A-C2A-CAA-CBA
11	j3	1001	CYC	C1A-C2A-CAA-CBA
11	l3	1001	CYC	C1A-C2A-CAA-CBA
11	n3	1001	CYC	C1A-C2A-CAA-CBA
11	p3	1001	CYC	C1A-C2A-CAA-CBA
11	r3	1001	CYC	C1A-C2A-CAA-CBA
11	t3	1001	CYC	C1A-C2A-CAA-CBA
11	v3	1001	CYC	C1A-C2A-CAA-CBA
11	x3	1001	CYC	C1A-C2A-CAA-CBA
11	z3	1001	CYC	C1A-C2A-CAA-CBA
11	13	902	CYC	C3A-C2A-CAA-CBA
11	13	904	CYC	C3A-C2A-CAA-CBA
11	J3	201	CYC	C3A-C2A-CAA-CBA
11	O3	1001	CYC	C3A-C2A-CAA-CBA
11	S3	1001	CYC	C3A-C2A-CAA-CBA
11	U3	1001	CYC	C3A-C2A-CAA-CBA
11	c3	1001	CYC	C3A-C2A-CAA-CBA
11	j3	1001	CYC	C3A-C2A-CAA-CBA
11	n3	1001	CYC	C3A-C2A-CAA-CBA
11	p3	1001	CYC	C3A-C2A-CAA-CBA
11	r3	1001	CYC	C3A-C2A-CAA-CBA
11	t3	1001	CYC	C3A-C2A-CAA-CBA
11	v3	1001	CYC	C3A-C2A-CAA-CBA
11	x3	1001	CYC	C3A-C2A-CAA-CBA
11	C1	201	CYC	CAD-CBD-CGD-O2D
11	D1	201	CYC	CAD-CBD-CGD-O2D
11	G1	202	CYC	CAD-CBD-CGD-O2D
11	I1	202	CYC	CAD-CBD-CGD-O2D
11	K1	202	CYC	CAD-CBD-CGD-O2D
11	M1	202	CYC	CAD-CBD-CGD-O2D
11	R1	202	CYC	CAD-CBD-CGD-O2D
11	U1	202	CYC	CAD-CBD-CGD-O2D
11	X1	202	CYC	CAD-CBD-CGD-O2D
11	Z1	202	CYC	CAD-CBD-CGD-O2D
11	V3	201	CYC	CAA-CBA-CGA-O2A
11	m3	201	CYC	CAA-CBA-CGA-O2A
11	C5	201	CYC	CAD-CBD-CGD-O2D
11	D5	201	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
11	G5	202	CYC	CAD-CBD-CGD-O2D
11	K5	202	CYC	CAD-CBD-CGD-O2D
11	R5	202	CYC	CAD-CBD-CGD-O2D
11	U5	202	CYC	CAD-CBD-CGD-O2D
11	Z5	202	CYC	CAD-CBD-CGD-O2D
11	B7	1001	CYC	CAD-CBD-CGD-O2D
11	D7	1001	CYC	CAD-CBD-CGD-O2D
11	F7	1001	CYC	CAD-CBD-CGD-O2D
11	I7	1001	CYC	CAD-CBD-CGD-O2D
11	K7	1001	CYC	CAD-CBD-CGD-O2D
11	M7	1001	CYC	CAD-CBD-CGD-O2D
11	P7	1001	CYC	CAD-CBD-CGD-O2D
11	R7	1001	CYC	CAD-CBD-CGD-O2D
11	T7	1001	CYC	CAD-CBD-CGD-O2D
11	W7	1001	CYC	CAD-CBD-CGD-O2D
11	Y7	1001	CYC	CAD-CBD-CGD-O2D
11	a7	1001	CYC	CAD-CBD-CGD-O2D
11	I5	202	CYC	CAD-CBD-CGD-O2D
11	M5	202	CYC	CAD-CBD-CGD-O2D
11	T1	201	CYC	CAD-CBD-CGD-O2D
11	03	901	CYC	CAD-CBD-CGD-O1D
11	13	901	CYC	CAD-CBD-CGD-O1D
11	X5	202	CYC	CAD-CBD-CGD-O2D
11	P1	202	CYC	CAD-CBD-CGD-O2D
11	P5	202	CYC	CAD-CBD-CGD-O2D
11	T5	201	CYC	CAD-CBD-CGD-O2D
11	C1	201	CYC	CAA-CBA-CGA-O1A
11	D1	201	CYC	CAA-CBA-CGA-O1A
11	G1	202	CYC	CAA-CBA-CGA-O1A
11	I1	202	CYC	CAA-CBA-CGA-O1A
11	K1	202	CYC	CAA-CBA-CGA-O1A
11	M1	202	CYC	CAA-CBA-CGA-O1A
11	P1	202	CYC	CAA-CBA-CGA-O1A
11	R1	202	CYC	CAA-CBA-CGA-O1A
11	T1	201	CYC	CAA-CBA-CGA-O1A
11	U1	202	CYC	CAA-CBA-CGA-O1A
11	X1	202	CYC	CAA-CBA-CGA-O1A
11	Z1	202	CYC	CAA-CBA-CGA-O1A
11	Q3	1001	CYC	CAD-CBD-CGD-O1D
11	g3	1001	CYC	CAD-CBD-CGD-O1D
11	C5	201	CYC	CAA-CBA-CGA-O1A
11	D5	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
11	G5	202	CYC	CAA-CBA-CGA-O1A
11	I5	202	CYC	CAA-CBA-CGA-O1A
11	K5	202	CYC	CAA-CBA-CGA-O1A
11	M5	202	CYC	CAA-CBA-CGA-O1A
11	P5	202	CYC	CAA-CBA-CGA-O1A
11	R5	202	CYC	CAA-CBA-CGA-O1A
11	T5	201	CYC	CAA-CBA-CGA-O1A
11	U5	202	CYC	CAA-CBA-CGA-O1A
11	X5	202	CYC	CAA-CBA-CGA-O1A
11	Z5	202	CYC	CAA-CBA-CGA-O1A
11	C1	201	CYC	CAD-CBD-CGD-O1D
11	D1	201	CYC	CAD-CBD-CGD-O1D
11	G1	202	CYC	CAD-CBD-CGD-O1D
11	I1	202	CYC	CAD-CBD-CGD-O1D
11	K1	202	CYC	CAD-CBD-CGD-O1D
11	M1	202	CYC	CAD-CBD-CGD-O1D
11	P1	202	CYC	CAD-CBD-CGD-O1D
11	R1	202	CYC	CAD-CBD-CGD-O1D
11	T1	201	CYC	CAD-CBD-CGD-O1D
11	U1	202	CYC	CAD-CBD-CGD-O1D
11	X1	202	CYC	CAD-CBD-CGD-O1D
11	Z1	202	CYC	CAD-CBD-CGD-O1D
11	C5	201	CYC	CAD-CBD-CGD-O1D
11	D5	201	CYC	CAD-CBD-CGD-O1D
11	G5	202	CYC	CAD-CBD-CGD-O1D
11	I5	202	CYC	CAD-CBD-CGD-O1D
11	K5	202	CYC	CAD-CBD-CGD-O1D
11	M5	202	CYC	CAD-CBD-CGD-O1D
11	P5	202	CYC	CAD-CBD-CGD-O1D
11	R5	202	CYC	CAD-CBD-CGD-O1D
11	U5	202	CYC	CAD-CBD-CGD-O1D
11	X5	202	CYC	CAD-CBD-CGD-O1D
11	K2	203	CYC	CAD-CBD-CGD-O1D
11	Z2	201	CYC	CAD-CBD-CGD-O1D
11	D5	201	CYC	CAA-CBA-CGA-O2A
11	T5	201	CYC	CAD-CBD-CGD-O1D
11	X5	202	CYC	CAA-CBA-CGA-O2A
11	Z5	202	CYC	CAD-CBD-CGD-O1D
11	Y6	201	CYC	CAD-CBD-CGD-O1D
11	C1	201	CYC	CAA-CBA-CGA-O2A
11	D1	201	CYC	CAA-CBA-CGA-O2A
11	G1	202	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
11	I1	202	CYC	CAA-CBA-CGA-O2A
11	K1	202	CYC	CAA-CBA-CGA-O2A
11	M1	202	CYC	CAA-CBA-CGA-O2A
11	P1	202	CYC	CAA-CBA-CGA-O2A
11	R1	202	CYC	CAA-CBA-CGA-O2A
11	T1	201	CYC	CAA-CBA-CGA-O2A
11	U1	202	CYC	CAA-CBA-CGA-O2A
11	X1	202	CYC	CAA-CBA-CGA-O2A
11	Z1	202	CYC	CAA-CBA-CGA-O2A
11	B2	201	CYC	CAD-CBD-CGD-O1D
11	D2	201	CYC	CAD-CBD-CGD-O1D
11	E2	203	CYC	CAD-CBD-CGD-O1D
11	I2	203	CYC	CAD-CBD-CGD-O1D
11	Q2	201	CYC	CAD-CBD-CGD-O1D
11	S2	201	CYC	CAD-CBD-CGD-O1D
11	T2	201	CYC	CAD-CBD-CGD-O1D
11	W2	201	CYC	CAD-CBD-CGD-O1D
11	X2	203	CYC	CAD-CBD-CGD-O1D
11	C5	201	CYC	CAA-CBA-CGA-O2A
11	G5	202	CYC	CAA-CBA-CGA-O2A
11	I5	202	CYC	CAA-CBA-CGA-O2A
11	K5	202	CYC	CAA-CBA-CGA-O2A
11	M5	202	CYC	CAA-CBA-CGA-O2A
11	P5	202	CYC	CAA-CBA-CGA-O2A
11	R5	202	CYC	CAA-CBA-CGA-O2A
11	S5	201	CYC	CAA-CBA-CGA-O1A
11	T5	201	CYC	CAA-CBA-CGA-O2A
11	U5	202	CYC	CAA-CBA-CGA-O2A
11	Z5	202	CYC	CAA-CBA-CGA-O2A
11	C6	203	CYC	CAD-CBD-CGD-O1D
11	F6	201	CYC	CAD-CBD-CGD-O1D
11	H6	201	CYC	CAD-CBD-CGD-O1D
11	J6	201	CYC	CAD-CBD-CGD-O1D
11	L6	201	CYC	CAD-CBD-CGD-O1D
11	O6	201	CYC	CAD-CBD-CGD-O1D
11	Q6	201	CYC	CAD-CBD-CGD-O1D
11	U6	201	CYC	CAD-CBD-CGD-O1D
11	W6	201	CYC	CAD-CBD-CGD-O1D
11	A1	301	CYC	C4B-C3B-CAB-CBB
11	A1	302	CYC	C4B-C3B-CAB-CBB
11	G1	201	CYC	C4B-C3B-CAB-CBB
11	I1	201	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
11	K1	201	CYC	C4B-C3B-CAB-CBB
11	M1	201	CYC	C4B-C3B-CAB-CBB
11	N1	301	CYC	C4B-C3B-CAB-CBB
11	P1	201	CYC	C4B-C3B-CAB-CBB
11	R1	201	CYC	C4B-C3B-CAB-CBB
11	V1	201	CYC	C4B-C3B-CAB-CBB
11	X1	201	CYC	C4B-C3B-CAB-CBB
11	Z1	201	CYC	C4B-C3B-CAB-CBB
11	A5	301	CYC	C4B-C3B-CAB-CBB
11	A5	302	CYC	C4B-C3B-CAB-CBB
11	G5	201	CYC	C4B-C3B-CAB-CBB
11	I5	201	CYC	C4B-C3B-CAB-CBB
11	K5	201	CYC	C4B-C3B-CAB-CBB
11	M5	201	CYC	C4B-C3B-CAB-CBB
11	N5	301	CYC	C4B-C3B-CAB-CBB
11	P5	201	CYC	C4B-C3B-CAB-CBB
11	R5	201	CYC	C4B-C3B-CAB-CBB
11	V5	201	CYC	C4B-C3B-CAB-CBB
11	X5	201	CYC	C4B-C3B-CAB-CBB
11	Z5	201	CYC	C4B-C3B-CAB-CBB
11	B1	201	CYC	CAA-CBA-CGA-O1A
11	C1	202	CYC	CAA-CBA-CGA-O1A
11	F1	201	CYC	CAA-CBA-CGA-O1A
11	H1	201	CYC	CAA-CBA-CGA-O1A
11	J1	201	CYC	CAA-CBA-CGA-O1A
11	L1	201	CYC	CAA-CBA-CGA-O1A
11	O1	201	CYC	CAA-CBA-CGA-O1A
11	Q1	201	CYC	CAA-CBA-CGA-O1A
11	S1	201	CYC	CAA-CBA-CGA-O1A
11	U1	201	CYC	CAA-CBA-CGA-O1A
11	V1	202	CYC	CAA-CBA-CGA-O1A
11	X1	203	CYC	CAA-CBA-CGA-O1A
11	H2	201	CYC	CAD-CBD-CGD-O1D
11	B5	201	CYC	CAA-CBA-CGA-O1A
11	C5	202	CYC	CAA-CBA-CGA-O1A
11	F5	201	CYC	CAA-CBA-CGA-O1A
11	H5	201	CYC	CAA-CBA-CGA-O1A
11	J5	201	CYC	CAA-CBA-CGA-O1A
11	L5	201	CYC	CAA-CBA-CGA-O1A
11	O5	201	CYC	CAA-CBA-CGA-O1A
11	Q5	201	CYC	CAA-CBA-CGA-O1A
11	U5	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
11	V5	202	CYC	CAA-CBA-CGA-O1A
11	X5	203	CYC	CAA-CBA-CGA-O1A
11	B6	201	CYC	CAD-CBD-CGD-O1D
11	R6	202	CYC	CAD-CBD-CGD-O1D
11	O1	201	CYC	CAA-CBA-CGA-O2A
11	U1	201	CYC	CAA-CBA-CGA-O2A
11	V3	201	CYC	CAA-CBA-CGA-O1A
11	m3	201	CYC	CAA-CBA-CGA-O1A
11	O5	201	CYC	CAA-CBA-CGA-O2A
11	S5	201	CYC	CAA-CBA-CGA-O2A
11	V5	202	CYC	CAA-CBA-CGA-O2A
11	B1	201	CYC	CAA-CBA-CGA-O2A
11	C1	202	CYC	CAA-CBA-CGA-O2A
11	F1	201	CYC	CAA-CBA-CGA-O2A
11	L1	201	CYC	CAA-CBA-CGA-O2A
11	Q1	201	CYC	CAA-CBA-CGA-O2A
11	S1	201	CYC	CAA-CBA-CGA-O2A
11	V1	202	CYC	CAA-CBA-CGA-O2A
11	X1	203	CYC	CAA-CBA-CGA-O2A
11	B5	201	CYC	CAA-CBA-CGA-O2A
11	C5	202	CYC	CAA-CBA-CGA-O2A
11	F5	201	CYC	CAA-CBA-CGA-O2A
11	H5	201	CYC	CAA-CBA-CGA-O2A
11	J5	201	CYC	CAA-CBA-CGA-O2A
11	L5	201	CYC	CAA-CBA-CGA-O2A
11	Q5	201	CYC	CAA-CBA-CGA-O2A
11	H1	201	CYC	CAA-CBA-CGA-O2A
11	J1	201	CYC	CAA-CBA-CGA-O2A
11	m3	201	CYC	CAD-CBD-CGD-O1D
11	U5	201	CYC	CAA-CBA-CGA-O2A
11	X5	203	CYC	CAA-CBA-CGA-O2A
11	P1	201	CYC	CAA-CBA-CGA-O1A
11	R1	201	CYC	CAA-CBA-CGA-O1A
11	V3	201	CYC	CAD-CBD-CGD-O1D
11	I5	201	CYC	CAA-CBA-CGA-O1A
11	A1	301	CYC	CAA-CBA-CGA-O1A
11	A1	302	CYC	CAA-CBA-CGA-O1A
11	G1	201	CYC	CAA-CBA-CGA-O1A
11	I1	201	CYC	CAA-CBA-CGA-O1A
11	M1	201	CYC	CAA-CBA-CGA-O1A
11	N1	301	CYC	CAA-CBA-CGA-O1A
11	V1	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
11	V3	201	CYC	CAD-CBD-CGD-O2D
11	m3	201	CYC	CAD-CBD-CGD-O2D
11	G5	201	CYC	CAA-CBA-CGA-O1A
11	K5	201	CYC	CAA-CBA-CGA-O1A
11	M5	201	CYC	CAA-CBA-CGA-O1A
11	P5	201	CYC	CAA-CBA-CGA-O1A
11	R5	201	CYC	CAA-CBA-CGA-O1A
11	Z5	201	CYC	CAA-CBA-CGA-O1A
11	A1	301	CYC	CAA-CBA-CGA-O2A
11	A1	302	CYC	CAA-CBA-CGA-O2A
11	I1	201	CYC	CAA-CBA-CGA-O2A
11	K1	201	CYC	CAA-CBA-CGA-O1A
11	N1	301	CYC	CAA-CBA-CGA-O2A
11	R1	201	CYC	CAA-CBA-CGA-O2A
11	X1	201	CYC	CAA-CBA-CGA-O1A
11	Z1	201	CYC	CAA-CBA-CGA-O1A
11	03	901	CYC	CAD-CBD-CGD-O2D
11	13	901	CYC	CAD-CBD-CGD-O2D
11	A5	301	CYC	CAA-CBA-CGA-O1A
11	A5	301	CYC	CAA-CBA-CGA-O2A
11	A5	302	CYC	CAA-CBA-CGA-O1A
11	N5	301	CYC	CAA-CBA-CGA-O1A
11	N5	301	CYC	CAA-CBA-CGA-O2A
11	P5	201	CYC	CAA-CBA-CGA-O2A
11	R5	201	CYC	CAA-CBA-CGA-O2A
11	V5	201	CYC	CAA-CBA-CGA-O1A
11	X5	201	CYC	CAA-CBA-CGA-O1A
11	X5	201	CYC	CAA-CBA-CGA-O2A
11	Z5	201	CYC	CAA-CBA-CGA-O2A
11	B7	1001	CYC	CAD-CBD-CGD-O1D
11	D7	1001	CYC	CAD-CBD-CGD-O1D
11	F7	1001	CYC	CAD-CBD-CGD-O1D
11	I7	1001	CYC	CAD-CBD-CGD-O1D
11	K7	1001	CYC	CAD-CBD-CGD-O1D
11	M7	1001	CYC	CAD-CBD-CGD-O1D
11	P7	1001	CYC	CAD-CBD-CGD-O1D
11	R7	1001	CYC	CAD-CBD-CGD-O1D
11	Y7	1001	CYC	CAD-CBD-CGD-O1D
11	a7	1001	CYC	CAD-CBD-CGD-O1D
11	K2	202	CYC	CAA-CBA-CGA-O2A
11	R2	201	CYC	CAA-CBA-CGA-O2A
11	R4	201	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
11	Z4	202	CYC	CAA-CBA-CGA-O2A
11	A5	302	CYC	CAA-CBA-CGA-O2A
11	I5	201	CYC	CAA-CBA-CGA-O2A
11	M5	201	CYC	CAA-CBA-CGA-O2A
11	K6	202	CYC	CAA-CBA-CGA-O2A
11	R6	201	CYC	CAA-CBA-CGA-O2A
11	W7	1001	CYC	CAD-CBD-CGD-O1D
11	K8	202	CYC	CAA-CBA-CGA-O2A
11	R8	201	CYC	CAA-CBA-CGA-O2A
11	G1	201	CYC	CAA-CBA-CGA-O2A
11	K1	201	CYC	CAA-CBA-CGA-O2A
11	M1	201	CYC	CAA-CBA-CGA-O2A
11	P1	201	CYC	CAA-CBA-CGA-O2A
11	V1	201	CYC	CAA-CBA-CGA-O2A
11	X1	201	CYC	CAA-CBA-CGA-O2A
11	Z1	201	CYC	CAA-CBA-CGA-O2A
11	C2	202	CYC	CAA-CBA-CGA-O2A
11	E2	202	CYC	CAA-CBA-CGA-O2A
11	G2	201	CYC	CAA-CBA-CGA-O2A
11	I2	202	CYC	CAA-CBA-CGA-O2A
11	M2	202	CYC	CAA-CBA-CGA-O2A
11	P2	202	CYC	CAA-CBA-CGA-O2A
11	T2	202	CYC	CAA-CBA-CGA-O2A
11	X2	202	CYC	CAA-CBA-CGA-O2A
11	Z2	203	CYC	CAA-CBA-CGA-O2A
11	Q3	1001	CYC	CAD-CBD-CGD-O2D
11	g3	1001	CYC	CAD-CBD-CGD-O2D
11	C4	201	CYC	CAA-CBA-CGA-O2A
11	E4	202	CYC	CAA-CBA-CGA-O2A
11	I4	202	CYC	CAA-CBA-CGA-O2A
11	K4	202	CYC	CAA-CBA-CGA-O2A
11	L4	202	CYC	CAA-CBA-CGA-O2A
11	P4	202	CYC	CAA-CBA-CGA-O2A
11	X4	202	CYC	CAA-CBA-CGA-O2A
11	G5	201	CYC	CAA-CBA-CGA-O2A
11	K5	201	CYC	CAA-CBA-CGA-O2A
11	V5	201	CYC	CAA-CBA-CGA-O2A
11	C6	202	CYC	CAA-CBA-CGA-O2A
11	E6	202	CYC	CAA-CBA-CGA-O2A
11	G6	201	CYC	CAA-CBA-CGA-O2A
11	I6	202	CYC	CAA-CBA-CGA-O2A
11	M6	202	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
11	P6	202	CYC	CAA-CBA-CGA-O2A
11	T6	201	CYC	CAA-CBA-CGA-O2A
11	X6	202	CYC	CAA-CBA-CGA-O2A
11	Z6	202	CYC	CAA-CBA-CGA-O2A
11	T7	1001	CYC	CAD-CBD-CGD-O1D
11	C8	201	CYC	CAA-CBA-CGA-O2A
11	E8	202	CYC	CAA-CBA-CGA-O2A
11	I8	202	CYC	CAA-CBA-CGA-O2A
11	L8	202	CYC	CAA-CBA-CGA-O2A
11	P8	202	CYC	CAA-CBA-CGA-O2A
11	T8	202	CYC	CAA-CBA-CGA-O2A
11	X8	202	CYC	CAA-CBA-CGA-O2A
11	Z8	202	CYC	CAA-CBA-CGA-O2A
11	V2	202	CYC	CAA-CBA-CGA-O2A
11	F4	201	CYC	CAA-CBA-CGA-O2A
11	T4	202	CYC	CAA-CBA-CGA-O2A
11	V4	202	CYC	CAA-CBA-CGA-O2A
11	V6	202	CYC	CAA-CBA-CGA-O2A
11	F8	201	CYC	CAA-CBA-CGA-O2A
11	V8	202	CYC	CAA-CBA-CGA-O2A
11	B2	201	CYC	CAD-CBD-CGD-O2D
11	E2	203	CYC	CAD-CBD-CGD-O2D
11	H2	201	CYC	CAD-CBD-CGD-O2D
11	I2	203	CYC	CAD-CBD-CGD-O2D
11	Q2	201	CYC	CAD-CBD-CGD-O2D
11	W2	201	CYC	CAD-CBD-CGD-O2D
11	X2	203	CYC	CAD-CBD-CGD-O2D
11	Z2	201	CYC	CAD-CBD-CGD-O2D
11	B6	201	CYC	CAD-CBD-CGD-O2D
11	H6	201	CYC	CAD-CBD-CGD-O2D
11	J6	201	CYC	CAD-CBD-CGD-O2D
11	Q6	201	CYC	CAD-CBD-CGD-O2D
11	U6	201	CYC	CAD-CBD-CGD-O2D
11	W6	201	CYC	CAD-CBD-CGD-O2D
11	D2	201	CYC	CAD-CBD-CGD-O2D
11	K2	203	CYC	CAD-CBD-CGD-O2D
11	S2	201	CYC	CAD-CBD-CGD-O2D
11	T2	201	CYC	CAD-CBD-CGD-O2D
11	C6	203	CYC	CAD-CBD-CGD-O2D
11	F6	201	CYC	CAD-CBD-CGD-O2D
11	L6	201	CYC	CAD-CBD-CGD-O2D
11	O6	201	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
11	R6	202	CYC	CAD-CBD-CGD-O2D
11	Y6	201	CYC	CAD-CBD-CGD-O2D
11	X7	1001	CYC	CAA-CBA-CGA-O2A
11	03	901	CYC	CAA-CBA-CGA-O1A
11	A7	1001	CYC	CAA-CBA-CGA-O2A
11	C7	1001	CYC	CAA-CBA-CGA-O2A
11	E7	1001	CYC	CAA-CBA-CGA-O2A
11	H7	1001	CYC	CAA-CBA-CGA-O2A
11	J7	1001	CYC	CAA-CBA-CGA-O2A
11	L7	1001	CYC	CAA-CBA-CGA-O2A
11	O7	1001	CYC	CAA-CBA-CGA-O2A
11	Q7	1001	CYC	CAA-CBA-CGA-O2A
11	V7	1001	CYC	CAA-CBA-CGA-O2A
11	Z7	1001	CYC	CAA-CBA-CGA-O2A
11	03	901	CYC	CAA-CBA-CGA-O2A
11	13	901	CYC	CAA-CBA-CGA-O1A
11	13	901	CYC	CAA-CBA-CGA-O2A
11	O4	201	CYC	CAA-CBA-CGA-O2A
11	S7	1001	CYC	CAA-CBA-CGA-O2A
11	S4	201	CYC	CAA-CBA-CGA-O2A
11	Y4	201	CYC	CAA-CBA-CGA-O2A
11	G2	201	CYC	CAA-CBA-CGA-O1A
11	K2	202	CYC	CAA-CBA-CGA-O1A
11	M2	202	CYC	CAA-CBA-CGA-O1A
11	R2	201	CYC	CAA-CBA-CGA-O1A
11	C4	201	CYC	CAA-CBA-CGA-O1A
11	F4	201	CYC	CAA-CBA-CGA-O1A
11	I4	202	CYC	CAA-CBA-CGA-O1A
11	K4	202	CYC	CAA-CBA-CGA-O1A
11	L4	202	CYC	CAA-CBA-CGA-O1A
11	G6	201	CYC	CAA-CBA-CGA-O1A
11	K6	202	CYC	CAA-CBA-CGA-O1A
11	M6	202	CYC	CAA-CBA-CGA-O1A
11	R6	201	CYC	CAA-CBA-CGA-O1A
11	C8	201	CYC	CAA-CBA-CGA-O1A
11	F8	201	CYC	CAA-CBA-CGA-O1A
11	K8	202	CYC	CAA-CBA-CGA-O1A
11	L8	202	CYC	CAA-CBA-CGA-O1A
11	C2	202	CYC	CAA-CBA-CGA-O1A
11	G3	1001	CYC	CAA-CBA-CGA-O2A
11	I3	1001	CYC	CAA-CBA-CGA-O2A
11	K3	1001	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
11	N3	1001	CYC	CAA-CBA-CGA-O2A
11	P3	1001	CYC	CAA-CBA-CGA-O2A
11	R3	1001	CYC	CAA-CBA-CGA-O2A
11	T3	1001	CYC	CAA-CBA-CGA-O2A
11	X3	1001	CYC	CAA-CBA-CGA-O2A
11	Z3	1001	CYC	CAA-CBA-CGA-O2A
11	b3	1001	CYC	CAA-CBA-CGA-O2A
11	d3	1001	CYC	CAA-CBA-CGA-O2A
11	f3	1001	CYC	CAA-CBA-CGA-O2A
11	i3	1001	CYC	CAA-CBA-CGA-O2A
11	k3	1001	CYC	CAA-CBA-CGA-O2A
11	o3	1001	CYC	CAA-CBA-CGA-O2A
11	q3	1001	CYC	CAA-CBA-CGA-O2A
11	s3	1001	CYC	CAA-CBA-CGA-O2A
11	u3	1001	CYC	CAA-CBA-CGA-O2A
11	w3	1001	CYC	CAA-CBA-CGA-O2A
11	y3	1001	CYC	CAA-CBA-CGA-O2A
11	G4	201	CYC	CAA-CBA-CGA-O2A
11	L4	201	CYC	CAA-CBA-CGA-O2A
11	P4	202	CYC	CAA-CBA-CGA-O1A
11	P4	203	CYC	CAA-CBA-CGA-O2A
11	W4	201	CYC	CAA-CBA-CGA-O2A
11	C6	202	CYC	CAA-CBA-CGA-O1A
11	L8	201	CYC	CAA-CBA-CGA-O2A
11	O8	201	CYC	CAA-CBA-CGA-O2A
11	U8	201	CYC	CAA-CBA-CGA-O2A
11	Y8	201	CYC	CAA-CBA-CGA-O2A
11	E2	202	CYC	CAA-CBA-CGA-O1A
11	I2	202	CYC	CAA-CBA-CGA-O1A
11	P2	202	CYC	CAA-CBA-CGA-O1A
11	T2	202	CYC	CAA-CBA-CGA-O1A
11	V2	202	CYC	CAA-CBA-CGA-O1A
11	X2	202	CYC	CAA-CBA-CGA-O1A
11	Z2	203	CYC	CAA-CBA-CGA-O1A
11	Q3	1001	CYC	CAA-CBA-CGA-O2A
11	g3	1001	CYC	CAA-CBA-CGA-O2A
11	D4	201	CYC	CAA-CBA-CGA-O2A
11	E4	202	CYC	CAA-CBA-CGA-O1A
11	E4	203	CYC	CAA-CBA-CGA-O2A
11	I4	203	CYC	CAA-CBA-CGA-O2A
11	M4	201	CYC	CAA-CBA-CGA-O2A
11	R4	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
11	U4	201	CYC	CAA-CBA-CGA-O2A
11	V4	202	CYC	CAA-CBA-CGA-O1A
11	X4	202	CYC	CAA-CBA-CGA-O1A
11	Z4	202	CYC	CAA-CBA-CGA-O1A
11	E6	202	CYC	CAA-CBA-CGA-O1A
11	I6	202	CYC	CAA-CBA-CGA-O1A
11	P6	202	CYC	CAA-CBA-CGA-O1A
11	T6	201	CYC	CAA-CBA-CGA-O1A
11	V6	202	CYC	CAA-CBA-CGA-O1A
11	X6	202	CYC	CAA-CBA-CGA-O1A
11	Z6	202	CYC	CAA-CBA-CGA-O1A
11	F7	1001	CYC	CAA-CBA-CGA-O2A
11	K7	1001	CYC	CAA-CBA-CGA-O2A
11	M7	1001	CYC	CAA-CBA-CGA-O2A
11	T7	1001	CYC	CAA-CBA-CGA-O2A
11	Y7	1001	CYC	CAA-CBA-CGA-O2A
11	D8	201	CYC	CAA-CBA-CGA-O2A
11	E8	202	CYC	CAA-CBA-CGA-O1A
11	E8	203	CYC	CAA-CBA-CGA-O2A
11	G8	201	CYC	CAA-CBA-CGA-O2A
11	I8	202	CYC	CAA-CBA-CGA-O1A
11	I8	203	CYC	CAA-CBA-CGA-O2A
11	M8	201	CYC	CAA-CBA-CGA-O2A
11	P8	202	CYC	CAA-CBA-CGA-O1A
11	P8	203	CYC	CAA-CBA-CGA-O2A
11	R8	201	CYC	CAA-CBA-CGA-O1A
11	S8	201	CYC	CAA-CBA-CGA-O2A
11	V8	202	CYC	CAA-CBA-CGA-O1A
11	W8	201	CYC	CAA-CBA-CGA-O2A
11	Z8	202	CYC	CAA-CBA-CGA-O1A
11	g3	1001	CYC	CAA-CBA-CGA-O1A
11	T4	202	CYC	CAA-CBA-CGA-O1A
11	B7	1001	CYC	CAA-CBA-CGA-O2A
11	D7	1001	CYC	CAA-CBA-CGA-O2A
11	I7	1001	CYC	CAA-CBA-CGA-O2A
11	P7	1001	CYC	CAA-CBA-CGA-O2A
11	R7	1001	CYC	CAA-CBA-CGA-O2A
11	W7	1001	CYC	CAA-CBA-CGA-O2A
11	a7	1001	CYC	CAA-CBA-CGA-O2A
11	X8	202	CYC	CAA-CBA-CGA-O1A
11	Q3	1001	CYC	CAA-CBA-CGA-O1A
11	T8	202	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
11	E4	201	CYC	CAA-CBA-CGA-O2A
11	G4	202	CYC	CAA-CBA-CGA-O2A
11	M4	202	CYC	CAA-CBA-CGA-O2A
11	V4	201	CYC	CAA-CBA-CGA-O2A
11	X4	201	CYC	CAA-CBA-CGA-O2A
11	I7	1001	CYC	CAA-CBA-CGA-O1A
11	K7	1001	CYC	CAA-CBA-CGA-O1A
11	M7	1001	CYC	CAA-CBA-CGA-O1A
11	P7	1001	CYC	CAA-CBA-CGA-O1A
11	R7	1001	CYC	CAA-CBA-CGA-O1A
11	a7	1001	CYC	CAA-CBA-CGA-O1A
11	E8	201	CYC	CAA-CBA-CGA-O2A
11	G8	202	CYC	CAA-CBA-CGA-O2A
11	M8	202	CYC	CAA-CBA-CGA-O2A
11	T8	201	CYC	CAA-CBA-CGA-O2A
11	V8	201	CYC	CAA-CBA-CGA-O2A
11	X8	201	CYC	CAA-CBA-CGA-O2A
11	V2	202	CYC	CAD-CBD-CGD-O2D
11	G3	1001	CYC	CAA-CBA-CGA-O1A
11	I3	1001	CYC	CAA-CBA-CGA-O1A
11	K3	1001	CYC	CAA-CBA-CGA-O1A
11	N3	1001	CYC	CAA-CBA-CGA-O1A
11	P3	1001	CYC	CAA-CBA-CGA-O1A
11	R3	1001	CYC	CAA-CBA-CGA-O1A
11	T3	1001	CYC	CAA-CBA-CGA-O1A
11	X3	1001	CYC	CAA-CBA-CGA-O1A
11	Z3	1001	CYC	CAA-CBA-CGA-O1A
11	b3	1001	CYC	CAA-CBA-CGA-O1A
11	d3	1001	CYC	CAA-CBA-CGA-O1A
11	f3	1001	CYC	CAA-CBA-CGA-O1A
11	i3	1001	CYC	CAA-CBA-CGA-O1A
11	k3	1001	CYC	CAA-CBA-CGA-O1A
11	o3	1001	CYC	CAA-CBA-CGA-O1A
11	q3	1001	CYC	CAA-CBA-CGA-O1A
11	s3	1001	CYC	CAA-CBA-CGA-O1A
11	u3	1001	CYC	CAA-CBA-CGA-O1A
11	w3	1001	CYC	CAA-CBA-CGA-O1A
11	y3	1001	CYC	CAA-CBA-CGA-O1A
11	I4	201	CYC	CAA-CBA-CGA-O2A
11	K4	201	CYC	CAA-CBA-CGA-O1A
11	N4	301	CYC	CAA-CBA-CGA-O1A
11	N4	301	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
11	P4	201	CYC	CAA-CBA-CGA-O2A
11	T4	201	CYC	CAA-CBA-CGA-O2A
11	X4	201	CYC	CAA-CBA-CGA-O1A
11	Z4	201	CYC	CAA-CBA-CGA-O1A
11	Z4	201	CYC	CAA-CBA-CGA-O2A
11	V6	202	CYC	CAD-CBD-CGD-O2D
11	B7	1001	CYC	CAA-CBA-CGA-O1A
11	D7	1001	CYC	CAA-CBA-CGA-O1A
11	F7	1001	CYC	CAA-CBA-CGA-O1A
11	T7	1001	CYC	CAA-CBA-CGA-O1A
11	W7	1001	CYC	CAA-CBA-CGA-O1A
11	Y7	1001	CYC	CAA-CBA-CGA-O1A
11	A8	301	CYC	CAA-CBA-CGA-O1A
11	E8	201	CYC	CAA-CBA-CGA-O1A
11	G8	202	CYC	CAA-CBA-CGA-O1A
11	I8	201	CYC	CAA-CBA-CGA-O1A
11	I8	201	CYC	CAA-CBA-CGA-O2A
11	K8	201	CYC	CAA-CBA-CGA-O1A
11	K8	201	CYC	CAA-CBA-CGA-O2A
11	M8	202	CYC	CAA-CBA-CGA-O1A
11	N8	301	CYC	CAA-CBA-CGA-O1A
11	N8	301	CYC	CAA-CBA-CGA-O2A
11	P8	201	CYC	CAA-CBA-CGA-O2A
11	P8	202	CYC	CAD-CBD-CGD-O2D
11	T8	201	CYC	CAA-CBA-CGA-O1A
11	Z8	201	CYC	CAA-CBA-CGA-O1A
11	Z8	201	CYC	CAA-CBA-CGA-O2A
11	A4	301	CYC	CAA-CBA-CGA-O2A
11	E4	201	CYC	CAA-CBA-CGA-O1A
11	I4	201	CYC	CAA-CBA-CGA-O1A
11	K4	201	CYC	CAA-CBA-CGA-O2A
11	T4	201	CYC	CAA-CBA-CGA-O1A
11	V4	201	CYC	CAA-CBA-CGA-O1A
11	A8	301	CYC	CAA-CBA-CGA-O2A
11	P8	201	CYC	CAA-CBA-CGA-O1A
11	G2	201	CYC	CAD-CBD-CGD-O2D
11	I2	202	CYC	CAD-CBD-CGD-O2D
11	P2	202	CYC	CAD-CBD-CGD-O2D
11	T2	202	CYC	CAD-CBD-CGD-O2D
11	X2	202	CYC	CAD-CBD-CGD-O2D
11	A4	301	CYC	CAA-CBA-CGA-O1A
11	F4	201	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
11	G4	202	CYC	CAA-CBA-CGA-O1A
11	I4	202	CYC	CAD-CBD-CGD-O2D
11	K4	202	CYC	CAD-CBD-CGD-O2D
11	L4	202	CYC	CAD-CBD-CGD-O2D
11	M4	202	CYC	CAA-CBA-CGA-O1A
11	P4	201	CYC	CAA-CBA-CGA-O1A
11	P4	202	CYC	CAD-CBD-CGD-O2D
11	T4	202	CYC	CAD-CBD-CGD-O1D
11	V4	202	CYC	CAD-CBD-CGD-O2D
11	X4	202	CYC	CAD-CBD-CGD-O2D
11	E6	202	CYC	CAD-CBD-CGD-O2D
11	G6	201	CYC	CAD-CBD-CGD-O2D
11	I6	202	CYC	CAD-CBD-CGD-O2D
11	K6	202	CYC	CAD-CBD-CGD-O2D
11	M6	202	CYC	CAD-CBD-CGD-O2D
11	P6	202	CYC	CAD-CBD-CGD-O2D
11	T6	201	CYC	CAD-CBD-CGD-O2D
11	X6	202	CYC	CAD-CBD-CGD-O2D
11	A7	1001	CYC	CAA-CBA-CGA-O1A
11	C7	1001	CYC	CAA-CBA-CGA-O1A
11	E7	1001	CYC	CAA-CBA-CGA-O1A
11	H7	1001	CYC	CAA-CBA-CGA-O1A
11	J7	1001	CYC	CAA-CBA-CGA-O1A
11	L7	1001	CYC	CAA-CBA-CGA-O1A
11	O7	1001	CYC	CAA-CBA-CGA-O1A
11	Q7	1001	CYC	CAA-CBA-CGA-O1A
11	S7	1001	CYC	CAA-CBA-CGA-O1A
11	V7	1001	CYC	CAA-CBA-CGA-O1A
11	X7	1001	CYC	CAA-CBA-CGA-O1A
11	Z7	1001	CYC	CAA-CBA-CGA-O1A
11	F8	201	CYC	CAD-CBD-CGD-O2D
11	I8	202	CYC	CAD-CBD-CGD-O2D
11	K8	202	CYC	CAD-CBD-CGD-O2D
11	T8	202	CYC	CAD-CBD-CGD-O2D
11	V8	201	CYC	CAA-CBA-CGA-O1A
11	V8	202	CYC	CAD-CBD-CGD-O2D
11	X8	201	CYC	CAA-CBA-CGA-O1A
11	X8	202	CYC	CAD-CBD-CGD-O2D
11	C2	202	CYC	CAD-CBD-CGD-O1D
11	C2	202	CYC	CAD-CBD-CGD-O2D
11	E2	202	CYC	CAD-CBD-CGD-O1D
11	E2	202	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
11	G2	201	CYC	CAD-CBD-CGD-O1D
11	I2	202	CYC	CAD-CBD-CGD-O1D
11	K2	202	CYC	CAD-CBD-CGD-O1D
11	K2	202	CYC	CAD-CBD-CGD-O2D
11	M2	202	CYC	CAD-CBD-CGD-O1D
11	M2	202	CYC	CAD-CBD-CGD-O2D
11	P2	202	CYC	CAD-CBD-CGD-O1D
11	R2	201	CYC	CAD-CBD-CGD-O1D
11	R2	201	CYC	CAD-CBD-CGD-O2D
11	T2	202	CYC	CAD-CBD-CGD-O1D
11	V2	202	CYC	CAD-CBD-CGD-O1D
11	X2	202	CYC	CAD-CBD-CGD-O1D
11	Z2	203	CYC	CAD-CBD-CGD-O1D
11	Z2	203	CYC	CAD-CBD-CGD-O2D
11	C4	201	CYC	CAD-CBD-CGD-O1D
11	C4	201	CYC	CAD-CBD-CGD-O2D
11	D4	201	CYC	CAA-CBA-CGA-O1A
11	E4	202	CYC	CAD-CBD-CGD-O1D
11	E4	202	CYC	CAD-CBD-CGD-O2D
11	F4	201	CYC	CAD-CBD-CGD-O1D
11	G4	201	CYC	CAA-CBA-CGA-O1A
11	I4	202	CYC	CAD-CBD-CGD-O1D
11	I4	203	CYC	CAA-CBA-CGA-O1A
11	K4	202	CYC	CAD-CBD-CGD-O1D
11	L4	201	CYC	CAA-CBA-CGA-O1A
11	L4	202	CYC	CAD-CBD-CGD-O1D
11	M4	201	CYC	CAA-CBA-CGA-O1A
11	O4	201	CYC	CAA-CBA-CGA-O1A
11	P4	202	CYC	CAD-CBD-CGD-O1D
11	P4	203	CYC	CAA-CBA-CGA-O1A
11	R4	201	CYC	CAD-CBD-CGD-O1D
11	R4	201	CYC	CAD-CBD-CGD-O2D
11	S4	201	CYC	CAA-CBA-CGA-O1A
11	T4	202	CYC	CAD-CBD-CGD-O2D
11	U4	201	CYC	CAA-CBA-CGA-O1A
11	V4	202	CYC	CAD-CBD-CGD-O1D
11	W4	201	CYC	CAA-CBA-CGA-O1A
11	X4	202	CYC	CAD-CBD-CGD-O1D
11	Y4	201	CYC	CAA-CBA-CGA-O1A
11	Z4	202	CYC	CAD-CBD-CGD-O1D
11	Z4	202	CYC	CAD-CBD-CGD-O2D
11	C6	202	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
11	C6	202	CYC	CAD-CBD-CGD-O2D
11	E6	202	CYC	CAD-CBD-CGD-O1D
11	G6	201	CYC	CAD-CBD-CGD-O1D
11	I6	202	CYC	CAD-CBD-CGD-O1D
11	K6	202	CYC	CAD-CBD-CGD-O1D
11	M6	202	CYC	CAD-CBD-CGD-O1D
11	P6	202	CYC	CAD-CBD-CGD-O1D
11	R6	201	CYC	CAD-CBD-CGD-O1D
11	R6	201	CYC	CAD-CBD-CGD-O2D
11	T6	201	CYC	CAD-CBD-CGD-O1D
11	V6	202	CYC	CAD-CBD-CGD-O1D
11	X6	202	CYC	CAD-CBD-CGD-O1D
11	Z6	202	CYC	CAD-CBD-CGD-O1D
11	Z6	202	CYC	CAD-CBD-CGD-O2D
11	C8	201	CYC	CAD-CBD-CGD-O1D
11	C8	201	CYC	CAD-CBD-CGD-O2D
11	D8	201	CYC	CAA-CBA-CGA-O1A
11	E8	202	CYC	CAD-CBD-CGD-O1D
11	E8	202	CYC	CAD-CBD-CGD-O2D
11	E8	203	CYC	CAA-CBA-CGA-O1A
11	F8	201	CYC	CAD-CBD-CGD-O1D
11	G8	201	CYC	CAA-CBA-CGA-O1A
11	I8	202	CYC	CAD-CBD-CGD-O1D
11	I8	203	CYC	CAA-CBA-CGA-O1A
11	K8	202	CYC	CAD-CBD-CGD-O1D
11	L8	201	CYC	CAA-CBA-CGA-O1A
11	L8	202	CYC	CAD-CBD-CGD-O1D
11	L8	202	CYC	CAD-CBD-CGD-O2D
11	M8	201	CYC	CAA-CBA-CGA-O1A
11	O8	201	CYC	CAA-CBA-CGA-O1A
11	P8	202	CYC	CAD-CBD-CGD-O1D
11	P8	203	CYC	CAA-CBA-CGA-O1A
11	R8	201	CYC	CAD-CBD-CGD-O1D
11	R8	201	CYC	CAD-CBD-CGD-O2D
11	S8	201	CYC	CAA-CBA-CGA-O1A
11	T8	202	CYC	CAD-CBD-CGD-O1D
11	U8	201	CYC	CAA-CBA-CGA-O1A
11	V8	202	CYC	CAD-CBD-CGD-O1D
11	W8	201	CYC	CAA-CBA-CGA-O1A
11	X8	202	CYC	CAD-CBD-CGD-O1D
11	Y8	201	CYC	CAA-CBA-CGA-O1A
11	Z8	202	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
11	Z8	202	CYC	CAD-CBD-CGD-O2D
11	E4	203	CYC	CAA-CBA-CGA-O1A
11	J5	201	CYC	CAD-CBD-CGD-O2D
11	B1	201	CYC	CAD-CBD-CGD-O2D
11	J1	201	CYC	CAD-CBD-CGD-O2D
11	L1	201	CYC	CAD-CBD-CGD-O2D
11	O1	201	CYC	CAD-CBD-CGD-O2D
11	Q1	201	CYC	CAD-CBD-CGD-O2D
11	S1	201	CYC	CAD-CBD-CGD-O2D
11	U1	201	CYC	CAD-CBD-CGD-O2D
11	V1	202	CYC	CAD-CBD-CGD-O2D
11	X1	203	CYC	CAD-CBD-CGD-O2D
11	F5	201	CYC	CAD-CBD-CGD-O2D
11	H5	201	CYC	CAD-CBD-CGD-O2D
11	L5	201	CYC	CAD-CBD-CGD-O2D
11	O5	201	CYC	CAD-CBD-CGD-O2D
11	U5	201	CYC	CAD-CBD-CGD-O2D
11	V5	202	CYC	CAD-CBD-CGD-O2D
11	X5	203	CYC	CAD-CBD-CGD-O2D
11	C1	202	CYC	CAD-CBD-CGD-O2D
11	F1	201	CYC	CAD-CBD-CGD-O2D
11	H1	201	CYC	CAD-CBD-CGD-O2D
11	B5	201	CYC	CAD-CBD-CGD-O2D
11	C5	202	CYC	CAD-CBD-CGD-O2D
11	Q5	201	CYC	CAD-CBD-CGD-O2D
11	S5	201	CYC	CAD-CBD-CGD-O2D

There are no ring outliers.

286 monomers are involved in 7134 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	A6	301	CYC	13	0
11	C5	201	CYC	31	0
11	E6	202	CYC	32	0
11	E2	201	CYC	13	0
11	Z6	202	CYC	32	0
11	K7	1001	CYC	19	0
11	S7	1001	CYC	15	0
11	I1	202	CYC	33	0
11	K4	201	CYC	20	0
11	I5	202	CYC	29	0
11	Z5	201	CYC	18	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	P4	202	CYC	43	0
11	J6	201	CYC	30	0
11	N5	301	CYC	18	0
11	Y7	1001	CYC	20	0
11	M2	201	CYC	13	0
11	U3	1001	CYC	10	0
11	K6	201	CYC	13	0
11	n3	1001	CYC	12	0
11	A1	301	CYC	19	0
11	M1	202	CYC	30	0
11	Z2	201	CYC	32	0
11	F6	201	CYC	25	0
11	G1	201	CYC	21	0
11	W2	201	CYC	26	0
11	13	904	CYC	9	0
11	N8	301	CYC	21	0
11	P7	1001	CYC	20	0
11	I4	203	CYC	24	0
11	T5	201	CYC	31	0
11	J3	201	CYC	11	0
11	G8	202	CYC	20	0
11	I6	202	CYC	26	0
11	K2	203	CYC	33	0
11	R1	201	CYC	19	0
11	P8	203	CYC	25	0
11	K2	201	CYC	12	0
11	d3	1001	CYC	13	0
11	T2	201	CYC	28	0
11	V6	202	CYC	34	0
11	F8	201	CYC	46	0
11	R7	1001	CYC	18	0
11	H5	201	CYC	46	0
11	R6	201	CYC	36	0
11	x3	1001	CYC	10	0
11	U1	201	CYC	45	0
11	q3	1001	CYC	10	0
11	N2	302	CYC	12	0
11	I8	202	CYC	33	0
11	V8	202	CYC	51	0
11	M6	202	CYC	31	0
11	R1	202	CYC	30	0
11	e3	1001	CYC	9	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	C1	201	CYC	30	0
11	E4	201	CYC	20	0
11	A8	301	CYC	21	0
11	P8	202	CYC	42	0
11	D5	201	CYC	29	0
11	G4	201	CYC	26	0
11	K1	202	CYC	25	0
11	X6	201	CYC	13	0
11	E6	201	CYC	14	0
11	C2	202	CYC	43	0
11	L4	202	CYC	27	0
11	I2	203	CYC	29	0
11	Q6	201	CYC	26	0
11	M2	202	CYC	31	0
11	V8	201	CYC	20	0
11	N4	301	CYC	21	0
11	V4	202	CYC	52	0
11	I7	1001	CYC	28	0
11	X1	201	CYC	19	0
11	K5	201	CYC	18	0
11	C5	202	CYC	47	0
11	H6	201	CYC	25	0
11	P6	201	CYC	13	0
11	T1	201	CYC	31	0
11	P3	1001	CYC	11	0
11	m3	201	CYC	6	0
11	B1	201	CYC	49	0
11	13	902	CYC	23	0
11	a7	1001	CYC	20	0
11	r3	1001	CYC	12	0
11	03	902	CYC	13	0
11	j3	1001	CYC	10	0
11	u3	1001	CYC	11	0
11	K2	202	CYC	49	0
11	B2	201	CYC	25	0
11	I4	202	CYC	33	0
11	Z5	202	CYC	22	0
11	A5	301	CYC	20	0
11	E2	203	CYC	32	0
11	H3	1001	CYC	12	0
11	X8	201	CYC	20	0
11	G6	201	CYC	31	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	P2	202	CYC	46	0
11	R5	202	CYC	29	0
11	k3	1001	CYC	11	0
11	l3	1001	CYC	9	0
11	Y8	201	CYC	27	0
11	i3	1001	CYC	11	0
11	G4	202	CYC	19	0
11	V5	201	CYC	19	0
11	E8	203	CYC	28	0
11	Q1	201	CYC	42	0
11	T4	201	CYC	19	0
11	O4	201	CYC	29	0
11	X4	202	CYC	35	0
11	Z7	1001	CYC	14	0
11	O1	201	CYC	44	0
11	E7	1001	CYC	14	0
11	L7	1001	CYC	15	0
11	K8	201	CYC	20	0
11	X8	202	CYC	35	0
11	C6	203	CYC	34	0
11	X2	203	CYC	26	0
11	M7	1001	CYC	19	0
11	w3	1001	CYC	10	0
11	T2	202	CYC	40	0
11	t3	1001	CYC	13	0
11	P4	201	CYC	20	0
11	B7	1001	CYC	29	0
11	J1	201	CYC	44	0
11	L8	201	CYC	30	0
11	C4	201	CYC	41	0
11	R6	202	CYC	30	0
11	W3	1001	CYC	12	0
11	T4	202	CYC	37	0
11	P2	201	CYC	12	0
11	P4	203	CYC	27	0
11	Y6	201	CYC	25	0
11	K8	202	CYC	41	0
11	A2	301	CYC	12	0
11	z3	1001	CYC	12	0
11	V3	201	CYC	8	0
11	K6	202	CYC	50	0
11	A7	1001	CYC	18	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	A5	302	CYC	17	0
11	B6	201	CYC	28	0
11	I6	201	CYC	16	0
11	D2	201	CYC	26	0
11	C7	1001	CYC	15	0
11	G1	202	CYC	31	0
11	L4	201	CYC	33	0
11	V6	201	CYC	7	0
11	U5	202	CYC	29	0
11	T7	1001	CYC	19	0
11	M3	201	CYC	14	0
11	G5	202	CYC	34	0
11	R3	1001	CYC	12	0
11	o3	1001	CYC	6	0
11	L5	201	CYC	48	0
11	N1	301	CYC	18	0
11	S2	201	CYC	24	0
11	13	901	CYC	1	0
11	y3	1001	CYC	12	0
11	R8	201	CYC	35	0
11	J5	201	CYC	46	0
11	Z1	202	CYC	24	0
11	V1	201	CYC	20	0
11	I3	1001	CYC	10	0
11	R4	201	CYC	35	0
11	P6	202	CYC	35	0
11	Q7	1001	CYC	14	0
11	S3	1001	CYC	11	0
11	I4	201	CYC	22	0
11	S4	201	CYC	26	0
11	I8	203	CYC	25	0
11	F1	201	CYC	47	0
11	U6	201	CYC	33	0
11	M8	202	CYC	18	0
11	M6	201	CYC	13	0
11	P1	201	CYC	20	0
11	N6	301	CYC	13	0
11	P8	201	CYC	20	0
11	N2	301	CYC	14	0
11	C6	202	CYC	47	0
11	T8	202	CYC	37	0
11	s3	1001	CYC	13	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	K1	201	CYC	18	0
11	V2	201	CYC	8	0
11	Z2	203	CYC	32	0
11	Z3	1001	CYC	10	0
11	H1	201	CYC	47	0
11	T8	201	CYC	18	0
11	v3	1001	CYC	10	0
11	S8	201	CYC	26	0
11	O5	201	CYC	47	0
11	M4	202	CYC	18	0
11	P5	201	CYC	19	0
11	X2	202	CYC	52	0
11	Z6	201	CYC	13	0
11	b3	1001	CYC	10	0
11	Z8	202	CYC	33	0
11	B5	201	CYC	47	0
11	P1	202	CYC	30	0
11	O7	1001	CYC	17	0
11	E2	202	CYC	31	0
11	I8	201	CYC	22	0
11	I5	201	CYC	20	0
11	U8	201	CYC	29	0
11	X1	202	CYC	23	0
11	N3	1001	CYC	11	0
11	T6	201	CYC	39	0
11	D1	201	CYC	29	0
11	M8	201	CYC	29	0
11	N6	302	CYC	11	0
11	F7	1001	CYC	23	0
11	13	903	CYC	14	0
11	U5	201	CYC	42	0
11	C1	202	CYC	49	0
11	I2	201	CYC	17	0
11	M4	201	CYC	28	0
11	X3	1001	CYC	10	0
11	X2	201	CYC	13	0
11	Z1	201	CYC	18	0
11	M5	202	CYC	27	0
11	X7	1001	CYC	18	0
11	S1	201	CYC	46	0
11	U1	202	CYC	28	0
11	M1	201	CYC	19	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	F4	201	CYC	54	0
11	L1	201	CYC	47	0
11	X1	203	CYC	50	0
11	E8	202	CYC	42	0
11	f3	1001	CYC	11	0
11	Y4	201	CYC	27	0
11	V4	201	CYC	20	0
11	A1	302	CYC	18	0
11	G5	201	CYC	20	0
11	Z4	202	CYC	31	0
11	D7	1001	CYC	20	0
11	V1	202	CYC	46	0
11	P5	202	CYC	29	0
11	c3	1001	CYC	10	0
11	Q2	201	CYC	26	0
11	W6	201	CYC	27	0
11	E4	203	CYC	29	0
11	R5	201	CYC	19	0
11	K4	202	CYC	41	0
11	H7	1001	CYC	16	0
11	p3	1001	CYC	10	0
11	X5	202	CYC	25	0
11	W4	201	CYC	31	0
11	K3	1001	CYC	10	0
11	V7	1001	CYC	17	0
11	W7	1001	CYC	18	0
11	I1	201	CYC	20	0
11	C8	201	CYC	40	0
11	Q5	201	CYC	43	0
11	X5	201	CYC	18	0
11	C2	201	CYC	13	0
11	V5	202	CYC	48	0
11	O6	201	CYC	25	0
11	D8	201	CYC	26	0
11	Z8	201	CYC	20	0
11	O8	201	CYC	28	0
11	W8	201	CYC	30	0
11	M5	201	CYC	19	0
11	Z2	202	CYC	12	0
11	X5	203	CYC	51	0
11	T3	1001	CYC	10	0
11	E4	202	CYC	45	0

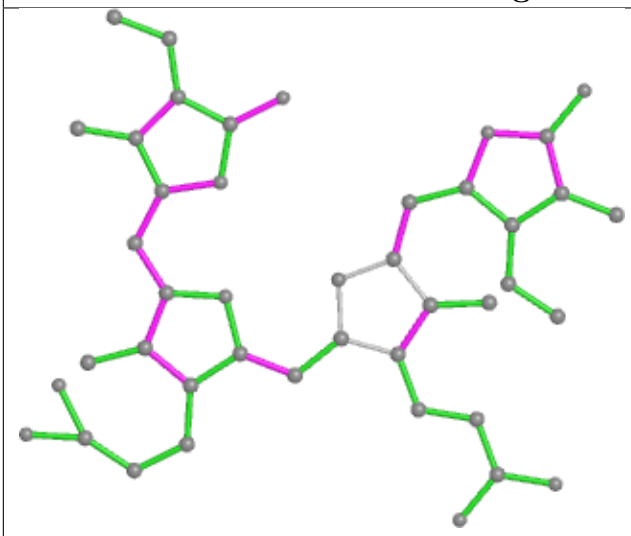
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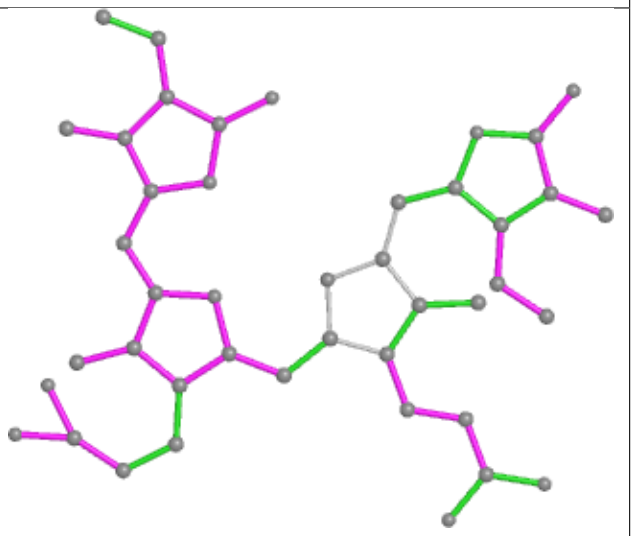
Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	X6	202	CYC	52	0
11	F5	201	CYC	47	0
11	A4	301	CYC	21	0
11	G8	201	CYC	26	0
11	J7	1001	CYC	16	0
11	O3	1001	CYC	11	0
11	G3	1001	CYC	10	0
11	D4	201	CYC	26	0
11	X4	201	CYC	20	0
11	C6	201	CYC	14	0
11	G2	201	CYC	31	0
11	S5	201	CYC	46	0
11	03	901	CYC	1	0
11	U4	201	CYC	29	0
11	K5	202	CYC	29	0
11	E8	201	CYC	20	0
11	Z4	201	CYC	20	0
11	L8	202	CYC	28	0
11	V2	202	CYC	33	0
11	I2	202	CYC	26	0
11	R2	201	CYC	36	0
11	H2	201	CYC	25	0
11	L6	201	CYC	31	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.

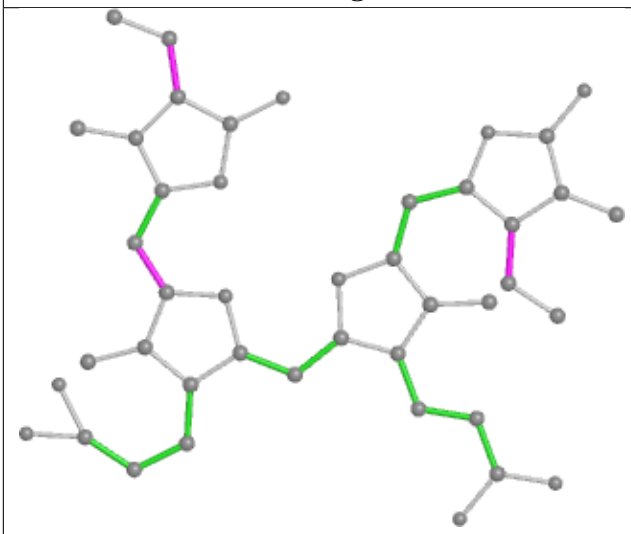
Ligand CYC A6 301



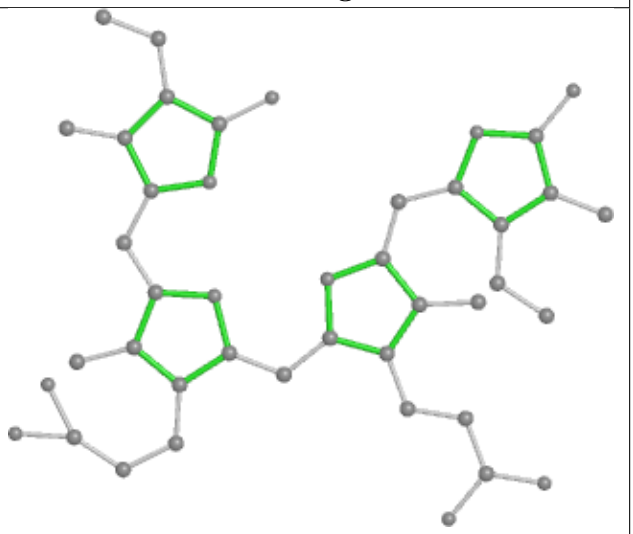
Bond lengths



Bond angles

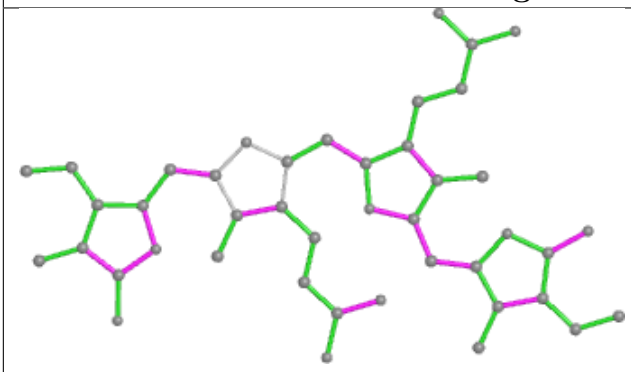


Torsions

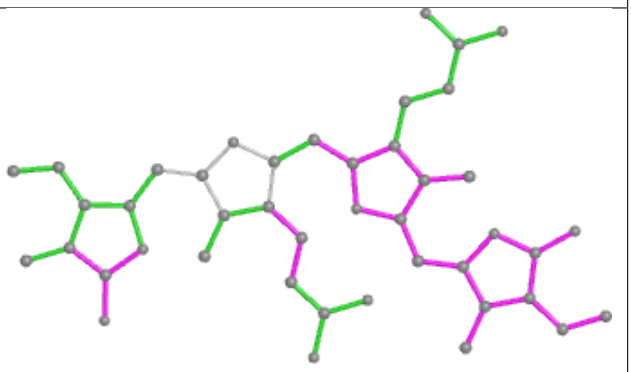


Rings

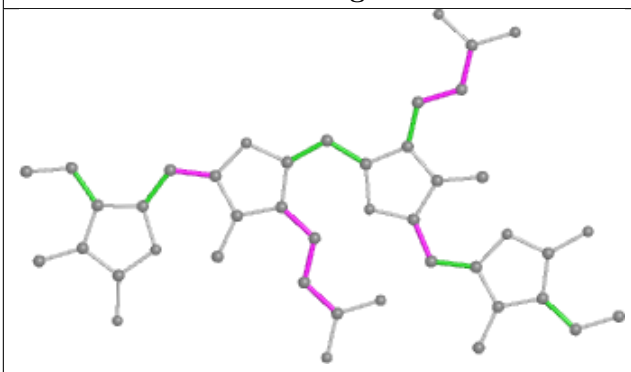
Ligand CYC C5 201



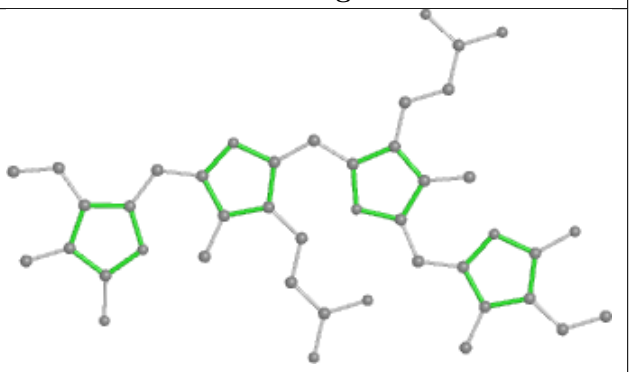
Bond lengths



Bond angles

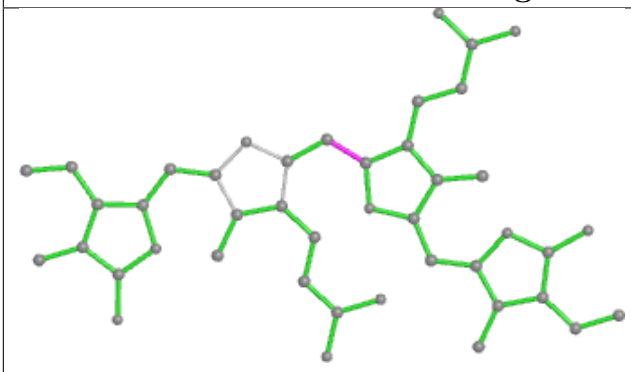


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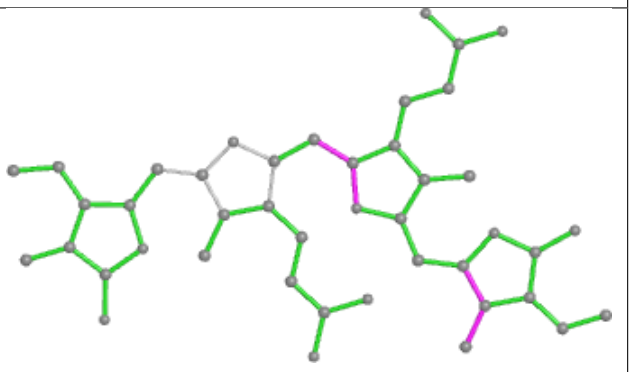


Rings

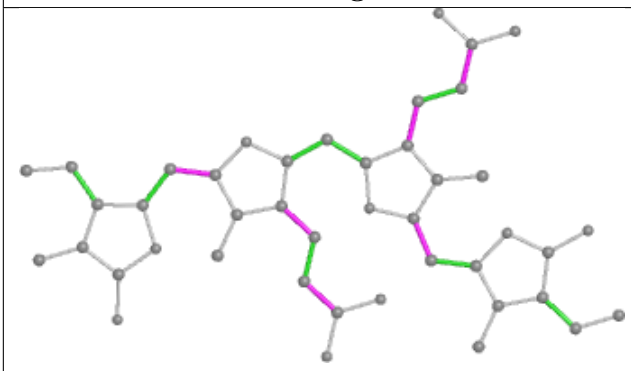
Ligand CYC E6 202



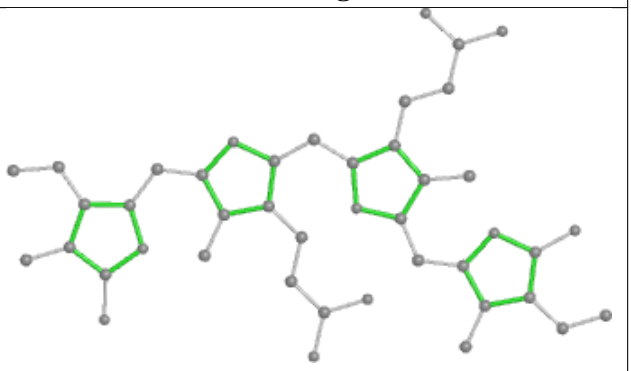
Bond lengths



Bond angles

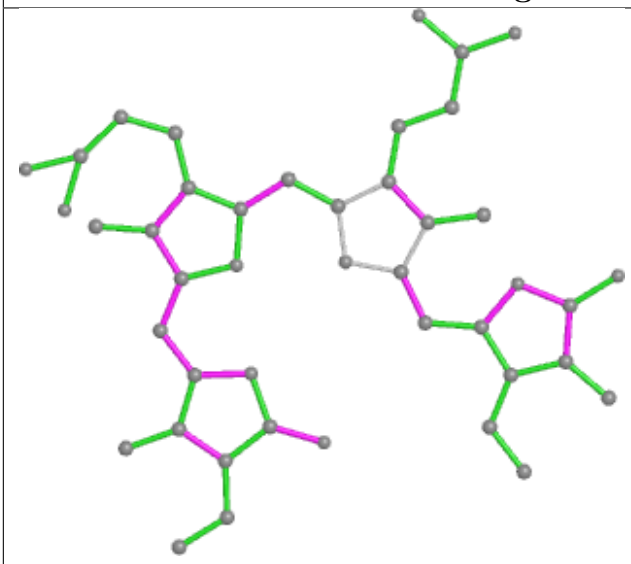


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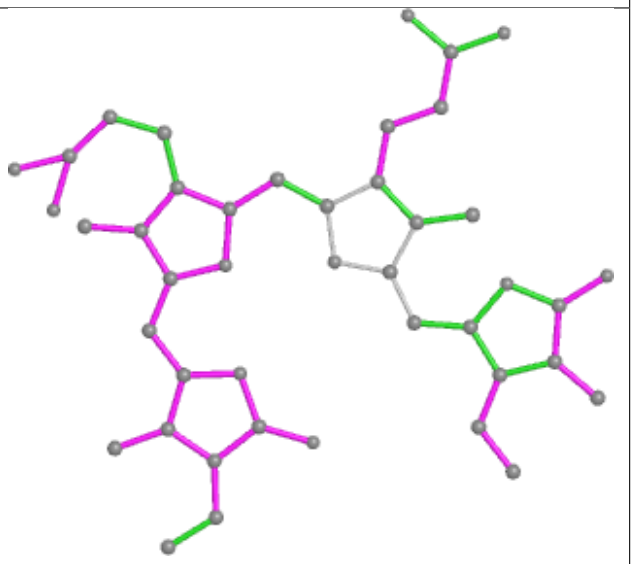


Rings

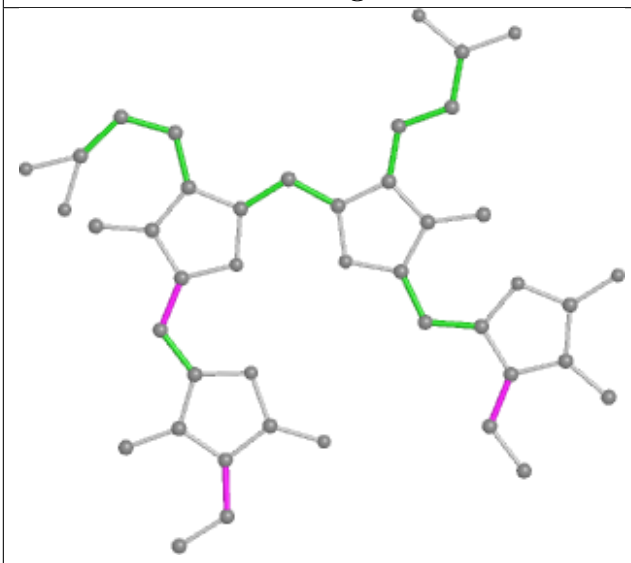
Ligand CYC E2 201



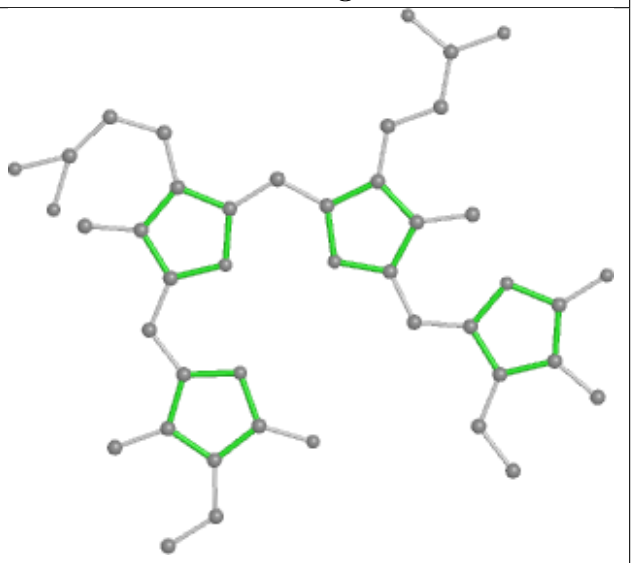
Bond lengths



Bond angles

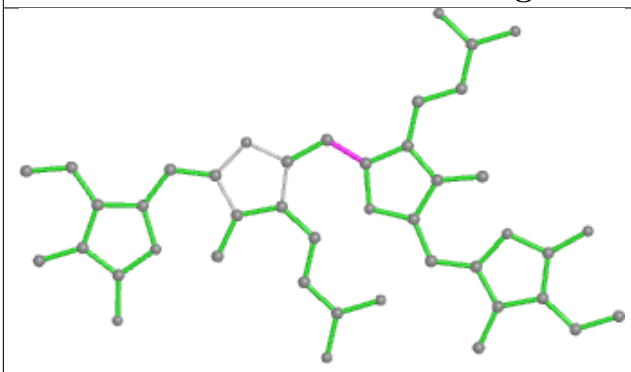


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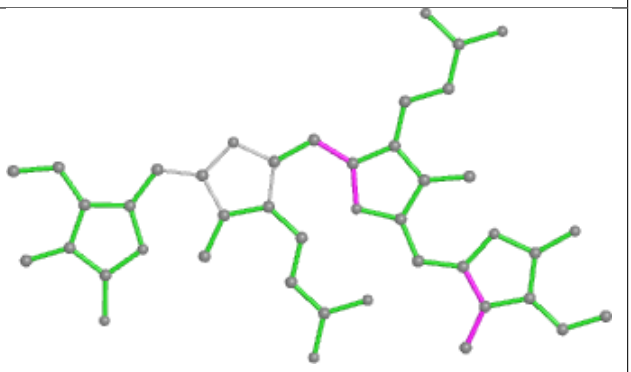


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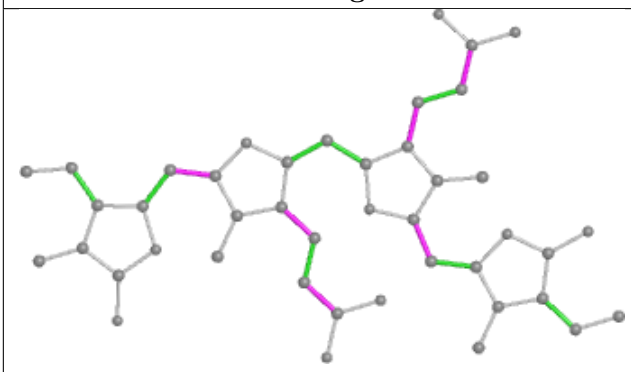
Ligand CYC Z6 202



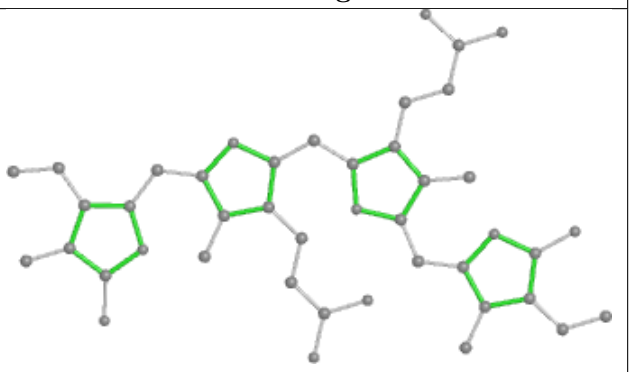
Bond lengths



Bond angles

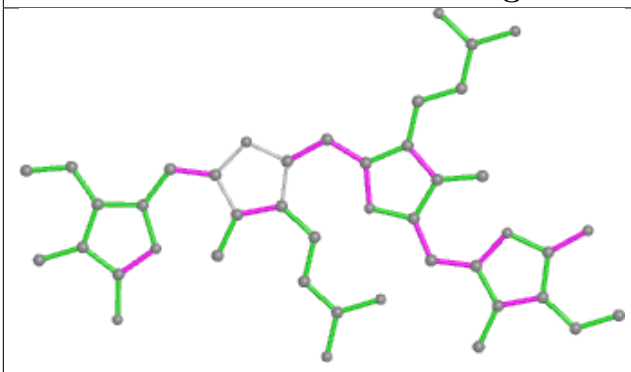


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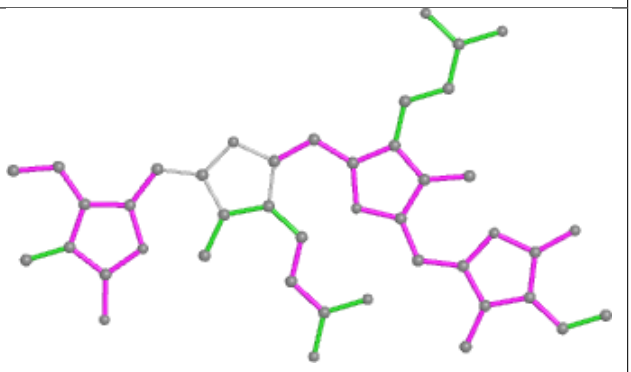


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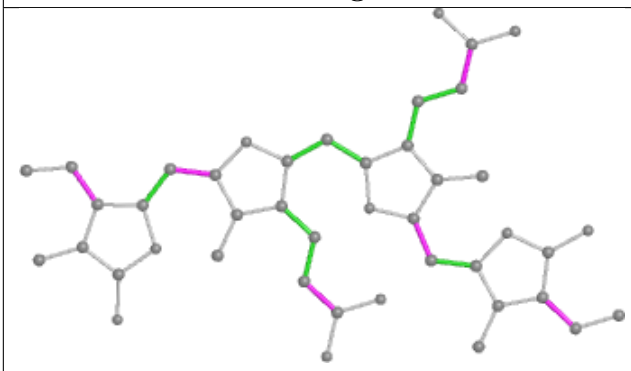
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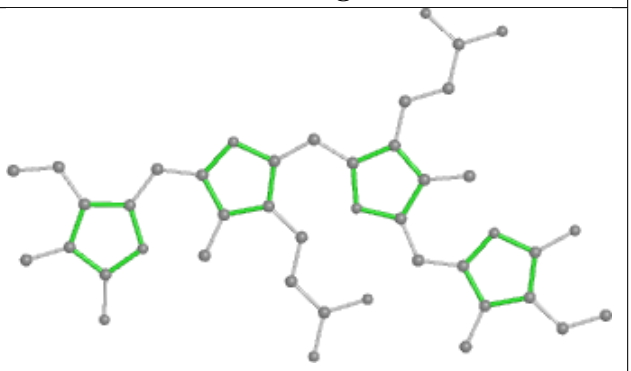
Bond lengths



Bond angles

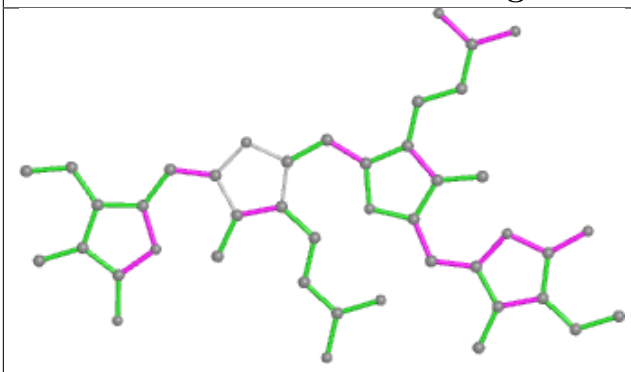


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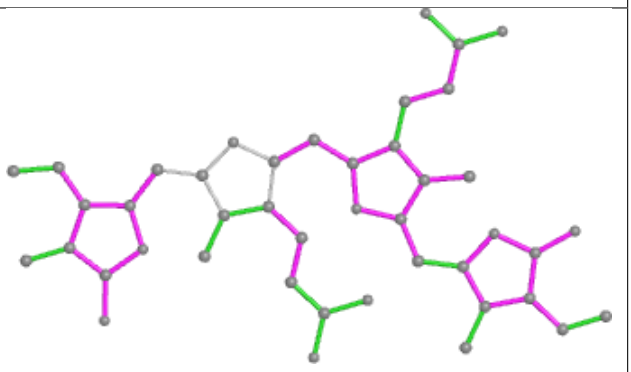


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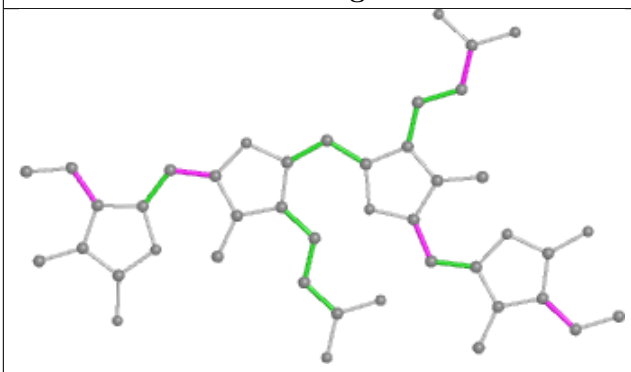
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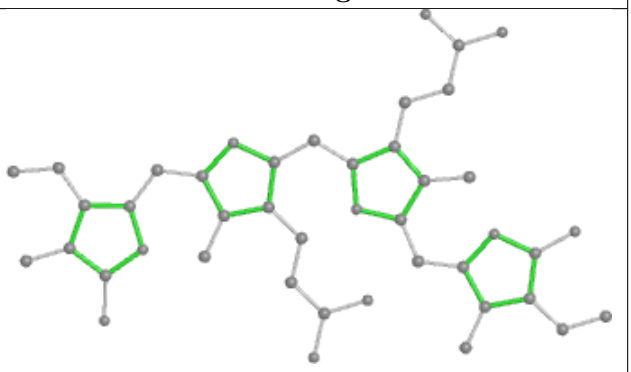
Bond lengths



Bond angles

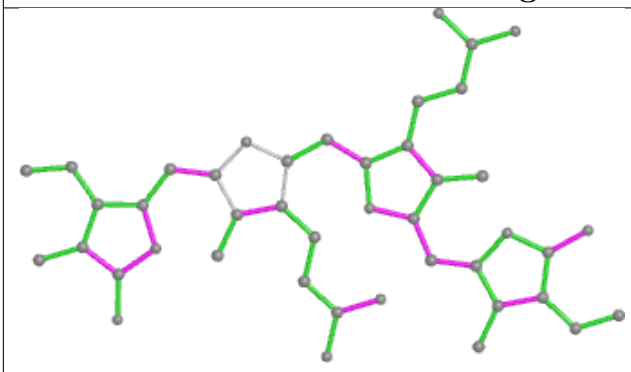


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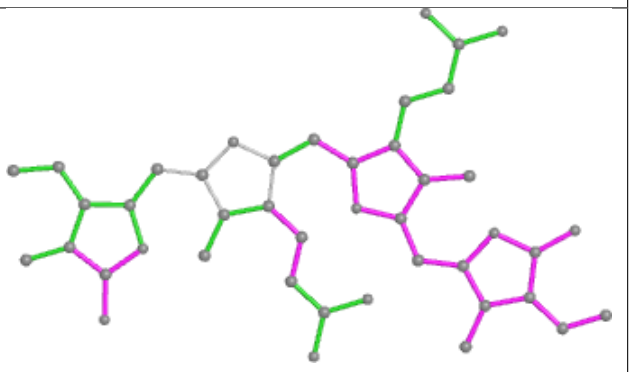


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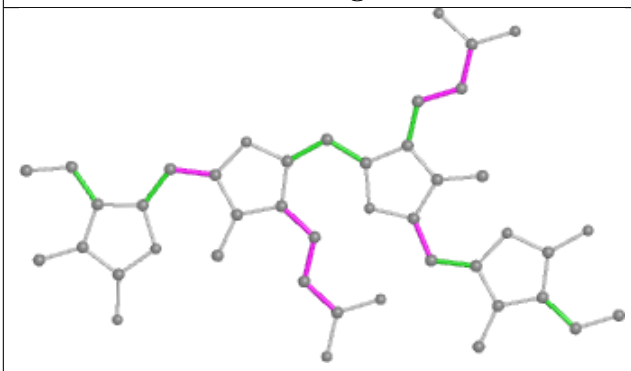
Ligand CYC I1 202



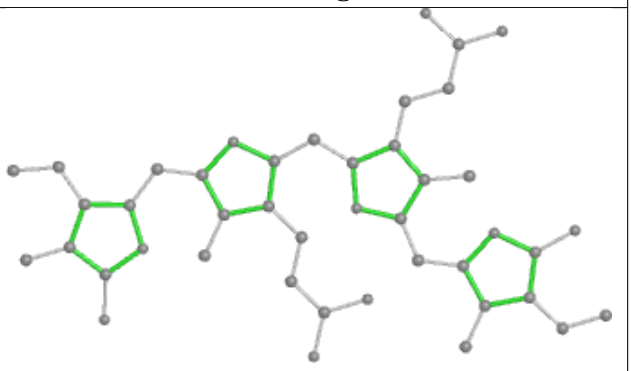
Bond lengths



Bond angles

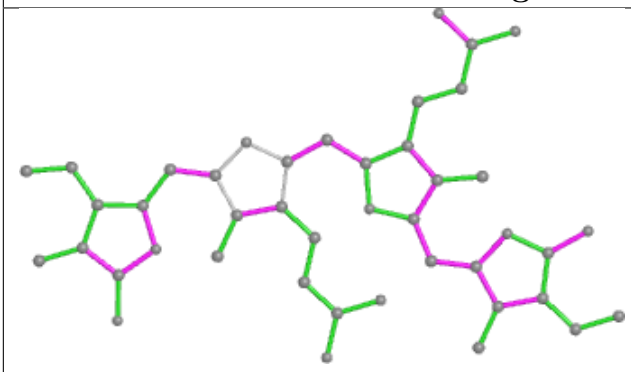


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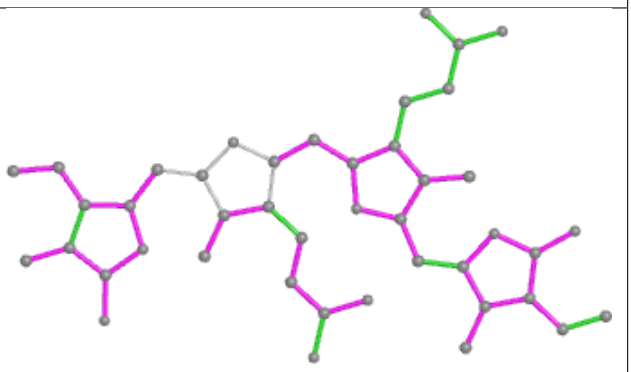


Rings

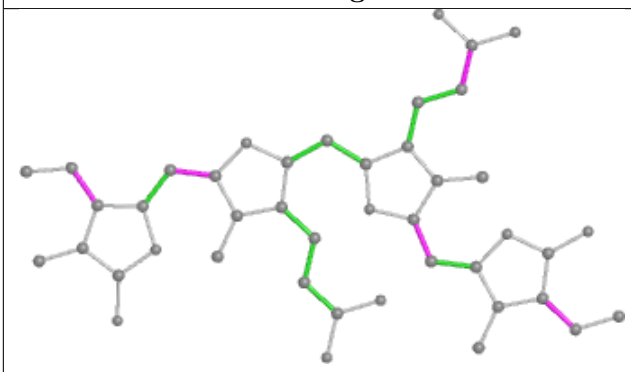
Ligand CYC K4 201



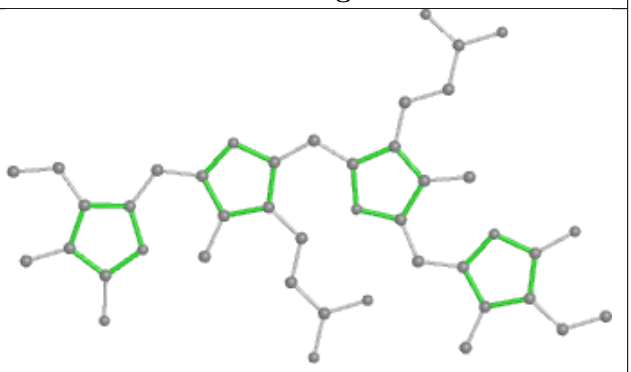
Bond lengths



Bond angles

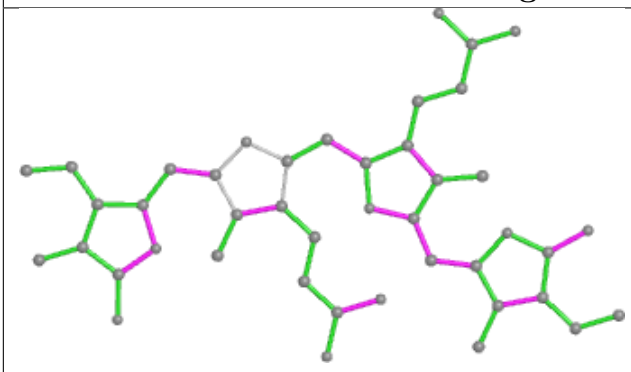


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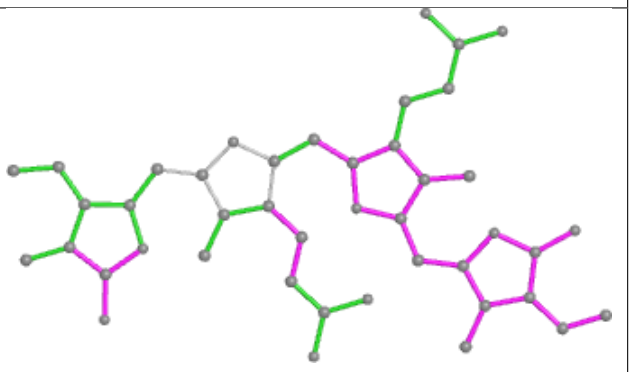


Rings

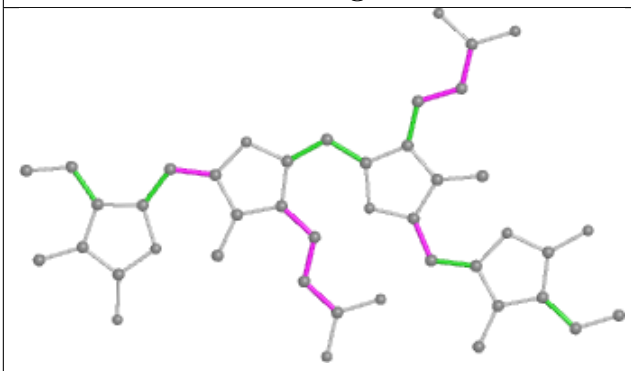
Ligand CYC I5 202



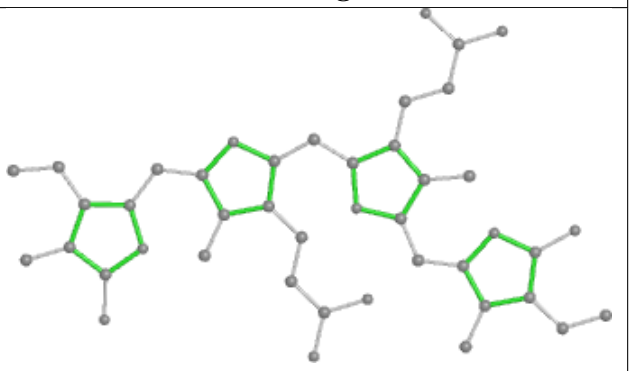
Bond lengths



Bond angles

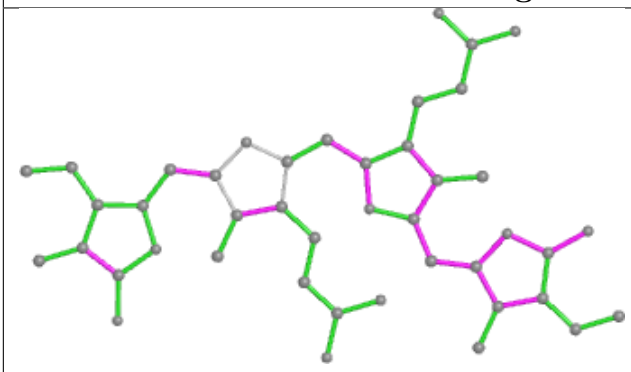


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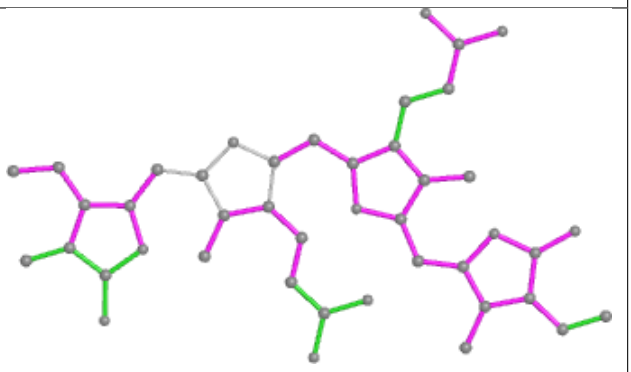


Rings

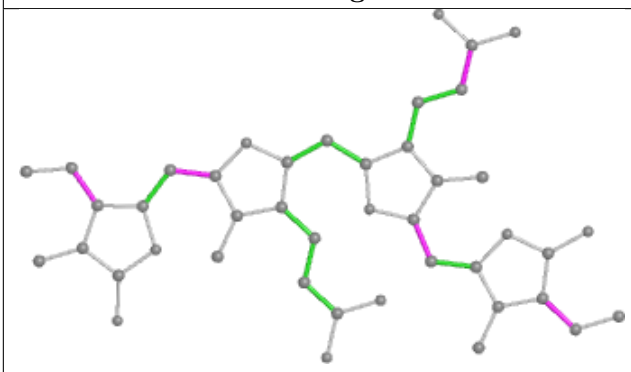
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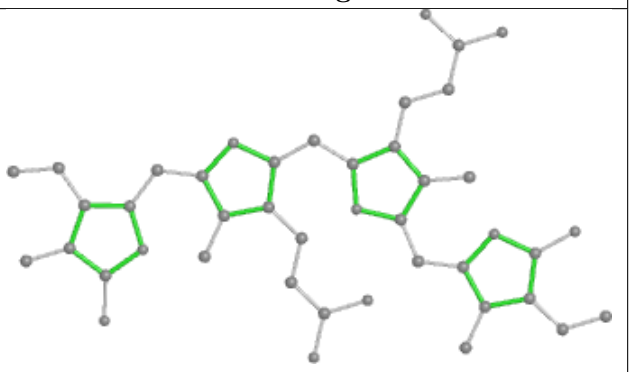
Bond lengths



Bond angles

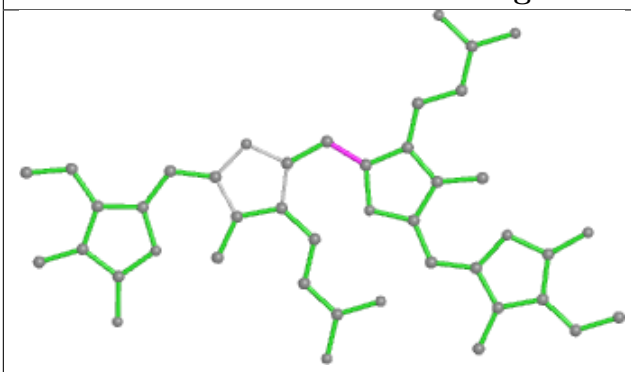


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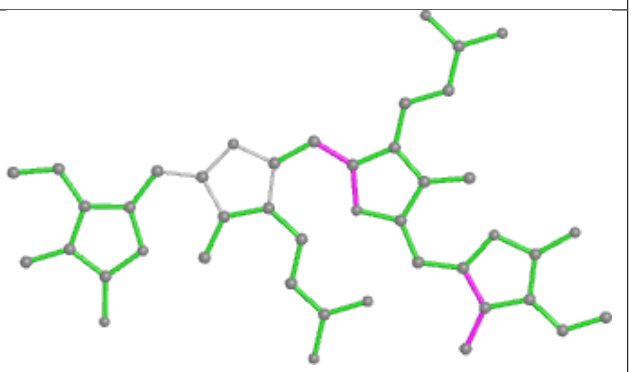


Rings

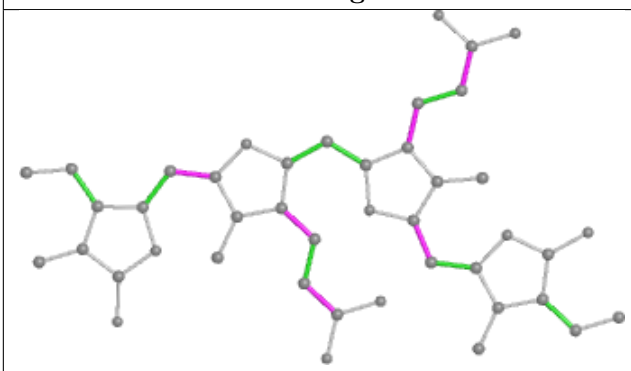
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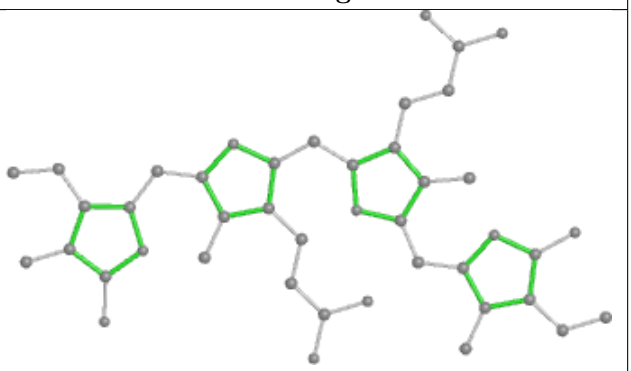
Bond lengths



Bond angles

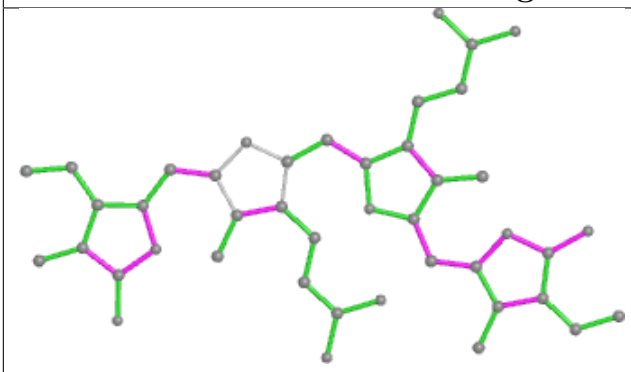


Torsions

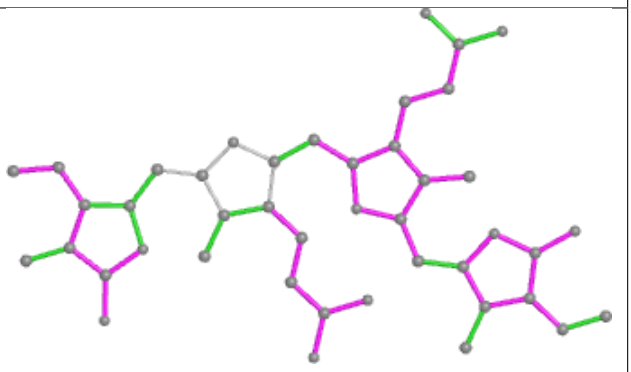


Rings

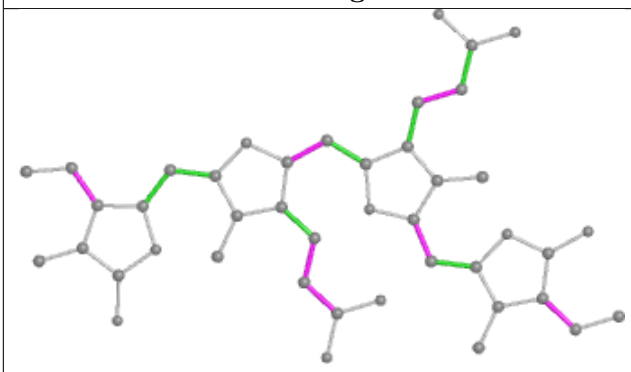
Ligand CYC J6 201



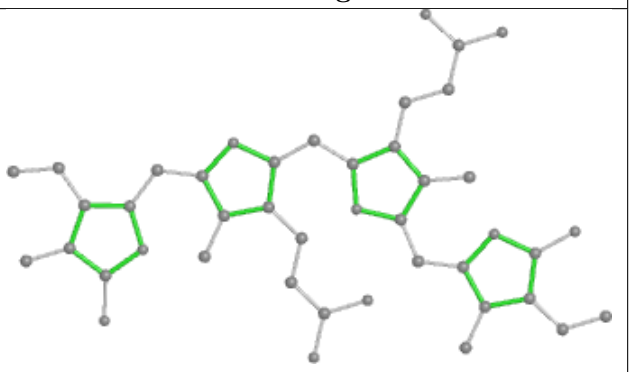
Bond lengths



Bond angles

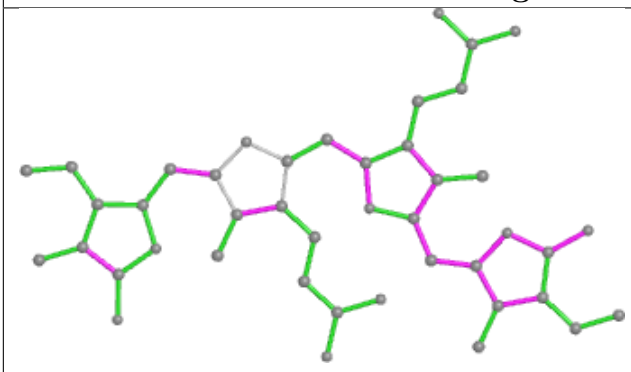


Torsions

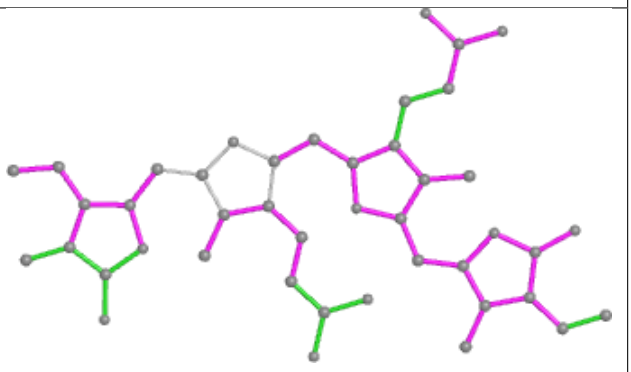


Rings

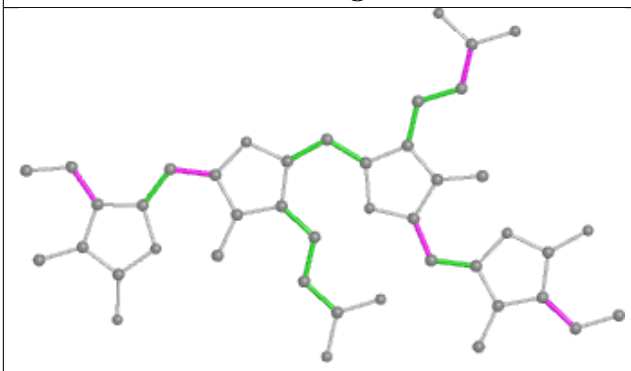
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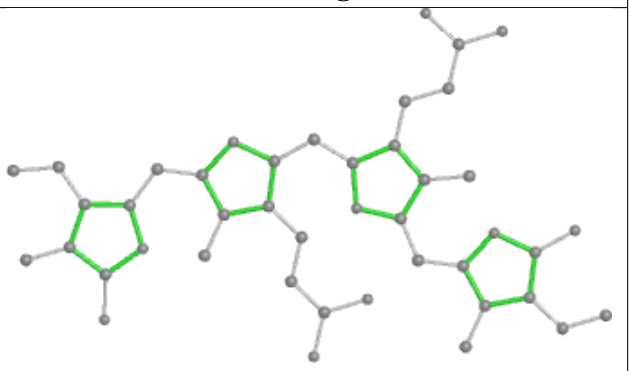
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Bond angles

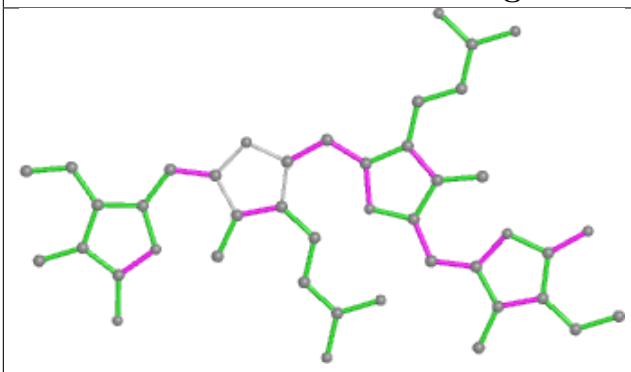


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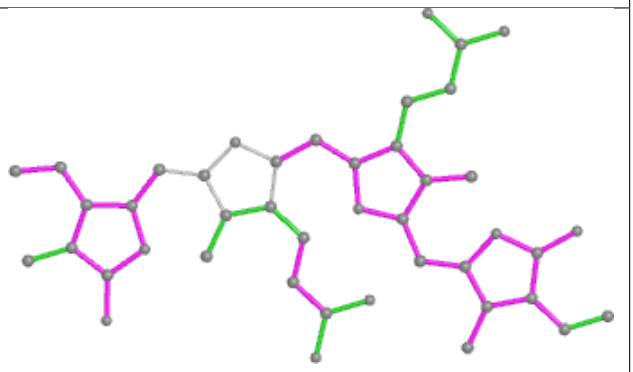


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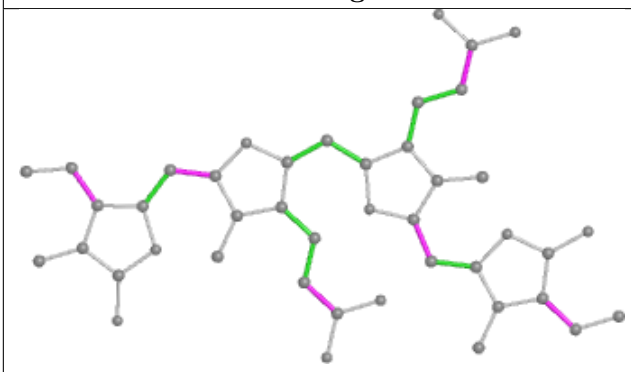
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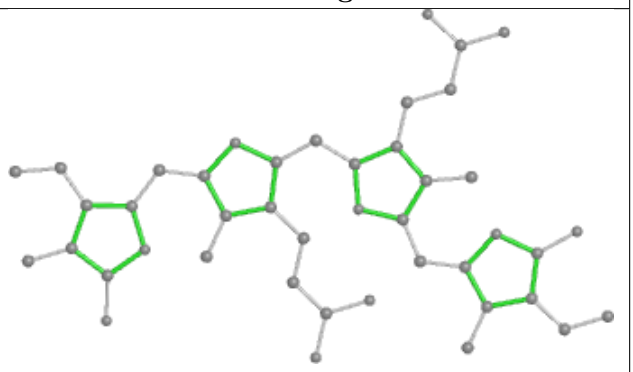
Bond lengths



Bond angles

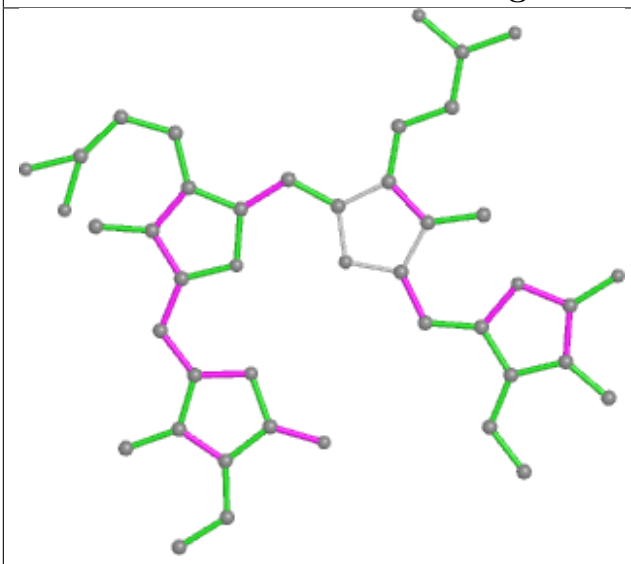


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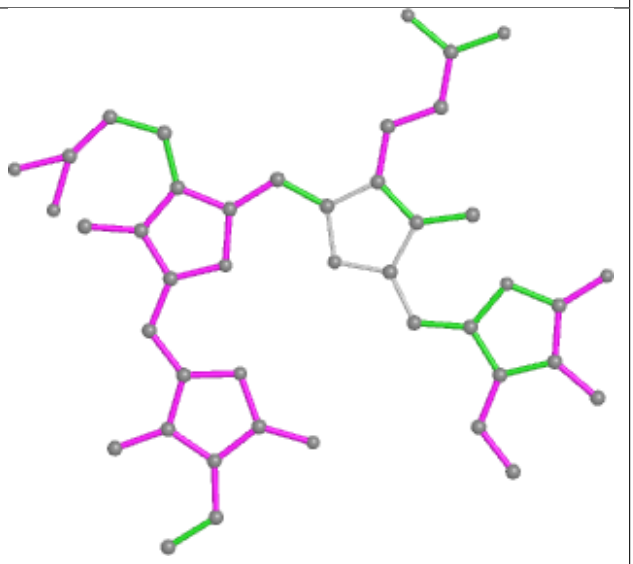


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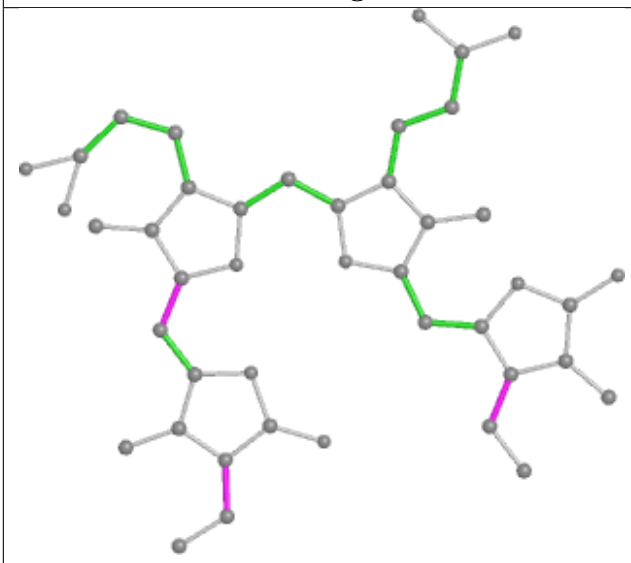
Ligand CYC M2 201



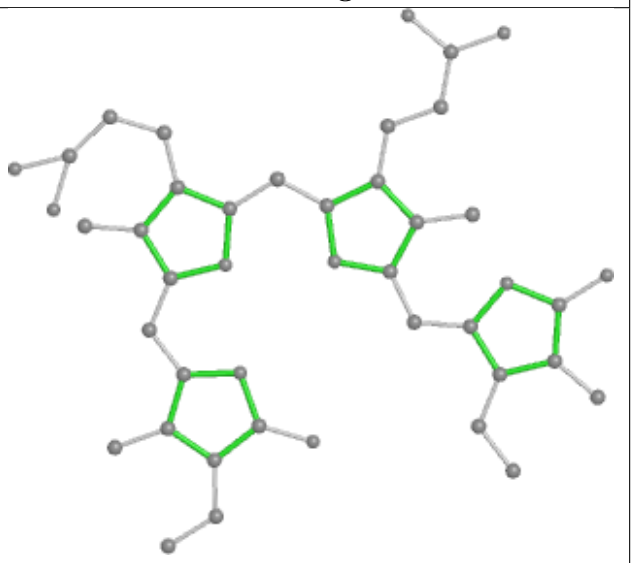
Bond lengths



Bond angles

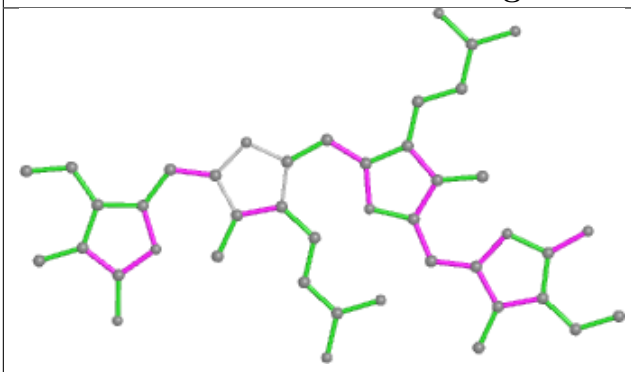


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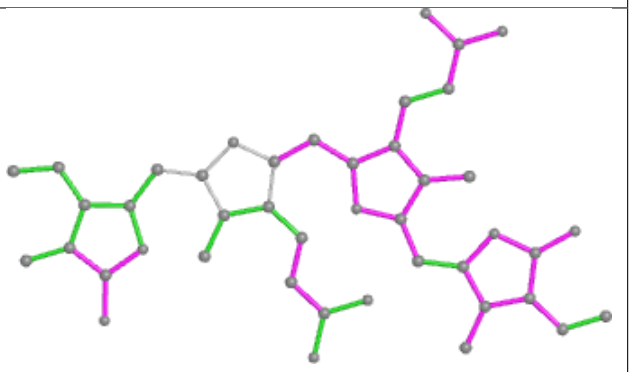


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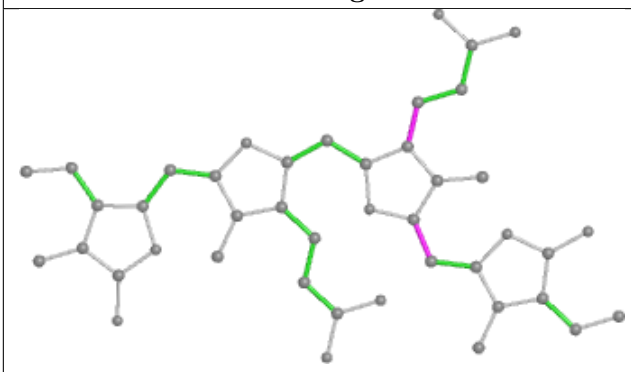
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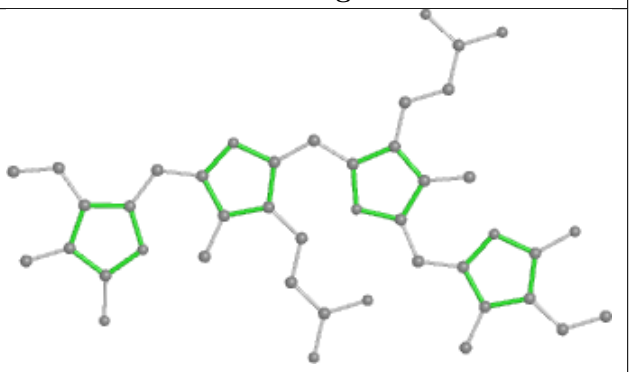
Bond lengths



Bond angles

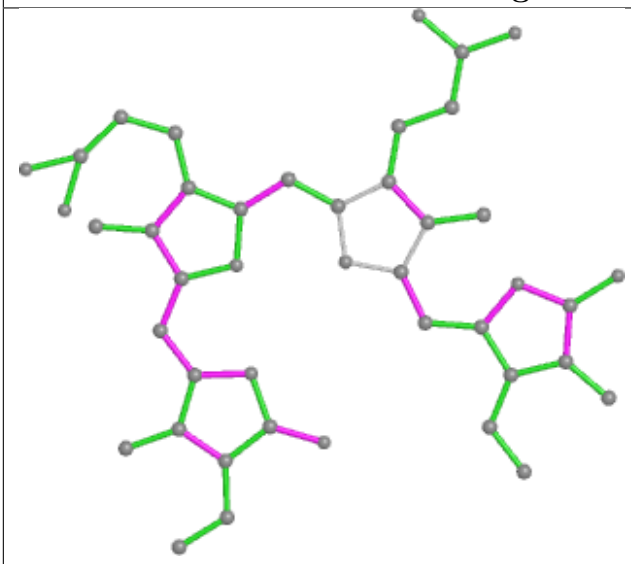


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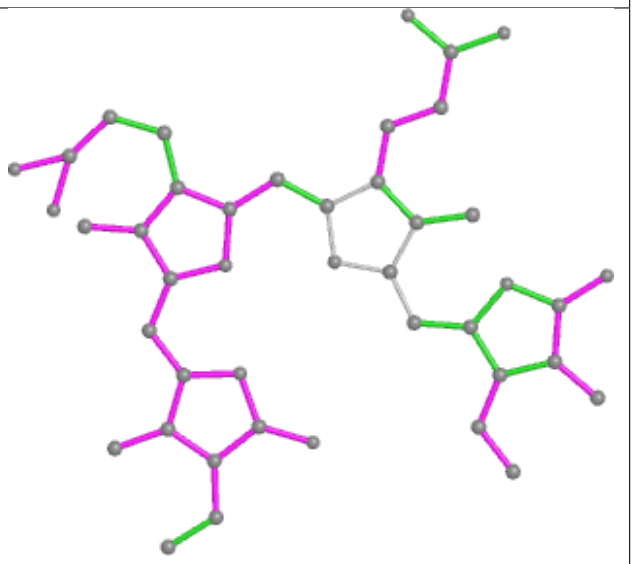


Rings

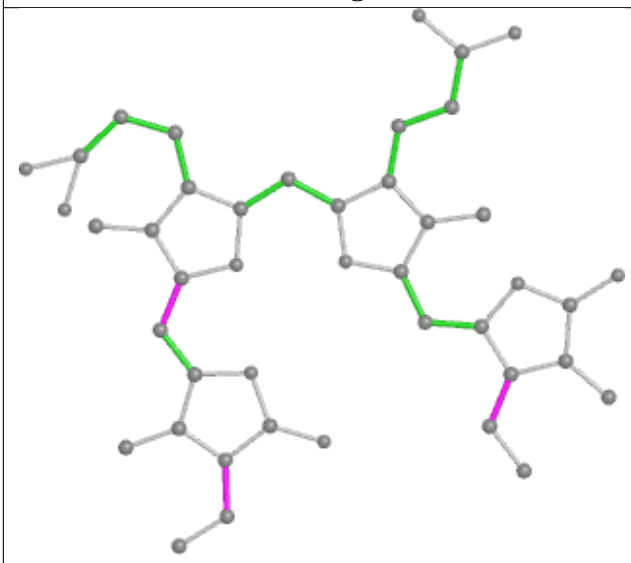
Ligand CYC K6 201



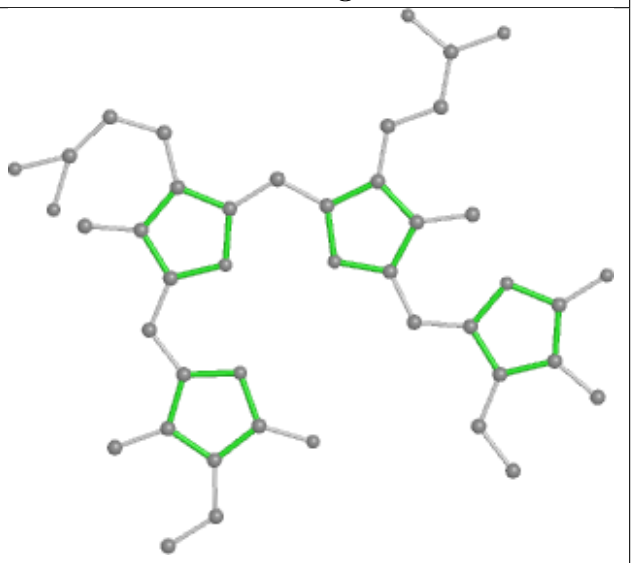
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Bond angles

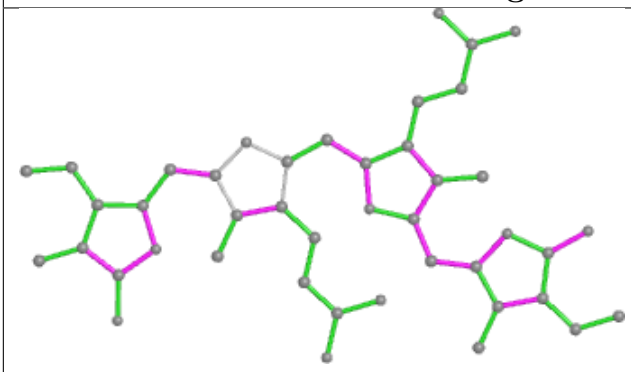


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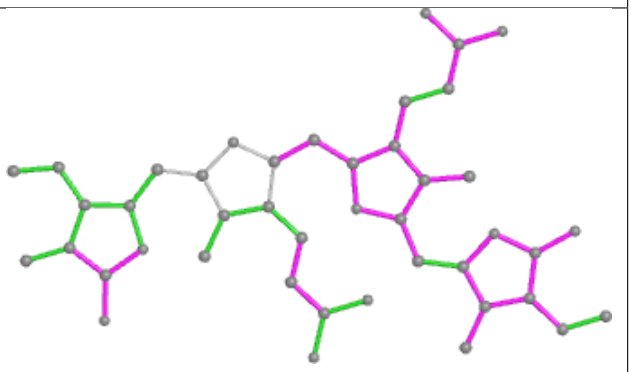


Rings

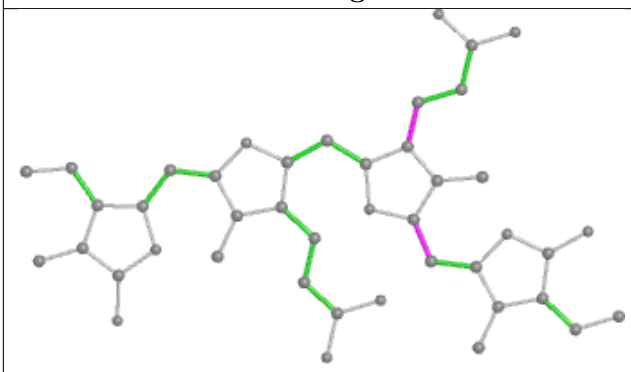
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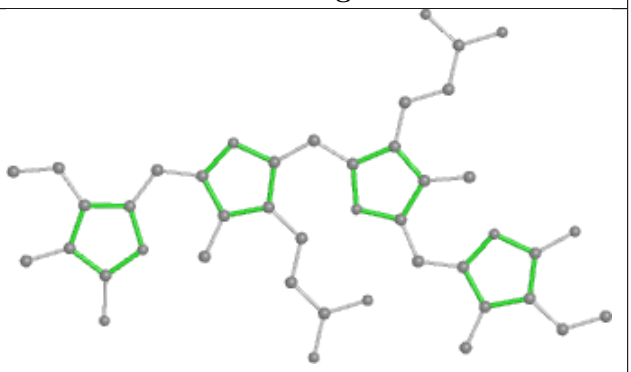
Bond lengths



Bond angles

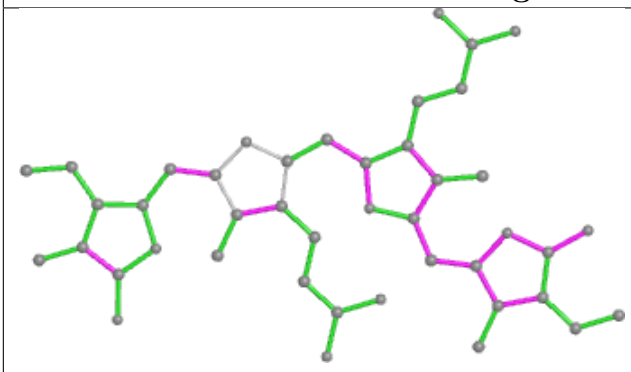


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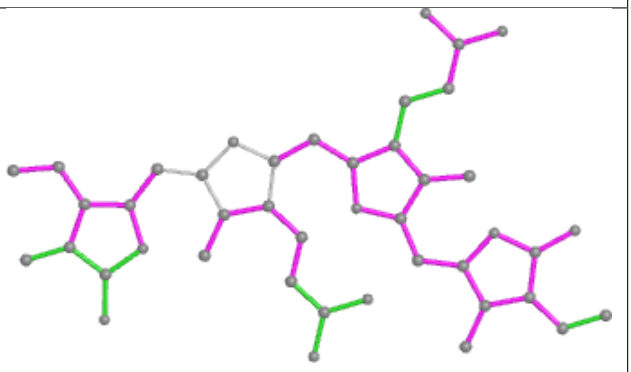


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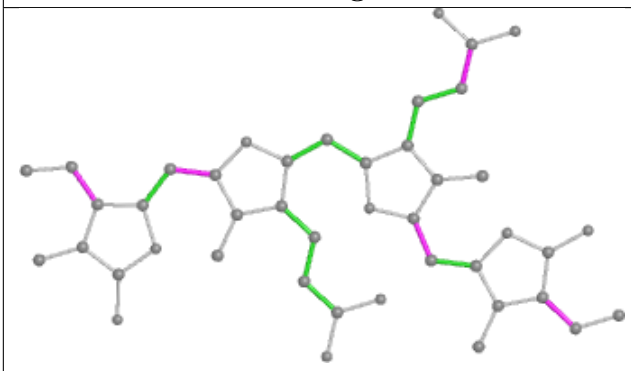
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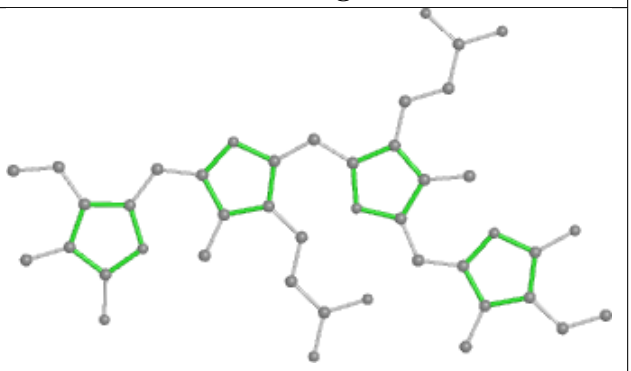
Bond lengths



Bond angles

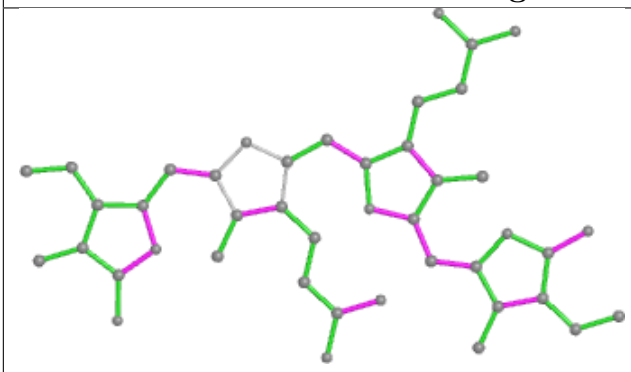


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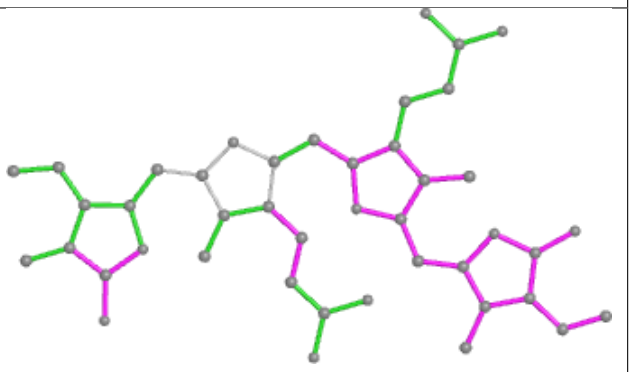


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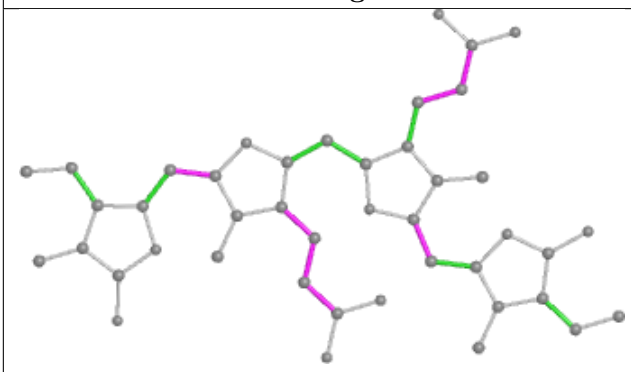
Ligand CYC M1 202



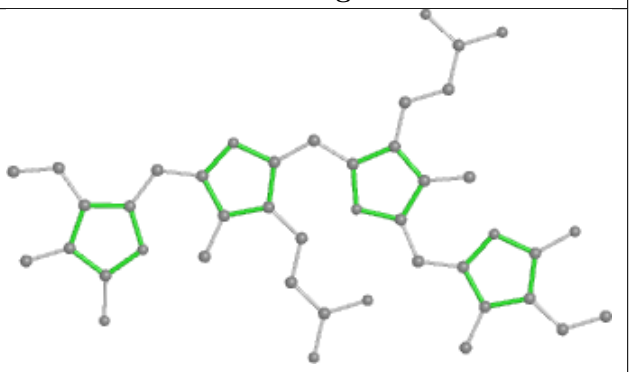
Bond lengths



Bond angles

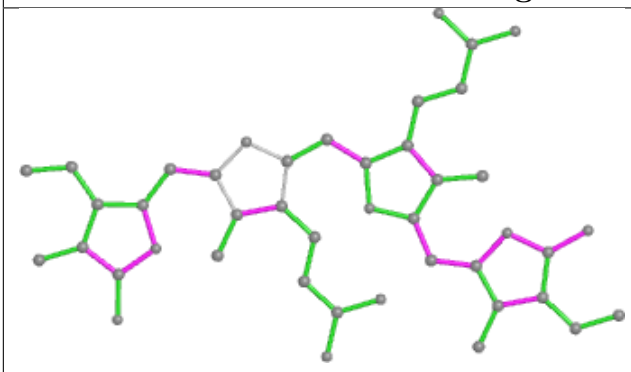


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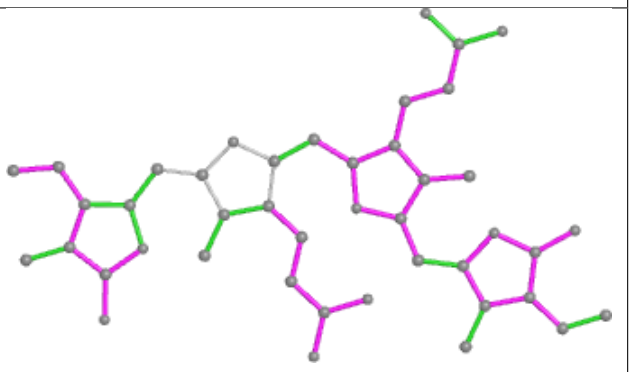


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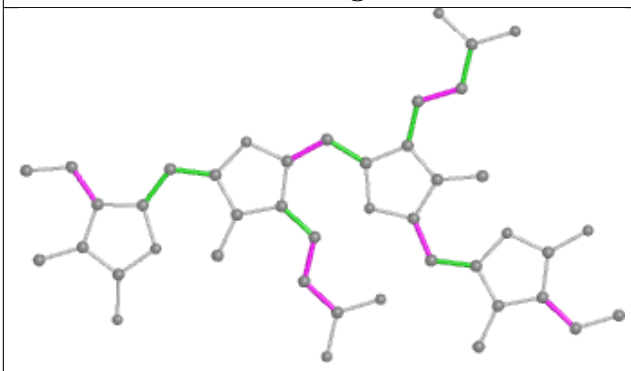
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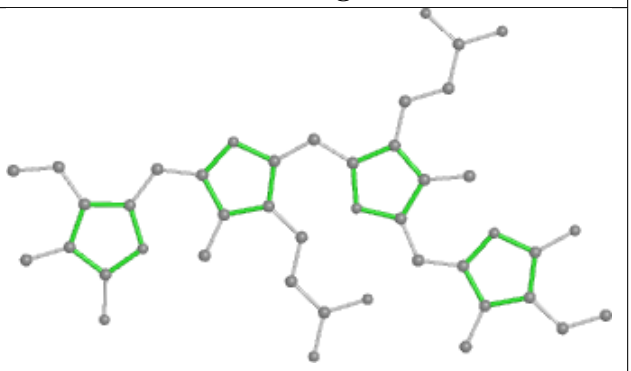
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Bond angles

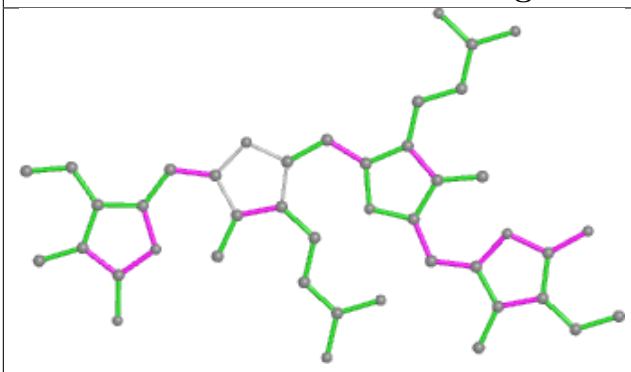


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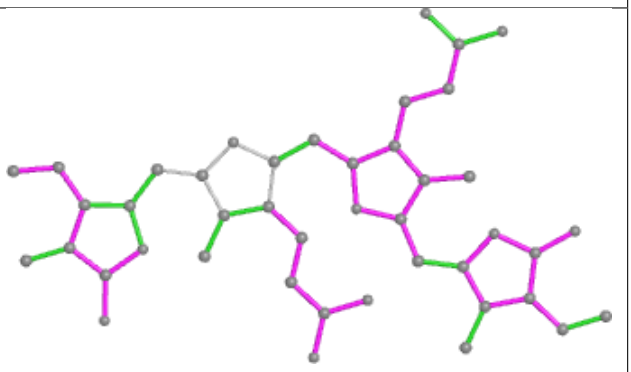


