Full wwPDB EM Validation Report ⓘ

Jan 14, 2025 – 08:26 PM JST

PDB ID	:	8ZK2
EMDB ID	:	EMD-60165
Title	:	Cryo-EM structure of photosynthetic LH1-RC core complex of Roseospirillum parvum
Authors	:	Wang, G.-L.; Wang, X.-P.; Yu, L.-J.
Deposited on	:	2024-05-15
Resolution	:	2.65 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:

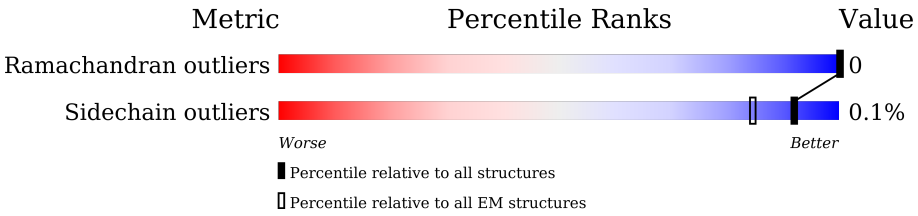
EMDB validation analysis	:	0.0.1.dev113
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.40

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 2.65 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)
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	C	362	10% 94% 6%
2	L	275	6% 99% ..
3	M	323	7% 89% 11%
4	H	254	11% 96% .
5	B	68	19% 72% 28%
5	D	68	12% 72% 28%
5	F	68	10% 72% 28%
5	I	68	13% 72% 28%
5	K	68	7% 72% 28%

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Mol	Chain	Length	Quality of chain
5	O	68	10% 72% 28%
5	Q	68	12% 72% 28%
5	S	68	7% 72% 28%
5	U	68	9% 72% 28%
5	W	68	6% 72% 28%
5	Y	68	21% 72% 28%
5	a	68	72% 28%
5	c	68	18% 72% 28%
5	e	68	9% 72% 28%
5	g	68	10% 72% 28%
5	i	68	72% 28%
6	A	67	12% 79% 21%
6	E	67	79% 21%
6	G	67	79% 21%
6	J	67	79% 21%
6	N	67	79% 21%
6	P	67	6% 79% 21%
6	R	67	79% 21%
6	T	67	79% 21%
6	V	67	79% 21%
6	X	67	79% 21%
6	Z	67	12% 69% 31%
6	b	67	79% 21%
6	d	67	7% 79% 21%
6	f	67	79% 21%

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Mol	Chain	Length	Quality of chain
6	h	67	
6	j	67	

2 Entry composition (i)

There are 16 unique types of molecules in this entry. The entry contains 26948 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 Photosynthetic reaction center cytochrome c subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	C	342	Total	C	N	O	S	0	0
			2618	1646	446	501	25		

- Molecule 2 is a protein called Reaction center protein L chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	L	273	Total	C	N	O	S	0	0
			2163	1458	344	350	11		

- Molecule 3 is a protein called Reaction center protein M chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	M	287	Total	C	N	O	S	0	0
			2269	1514	369	376	10		

- Molecule 4 is a protein called Photosynthetic reaction center H subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	H	245	Total	C	N	O	S	0	0
			1906	1214	327	357	8		

- Molecule 5 is a protein called Beta subunit of light-harvesting 1 complex.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	B	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	D	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	F	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	I	49	Total	C	N	O	S	0	0
			377	248	62	65	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	K	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	O	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	Q	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	S	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	U	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	W	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	Y	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	a	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	c	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	e	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	g	49	Total	C	N	O	S	0	0
			377	248	62	65	2		
5	i	49	Total	C	N	O	S	0	0
			377	248	62	65	2		

- Molecule 6 is a protein called Alpha subunit of light-harvesting 1 complex.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	A	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	E	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	G	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	J	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	N	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	P	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	R	53	Total	C	N	O	S	0	0
			424	283	71	67	3		

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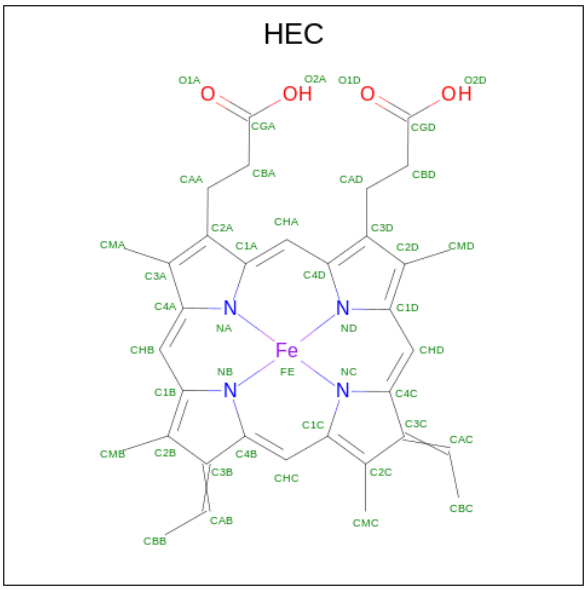
Mol	Chain	Residues	Atoms					AltConf	Trace
6	T	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	V	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	X	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	Z	46	Total	C	N	O	S	0	0
			369	248	63	56	2		
6	b	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	d	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	f	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	h	53	Total	C	N	O	S	0	0
			424	283	71	67	3		
6	j	53	Total	C	N	O	S	0	0
			424	283	71	67	3		

- Molecule 7 is HEME C (three-letter code: HEC) (formula: $C_{34}H_{34}FeN_4O_4$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
7	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
7	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	

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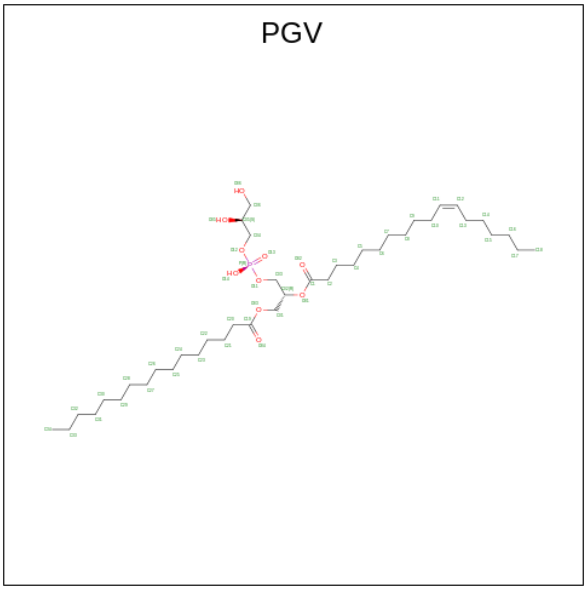
Mol	Chain	Residues	Atoms	AltConf
7	C	1	Total C Fe N O 43 34 1 4 4	0
7	C	1	Total C Fe N O 43 34 1 4 4	0

- Molecule 8 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	AltConf
8	C	3	Total Mg 3 3	0
8	H	1	Total Mg 1 1	0

- Molecule 9 is (1R)-2-{[{[(2S)-2,3-DIHYDROXYPROPYL]OXY}(HYDROXY)PHOSPHORYL]OXY}-1-[(PALMITOYLOXY)METHYL]ETHYL (11E)-OCTADEC-11-ENOATE (three-letter code: PGV) (formula: $C_{40}H_{77}O_{10}P$).



Mol	Chain	Residues	Atoms	AltConf
9	C	1	Total C O P 38 27 10 1	0
9	L	1	Total C O 22 17 5	0
9	M	1	Total C O P 46 37 8 1	0
9	M	1	Total C O P 42 33 8 1	0

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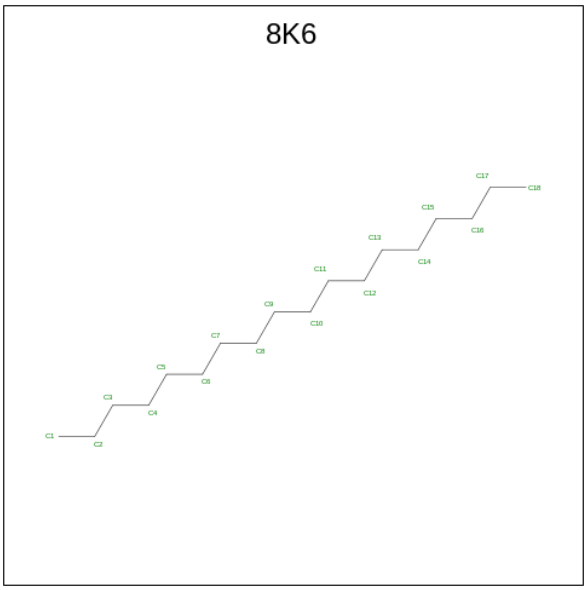
Mol	Chain	Residues	Atoms	AltConf
9	H	1	Total C O P 51 40 10 1	0
9	H	1	Total C O P 51 40 10 1	0
9	R	1	Total C O P 51 40 10 1	0
9	Z	1	Total C O P 42 31 10 1	0

- Molecule 10 is Octadecane (three-letter code: 8K6) (formula: $C_{18}H_{38}$).



Mol	Chain	Residues	Atoms	AltConf
10	C	1	Total C 16 16	0
10	L	1	Total C 15 15	0
10	L	1	Total C 18 18	0
10	L	1	Total C 18 18	0
10	L	1	Total C 18 18	0
10	L	1	Total C 18 18	0
10	M	1	Total C 18 18	0

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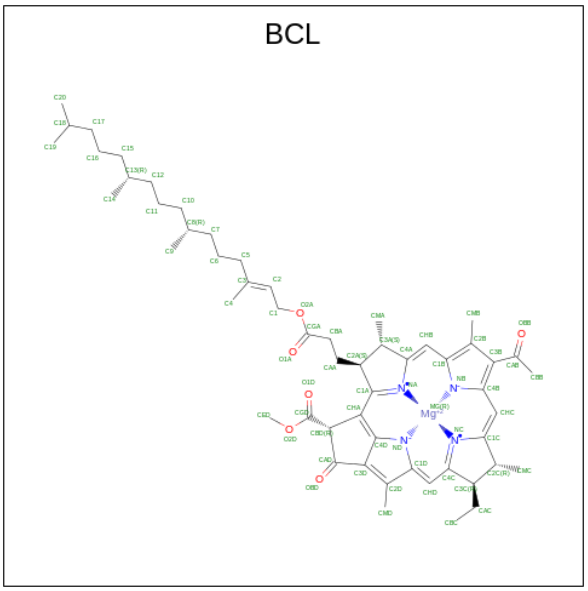
Mol	Chain	Residues	Atoms	AltConf
10	H	1	Total C 17 17	0
10	H	1	Total C 18 18	0
10	H	1	Total C 18 18	0
10	H	1	Total C 15 15	0
10	J	1	Total C 13 13	0
10	J	1	Total C 18 18	0
10	N	1	Total C 18 18	0
10	P	1	Total C 18 18	0
10	V	1	Total C 18 18	0
10	V	1	Total C 18 18	0
10	X	1	Total C 18 18	0
10	d	1	Total C 18 18	0
10	f	1	Total C 18 18	0
10	j	1	Total C 18 18	0
10	j	1	Total C 18 18	0

- Molecule 11 is BACTERIOCHLOROPHYLL A (three-letter code: BCL) (formula: $C_{55}H_{74}MgN_4O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
11	L	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	L	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	M	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	M	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	B	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	A	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	A	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	D	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	E	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	E	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	F	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	G	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	G	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	I	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
11	J	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	J	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	K	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	N	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	N	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	O	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	P	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	P	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	Q	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	R	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	R	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	S	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	T	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	T	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	U	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	V	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	V	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	W	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	X	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	X	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	Y	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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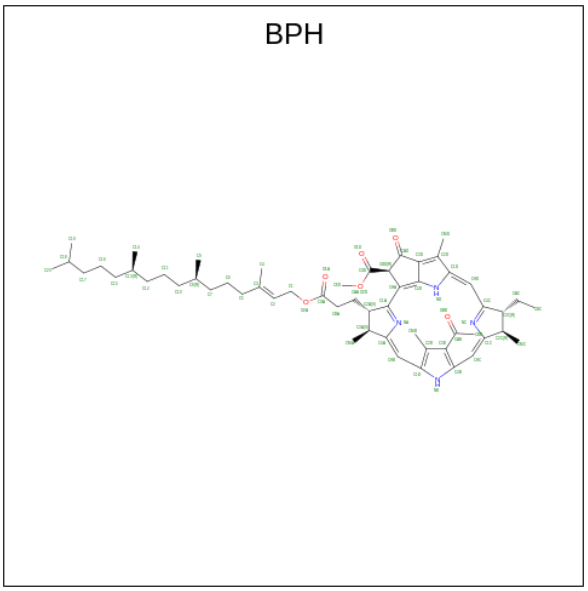
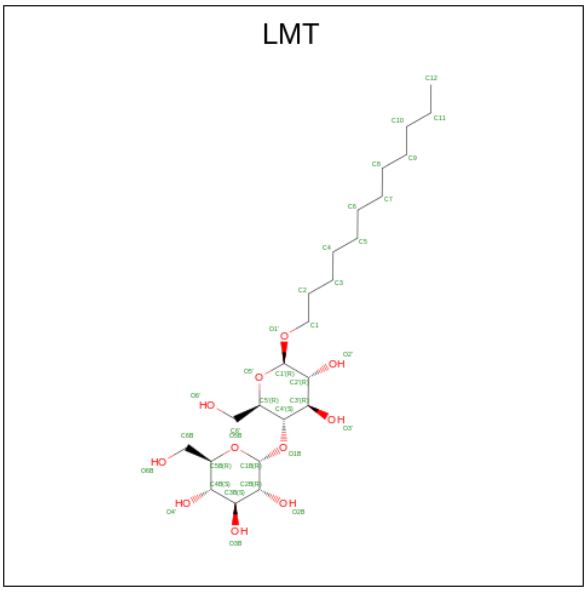
Mol	Chain	Residues	Atoms					AltConf
11	Z	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	a	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	b	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	b	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	c	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	d	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	d	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	e	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	f	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	f	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	g	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	h	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	h	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	i	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	j	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	j	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

- Molecule 12 is BACTERIOPHEOPHYTIN A (three-letter code: BPH) (formula: $C_{55}H_{76}N_4O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
12	L	1	Total	C	N	O	0
			65	55	4	6	
12	M	1	Total	C	N	O	0
			65	55	4	6	

- Molecule 13 is DODECYL-BETA-D-MALTOSIDE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).

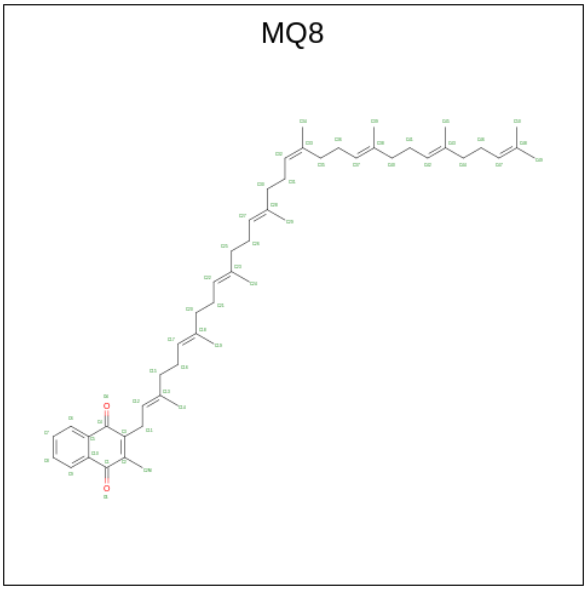


Mol	Chain	Residues	Atoms			AltConf
13	L	1	Total	C	O	0
			32	21	11	

- Molecule 14 is FE (III) ION (three-letter code: FE) (formula: Fe) (labeled as "Ligand of Interest" by depositor).

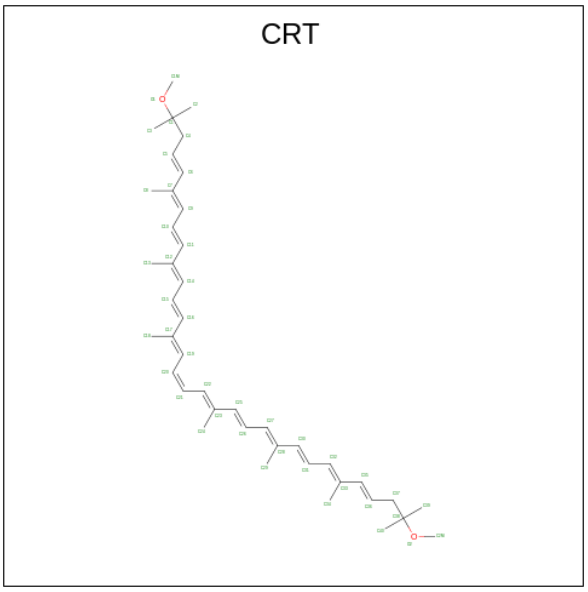
Mol	Chain	Residues	Atoms	AltConf
14	M	1	Total Fe 1 1	0

- Molecule 15 is MENAQUINONE 8 (three-letter code: MQ8) (formula: $C_{51}H_{72}O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
15	M	1	Total C O 53 51 2	0

- Molecule 16 is SPIRILLOXANTHIN (three-letter code: CRT) (formula: $C_{42}H_{60}O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
16	M	1	Total C O 44 42 2	0
16	B	1	Total C O 44 42 2	0
16	A	1	Total C O 44 42 2	0
16	E	1	Total C O 44 42 2	0
16	I	1	Total C O 44 42 2	0
16	K	1	Total C O 44 42 2	0
16	N	1	Total C O 44 42 2	0
16	P	1	Total C O 44 42 2	0
16	R	1	Total C O 44 42 2	0
16	U	1	Total C O 44 42 2	0
16	W	1	Total C O 44 42 2	0
16	Y	1	Total C O 44 42 2	0
16	Z	1	Total C O 44 42 2	0
16	a	1	Total C O 44 42 2	0

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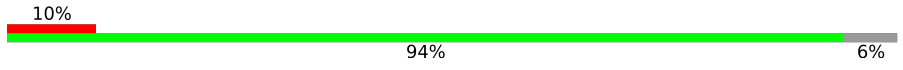
Mol	Chain	Residues	Atoms			AltConf
16	e	1	Total	C	O	0
			44	42	2	
16	i	1	Total	C	O	0
			44	42	2	
16	j	1	Total	C	O	0
			44	42	2	

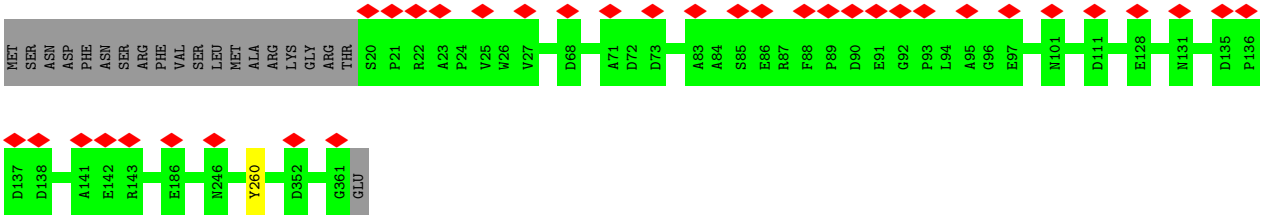
3 Residue-property plots (i)

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: Photosynthetic reaction center cytochrome c subunit

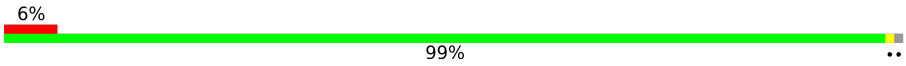
Chain C:





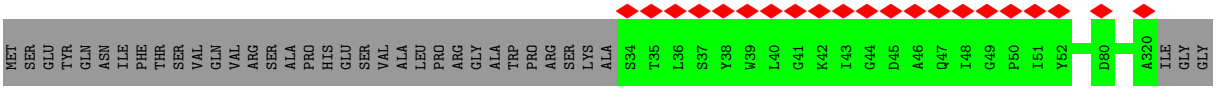
• Molecule 2: Reaction center protein L chain

Chain L:



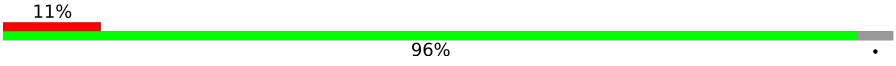
• Molecule 3: Reaction center protein M chain

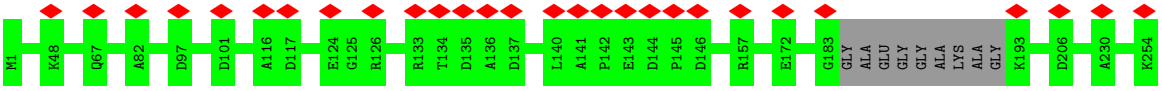
Chain M:



• Molecule 4: Photosynthetic reaction center H subunit

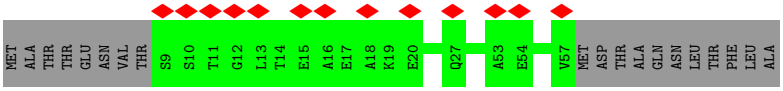
Chain H:





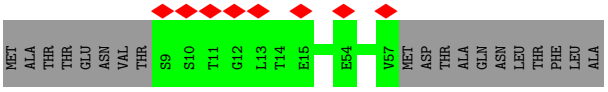
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain B:



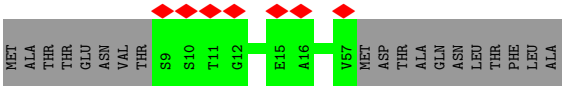
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain D:



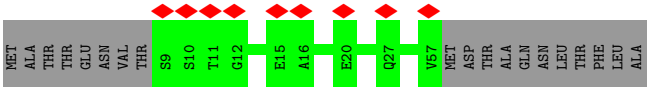
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain F:



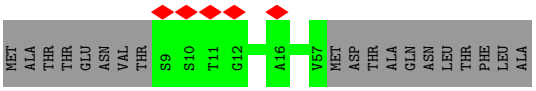
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain I:



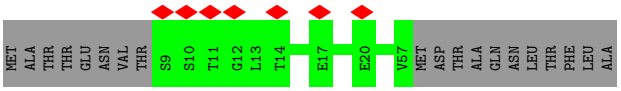
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain K:



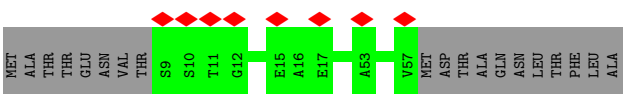
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain O:



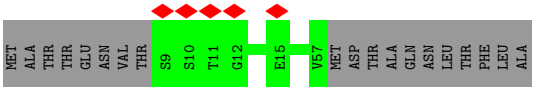
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain Q:



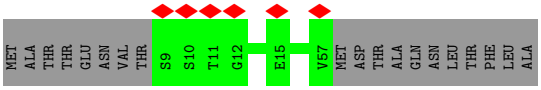
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain S:



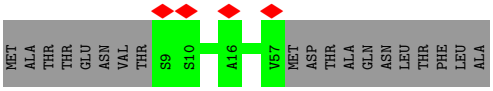
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain U:



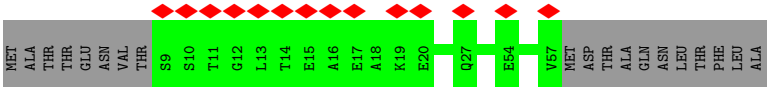
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain W:



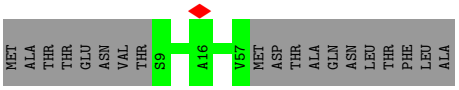
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain Y:



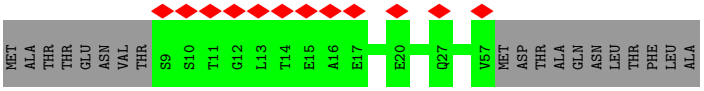
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain a:



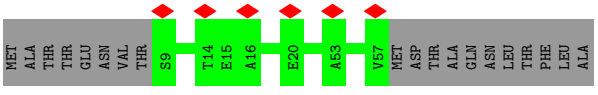
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain c:



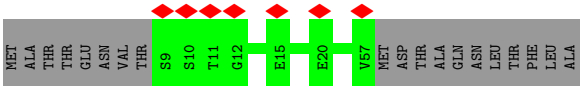
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain e:



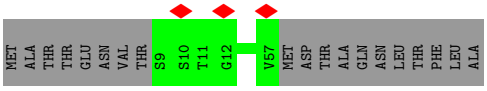
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain g:



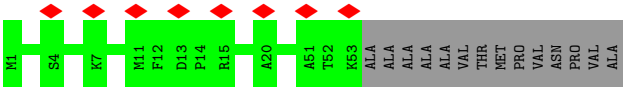
• Molecule 5: Beta subunit of light-harvesting 1 complex

Chain i:



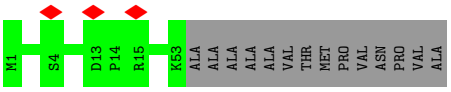
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain A:



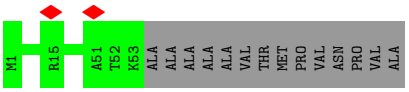
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain E:



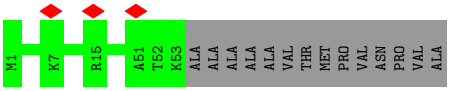
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain G:



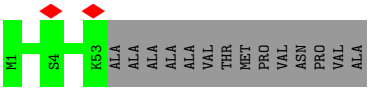
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain J:



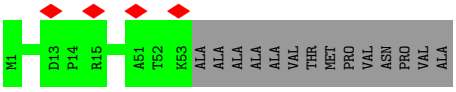
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain N:



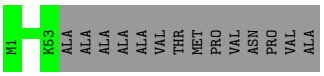
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain P:



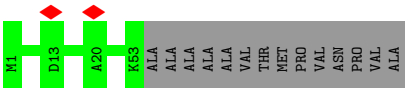
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain R:



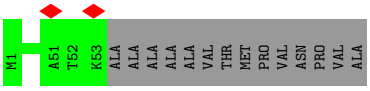
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain T:



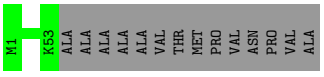
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain V:



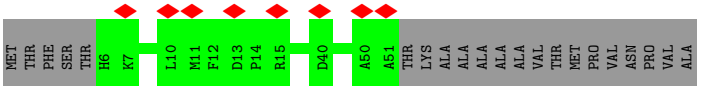
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain X:



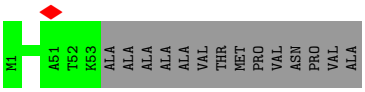
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain Z:



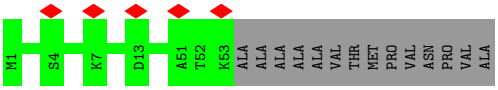
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain b:



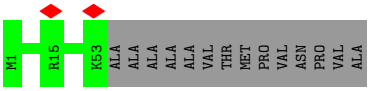
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain d:



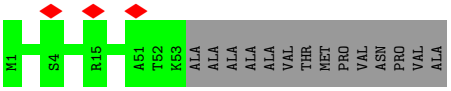
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain f:



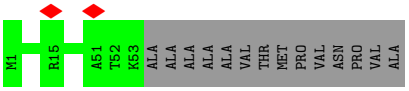
• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain h:



• Molecule 6: Alpha subunit of light-harvesting 1 complex

Chain j:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	281288	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	61.6	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2400	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	3.289	Depositor
Minimum map value	-1.682	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.065	Depositor
Recommended contour level	0.562	Depositor
Map size (Å)	374.4, 374.4, 374.4	wwPDB
Map dimensions	360, 360, 360	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.04, 1.04, 1.04	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: BCL, LMT, PGV, 8K6, MG, HEC, FE, BPH, MQ8, CRT

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	C	0.27	0/2693	0.48	0/3681
2	L	0.31	0/2250	0.46	0/3075
3	M	0.30	0/2357	0.46	0/3230
4	H	0.28	0/1952	0.52	0/2658
5	B	0.26	0/392	0.41	0/537
5	D	0.26	0/392	0.39	0/537
5	F	0.26	0/392	0.40	0/537
5	I	0.26	0/392	0.44	0/537
5	K	0.26	0/392	0.41	0/537
5	O	0.25	0/392	0.38	0/537
5	Q	0.27	0/392	0.39	0/537
5	S	0.27	0/392	0.41	0/537
5	U	0.27	0/392	0.39	0/537
5	W	0.27	0/392	0.45	0/537
5	Y	0.24	0/392	0.36	0/537
5	a	0.26	0/392	0.40	0/537
5	c	0.26	0/392	0.39	0/537
5	e	0.27	0/392	0.41	0/537
5	g	0.25	0/392	0.39	0/537
5	i	0.26	0/392	0.39	0/537
6	A	0.31	0/437	0.50	0/595
6	E	0.31	0/437	0.46	0/595
6	G	0.27	0/437	0.43	0/595
6	J	0.26	0/437	0.47	0/595
6	N	0.27	0/437	0.44	0/595
6	P	0.26	0/437	0.45	0/595
6	R	0.26	0/437	0.44	0/595
6	T	0.25	0/437	0.43	0/595
6	V	0.25	0/437	0.43	0/595
6	X	0.26	0/437	0.44	0/595
6	Z	0.27	0/381	0.45	0/520
6	b	0.27	0/437	0.44	0/595

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
6	d	0.25	0/437	0.46	0/595
6	f	0.26	0/437	0.44	0/595
6	h	0.26	0/437	0.43	0/595
6	j	0.27	0/437	0.45	0/595
All	All	0.27	0/22460	0.45	0/30681

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

Due to software issues we are unable to calculate clashes - this section is therefore empty.