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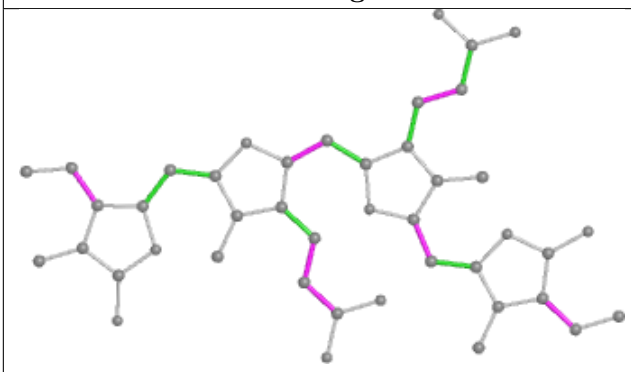
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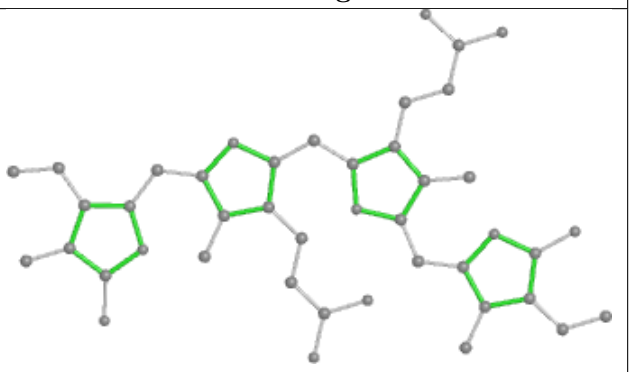
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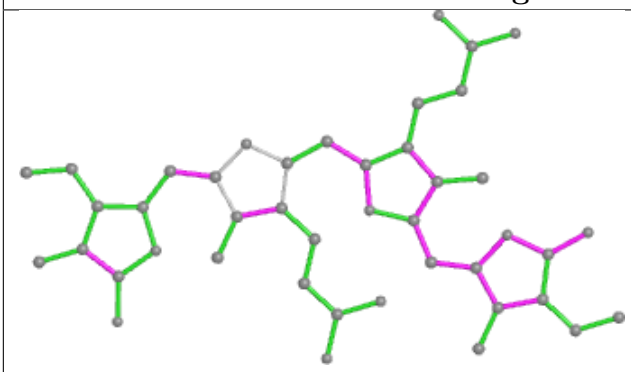


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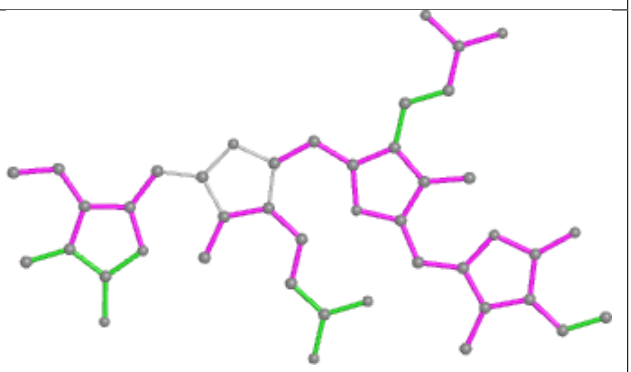


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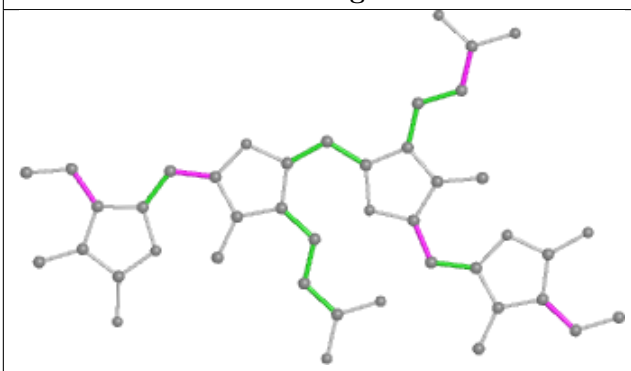
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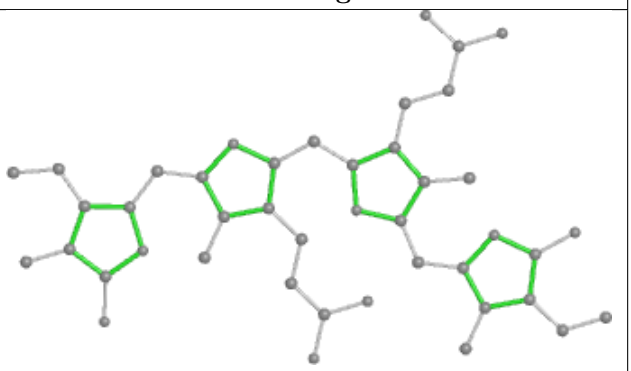
Bond lengths



Bond angles

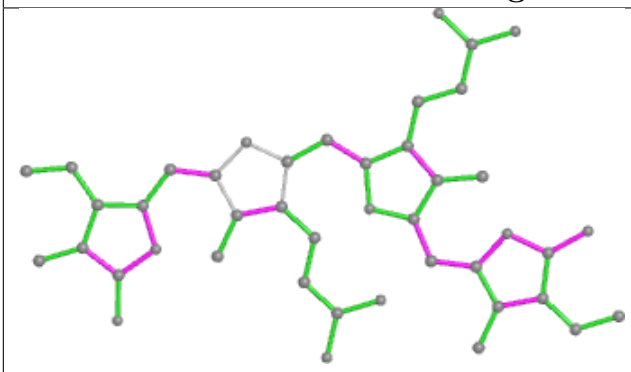


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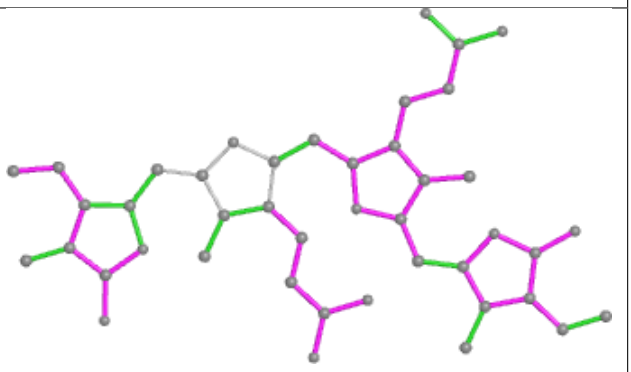


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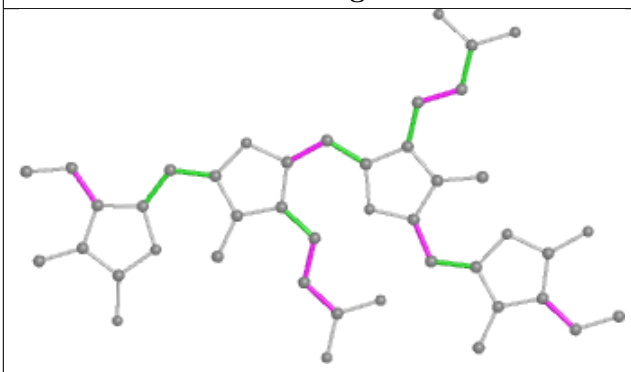
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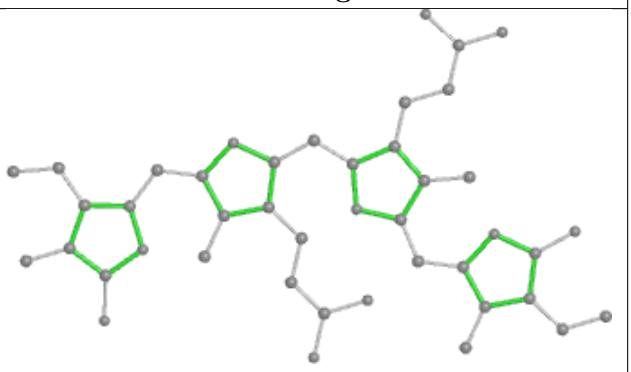
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Bond angles

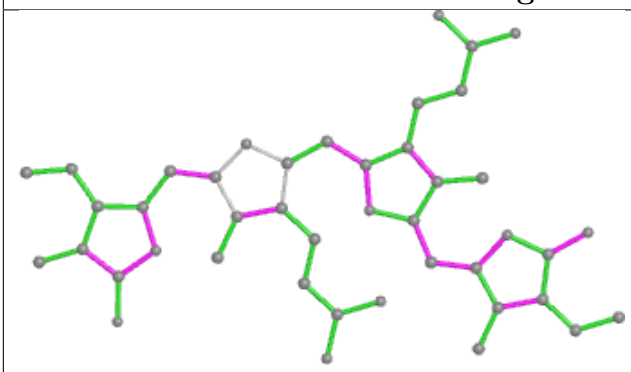


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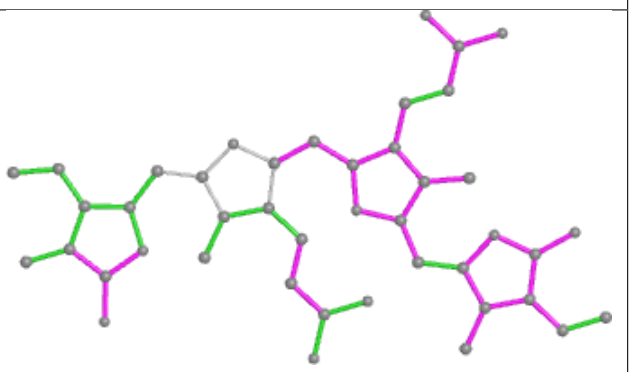


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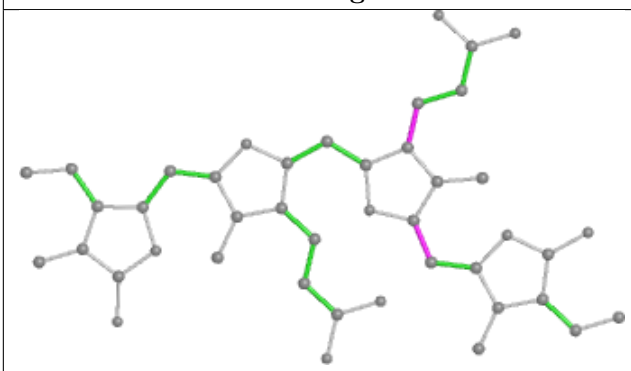
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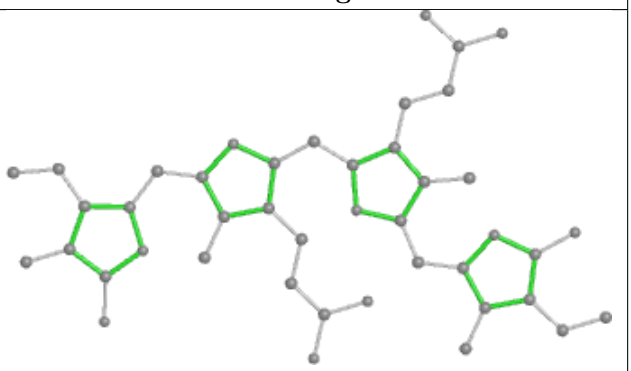
Bond lengths



Bond angles

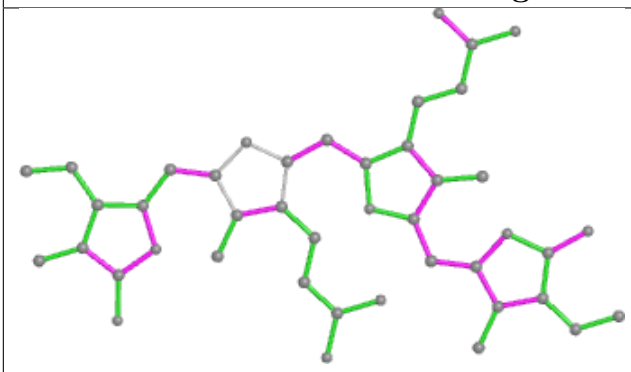


Torsions

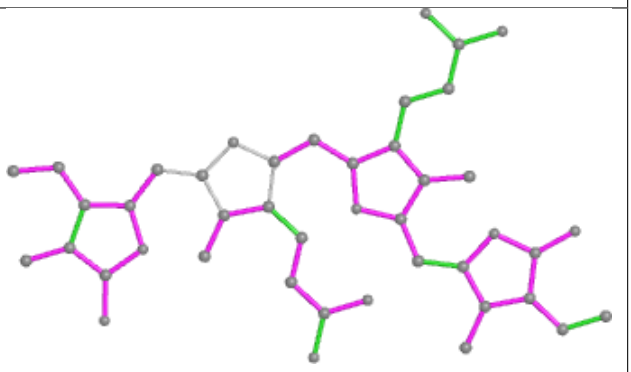


Rings

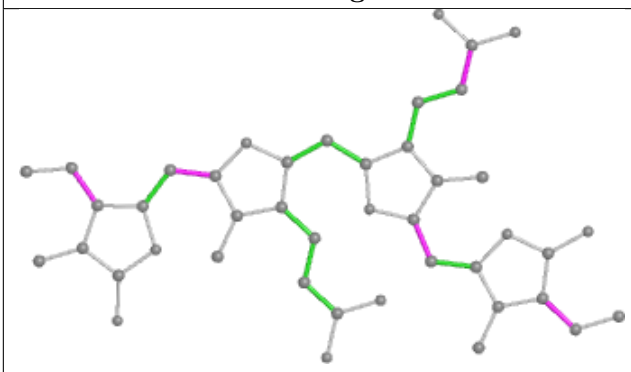
Ligand CYC N8 301



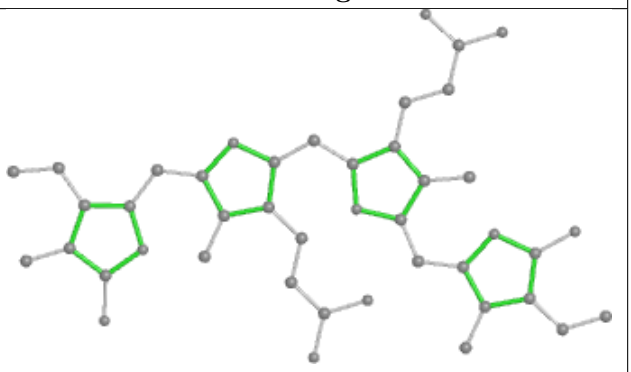
Bond lengths



Bond angles

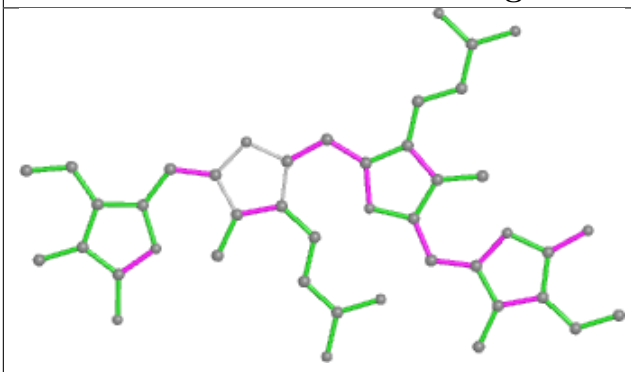


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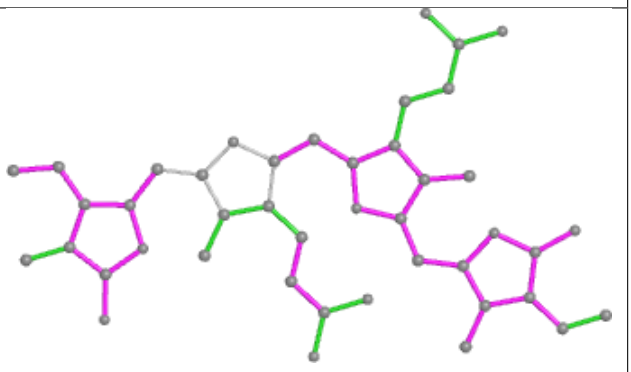


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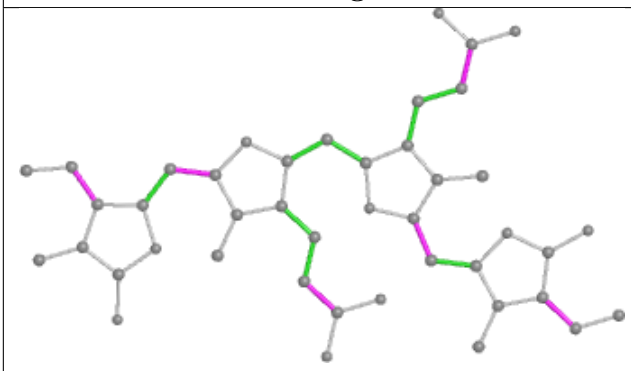
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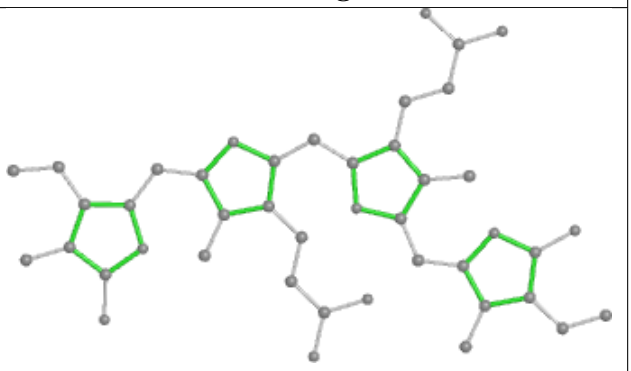
Bond lengths



Bond angles

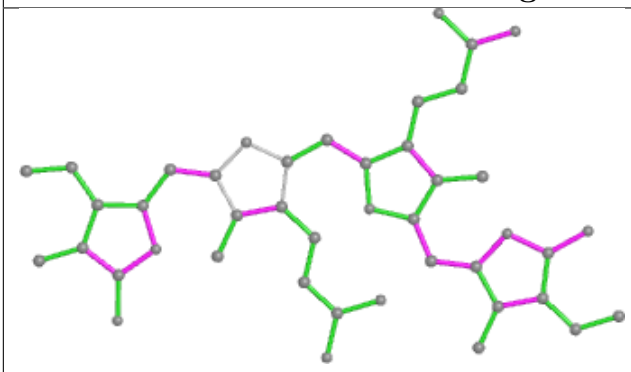


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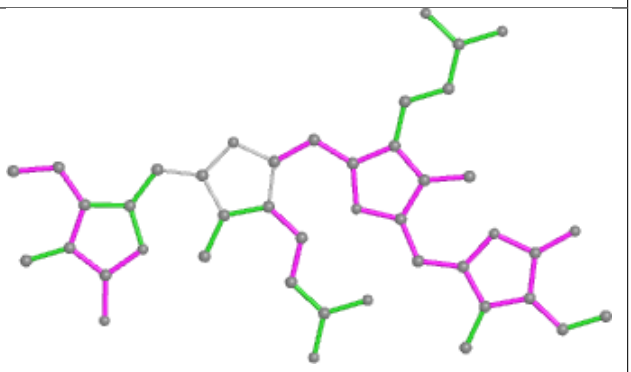


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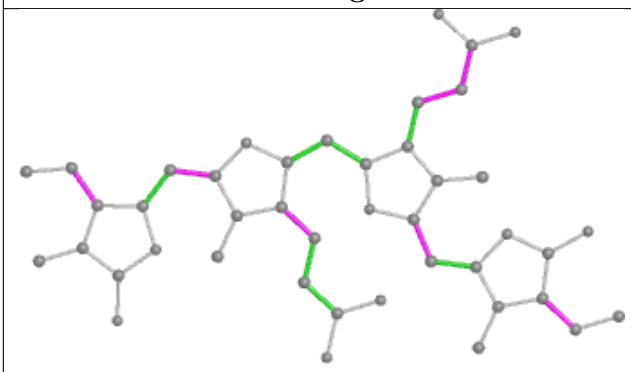
Ligand CYC I4 203



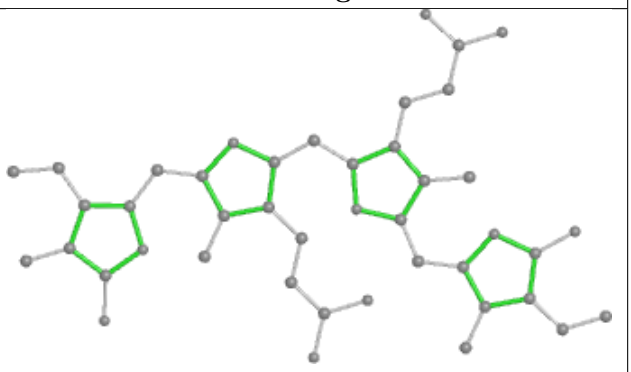
Bond lengths



Bond angles

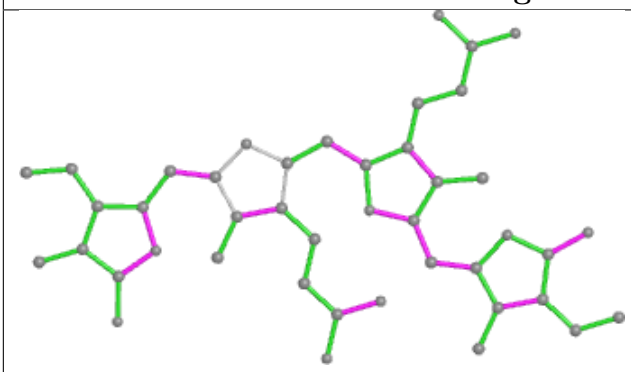


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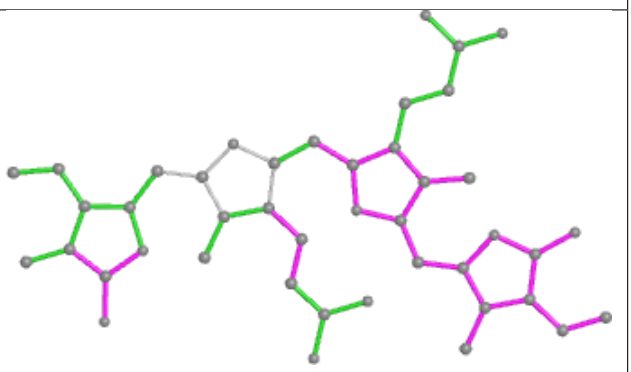


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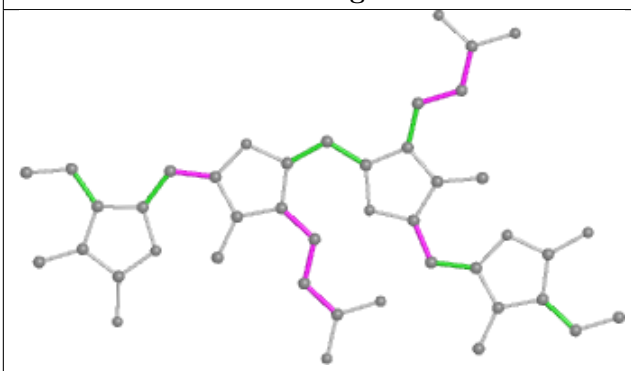
Ligand CYC T5 201



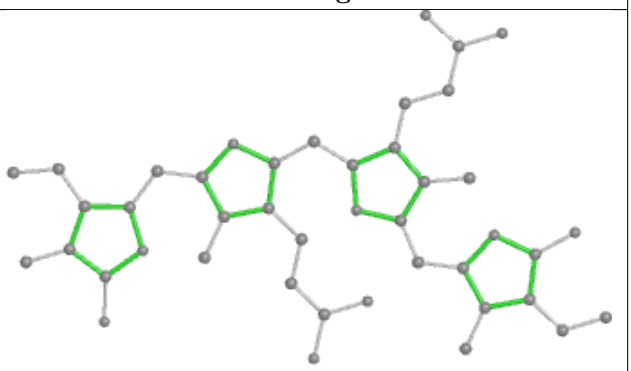
Bond lengths



Bond angles

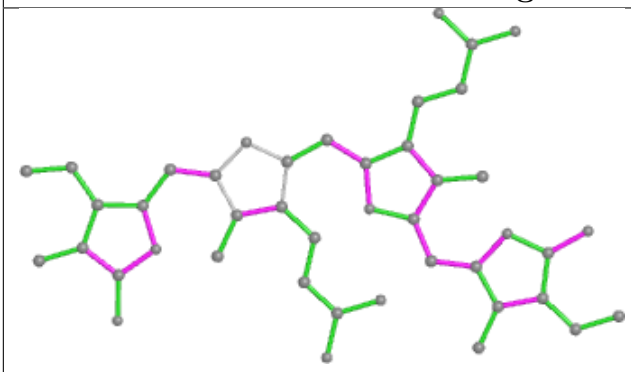


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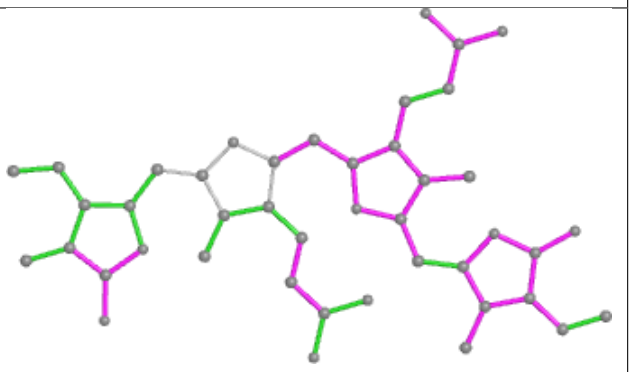


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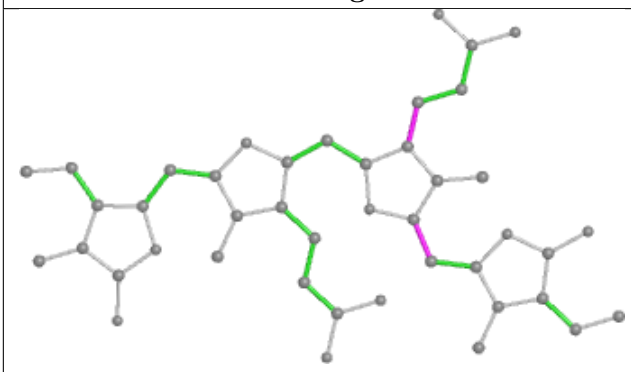
Ligand CYC J3 201



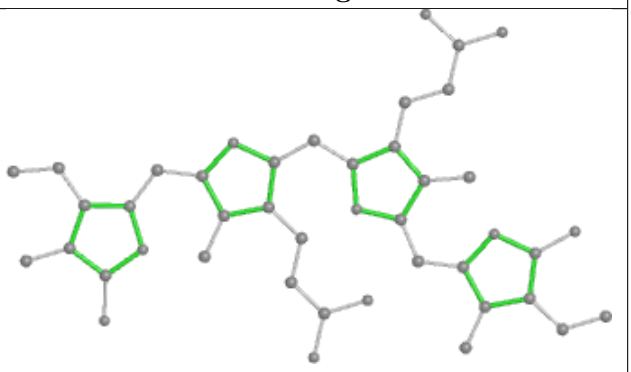
Bond lengths



Bond angles

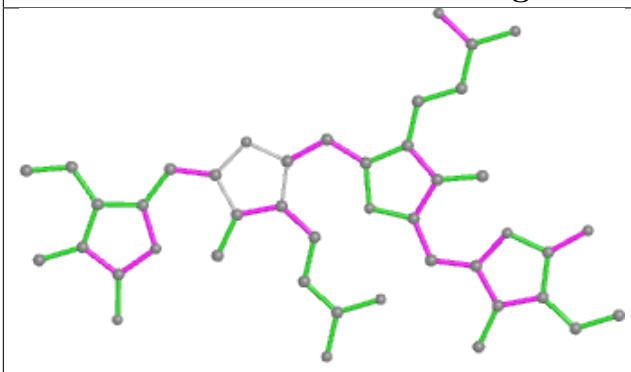


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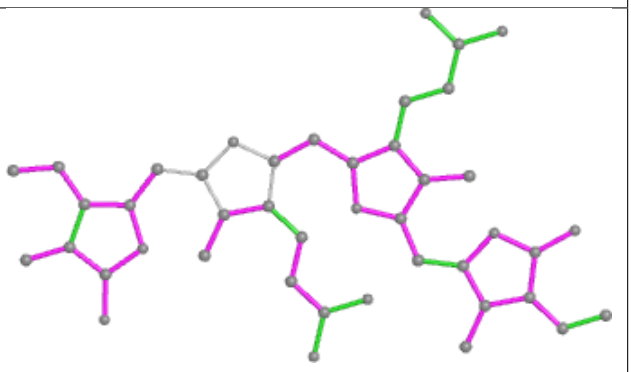


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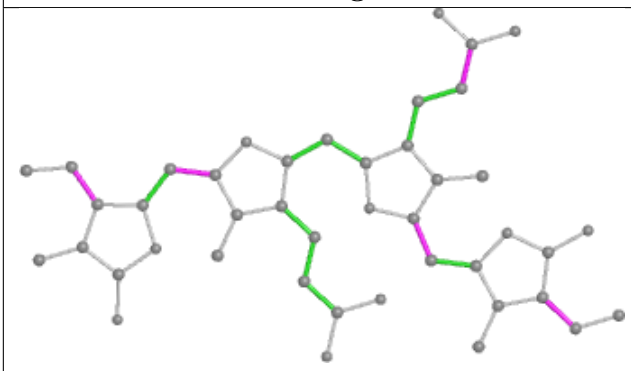
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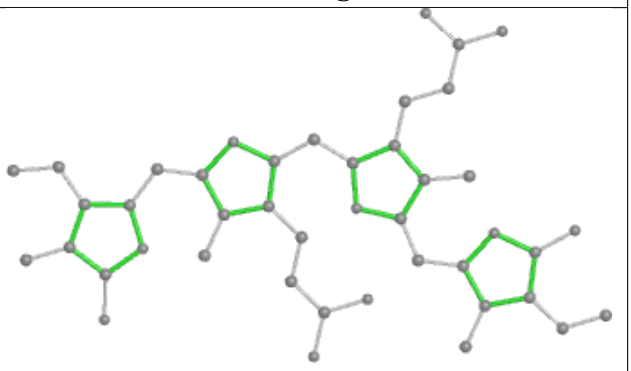
Bond lengths



Bond angles

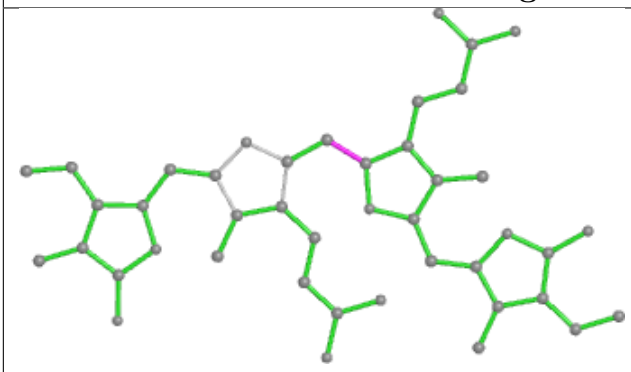


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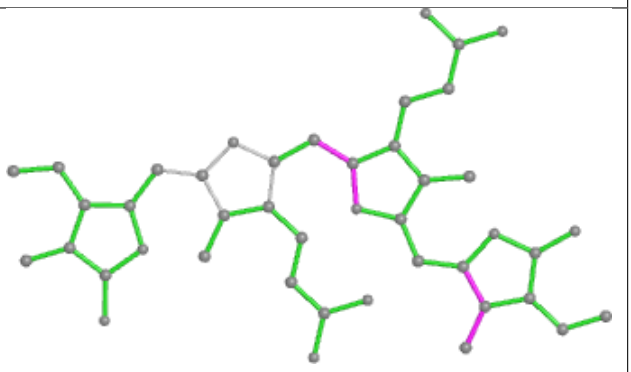


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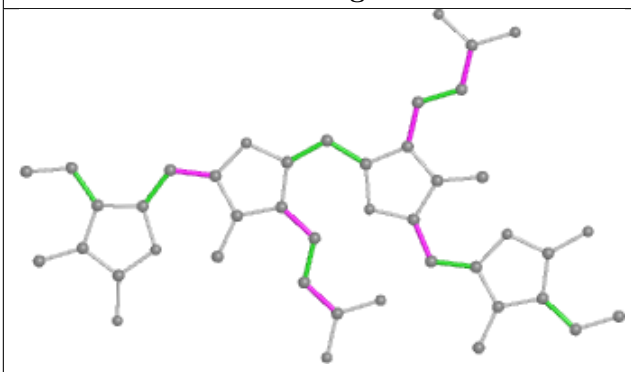
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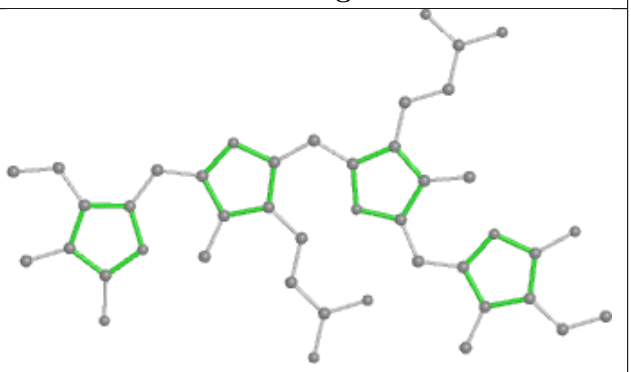
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Bond angles

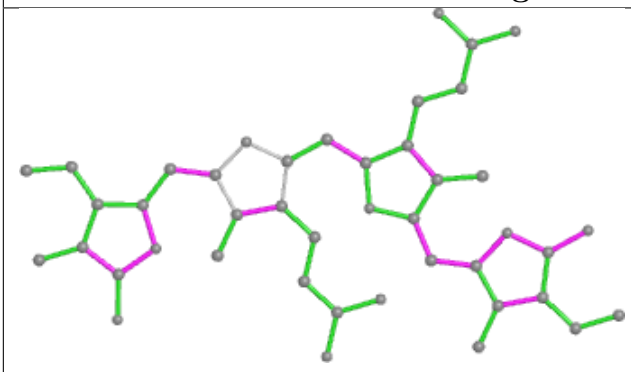


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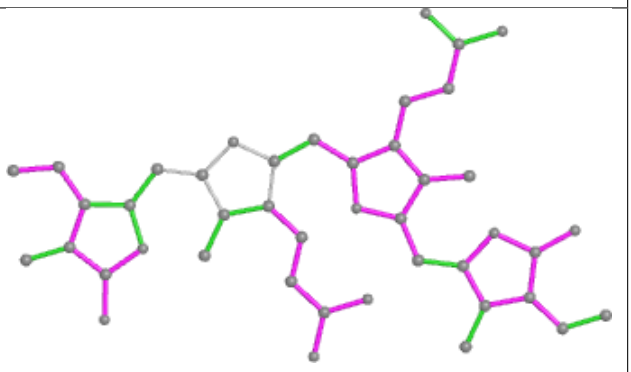


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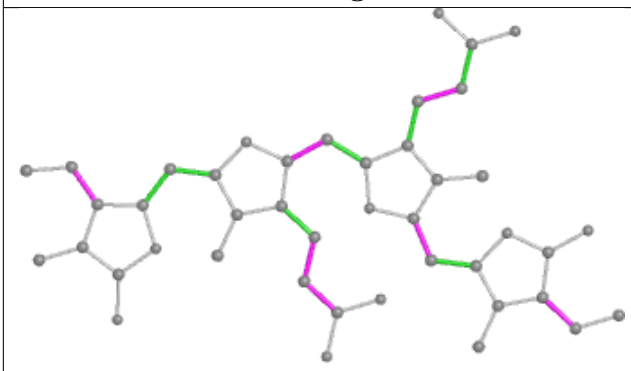
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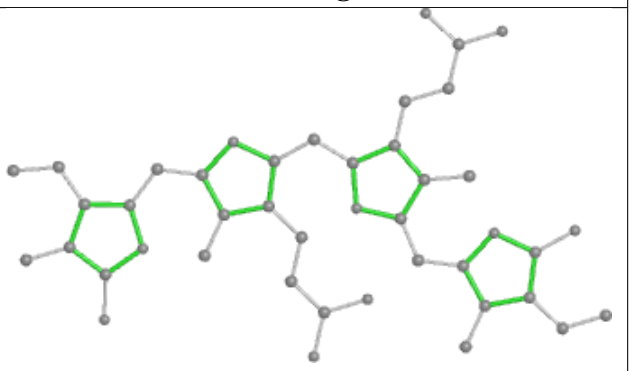
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Bond angles

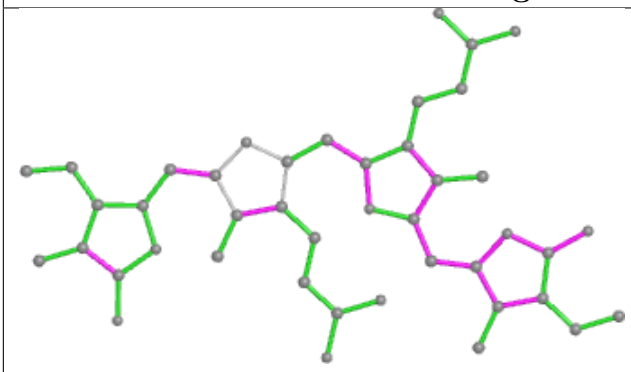


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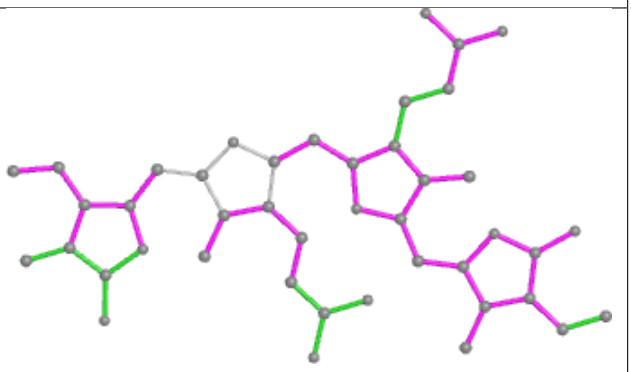


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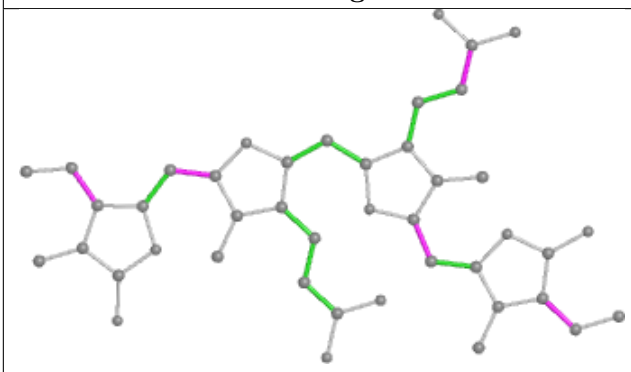
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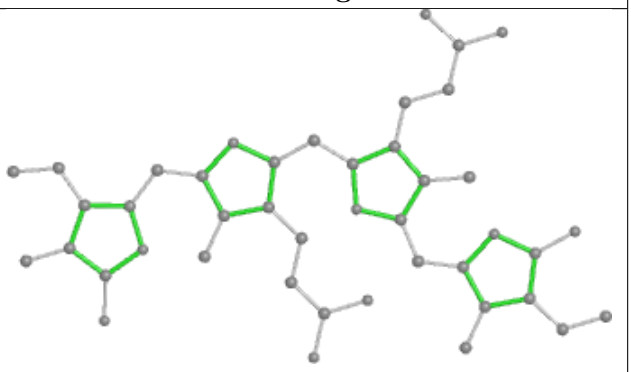
Bond lengths



Bond angles

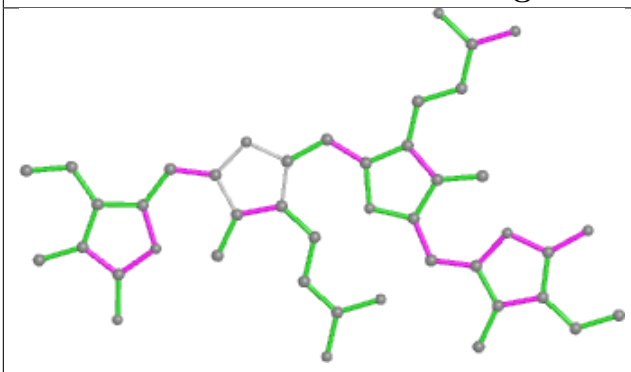


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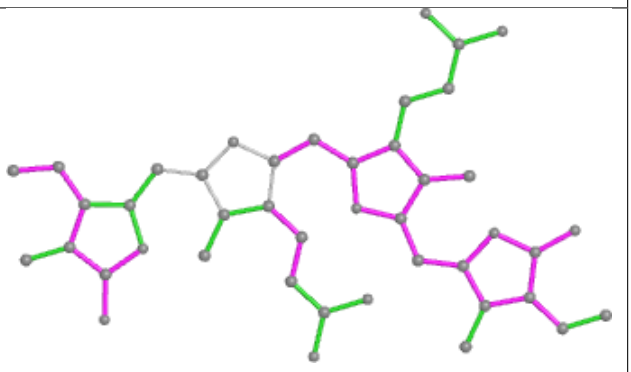


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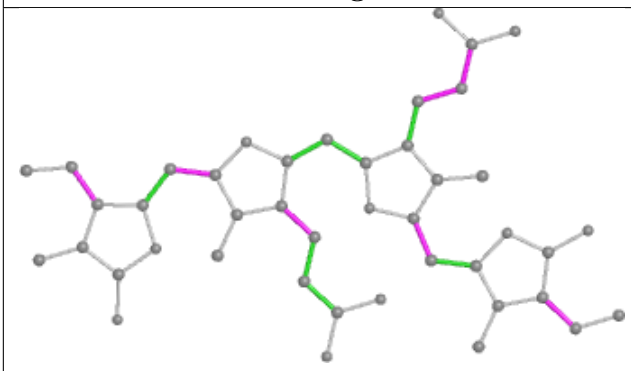
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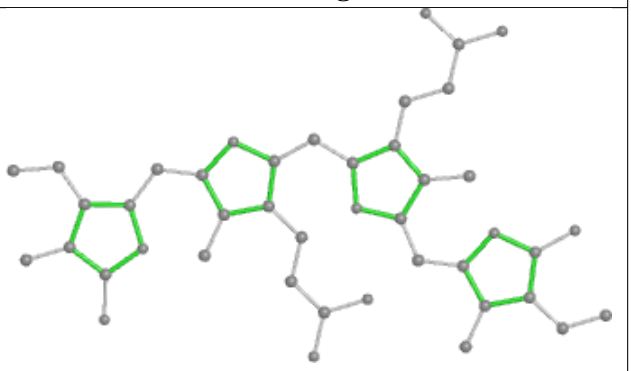
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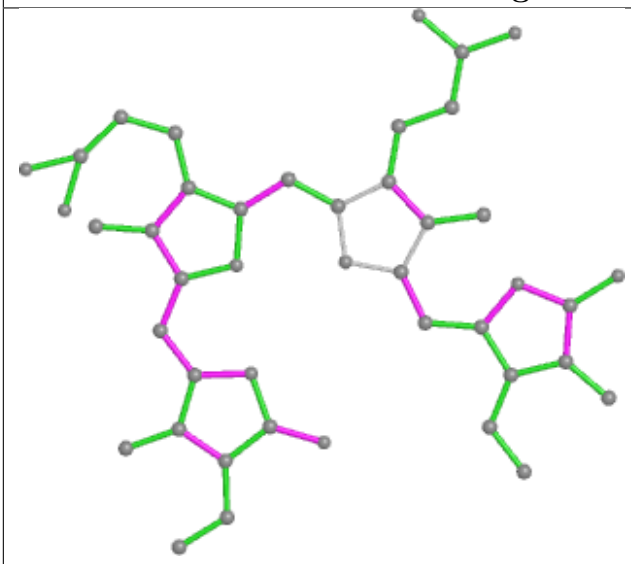


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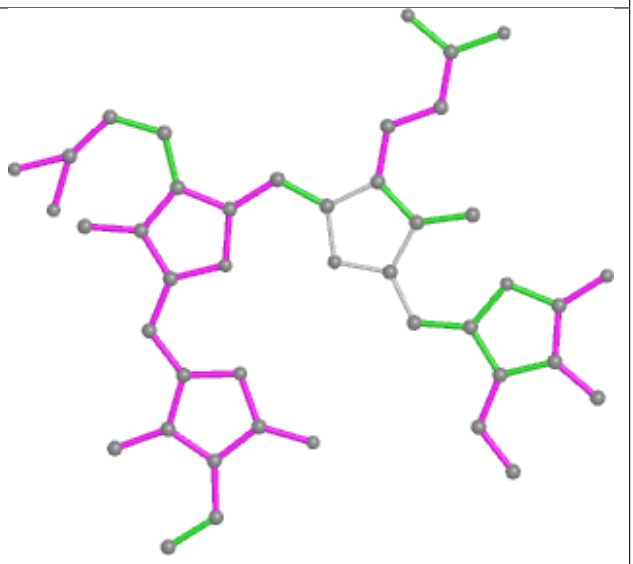


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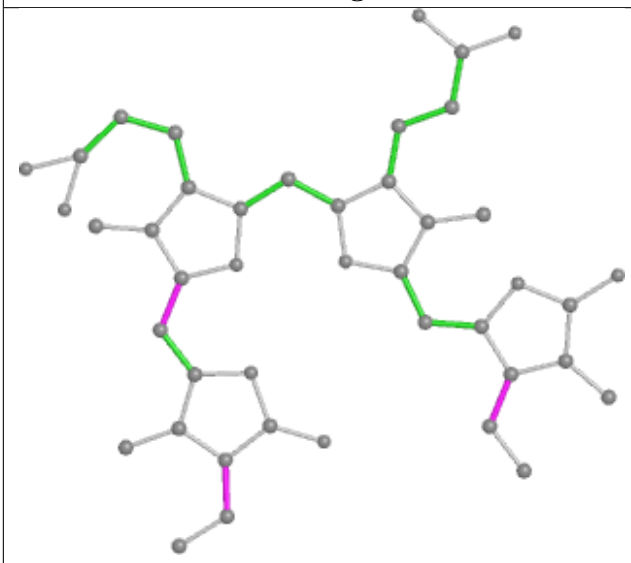
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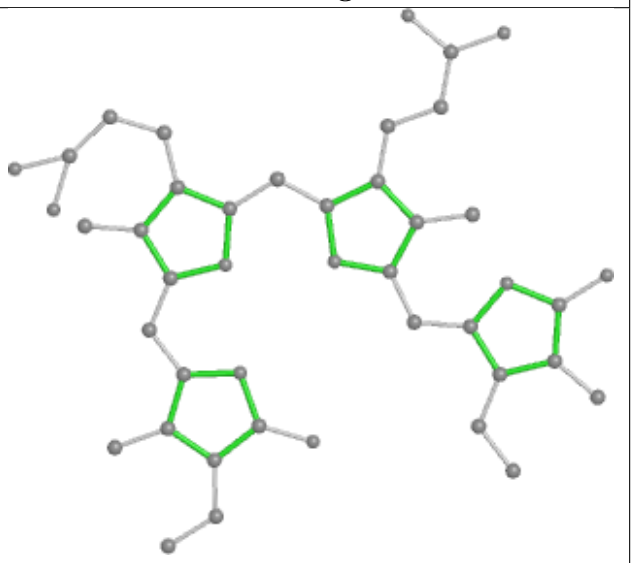
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Bond angles

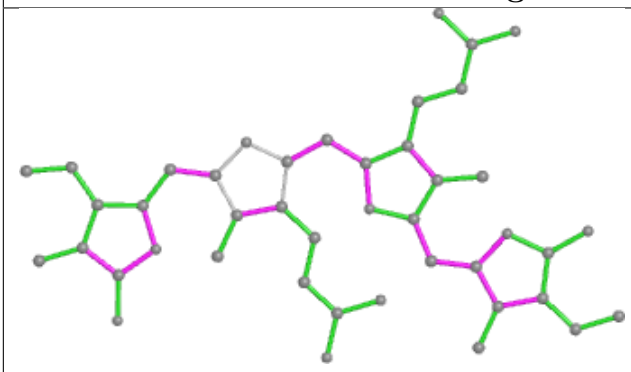


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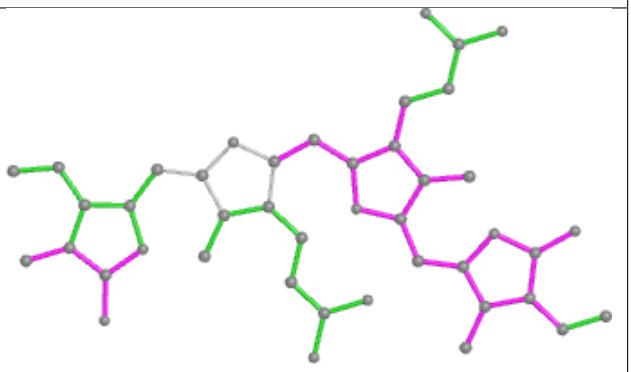


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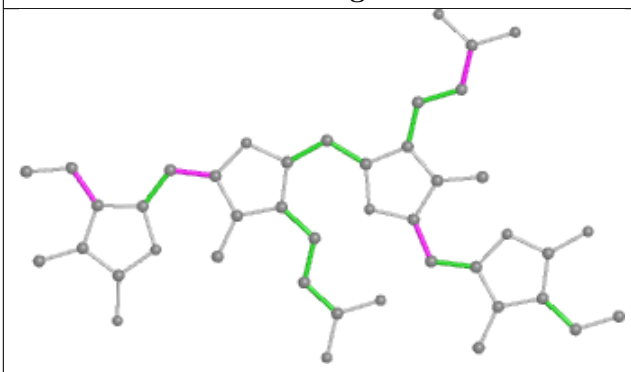
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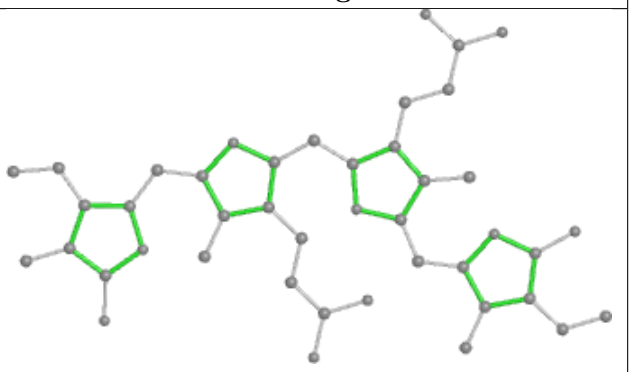
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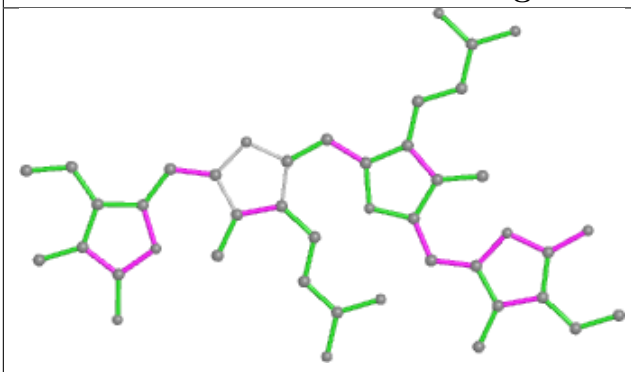


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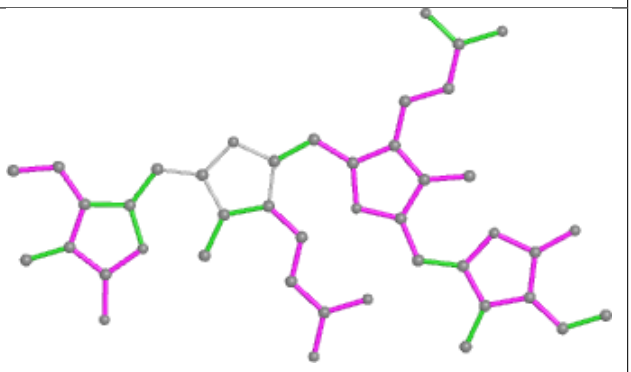


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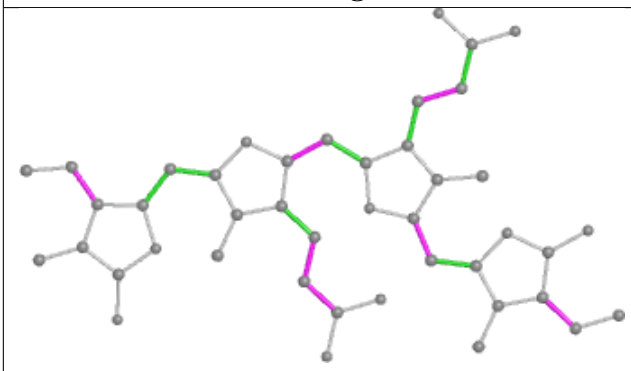
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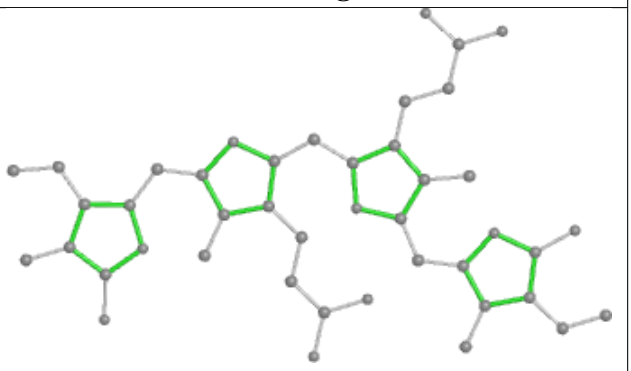
Bond lengths



Bond angles

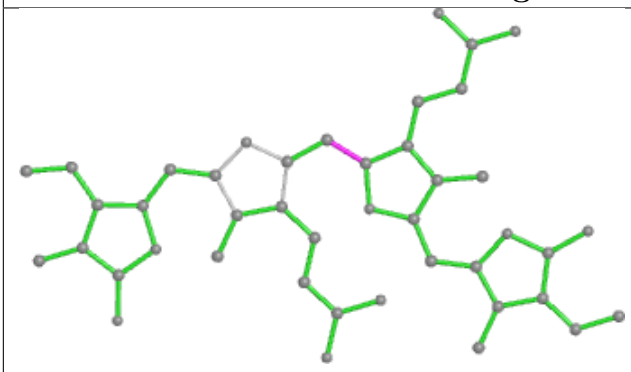


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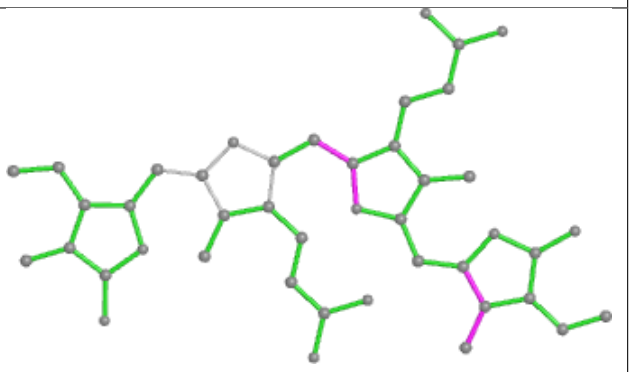


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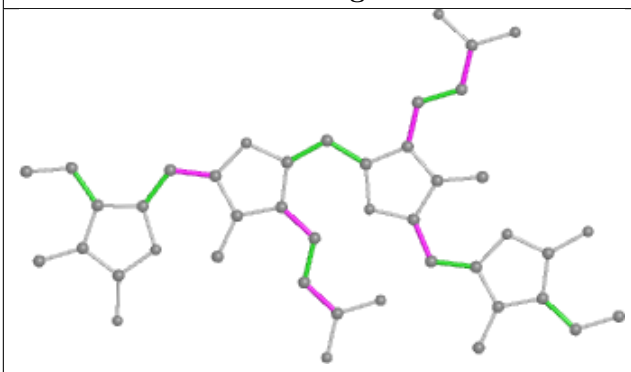
Ligand CYC V6 202



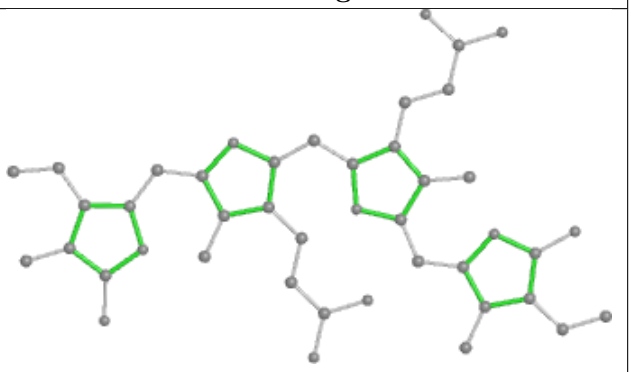
Bond lengths



Bond angles

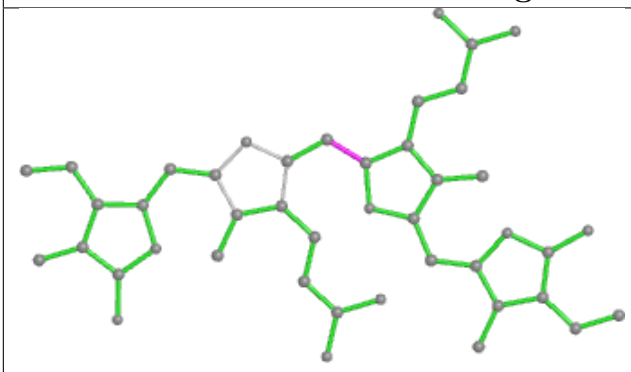


Torsions

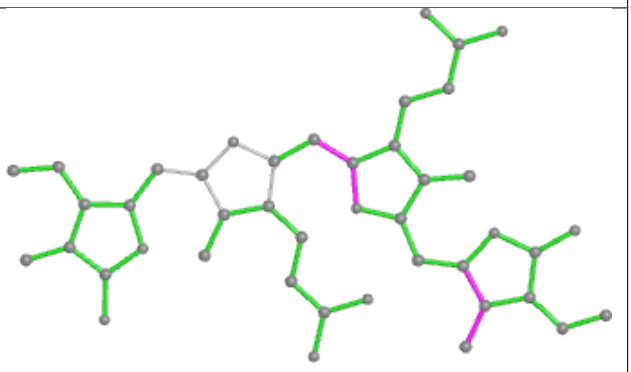


Rings

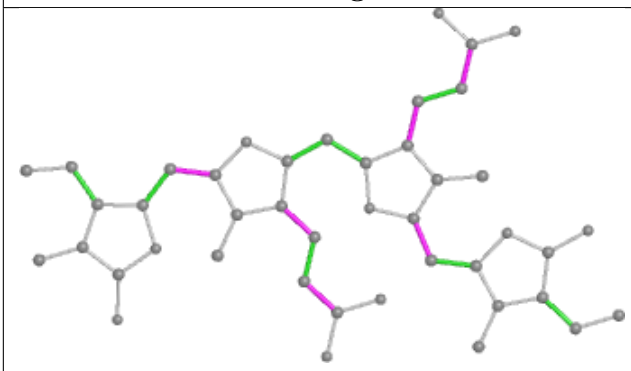
Ligand CYC F8 201



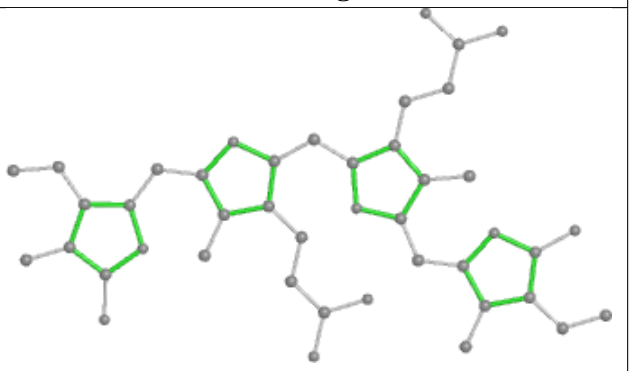
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Bond angles

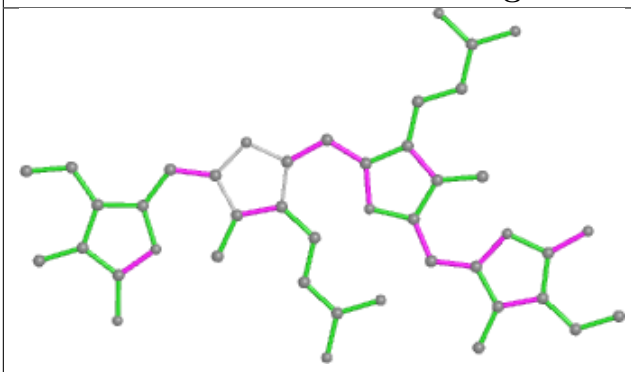


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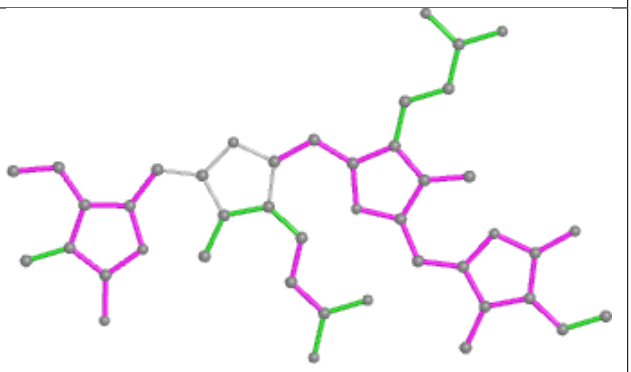


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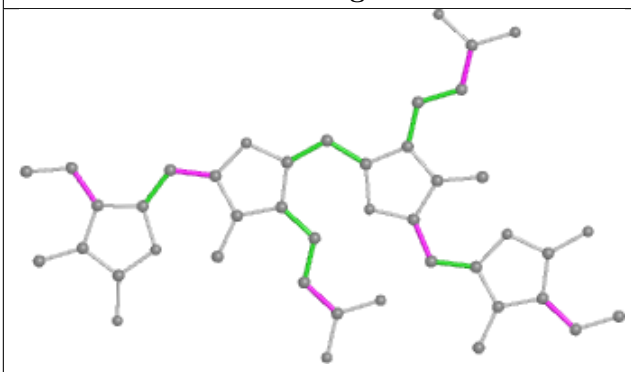
Ligand CYC R7 1001



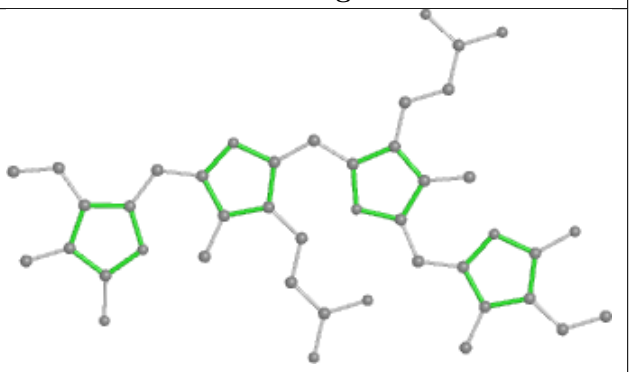
Bond lengths



Bond angles

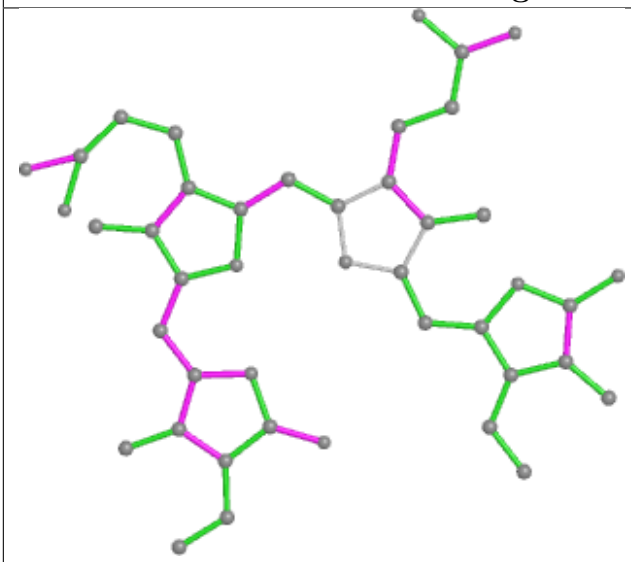


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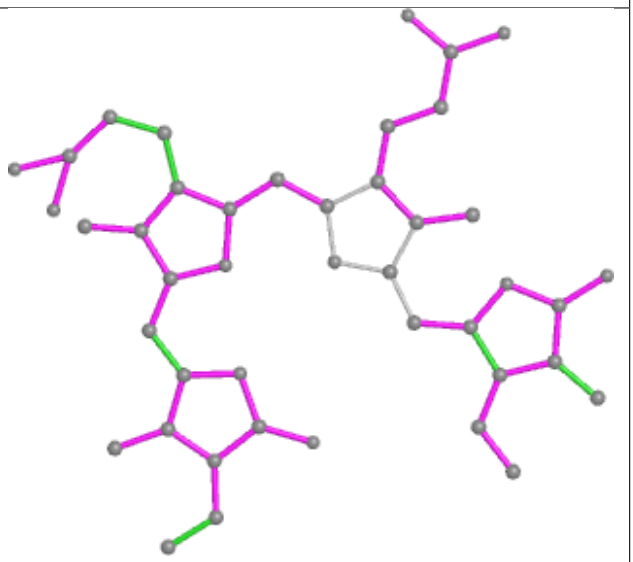


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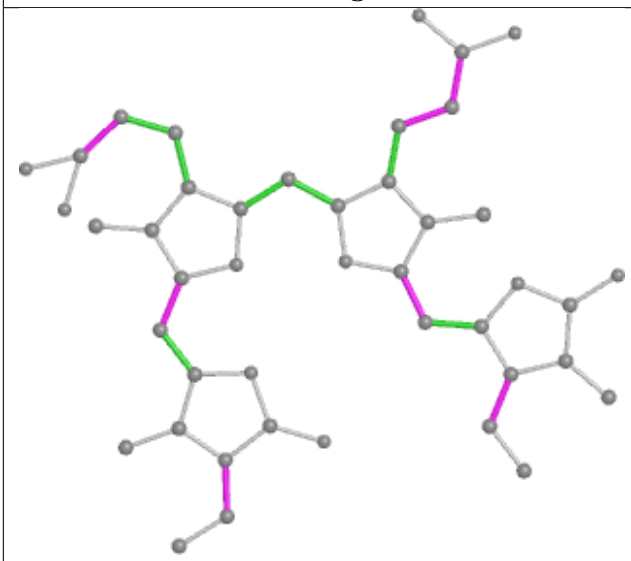
Ligand CYC H5 201



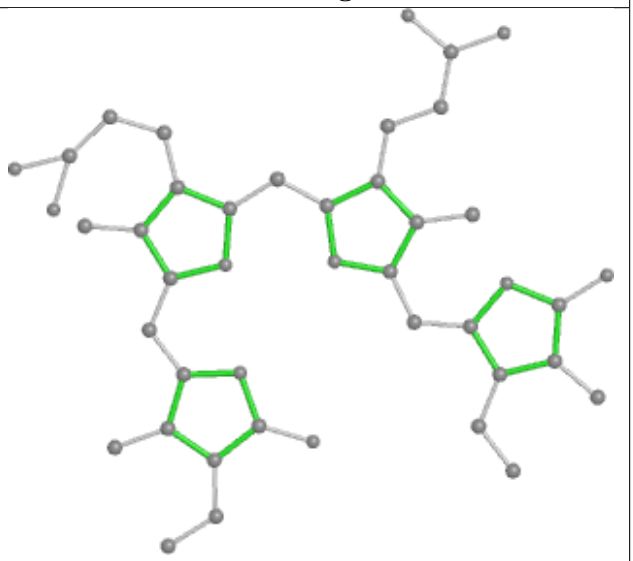
Bond lengths



Bond angles

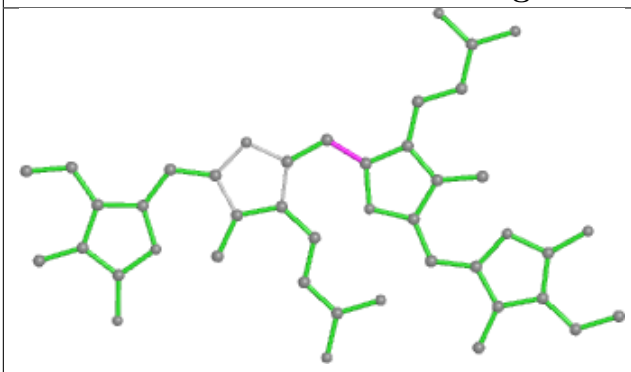


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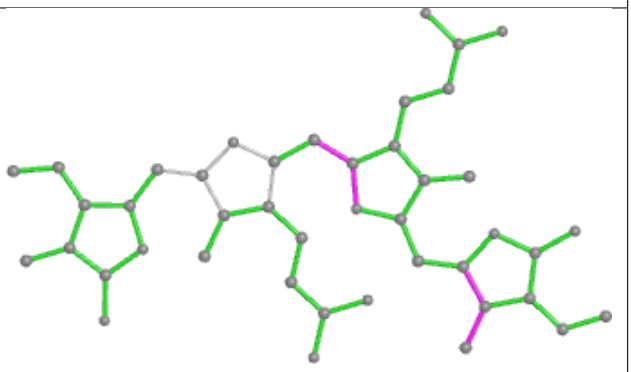


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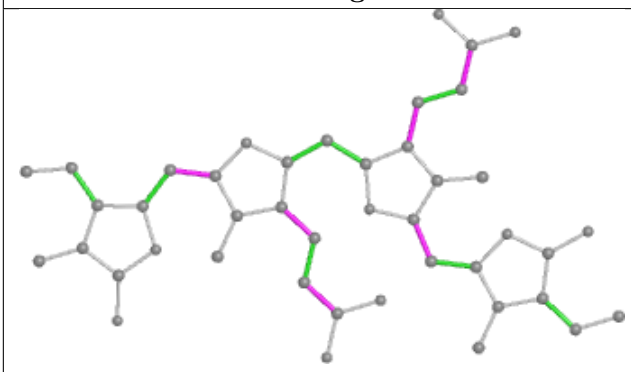
Ligand CYC R6 201



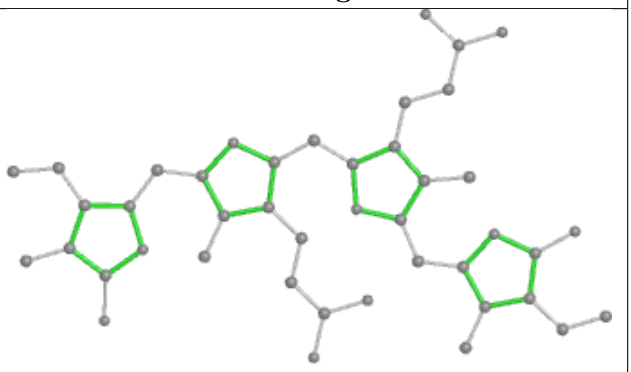
Bond lengths



Bond angles

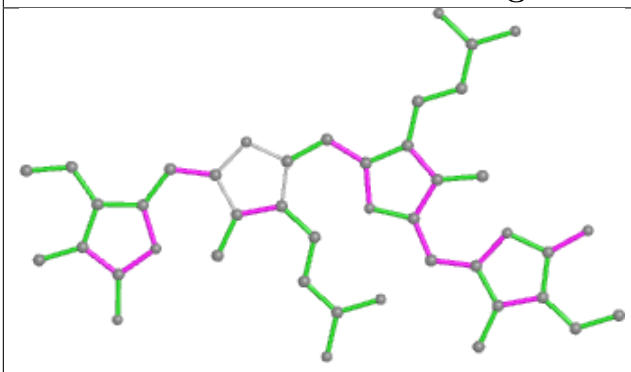


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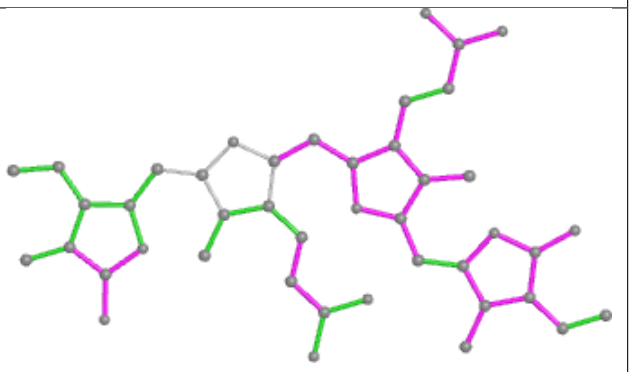


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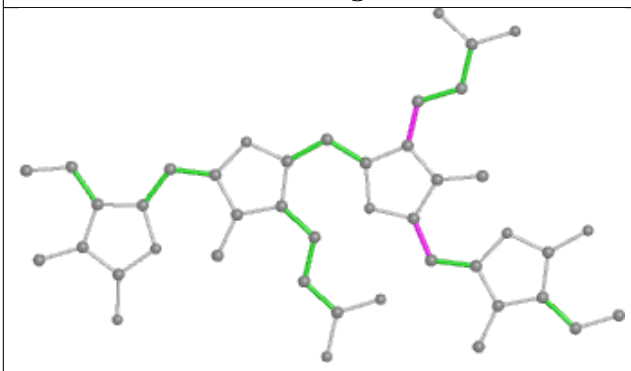
Ligand CYC x3 1001



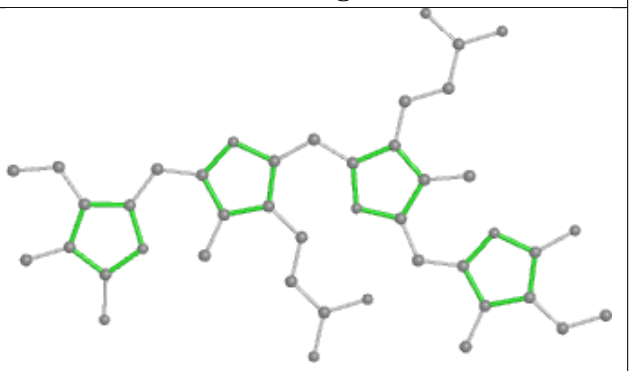
Bond lengths



Bond angles

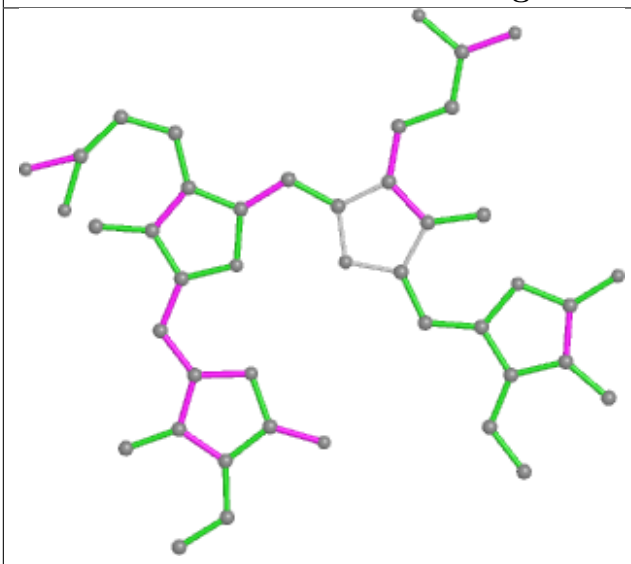


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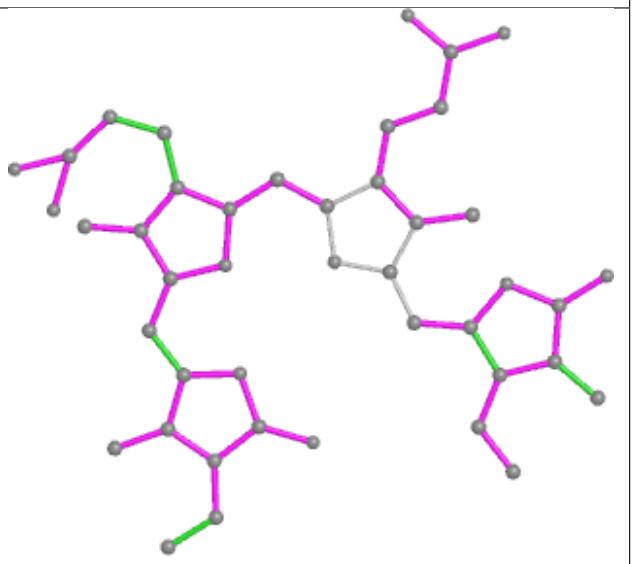


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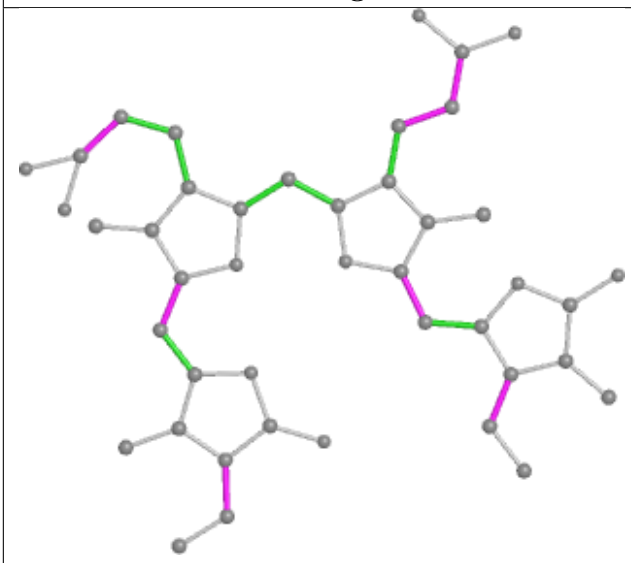
Ligand CYC U1 201



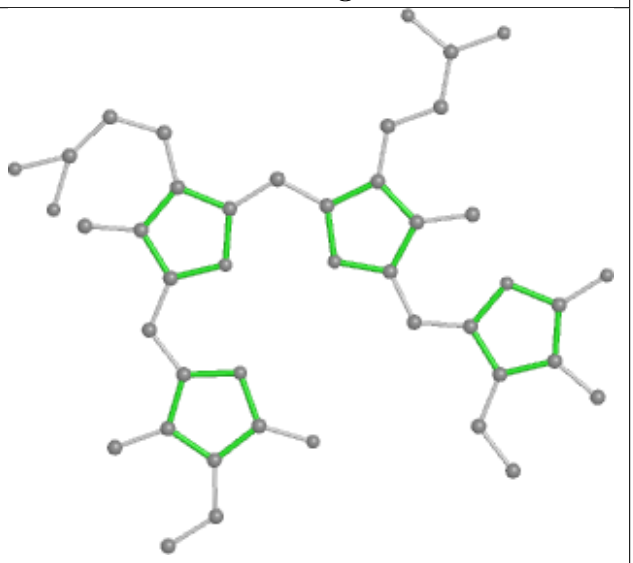
Bond lengths



Bond angles

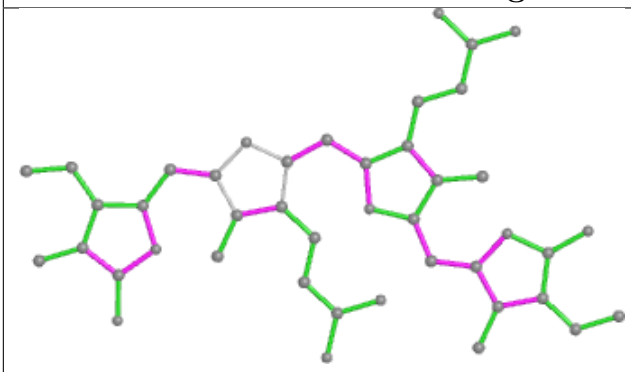


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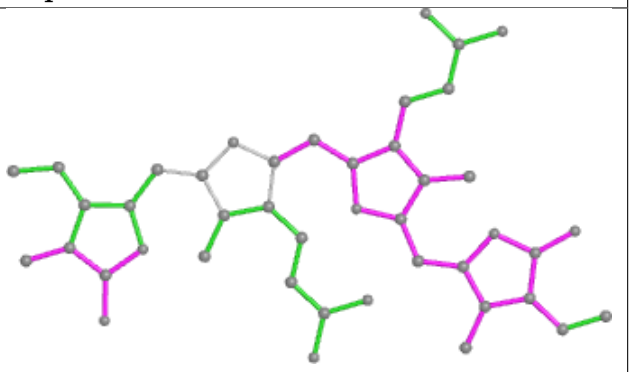


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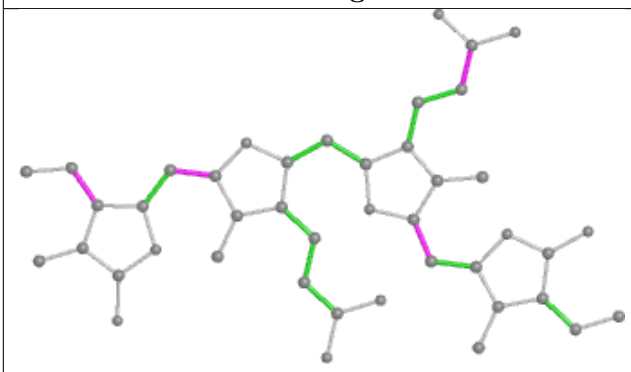
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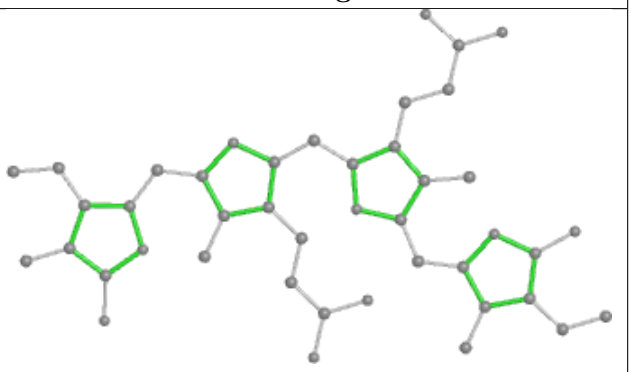
Bond lengths



Bond angles

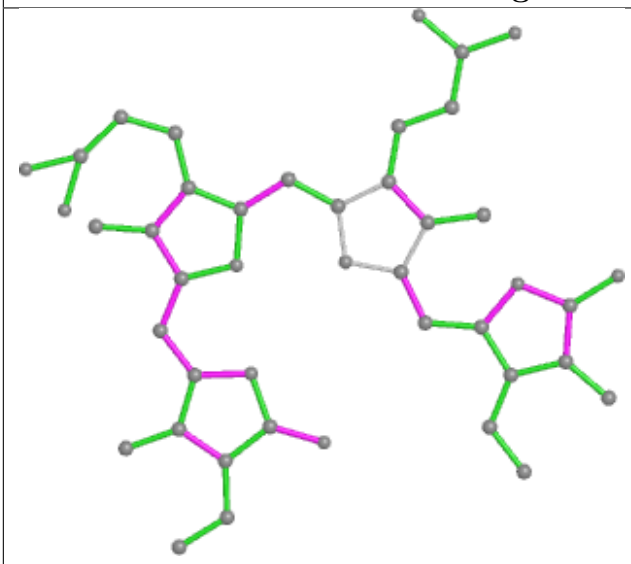


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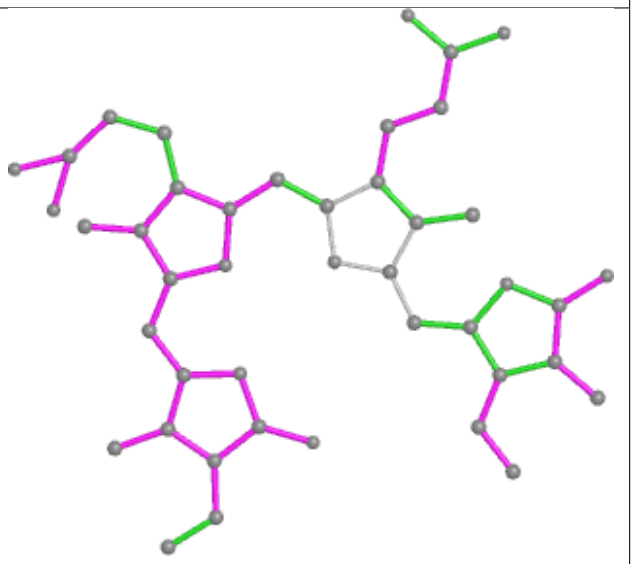


Rings

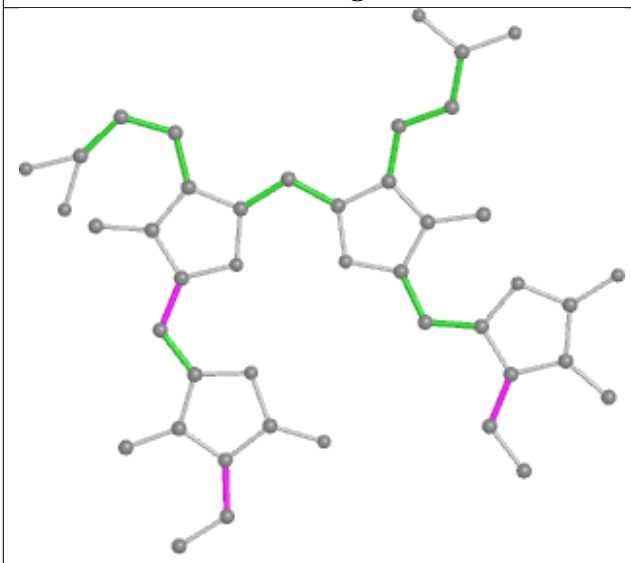
Ligand CYC N2 302



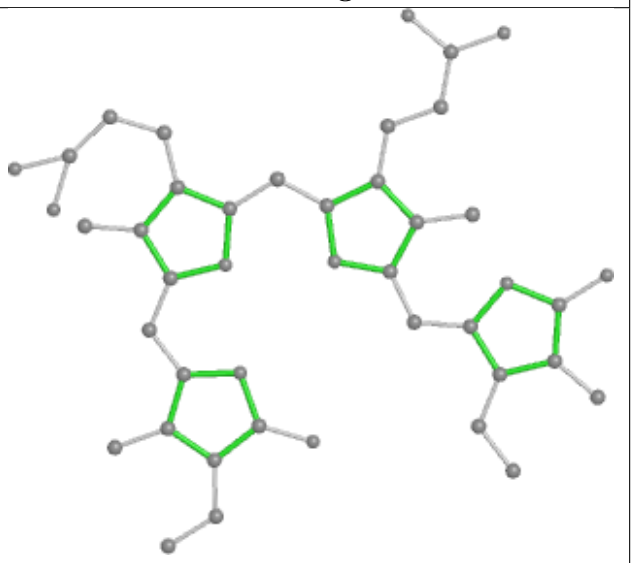
Bond lengths



Bond angles

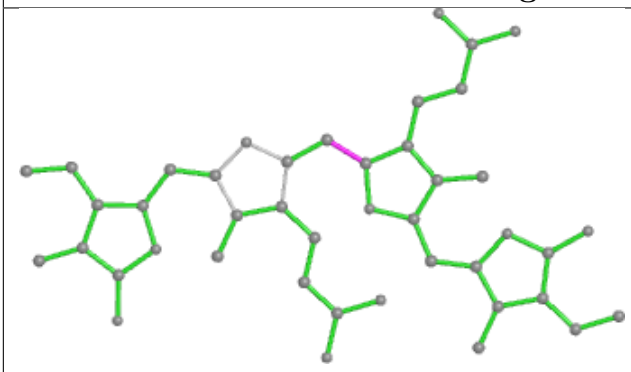


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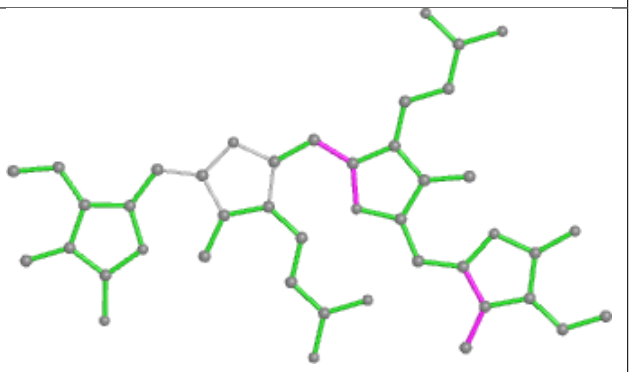


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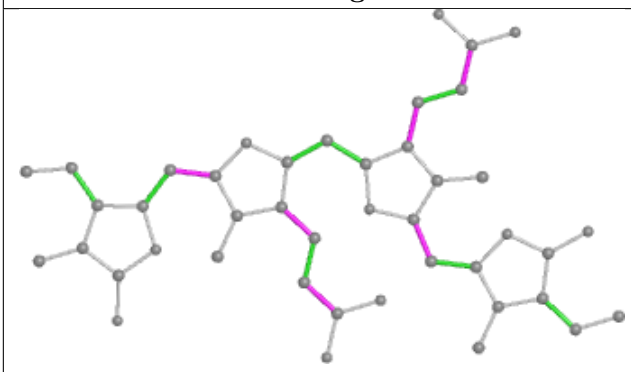
Ligand CYC I8 202



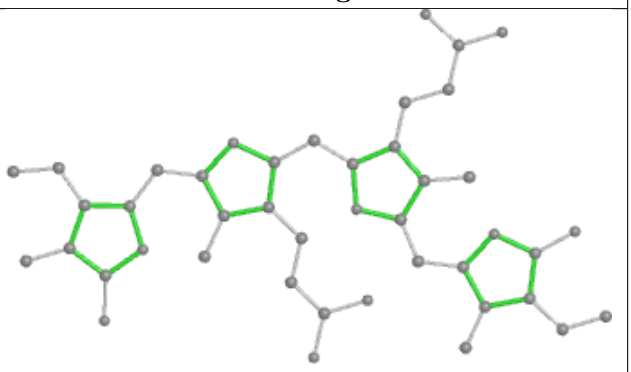
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Bond angles

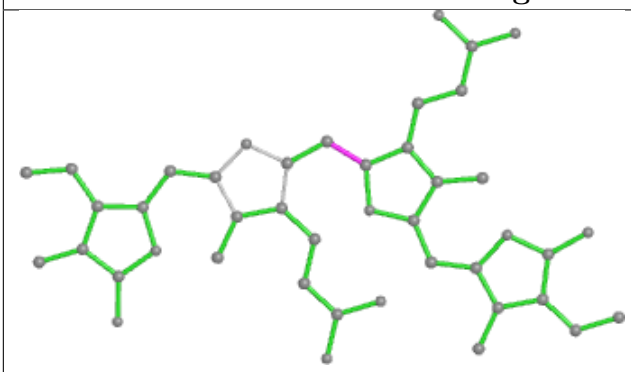


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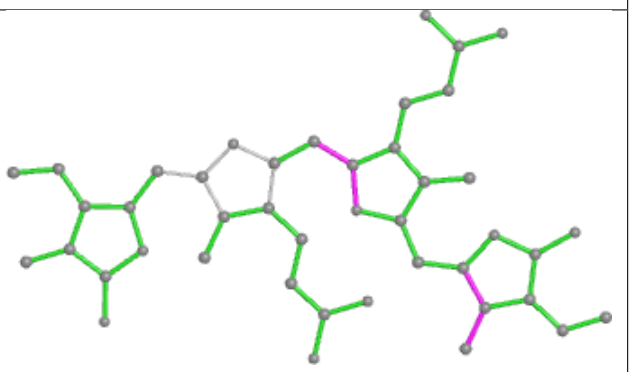


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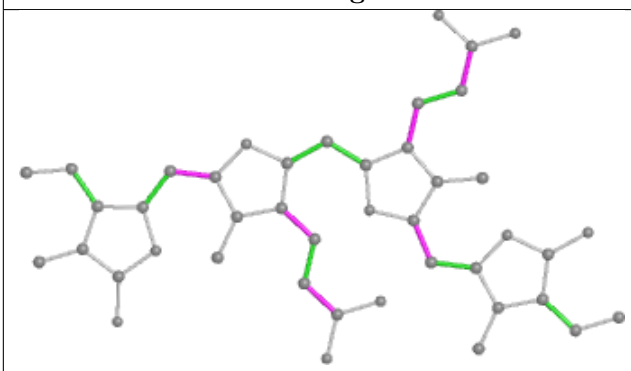
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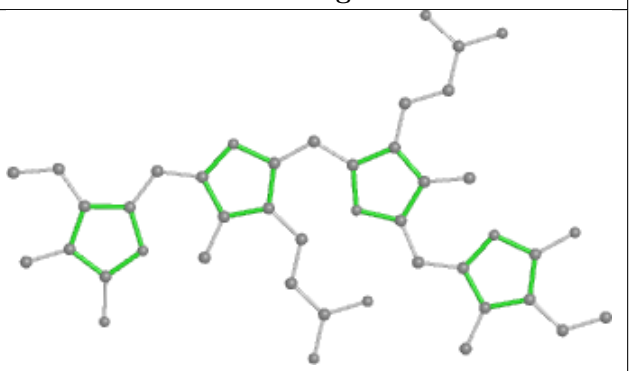
Bond lengths



Bond angles

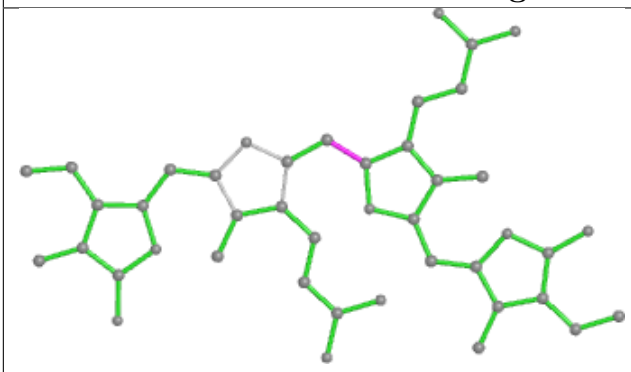


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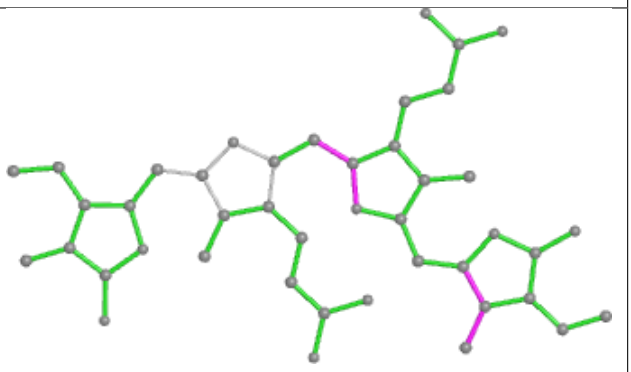


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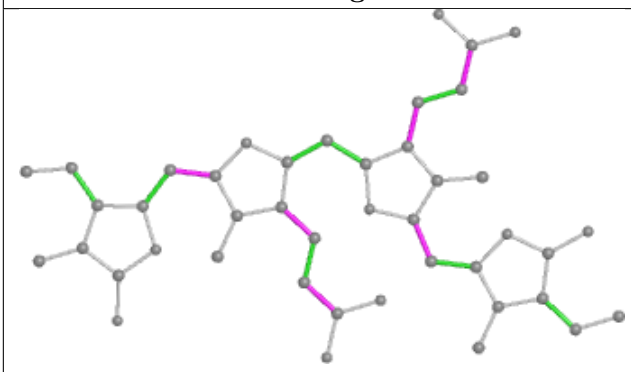
Ligand CYC M6 202



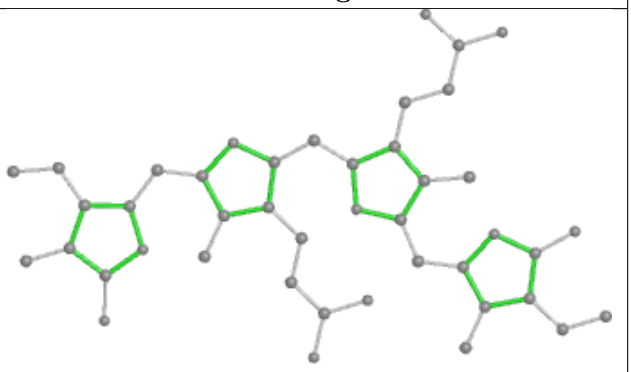
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Bond angles

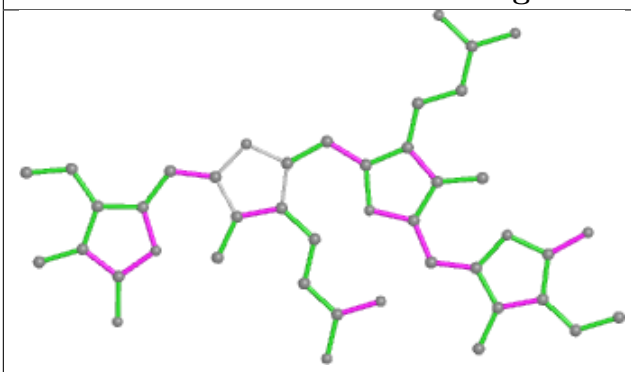


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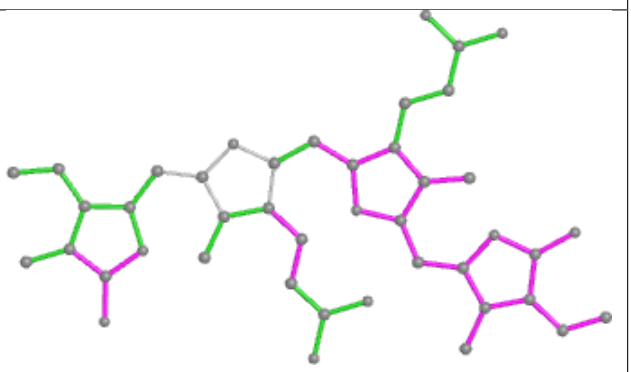


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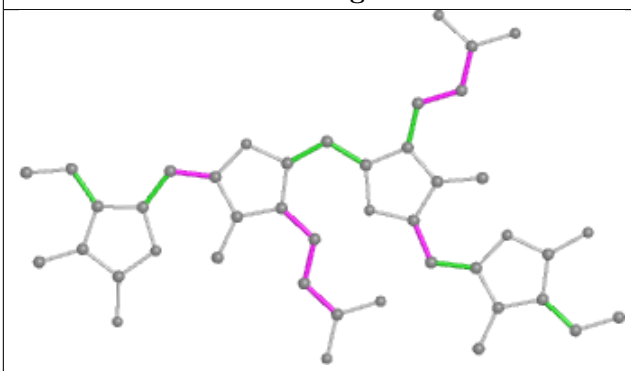
Ligand CYC R1 202



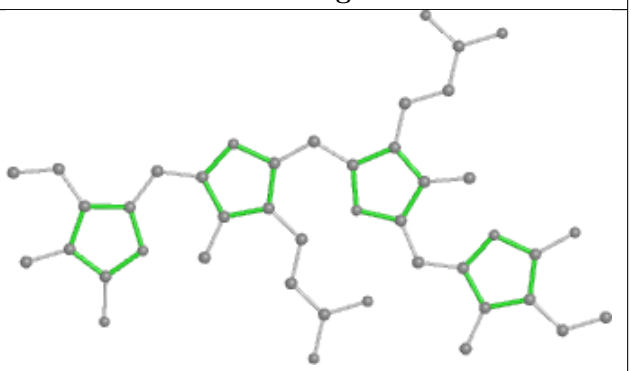
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Bond angles

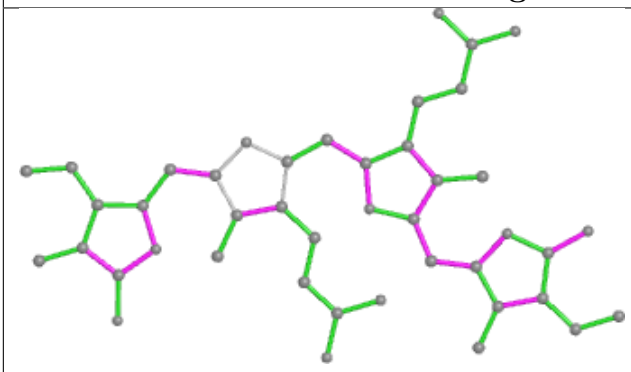


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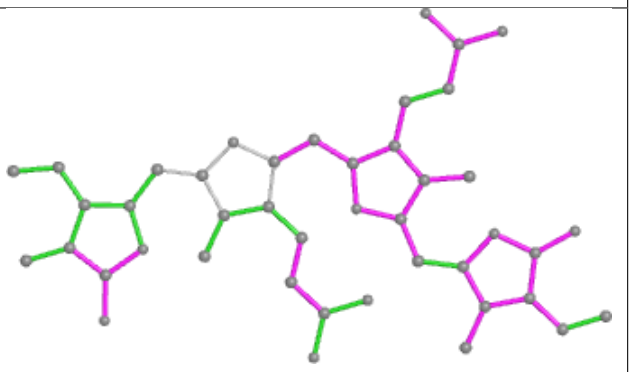


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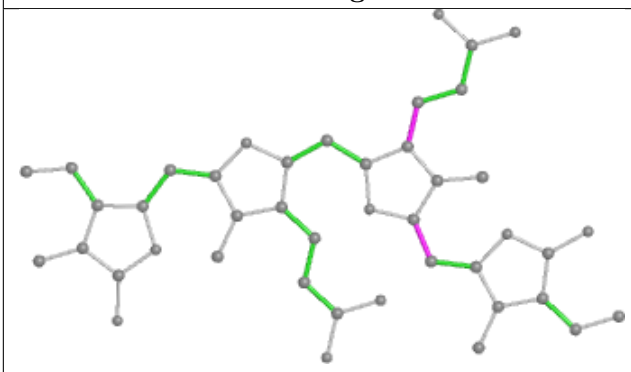
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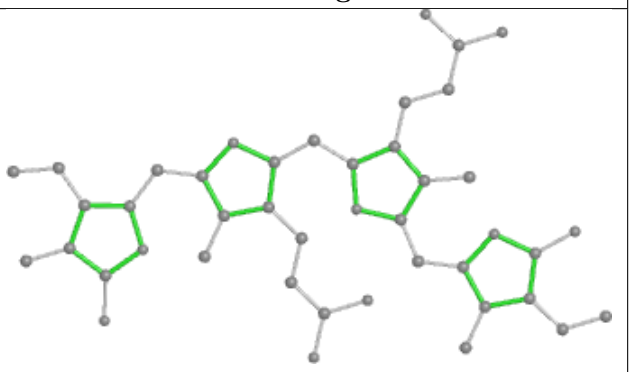
Bond lengths



Bond angles

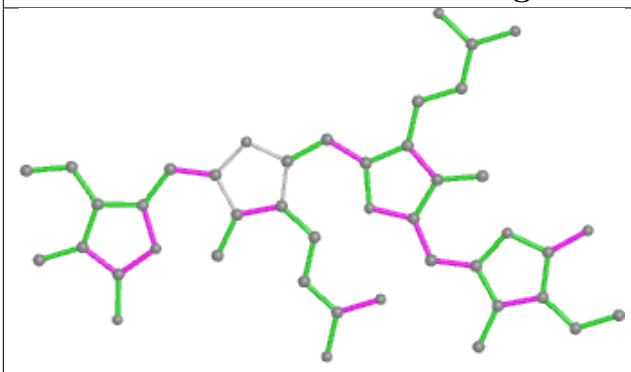


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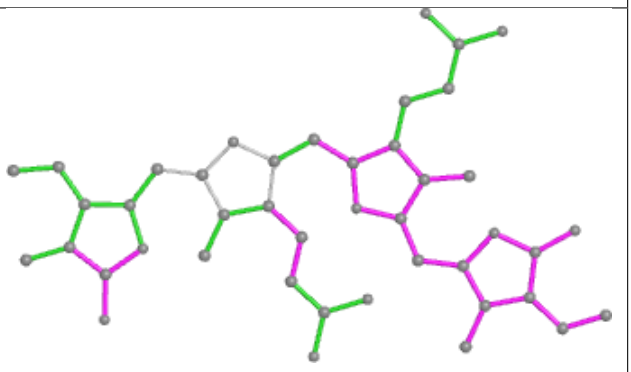


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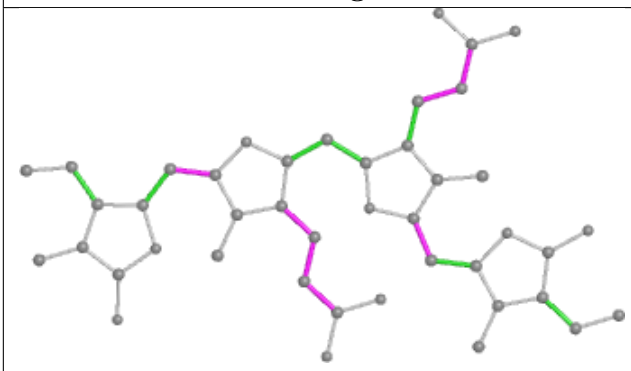
Ligand CYC C1 201



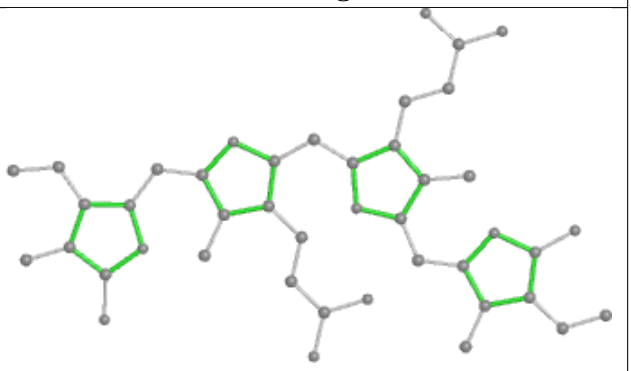
Bond lengths



Bond angles

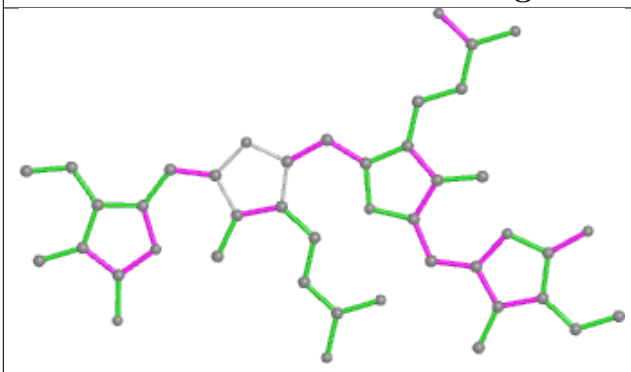


Torsions

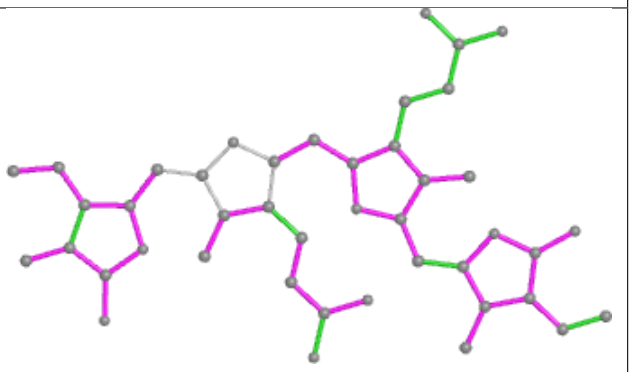


Rings

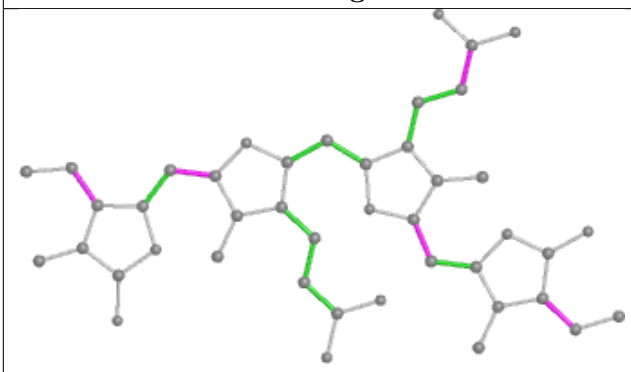
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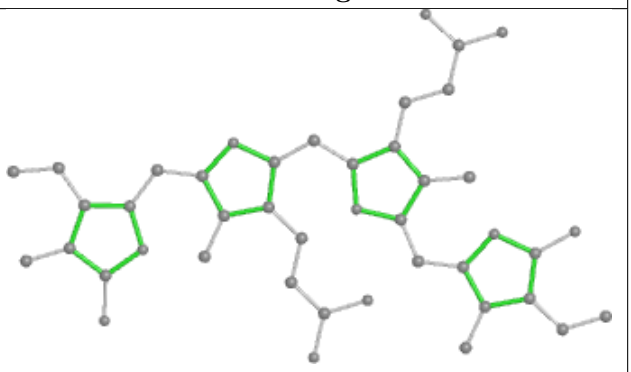
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Bond angles

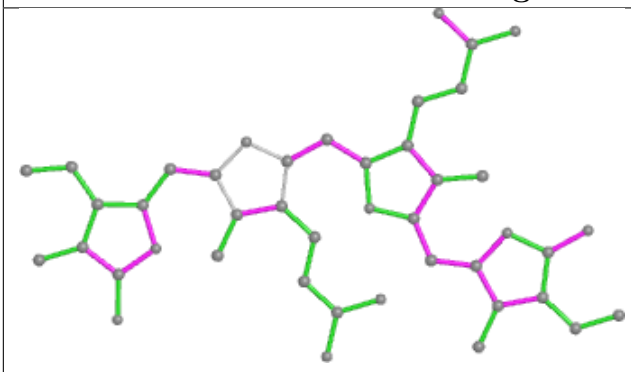


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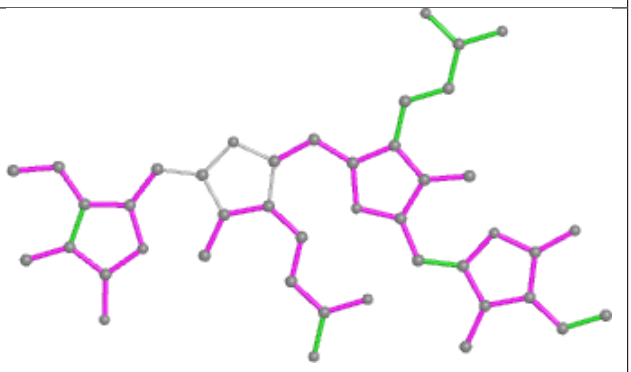


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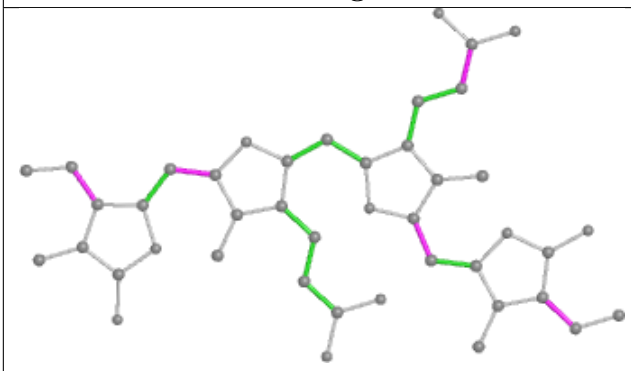
Ligand CYC A8 301



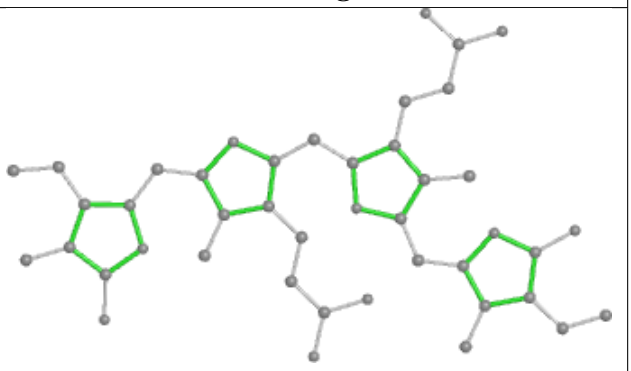
Bond lengths



Bond angles

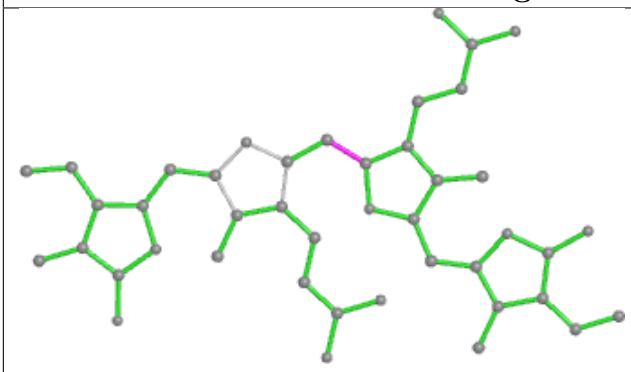


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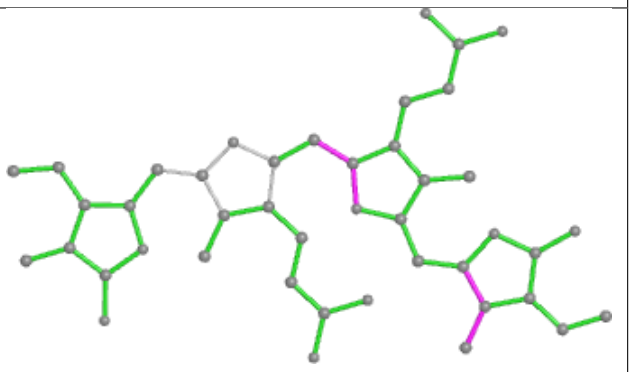


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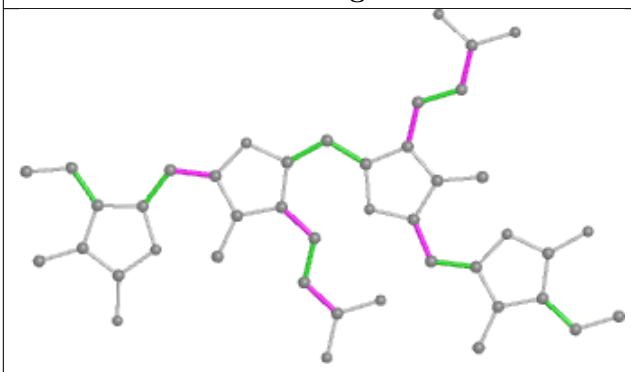
Ligand CYC P8 202



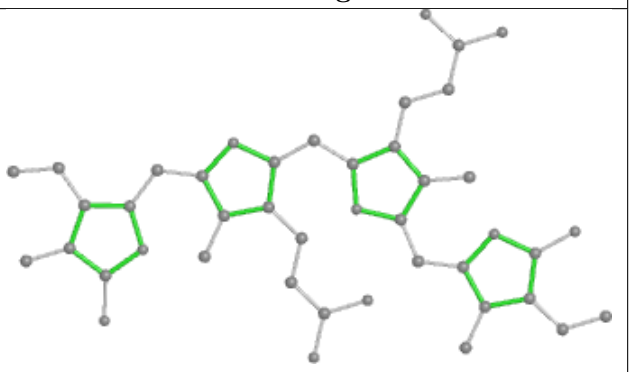
Bond lengths



Bond angles

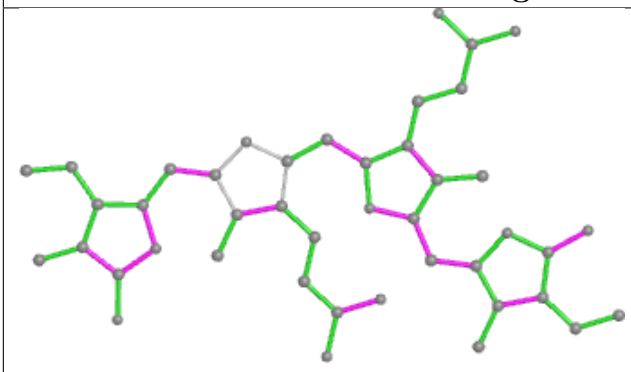


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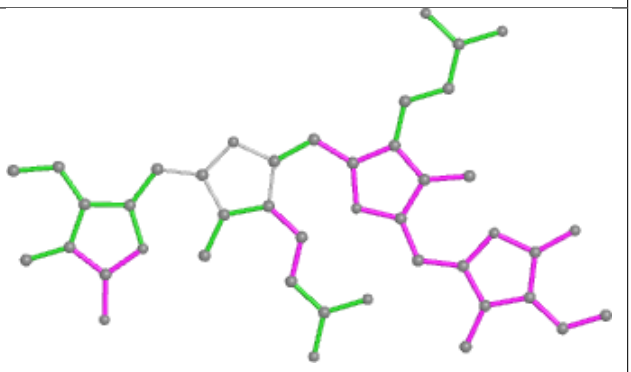


Rings

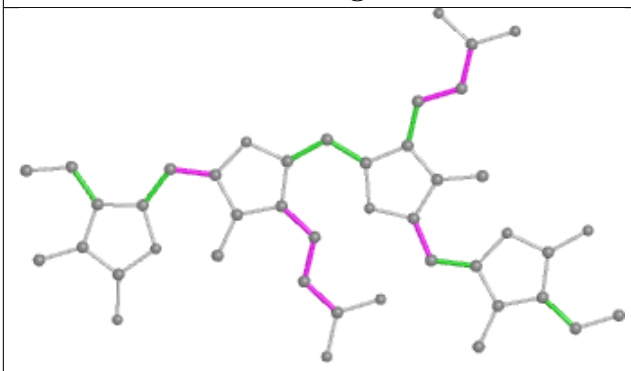
Ligand CYC D5 201



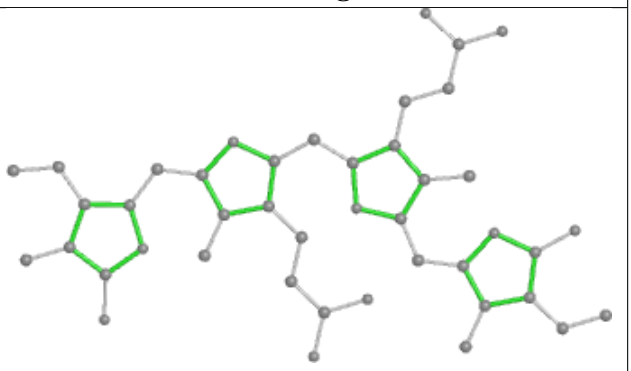
Bond lengths



Bond angles

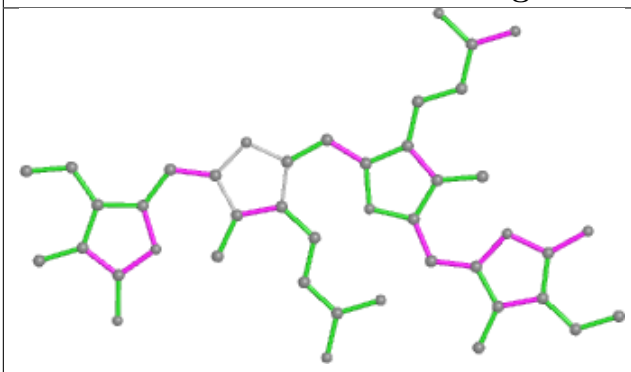


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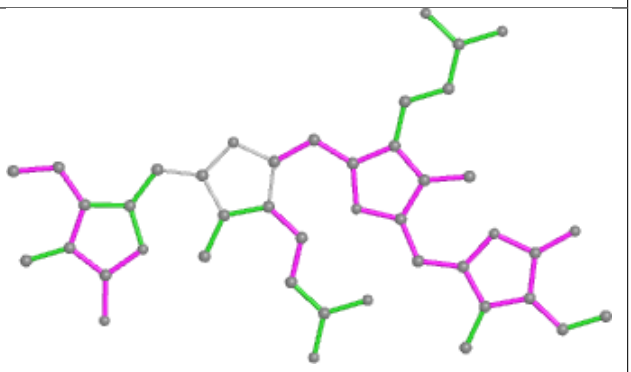


Rings

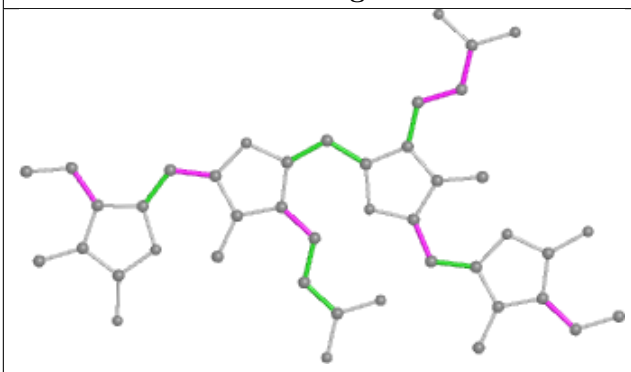
Ligand CYC G4 201



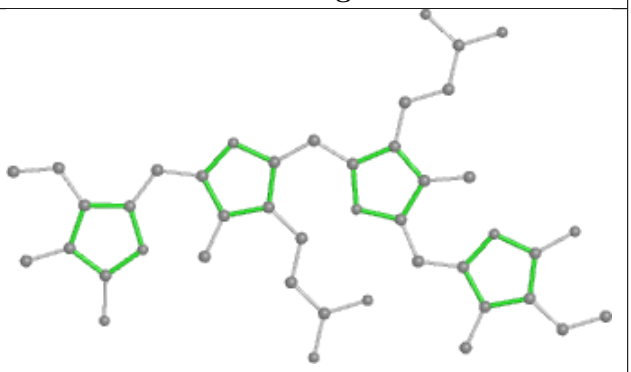
Bond lengths



Bond angles

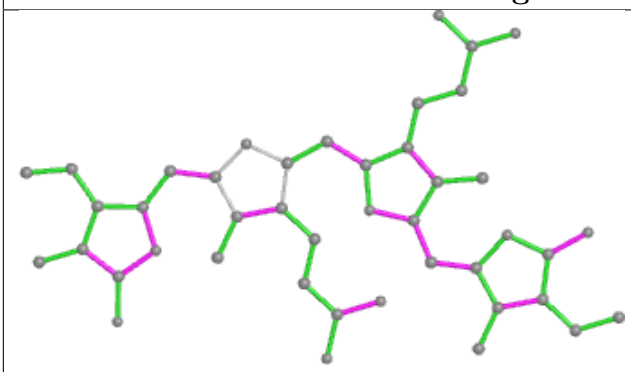


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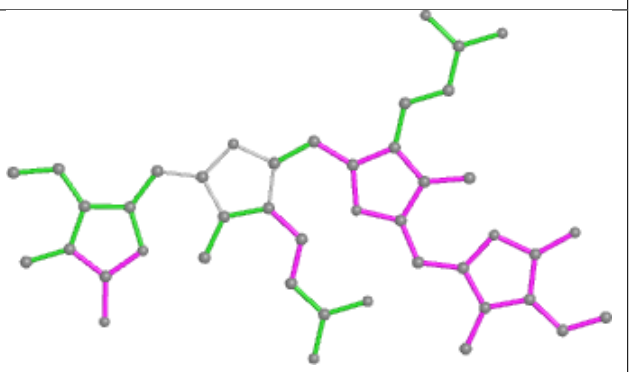


Rings

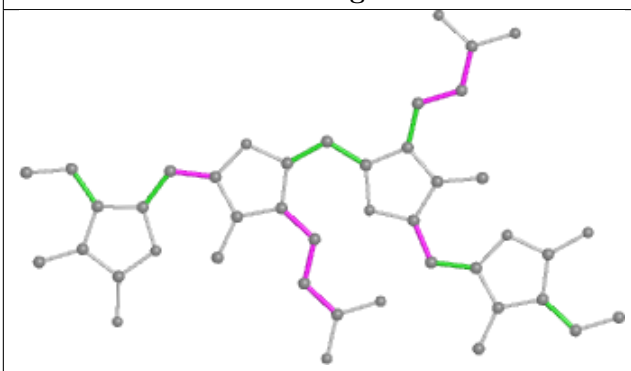
Ligand CYC K1 202



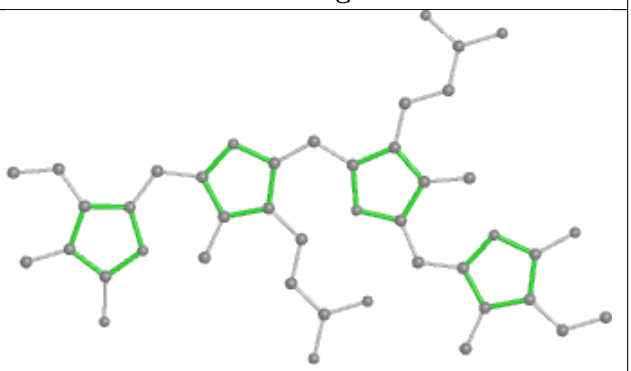
Bond lengths



Bond angles

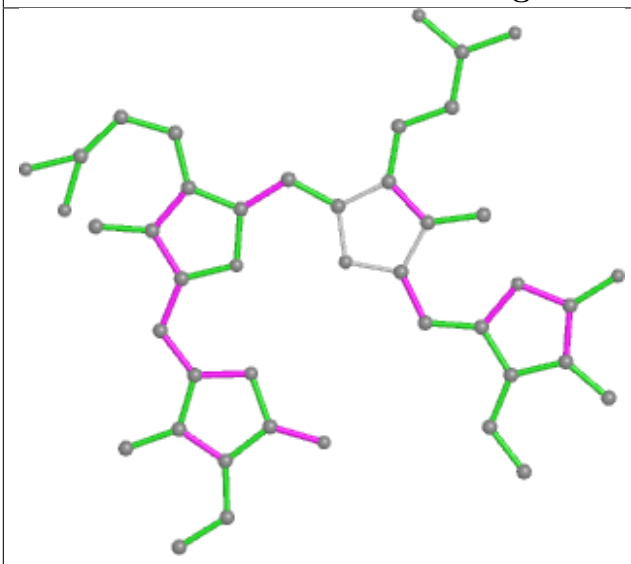


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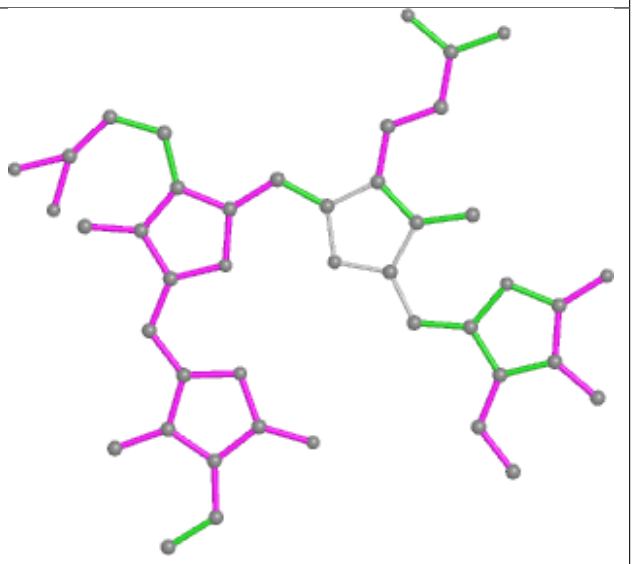


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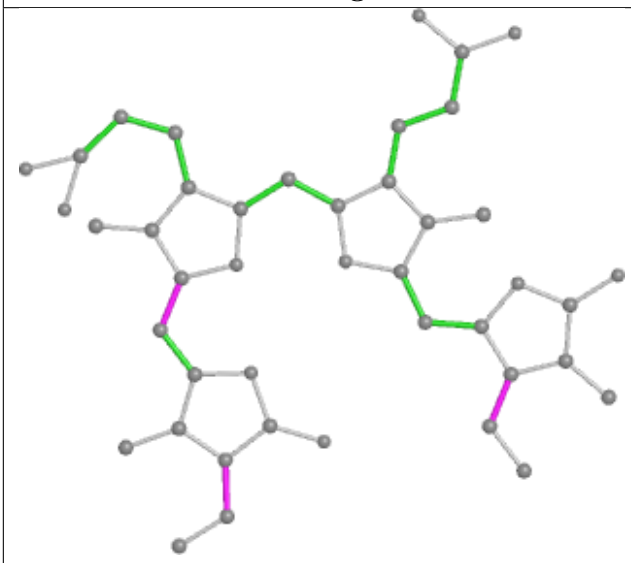
Ligand CYC X6 201



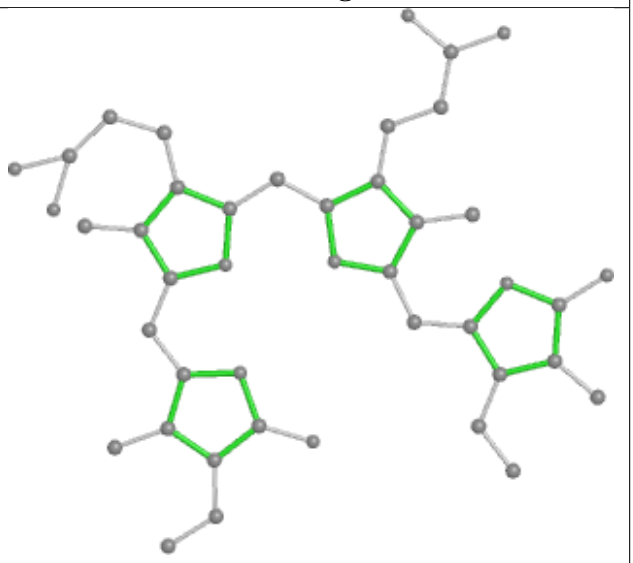
Bond lengths



Bond angles

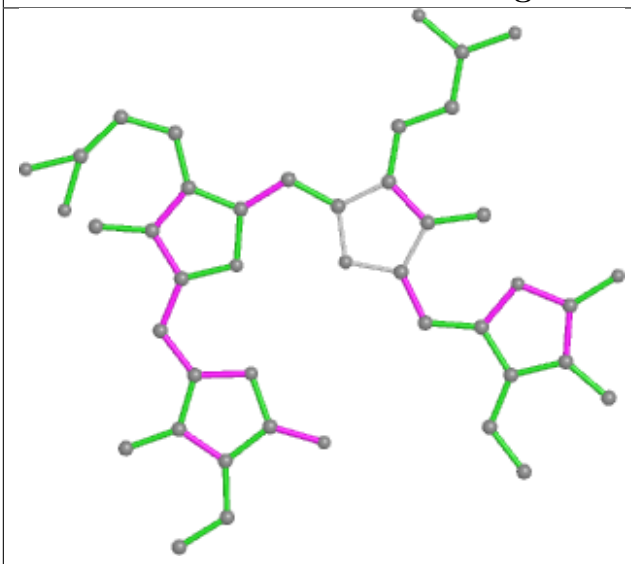


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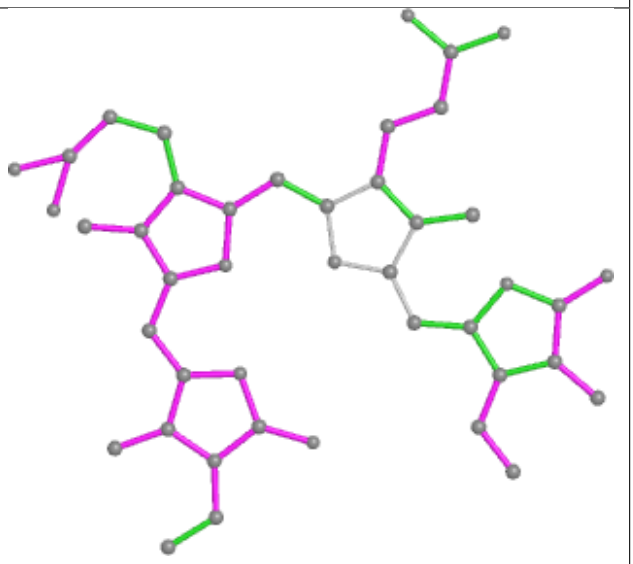


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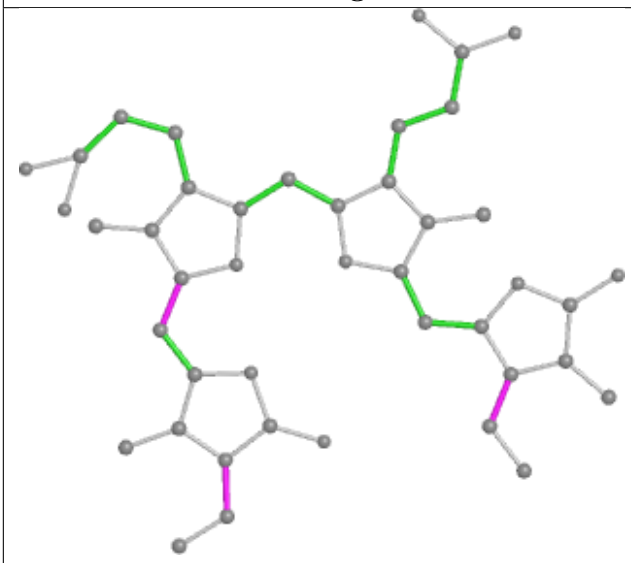
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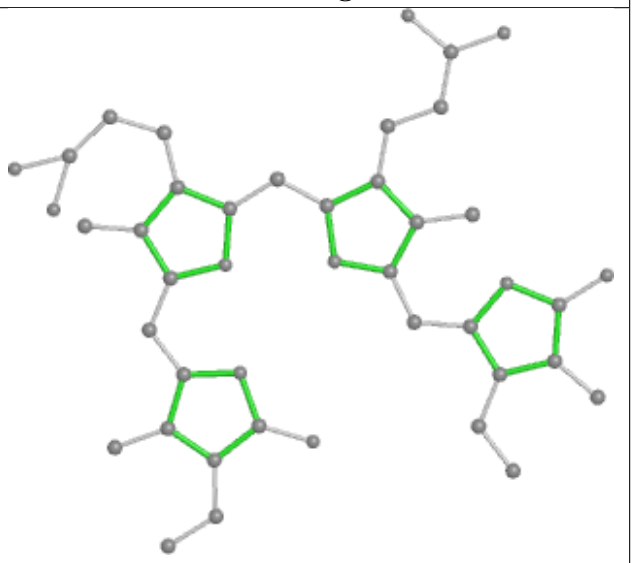
Bond lengths



Bond angles

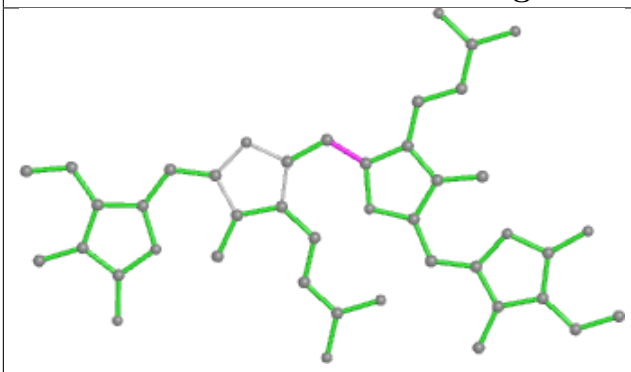


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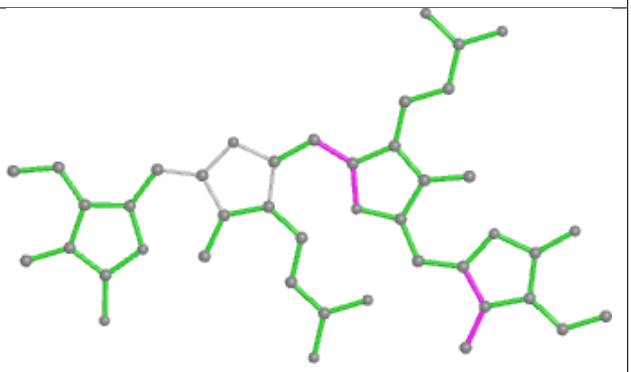


Rings

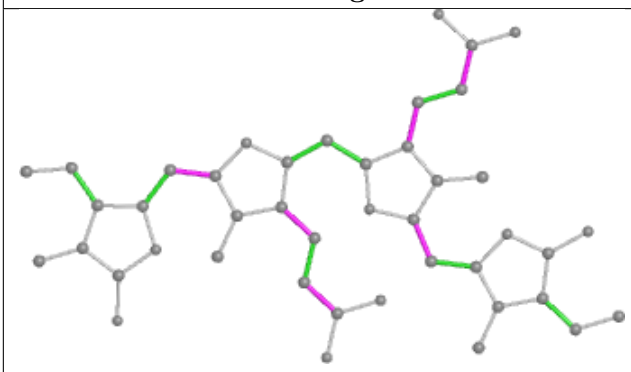
Ligand CYC C2 202



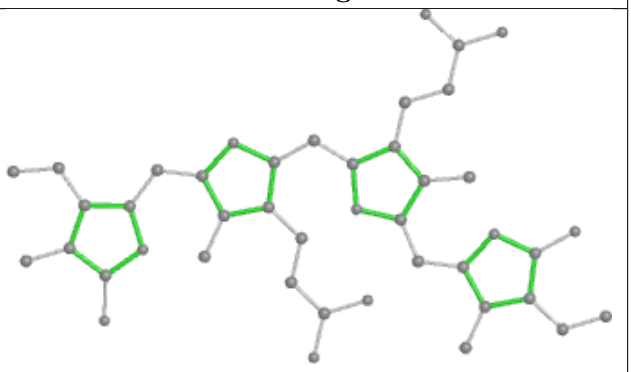
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Bond angles

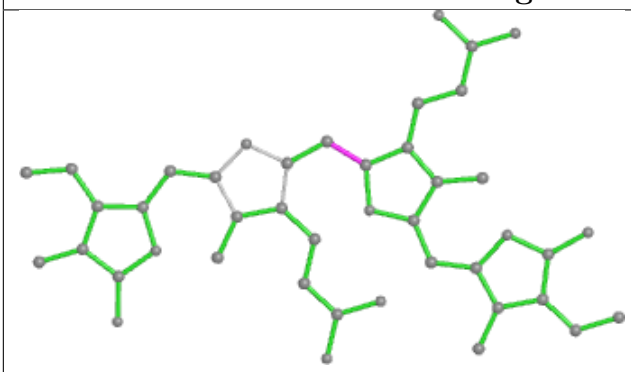


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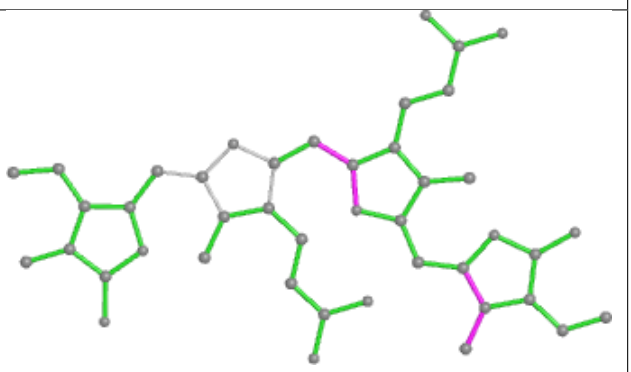


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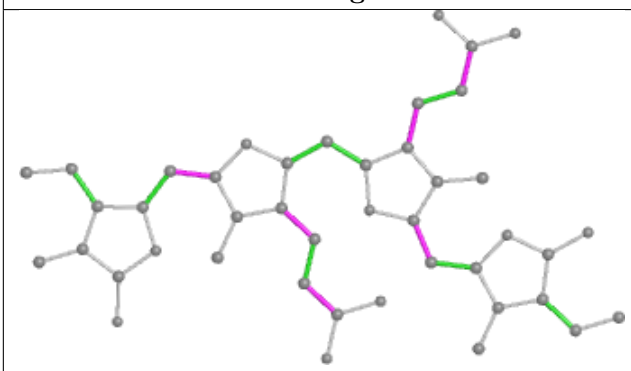
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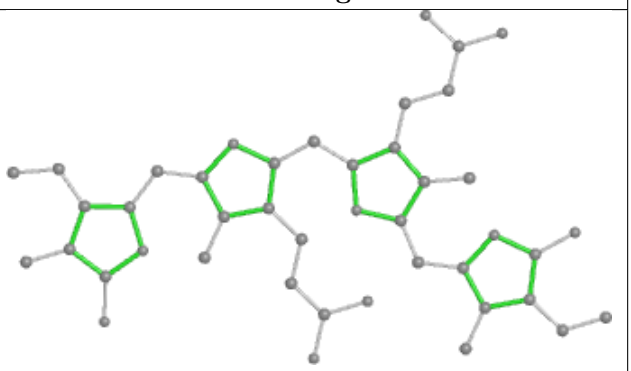
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Bond angles

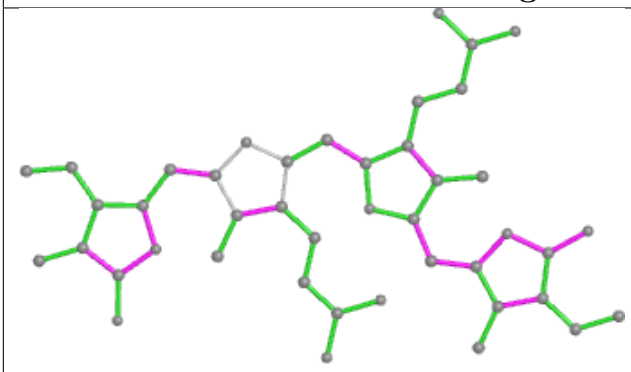


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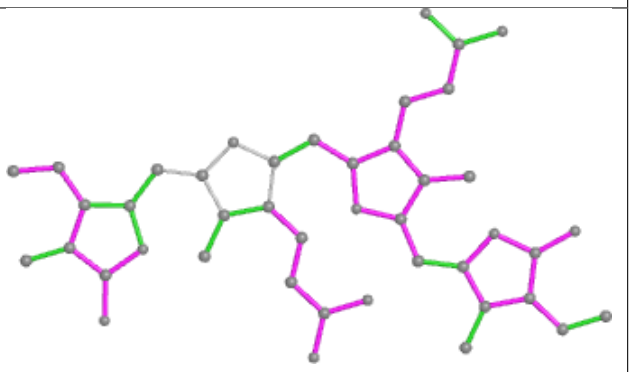


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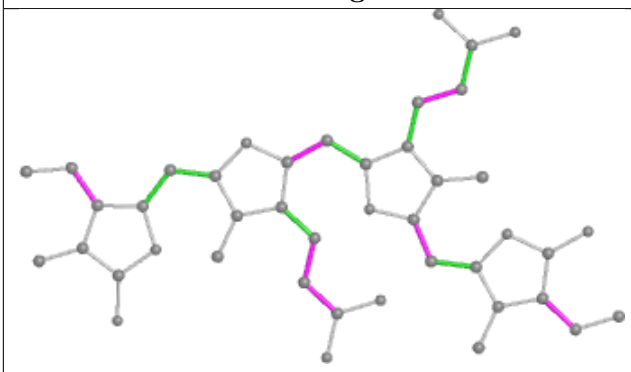
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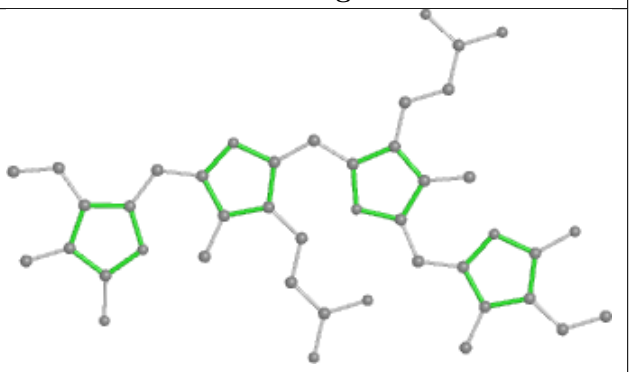
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Bond angles

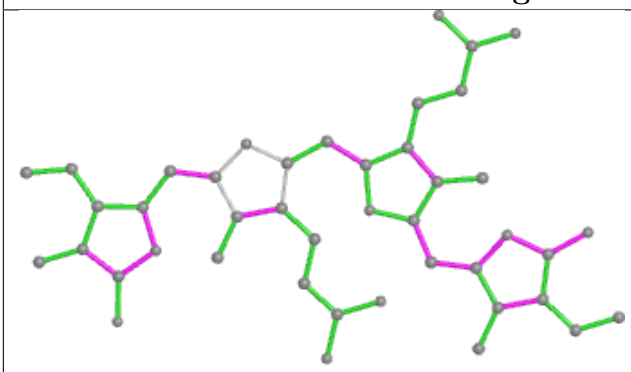


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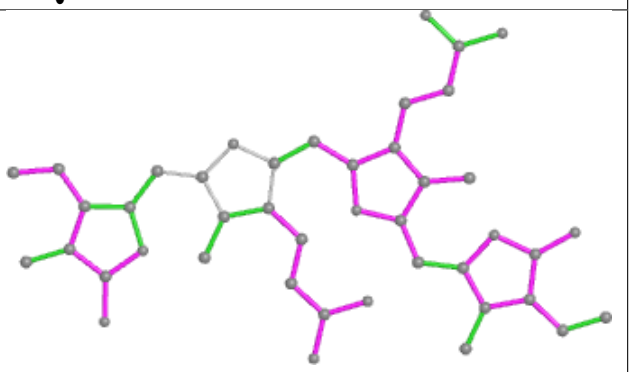


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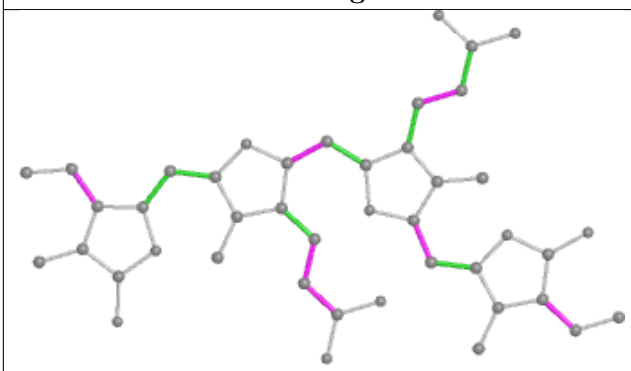
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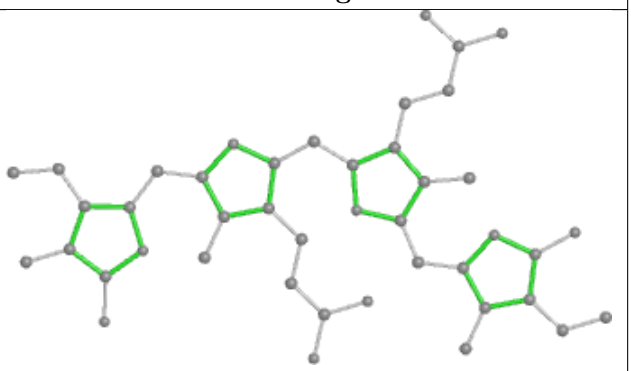
Bond lengths



Bond angles

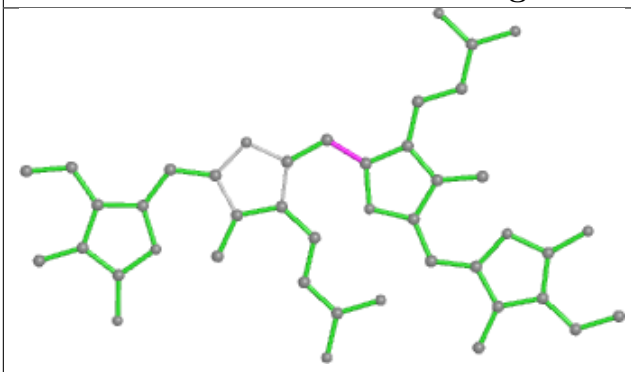


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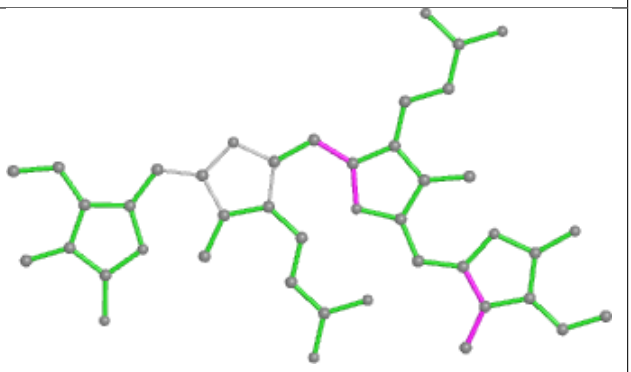


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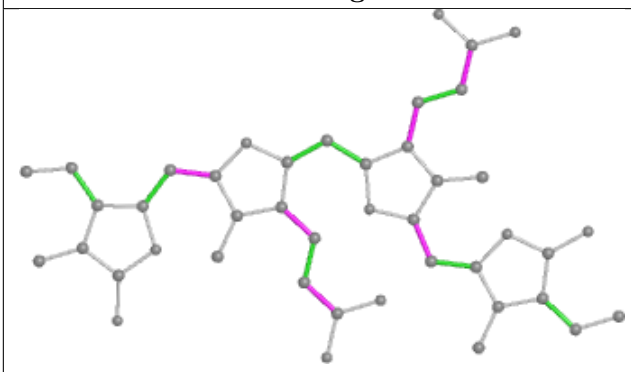
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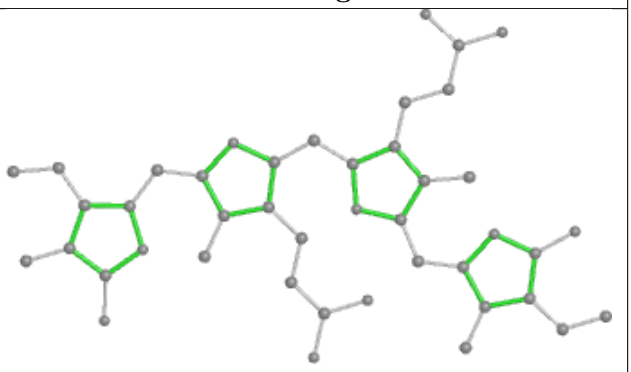
Bond lengths



Bond angles

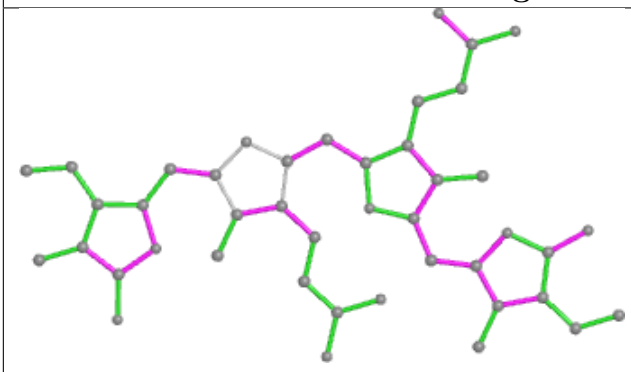


Torsions

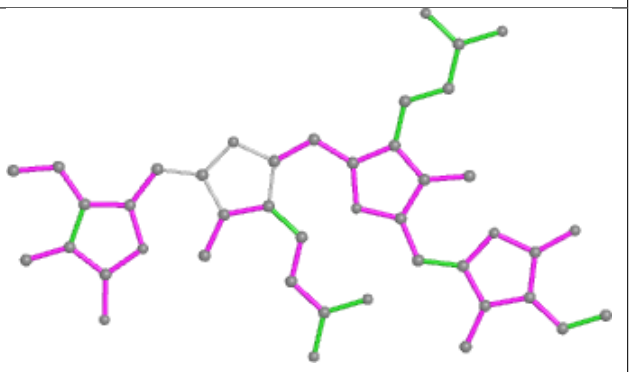


Rings

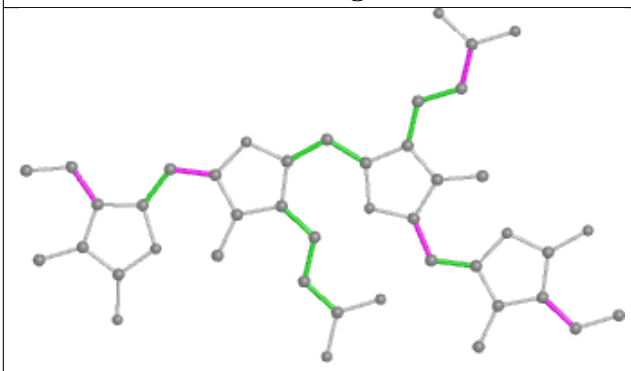
Ligand CYC V8 201



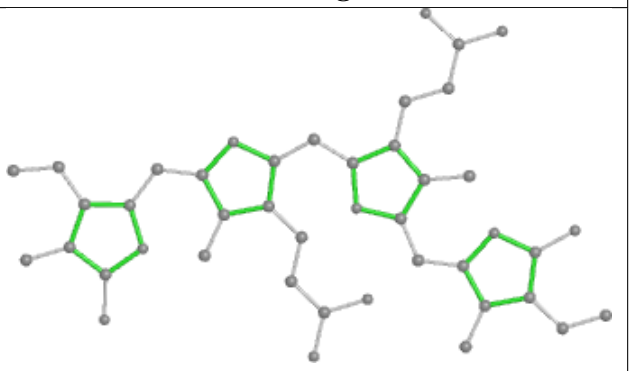
Bond lengths



Bond angles

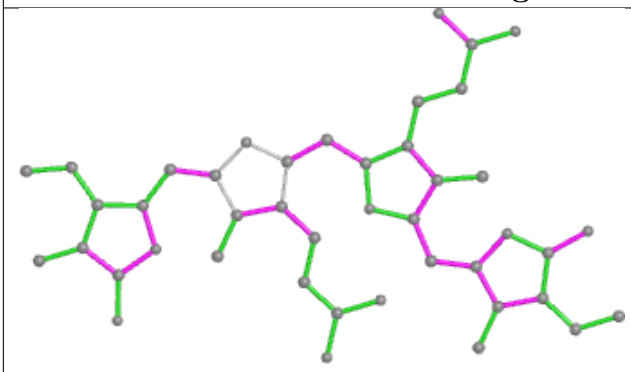


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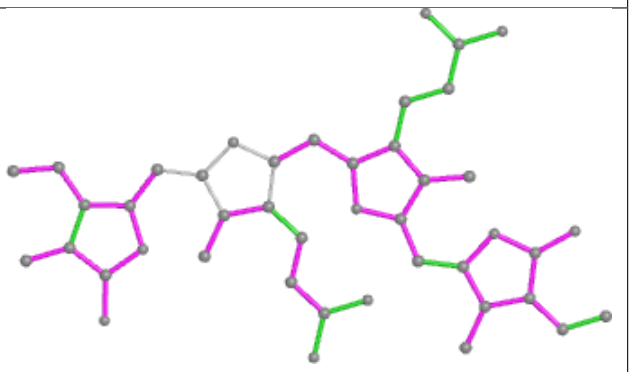


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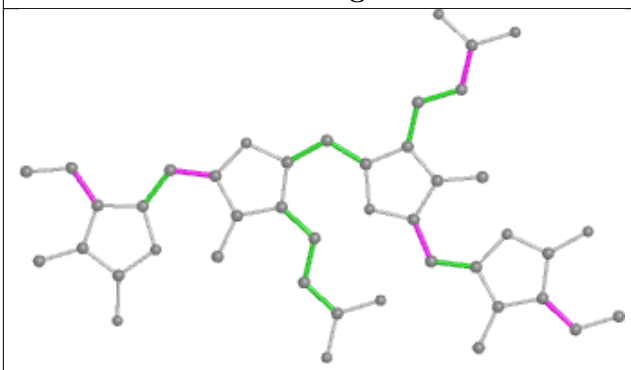
Ligand CYC N4 301



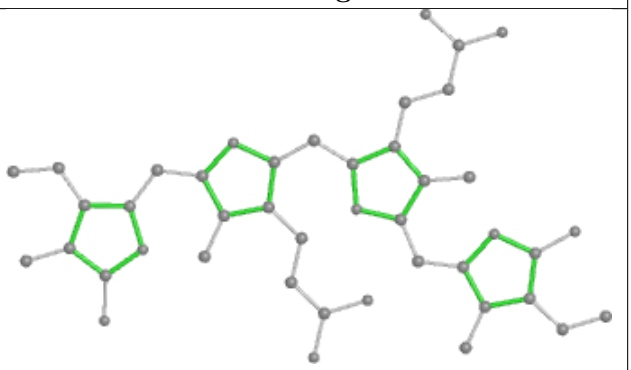
Bond lengths



Bond angles

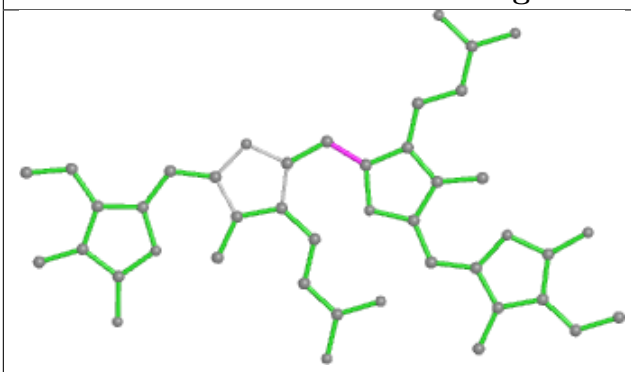


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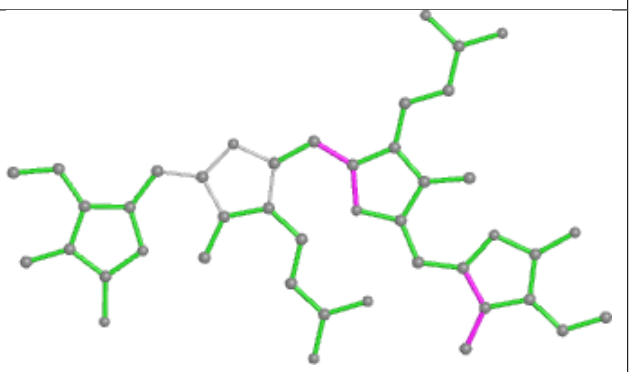


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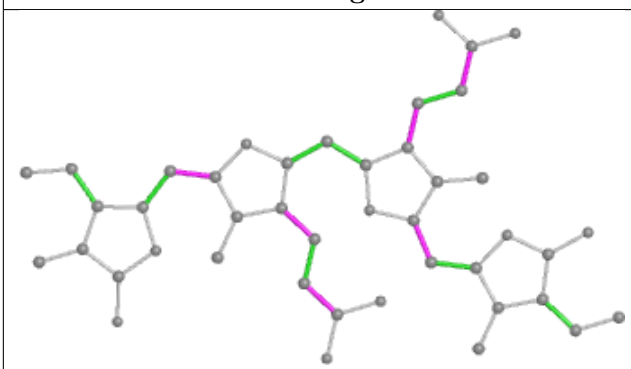
Ligand CYC V4 202



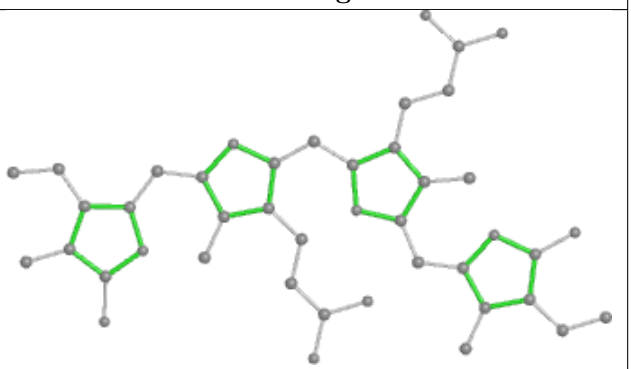
Bond lengths



Bond angles

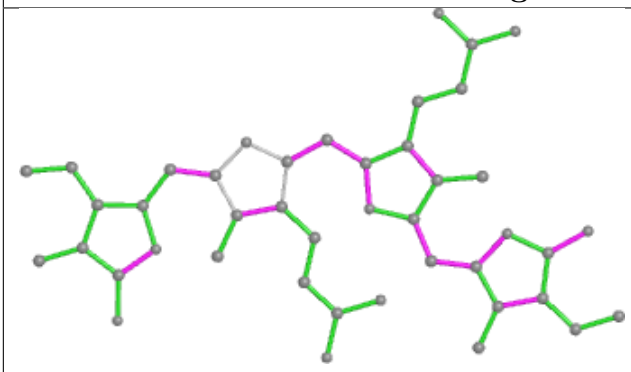


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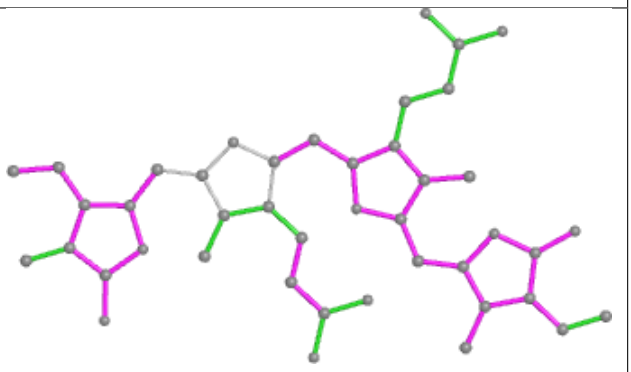


Rings

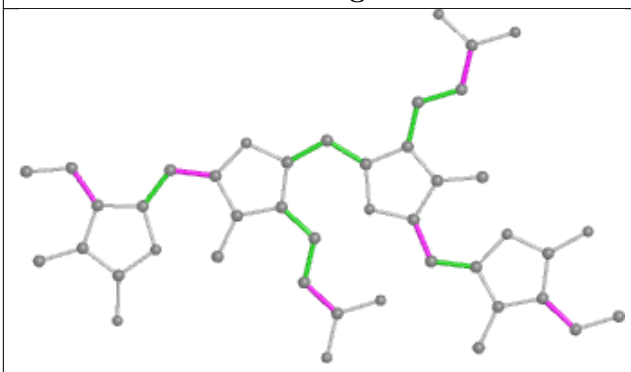
Ligand CYC I7 1001



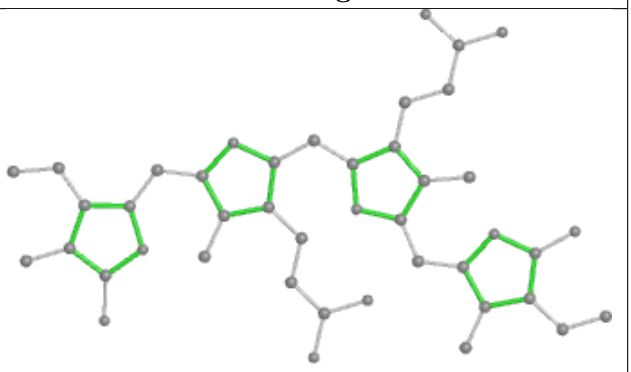
Bond lengths



Bond angles

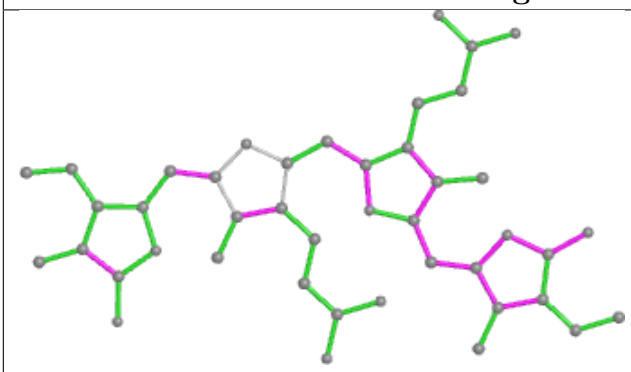


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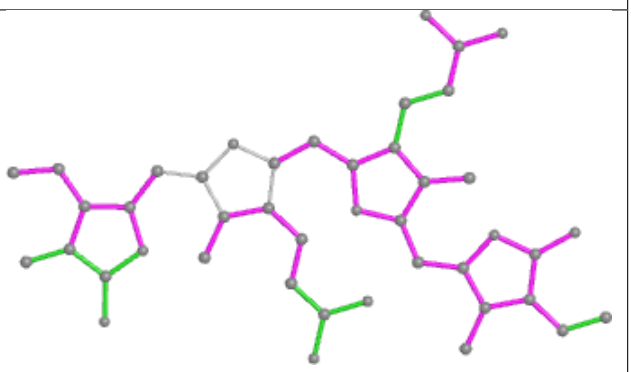


Rings

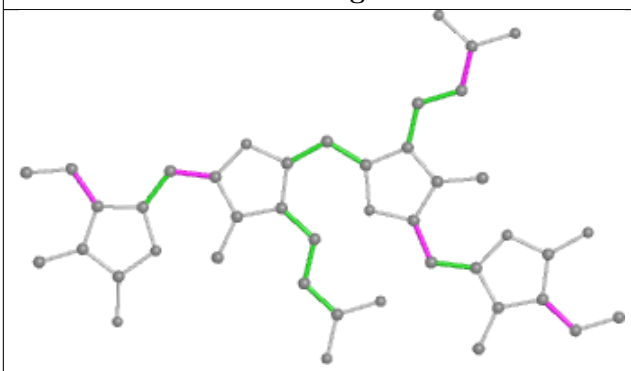
Ligand CYC X1 201



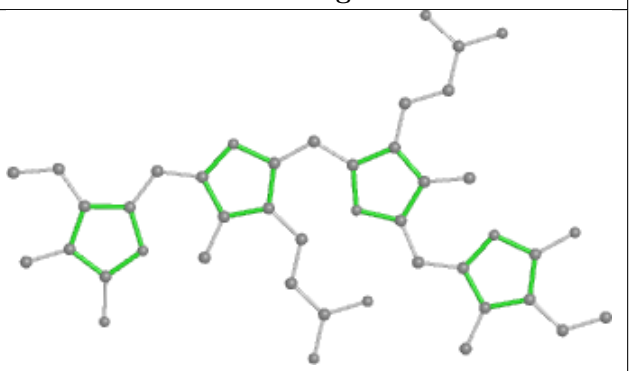
Bond lengths



Bond angles

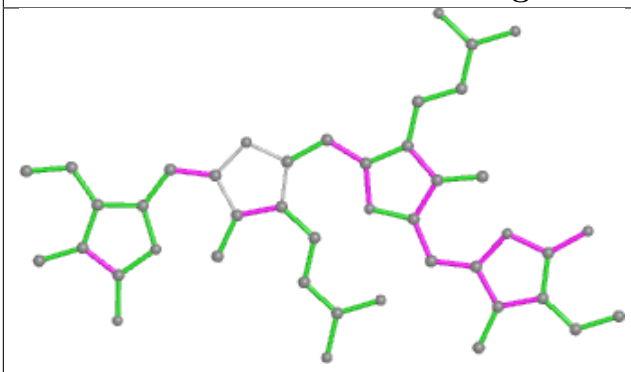


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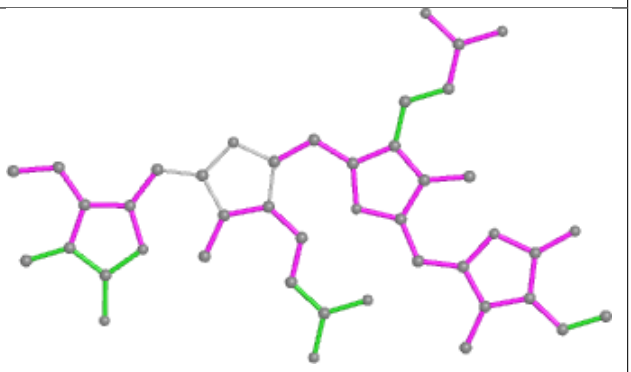


Rings

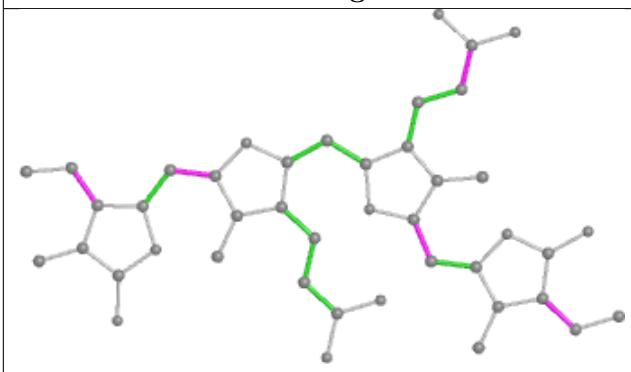
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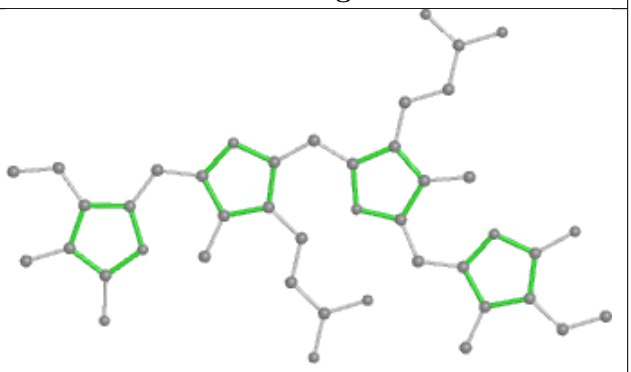
Bond lengths



Bond angles

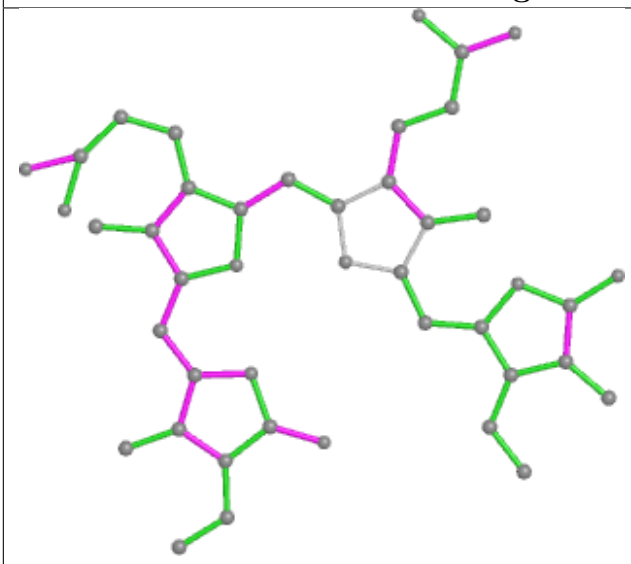


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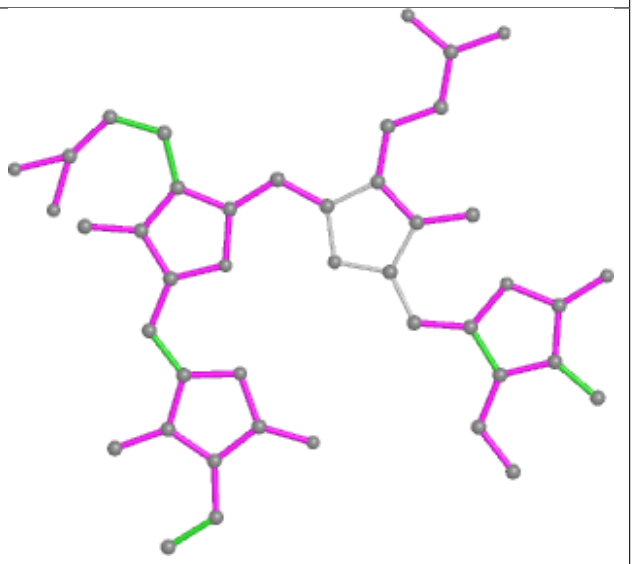


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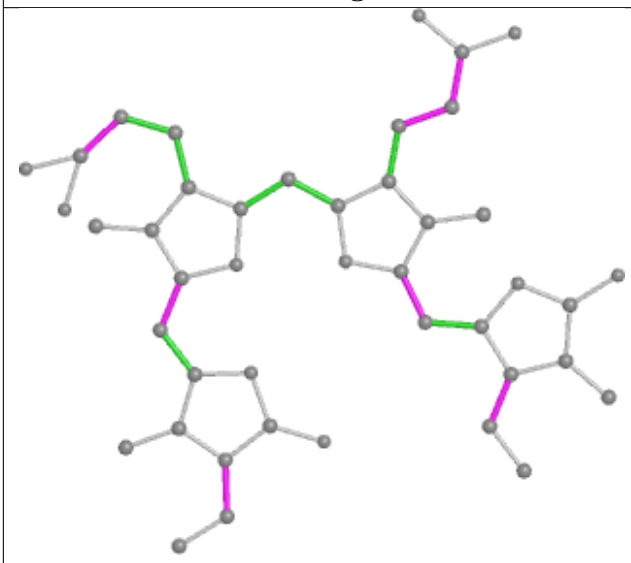
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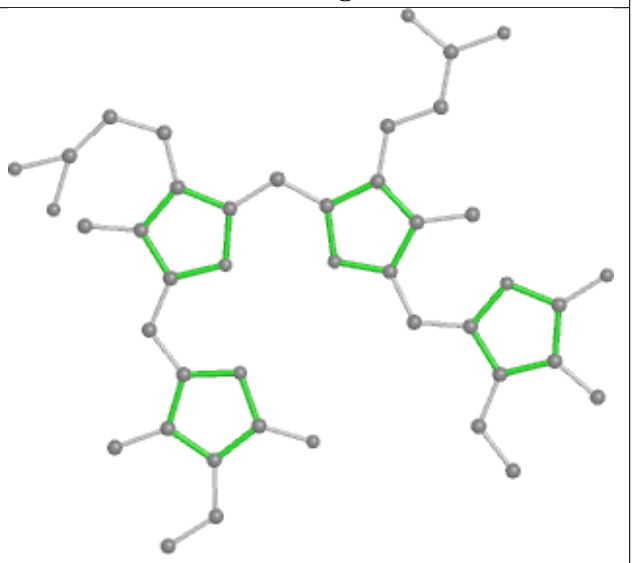
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Bond angles

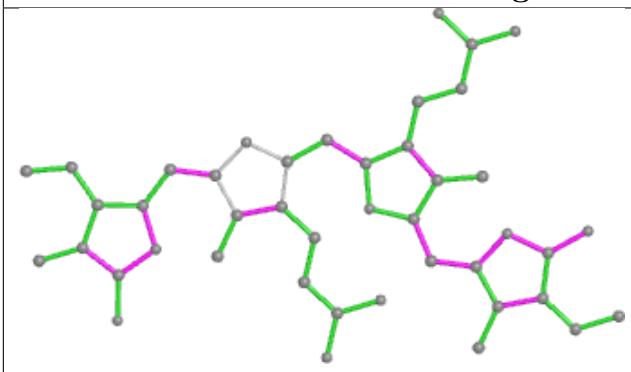


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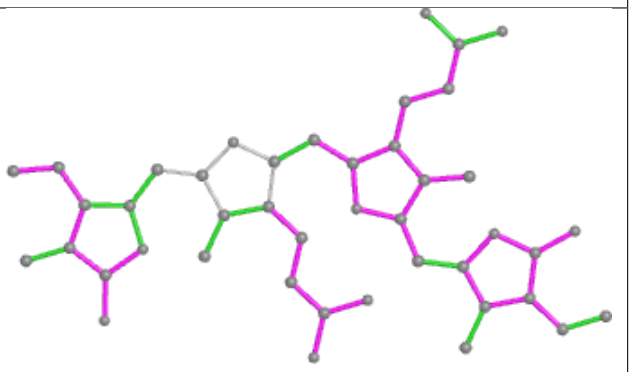


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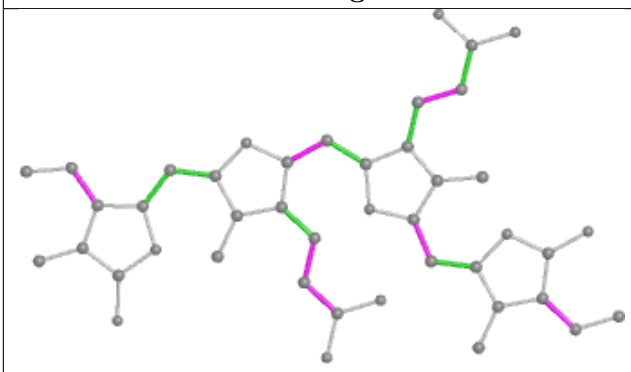
Ligand CYC H6 201



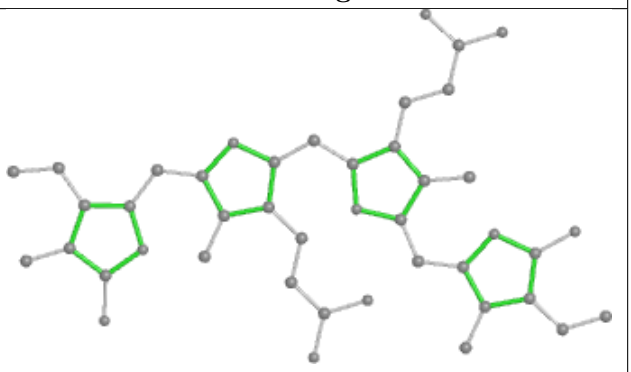
Bond lengths



Bond angles

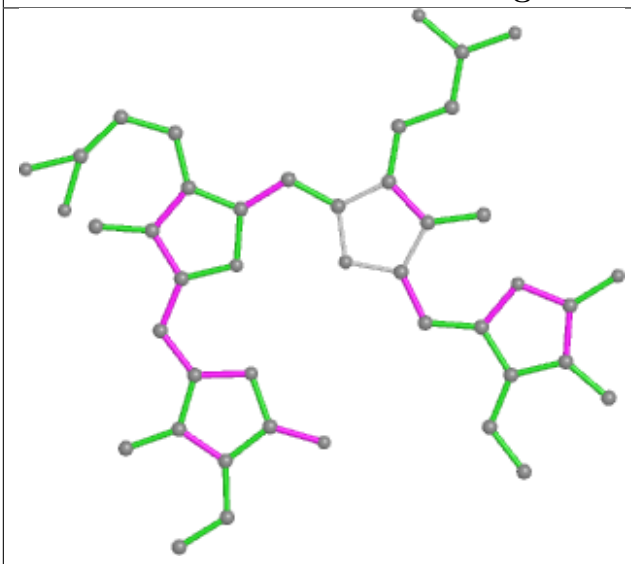


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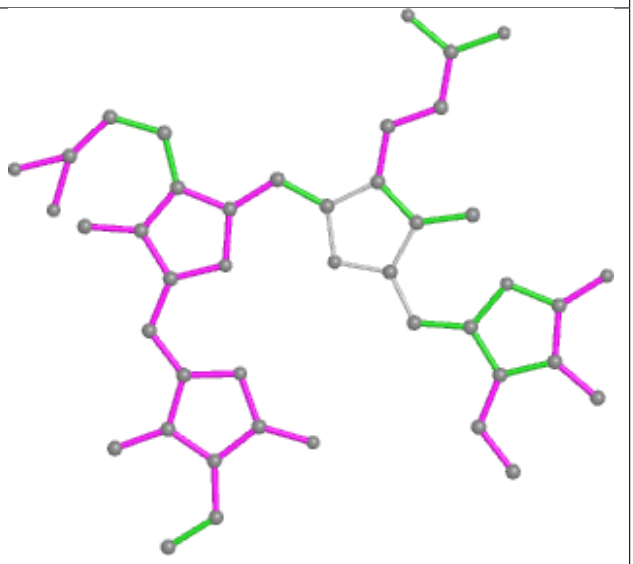


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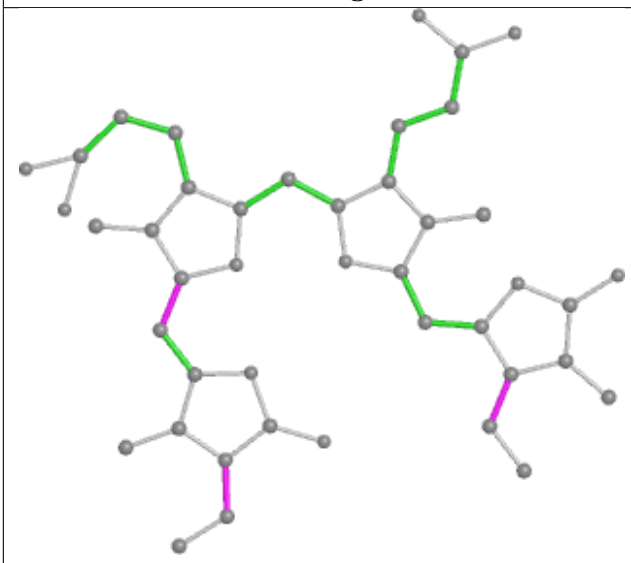
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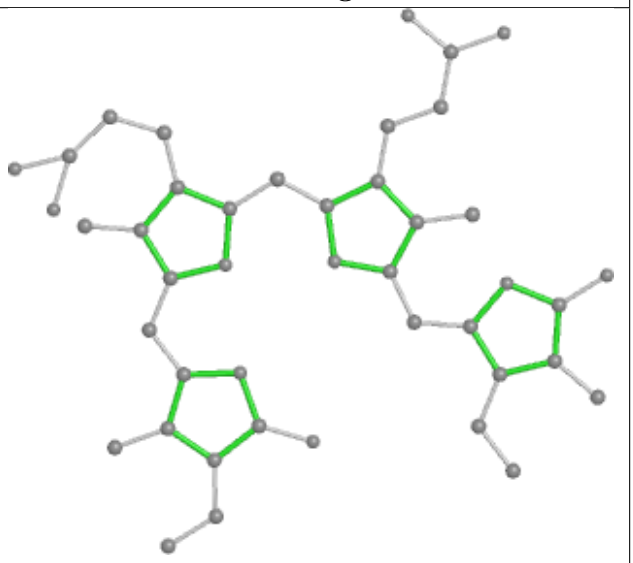
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Bond angles

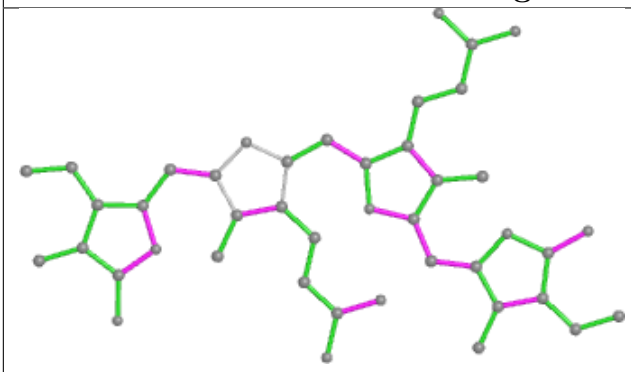


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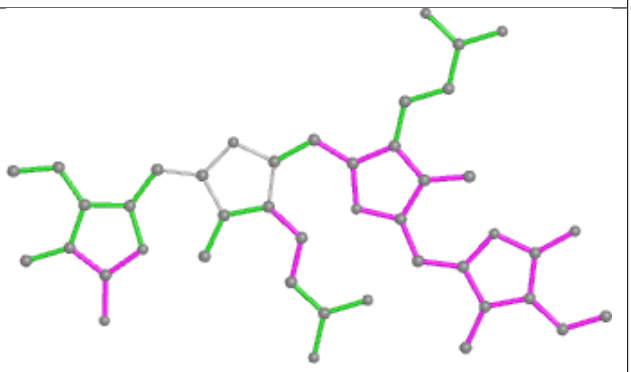


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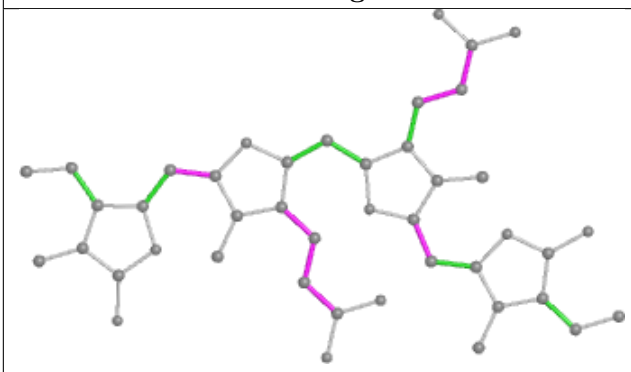
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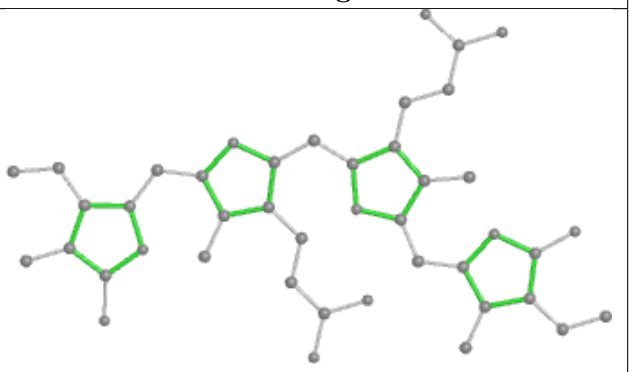
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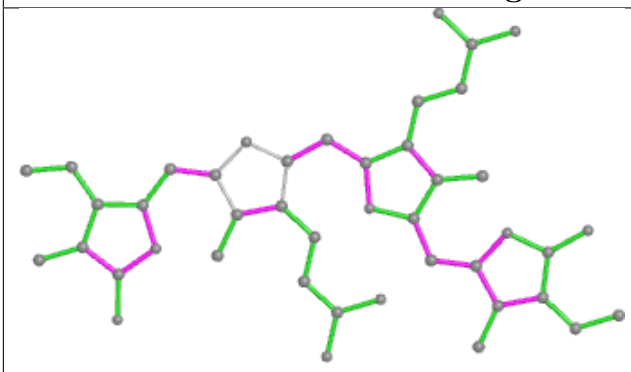


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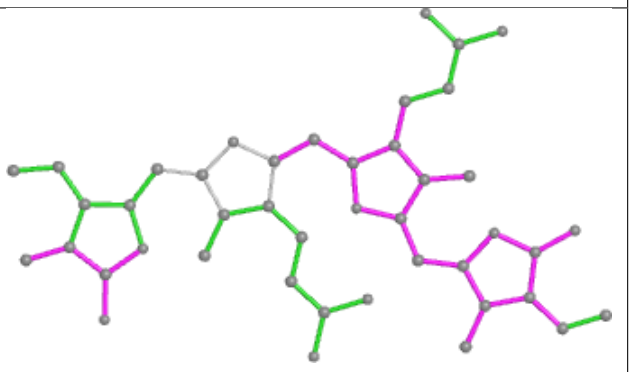


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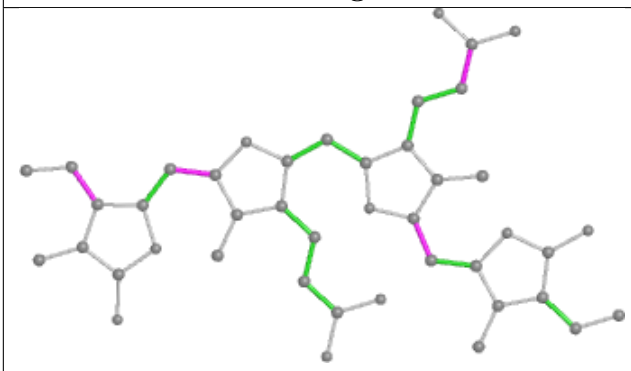
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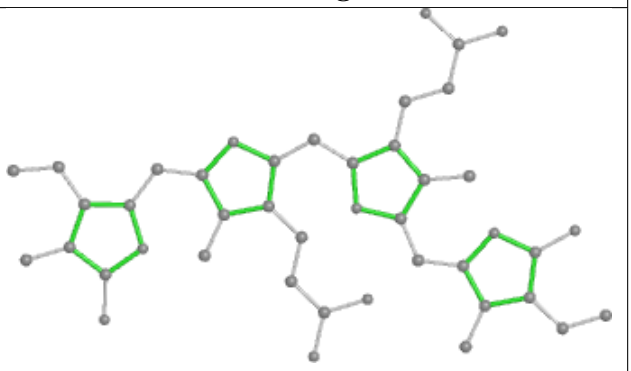
Bond lengths



Bond angles

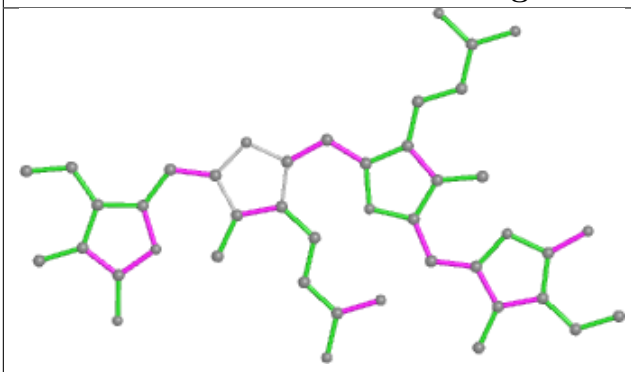


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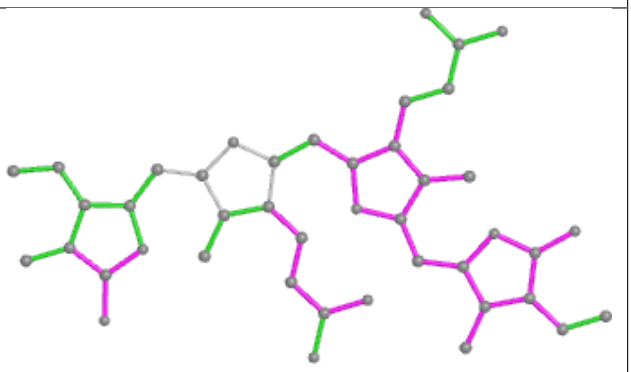


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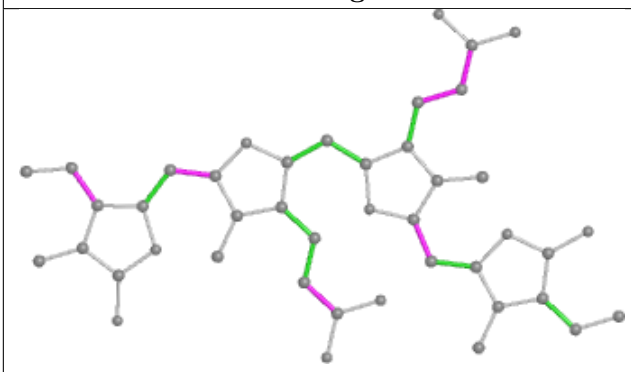
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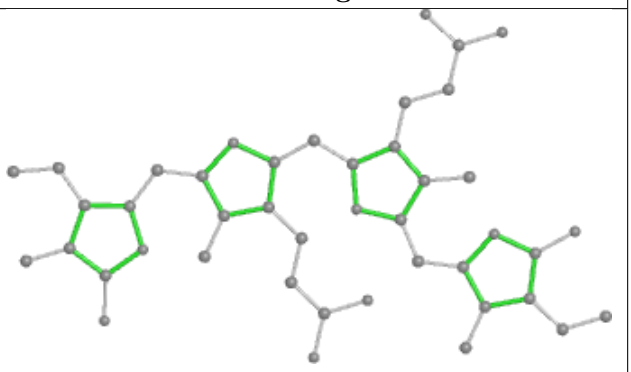
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Bond angles

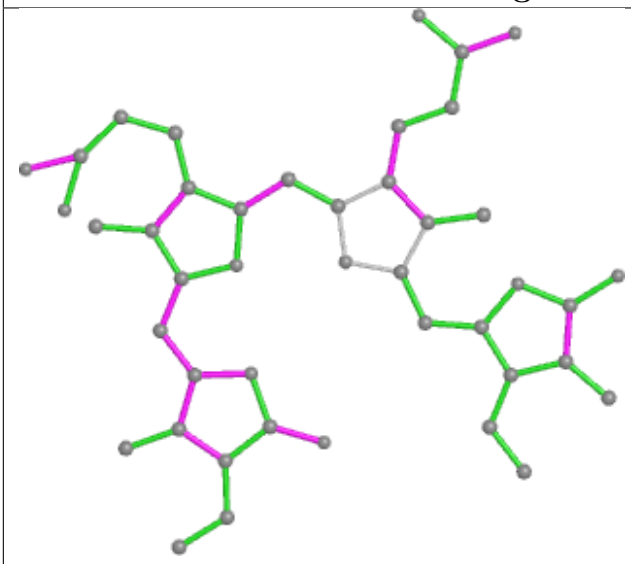


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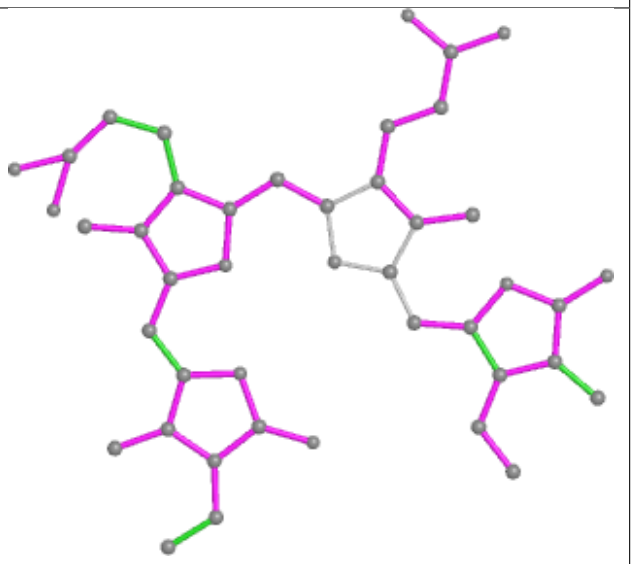


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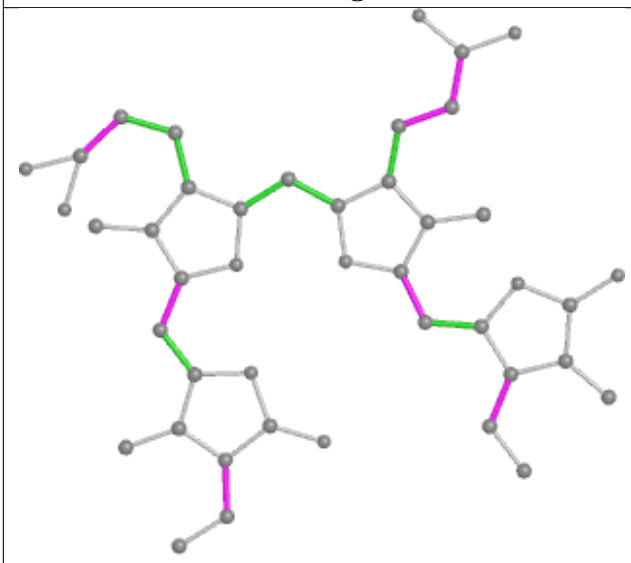
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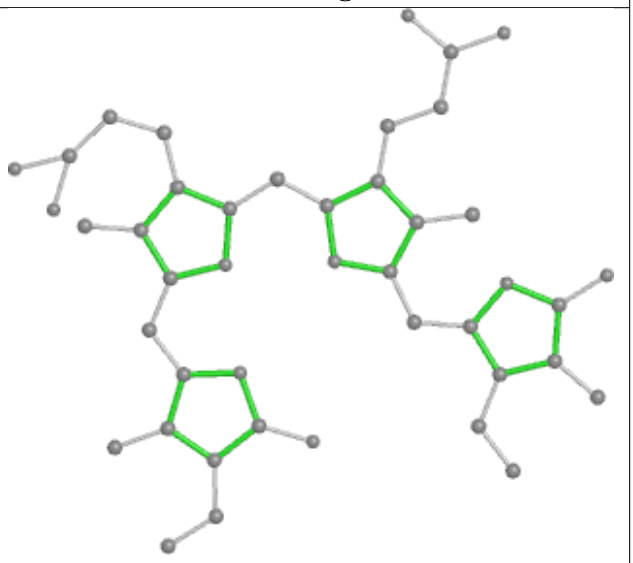
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Bond angles

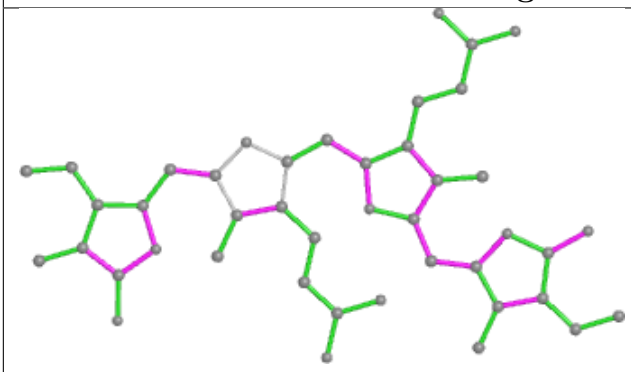


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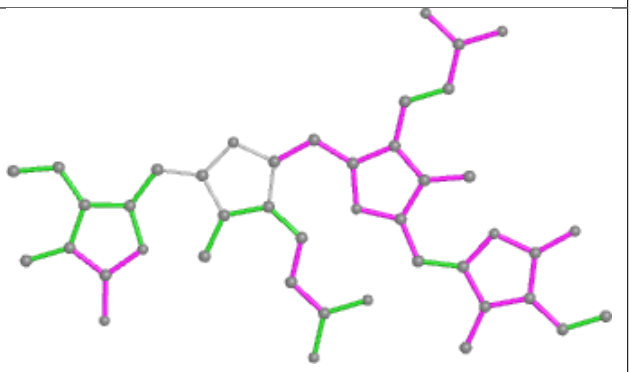


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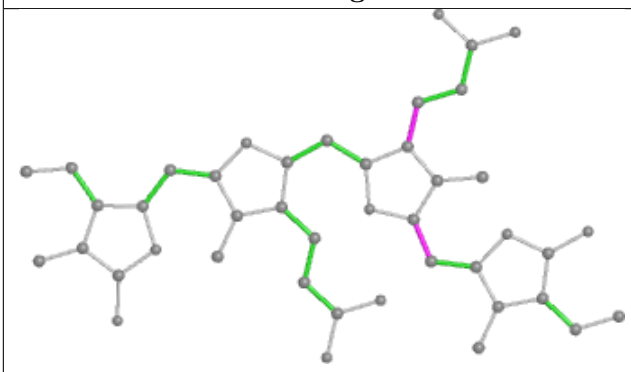
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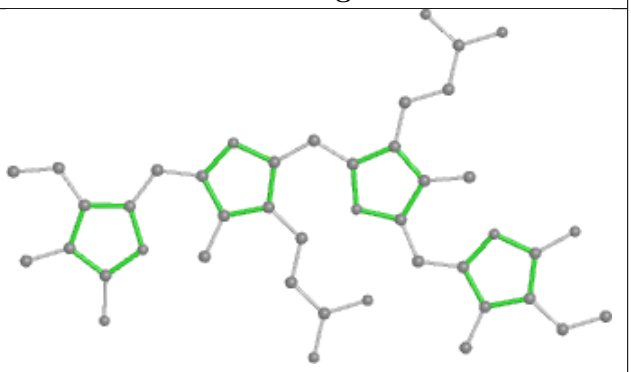
Bond lengths



Bond angles

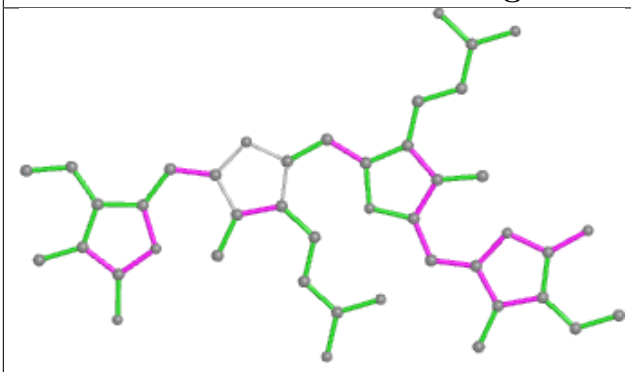


Torsions

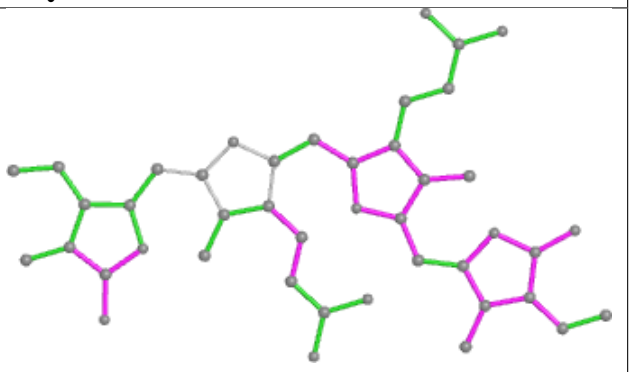


Rings

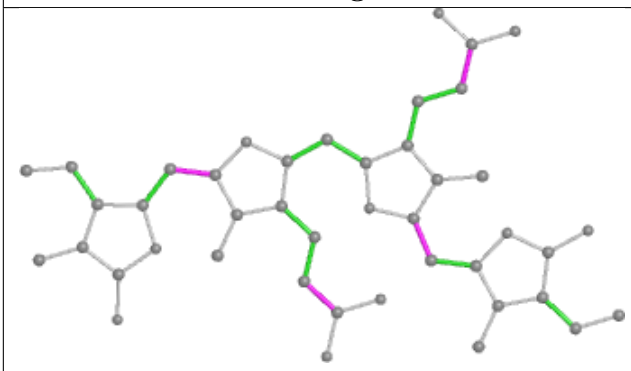
Ligand CYC Q3 1001



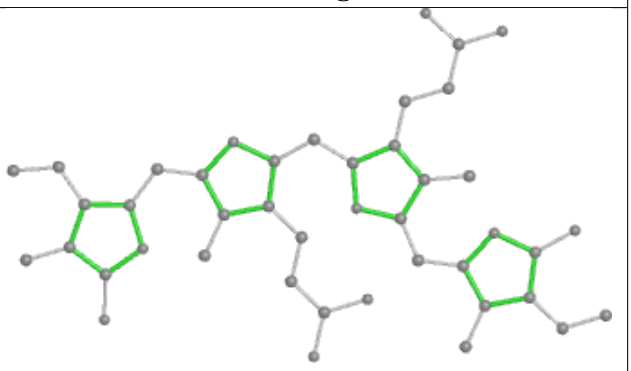
Bond lengths



Bond angles

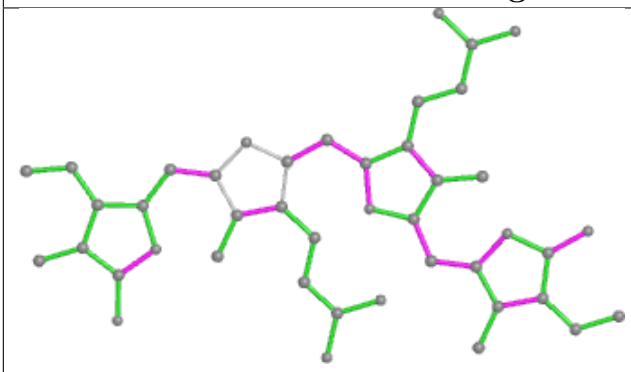


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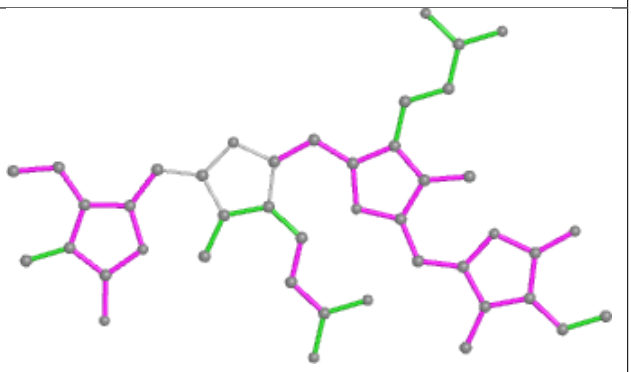


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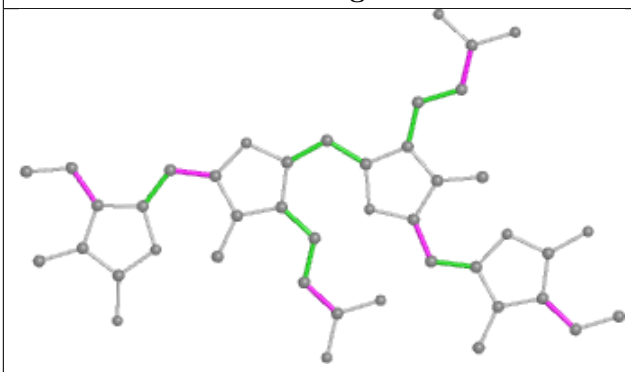
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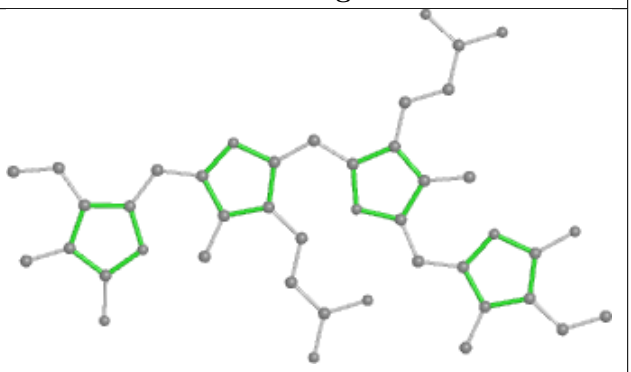
Bond lengths



Bond angles

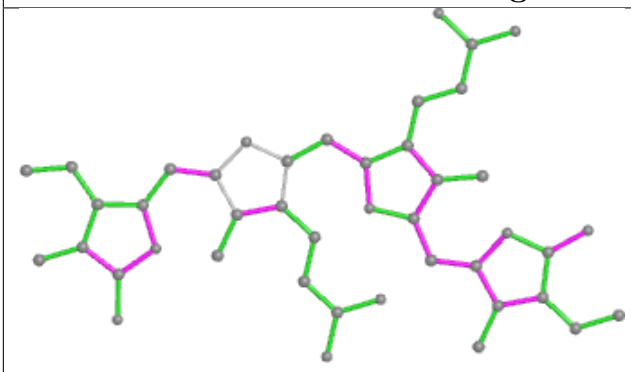


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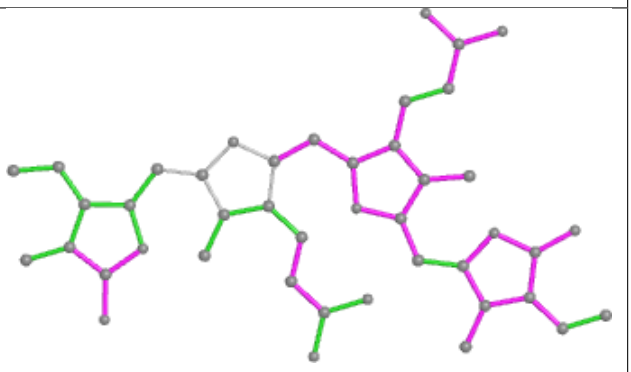


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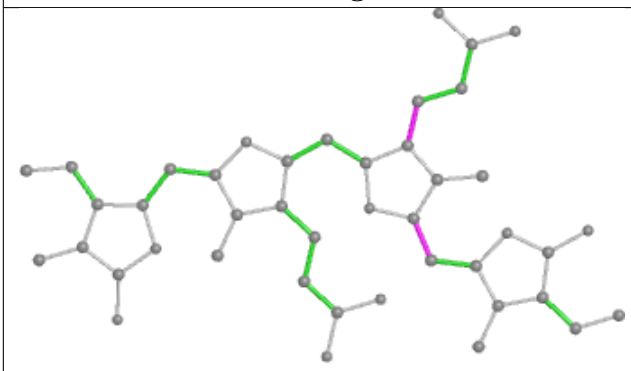
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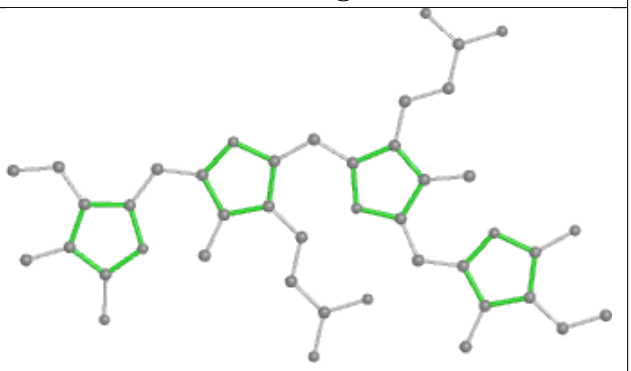
Bond lengths



Bond angles

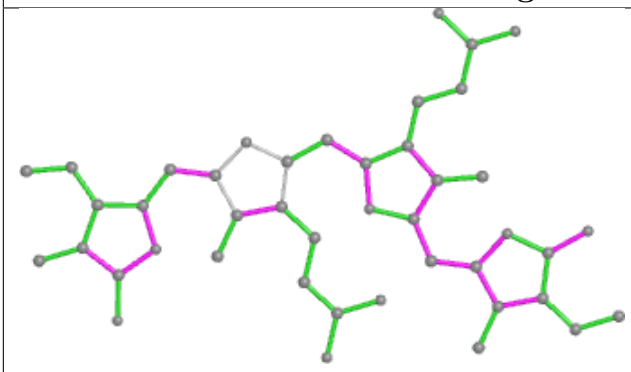


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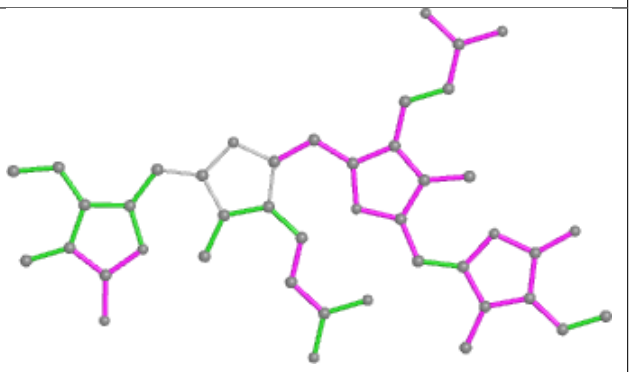


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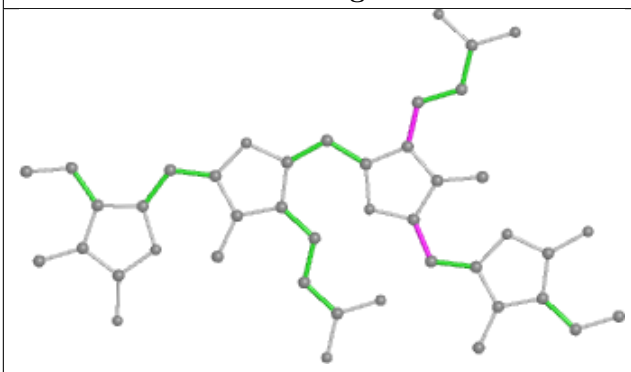
Ligand CYC 03 902



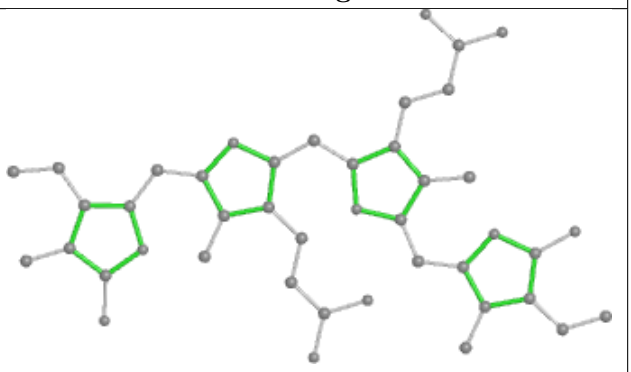
Bond lengths



Bond angles

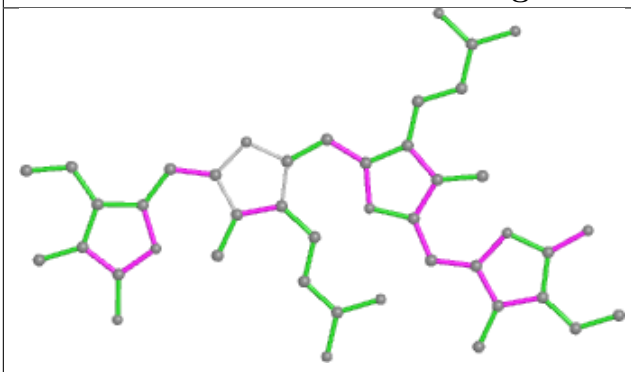


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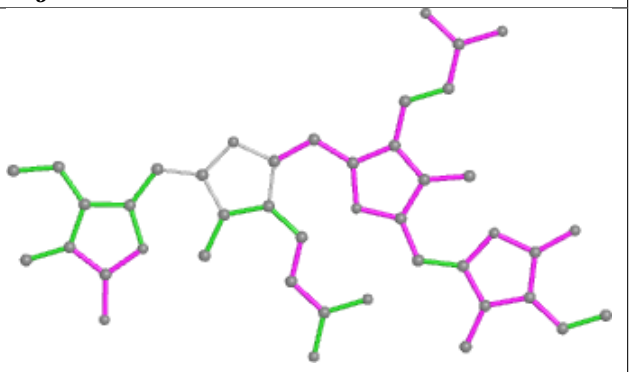


Rings

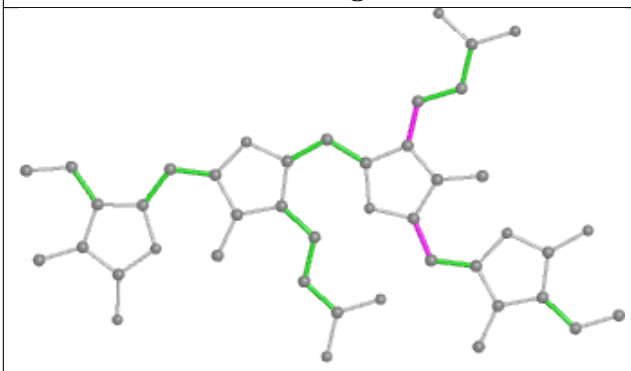
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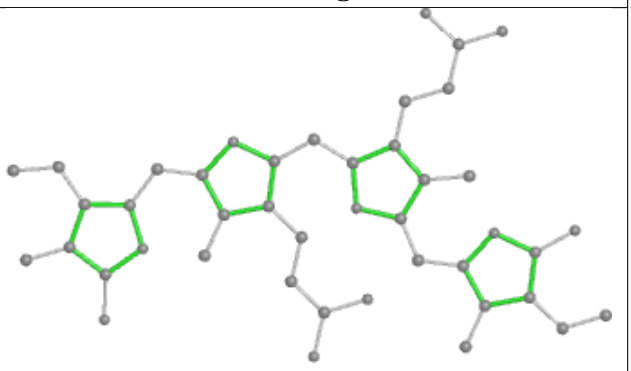
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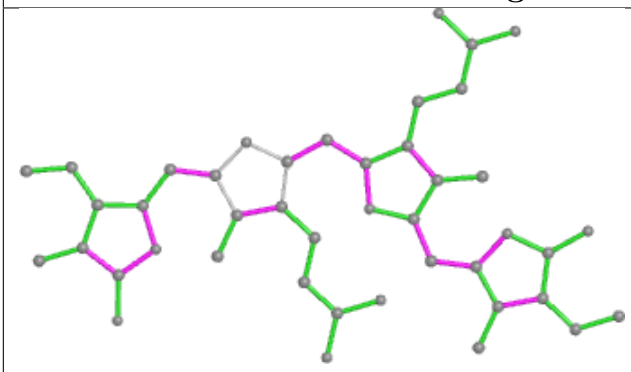


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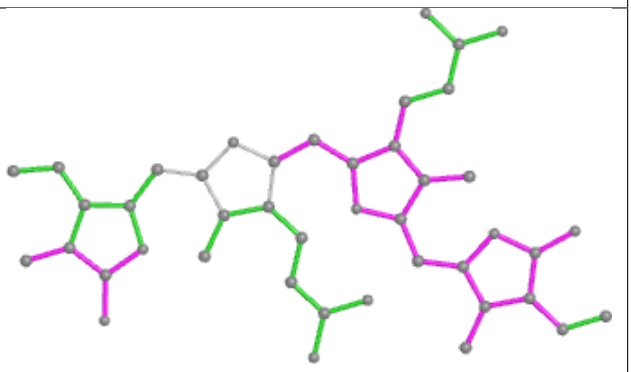


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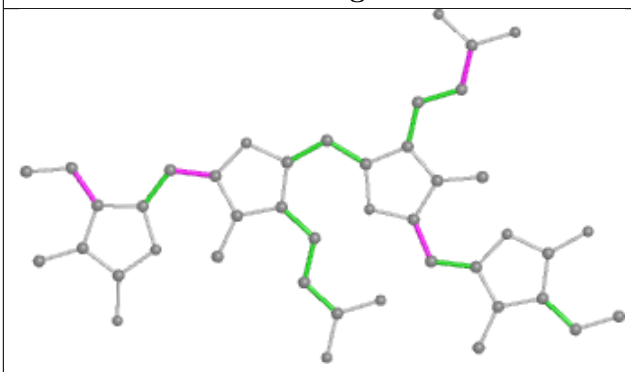
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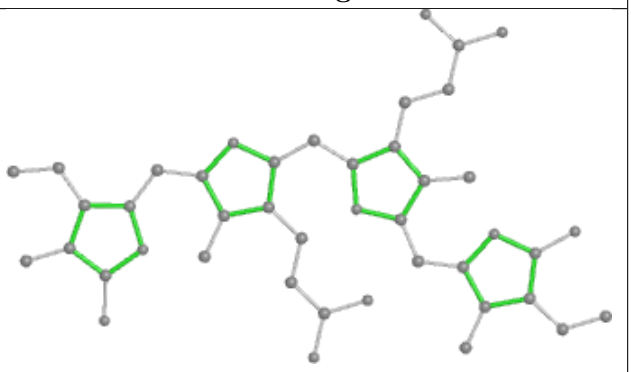
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Bond angles

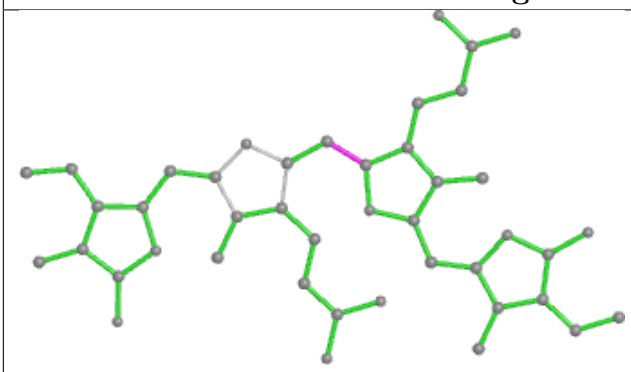


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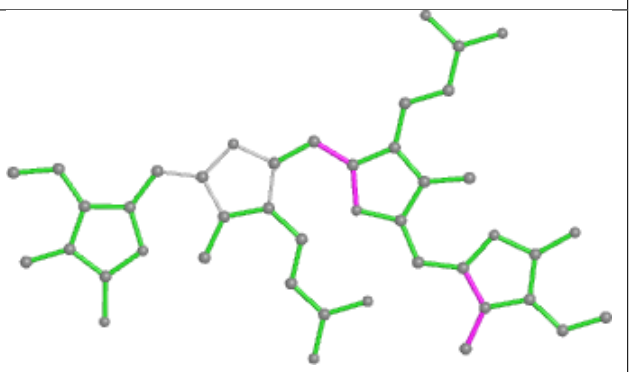


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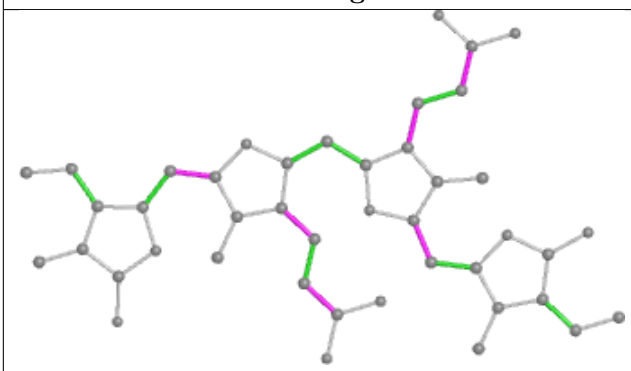
Ligand CYC K2 202



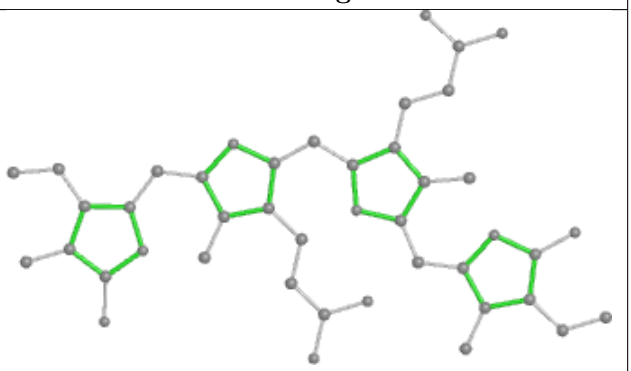
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Bond angles

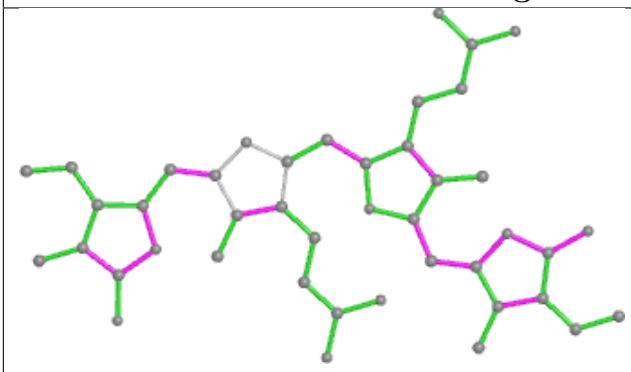


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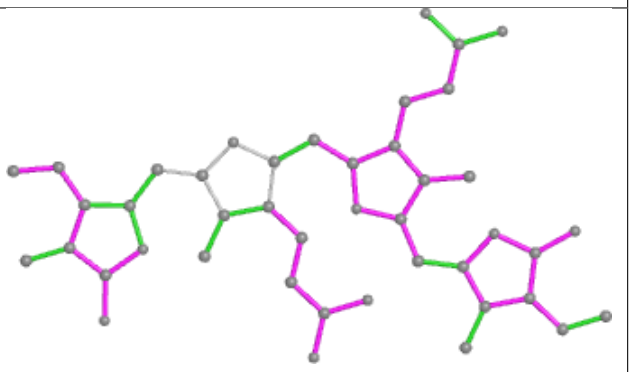


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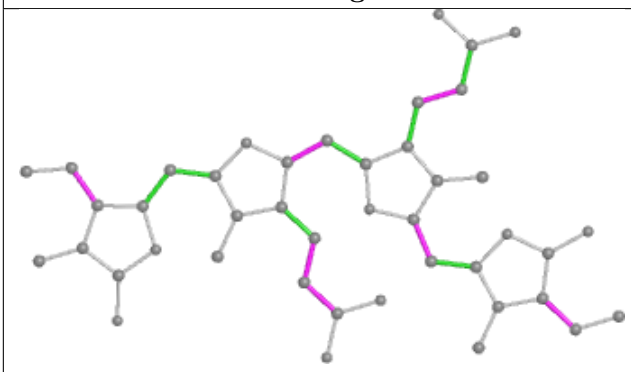
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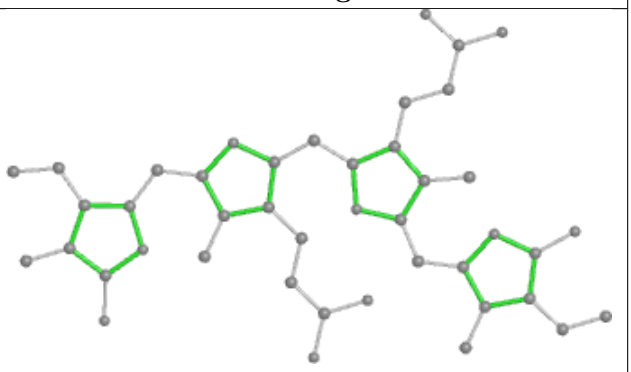
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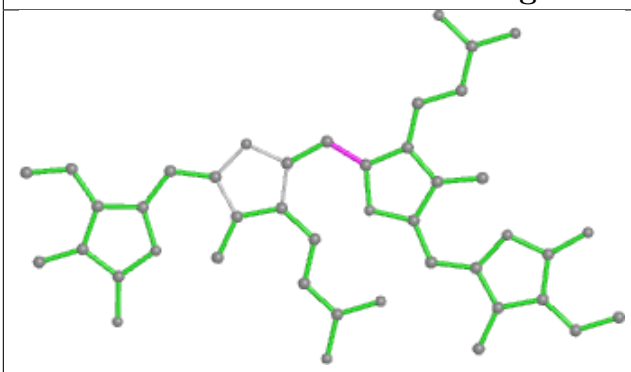


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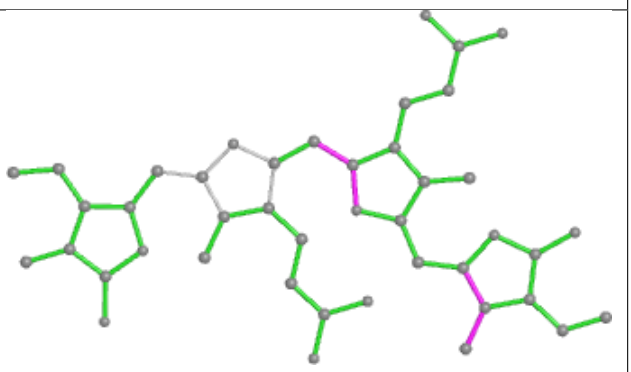


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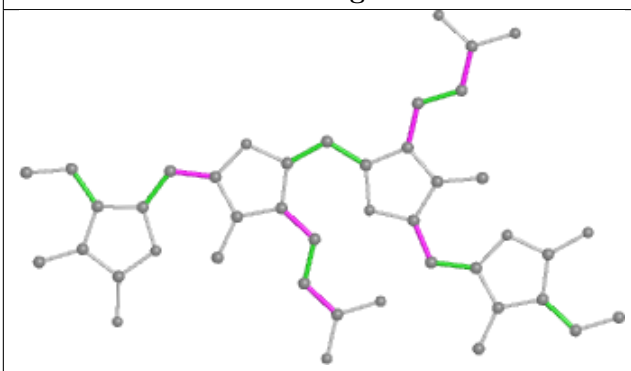
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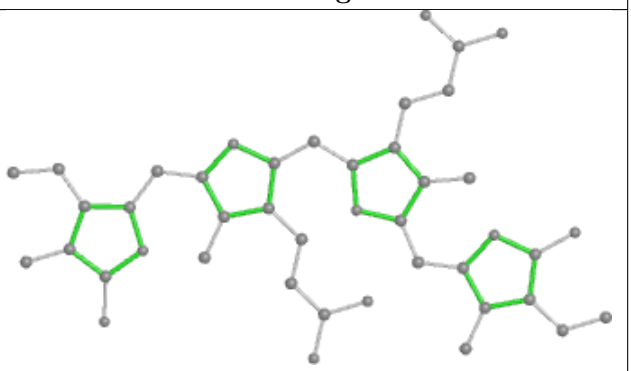
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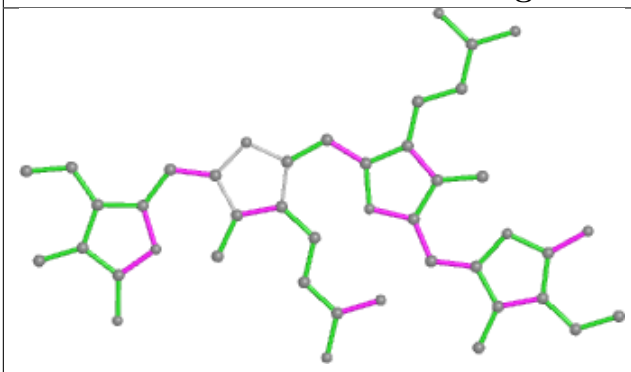


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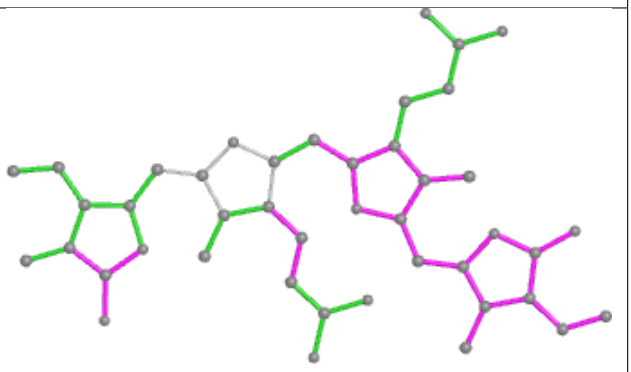


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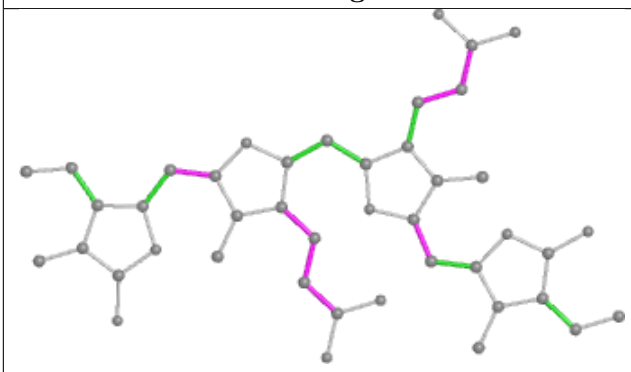
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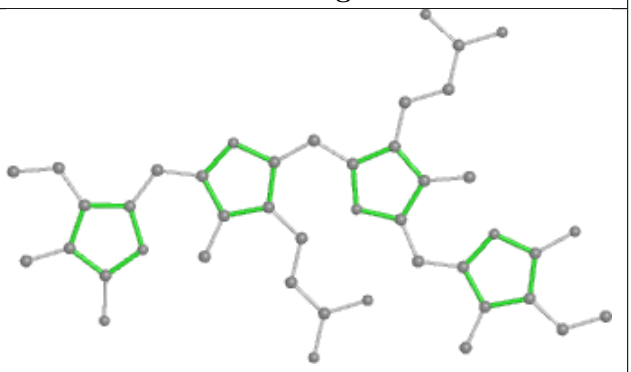
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Bond angles

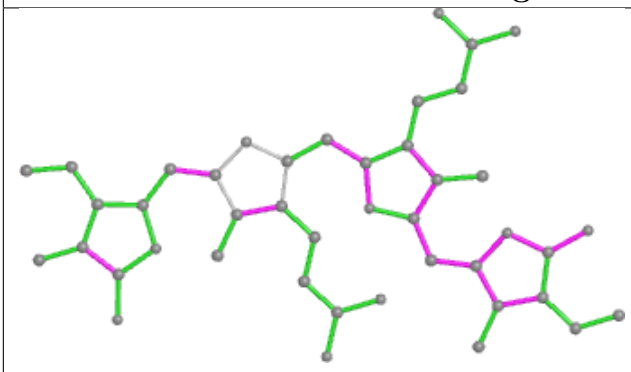


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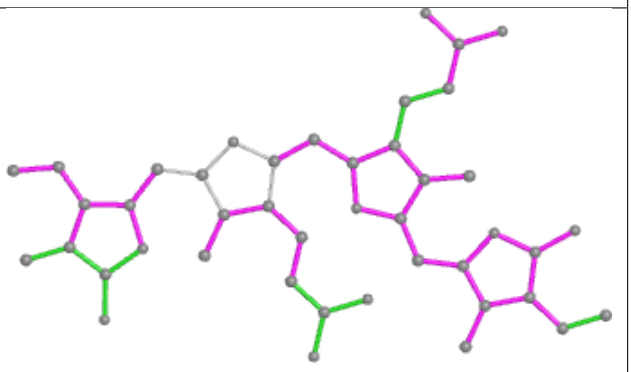


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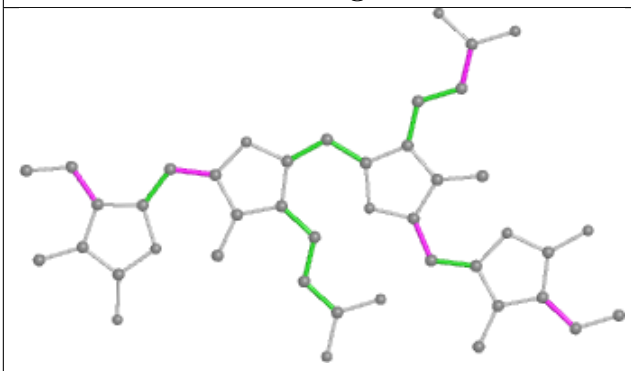
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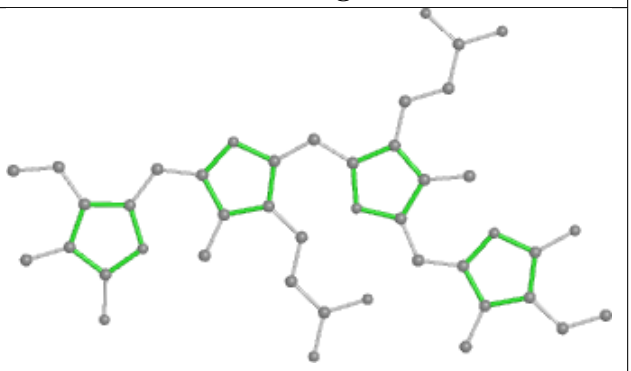
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Bond angles

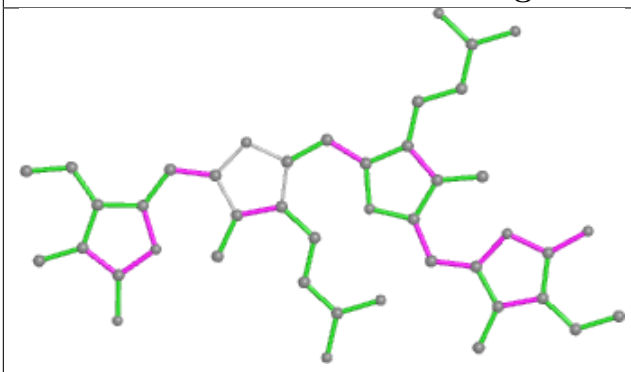


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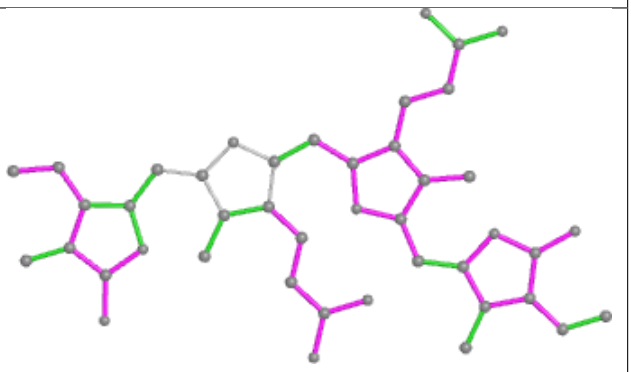


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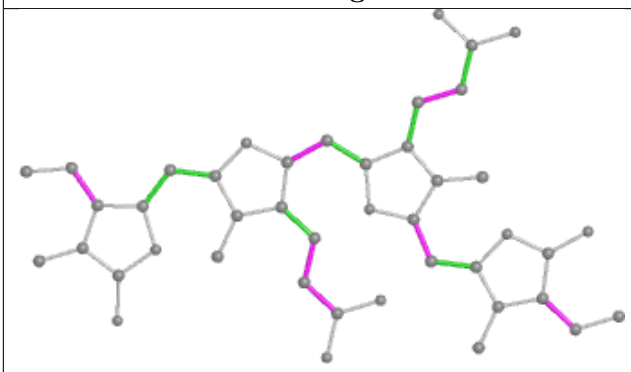
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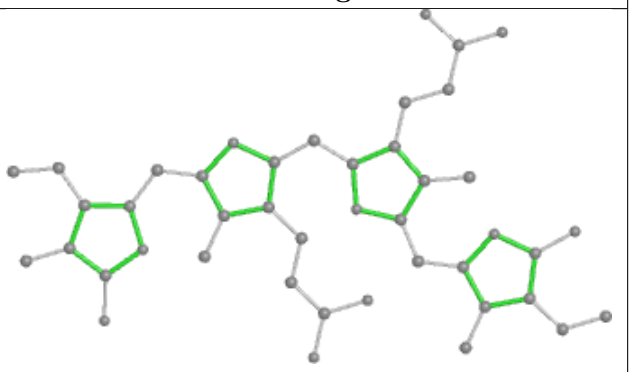
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Bond angles

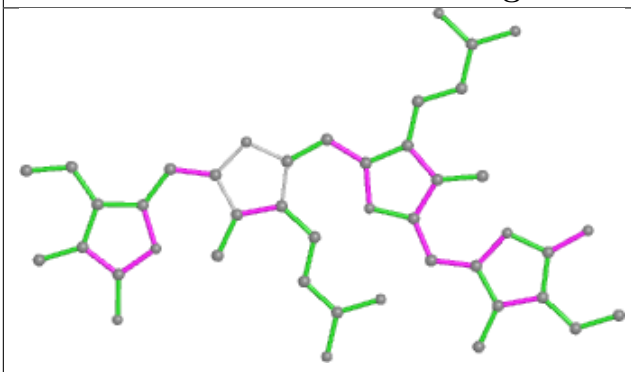


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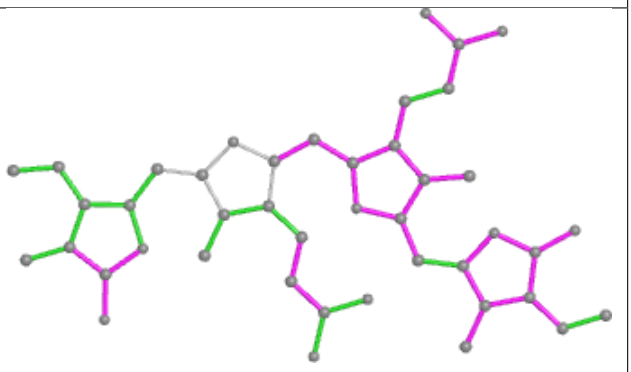


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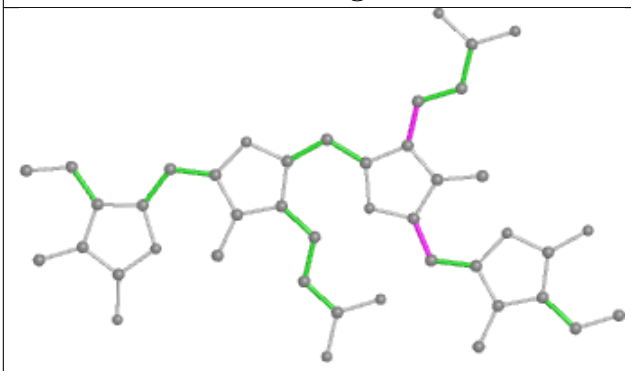
Ligand CYC H3 1001



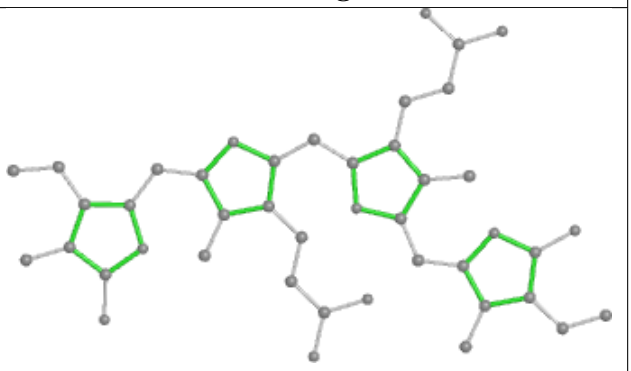
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Bond angles

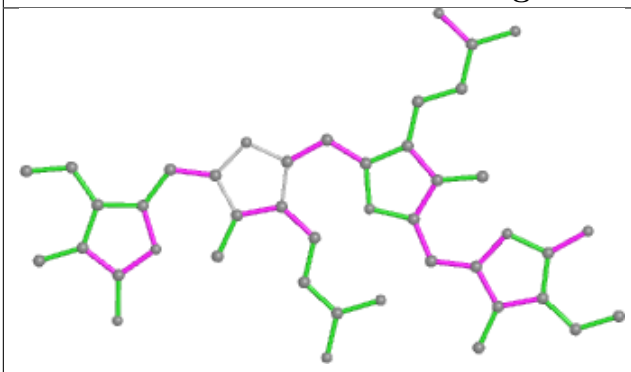


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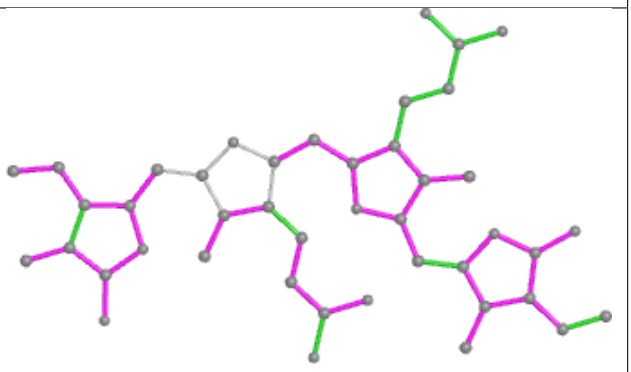


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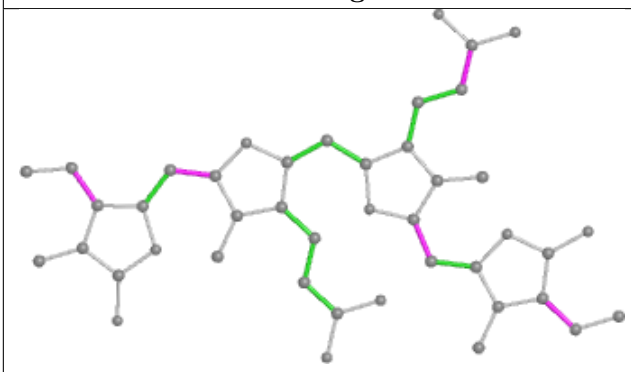
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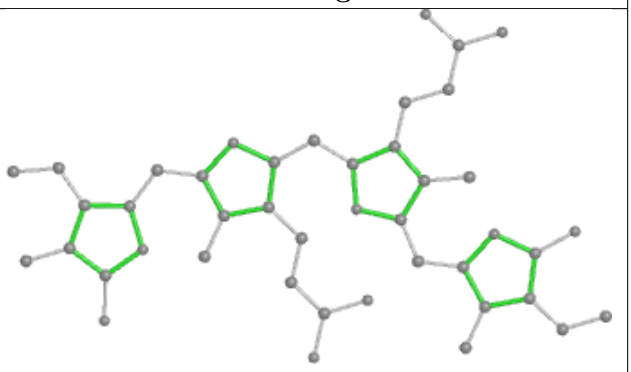
Bond lengths



Bond angles

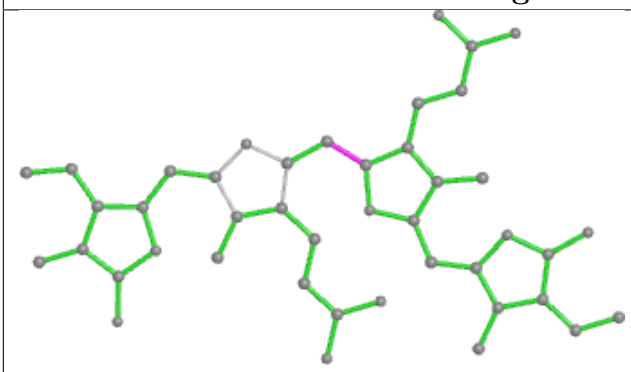


Torsions

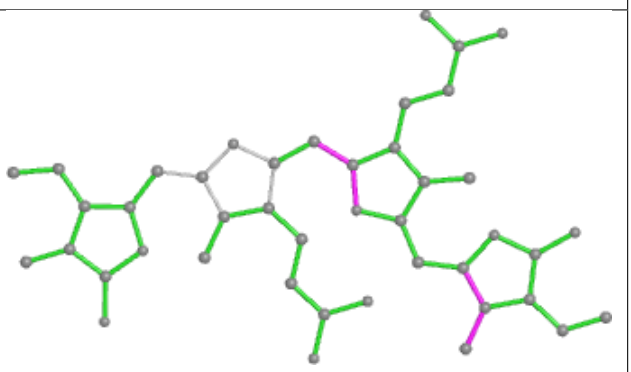


Rings

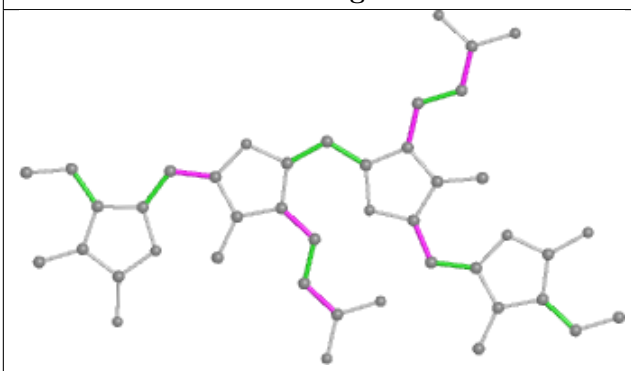
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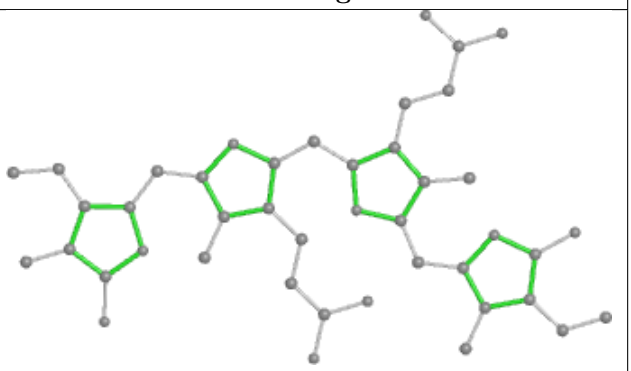
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Bond angles

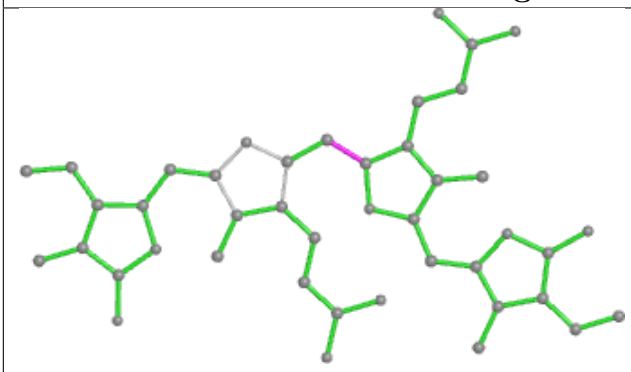


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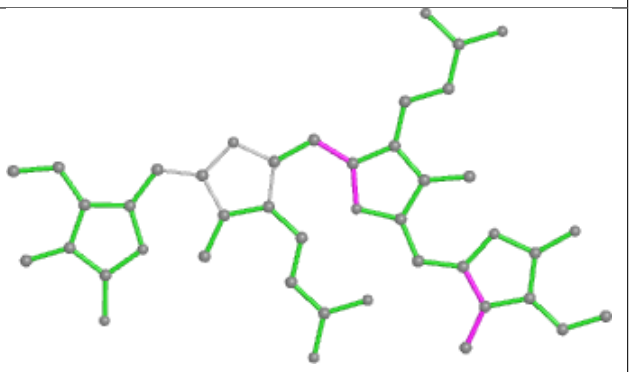


Rings

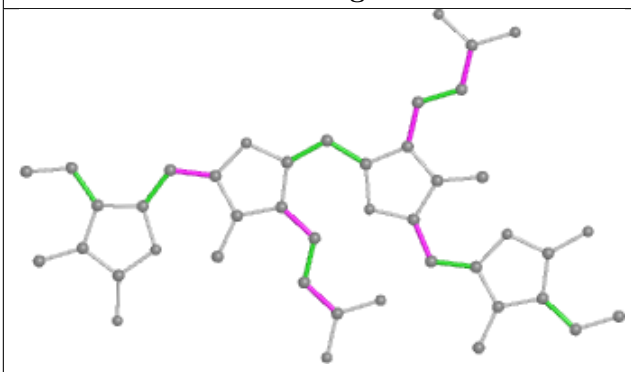
Ligand CYC P2 202



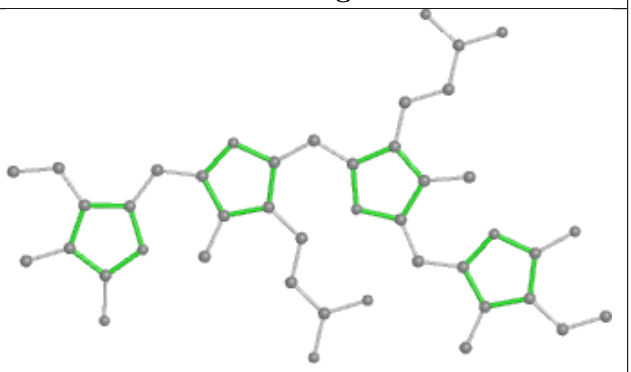
Bond lengths



Bond angles

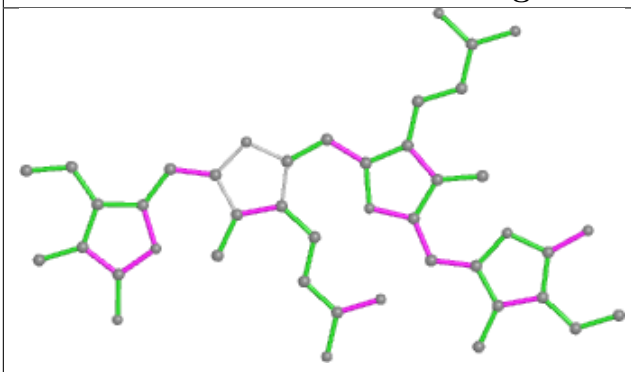


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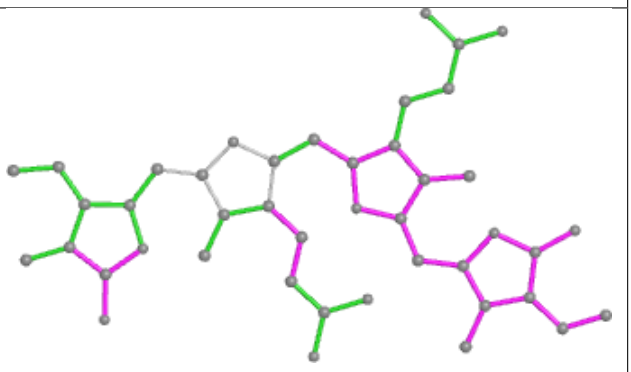


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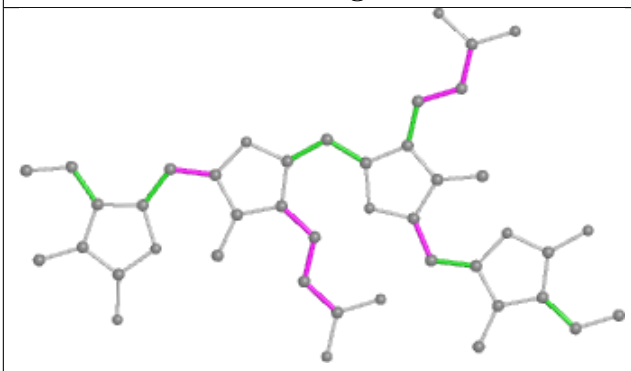
Ligand CYC R5 202



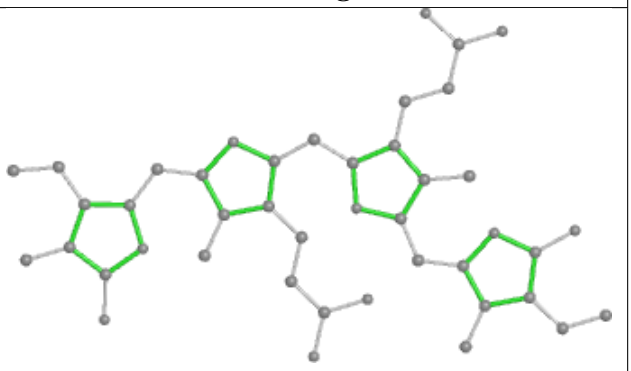
Bond lengths



Bond angles

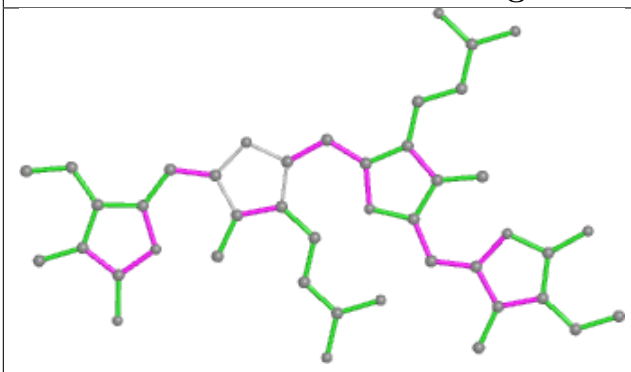


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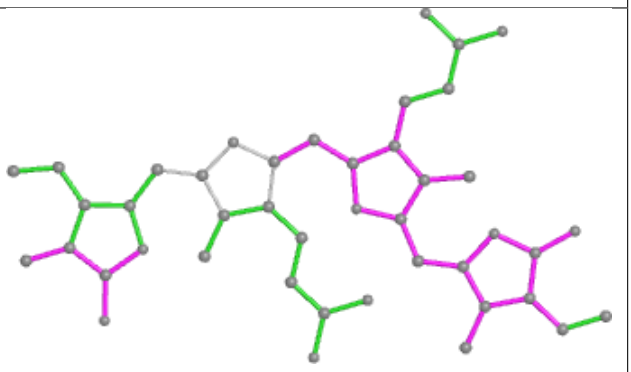


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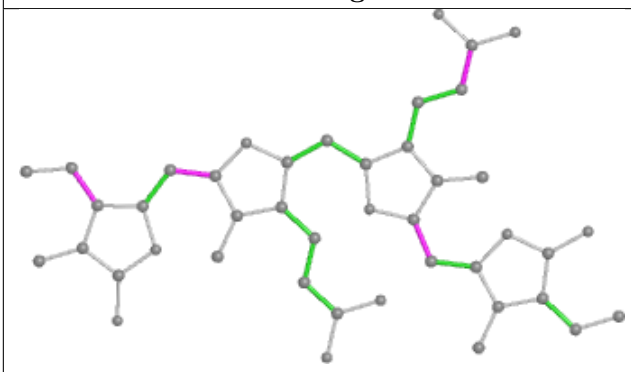
Ligand CYC k3 1001



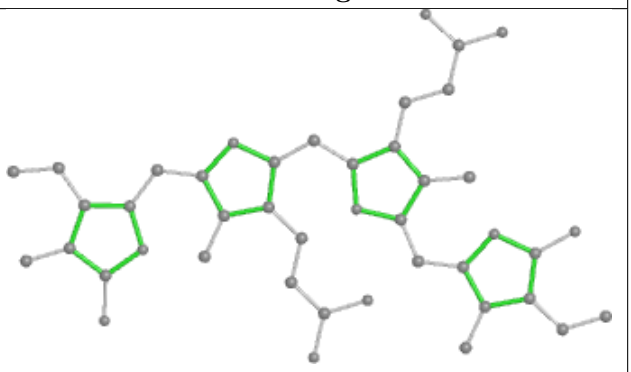
Bond lengths



Bond angles

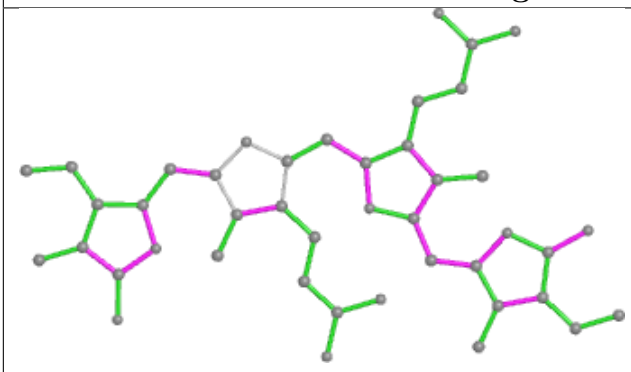


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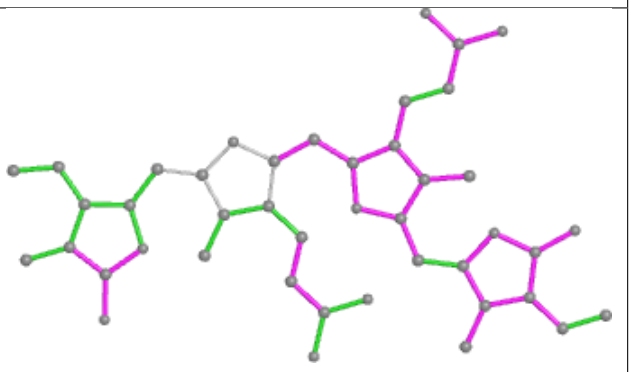


Rings

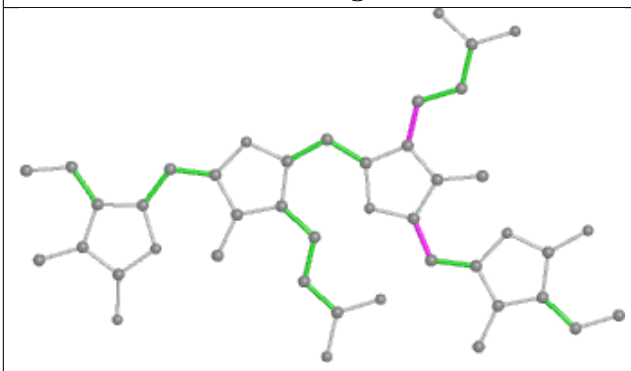
Ligand CYC l3 1001



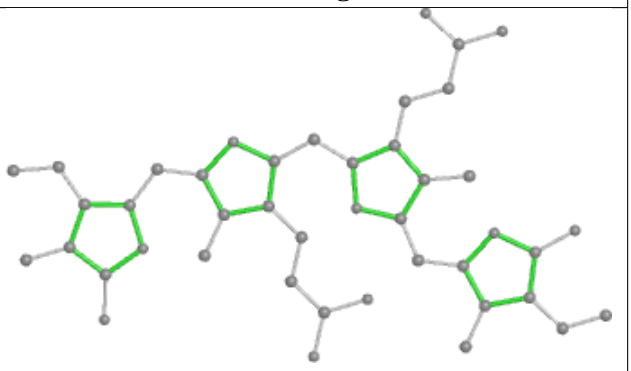
Bond lengths



Bond angles

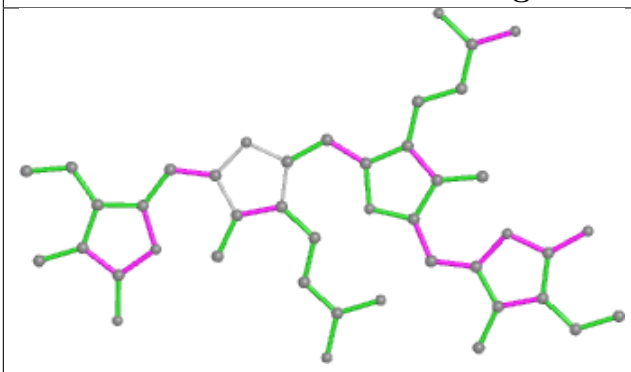


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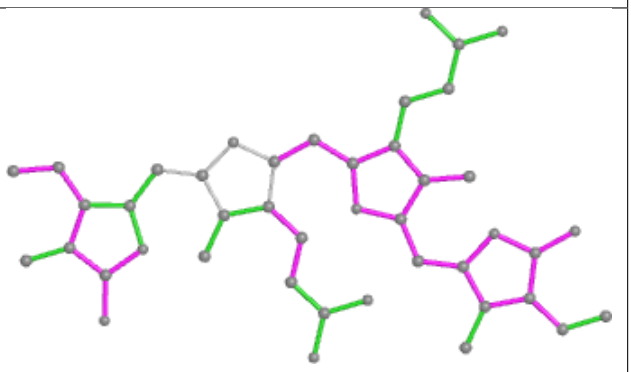


Rings

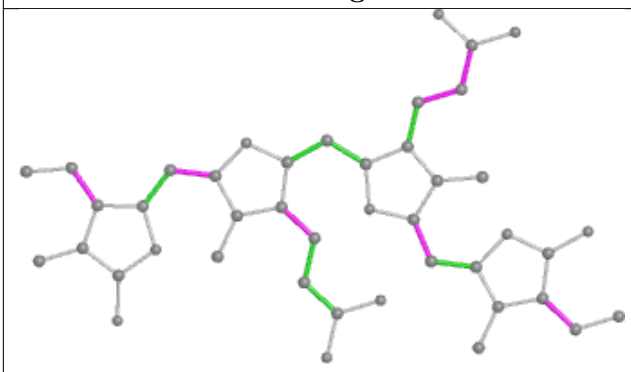
Ligand CYC Y8 201



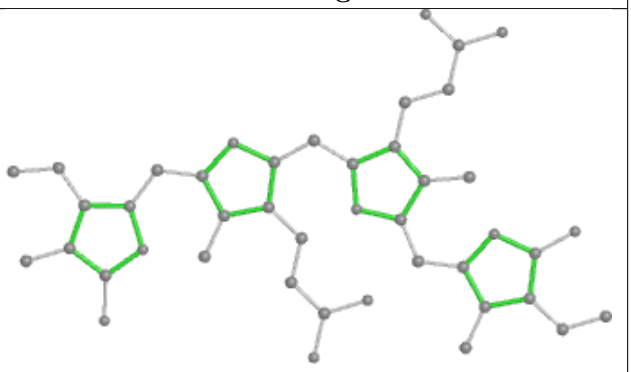
Bond lengths



Bond angles

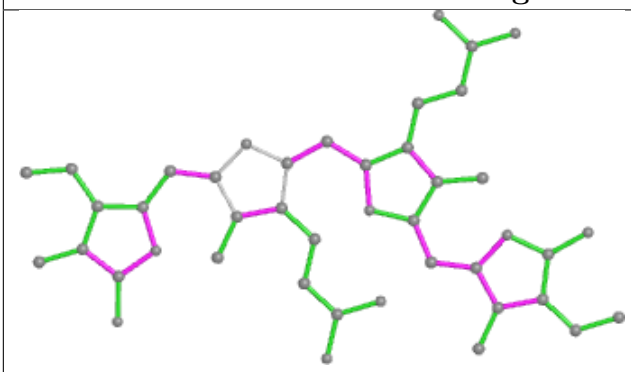


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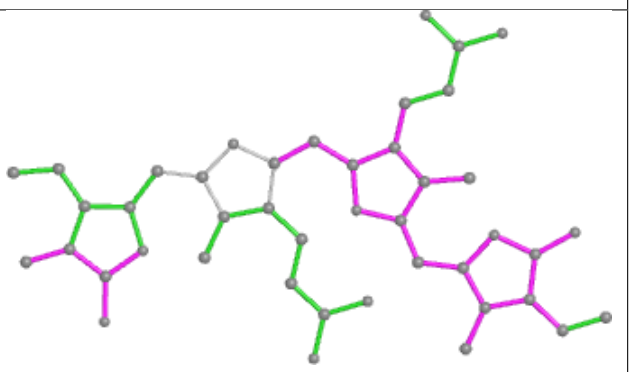


Rings

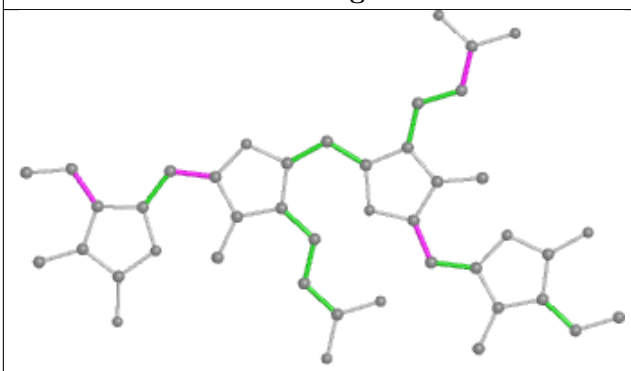
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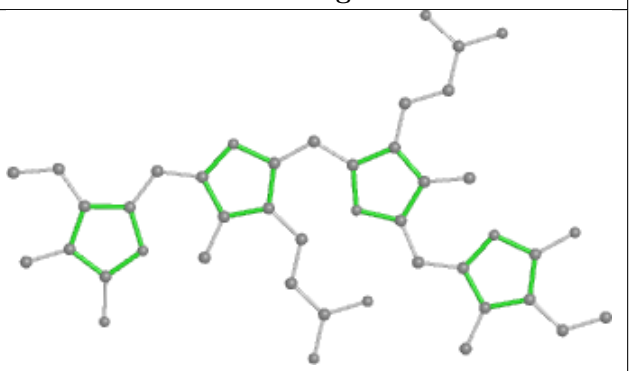
Bond lengths



Bond angles

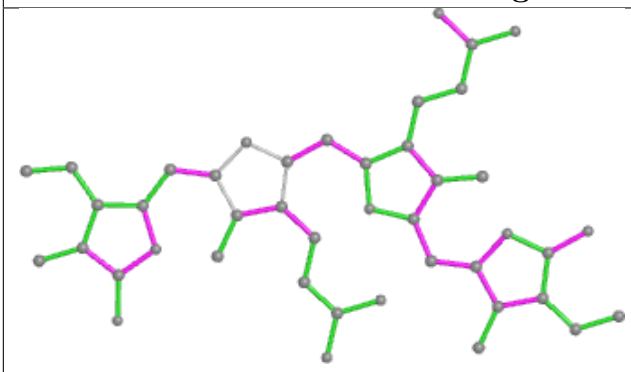


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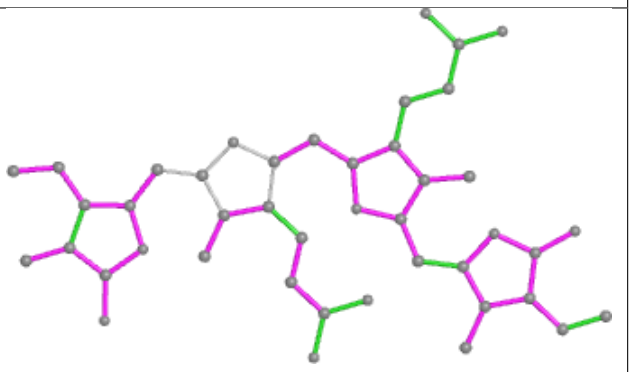


Rings

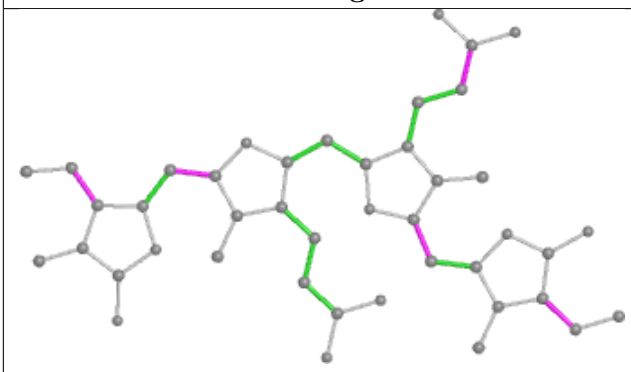
Ligand CYC G4 202



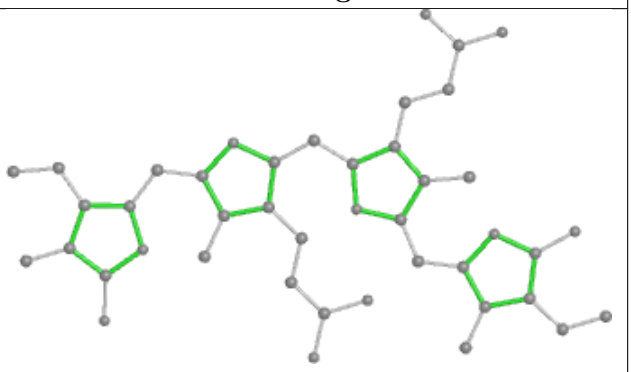
Bond lengths



Bond angles

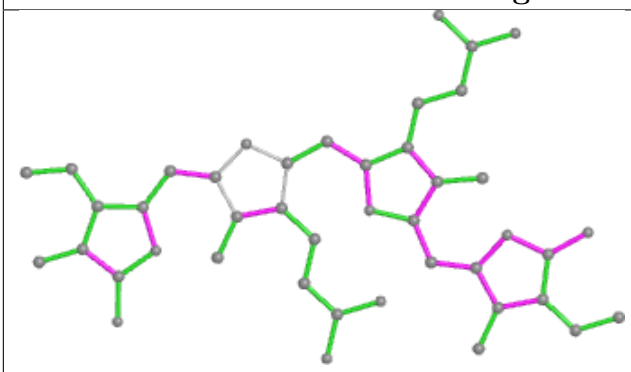


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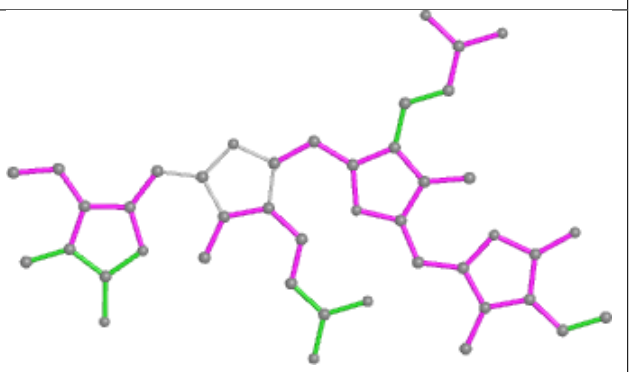