5.3 Torsion angles

5.3.1 Protein backbone

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	C	340/362 (94%)	325 (96%)	15 (4%)	0	100	100
2	L	271/275 (98%)	265 (98%)	6 (2%)	0	100	100
3	M	285/323 (88%)	277 (97%)	8 (3%)	0	100	100
4	H	241/254 (95%)	237 (98%)	4 (2%)	0	100	100
5	B	47/68 (69%)	47 (100%)	0	0	100	100
5	D	47/68 (69%)	47 (100%)	0	0	100	100
5	F	47/68 (69%)	46 (98%)	1 (2%)	0	100	100
5	I	47/68 (69%)	45 (96%)	2 (4%)	0	100	100
5	K	47/68 (69%)	45 (96%)	2 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	O	47/68 (69%)	45 (96%)	2 (4%)	0	100	100
5	Q	47/68 (69%)	46 (98%)	1 (2%)	0	100	100
5	S	47/68 (69%)	46 (98%)	1 (2%)	0	100	100
5	U	47/68 (69%)	46 (98%)	1 (2%)	0	100	100
5	W	47/68 (69%)	46 (98%)	1 (2%)	0	100	100
5	Y	47/68 (69%)	45 (96%)	2 (4%)	0	100	100
5	a	47/68 (69%)	47 (100%)	0	0	100	100
5	c	47/68 (69%)	47 (100%)	0	0	100	100
5	e	47/68 (69%)	45 (96%)	2 (4%)	0	100	100
5	g	47/68 (69%)	46 (98%)	1 (2%)	0	100	100
5	i	47/68 (69%)	46 (98%)	1 (2%)	0	100	100
6	A	51/67 (76%)	50 (98%)	1 (2%)	0	100	100
6	E	51/67 (76%)	51 (100%)	0	0	100	100
6	G	51/67 (76%)	51 (100%)	0	0	100	100
6	J	51/67 (76%)	51 (100%)	0	0	100	100
6	N	51/67 (76%)	51 (100%)	0	0	100	100
6	P	51/67 (76%)	51 (100%)	0	0	100	100
6	R	51/67 (76%)	51 (100%)	0	0	100	100
6	T	51/67 (76%)	51 (100%)	0	0	100	100
6	V	51/67 (76%)	51 (100%)	0	0	100	100
6	X	51/67 (76%)	51 (100%)	0	0	100	100
6	Z	44/67 (66%)	43 (98%)	1 (2%)	0	100	100
6	b	51/67 (76%)	51 (100%)	0	0	100	100
6	d	51/67 (76%)	51 (100%)	0	0	100	100
6	f	51/67 (76%)	51 (100%)	0	0	100	100
6	h	51/67 (76%)	50 (98%)	1 (2%)	0	100	100
6	j	51/67 (76%)	51 (100%)	0	0	100	100
All	All	2698/3374 (80%)	2645 (98%)	53 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	C	278/296 (94%)	277 (100%)	1 (0%)	89 95
2	L	218/219 (100%)	216 (99%)	2 (1%)	75 87
3	M	225/254 (89%)	225 (100%)	0	100 100
4	H	200/202 (99%)	200 (100%)	0	100 100
5	B	35/51 (69%)	35 (100%)	0	100 100
5	D	35/51 (69%)	35 (100%)	0	100 100
5	F	35/51 (69%)	35 (100%)	0	100 100
5	I	35/51 (69%)	35 (100%)	0	100 100
5	K	35/51 (69%)	35 (100%)	0	100 100
5	O	35/51 (69%)	35 (100%)	0	100 100
5	Q	35/51 (69%)	35 (100%)	0	100 100
5	S	35/51 (69%)	35 (100%)	0	100 100
5	U	35/51 (69%)	35 (100%)	0	100 100
5	W	35/51 (69%)	35 (100%)	0	100 100
5	Y	35/51 (69%)	35 (100%)	0	100 100
5	a	35/51 (69%)	35 (100%)	0	100 100
5	c	35/51 (69%)	35 (100%)	0	100 100
5	e	35/51 (69%)	35 (100%)	0	100 100
5	g	35/51 (69%)	35 (100%)	0	100 100
5	i	35/51 (69%)	35 (100%)	0	100 100
6	A	45/53 (85%)	45 (100%)	0	100 100
6	E	45/53 (85%)	45 (100%)	0	100 100
6	G	45/53 (85%)	45 (100%)	0	100 100
6	J	45/53 (85%)	45 (100%)	0	100 100
6	N	45/53 (85%)	45 (100%)	0	100 100
6	P	45/53 (85%)	45 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	R	45/53 (85%)	45 (100%)	0	100	100
6	T	45/53 (85%)	45 (100%)	0	100	100
6	V	45/53 (85%)	45 (100%)	0	100	100
6	X	45/53 (85%)	45 (100%)	0	100	100
6	Z	38/53 (72%)	38 (100%)	0	100	100
6	b	45/53 (85%)	45 (100%)	0	100	100
6	d	45/53 (85%)	45 (100%)	0	100	100
6	f	45/53 (85%)	45 (100%)	0	100	100
6	h	45/53 (85%)	45 (100%)	0	100	100
6	j	45/53 (85%)	45 (100%)	0	100	100
All	All	2194/2635 (83%)	2191 (100%)	3 (0%)	92	97

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	260	TYR
2	L	168	HIS
2	L	274	TRP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
2	L	146	HIS
4	H	232	GLN
4	H	253	ASN
6	T	39	HIS

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 111 ligands modelled in this entry, 5 are monoatomic - leaving 106 for Mogul analysis.

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	BCL	d	101	-	64,74,74	1.75	14 (21%)	78,115,115	2.42	23 (29%)
10	8K6	J	104	-	17,17,17	0.07	0	16,16,16	0.11	0
10	8K6	V	104	-	17,17,17	0.09	0	16,16,16	0.07	0
10	8K6	H	305	-	17,17,17	0.09	0	16,16,16	0.10	0
11	BCL	e	101	-	64,74,74	1.75	11 (17%)	78,115,115	2.15	20 (25%)
10	8K6	f	103	-	17,17,17	0.08	0	16,16,16	0.10	0
10	8K6	P	104	-	17,17,17	0.09	0	16,16,16	0.10	0
13	LMT	L	408	-	33,33,36	0.39	0	44,44,47	0.78	1 (2%)
10	8K6	V	103	-	17,17,17	0.08	0	16,16,16	0.07	0
11	BCL	Q	101	-	64,74,74	1.74	12 (18%)	78,115,115	2.06	22 (28%)
11	BCL	J	102	6	64,74,74	1.67	11 (17%)	78,115,115	2.33	25 (32%)
11	BCL	E	101	-	64,74,74	1.75	16 (25%)	78,115,115	2.45	22 (28%)
16	CRT	B	102	-	41,43,43	1.92	12 (29%)	50,54,54	1.68	12 (24%)
16	CRT	e	102	-	41,43,43	1.93	12 (29%)	50,54,54	1.67	13 (26%)
10	8K6	C	509	-	15,15,17	0.09	0	14,14,16	0.11	0
11	BCL	R	102	6	64,74,74	1.68	13 (20%)	78,115,115	2.32	21 (26%)
9	PGV	C	508	-	37,37,50	1.06	2 (5%)	40,43,56	1.19	3 (7%)
11	BCL	f	102	6	64,74,74	1.66	11 (17%)	78,115,115	2.26	19 (24%)
11	BCL	W	101	-	64,74,74	1.74	13 (20%)	78,115,115	2.10	20 (25%)
16	CRT	K	102	-	41,43,43	1.96	12 (29%)	50,54,54	1.73	14 (28%)
16	CRT	W	102	-	41,43,43	1.91	12 (29%)	50,54,54	1.63	13 (26%)
10	8K6	M	409	-	17,17,17	0.07	0	16,16,16	0.10	0
11	BCL	c	101	-	64,74,74	1.73	12 (18%)	78,115,115	2.14	20 (25%)
11	BCL	J	101	-	64,74,74	1.76	14 (21%)	78,115,115	2.36	22 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
16	CRT	E	103	-	41,43,43	1.90	12 (29%)	50,54,54	1.87	16 (32%)
11	BCL	G	102	6	64,74,74	1.65	12 (18%)	78,115,115	2.22	21 (26%)
10	8K6	J	103	-	12,12,17	0.08	0	11,11,16	0.10	0
7	HEC	C	504	1	32,50,50	2.14	3 (9%)	24,82,82	1.47	2 (8%)
11	BCL	j	103	6	64,74,74	1.69	13 (20%)	78,115,115	2.30	21 (26%)
11	BCL	M	402	-	64,74,74	1.73	13 (20%)	78,115,115	2.37	18 (23%)
11	BCL	I	101	-	64,74,74	1.75	13 (20%)	78,115,115	2.11	19 (24%)
7	HEC	C	503	1	32,50,50	2.21	3 (9%)	24,82,82	1.51	3 (12%)
11	BCL	Z	101	-	64,74,74	1.73	13 (20%)	78,115,115	2.32	22 (28%)
11	BCL	F	101	-	64,74,74	1.78	14 (21%)	78,115,115	2.05	24 (30%)
16	CRT	M	406	-	41,43,43	1.93	12 (29%)	50,54,54	1.49	11 (22%)
11	BCL	N	102	6	64,74,74	1.65	13 (20%)	78,115,115	2.39	25 (32%)
16	CRT	a	102	-	41,43,43	1.91	12 (29%)	50,54,54	1.65	14 (28%)
11	BCL	j	102	-	64,74,74	1.76	13 (20%)	78,115,115	2.43	21 (26%)
11	BCL	G	101	-	64,74,74	1.75	12 (18%)	78,115,115	2.44	21 (26%)
10	8K6	H	306	-	14,14,17	0.08	0	13,13,16	0.18	0
11	BCL	M	403	-	64,74,74	1.84	14 (21%)	78,115,115	2.69	23 (29%)
9	PGV	L	410	-	21,21,50	1.28	2 (9%)	23,23,56	1.69	5 (21%)
11	BCL	d	102	6	64,74,74	1.68	12 (18%)	78,115,115	2.25	21 (26%)
11	BCL	X	102	6	64,74,74	1.68	13 (20%)	78,115,115	2.23	19 (24%)
10	8K6	N	104	-	17,17,17	0.08	0	16,16,16	0.12	0
10	8K6	j	105	-	17,17,17	0.08	0	16,16,16	0.10	0
10	8K6	j	104	-	17,17,17	0.09	0	16,16,16	0.11	0
9	PGV	H	301	-	50,50,50	0.91	2 (4%)	53,56,56	1.09	4 (7%)
10	8K6	L	406	-	17,17,17	0.09	0	16,16,16	0.10	0
9	PGV	H	302	-	50,50,50	0.91	2 (4%)	53,56,56	1.05	3 (5%)
11	BCL	S	101	-	64,74,74	1.76	16 (25%)	78,115,115	1.97	23 (29%)
10	8K6	L	407	-	17,17,17	0.09	0	16,16,16	0.08	0
11	BCL	T	102	6	64,74,74	1.68	12 (18%)	78,115,115	2.33	23 (29%)
9	PGV	R	104	-	50,50,50	0.92	2 (4%)	53,56,56	0.95	2 (3%)
11	BCL	U	101	-	64,74,74	1.80	14 (21%)	78,115,115	2.07	20 (25%)
12	BPH	L	403	-	51,70,70	0.86	1 (1%)	52,101,101	1.02	4 (7%)
11	BCL	D	101	-	64,74,74	1.77	15 (23%)	78,115,115	2.10	22 (28%)
11	BCL	R	101	-	64,74,74	1.78	12 (18%)	78,115,115	2.25	20 (25%)
10	8K6	X	103	-	17,17,17	0.08	0	16,16,16	0.08	0
16	CRT	I	102	-	41,43,43	1.91	12 (29%)	50,54,54	1.92	16 (32%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
11	BCL	b	101	-	64,74,74	1.76	13 (20%)	78,115,115	2.28	22 (28%)
10	8K6	L	404	-	14,14,17	0.08	0	13,13,16	0.14	0
10	8K6	d	103	-	17,17,17	0.08	0	16,16,16	0.07	0
10	8K6	H	304	-	17,17,17	0.09	0	16,16,16	0.07	0
11	BCL	B	101	-	64,74,74	1.75	12 (18%)	78,115,115	2.08	23 (29%)
16	CRT	R	103	-	41,43,43	1.92	12 (29%)	50,54,54	1.67	13 (26%)
11	BCL	X	101	-	64,74,74	1.75	15 (23%)	78,115,115	2.49	23 (29%)
11	BCL	V	101	-	64,74,74	1.70	12 (18%)	78,115,115	2.40	20 (25%)
11	BCL	Y	101	-	64,74,74	1.75	13 (20%)	78,115,115	2.08	24 (30%)
12	BPH	M	404	-	51,70,70	0.89	1 (1%)	52,101,101	1.05	5 (9%)
16	CRT	i	102	-	41,43,43	1.90	12 (29%)	50,54,54	1.65	14 (28%)
11	BCL	L	401	-	64,74,74	1.75	12 (18%)	78,115,115	2.43	21 (26%)
11	BCL	h	102	6	64,74,74	1.66	13 (20%)	78,115,115	2.30	18 (23%)
7	HEC	C	502	1	32,50,50	2.14	4 (12%)	24,82,82	1.52	3 (12%)
15	MQ8	M	405	-	54,54,54	0.40	0	66,69,69	0.38	0
10	8K6	L	409	-	17,17,17	0.08	0	16,16,16	0.16	0
11	BCL	E	102	6	64,74,74	1.68	14 (21%)	78,115,115	2.23	18 (23%)
11	BCL	P	101	-	64,74,74	1.72	13 (20%)	78,115,115	2.57	22 (28%)
11	BCL	T	101	-	64,74,74	1.75	11 (17%)	78,115,115	2.37	20 (25%)
11	BCL	N	101	-	64,74,74	1.73	13 (20%)	78,115,115	2.46	23 (29%)
10	8K6	L	405	-	17,17,17	0.09	0	16,16,16	0.11	0
11	BCL	f	101	-	64,74,74	1.76	13 (20%)	78,115,115	2.41	20 (25%)
10	8K6	H	303	-	16,16,17	0.08	0	15,15,16	0.12	0
16	CRT	P	103	-	41,43,43	1.91	12 (29%)	50,54,54	1.64	13 (26%)
9	PGV	M	407	-	45,45,50	0.98	2 (4%)	49,50,56	1.03	4 (8%)
11	BCL	a	101	-	64,74,74	1.75	13 (20%)	78,115,115	2.10	21 (26%)
11	BCL	A	102	6	64,74,74	1.74	15 (23%)	78,115,115	2.31	23 (29%)
16	CRT	Y	102	-	41,43,43	1.98	12 (29%)	50,54,54	1.74	16 (32%)
16	CRT	N	103	-	41,43,43	1.92	12 (29%)	50,54,54	1.65	13 (26%)
11	BCL	g	101	-	64,74,74	1.71	12 (18%)	78,115,115	2.15	18 (23%)
11	BCL	i	101	-	64,74,74	1.75	11 (17%)	78,115,115	2.09	20 (25%)
11	BCL	h	101	-	64,74,74	1.71	11 (17%)	78,115,115	2.35	18 (23%)
7	HEC	C	501	1	32,50,50	2.16	3 (9%)	24,82,82	1.47	4 (16%)
11	BCL	K	101	-	64,74,74	1.75	13 (20%)	78,115,115	2.06	20 (25%)
16	CRT	U	102	-	41,43,43	1.94	12 (29%)	50,54,54	1.71	14 (28%)
16	CRT	Z	102	-	41,43,43	2.02	12 (29%)	50,54,54	2.02	18 (36%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
11	BCL	P	102	6	64,74,74	1.66	13 (20%)	78,115,115	2.37	22 (28%)
9	PGV	Z	103	-	41,41,50	1.00	2 (4%)	44,47,56	1.07	4 (9%)
11	BCL	b	102	6	64,74,74	1.68	13 (20%)	78,115,115	2.33	22 (28%)
11	BCL	A	101	-	64,74,74	1.78	13 (20%)	78,115,115	2.44	22 (28%)
16	CRT	j	101	-	41,43,43	1.94	12 (29%)	50,54,54	1.69	13 (26%)
11	BCL	O	101	-	64,74,74	1.77	13 (20%)	78,115,115	2.06	20 (25%)
11	BCL	L	402	-	64,74,74	1.75	14 (21%)	78,115,115	2.37	24 (30%)
11	BCL	V	102	6	64,74,74	1.66	13 (20%)	78,115,115	2.26	21 (26%)
9	PGV	M	408	-	41,41,50	1.04	2 (4%)	44,46,56	1.20	5 (11%)
16	CRT	A	103	-	41,43,43	1.90	12 (29%)	50,54,54	1.69	13 (26%)

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	BCL	d	101	-	-	14/37/137/137	-
10	8K6	J	104	-	-	1/15/15/15	-
10	8K6	V	104	-	-	0/15/15/15	-
10	8K6	H	305	-	-	0/15/15/15	-
11	BCL	e	101	-	-	20/37/137/137	-
10	8K6	f	103	-	-	1/15/15/15	-
10	8K6	P	104	-	-	1/15/15/15	-
13	LMT	L	408	-	-	7/18/58/61	0/2/2/2
10	8K6	V	103	-	-	1/15/15/15	-
11	BCL	Q	101	-	-	16/37/137/137	-
11	BCL	J	102	6	-	17/37/137/137	-
11	BCL	E	101	-	-	25/37/137/137	-
16	CRT	B	102	-	-	5/51/51/51	-
16	CRT	e	102	-	-	6/51/51/51	-
10	8K6	C	509	-	-	2/13/13/15	-
11	BCL	R	102	6	-	15/37/137/137	-
9	PGV	C	508	-	-	7/42/42/55	-
11	BCL	f	102	6	-	20/37/137/137	-
11	BCL	W	101	-	-	17/37/137/137	-
16	CRT	K	102	-	-	3/51/51/51	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
16	CRT	W	102	-	-	7/51/51/51	-
10	8K6	M	409	-	-	0/15/15/15	-
11	BCL	c	101	-	-	13/37/137/137	-
11	BCL	J	101	-	-	21/37/137/137	-
16	CRT	E	103	-	-	3/51/51/51	-
11	BCL	G	102	6	-	19/37/137/137	-
10	8K6	J	103	-	-	0/10/10/15	-
7	HEC	C	504	1	-	4/10/54/54	-
11	BCL	j	103	6	-	16/37/137/137	-
11	BCL	M	402	-	-	14/37/137/137	-
11	BCL	I	101	-	-	15/37/137/137	-
7	HEC	C	503	1	-	0/10/54/54	-
11	BCL	Z	101	-	-	24/37/137/137	-
11	BCL	F	101	-	-	18/37/137/137	-
16	CRT	M	406	-	-	0/51/51/51	-
11	BCL	N	102	6	-	15/37/137/137	-
16	CRT	a	102	-	-	5/51/51/51	-
11	BCL	j	102	-	-	15/37/137/137	-
11	BCL	G	101	-	-	17/37/137/137	-
10	8K6	H	306	-	-	0/12/12/15	-
11	BCL	M	403	-	-	17/37/137/137	-
9	PGV	L	410	-	-	9/23/23/55	-
11	BCL	d	102	6	-	22/37/137/137	-
11	BCL	X	102	6	-	20/37/137/137	-
10	8K6	N	104	-	-	0/15/15/15	-
10	8K6	j	105	-	-	2/15/15/15	-
10	8K6	j	104	-	-	2/15/15/15	-
9	PGV	H	301	-	-	21/55/55/55	-
10	8K6	L	406	-	-	2/15/15/15	-
9	PGV	H	302	-	-	12/55/55/55	-
11	BCL	S	101	-	-	13/37/137/137	-
10	8K6	L	407	-	-	1/15/15/15	-
11	BCL	T	102	6	-	17/37/137/137	-
9	PGV	R	104	-	-	15/55/55/55	-
11	BCL	U	101	-	-	17/37/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	BPH	L	403	-	-	4/37/105/105	0/5/6/6
11	BCL	D	101	-	-	18/37/137/137	-
11	BCL	R	101	-	-	19/37/137/137	-
10	8K6	X	103	-	-	1/15/15/15	-
16	CRT	I	102	-	-	5/51/51/51	-
11	BCL	b	101	-	-	24/37/137/137	-
10	8K6	L	404	-	-	0/12/12/15	-
10	8K6	d	103	-	-	3/15/15/15	-
10	8K6	H	304	-	-	0/15/15/15	-
11	BCL	B	101	-	-	15/37/137/137	-
16	CRT	R	103	-	-	4/51/51/51	-
11	BCL	X	101	-	-	22/37/137/137	-
11	BCL	V	101	-	-	23/37/137/137	-
11	BCL	Y	101	-	-	17/37/137/137	-
12	BPH	M	404	-	-	8/37/105/105	0/5/6/6
16	CRT	i	102	-	-	4/51/51/51	-
11	BCL	L	401	-	-	10/37/137/137	-
11	BCL	h	102	6	-	22/37/137/137	-
7	HEC	C	502	1	-	1/10/54/54	-
15	MQ8	M	405	-	-	12/47/67/67	0/2/2/2
10	8K6	L	409	-	-	0/15/15/15	-
11	BCL	E	102	6	-	17/37/137/137	-
11	BCL	P	101	-	-	21/37/137/137	-
11	BCL	T	101	-	-	22/37/137/137	-
11	BCL	N	101	-	-	20/37/137/137	-
10	8K6	L	405	-	-	1/15/15/15	-
11	BCL	f	101	-	-	23/37/137/137	-
10	8K6	H	303	-	-	2/14/14/15	-
16	CRT	P	103	-	-	4/51/51/51	-
9	PGV	M	407	-	-	13/47/47/55	-
11	BCL	a	101	-	-	14/37/137/137	-
11	BCL	A	102	6	-	15/37/137/137	-
16	CRT	Y	102	-	-	3/51/51/51	-
16	CRT	N	103	-	-	4/51/51/51	-
11	BCL	g	101	-	-	15/37/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	BCL	i	101	-	-	16/37/137/137	-
11	BCL	h	101	-	-	12/37/137/137	-
7	HEC	C	501	1	-	1/10/54/54	-
11	BCL	K	101	-	-	16/37/137/137	-
16	CRT	U	102	-	-	7/51/51/51	-
16	CRT	Z	102	-	-	11/51/51/51	-
11	BCL	P	102	6	-	18/37/137/137	-
9	PGV	Z	103	-	-	11/46/46/55	-
11	BCL	b	102	6	-	24/37/137/137	-
11	BCL	A	101	-	-	24/37/137/137	-
16	CRT	j	101	-	-	5/51/51/51	-
11	BCL	O	101	-	-	12/37/137/137	-
11	BCL	L	402	-	-	8/37/137/137	-
11	BCL	V	102	6	-	19/37/137/137	-
9	PGV	M	408	-	-	11/43/43/55	-
16	CRT	A	103	-	-	4/51/51/51	-