Rings

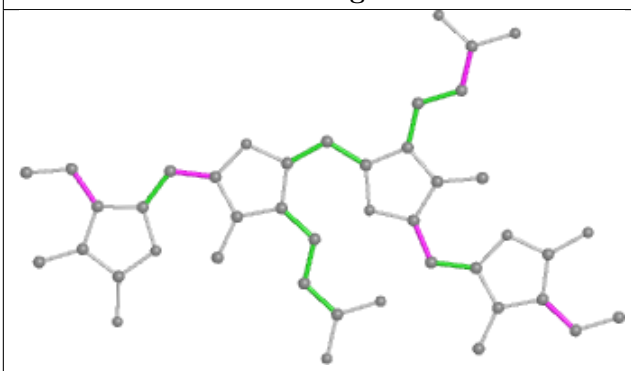
Ligand CYC V5 201



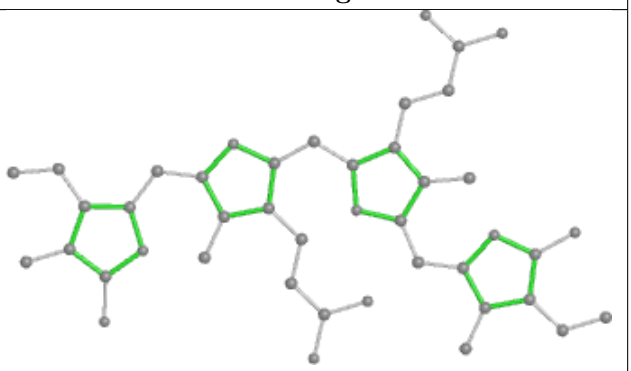
Bond lengths



Bond angles

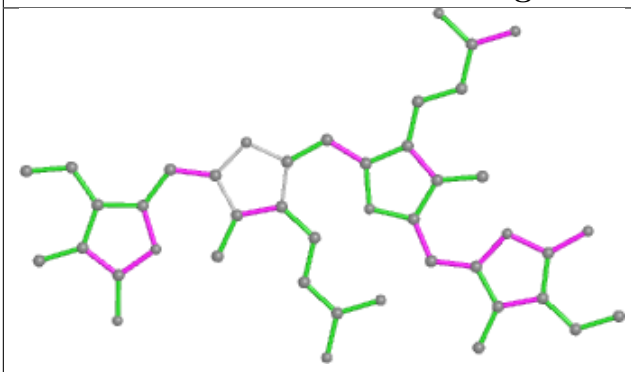


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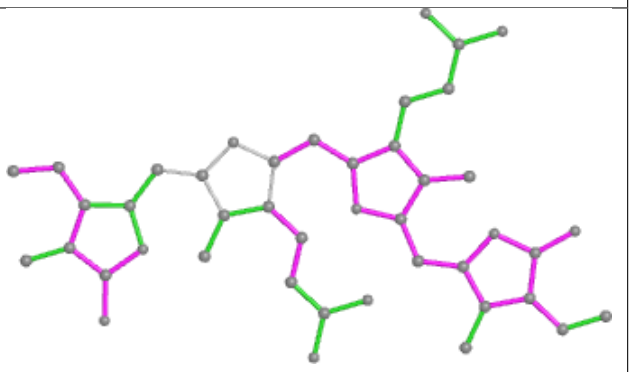


Rings

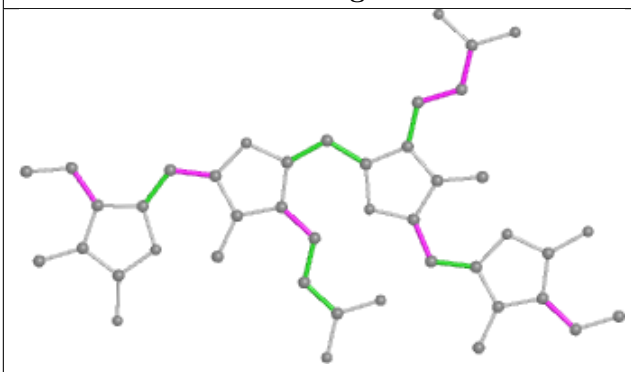
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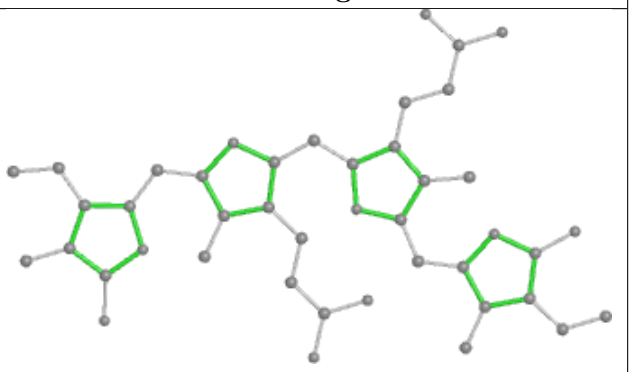
Bond lengths



Bond angles

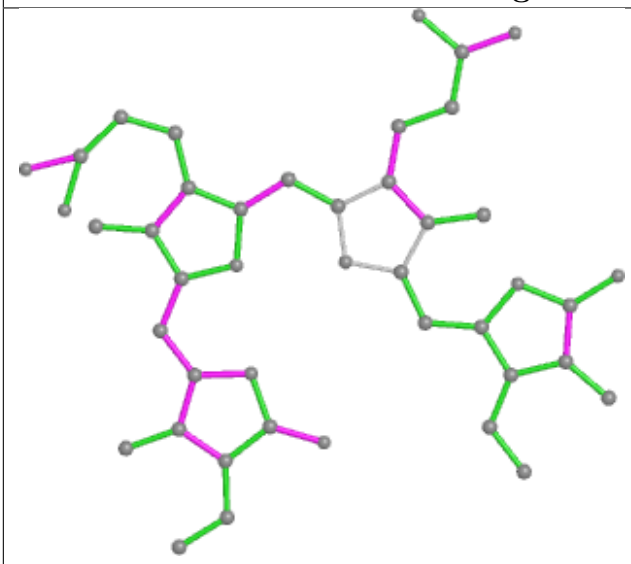


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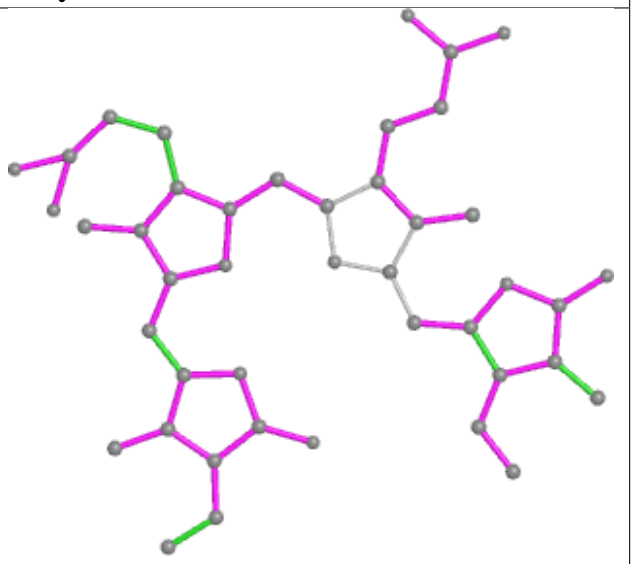


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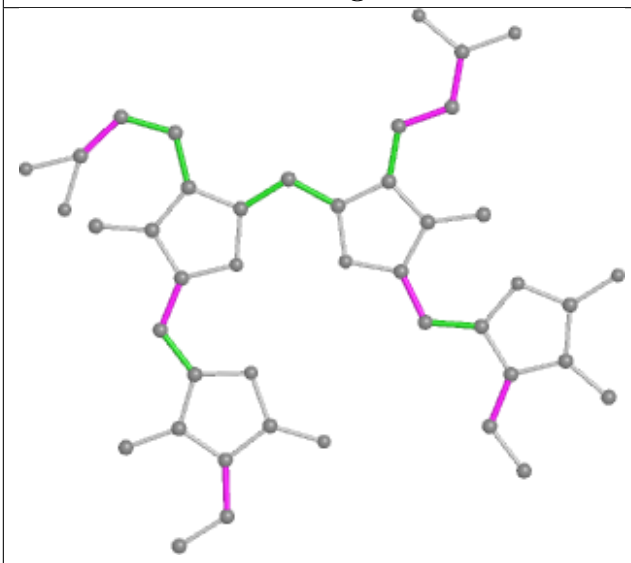
Ligand CYC Q1 201



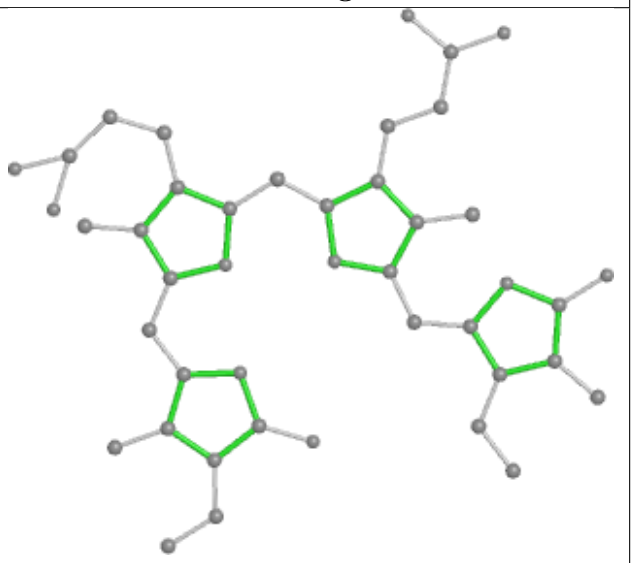
Bond lengths



Bond angles

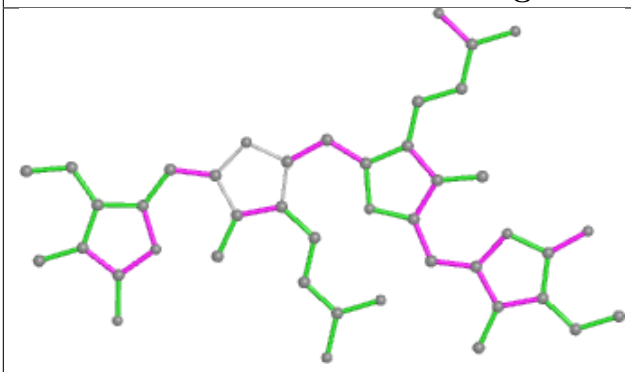


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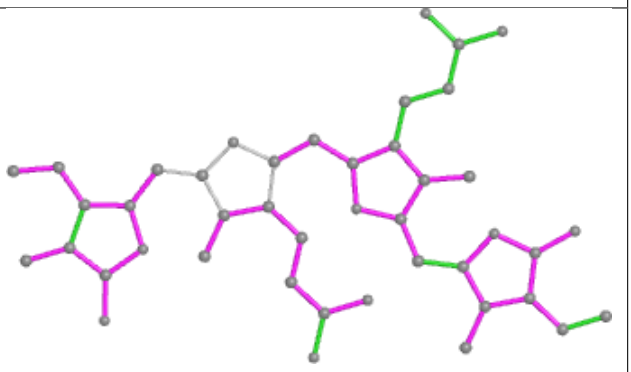


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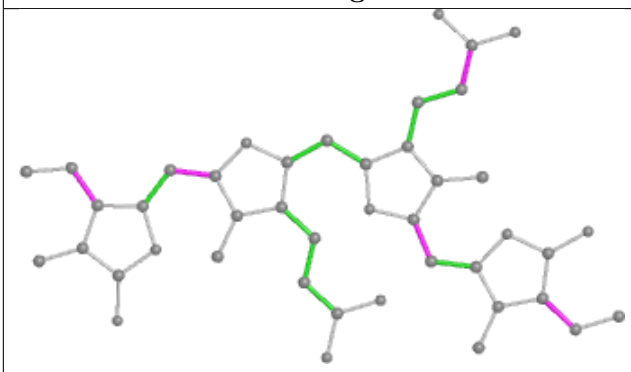
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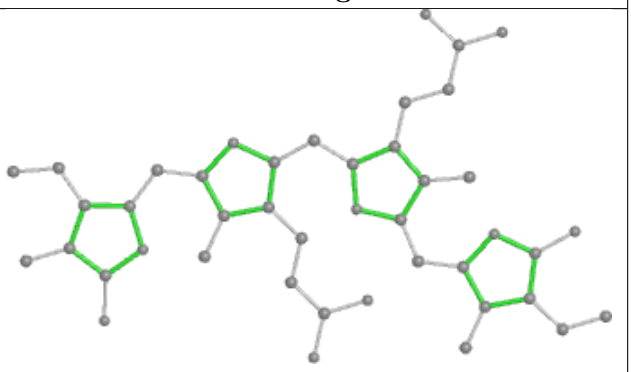
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Bond angles

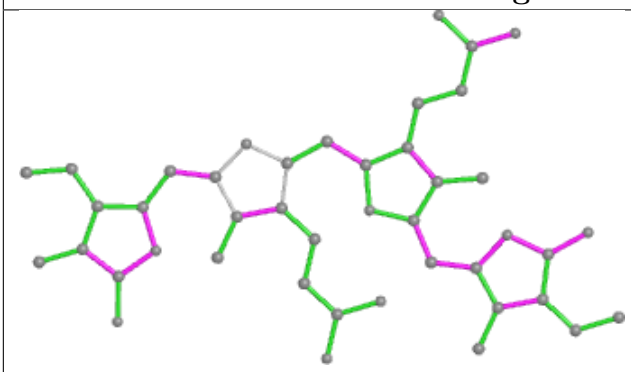


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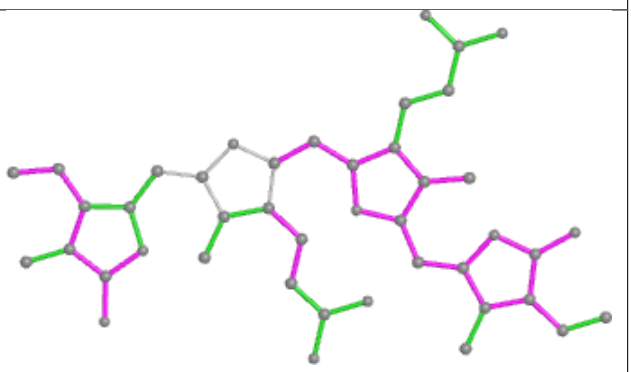


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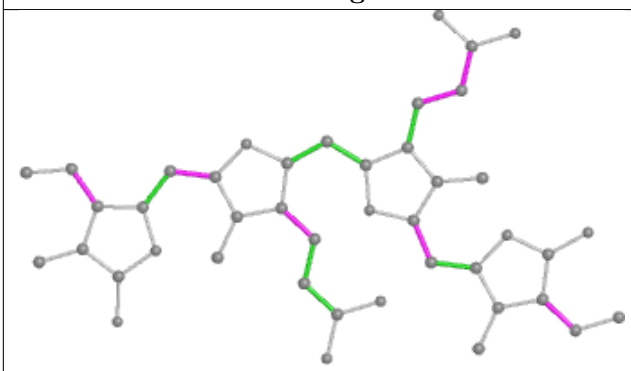
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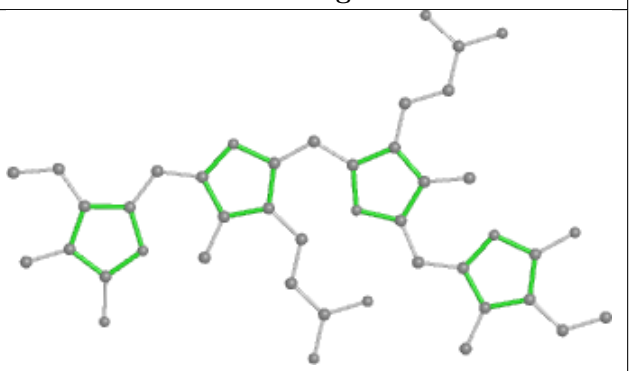
Bond lengths



Bond angles

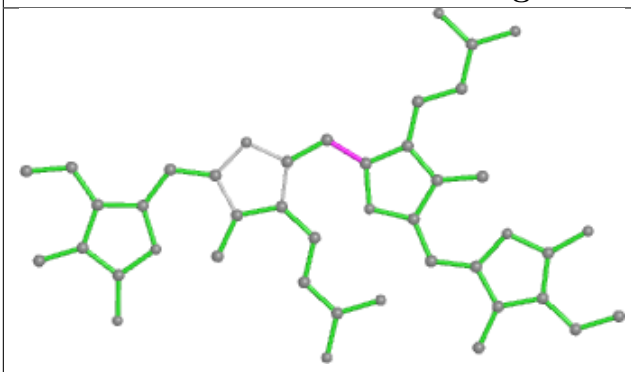


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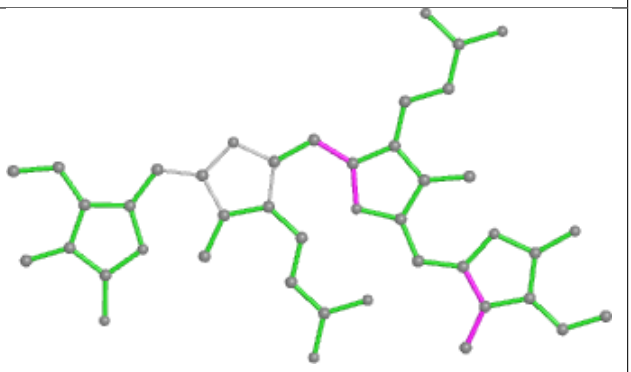


Rings

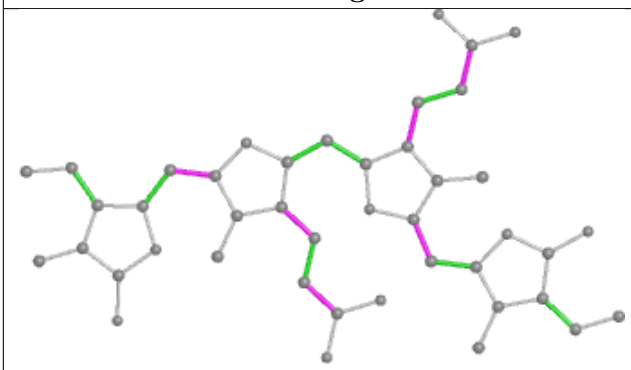
Ligand CYC X4 202



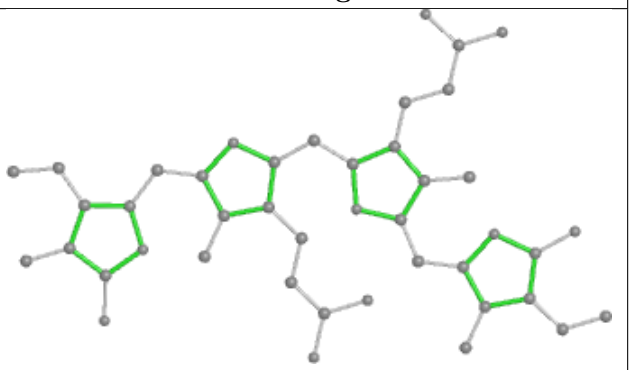
Bond lengths



Bond angles

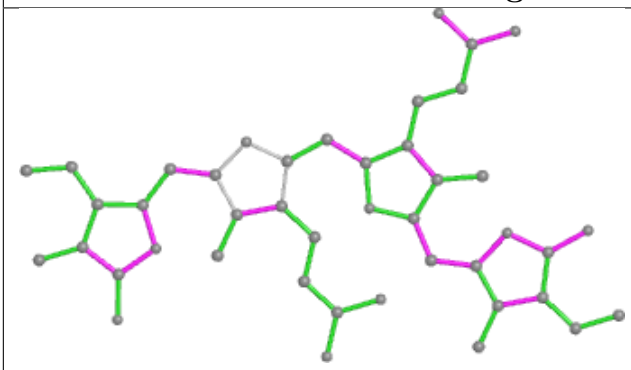


Torsions

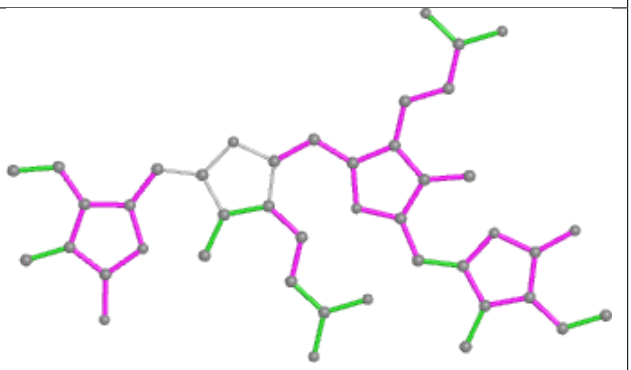


Rings

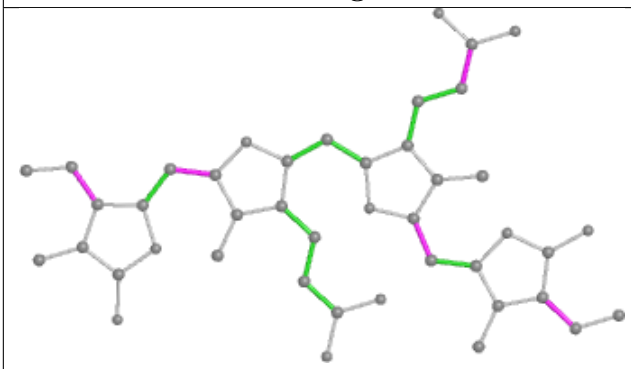
Ligand CYC Z7 1001



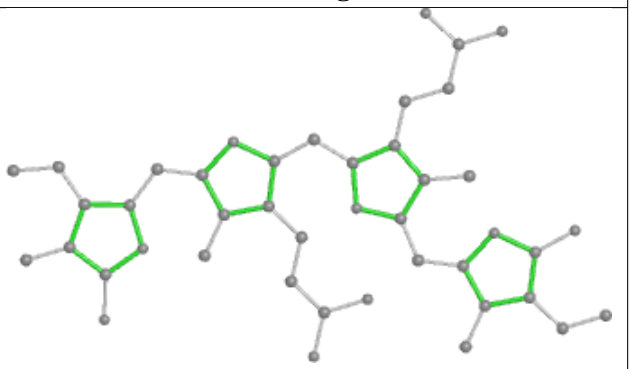
Bond lengths



Bond angles

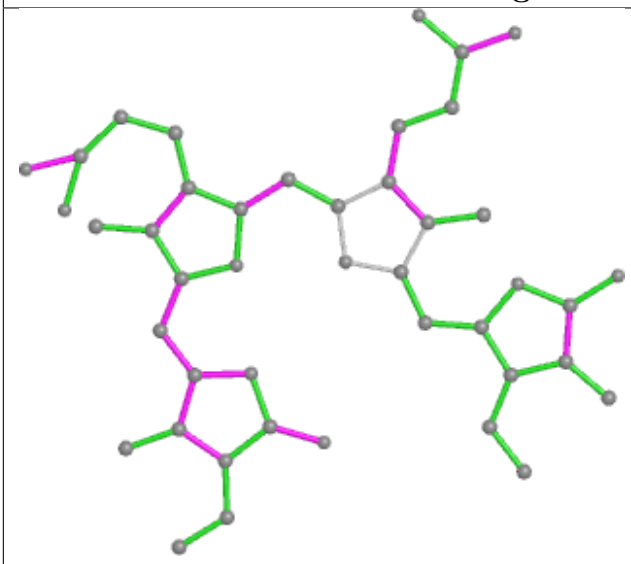


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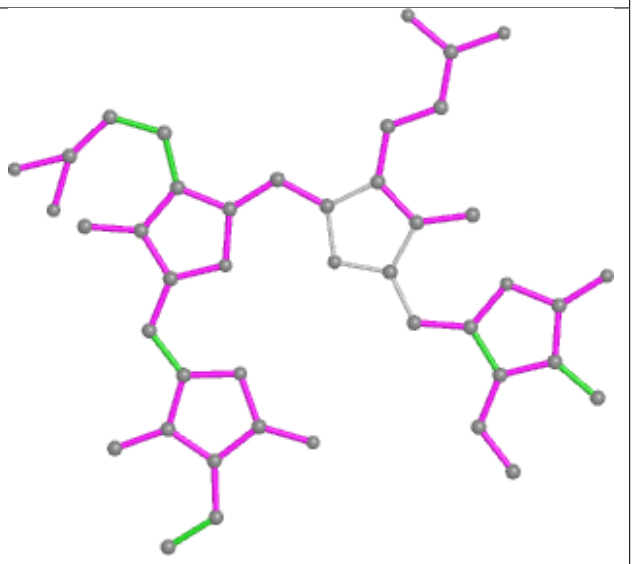


Rings

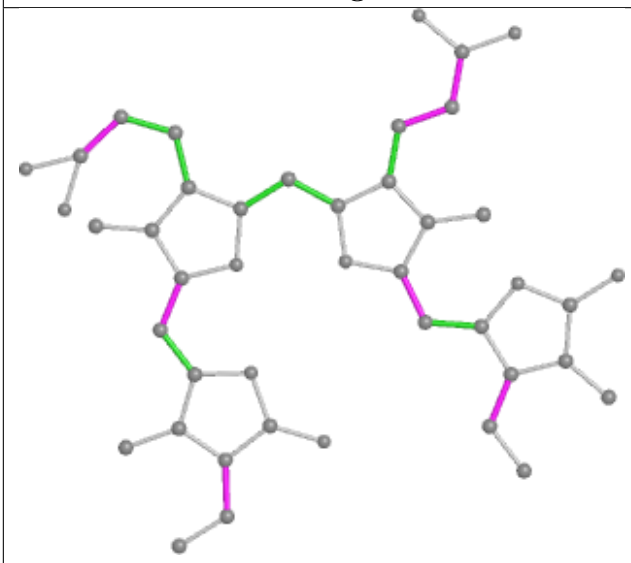
Ligand CYC O1 201



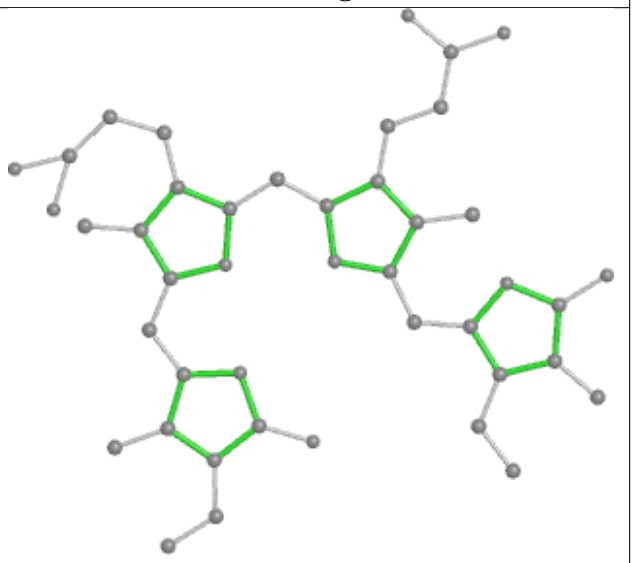
Bond lengths



Bond angles

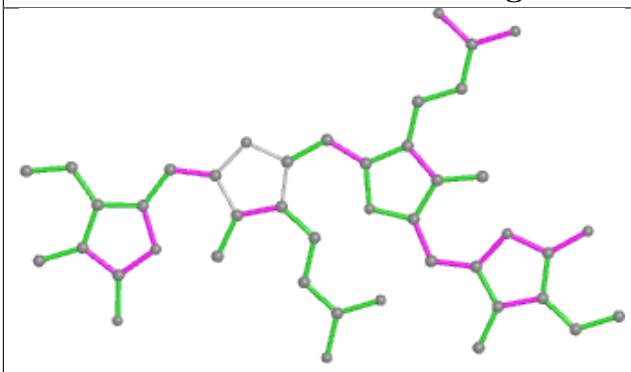


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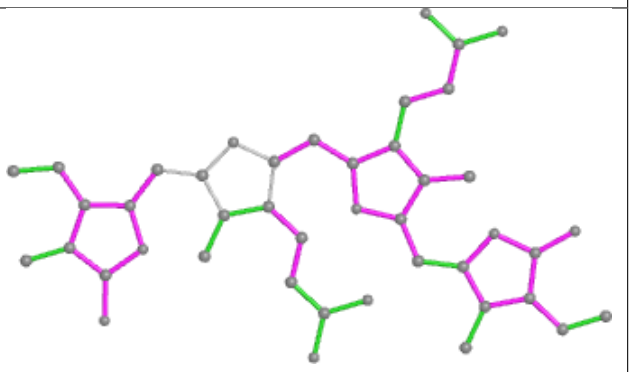


Rings

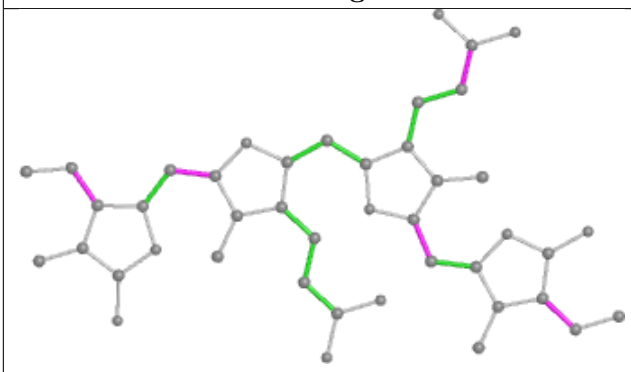
Ligand CYC E7 1001



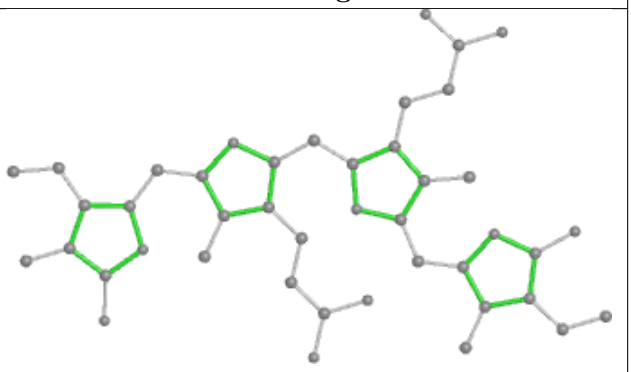
Bond lengths



Bond angles

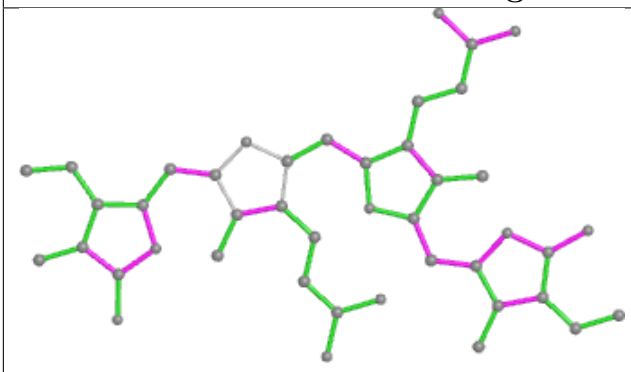


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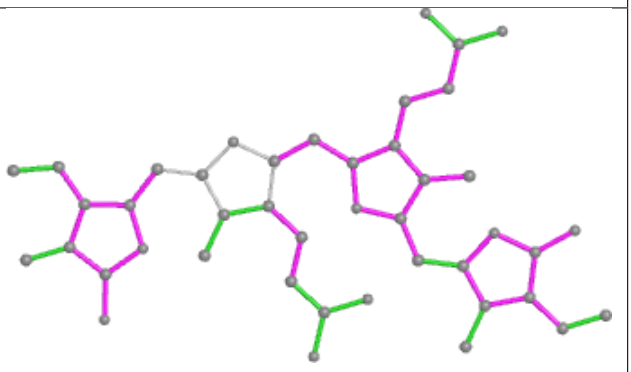


Rings

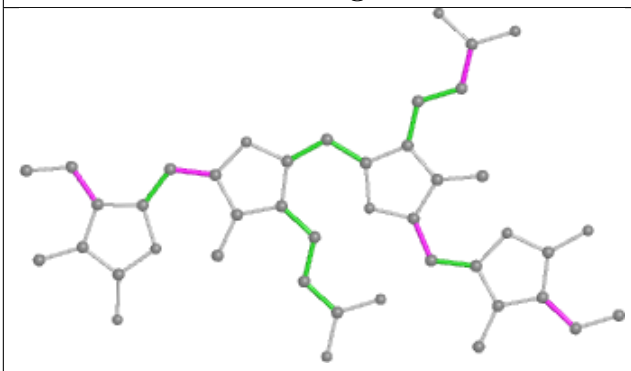
Ligand CYC L7 1001



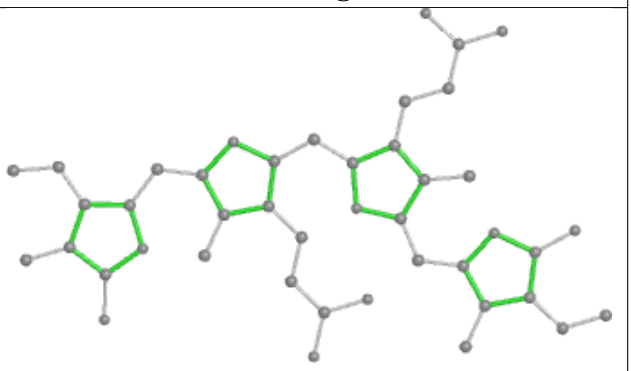
Bond lengths



Bond angles

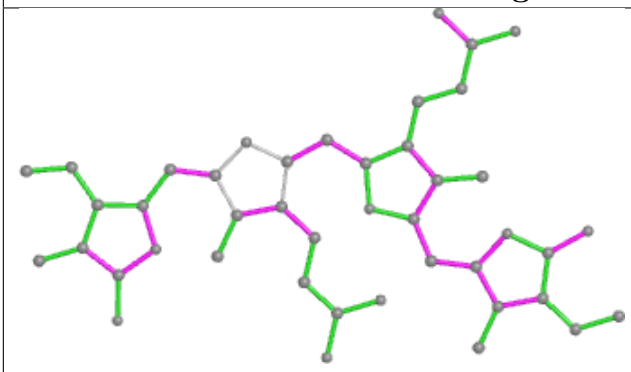


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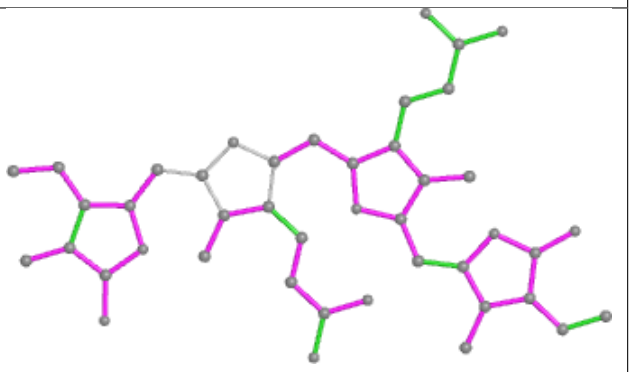


Rings

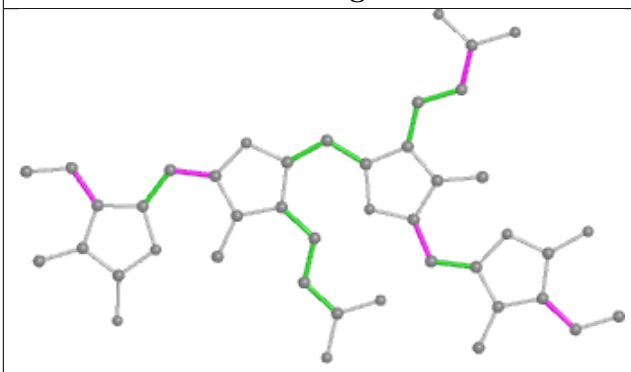
Ligand CYC K8 201



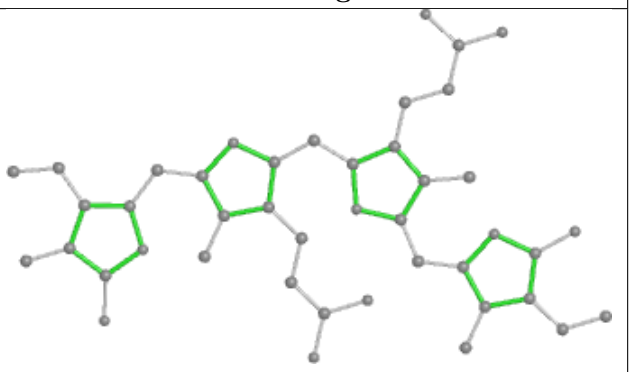
Bond lengths



Bond angles

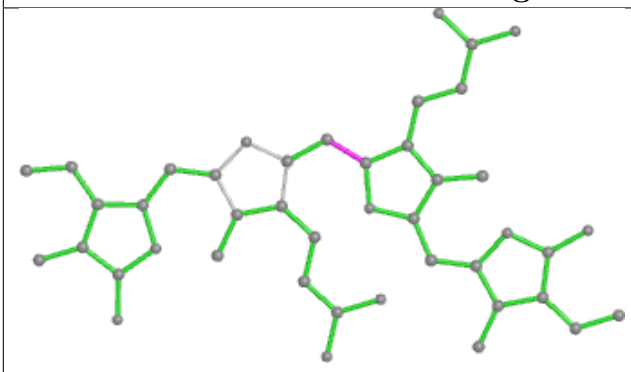


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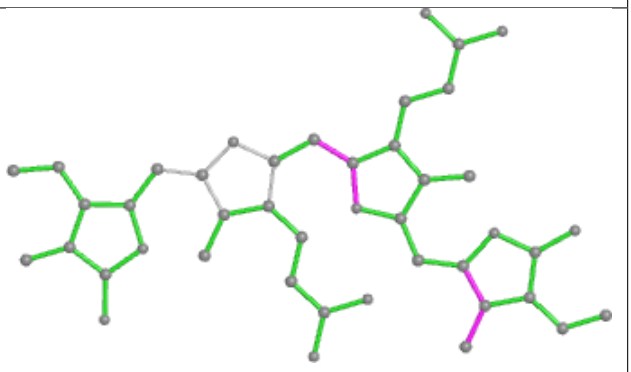


Rings

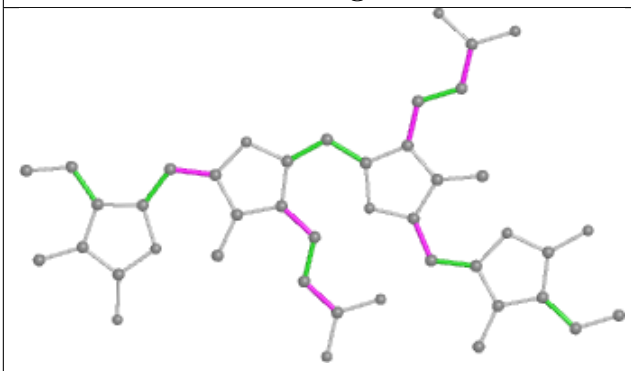
Ligand CYC X8 202



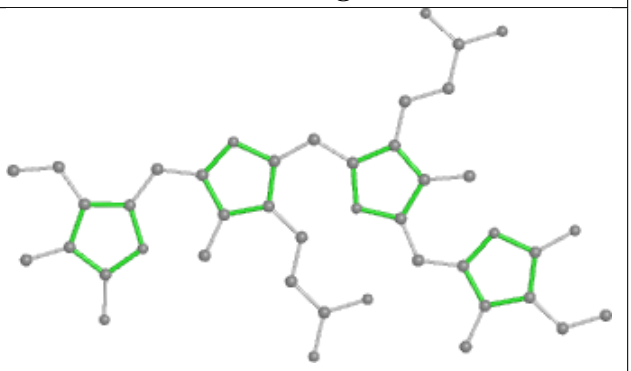
Bond lengths



Bond angles

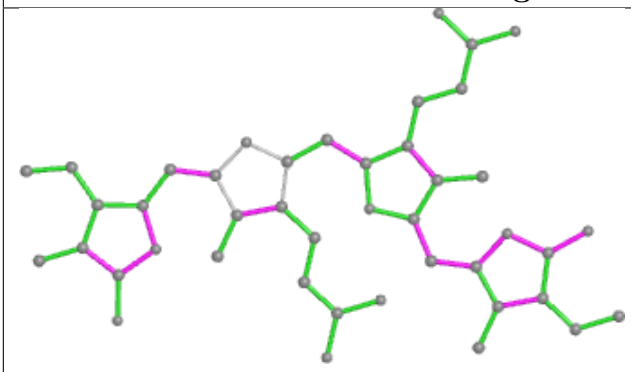


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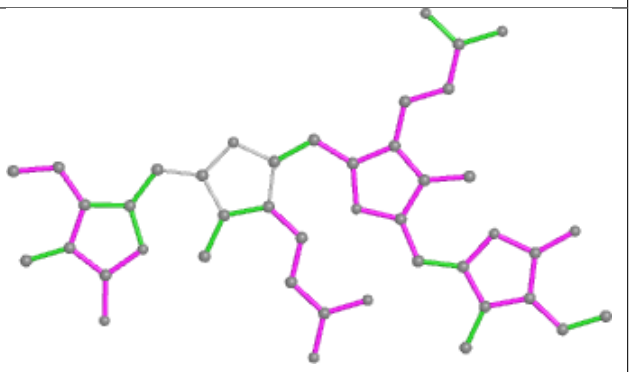


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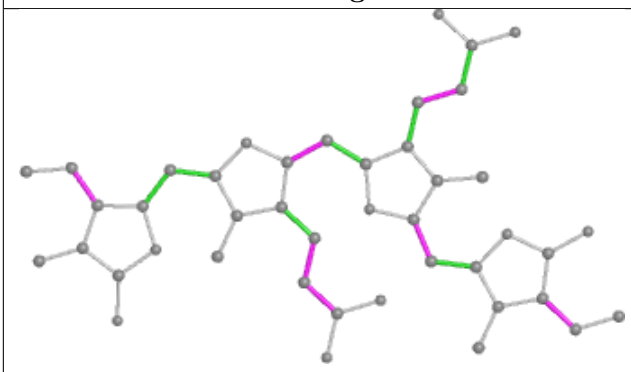
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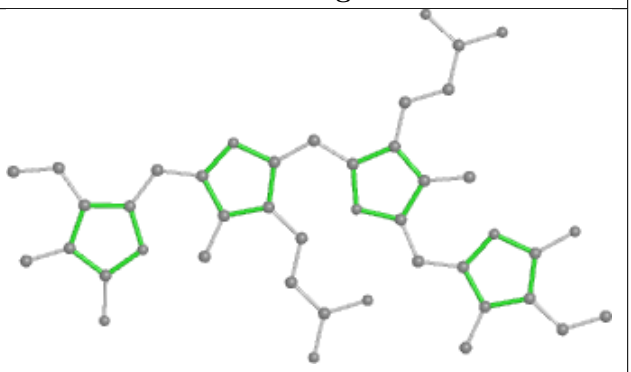
Bond lengths



Bond angles

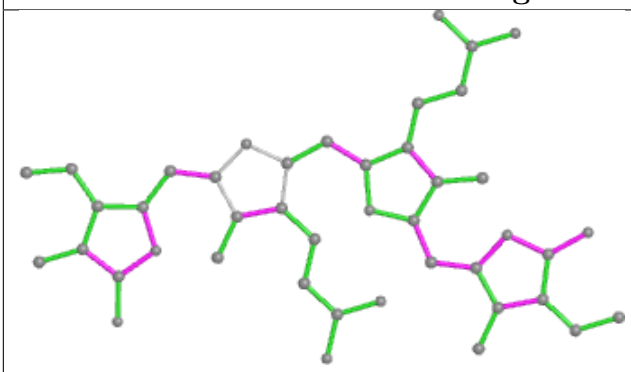


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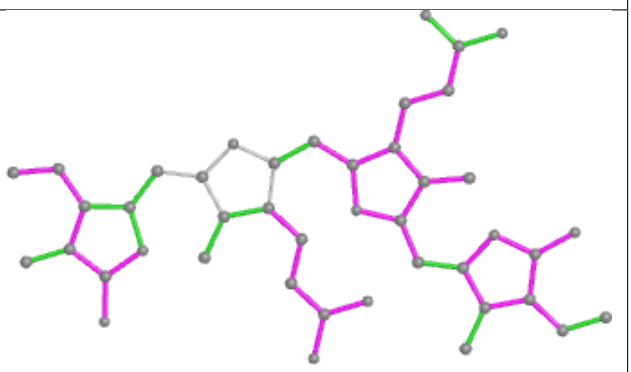


Rings

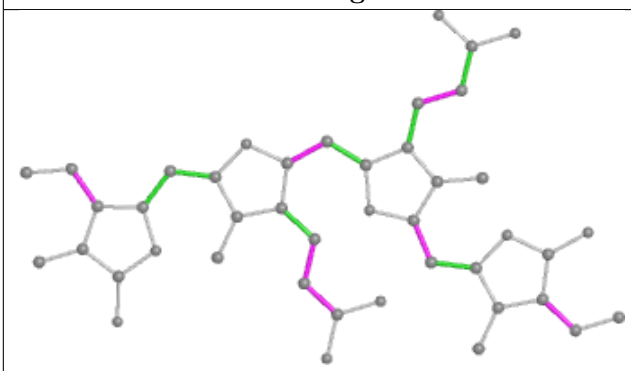
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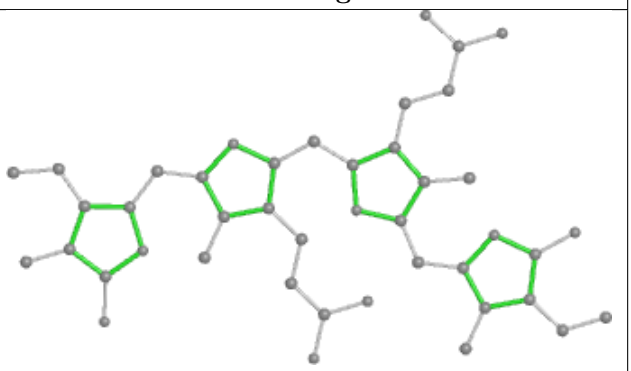
Bond lengths



Bond angles

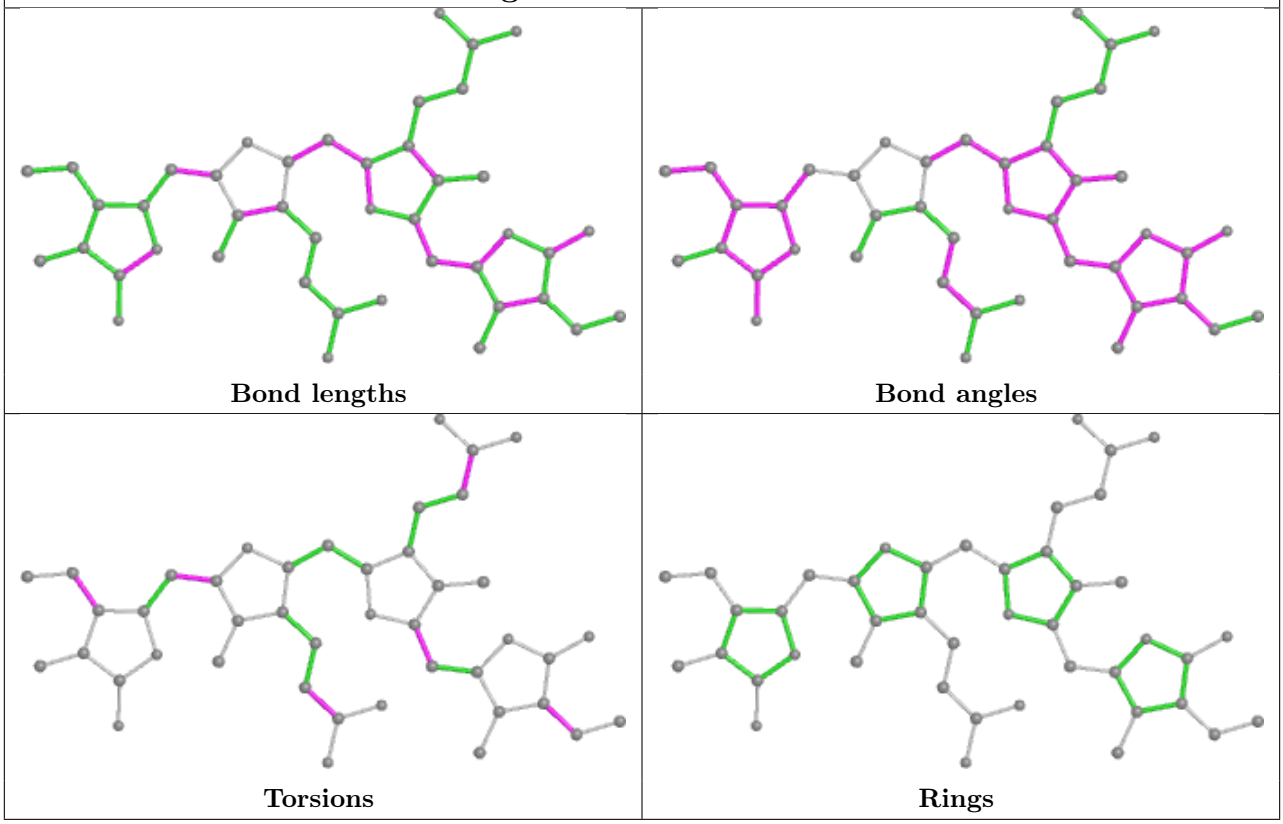


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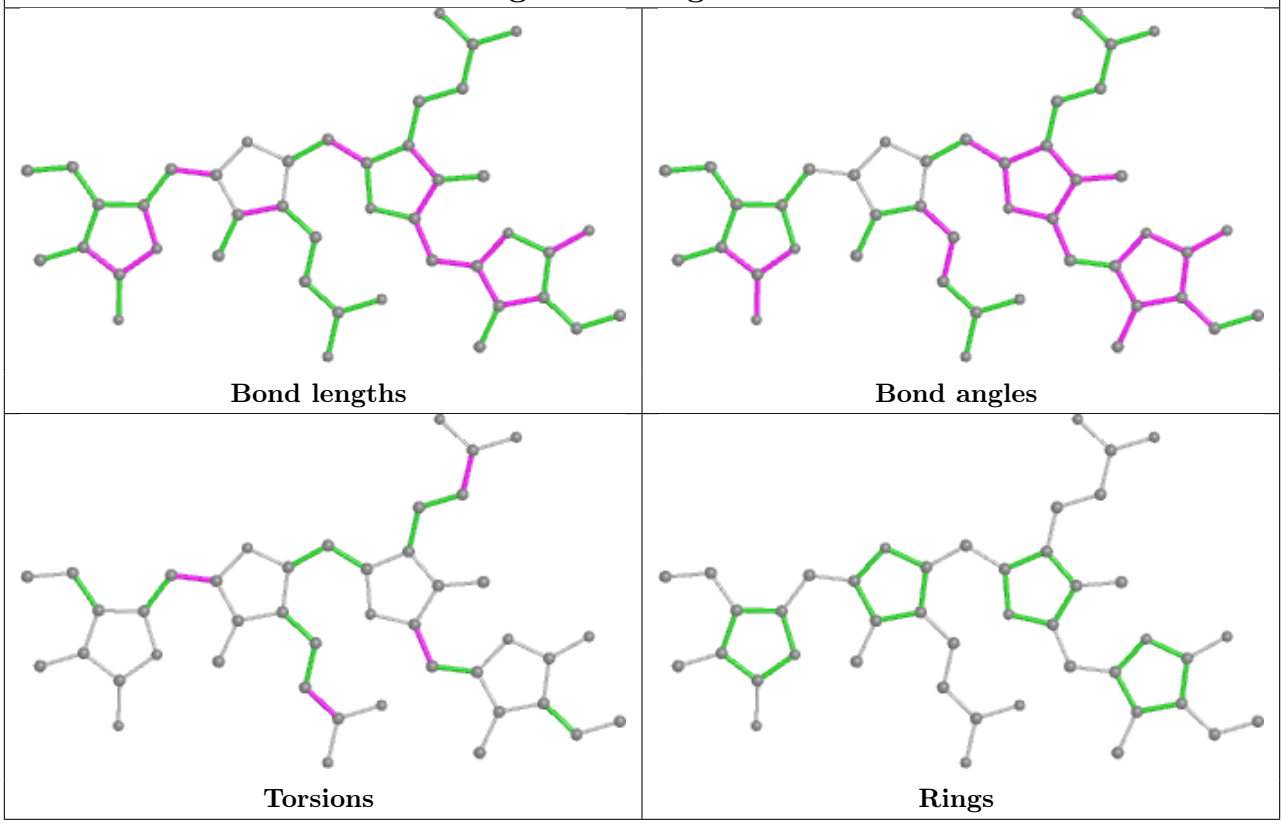


Rings

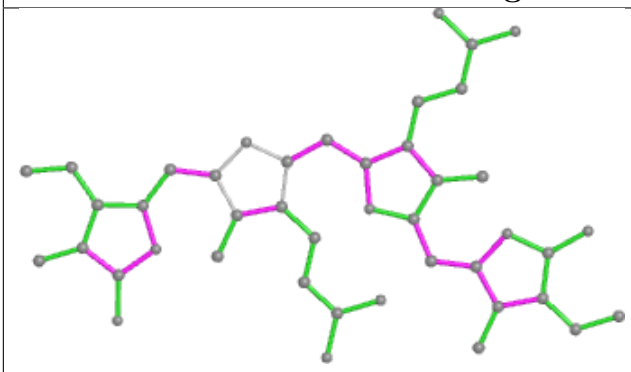
Ligand CYC M7 1001



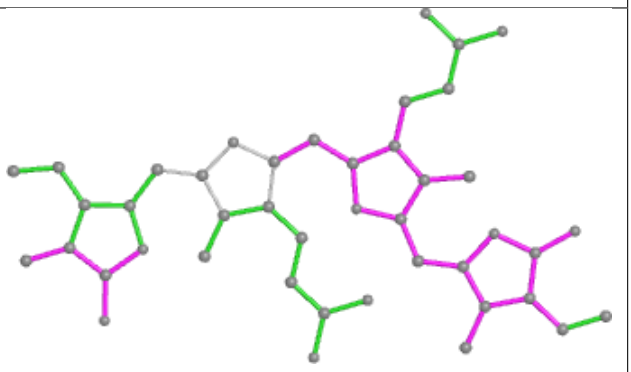
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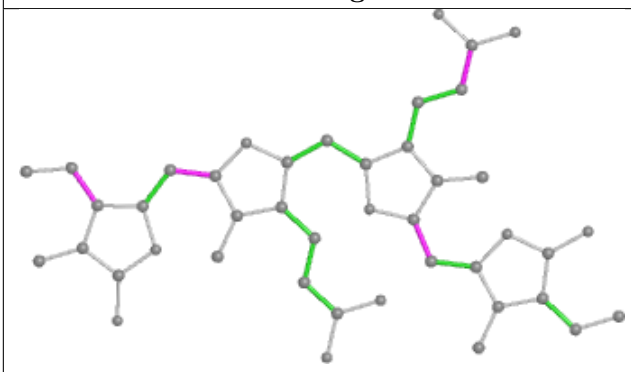
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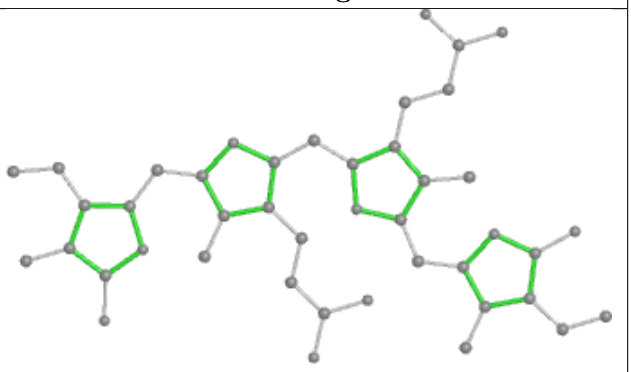
Bond lengths



Bond angles

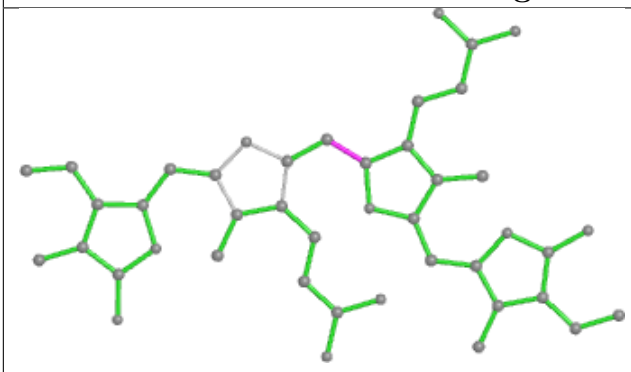


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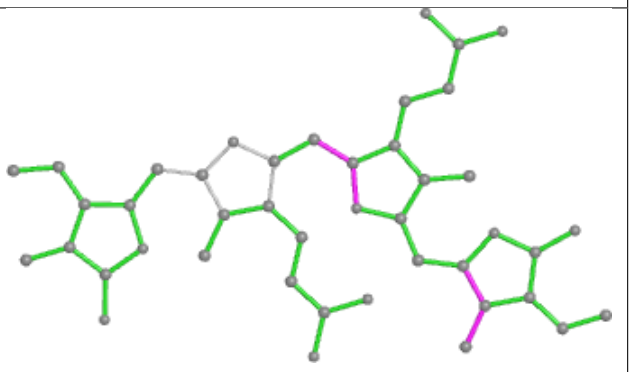


Rings

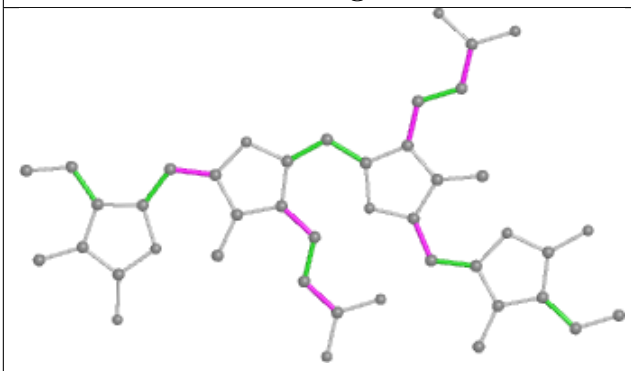
Ligand CYC T2 202



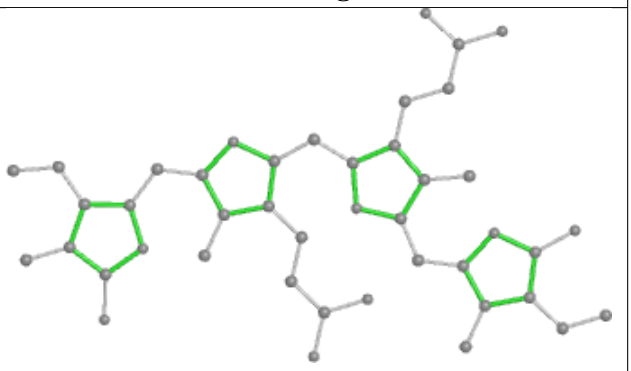
Bond lengths



Bond angles

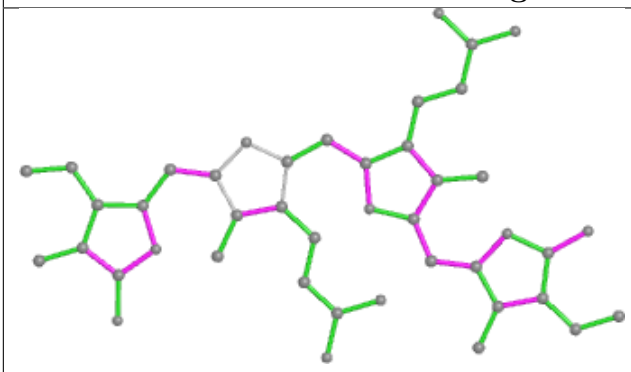


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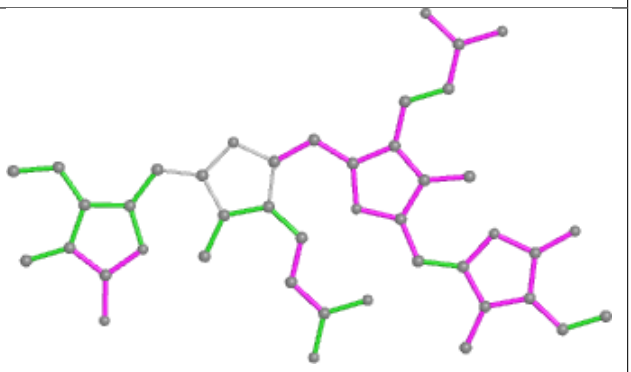


Rings

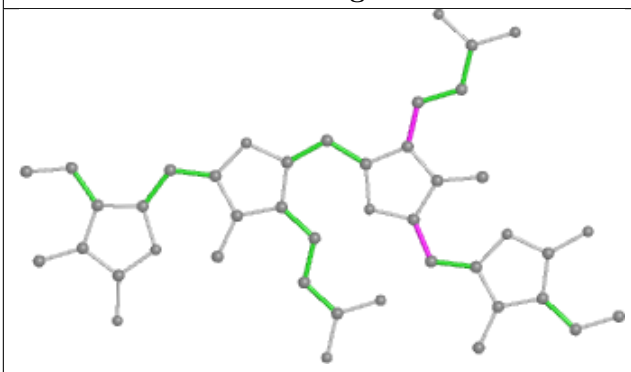
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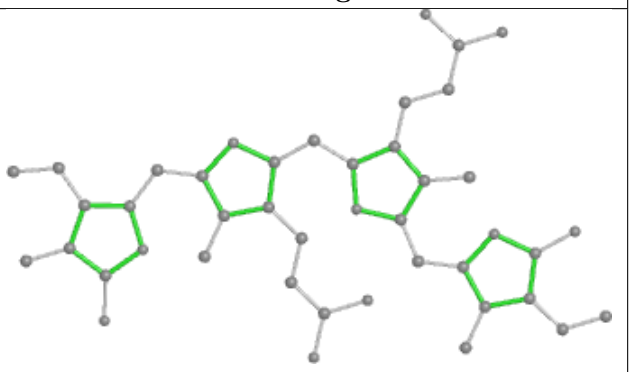
Bond lengths



Bond angles

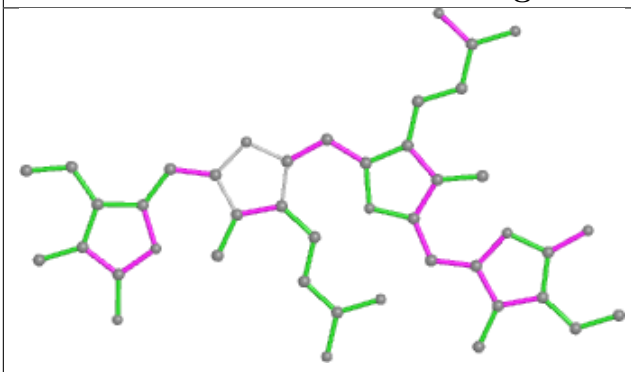


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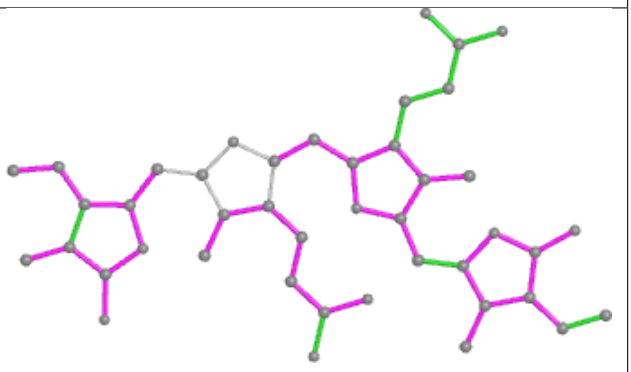


Rings

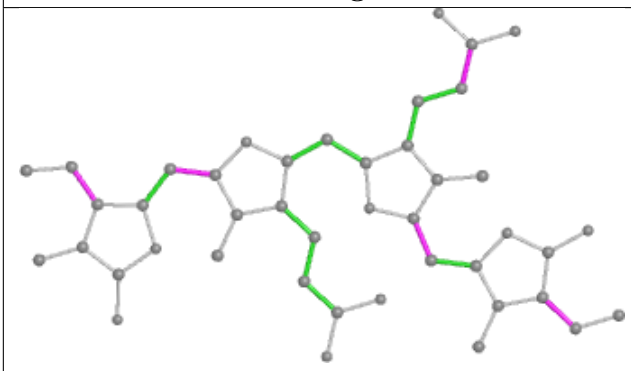
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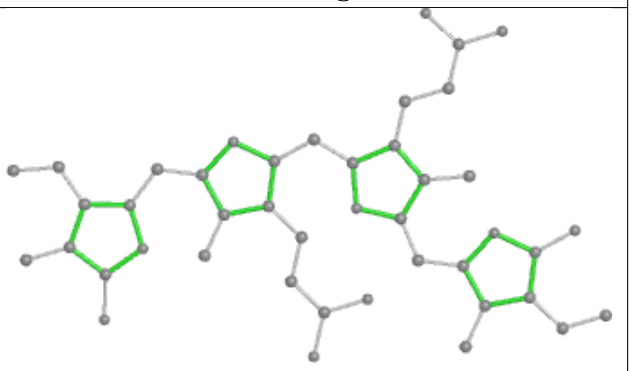
Bond lengths



Bond angles

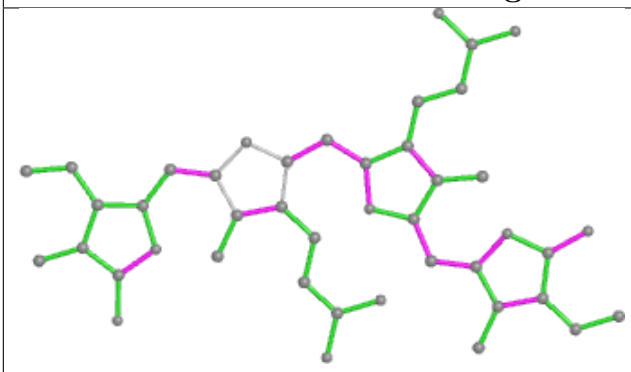


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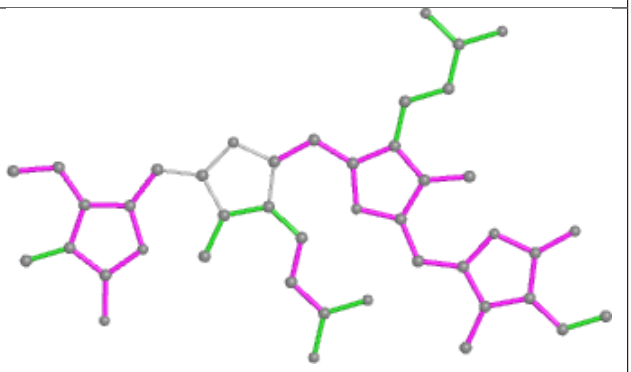


Rings

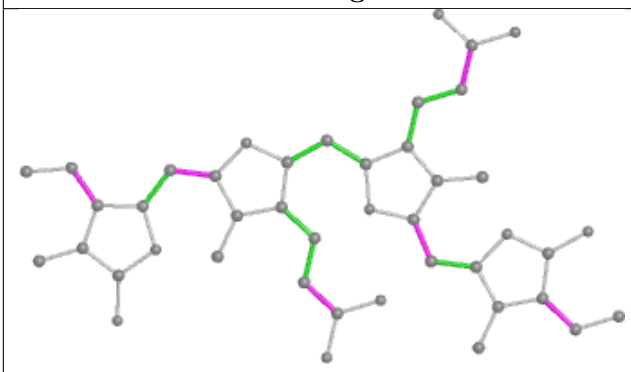
Ligand CYC B7 1001



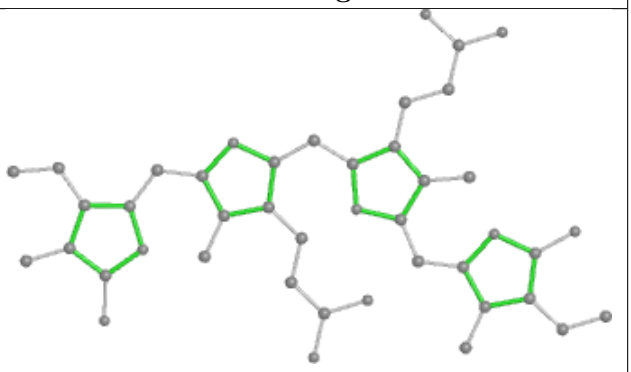
Bond lengths



Bond angles

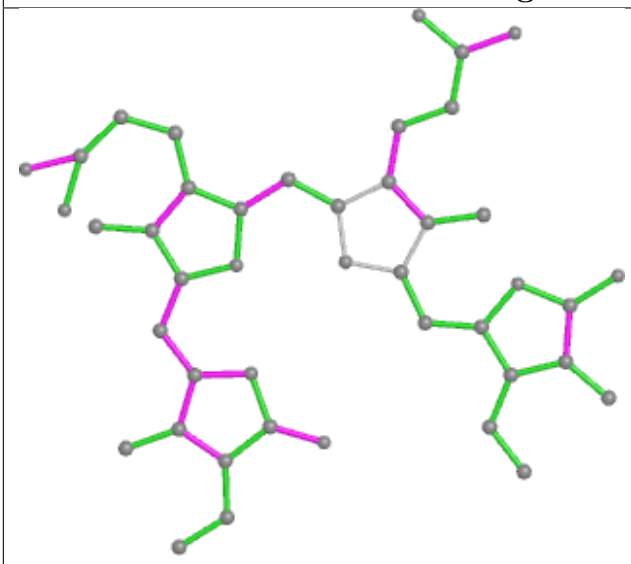


Torsions

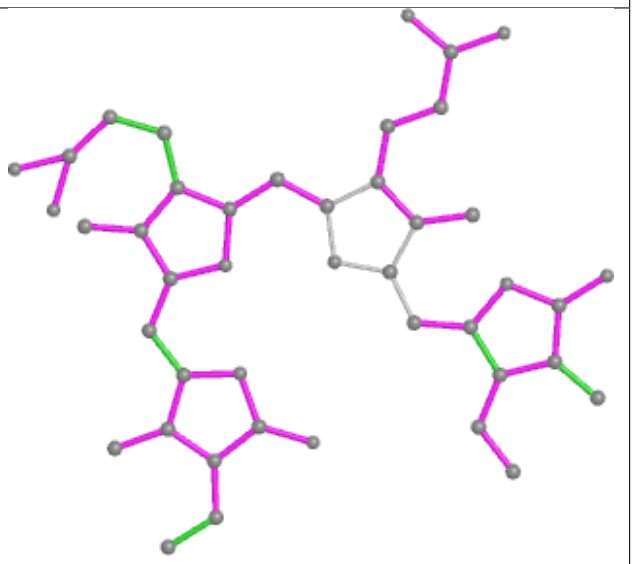


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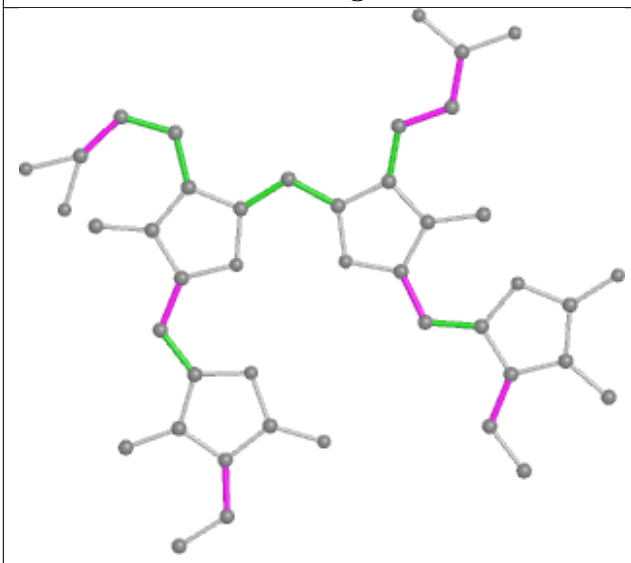
Ligand CYC J1 201



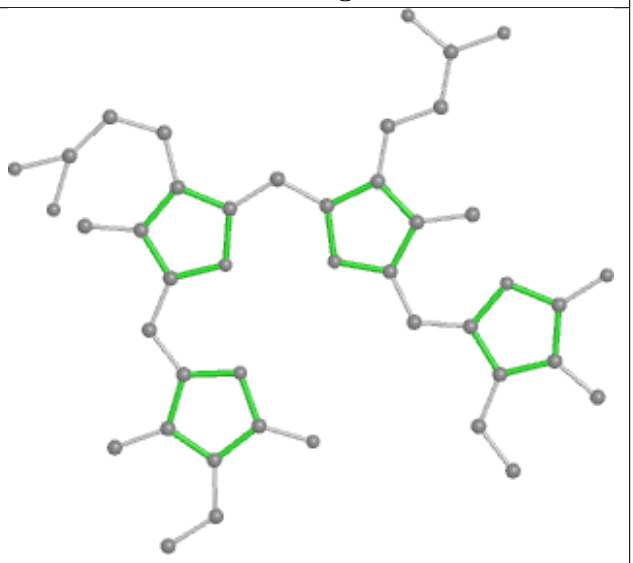
Bond lengths



Bond angles

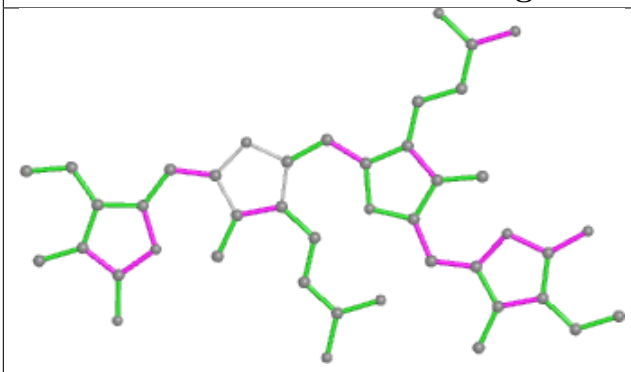


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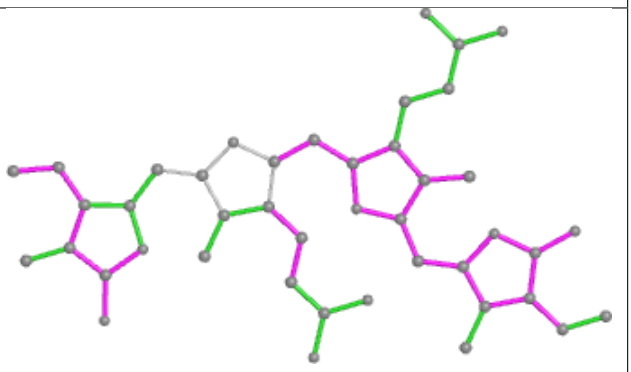


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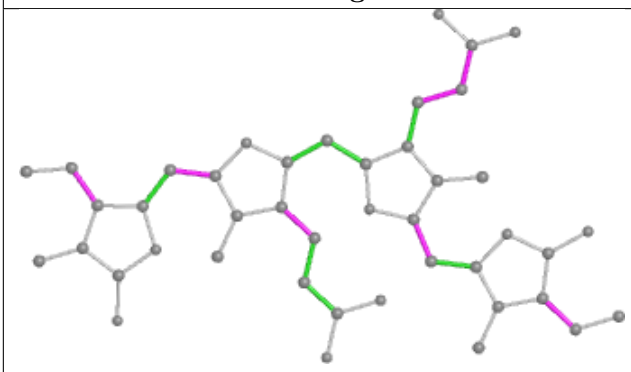
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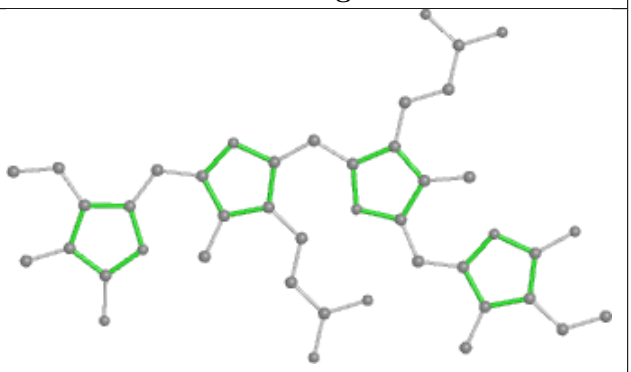
Bond lengths



Bond angles

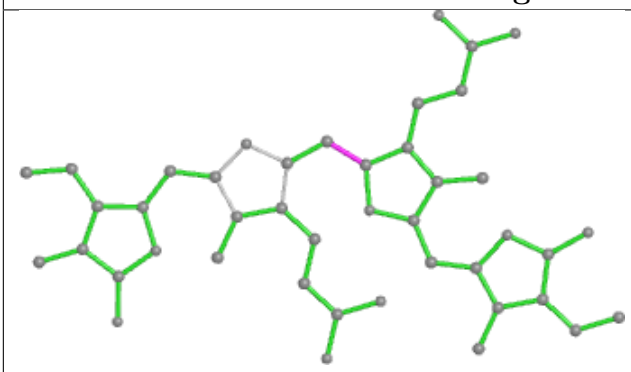


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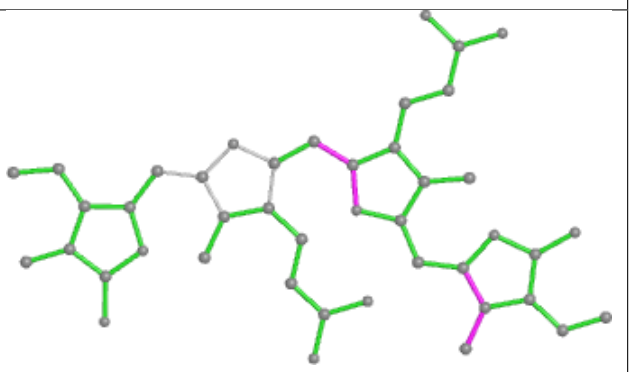


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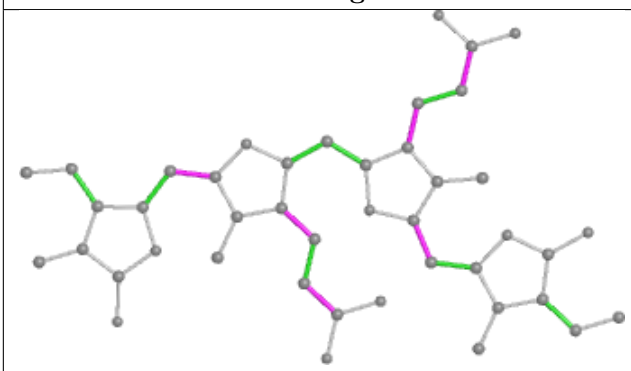
Ligand CYC C4 201



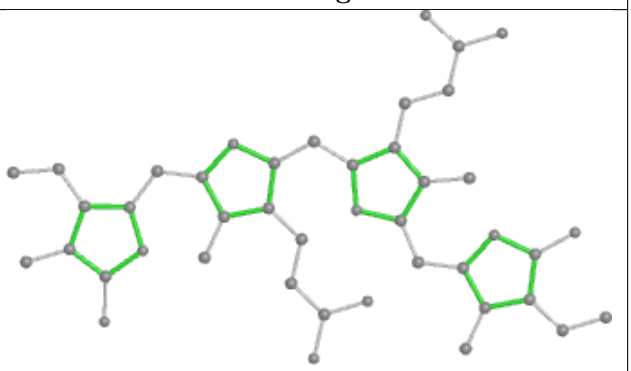
Bond lengths



Bond angles

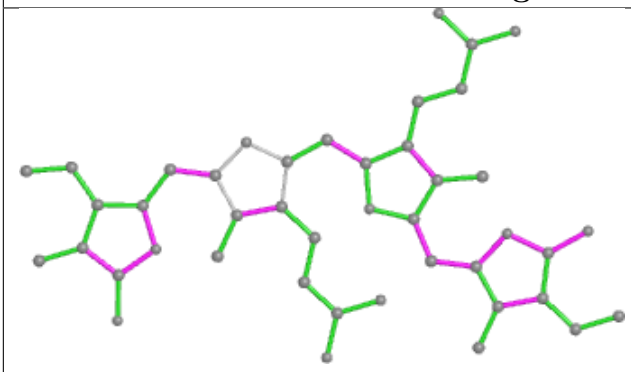


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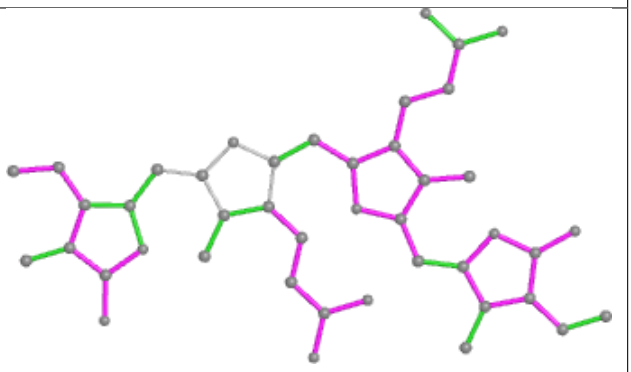


Rings

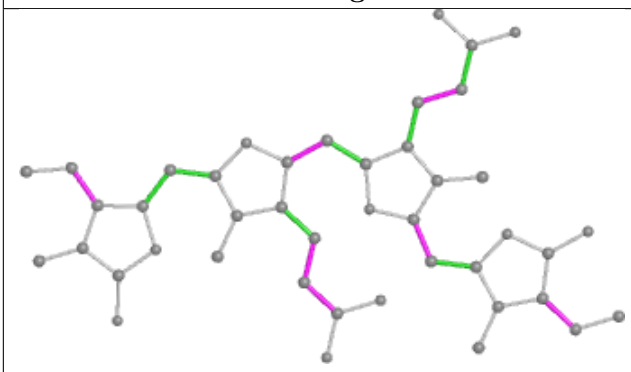
Ligand CYC R6 202



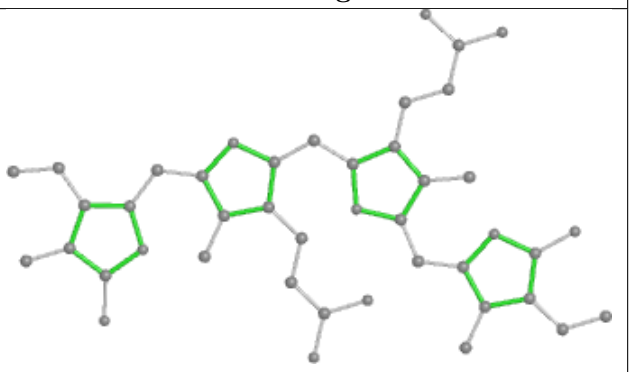
Bond lengths



Bond angles

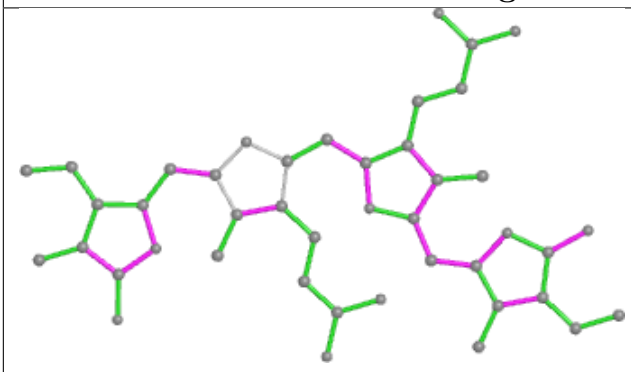


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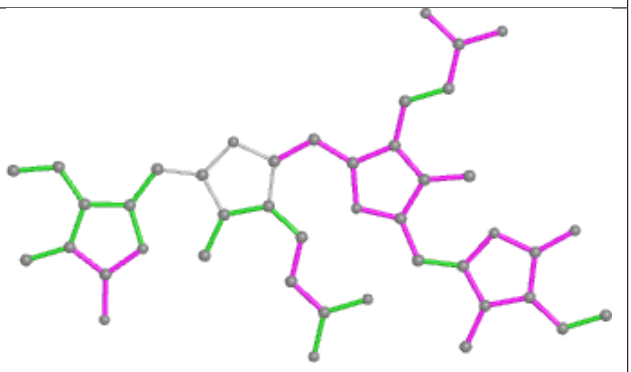


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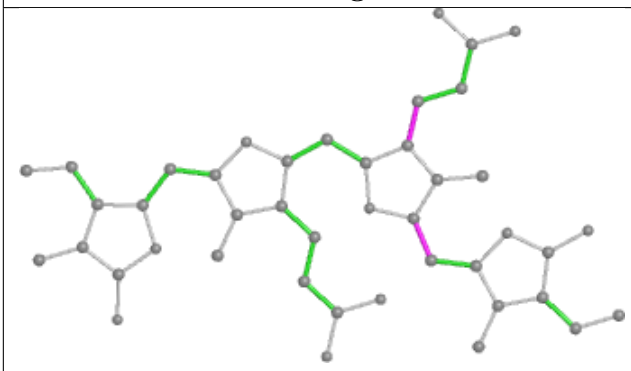
Ligand CYC W3 1001



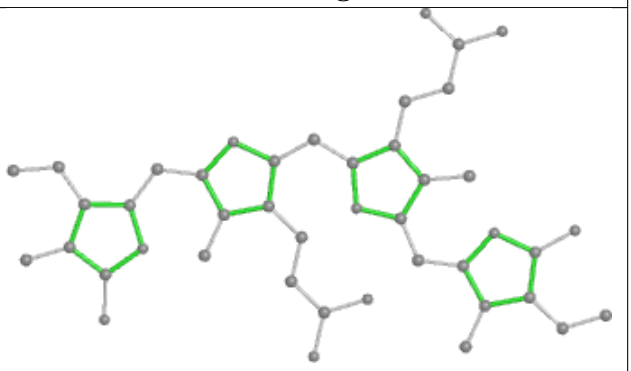
Bond lengths



Bond angles

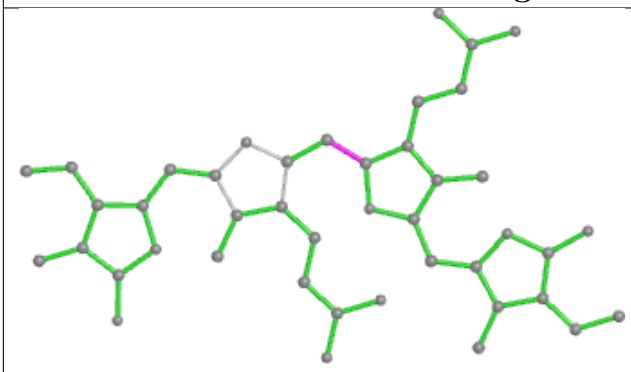


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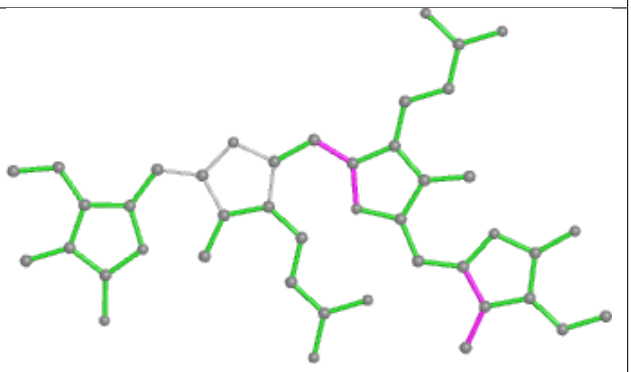


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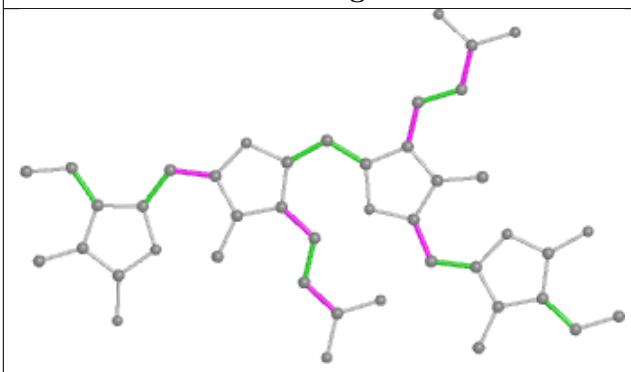
Ligand CYC T4 202



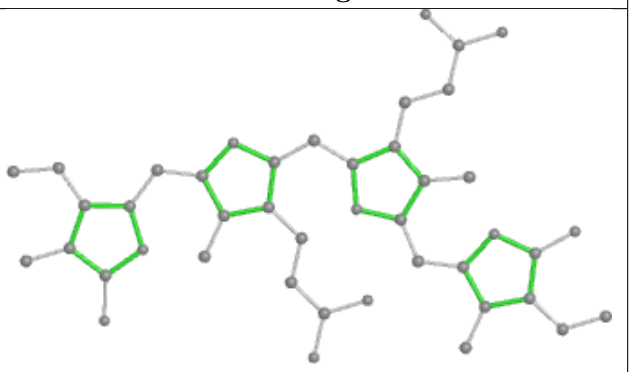
Bond lengths



Bond angles

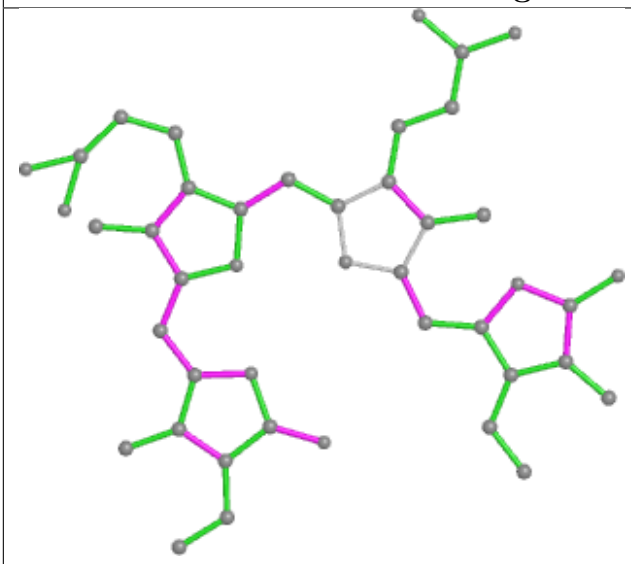


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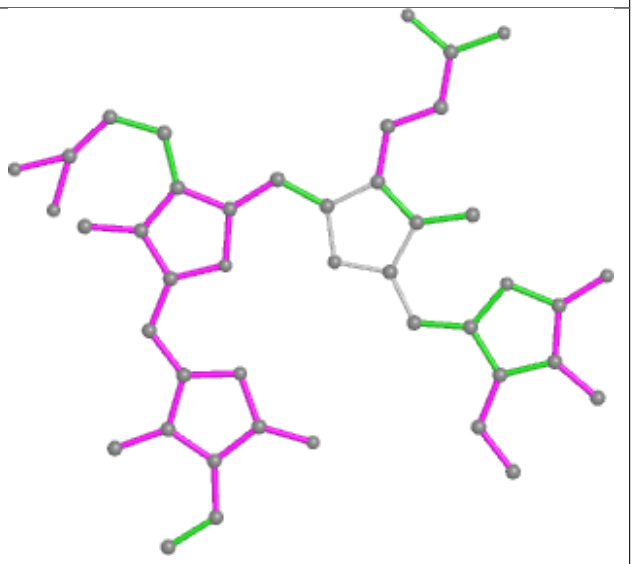


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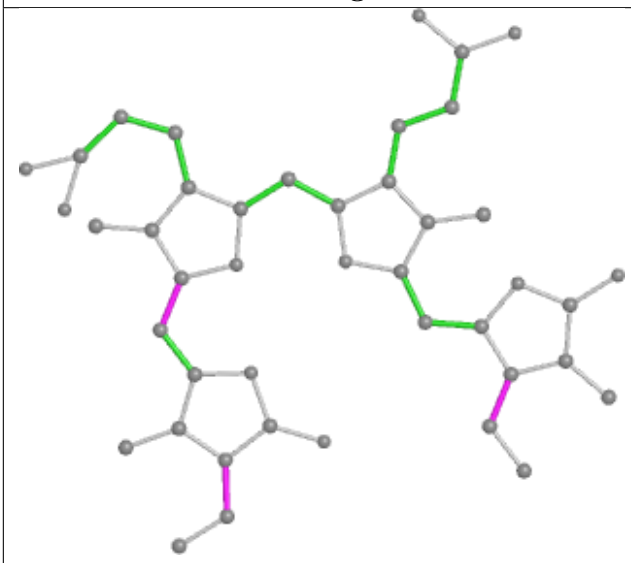
Ligand CYC P2 201



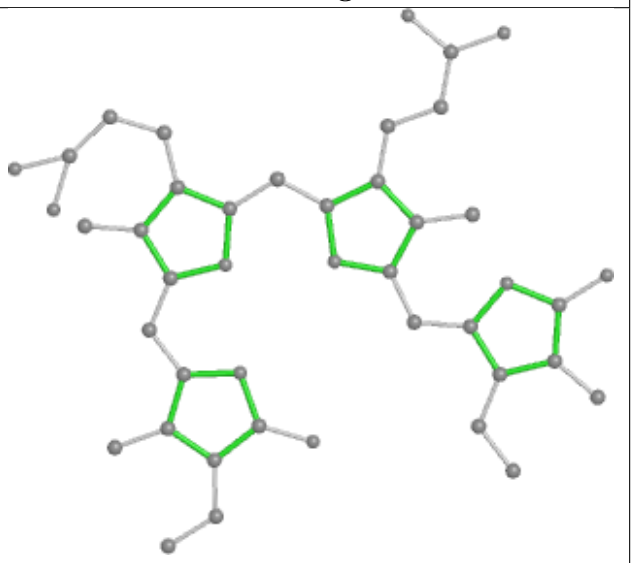
Bond lengths



Bond angles

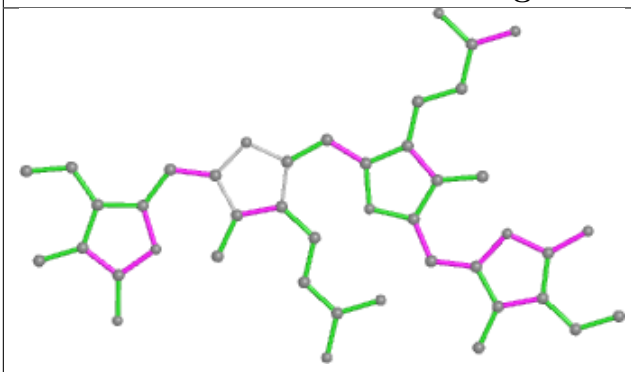


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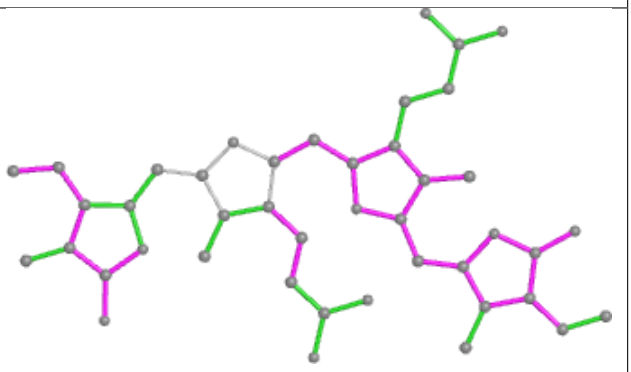


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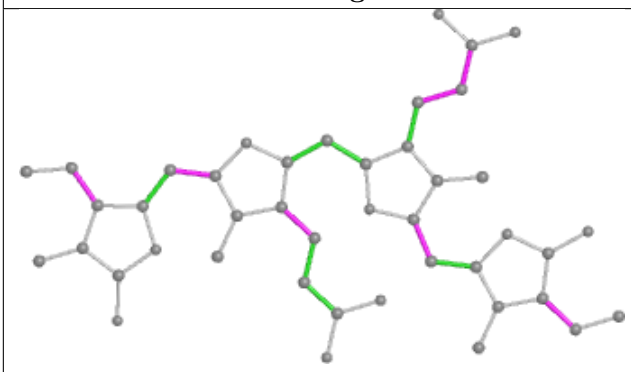
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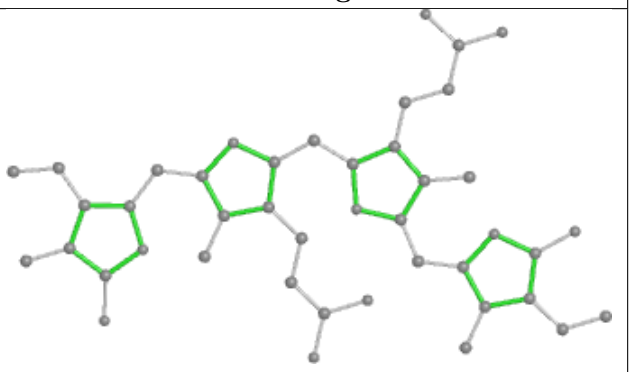
Bond lengths



Bond angles

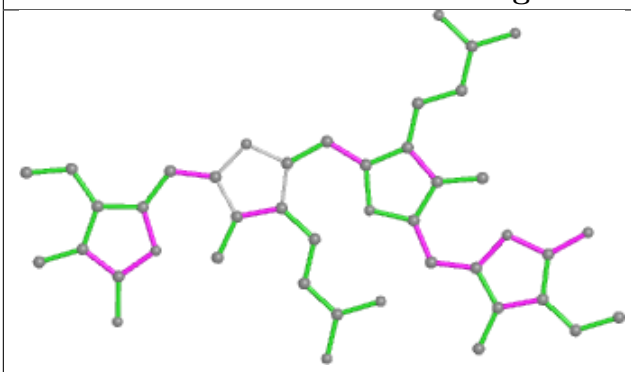


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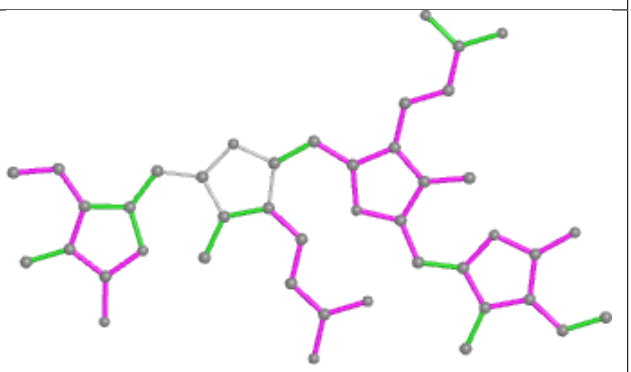


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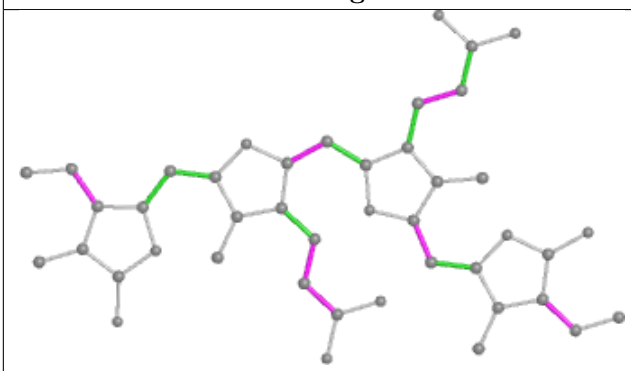
Ligand CYC Y6 201



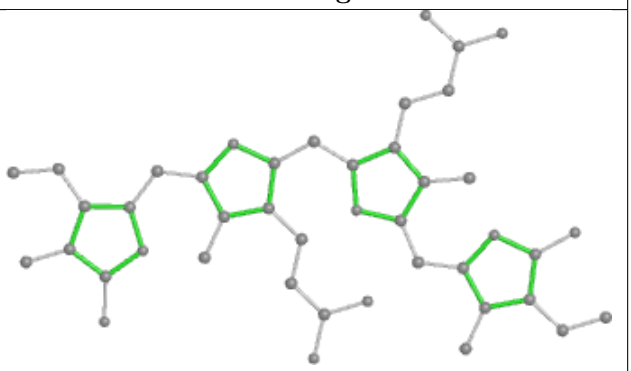
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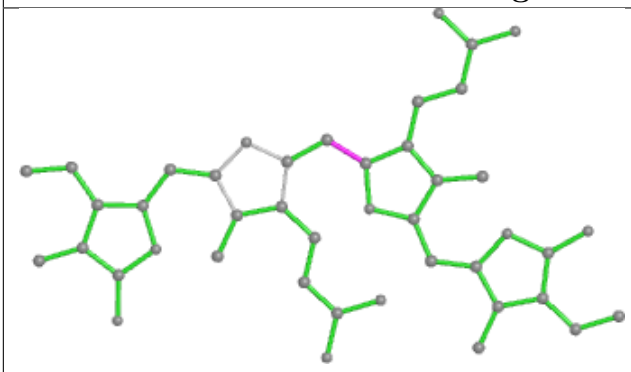


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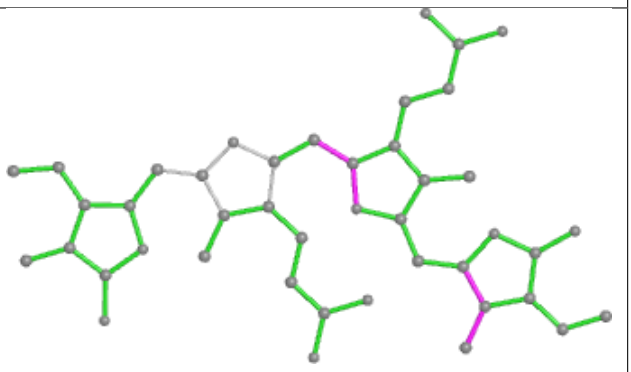


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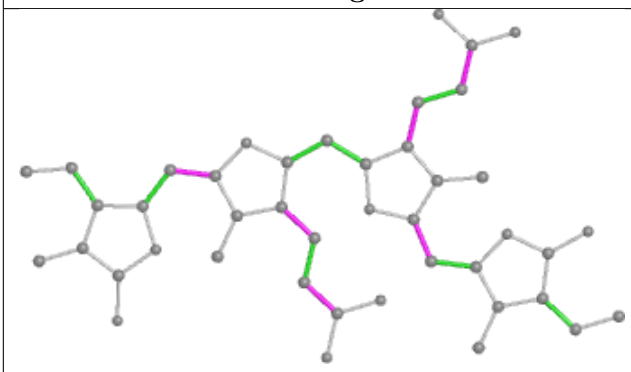
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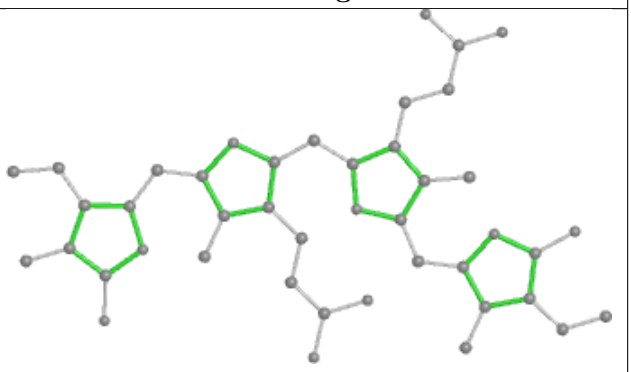
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Bond angles

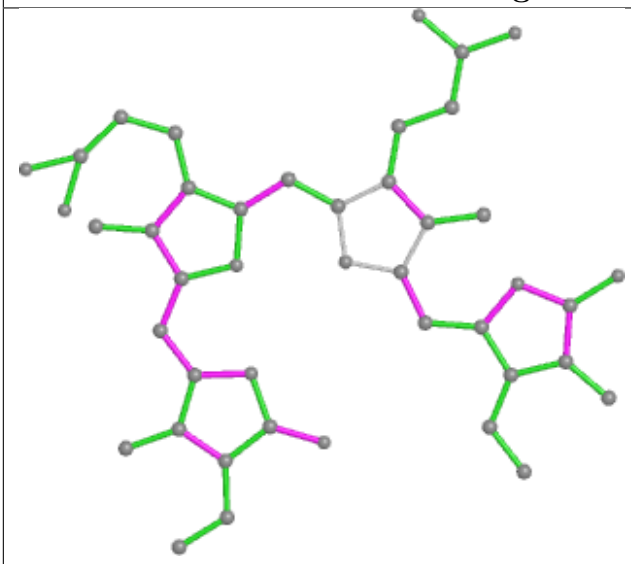


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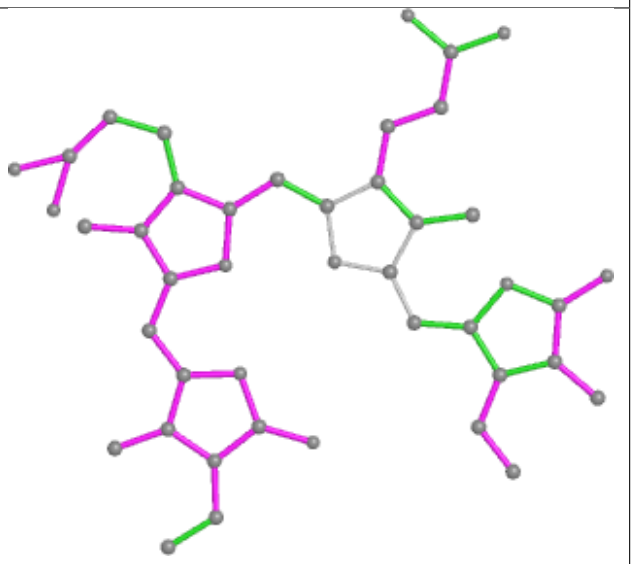


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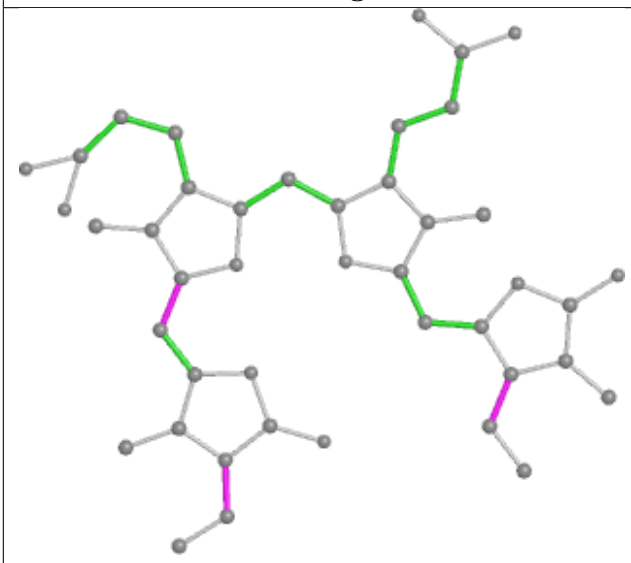
Ligand CYC A2 301



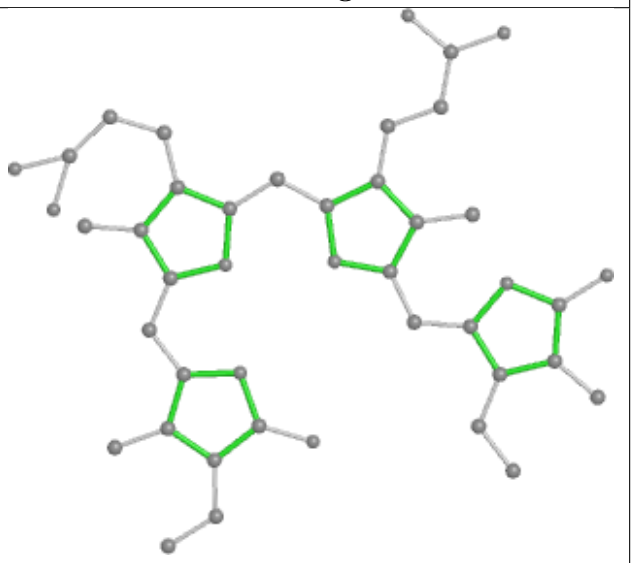
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Bond angles

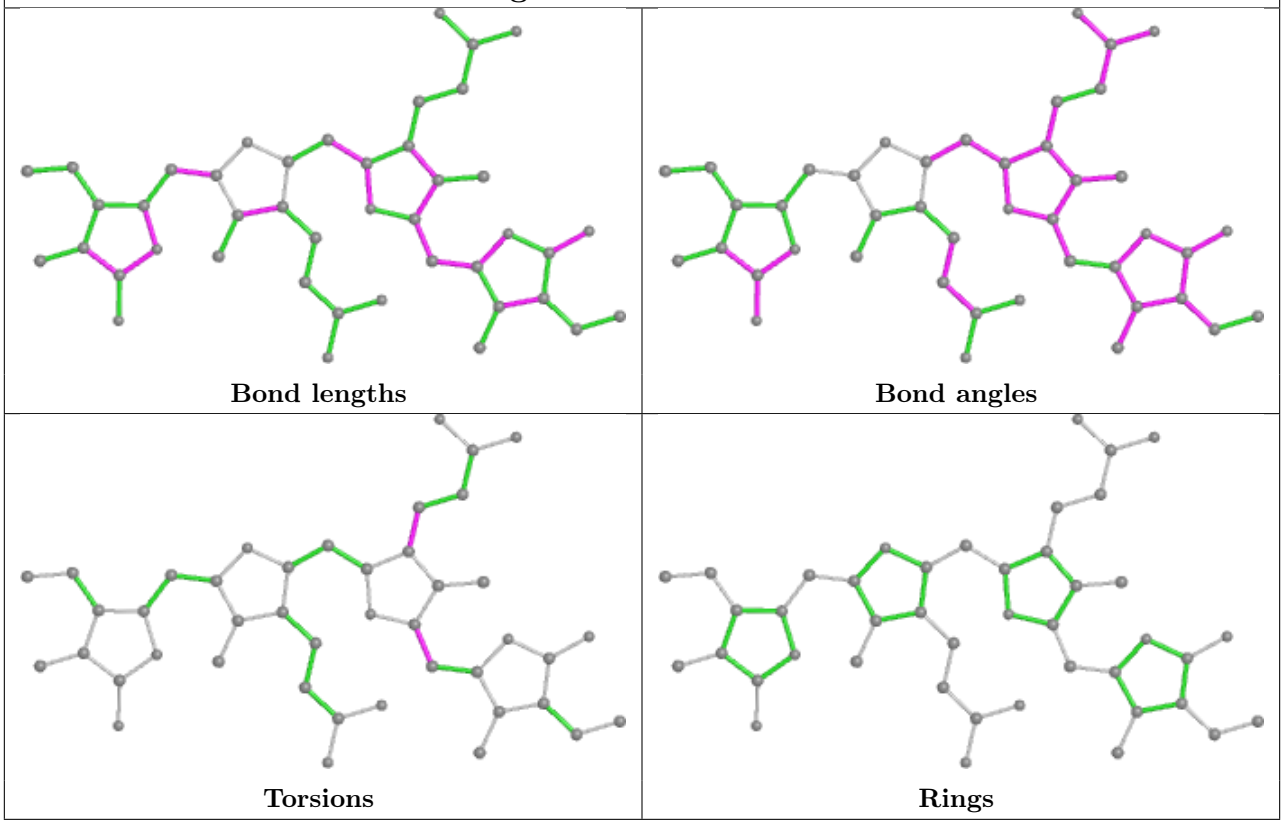


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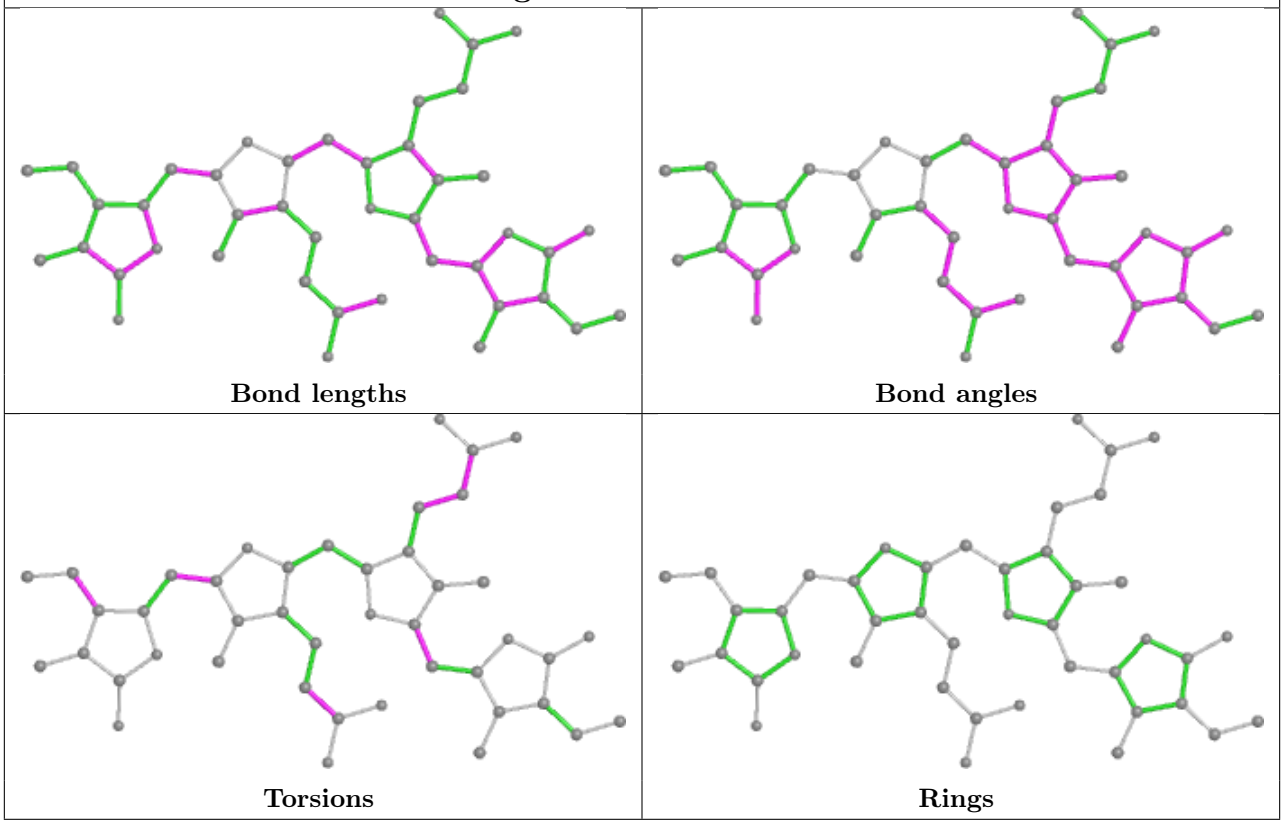


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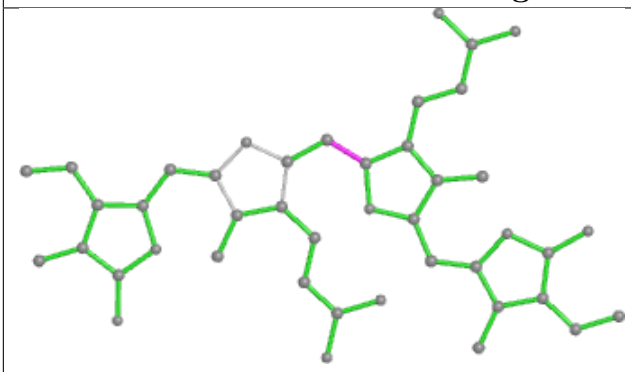
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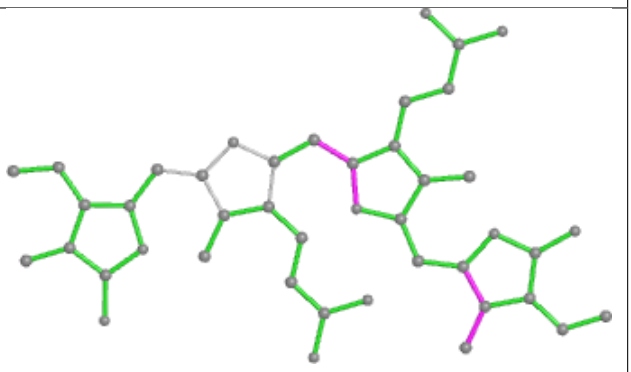
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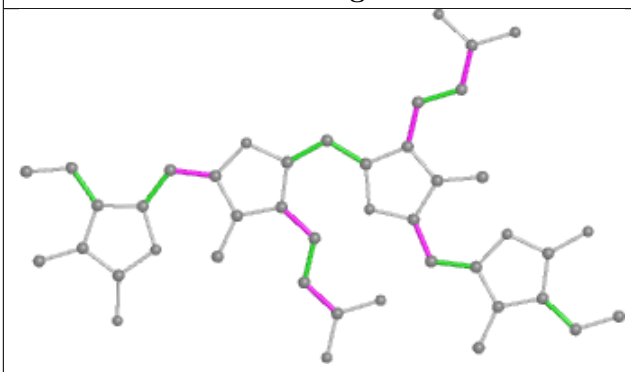
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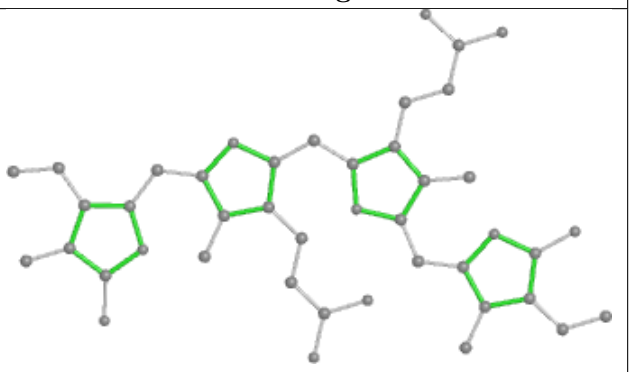
Bond lengths



Bond angles

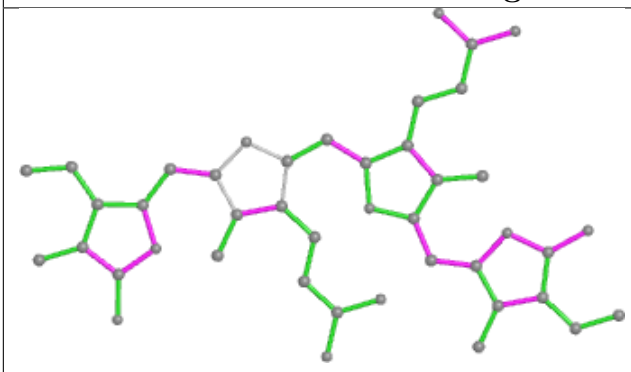


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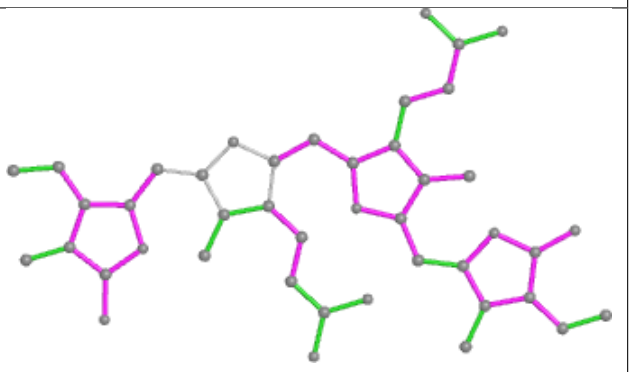


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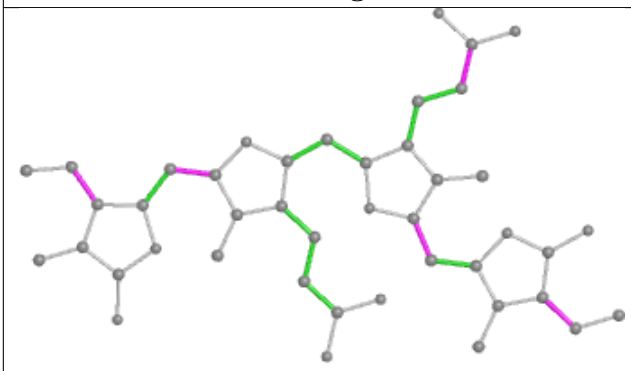
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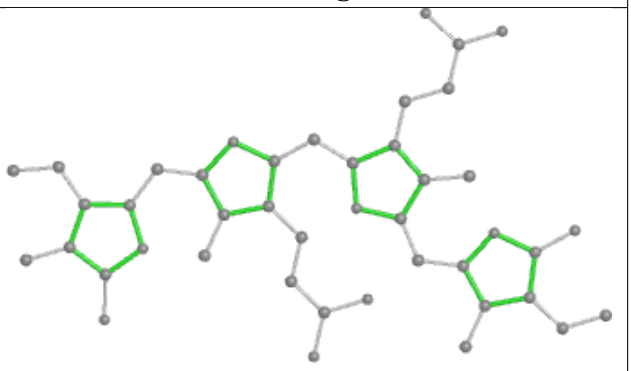
Bond lengths



Bond angles

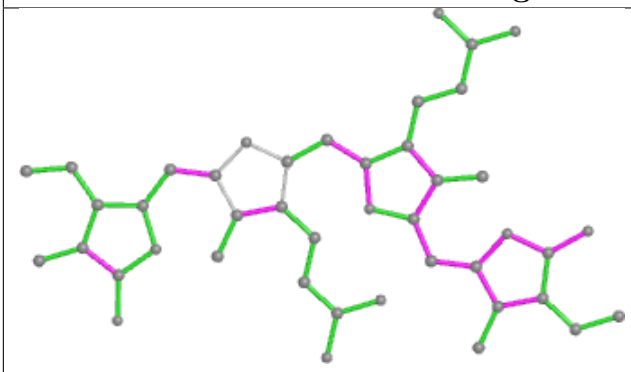


Torsions

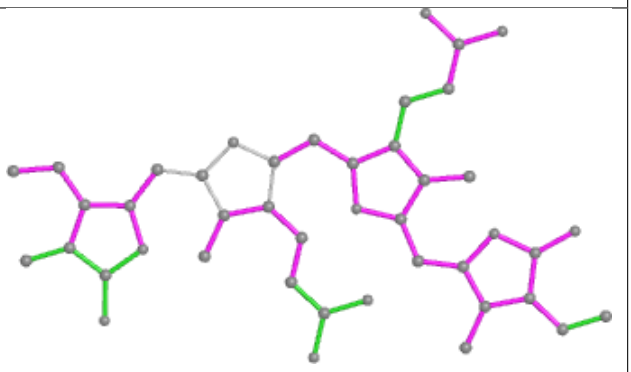


Rings

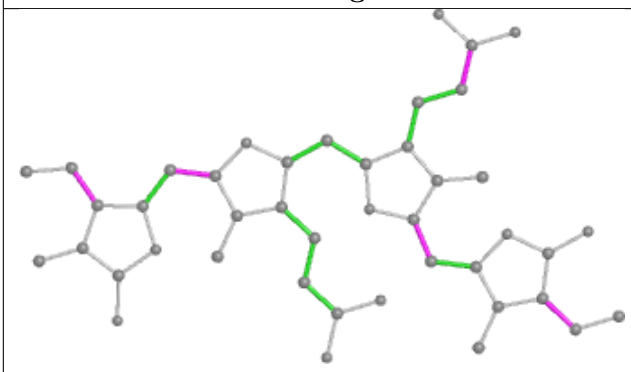
Ligand CYC A5 302



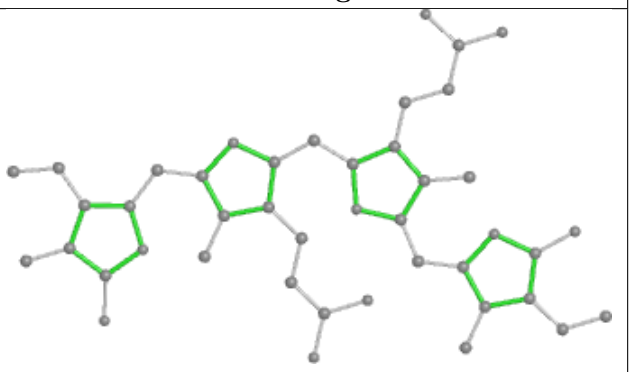
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Bond angles

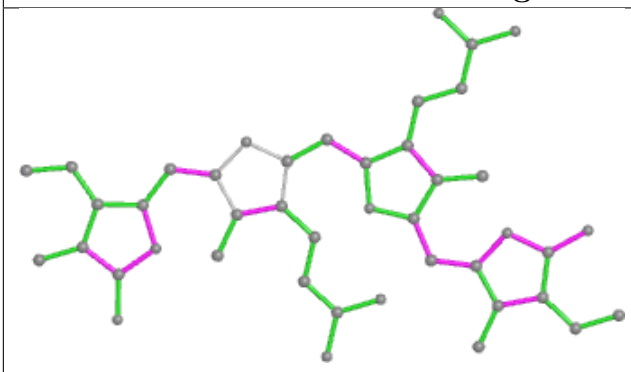


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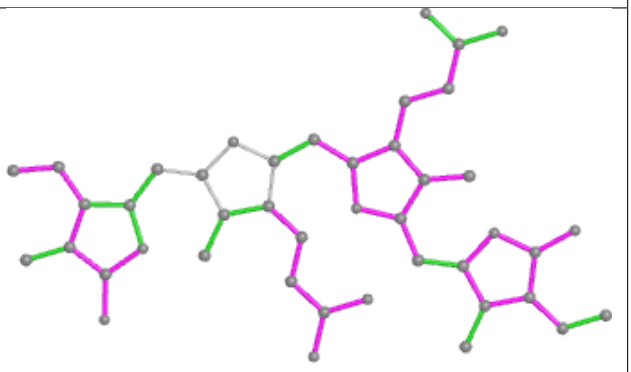


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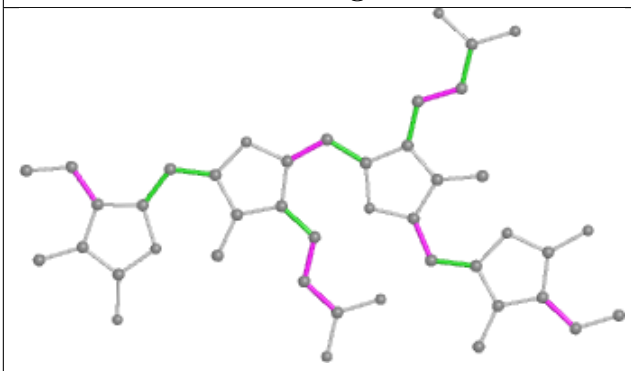
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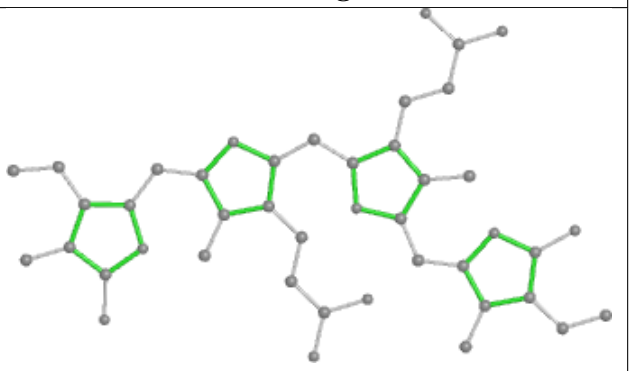
Bond lengths



Bond angles

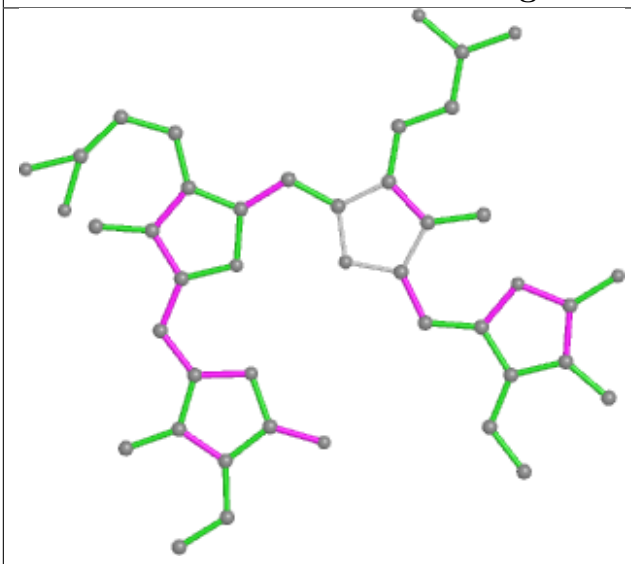


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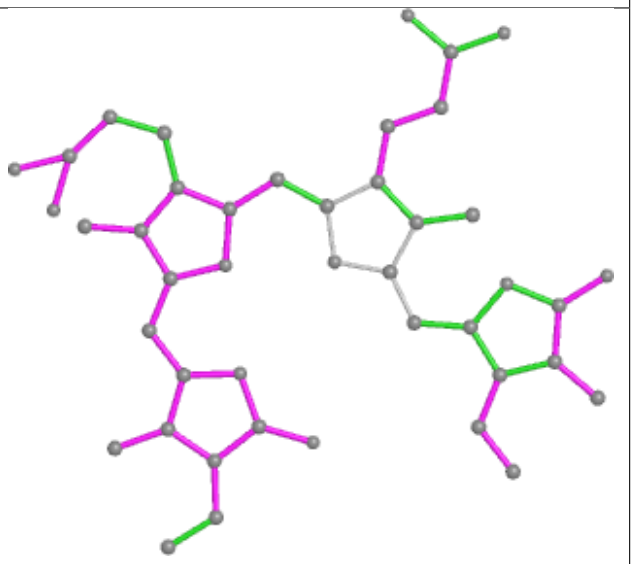


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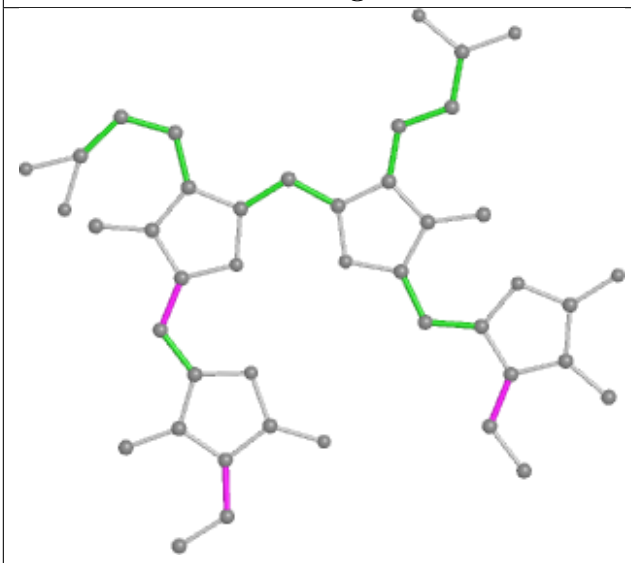
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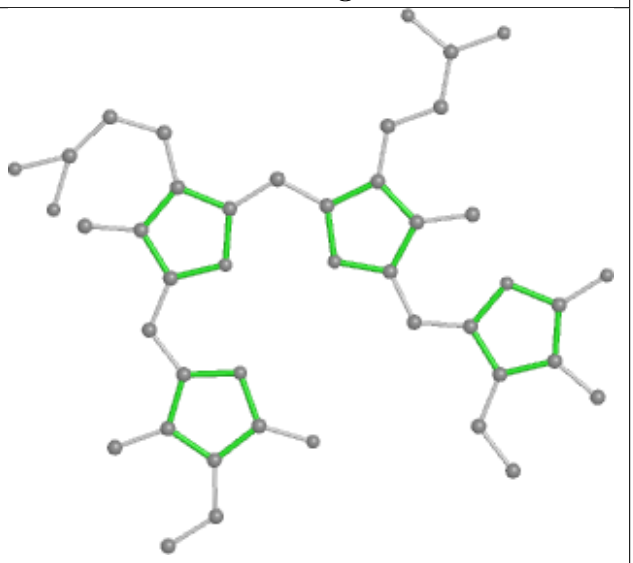
Bond lengths



Bond angles

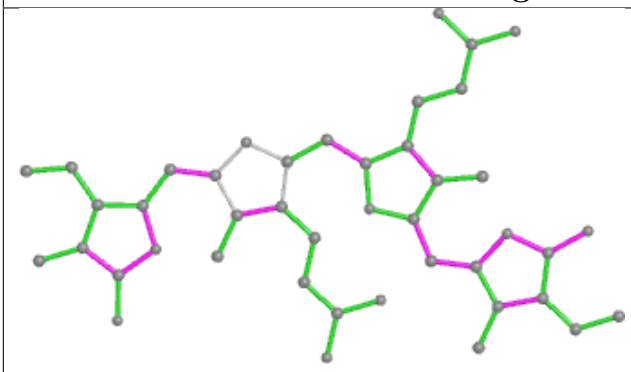


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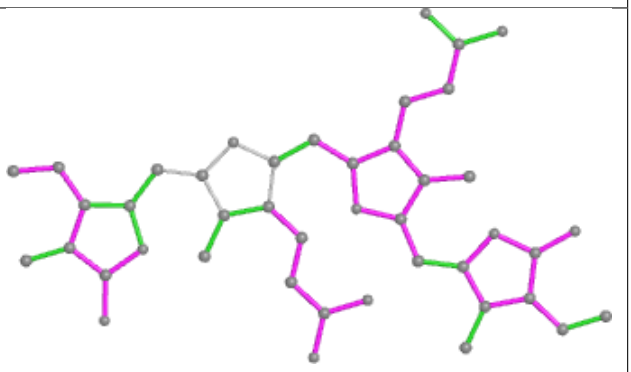