All (894) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	C	503	HEC	C2B-C3B	-6.86	1.33	1.40
7	C	501	HEC	C2B-C3B	-6.33	1.34	1.40
7	C	503	HEC	C3C-C2C	-6.28	1.34	1.40
7	C	501	HEC	C3C-C2C	-6.18	1.34	1.40
7	C	504	HEC	C2B-C3B	-6.16	1.34	1.40
7	C	502	HEC	C2B-C3B	-6.06	1.34	1.40
7	C	504	HEC	C3C-C2C	-6.03	1.34	1.40
7	C	502	HEC	C3C-C2C	-5.92	1.34	1.40
11	L	401	BCL	C3D-C4D	-5.48	1.31	1.44
7	C	502	HEC	C3D-C2D	5.46	1.53	1.37
11	U	101	BCL	C3D-C4D	-5.45	1.31	1.44
11	L	402	BCL	C3D-C4D	-5.44	1.31	1.44
7	C	504	HEC	C3D-C2D	5.37	1.53	1.37
11	M	402	BCL	C3D-C4D	-5.31	1.32	1.44
11	M	403	BCL	C3D-C4D	-5.31	1.32	1.44
7	C	501	HEC	C3D-C2D	5.27	1.53	1.37
7	C	503	HEC	C3D-C2D	5.24	1.53	1.37
11	i	101	BCL	C3D-C4D	-5.23	1.32	1.44
11	b	102	BCL	C3D-C4D	-5.20	1.32	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	K	101	BCL	C3D-C4D	-5.14	1.32	1.44
11	A	101	BCL	C3D-C4D	-5.14	1.32	1.44
11	T	101	BCL	C3D-C4D	-5.12	1.32	1.44
11	N	101	BCL	C3D-C4D	-5.12	1.32	1.44
11	g	101	BCL	C3D-C4D	-5.12	1.32	1.44
11	b	101	BCL	C3D-C4D	-5.10	1.32	1.44
11	W	101	BCL	C3D-C4D	-5.09	1.32	1.44
11	f	101	BCL	C3D-C4D	-5.09	1.32	1.44
11	V	101	BCL	C3D-C4D	-5.08	1.32	1.44
11	O	101	BCL	C1D-ND	-5.04	1.31	1.37
11	T	102	BCL	C3D-C4D	-5.04	1.32	1.44
11	J	101	BCL	C3D-C4D	-5.04	1.32	1.44
11	j	103	BCL	C3D-C4D	-5.03	1.32	1.44
11	G	101	BCL	C3D-C4D	-5.03	1.32	1.44
11	c	101	BCL	C3D-C4D	-5.03	1.32	1.44
11	F	101	BCL	C3D-C4D	-5.02	1.32	1.44
11	d	101	BCL	C3D-C4D	-5.00	1.32	1.44
11	Y	101	BCL	C3D-C4D	-5.00	1.32	1.44
11	E	101	BCL	C3D-C4D	-4.99	1.32	1.44
11	P	102	BCL	C3D-C4D	-4.99	1.32	1.44
11	P	101	BCL	C3D-C4D	-4.97	1.33	1.44
11	d	102	BCL	C3D-C4D	-4.97	1.33	1.44
11	O	101	BCL	C3D-C4D	-4.96	1.33	1.44
11	J	102	BCL	C3D-C4D	-4.96	1.33	1.44
11	e	101	BCL	C3D-C4D	-4.95	1.33	1.44
11	R	101	BCL	C3D-C4D	-4.95	1.33	1.44
11	a	101	BCL	C3D-C4D	-4.93	1.33	1.44
11	S	101	BCL	C3D-C4D	-4.93	1.33	1.44
11	R	102	BCL	C3D-C4D	-4.92	1.33	1.44
11	G	102	BCL	C3D-C4D	-4.91	1.33	1.44
11	X	102	BCL	C3D-C4D	-4.91	1.33	1.44
11	f	102	BCL	C3D-C4D	-4.90	1.33	1.44
11	V	102	BCL	C3D-C4D	-4.90	1.33	1.44
11	E	102	BCL	O2D-CGD	4.88	1.45	1.33
11	Q	101	BCL	C3D-C4D	-4.86	1.33	1.44
11	X	101	BCL	C3D-C4D	-4.86	1.33	1.44
11	E	102	BCL	C3D-C4D	-4.85	1.33	1.44
11	A	102	BCL	O2D-CGD	4.84	1.45	1.33
11	D	101	BCL	C3D-C4D	-4.84	1.33	1.44
11	L	402	BCL	O2D-CGD	4.84	1.45	1.33
11	j	102	BCL	C3D-C4D	-4.84	1.33	1.44
11	B	101	BCL	C3B-C2B	4.83	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	B	101	BCL	C1D-ND	-4.81	1.31	1.37
11	h	101	BCL	C3D-C4D	-4.81	1.33	1.44
11	M	403	BCL	O2D-CGD	4.81	1.44	1.33
11	d	101	BCL	O2D-CGD	4.80	1.44	1.33
11	j	103	BCL	O2D-CGD	4.80	1.44	1.33
11	h	102	BCL	C3D-C4D	-4.79	1.33	1.44
11	L	402	BCL	C3B-C2B	4.78	1.48	1.39
11	d	102	BCL	O2D-CGD	4.77	1.44	1.33
11	B	101	BCL	C3D-C4D	-4.76	1.33	1.44
11	F	101	BCL	C1D-ND	-4.74	1.32	1.37
11	Z	101	BCL	C3D-C4D	-4.73	1.33	1.44
11	R	101	BCL	C1D-ND	-4.73	1.32	1.37
11	D	101	BCL	C3B-C2B	4.73	1.47	1.39
11	I	101	BCL	C3D-C4D	-4.70	1.33	1.44
11	U	101	BCL	C1D-ND	-4.70	1.32	1.37
11	F	101	BCL	O2D-CGD	4.70	1.44	1.33
11	N	102	BCL	O2D-CGD	4.70	1.44	1.33
11	N	102	BCL	C3D-C4D	-4.68	1.33	1.44
11	A	102	BCL	C3D-C4D	-4.68	1.33	1.44
11	f	102	BCL	O2D-CGD	4.67	1.44	1.33
11	W	101	BCL	C3B-C2B	4.66	1.47	1.39
11	P	102	BCL	O2D-CGD	4.63	1.44	1.33
11	V	102	BCL	O2D-CGD	4.62	1.44	1.33
11	K	101	BCL	O2D-CGD	4.61	1.44	1.33
11	G	102	BCL	O2D-CGD	4.61	1.44	1.33
11	L	401	BCL	C3B-C2B	4.60	1.47	1.39
11	D	101	BCL	C1D-ND	-4.60	1.32	1.37
11	Y	101	BCL	O2D-CGD	4.60	1.44	1.33
11	X	102	BCL	O2D-CGD	4.59	1.44	1.33
11	h	102	BCL	O2D-CGD	4.59	1.44	1.33
11	T	102	BCL	O2D-CGD	4.57	1.44	1.33
11	a	101	BCL	O2A-CGA	4.55	1.46	1.33
11	R	102	BCL	O2D-CGD	4.54	1.44	1.33
11	e	101	BCL	C1D-ND	-4.53	1.32	1.37
11	S	101	BCL	O2D-CGD	4.51	1.44	1.33
11	U	101	BCL	O2D-CGD	4.50	1.44	1.33
11	K	101	BCL	C3B-C2B	4.50	1.47	1.39
11	e	101	BCL	O2D-CGD	4.50	1.44	1.33
11	a	101	BCL	C3B-C2B	4.49	1.47	1.39
11	B	101	BCL	O2D-CGD	4.49	1.44	1.33
11	g	101	BCL	O2D-CGD	4.49	1.44	1.33
11	c	101	BCL	O2D-CGD	4.48	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	O	101	BCL	C3B-C2B	4.48	1.47	1.39
11	b	101	BCL	C1D-ND	-4.48	1.32	1.37
11	U	101	BCL	C3B-C2B	4.47	1.47	1.39
11	R	101	BCL	O2D-CGD	4.47	1.44	1.33
11	a	101	BCL	C1D-ND	-4.46	1.32	1.37
11	A	102	BCL	C3B-C2B	4.46	1.47	1.39
11	L	401	BCL	O2D-CGD	4.45	1.44	1.33
11	c	101	BCL	O2A-CGA	4.45	1.46	1.33
11	I	101	BCL	C3B-C2B	4.45	1.47	1.39
11	h	101	BCL	O2D-CGD	4.45	1.44	1.33
11	f	102	BCL	C3B-C2B	4.43	1.47	1.39
11	Q	101	BCL	O2D-CGD	4.43	1.44	1.33
11	i	101	BCL	C3B-C2B	4.42	1.47	1.39
11	a	101	BCL	O2D-CGD	4.41	1.44	1.33
11	Y	101	BCL	C1D-ND	-4.40	1.32	1.37
11	O	101	BCL	O2D-CGD	4.40	1.43	1.33
11	A	101	BCL	C1D-ND	-4.40	1.32	1.37
11	G	101	BCL	O2D-CGD	4.39	1.43	1.33
16	Z	102	CRT	C9-C7	4.39	1.41	1.35
11	b	101	BCL	O2D-CGD	4.39	1.43	1.33
11	I	101	BCL	O2D-CGD	4.39	1.43	1.33
11	X	101	BCL	O2D-CGD	4.39	1.43	1.33
11	g	101	BCL	C3B-C2B	4.39	1.47	1.39
11	Q	101	BCL	C1D-ND	-4.38	1.32	1.37
11	f	101	BCL	O2D-CGD	4.36	1.43	1.33
11	U	101	BCL	O2A-CGA	4.36	1.46	1.33
11	P	101	BCL	O2D-CGD	4.36	1.43	1.33
11	J	102	BCL	O2D-CGD	4.36	1.43	1.33
11	M	403	BCL	C3B-C2B	4.36	1.47	1.39
11	j	102	BCL	O2D-CGD	4.36	1.43	1.33
11	Y	101	BCL	C3B-C2B	4.35	1.47	1.39
11	T	101	BCL	O2D-CGD	4.34	1.43	1.33
11	Q	101	BCL	C3B-C2B	4.33	1.47	1.39
11	A	101	BCL	O2D-CGD	4.31	1.43	1.33
11	M	403	BCL	C1D-ND	-4.31	1.32	1.37
11	j	102	BCL	C1D-ND	-4.31	1.32	1.37
11	I	101	BCL	O2A-CGA	4.31	1.45	1.33
11	W	101	BCL	O2D-CGD	4.30	1.43	1.33
11	M	402	BCL	C3B-C2B	4.30	1.47	1.39
11	d	101	BCL	C3B-C2B	4.29	1.47	1.39
11	c	101	BCL	C3B-C2B	4.29	1.47	1.39
11	N	101	BCL	O2D-CGD	4.28	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	Q	101	BCL	O2A-CGA	4.28	1.45	1.33
11	S	101	BCL	C3B-C2B	4.27	1.47	1.39
11	M	402	BCL	C1D-ND	-4.27	1.32	1.37
11	h	102	BCL	C3B-C2B	4.27	1.47	1.39
11	N	101	BCL	C1D-ND	-4.27	1.32	1.37
11	e	101	BCL	O2A-CGA	4.26	1.45	1.33
9	R	104	PGV	O01-C1	4.26	1.46	1.34
11	E	101	BCL	O2D-CGD	4.23	1.43	1.33
11	Z	101	BCL	O2D-CGD	4.23	1.43	1.33
11	f	101	BCL	C3B-C2B	4.23	1.47	1.39
9	M	407	PGV	O03-C19	4.22	1.45	1.33
11	i	101	BCL	O2D-CGD	4.22	1.43	1.33
11	e	101	BCL	C3B-C2B	4.22	1.47	1.39
9	C	508	PGV	O03-C19	4.22	1.45	1.33
11	V	101	BCL	C1D-ND	-4.22	1.32	1.37
11	c	101	BCL	C1D-ND	-4.21	1.32	1.37
11	L	402	BCL	O2A-CGA	4.21	1.45	1.33
11	h	102	BCL	O2A-CGA	4.21	1.45	1.33
11	f	101	BCL	O2A-CGA	4.21	1.45	1.33
11	S	101	BCL	O2A-CGA	4.20	1.45	1.33
11	P	101	BCL	C1D-ND	-4.20	1.32	1.37
11	V	101	BCL	O2D-CGD	4.20	1.43	1.33
11	J	101	BCL	O2D-CGD	4.20	1.43	1.33
11	P	102	BCL	C3B-C2B	4.20	1.47	1.39
11	W	101	BCL	C1D-ND	-4.20	1.32	1.37
9	M	408	PGV	O03-C19	4.19	1.45	1.33
9	Z	103	PGV	O03-C19	4.19	1.45	1.33
11	F	101	BCL	C3B-C2B	4.19	1.46	1.39
11	Z	101	BCL	C3B-C2B	4.19	1.46	1.39
11	D	101	BCL	O2D-CGD	4.18	1.43	1.33
9	M	408	PGV	O01-C1	4.17	1.46	1.34
9	H	302	PGV	O03-C19	4.17	1.45	1.33
11	d	102	BCL	C3B-C2B	4.17	1.46	1.39
9	R	104	PGV	O03-C19	4.17	1.45	1.33
11	T	101	BCL	C1D-ND	-4.17	1.32	1.37
11	F	101	BCL	O2A-CGA	4.16	1.45	1.33
11	b	102	BCL	O2D-CGD	4.15	1.43	1.33
11	X	102	BCL	O2A-CGA	4.15	1.45	1.33
11	g	101	BCL	C1D-ND	-4.15	1.32	1.37
11	A	101	BCL	C3B-C2B	4.14	1.46	1.39
11	G	101	BCL	C1D-ND	-4.14	1.32	1.37
11	K	101	BCL	C1D-ND	-4.14	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	H	301	PGV	O03-C19	4.14	1.45	1.33
11	b	102	BCL	O2A-CGA	4.13	1.45	1.33
11	i	101	BCL	O2A-CGA	4.13	1.45	1.33
11	Y	101	BCL	O2A-CGA	4.13	1.45	1.33
11	d	101	BCL	C1D-ND	-4.13	1.32	1.37
11	j	103	BCL	O2A-CGA	4.13	1.45	1.33
11	S	101	BCL	C1D-ND	-4.13	1.32	1.37
11	T	102	BCL	C3B-C2B	4.12	1.46	1.39
11	A	102	BCL	O2A-CGA	4.12	1.45	1.33
11	i	101	BCL	C1D-ND	-4.12	1.32	1.37
11	I	101	BCL	C1D-ND	-4.11	1.32	1.37
16	K	102	CRT	C9-C7	4.11	1.41	1.35
9	C	508	PGV	O01-C1	4.09	1.45	1.34
11	R	102	BCL	O2A-CGA	4.09	1.45	1.33
11	R	102	BCL	C3B-C2B	4.09	1.46	1.39
11	b	101	BCL	C3B-C2B	4.08	1.46	1.39
11	O	101	BCL	O2A-CGA	4.08	1.45	1.33
9	Z	103	PGV	O01-C1	4.08	1.45	1.34
11	R	101	BCL	C3B-C2B	4.08	1.46	1.39
11	B	101	BCL	O2A-CGA	4.07	1.45	1.33
11	V	102	BCL	C3B-C2B	4.07	1.46	1.39
11	R	101	BCL	O2A-CGA	4.07	1.45	1.33
11	f	101	BCL	C1D-ND	-4.07	1.32	1.37
16	Z	102	CRT	C19-C17	4.06	1.41	1.35
16	Z	102	CRT	C22-C23	4.06	1.41	1.35
11	D	101	BCL	O2A-CGA	4.06	1.45	1.33
11	K	101	BCL	O2A-CGA	4.05	1.45	1.33
11	M	402	BCL	O2D-CGD	4.04	1.43	1.33
9	H	301	PGV	O01-C1	4.04	1.45	1.34
9	H	302	PGV	O01-C1	4.04	1.45	1.34
11	X	101	BCL	C3B-C2B	4.04	1.46	1.39
11	g	101	BCL	O2A-CGA	4.04	1.45	1.33
11	E	102	BCL	C3B-C2B	4.03	1.46	1.39
9	M	407	PGV	O01-C1	4.03	1.45	1.34
16	Z	102	CRT	C14-C12	4.03	1.41	1.35
11	G	102	BCL	O2A-CGA	4.01	1.45	1.33
11	j	102	BCL	O2A-CGA	4.00	1.45	1.33
16	Y	102	CRT	C22-C23	4.00	1.41	1.35
11	J	101	BCL	C3B-C2B	3.99	1.46	1.39
11	N	101	BCL	C3B-C2B	3.99	1.46	1.39
11	Z	101	BCL	O2A-CGA	3.99	1.45	1.33
16	Y	102	CRT	C9-C7	3.96	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	Y	102	CRT	C27-C28	3.96	1.41	1.35
11	X	101	BCL	C1D-ND	-3.96	1.32	1.37
11	T	101	BCL	O2A-CGA	3.96	1.44	1.33
11	W	101	BCL	O2A-CGA	3.95	1.44	1.33
11	J	101	BCL	C1D-ND	-3.95	1.32	1.37
12	M	404	BPH	CBD-CGD	-3.95	1.47	1.52
16	Y	102	CRT	C19-C17	3.94	1.41	1.35
16	Z	102	CRT	C27-C28	3.94	1.41	1.35
11	d	101	BCL	O2A-CGA	3.94	1.44	1.33
11	Z	101	BCL	C1D-ND	-3.94	1.32	1.37
11	J	102	BCL	O2A-CGA	3.94	1.44	1.33
11	V	101	BCL	O2A-CGA	3.93	1.44	1.33
16	Z	102	CRT	C32-C33	3.93	1.41	1.35
11	L	402	BCL	C1D-ND	-3.92	1.33	1.37
16	Y	102	CRT	C14-C12	3.92	1.41	1.35
11	M	403	BCL	C4B-NB	-3.92	1.31	1.35
11	T	101	BCL	C3B-C2B	3.91	1.46	1.39
16	M	406	CRT	C22-C23	3.91	1.41	1.35
11	b	101	BCL	O2A-CGA	3.90	1.44	1.33
11	V	102	BCL	O2A-CGA	3.90	1.44	1.33
11	T	102	BCL	O2A-CGA	3.89	1.44	1.33
11	h	101	BCL	C1D-ND	-3.89	1.33	1.37
11	G	101	BCL	C3B-C2B	3.88	1.46	1.39
11	f	102	BCL	O2A-CGA	3.88	1.44	1.33
11	M	402	BCL	O2A-CGA	3.88	1.44	1.33
11	d	102	BCL	O2A-CGA	3.88	1.44	1.33
11	J	101	BCL	O2A-CGA	3.87	1.44	1.33
11	L	401	BCL	O2A-CGA	3.86	1.44	1.33
11	G	101	BCL	O2A-CGA	3.86	1.44	1.33
16	j	101	CRT	C22-C23	3.86	1.40	1.35
11	X	102	BCL	C3B-C2B	3.85	1.46	1.39
11	P	102	BCL	O2A-CGA	3.85	1.44	1.33
11	X	101	BCL	O2A-CGA	3.85	1.44	1.33
11	A	101	BCL	O2A-CGA	3.85	1.44	1.33
16	B	102	CRT	C22-C23	3.84	1.40	1.35
11	E	101	BCL	O2A-CGA	3.84	1.44	1.33
11	M	403	BCL	O2A-CGA	3.84	1.44	1.33
16	K	102	CRT	C19-C17	3.84	1.40	1.35
11	h	101	BCL	O2A-CGA	3.83	1.44	1.33
16	Y	102	CRT	C32-C33	3.83	1.40	1.35
11	j	103	BCL	C3B-C2B	3.82	1.46	1.39
11	h	101	BCL	C3B-C2B	3.82	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	U	102	CRT	C9-C7	3.82	1.40	1.35
11	E	101	BCL	C4B-NB	-3.82	1.31	1.35
11	V	101	BCL	C3B-C2B	3.82	1.46	1.39
16	U	102	CRT	C19-C17	3.81	1.40	1.35
9	L	410	PGV	O01-C1	3.81	1.45	1.34
16	U	102	CRT	C22-C23	3.80	1.40	1.35
16	I	102	CRT	C22-C23	3.79	1.40	1.35
16	N	103	CRT	C22-C23	3.79	1.40	1.35
9	L	410	PGV	O03-C19	3.77	1.44	1.33
16	M	406	CRT	C27-C28	3.76	1.40	1.35
16	K	102	CRT	C22-C23	3.76	1.40	1.35
11	P	101	BCL	C3B-C2B	3.76	1.46	1.39
16	j	101	CRT	C14-C12	3.76	1.40	1.35
16	j	101	CRT	C27-C28	3.75	1.40	1.35
11	J	102	BCL	C3B-C2B	3.75	1.46	1.39
16	K	102	CRT	C27-C28	3.75	1.40	1.35
11	E	102	BCL	O2A-CGA	3.75	1.44	1.33
16	K	102	CRT	C14-C12	3.75	1.40	1.35
16	e	102	CRT	C22-C23	3.75	1.40	1.35
16	j	101	CRT	C19-C17	3.74	1.40	1.35
16	I	102	CRT	C9-C7	3.74	1.40	1.35
16	W	102	CRT	C9-C7	3.74	1.40	1.35
16	N	103	CRT	C9-C7	3.73	1.40	1.35
16	e	102	CRT	C14-C12	3.73	1.40	1.35
11	N	102	BCL	C3B-C2B	3.72	1.46	1.39
12	L	403	BPH	CBD-CGD	-3.72	1.47	1.52
16	U	102	CRT	C27-C28	3.71	1.40	1.35
16	M	406	CRT	C9-C7	3.71	1.40	1.35
11	L	401	BCL	C1D-ND	-3.71	1.33	1.37
16	j	101	CRT	C9-C7	3.71	1.40	1.35
16	e	102	CRT	C9-C7	3.70	1.40	1.35
16	B	102	CRT	C9-C7	3.70	1.40	1.35
16	P	103	CRT	C22-C23	3.70	1.40	1.35
11	E	101	BCL	C1D-ND	-3.70	1.33	1.37
16	R	103	CRT	C9-C7	3.70	1.40	1.35
16	R	103	CRT	C22-C23	3.70	1.40	1.35
16	I	102	CRT	C19-C17	3.70	1.40	1.35
16	A	103	CRT	C9-C7	3.69	1.40	1.35
11	A	102	BCL	OBD-CAD	3.69	1.28	1.22
11	N	102	BCL	O2A-CGA	3.69	1.44	1.33
16	U	102	CRT	C14-C12	3.68	1.40	1.35
16	i	102	CRT	C22-C23	3.68	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	b	102	BCL	C1D-ND	-3.68	1.33	1.37
11	b	102	BCL	C3B-C2B	3.67	1.46	1.39
16	A	103	CRT	C22-C23	3.67	1.40	1.35
16	a	102	CRT	C22-C23	3.67	1.40	1.35
16	N	103	CRT	C27-C28	3.66	1.40	1.35
16	e	102	CRT	C27-C28	3.66	1.40	1.35
16	i	102	CRT	C9-C7	3.66	1.40	1.35
16	M	406	CRT	C19-C17	3.65	1.40	1.35
16	B	102	CRT	C19-C17	3.65	1.40	1.35
11	A	101	BCL	C4B-NB	-3.65	1.32	1.35
16	N	103	CRT	C14-C12	3.65	1.40	1.35
16	a	102	CRT	C19-C17	3.64	1.40	1.35
16	W	102	CRT	C22-C23	3.64	1.40	1.35
16	a	102	CRT	C9-C7	3.64	1.40	1.35
11	T	101	BCL	C3C-C4C	-3.64	1.47	1.51
16	E	103	CRT	C22-C23	3.63	1.40	1.35
16	M	406	CRT	C14-C12	3.63	1.40	1.35
11	N	101	BCL	O2A-CGA	3.63	1.44	1.33
16	a	102	CRT	C14-C12	3.63	1.40	1.35
16	P	103	CRT	C9-C7	3.63	1.40	1.35
16	P	103	CRT	C14-C12	3.63	1.40	1.35
16	e	102	CRT	C19-C17	3.63	1.40	1.35
11	E	101	BCL	C3B-C2B	3.62	1.45	1.39
16	P	103	CRT	C19-C17	3.61	1.40	1.35
16	I	102	CRT	C32-C33	3.60	1.40	1.35
16	U	102	CRT	C32-C33	3.60	1.40	1.35
16	I	102	CRT	C14-C12	3.59	1.40	1.35
16	W	102	CRT	C27-C28	3.59	1.40	1.35
16	R	103	CRT	C14-C12	3.59	1.40	1.35
16	R	103	CRT	C19-C17	3.59	1.40	1.35
11	j	103	BCL	C1D-ND	-3.58	1.33	1.37
16	N	103	CRT	C19-C17	3.58	1.40	1.35
16	B	102	CRT	C14-C12	3.58	1.40	1.35
16	W	102	CRT	C14-C12	3.58	1.40	1.35
16	B	102	CRT	C27-C28	3.58	1.40	1.35
16	a	102	CRT	C27-C28	3.57	1.40	1.35
16	i	102	CRT	C19-C17	3.57	1.40	1.35
11	X	101	BCL	C3C-C4C	-3.56	1.47	1.51
16	N	103	CRT	C32-C33	3.56	1.40	1.35
16	E	103	CRT	C14-C12	3.56	1.40	1.35
16	W	102	CRT	C19-C17	3.55	1.40	1.35
16	P	103	CRT	C27-C28	3.55	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	i	102	CRT	C14-C12	3.55	1.40	1.35
16	E	103	CRT	C19-C17	3.55	1.40	1.35
16	R	103	CRT	C27-C28	3.55	1.40	1.35
16	I	102	CRT	C27-C28	3.54	1.40	1.35
16	A	103	CRT	C19-C17	3.54	1.40	1.35
16	E	103	CRT	C9-C7	3.53	1.40	1.35
16	A	103	CRT	C14-C12	3.52	1.40	1.35
16	E	103	CRT	C27-C28	3.52	1.40	1.35
16	e	102	CRT	C32-C33	3.51	1.40	1.35
16	K	102	CRT	C32-C33	3.50	1.40	1.35
11	h	101	BCL	C4B-NB	-3.50	1.32	1.35
11	P	101	BCL	O2A-CGA	3.50	1.43	1.33
16	W	102	CRT	C32-C33	3.50	1.40	1.35
11	J	101	BCL	C4B-NB	-3.49	1.32	1.35
16	M	406	CRT	C32-C33	3.49	1.40	1.35
16	i	102	CRT	C27-C28	3.48	1.40	1.35
11	T	102	BCL	C1D-ND	-3.48	1.33	1.37
16	R	103	CRT	C32-C33	3.47	1.40	1.35
11	G	102	BCL	C3B-C2B	3.47	1.45	1.39
16	a	102	CRT	C32-C33	3.47	1.40	1.35
11	B	101	BCL	C3C-C4C	-3.47	1.47	1.51
16	i	102	CRT	C32-C33	3.46	1.40	1.35
11	j	102	BCL	C3C-C4C	-3.45	1.47	1.51
16	P	103	CRT	C32-C33	3.45	1.40	1.35
16	j	101	CRT	C32-C33	3.44	1.40	1.35
11	J	102	BCL	C1D-ND	-3.44	1.33	1.37
16	B	102	CRT	C32-C33	3.44	1.40	1.35
16	A	103	CRT	C27-C28	3.44	1.40	1.35
11	E	102	BCL	CHD-C1D	3.43	1.45	1.38
11	P	102	BCL	C1D-ND	-3.43	1.33	1.37
11	j	102	BCL	C3B-C2B	3.43	1.45	1.39
11	V	102	BCL	C1D-ND	-3.43	1.33	1.37
11	d	102	BCL	CHD-C1D	3.42	1.45	1.38
11	N	101	BCL	C3C-C4C	-3.42	1.47	1.51
11	M	403	BCL	MG-NA	-3.41	1.98	2.06
11	j	102	BCL	C4B-NB	-3.40	1.32	1.35
11	j	103	BCL	OBD-CAD	3.40	1.28	1.22
11	L	401	BCL	C4B-NB	-3.39	1.32	1.35
11	X	102	BCL	C1D-ND	-3.38	1.33	1.37
16	E	103	CRT	C32-C33	3.38	1.40	1.35
11	R	101	BCL	C3C-C4C	-3.37	1.47	1.51
11	N	102	BCL	OBD-CAD	3.37	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	E	102	BCL	C1D-ND	-3.37	1.33	1.37
11	P	101	BCL	C3C-C4C	-3.33	1.47	1.51
11	G	102	BCL	CHD-C1D	3.33	1.44	1.38
11	a	101	BCL	C3C-C4C	-3.32	1.47	1.51
11	g	101	BCL	C3C-C4C	-3.32	1.47	1.51
11	h	102	BCL	OBD-CAD	3.32	1.28	1.22
11	J	101	BCL	C3C-C4C	-3.31	1.47	1.51
16	A	103	CRT	C32-C33	3.31	1.40	1.35
11	U	101	BCL	C3C-C4C	-3.30	1.47	1.51
11	E	101	BCL	C3C-C4C	-3.29	1.47	1.51
11	d	102	BCL	OBD-CAD	3.29	1.28	1.22
11	d	102	BCL	C1D-ND	-3.27	1.33	1.37
11	Z	101	BCL	C3C-C4C	-3.27	1.47	1.51
11	X	102	BCL	CHD-C1D	3.27	1.44	1.38
11	A	101	BCL	C3C-C4C	-3.25	1.47	1.51
11	R	101	BCL	C4B-NB	-3.25	1.32	1.35
11	L	401	BCL	CHD-C1D	3.25	1.44	1.38
11	J	102	BCL	OBD-CAD	3.24	1.28	1.22
11	R	102	BCL	CHD-C1D	3.21	1.44	1.38
11	I	101	BCL	C3C-C4C	-3.20	1.47	1.51
11	e	101	BCL	C3C-C4C	-3.20	1.47	1.51
11	b	102	BCL	C4B-NB	-3.18	1.32	1.35
11	G	101	BCL	MG-NA	-3.18	1.98	2.06
11	G	101	BCL	C3C-C4C	-3.17	1.47	1.51
11	T	102	BCL	CHD-C1D	3.17	1.44	1.38
11	f	102	BCL	C1D-ND	-3.17	1.33	1.37
11	Q	101	BCL	C3C-C4C	-3.17	1.47	1.51
11	V	102	BCL	CHD-C1D	3.17	1.44	1.38
11	T	102	BCL	OBD-CAD	3.17	1.27	1.22
11	F	101	BCL	C3C-C4C	-3.16	1.47	1.51
11	G	102	BCL	C1D-ND	-3.16	1.33	1.37
11	b	101	BCL	C3C-C4C	-3.15	1.47	1.51
11	P	101	BCL	MG-NA	-3.15	1.98	2.06
11	W	101	BCL	C3C-C4C	-3.14	1.47	1.51
11	A	102	BCL	CHD-C1D	3.14	1.44	1.38
11	R	102	BCL	OBD-CAD	3.14	1.27	1.22
11	M	402	BCL	MG-NA	-3.13	1.98	2.06
11	f	102	BCL	OBD-CAD	3.11	1.27	1.22
11	V	102	BCL	OBD-CAD	3.10	1.27	1.22
11	f	101	BCL	MG-NA	-3.09	1.98	2.06
11	V	101	BCL	C3C-C4C	-3.07	1.47	1.51
11	h	101	BCL	C3C-C4C	-3.07	1.47	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	N	102	BCL	C3D-C2D	3.07	1.47	1.39
11	G	101	BCL	C4B-NB	-3.07	1.32	1.35
11	S	101	BCL	CHD-C1D	3.07	1.44	1.38
11	Q	101	BCL	C3D-C2D	3.06	1.47	1.39
11	X	102	BCL	OBD-CAD	3.05	1.27	1.22
11	D	101	BCL	C4B-NB	-3.05	1.32	1.35
11	M	402	BCL	C3D-C2D	3.04	1.47	1.39