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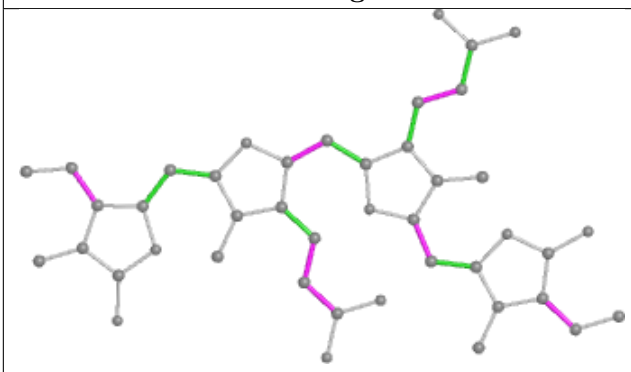
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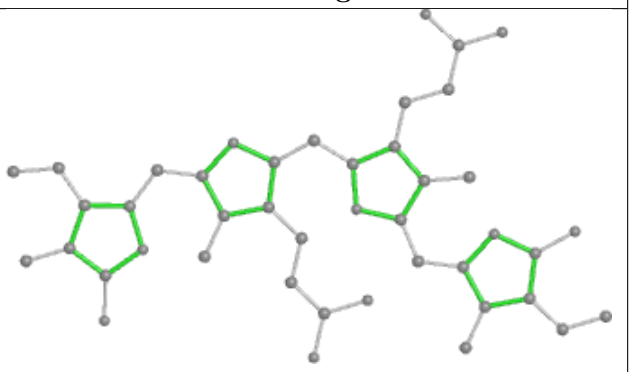
Bond lengths



Bond angles

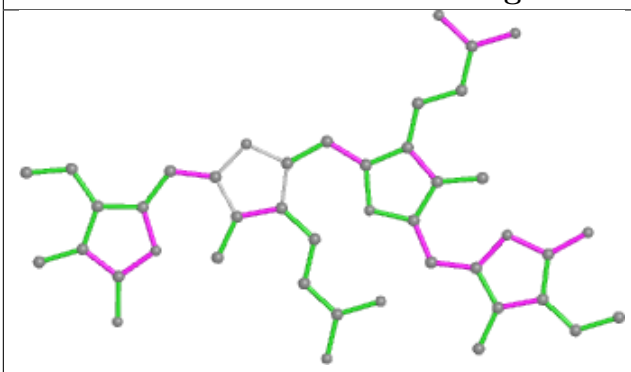


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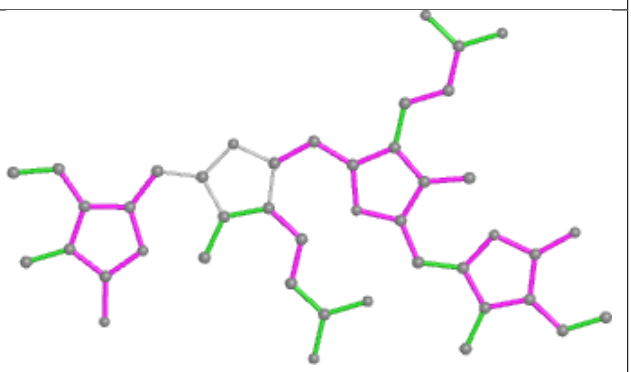


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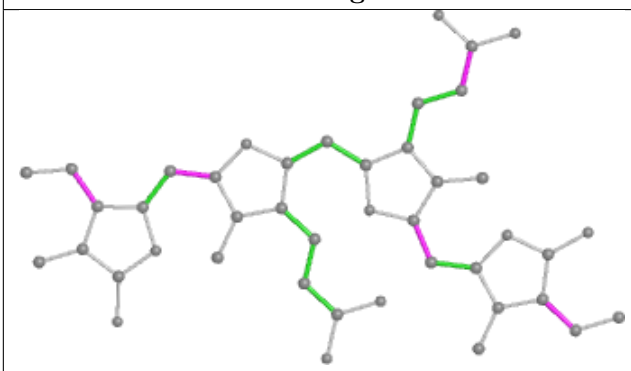
Ligand CYC C7 1001



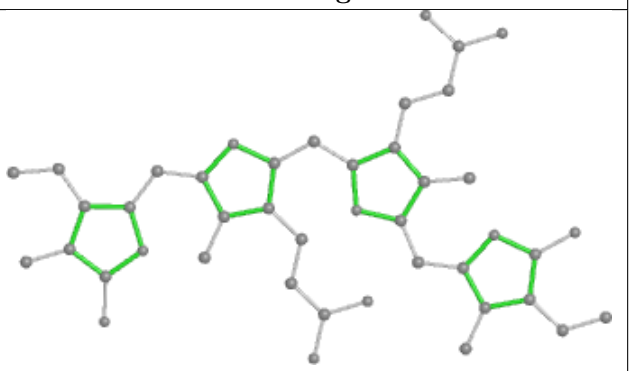
Bond lengths



Bond angles

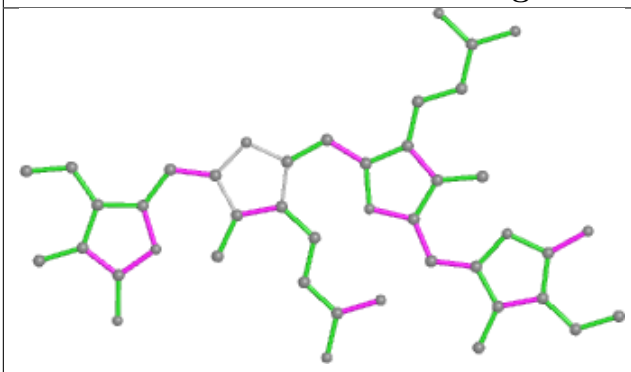


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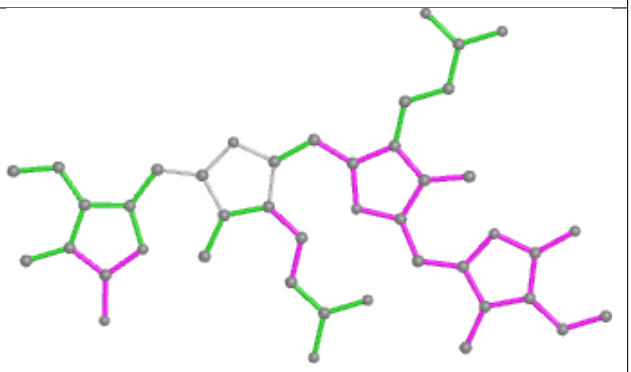


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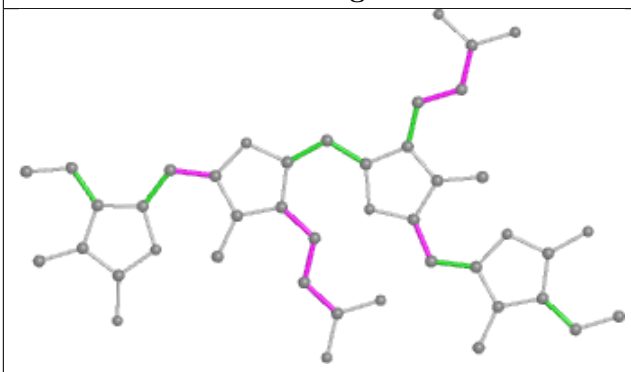
Ligand CYC G1 202



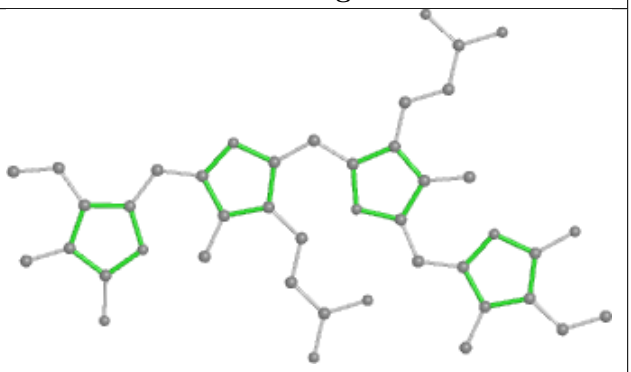
Bond lengths



Bond angles

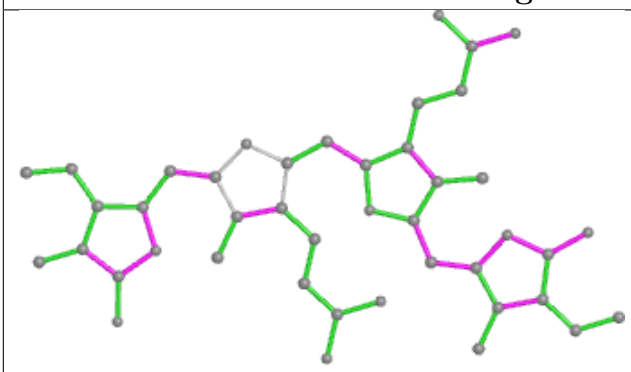


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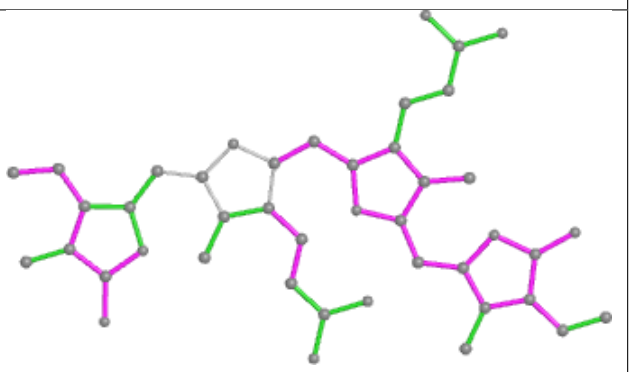


Rings

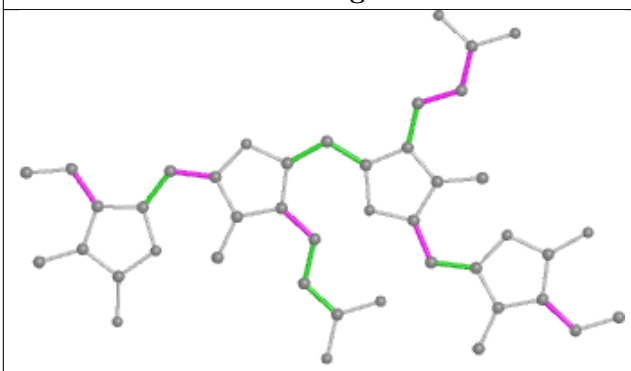
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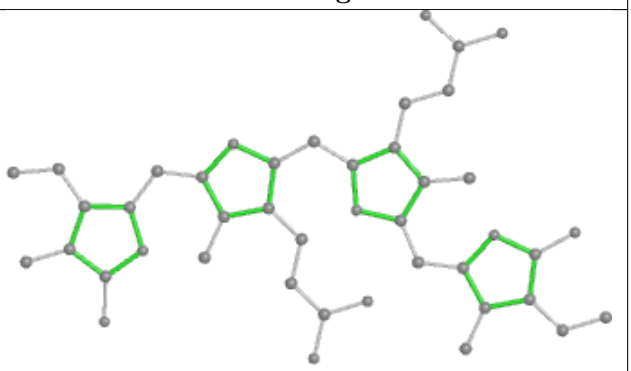
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Bond angles

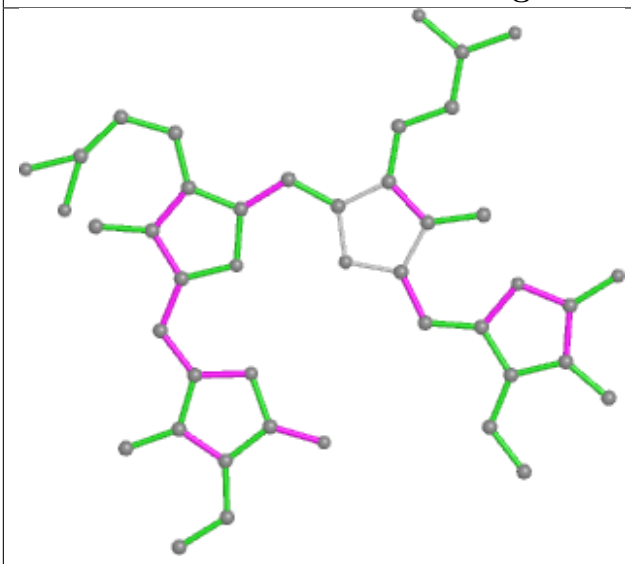


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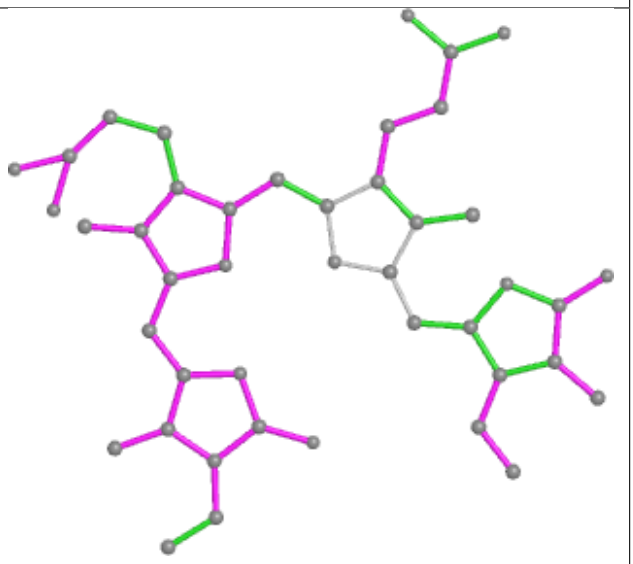


Rings

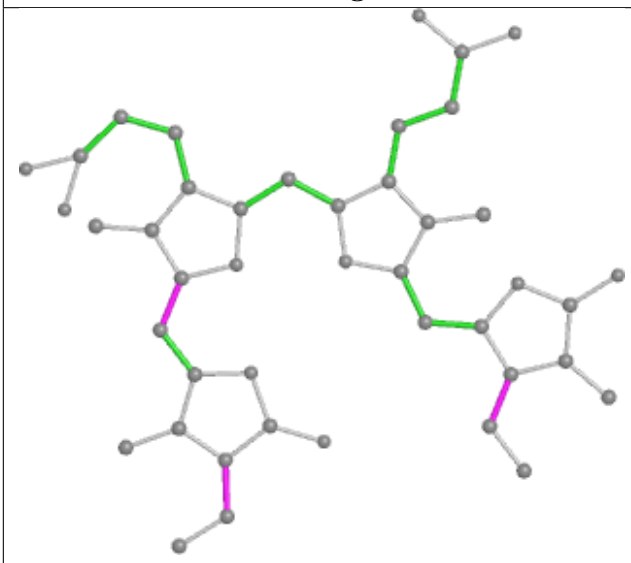
Ligand CYC V6 201



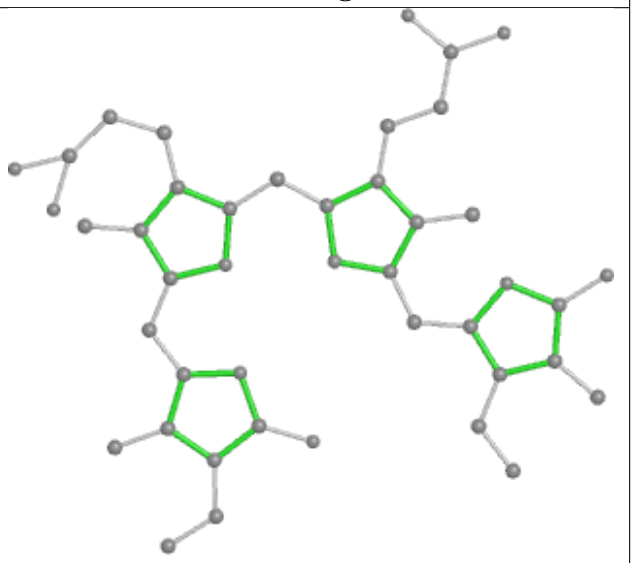
Bond lengths



Bond angles

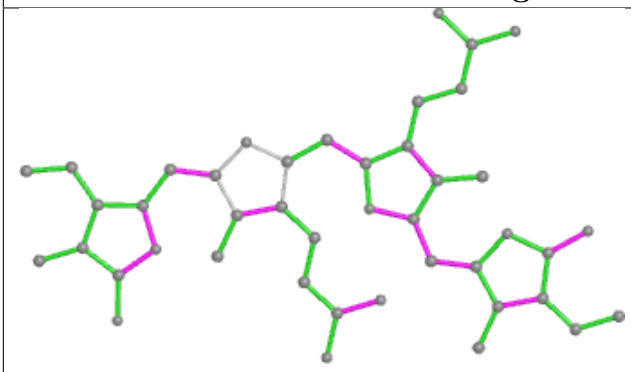


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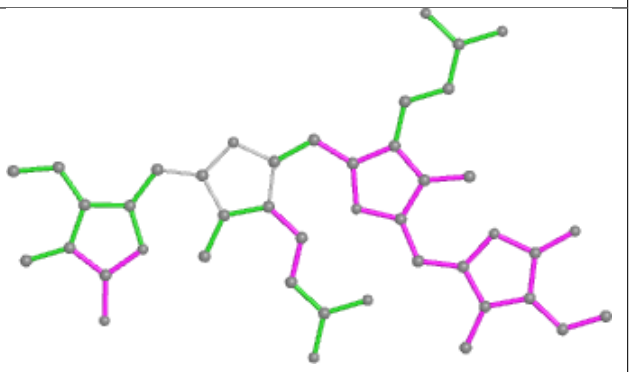


Rings

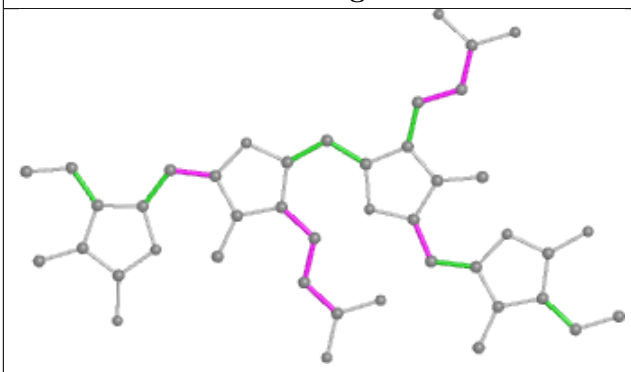
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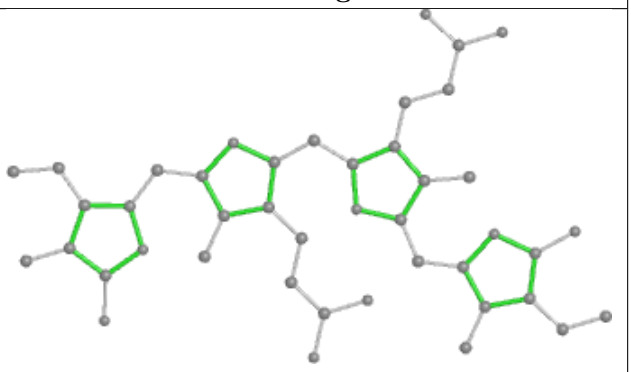
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Bond angles

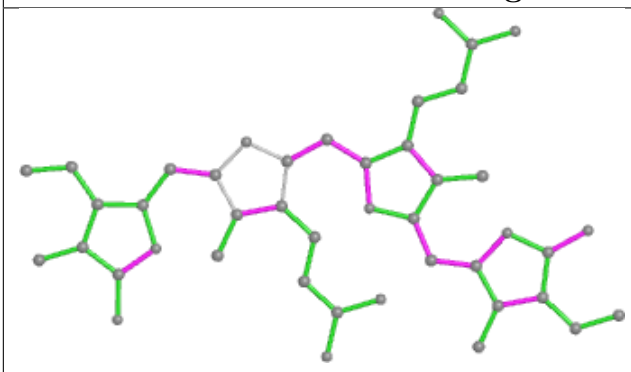


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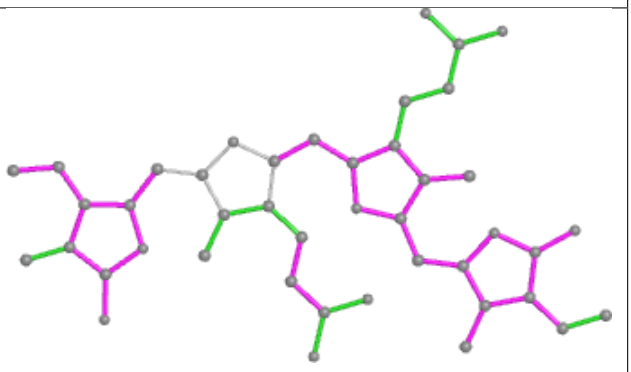


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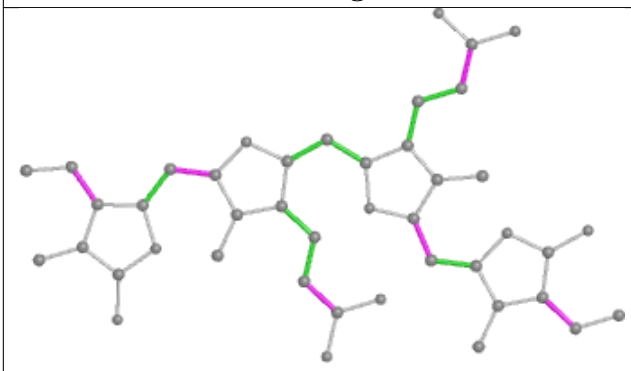
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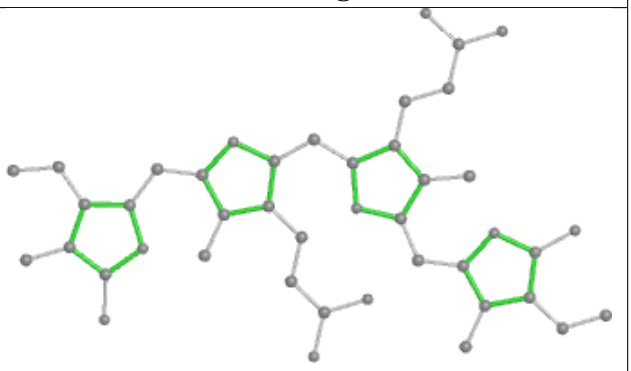
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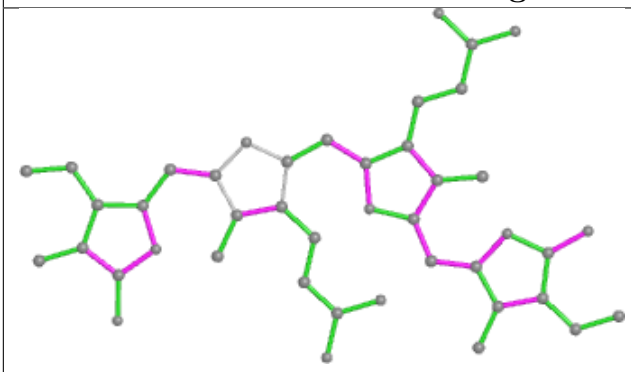


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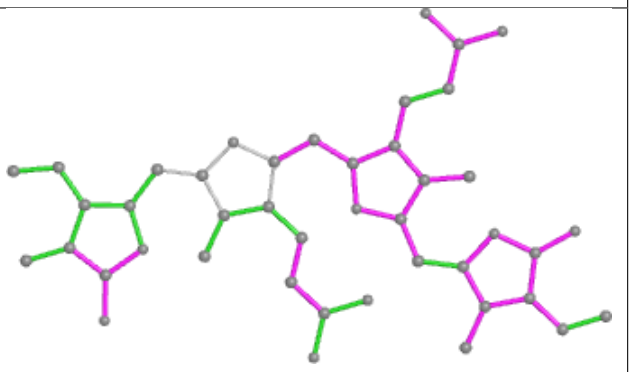


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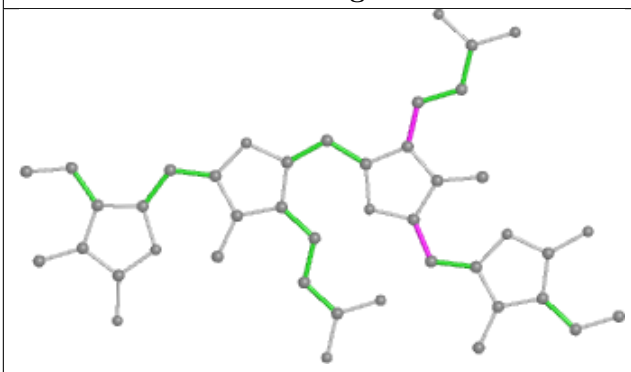
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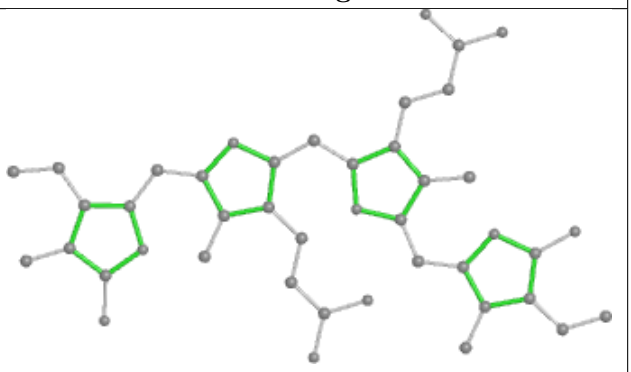
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Bond angles

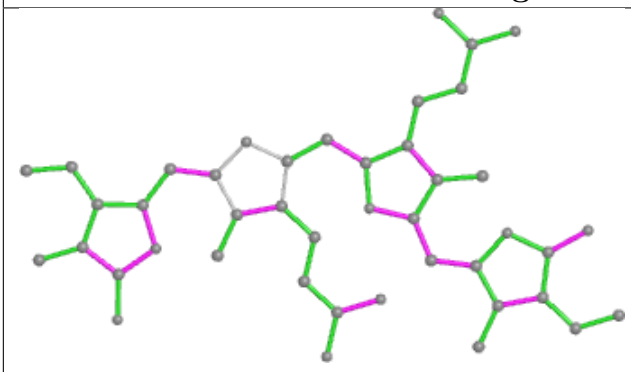


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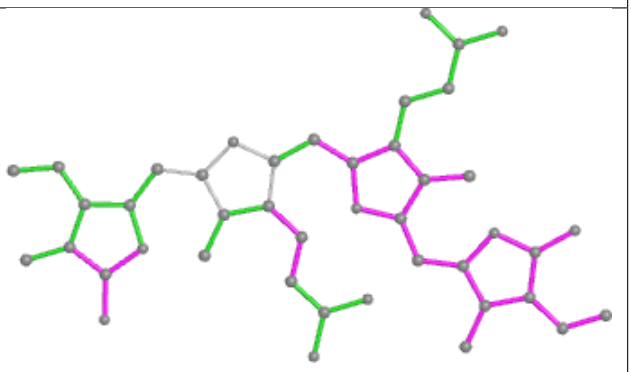


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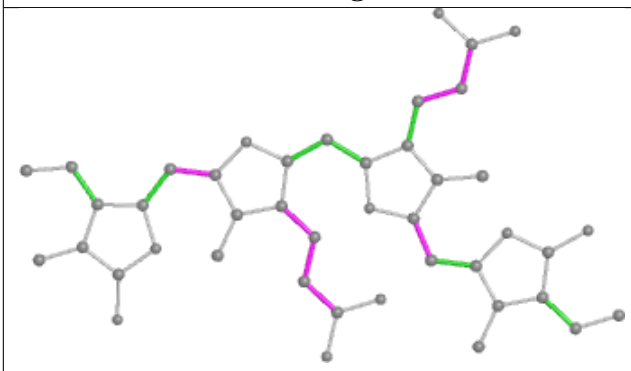
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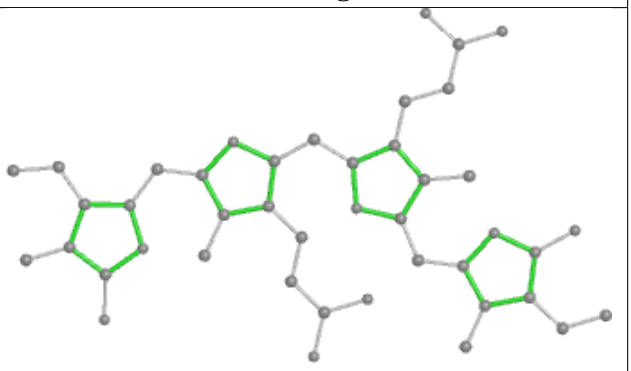
Bond lengths



Bond angles

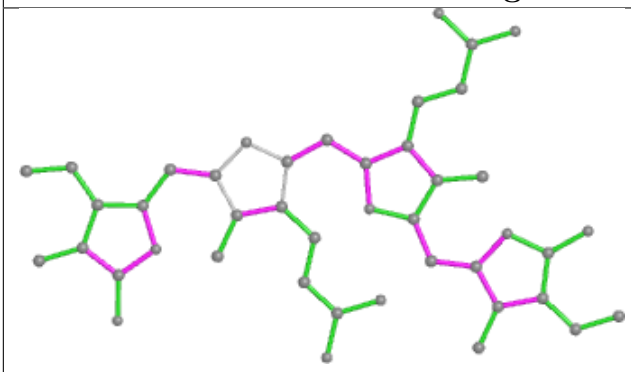


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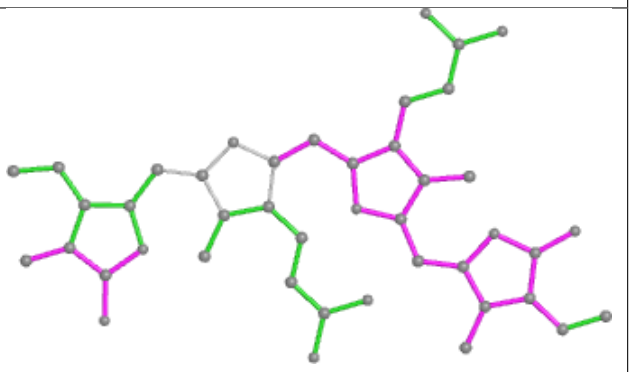


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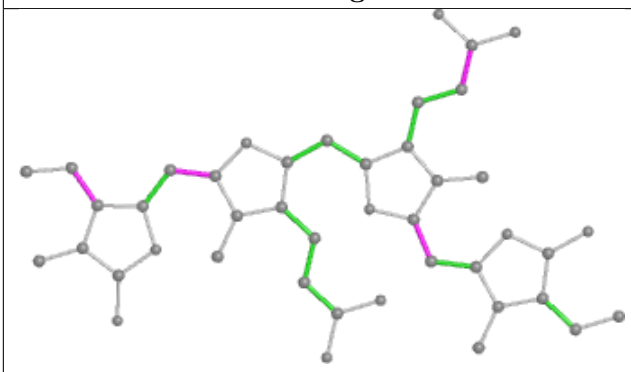
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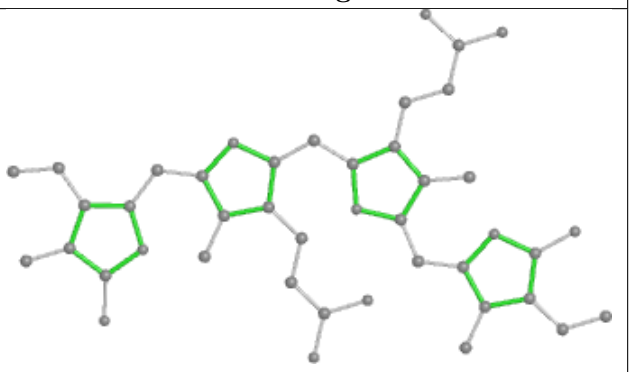
Bond lengths



Bond angles

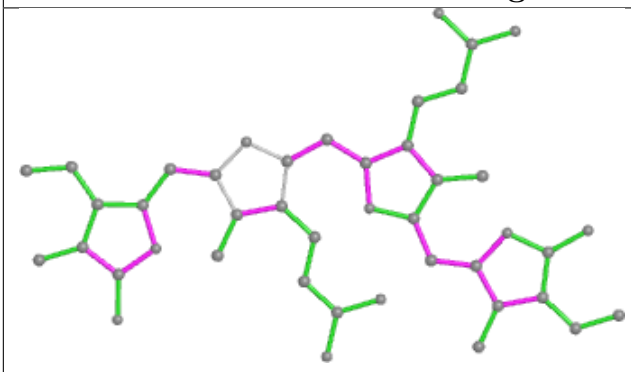


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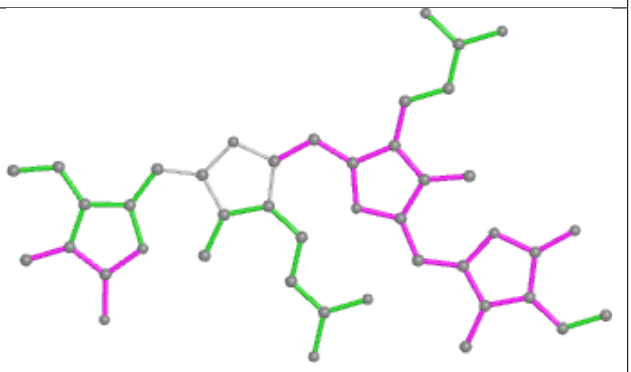


Rings

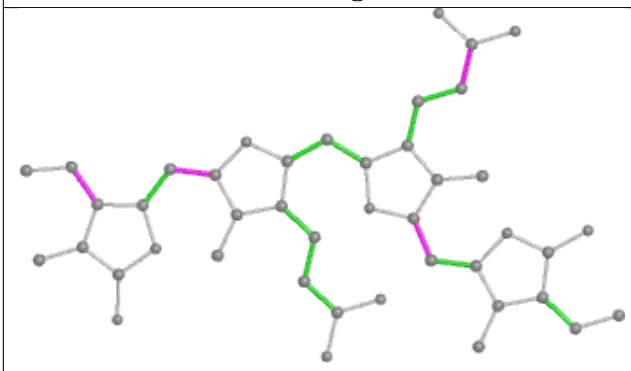
Ligand CYC o3 1001



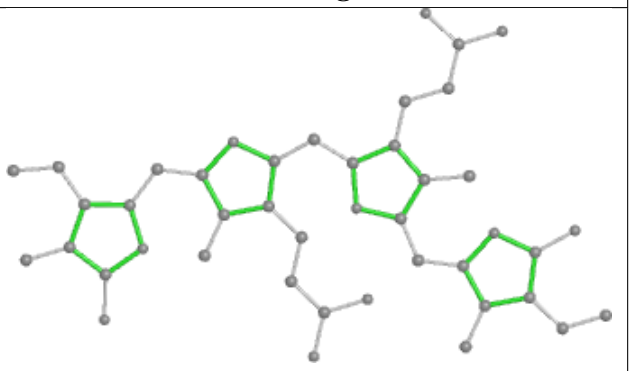
Bond lengths



Bond angles

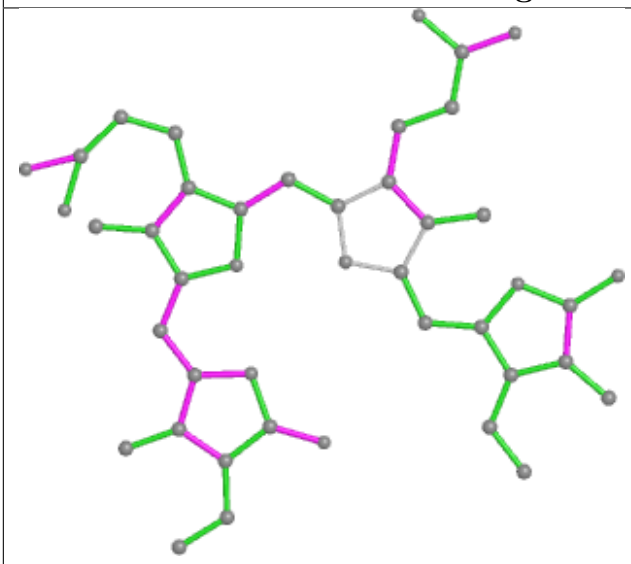


Torsions

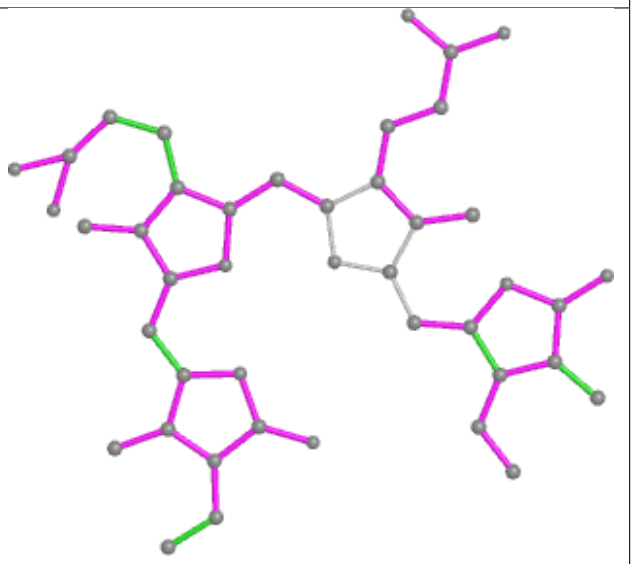


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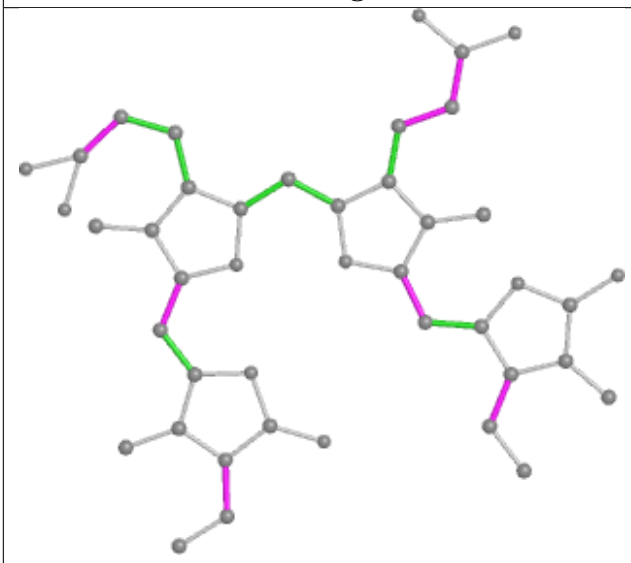
Ligand CYC L5 201



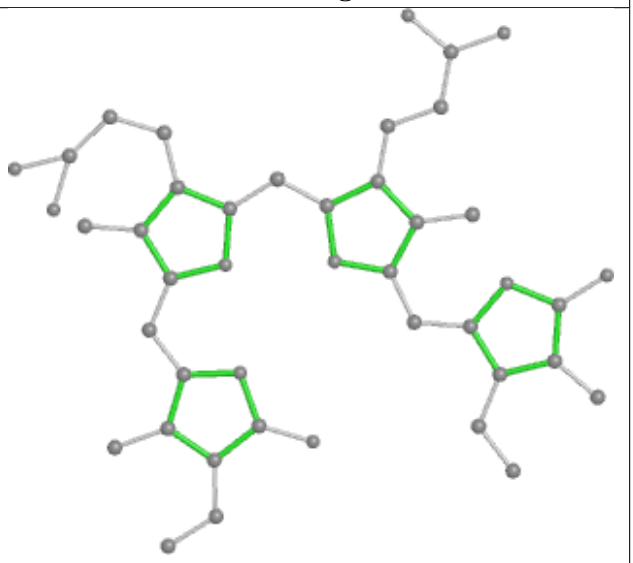
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Bond angles

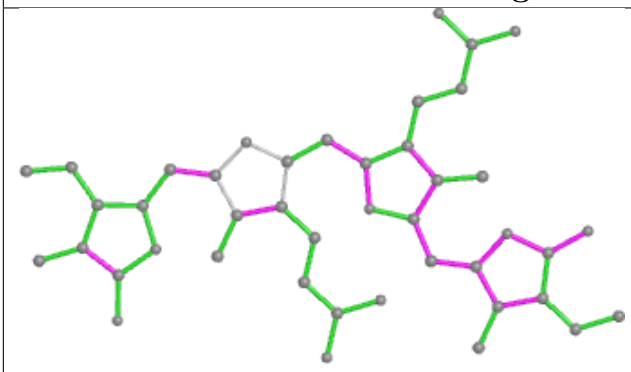


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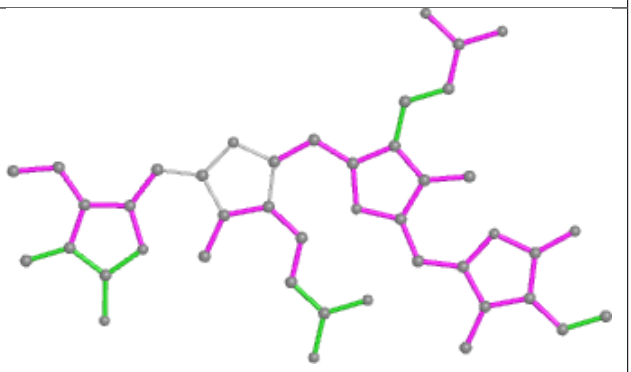


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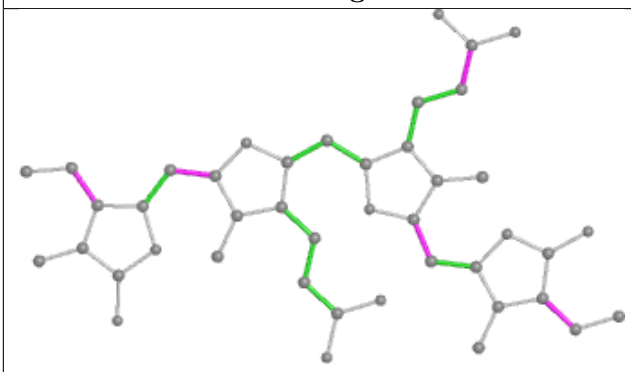
Ligand CYC N1 301



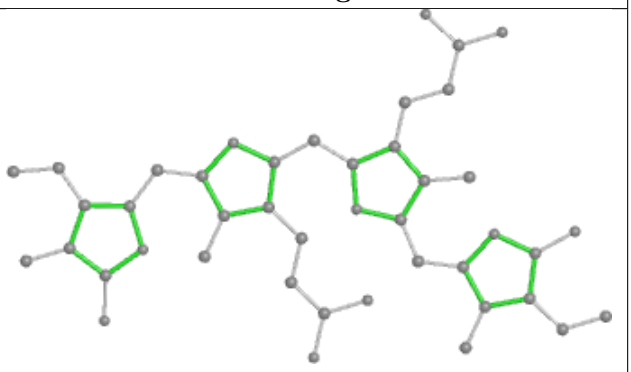
Bond lengths



Bond angles

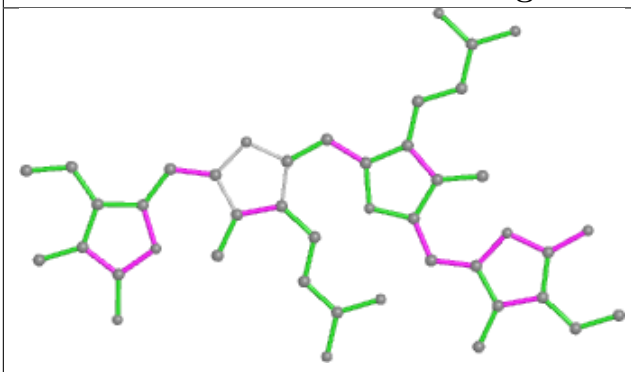


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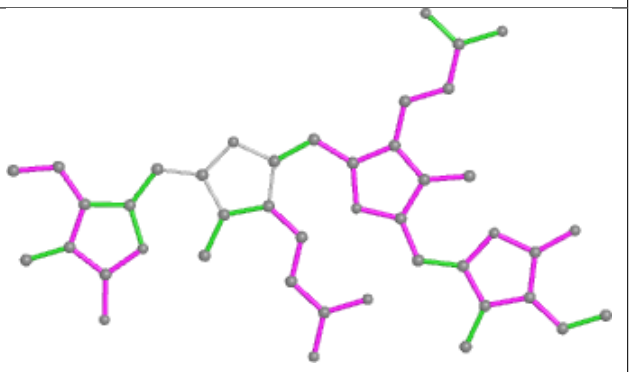


Rings

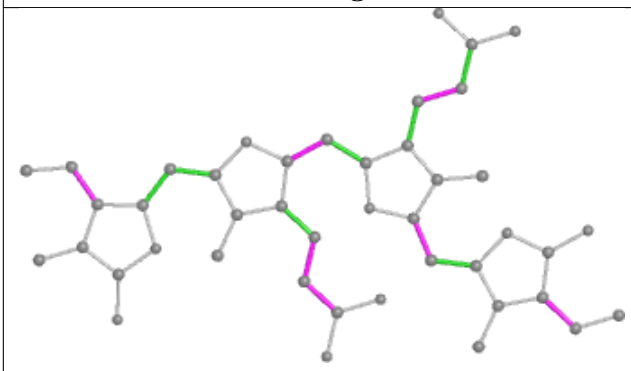
Ligand CYC S2 201



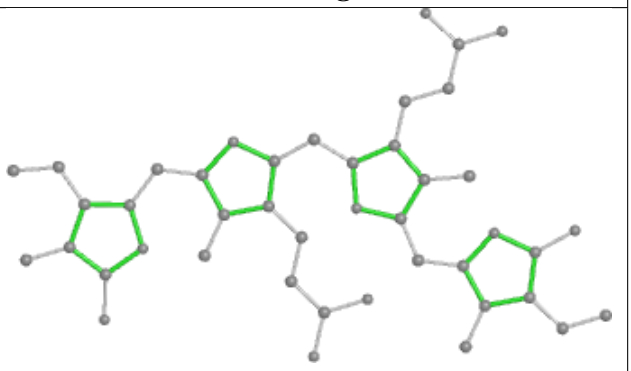
Bond lengths



Bond angles

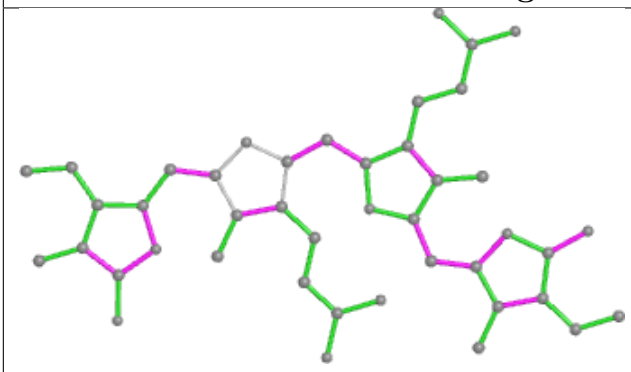


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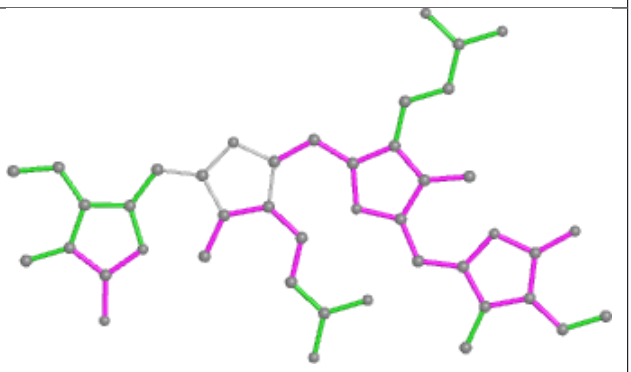


Rings

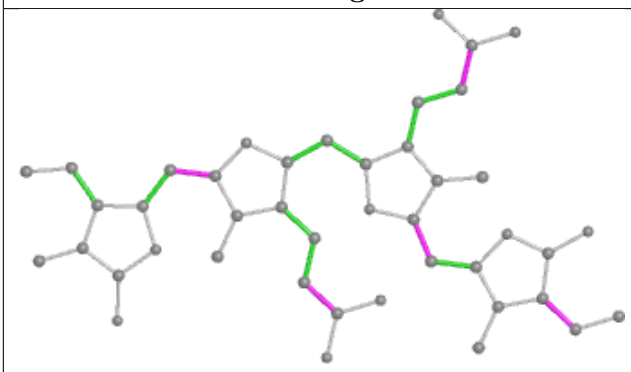
Ligand CYC 13 901



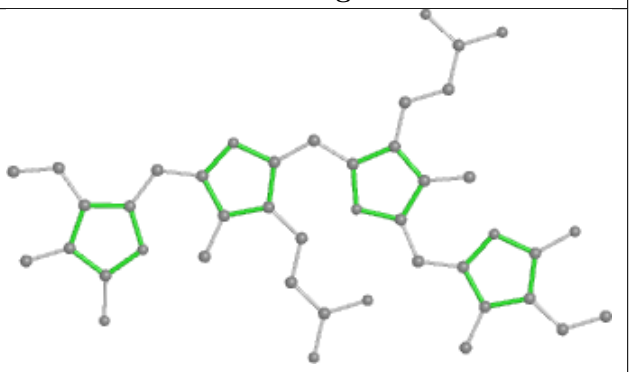
Bond lengths



Bond angles

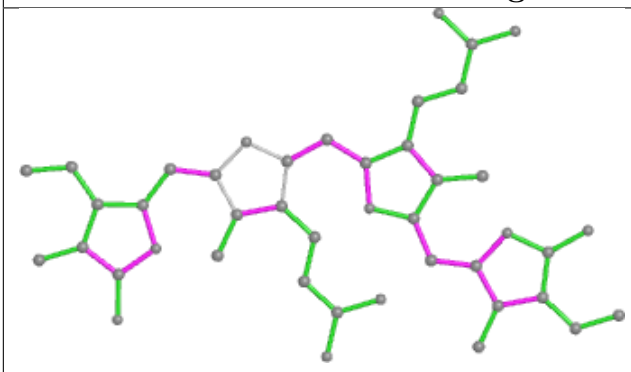


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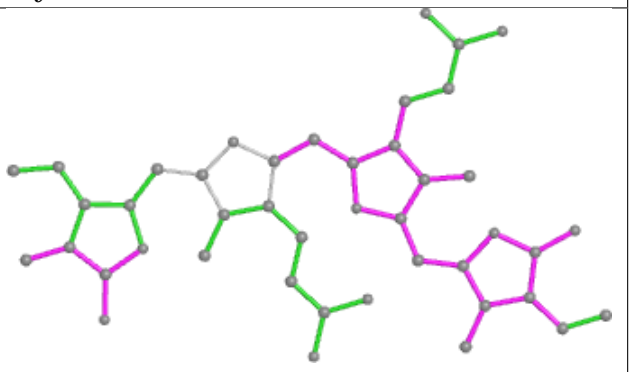


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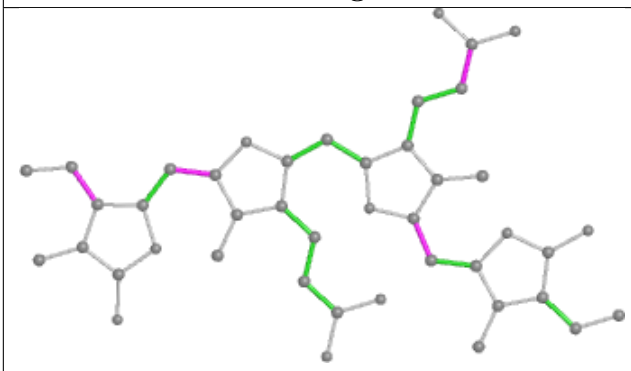
Ligand CYC y3 1001



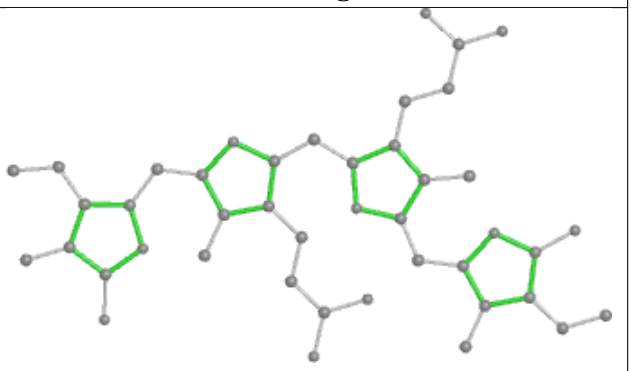
Bond lengths



Bond angles

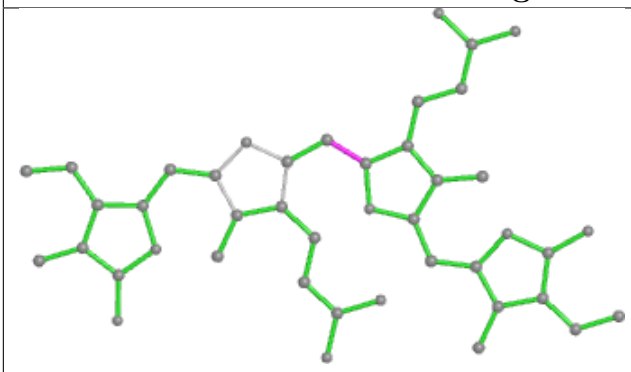


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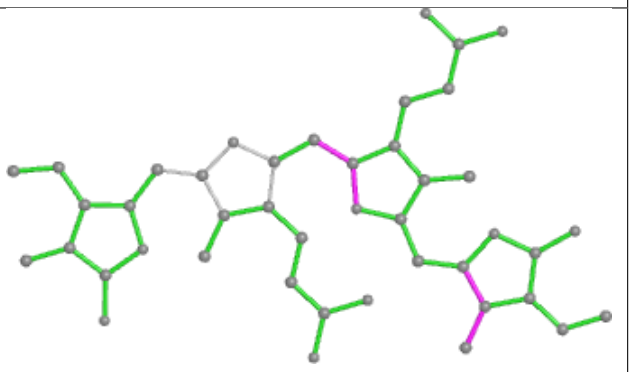


Rings

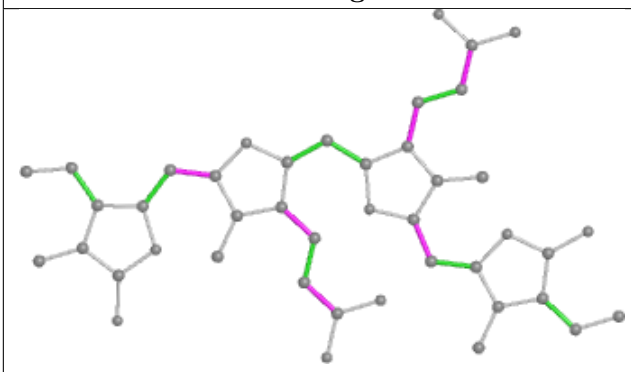
Ligand CYC R8 201



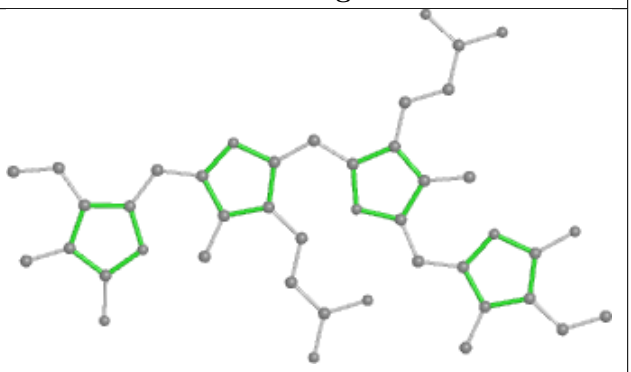
Bond lengths



Bond angles

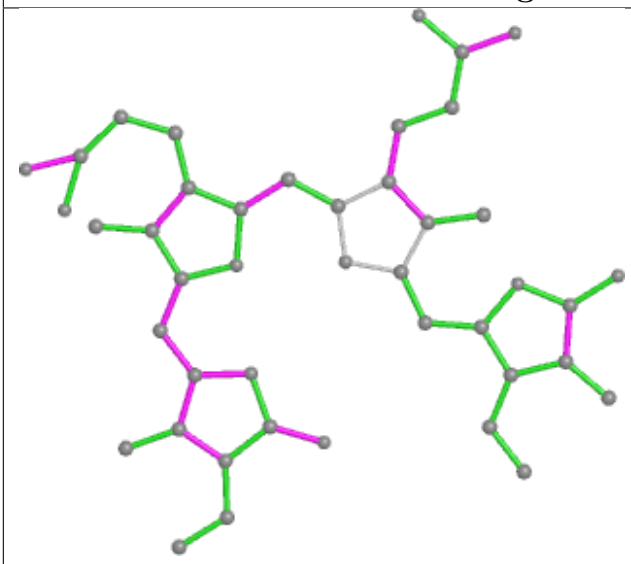


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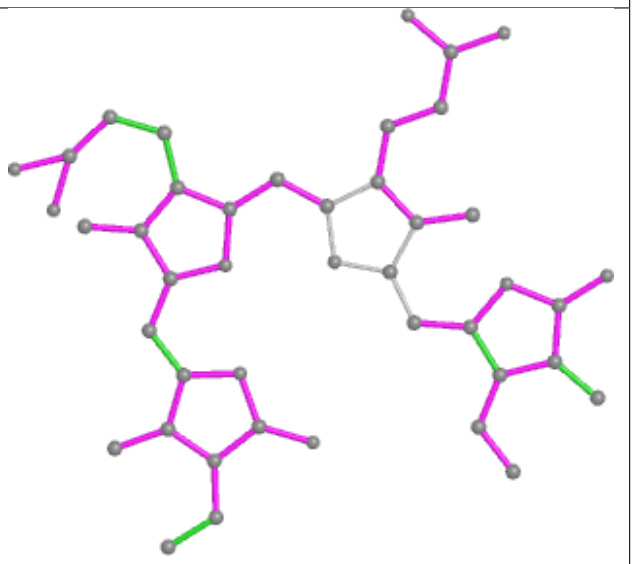


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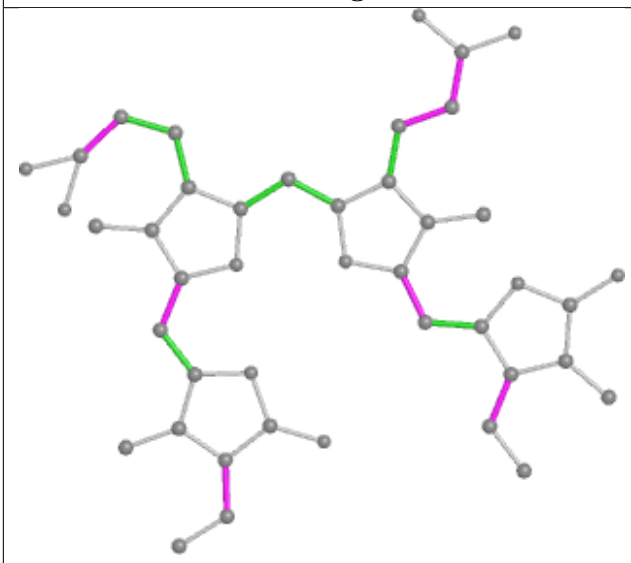
Ligand CYC J5 201



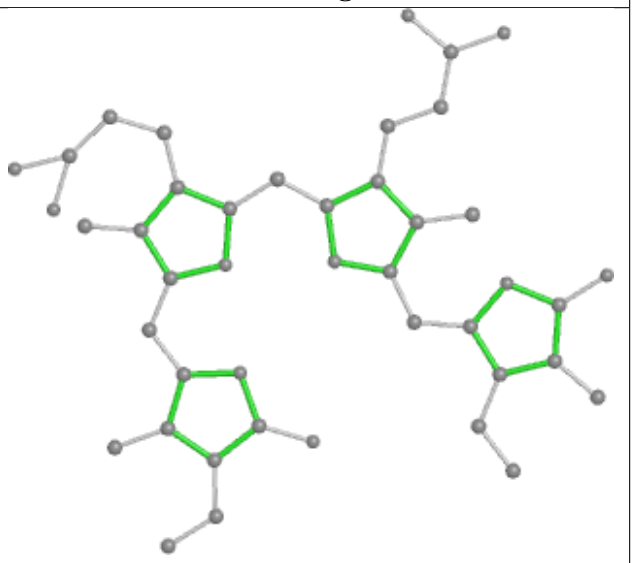
Bond lengths



Bond angles

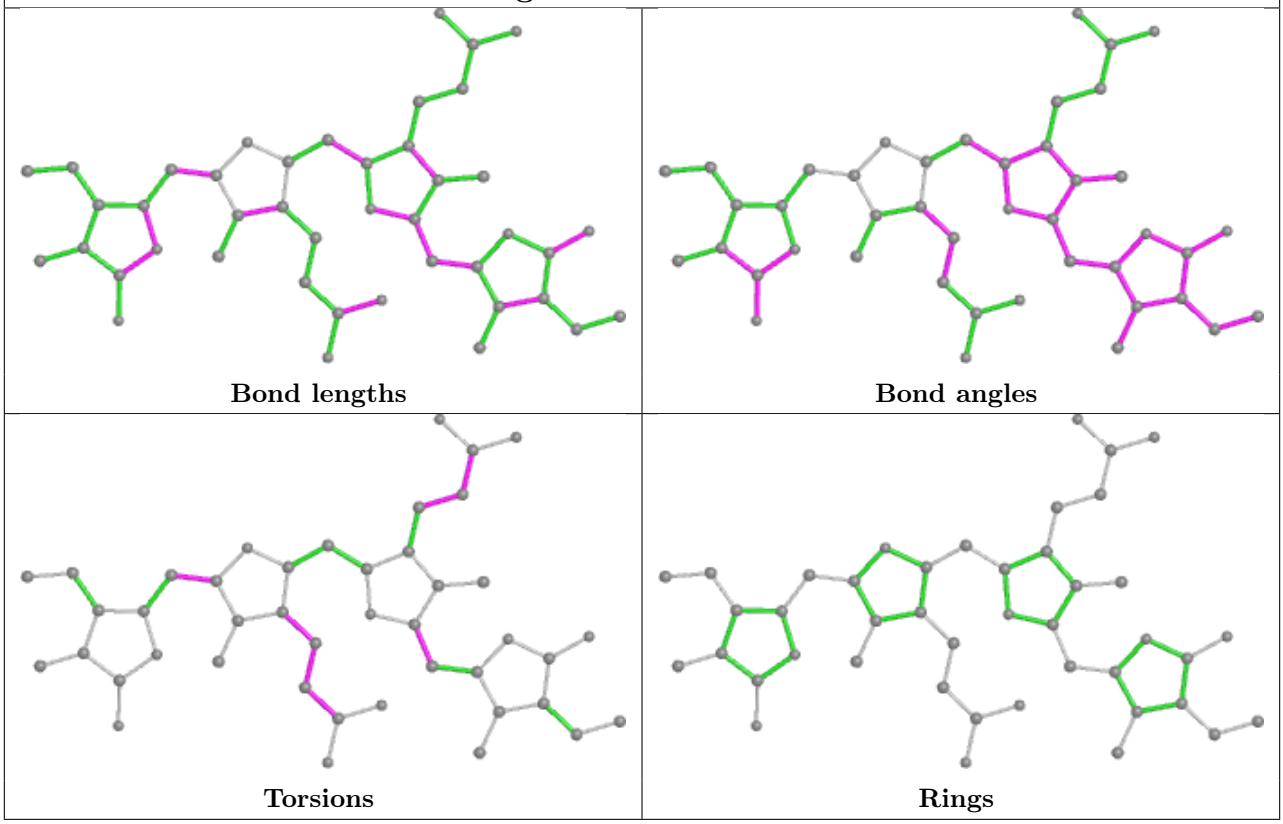


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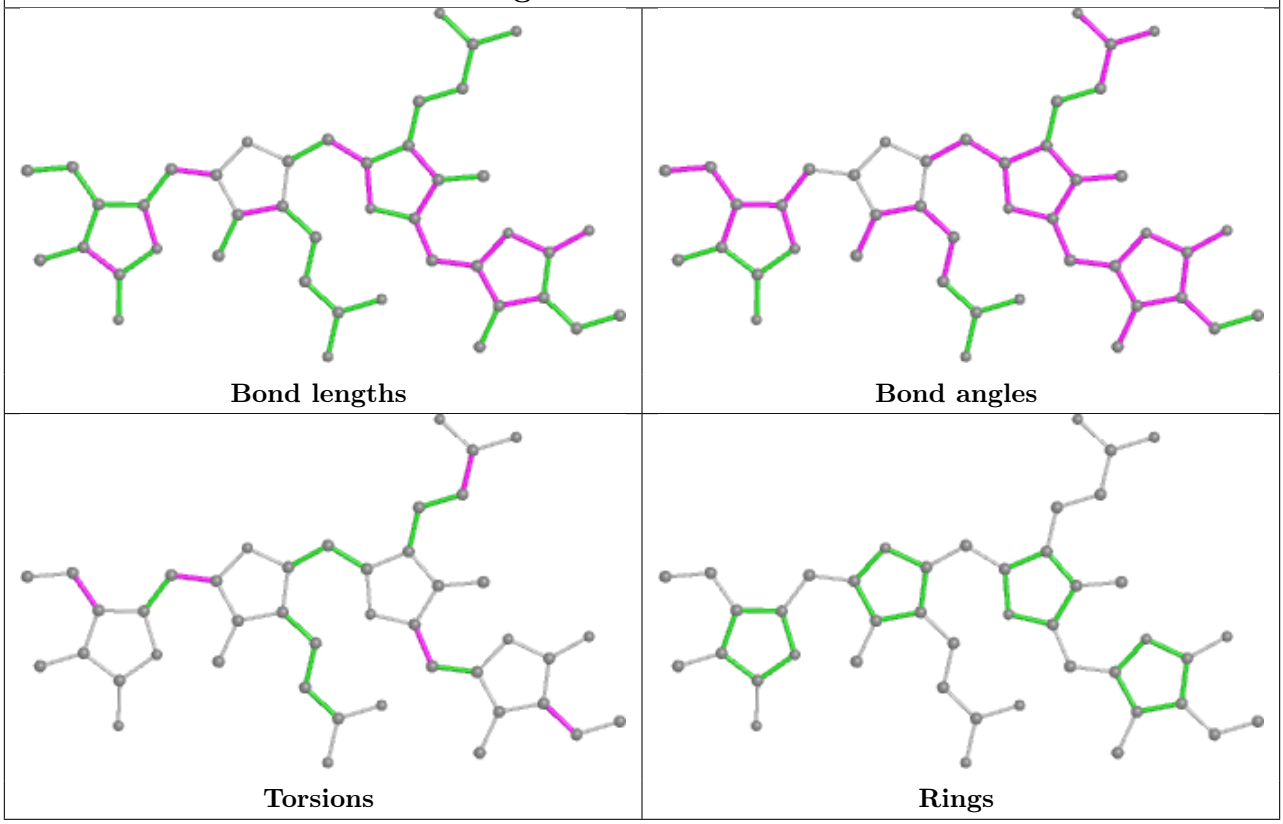


Rings

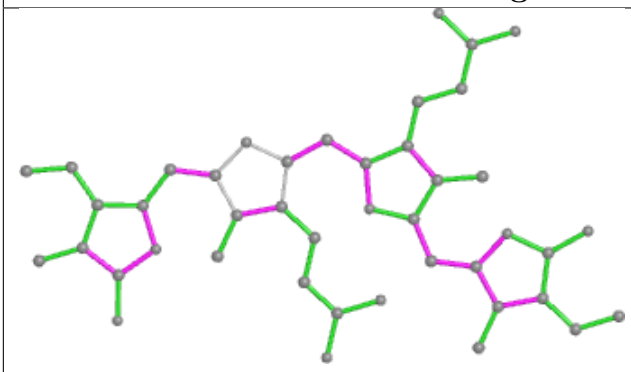
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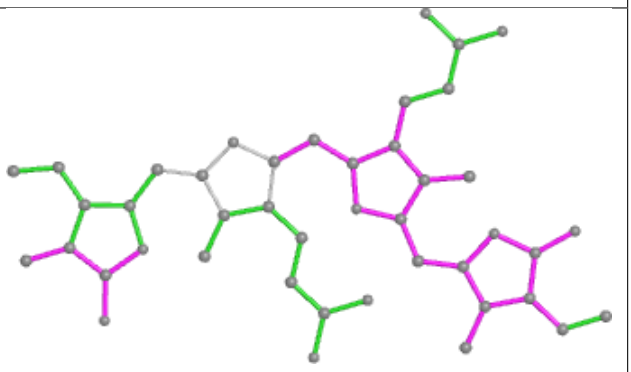
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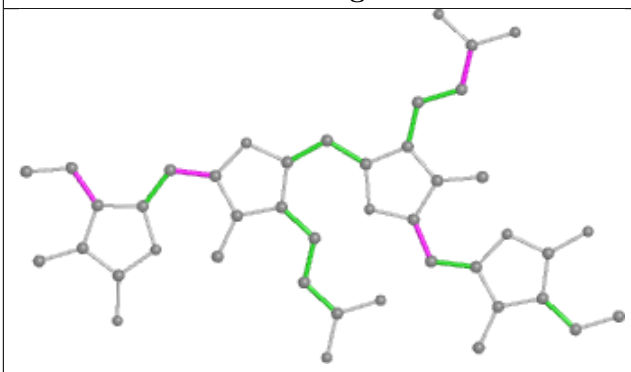
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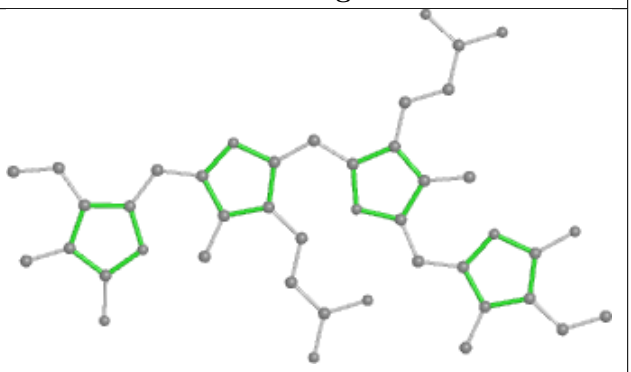
Bond lengths



Bond angles

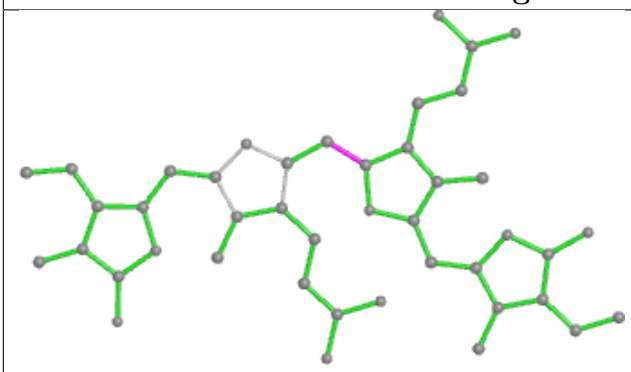


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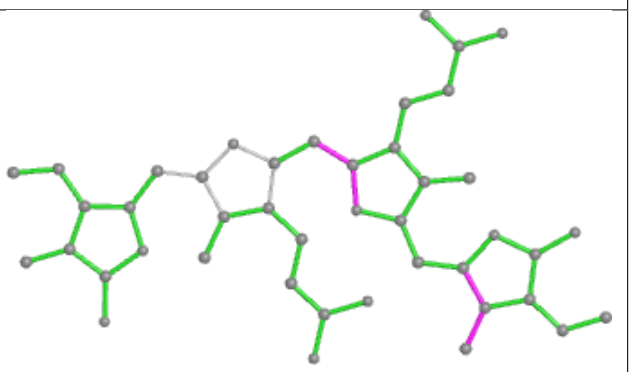


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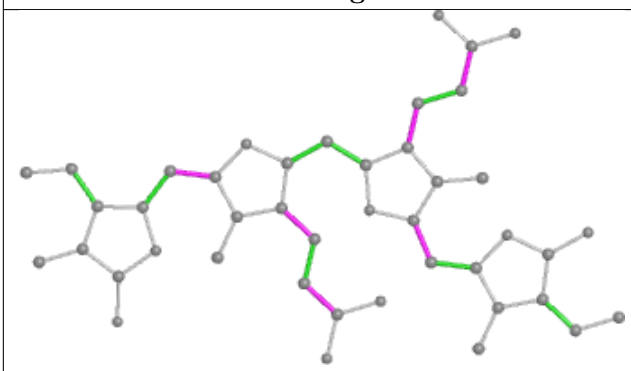
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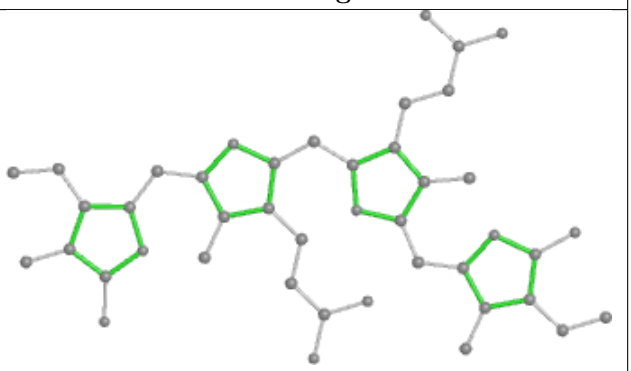
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Bond angles

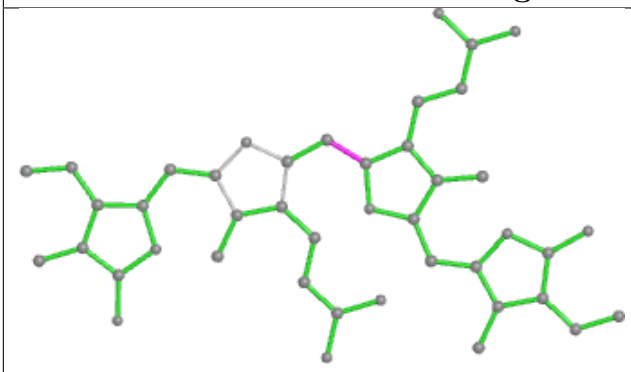


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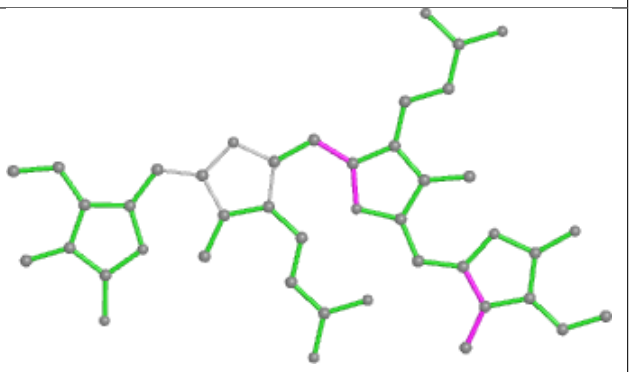


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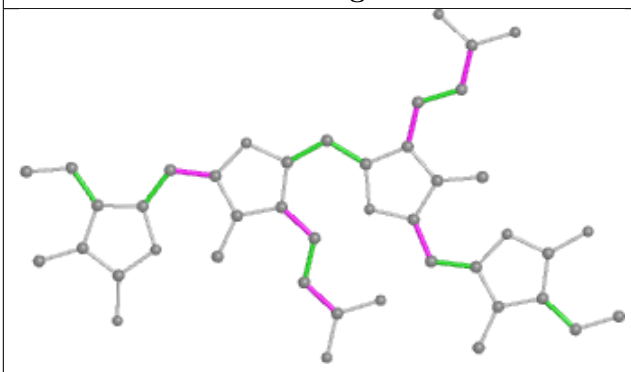
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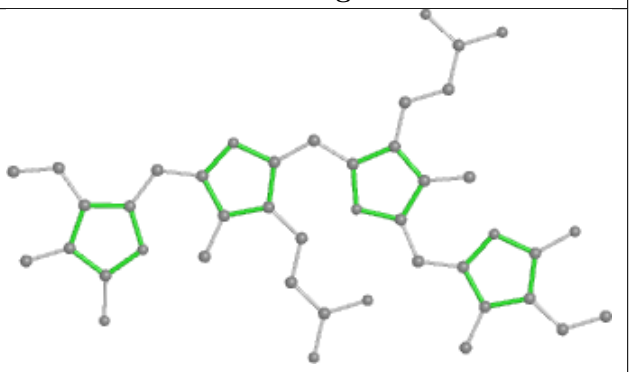
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Bond angles

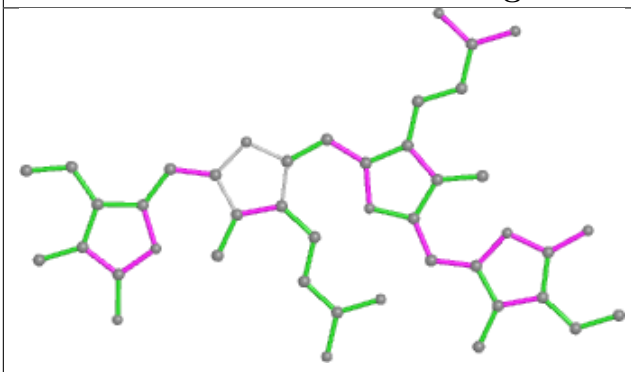


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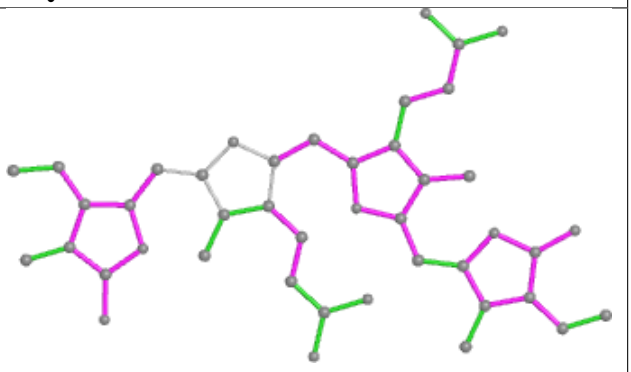


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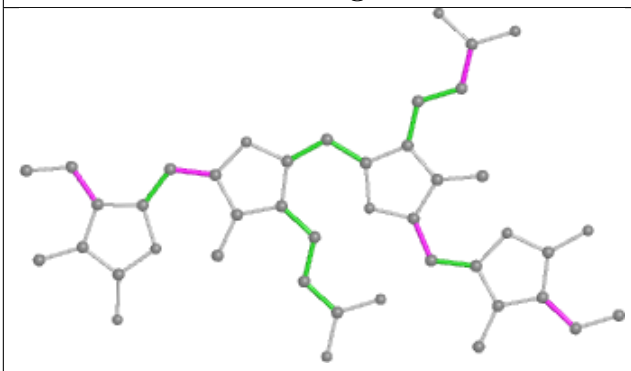
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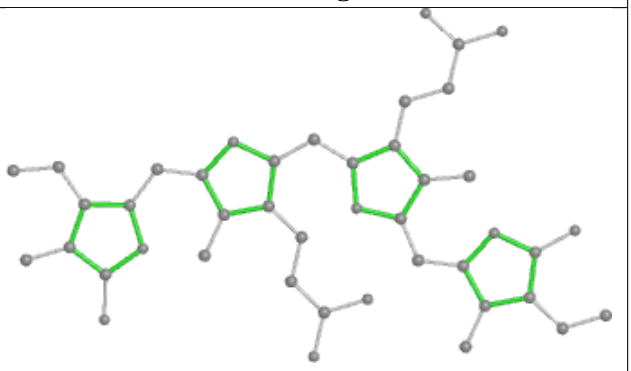
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Bond angles

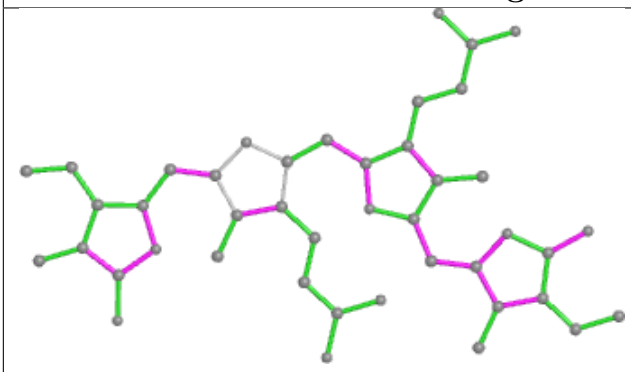


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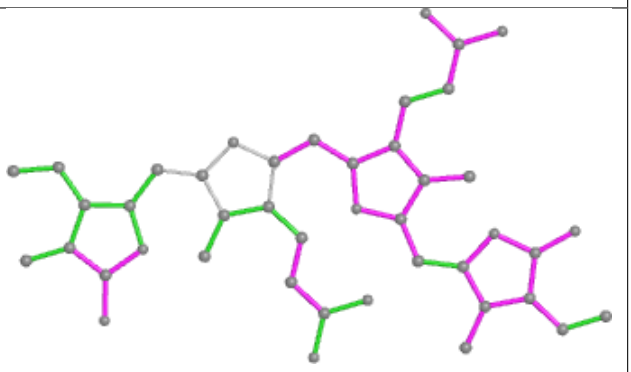


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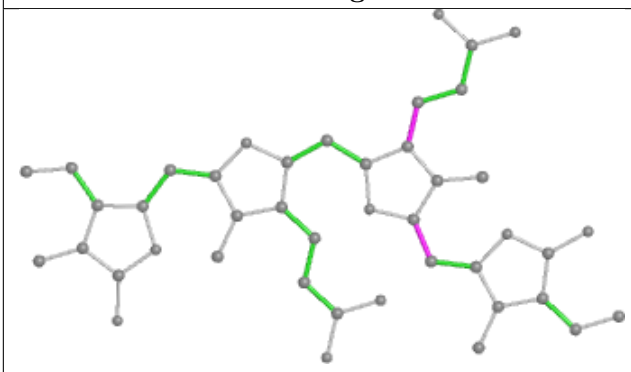
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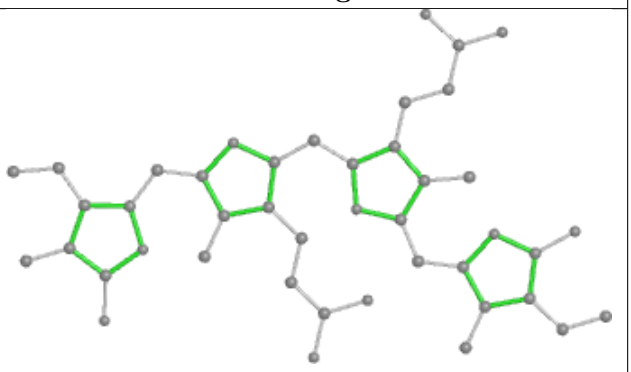
Bond lengths



Bond angles

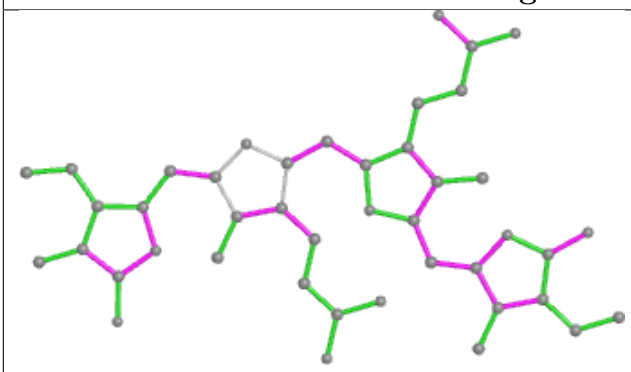


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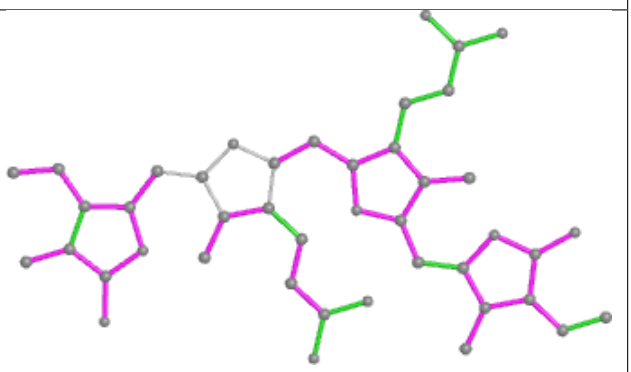


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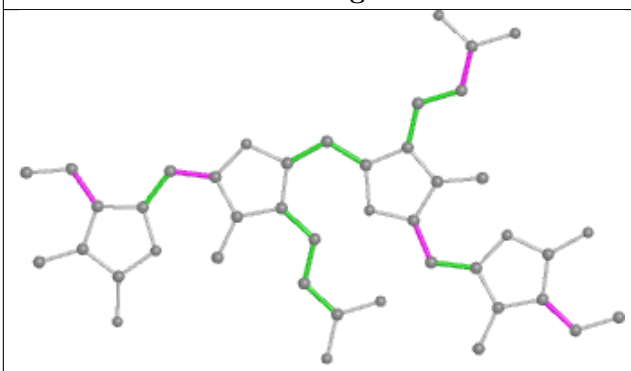
Ligand CYC I4 201



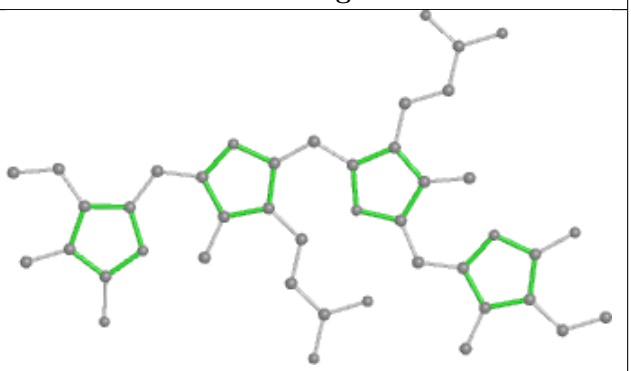
Bond lengths



Bond angles

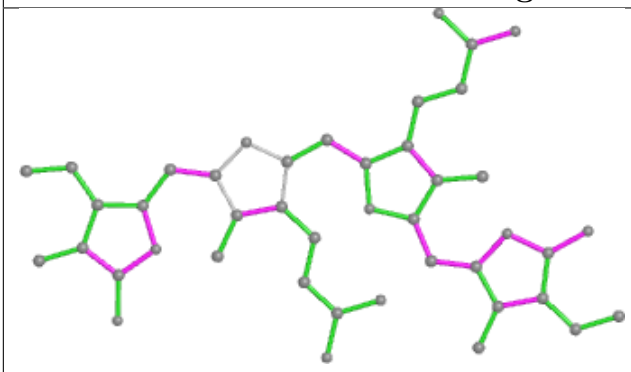


Torsions

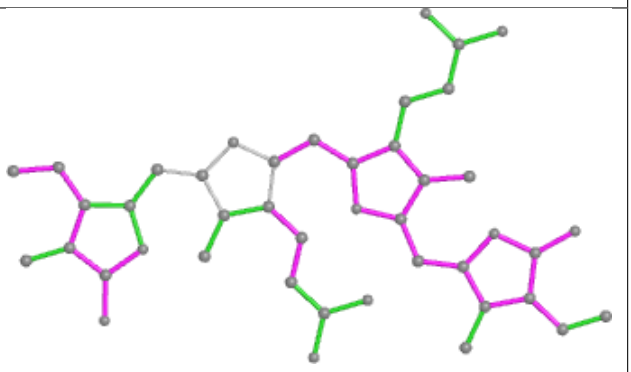


Rings

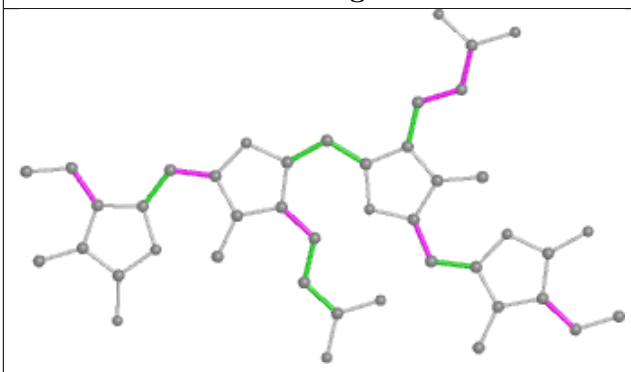
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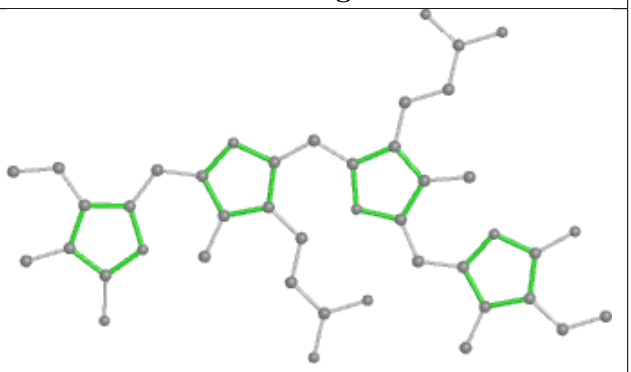
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Bond angles

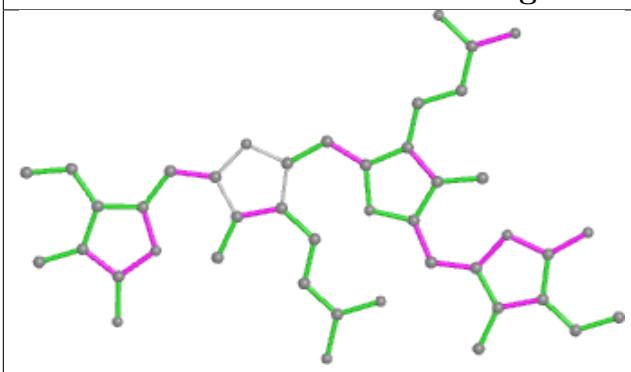


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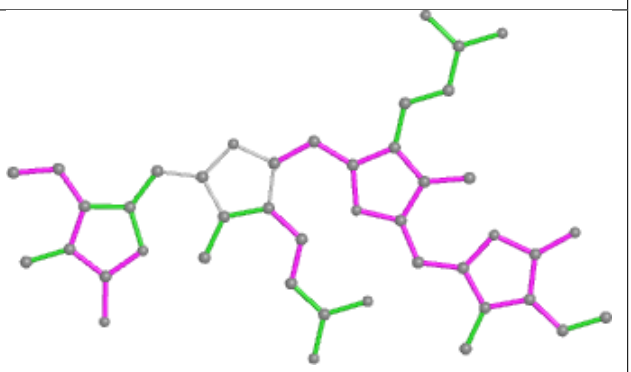


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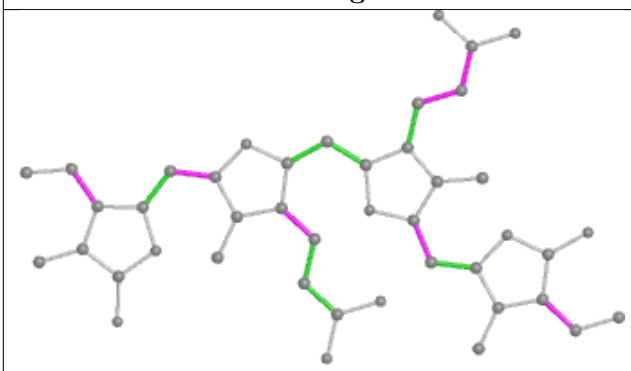
Ligand CYC I8 203



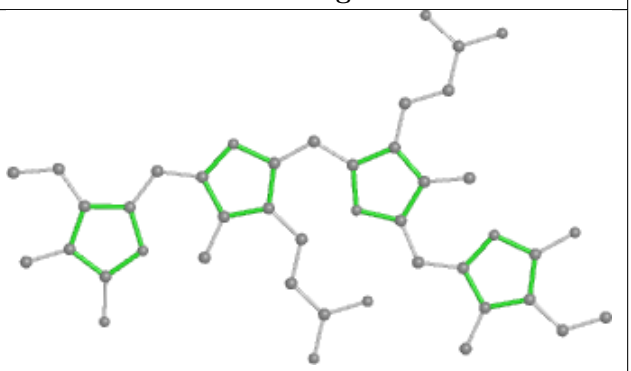
Bond lengths



Bond angles

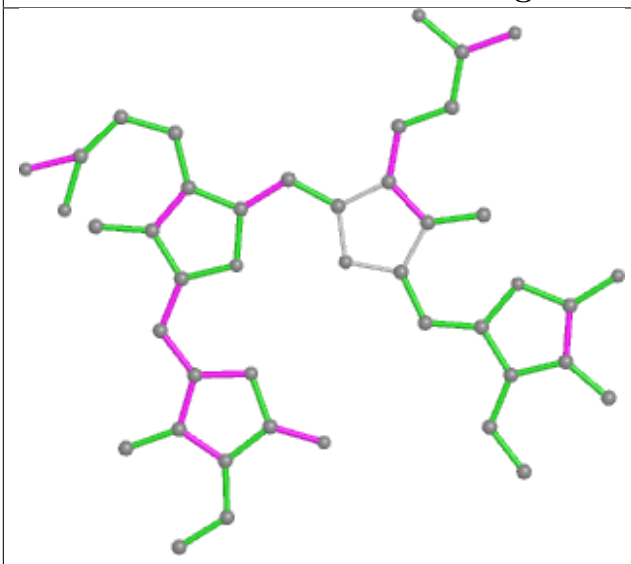


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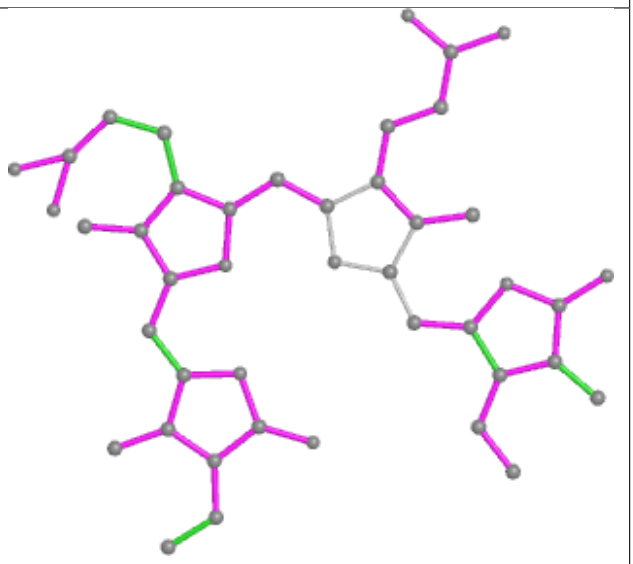


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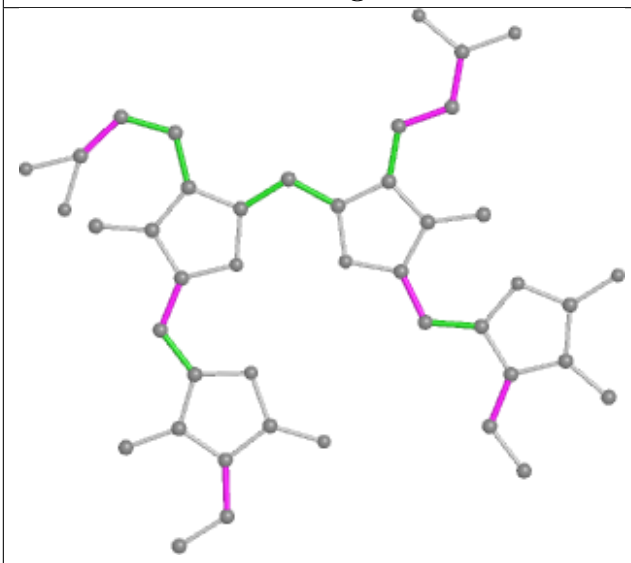
Ligand CYC F1 201



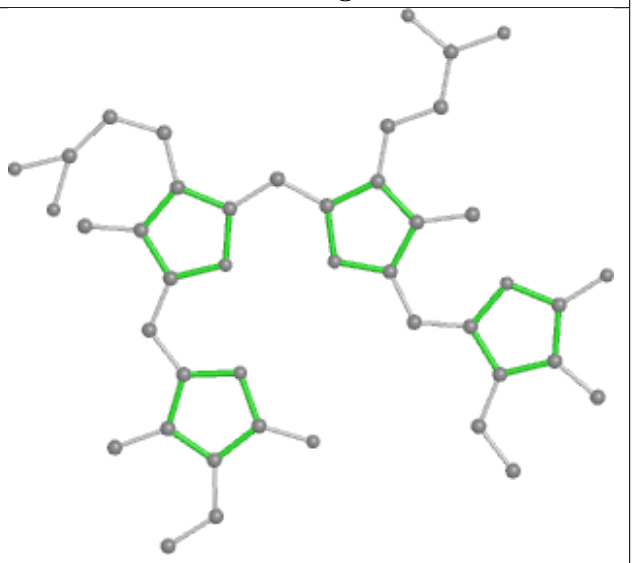
Bond lengths



Bond angles

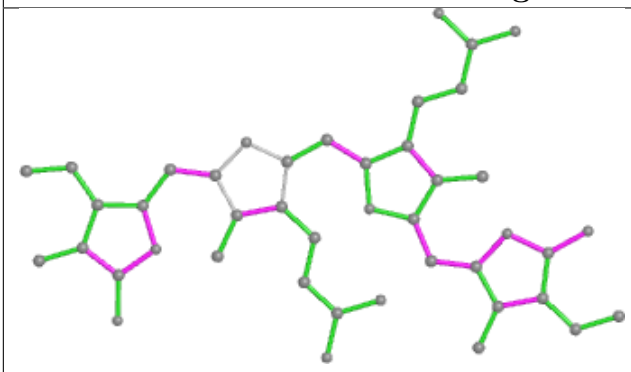


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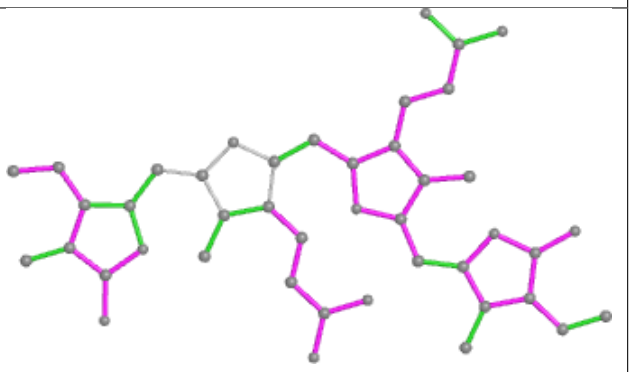


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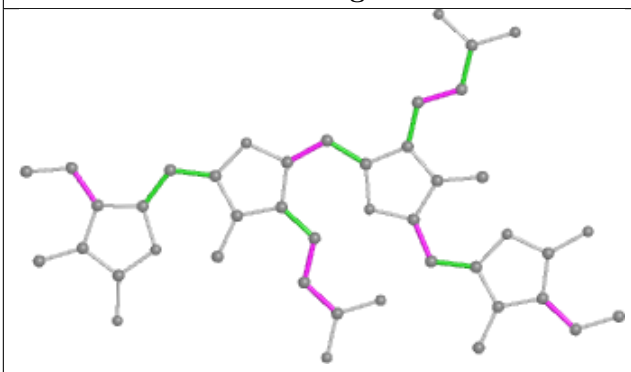
Ligand CYC U6 201



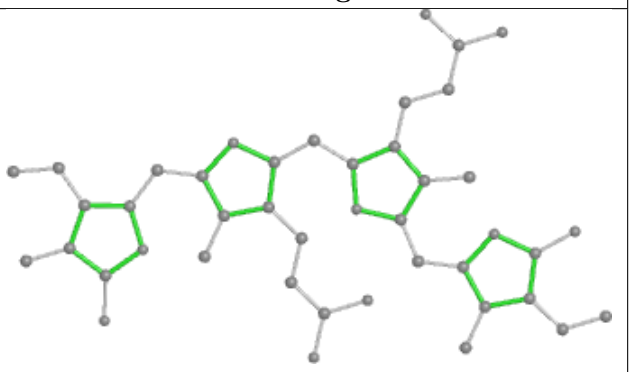
Bond lengths



Bond angles

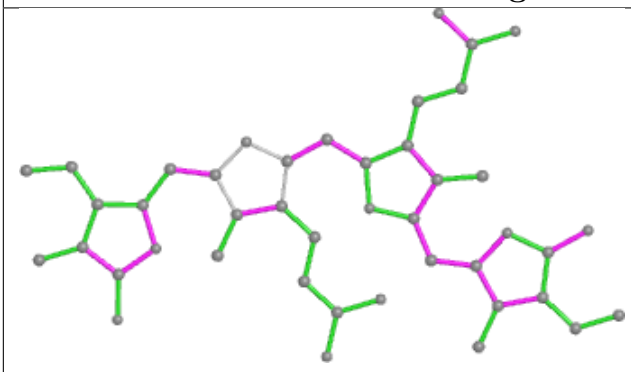


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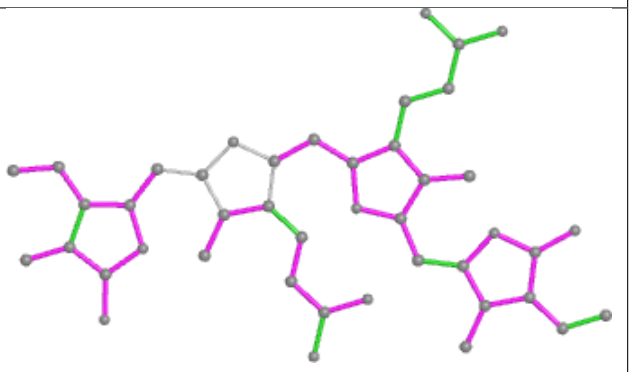


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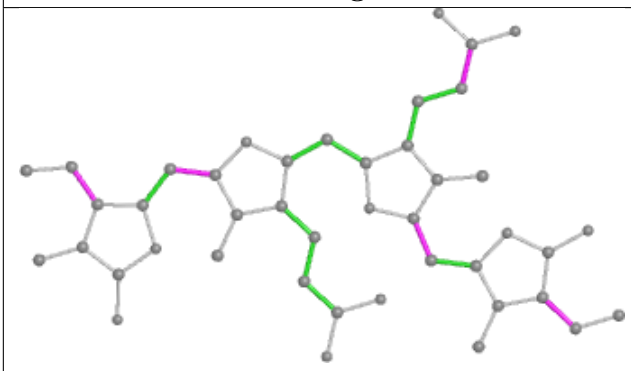
Ligand CYC M8 202



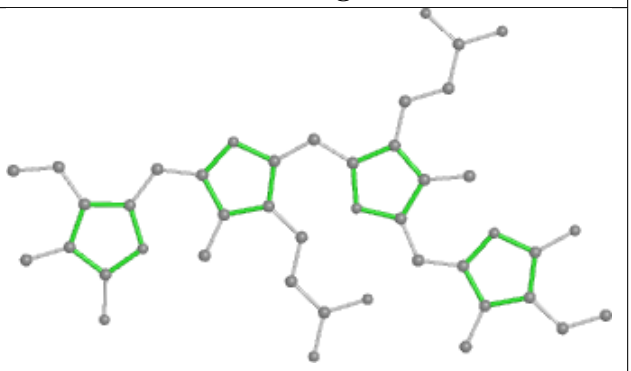
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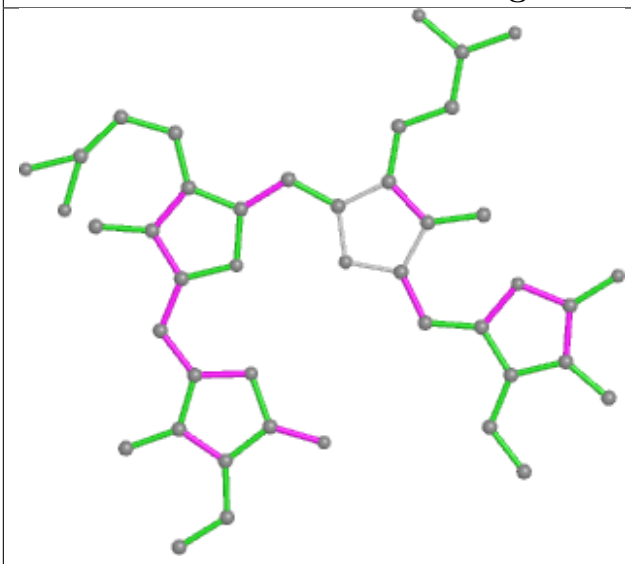


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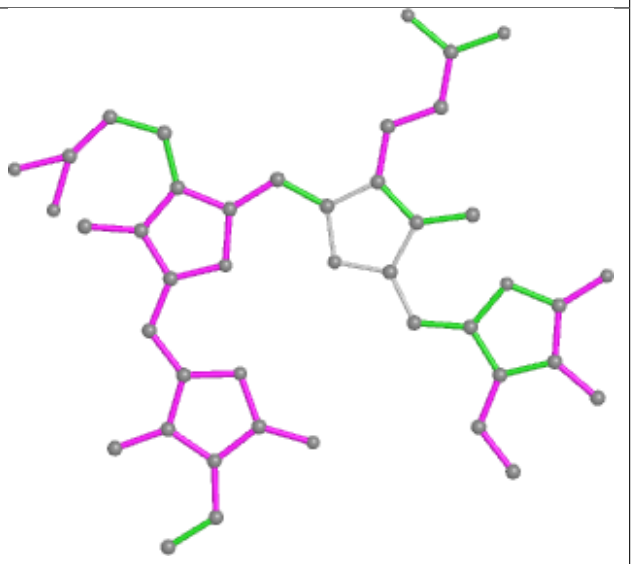


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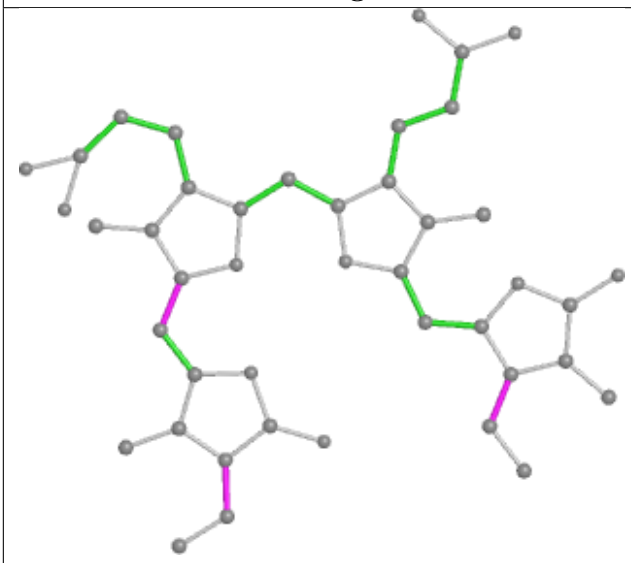
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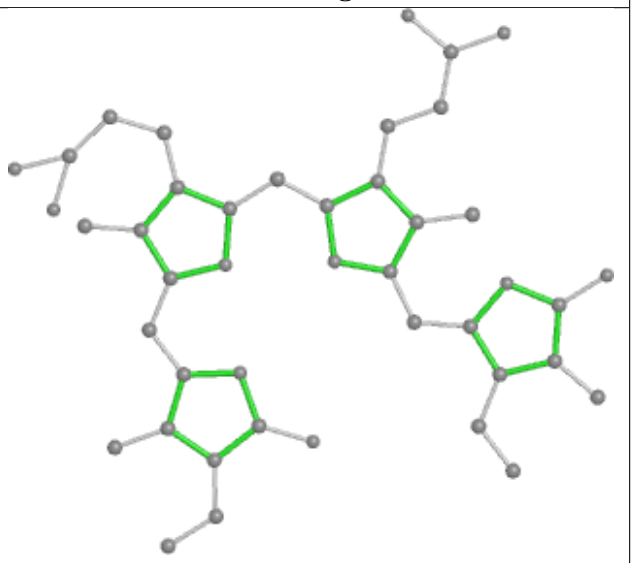
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Bond angles

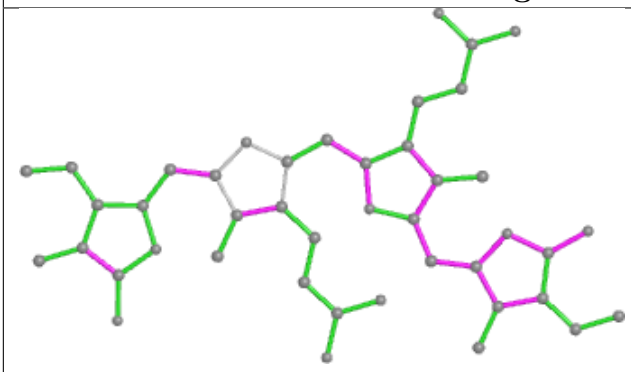


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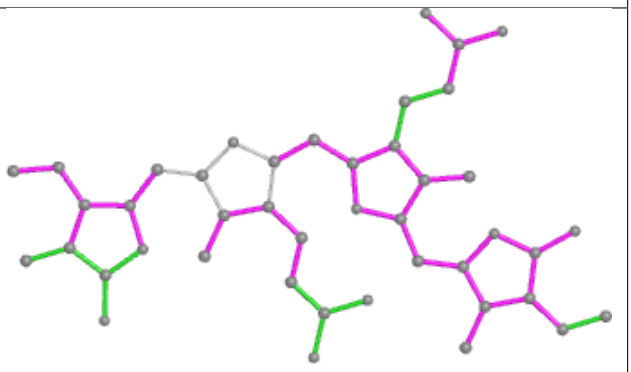


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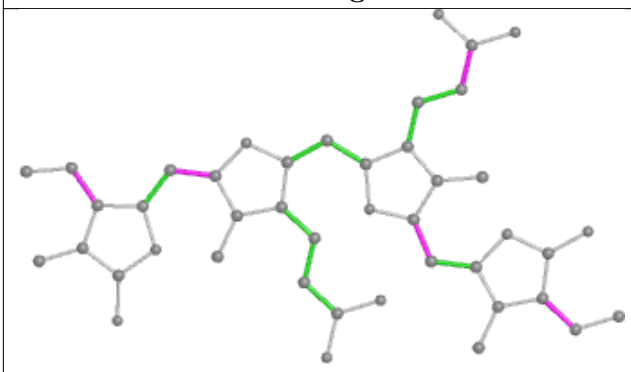
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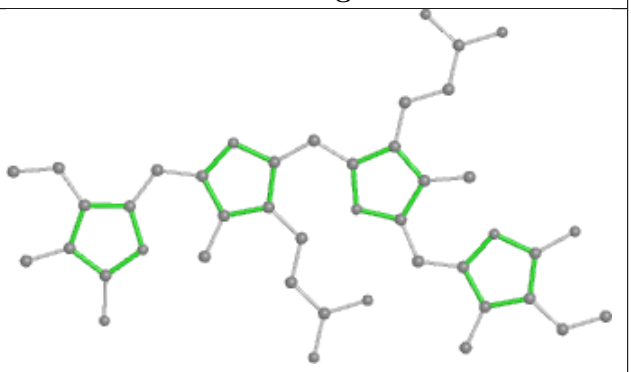
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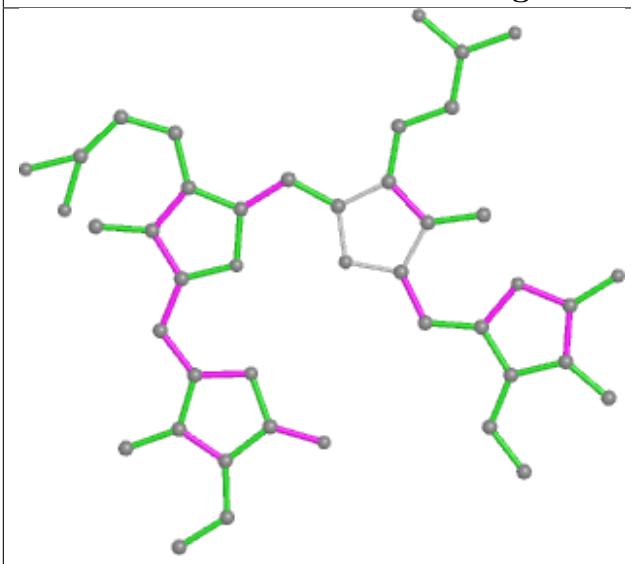


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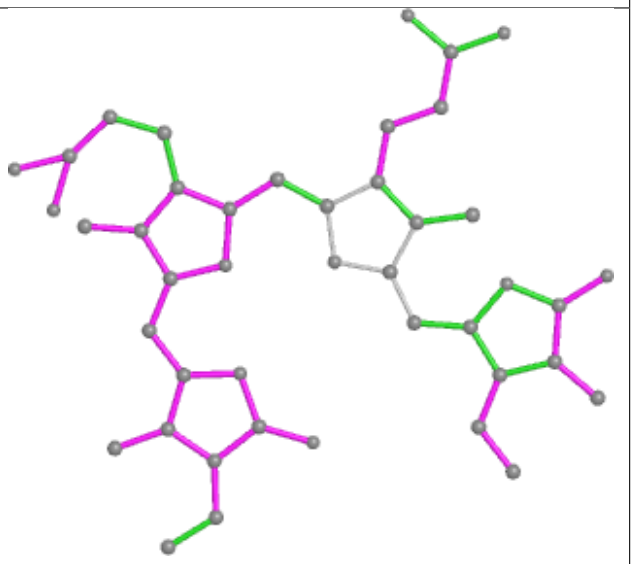


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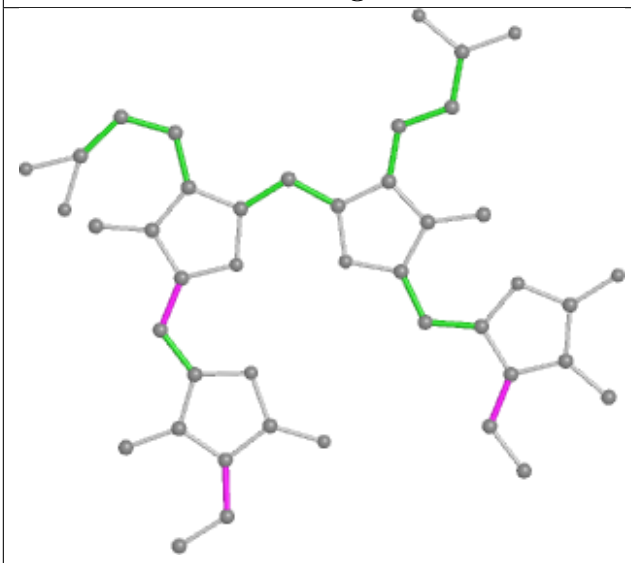
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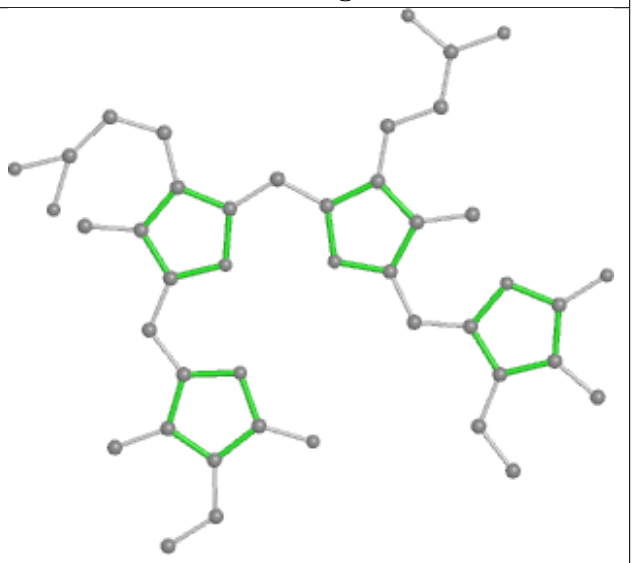
Bond lengths



Bond angles

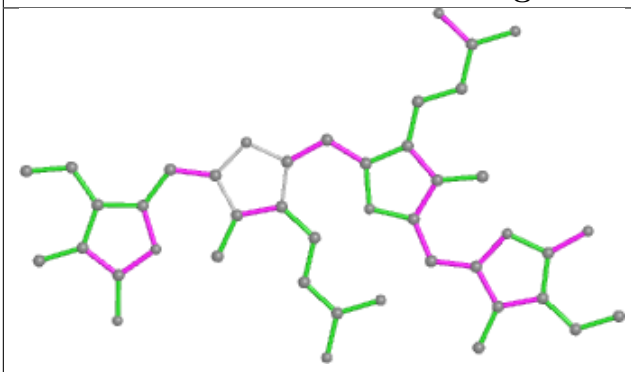


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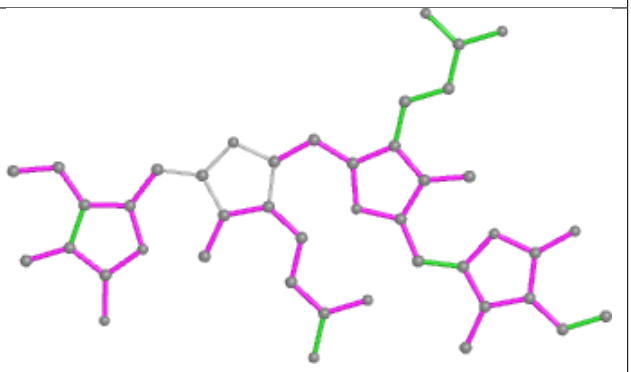


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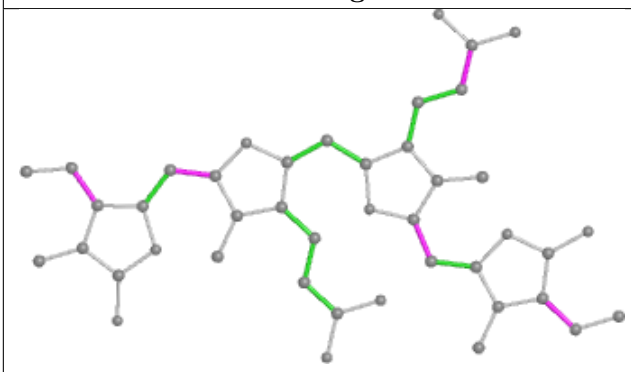
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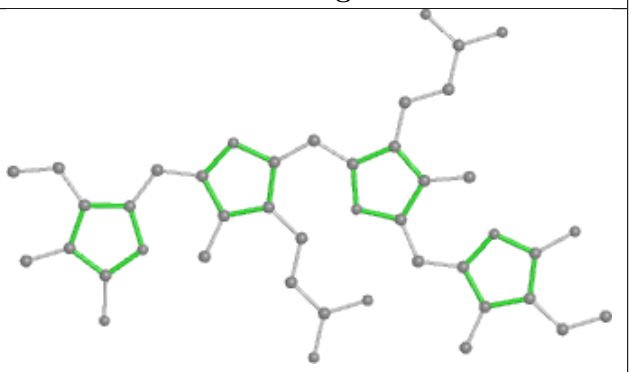
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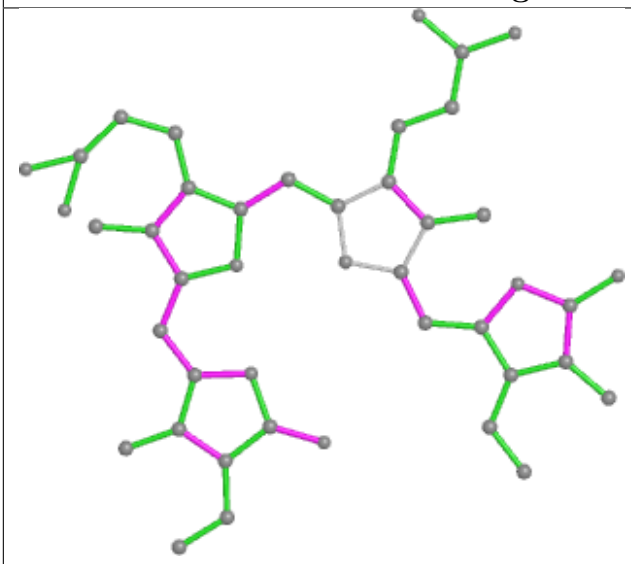


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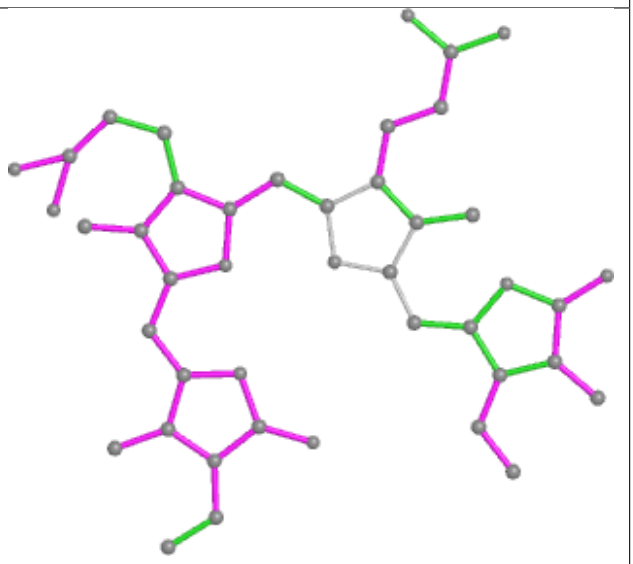


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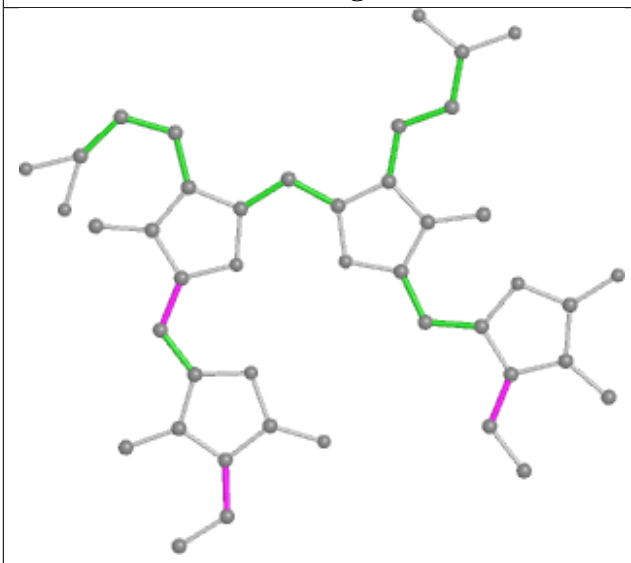
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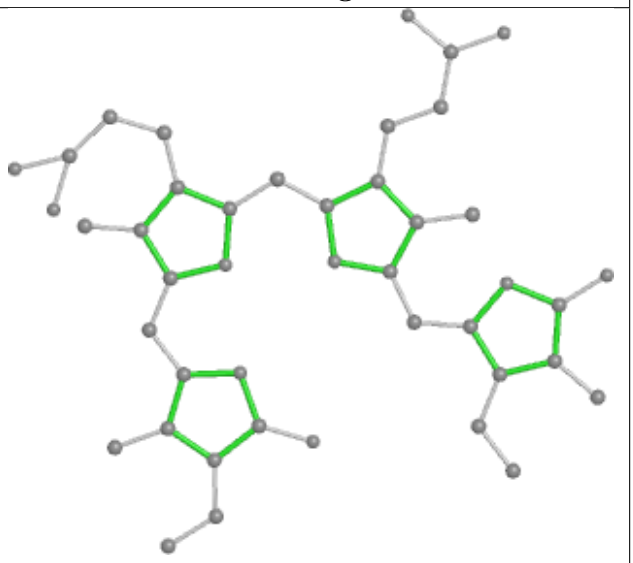
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Bond angles

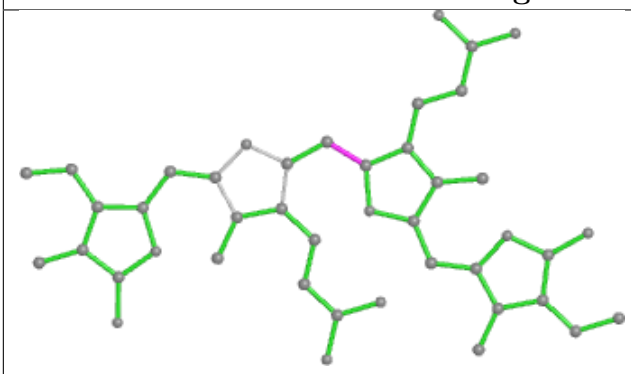


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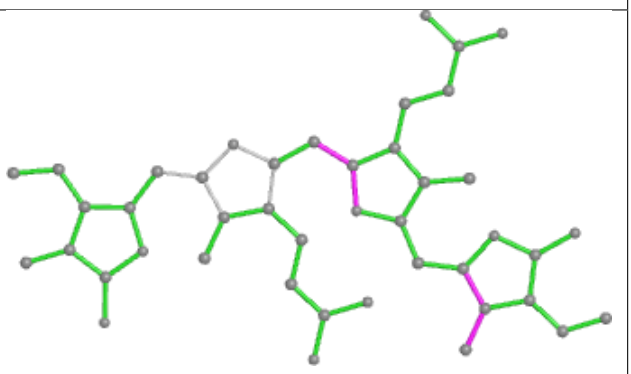


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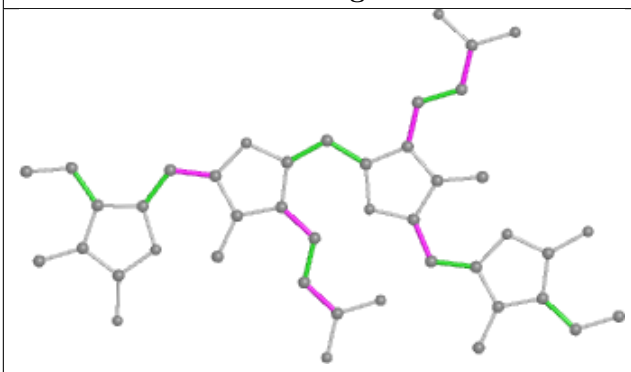
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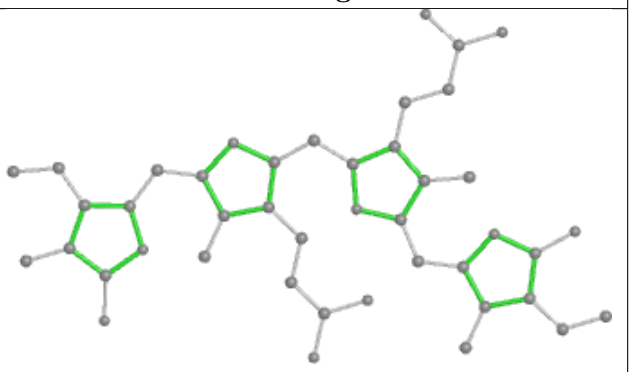
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Bond angles

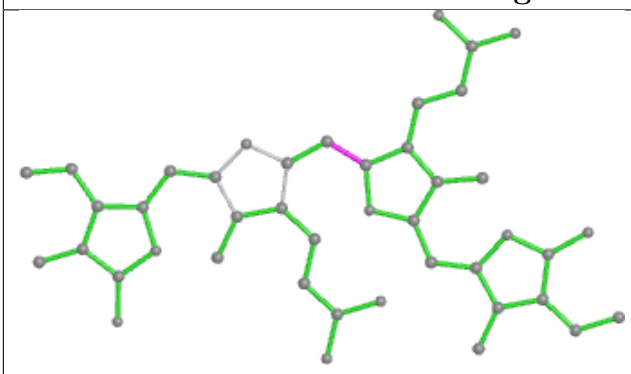


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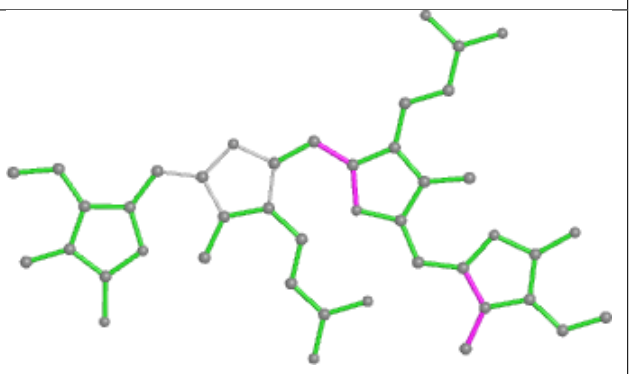


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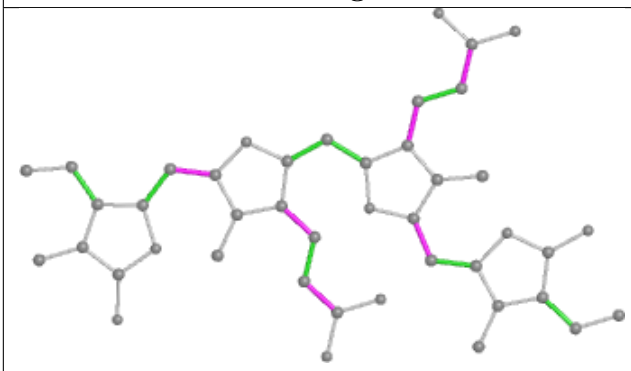
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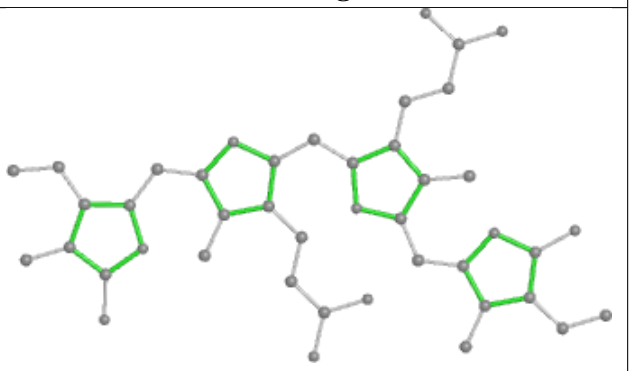
Bond lengths



Bond angles

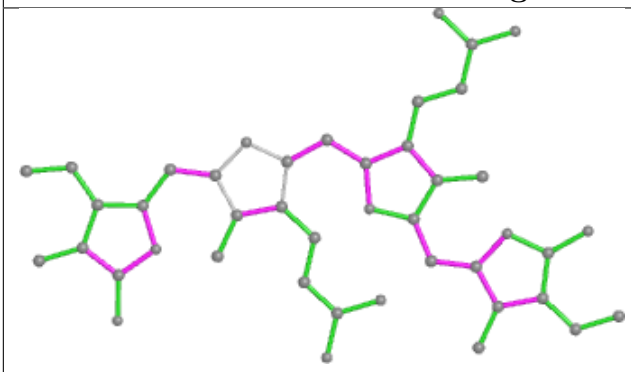


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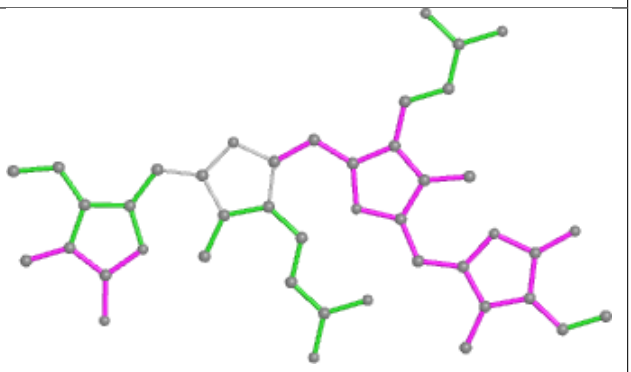


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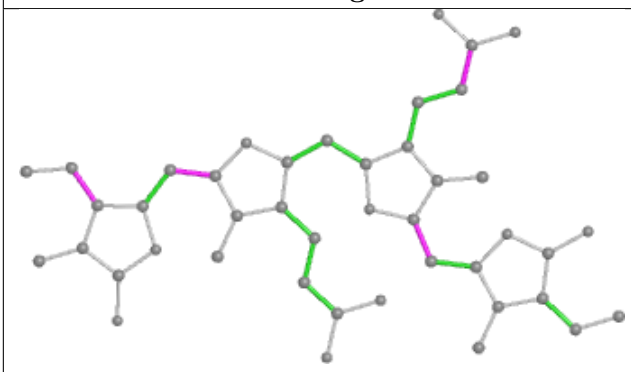
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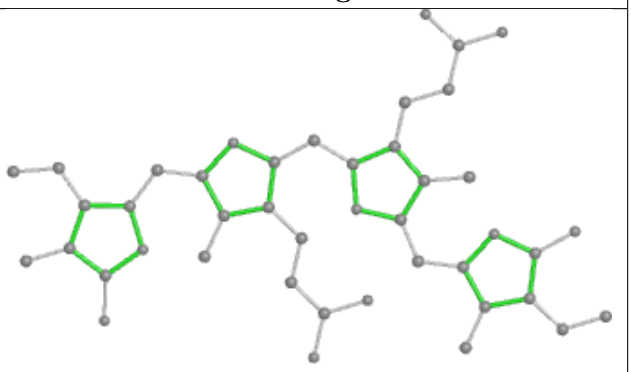
Bond lengths



Bond angles

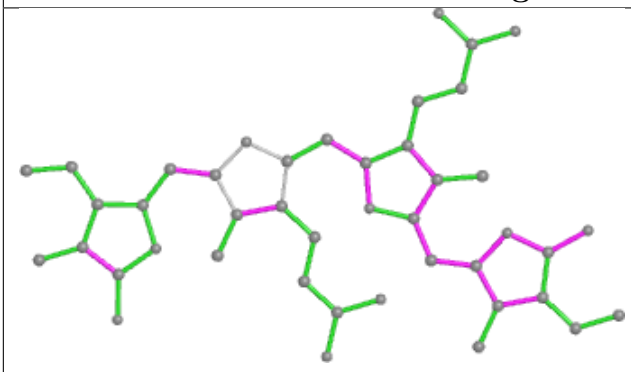


Torsions

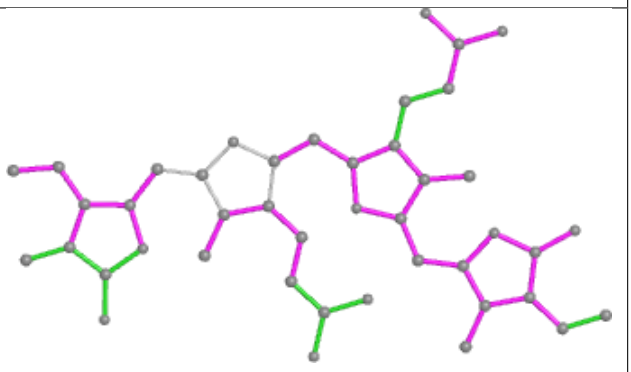


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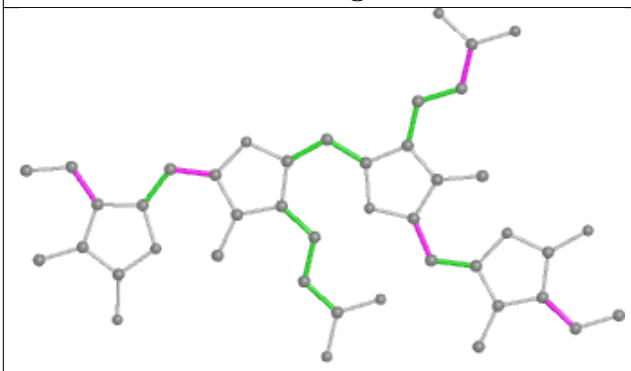
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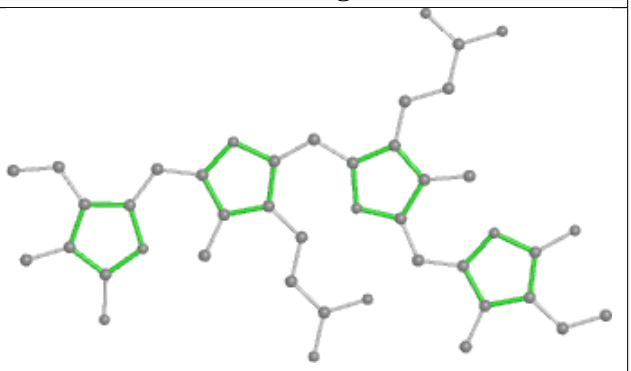
Bond lengths



Bond angles

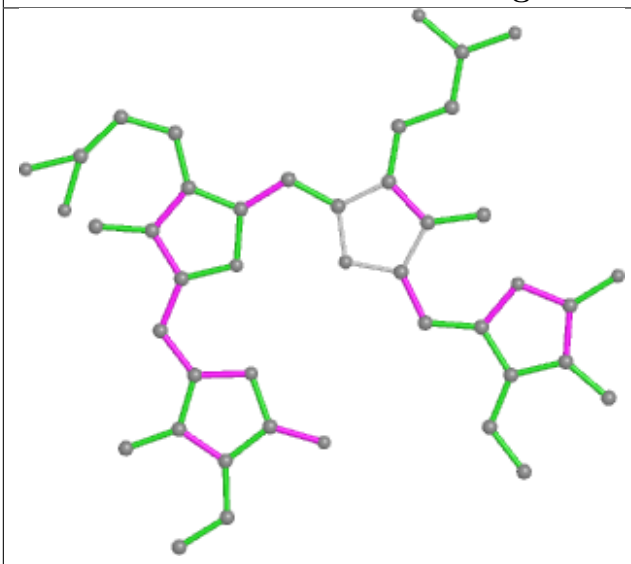


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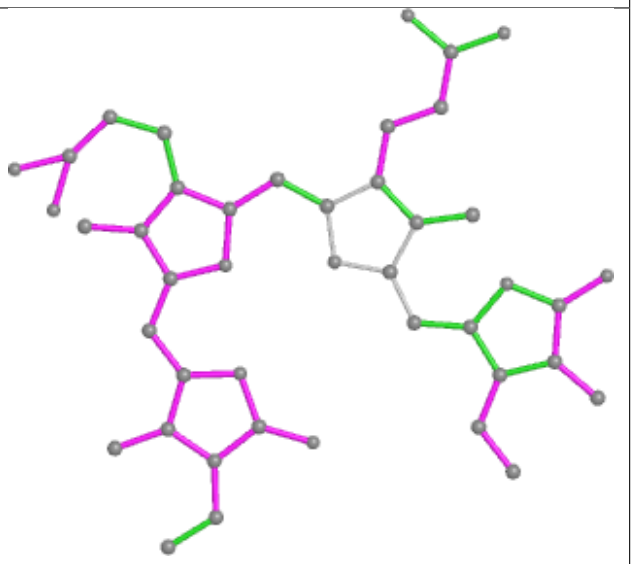


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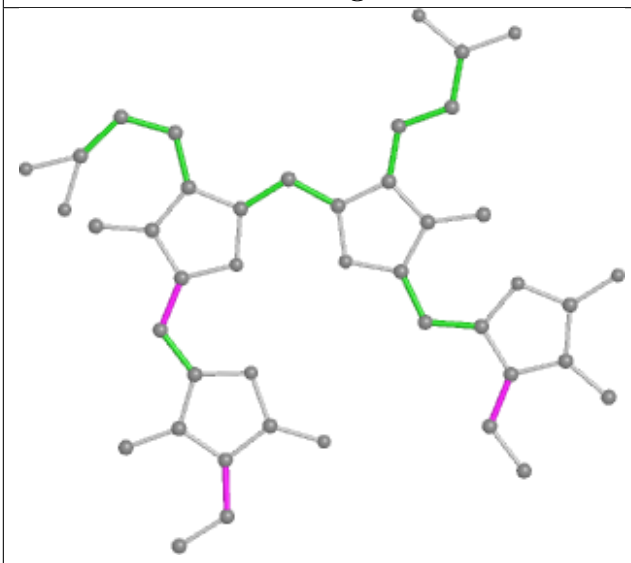
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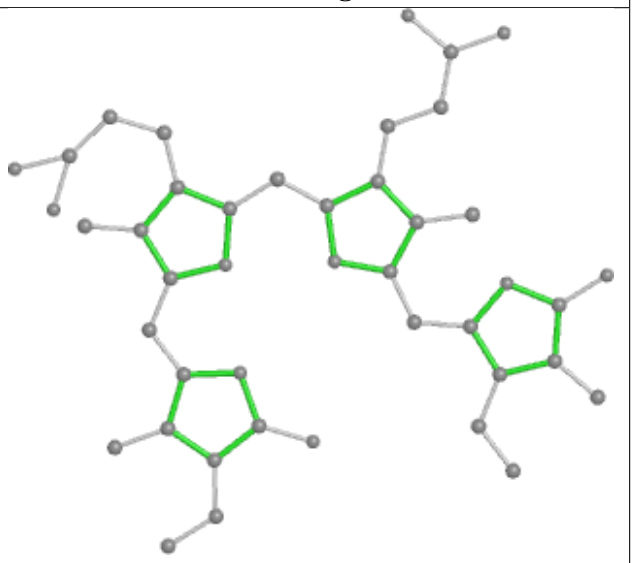
Bond lengths



Bond angles

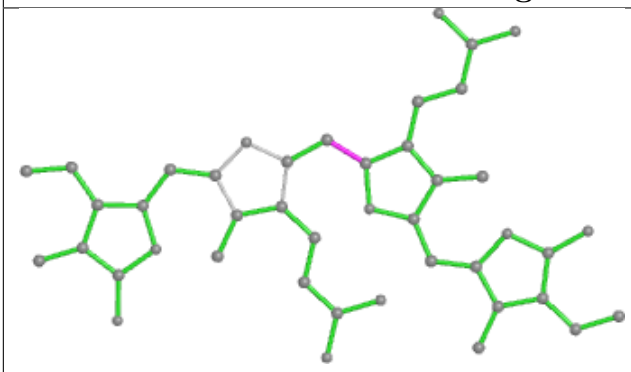


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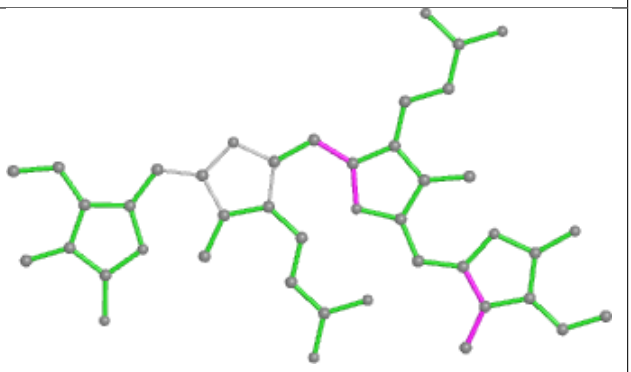


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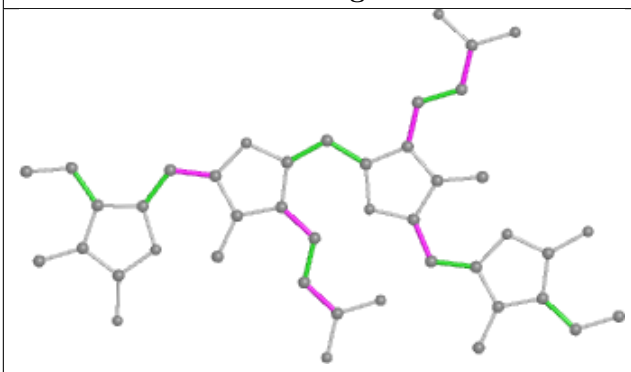
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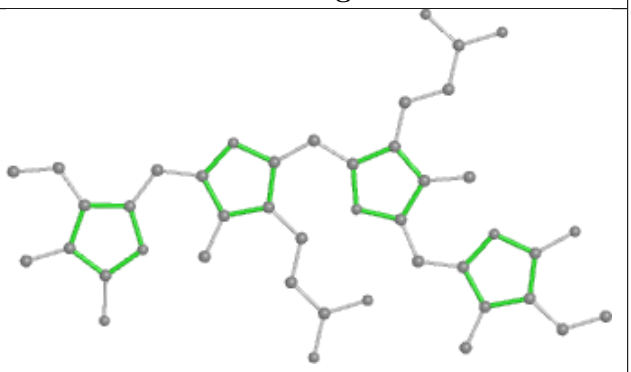
Bond lengths



Bond angles

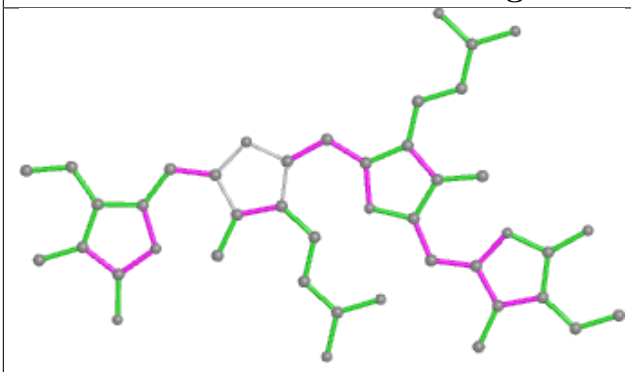


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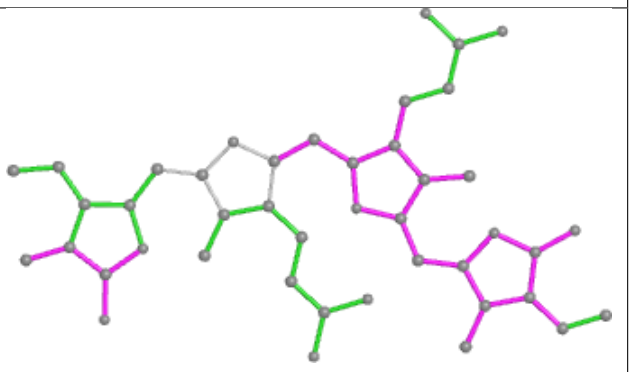


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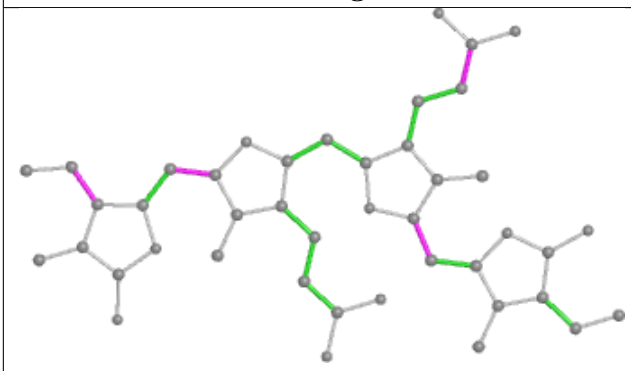
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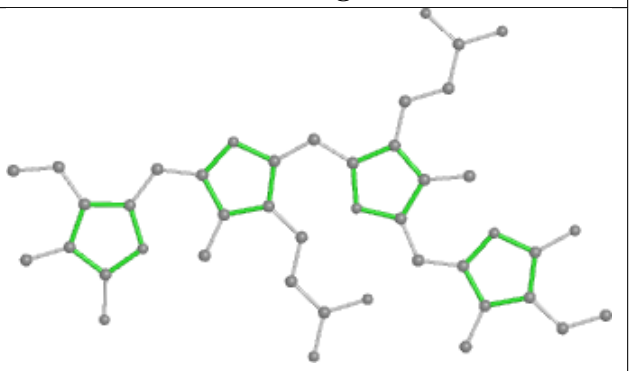
Bond lengths



Bond angles

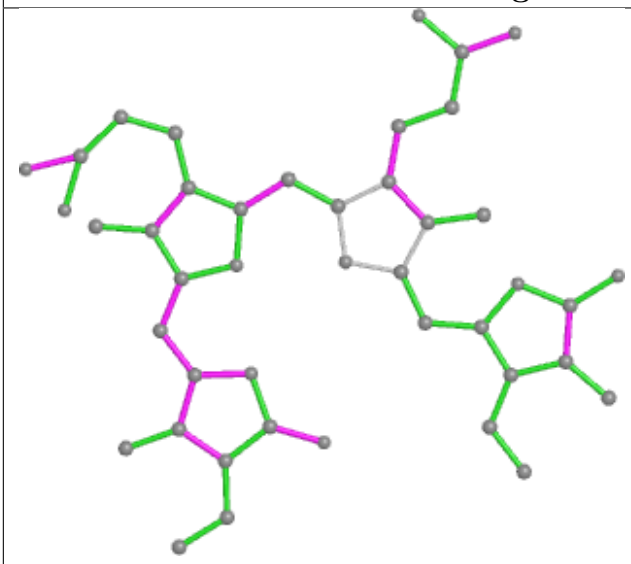


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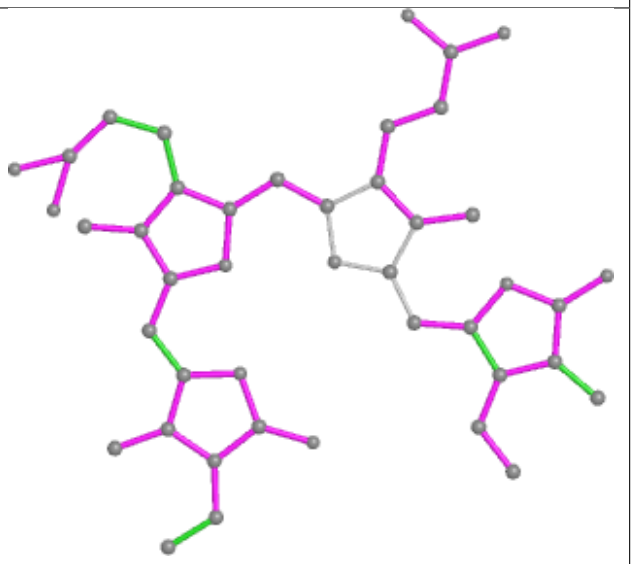


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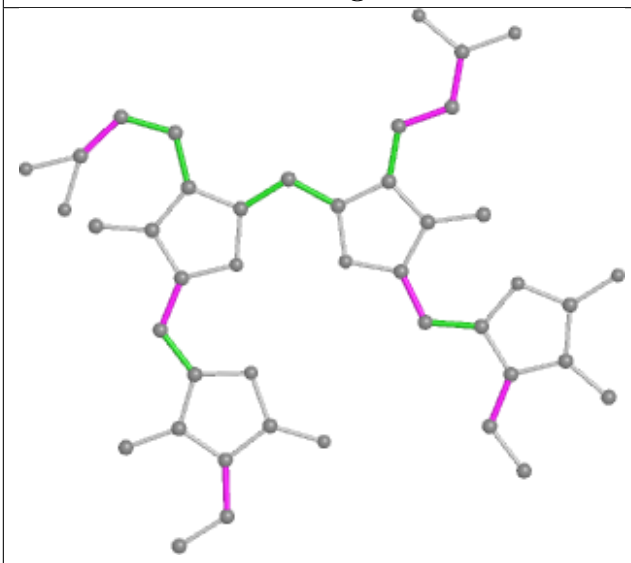
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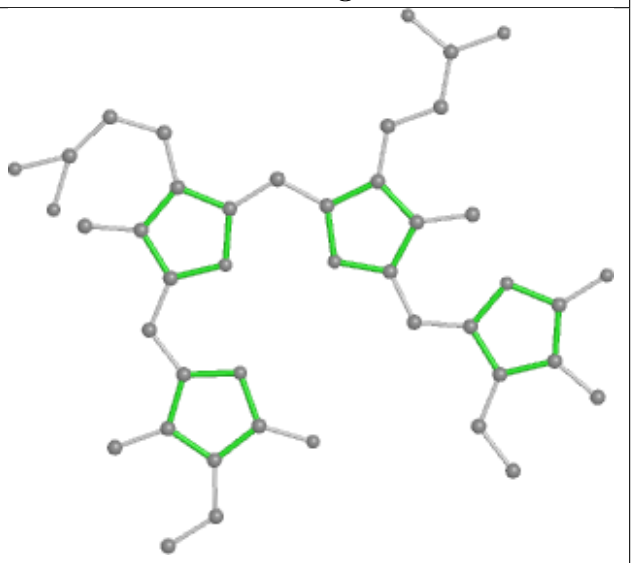
Bond lengths



Bond angles

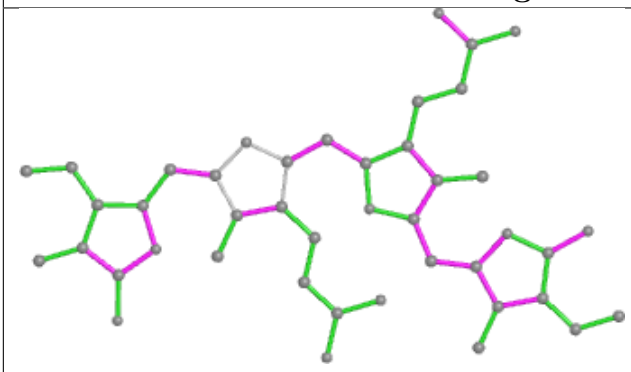


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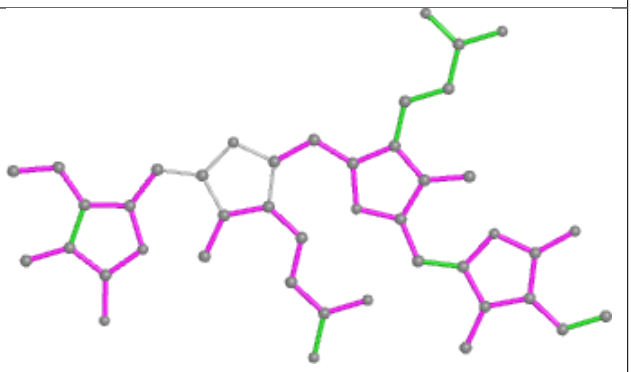


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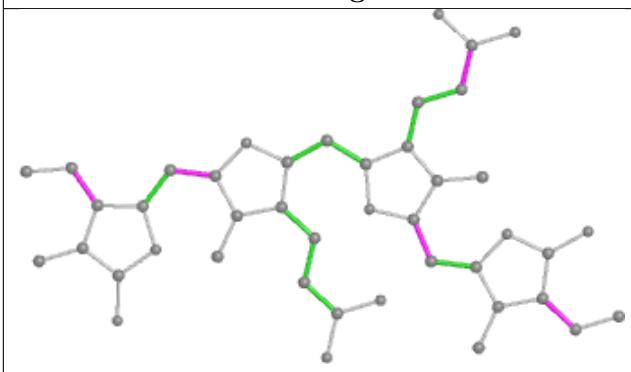
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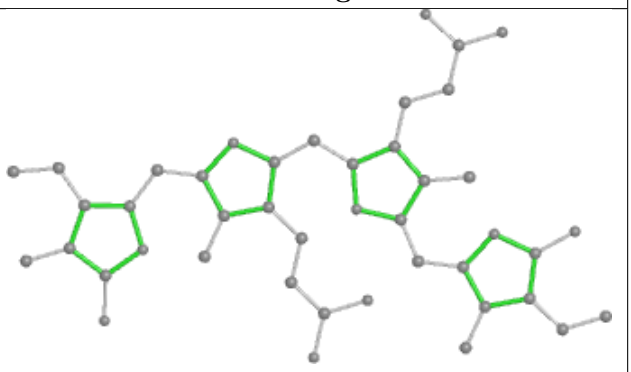
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Bond angles

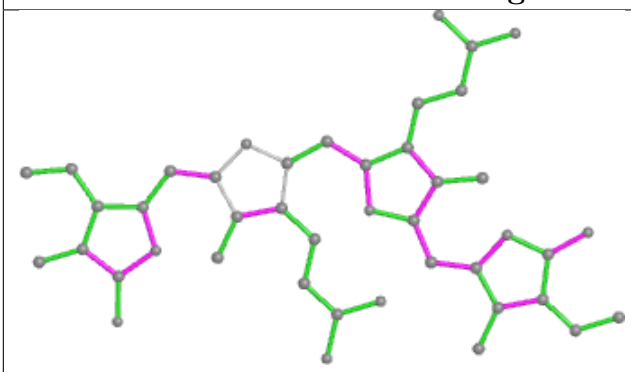


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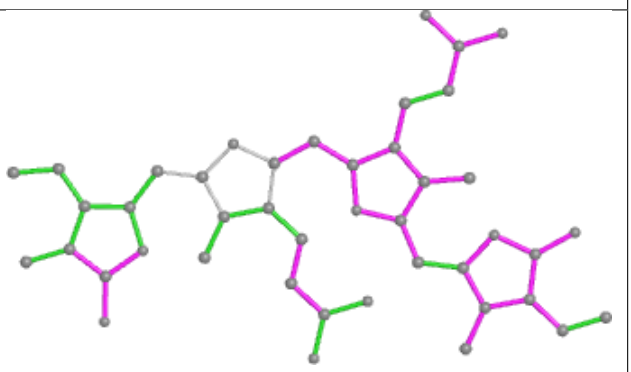


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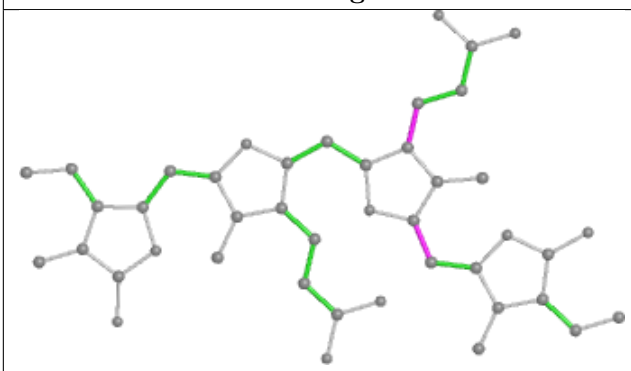
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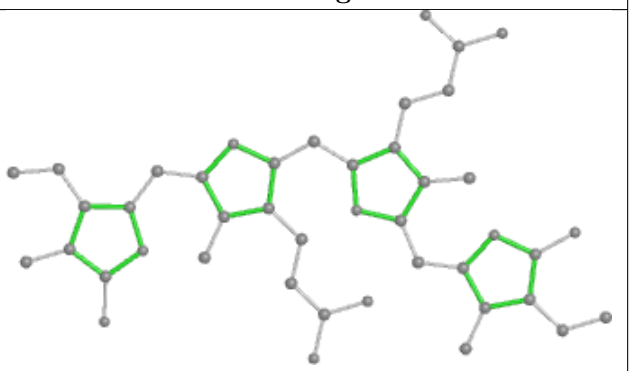
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Bond angles

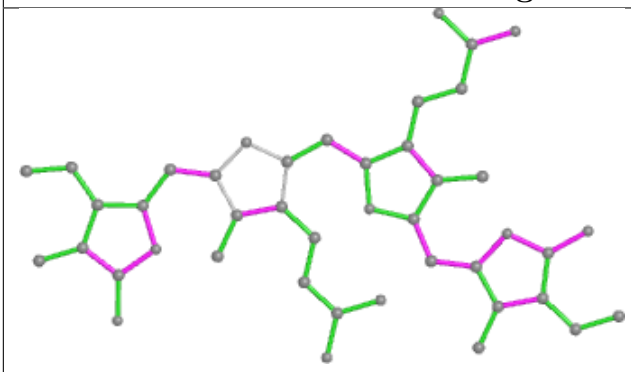


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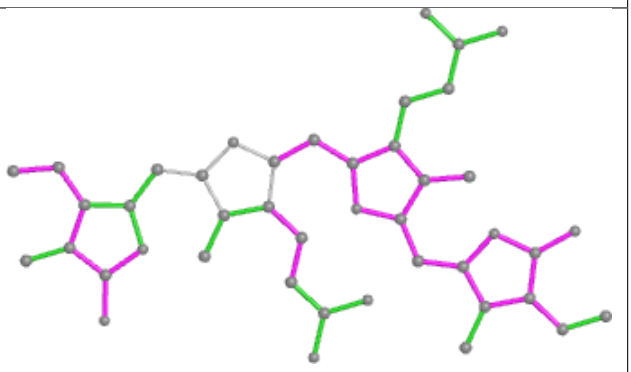


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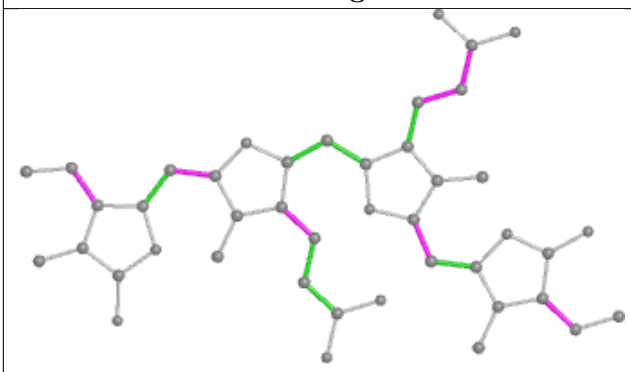
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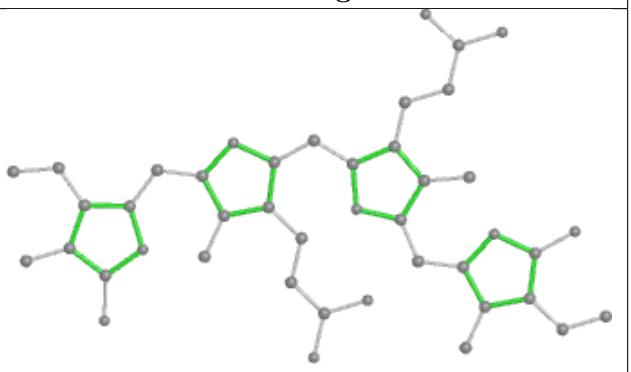
Bond lengths



Bond angles

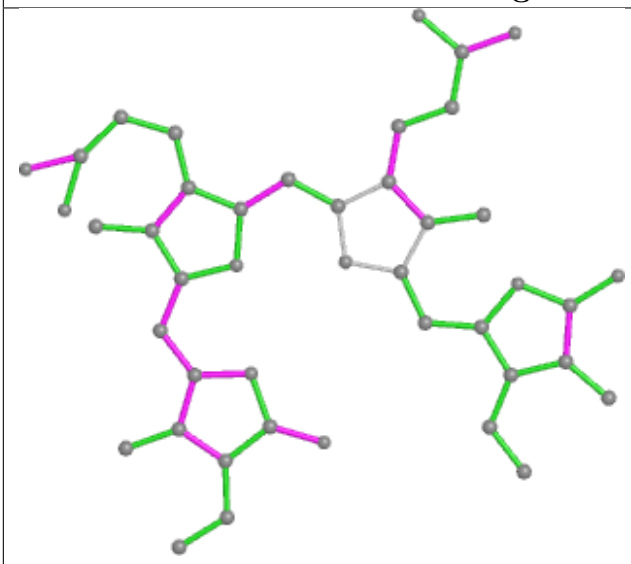


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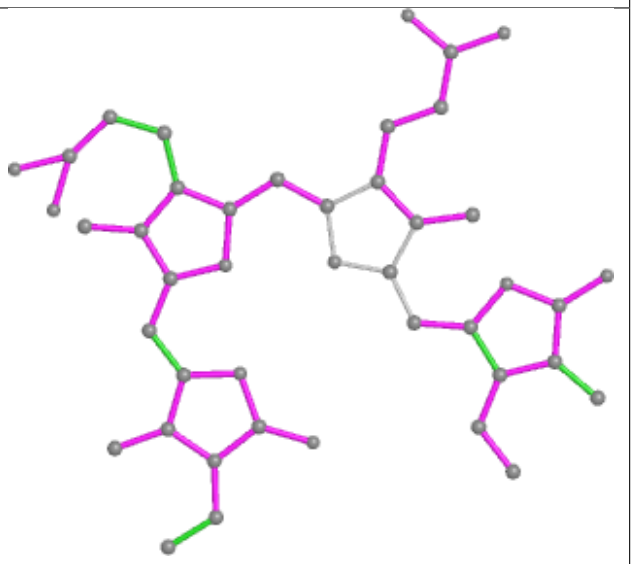


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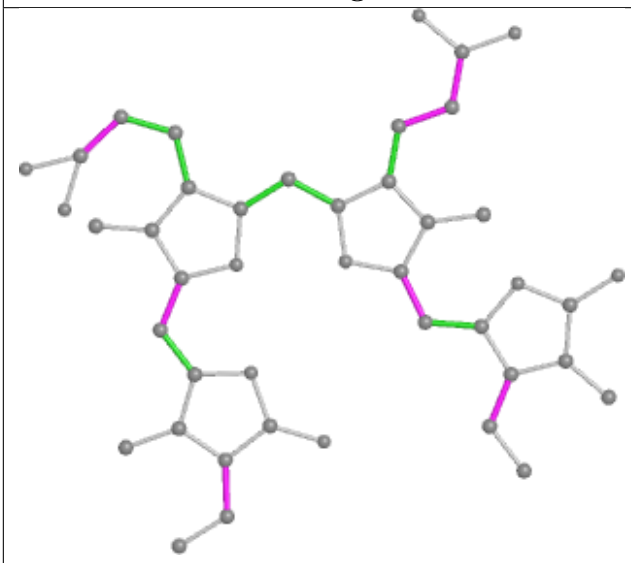
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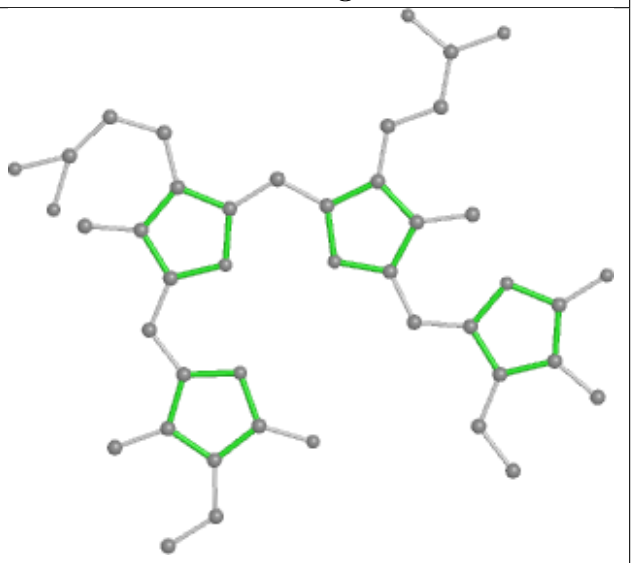
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Bond angles

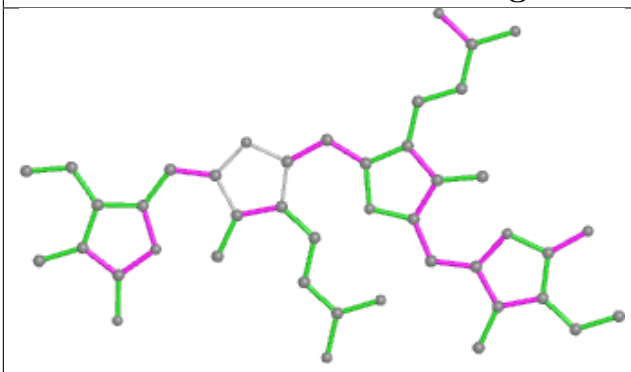


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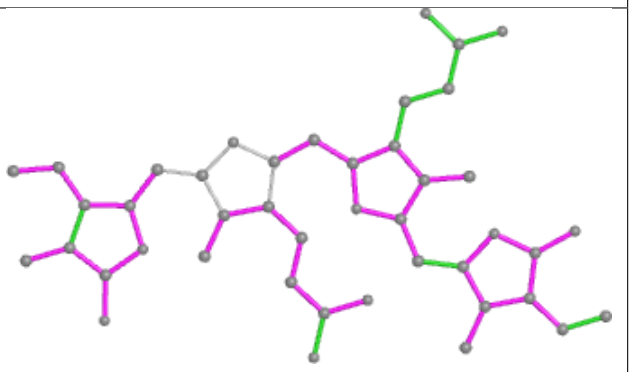


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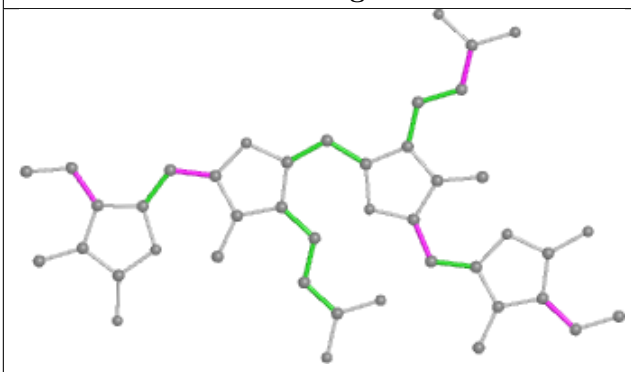
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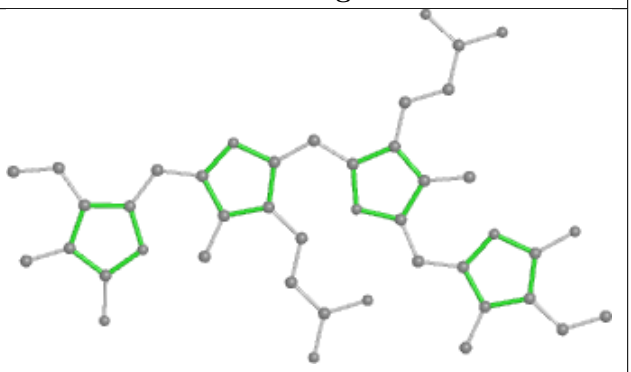
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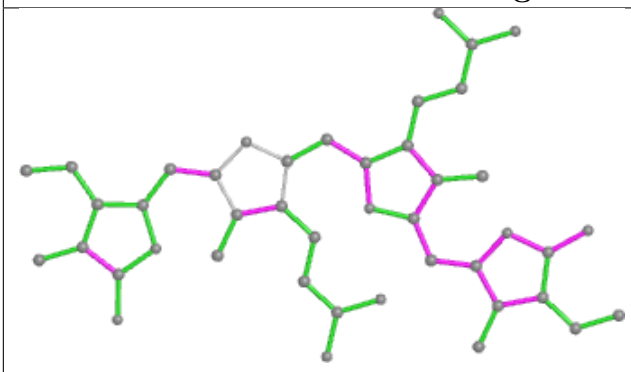


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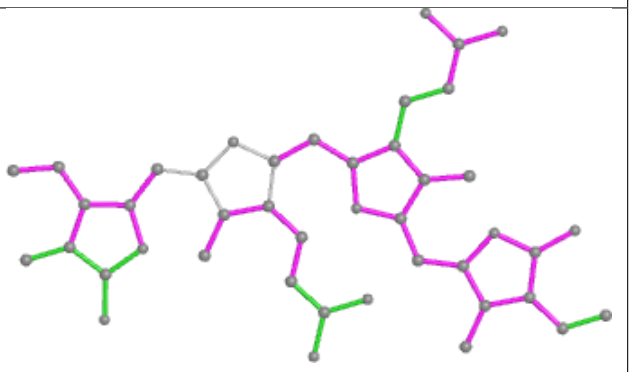


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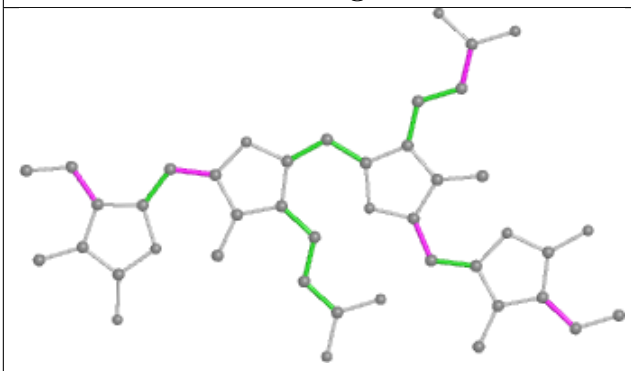
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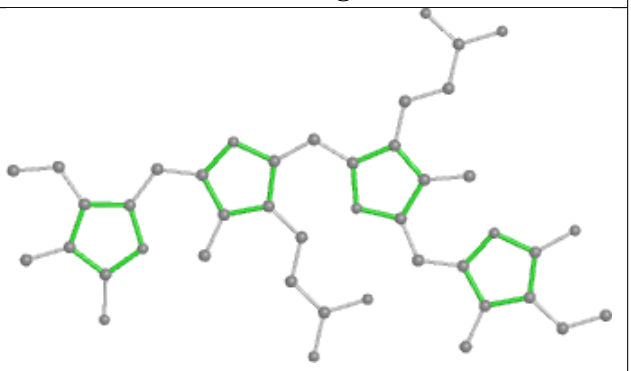
Bond lengths



Bond angles

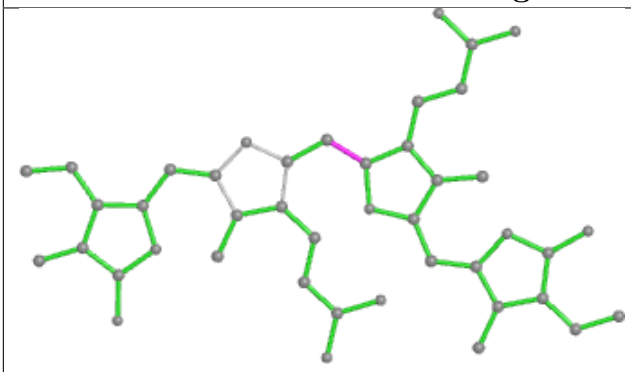


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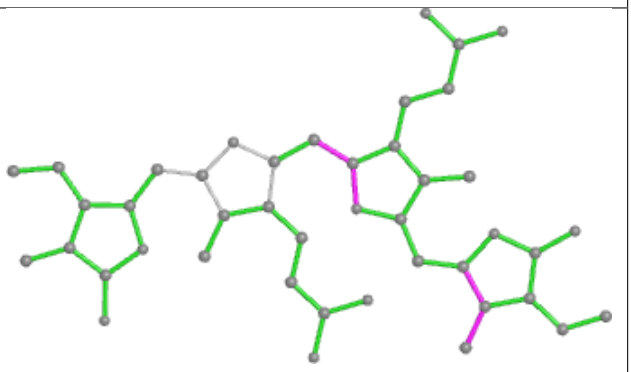


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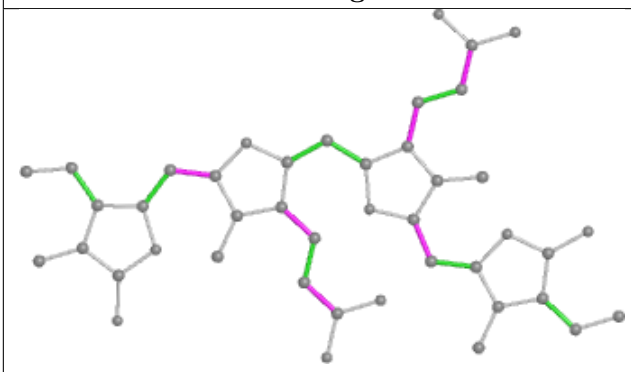
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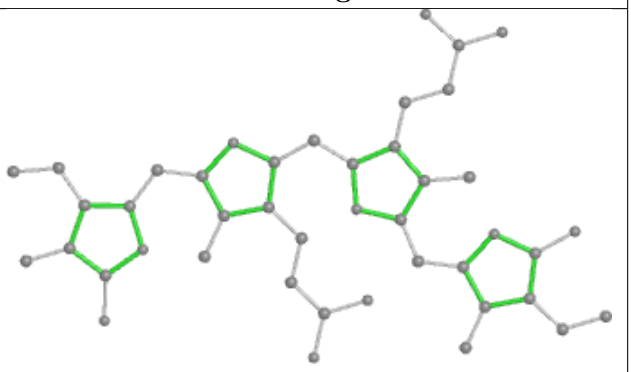
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Bond angles

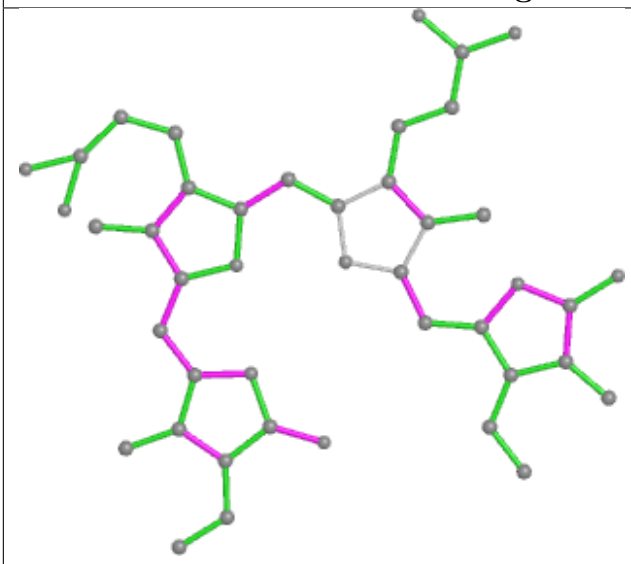


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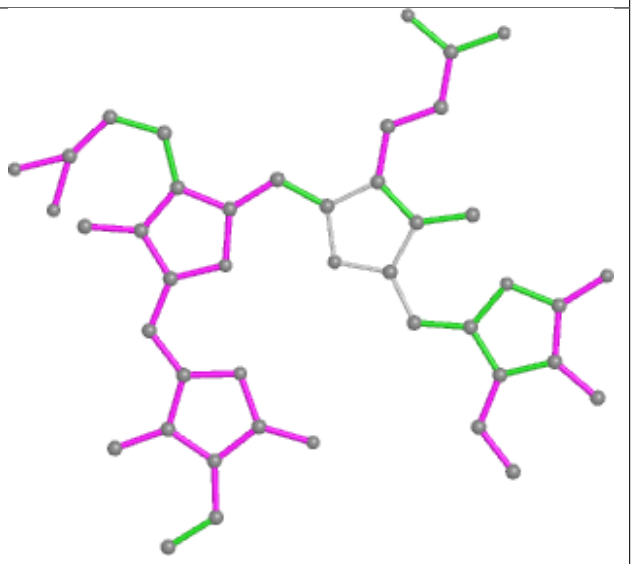


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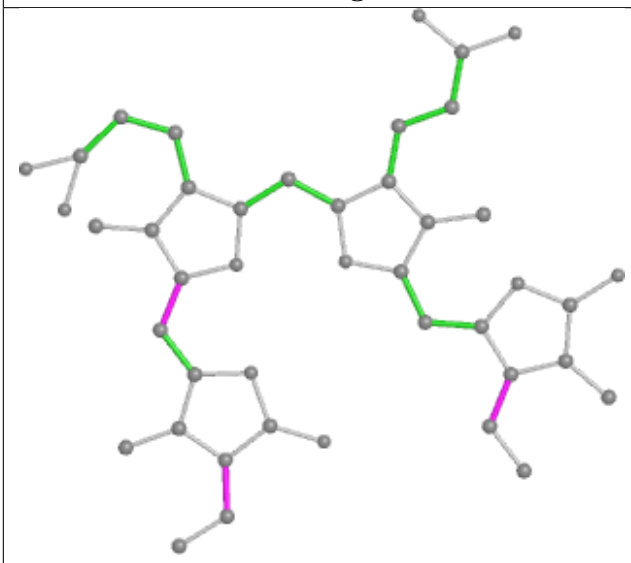
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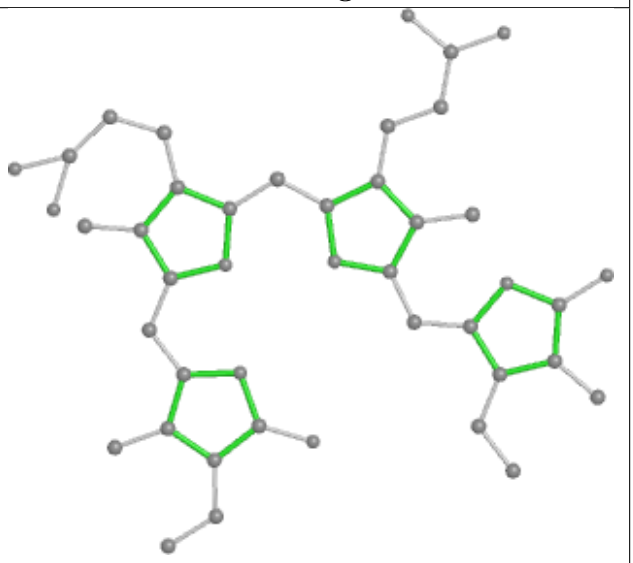
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Bond angles

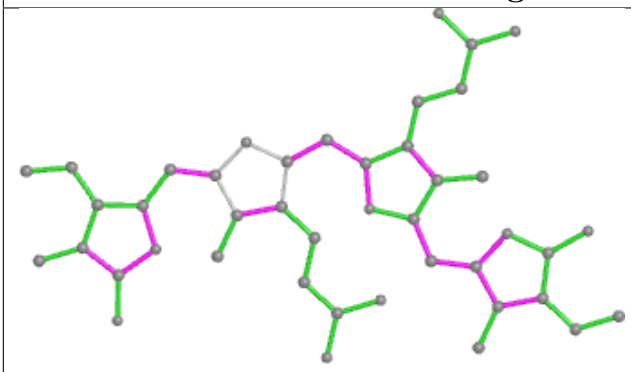


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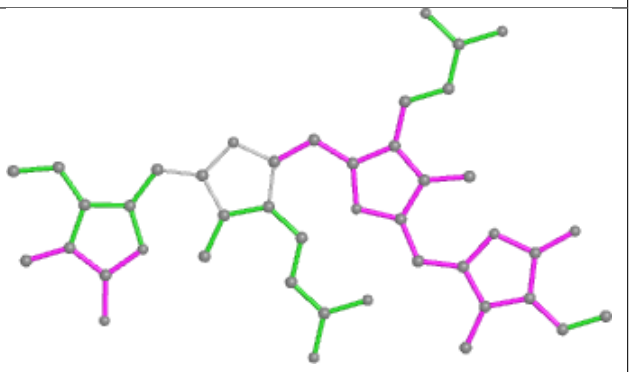


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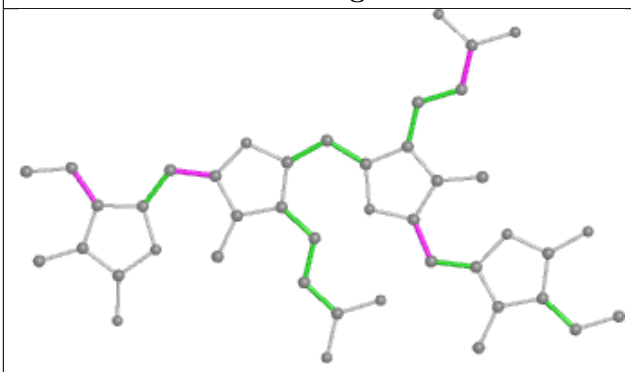
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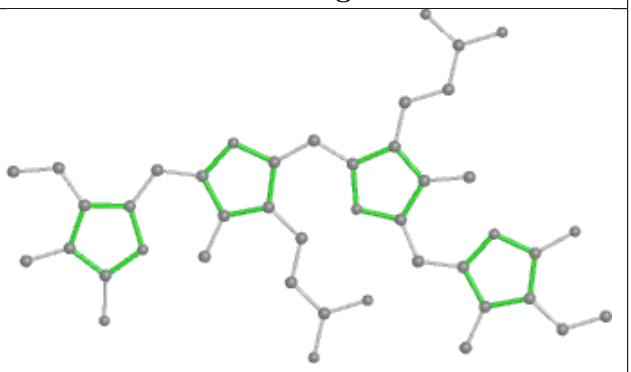
Bond lengths



Bond angles

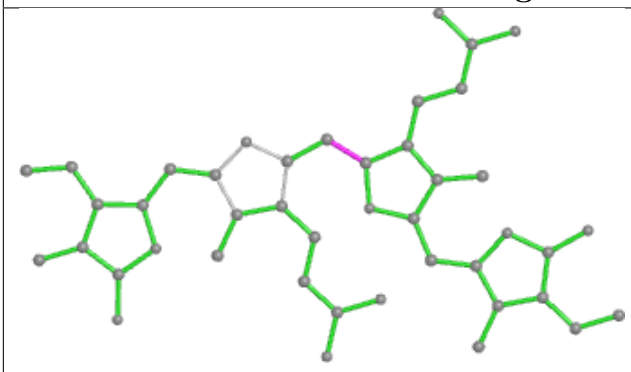


Torsions

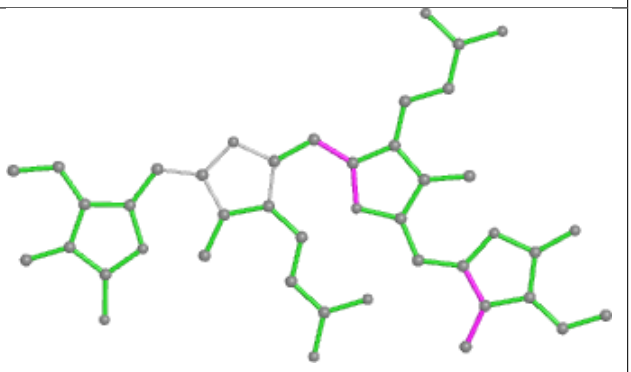


Rings

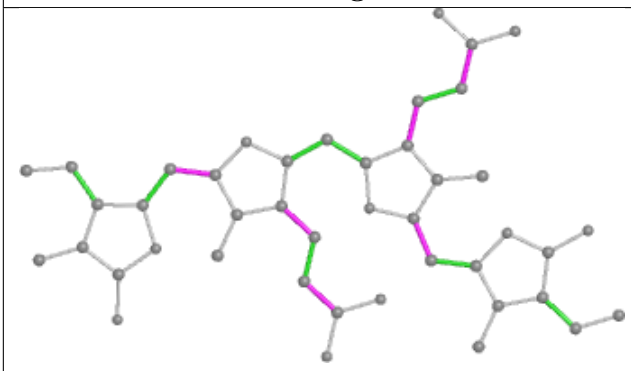
Ligand CYC Z8 202



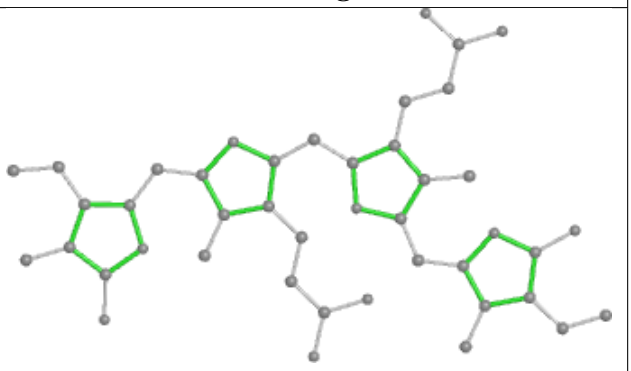
Bond lengths



Bond angles

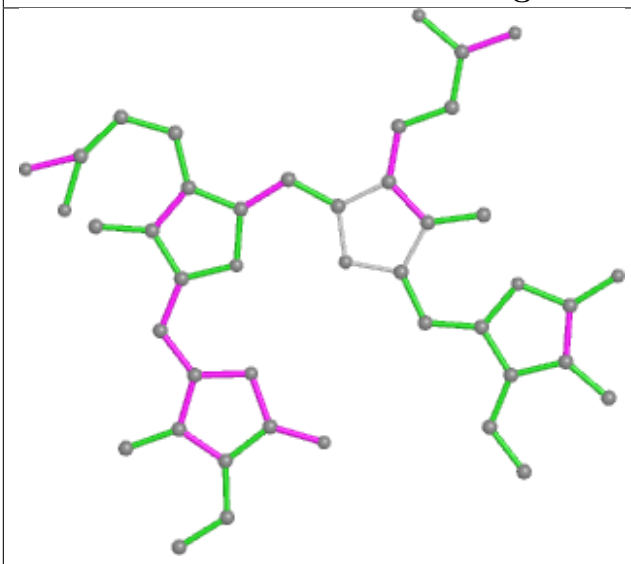


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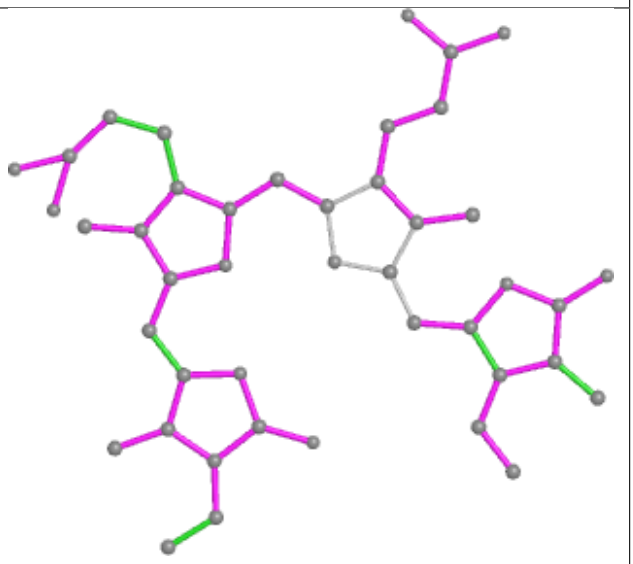


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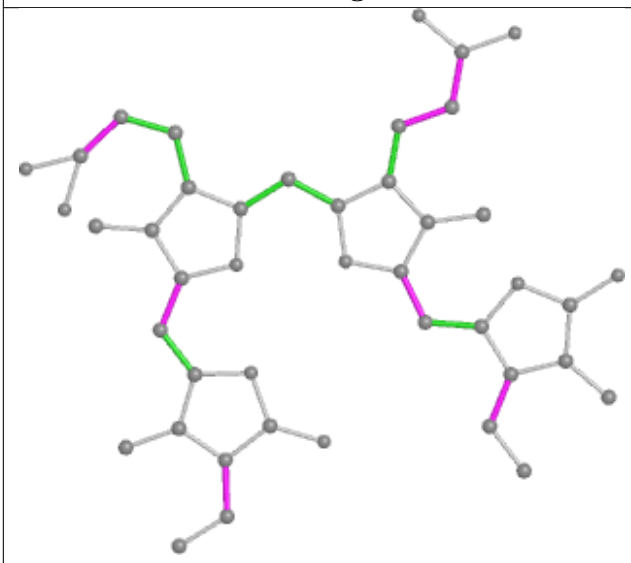
Ligand CYC B5 201



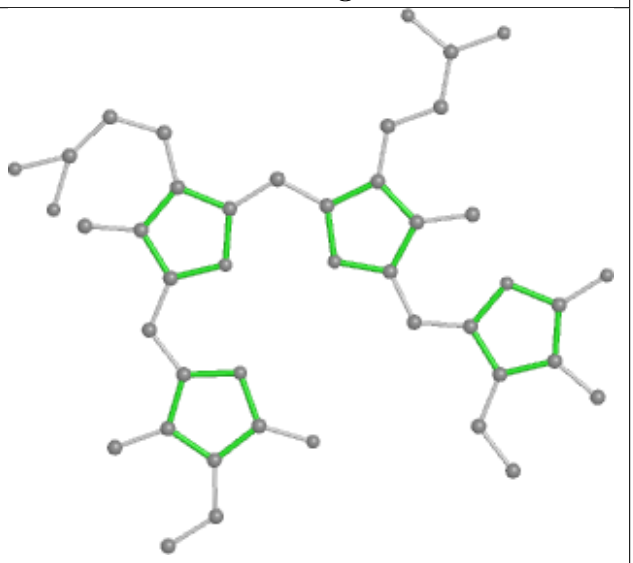
Bond lengths



Bond angles

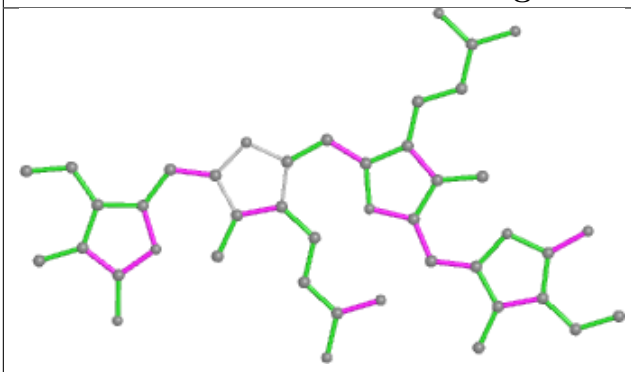


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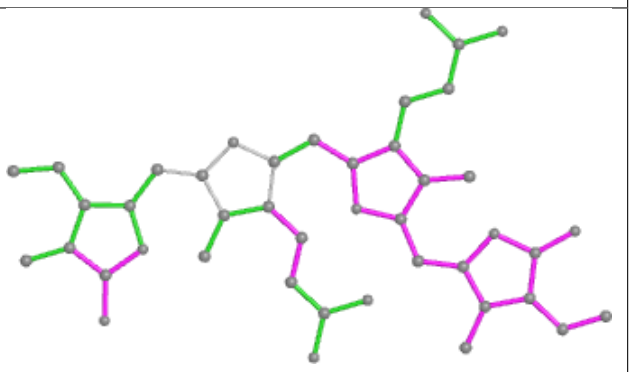


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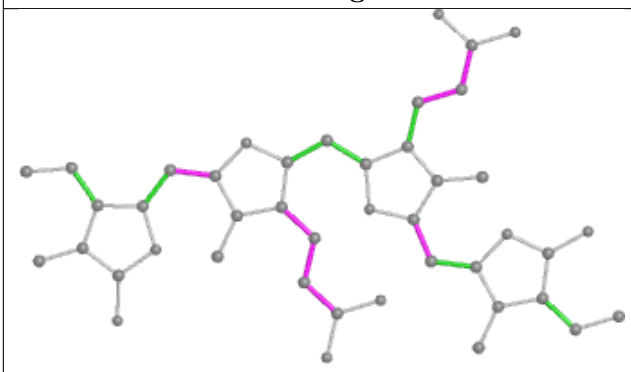
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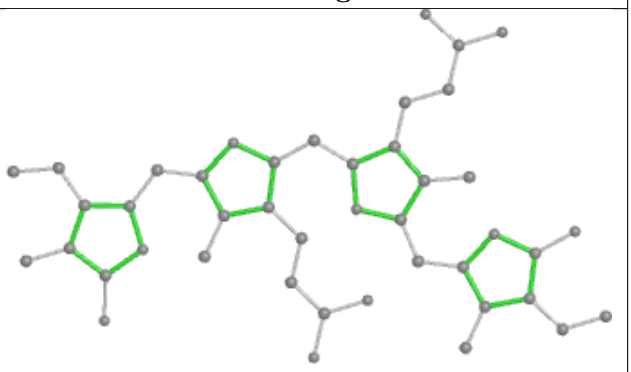
Bond lengths



Bond angles

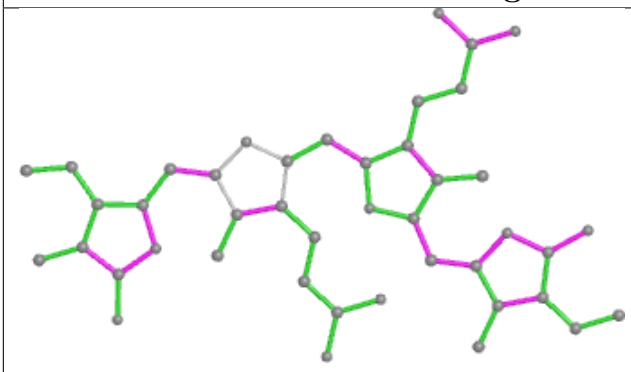


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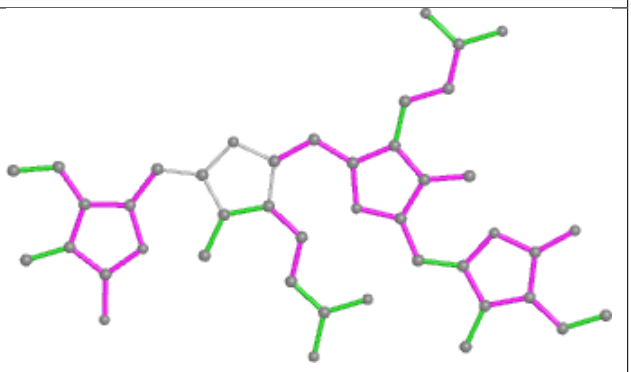


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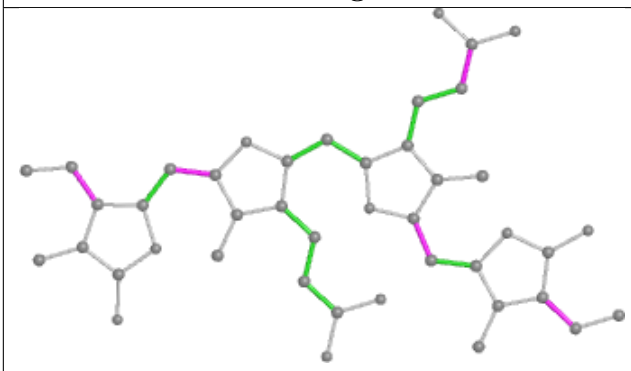
Ligand CYC O7 1001



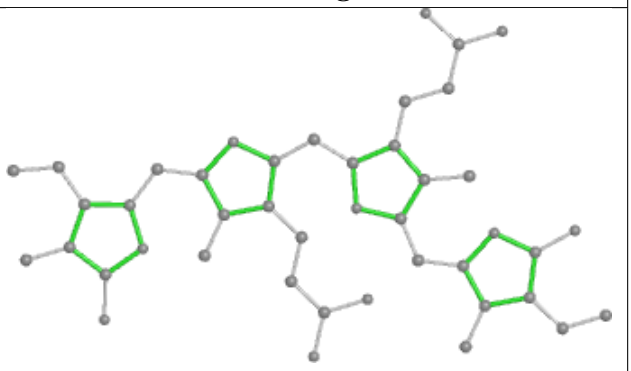
Bond lengths



Bond angles

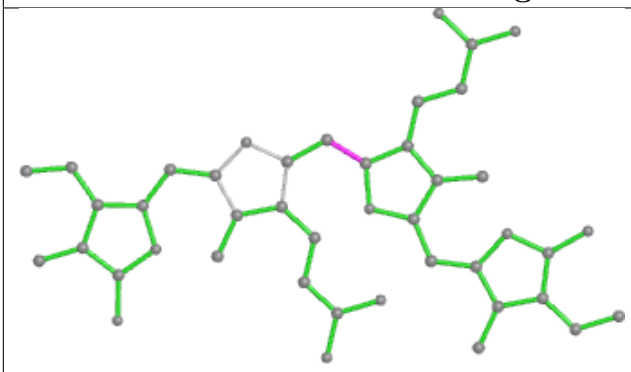


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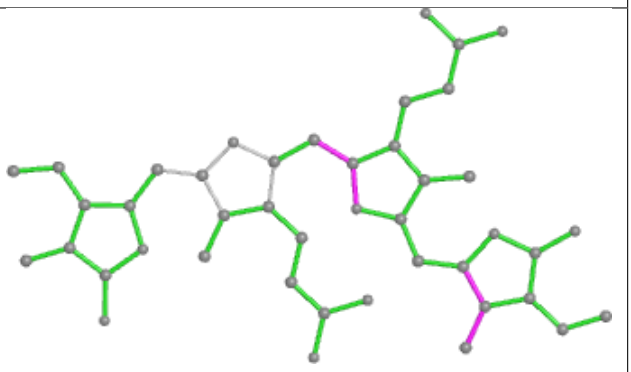


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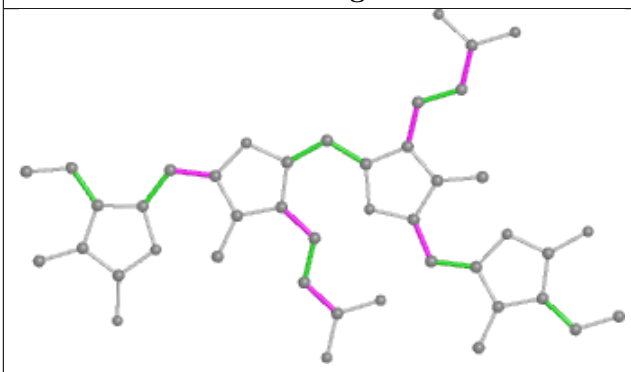
Ligand CYC E2 202



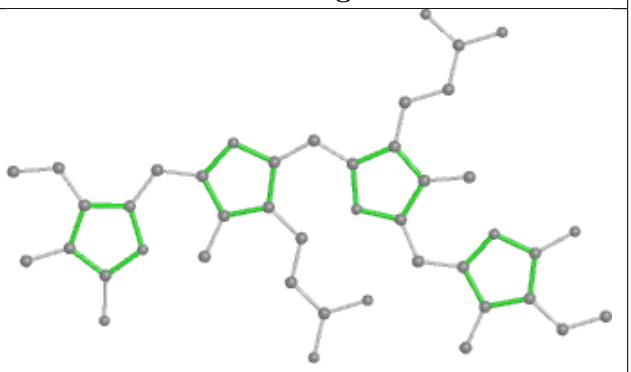
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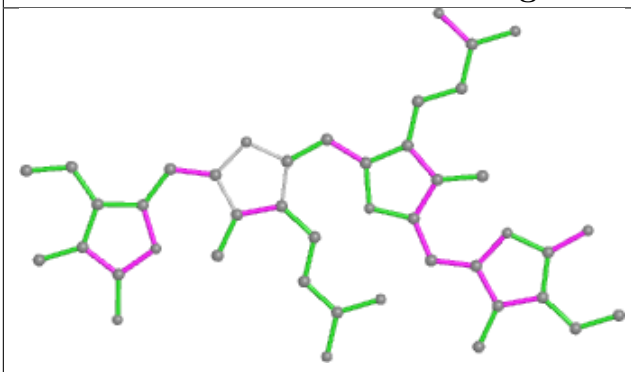


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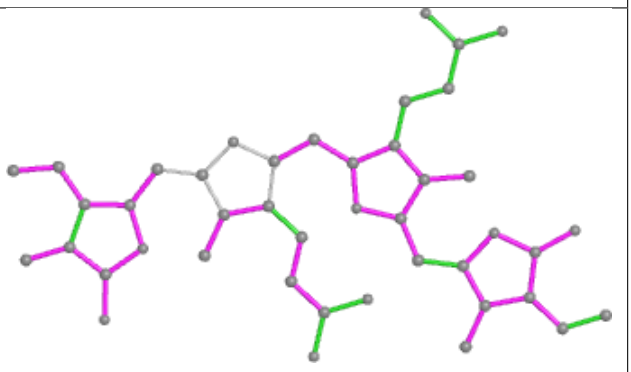


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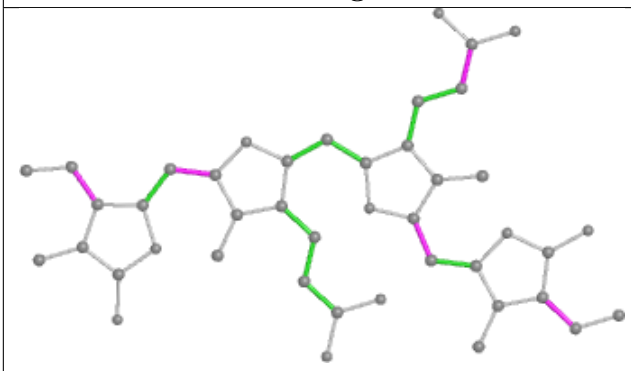
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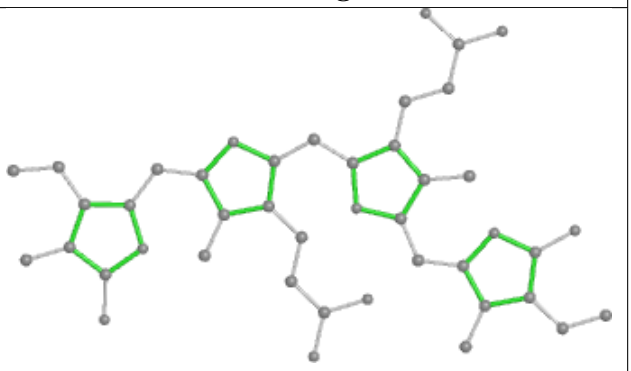
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Bond angles

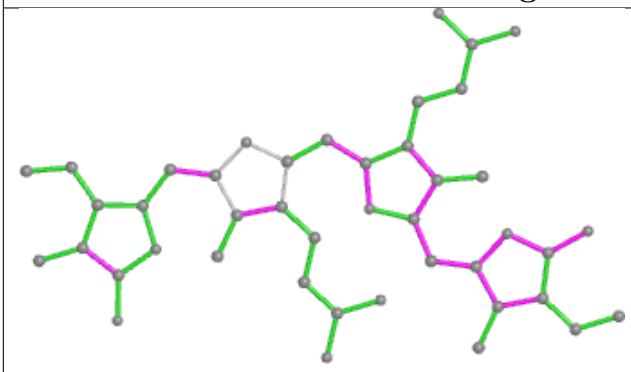


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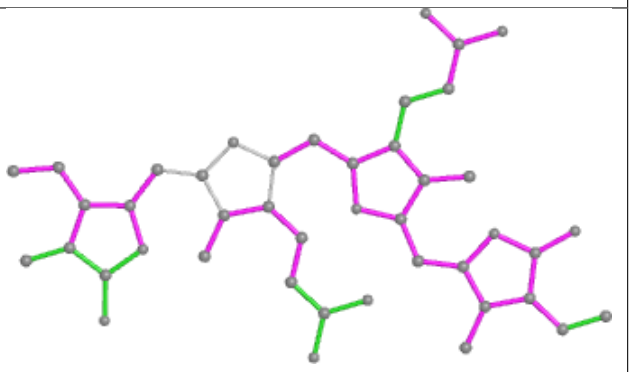


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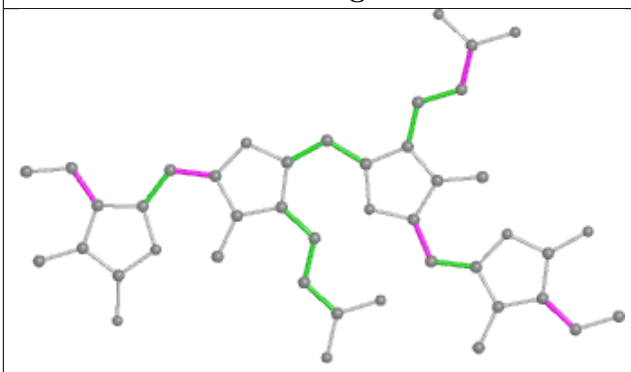
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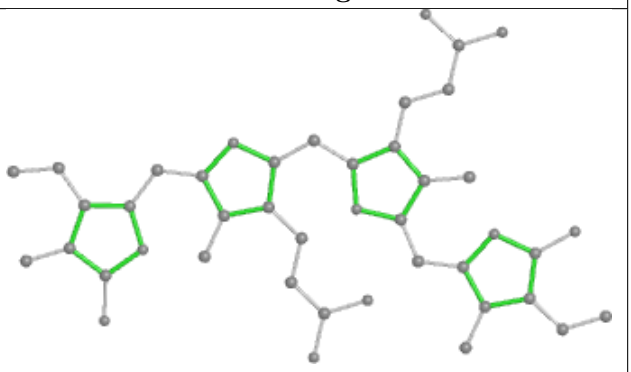
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Bond angles

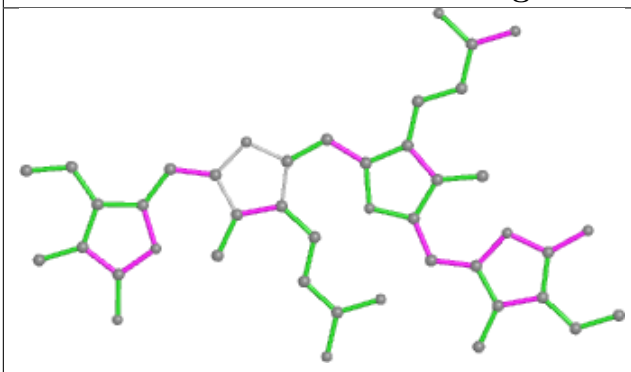


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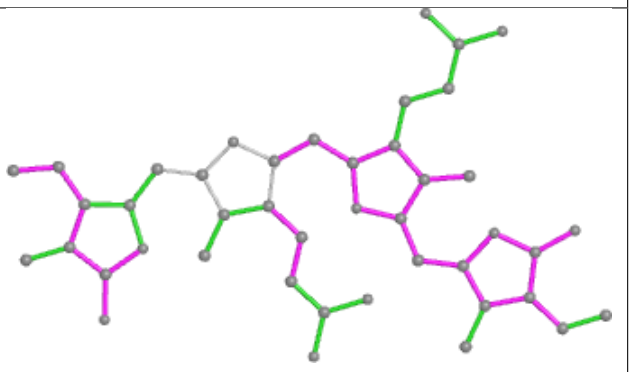


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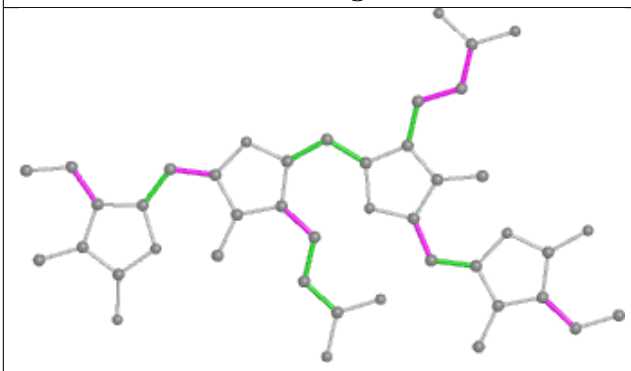
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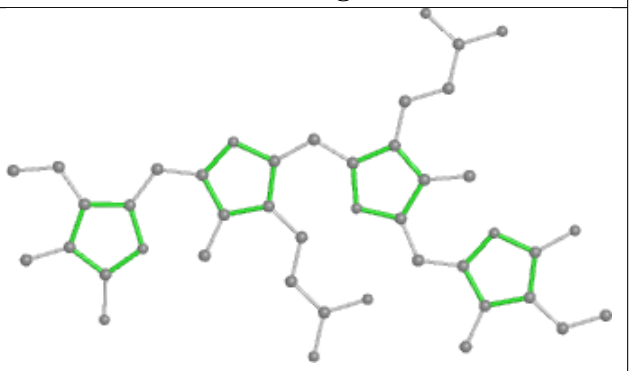
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Bond angles

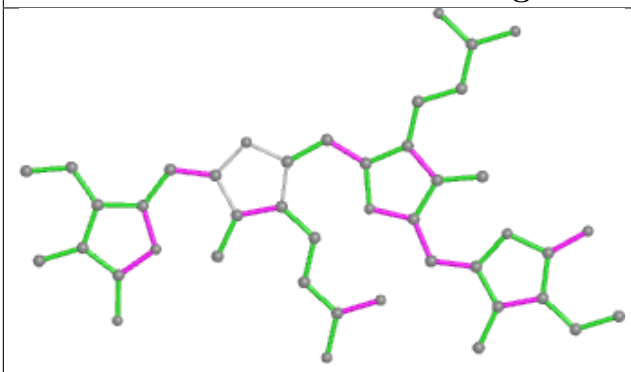


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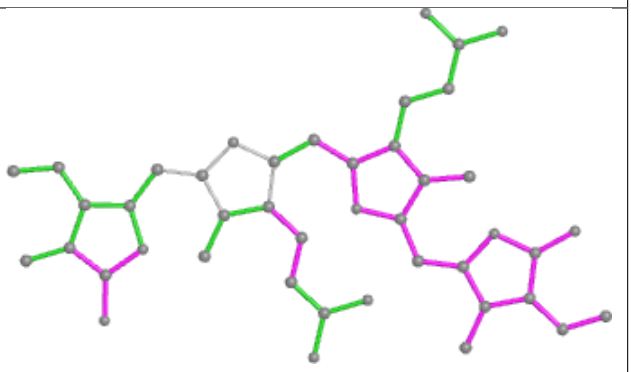


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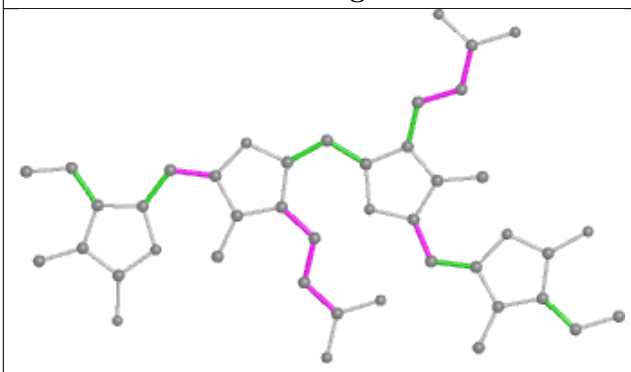
Ligand CYC X1 202



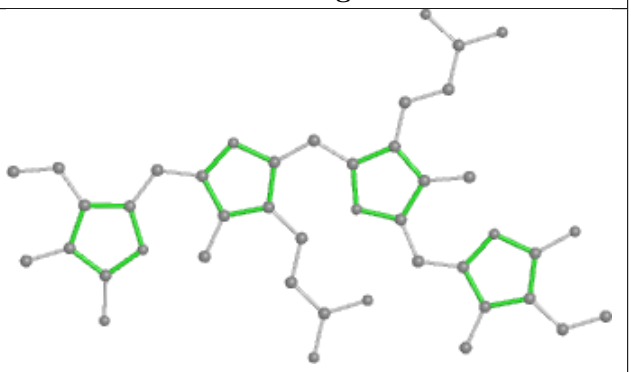
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Bond angles

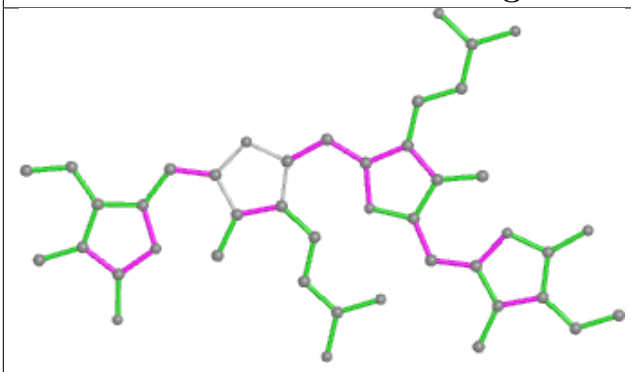


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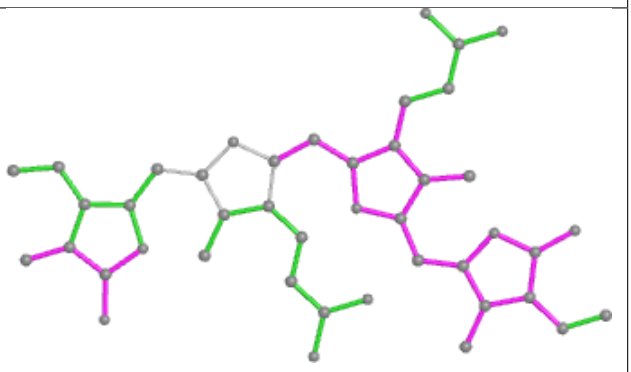


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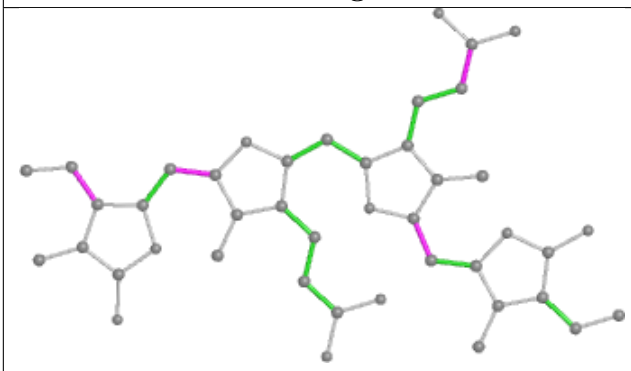
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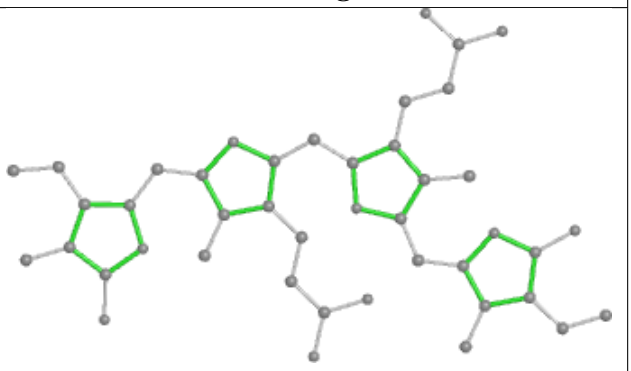
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Bond angles

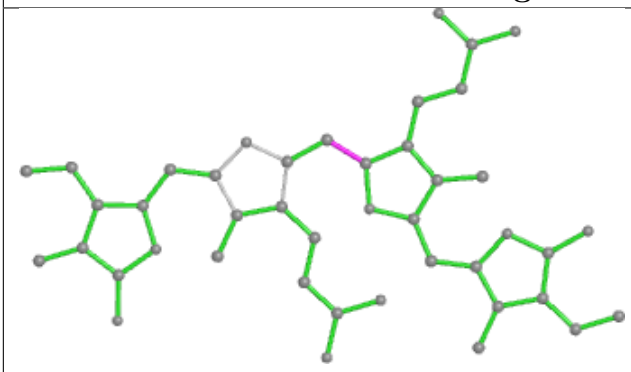


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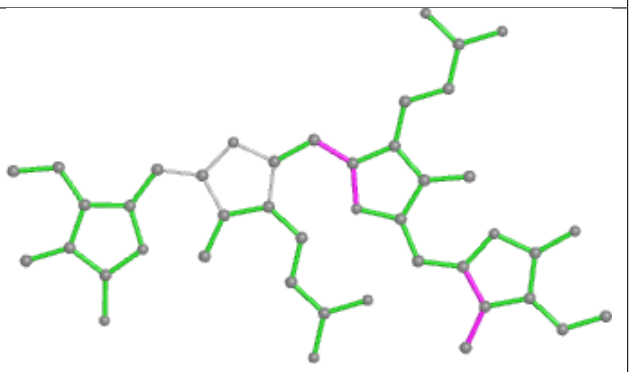


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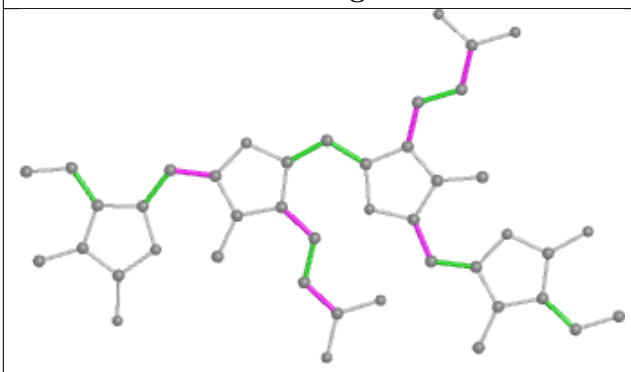
Ligand CYC T6 201



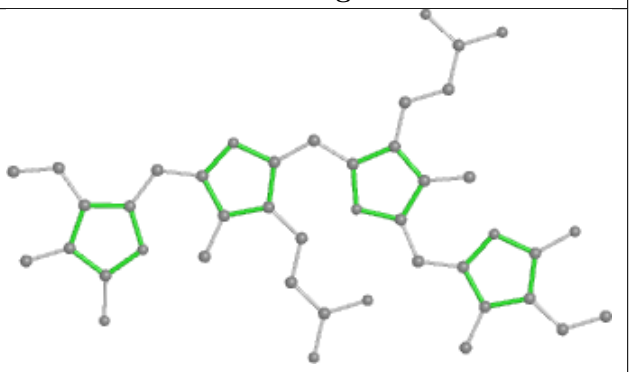
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Bond angles

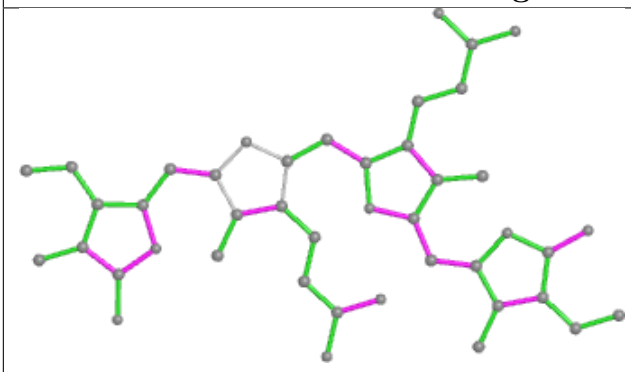


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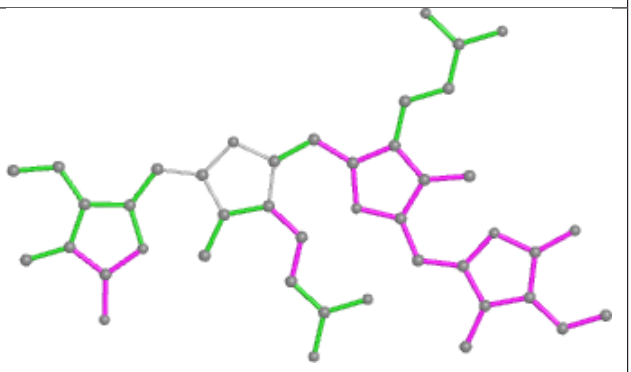


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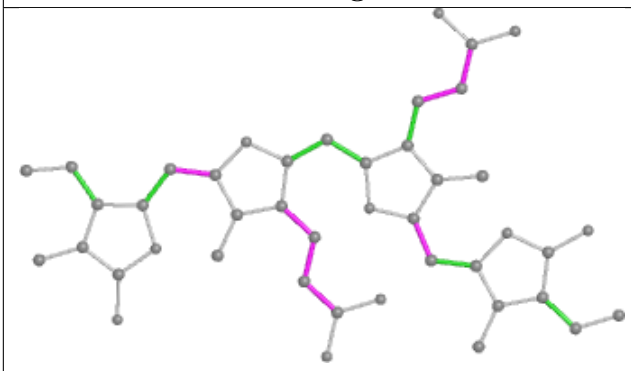
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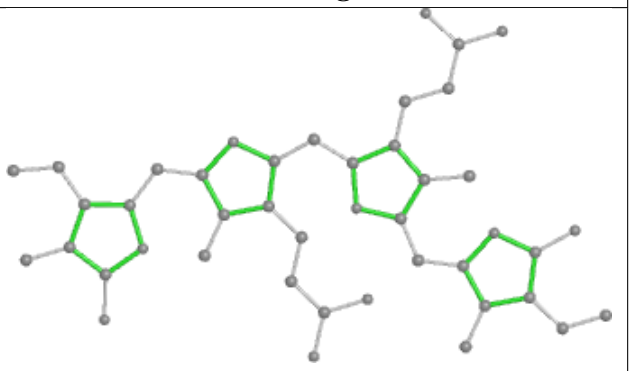
Bond lengths



Bond angles

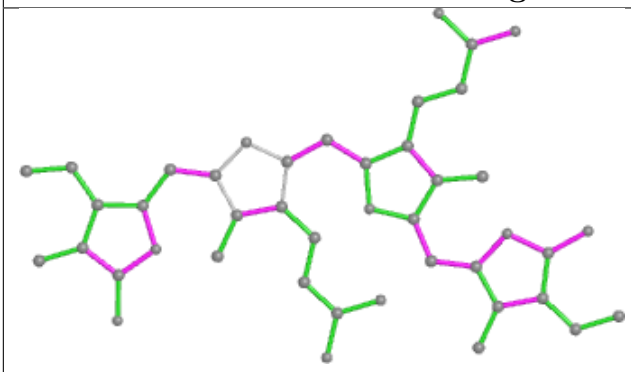


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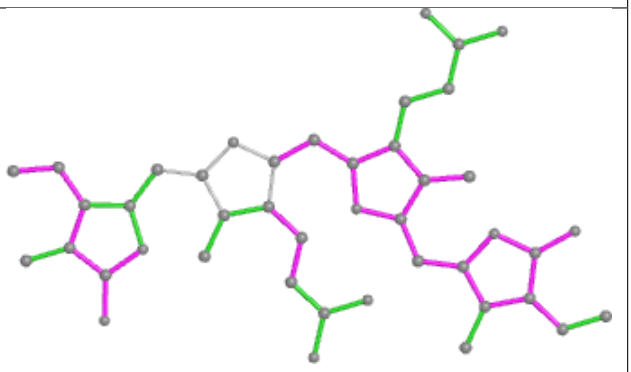


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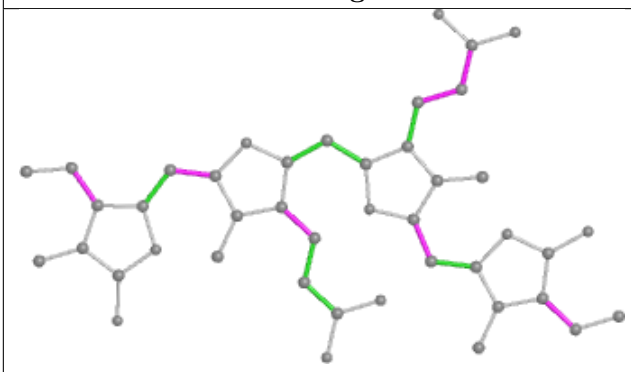
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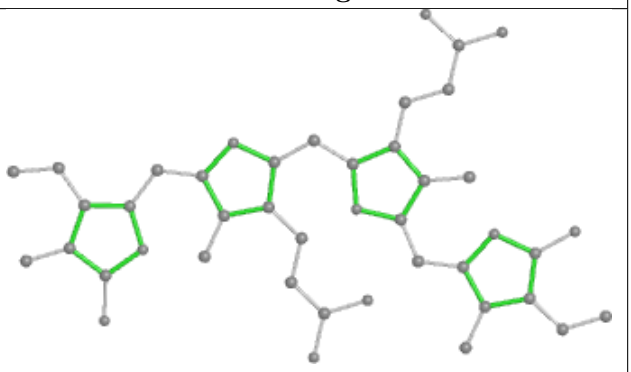
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Bond angles

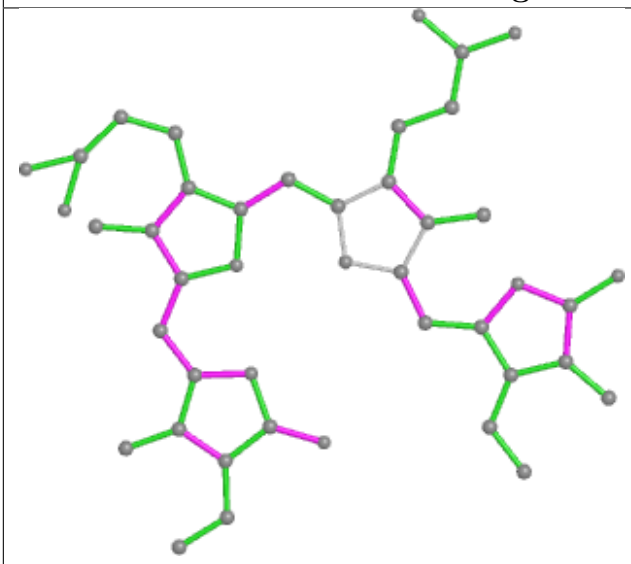


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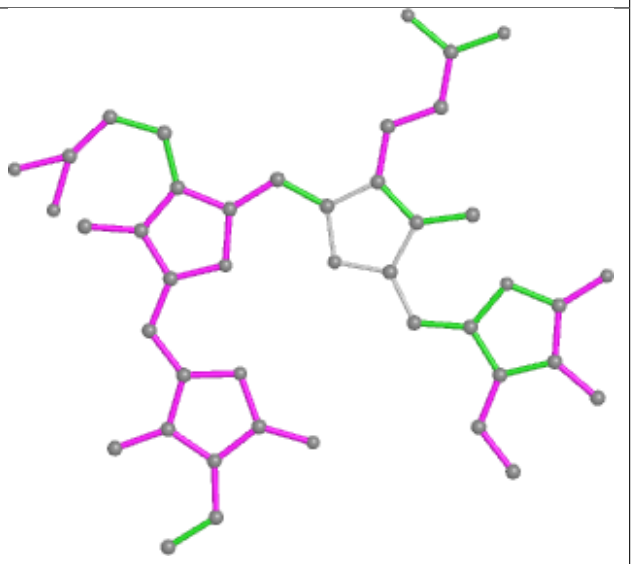


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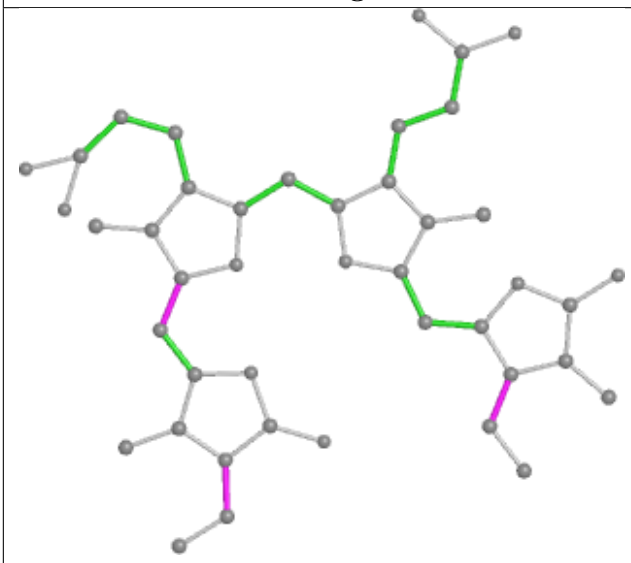
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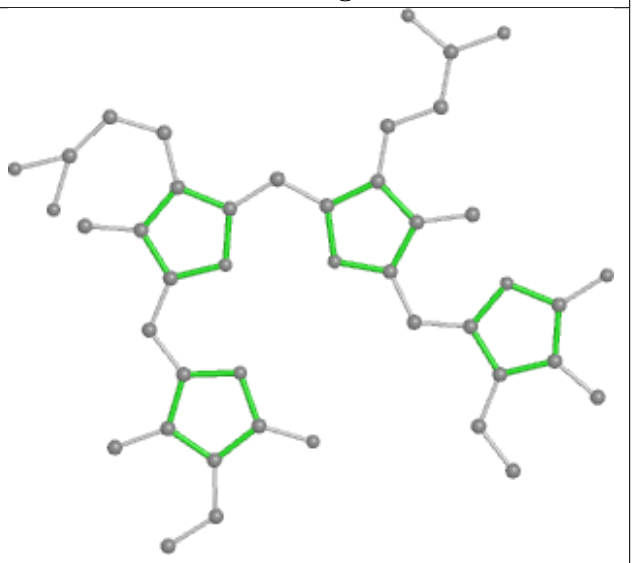
Bond lengths



Bond angles

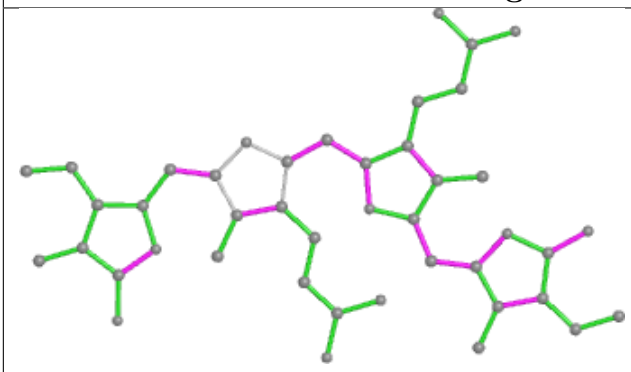


Torsions

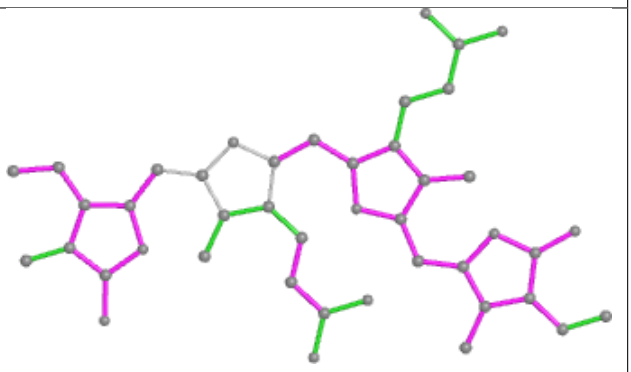


Rings

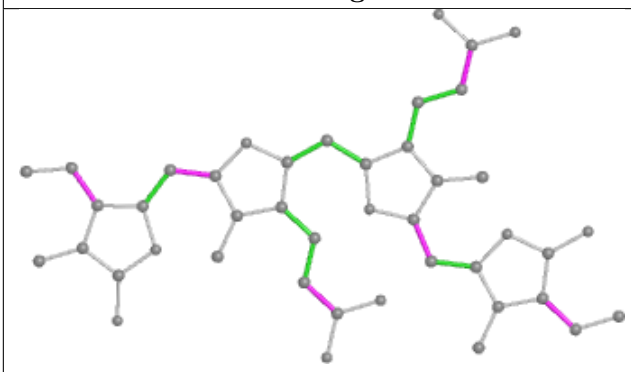
Ligand CYC F7 1001



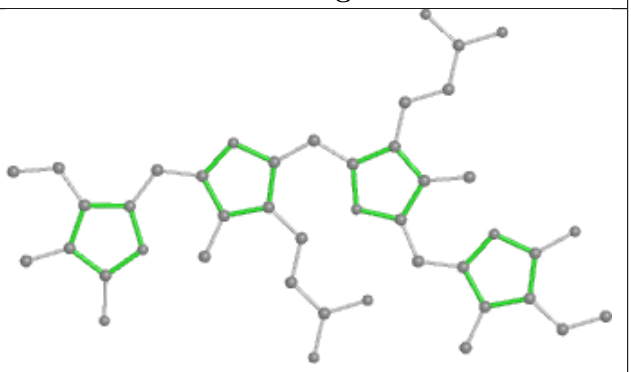
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Bond angles

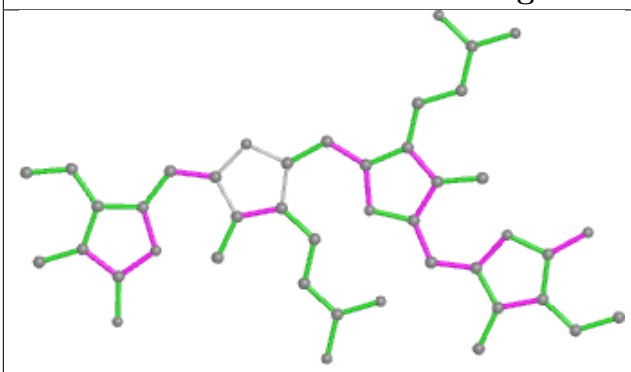


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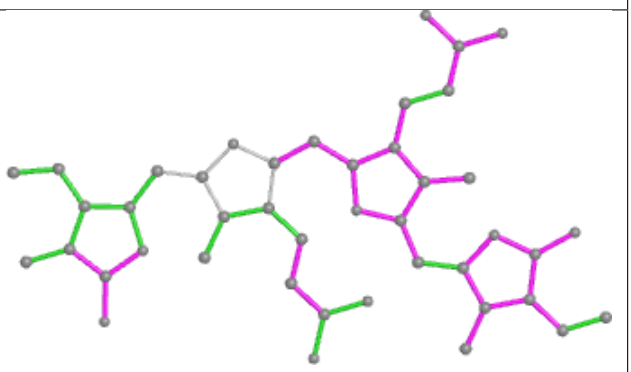


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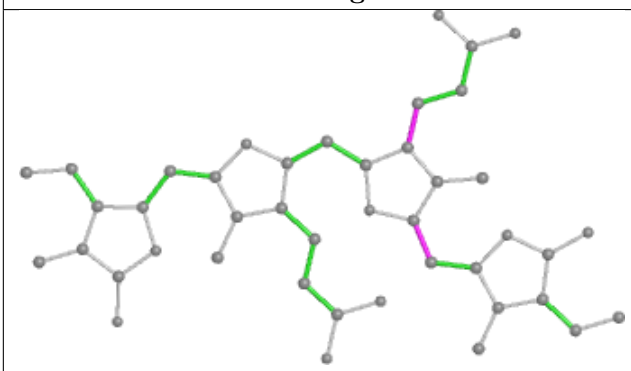
Ligand CYC 13 903



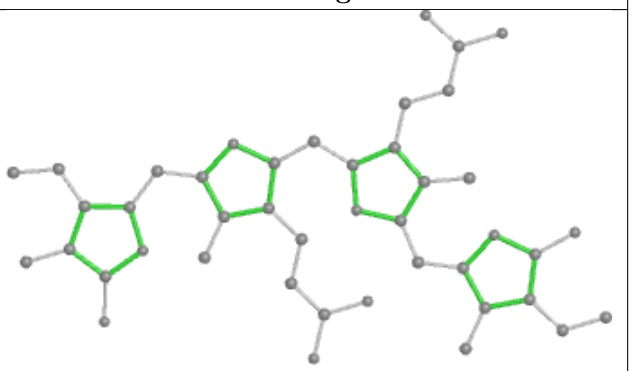
Bond lengths



Bond angles

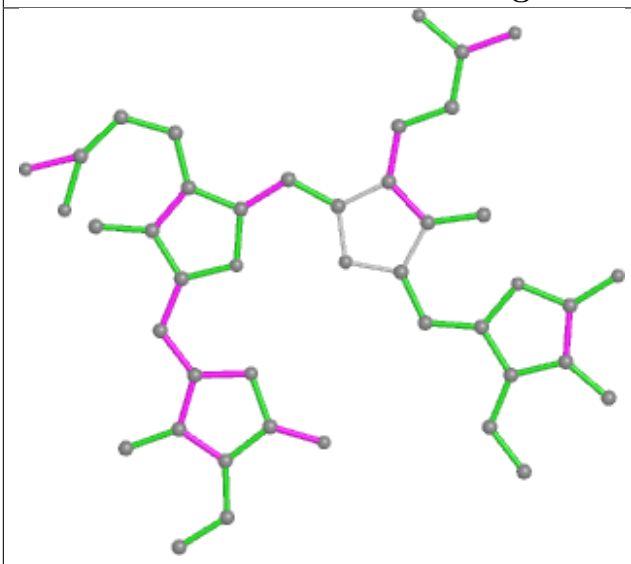


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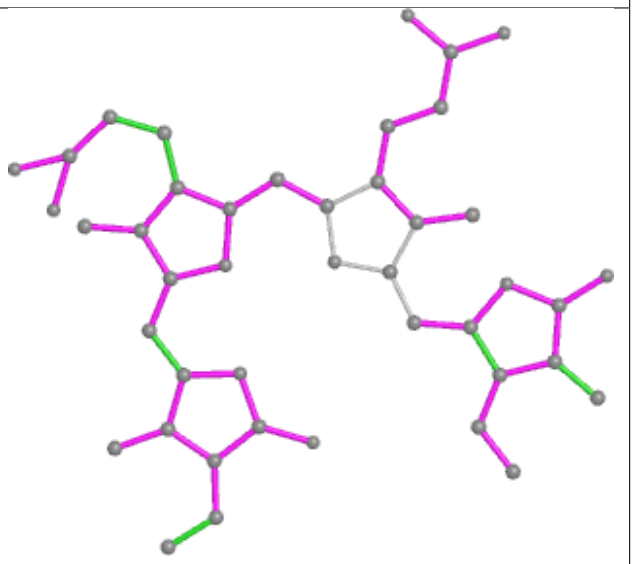


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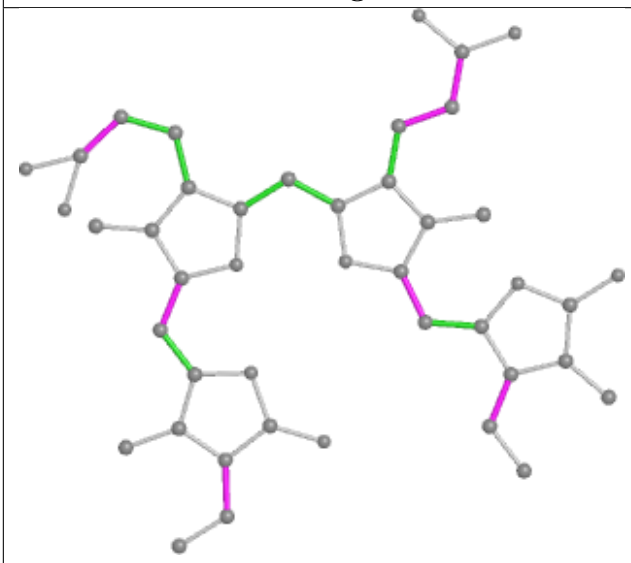
Ligand CYC U5 201



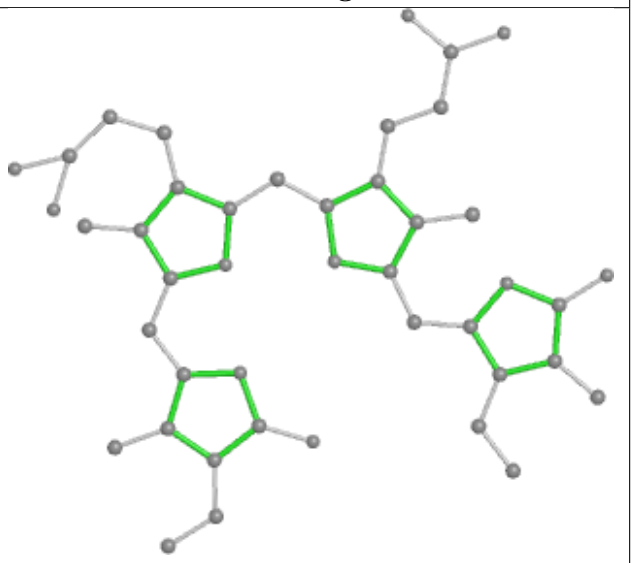
Bond lengths



Bond angles

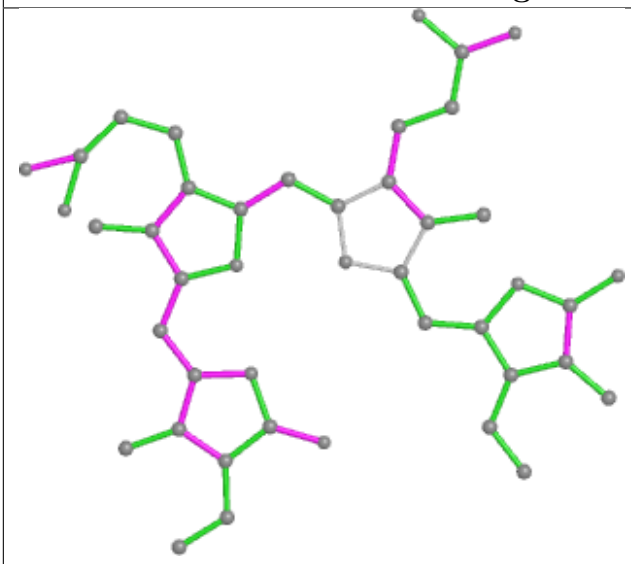


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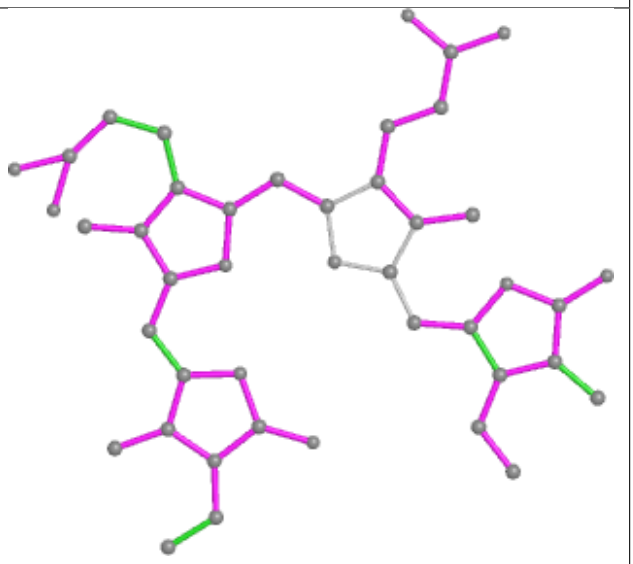


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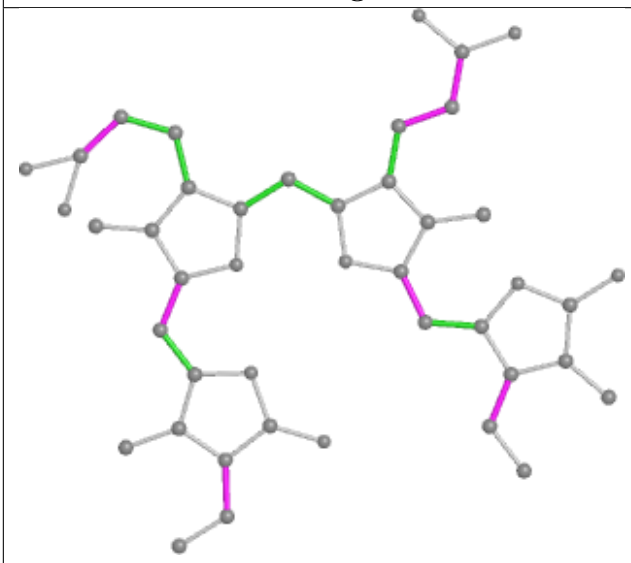
Ligand CYC C1 202



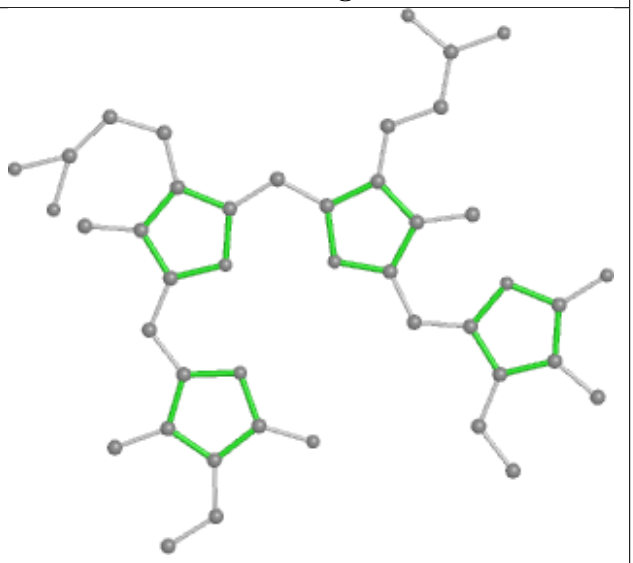
Bond lengths



Bond angles

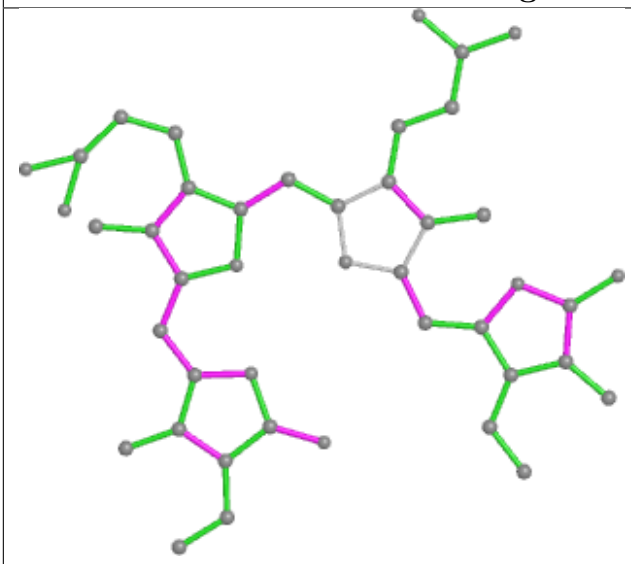


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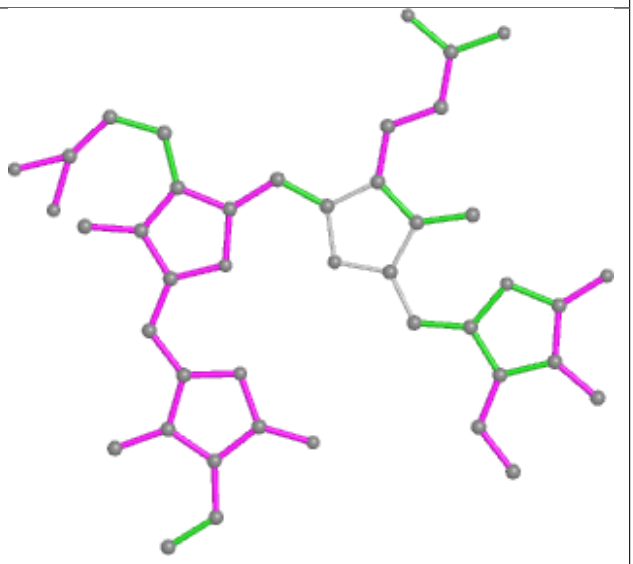


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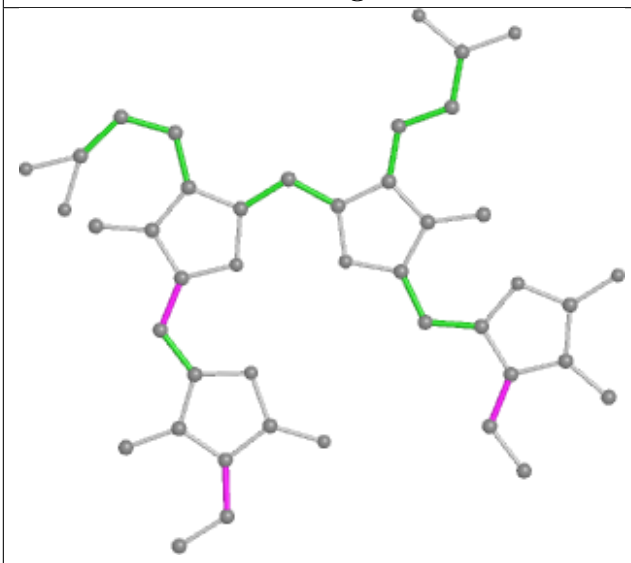
Ligand CYC I2 201



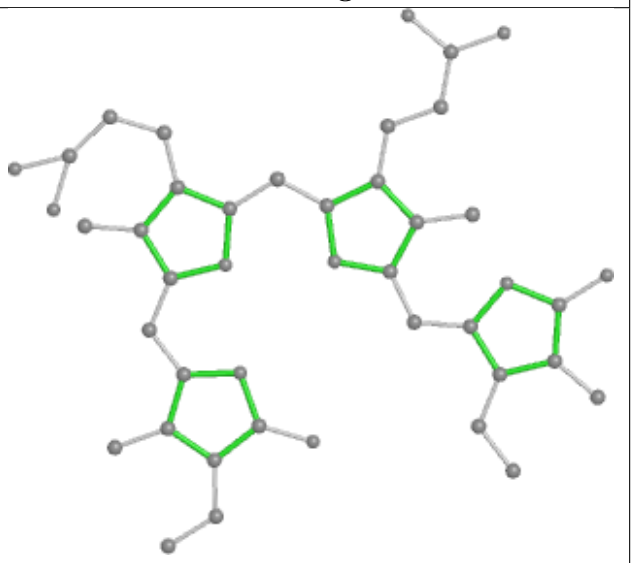
Bond lengths



Bond angles

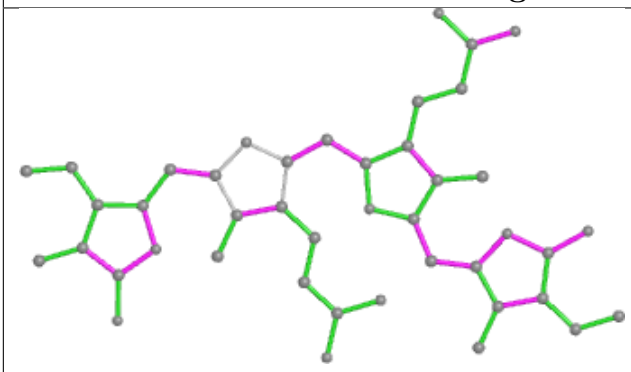


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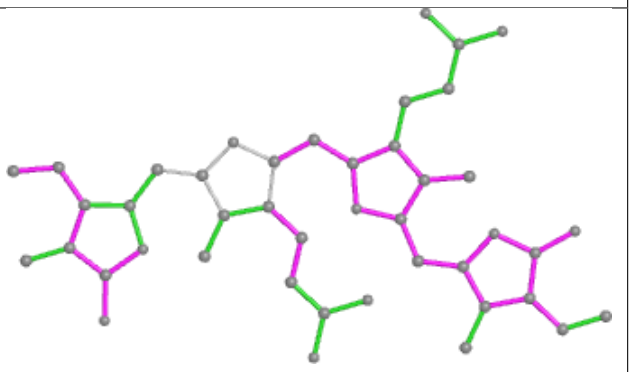


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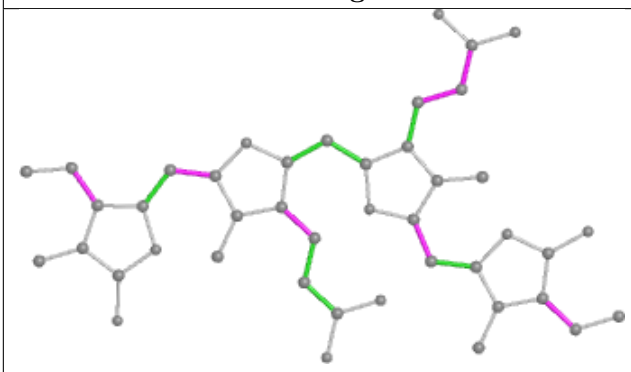
Ligand CYC M4 201



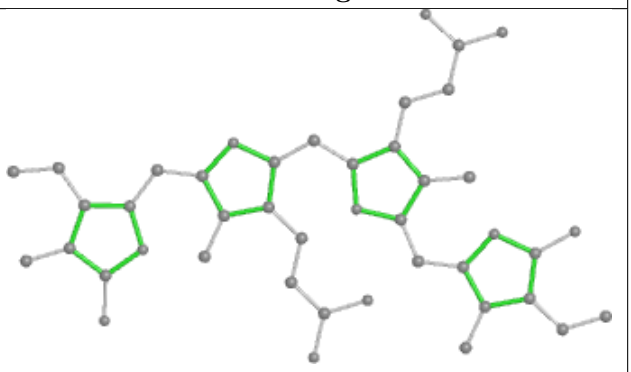
Bond lengths



Bond angles

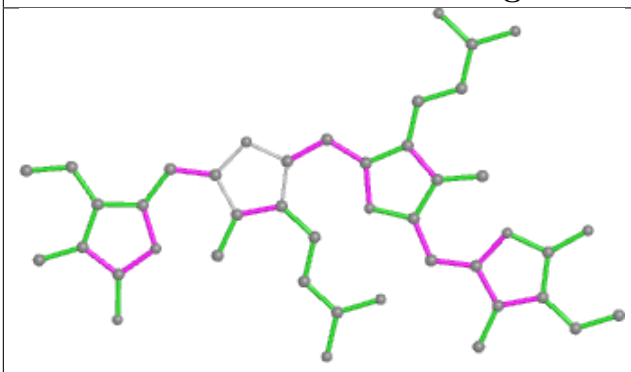


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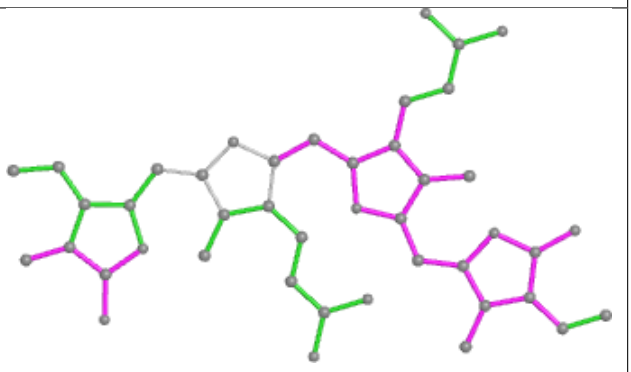


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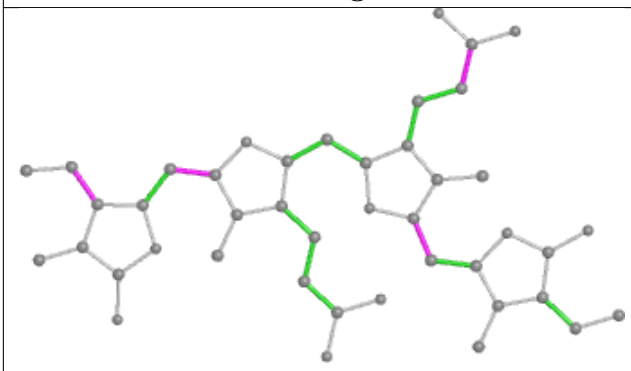
Ligand CYC X3 1001



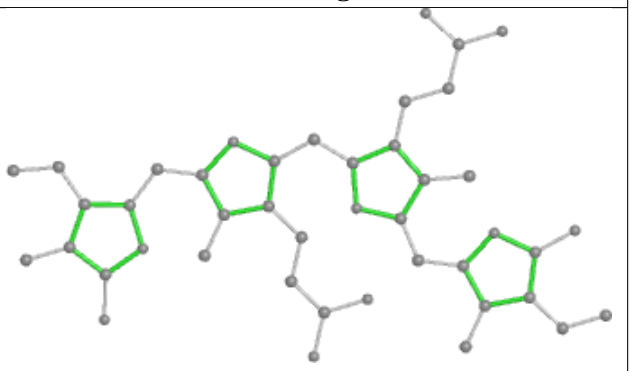
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Bond angles

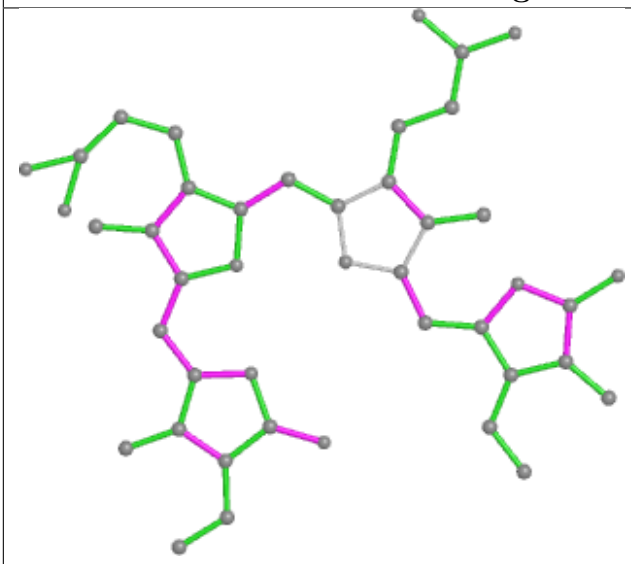


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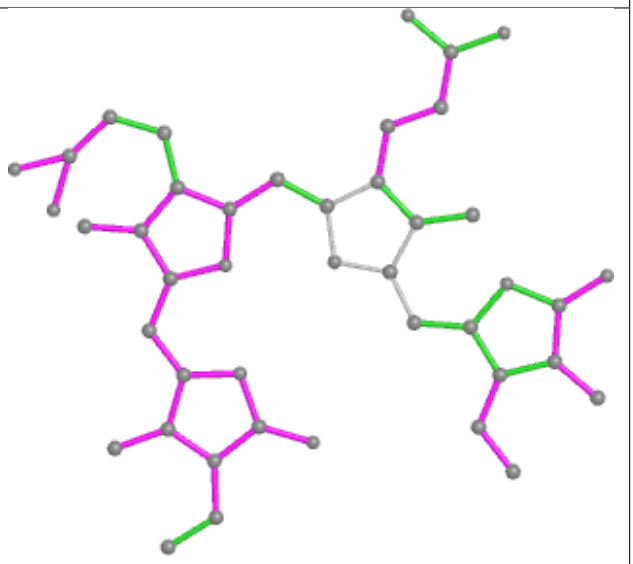


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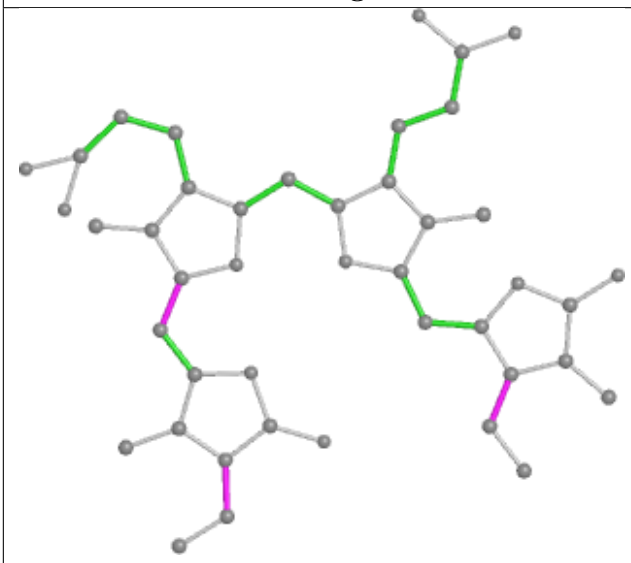
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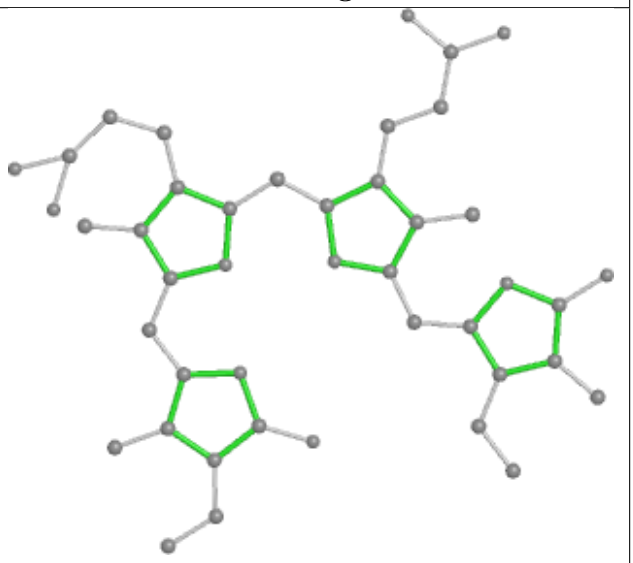
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Bond angles

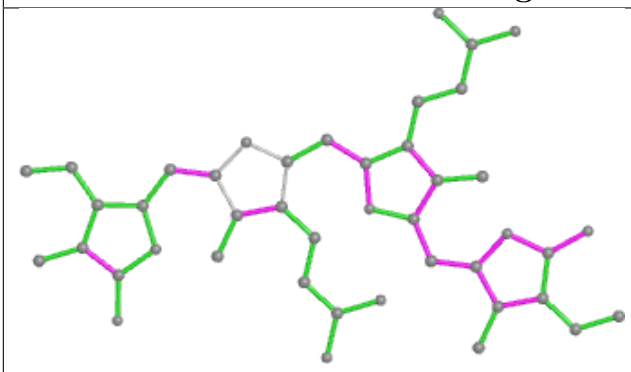


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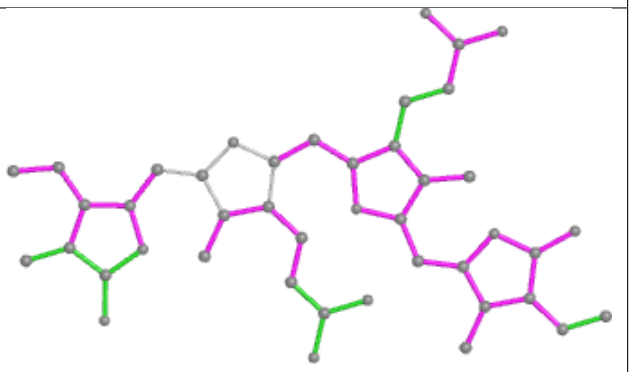


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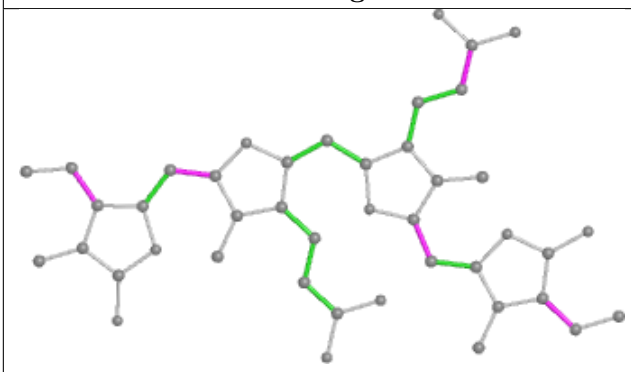
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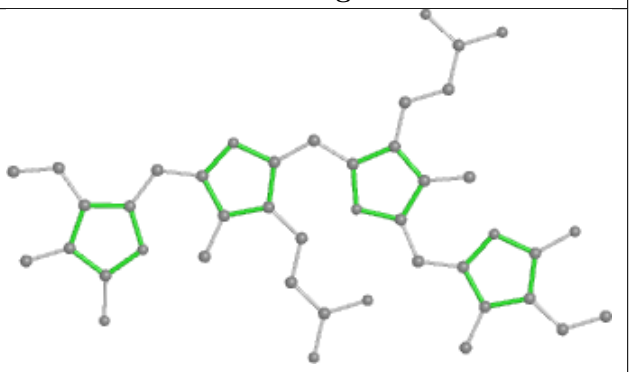
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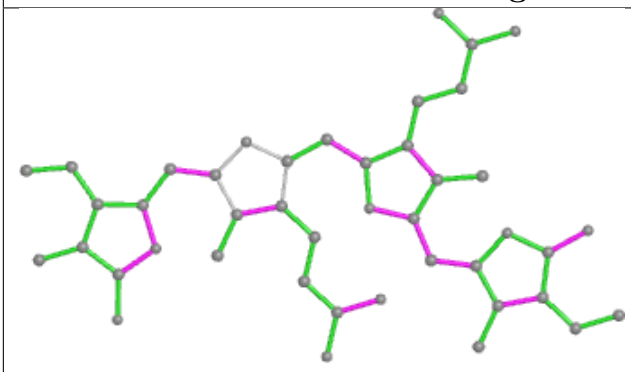


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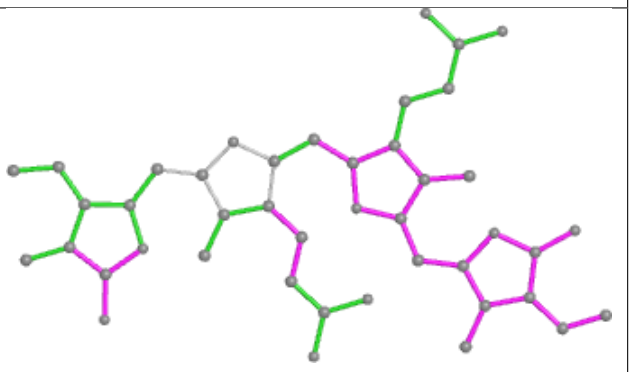


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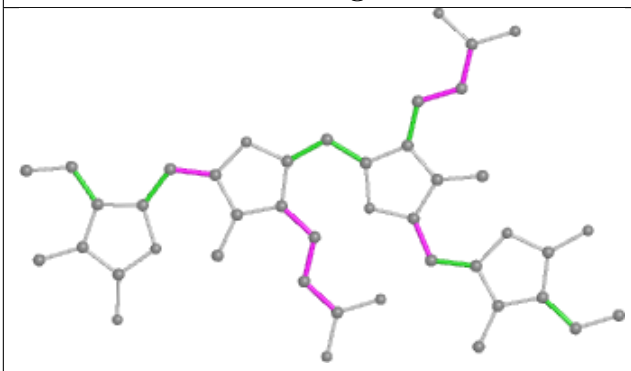
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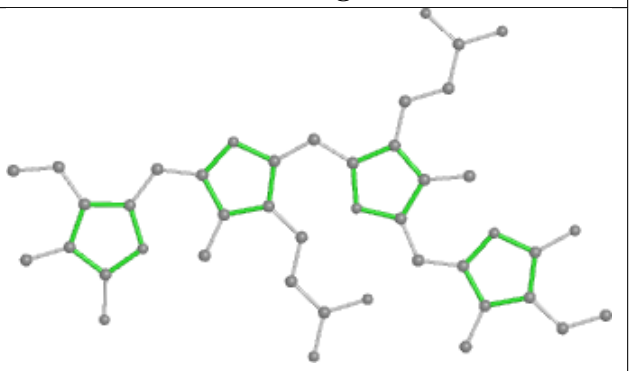
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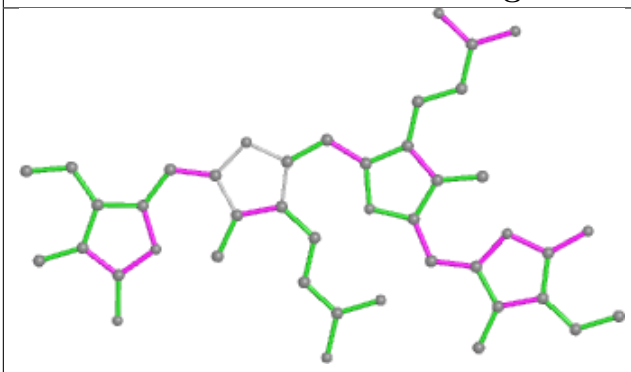


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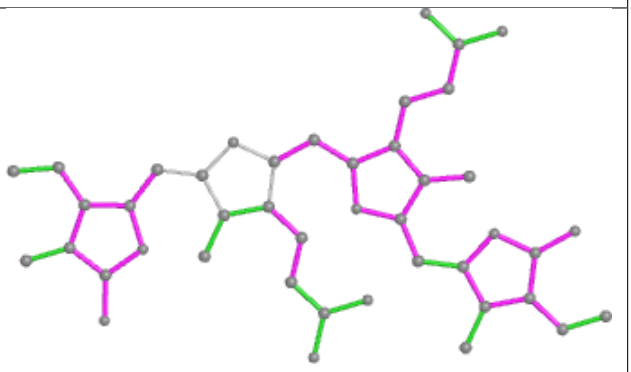