11	f	102	BCL	CHD-C1D	3.04	1.44	1.38
11	P	102	BCL	OBD-CAD	3.03	1.27	1.22
11	J	102	BCL	C4B-NB	-3.03	1.32	1.35
11	G	102	BCL	OBD-CAD	3.03	1.27	1.22
11	N	102	BCL	CHD-C1D	3.03	1.44	1.38
11	h	102	BCL	C1D-ND	-3.03	1.34	1.37
11	h	102	BCL	CHD-C1D	3.03	1.44	1.38
11	f	101	BCL	C4B-NB	-3.03	1.32	1.35
11	Z	101	BCL	OBD-CAD	3.02	1.27	1.22
11	K	101	BCL	CHD-C1D	3.01	1.44	1.38
11	E	102	BCL	OBD-CAD	3.01	1.27	1.22
11	R	102	BCL	C1D-ND	-3.00	1.34	1.37
11	d	101	BCL	MG-NA	-3.00	1.99	2.06
11	K	101	BCL	C3C-C4C	-2.99	1.47	1.51
11	J	101	BCL	MG-NA	-2.99	1.99	2.06
11	L	401	BCL	MG-NA	-2.99	1.99	2.06
11	G	102	BCL	C3D-C2D	2.99	1.47	1.39
11	N	102	BCL	C1D-ND	-2.98	1.34	1.37
11	j	102	BCL	MG-NA	-2.97	1.99	2.06
11	h	101	BCL	MG-NA	-2.96	1.99	2.06
11	S	101	BCL	C3C-C4C	-2.96	1.47	1.51
11	b	102	BCL	CHD-C1D	2.96	1.44	1.38
11	I	101	BCL	CHD-C1D	2.95	1.44	1.38
11	A	102	BCL	C1D-ND	-2.94	1.34	1.37
11	T	101	BCL	C4B-NB	-2.94	1.32	1.35
11	d	101	BCL	C3C-C4C	-2.93	1.47	1.51
11	Z	101	BCL	C3D-C2D	2.93	1.47	1.39
11	B	101	BCL	C4B-NB	-2.92	1.32	1.35
11	j	103	BCL	C3D-C2D	2.92	1.47	1.39
11	J	102	BCL	C3D-C2D	2.91	1.47	1.39
11	b	102	BCL	C3D-C2D	2.91	1.47	1.39
11	Y	101	BCL	C3D-C2D	2.91	1.47	1.39
11	T	101	BCL	C3D-C2D	2.91	1.47	1.39
11	P	102	BCL	C3D-C2D	2.91	1.47	1.39
11	c	101	BCL	OBD-CAD	2.90	1.27	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	X	101	BCL	MG-NA	-2.90	1.99	2.06
11	R	101	BCL	C3D-C2D	2.89	1.47	1.39
11	b	101	BCL	MG-NA	-2.89	1.99	2.06
11	c	101	BCL	CHD-C1D	2.89	1.44	1.38
11	P	102	BCL	CHD-C1D	2.88	1.44	1.38
11	J	102	BCL	CHD-C1D	2.88	1.44	1.38
11	I	101	BCL	C3D-C2D	2.87	1.47	1.39
11	T	101	BCL	MG-NA	-2.87	1.99	2.06
11	E	102	BCL	C3D-C2D	2.86	1.46	1.39
11	L	401	BCL	C3D-C2D	2.85	1.46	1.39
11	b	101	BCL	C3D-C2D	2.85	1.46	1.39
11	X	102	BCL	C3D-C2D	2.85	1.46	1.39
11	M	402	BCL	OBD-CAD	2.84	1.27	1.22
11	O	101	BCL	C3D-C2D	2.84	1.46	1.39
11	S	101	BCL	C3D-C2D	2.84	1.46	1.39
11	A	102	BCL	C3D-C2D	2.83	1.46	1.39
11	V	102	BCL	C3D-C2D	2.83	1.46	1.39
11	h	102	BCL	C3D-C2D	2.83	1.46	1.39
11	W	101	BCL	C3D-C2D	2.83	1.46	1.39
11	F	101	BCL	C3D-C2D	2.82	1.46	1.39
11	j	102	BCL	C3D-C2D	2.82	1.46	1.39
11	a	101	BCL	C3D-C2D	2.82	1.46	1.39
11	X	101	BCL	C3D-C2D	2.82	1.46	1.39
11	i	101	BCL	C3D-C2D	2.82	1.46	1.39
11	B	101	BCL	C3D-C2D	2.81	1.46	1.39
11	b	102	BCL	OBD-CAD	2.81	1.27	1.22
11	T	102	BCL	C3D-C2D	2.80	1.46	1.39
11	G	102	BCL	C4B-NB	-2.80	1.32	1.35
11	R	102	BCL	C3D-C2D	2.80	1.46	1.39
11	Z	101	BCL	MG-NA	-2.80	1.99	2.06
11	j	103	BCL	CHD-C1D	2.80	1.43	1.38
11	X	101	BCL	C4B-NB	-2.80	1.32	1.35
11	P	102	BCL	MG-NA	-2.79	1.99	2.06
11	O	101	BCL	C3C-C4C	-2.79	1.48	1.51
11	E	101	BCL	MG-NA	-2.79	1.99	2.06
11	f	102	BCL	C3D-C2D	2.79	1.46	1.39
11	c	101	BCL	C3D-C2D	2.79	1.46	1.39
11	S	101	BCL	C4B-NB	-2.79	1.32	1.35
11	A	101	BCL	MG-NA	-2.79	1.99	2.06
11	c	101	BCL	C3C-C4C	-2.78	1.48	1.51
11	K	101	BCL	C3D-C2D	2.78	1.46	1.39
11	e	101	BCL	MG-NA	-2.77	1.99	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	K	101	BCL	OBD-CAD	2.77	1.27	1.22
11	R	102	BCL	C4B-NB	-2.77	1.32	1.35
11	d	101	BCL	C3D-C2D	2.76	1.46	1.39
11	J	101	BCL	C3D-C2D	2.75	1.46	1.39
11	D	101	BCL	C3D-C2D	2.75	1.46	1.39
11	U	101	BCL	MG-NA	-2.75	1.99	2.06
11	f	101	BCL	C3C-C4C	-2.75	1.48	1.51
11	W	101	BCL	CHD-C1D	2.74	1.43	1.38
11	A	102	BCL	C3C-C4C	-2.73	1.48	1.51
11	G	101	BCL	C3D-C2D	2.73	1.46	1.39
11	A	102	BCL	MG-NA	-2.73	1.99	2.06
11	N	101	BCL	C3D-C2D	2.73	1.46	1.39
11	P	101	BCL	C3D-C2D	2.72	1.46	1.39
11	d	102	BCL	C3D-C2D	2.71	1.46	1.39
11	R	101	BCL	MG-NA	-2.71	1.99	2.06
11	e	101	BCL	OBD-CAD	2.70	1.27	1.22
11	P	101	BCL	C4B-NB	-2.70	1.32	1.35
11	e	101	BCL	C3D-C2D	2.70	1.46	1.39
11	f	101	BCL	C3D-C2D	2.70	1.46	1.39
11	T	102	BCL	MG-NA	-2.70	1.99	2.06
11	Q	101	BCL	MG-NA	-2.70	1.99	2.06
11	N	101	BCL	MG-NA	-2.69	1.99	2.06
16	A	103	CRT	C30-C28	-2.69	1.40	1.45
11	b	102	BCL	MG-NA	-2.69	1.99	2.06
16	M	406	CRT	C30-C28	-2.69	1.40	1.45
11	E	101	BCL	C3D-C2D	2.69	1.46	1.39
11	M	402	BCL	CHD-C1D	2.68	1.43	1.38
16	E	103	CRT	C25-C23	-2.68	1.40	1.45
11	L	402	BCL	CHD-C1D	2.68	1.43	1.38
11	i	101	BCL	C4B-NB	-2.68	1.32	1.35
11	i	101	BCL	C3C-C4C	-2.68	1.48	1.51
16	A	103	CRT	C25-C23	-2.68	1.40	1.45
11	V	101	BCL	C4B-NB	-2.67	1.32	1.35
11	N	102	BCL	MG-NA	-2.67	1.99	2.06
11	N	101	BCL	C4B-NB	-2.67	1.32	1.35
11	Z	101	BCL	CHD-C1D	2.67	1.43	1.38
11	L	402	BCL	C3D-C2D	2.67	1.46	1.39
11	A	101	BCL	OBD-CAD	2.67	1.27	1.22
11	i	101	BCL	MG-NA	-2.67	1.99	2.06
11	L	402	BCL	C3C-C4C	-2.67	1.48	1.51
11	U	101	BCL	C3D-C2D	2.67	1.46	1.39
11	V	101	BCL	C3D-C2D	2.66	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	b	101	BCL	C4B-NB	-2.65	1.32	1.35
11	I	101	BCL	OBD-CAD	2.65	1.27	1.22
11	D	101	BCL	C3C-C4C	-2.64	1.48	1.51
16	R	103	CRT	C25-C23	-2.64	1.40	1.45
16	P	103	CRT	C30-C28	-2.64	1.40	1.45
11	N	102	BCL	C4B-NB	-2.63	1.32	1.35
11	Y	101	BCL	C3C-C4C	-2.63	1.48	1.51
16	E	103	CRT	C30-C28	-2.63	1.40	1.45
11	P	101	BCL	OBD-CAD	2.63	1.27	1.22
11	d	102	BCL	CHD-C4C	2.62	1.46	1.39
11	i	101	BCL	CHD-C1D	2.62	1.43	1.38
16	R	103	CRT	C30-C28	-2.62	1.40	1.45
11	I	101	BCL	MG-NA	-2.61	2.00	2.06
16	i	102	CRT	C30-C28	-2.61	1.40	1.45
11	G	102	BCL	CHD-C4C	2.61	1.46	1.39
16	B	102	CRT	C25-C23	-2.61	1.40	1.45
16	i	102	CRT	C25-C23	-2.61	1.40	1.45
11	R	102	BCL	MG-NA	-2.60	2.00	2.06
11	h	101	BCL	C3D-C2D	2.60	1.46	1.39
16	P	103	CRT	C25-C23	-2.60	1.40	1.45
11	Y	101	BCL	CHD-C1D	2.60	1.43	1.38
11	X	102	BCL	CHD-C4C	2.60	1.46	1.39
11	F	101	BCL	MG-NA	-2.60	2.00	2.06
11	S	101	BCL	OBD-CAD	2.60	1.26	1.22
11	L	402	BCL	MG-NA	-2.59	2.00	2.06
11	V	101	BCL	MG-NA	-2.59	2.00	2.06
16	B	102	CRT	C30-C28	-2.59	1.40	1.45
16	e	102	CRT	C30-C28	-2.59	1.40	1.45
16	e	102	CRT	C25-C23	-2.59	1.40	1.45
11	O	101	BCL	C4B-NB	-2.58	1.32	1.35
16	a	102	CRT	C30-C28	-2.58	1.40	1.45
16	j	101	CRT	C30-C28	-2.58	1.40	1.45
16	W	102	CRT	C25-C23	-2.58	1.40	1.45
11	A	101	BCL	C3D-C2D	2.57	1.46	1.39
11	g	101	BCL	C3D-C2D	2.57	1.46	1.39
11	G	101	BCL	OBD-CAD	2.57	1.26	1.22
11	E	102	BCL	CHD-C4C	2.57	1.46	1.39
11	O	101	BCL	MG-NA	-2.57	2.00	2.06
16	I	102	CRT	C25-C23	-2.57	1.40	1.45
11	J	101	BCL	OBD-CAD	2.57	1.26	1.22
11	M	403	BCL	CHD-C1D	2.56	1.43	1.38
16	K	102	CRT	C30-C28	-2.56	1.40	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	d	101	BCL	CHD-C1D	2.56	1.43	1.38
11	J	102	BCL	MG-NA	-2.56	2.00	2.06
16	A	103	CRT	C16-C17	-2.56	1.40	1.45
11	f	102	BCL	CHD-C4C	2.55	1.46	1.39
11	A	102	BCL	CHD-C4C	2.55	1.46	1.39
16	M	406	CRT	C35-C33	-2.55	1.40	1.45
16	W	102	CRT	C35-C33	-2.55	1.40	1.45
16	a	102	CRT	C16-C17	-2.55	1.40	1.45
11	V	102	BCL	MG-NA	-2.55	2.00	2.06
11	U	101	BCL	OBD-CAD	2.55	1.26	1.22
16	W	102	CRT	C30-C28	-2.54	1.40	1.45
11	U	101	BCL	CHD-C1D	2.54	1.43	1.38
11	Y	101	BCL	OBD-CAD	2.54	1.26	1.22
11	X	101	BCL	OBD-CAD	2.54	1.26	1.22
11	O	101	BCL	CHD-C1D	2.54	1.43	1.38
11	b	101	BCL	CHD-C1D	2.54	1.43	1.38
16	P	103	CRT	C35-C33	-2.54	1.40	1.45
11	a	101	BCL	CHD-C1D	2.54	1.43	1.38
16	i	102	CRT	C35-C33	-2.54	1.40	1.45
16	K	102	CRT	C25-C23	-2.53	1.40	1.45
16	E	103	CRT	C35-C33	-2.53	1.40	1.45
11	e	101	BCL	CHD-C1D	2.53	1.43	1.38
16	K	102	CRT	C35-C33	-2.53	1.40	1.45
11	Y	101	BCL	C4B-NB	-2.53	1.33	1.35
11	Q	101	BCL	CHD-C1D	2.53	1.43	1.38
16	P	103	CRT	C16-C17	-2.52	1.40	1.45
16	R	103	CRT	C16-C17	-2.52	1.40	1.45
11	D	101	BCL	OBD-CAD	2.52	1.26	1.22
11	d	102	BCL	MG-NA	-2.52	2.00	2.06
16	j	101	CRT	C35-C33	-2.52	1.40	1.45
16	R	103	CRT	C35-C33	-2.52	1.40	1.45
16	U	102	CRT	C25-C23	-2.52	1.40	1.45
16	I	102	CRT	C30-C28	-2.52	1.40	1.45
16	j	101	CRT	C25-C23	-2.52	1.40	1.45
11	A	102	BCL	C4B-NB	-2.51	1.33	1.35
16	A	103	CRT	C35-C33	-2.51	1.40	1.45
16	W	102	CRT	C16-C17	-2.51	1.40	1.45
11	V	101	BCL	CHD-C1D	2.51	1.43	1.38
11	j	103	BCL	MG-NA	-2.51	2.00	2.06
16	a	102	CRT	C25-C23	-2.51	1.40	1.45
11	D	101	BCL	C1B-NB	-2.50	1.33	1.35
16	N	103	CRT	C25-C23	-2.50	1.40	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	Q	101	BCL	OBD-CAD	2.50	1.26	1.22
11	h	102	BCL	C4B-NB	-2.50	1.33	1.35
16	I	102	CRT	C35-C33	-2.50	1.40	1.45
16	M	406	CRT	C16-C17	-2.49	1.40	1.45
16	N	103	CRT	C30-C28	-2.49	1.40	1.45
16	i	102	CRT	C16-C17	-2.49	1.40	1.45
16	a	102	CRT	C11-C12	-2.49	1.40	1.45
16	U	102	CRT	C30-C28	-2.49	1.40	1.45
11	b	101	BCL	OBD-CAD	2.49	1.26	1.22
16	E	103	CRT	C16-C17	-2.49	1.40	1.45
11	E	102	BCL	C4B-NB	-2.49	1.33	1.35
11	g	101	BCL	CHD-C1D	2.49	1.43	1.38
11	R	101	BCL	OBD-CAD	2.49	1.26	1.22
16	N	103	CRT	C16-C17	-2.48	1.40	1.45
11	F	101	BCL	CHD-C1D	2.48	1.43	1.38
11	E	101	BCL	CHD-C1D	2.48	1.43	1.38
11	f	101	BCL	CHD-C1D	2.47	1.43	1.38
11	X	102	BCL	C4B-NB	-2.47	1.33	1.35
16	e	102	CRT	C35-C33	-2.47	1.40	1.45
16	B	102	CRT	C16-C17	-2.47	1.40	1.45
11	j	103	BCL	C4B-NB	-2.47	1.33	1.35
16	i	102	CRT	C11-C12	-2.47	1.40	1.45
16	B	102	CRT	C35-C33	-2.47	1.40	1.45
16	U	102	CRT	C35-C33	-2.46	1.40	1.45
11	T	102	BCL	CHD-C4C	2.46	1.46	1.39
11	L	401	BCL	OBD-CAD	2.46	1.26	1.22
16	a	102	CRT	C35-C33	-2.46	1.40	1.45
11	R	101	BCL	CHD-C1D	2.46	1.43	1.38
16	N	103	CRT	C35-C33	-2.46	1.40	1.45
11	V	102	BCL	CHD-C4C	2.46	1.46	1.39
16	A	103	CRT	C11-C12	-2.45	1.40	1.45
11	Y	101	BCL	MG-NA	-2.45	2.00	2.06
16	Z	102	CRT	C11-C12	-2.45	1.40	1.45
11	i	101	BCL	OBD-CAD	2.45	1.26	1.22
16	U	102	CRT	C16-C17	-2.44	1.40	1.45
16	P	103	CRT	C11-C12	-2.44	1.40	1.45
11	c	101	BCL	MG-NA	-2.44	2.00	2.06
11	h	102	BCL	CHD-C4C	2.43	1.46	1.39
16	E	103	CRT	C11-C12	-2.43	1.40	1.45
11	N	102	BCL	CHD-C4C	2.43	1.46	1.39
11	d	101	BCL	OBD-CAD	2.43	1.26	1.22
16	j	101	CRT	C16-C17	-2.43	1.40	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	B	102	CRT	C11-C12	-2.42	1.40	1.45
16	W	102	CRT	C11-C12	-2.42	1.40	1.45
16	j	101	CRT	C11-C12	-2.42	1.40	1.45
16	Z	102	CRT	C16-C17	-2.41	1.40	1.45
16	e	102	CRT	C16-C17	-2.41	1.40	1.45
11	R	102	BCL	CHD-C4C	2.41	1.46	1.39
16	Y	102	CRT	C30-C28	-2.41	1.40	1.45
16	N	103	CRT	C11-C12	-2.41	1.40	1.45
11	g	101	BCL	OBD-CAD	2.40	1.26	1.22
16	e	102	CRT	C11-C12	-2.40	1.40	1.45
11	d	102	BCL	C4B-NB	-2.40	1.33	1.35
16	R	103	CRT	C11-C12	-2.40	1.40	1.45
11	G	102	BCL	MG-NA	-2.40	2.00	2.06
16	I	102	CRT	C16-C17	-2.40	1.40	1.45
16	M	406	CRT	C25-C23	-2.40	1.40	1.45
11	f	101	BCL	OBD-CAD	2.40	1.26	1.22
11	G	101	BCL	CHD-C1D	2.40	1.43	1.38
16	M	406	CRT	C11-C12	-2.39	1.40	1.45
11	J	102	BCL	CHD-C4C	2.39	1.46	1.39
11	M	402	BCL	CHD-C4C	2.39	1.46	1.39
11	F	101	BCL	OBD-CAD	2.39	1.26	1.22
11	L	401	BCL	CHD-C4C	2.38	1.45	1.39
16	U	102	CRT	C11-C12	-2.38	1.40	1.45
16	Y	102	CRT	C35-C33	-2.38	1.40	1.45
11	D	101	BCL	MG-NA	-2.37	2.00	2.06
16	Y	102	CRT	C25-C23	-2.37	1.40	1.45
11	N	101	BCL	CHD-C1D	2.37	1.43	1.38
11	W	101	BCL	MG-NA	-2.37	2.00	2.06
11	A	102	BCL	C1D-C2D	2.36	1.50	1.45
11	X	101	BCL	CHD-C1D	2.35	1.43	1.38
11	a	101	BCL	MG-NA	-2.35	2.00	2.06
11	E	102	BCL	MG-NA	-2.35	2.00	2.06
16	Z	102	CRT	C30-C28	-2.35	1.40	1.45
11	M	403	BCL	C3D-C2D	2.35	1.45	1.39
11	T	101	BCL	CHD-C1D	2.35	1.42	1.38
11	M	403	BCL	C3C-C4C	-2.34	1.48	1.51
11	B	101	BCL	CHD-C1D	2.34	1.42	1.38
11	J	101	BCL	CHD-C1D	2.34	1.42	1.38
16	K	102	CRT	C16-C17	-2.34	1.40	1.45
11	f	102	BCL	MG-NA	-2.34	2.00	2.06
11	j	103	BCL	CHD-C4C	2.33	1.45	1.39
16	Z	102	CRT	C35-C33	-2.32	1.41	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	b	102	BCL	C3C-C4C	-2.32	1.48	1.51
11	P	101	BCL	CHD-C1D	2.32	1.42	1.38
16	K	102	CRT	C6-C7	-2.31	1.41	1.45
16	Y	102	CRT	C16-C17	-2.31	1.41	1.45
11	A	102	BCL	MG-NC	-2.31	2.00	2.06
11	f	102	BCL	MG-NC	-2.30	2.00	2.06
11	M	402	BCL	C4B-NB	-2.30	1.33	1.35
11	h	102	BCL	MG-NA	-2.30	2.00	2.06
11	D	101	BCL	CHD-C1D	2.30	1.42	1.38
11	g	101	BCL	MG-NA	-2.30	2.00	2.06
11	I	101	BCL	MG-NC	-2.30	2.00	2.06
16	M	406	CRT	C6-C7	-2.29	1.41	1.45
16	W	102	CRT	C6-C7	-2.29	1.41	1.45
11	g	101	BCL	C4B-CHC	2.29	1.47	1.41
11	M	403	BCL	OBD-CAD	2.29	1.26	1.22
11	P	102	BCL	CHD-C4C	2.29	1.45	1.39
11	V	101	BCL	OBD-CAD	2.28	1.26	1.22
11	L	402	BCL	C1B-CHB	2.28	1.47	1.41
11	b	102	BCL	CHD-C4C	2.27	1.45	1.39
11	O	101	BCL	OBD-CAD	2.27	1.26	1.22
11	j	102	BCL	OBD-CAD	2.27	1.26	1.22
11	W	101	BCL	OBD-CAD	2.26	1.26	1.22
11	T	102	BCL	C4B-NB	-2.25	1.33	1.35
11	h	101	BCL	CHD-C1D	2.25	1.42	1.38
11	F	101	BCL	MG-NC	-2.25	2.00	2.06
16	K	102	CRT	C11-C12	-2.25	1.41	1.45
16	Y	102	CRT	C11-C12	-2.25	1.41	1.45
11	N	101	BCL	OBD-CAD	2.24	1.26	1.22
11	X	102	BCL	MG-NA	-2.24	2.00	2.06
11	Z	101	BCL	C4B-NB	-2.24	1.33	1.35
16	Z	102	CRT	C6-C7	-2.24	1.41	1.45
16	Z	102	CRT	C25-C23	-2.24	1.41	1.45
16	E	103	CRT	C6-C7	-2.24	1.41	1.45
11	R	102	BCL	MG-NC	-2.23	2.01	2.06
11	B	101	BCL	MG-NA	-2.22	2.01	2.06
11	M	403	BCL	C4D-ND	-2.22	1.34	1.37
16	N	103	CRT	C6-C7	-2.21	1.41	1.45
16	B	102	CRT	C6-C7	-2.21	1.41	1.45
16	I	102	CRT	C11-C12	-2.21	1.41	1.45
16	e	102	CRT	C6-C7	-2.21	1.41	1.45
11	Z	101	BCL	CHD-C4C	2.21	1.45	1.39
11	S	101	BCL	C1B-NB	-2.21	1.33	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	j	102	BCL	C1B-NB	-2.21	1.33	1.35
11	K	101	BCL	C4B-CHC	2.21	1.47	1.41
16	a	102	CRT	C6-C7	-2.21	1.41	1.45
11	D	101	BCL	C2C-C3C	-2.20	1.48	1.54
11	M	403	BCL	C2C-C3C	-2.20	1.48	1.54
11	e	101	BCL	C4B-CHC	2.19	1.47	1.41
11	L	402	BCL	OBD-CAD	2.19	1.26	1.22
11	E	101	BCL	C2C-C3C	-2.19	1.48	1.54
16	R	103	CRT	C6-C7	-2.19	1.41	1.45
11	Q	101	BCL	C2C-C3C	-2.19	1.48	1.54
11	F	101	BCL	C1B-NB	-2.18	1.33	1.35
11	d	101	BCL	C4B-NB	-2.18	1.33	1.35
11	E	102	BCL	C1D-C2D	2.18	1.49	1.45
11	E	101	BCL	CHD-C4C	2.18	1.45	1.39
11	V	102	BCL	C3C-C4C	-2.18	1.48	1.51
11	K	101	BCL	MG-NA	-2.17	2.01	2.06
11	K	101	BCL	CHD-C4C	2.17	1.45	1.39
16	U	102	CRT	C6-C7	-2.17	1.41	1.45
11	F	101	BCL	C4B-NB	-2.16	1.33	1.35
11	f	101	BCL	C2C-C3C	-2.15	1.48	1.54
11	a	101	BCL	C4B-CHC	2.15	1.47	1.41
11	X	102	BCL	MG-NC	-2.15	2.01	2.06
11	j	102	BCL	C2C-C3C	-2.15	1.48	1.54
16	A	103	CRT	C6-C7	-2.15	1.41	1.45
11	F	101	BCL	C4B-CHC	2.14	1.46	1.41
11	B	101	BCL	OBD-CAD	2.14	1.26	1.22
11	d	102	BCL	C1D-C2D	2.14	1.49	1.45
11	T	102	BCL	C1D-C2D	2.14	1.49	1.45
11	A	101	BCL	CHD-C1D	2.14	1.42	1.38
16	j	101	CRT	C6-C7	-2.13	1.41	1.45
11	a	101	BCL	OBD-CAD	2.13	1.26	1.22
16	i	102	CRT	C6-C7	-2.13	1.41	1.45
11	j	102	BCL	MG-NC	-2.13	2.01	2.06
16	Y	102	CRT	C6-C7	-2.13	1.41	1.45
11	P	102	BCL	C3C-C4C	-2.13	1.48	1.51
16	P	103	CRT	C6-C7	-2.13	1.41	1.45
11	Q	101	BCL	C4B-NB	-2.13	1.33	1.35
11	J	101	BCL	C2C-C3C	-2.13	1.48	1.54
11	V	102	BCL	MG-NC	-2.12	2.01	2.06
11	K	101	BCL	MG-NC	-2.12	2.01	2.06
11	h	101	BCL	C2C-C3C	-2.12	1.48	1.54
11	U	101	BCL	MG-ND	-2.12	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	d	101	BCL	C1B-CHB	2.12	1.46	1.41
11	h	102	BCL	MG-NC	-2.11	2.01	2.06
11	G	101	BCL	C2C-C3C	-2.11	1.48	1.54
11	P	101	BCL	C1B-CHB	2.11	1.46	1.41
11	P	102	BCL	C4D-CHA	2.11	1.45	1.38
11	E	101	BCL	OBD-CAD	2.11	1.26	1.22
11	X	101	BCL	C2C-C3C	-2.10	1.48	1.54
11	N	101	BCL	CAA-C2A	-2.10	1.50	1.54
11	W	101	BCL	C4B-CHC	2.10	1.46	1.41
11	A	101	BCL	C2C-C3C	-2.10	1.48	1.54
16	I	102	CRT	C6-C7	-2.09	1.41	1.45
11	T	101	BCL	OBD-CAD	2.09	1.26	1.22
11	g	101	BCL	MG-NC	-2.08	2.01	2.06
11	N	102	BCL	C1D-C2D	2.08	1.49	1.45
11	j	103	BCL	C4D-CHA	2.08	1.45	1.38
11	X	102	BCL	C4D-CHA	2.08	1.45	1.38
11	D	101	BCL	C4B-CHC	2.08	1.46	1.41
11	E	102	BCL	MG-NC	-2.08	2.01	2.06
11	N	101	BCL	C2C-C3C	-2.08	1.48	1.54
11	S	101	BCL	MG-NC	-2.08	2.01	2.06
11	d	101	BCL	CHD-C4C	2.07	1.45	1.39
11	B	101	BCL	C4B-CHC	2.07	1.46	1.41
11	V	101	BCL	C1B-CHB	2.07	1.46	1.41
11	h	102	BCL	C4D-CHA	2.07	1.45	1.38
11	R	101	BCL	C1B-CHB	2.07	1.46	1.41
11	J	101	BCL	CAA-C2A	-2.07	1.50	1.54
11	b	102	BCL	C4D-CHA	2.06	1.45	1.38
11	N	102	BCL	MG-NC	-2.06	2.01	2.06
11	U	101	BCL	C1B-NB	-2.06	1.33	1.35
11	S	101	BCL	CAA-C2A	-2.06	1.50	1.54
11	P	101	BCL	C2C-C3C	-2.06	1.48	1.54
11	c	101	BCL	CHD-C4C	2.06	1.45	1.39
11	A	102	BCL	C4D-CHA	2.06	1.45	1.38
11	O	101	BCL	C2C-C3C	-2.06	1.48	1.54
11	X	101	BCL	MG-NC	-2.06	2.01	2.06
11	W	101	BCL	C2C-C3C	-2.05	1.48	1.54
11	U	101	BCL	C4B-CHC	2.05	1.46	1.41
11	M	403	BCL	C1B-CHB	2.05	1.46	1.41
11	M	402	BCL	C4B-CHC	2.05	1.46	1.41
11	G	102	BCL	MG-NC	-2.05	2.01	2.06
11	L	402	BCL	C2C-C3C	-2.05	1.48	1.54
11	a	101	BCL	C4B-NB	-2.04	1.33	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	S	101	BCL	MG-NA	-2.04	2.01	2.06
11	D	101	BCL	CAA-C2A	-2.04	1.50	1.54
11	j	103	BCL	MG-NC	-2.04	2.01	2.06
11	Y	101	BCL	CHD-C4C	2.04	1.45	1.39
11	I	101	BCL	C1B-NB	-2.04	1.33	1.35
7	C	502	HEC	C4D-ND	2.04	1.40	1.36
11	b	101	BCL	CHD-C4C	2.03	1.44	1.39
11	W	101	BCL	C4B-NB	-2.03	1.33	1.35
11	L	402	BCL	C4B-CHC	2.03	1.46	1.41
11	c	101	BCL	C2C-C3C	-2.03	1.48	1.54
11	X	101	BCL	CAA-C2A	-2.03	1.50	1.54
11	P	102	BCL	C4B-NB	-2.03	1.33	1.35
11	Z	101	BCL	C2C-C3C	-2.03	1.48	1.54
11	V	102	BCL	C1D-C2D	2.03	1.49	1.45
11	S	101	BCL	CHD-C4C	2.03	1.44	1.39
11	E	102	BCL	C4D-CHA	2.02	1.45	1.38
11	E	101	BCL	C3A-C2A	-2.02	1.48	1.54
11	a	101	BCL	C1B-CHB	2.02	1.46	1.41
11	Y	101	BCL	C2C-C3C	-2.02	1.48	1.54
11	O	101	BCL	C4B-CHC	2.02	1.46	1.41
11	L	401	BCL	MG-NC	-2.01	2.01	2.06
11	U	101	BCL	MG-NC	-2.01	2.01	2.06
11	M	402	BCL	MG-NC	-2.01	2.01	2.06
11	b	101	BCL	C1B-CHB	2.01	1.46	1.41
11	R	102	BCL	C1D-C2D	2.01	1.49	1.45
11	d	101	BCL	C2C-C3C	-2.01	1.48	1.54
11	L	402	BCL	MG-NC	-2.01	2.01	2.06
11	E	101	BCL	C4D-CHA	2.01	1.45	1.38
11	E	101	BCL	CAA-C2A	-2.01	1.50	1.54
11	J	101	BCL	C1B-CHB	2.00	1.46	1.41
11	X	101	BCL	CHD-C4C	2.00	1.44	1.39
11	I	101	BCL	C2C-C3C	-2.00	1.48	1.54
11	A	101	BCL	C1B-NB	-2.00	1.33	1.35
11	S	101	BCL	C4B-CHC	2.00	1.46	1.41
11	f	101	BCL	C1B-CHB	2.00	1.46	1.41

All (1370) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	M	402	BCL	CHD-C1D-ND	-9.45	115.77	124.45
11	L	401	BCL	O2D-CGD-CBD	8.71	126.75	111.27
11	A	102	BCL	CHD-C1D-ND	-8.62	116.54	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	d	102	BCL	CHD-C1D-ND	-8.35	116.78	124.45
11	P	102	BCL	CHD-C1D-ND	-8.32	116.81	124.45
11	N	102	BCL	CHD-C1D-ND	-8.31	116.82	124.45
11	J	102	BCL	CHD-C1D-ND	-8.24	116.88	124.45
11	M	403	BCL	CHD-C1D-ND	-8.22	116.90	124.45
11	X	102	BCL	CHD-C1D-ND	-8.16	116.95	124.45
11	d	102	BCL	CMD-C2D-C1D	8.15	139.08	124.71
11	T	102	BCL	CHD-C1D-ND	-8.14	116.97	124.45
11	R	102	BCL	CHD-C1D-ND	-8.09	117.02	124.45
11	b	102	BCL	CHD-C1D-ND	-8.08	117.03	124.45
11	E	102	BCL	CHD-C1D-ND	-8.02	117.09	124.45
11	V	102	BCL	CHD-C1D-ND	-8.01	117.09	124.45
11	G	102	BCL	CHD-C1D-ND	-7.98	117.12	124.45
11	j	103	BCL	CHD-C1D-ND	-7.98	117.12	124.45
11	E	101	BCL	CHD-C1D-ND	-7.94	117.15	124.45
11	f	102	BCL	CHD-C1D-ND	-7.92	117.18	124.45
11	A	102	BCL	CMD-C2D-C1D	7.90	138.64	124.71
11	f	102	BCL	CMD-C2D-C1D	7.89	138.62	124.71
11	h	102	BCL	CHD-C1D-ND	-7.86	117.23	124.45
11	P	101	BCL	CHD-C1D-ND	-7.86	117.23	124.45
11	R	102	BCL	CMD-C2D-C1D	7.85	138.55	124.71
11	X	101	BCL	CHD-C1D-ND	-7.75	117.33	124.45
11	L	401	BCL	CHD-C1D-ND	-7.73	117.35	124.45
11	X	102	BCL	CMD-C2D-C1D	7.73	138.33	124.71
11	M	403	BCL	CMD-C2D-C1D	7.72	138.32	124.71
11	J	102	BCL	CMD-C2D-C1D	7.71	138.31	124.71
11	h	102	BCL	CMD-C2D-C1D	7.66	138.22	124.71
11	M	403	BCL	O2D-CGD-CBD	7.65	124.86	111.27
11	P	102	BCL	CMD-C2D-C1D	7.64	138.18	124.71
11	G	102	BCL	CMD-C2D-C1D	7.63	138.16	124.71
11	T	102	BCL	CMD-C2D-C1D	7.62	138.15	124.71
11	Z	101	BCL	CHD-C1D-ND	-7.59	117.48	124.45
11	L	402	BCL	CMD-C2D-C1D	7.57	138.05	124.71
11	f	101	BCL	CHD-C1D-ND	-7.54	117.53	124.45
11	E	102	BCL	CMD-C2D-C1D	7.52	137.96	124.71
11	b	102	BCL	CMD-C2D-C1D	7.51	137.95	124.71
11	j	103	BCL	CMD-C2D-C1D	7.44	137.83	124.71
11	V	101	BCL	CHD-C1D-ND	-7.39	117.66	124.45
11	R	101	BCL	CHD-C1D-ND	-7.39	117.67	124.45
11	V	102	BCL	CMD-C2D-C1D	7.39	137.73	124.71
11	T	101	BCL	CHD-C1D-ND	-7.28	117.76	124.45
11	L	402	BCL	CHD-C1D-ND	-7.26	117.78	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	N	102	BCL	CMD-C2D-C1D	7.24	137.47	124.71
11	G	101	BCL	CHD-C1D-ND	-7.21	117.83	124.45
11	d	101	BCL	CHD-C1D-ND	-7.17	117.87	124.45
11	M	403	BCL	C4A-NA-C1A	7.16	109.92	106.71
11	M	402	BCL	CMD-C2D-C1D	7.15	137.31	124.71
11	A	101	BCL	CHD-C1D-ND	-7.07	117.96	124.45
11	J	101	BCL	CHD-C1D-ND	-7.07	117.96	124.45
11	L	401	BCL	CMD-C2D-C1D	7.03	137.11	124.71
11	P	101	BCL	C2D-C1D-ND	7.00	115.26	110.10
11	X	101	BCL	C2D-C1D-ND	7.00	115.26	110.10
11	N	101	BCL	CHD-C1D-ND	-6.83	118.17	124.45
11	E	101	BCL	CMD-C2D-C1D	6.83	136.76	124.71
11	j	102	BCL	C2D-C1D-ND	6.79	115.11	110.10
11	h	101	BCL	CHD-C1D-ND	-6.70	118.30	124.45
11	b	101	BCL	CHD-C1D-ND	-6.66	118.34	124.45
11	j	102	BCL	CHD-C1D-ND	-6.59	118.40	124.45
11	P	101	BCL	CMD-C2D-C1D	6.55	136.25	124.71
11	j	102	BCL	C4A-NA-C1A	6.54	109.65	106.71
11	e	101	BCL	CHD-C1D-ND	-6.54	118.45	124.45
11	f	101	BCL	CMD-C2D-C1D	6.47	136.12	124.71
11	M	402	BCL	O2D-CGD-CBD	6.42	122.68	111.27
11	J	101	BCL	C1C-NC-C4C	-6.41	103.82	106.71
11	O	101	BCL	CHD-C1D-ND	-6.41	118.57	124.45
11	A	101	BCL	CMD-C2D-C1D	6.40	135.99	124.71
11	d	101	BCL	O2D-CGD-CBD	6.36	122.57	111.27
11	P	101	BCL	C1C-NC-C4C	-6.36	103.85	106.71
11	g	101	BCL	CHD-C1D-ND	-6.34	118.63	124.45
11	A	101	BCL	C2D-C1D-ND	6.34	114.78	110.10
11	c	101	BCL	CHD-C1D-ND	-6.32	118.65	124.45
11	G	101	BCL	C2D-C1D-ND	6.25	114.71	110.10
11	Q	101	BCL	CHD-C1D-ND	-6.21	118.75	124.45
11	Y	101	BCL	CHD-C1D-ND	-6.20	118.75	124.45
11	E	101	BCL	C2D-C1D-ND	6.17	114.65	110.10
11	N	101	BCL	C2D-C1D-ND	6.17	114.65	110.10
11	I	101	BCL	CHD-C1D-ND	-6.17	118.79	124.45
11	T	101	BCL	C2D-C1D-ND	6.16	114.65	110.10
11	h	101	BCL	C2D-C1D-ND	6.16	114.64	110.10
11	K	101	BCL	CHD-C1D-ND	-6.11	118.84	124.45
11	X	101	BCL	CMD-C2D-C1D	6.08	135.43	124.71
11	X	101	BCL	CHD-C4C-NC	6.08	131.83	125.08
11	d	101	BCL	C2D-C1D-ND	6.07	114.58	110.10
11	P	101	BCL	C4A-NA-C1A	6.07	109.44	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	g	101	BCL	C2D-C1D-ND	6.05	114.56	110.10
11	A	101	BCL	O2D-CGD-CBD	6.04	122.00	111.27
11	X	101	BCL	O2D-CGD-CBD	6.04	122.00	111.27
11	V	101	BCL	C2D-C1D-ND	6.02	114.54	110.10
11	h	101	BCL	C1C-NC-C4C	-6.02	104.00	106.71
11	h	101	BCL	CMD-C2D-C1D	6.01	135.31	124.71
11	I	101	BCL	C2D-C1D-ND	5.98	114.51	110.10
11	J	101	BCL	CMD-C2D-C1D	5.95	135.19	124.71
11	V	101	BCL	CMD-C2D-C1D	5.94	135.18	124.71
11	Z	101	BCL	CMD-C2D-C1D	5.92	135.15	124.71
11	e	101	BCL	C2D-C1D-ND	5.92	114.47	110.10
11	b	101	BCL	CMD-C2D-C1D	5.91	135.13	124.71
11	i	101	BCL	C2D-C1D-ND	5.90	114.45	110.10
11	T	101	BCL	CMD-C2D-C1D	5.89	135.10	124.71
11	J	101	BCL	C2D-C1D-ND	5.89	114.44	110.10
11	B	101	BCL	C2D-C1D-ND	5.85	114.42	110.10
11	d	101	BCL	CMD-C2D-C1D	5.84	135.00	124.71
11	N	101	BCL	CMD-C2D-C1D	5.83	134.99	124.71
11	b	101	BCL	O2D-CGD-CBD	5.82	121.60	111.27
11	M	403	BCL	O2D-CGD-O1D	-5.81	112.47	123.84
11	A	101	BCL	C3C-C4C-CHD	-5.76	111.08	123.39
11	P	101	BCL	C3D-C2D-C1D	-5.75	97.99	105.83
11	G	101	BCL	CMD-C2D-C1D	5.75	134.84	124.71
11	E	101	BCL	O2D-CGD-CBD	5.74	121.46	111.27
11	U	101	BCL	CHD-C1D-ND	-5.72	119.20	124.45
11	G	101	BCL	O2D-CGD-CBD	5.71	121.41	111.27
11	D	101	BCL	C2D-C1D-ND	5.70	114.30	110.10
11	V	101	BCL	O2D-CGD-CBD	5.70	121.39	111.27
11	X	101	BCL	C3D-C2D-C1D	-5.69	98.07	105.83
11	j	102	BCL	CHD-C4C-NC	5.68	131.38	125.08
11	g	101	BCL	CMD-C2D-C1D	5.67	134.70	124.71
11	i	101	BCL	CHD-C1D-ND	-5.67	119.25	124.45
11	F	101	BCL	C2D-C1D-ND	5.67	114.28	110.10
11	E	101	BCL	CHD-C4C-NC	5.66	131.36	125.08
11	a	101	BCL	CHD-C1D-ND	-5.66	119.26	124.45
11	T	101	BCL	CHD-C4C-NC	5.65	131.35	125.08
11	L	401	BCL	CMB-C2B-C3B	5.65	135.25	124.68
11	a	101	BCL	C2D-C1D-ND	5.64	114.26	110.10
11	E	101	BCL	C3D-C2D-C1D	-5.64	98.14	105.83
11	f	101	BCL	C1C-NC-C4C	-5.63	104.17	106.71
11	P	101	BCL	C3C-C4C-CHD	-5.63	111.36	123.39
11	Q	101	BCL	C2D-C1D-ND	5.61	114.24	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Z	101	BCL	C2D-C1D-ND	5.61	114.24	110.10
11	B	101	BCL	CHD-C1D-ND	-5.61	119.30	124.45
11	j	102	BCL	C3C-C4C-CHD	-5.59	111.44	123.39
11	B	101	BCL	CMB-C2B-C3B	5.59	135.13	124.68
11	W	101	BCL	CHD-C1D-ND	-5.59	119.32	124.45
11	N	101	BCL	C3C-C4C-CHD	-5.58	111.47	123.39
11	T	101	BCL	O2D-CGD-CBD	5.58	121.18	111.27
11	R	101	BCL	C2D-C1D-ND	5.56	114.20	110.10
11	f	101	BCL	C2D-C1D-ND	5.55	114.20	110.10
11	O	101	BCL	C2D-C1D-ND	5.55	114.19	110.10
11	R	101	BCL	C3C-C4C-CHD	-5.54	111.56	123.39
11	Z	101	BCL	O2D-CGD-CBD	5.54	121.11	111.27
11	W	101	BCL	C2D-C1D-ND	5.54	114.18	110.10
11	M	403	BCL	C3D-C2D-C1D	-5.53	98.28	105.83
11	X	101	BCL	C3C-C4C-CHD	-5.53	111.57	123.39
11	N	101	BCL	O2D-CGD-CBD	5.53	121.09	111.27
11	A	101	BCL	CHD-C4C-NC	5.52	131.20	125.08
11	X	102	BCL	O2D-CGD-CBD	5.49	121.02	111.27
11	V	101	BCL	C3C-C4C-CHD	-5.49	111.67	123.39
11	D	101	BCL	CMB-C2B-C3B	5.48	134.94	124.68
11	K	101	BCL	CMD-C2D-C1D	5.48	134.38	124.71
11	g	101	BCL	C3C-C4C-CHD	-5.48	111.69	123.39
11	N	101	BCL	CHD-C4C-NC	5.47	131.15	125.08
11	T	101	BCL	C3C-C4C-CHD	-5.46	111.72	123.39
11	P	101	BCL	CHD-C4C-NC	5.46	131.14	125.08
11	d	101	BCL	C3C-C4C-CHD	-5.45	111.74	123.39
11	a	101	BCL	C3C-C4C-CHD	-5.45	111.75	123.39
11	G	101	BCL	CHD-C4C-NC	5.45	131.13	125.08
11	V	101	BCL	CHD-C4C-NC	5.45	131.12	125.08
11	f	101	BCL	O2D-CGD-CBD	5.44	120.94	111.27
11	B	101	BCL	C3C-C4C-CHD	-5.44	111.77	123.39
11	G	101	BCL	C3C-C4C-CHD	-5.42	111.81	123.39
11	J	101	BCL	C3C-C4C-CHD	-5.39	111.89	123.39
11	G	102	BCL	O2D-CGD-CBD	5.37	120.82	111.27
11	D	101	BCL	C3C-C4C-CHD	-5.37	111.92	123.39
11	S	101	BCL	CHD-C1D-ND	-5.37	119.52	124.45
11	P	101	BCL	O2D-CGD-CBD	5.36	120.80	111.27
11	R	101	BCL	O2D-CGD-CBD	5.36	120.79	111.27
11	M	403	BCL	C2D-C1D-ND	5.35	114.05	110.10
11	c	101	BCL	C2D-C1D-ND	5.35	114.05	110.10
11	T	101	BCL	C3D-C2D-C1D	-5.35	98.54	105.83
11	h	102	BCL	C3D-C2D-C1D	-5.34	98.54	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	J	101	BCL	C3D-C2D-C1D	-5.34	98.55	105.83
11	M	403	BCL	CMB-C2B-C3B	5.33	134.64	124.68
11	e	101	BCL	C3C-C4C-CHD	-5.32	112.03	123.39
11	b	101	BCL	C3C-C4C-CHD	-5.32	112.03	123.39
11	R	101	BCL	CMD-C2D-C1D	5.31	134.07	124.71
11	R	101	BCL	C1C-NC-C4C	-5.31	104.32	106.71
11	U	101	BCL	C3C-C4C-CHD	-5.31	112.05	123.39
11	G	101	BCL	C1C-NC-C4C	-5.30	104.32	106.71
11	L	402	BCL	C3C-C4C-CHD	-5.30	112.06	123.39
11	Z	101	BCL	CHD-C4C-NC	5.29	130.95	125.08
11	j	102	BCL	C3D-C2D-C1D	-5.29	98.62	105.83
11	d	101	BCL	C3D-C2D-C1D	-5.29	98.62	105.83
11	b	101	BCL	C2D-C1D-ND	5.28	114.00	110.10
11	f	101	BCL	CHD-C4C-NC	5.27	130.93	125.08
11	h	101	BCL	C3C-C4C-CHD	-5.27	112.14	123.39
11	N	101	BCL	C3D-C2D-C1D	-5.26	98.66	105.83
11	j	102	BCL	CMD-C2D-C1D	5.26	133.97	124.71
11	A	101	BCL	C3D-C2D-C1D	-5.25	98.66	105.83
11	E	101	BCL	C3C-C4C-CHD	-5.25	112.18	123.39
11	Q	101	BCL	C3C-C4C-CHD	-5.24	112.20	123.39
11	F	101	BCL	C3C-C4C-CHD	-5.24	112.20	123.39
11	j	102	BCL	O2D-CGD-CBD	5.23	120.56	111.27
11	V	101	BCL	C3D-C2D-C1D	-5.23	98.70	105.83
11	U	101	BCL	CHD-C4C-NC	5.22	130.88	125.08
11	d	102	BCL	C3D-C2D-C1D	-5.22	98.71	105.83
11	f	101	BCL	C3C-C4C-CHD	-5.21	112.25	123.39
11	U	101	BCL	C2D-C1D-ND	5.21	113.95	110.10
11	c	101	BCL	C3C-C4C-CHD	-5.21	112.25	123.39
9	L	410	PGV	O01-C1-C2	5.21	122.72	111.50
11	f	101	BCL	C3D-C2D-C1D	-5.20	98.74	105.83
11	h	101	BCL	C3D-C2D-C1D	-5.18	98.76	105.83
11	L	402	BCL	C2D-C1D-ND	5.17	113.91	110.10
11	h	102	BCL	C2D-C1D-ND	5.17	113.91	110.10
11	R	102	BCL	C3D-C2D-C1D	-5.16	98.79	105.83
11	O	101	BCL	C3C-C4C-CHD	-5.16	112.37	123.39
11	i	101	BCL	C3C-C4C-CHD	-5.15	112.39	123.39
11	d	101	BCL	CHD-C4C-NC	5.14	130.78	125.08
11	G	101	BCL	C3D-C2D-C1D	-5.13	98.83	105.83
11	U	101	BCL	CMB-C2B-C3B	5.13	134.28	124.68
11	S	101	BCL	C2D-C1D-ND	5.13	113.88	110.10
11	F	101	BCL	CHD-C1D-ND	-5.12	119.75	124.45
11	R	102	BCL	C2D-C1D-ND	5.11	113.87	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	j	103	BCL	C3D-C2D-C1D	-5.11	98.86	105.83
11	c	101	BCL	CMD-C2D-C1D	5.10	133.71	124.71
11	j	102	BCL	C1C-NC-C4C	-5.10	104.42	106.71
11	h	101	BCL	CHD-C4C-NC	5.09	130.74	125.08
11	I	101	BCL	C3C-C4C-CHD	-5.09	112.52	123.39
11	R	101	BCL	CHD-C4C-NC	5.08	130.72	125.08
11	Y	101	BCL	C2D-C1D-ND	5.08	113.85	110.10
11	j	103	BCL	CMB-C2B-C3B	5.07	134.16	124.68
11	A	102	BCL	C3D-C2D-C1D	-5.07	98.92	105.83
11	W	101	BCL	CMB-C2B-C3B	5.06	134.15	124.68
11	K	101	BCL	CMB-C2B-C3B	5.06	134.15	124.68
11	h	102	BCL	CMB-C2B-C3B	5.06	134.14	124.68
11	L	402	BCL	C3D-C2D-C1D	-5.06	98.93	105.83
11	Z	101	BCL	C3C-C4C-CHD	-5.06	112.59	123.39
11	I	101	BCL	CHD-C4C-NC	5.05	130.69	125.08
11	f	102	BCL	C2D-C1D-ND	5.05	113.83	110.10
11	b	102	BCL	C3D-C2D-C1D	-5.04	98.95	105.83
11	M	403	BCL	C1C-NC-C4C	-5.04	104.44	106.71
11	J	101	BCL	O2D-CGD-CBD	5.04	120.22	111.27
11	g	101	BCL	C3D-C2D-C1D	-5.04	98.96	105.83
11	f	102	BCL	C3D-C2D-C1D	-5.04	98.96	105.83
11	b	101	BCL	C3D-C2D-C1D	-5.03	98.97	105.83
11	B	101	BCL	CHD-C4C-NC	5.03	130.66	125.08
11	L	402	BCL	CHD-C4C-NC	5.00	130.63	125.08
11	W	101	BCL	C3C-C4C-CHD	-5.00	112.70	123.39
11	P	102	BCL	C3D-C2D-C1D	-5.00	99.01	105.83
11	L	402	BCL	CMB-C2B-C3B	5.00	134.03	124.68
11	f	101	BCL	C4A-NA-C1A	5.00	108.95	106.71
11	b	101	BCL	CHD-C4C-NC	4.99	130.62	125.08
11	P	102	BCL	C4A-NA-C1A	4.99	108.95	106.71
11	X	102	BCL	C3D-C2D-C1D	-4.98	99.03	105.83
11	J	102	BCL	C3D-C2D-C1D	-4.98	99.03	105.83
11	g	101	BCL	CHD-C4C-NC	4.97	130.60	125.08
11	b	101	BCL	C1C-NC-C4C	-4.97	104.47	106.71
11	K	101	BCL	C3C-C4C-CHD	-4.97	112.78	123.39
11	P	102	BCL	CHD-C4C-NC	4.97	130.59	125.08
11	A	102	BCL	C2D-C1D-ND	4.96	113.76	110.10
11	N	102	BCL	C3D-C2D-C1D	-4.96	99.07	105.83
11	J	102	BCL	CHD-C4C-NC	4.96	130.58	125.08
11	T	102	BCL	O2D-CGD-CBD	4.96	120.07	111.27
11	J	101	BCL	CHD-C4C-NC	4.95	130.58	125.08
11	R	102	BCL	O2D-CGD-CBD	4.95	120.07	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	f	102	BCL	O2D-CGD-CBD	4.95	120.07	111.27
11	X	101	BCL	C4A-NA-C1A	4.95	108.93	106.71
11	V	102	BCL	C3D-C2D-C1D	-4.94	99.08	105.83
11	Y	101	BCL	CMD-C2D-C1D	4.94	133.42	124.71
11	J	102	BCL	C2D-C1D-ND	4.93	113.74	110.10
11	N	101	BCL	CMB-C2B-C3B	4.93	133.90	124.68
11	E	102	BCL	CMB-C2B-C3B	4.93	133.90	124.68
11	e	101	BCL	CMD-C2D-C1D	4.93	133.40	124.71
11	Q	101	BCL	CHD-C4C-NC	4.92	130.54	125.08
11	Y	101	BCL	C3C-C4C-CHD	-4.91	112.90	123.39
11	N	102	BCL	C2D-C1D-ND	4.91	113.72	110.10
11	R	101	BCL	C3D-C2D-C1D	-4.91	99.14	105.83
11	M	403	BCL	C3C-C4C-CHD	-4.90	112.92	123.39
11	a	101	BCL	CHD-C4C-NC	4.90	130.52	125.08
11	d	101	BCL	C1C-NC-C4C	-4.90	104.50	106.71
11	V	102	BCL	O2D-CGD-CBD	4.90	119.97	111.27
11	J	101	BCL	C4A-NA-C1A	4.89	108.90	106.71
11	j	103	BCL	CHD-C4C-NC	4.88	130.50	125.08
11	S	101	BCL	C3C-C4C-CHD	-4.88	112.96	123.39
11	O	101	BCL	CMB-C2B-C3B	4.88	133.80	124.68
11	V	101	BCL	C1C-NC-C4C	-4.86	104.52	106.71
11	i	101	BCL	C3D-C2D-C1D	-4.86	99.19	105.83
11	P	102	BCL	C2D-C1D-ND	4.86	113.69	110.10
11	E	102	BCL	C3D-C2D-C1D	-4.86	99.20	105.83
11	L	401	BCL	C1C-NC-C4C	-4.86	104.52	106.71
11	F	101	BCL	CMB-C2B-C3B	4.85	133.76	124.68
11	A	101	BCL	C1C-NC-C4C	-4.85	104.53	106.71
11	f	102	BCL	CHD-C4C-NC	4.84	130.45	125.08
11	T	102	BCL	CHD-C4C-NC	4.84	130.45	125.08
11	N	102	BCL	O2D-CGD-CBD	4.83	119.86	111.27
11	D	101	BCL	CHD-C1D-ND	-4.83	120.02	124.45
11	T	101	BCL	C1C-NC-C4C	-4.83	104.54	106.71
11	P	102	BCL	O2D-CGD-CBD	4.81	119.82	111.27
11	W	101	BCL	CHD-C4C-NC	4.81	130.42	125.08
11	O	101	BCL	CMD-C2D-C1D	4.81	133.19	124.71
11	h	102	BCL	O2D-CGD-CBD	4.80	119.79	111.27
11	Z	101	BCL	C3D-C2D-C1D	-4.79	99.29	105.83
11	h	101	BCL	C4A-NA-C1A	4.78	108.86	106.71
11	e	101	BCL	C3D-C2D-C1D	-4.78	99.30	105.83
11	N	101	BCL	C4A-NA-C1A	4.78	108.86	106.71
11	A	102	BCL	CHD-C4C-NC	4.78	130.38	125.08
11	J	102	BCL	C3C-C4C-CHD	-4.77	113.19	123.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	T	102	BCL	C3C-C4C-CHD	-4.77	113.21	123.39
11	G	102	BCL	C3D-C2D-C1D	-4.77	99.33	105.83
11	h	101	BCL	O2D-CGD-CBD	4.77	119.74	111.27
11	a	101	BCL	CMB-C2B-C3B	4.76	133.59	124.68
11	W	101	BCL	C3D-C2D-C1D	-4.76	99.34	105.83
11	X	102	BCL	CMB-C2B-C3B	4.76	133.58	124.68
11	W	101	BCL	CMD-C2D-C1D	4.76	133.09	124.71
11	O	101	BCL	C3D-C2D-C1D	-4.75	99.35	105.83
11	T	102	BCL	C3D-C2D-C1D	-4.75	99.35	105.83
11	h	102	BCL	CHD-C4C-NC	4.75	130.35	125.08
11	V	102	BCL	C2D-C1D-ND	4.75	113.60	110.10
11	M	402	BCL	CHD-C4C-NC	4.75	130.35	125.08
11	U	101	BCL	CMD-C2D-C1D	4.73	133.05	124.71
11	N	102	BCL	CHD-C4C-NC	4.73	130.33	125.08
11	Y	101	BCL	C3D-C2D-C1D	-4.71	99.40	105.83
11	G	101	BCL	C4A-NA-C1A	4.71	108.82	106.71
11	c	101	BCL	C3D-C2D-C1D	-4.70	99.41	105.83
11	L	402	BCL	CED-O2D-CGD	4.70	126.57	115.94
11	M	402	BCL	C2D-C1D-ND	4.70	113.57	110.10
11	P	102	BCL	C3C-C4C-CHD	-4.70	113.35	123.39
11	E	102	BCL	O2D-CGD-CBD	4.69	119.60	111.27
11	j	103	BCL	C2D-C1D-ND	4.68	113.56	110.10
11	b	102	BCL	C2D-C1D-ND	4.68	113.55	110.10
11	K	101	BCL	C2D-C1D-ND	4.68	113.55	110.10
11	F	101	BCL	C3D-C2D-C1D	-4.68	99.45	105.83
11	d	102	BCL	C2D-C1D-ND	4.67	113.55	110.10
11	g	101	BCL	CMB-C2B-C3B	4.67	133.42	124.68
11	d	102	BCL	CMB-C2B-C3B	4.67	133.41	124.68
11	b	102	BCL	CHD-C4C-NC	4.66	130.25	125.08
11	Q	101	BCL	C3D-C2D-C1D	-4.66	99.48	105.83
11	N	101	BCL	C1-C2-C3	-4.66	117.99	126.04
11	M	403	BCL	CHD-C4C-NC	4.65	130.24	125.08
11	U	101	BCL	C3D-C2D-C1D	-4.64	99.49	105.83
11	j	103	BCL	C3C-C4C-CHD	-4.64	113.47	123.39
11	A	101	BCL	C4A-NA-C1A	4.64	108.79	106.71
11	h	102	BCL	C3C-C4C-CHD	-4.64	113.48	123.39
11	b	102	BCL	C3C-C4C-CHD	-4.64	113.49	123.39
11	A	101	BCL	CMB-C2B-C3B	4.63	133.35	124.68
11	G	101	BCL	CMB-C2B-C3B	4.62	133.32	124.68
11	T	102	BCL	CMB-C2B-C3B	4.61	133.31	124.68
11	I	101	BCL	C3D-C2D-C1D	-4.60	99.55	105.83
11	V	102	BCL	CHD-C4C-NC	4.60	130.19	125.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	P	102	BCL	CMB-C2B-C3B	4.60	133.28	124.68
11	M	402	BCL	CMB-C2B-C3B	4.59	133.27	124.68
11	M	402	BCL	C3D-C2D-C1D	-4.59	99.57	105.83
11	V	101	BCL	CMB-C2B-C3B	4.59	133.26	124.68
11	N	102	BCL	CMB-C2B-C3B	4.58	133.25	124.68
11	W	101	BCL	O2D-CGD-CBD	4.58	119.40	111.27
11	i	101	BCL	CHD-C4C-NC	4.57	130.16	125.08
11	c	101	BCL	CMB-C2B-C3B	4.56	133.22	124.68
11	i	101	BCL	O2D-CGD-CBD	4.56	119.37	111.27
11	b	102	BCL	O2D-CGD-CBD	4.56	119.37	111.27
11	T	102	BCL	C2D-C1D-ND	4.55	113.45	110.10
11	f	101	BCL	CMB-C2B-C3B	4.55	133.18	124.68
11	B	101	BCL	C3D-C2D-C1D	-4.54	99.64	105.83
11	D	101	BCL	C3D-C2D-C1D	-4.53	99.65	105.83
11	i	101	BCL	CMB-C2B-C3B	4.53	133.16	124.68
11	e	101	BCL	CHD-C4C-NC	4.53	130.11	125.08
11	j	103	BCL	O2D-CGD-CBD	4.52	119.30	111.27
11	N	102	BCL	C3C-C4C-CHD	-4.52	113.74	123.39
11	D	101	BCL	CHD-C4C-NC	4.51	130.09	125.08
11	Q	101	BCL	CMB-C2B-C3B	4.51	133.12	124.68
11	N	101	BCL	O2D-CGD-O1D	-4.51	115.02	123.84
11	b	102	BCL	CMB-C2B-C3B	4.49	133.07	124.68
11	d	101	BCL	C4A-NA-C1A	4.47	108.71	106.71
11	f	102	BCL	C3C-C4C-CHD	-4.46	113.85	123.39
11	K	101	BCL	CHD-C4C-NC	4.46	130.03	125.08
11	J	102	BCL	CMB-C2B-C3B	4.46	133.02	124.68
11	S	101	BCL	CMB-C2B-C3B	4.46	133.02	124.68
11	J	102	BCL	O2D-CGD-CBD	4.45	119.18	111.27
11	a	101	BCL	C3D-C2D-C1D	-4.45	99.76	105.83
11	Y	101	BCL	CHD-C4C-NC	4.45	130.02	125.08
11	Z	101	BCL	CMB-C2B-C3B	4.45	133.00	124.68
11	Y	101	BCL	O2D-CGD-CBD	4.44	119.16	111.27
11	c	101	BCL	CHD-C4C-NC	4.43	130.00	125.08
11	E	101	BCL	CMB-C2B-C3B	4.43	132.97	124.68
11	X	101	BCL	CMB-C2B-C3B	4.43	132.96	124.68
11	e	101	BCL	CMB-C2B-C3B	4.43	132.96	124.68
11	G	102	BCL	C2D-C1D-ND	4.43	113.36	110.10
11	X	102	BCL	C2D-C1D-ND	4.41	113.36	110.10
11	Z	101	BCL	C1C-NC-C4C	-4.41	104.72	106.71
11	L	401	BCL	C3D-C2D-C1D	-4.40	99.83	105.83
11	N	102	BCL	C4A-NA-C1A	4.40	108.68	106.71
11	E	101	BCL	O2D-CGD-O1D	-4.39	115.25	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	a	101	BCL	CMD-C2D-C1D	4.39	132.45	124.71
11	d	102	BCL	CHD-C4C-NC	4.39	129.95	125.08
11	d	101	BCL	CMB-C2B-C3B	4.38	132.88	124.68
11	e	101	BCL	O2D-CGD-CBD	4.38	119.06	111.27
11	I	101	BCL	CMB-C2B-C3B	4.37	132.86	124.68
16	I	102	CRT	C8-C7-C9	-4.37	116.80	122.92
11	K	101	BCL	O2D-CGD-CBD	4.36	119.02	111.27
11	c	101	BCL	O2D-CGD-CBD	4.36	119.01	111.27
11	V	102	BCL	C3C-C4C-CHD	-4.35	114.10	123.39
11	O	101	BCL	CHD-C4C-NC	4.35	129.91	125.08
11	Y	101	BCL	CMB-C2B-C3B	4.35	132.81	124.68
11	R	102	BCL	CHD-C4C-NC	4.34	129.89	125.08
16	U	102	CRT	C20-C21-C22	4.33	132.35	123.47
11	E	102	BCL	C2D-C1D-ND	4.33	113.30	110.10
11	F	101	BCL	CHD-C4C-NC	4.33	129.88	125.08
16	I	102	CRT	C6-C7-C9	4.32	125.57	118.94
11	M	402	BCL	C3C-C4C-CHD	-4.32	114.17	123.39
11	K	101	BCL	C3D-C2D-C1D	-4.30	99.96	105.83
9	H	301	PGV	O01-C1-C2	4.28	120.73	111.50
11	b	102	BCL	O2D-CGD-O1D	-4.28	115.46	123.84
11	f	102	BCL	CMB-C2B-C3B	4.28	132.69	124.68
11	I	101	BCL	CMD-C2D-C1D	4.28	132.25	124.71
11	j	102	BCL	CMB-C2B-C3B	4.27	132.68	124.68
11	X	102	BCL	CHD-C4C-NC	4.27	129.82	125.08
11	b	101	BCL	CMB-C2B-C3B	4.27	132.66	124.68
11	S	101	BCL	C3D-C2D-C1D	-4.26	100.02	105.83
11	L	402	BCL	O2D-CGD-CBD	4.26	118.83	111.27
11	R	102	BCL	C3C-C4C-CHD	-4.25	114.31	123.39
11	R	102	BCL	CMB-C2B-C3B	4.24	132.61	124.68
11	h	101	BCL	CMB-C2B-C3B	4.23	132.59	124.68
11	R	101	BCL	CMB-C2B-C3B	4.23	132.59	124.68
11	M	402	BCL	O2D-CGD-O1D	-4.23	115.58	123.84
11	G	102	BCL	CHD-C4C-NC	4.22	129.76	125.08
11	S	101	BCL	CHD-C4C-NC	4.22	129.76	125.08
11	V	101	BCL	C4A-NA-C1A	4.21	108.60	106.71
16	E	103	CRT	C5-C6-C7	4.19	132.23	125.89
9	C	508	PGV	O01-C1-C2	4.18	120.51	111.50
11	G	102	BCL	C3C-C4C-CHD	-4.18	114.46	123.39
16	B	102	CRT	C20-C21-C22	4.18	132.03	123.47
11	S	101	BCL	CMD-C2D-C1D	4.16	132.05	124.71
11	X	101	BCL	C1D-ND-C4D	-4.15	103.39	106.33
11	T	101	BCL	O2D-CGD-O1D	-4.14	115.73	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	E	101	BCL	C4A-NA-C1A	4.14	108.57	106.71
11	V	102	BCL	CMB-C2B-C3B	4.14	132.42	124.68
11	P	101	BCL	C1D-ND-C4D	-4.13	103.40	106.33
11	i	101	BCL	CMD-C2D-C1D	4.13	131.99	124.71
11	g	101	BCL	O2D-CGD-CBD	4.13	118.61	111.27
11	A	102	BCL	CMB-C2B-C3B	4.12	132.39	124.68
11	A	102	BCL	O2D-CGD-CBD	4.11	118.57	111.27
11	I	101	BCL	C1D-ND-C4D	-4.11	103.42	106.33
11	T	101	BCL	C4A-NA-C1A	4.09	108.54	106.71
11	X	102	BCL	C3C-C4C-CHD	-4.08	114.68	123.39
11	g	101	BCL	C1D-ND-C4D	-4.08	103.44	106.33
11	Q	101	BCL	CMD-C2D-C1D	4.08	131.90	124.71
9	M	408	PGV	O01-C1-C2	4.07	120.27	111.50
11	F	101	BCL	CMD-C2D-C1D	4.07	131.88	124.71
16	E	103	CRT	C8-C7-C9	-4.05	117.25	122.92
11	V	102	BCL	O2D-CGD-O1D	-4.05	115.93	123.84
11	e	101	BCL	C4A-NA-C1A	4.03	108.52	106.71
11	d	102	BCL	C3C-C4C-CHD	-4.03	114.78	123.39
11	L	401	BCL	O1D-CGD-CBD	-4.03	116.24	124.48
16	K	102	CRT	C20-C21-C22	4.03	131.72	123.47
11	X	102	BCL	O2D-CGD-O1D	-4.02	115.98	123.84
9	Z	103	PGV	O01-C1-C2	4.01	120.15	111.50
11	E	102	BCL	CHD-C4C-NC	4.01	129.53	125.08
16	j	101	CRT	C20-C21-C22	4.00	131.67	123.47
11	G	102	BCL	CMB-C2B-C3B	3.99	132.14	124.68
11	A	102	BCL	C4A-NA-C1A	3.98	108.50	106.71
16	Z	102	CRT	C21-C20-C19	3.97	131.60	123.47
16	e	102	CRT	C20-C21-C22	3.97	131.60	123.47
11	N	102	BCL	C4-C3-C5	3.97	121.94	115.27
11	G	101	BCL	O2D-CGD-O1D	-3.97	116.08	123.84
9	H	302	PGV	O01-C1-C2	3.96	120.04	111.50
11	U	101	BCL	O2D-CGD-CBD	3.96	118.31	111.27