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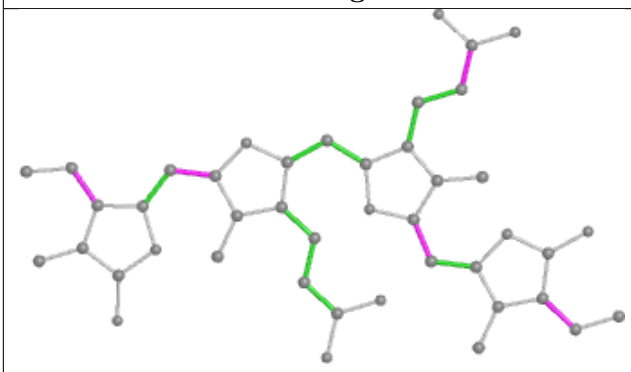
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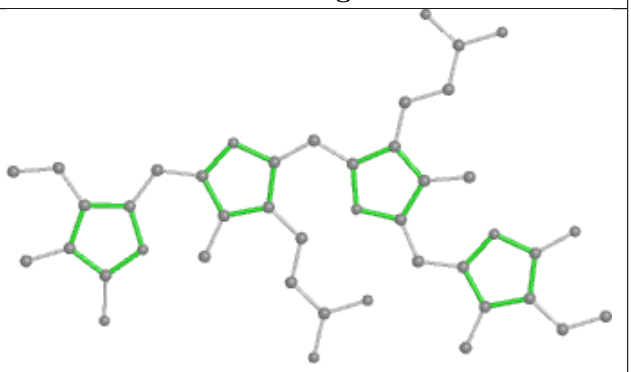
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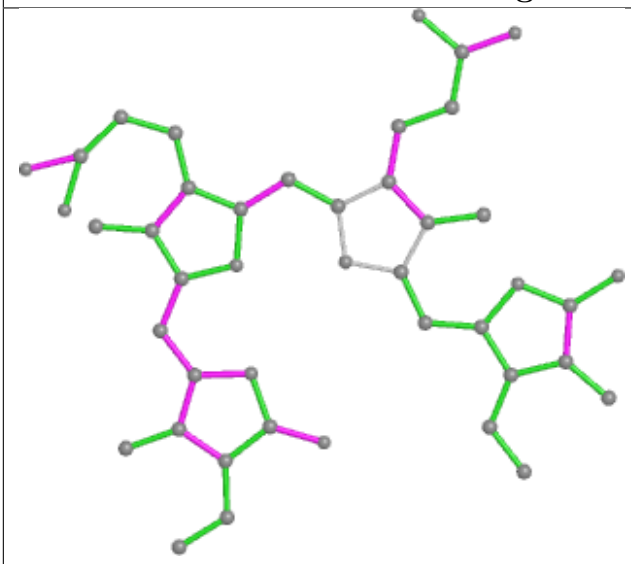


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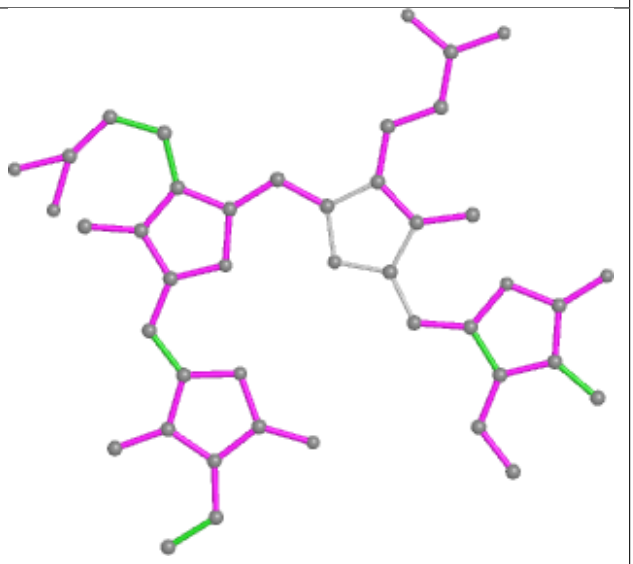


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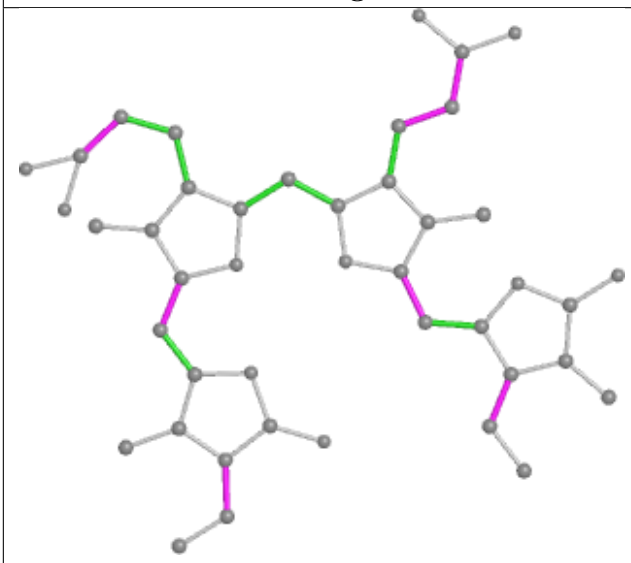
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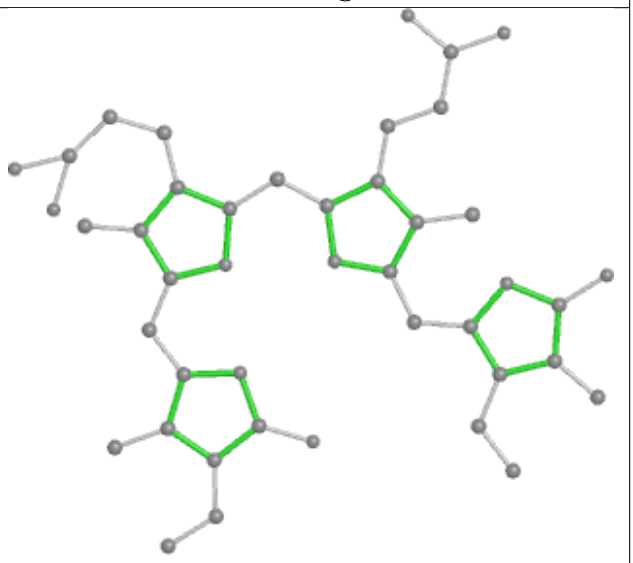
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Bond angles

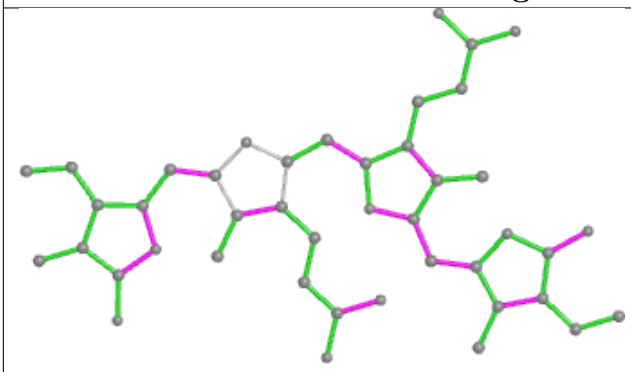


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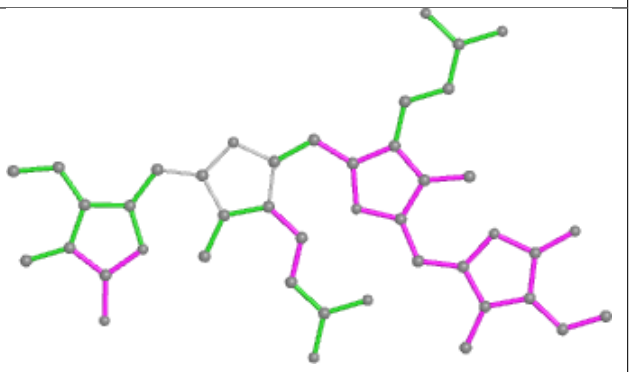


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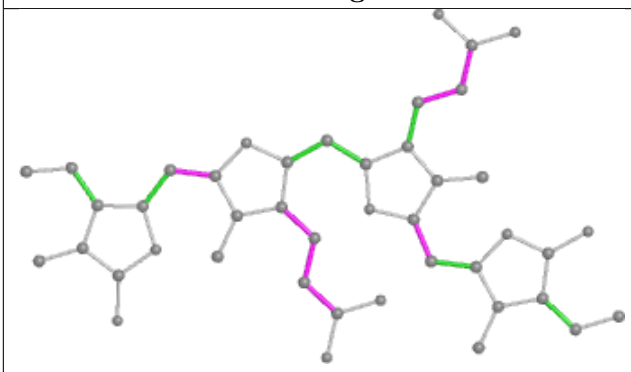
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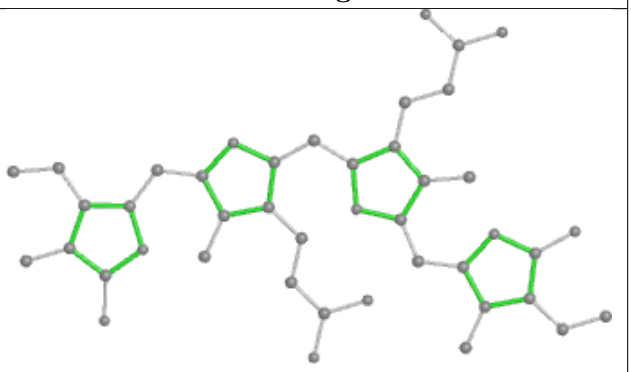
Bond lengths



Bond angles

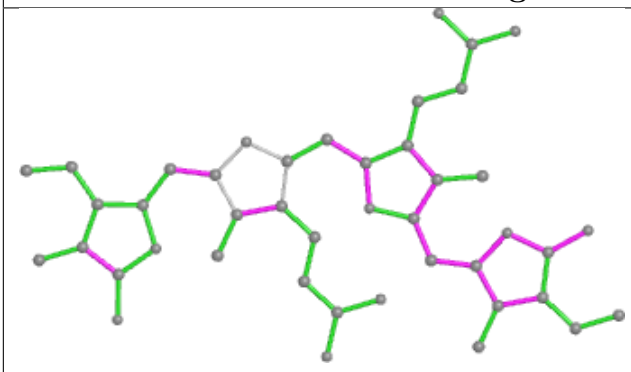


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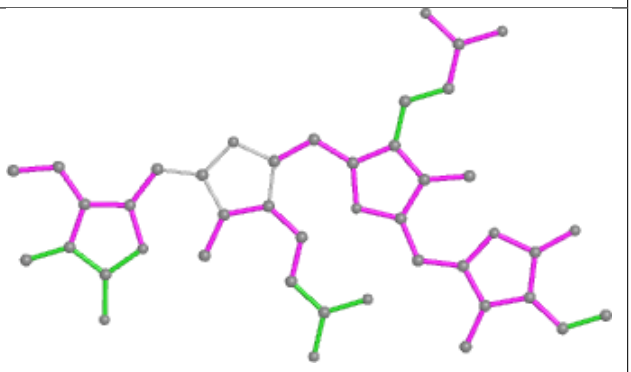


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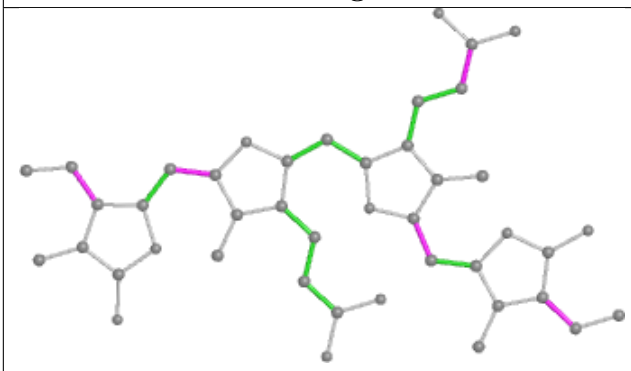
Ligand CYC M1 201



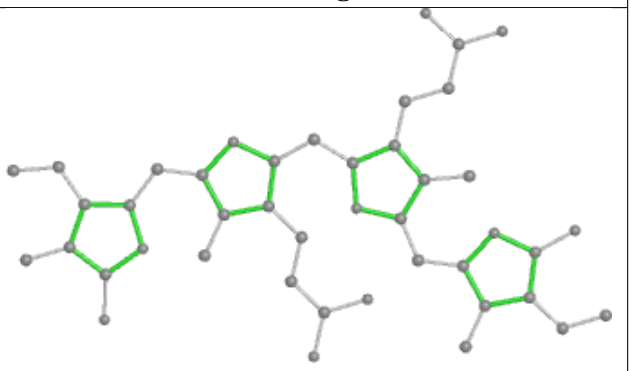
Bond lengths



Bond angles

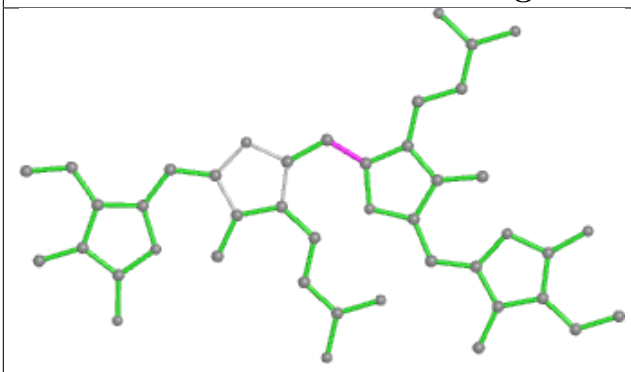


Torsions

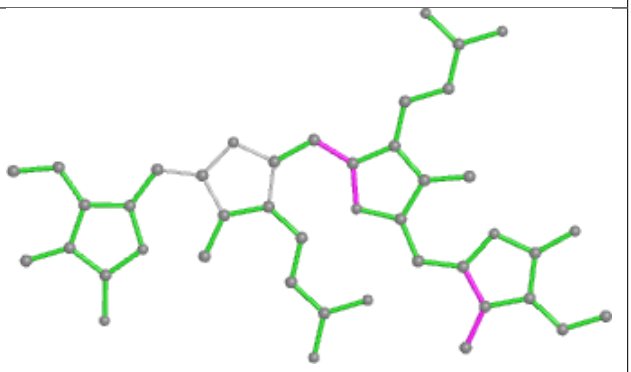


Rings

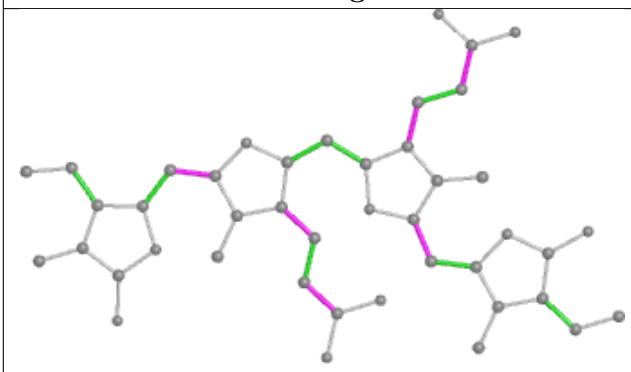
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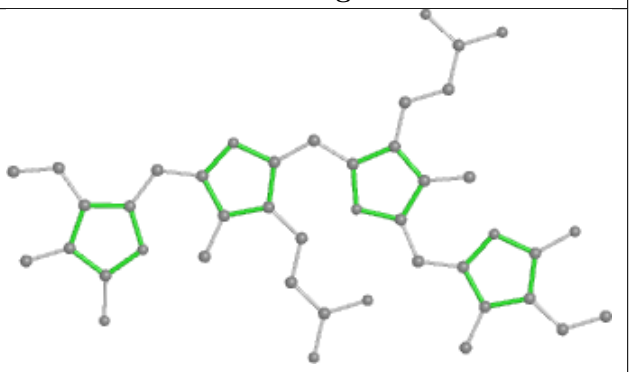
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Bond angles

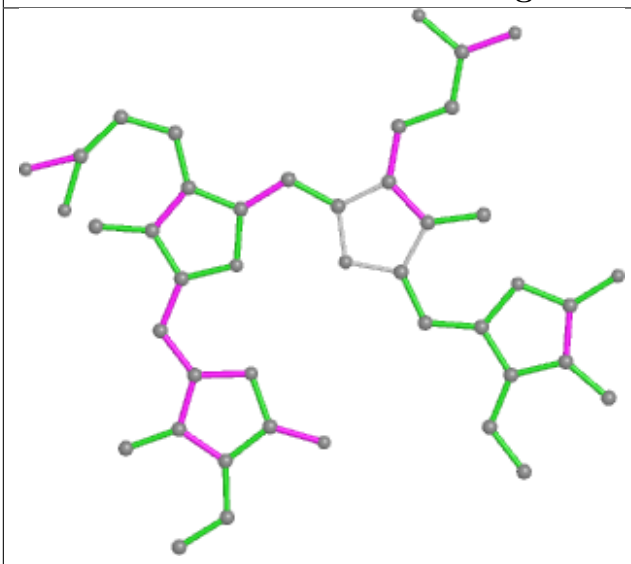


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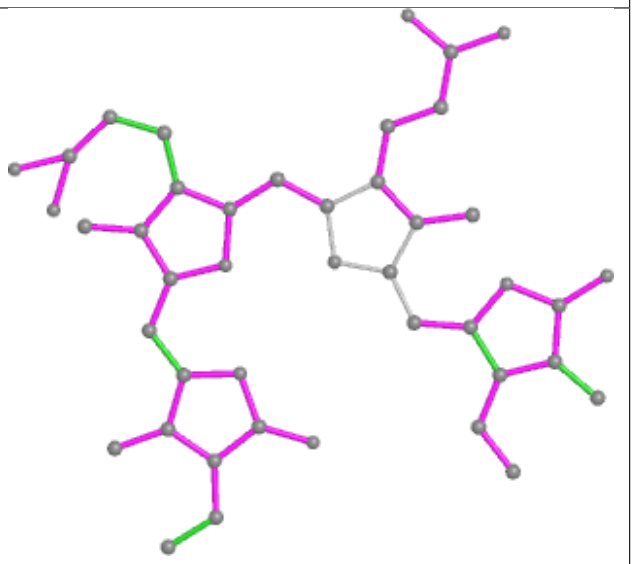


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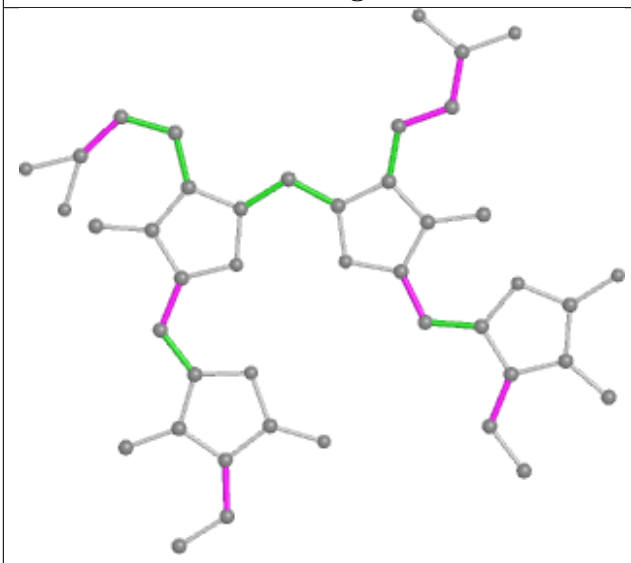
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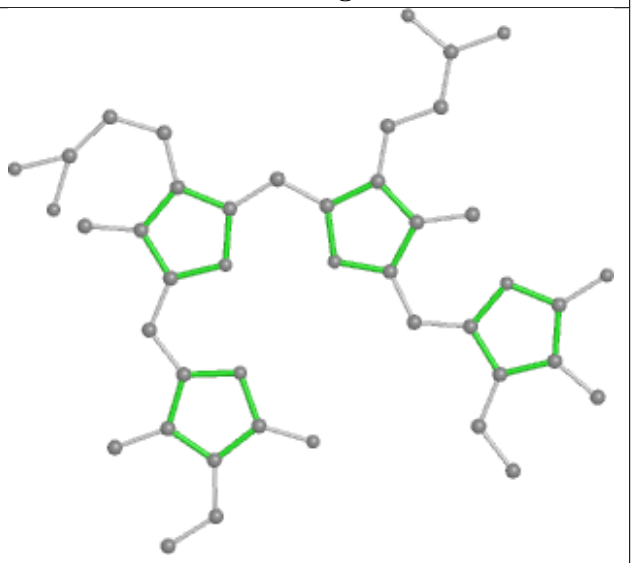
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Bond angles

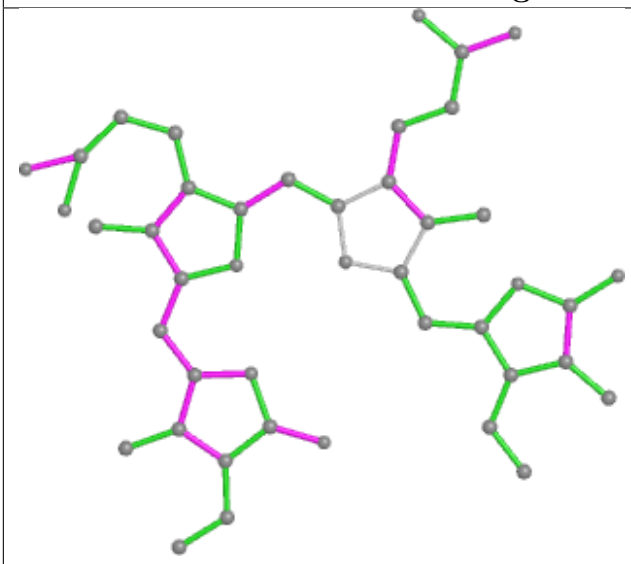


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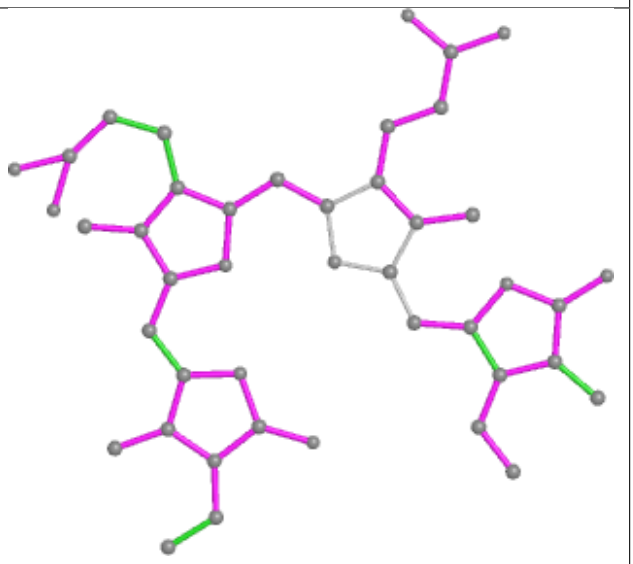


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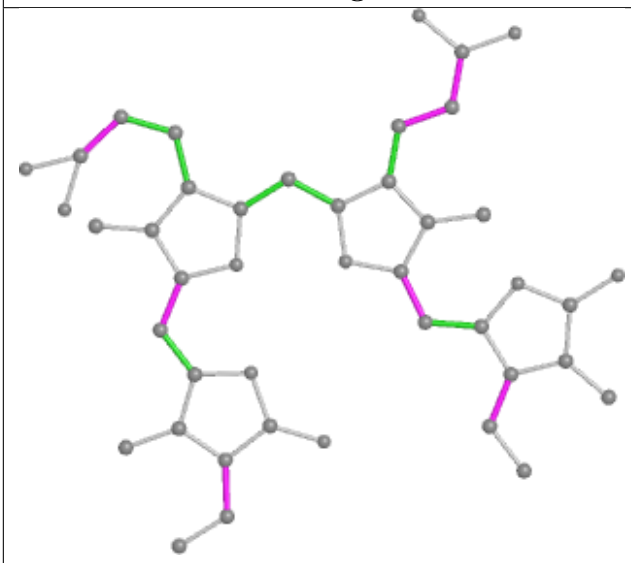
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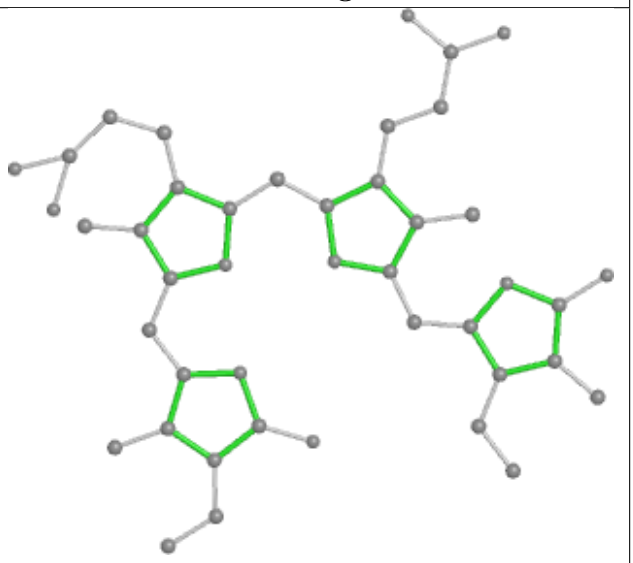
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Bond angles

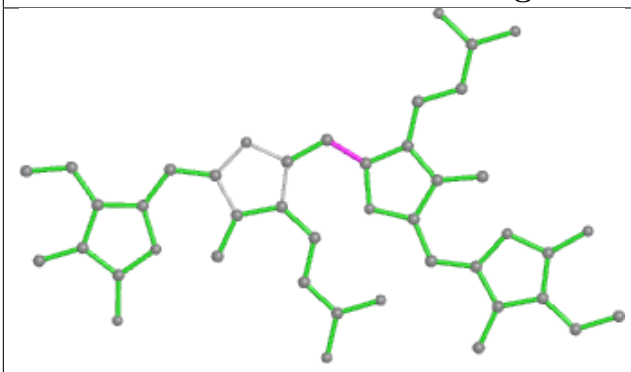


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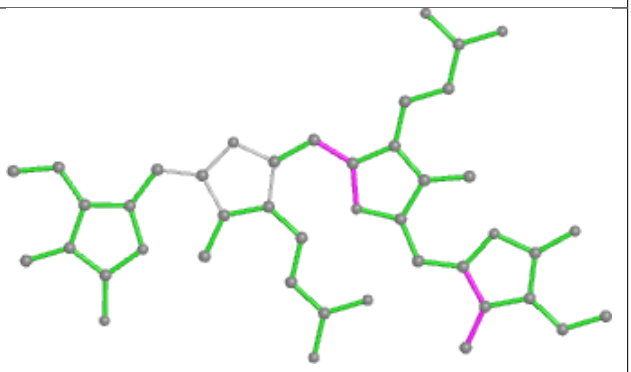


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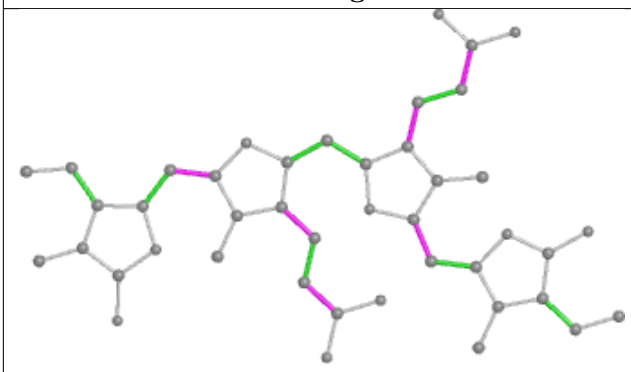
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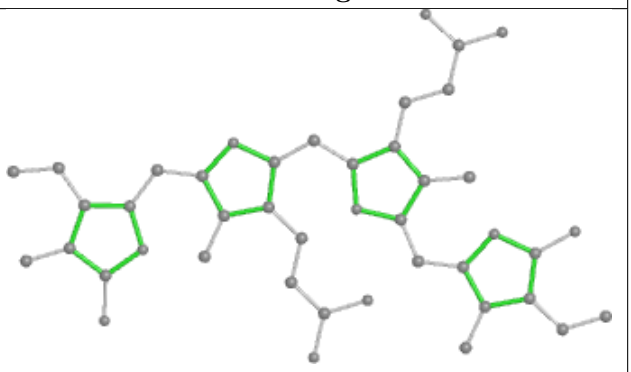
Bond lengths



Bond angles

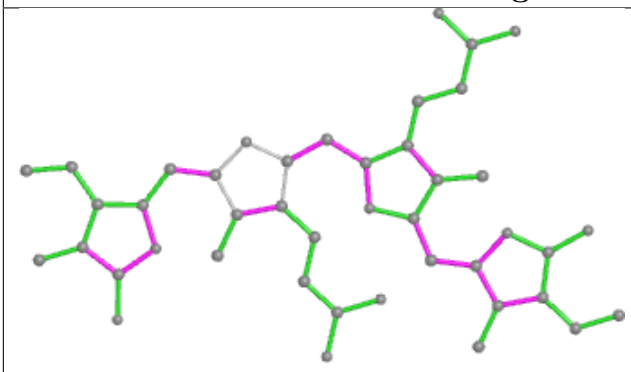


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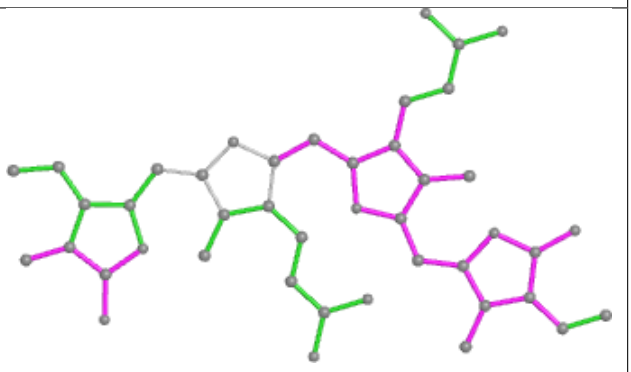


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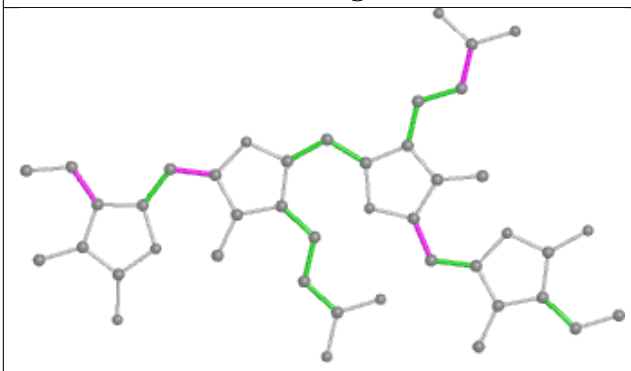
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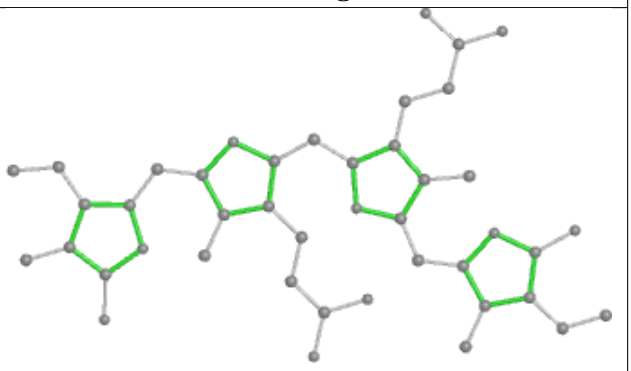
Bond lengths



Bond angles

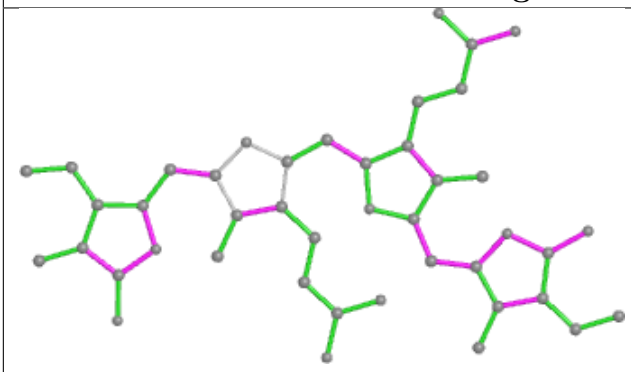


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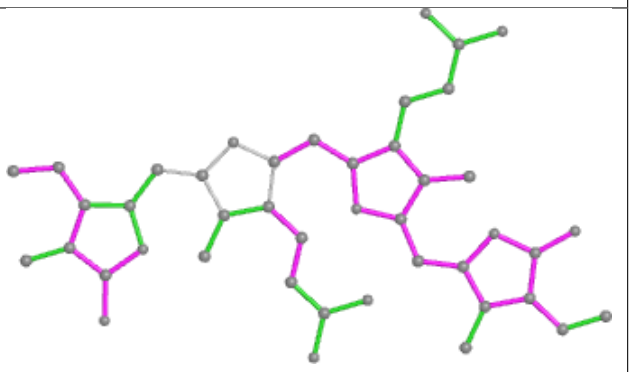


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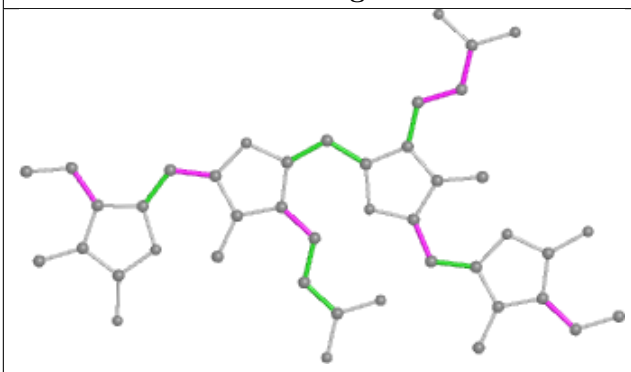
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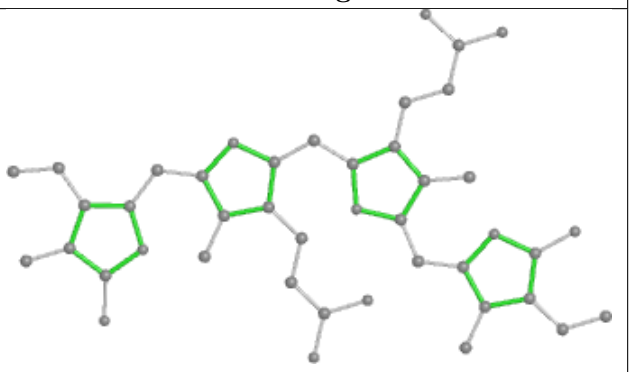
Bond lengths



Bond angles

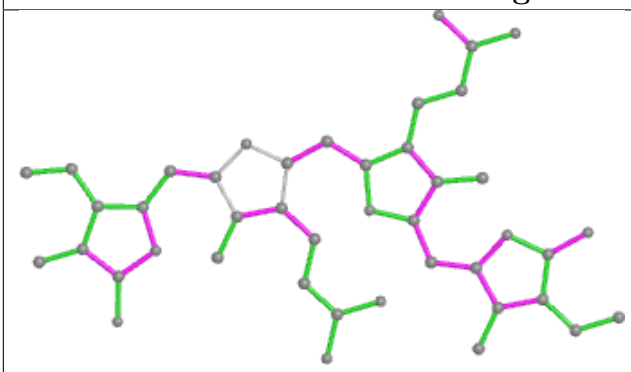


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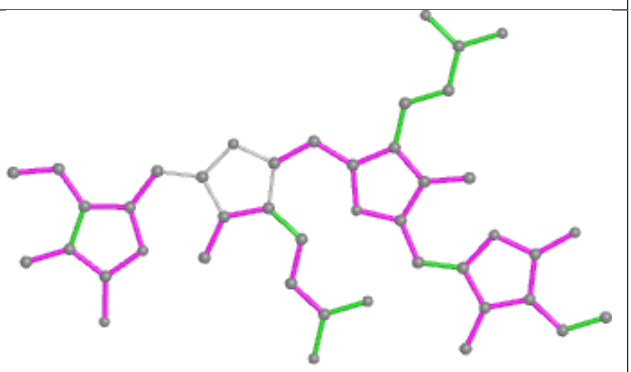


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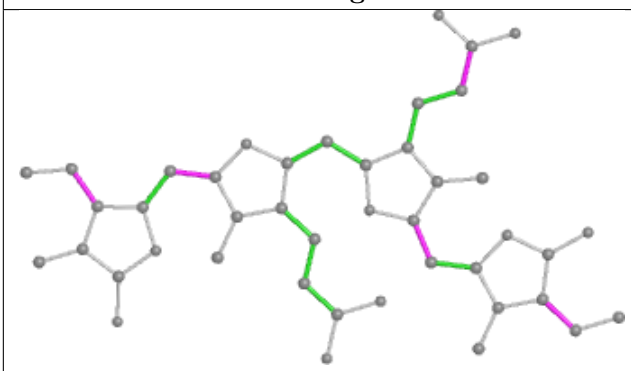
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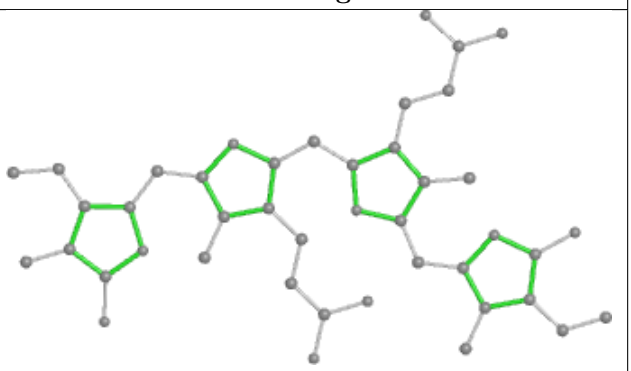
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Bond angles

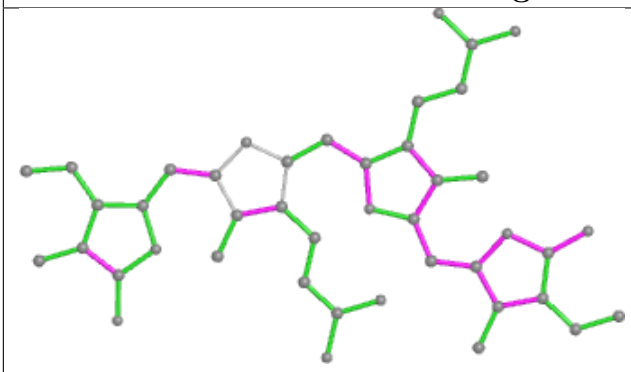


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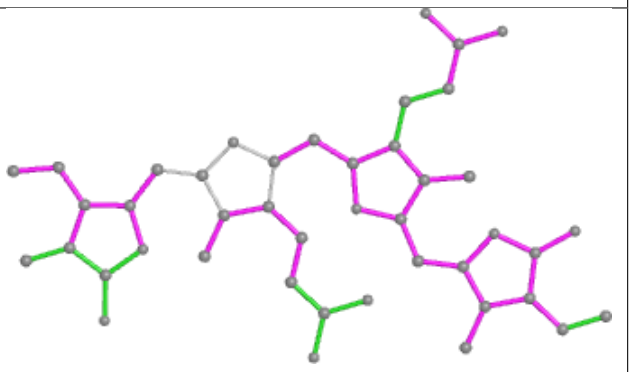


Rings

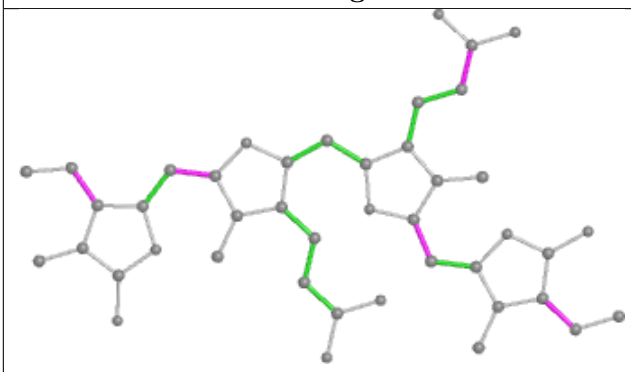
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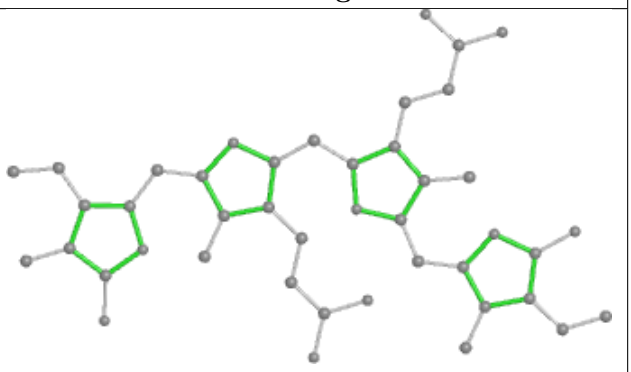
Bond lengths



Bond angles

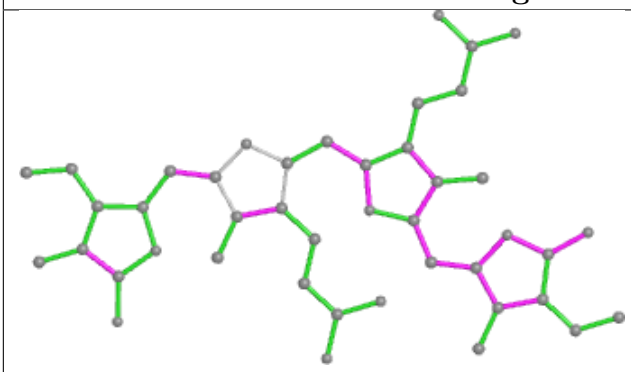


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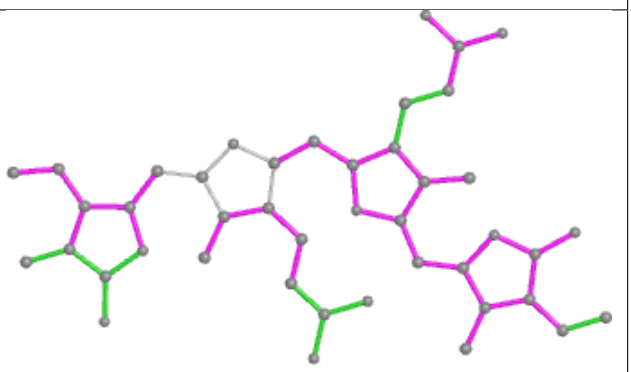


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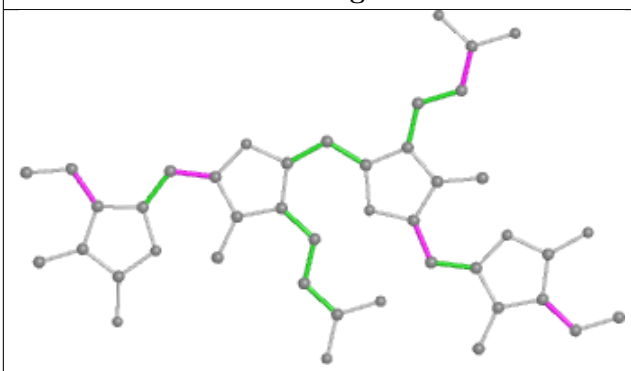
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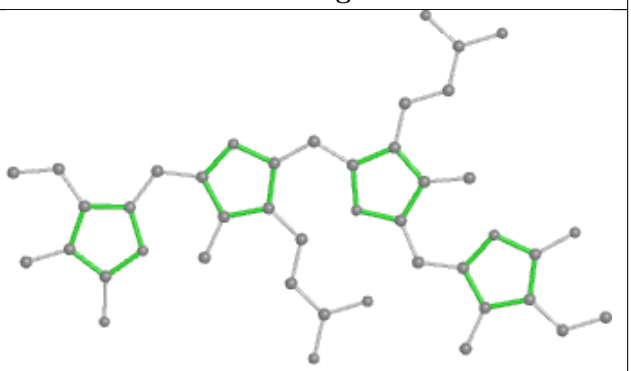
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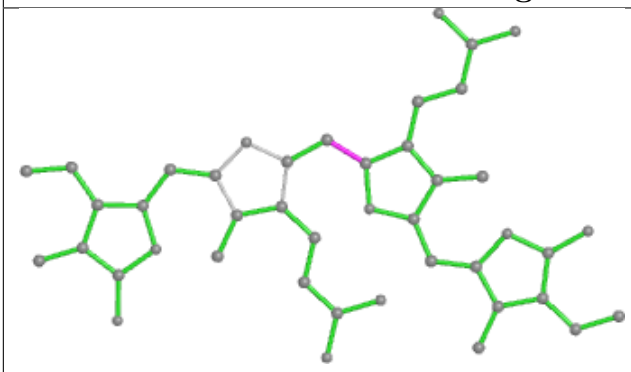


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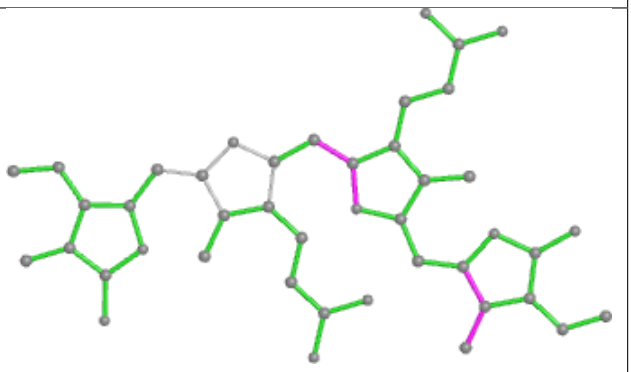


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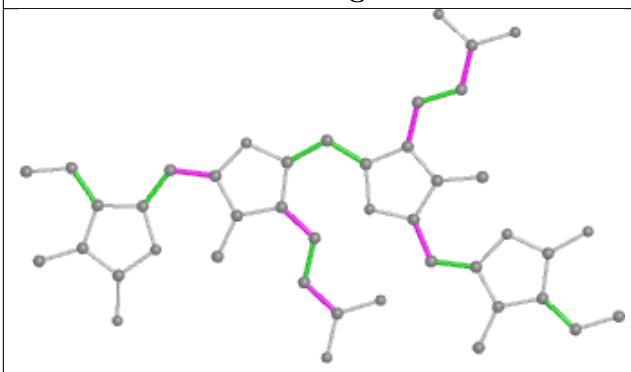
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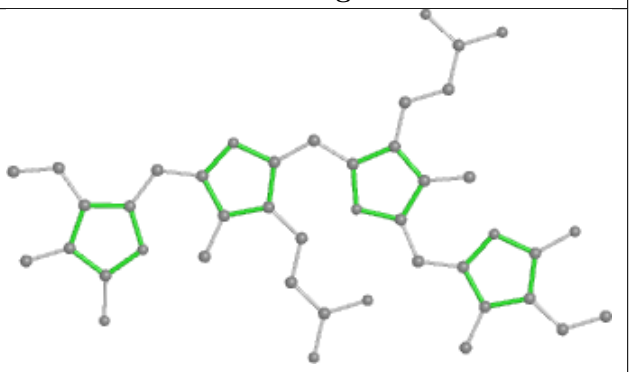
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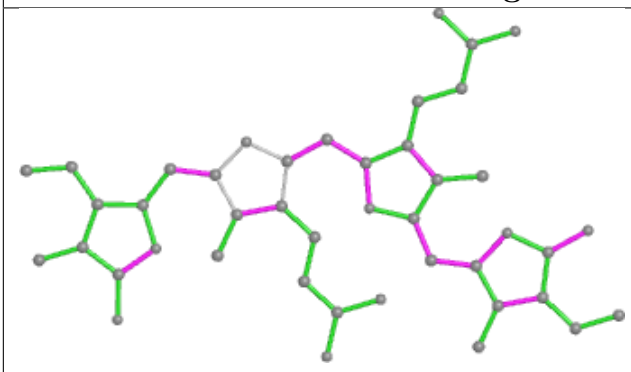


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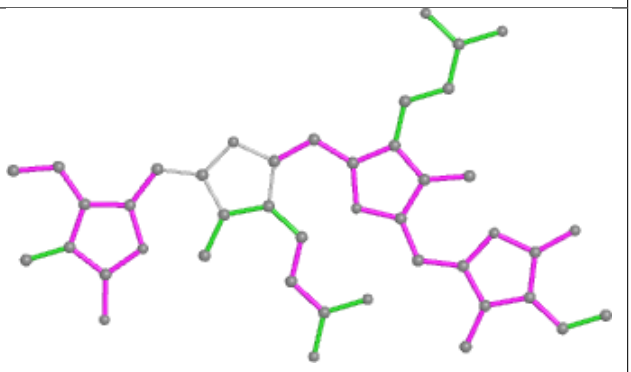


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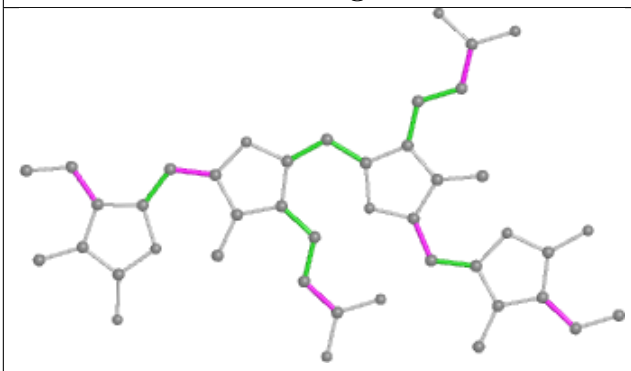
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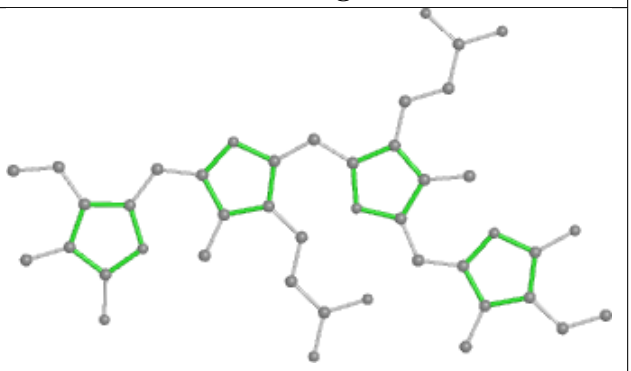
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Bond angles

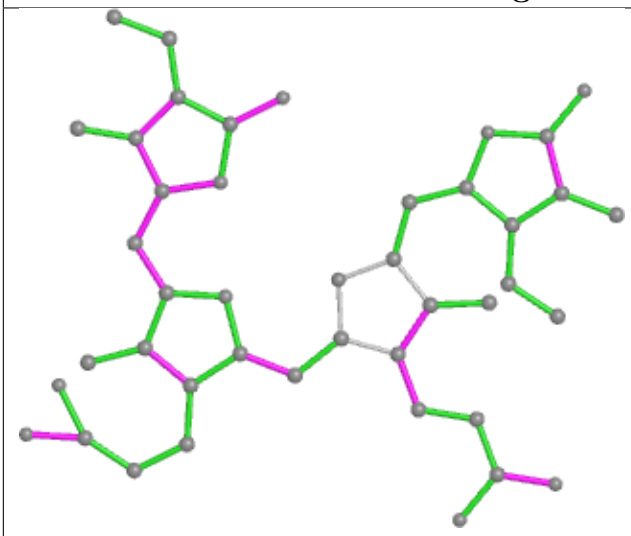


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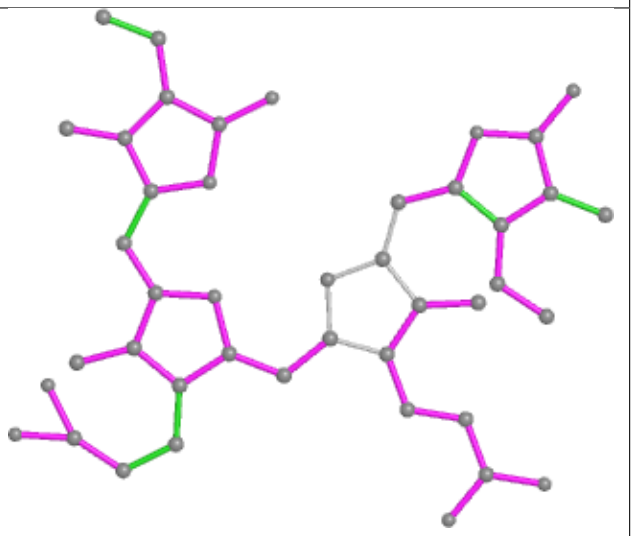


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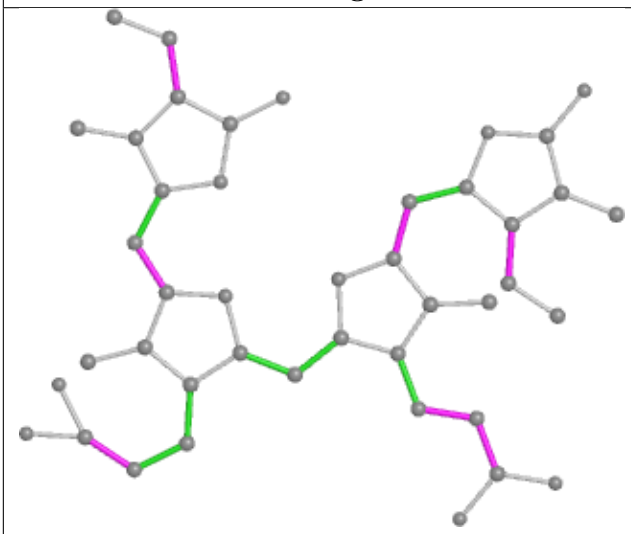
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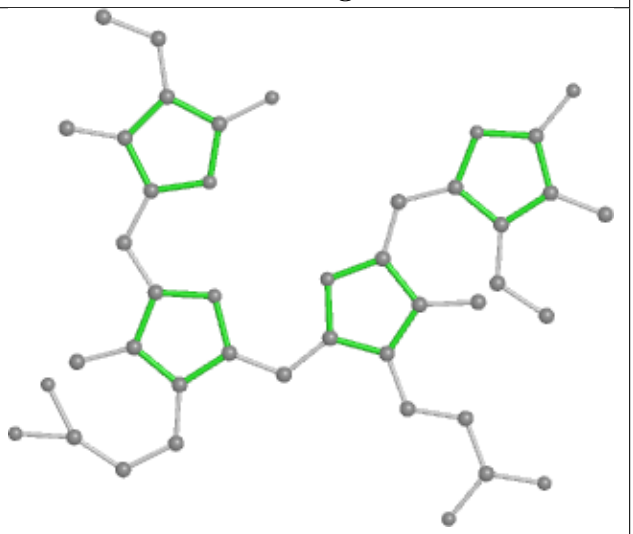
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Bond angles

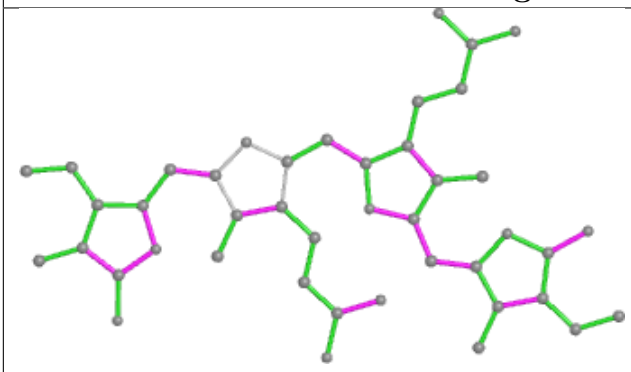


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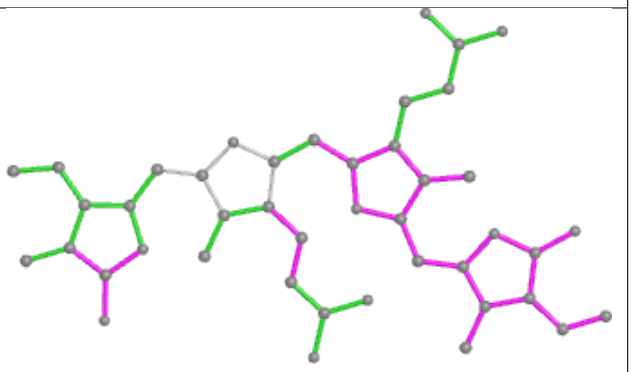


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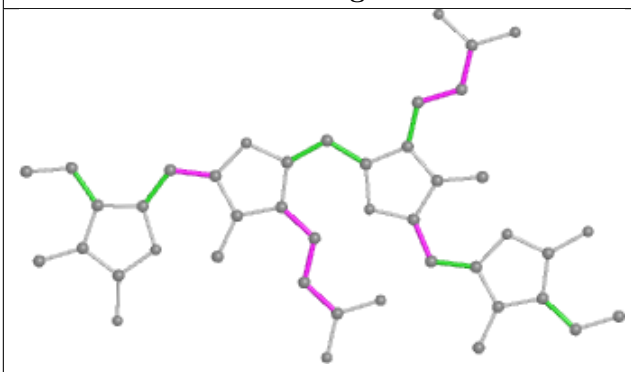
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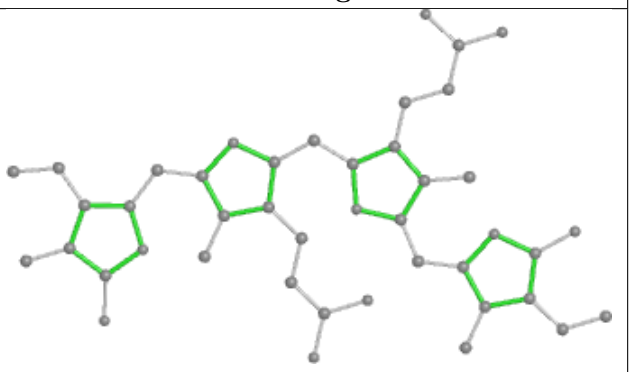
Bond lengths



Bond angles

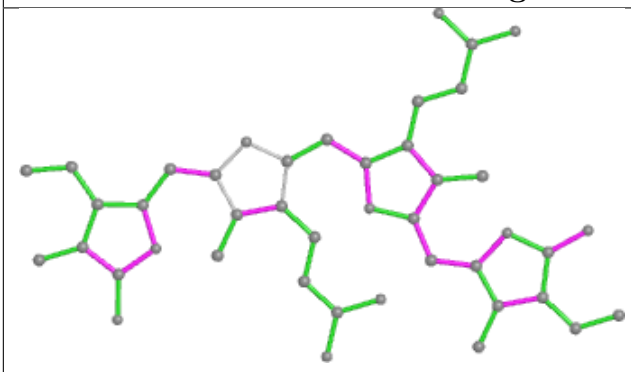


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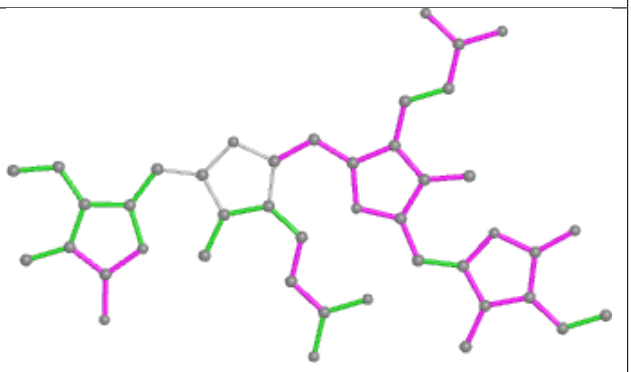


Rings

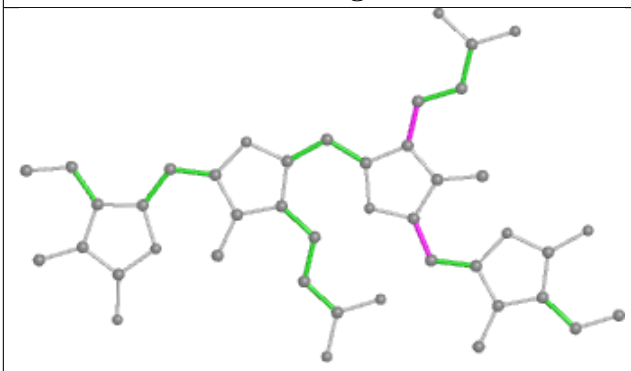
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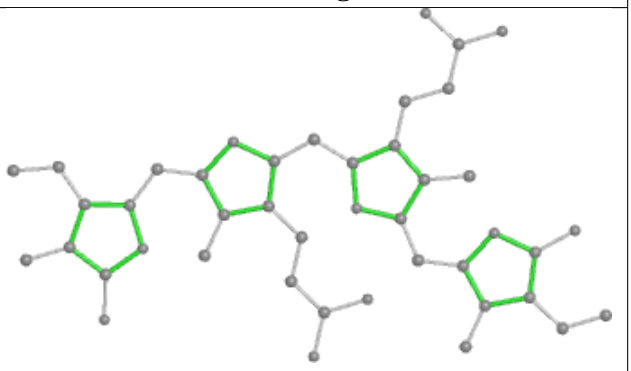
Bond lengths



Bond angles

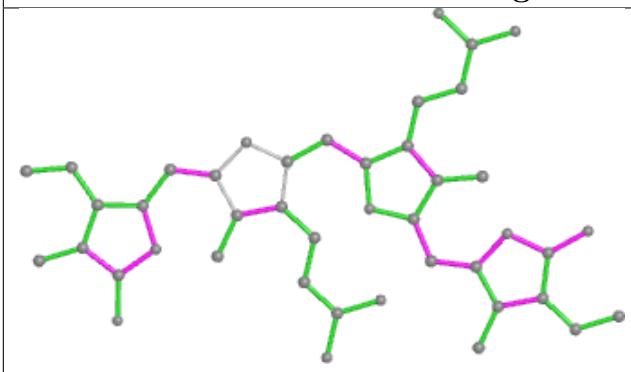


Torsions

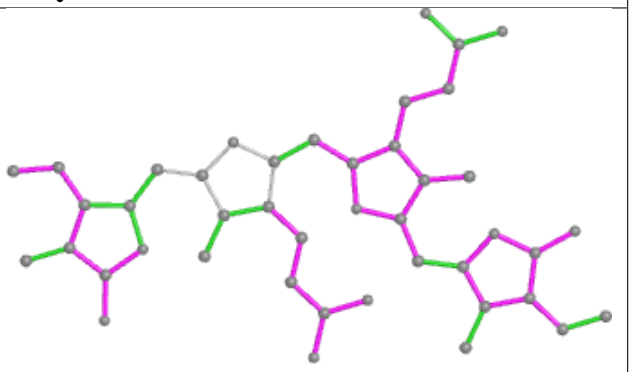


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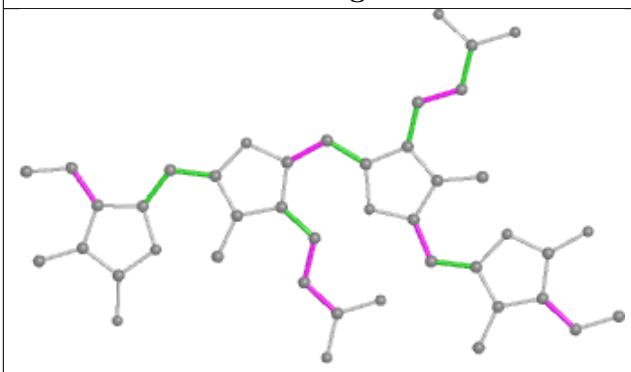
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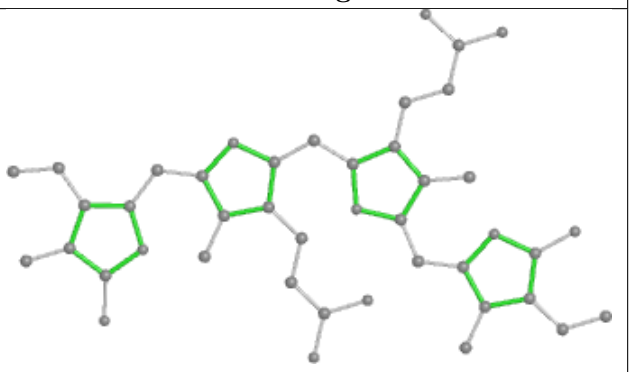
Bond lengths



Bond angles

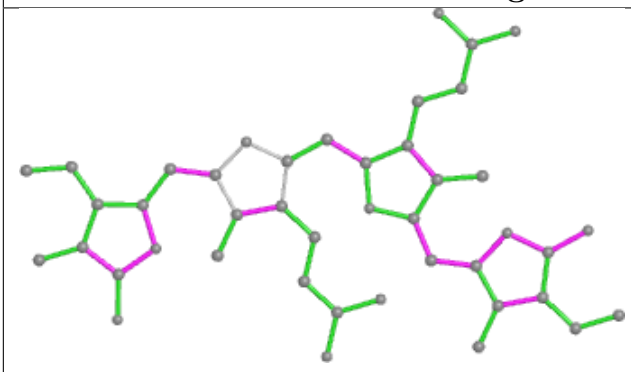


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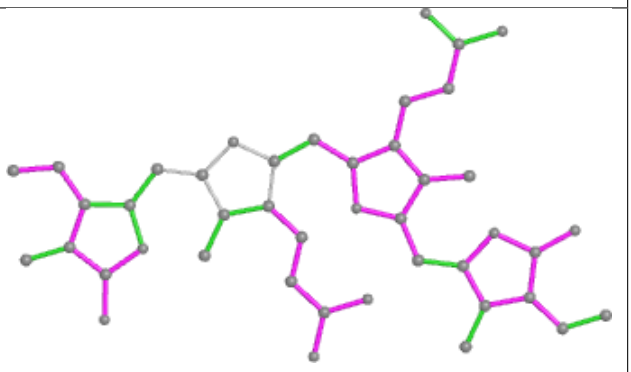


Rings

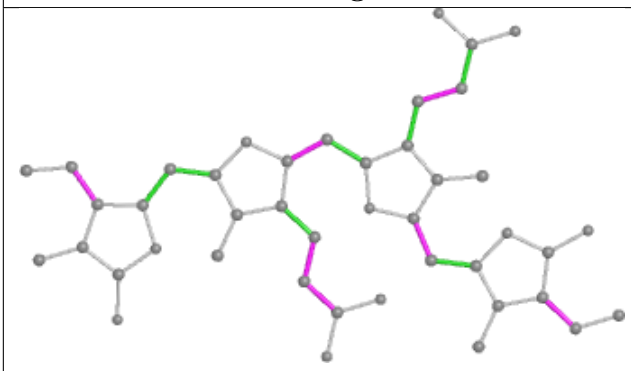
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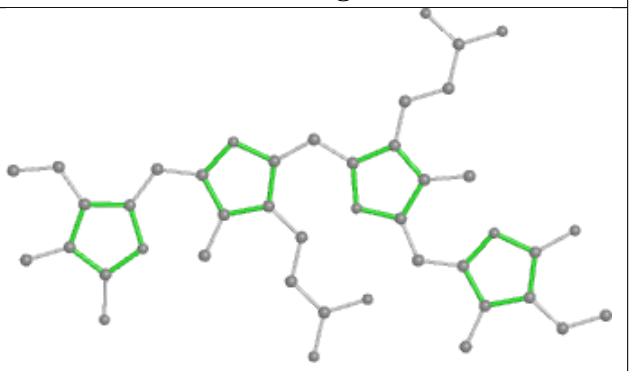
Bond lengths



Bond angles

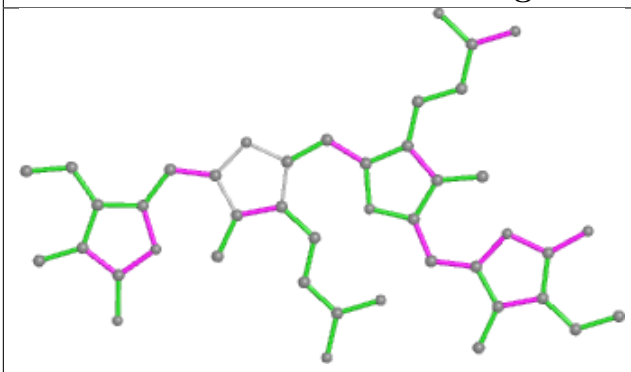


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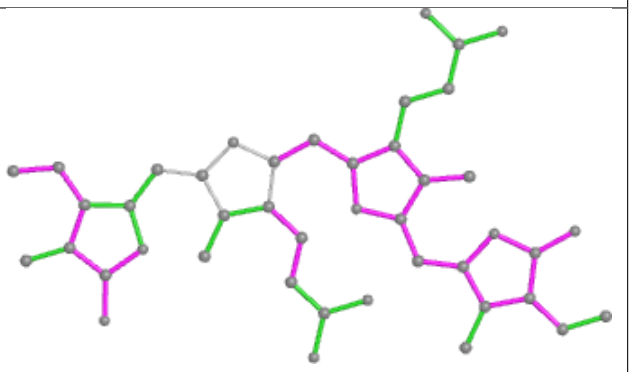


Rings

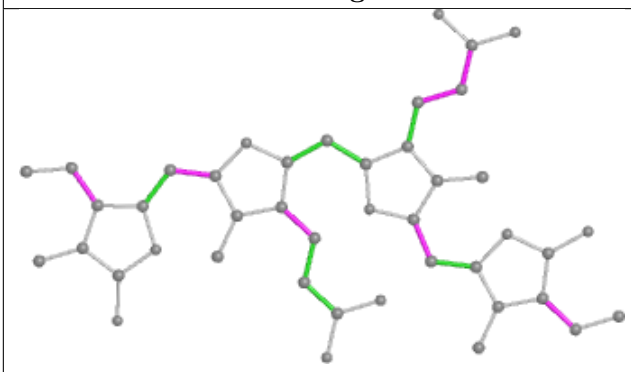
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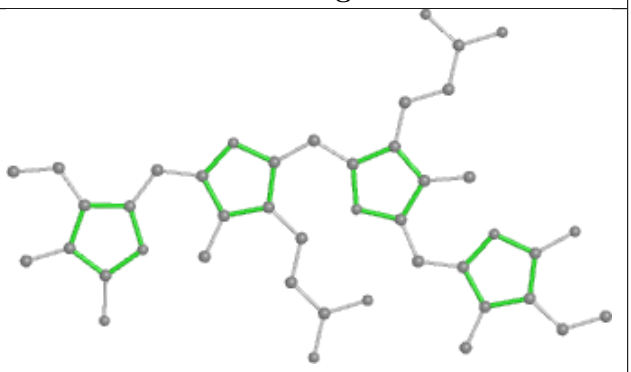
Bond lengths



Bond angles

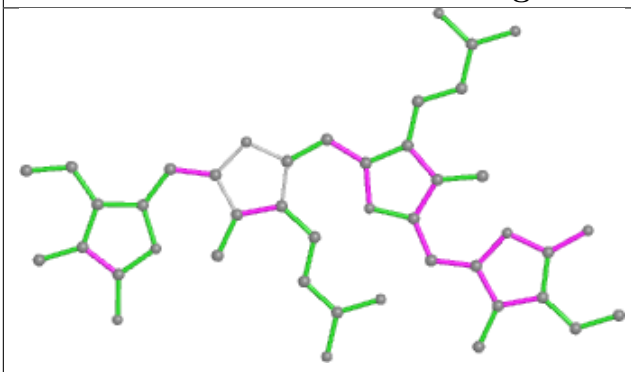


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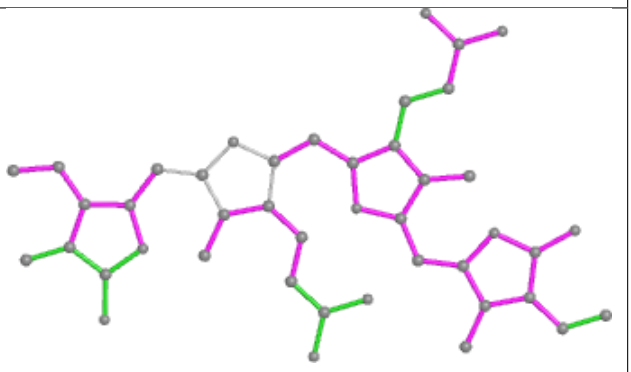


Rings

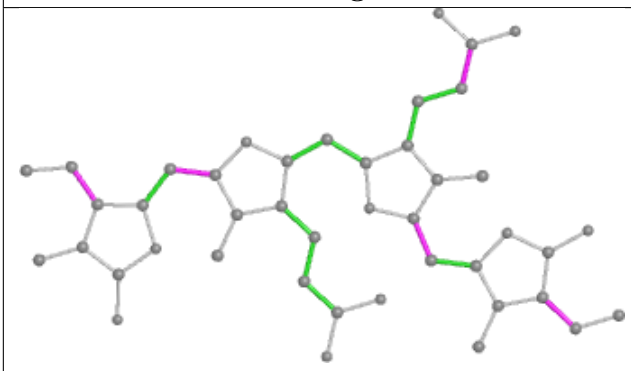
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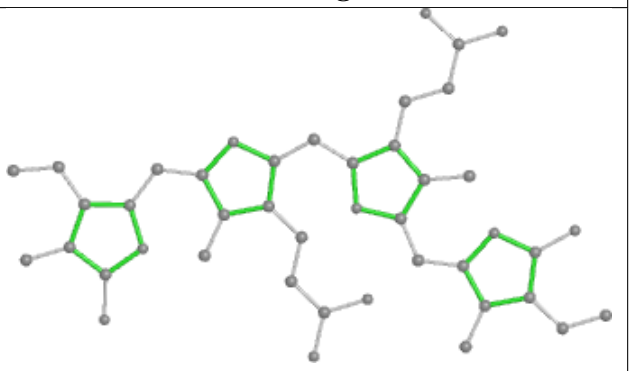
Bond lengths



Bond angles

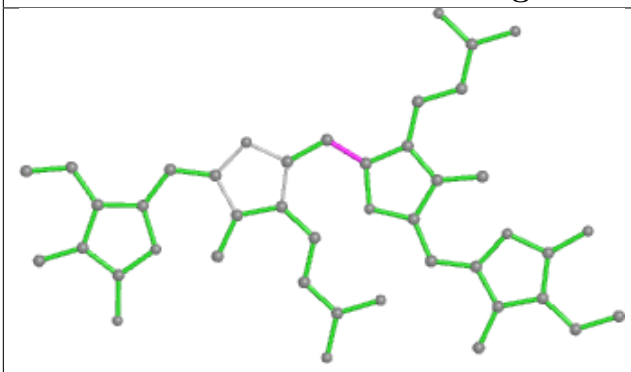


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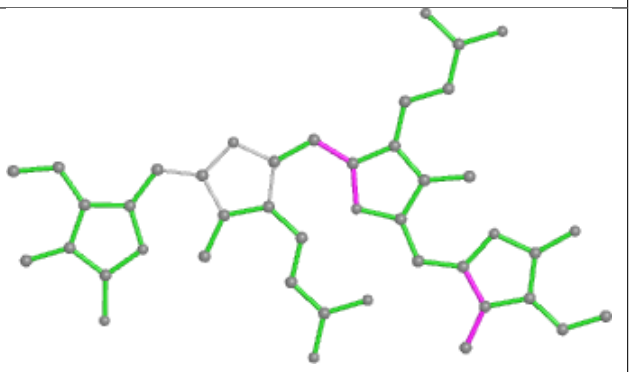


Rings

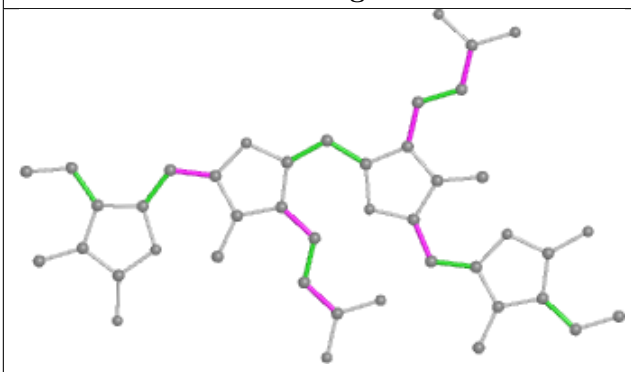
Ligand CYC K4 202



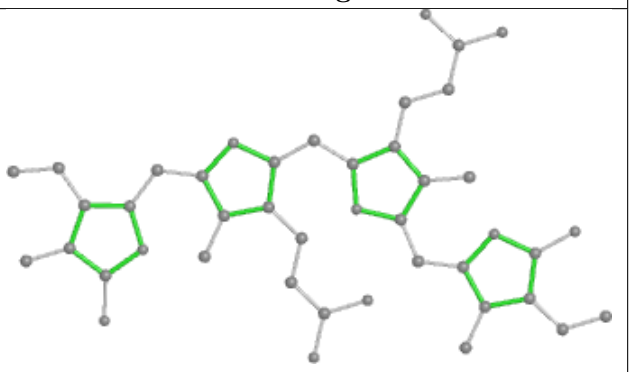
Bond lengths



Bond angles

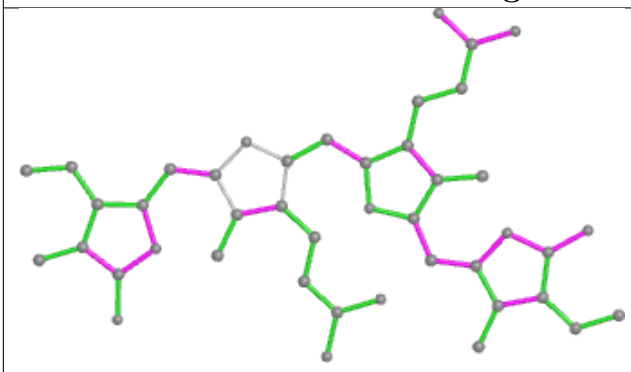


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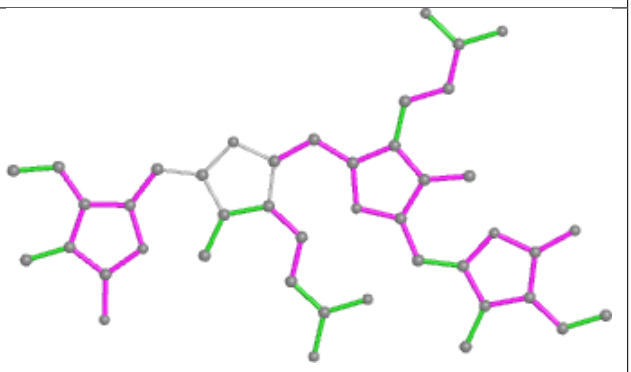


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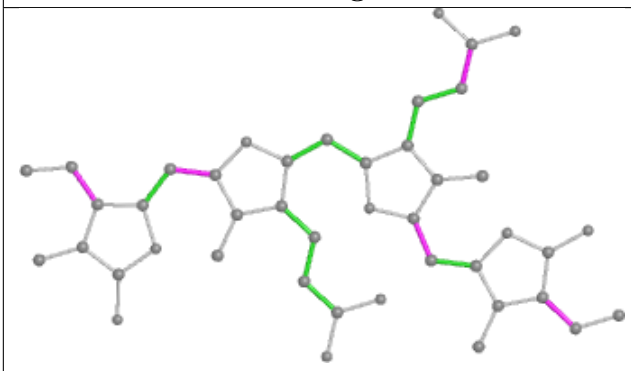
Ligand CYC H7 1001



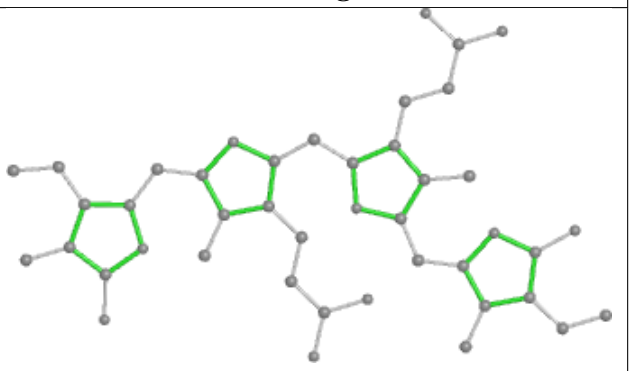
Bond lengths



Bond angles

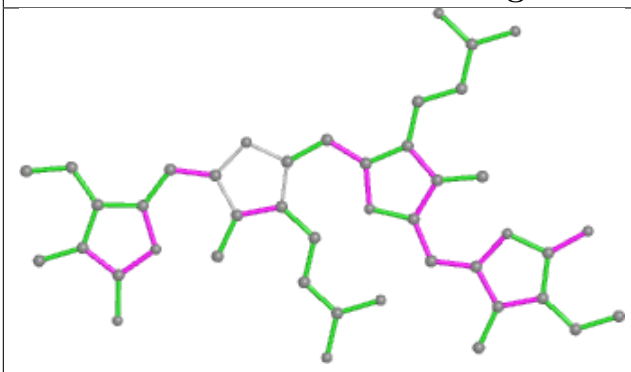


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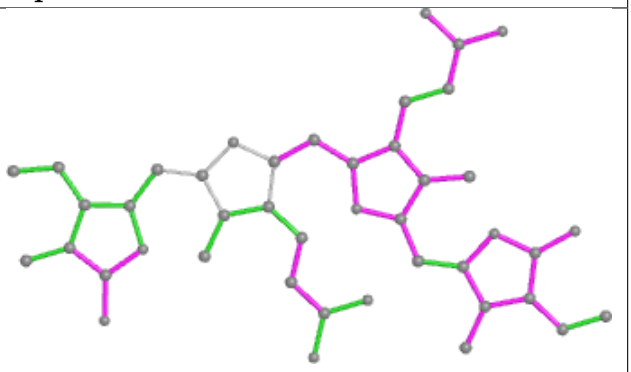


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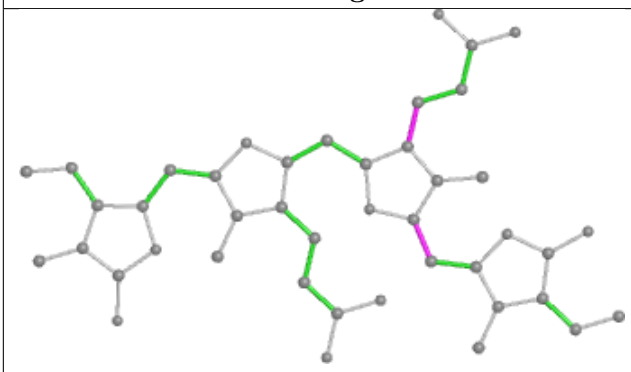
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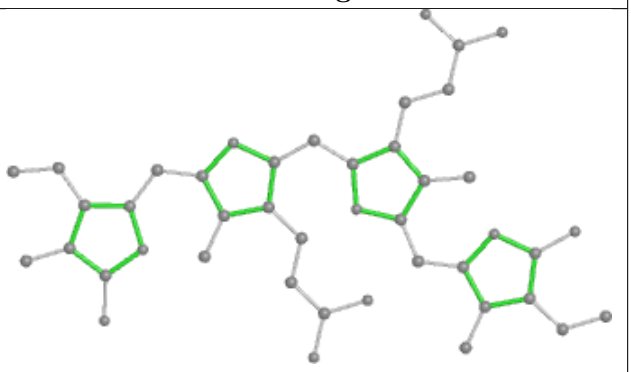
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Bond angles

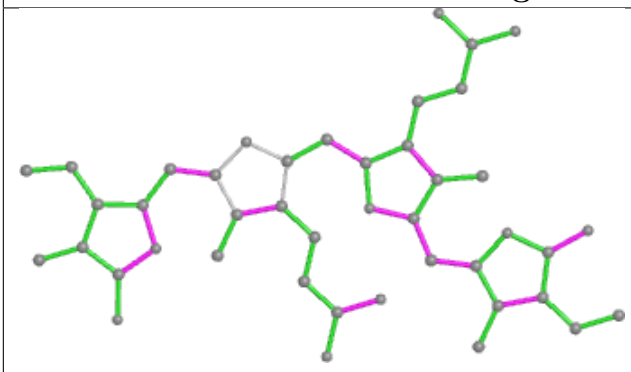


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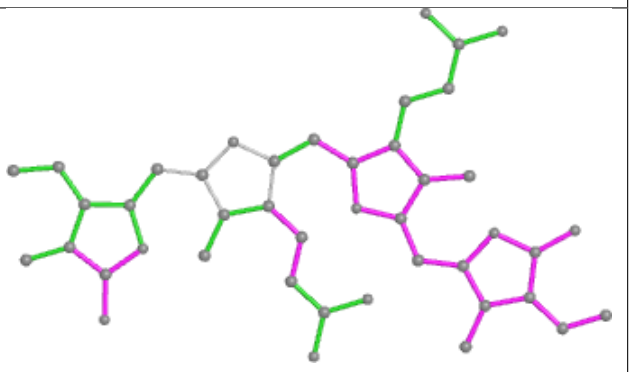


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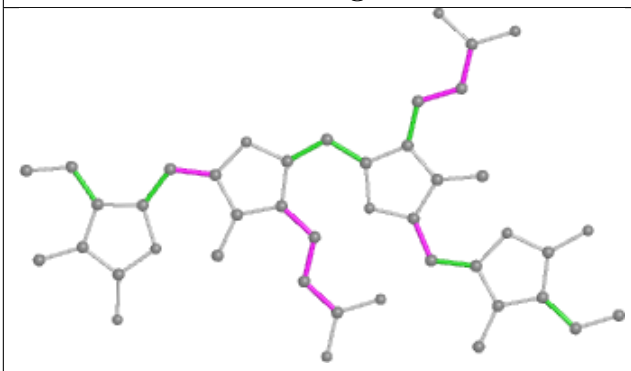
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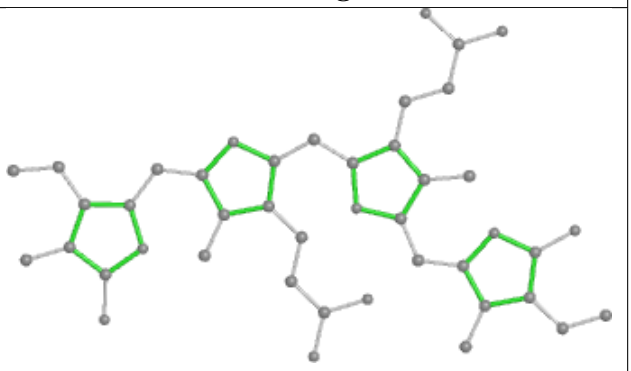
Bond lengths



Bond angles

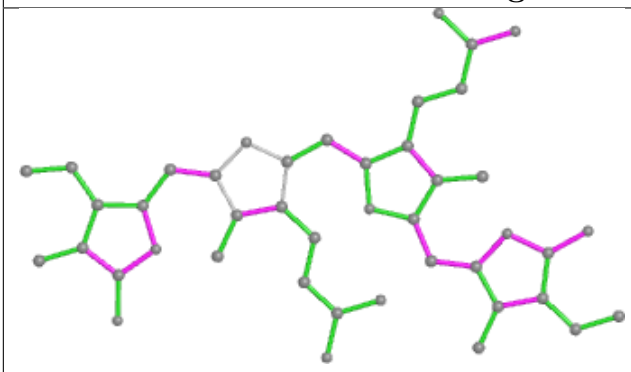


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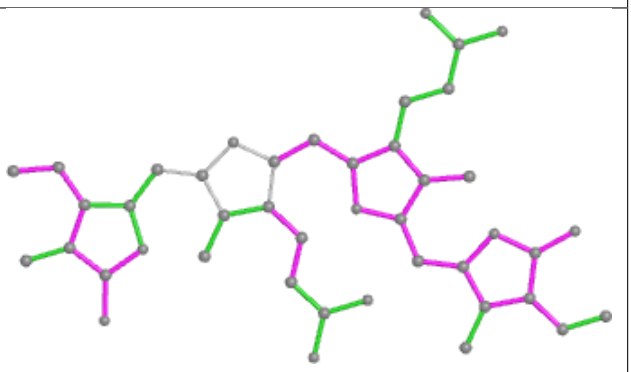


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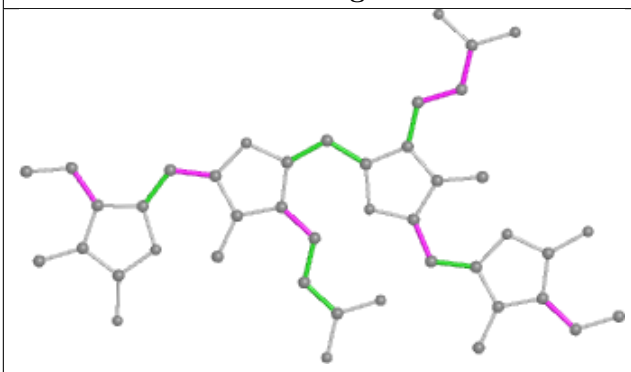
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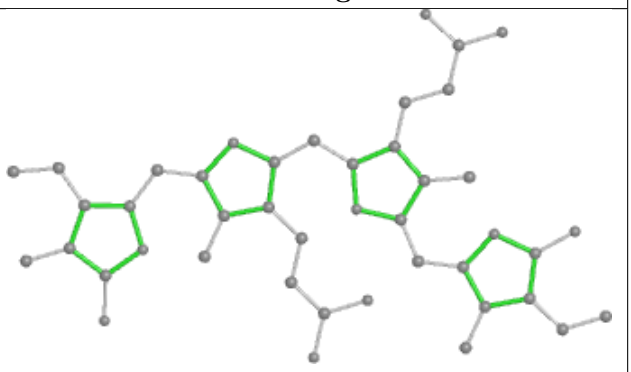
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Bond angles

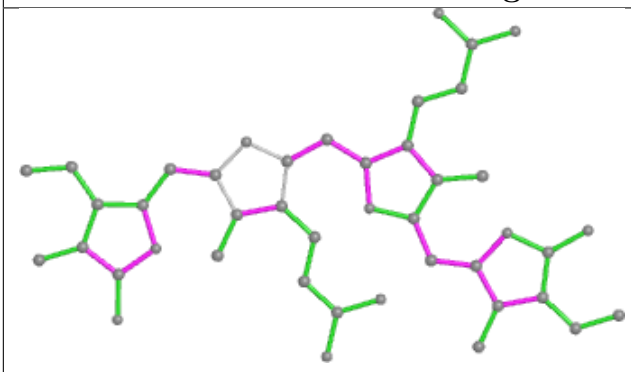


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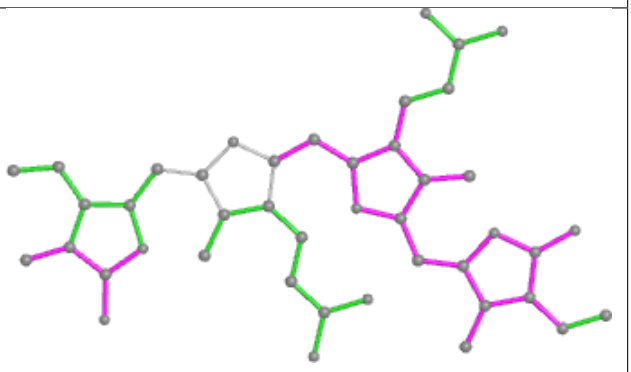


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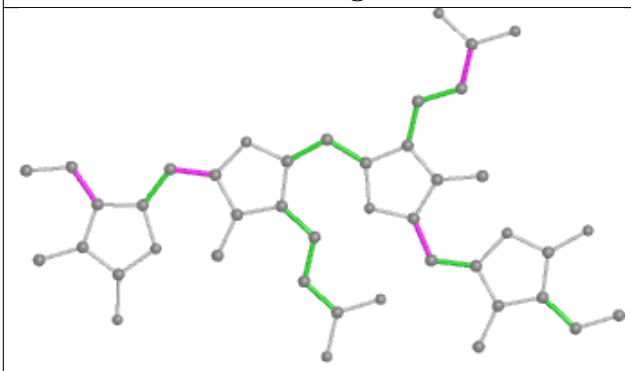
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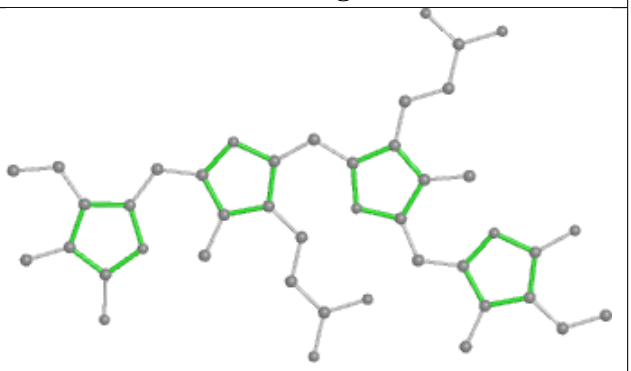
Bond lengths



Bond angles

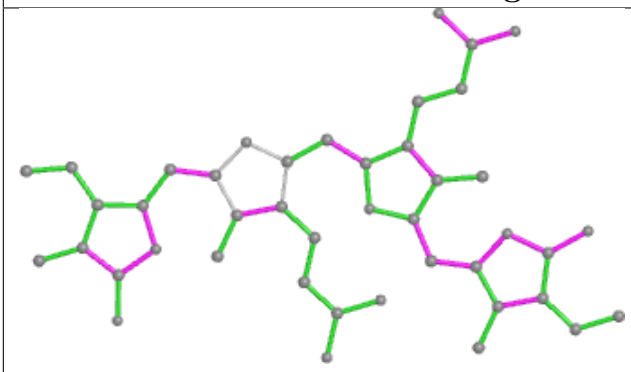


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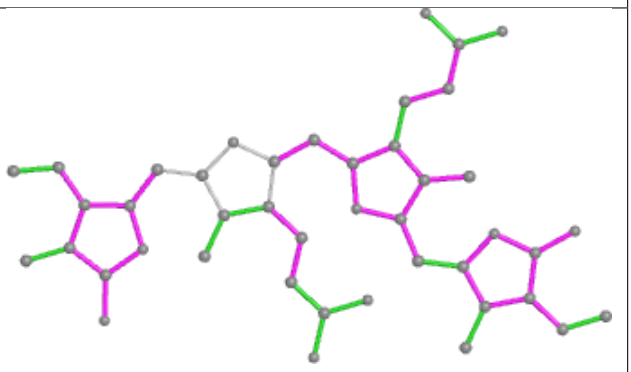


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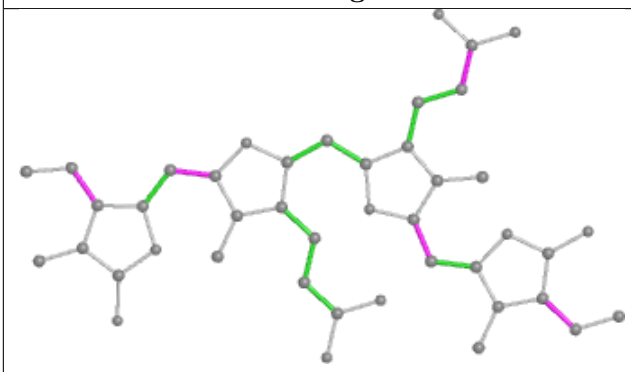
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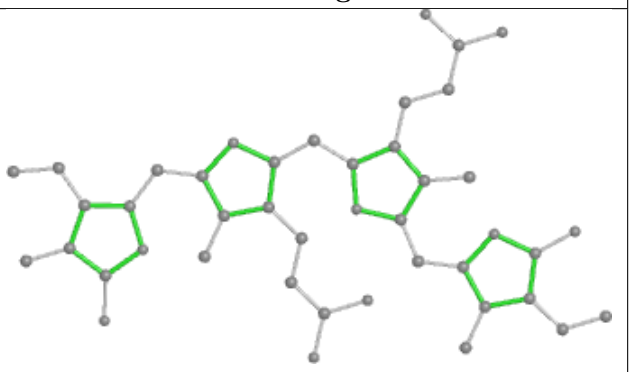
Bond lengths



Bond angles

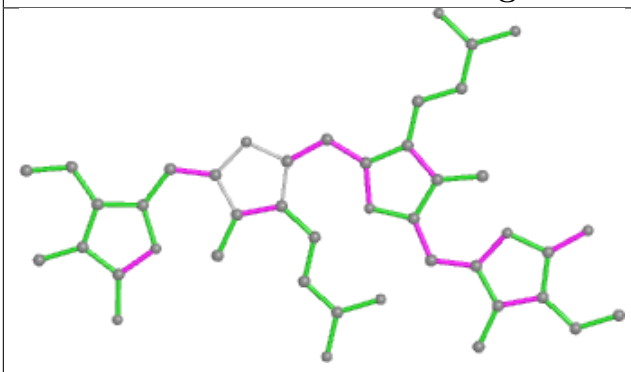


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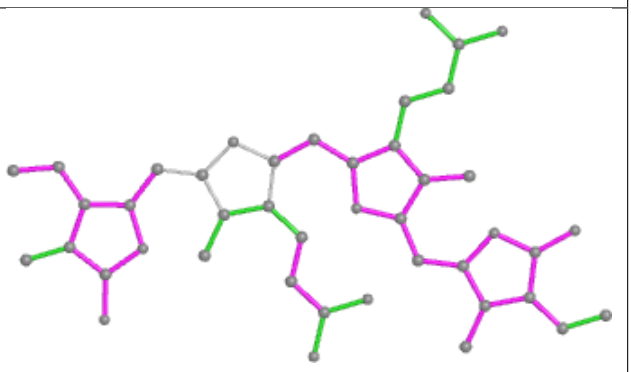


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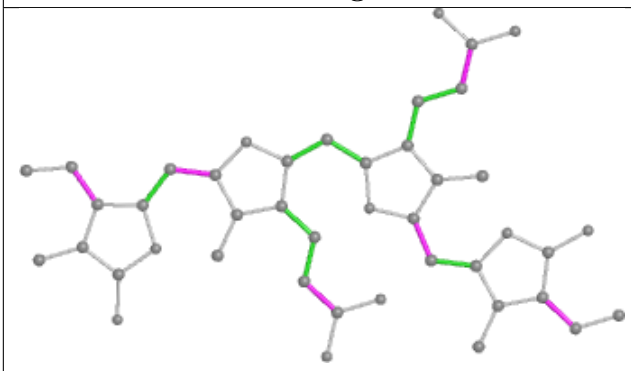
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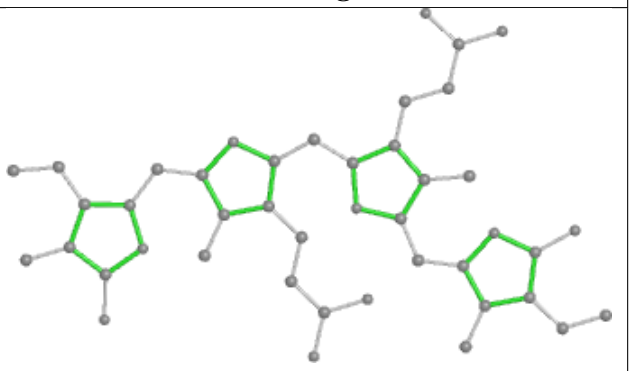
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Bond angles

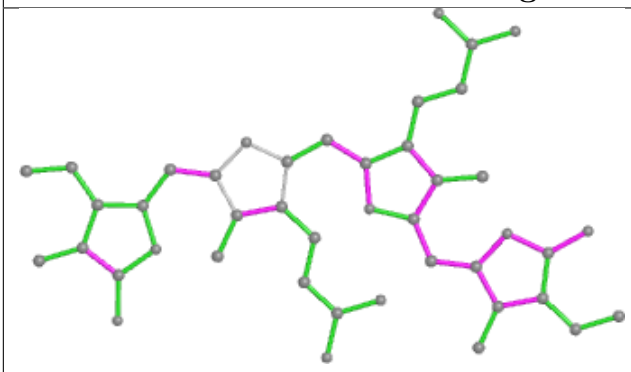


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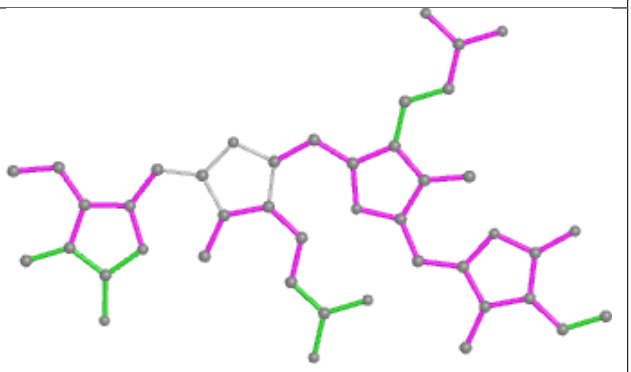


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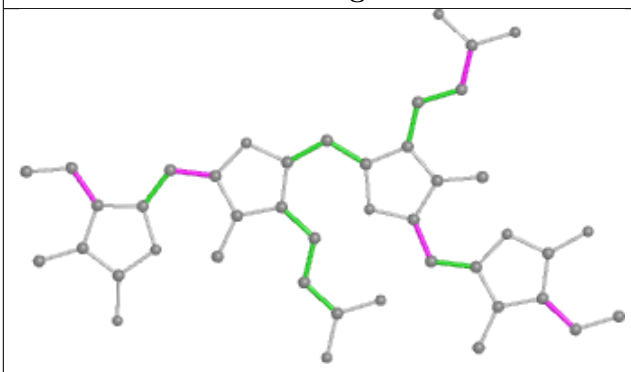
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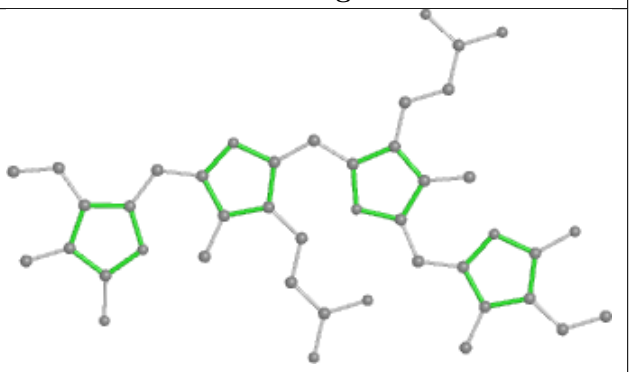
Bond lengths



Bond angles

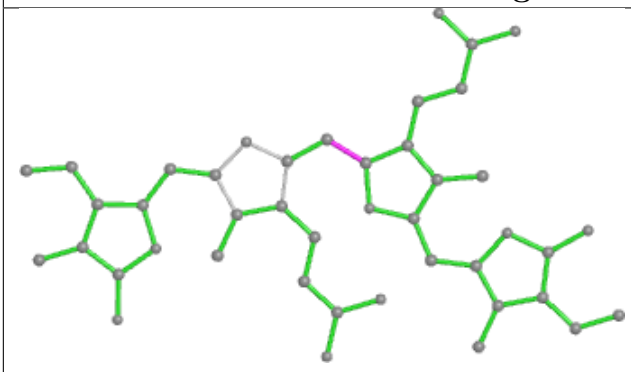


Torsions

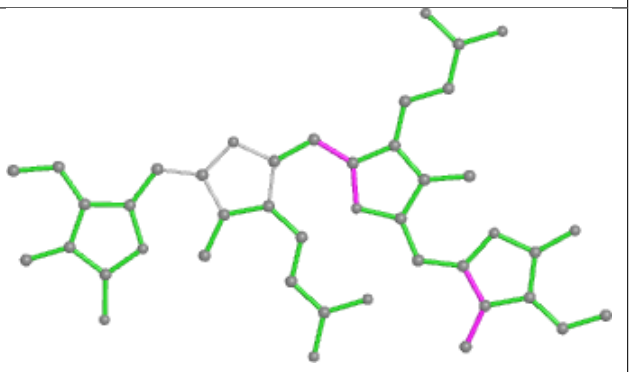


Rings

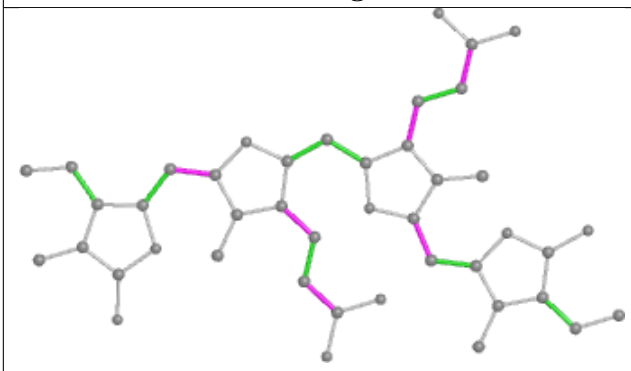
Ligand CYC C8 201



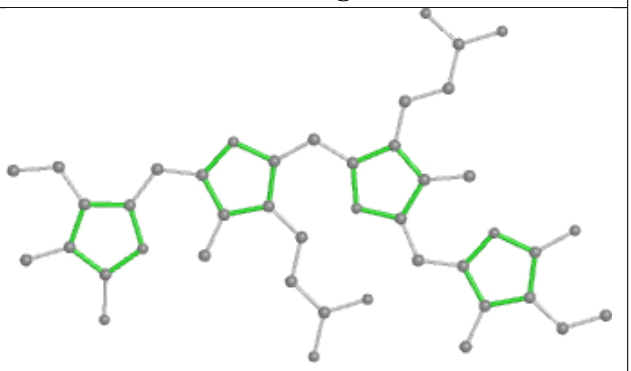
Bond lengths



Bond angles

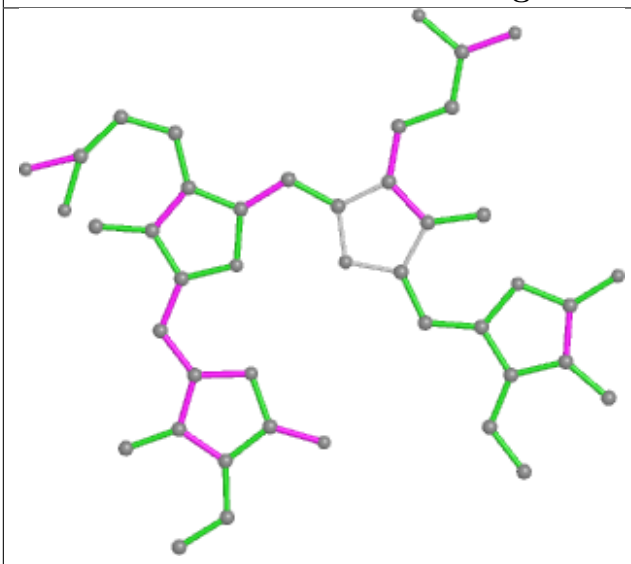


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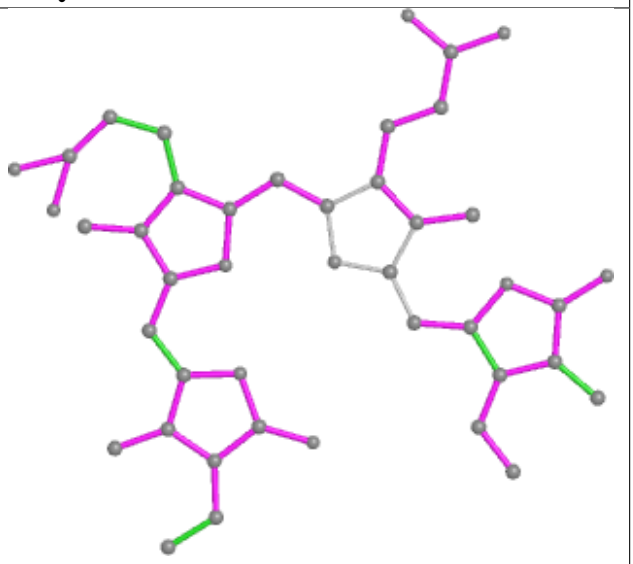


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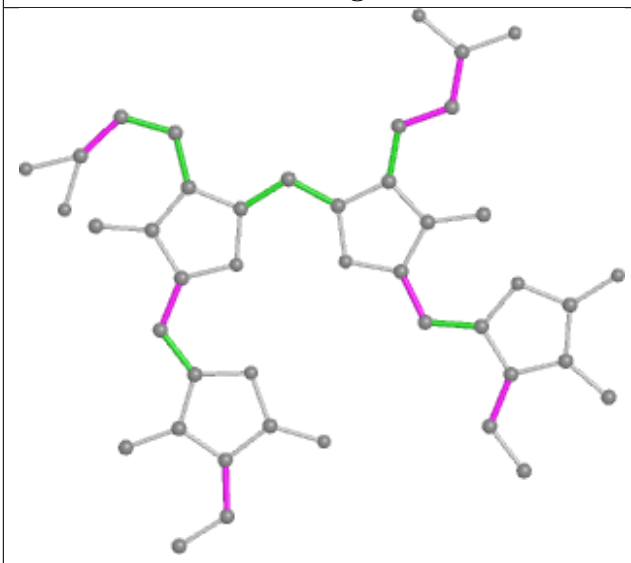
Ligand CYC Q5 201



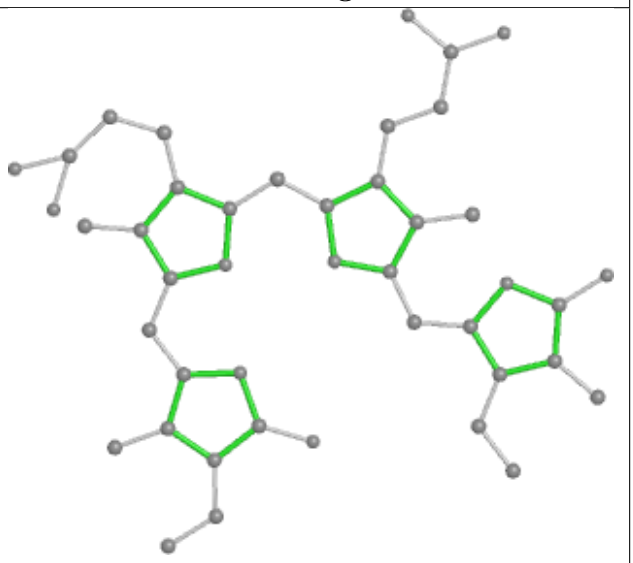
Bond lengths



Bond angles

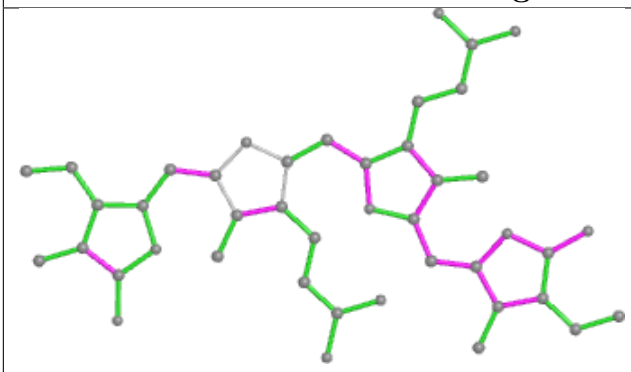


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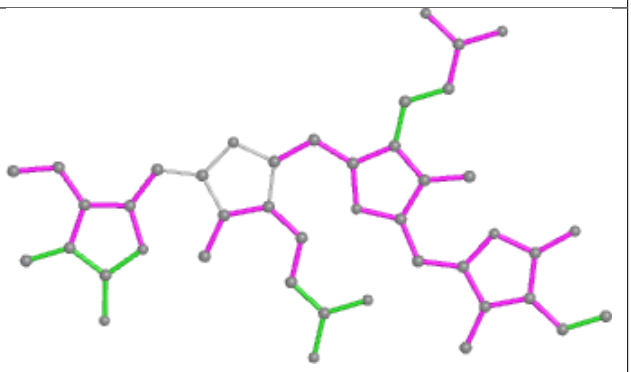


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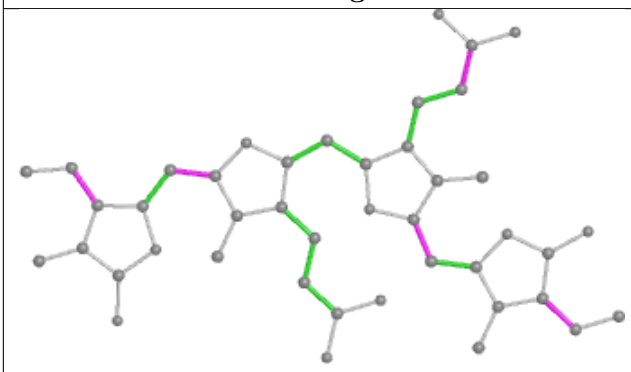
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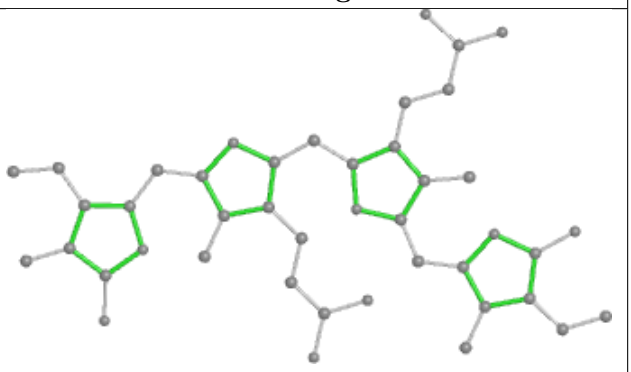
Bond lengths



Bond angles

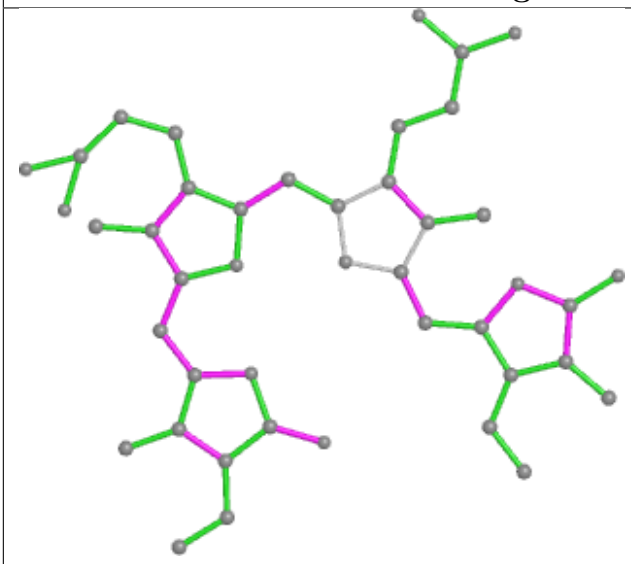


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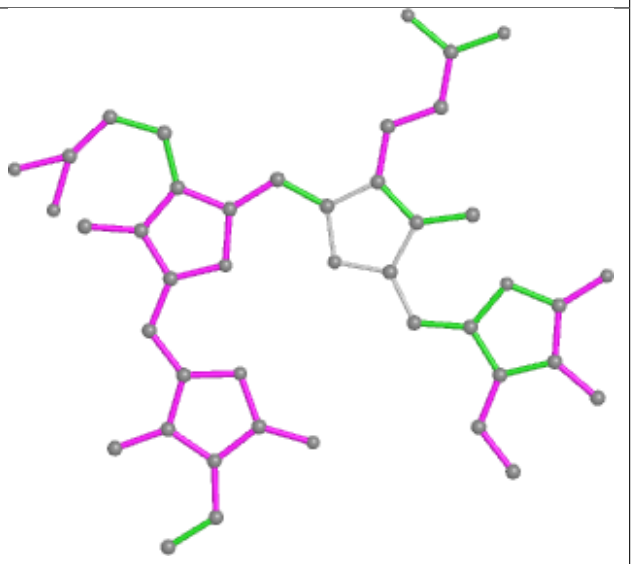


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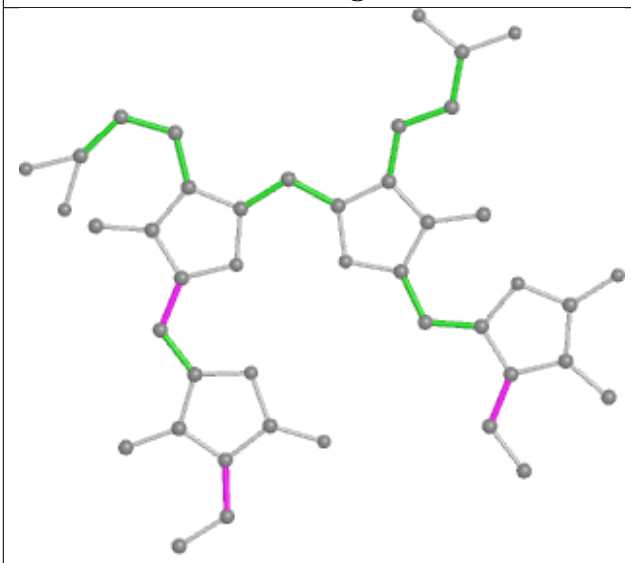
Ligand CYC C2 201



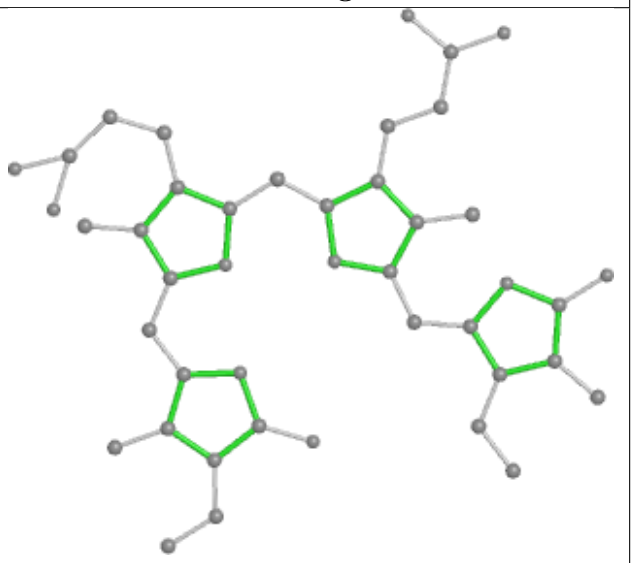
Bond lengths



Bond angles

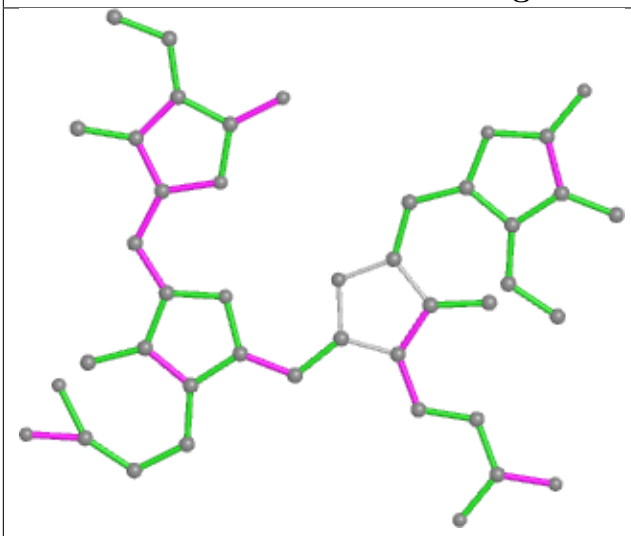


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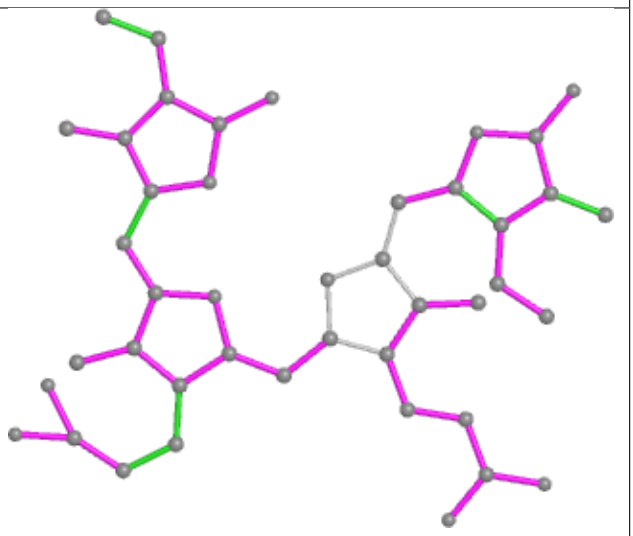


Rings

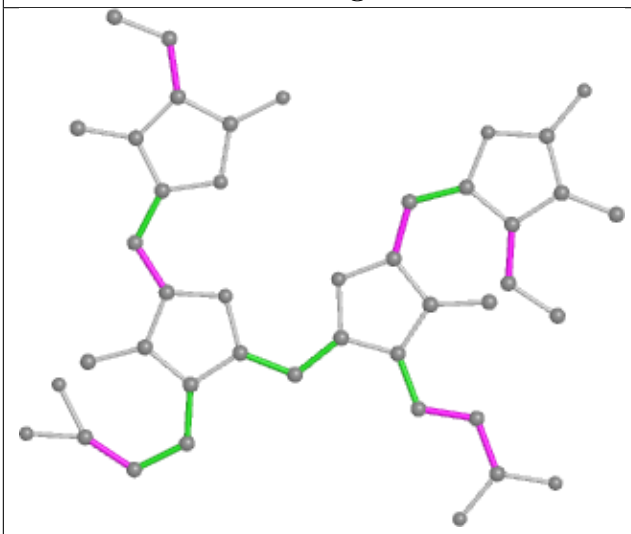
Ligand CYC V5 202



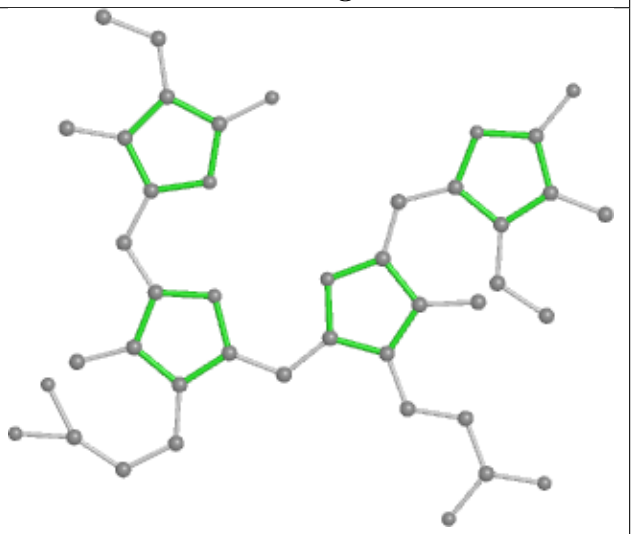
Bond lengths



Bond angles

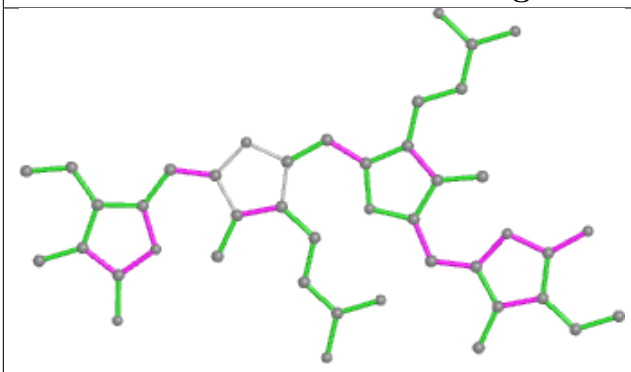


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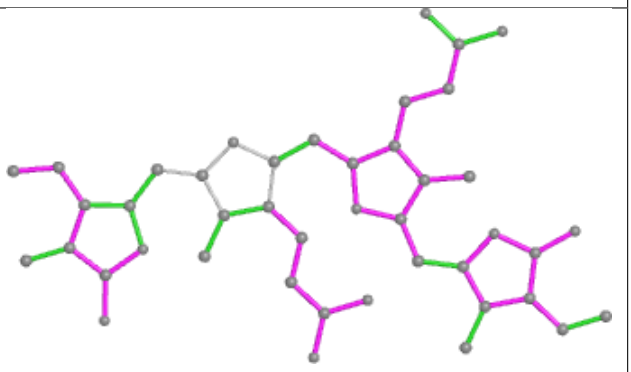


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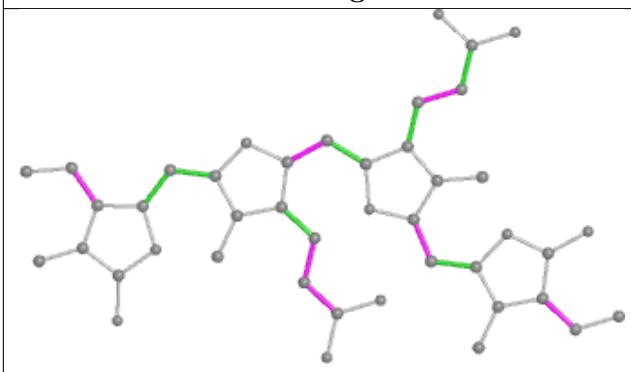
Ligand CYC O6 201



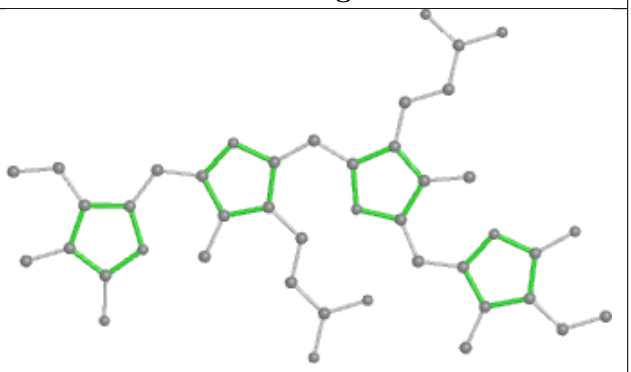
Bond lengths



Bond angles

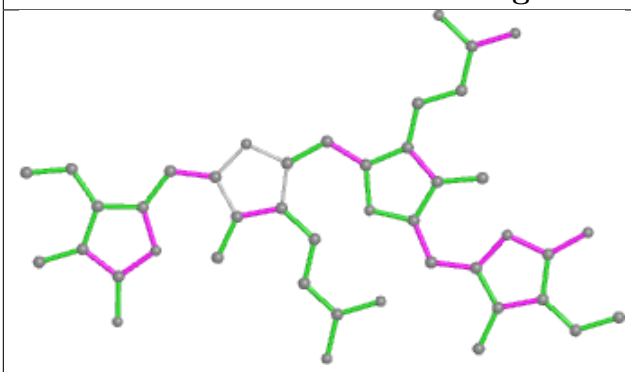


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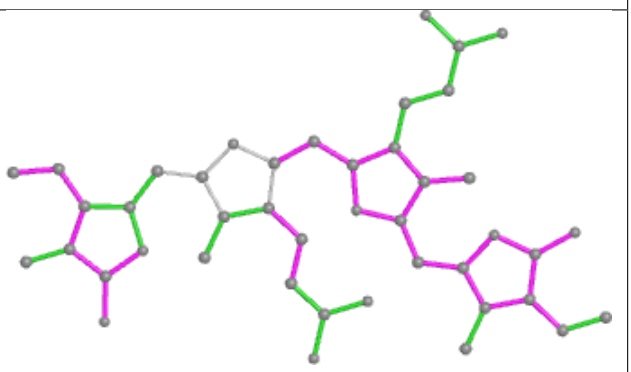


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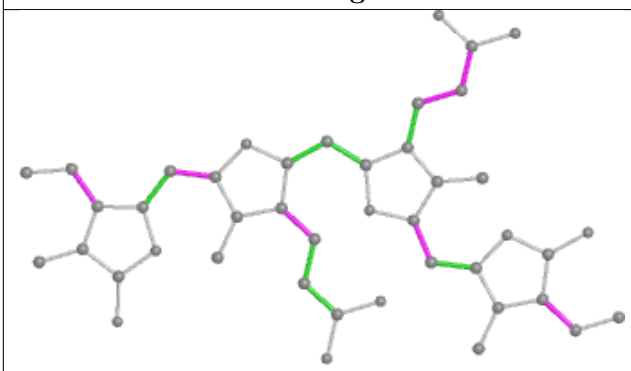
Ligand CYC D8 201



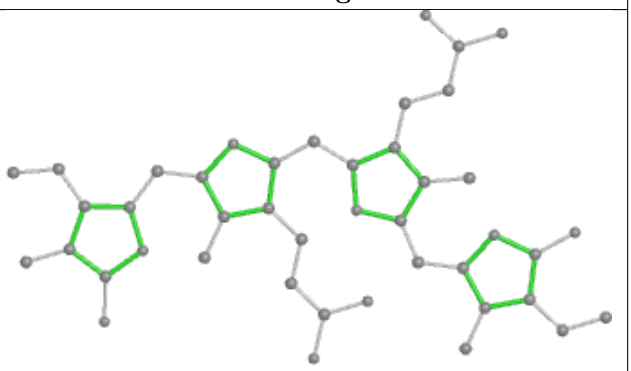
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Bond angles

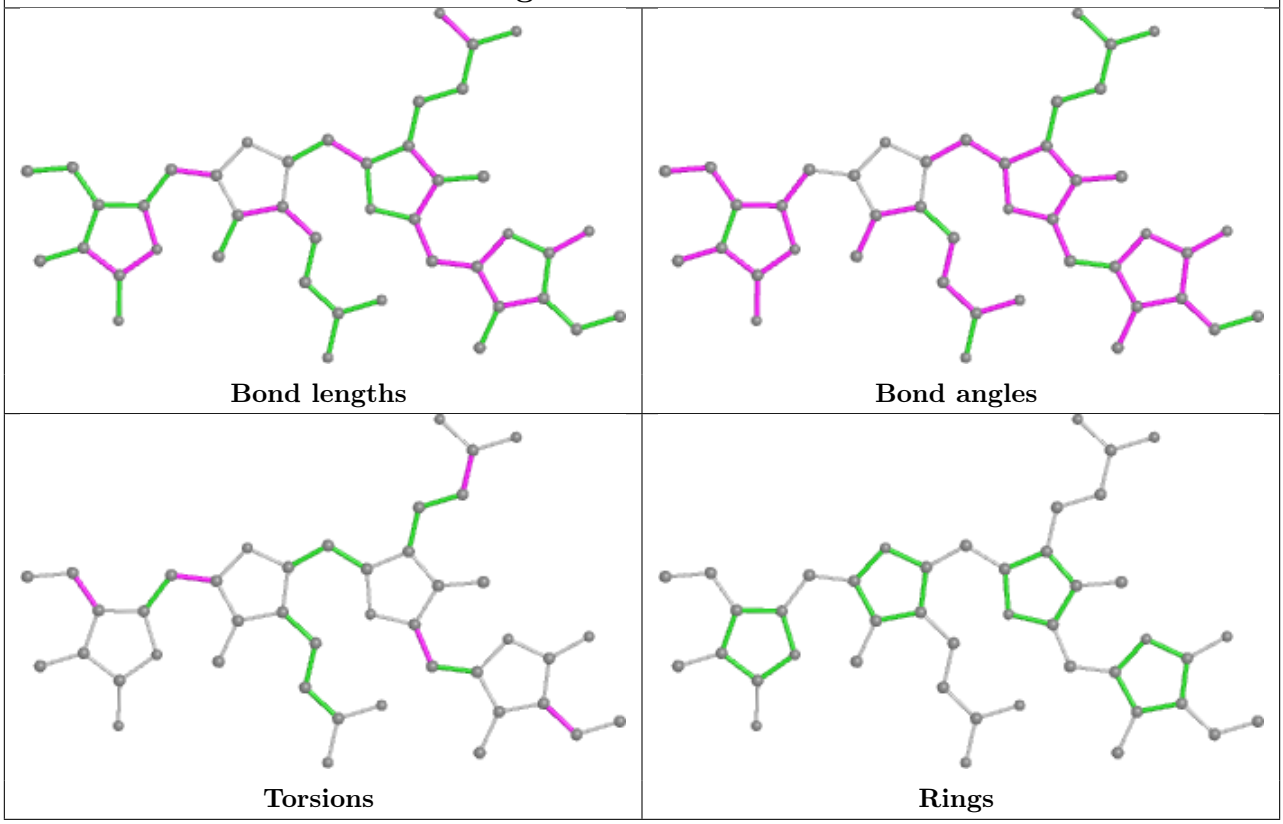


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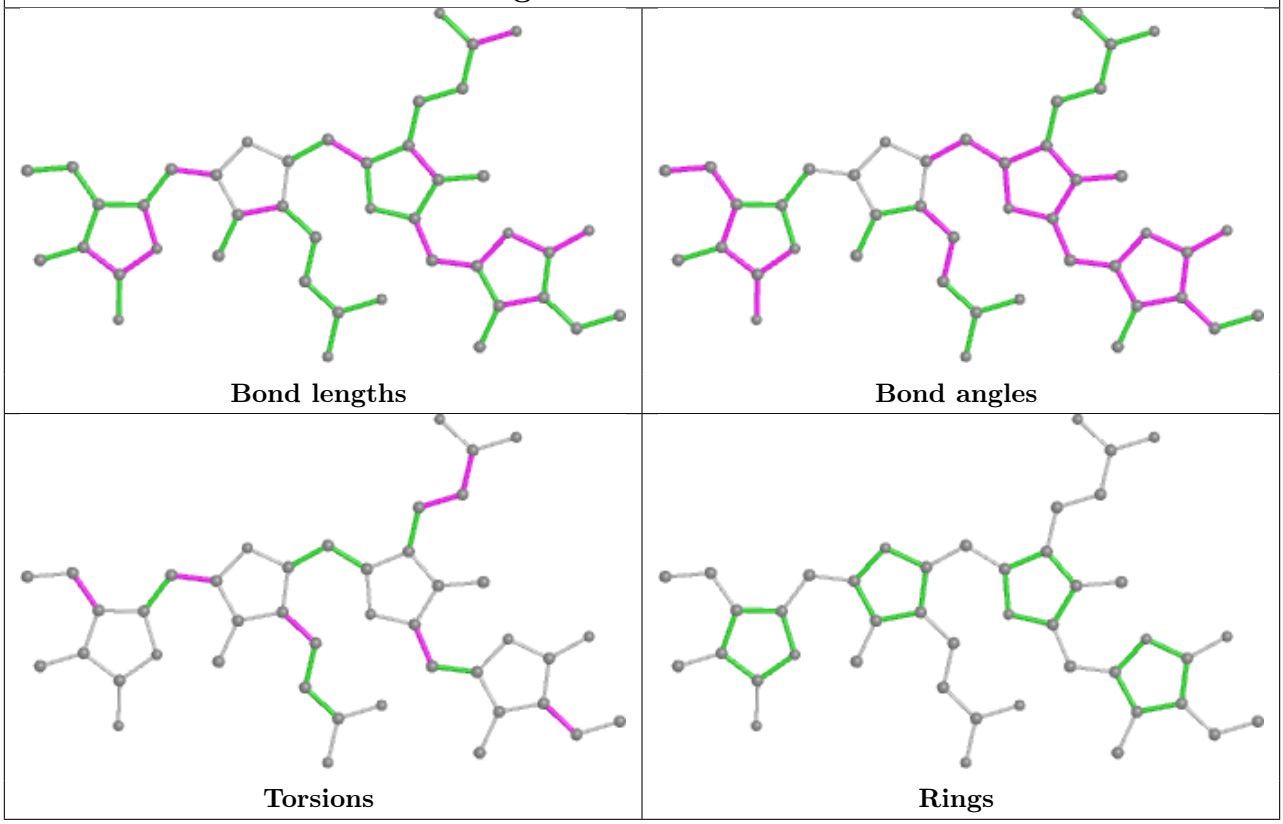