16	E	103	CRT	C20-C21-C22	3.95	131.57	123.47
16	a	102	CRT	C20-C21-C22	3.94	131.54	123.47
16	E	103	CRT	C6-C7-C9	3.92	124.96	118.94
11	E	102	BCL	C3C-C4C-CHD	-3.92	115.02	123.39
11	P	102	BCL	C1C-NC-C4C	-3.92	104.94	106.71
11	E	102	BCL	C4-C3-C5	3.91	121.85	115.27
11	d	102	BCL	O2D-CGD-CBD	3.91	118.21	111.27
11	P	102	BCL	O2D-CGD-O1D	-3.90	116.21	123.84
16	A	103	CRT	C20-C21-C22	3.87	131.41	123.47
11	D	101	BCL	CMD-C2D-C1D	3.87	131.53	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	T	101	BCL	CMB-C2B-C3B	3.86	131.90	124.68
11	b	101	BCL	O2D-CGD-O1D	-3.84	116.32	123.84
11	I	101	BCL	O2D-CGD-CBD	3.84	118.09	111.27
11	N	101	BCL	C1C-NC-C4C	-3.83	104.98	106.71
11	L	402	BCL	O2A-CGA-CBA	3.82	123.89	111.91
11	G	102	BCL	O2D-CGD-O1D	-3.82	116.37	123.84
11	G	101	BCL	C1D-ND-C4D	-3.82	103.62	106.33
11	V	101	BCL	O2D-CGD-O1D	-3.82	116.37	123.84
11	j	103	BCL	O2D-CGD-O1D	-3.81	116.39	123.84
11	A	101	BCL	O2D-CGD-O1D	-3.80	116.40	123.84
16	I	102	CRT	C5-C6-C7	3.79	131.62	125.89
16	R	103	CRT	C20-C21-C22	3.79	131.24	123.47
11	F	101	BCL	O2D-CGD-CBD	3.79	118.00	111.27
16	I	102	CRT	C20-C21-C22	3.79	131.23	123.47
16	Z	102	CRT	C29-C28-C27	-3.76	117.65	122.92
11	A	101	BCL	C1D-ND-C4D	-3.76	103.67	106.33
11	d	101	BCL	O2D-CGD-O1D	-3.75	116.50	123.84
16	Z	102	CRT	C30-C28-C27	3.74	124.69	118.94
11	j	102	BCL	C1D-ND-C4D	-3.74	103.68	106.33
16	W	102	CRT	C20-C21-C22	3.74	131.13	123.47
11	J	102	BCL	O2D-CGD-O1D	-3.74	116.53	123.84
11	Z	101	BCL	C4A-NA-C1A	3.73	108.39	106.71
11	i	101	BCL	C1D-ND-C4D	-3.73	103.69	106.33
9	R	104	PGV	O01-C1-C2	3.69	119.46	111.50
11	A	102	BCL	C3C-C4C-CHD	-3.68	115.53	123.39
11	E	101	BCL	C1D-ND-C4D	-3.67	103.73	106.33
11	D	101	BCL	C4A-NA-C1A	3.65	108.35	106.71
11	A	102	BCL	CHB-C4A-NA	3.65	129.56	124.51
11	B	101	BCL	CMD-C2D-C1D	3.64	131.13	124.71
16	R	103	CRT	C8-C7-C9	-3.64	117.82	122.92
11	e	101	BCL	C1D-ND-C4D	-3.63	103.75	106.33
11	D	101	BCL	C1C-NC-C4C	-3.63	105.07	106.71
11	Z	101	BCL	O2D-CGD-O1D	-3.63	116.75	123.84
11	M	402	BCL	C1-O2A-CGA	3.62	125.95	116.44
16	Z	102	CRT	C9-C10-C11	3.62	134.51	123.22
9	M	407	PGV	O01-C1-C2	3.61	119.28	111.50
11	h	101	BCL	C1D-ND-C4D	-3.61	103.77	106.33
16	I	102	CRT	C13-C12-C14	-3.60	117.88	122.92
11	J	101	BCL	CMB-C2B-C3B	3.60	131.41	124.68
16	j	101	CRT	C8-C7-C9	-3.60	117.88	122.92
16	Y	102	CRT	C20-C21-C22	3.59	130.82	123.47
11	V	101	BCL	C1D-ND-C4D	-3.59	103.79	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	N	102	BCL	CHC-C1C-NC	3.58	129.46	124.51
11	W	101	BCL	C1D-ND-C4D	-3.58	103.80	106.33
11	f	102	BCL	O2D-CGD-O1D	-3.57	116.85	123.84
16	P	103	CRT	C8-C7-C9	-3.57	117.92	122.92
11	R	102	BCL	O2D-CGD-O1D	-3.57	116.86	123.84
11	R	102	BCL	C1D-ND-C4D	-3.56	103.80	106.33
16	Z	102	CRT	C20-C21-C22	3.56	130.77	123.47
11	d	101	BCL	C1-C2-C3	-3.56	119.88	126.04
11	O	101	BCL	O2D-CGD-CBD	3.56	117.60	111.27
11	a	101	BCL	O2D-CGD-CBD	3.56	117.59	111.27
11	T	102	BCL	C4-C3-C5	3.56	121.25	115.27
11	M	402	BCL	O2A-CGA-CBA	3.55	123.06	111.91
16	i	102	CRT	C20-C21-C22	3.55	130.74	123.47
11	E	101	BCL	C1-C2-C3	-3.54	119.92	126.04
16	A	103	CRT	C8-C7-C9	-3.53	117.97	122.92
11	I	101	BCL	C1-O2A-CGA	3.53	125.71	116.44
11	L	401	BCL	CHD-C4C-NC	3.53	129.00	125.08
11	D	101	BCL	O2D-CGD-CBD	3.52	117.53	111.27
16	Z	102	CRT	C18-C17-C19	-3.52	117.99	122.92
11	c	101	BCL	C1C-NC-C4C	-3.52	105.12	106.71
11	S	101	BCL	C1D-ND-C4D	-3.51	103.84	106.33
11	a	101	BCL	C1D-ND-C4D	-3.51	103.84	106.33
11	T	101	BCL	CAC-C3C-C4C	-3.51	104.78	112.58
11	L	401	BCL	O2D-CGD-O1D	-3.51	116.97	123.84
7	C	503	HEC	CMC-C2C-C1C	-3.50	123.08	128.46
11	E	101	BCL	C1C-NC-C4C	-3.49	105.14	106.71
16	i	102	CRT	C8-C7-C9	-3.48	118.04	122.92
11	J	101	BCL	O2D-CGD-O1D	-3.48	117.03	123.84
11	Q	101	BCL	O2D-CGD-CBD	3.48	117.45	111.27
11	Y	101	BCL	O2A-CGA-CBA	3.47	122.80	111.91
16	B	102	CRT	C8-C7-C9	-3.47	118.07	122.92
11	a	101	BCL	C1-O2A-CGA	3.47	125.54	116.44
16	Z	102	CRT	C24-C23-C22	-3.47	118.07	122.92
11	L	401	BCL	C3C-C4C-CHD	-3.47	115.99	123.39
11	b	101	BCL	C1-C2-C3	-3.46	120.06	126.04
11	M	402	BCL	C3D-C4D-ND	3.46	115.83	110.24
16	e	102	CRT	C8-C7-C9	-3.46	118.08	122.92
16	Z	102	CRT	C16-C17-C19	3.46	124.25	118.94
11	d	102	BCL	C4-C3-C5	3.46	121.08	115.27
16	N	103	CRT	C8-C7-C9	-3.45	118.09	122.92
11	P	101	BCL	CMB-C2B-C3B	3.45	131.13	124.68
9	C	508	PGV	O03-C19-C20	3.45	120.42	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Z	101	BCL	C1D-ND-C4D	-3.43	103.89	106.33
11	X	101	BCL	O2D-CGD-O1D	-3.43	117.12	123.84
16	U	102	CRT	C8-C7-C9	-3.43	118.12	122.92
11	d	101	BCL	C1D-ND-C4D	-3.43	103.90	106.33
11	E	102	BCL	O2D-CGD-O1D	-3.43	117.13	123.84
11	h	101	BCL	C1D-CHD-C4C	-3.42	118.37	126.62
11	N	101	BCL	C1D-ND-C4D	-3.42	103.91	106.33
11	a	101	BCL	O2A-CGA-CBA	3.42	122.63	111.91
11	L	402	BCL	C1D-ND-C4D	-3.41	103.91	106.33
11	h	102	BCL	O2D-CGD-O1D	-3.41	117.17	123.84
11	B	101	BCL	O2D-CGD-CBD	3.41	117.33	111.27
11	O	101	BCL	C1C-NC-C4C	-3.40	105.18	106.71
16	P	103	CRT	C20-C21-C22	3.39	130.42	123.47
16	N	103	CRT	C20-C21-C22	3.39	130.42	123.47
11	P	101	BCL	O2D-CGD-O1D	-3.38	117.23	123.84
16	Z	102	CRT	C34-C33-C32	-3.38	118.19	122.92
11	R	102	BCL	C4A-NA-C1A	3.37	108.22	106.71
11	X	101	BCL	C1C-NC-C4C	-3.37	105.19	106.71
16	E	103	CRT	C13-C12-C14	-3.37	118.21	122.92
11	J	102	BCL	C4A-NA-C1A	3.37	108.22	106.71
11	b	102	BCL	C4A-NA-C1A	3.36	108.22	106.71
11	P	101	BCL	CAC-C3C-C4C	-3.36	105.13	112.58
16	Z	102	CRT	C25-C23-C22	3.36	124.09	118.94
11	f	102	BCL	C1D-ND-C4D	-3.35	103.95	106.33
11	M	402	BCL	C1D-ND-C4D	-3.34	103.97	106.33
11	T	102	BCL	C1-C2-C3	-3.33	120.28	126.04
11	V	102	BCL	C4-C3-C5	3.32	120.86	115.27
11	F	101	BCL	C1D-ND-C4D	-3.32	103.98	106.33
11	N	102	BCL	O2A-CGA-CBA	3.32	122.32	111.91
7	C	504	HEC	CMC-C2C-C1C	-3.31	123.38	128.46
16	Y	102	CRT	C8-C7-C9	-3.31	118.28	122.92
11	j	102	BCL	C1D-CHD-C4C	-3.30	118.65	126.62
11	b	102	BCL	C4-C3-C5	3.30	120.83	115.27
16	A	103	CRT	C13-C12-C14	-3.30	118.30	122.92
11	L	402	BCL	O2A-CGA-O1A	-3.29	115.28	123.59
11	N	102	BCL	C6-C5-C3	-3.29	104.82	113.45
11	f	101	BCL	C4-C3-C5	3.29	120.80	115.27
11	L	401	BCL	C1-C2-C3	-3.28	120.37	126.04
11	A	102	BCL	C1D-ND-C4D	-3.27	104.01	106.33
16	I	102	CRT	C11-C12-C14	3.26	123.94	118.94
11	c	101	BCL	O2A-CGA-CBA	3.26	122.13	111.91
11	c	101	BCL	C1D-ND-C4D	-3.26	104.02	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	f	101	BCL	C1D-ND-C4D	-3.25	104.03	106.33
11	R	102	BCL	CHC-C1C-NC	3.25	129.00	124.51
11	U	101	BCL	C1D-ND-C4D	-3.25	104.03	106.33
11	P	101	BCL	C4-C3-C5	3.24	120.73	115.27
11	T	101	BCL	C1D-CHD-C4C	-3.24	118.80	126.62
11	j	103	BCL	CHC-C1C-NC	3.24	128.99	124.51
11	T	102	BCL	O2D-CGD-O1D	-3.24	117.51	123.84
11	N	102	BCL	O2D-CGD-O1D	-3.23	117.52	123.84
11	V	101	BCL	O2A-CGA-CBA	3.23	122.05	111.91
16	U	102	CRT	C24-C23-C22	-3.23	118.40	122.92
11	T	101	BCL	C1D-ND-C4D	-3.23	104.04	106.33
11	R	102	BCL	C4-C3-C5	3.22	120.69	115.27
16	K	102	CRT	C13-C12-C14	-3.22	118.41	122.92
11	j	102	BCL	O2D-CGD-O1D	-3.22	117.54	123.84
11	L	401	BCL	C2D-C1D-ND	3.22	112.48	110.10
11	P	101	BCL	C1-C2-C3	-3.22	120.47	126.04
16	W	102	CRT	C8-C7-C9	-3.22	118.42	122.92
11	R	102	BCL	C1C-NC-C4C	-3.22	105.26	106.71
16	A	103	CRT	C24-C23-C22	-3.21	118.42	122.92
11	J	101	BCL	C1-C2-C3	-3.21	120.48	126.04
11	h	101	BCL	C1-C2-C3	-3.21	120.49	126.04
11	O	101	BCL	O2A-CGA-CBA	3.21	121.99	111.91
12	M	404	BPH	OBD-CAD-CBD	-3.21	121.11	125.82
11	h	102	BCL	CHB-C4A-NA	3.20	128.94	124.51
11	T	102	BCL	C1D-ND-C4D	-3.20	104.06	106.33
16	K	102	CRT	C24-C23-C22	-3.20	118.44	122.92
11	M	403	BCL	C1D-ND-C4D	-3.20	104.06	106.33
11	j	102	BCL	C4-C3-C5	3.20	120.65	115.27
11	f	101	BCL	O2D-CGD-O1D	-3.19	117.59	123.84
11	d	102	BCL	CHB-C4A-NA	3.19	128.93	124.51
11	i	101	BCL	C1-C2-C3	-3.18	120.54	126.04
11	f	102	BCL	CHB-C4A-NA	3.17	128.90	124.51
11	D	101	BCL	C6-C5-C3	-3.17	105.15	113.45
11	c	101	BCL	C1-O2A-CGA	3.17	124.75	116.44
11	J	101	BCL	C1D-CHD-C4C	-3.16	118.99	126.62
11	I	101	BCL	C3D-C4D-ND	3.16	115.34	110.24
16	a	102	CRT	C24-C23-C22	-3.16	118.50	122.92
11	F	101	BCL	C4A-NA-C1A	3.16	108.12	106.71
11	Z	101	BCL	C4-C3-C5	3.15	120.58	115.27
16	E	103	CRT	C24-C23-C22	-3.15	118.50	122.92
11	D	101	BCL	C1D-ND-C4D	-3.14	104.10	106.33
16	e	102	CRT	C24-C23-C22	-3.14	118.52	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	W	101	BCL	O2D-CGD-O1D	-3.14	117.69	123.84
16	M	406	CRT	C8-C7-C9	-3.14	118.53	122.92
11	Q	101	BCL	C1D-ND-C4D	-3.13	104.11	106.33
16	W	102	CRT	C24-C23-C22	-3.13	118.53	122.92
16	Z	102	CRT	C10-C9-C7	3.13	131.78	127.31
16	j	101	CRT	C24-C23-C22	-3.13	118.54	122.92
11	N	101	BCL	C1D-CHD-C4C	-3.13	119.07	126.62
16	R	103	CRT	C13-C12-C14	-3.13	118.54	122.92
11	V	102	BCL	CHC-C1C-NC	3.12	128.83	124.51
11	A	101	BCL	C1D-CHD-C4C	-3.12	119.09	126.62
11	h	102	BCL	CHC-C1C-NC	3.12	128.83	124.51
11	N	102	BCL	C1C-NC-C4C	-3.12	105.30	106.71
16	B	102	CRT	C13-C12-C14	-3.12	118.55	122.92
7	C	503	HEC	CMB-C2B-C1B	-3.12	123.67	128.46
11	R	101	BCL	C4A-NA-C1A	3.12	108.11	106.71
16	Y	102	CRT	C24-C23-C22	-3.12	118.56	122.92
11	L	401	BCL	C1-O2A-CGA	3.12	124.62	116.44
16	B	102	CRT	C24-C23-C22	-3.11	118.56	122.92
11	R	101	BCL	O2D-CGD-O1D	-3.11	117.75	123.84
11	A	101	BCL	C4-C3-C5	3.11	120.51	115.27
11	T	102	BCL	CHC-C1C-NC	3.11	128.81	124.51
11	M	403	BCL	C1D-CHD-C4C	-3.11	119.13	126.62
11	B	101	BCL	C1-O2A-CGA	3.11	124.59	116.44
11	j	103	BCL	C4-C3-C5	3.10	120.49	115.27
16	R	103	CRT	C6-C7-C9	3.10	123.70	118.94
11	c	101	BCL	C4-C3-C5	3.10	120.48	115.27
11	M	403	BCL	C1-O2A-CGA	3.10	124.57	116.44
11	h	102	BCL	C4A-NA-C1A	3.10	108.10	106.71
11	A	101	BCL	C1-C2-C3	-3.10	120.69	126.04
16	W	102	CRT	C13-C12-C14	-3.09	118.60	122.92
11	K	101	BCL	C1D-ND-C4D	-3.09	104.14	106.33
16	Z	102	CRT	C5-C6-C7	3.08	130.55	125.89
16	e	102	CRT	C13-C12-C14	-3.08	118.61	122.92
16	I	102	CRT	C24-C23-C22	-3.07	118.62	122.92
11	Q	101	BCL	C1-O2A-CGA	3.07	124.51	116.44
11	T	102	BCL	C1C-NC-C4C	-3.07	105.33	106.71
11	h	102	BCL	C1C-NC-C4C	-3.07	105.33	106.71
11	P	102	BCL	C4-C3-C5	3.06	120.42	115.27
16	I	102	CRT	C9-C10-C11	3.06	132.78	123.22
16	R	103	CRT	C24-C23-C22	-3.06	118.63	122.92
16	K	102	CRT	C8-C7-C9	-3.06	118.64	122.92
11	S	101	BCL	C3D-C4D-ND	3.06	115.19	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	X	101	BCL	C1D-CHD-C4C	-3.06	119.25	126.62
11	b	101	BCL	C1D-CHD-C4C	-3.06	119.25	126.62
11	b	102	BCL	CHB-C4A-NA	3.06	128.74	124.51
11	E	102	BCL	C6-C5-C3	-3.05	105.45	113.45
16	j	101	CRT	C6-C7-C9	3.05	123.62	118.94
11	Q	101	BCL	C4A-NA-C1A	3.05	108.08	106.71
11	V	102	BCL	CHB-C4A-NA	3.05	128.73	124.51
11	D	101	BCL	C1D-CHD-C4C	-3.05	119.26	126.62
11	U	101	BCL	O2A-CGA-CBA	3.05	121.48	111.91
16	Y	102	CRT	C18-C17-C19	-3.05	118.65	122.92
11	J	101	BCL	C1D-ND-C4D	-3.05	104.17	106.33
11	T	102	BCL	C4A-NA-C1A	3.05	108.08	106.71
11	b	102	BCL	O2A-CGA-CBA	3.05	121.47	111.91
11	S	101	BCL	O2D-CGD-CBD	3.04	116.68	111.27
11	J	102	BCL	C4-C3-C5	3.04	120.39	115.27
16	a	102	CRT	C8-C7-C9	-3.04	118.66	122.92
12	L	403	BPH	OBD-CAD-CBD	-3.04	121.36	125.82
11	E	101	BCL	C1D-CHD-C4C	-3.04	119.29	126.62
11	Y	101	BCL	C1-O2A-CGA	3.04	124.41	116.44
9	H	302	PGV	C02-O01-C1	-3.03	110.34	117.79
16	K	102	CRT	C18-C17-C19	-3.03	118.68	122.92
11	i	101	BCL	O2A-CGA-CBA	3.03	121.41	111.91
11	d	101	BCL	C1D-CHD-C4C	-3.03	119.32	126.62
11	d	102	BCL	O2D-CGD-O1D	-3.02	117.92	123.84
16	j	101	CRT	C13-C12-C14	-3.02	118.69	122.92
11	G	101	BCL	C1D-CHD-C4C	-3.02	119.33	126.62
11	h	101	BCL	O2D-CGD-O1D	-3.02	117.93	123.84
11	B	101	BCL	C1D-ND-C4D	-3.02	104.19	106.33
16	P	103	CRT	C13-C12-C14	-3.02	118.69	122.92
11	f	101	BCL	C1D-CHD-C4C	-3.02	119.34	126.62
16	M	406	CRT	C34-C33-C32	-3.02	118.70	122.92
16	Y	102	CRT	C21-C20-C19	3.01	129.65	123.47
11	R	102	BCL	C3D-C4D-ND	3.01	115.11	110.24
16	i	102	CRT	C24-C23-C22	-3.01	118.71	122.92
11	R	101	BCL	O2A-CGA-CBA	3.01	121.35	111.91
11	G	102	BCL	CHC-C1C-NC	3.01	128.67	124.51
16	P	103	CRT	C24-C23-C22	-3.01	118.71	122.92
11	G	102	BCL	C4-C3-C5	3.00	120.32	115.27
11	D	101	BCL	O2A-CGA-CBA	3.00	121.32	111.91
16	Y	102	CRT	C13-C12-C14	-3.00	118.72	122.92
16	N	103	CRT	C13-C12-C14	-3.00	118.72	122.92
11	e	101	BCL	O2A-CGA-CBA	3.00	121.31	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	Y	101	BCL	C1C-NC-C4C	-3.00	105.36	106.71
11	T	102	BCL	C3D-C4D-ND	2.99	115.08	110.24
11	L	401	BCL	C1D-CHD-C4C	-2.99	119.40	126.62
11	i	101	BCL	C4-C3-C5	2.99	120.31	115.27
11	E	102	BCL	CHB-C4A-NA	2.99	128.65	124.51
11	b	102	BCL	CHC-C1C-NC	2.99	128.65	124.51
11	D	101	BCL	O2D-CGD-O1D	-2.99	117.99	123.84
16	N	103	CRT	C24-C23-C22	-2.99	118.74	122.92
11	d	102	BCL	CHC-C1C-NC	2.99	128.64	124.51
11	N	101	BCL	CAC-C3C-C4C	-2.98	105.96	112.58
11	K	101	BCL	O2A-CGA-CBA	2.98	121.27	111.91
11	M	403	BCL	O2A-CGA-CBA	2.98	121.27	111.91
11	X	102	BCL	CHC-C1C-NC	2.98	128.63	124.51
11	P	101	BCL	O2A-CGA-CBA	2.98	121.25	111.91
16	i	102	CRT	C13-C12-C14	-2.97	118.76	122.92
11	J	102	BCL	C1D-ND-C4D	-2.97	104.22	106.33
16	N	103	CRT	C18-C17-C19	-2.97	118.77	122.92
11	A	102	BCL	C4-C3-C5	2.97	120.26	115.27
16	P	103	CRT	C6-C7-C9	2.97	123.49	118.94
11	F	101	BCL	CHB-C4A-NA	2.96	128.61	124.51
16	E	103	CRT	C11-C12-C14	2.96	123.49	118.94
11	J	102	BCL	C1C-NC-C4C	-2.96	105.37	106.71
16	I	102	CRT	C18-C17-C19	-2.96	118.78	122.92
16	j	101	CRT	C18-C17-C19	-2.96	118.78	122.92
11	W	101	BCL	C3D-C4D-ND	2.96	115.02	110.24
11	V	101	BCL	C1-C2-C3	-2.95	120.93	126.04
11	Q	101	BCL	O2A-CGA-CBA	2.95	121.17	111.91
16	Z	102	CRT	C13-C12-C14	-2.95	118.79	122.92
9	M	408	PGV	O03-C19-C20	2.95	121.16	111.91
16	E	103	CRT	C18-C17-C19	-2.95	118.80	122.92
11	N	102	BCL	C1D-ND-C4D	-2.94	104.24	106.33
11	L	402	BCL	CHC-C1C-NC	2.94	128.58	124.51
16	U	102	CRT	C13-C12-C14	-2.94	118.80	122.92
11	L	401	BCL	C6-C5-C3	-2.94	105.74	113.45
11	V	101	BCL	C1D-CHD-C4C	-2.94	119.53	126.62
16	P	103	CRT	C18-C17-C19	-2.94	118.80	122.92
9	L	410	PGV	O03-C19-C20	2.94	121.13	111.91
16	Z	102	CRT	C35-C33-C32	2.94	123.45	118.94
11	j	103	BCL	C4A-NA-C1A	2.93	108.03	106.71
11	A	102	BCL	CHC-C1C-NC	2.93	128.56	124.51
11	E	102	BCL	CHC-C1C-NC	2.93	128.56	124.51
11	I	101	BCL	CHC-C1C-NC	2.93	128.56	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	i	101	BCL	C1D-CHD-C4C	-2.93	119.56	126.62
16	U	102	CRT	C6-C7-C9	2.92	123.42	118.94
11	a	101	BCL	O2D-CGD-O1D	-2.92	118.13	123.84
11	T	101	BCL	C1-C2-C3	-2.92	121.00	126.04
11	S	101	BCL	O2A-CGA-CBA	2.91	121.05	111.91
11	Z	101	BCL	CAC-C3C-C4C	-2.91	106.12	112.58
16	e	102	CRT	C6-C7-C9	2.91	123.41	118.94
11	a	101	BCL	C3D-C4D-ND	2.91	114.94	110.24
11	R	101	BCL	CAC-C3C-C4C	-2.90	106.14	112.58
11	V	102	BCL	C1D-ND-C4D	-2.90	104.27	106.33
16	R	103	CRT	C18-C17-C19	-2.90	118.86	122.92
9	H	301	PGV	C02-O01-C1	-2.89	110.67	117.79
16	a	102	CRT	C29-C28-C27	-2.89	118.87	122.92
16	U	102	CRT	C18-C17-C19	-2.89	118.88	122.92
16	M	406	CRT	C24-C23-C22	-2.89	118.88	122.92
11	X	102	BCL	CHB-C4A-NA	2.89	128.51	124.51
7	C	502	HEC	CMC-C2C-C1C	-2.89	124.03	128.46
11	S	101	BCL	C1-O2A-CGA	2.89	124.02	116.44
11	F	101	BCL	C1D-CHD-C4C	-2.89	119.66	126.62
11	K	101	BCL	O2D-CGD-O1D	-2.88	118.20	123.84
11	j	102	BCL	O2A-CGA-CBA	2.88	120.94	111.91
16	A	103	CRT	C6-C7-C9	2.88	123.36	118.94
11	G	101	BCL	C1-C2-C3	-2.87	121.07	126.04
16	K	102	CRT	C25-C23-C22	2.87	123.35	118.94
11	h	101	BCL	C4-C3-C5	2.87	120.10	115.27
11	Z	101	BCL	C3D-C4D-ND	2.87	114.88	110.24
11	c	101	BCL	O2D-CGD-O1D	-2.87	118.23	123.84
11	d	101	BCL	O2A-CGA-CBA	2.87	120.90	111.91
9	R	104	PGV	O03-C19-C20	2.87	120.90	111.91
16	M	406	CRT	C13-C12-C14	-2.86	118.91	122.92
11	M	403	BCL	C3D-C4D-ND	2.86	114.87	110.24
11	W	101	BCL	C4-C3-C5	2.86	120.08	115.27
11	Z	101	BCL	C1D-CHD-C4C	-2.86	119.73	126.62
11	g	101	BCL	C3D-C4D-ND	2.85	114.86	110.24
16	a	102	CRT	C18-C17-C19	-2.85	118.92	122.92
16	B	102	CRT	C18-C17-C19	-2.85	118.93	122.92
11	I	101	BCL	C4-C3-C5	2.85	120.07	115.27
16	e	102	CRT	C18-C17-C19	-2.85	118.93	122.92
16	A	103	CRT	C18-C17-C19	-2.85	118.93	122.92
16	i	102	CRT	C18-C17-C19	-2.85	118.93	122.92
11	I	101	BCL	O2A-CGA-CBA	2.85	120.85	111.91
11	T	101	BCL	O2A-CGA-CBA	2.85	120.85	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	B	101	BCL	C1C-NC-C4C	-2.85	105.43	106.71
16	B	102	CRT	C34-C33-C32	-2.84	118.94	122.92
9	H	301	PGV	O03-C19-C20	2.84	120.82	111.91
11	i	101	BCL	C3D-C4D-ND	2.84	114.83	110.24
16	W	102	CRT	C18-C17-C19	-2.83	118.95	122.92
11	e	101	BCL	C1C-NC-C4C	-2.83	105.43	106.71
16	a	102	CRT	C13-C12-C14	-2.83	118.96	122.92
11	L	401	BCL	O2A-CGA-CBA	2.83	120.78	111.91
11	F	101	BCL	C3D-C4D-ND	2.83	114.81	110.24
11	i	101	BCL	O2D-CGD-O1D	-2.83	118.31	123.84
11	a	101	BCL	C1D-CHD-C4C	-2.83	119.81	126.62
11	b	102	BCL	C1C-NC-C4C	-2.82	105.44	106.71
11	d	101	BCL	CED-O2D-CGD	2.82	122.32	115.94
11	f	101	BCL	C1-C2-C3	-2.82	121.17	126.04
11	I	101	BCL	O2D-CGD-O1D	-2.82	118.33	123.84
11	D	101	BCL	C1-O2A-CGA	2.82	123.83	116.44
11	P	102	BCL	CHC-C1C-NC	2.82	128.41	124.51
11	K	101	BCL	C3D-C4D-ND	2.82	114.79	110.24
16	Y	102	CRT	C29-C28-C27	-2.81	118.98	122.92
11	G	101	BCL	C3D-C4D-ND	2.81	114.79	110.24
16	B	102	CRT	C6-C7-C9	2.81	123.25	118.94
11	e	101	BCL	C3D-C4D-ND	2.81	114.78	110.24
11	J	102	BCL	CHC-C1C-NC	2.81	128.39	124.51
16	A	103	CRT	C25-C23-C22	2.80	123.24	118.94
11	W	101	BCL	C1-C2-C3	-2.80	121.20	126.04
11	f	102	BCL	C3D-C4D-ND	2.80	114.76	110.24
16	E	103	CRT	C25-C23-C22	2.80	123.23	118.94
11	L	401	BCL	C3D-C4D-ND	2.80	114.76	110.24
11	N	101	BCL	C6-C5-C3	-2.79	106.13	113.45
11	L	402	BCL	C4-C3-C5	2.79	119.97	115.27
11	U	101	BCL	C3D-C4D-ND	2.79	114.76	110.24
11	E	101	BCL	O2A-CGA-CBA	2.79	120.67	111.91
11	Q	101	BCL	O2D-CGD-O1D	-2.79	118.38	123.84
11	L	401	BCL	C4-C3-C5	2.79	119.97	115.27
11	c	101	BCL	C6-C5-C3	-2.79	106.14	113.45
11	L	402	BCL	CMB-C2B-C1B	-2.79	124.18	128.46
11	U	101	BCL	C1D-CHD-C4C	-2.79	119.90	126.62
11	G	102	BCL	C3D-C4D-ND	2.79	114.74	110.24
16	K	102	CRT	C29-C28-C27	-2.78	119.03	122.92
11	Y	101	BCL	C4-C3-C5	2.78	119.95	115.27
11	J	102	BCL	CHB-C4A-NA	2.78	128.35	124.51
11	b	102	BCL	C6-C5-C3	-2.78	106.17	113.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	N	103	CRT	C6-C7-C9	2.78	123.20	118.94
11	f	101	BCL	C1-O2A-CGA	2.78	123.72	116.44
7	C	501	HEC	CMC-C2C-C1C	-2.77	124.20	128.46
11	X	101	BCL	C3D-C4D-ND	2.77	114.72	110.24
16	N	103	CRT	C29-C28-C27	-2.77	119.04	122.92
11	U	101	BCL	C4A-NA-C1A	2.77	107.95	106.71
16	U	102	CRT	C25-C23-C22	2.77	123.19	118.94
11	h	102	BCL	O2A-CGA-CBA	2.77	120.59	111.91
16	B	102	CRT	C29-C28-C27	-2.76	119.05	122.92
11	B	101	BCL	O2D-CGD-O1D	-2.76	118.44	123.84
11	W	101	BCL	O2A-CGA-CBA	2.76	120.58	111.91
16	I	102	CRT	C29-C28-C27	-2.76	119.06	122.92
11	j	103	BCL	O2A-CGA-CBA	2.75	120.54	111.91
16	a	102	CRT	C34-C33-C32	-2.75	119.07	122.92
11	O	101	BCL	O2D-CGD-O1D	-2.75	118.46	123.84
11	N	102	BCL	CHB-C4A-NA	2.75	128.31	124.51
11	O	101	BCL	C1D-ND-C4D	-2.75	104.38	106.33
11	R	101	BCL	C1D-ND-C4D	-2.75	104.38	106.33
9	H	302	PGV	O03-C19-C20	2.74	120.52	111.91
11	P	101	BCL	C1D-CHD-C4C	-2.74	120.00	126.62
11	c	101	BCL	C3D-C4D-ND	2.74	114.67	110.24
11	P	102	BCL	C4B-CHC-C1C	-2.74	124.69	130.12
9	L	410	PGV	C3-C2-C1	-2.74	103.65	113.62
11	B	101	BCL	O2A-CGA-CBA	2.74	120.51	111.91
11	J	102	BCL	C3D-C4D-ND	2.74	114.67	110.24
11	f	101	BCL	C3D-C4D-ND	2.74	114.67	110.24
11	Q	101	BCL	C3D-C4D-ND	2.73	114.66	110.24
11	P	102	BCL	C1D-ND-C4D	-2.73	104.39	106.33
11	G	102	BCL	C1D-ND-C4D	-2.73	104.40	106.33
16	N	103	CRT	C34-C33-C32	-2.72	119.11	122.92
11	f	102	BCL	CHC-C1C-NC	2.72	128.28	124.51
11	J	101	BCL	O2A-CGA-CBA	2.72	120.45	111.91
16	e	102	CRT	C25-C23-C22	2.72	123.12	118.94
11	R	101	BCL	C1D-CHD-C4C	-2.72	120.06	126.62
16	U	102	CRT	C29-C28-C27	-2.72	119.11	122.92
11	O	101	BCL	C6-C5-C3	-2.72	106.32	113.45
11	V	102	BCL	C3D-C4D-ND	2.72	114.64	110.24
11	e	101	BCL	C1-O2A-CGA	2.72	123.57	116.44
11	P	102	BCL	O2A-CGA-CBA	2.72	120.44	111.91
16	Y	102	CRT	C34-C33-C32	-2.72	119.12	122.92
16	i	102	CRT	C34-C33-C32	-2.72	119.12	122.92
16	M	406	CRT	C29-C28-C27	-2.71	119.12	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	C	502	HEC	CMB-C2B-C1B	-2.71	124.29	128.46
16	i	102	CRT	C29-C28-C27	-2.71	119.12	122.92
11	b	101	BCL	O2A-CGA-CBA	2.71	120.42	111.91
11	N	102	BCL	C3D-C4D-ND	2.71	114.63	110.24
16	Y	102	CRT	C6-C7-C9	2.71	123.10	118.94
11	P	101	BCL	C3D-C4D-ND	2.71	114.62	110.24
11	h	102	BCL	C4-C3-C5	2.71	119.83	115.27
16	e	102	CRT	C29-C28-C27	-2.71	119.12	122.92
11	L	402	BCL	C3D-C4D-ND	2.71	114.62	110.24
9	L	410	PGV	C02-O01-C1	-2.71	111.12	117.79
11	A	102	BCL	C3D-C4D-ND	2.71	114.62	110.24
11	X	101	BCL	C1-C2-C3	-2.71	121.36	126.04
11	G	101	BCL	CAC-C3C-C4C	-2.71	106.58	112.58
11	B	101	BCL	C1D-CHD-C4C	-2.71	120.09	126.62
11	e	101	BCL	CHB-C4A-NA	2.71	128.25	124.51
11	j	103	BCL	CHB-C4A-NA	2.70	128.25	124.51
11	K	101	BCL	C4-C3-C5	2.70	119.82	115.27
11	V	101	BCL	C3D-C4D-ND	2.70	114.61	110.24
11	E	101	BCL	CAC-C3C-C4C	-2.70	106.59	112.58
16	E	103	CRT	C29-C28-C27	-2.70	119.14	122.92
11	T	102	BCL	C1D-CHD-C4C	-2.70	120.11	126.62
16	P	103	CRT	C34-C33-C32	-2.70	119.15	122.92
16	R	103	CRT	C34-C33-C32	-2.69	119.15	122.92
11	L	402	BCL	C4A-NA-C1A	2.69	107.92	106.71
11	i	101	BCL	C1-O2A-CGA	2.69	123.50	116.44
11	d	102	BCL	C6-C5-C3	-2.69	106.40	113.45
11	a	101	BCL	O2A-C1-C2	-2.69	101.57	108.64
11	Y	101	BCL	C1D-CHD-C4C	-2.69	120.13	126.62
11	G	101	BCL	C4-C3-C5	2.69	119.79	115.27
16	A	103	CRT	C11-C12-C14	2.69	123.06	118.94
11	h	102	BCL	C1D-ND-C4D	-2.69	104.43	106.33
16	A	103	CRT	C29-C28-C27	-2.69	119.16	122.92
11	R	101	BCL	C3D-C4D-ND	2.68	114.57	110.24
16	W	102	CRT	C29-C28-C27	-2.68	119.17	122.92
11	d	102	BCL	C1D-ND-C4D	-2.68	104.43	106.33
11	F	101	BCL	O2A-CGA-CBA	2.68	120.31	111.91
11	R	102	BCL	C1D-CHD-C4C	-2.68	120.16	126.62
11	Q	101	BCL	C1D-CHD-C4C	-2.67	120.17	126.62
11	d	101	BCL	CHC-C1C-NC	2.67	128.21	124.51
16	W	102	CRT	C6-C7-C9	2.67	123.04	118.94
11	e	101	BCL	C1D-CHD-C4C	-2.67	120.17	126.62
16	P	103	CRT	C29-C28-C27	-2.67	119.18	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	V	102	BCL	C4A-NA-C1A	2.67	107.91	106.71
16	j	101	CRT	C34-C33-C32	-2.66	119.19	122.92
16	a	102	CRT	C25-C23-C22	2.66	123.02	118.94
11	j	103	BCL	C4B-CHC-C1C	-2.66	124.86	130.12
11	i	101	BCL	CHB-C4A-NA	2.65	128.18	124.51
11	j	102	BCL	CAC-C3C-C4C	-2.65	106.69	112.58
11	Z	101	BCL	O2A-CGA-CBA	2.65	120.23	111.91
11	A	102	BCL	O2D-CGD-O1D	-2.65	118.66	123.84
16	U	102	CRT	C34-C33-C32	-2.65	119.21	122.92
11	X	101	BCL	O2A-CGA-CBA	2.65	120.22	111.91
11	G	102	BCL	O2A-CGA-CBA	2.65	120.21	111.91
16	M	406	CRT	C18-C17-C19	-2.65	119.22	122.92
11	G	102	BCL	C1C-NC-C4C	-2.64	105.52	106.71
11	d	101	BCL	C3D-C4D-ND	2.64	114.51	110.24
11	a	101	BCL	C4-C3-C5	2.64	119.72	115.27
16	K	102	CRT	C11-C12-C14	2.64	122.99	118.94
16	I	102	CRT	C34-C33-C32	-2.64	119.23	122.92
11	b	102	BCL	OBB-CAB-C3B	-2.64	115.31	119.99
16	W	102	CRT	C34-C33-C32	-2.63	119.23	122.92
16	B	102	CRT	C25-C23-C22	2.63	122.98	118.94
11	U	101	BCL	O2D-CGD-O1D	-2.63	118.69	123.84
11	T	102	BCL	CHB-C4A-NA	2.63	128.15	124.51
11	j	102	BCL	CHB-C4A-NA	2.63	128.15	124.51
11	X	101	BCL	CHC-C1C-NC	2.63	128.15	124.51
11	g	101	BCL	C1-C2-C3	-2.63	121.50	126.04
16	P	103	CRT	C21-C20-C19	2.63	128.85	123.47
11	A	101	BCL	C3D-C4D-ND	2.63	114.48	110.24
12	L	403	BPH	CMB-C2B-C3B	2.62	129.59	124.68
11	U	101	BCL	C1-O2A-CGA	2.62	123.33	116.44
11	i	101	BCL	C1C-NC-C4C	-2.62	105.53	106.71
16	E	103	CRT	C34-C33-C32	-2.62	119.25	122.92
11	G	101	BCL	O2A-CGA-CBA	2.62	120.13	111.91
11	c	101	BCL	CHC-C1C-NC	2.62	128.13	124.51
11	N	101	BCL	C4-C3-C5	2.62	119.68	115.27
11	J	102	BCL	C1D-CHD-C4C	-2.62	120.30	126.62
11	b	101	BCL	C4-C3-C5	2.62	119.68	115.27
11	R	102	BCL	CHB-C4A-NA	2.62	128.13	124.51
16	j	101	CRT	C29-C28-C27	-2.62	119.25	122.92
16	i	102	CRT	C6-C7-C9	2.62	122.96	118.94
11	A	102	BCL	C1D-CHD-C4C	-2.61	120.32	126.62
11	V	101	BCL	C4-C3-C5	2.61	119.66	115.27
11	j	103	BCL	C1D-CHD-C4C	-2.61	120.33	126.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	c	101	BCL	C1D-CHD-C4C	-2.61	120.33	126.62
11	b	101	BCL	C4A-NA-C1A	2.61	107.88	106.71
12	M	404	BPH	CMD-C2D-C3D	2.61	129.55	124.68
11	B	101	BCL	C4A-NA-C1A	2.60	107.88	106.71
11	E	102	BCL	C3D-C4D-ND	2.60	114.45	110.24
11	T	102	BCL	O2A-CGA-CBA	2.60	120.06	111.91
11	F	101	BCL	C1-O2A-CGA	2.60	123.26	116.44
16	W	102	CRT	C25-C23-C22	2.60	122.93	118.94
11	I	101	BCL	C1D-CHD-C4C	-2.60	120.36	126.62
11	V	102	BCL	O2A-CGA-CBA	2.60	120.06	111.91
11	I	101	BCL	C4A-NA-C1A	2.60	107.87	106.71
16	e	102	CRT	C34-C33-C32	-2.59	119.29	122.92
11	F	101	BCL	C1-C2-C3	-2.59	121.56	126.04
11	W	101	BCL	C1D-CHD-C4C	-2.59	120.37	126.62
11	b	101	BCL	CAC-C3C-C4C	-2.59	106.84	112.58
7	C	504	HEC	CMB-C2B-C1B	-2.59	124.48	128.46
11	h	102	BCL	C1D-CHD-C4C	-2.58	120.39	126.62
16	I	102	CRT	C25-C23-C22	2.58	122.90	118.94
11	f	102	BCL	C1D-CHD-C4C	-2.58	120.40	126.62
16	A	103	CRT	C34-C33-C32	-2.58	119.31	122.92
11	G	102	BCL	CHB-C4A-NA	2.58	128.07	124.51
11	J	101	BCL	C4-C3-C5	2.58	119.60	115.27
11	G	101	BCL	C1-O2A-CGA	2.57	123.20	116.44
16	N	103	CRT	C21-C20-C19	2.57	128.75	123.47
11	E	101	BCL	CAA-C2A-C3A	-2.57	105.74	112.78
16	R	103	CRT	C29-C28-C27	-2.57	119.32	122.92
9	M	407	PGV	O03-C19-C20	2.57	119.97	111.91
11	j	102	BCL	C3D-C4D-ND	2.57	114.39	110.24
11	K	101	BCL	C1-O2A-CGA	2.56	123.17	116.44
11	N	102	BCL	C5-C3-C2	-2.56	115.93	121.12
11	J	102	BCL	C16-C15-C13	-2.56	107.63	115.92
16	j	101	CRT	C25-C23-C22	2.56	122.87	118.94
9	Z	103	PGV	O03-C19-C20	2.56	119.94	111.91
11	R	101	BCL	C4-C3-C5	2.56	119.58	115.27
11	E	101	BCL	C3D-C4D-ND	2.56	114.37	110.24
11	h	101	BCL	C3D-C4D-ND	2.55	114.37	110.24
11	Q	101	BCL	C4-C3-C5	2.55	119.56	115.27
16	Y	102	CRT	C5-C6-C7	2.55	129.74	125.89
11	b	101	BCL	C1D-ND-C4D	-2.55	104.53	106.33
16	R	103	CRT	C25-C23-C22	2.55	122.85	118.94
16	K	102	CRT	C6-C7-C9	2.54	122.84	118.94
16	Y	102	CRT	C25-C23-C22	2.54	122.84	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	U	101	BCL	C4-C3-C5	2.54	119.55	115.27
11	S	101	BCL	O2D-CGD-O1D	-2.54	118.87	123.84
11	O	101	BCL	C3D-C4D-ND	2.54	114.35	110.24
11	O	101	BCL	C1D-CHD-C4C	-2.54	120.50	126.62
16	K	102	CRT	C34-C33-C32	-2.54	119.37	122.92
16	R	103	CRT	C11-C12-C14	2.53	122.83	118.94
11	J	101	BCL	C1-O2A-CGA	2.53	123.08	116.44
16	K	102	CRT	C36-C35-C33	2.53	129.71	125.89
11	J	102	BCL	O2A-CGA-CBA	2.53	119.83	111.91
11	T	101	BCL	C3D-C4D-ND	2.53	114.32	110.24
11	M	403	BCL	CAA-C2A-C3A	-2.53	105.86	112.78
11	g	101	BCL	O2A-CGA-CBA	2.52	119.83	111.91
11	L	402	BCL	C1D-CHD-C4C	-2.52	120.54	126.62
16	B	102	CRT	C11-C12-C14	2.52	122.81	118.94
7	C	501	HEC	CMB-C2B-C1B	-2.52	124.59	128.46
11	F	101	BCL	C4-C3-C5	2.52	119.51	115.27
11	g	101	BCL	C1-O2A-CGA	2.52	123.05	116.44
11	e	101	BCL	C1-C2-C3	-2.52	121.69	126.04
11	d	102	BCL	C3D-C4D-ND	2.51	114.31	110.24
11	g	101	BCL	C4-C3-C5	2.51	119.50	115.27
11	b	102	BCL	C1D-CHD-C4C	-2.51	120.56	126.62
11	b	101	BCL	C3D-C4D-ND	2.51	114.30	110.24
11	Y	101	BCL	O2D-CGD-O1D	-2.51	118.93	123.84
11	T	101	BCL	CHC-C1C-NC	2.51	127.98	124.51
11	B	101	BCL	CMB-C2B-C1B	-2.51	124.61	128.46
11	B	101	BCL	CAC-C3C-C4C	-2.50	107.03	112.58
11	g	101	BCL	C1D-CHD-C4C	-2.50	120.59	126.62
11	P	102	BCL	C3D-C4D-ND	2.50	114.28	110.24
11	E	102	BCL	C1D-ND-C4D	-2.50	104.56	106.33
11	I	101	BCL	CHB-C4A-NA	2.50	127.97	124.51
11	J	102	BCL	C6-C5-C3	-2.49	106.92	113.45
11	N	101	BCL	C3D-C4D-ND	2.49	114.27	110.24
11	S	101	BCL	C1D-CHD-C4C	-2.49	120.61	126.62
11	J	101	BCL	CAC-C3C-C4C	-2.49	107.06	112.58
16	E	103	CRT	C9-C10-C11	2.49	130.98	123.22
11	f	102	BCL	C4-C3-C5	2.49	119.45	115.27
16	K	102	CRT	C31-C32-C33	2.49	130.86	127.31
12	M	404	BPH	C6-C5-C3	2.48	119.96	113.45
16	i	102	CRT	C25-C23-C22	2.48	122.75	118.94
11	Y	101	BCL	C1D-ND-C4D	-2.48	104.57	106.33
11	B	101	BCL	C3D-C4D-ND	2.48	114.25	110.24
16	M	406	CRT	C6-C7-C9	2.48	122.74	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	S	101	BCL	CHB-C4A-NA	2.48	127.94	124.51
11	E	102	BCL	C1-C2-C3	-2.48	121.76	126.04
16	P	103	CRT	C25-C23-C22	2.47	122.73	118.94
11	M	402	BCL	CHC-C1C-NC	2.47	127.93	124.51
11	M	402	BCL	CHD-C1D-C2D	2.47	130.66	125.48
11	G	102	BCL	C6-C5-C3	-2.47	106.98	113.45
11	M	403	BCL	CED-O2D-CGD	2.47	121.52	115.94
11	K	101	BCL	C1D-CHD-C4C	-2.47	120.67	126.62
11	E	101	BCL	C4-C3-C5	2.47	119.42	115.27
11	V	102	BCL	C1D-CHD-C4C	-2.47	120.67	126.62
16	M	406	CRT	C35-C33-C32	2.46	122.72	118.94
11	a	101	BCL	C4A-NA-C1A	2.46	107.81	106.71
11	M	402	BCL	CAA-CBA-CGA	-2.46	106.06	113.25
9	C	508	PGV	C02-O01-C1	-2.46	111.73	117.79
11	P	102	BCL	C1D-CHD-C4C	-2.46	120.69	126.62
16	U	102	CRT	C36-C35-C33	2.45	129.60	125.89
16	i	102	CRT	C21-C20-C19	2.45	128.50	123.47
11	Y	101	BCL	C3D-C4D-ND	2.45	114.20	110.24
11	A	102	BCL	CED-O2D-CGD	2.45	121.48	115.94
11	N	102	BCL	C1D-CHD-C4C	-2.45	120.71	126.62
11	Q	101	BCL	CHB-C4A-NA	2.44	127.89	124.51
11	D	101	BCL	C3D-C4D-ND	2.44	114.19	110.24
11	F	101	BCL	CED-O2D-CGD	2.44	121.45	115.94
11	Y	101	BCL	CHC-C1C-NC	2.44	127.88	124.51
11	a	101	BCL	C1C-NC-C4C	-2.44	105.61	106.71
11	A	101	BCL	C1-O2A-CGA	2.43	122.83	116.44
16	K	102	CRT	C21-C20-C19	2.43	128.46	123.47
11	S	101	BCL	C11-C12-C13	-2.43	108.06	115.92
11	N	102	BCL	C4B-CHC-C1C	-2.43	125.30	130.12
9	Z	103	PGV	C02-O01-C1	-2.43	111.80	117.79
12	L	403	BPH	CMD-C2D-C3D	2.43	129.22	124.68
11	S	101	BCL	C1C-NC-C4C	-2.43	105.61	106.71
11	c	101	BCL	C4A-NA-C1A	2.43	107.80	106.71
16	N	103	CRT	C25-C23-C22	2.42	122.66	118.94
11	W	101	BCL	C1-O2A-CGA	2.42	122.80	116.44
12	L	403	BPH	OBB-CAB-CBB	-2.42	114.72	120.17
11	U	101	BCL	CHC-C1C-NC	2.42	127.86	124.51
16	e	102	CRT	C11-C12-C14	2.42	122.65	118.94
11	j	103	BCL	C1C-NC-C4C	-2.42	105.62	106.71
11	h	101	BCL	O2A-CGA-CBA	2.41	119.49	111.91
11	j	103	BCL	CED-O2D-CGD	2.41	121.40	115.94
11	F	101	BCL	CBA-CAA-C2A	-2.41	106.74	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	K	101	BCL	C4D-CHA-C1A	-2.41	118.32	121.25
11	b	101	BCL	CED-O2D-CGD	2.41	121.39	115.94
11	R	102	BCL	O2A-CGA-CBA	2.40	119.45	111.91
16	e	102	CRT	C31-C32-C33	2.40	130.74	127.31
16	Y	102	CRT	C11-C12-C14	2.40	122.62	118.94
11	X	102	BCL	O2A-CGA-CBA	2.40	119.43	111.91
11	N	101	BCL	CAA-C2A-C3A	-2.40	106.22	112.78
11	X	102	BCL	C3D-C4D-ND	2.39	114.11	110.24
11	W	101	BCL	CHB-C4A-NA	2.39	127.81	124.51
16	a	102	CRT	C5-C6-C7	2.39	129.50	125.89
11	J	101	BCL	C3D-C4D-ND	2.38	114.09	110.24
11	A	102	BCL	O2A-CGA-CBA	2.38	119.38	111.91
11	b	102	BCL	C1D-ND-C4D	-2.38	104.64	106.33
11	b	101	BCL	CHC-C1C-NC	2.38	127.81	124.51
12	M	404	BPH	C11-C10-C8	2.38	123.61	115.92
11	N	102	BCL	O2A-CGA-O1A	-2.38	117.59	123.59
9	L	410	PGV	O03-C19-O04	-2.38	117.60	123.59
11	X	101	BCL	CAC-C3C-C4C	-2.37	107.31	112.58
11	b	102	BCL	C3D-C4D-ND	2.37	114.08	110.24
11	e	101	BCL	C4-C3-C5	2.37	119.26	115.27
11	L	402	BCL	O2D-CGD-O1D	-2.37	119.21	123.84
11	j	103	BCL	C1D-ND-C4D	-2.37	104.65	106.33
16	W	102	CRT	C11-C12-C14	2.37	122.57	118.94
11	j	103	BCL	C3D-C4D-ND	2.37	114.06	110.24
16	A	103	CRT	C31-C32-C33	2.36	130.69	127.31
11	g	101	BCL	O2D-CGD-O1D	-2.36	119.22	123.84
16	I	102	CRT	C36-C35-C33	2.36	129.46	125.89
11	N	101	BCL	CHC-C1C-NC	2.36	127.78	124.51
11	L	402	BCL	C4D-CHA-C1A	-2.36	118.38	121.25
11	Q	101	BCL	CHC-C1C-NC	2.36	127.77	124.51
16	j	101	CRT	C11-C12-C14	2.36	122.56	118.94
11	X	101	BCL	CAA-C2A-C3A	-2.35	106.33	112.78
16	Z	102	CRT	C27-C26-C25	2.35	130.55	123.22
11	d	102	BCL	CMD-C2D-C3D	-2.35	122.21	127.61
11	P	101	BCL	O2A-CGA-O1A	-2.35	117.67	123.59
11	O	101	BCL	C1-O2A-CGA	2.35	122.60	116.44
11	M	403	BCL	O2A-CGA-O1A	-2.35	117.67	123.59
11	j	102	BCL	CHC-C1C-NC	2.35	127.76	124.51
16	Y	102	CRT	C16-C17-C19	2.34	122.54	118.94
11	Q	101	BCL	C1C-NC-C4C	-2.34	105.65	106.71
11	P	101	BCL	C6-C5-C3	-2.34	107.33	113.45
16	Z	102	CRT	C8-C7-C9	-2.34	119.65	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	P	103	CRT	C11-C12-C14	2.33	122.52	118.94
11	a	101	BCL	CED-O2D-CGD	2.33	121.21	115.94
11	j	102	BCL	CAA-C2A-C3A	-2.33	106.40	112.78
11	R	101	BCL	C1-C2-C3	-2.33	122.02	126.04
16	Z	102	CRT	C11-C12-C14	2.33	122.51	118.94
16	N	103	CRT	C11-C12-C14	2.33	122.51	118.94
16	j	101	CRT	C21-C20-C19	2.33	128.24	123.47
9	M	408	PGV	C02-O01-C1	-2.32	112.07	117.79
11	d	101	BCL	C6-C5-C3	-2.32	107.36	113.45
16	i	102	CRT	C5-C6-C7	2.32	129.40	125.89
11	g	101	BCL	CHB-C4A-NA	2.32	127.72	124.51
11	P	102	BCL	C6-C5-C3	-2.32	107.38	113.45
16	U	102	CRT	C31-C32-C33	2.32	130.62	127.31
11	X	102	BCL	C1D-CHD-C4C	-2.31	121.04	126.62
11	Z	101	BCL	CHC-C1C-NC	2.31	127.71	124.51
11	V	101	BCL	CAA-C2A-C3A	-2.31	106.45	112.78
9	M	408	PGV	O14-P-O13	2.31	119.73	110.68
11	D	101	BCL	CMB-C2B-C1B	-2.31	124.91	128.46
11	K	101	BCL	CHC-C1C-NC	2.31	127.70	124.51
11	G	102	BCL	C1D-CHD-C4C	-2.31	121.06	126.62
16	I	102	CRT	C21-C20-C19	2.30	128.19	123.47
11	b	102	BCL	C4B-CHC-C1C	-2.30	125.56	130.12
11	A	101	BCL	O2A-CGA-CBA	2.30	119.12	111.91
16	E	103	CRT	C31-C32-C33	2.30	130.59	127.31
11	e	101	BCL	O2D-CGD-O1D	-2.30	119.35	123.84
11	P	101	BCL	CHB-C4A-NA	2.30	127.69	124.51
16	W	102	CRT	C31-C32-C33	2.29	130.59	127.31
11	M	403	BCL	C4-C3-C5	2.29	119.13	115.27
11	b	101	BCL	C11-C10-C8	-2.29	108.51	115.92
11	J	102	BCL	C1-C2-C3	-2.29	122.08	126.04
11	d	102	BCL	C1D-CHD-C4C	-2.29	121.10	126.62
11	F	101	BCL	C1C-NC-C4C	-2.29	105.68	106.71
16	K	102	CRT	C16-C17-C19	2.29	122.45	118.94
11	N	101	BCL	O2A-CGA-CBA	2.29	119.08	111.91
16	U	102	CRT	C11-C12-C14	2.28	122.44	118.94
11	U	101	BCL	CAC-C3C-C4C	-2.28	107.52	112.58
11	L	401	BCL	CMB-C2B-C1B	-2.28	124.96	128.46
11	B	101	BCL	C4-C3-C5	2.28	119.10	115.27
11	f	102	BCL	O2A-CGA-CBA	2.28	119.06	111.91
11	A	101	BCL	C6-C5-C3	-2.28	107.48	113.45
11	X	102	BCL	C1D-ND-C4D	-2.28	104.72	106.33
11	N	102	BCL	CAA-C2A-C3A	-2.27	106.55	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	R	103	CRT	C31-C32-C33	2.27	130.55	127.31
11	h	102	BCL	C3D-C4D-ND	2.27	113.91	110.24
16	W	102	CRT	C21-C20-C19	2.27	128.12	123.47
16	M	406	CRT	C20-C19-C17	2.27	130.54	127.31
16	i	102	CRT	C11-C12-C14	2.27	122.42	118.94
11	e	101	BCL	C6-C5-C3	-2.27	107.51	113.45
11	S	101	BCL	C2A-C3A-C4A	-2.26	98.21	101.87
11	E	101	BCL	CHB-C4A-NA	2.26	127.64	124.51
16	M	406	CRT	C25-C23-C22	2.26	122.41	118.94
16	j	101	CRT	C31-C32-C33	2.26	130.54	127.31
11	f	102	BCL	CMD-C2D-C3D	-2.26	122.42	127.61
16	Y	102	CRT	C36-C35-C33	2.26	129.31	125.89
11	P	102	BCL	C1-C2-C3	-2.26	122.14	126.04
16	I	102	CRT	C31-C32-C33	2.26	130.53	127.31
11	M	402	BCL	CHB-C4A-NA	2.26	127.63	124.51
11	X	102	BCL	C11-C10-C8	-2.25	108.63	115.92
11	A	102	BCL	CMD-C2D-C3D	-2.25	122.44	127.61
11	G	101	BCL	C7-C6-C5	-2.24	107.26	113.36
16	Y	102	CRT	C31-C32-C33	2.24	130.50	127.31
11	L	401	BCL	CHD-C1D-C2D	2.23	130.16	125.48
11	O	101	BCL	C4-C3-C5	2.23	119.03	115.27
11	F	101	BCL	CHC-C1C-NC	2.23	127.60	124.51
11	E	102	BCL	C1D-CHD-C4C	-2.23	121.24	126.62
7	C	502	HEC	C1D-C2D-C3D	-2.23	105.44	107.00
11	d	102	BCL	C4B-CHC-C1C	-2.23	125.70	130.12
11	U	101	BCL	CHB-C4A-NA	2.23	127.59	124.51
16	a	102	CRT	C30-C28-C27	2.23	122.36	118.94
11	P	102	BCL	CHB-C4A-NA	2.23	127.59	124.51
11	T	102	BCL	C11-C10-C8	-2.23	108.73	115.92
11	T	102	BCL	CMD-C2D-C3D	-2.22	122.50	127.61
16	M	406	CRT	C30-C28-C27	2.22	122.35	118.94
11	G	102	BCL	CMD-C2D-C3D	-2.22	122.51	127.61
11	M	402	BCL	C1D-CHD-C4C	-2.22	121.27	126.62
11	L	401	BCL	C4B-CHC-C1C	-2.22	125.73	130.12
11	D	101	BCL	CHC-C1C-NC	2.21	127.56	124.51
11	F	101	BCL	O2D-CGD-O1D	-2.21	119.52	123.84
7	C	501	HEC	C1D-C2D-C3D	-2.21	105.46	107.00
11	Z	101	BCL	C1-O2A-CGA	2.20	122.22	116.44
11	W	101	BCL	C4D-CHA-C1A	-2.20	118.57	121.25
11	V	102	BCL	C1-C2-C3	-2.20	122.24	126.04
16	a	102	CRT	C6-C7-C9	2.20	122.31	118.94
11	M	403	BCL	CMB-C2B-C1B	-2.20	125.09	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	R	101	BCL	CED-O2D-CGD	2.19	120.90	115.94
16	j	101	CRT	C16-C17-C19	2.19	122.31	118.94
11	D	101	BCL	C4-C3-C5	2.19	118.96	115.27
11	F	101	BCL	C4D-CHA-C1A	-2.19	118.58	121.25
11	Y	101	BCL	C2A-C3A-C4A	-2.19	98.33	101.87
11	a	101	BCL	CHB-C4A-NA	2.19	127.54	124.51
11	d	102	BCL	C1-C2-C3	-2.18	122.27	126.04
11	T	102	BCL	C6-C5-C3	-2.18	107.73	113.45
11	A	102	BCL	CAC-C3C-C4C	-2.18	107.74	112.58
16	a	102	CRT	C21-C20-C19	2.18	127.94	123.47
16	E	103	CRT	C21-C20-C19	2.18	127.94	123.47
11	X	101	BCL	C4-C3-C5	2.18	118.94	115.27
16	I	102	CRT	C16-C17-C19	2.18	122.28	118.94
11	L	402	BCL	C1-O2A-CGA	2.18	122.16	116.44
11	S	101	BCL	C4D-CHA-C1A	-2.18	118.60	121.25
11	F	101	BCL	C6-C5-C3	-2.17	107.76	113.45
9	H	301	PGV	O03-C19-O04	-2.17	118.11	123.59
11	Y	101	BCL	C11-C12-C13	-2.17	108.90	115.92
11	g	101	BCL	CBA-CAA-C2A	-2.17	107.46	113.86
11	V	101	BCL	CAC-C3C-C4C	-2.17	107.78	112.58
11	X	102	BCL	CMD-C2D-C3D	-2.17	122.63	127.61
11	K	101	BCL	CHB-C4A-NA	2.16	127.50	124.51
11	R	101	BCL	CHC-C1C-NC	2.16	127.50	124.51
11	Y	101	BCL	O2A-CGA-O1A	-2.16	118.14	123.59
16	N	103	CRT	C16-C17-C19	2.16	122.25	118.94
16	R	103	CRT	C16-C17-C19	2.16	122.25	118.94
11	J	102	BCL	CMD-C2D-C3D	-2.16	122.65	127.61
11	R	102	BCL	CMD-C2D-C3D	-2.16	122.66	127.61
16	E	103	CRT	C16-C17-C19	2.15	122.25	118.94
11	X	101	BCL	CED-O2D-CGD	2.15	120.81	115.94
11	Z	101	BCL	CAA-C2A-C3A	-2.15	106.88	112.78
11	T	101	BCL	C1-O2A-CGA	2.15	122.09	116.44
11	A	102	BCL	C4B-CHC-C1C	-2.15	125.86	130.12
11	Y	101	BCL	C6-C5-C3	-2.15	107.82	113.45
16	N	103	CRT	C31-C32-C33	2.15	130.38	127.31
11	J	102	BCL	C4B-CHC-C1C	-2.15	125.86	130.12
16	A	103	CRT	C36-C35-C33	2.15	129.14	125.89
11	V	101	BCL	C6-C5-C3	-2.15	107.83	113.45
11	X	101	BCL	C6-C5-C3	-2.15	107.83	113.45
11	J	101	BCL	CAA-C2A-C3A	-2.15	106.90	112.78
11	S	101	BCL	C1-C2-C3	-2.15	122.33	126.04
9	M	407	PGV	O14-P-O13	2.14	119.07	110.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	N	101	BCL	CHB-C4A-NA	2.14	127.47	124.51
16	R	103	CRT	C21-C20-C19	2.14	127.86	123.47
11	i	101	BCL	CHC-C1C-NC	2.14	127.47	124.51
11	B	101	BCL	CHB-C4A-NA	2.14	127.47	124.51
16	e	102	CRT	C21-C20-C19	2.14	127.85	123.47
16	P	103	CRT	C16-C17-C19	2.13	122.21	118.94
11	S	101	BCL	CED-O2D-CGD	2.13	120.76	115.94
11	c	101	BCL	CHB-C4A-NA	2.13	127.46	124.51
11	J	101	BCL	CHC-C1C-NC	2.13	127.45	124.51
11	O	101	BCL	CHB-C4A-NA	2.13	127.45	124.51
11	G	102	BCL	C4B-CHC-C1C	-2.13	125.90	130.12
11	d	101	BCL	CAA-CBA-CGA	-2.12	107.05	113.25
11	Z	101	BCL	C1-C2-C3	-2.12	122.38	126.04
16	Y	102	CRT	C30-C28-C27	2.12	122.19	118.94
11	V	102	BCL	C11-C10-C8	-2.12	109.07	115.92
11	b	102	BCL	CAA-CBA-CGA	-2.12	107.07	113.25
11	B	101	BCL	C6-C5-C3	-2.12	107.91	113.45
11	f	101	BCL	O2A-CGA-CBA	2.12	118.55	111.91
11	K	101	BCL	C1-C2-C3	-2.12	122.38	126.04
11	U	101	BCL	CBA-CAA-C2A	-2.12	107.62	113.86
11	j	102	BCL	C1-C2-C3	-2.11	122.39	126.04
11	V	102	BCL	C4B-CHC-C1C	-2.11	125.93	130.12
11	d	102	BCL	O2A-CGA-CBA	2.11	118.53	111.91
11	Q	101	BCL	C16-C17-C18	-2.11	106.04	115.98
11	Q	101	BCL	C11-C12-C13	-2.11	109.10	115.92
11	P	101	BCL	CBA-CAA-C2A	-2.11	107.64	113.86
11	d	102	BCL	CED-O2D-CGD	2.10	120.69	115.94
11	O	101	BCL	C4A-NA-C1A	2.10	107.65	106.71
11	i	101	BCL	C4A-NA-C1A	2.10	107.65	106.71
11	E	101	BCL	CHC-C1C-NC	2.09	127.41	124.51
11	f	102	BCL	C6-C5-C3	-2.09	107.96	113.45
7	C	501	HEC	CBD-CAD-C3D	-2.09	109.05	112.62
16	a	102	CRT	C11-C12-C14	2.09	122.15	118.94
16	P	103	CRT	C31-C32-C33	2.09	130.29	127.31
11	L	402	BCL	C1C-NC-C4C	-2.09	105.77	106.71
7	C	503	HEC	CAA-CBA-CGA	-2.09	107.90	113.76
11	P	102	BCL	CMD-C2D-C3D	-2.09	122.81	127.61
11	T	101	BCL	C4-C3-C5	2.09	118.78	115.27
9	M	408	PGV	O03-C19-O04	-2.08	118.33	123.59
11	A	101	BCL	OBD-CAD-C3D	-2.08	123.51	128.52
9	M	407	PGV	C02-O01-C1	-2.08	112.67	117.79
11	h	101	BCL	CAC-C3C-C4C	-2.08	107.97	112.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	f	101	BCL	CHB-C4A-NA	2.08	127.38	124.51
11	N	101	BCL	C3A-C2A-C1A	2.08	104.45	101.34
16	i	102	CRT	C31-C32-C33	2.08	130.27	127.31
11	M	403	BCL	C6-C5-C3	-2.08	108.01	113.45
11	L	402	BCL	CMC-C2C-C3C	-2.08	105.46	113.83
11	V	102	BCL	CED-O2D-CGD	2.07	120.63	115.94
11	E	102	BCL	CMD-C2D-C3D	-2.07	122.84	127.61
11	X	102	BCL	C1C-NC-C4C	-2.07	105.77	106.71
11	Y	101	BCL	C4A-NA-C1A	2.07	107.64	106.71
11	A	101	BCL	CAC-C3C-C4C	-2.07	107.99	112.58
11	E	101	BCL	OBD-CAD-C3D	-2.06	123.56	128.52
11	Q	101	BCL	C6-C5-C3	-2.06	108.05	113.45
11	T	102	BCL	C4B-CHC-C1C	-2.06	126.04	130.12
11	S	101	BCL	C6-C5-C3	-2.06	108.06	113.45
11	K	101	BCL	CAC-C3C-C4C	-2.06	108.02	112.58
11	M	403	BCL	CHB-C4A-NA	2.06	127.36	124.51
16	U	102	CRT	C16-C17-C19	2.06	122.09	118.94
11	O	101	BCL	CBA-CAA-C2A	-2.06	107.80	113.86
16	A	103	CRT	C16-C17-C19	2.05	122.09	118.94
13	L	408	LMT	C1-O1'-C1'	-2.05	110.44	113.84
11	N	102	BCL	CED-O2D-CGD	2.05	120.58	115.94
16	E	103	CRT	C36-C35-C33	2.05	128.99	125.89
11	S	101	BCL	C4-C3-C5	2.05	118.72	115.27
16	i	102	CRT	C16-C17-C19	2.05	122.09	118.94
11	D	101	BCL	C11-C12-C13	-2.05	109.29	115.92
11	A	101	BCL	C11-C10-C8	-2.05	109.30	115.92
9	Z	103	PGV	O01-C1-O02	-2.05	118.75	123.70
16	e	102	CRT	C16-C17-C19	2.05	122.08	118.94
11	A	102	BCL	C11-C10-C8	-2.04	109.31	115.92
11	d	101	BCL	C2A-C3A-C4A	-2.04	98.57	101.87
11	W	101	BCL	CBA-CAA-C2A	-2.04	107.83	113.86
11	W	101	BCL	CMB-C2B-C1B	-2.04	125.33	128.46
11	X	101	BCL	CAA-CBA-CGA	-2.04	107.29	113.25
16	a	102	CRT	C16-C17-C19	2.04	122.06	118.94
11	Y	101	BCL	C5-C3-C2	-2.03	117.00	121.12
11	d	101	BCL	CAC-C3C-C4C	-2.03	108.07	112.58
11	a	101	BCL	CHC-C1C-NC	2.03	127.32	124.51
11	R	102	BCL	C4B-CHC-C1C	-2.03	126.10	130.12
11	J	102	BCL	CED-O2D-CGD	2.03	120.53	115.94
11	Y	101	BCL	CHB-C4A-NA	2.03	127.32	124.51
11	b	101	BCL	C6-C5-C3	-2.03	108.14	113.45
11	G	102	BCL	C11-C12-C13	-2.03	109.37	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	M	404	BPH	CMB-C2B-C3B	2.03	128.47	124.68
11	G	101	BCL	CHC-C1C-NC	2.02	127.31	124.51
11	j	103	BCL	C6-C5-C3	-2.02	108.16	113.45
11	J	102	BCL	C11-C12-C13	-2.02	109.39	115.92
11	Z	101	BCL	C2A-C3A-C4A	-2.02	98.61	101.87
11	d	101	BCL	C11-C10-C8	-2.02	109.39	115.92
16	B	102	CRT	C16-C17-C19	2.02	122.04	118.94
11	R	102	BCL	C1-O2A-CGA	2.02	121.74	116.44
11	f	102	BCL	C1-O2A-CGA	2.02	121.74	116.44
11	B	101	BCL	C11-C12-C13	-2.02	109.40	115.92
16	Z	102	CRT	C32-C31-C30	2.02	129.51	123.22
11	D	101	BCL	CAA-C2A-C3A	-2.01	107.26	112.78
16	W	102	CRT	C16-C17-C19	2.01	122.03	118.94
11	f	101	BCL	CAC-C3C-C4C	-2.01	108.12	112.58
11	B	101	BCL	C16-C17-C18	-2.01	106.51	115.98
16	U	102	CRT	C21-C20-C19	2.01	127.59	123.47
11	J	101	BCL	CED-O2D-CGD	2.01	120.47	115.94
16	B	102	CRT	C31-C32-C33	2.01	130.17	127.31
11	L	402	BCL	CMD-C2D-C3D	-2.00	123.00	127.61
11	N	102	BCL	OBB-CAB-C3B	-2.00	116.44	119.99
11	A	102	BCL	CHD-C1D-C2D	2.00	129.68	125.48
11	I	101	BCL	CED-O2D-CGD	2.00	120.46	115.94
11	X	102	BCL	CHD-C1D-C2D	2.00	129.68	125.48