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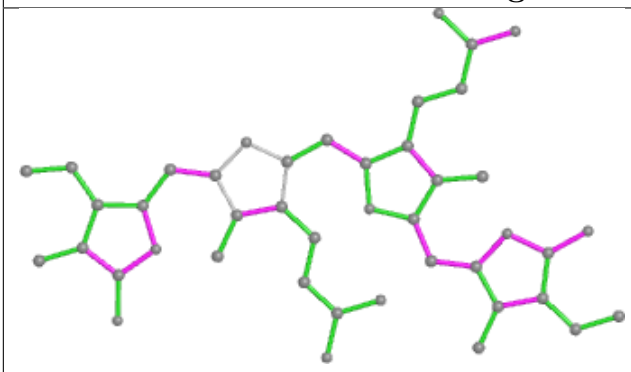
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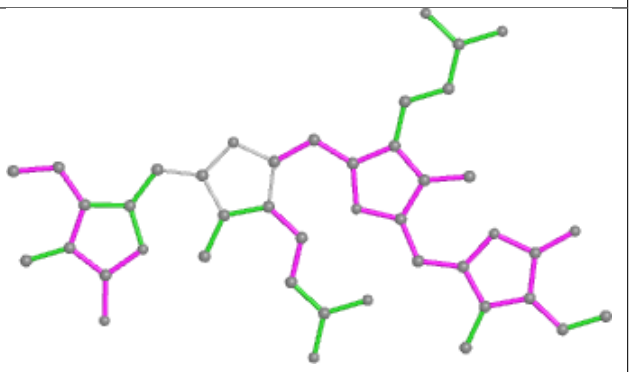
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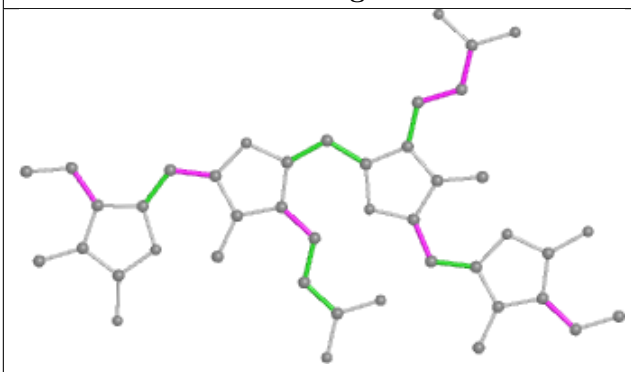
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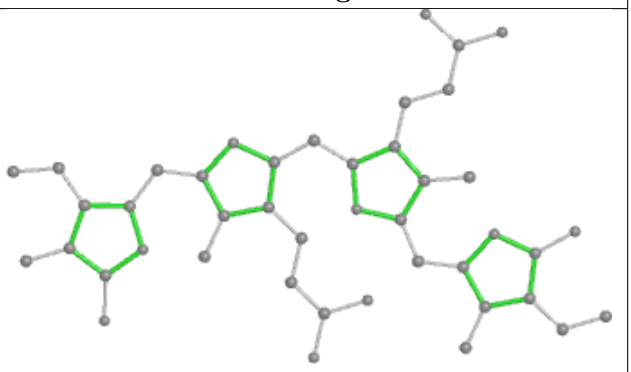
Bond lengths



Bond angles

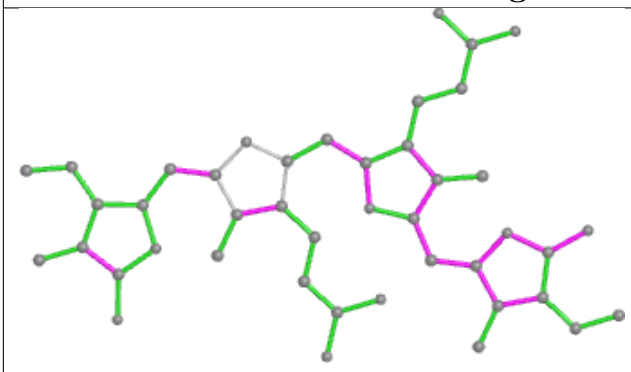


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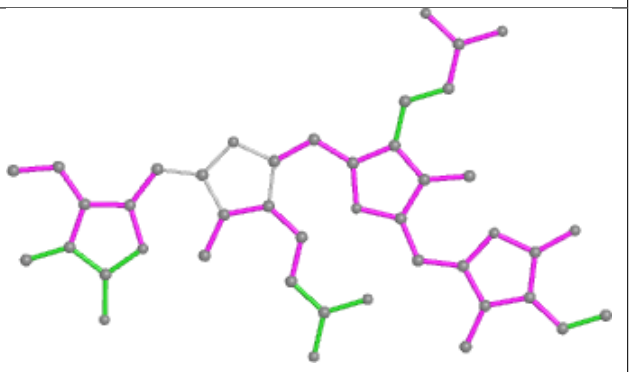


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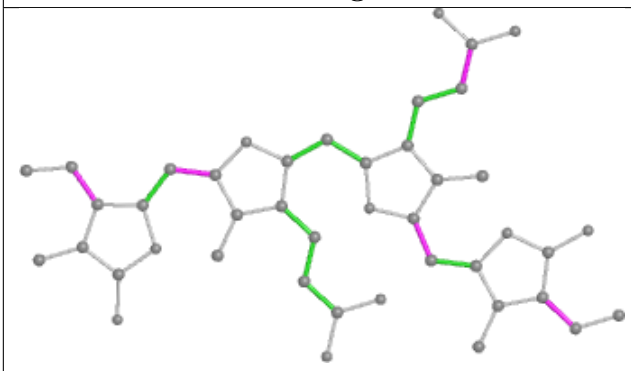
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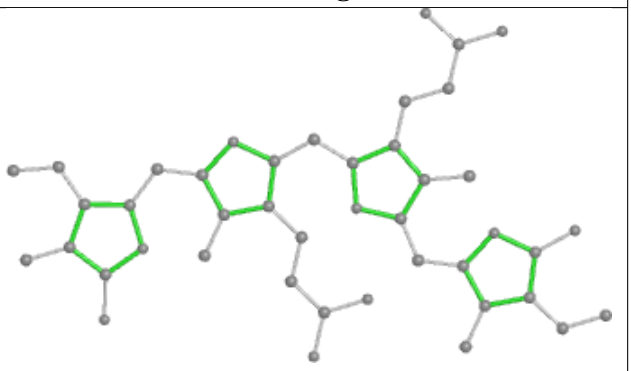
Bond lengths



Bond angles

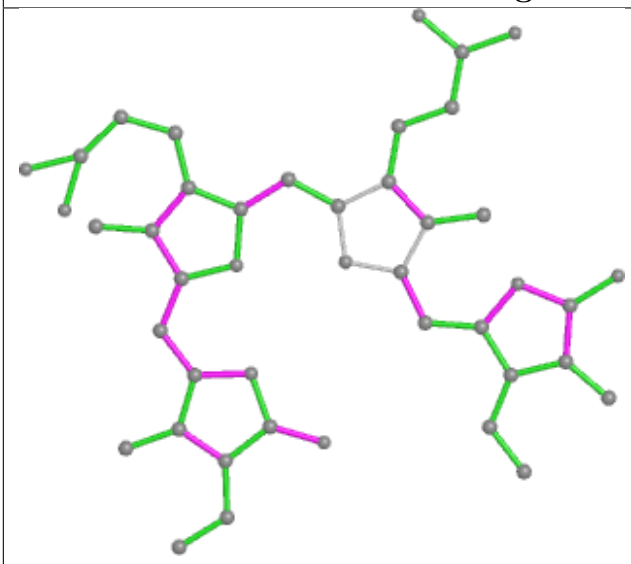


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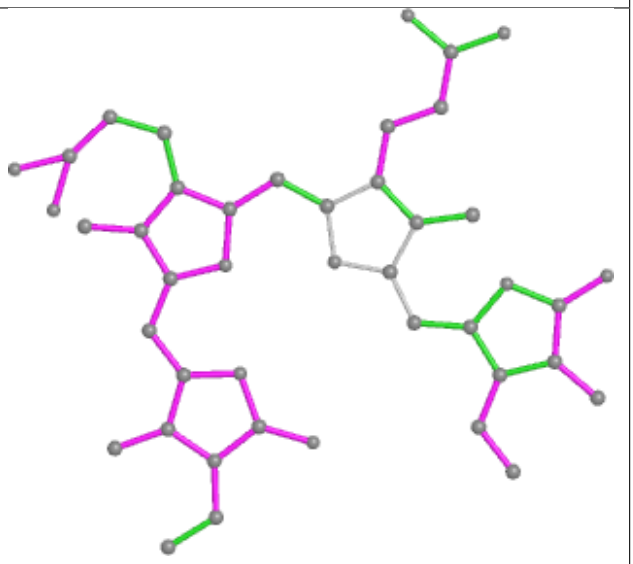


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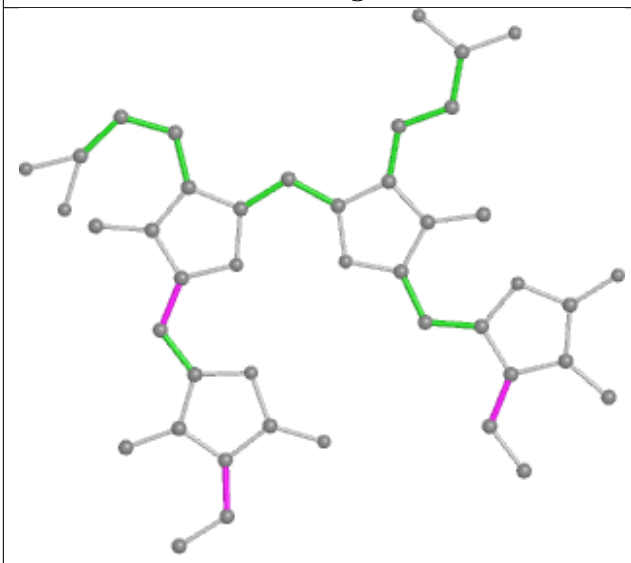
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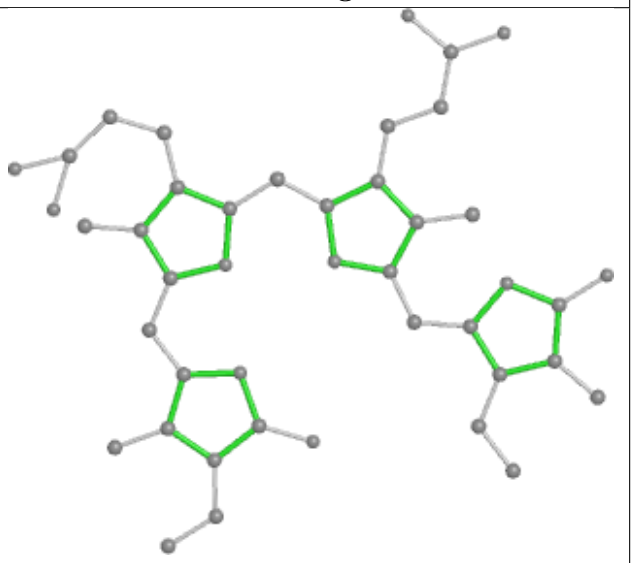
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Bond angles

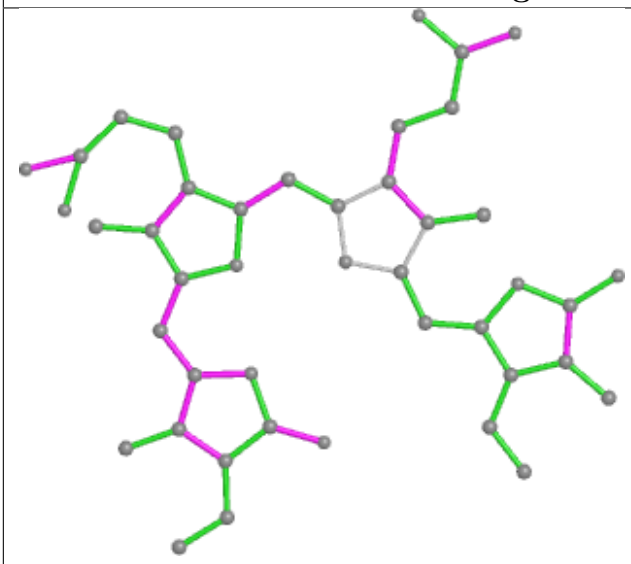


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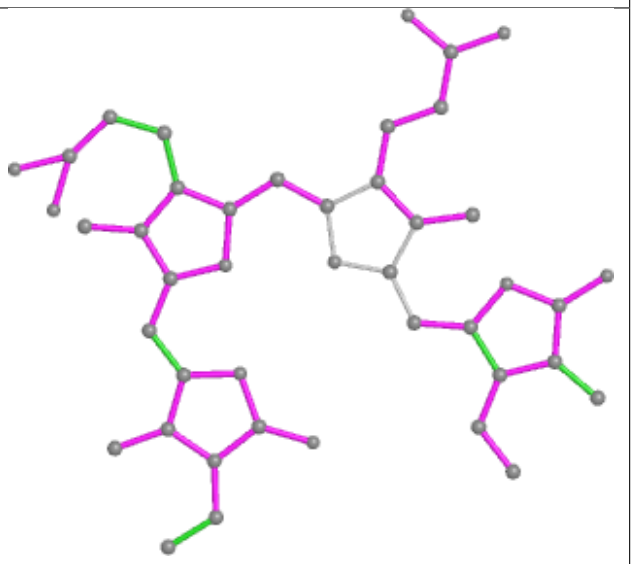


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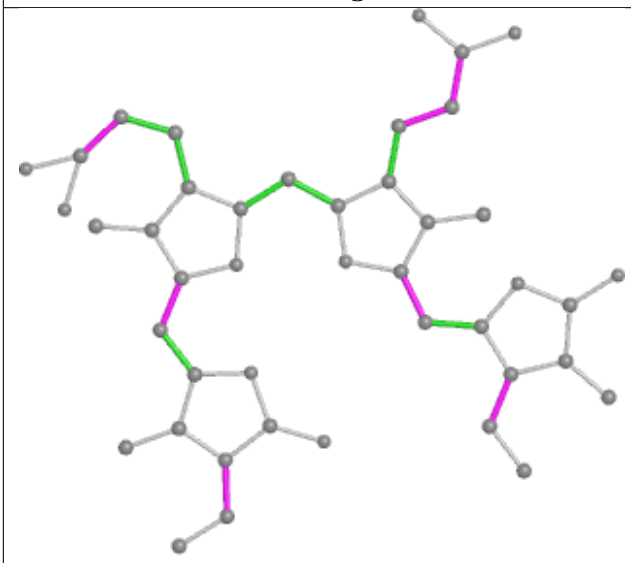
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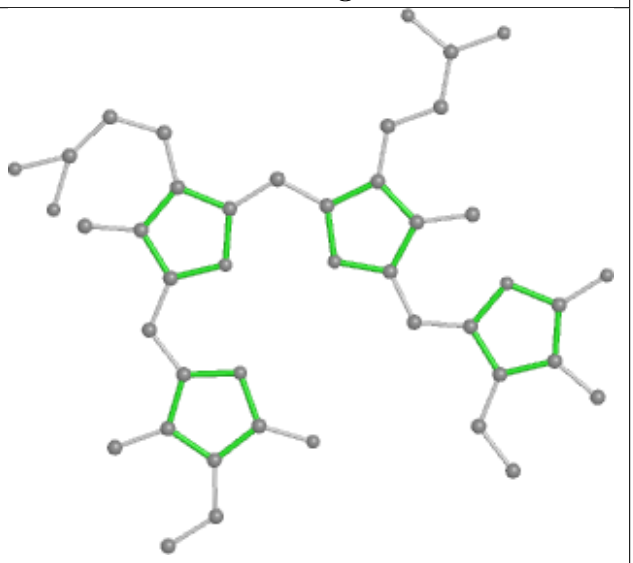
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Bond angles

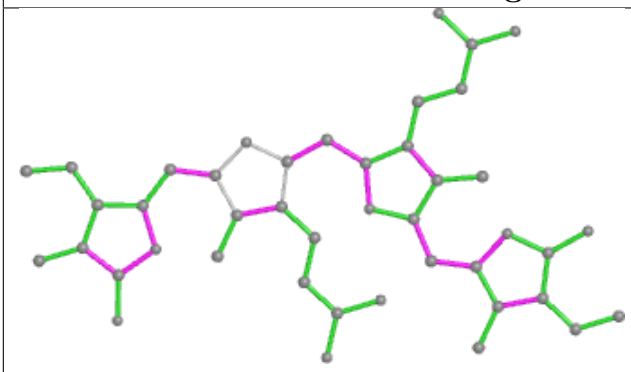


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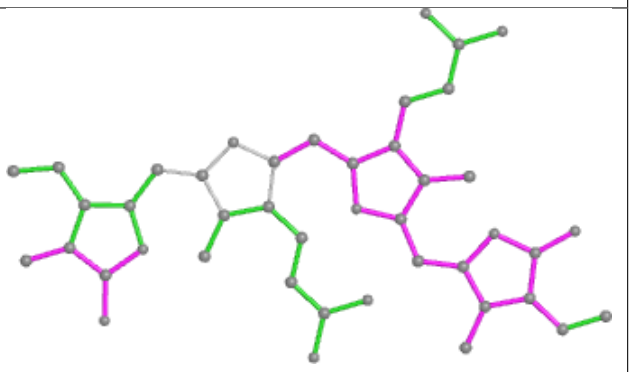


Rings

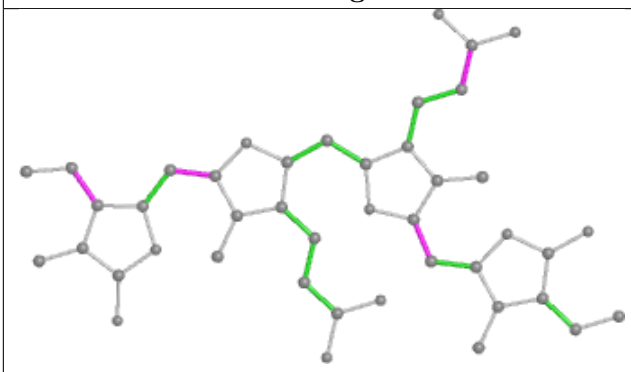
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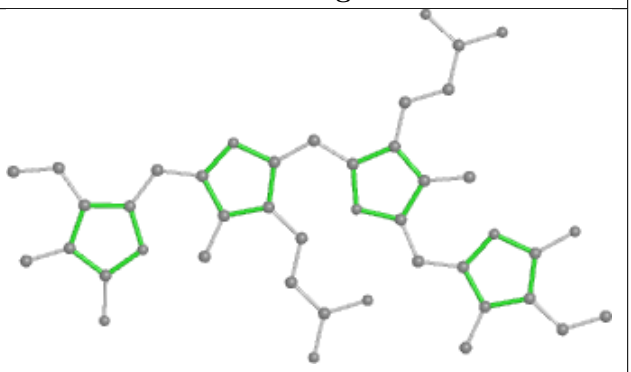
Bond lengths



Bond angles

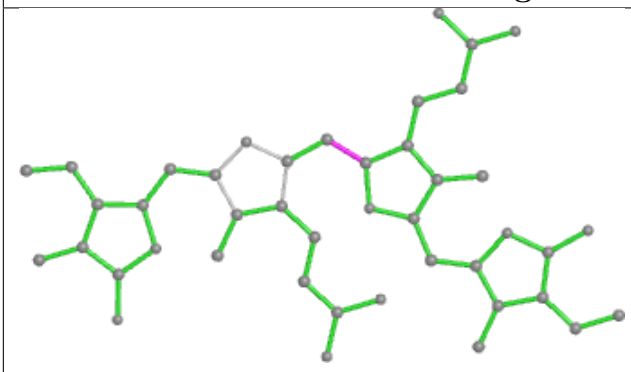


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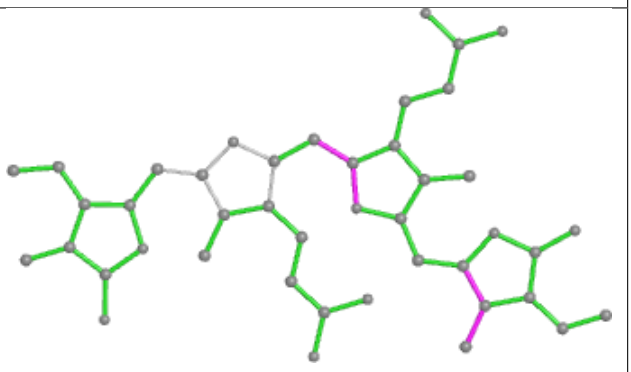


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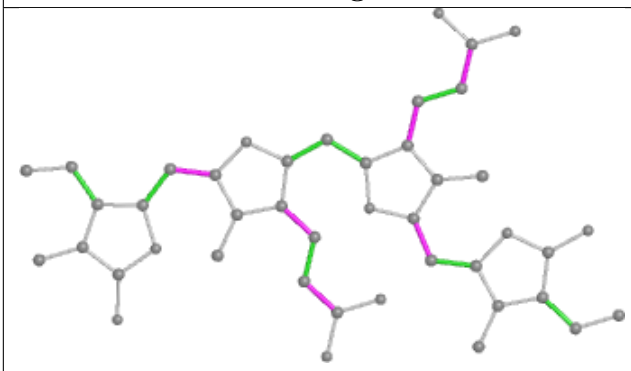
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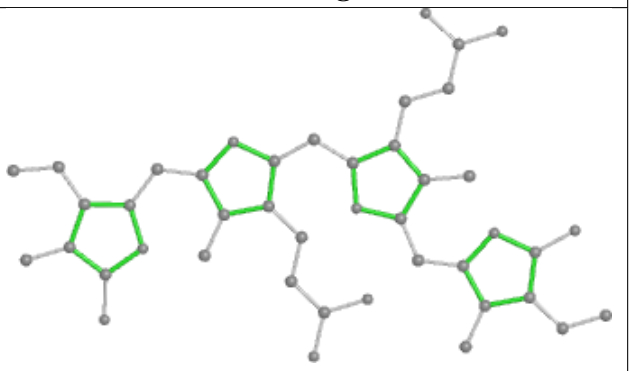
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Bond angles

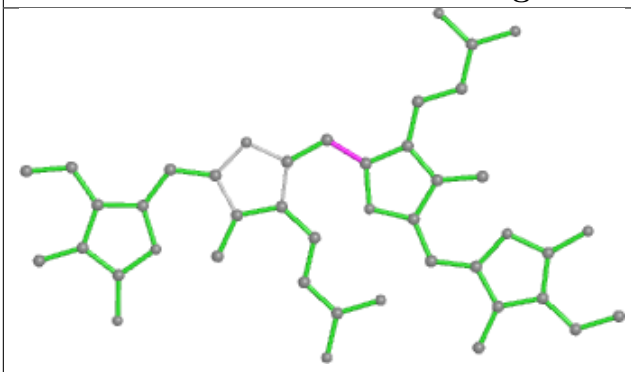


Torsions

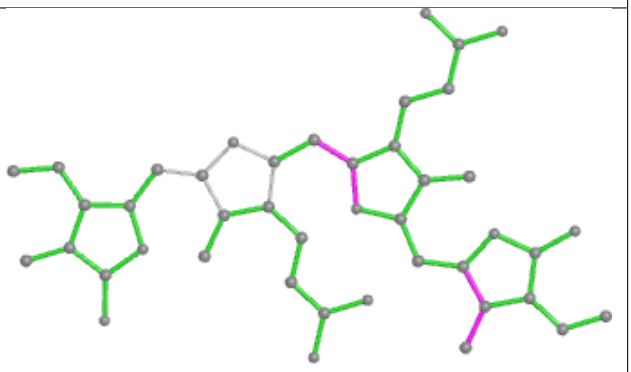


Rings

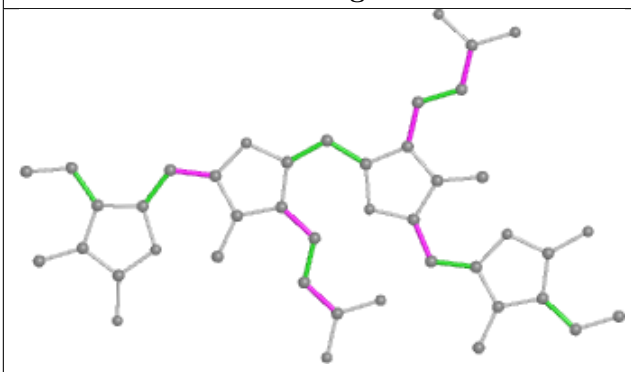
Ligand CYC X6 202



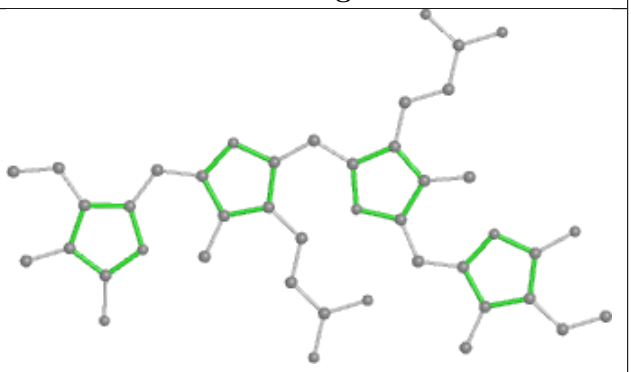
Bond lengths



Bond angles

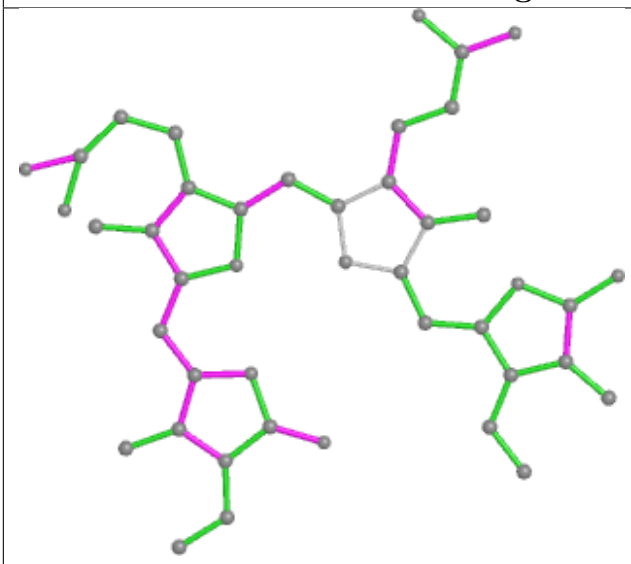


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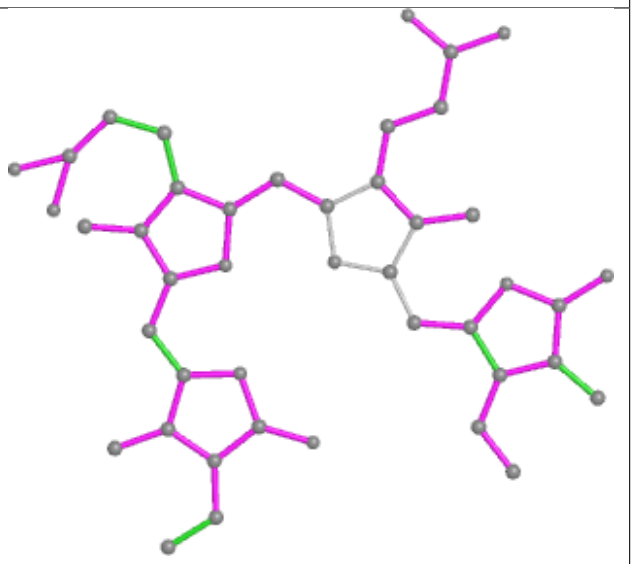


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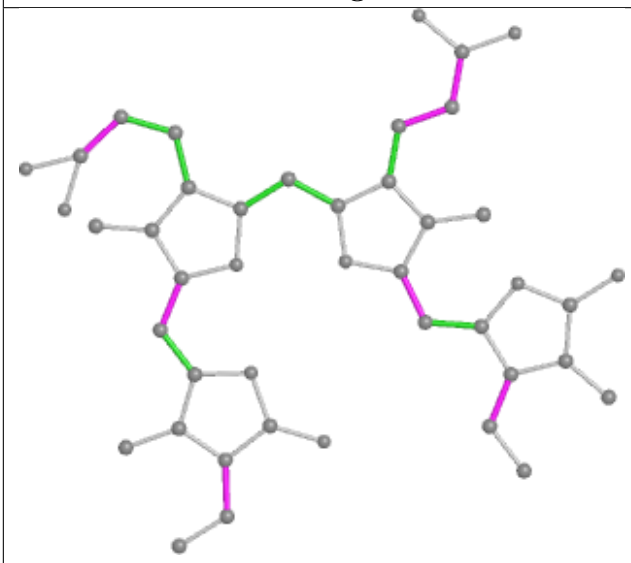
Ligand CYC F5 201



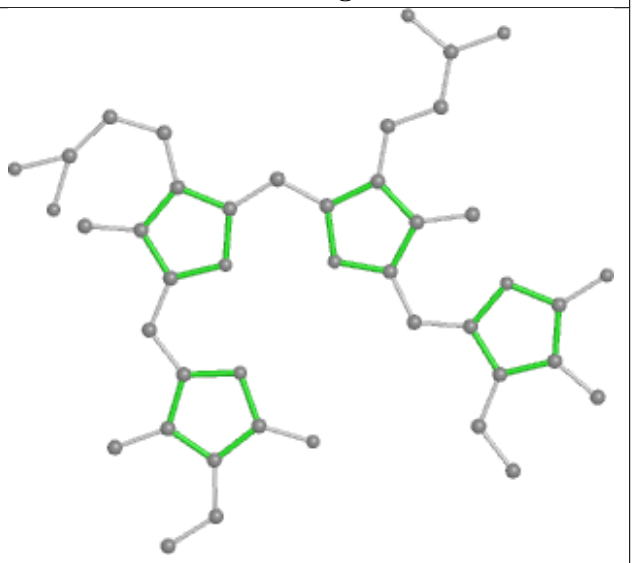
Bond lengths



Bond angles

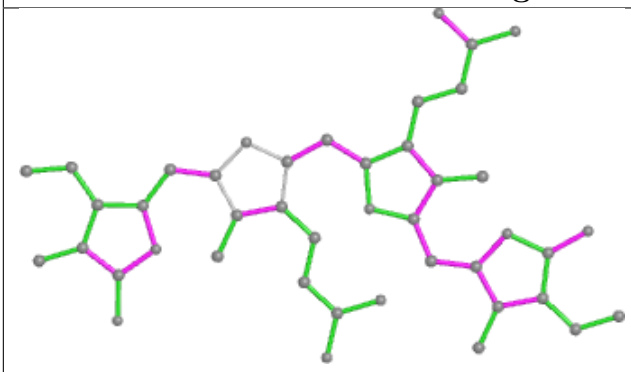


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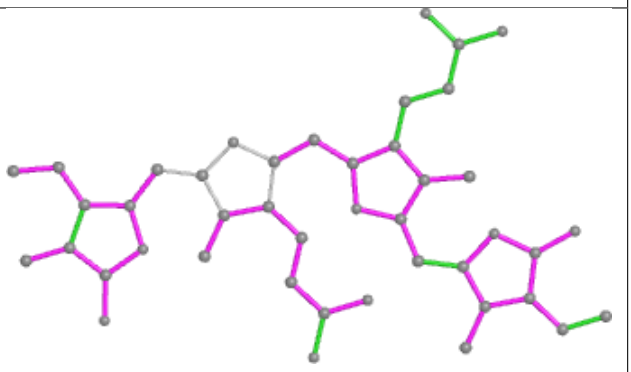


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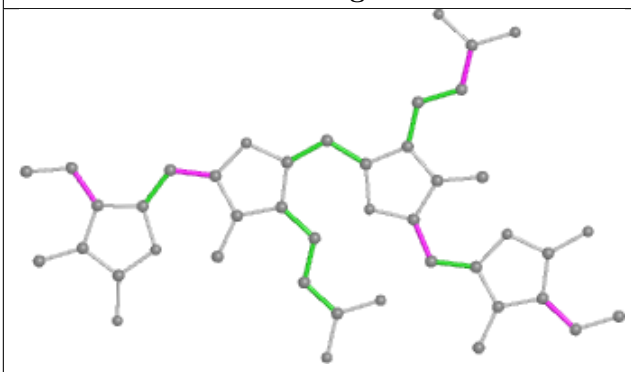
Ligand CYC A4 301



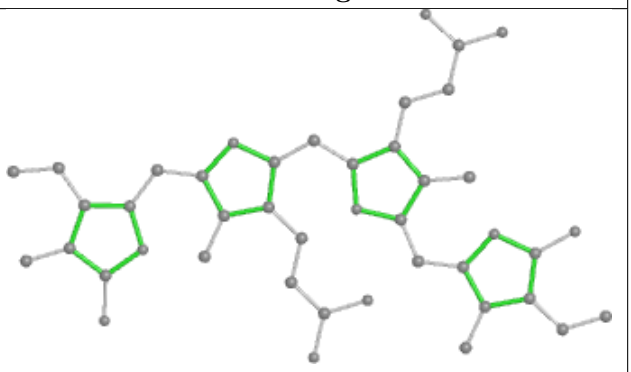
Bond lengths



Bond angles

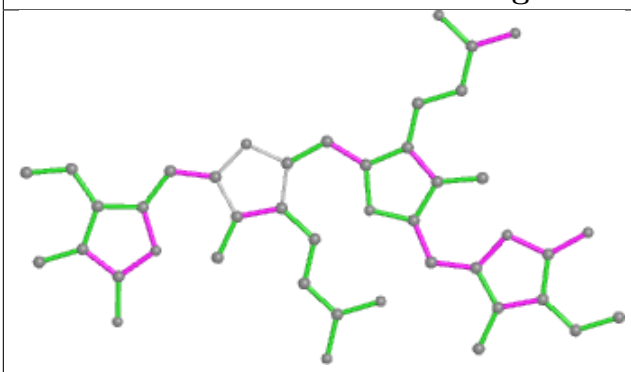


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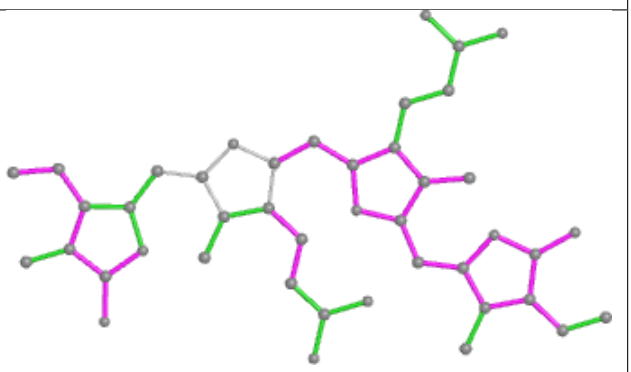


Rings

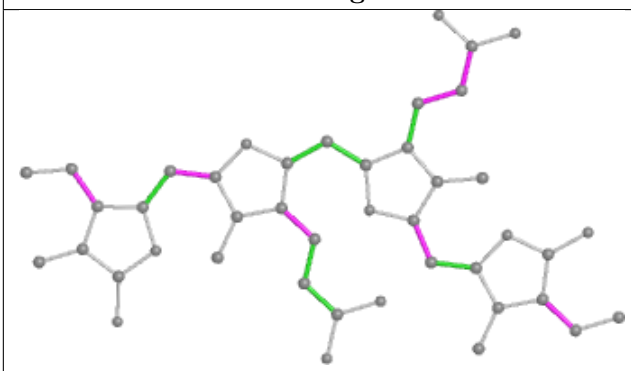
Ligand CYC G8 201



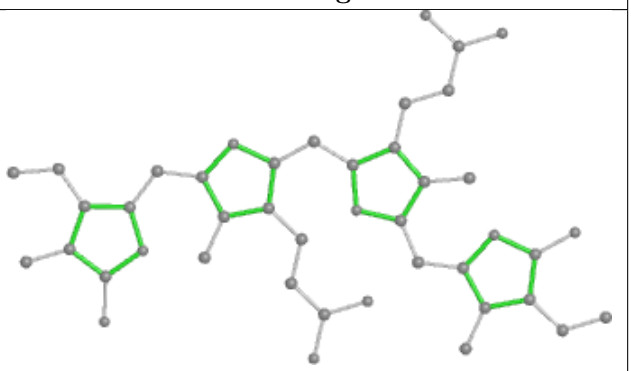
Bond lengths



Bond angles

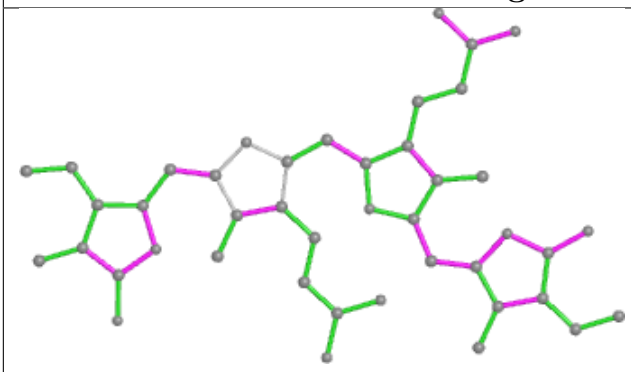


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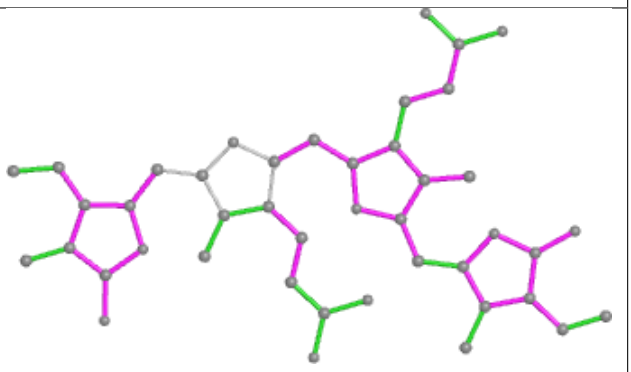


Rings

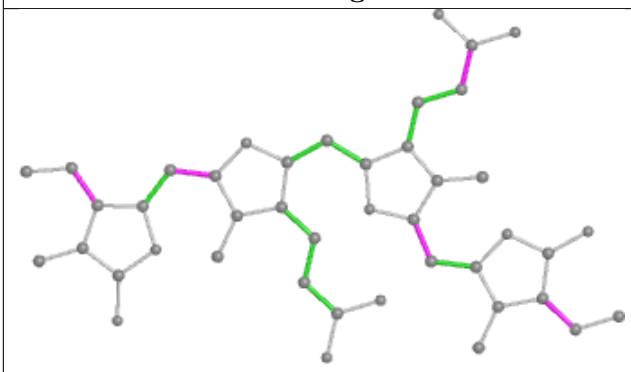
Ligand CYC J7 1001



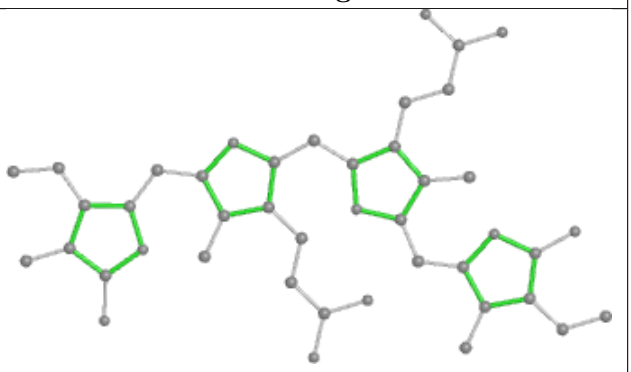
Bond lengths



Bond angles

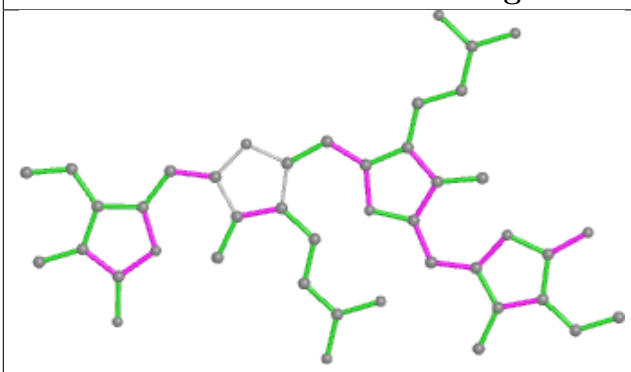


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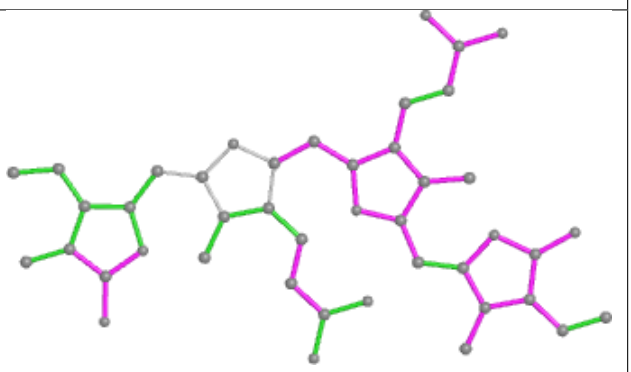


Rings

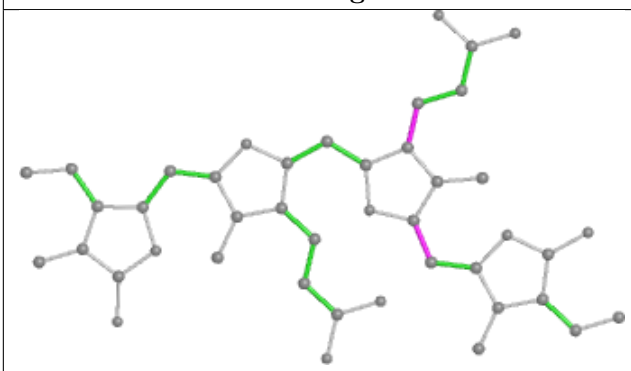
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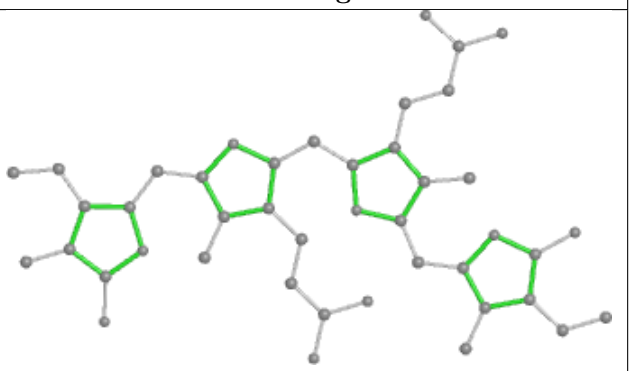
Bond lengths



Bond angles

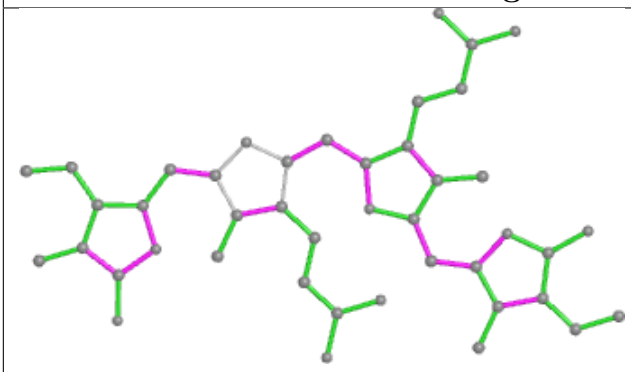


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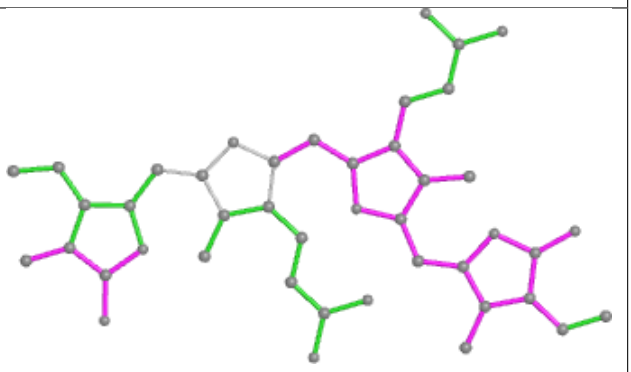


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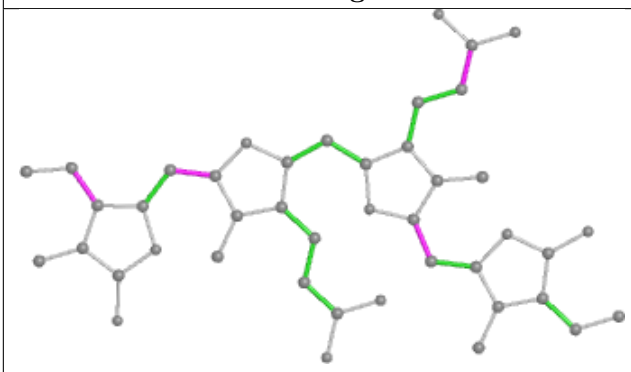
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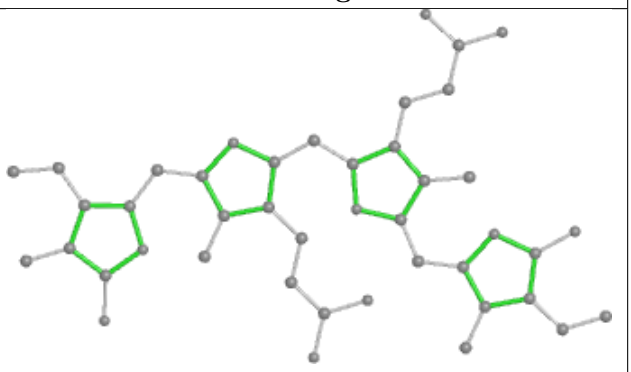
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Bond angles

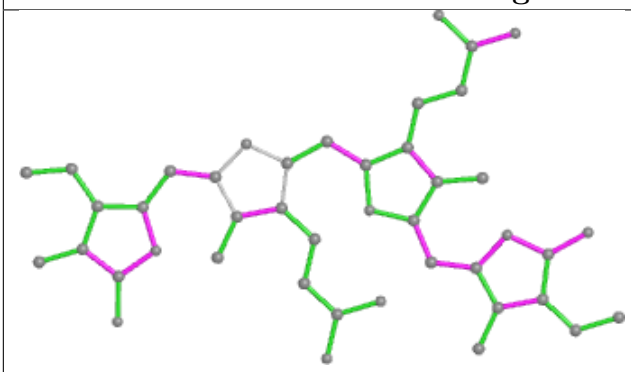


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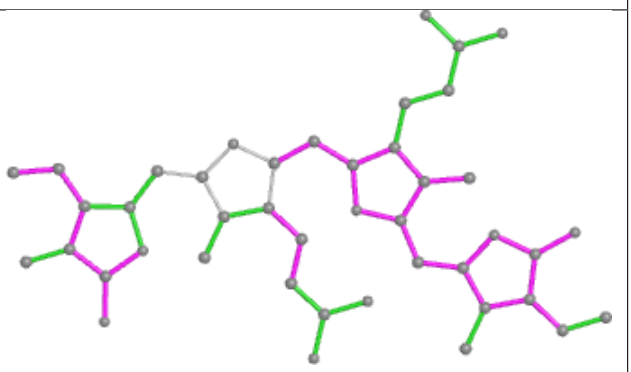


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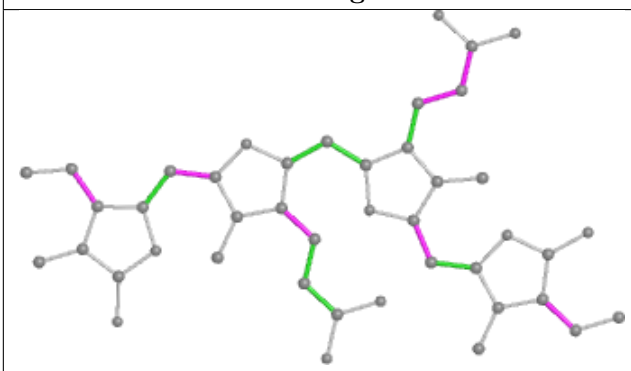
Ligand CYC D4 201



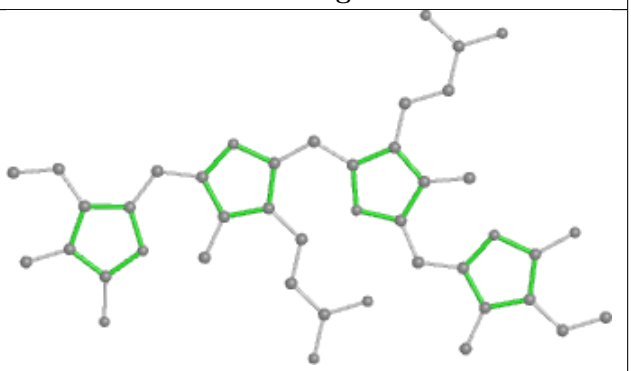
Bond lengths



Bond angles

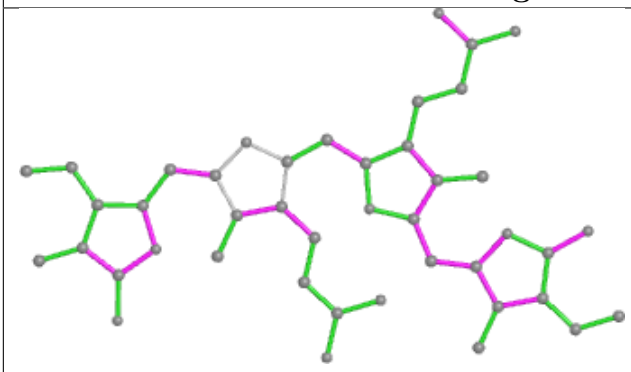


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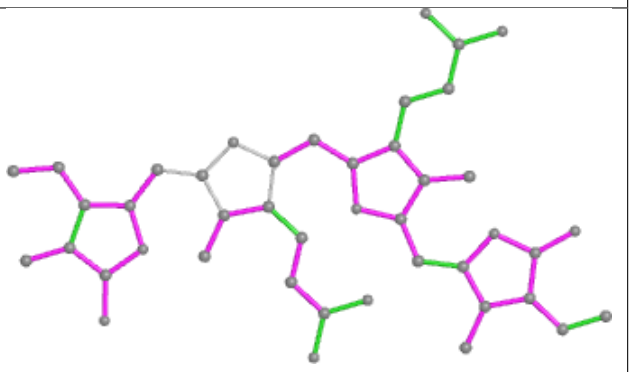


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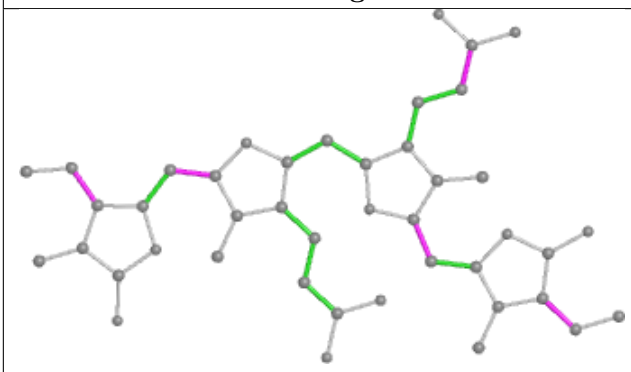
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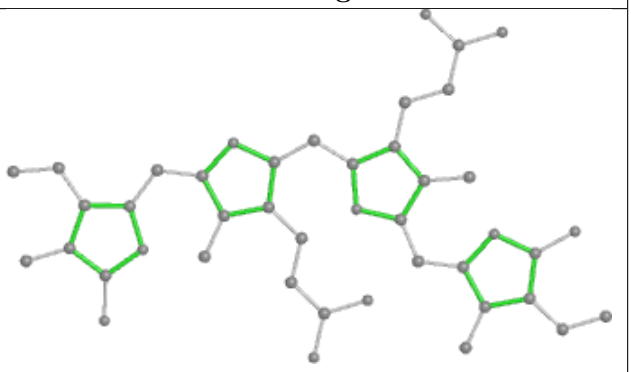
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Bond angles

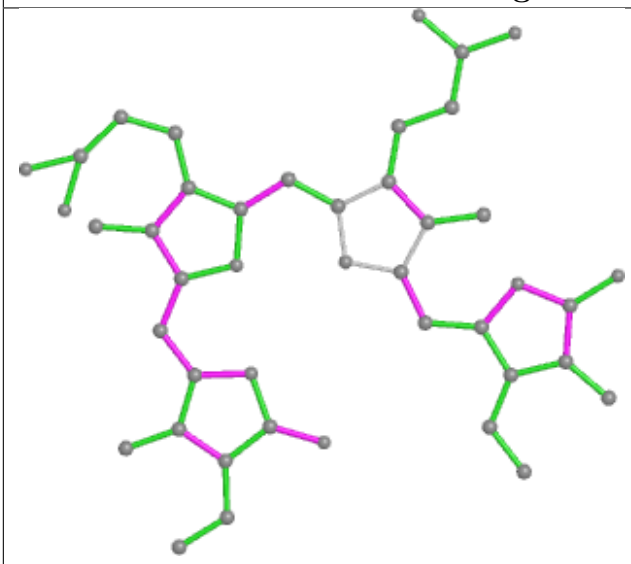


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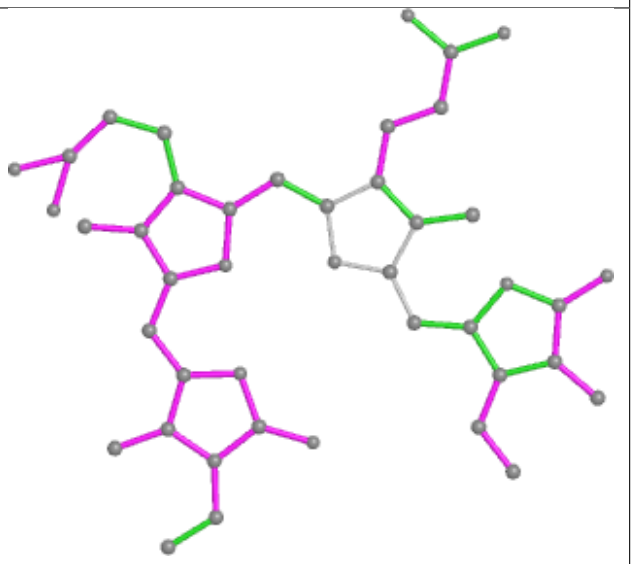


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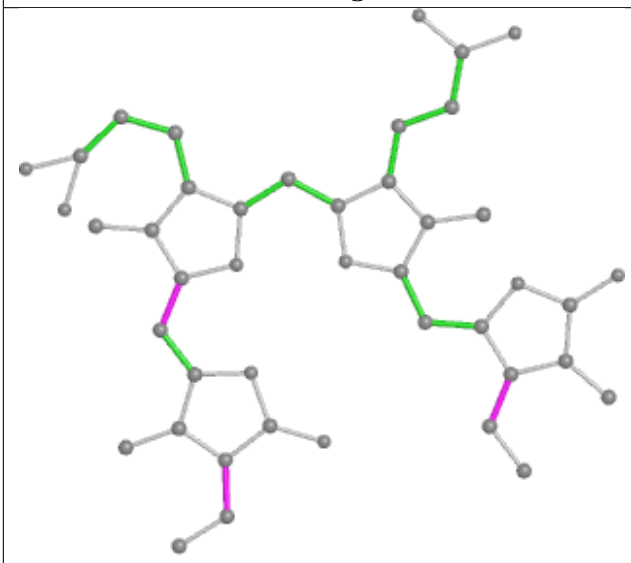
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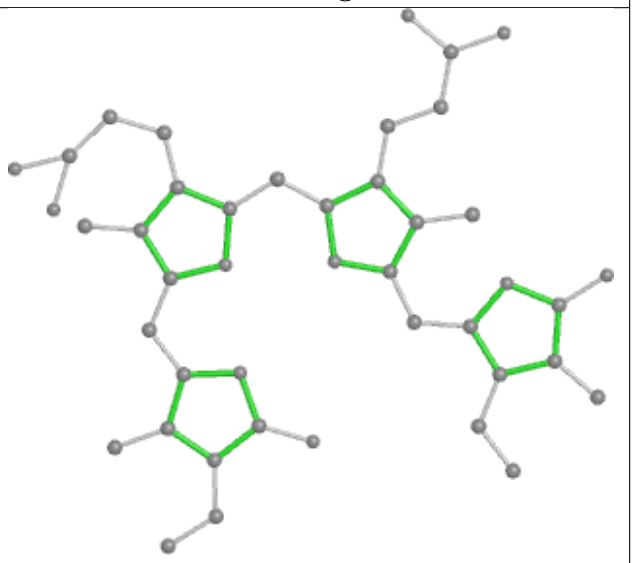
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Bond angles

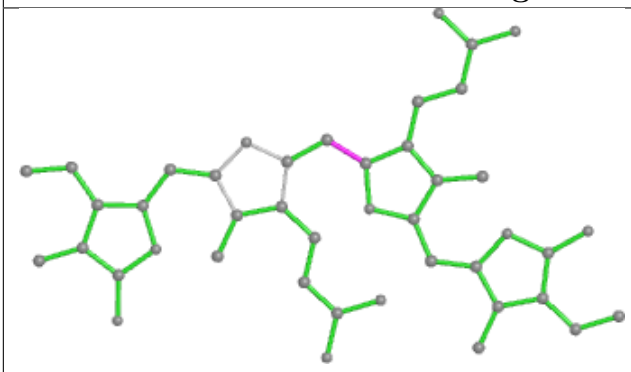


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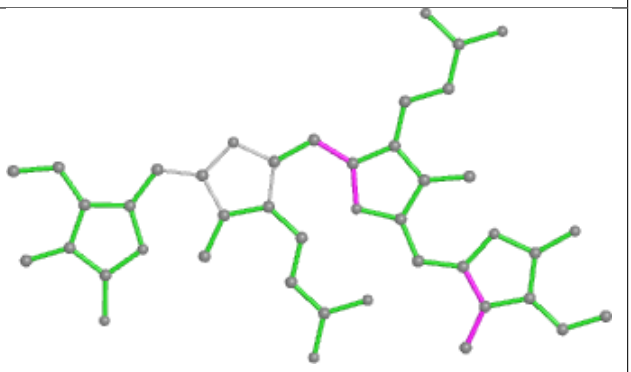


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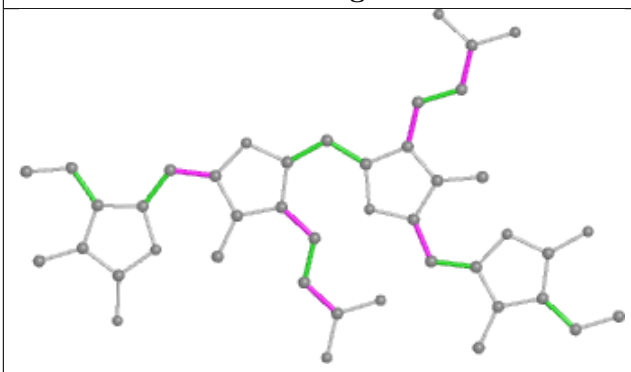
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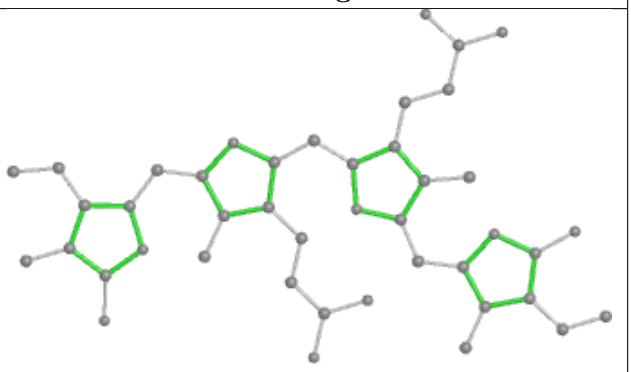
Bond lengths



Bond angles

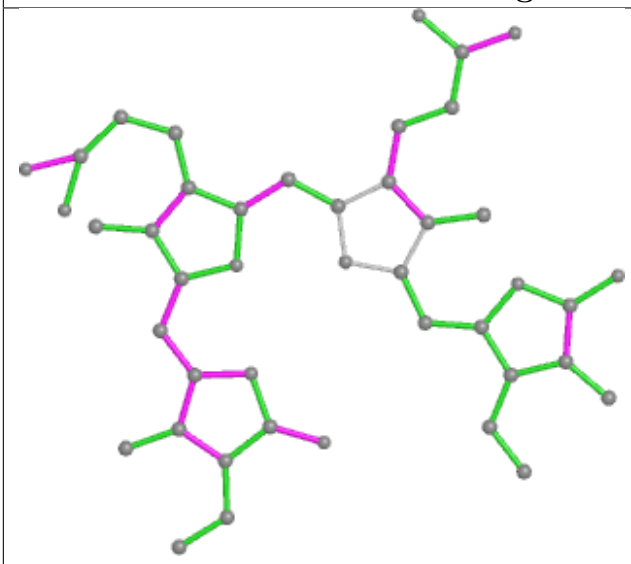


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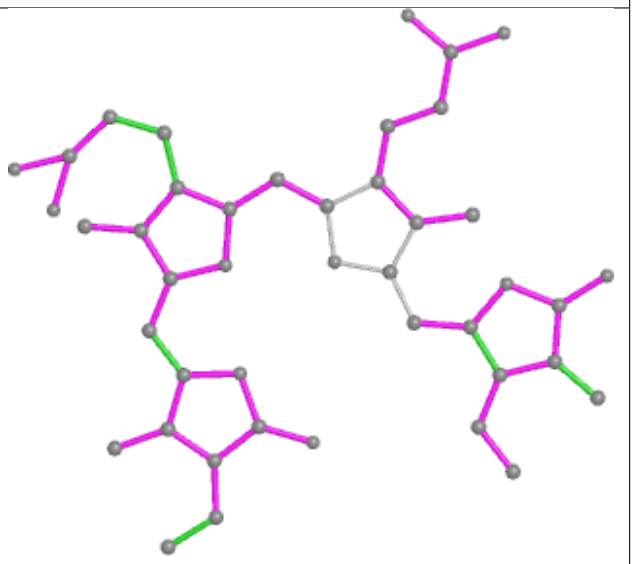


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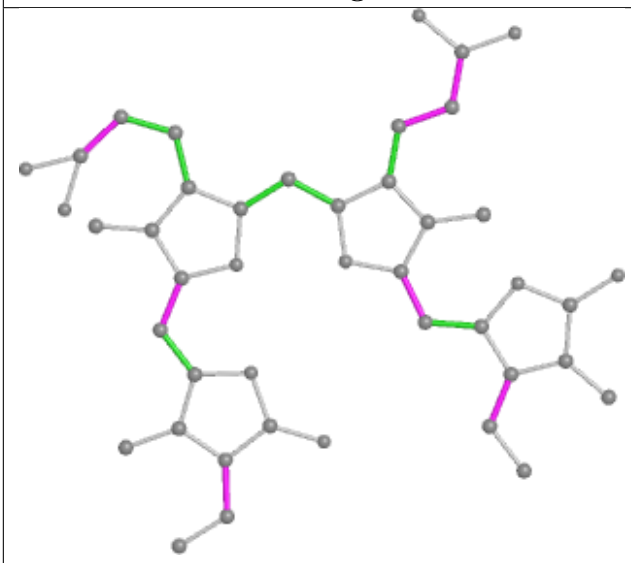
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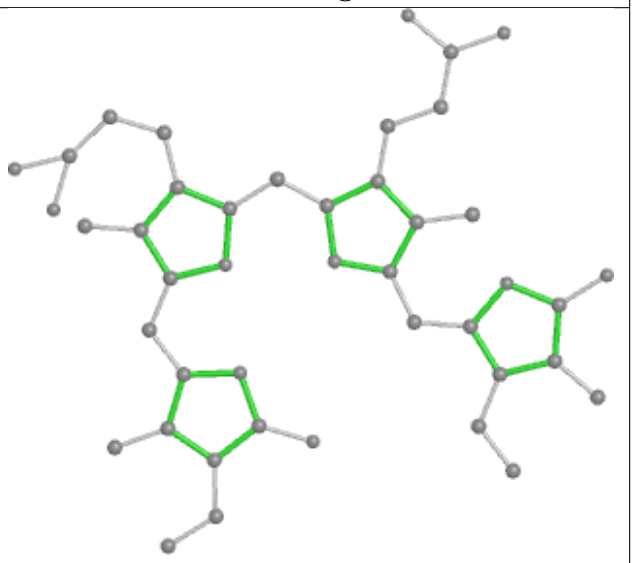
Bond lengths



Bond angles

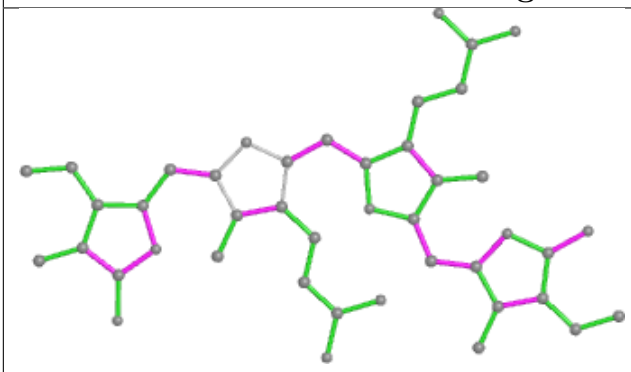


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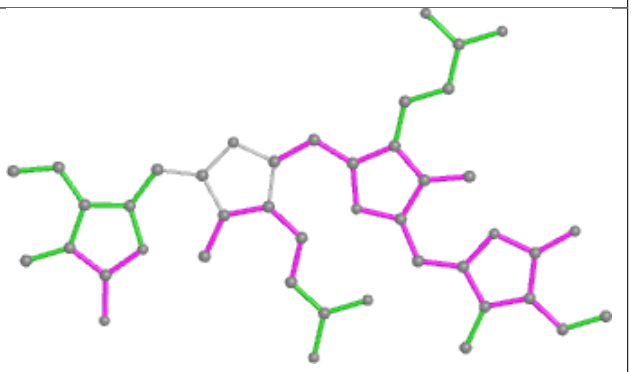


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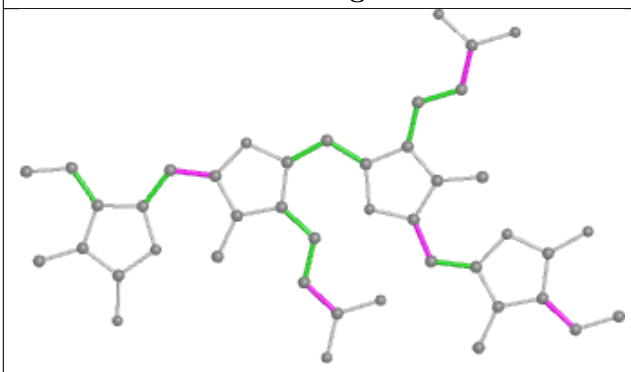
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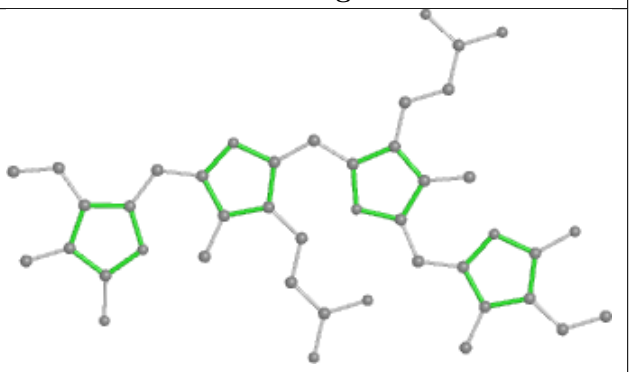
Bond lengths



Bond angles

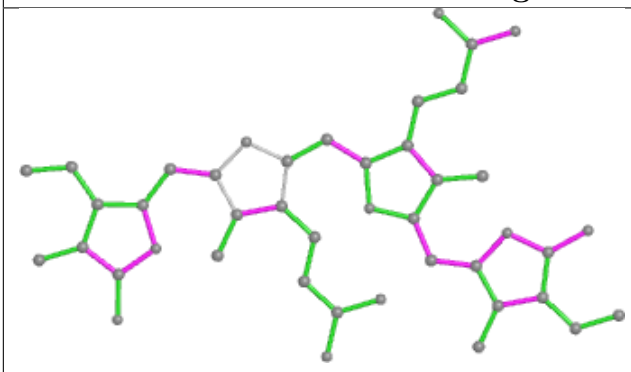


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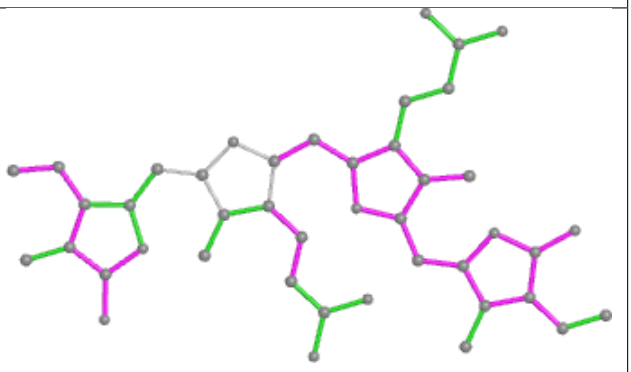


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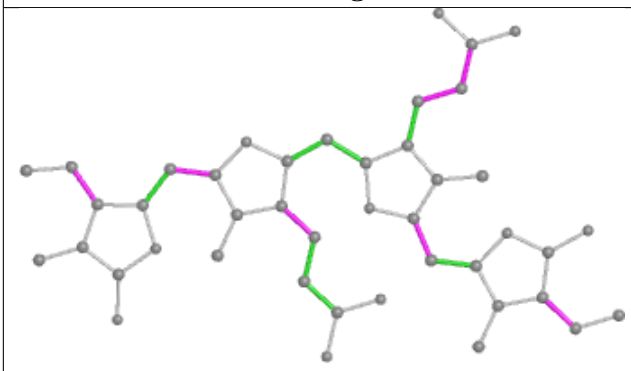
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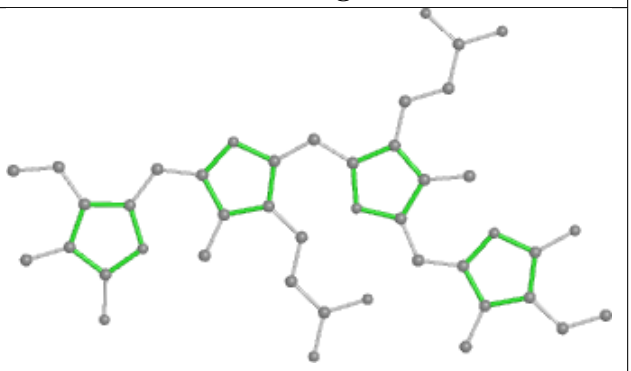
Bond lengths



Bond angles

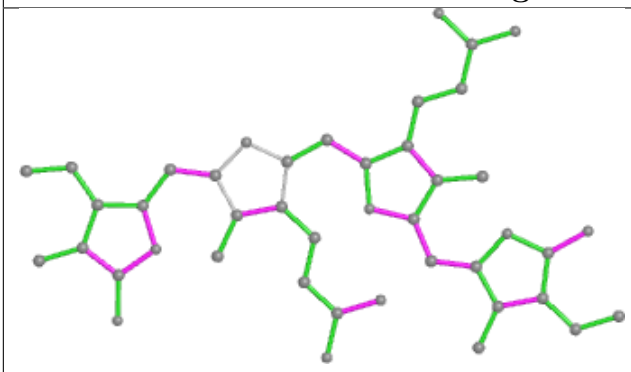


Torsions

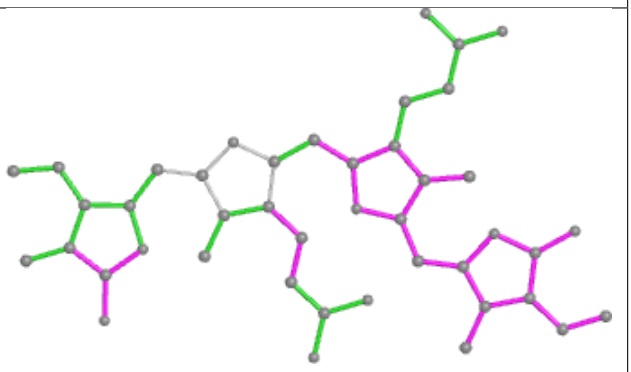


Rings

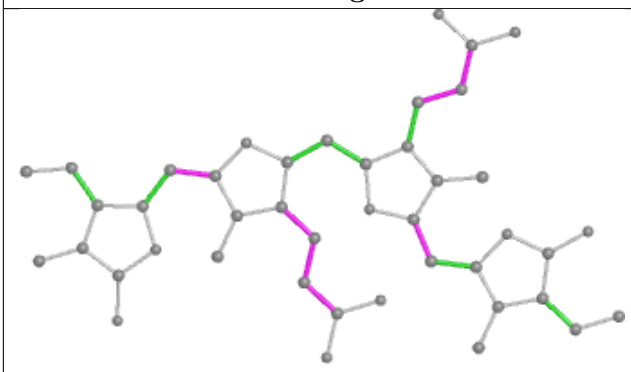
Ligand CYC K5 202



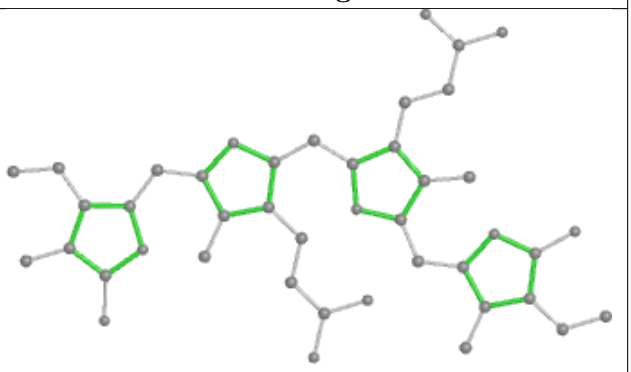
Bond lengths



Bond angles

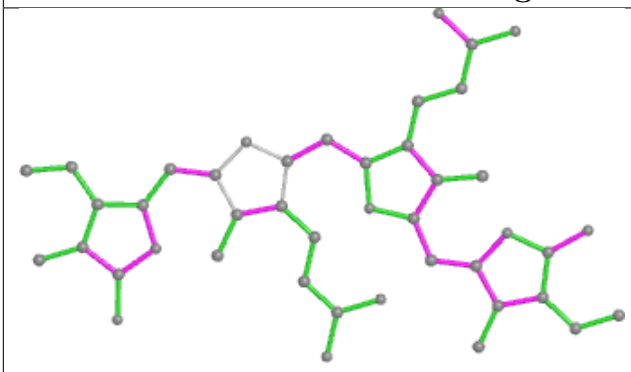


Torsions

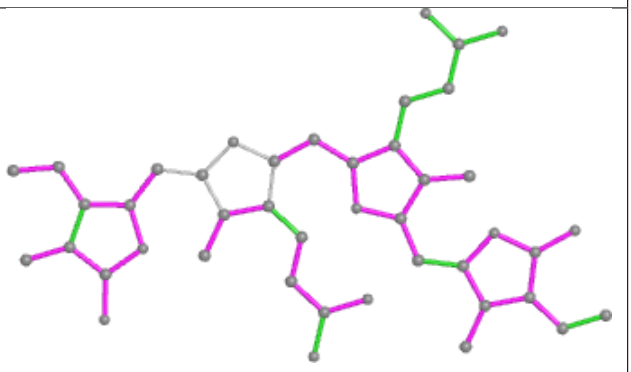


Rings

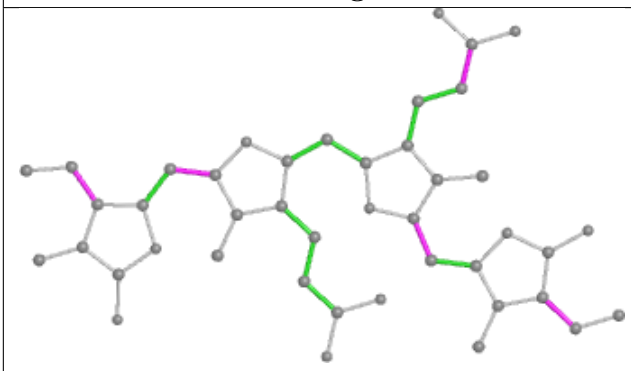
Ligand CYC E8 201



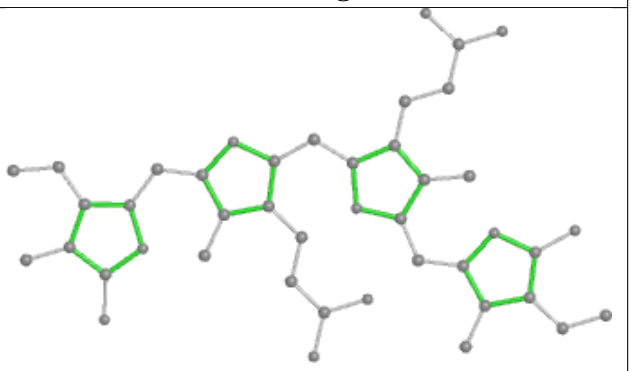
Bond lengths



Bond angles

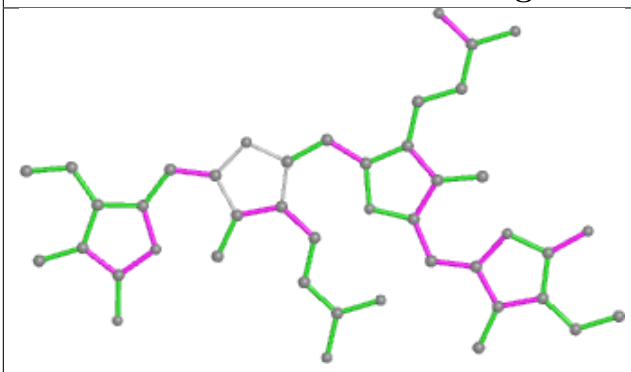


Torsions

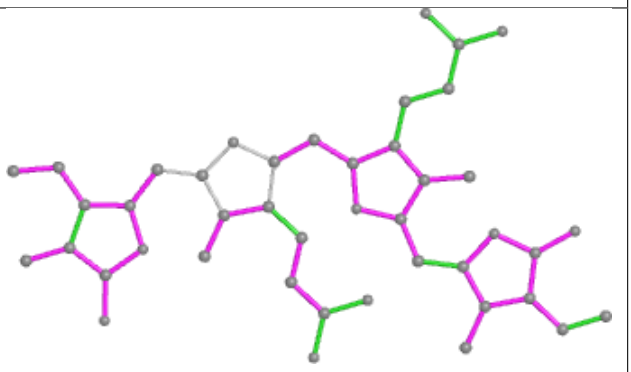


Rings

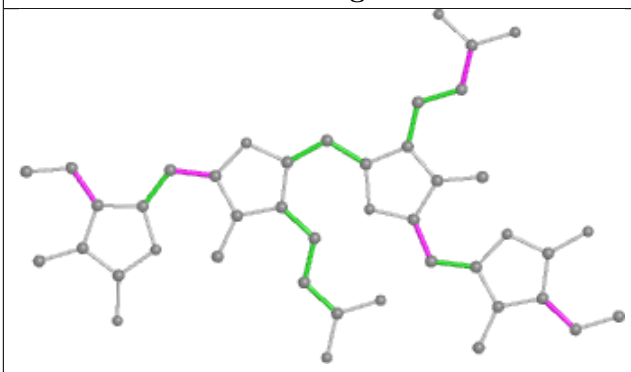
Ligand CYC Z4 201



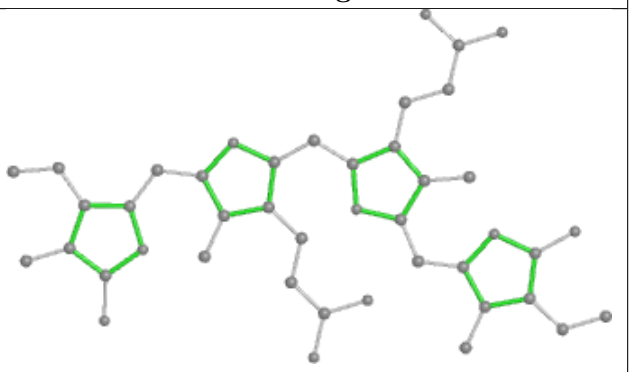
Bond lengths



Bond angles

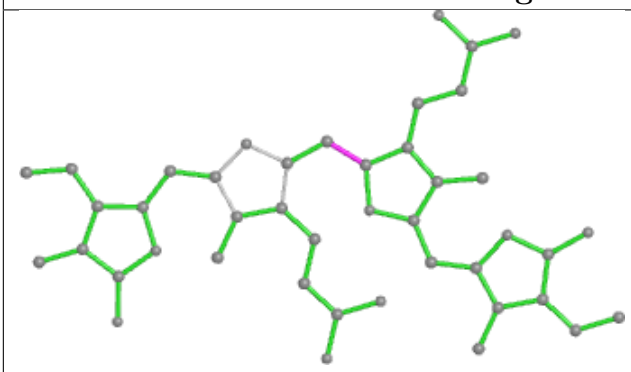


Torsions

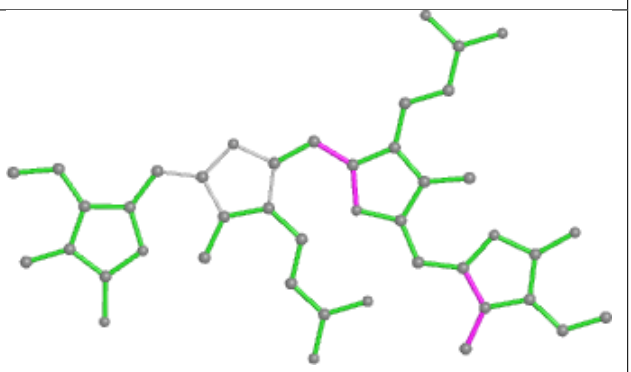


Rings

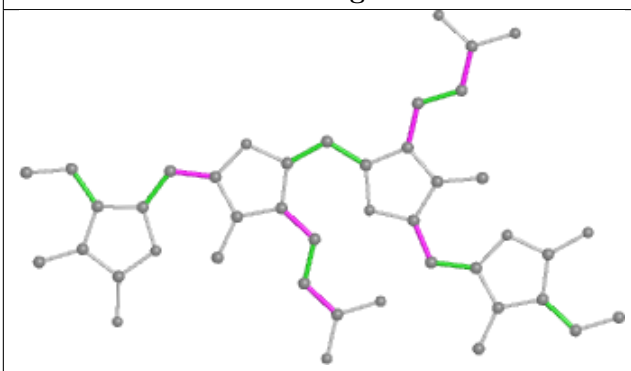
Ligand CYC L8 202



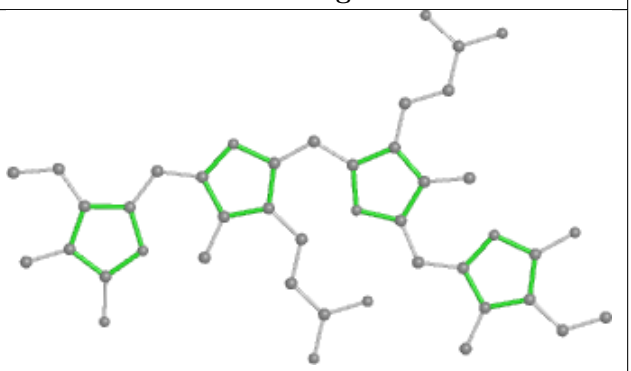
Bond lengths



Bond angles

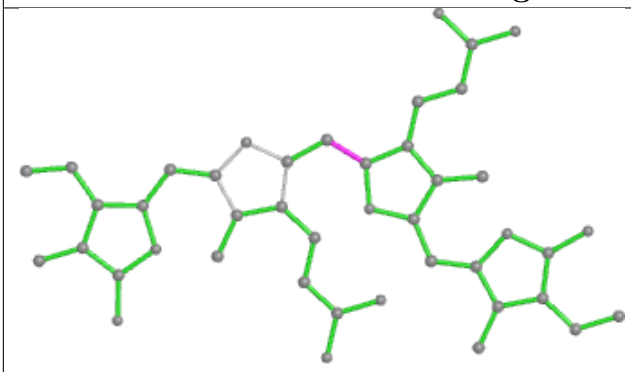


Torsions

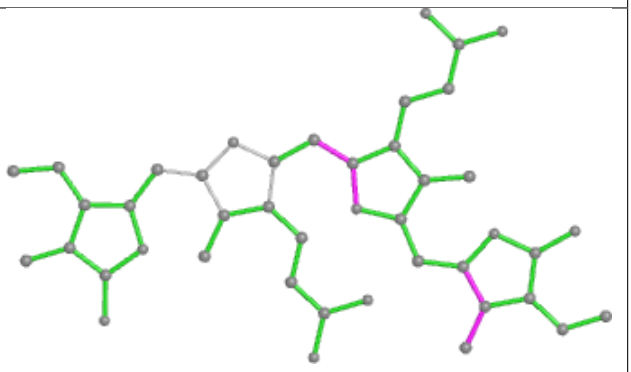


Rings

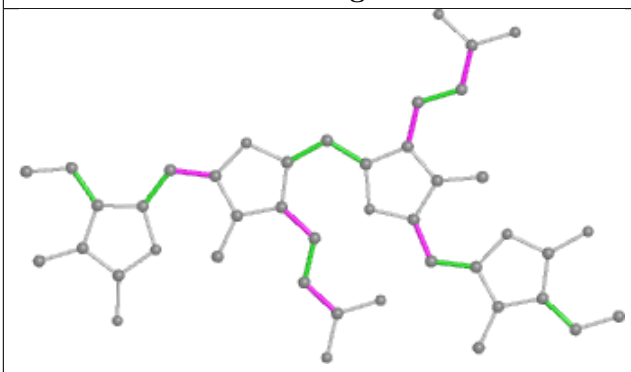
Ligand CYC V2 202



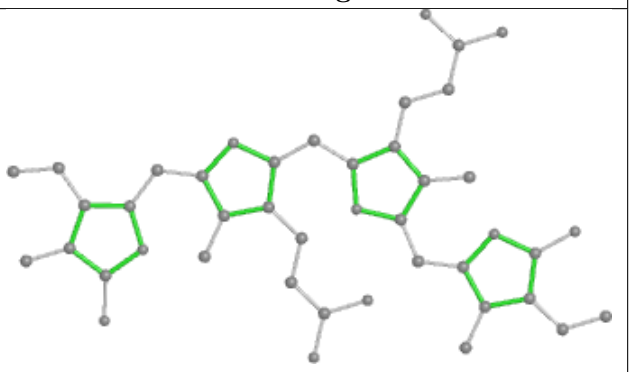
Bond lengths



Bond angles

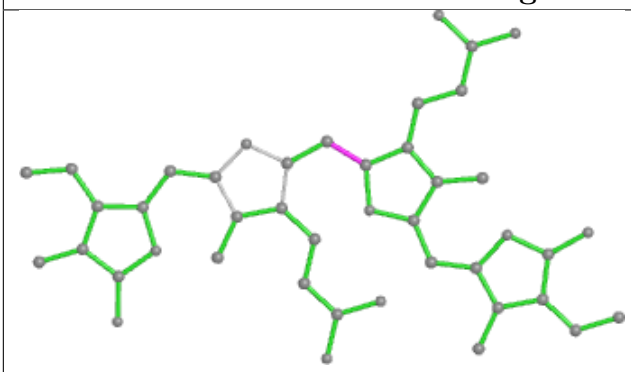


Torsions

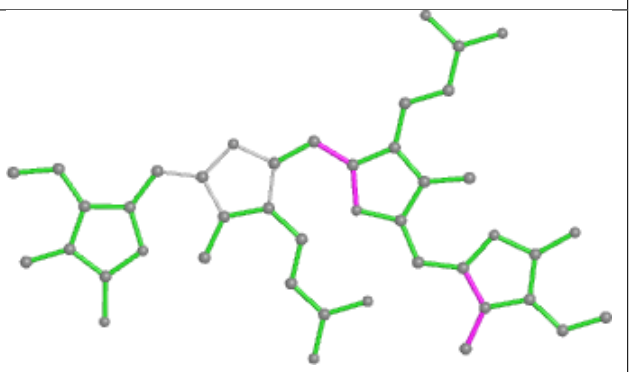


Rings

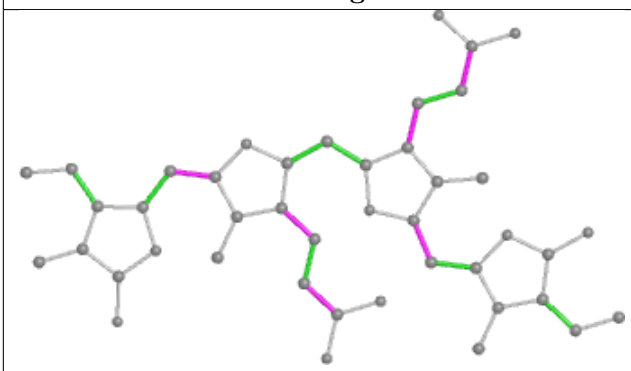
Ligand CYC I2 202



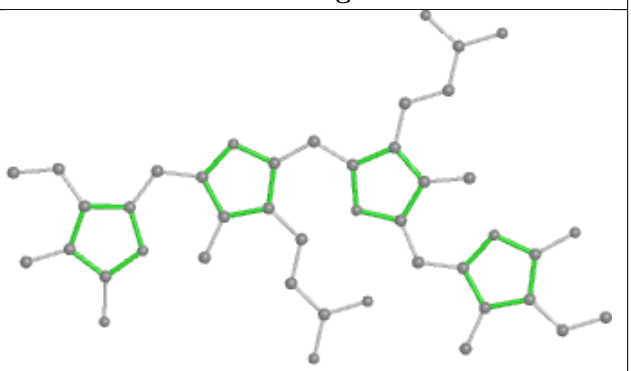
Bond lengths



Bond angles

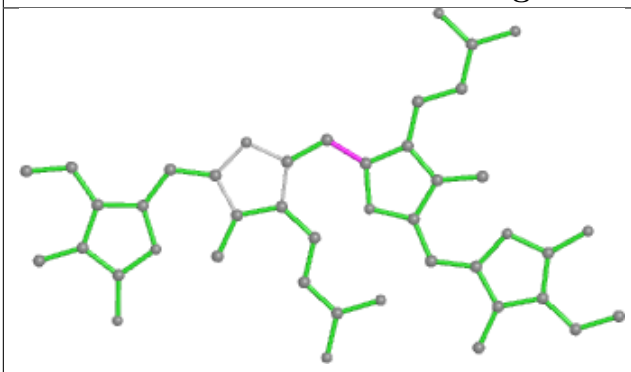


Torsions

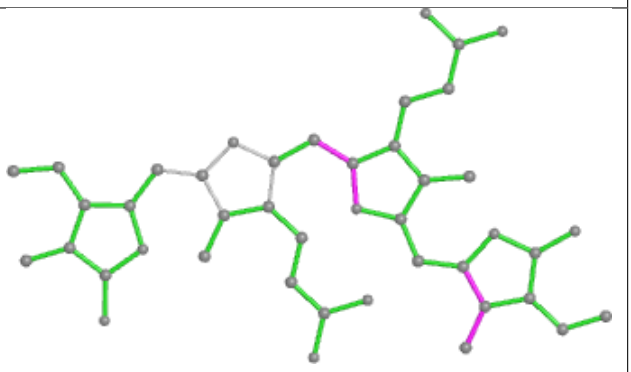


Rings

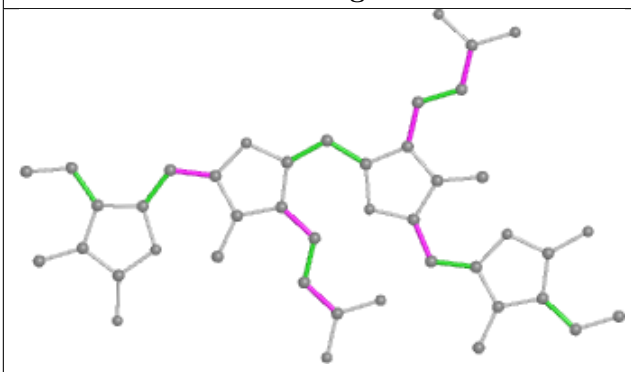
Ligand CYC R2 201



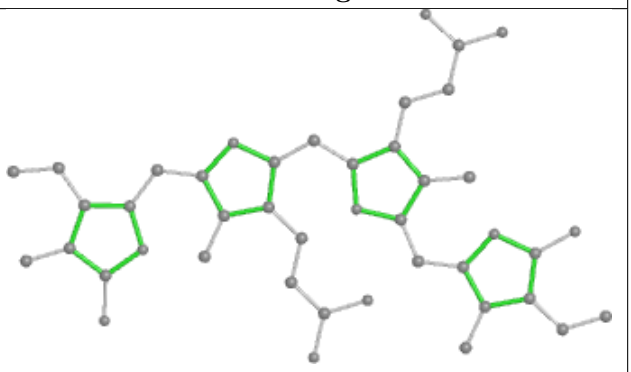
Bond lengths



Bond angles

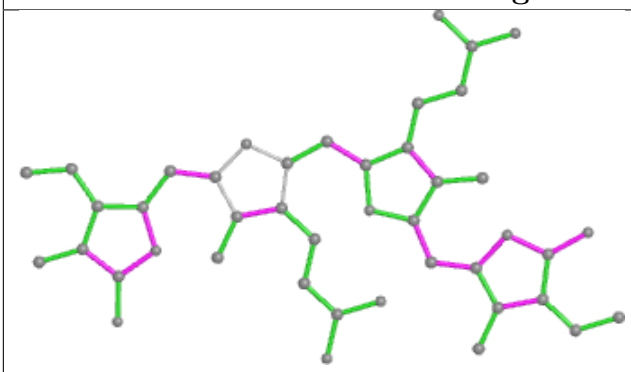


Torsions

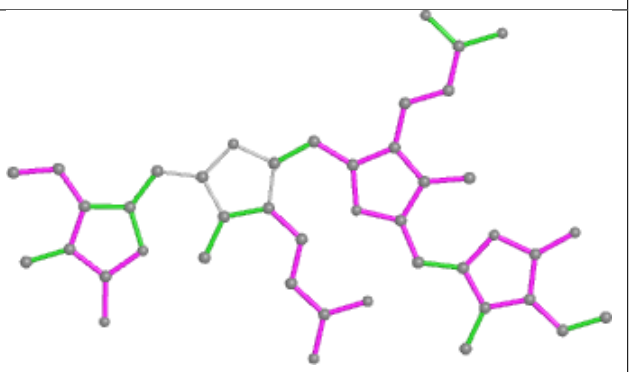


Rings

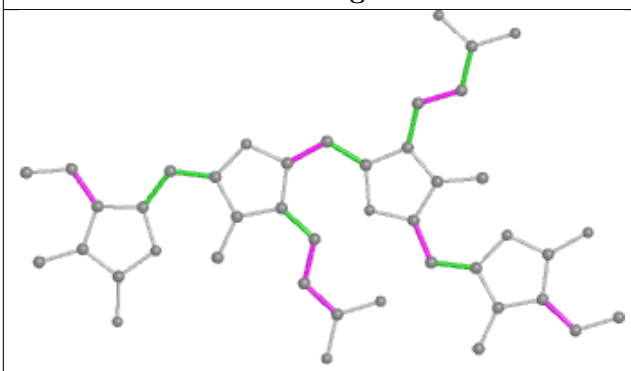
Ligand CYC H2 201



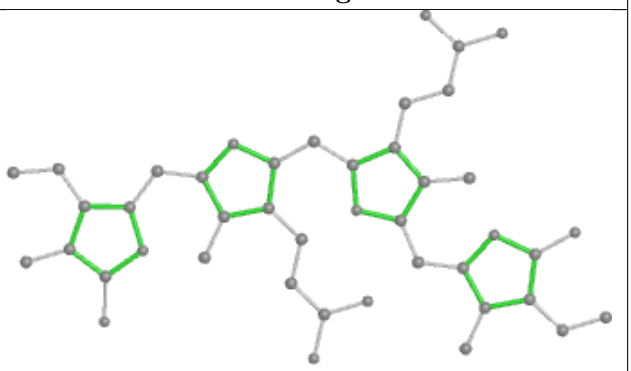
Bond lengths



Bond angles

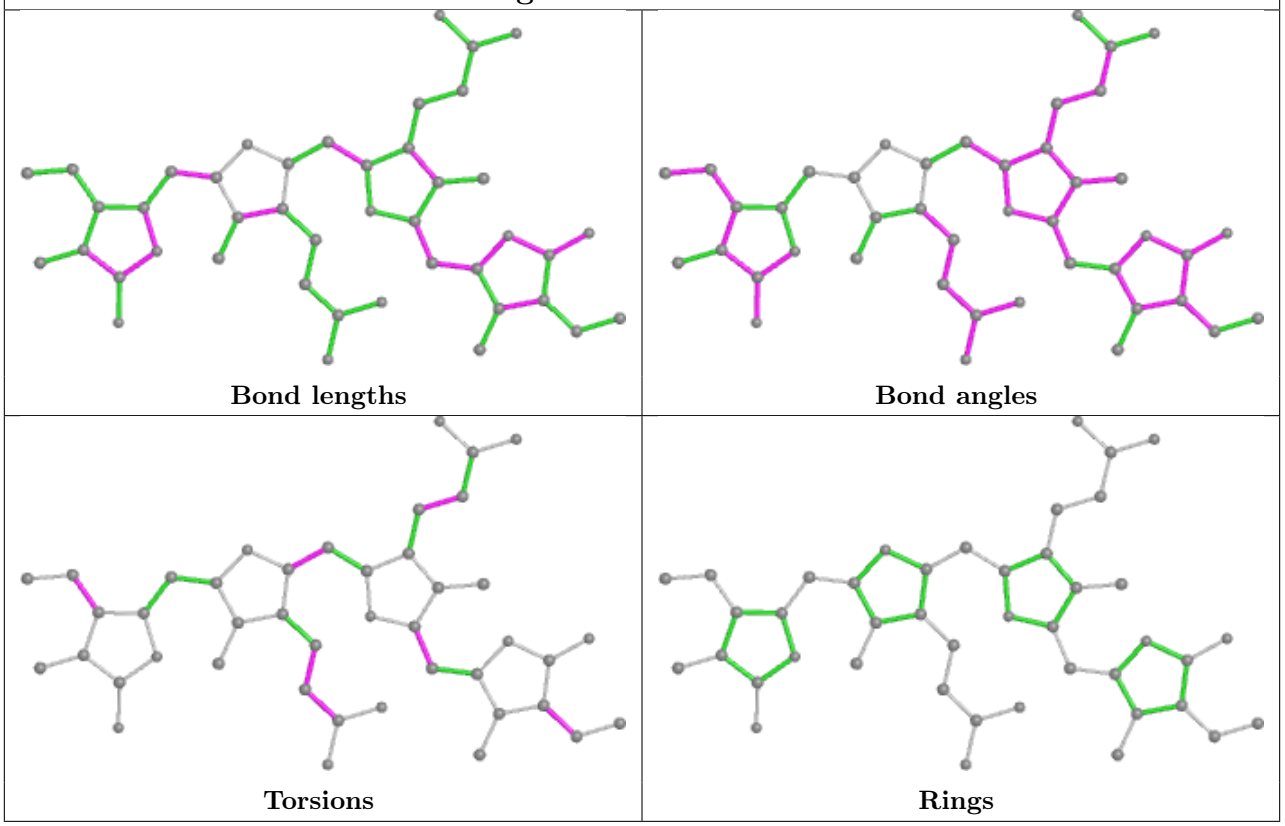


Torsions



Rings

Ligand CYC L6 201



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.

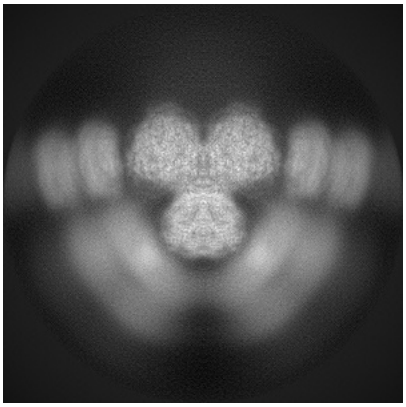
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-31373. These allow visual inspection of the internal detail of the map and identification of artifacts.

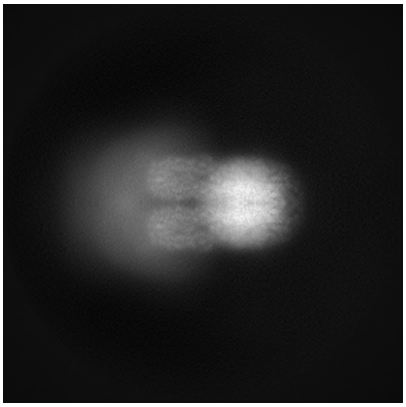
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

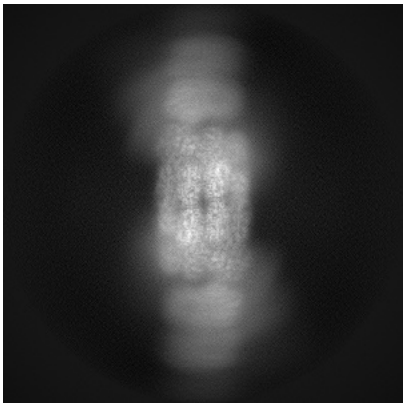
6.1.1 Primary map



X



Y

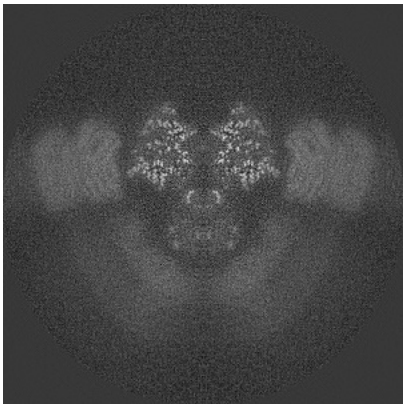


Z

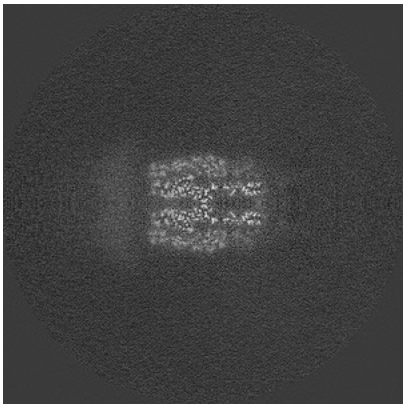
The images above show the map projected in three orthogonal directions.

6.2 Central slices

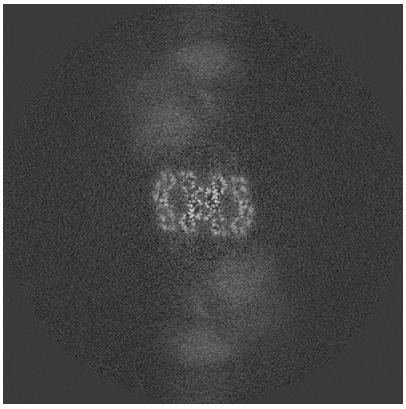
6.2.1 Primary map



X Index: 250



Y Index: 250

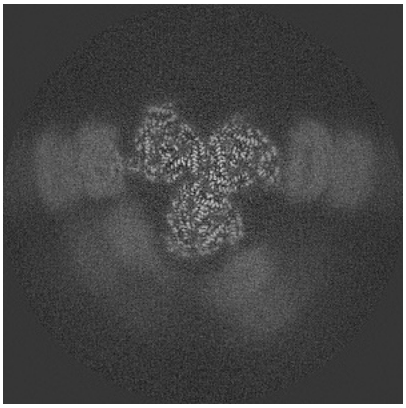


Z Index: 250

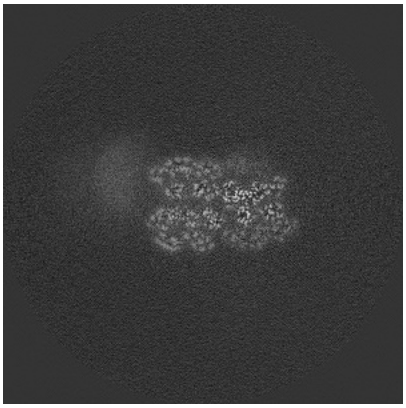
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

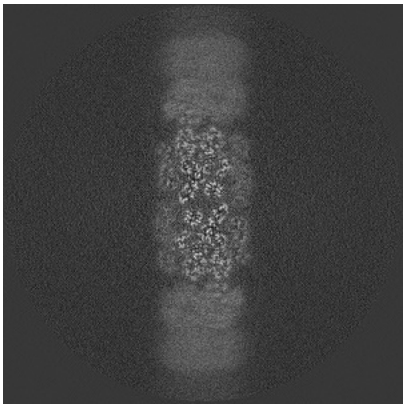
6.3.1 Primary map



X Index: 265



Y Index: 272

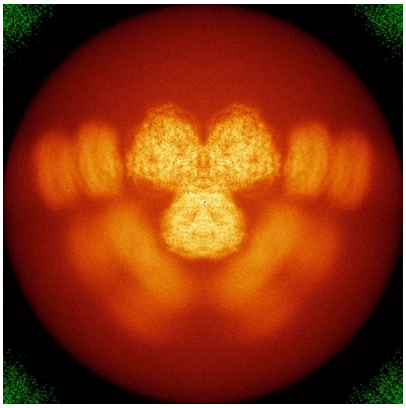


Z Index: 294

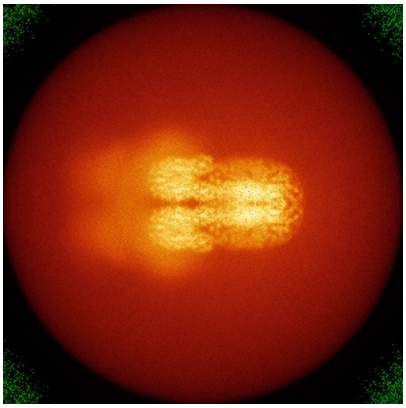
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

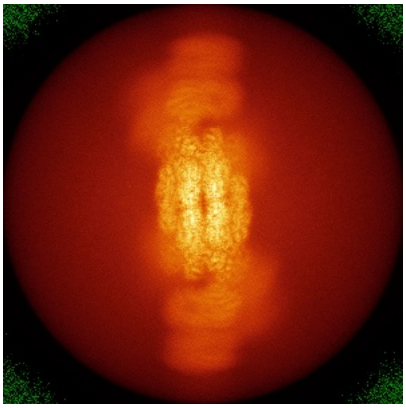
6.4.1 Primary map



X



Y

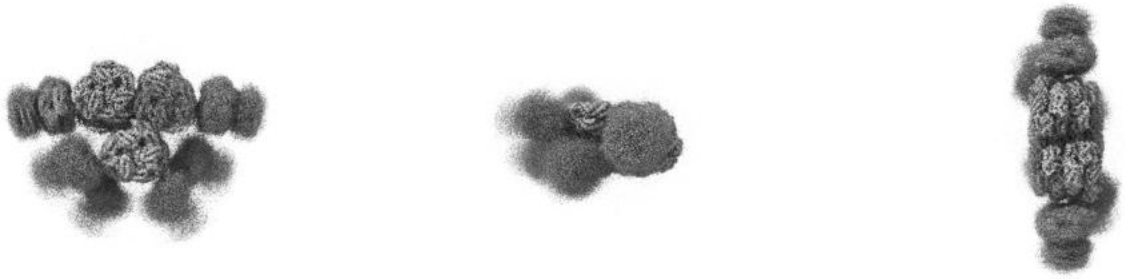


Z

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 0.0167. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

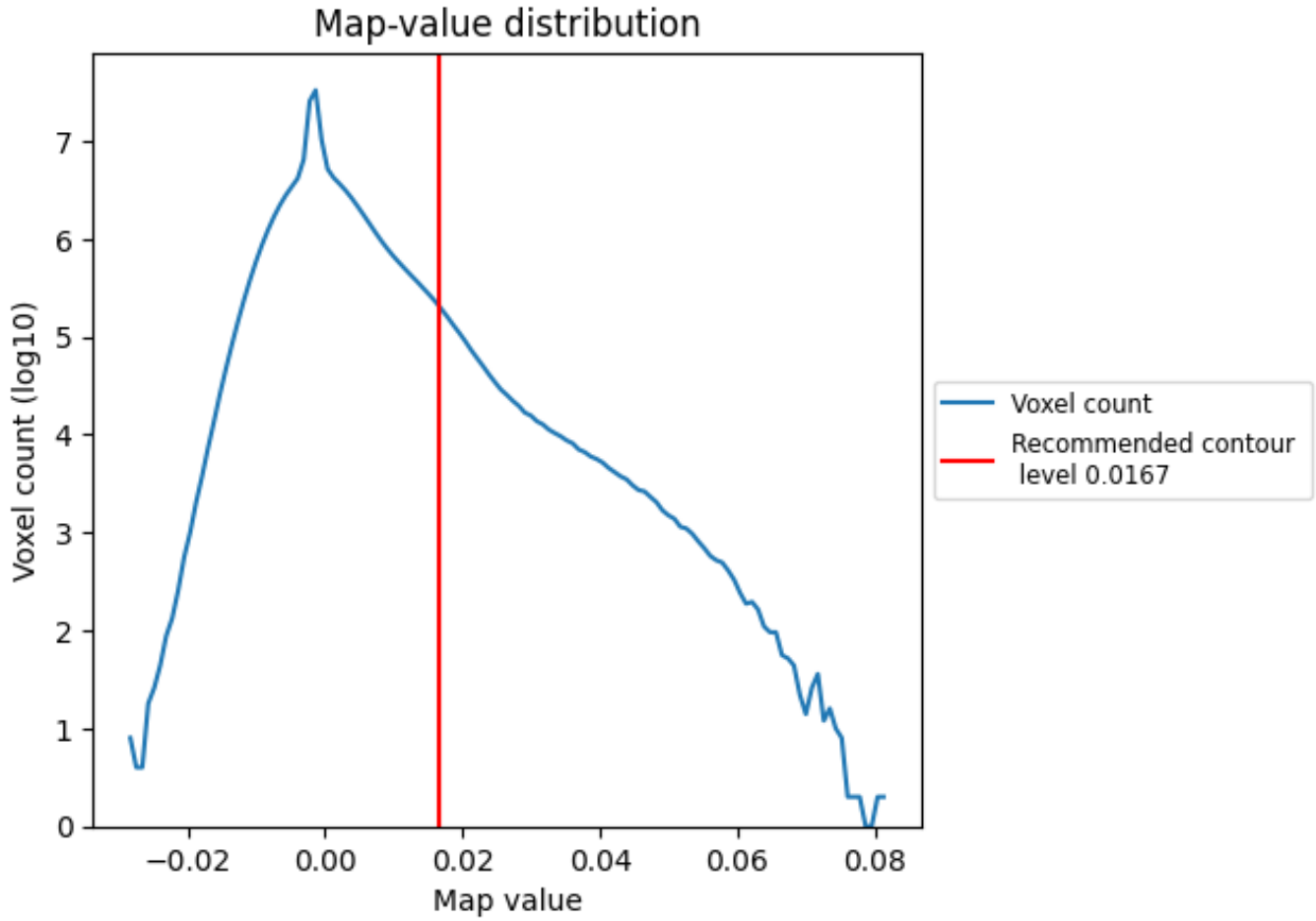
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

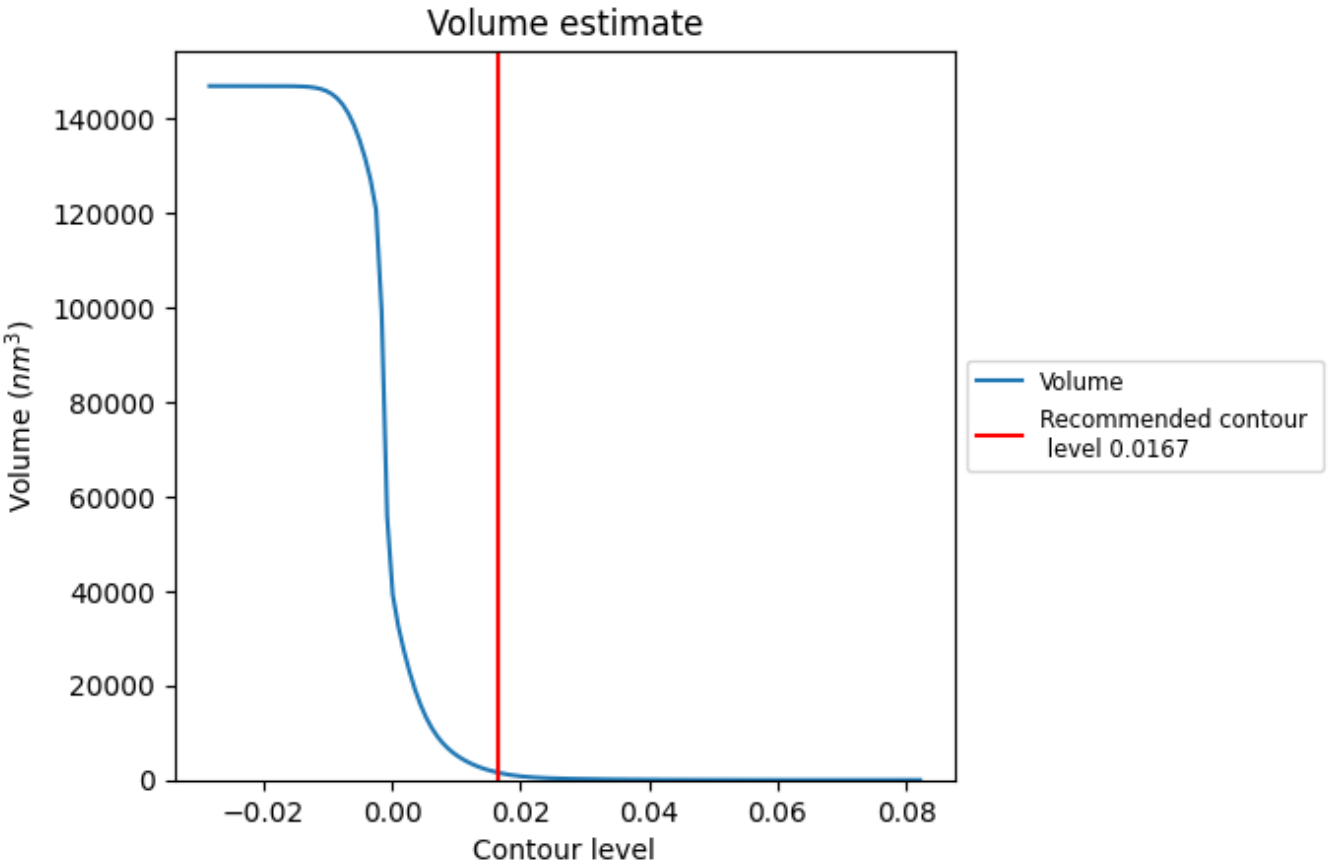
This section contains the results of statistical analysis of the map.

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.

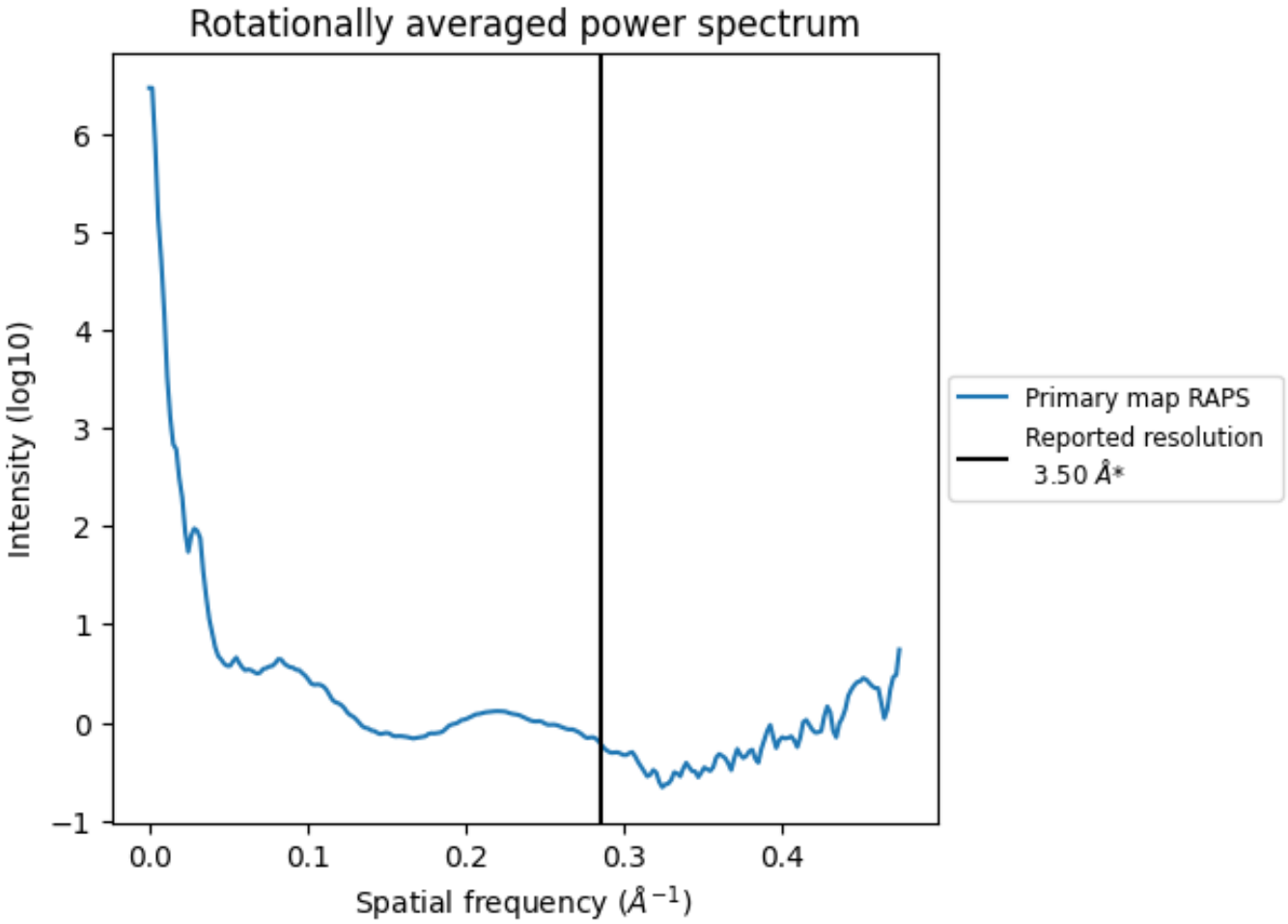
7.2 Volume estimate



The volume at the recommended contour level is 1508 nm^3; this corresponds to an approximate mass of 1362 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 0.286 $Å^{-1}$

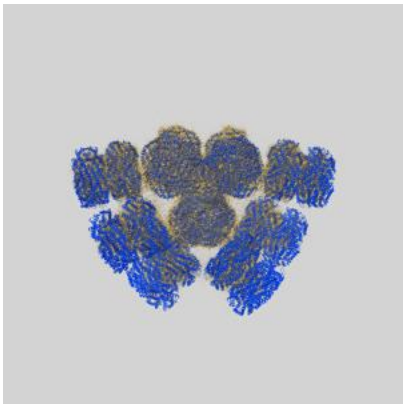
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

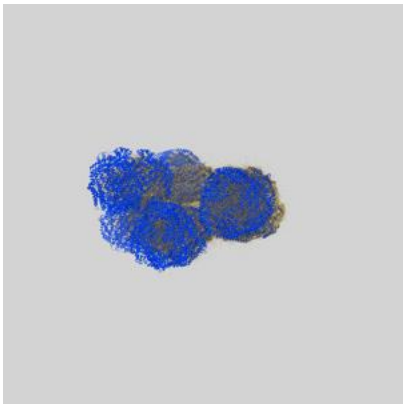
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-31373 and PDB model 7EXT. Per-residue inclusion information can be found in section 3 on page 44.

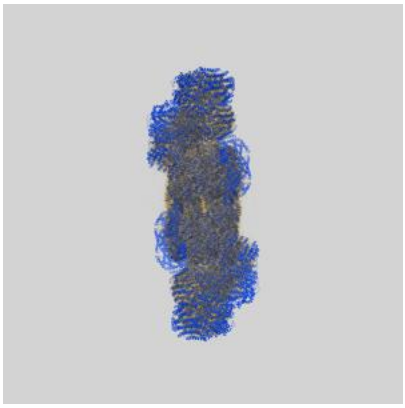
9.1 Map-model overlay



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0167 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.

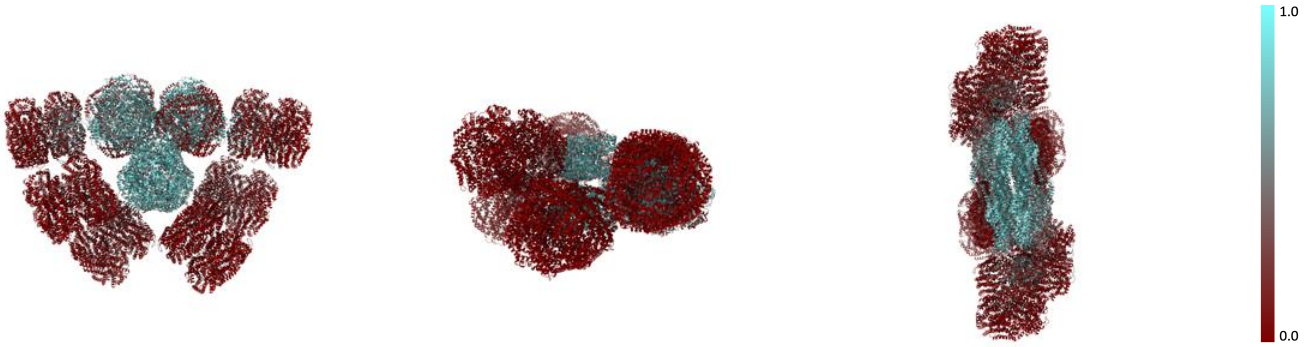
9.2 Q-score mapped to coordinate model (i)



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.

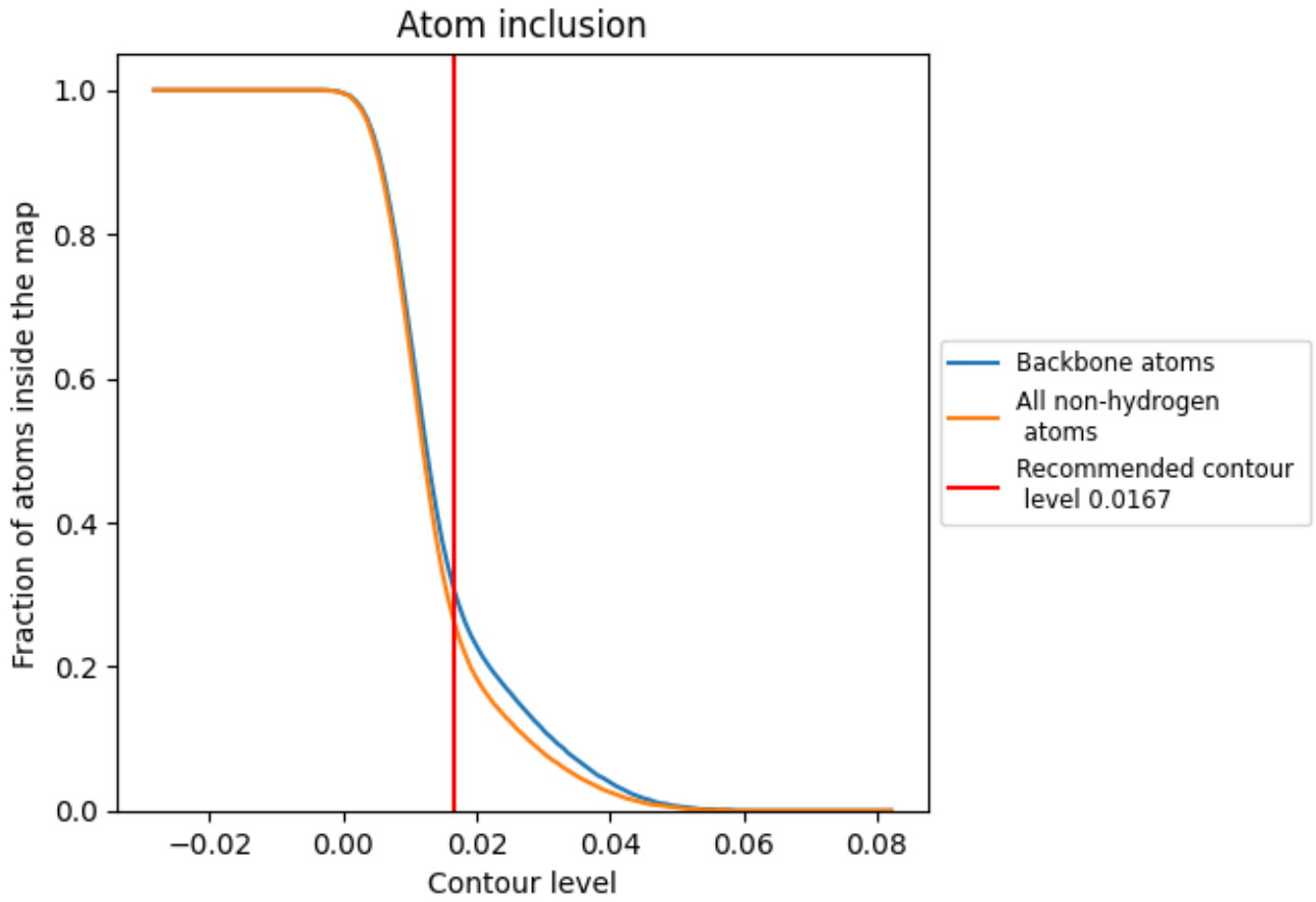
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.0167).

9.4 Atom inclusion (i)



At the recommended contour level, 30% of all backbone atoms, 26% 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 (0.0167) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.2600	0.1100
03	0.8290	0.4180
13	0.8280	0.4130
23	0.5860	0.3410
33	0.5930	0.3370
A1	0.2030	0.0530
A2	0.4640	0.0740
A4	0.2740	0.0400
A5	0.1970	0.0240
A6	0.4550	0.0680
A7	0.1000	0.1420
A8	0.2930	0.0510
B1	0.0630	0.0210
B2	0.3780	0.0530
B4	0.1360	-0.0000
B5	0.0670	0.0120
B6	0.3430	0.0570
B7	0.0710	0.0470
B8	0.1450	0.0020
C1	0.0120	0.0280
C2	0.2360	0.0370
C4	0.0330	0.0120
C5	0.0180	0.0310
C6	0.2160	0.0310
C7	0.1260	0.1330
C8	0.0600	0.0200
D1	0.0050	0.0120
D2	0.1400	0.0310
D4	0.0250	0.0100
D5	0.0060	0.0070
D6	0.1320	0.0350
D7	0.1560	0.0820
D8	0.0340	0.0080
E1	0.0140	-0.0120
E2	0.1360	0.0220



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Chain	Atom inclusion	Q-score
E4	0.0220	0.0170
E5	0.0090	-0.0000
E6	0.1410	0.0160
E7	0.1510	0.1480
E8	0.0340	-0.0070
F1	0.0460	0.0050
F2	0.1650	0.0310
F4	0.0800	0.0000
F5	0.0370	0.0050
F6	0.1700	0.0300
F7	0.0950	0.1230
F8	0.0870	0.0120
G1	0.0780	0.0120
G2	0.3660	0.0780
G3	0.8580	0.4280
G4	0.1030	0.0010
G5	0.0740	0.0200
G6	0.3610	0.0770
G7	0.1340	0.1370
G8	0.1080	-0.0040
H1	0.0290	0.0040
H2	0.1610	0.0130
H3	0.8510	0.4160
H4	0.0340	-0.0180
H5	0.0310	0.0140
H6	0.1520	0.0110
H7	0.0960	0.1410
H8	0.0320	-0.0160
I1	0.0470	0.0040
I2	0.2440	0.0240
I3	0.8000	0.3320
I4	0.0820	-0.0090
I5	0.0500	-0.0020
I6	0.2260	0.0250
I7	0.0730	0.0510
I8	0.0720	0.0030
J1	0.0820	-0.0050
J2	0.2710	0.0280
J3	0.8360	0.3990
J4	0.1280	0.0240
J5	0.0850	0.0070
J6	0.2750	0.0290

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Chain	Atom inclusion	Q-score
J7	0.1170	0.1390
J8	0.1240	0.0160
K1	0.0390	0.0080
K2	0.1690	0.0200
K3	0.7580	0.3380
K4	0.1030	-0.0130
K5	0.0430	0.0100
K6	0.1640	0.0140
K7	0.1510	0.0750
K8	0.0910	-0.0080
L1	0.0210	0.0040
L2	0.1010	0.0270
L3	0.8590	0.4260
L4	0.0570	0.0150
L5	0.0230	0.0050
L6	0.0940	0.0400
L7	0.1660	0.1510
L8	0.0660	-0.0000
M1	0.0240	0.0010
M2	0.1500	0.0290
M3	0.8380	0.3830
M4	0.0710	0.0240
M5	0.0320	0.0210
M6	0.1420	0.0190
M7	0.0940	0.1250
M8	0.0600	-0.0050
N1	0.0450	-0.0070
N2	0.1470	0.0050
N3	0.7870	0.3530
N4	0.0920	0.0200
N5	0.0420	-0.0020
N6	0.1510	0.0090
N7	0.1320	0.1070
N8	0.0840	-0.0000
O1	0.0020	-0.0050
O2	0.0140	0.0120
O3	0.8740	0.4480
O4	0.0060	-0.0020
O5	0.0050	-0.0050
O6	0.0200	0.0060
O7	0.7210	0.2670
O8	0.0050	0.0010

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Chain	Atom inclusion	Q-score
P1	0.0070	-0.0190
P2	0.0450	0.0060
P3	0.8500	0.4310
P4	0.0130	0.0110
P5	0.0040	0.0020
P6	0.0460	0.0160
P7	0.7100	0.2800
P8	0.0120	0.0100
Q1	0.0040	0.0090
Q2	0.0410	0.0220
Q3	0.8440	0.4240
Q4	0.0030	0.0140
Q5	0.0020	0.0060
Q6	0.0480	0.0280
Q7	0.7430	0.2860
Q8	0.0070	0.0210
R1	0.0070	0.0080
R2	0.0730	0.0260
R3	0.5480	0.3000
R4	0.0130	0.0060
R5	0.0110	0.0270
R6	0.0610	0.0110
R7	0.7140	0.2820
R8	0.0090	-0.0040
S1	0.0020	0.0130
S2	0.0200	-0.0030
S3	0.4720	0.3130
S4	0.0020	0.0030
S5	0.0010	-0.0170
S6	0.0140	0.0010
S7	0.7200	0.2700
S8	0.0060	0.0010
T1	0.0090	0.0130
T2	0.0350	0.0110
T3	0.3710	0.2400
T4	0.0250	0.0230
T5	0.0050	-0.0020
T6	0.0310	-0.0120
T7	0.7470	0.3090
T8	0.0200	0.0260
U1	0.0020	0.0110
U2	0.0170	0.0130

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Chain	Atom inclusion	Q-score
U3	0.4240	0.2870
U4	0.0020	-0.0010
U5	0.0010	0.0060
U6	0.0160	0.0010
U7	0.7740	0.3040
U8	0.0000	0.0130
V1	0.0000	0.0040
V2	0.0270	0.0130
V3	0.5070	0.2930
V4	0.0020	-0.0030
V5	0.0010	0.0180
V6	0.0250	0.0100
V7	0.7060	0.2510
V8	0.0010	-0.0160
W1	0.0020	0.0040
W2	0.0140	0.0000
W3	0.5030	0.3090
W4	0.0070	0.0070
W5	0.0030	-0.0010
W6	0.0230	-0.0060
W7	0.7050	0.2790
W8	0.0040	-0.0020
X1	0.0010	-0.0070
X2	0.0170	0.0150
X3	0.7960	0.3300
X4	0.0100	0.0260
X5	0.0020	0.0140
X6	0.0090	0.0010
X7	0.7580	0.2900
X8	0.0070	0.0060
Y1	0.0010	-0.0160
Y2	0.0140	0.0130
Y3	0.8350	0.3850
Y4	0.0030	0.0200
Y5	0.0000	0.0140
Y6	0.0140	0.0080
Y7	0.7290	0.2950
Y8	0.0020	0.0020
Z1	0.0000	-0.0050
Z2	0.0200	0.0060
Z3	0.7570	0.3380
Z4	0.0030	0.0160

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Chain	Atom inclusion	Q-score
Z5	0.0030	-0.0180
Z6	0.0220	0.0240
Z7	0.7120	0.2690
Z8	0.0020	-0.0090
a1	0.0040	0.0060
a2	0.1000	0.0430
a3	0.8600	0.4250
a4	0.0180	-0.0140
a5	0.0040	-0.0130
a6	0.0920	0.0450
a7	0.7350	0.2850
a8	0.0130	0.0300
b3	0.8630	0.4340
b7	0.7570	0.3150
c3	0.8480	0.4080
d3	0.7730	0.3240
e3	0.8790	0.4410
f3	0.8500	0.4340
g3	0.8450	0.4210
h3	0.8260	0.3660
i3	0.5510	0.2960
j3	0.4490	0.3000
k3	0.3660	0.2390
l3	0.4320	0.2890
m3	0.5140	0.3000
n3	0.5080	0.3090
o3	0.7770	0.3080
p3	0.8250	0.3610
q3	0.8000	0.3400
r3	0.8680	0.4220
s3	0.8210	0.3740
t3	0.8510	0.3880
u3	0.7560	0.2810
v3	0.8230	0.3520
w3	0.8010	0.3340
x3	0.8780	0.4330
y3	0.8180	0.3710
z3	0.8500	0.3870