There are no chirality outliers.

All (1139) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
9	L	410	PGV	C01-C02-C03-O11
9	L	410	PGV	O01-C02-C03-O11
9	M	407	PGV	C03-O11-P-O12
9	M	407	PGV	C03-O11-P-O14
9	H	301	PGV	C03-O11-P-O14
9	H	301	PGV	C04-O12-P-O11
9	H	301	PGV	C04-O12-P-O13
9	H	301	PGV	C04-O12-P-O14
9	Z	103	PGV	C04-O12-P-O13
9	Z	103	PGV	C04-O12-P-O14
9	Z	103	PGV	C2-C1-O01-C02
11	L	401	BCL	C4C-C3C-CAC-CBC
11	M	402	BCL	C1A-C2A-CAA-CBA
11	M	402	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
11	M	403	BCL	CHA-CBD-CGD-O1D
11	M	403	BCL	CHA-CBD-CGD-O2D
11	M	403	BCL	CAD-CBD-CGD-O1D
11	M	403	BCL	CAD-CBD-CGD-O2D
11	A	101	BCL	C2C-C3C-CAC-CBC
11	A	101	BCL	C4C-C3C-CAC-CBC
11	A	101	BCL	C4-C3-C5-C6
11	A	102	BCL	C1A-C2A-CAA-CBA
11	A	102	BCL	C3A-C2A-CAA-CBA
11	A	102	BCL	CBA-CGA-O2A-C1
11	A	102	BCL	O1A-CGA-O2A-C1
11	A	102	BCL	C2C-C3C-CAC-CBC
11	A	102	BCL	C4C-C3C-CAC-CBC
11	D	101	BCL	C1A-C2A-CAA-CBA
11	D	101	BCL	C3A-C2A-CAA-CBA
11	E	101	BCL	C1A-C2A-CAA-CBA
11	E	101	BCL	C3A-C2A-CAA-CBA
11	E	101	BCL	C4C-C3C-CAC-CBC
11	E	102	BCL	C1A-C2A-CAA-CBA
11	E	102	BCL	C3A-C2A-CAA-CBA
11	E	102	BCL	CBA-CGA-O2A-C1
11	E	102	BCL	O1A-CGA-O2A-C1
11	F	101	BCL	C1A-C2A-CAA-CBA
11	F	101	BCL	C3A-C2A-CAA-CBA
11	F	101	BCL	C2C-C3C-CAC-CBC
11	F	101	BCL	C4C-C3C-CAC-CBC
11	G	101	BCL	C1A-C2A-CAA-CBA
11	G	101	BCL	C2C-C3C-CAC-CBC
11	G	101	BCL	C4C-C3C-CAC-CBC
11	G	101	BCL	CHA-CBD-CGD-O1D
11	G	101	BCL	CHA-CBD-CGD-O2D
11	G	101	BCL	C14-C13-C15-C16
11	G	102	BCL	C3A-C2A-CAA-CBA
11	G	102	BCL	C2A-CAA-CBA-CGA
11	G	102	BCL	C2C-C3C-CAC-CBC
11	J	101	BCL	C1A-C2A-CAA-CBA
11	J	101	BCL	C2C-C3C-CAC-CBC
11	J	101	BCL	C4C-C3C-CAC-CBC
11	J	101	BCL	CHA-CBD-CGD-O1D
11	J	101	BCL	CHA-CBD-CGD-O2D
11	J	101	BCL	C2-C3-C5-C6
11	J	101	BCL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
11	J	101	BCL	C14-C13-C15-C16
11	J	102	BCL	C3A-C2A-CAA-CBA
11	K	101	BCL	C1A-C2A-CAA-CBA
11	K	101	BCL	C3A-C2A-CAA-CBA
11	N	101	BCL	C3A-C2A-CAA-CBA
11	N	101	BCL	C2C-C3C-CAC-CBC
11	N	101	BCL	C4C-C3C-CAC-CBC
11	N	102	BCL	C2A-CAA-CBA-CGA
11	N	102	BCL	CBD-CGD-O2D-CED
11	O	101	BCL	C2C-C3C-CAC-CBC
11	O	101	BCL	C4C-C3C-CAC-CBC
11	P	101	BCL	C1A-C2A-CAA-CBA
11	P	101	BCL	C2C-C3C-CAC-CBC
11	P	101	BCL	C4C-C3C-CAC-CBC
11	P	101	BCL	CHA-CBD-CGD-O1D
11	P	101	BCL	CHA-CBD-CGD-O2D
11	P	102	BCL	C3A-C2A-CAA-CBA
11	P	102	BCL	CBA-CGA-O2A-C1
11	P	102	BCL	O1A-CGA-O2A-C1
11	Q	101	BCL	C1A-C2A-CAA-CBA
11	Q	101	BCL	C3A-C2A-CAA-CBA
11	Q	101	BCL	C2C-C3C-CAC-CBC
11	Q	101	BCL	C4C-C3C-CAC-CBC
11	R	101	BCL	C3A-C2A-CAA-CBA
11	R	101	BCL	C2C-C3C-CAC-CBC
11	R	101	BCL	C4C-C3C-CAC-CBC
11	R	101	BCL	CHA-CBD-CGD-O1D
11	R	101	BCL	CHA-CBD-CGD-O2D
11	R	102	BCL	C3A-C2A-CAA-CBA
11	R	102	BCL	C2A-CAA-CBA-CGA
11	R	102	BCL	C4C-C3C-CAC-CBC
11	S	101	BCL	C1A-C2A-CAA-CBA
11	T	101	BCL	C2C-C3C-CAC-CBC
11	T	101	BCL	C4C-C3C-CAC-CBC
11	T	101	BCL	CHA-CBD-CGD-O1D
11	T	102	BCL	C3A-C2A-CAA-CBA
11	T	102	BCL	C2A-CAA-CBA-CGA
11	T	102	BCL	CBA-CGA-O2A-C1
11	T	102	BCL	O1A-CGA-O2A-C1
11	T	102	BCL	CBD-CGD-O2D-CED
11	U	101	BCL	C1A-C2A-CAA-CBA
11	U	101	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
11	U	101	BCL	C6-C7-C8-C10
11	V	101	BCL	C1A-C2A-CAA-CBA
11	V	101	BCL	C4C-C3C-CAC-CBC
11	V	101	BCL	C4-C3-C5-C6
11	V	102	BCL	C3A-C2A-CAA-CBA
11	V	102	BCL	CBA-CGA-O2A-C1
11	V	102	BCL	O1A-CGA-O2A-C1
11	V	102	BCL	CBD-CGD-O2D-CED
11	W	101	BCL	C2C-C3C-CAC-CBC
11	W	101	BCL	C4C-C3C-CAC-CBC
11	X	101	BCL	C1A-C2A-CAA-CBA
11	X	101	BCL	C3A-C2A-CAA-CBA
11	X	101	BCL	C2C-C3C-CAC-CBC
11	X	101	BCL	C4C-C3C-CAC-CBC
11	X	101	BCL	C11-C12-C13-C15
11	X	102	BCL	C1A-C2A-CAA-CBA
11	X	102	BCL	C3A-C2A-CAA-CBA
11	X	102	BCL	CBA-CGA-O2A-C1
11	X	102	BCL	O1A-CGA-O2A-C1
11	Y	101	BCL	C1A-C2A-CAA-CBA
11	Y	101	BCL	C2C-C3C-CAC-CBC
11	Y	101	BCL	C4C-C3C-CAC-CBC
11	Z	101	BCL	C1A-C2A-CAA-CBA
11	Z	101	BCL	C2C-C3C-CAC-CBC
11	Z	101	BCL	C4C-C3C-CAC-CBC
11	a	101	BCL	C1A-C2A-CAA-CBA
11	a	101	BCL	C3A-C2A-CAA-CBA
11	a	101	BCL	C2C-C3C-CAC-CBC
11	a	101	BCL	C4C-C3C-CAC-CBC
11	b	101	BCL	C1A-C2A-CAA-CBA
11	b	102	BCL	C1A-C2A-CAA-CBA
11	b	102	BCL	C3A-C2A-CAA-CBA
11	b	102	BCL	CBA-CGA-O2A-C1
11	b	102	BCL	O1A-CGA-O2A-C1
11	c	101	BCL	C1A-C2A-CAA-CBA
11	c	101	BCL	C3A-C2A-CAA-CBA
11	c	101	BCL	C2C-C3C-CAC-CBC
11	c	101	BCL	C4C-C3C-CAC-CBC
11	d	101	BCL	C1A-C2A-CAA-CBA
11	d	101	BCL	C2C-C3C-CAC-CBC
11	d	101	BCL	C4C-C3C-CAC-CBC
11	d	102	BCL	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
11	d	102	BCL	C3A-C2A-CAA-CBA
11	d	102	BCL	CBA-CGA-O2A-C1
11	d	102	BCL	O1A-CGA-O2A-C1
11	e	101	BCL	C1A-C2A-CAA-CBA
11	e	101	BCL	C2C-C3C-CAC-CBC
11	e	101	BCL	C4C-C3C-CAC-CBC
11	f	101	BCL	C1A-C2A-CAA-CBA
11	f	101	BCL	C3A-C2A-CAA-CBA
11	f	101	BCL	C2C-C3C-CAC-CBC
11	f	101	BCL	C4C-C3C-CAC-CBC
11	f	101	BCL	C2-C3-C5-C6
11	f	101	BCL	C4-C3-C5-C6
11	f	102	BCL	C3A-C2A-CAA-CBA
11	g	101	BCL	C1A-C2A-CAA-CBA
11	g	101	BCL	C3A-C2A-CAA-CBA
11	g	101	BCL	C2C-C3C-CAC-CBC
11	g	101	BCL	C4C-C3C-CAC-CBC
11	h	101	BCL	C1A-C2A-CAA-CBA
11	h	101	BCL	C2C-C3C-CAC-CBC
11	h	101	BCL	C4C-C3C-CAC-CBC
11	h	101	BCL	C2-C3-C5-C6
11	h	101	BCL	C4-C3-C5-C6
11	h	102	BCL	C1A-C2A-CAA-CBA
11	h	102	BCL	C3A-C2A-CAA-CBA
11	h	102	BCL	CBA-CGA-O2A-C1
11	h	102	BCL	O1A-CGA-O2A-C1
11	h	102	BCL	CBD-CGD-O2D-CED
11	j	102	BCL	C2C-C3C-CAC-CBC
11	j	102	BCL	C4C-C3C-CAC-CBC
11	j	102	BCL	C2-C3-C5-C6
11	j	102	BCL	C4-C3-C5-C6
11	j	103	BCL	C3A-C2A-CAA-CBA
11	j	103	BCL	CBA-CGA-O2A-C1
11	j	103	BCL	O1A-CGA-O2A-C1
11	j	103	BCL	CBD-CGD-O2D-CED
15	M	405	MQ8	C19-C18-C20-C21
16	B	102	CRT	C1-C4-C5-C6
16	B	102	CRT	C4-C5-C6-C7
16	B	102	CRT	C5-C6-C7-C8
16	B	102	CRT	C5-C6-C7-C9
16	A	103	CRT	C1-C4-C5-C6
16	A	103	CRT	C4-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
16	A	103	CRT	C5-C6-C7-C8
16	A	103	CRT	C5-C6-C7-C9
16	E	103	CRT	C4-C5-C6-C7
16	I	102	CRT	C4-C5-C6-C7
16	N	103	CRT	C1-C4-C5-C6
16	N	103	CRT	C4-C5-C6-C7
16	N	103	CRT	C5-C6-C7-C8
16	N	103	CRT	C5-C6-C7-C9
16	P	103	CRT	C1-C4-C5-C6
16	P	103	CRT	C4-C5-C6-C7
16	P	103	CRT	C5-C6-C7-C8
16	P	103	CRT	C5-C6-C7-C9
16	R	103	CRT	C1-C4-C5-C6
16	R	103	CRT	C4-C5-C6-C7
16	U	102	CRT	C1-C4-C5-C6
16	U	102	CRT	C4-C5-C6-C7
16	U	102	CRT	C5-C6-C7-C8
16	U	102	CRT	C5-C6-C7-C9
16	W	102	CRT	O1-C1-C4-C5
16	W	102	CRT	C1-C4-C5-C6
16	W	102	CRT	C4-C5-C6-C7
16	Z	102	CRT	C1-C4-C5-C6
16	Z	102	CRT	C10-C11-C12-C13
16	Z	102	CRT	C32-C33-C35-C36
16	Z	102	CRT	C34-C33-C35-C36
16	Z	102	CRT	C35-C36-C37-C38
16	a	102	CRT	C35-C36-C37-C38
16	e	102	CRT	C1-C4-C5-C6
16	e	102	CRT	C4-C5-C6-C7
16	e	102	CRT	C5-C6-C7-C8
16	e	102	CRT	C5-C6-C7-C9
16	i	102	CRT	C1-C4-C5-C6
16	i	102	CRT	C4-C5-C6-C7
16	i	102	CRT	C5-C6-C7-C8
16	i	102	CRT	C5-C6-C7-C9
16	j	101	CRT	C1-C4-C5-C6
16	j	101	CRT	C4-C5-C6-C7
16	j	101	CRT	C5-C6-C7-C8
16	j	101	CRT	C5-C6-C7-C9
11	E	102	BCL	O1D-CGD-O2D-CED
11	E	102	BCL	CBD-CGD-O2D-CED
11	G	102	BCL	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
11	J	102	BCL	CBD-CGD-O2D-CED
11	P	102	BCL	CBD-CGD-O2D-CED
11	U	101	BCL	CBD-CGD-O2D-CED
11	X	102	BCL	CBD-CGD-O2D-CED
11	b	102	BCL	CBD-CGD-O2D-CED
11	d	102	BCL	CBD-CGD-O2D-CED
11	i	101	BCL	CBD-CGD-O2D-CED
11	P	102	BCL	O1D-CGD-O2D-CED
11	b	102	BCL	O1D-CGD-O2D-CED
11	T	102	BCL	O1D-CGD-O2D-CED
11	h	102	BCL	O1D-CGD-O2D-CED
11	j	103	BCL	O1D-CGD-O2D-CED
11	D	101	BCL	CBD-CGD-O2D-CED
11	R	102	BCL	CBD-CGD-O2D-CED
11	V	101	BCL	CBD-CGD-O2D-CED
11	d	101	BCL	CBD-CGD-O2D-CED
11	f	101	BCL	CBD-CGD-O2D-CED
11	f	102	BCL	CBD-CGD-O2D-CED
11	V	102	BCL	O1D-CGD-O2D-CED
11	N	102	BCL	O1D-CGD-O2D-CED
11	L	401	BCL	C13-C15-C16-C17
9	Z	103	PGV	O02-C1-O01-C02
11	G	101	BCL	C3-C5-C6-C7
11	N	102	BCL	C3-C5-C6-C7
11	R	101	BCL	C3-C5-C6-C7
11	X	101	BCL	C3-C5-C6-C7
11	Z	101	BCL	C3-C5-C6-C7
11	d	102	BCL	C3-C5-C6-C7
11	f	101	BCL	C3-C5-C6-C7
11	X	102	BCL	O1D-CGD-O2D-CED
11	A	101	BCL	C2-C3-C5-C6
15	M	405	MQ8	C17-C18-C20-C21
11	E	102	BCL	C2A-CAA-CBA-CGA
11	J	102	BCL	C2A-CAA-CBA-CGA
11	T	101	BCL	C2A-CAA-CBA-CGA
11	V	101	BCL	C2A-CAA-CBA-CGA
11	X	101	BCL	C2A-CAA-CBA-CGA
11	X	102	BCL	C2A-CAA-CBA-CGA
11	Z	101	BCL	C2A-CAA-CBA-CGA
11	b	102	BCL	C2A-CAA-CBA-CGA
11	h	101	BCL	C2A-CAA-CBA-CGA
11	h	102	BCL	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
11	j	102	BCL	C2A-CAA-CBA-CGA
11	j	103	BCL	C2A-CAA-CBA-CGA
11	A	101	BCL	C3-C5-C6-C7
11	E	102	BCL	C3-C5-C6-C7
11	X	102	BCL	C3-C5-C6-C7
11	b	102	BCL	C3-C5-C6-C7
11	f	102	BCL	C3-C5-C6-C7
11	M	402	BCL	CBA-CGA-O2A-C1
11	Y	101	BCL	CBD-CGD-O2D-CED
11	G	102	BCL	O1D-CGD-O2D-CED
11	i	101	BCL	O1D-CGD-O2D-CED
11	d	102	BCL	O1D-CGD-O2D-CED
16	Z	102	CRT	C11-C10-C9-C7
11	A	102	BCL	CBD-CGD-O2D-CED
11	W	101	BCL	CBD-CGD-O2D-CED
11	P	101	BCL	C3-C5-C6-C7
11	T	102	BCL	C3-C5-C6-C7
9	H	301	PGV	C20-C19-O03-C01
11	G	102	BCL	CBA-CGA-O2A-C1
11	X	101	BCL	CBD-CGD-O2D-CED
11	J	102	BCL	O1D-CGD-O2D-CED
11	U	101	BCL	O1D-CGD-O2D-CED
11	J	101	BCL	C3-C5-C6-C7
11	E	101	BCL	C4-C3-C5-C6
11	G	101	BCL	C4-C3-C5-C6
11	N	101	BCL	C4-C3-C5-C6
11	P	101	BCL	C4-C3-C5-C6
11	R	101	BCL	C4-C3-C5-C6
11	T	101	BCL	C4-C3-C5-C6
11	X	101	BCL	C4-C3-C5-C6
11	Z	101	BCL	C4-C3-C5-C6
11	b	101	BCL	C4-C3-C5-C6
15	M	405	MQ8	C45-C43-C44-C46
11	E	101	BCL	C2-C3-C5-C6
11	G	101	BCL	C2-C3-C5-C6
11	N	101	BCL	C2-C3-C5-C6
11	P	101	BCL	C2-C3-C5-C6
11	R	101	BCL	C2-C3-C5-C6
11	T	101	BCL	C2-C3-C5-C6
11	V	101	BCL	C2-C3-C5-C6
11	X	101	BCL	C2-C3-C5-C6
11	Z	101	BCL	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
11	b	101	BCL	C2-C3-C5-C6
15	M	405	MQ8	C42-C43-C44-C46
11	A	101	BCL	C2A-CAA-CBA-CGA
11	E	101	BCL	C2A-CAA-CBA-CGA
11	J	101	BCL	C2A-CAA-CBA-CGA
11	R	101	BCL	C2A-CAA-CBA-CGA
11	b	101	BCL	C2A-CAA-CBA-CGA
11	d	101	BCL	C2A-CAA-CBA-CGA
11	d	102	BCL	C2A-CAA-CBA-CGA
9	H	301	PGV	O04-C19-O03-C01
11	M	402	BCL	O1A-CGA-O2A-C1
15	M	405	MQ8	C13-C15-C16-C17
11	Q	101	BCL	CBA-CGA-O2A-C1
11	G	102	BCL	O1A-CGA-O2A-C1
11	J	102	BCL	CBA-CGA-O2A-C1
11	Y	101	BCL	CBA-CGA-O2A-C1
11	f	101	BCL	O1D-CGD-O2D-CED
11	Z	101	BCL	C13-C15-C16-C17
11	a	101	BCL	C5-C6-C7-C8
11	L	401	BCL	C15-C16-C17-C18
11	Y	101	BCL	C5-C6-C7-C8
11	b	102	BCL	C13-C15-C16-C17
11	e	101	BCL	C10-C11-C12-C13
11	J	102	BCL	O1A-CGA-O2A-C1
11	L	402	BCL	C14-C13-C15-C16
11	M	402	BCL	C11-C10-C8-C9
11	A	101	BCL	C14-C13-C15-C16
11	O	101	BCL	C11-C12-C13-C14
11	P	101	BCL	C14-C13-C15-C16
11	R	101	BCL	C14-C13-C15-C16
11	T	101	BCL	C11-C12-C13-C14
11	V	101	BCL	C11-C12-C13-C14
11	X	101	BCL	C14-C13-C15-C16
11	X	102	BCL	C14-C13-C15-C16
11	Z	101	BCL	C14-C13-C15-C16
11	c	101	BCL	C11-C12-C13-C14
11	d	101	BCL	C14-C13-C15-C16
11	j	102	BCL	C14-C13-C15-C16
12	M	404	BPH	C11-C10-C8-C9
11	d	101	BCL	O1D-CGD-O2D-CED
11	A	102	BCL	C2A-CAA-CBA-CGA
11	N	101	BCL	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
11	V	102	BCL	C2A-CAA-CBA-CGA
16	R	103	CRT	C5-C6-C7-C8
16	W	102	CRT	C5-C6-C7-C8
16	Y	102	CRT	C5-C6-C7-C8
16	a	102	CRT	C5-C6-C7-C8
16	a	102	CRT	C34-C33-C35-C36
16	R	103	CRT	C5-C6-C7-C9
16	W	102	CRT	C5-C6-C7-C9
16	Y	102	CRT	C5-C6-C7-C9
16	Z	102	CRT	C10-C11-C12-C14
11	Y	101	BCL	O1A-CGA-O2A-C1
11	F	101	BCL	C8-C10-C11-C12
11	R	101	BCL	C13-C15-C16-C17
11	V	101	BCL	O1D-CGD-O2D-CED
11	I	101	BCL	CBA-CGA-O2A-C1
11	a	101	BCL	CBA-CGA-O2A-C1
11	I	101	BCL	C5-C6-C7-C8
11	Y	101	BCL	C8-C10-C11-C12
11	a	101	BCL	C13-C15-C16-C17
11	b	102	BCL	C5-C6-C7-C8
11	c	101	BCL	C10-C11-C12-C13
11	R	102	BCL	O1D-CGD-O2D-CED
11	f	102	BCL	O1D-CGD-O2D-CED
11	M	402	BCL	C5-C6-C7-C8
11	E	101	BCL	C5-C6-C7-C8
11	F	101	BCL	C10-C11-C12-C13
11	F	101	BCL	C15-C16-C17-C18
11	N	101	BCL	C8-C10-C11-C12
11	N	101	BCL	C13-C15-C16-C17
11	O	101	BCL	C15-C16-C17-C18
11	P	101	BCL	C10-C11-C12-C13
11	Q	101	BCL	C8-C10-C11-C12
11	R	102	BCL	C8-C10-C11-C12
11	R	102	BCL	C15-C16-C17-C18
11	T	101	BCL	C5-C6-C7-C8
11	V	101	BCL	C5-C6-C7-C8
11	V	101	BCL	C8-C10-C11-C12
11	d	101	BCL	C13-C15-C16-C17
11	f	102	BCL	C8-C10-C11-C12
11	A	102	BCL	C8-C10-C11-C12
11	E	101	BCL	C10-C11-C12-C13
11	J	101	BCL	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
11	Q	101	BCL	C5-C6-C7-C8
11	T	102	BCL	C8-C10-C11-C12
11	V	101	BCL	C13-C15-C16-C17
11	b	101	BCL	C10-C11-C12-C13
11	d	102	BCL	C13-C15-C16-C17
11	R	102	BCL	CBA-CGA-O2A-C1
11	G	102	BCL	C2-C1-O2A-CGA
11	A	101	BCL	C10-C11-C12-C13
11	O	101	BCL	C10-C11-C12-C13
11	P	101	BCL	C5-C6-C7-C8
11	c	101	BCL	C15-C16-C17-C18
11	d	102	BCL	C15-C16-C17-C18
9	L	410	PGV	C1-C2-C3-C4
11	T	101	BCL	C15-C16-C17-C18
11	d	102	BCL	C5-C6-C7-C8
11	i	101	BCL	C5-C6-C7-C8
11	A	101	BCL	C11-C12-C13-C15
11	I	101	BCL	C6-C7-C8-C10
11	I	101	BCL	C11-C12-C13-C15
11	J	101	BCL	C11-C12-C13-C15
11	J	102	BCL	C6-C7-C8-C10
11	N	102	BCL	C6-C7-C8-C10
11	P	101	BCL	C11-C12-C13-C15
11	P	102	BCL	C6-C7-C8-C10
11	R	101	BCL	C11-C12-C13-C15
11	S	101	BCL	C6-C7-C8-C10
11	T	101	BCL	C11-C12-C13-C15
11	T	102	BCL	C6-C7-C8-C10
11	X	102	BCL	C6-C7-C8-C10
11	X	102	BCL	C11-C12-C13-C15
11	b	102	BCL	C6-C7-C8-C10
11	d	102	BCL	C6-C7-C8-C10
11	e	101	BCL	C11-C10-C8-C7
11	f	102	BCL	C6-C7-C8-C10
11	g	101	BCL	C12-C13-C15-C16
11	Q	101	BCL	O1A-CGA-O2A-C1
11	a	101	BCL	O1A-CGA-O2A-C1
11	G	101	BCL	C2A-CAA-CBA-CGA
11	P	102	BCL	C2A-CAA-CBA-CGA
11	D	101	BCL	O1D-CGD-O2D-CED
11	N	101	BCL	C5-C6-C7-C8
11	Z	101	BCL	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
11	j	103	BCL	C8-C10-C11-C12
11	I	101	BCL	O1A-CGA-O2A-C1
11	M	402	BCL	C10-C11-C12-C13
11	I	101	BCL	C13-C15-C16-C17
11	h	101	BCL	C3-C5-C6-C7
11	h	102	BCL	C3-C5-C6-C7
11	j	102	BCL	C3-C5-C6-C7
11	T	101	BCL	C8-C10-C11-C12
11	V	102	BCL	C13-C15-C16-C17
11	a	101	BCL	C8-C10-C11-C12
11	j	103	BCL	C15-C16-C17-C18
11	i	101	BCL	CBA-CGA-O2A-C1
11	L	402	BCL	C15-C16-C17-C18
11	D	101	BCL	C15-C16-C17-C18
11	G	102	BCL	C15-C16-C17-C18
11	P	102	BCL	C15-C16-C17-C18
11	T	101	BCL	C13-C15-C16-C17
11	X	102	BCL	C13-C15-C16-C17
11	d	102	BCL	C8-C10-C11-C12
11	f	102	BCL	C15-C16-C17-C18
11	h	101	BCL	C13-C15-C16-C17
11	A	101	BCL	C5-C6-C7-C8
11	S	101	BCL	C8-C10-C11-C12
11	V	101	BCL	C10-C11-C12-C13
11	h	102	BCL	C13-C15-C16-C17
11	i	101	BCL	C13-C15-C16-C17
9	C	508	PGV	C03-O11-P-O12
9	H	301	PGV	C03-O11-P-O12
9	R	104	PGV	C03-O11-P-O12
9	Z	103	PGV	C04-O12-P-O11
11	N	102	BCL	CBA-CGA-O2A-C1
11	P	101	BCL	CBA-CGA-O2A-C1
11	T	102	BCL	C15-C16-C17-C18
11	Y	101	BCL	C13-C15-C16-C17
11	h	101	BCL	C15-C16-C17-C18
11	T	101	BCL	C16-C17-C18-C19
11	T	102	BCL	C16-C17-C18-C19
11	a	101	BCL	C16-C17-C18-C20
11	B	101	BCL	CBA-CGA-O2A-C1
11	g	101	BCL	C8-C10-C11-C12
11	K	101	BCL	C13-C15-C16-C17
11	i	101	BCL	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
9	M	407	PGV	C21-C22-C23-C24
11	M	402	BCL	C13-C15-C16-C17
16	Z	102	CRT	C8-C7-C9-C10
9	R	104	PGV	C2-C3-C4-C5
9	R	104	PGV	C7-C8-C9-C10
11	B	101	BCL	O1A-CGA-O2A-C1
11	B	101	BCL	C16-C17-C18-C19
11	P	102	BCL	C16-C17-C18-C19
11	R	101	BCL	C16-C17-C18-C20
11	V	102	BCL	C16-C17-C18-C19
11	X	101	BCL	C16-C17-C18-C19
11	X	102	BCL	C16-C17-C18-C20
11	b	102	BCL	C16-C17-C18-C19
11	c	101	BCL	CBA-CGA-O2A-C1
9	H	301	PGV	C14-C15-C16-C17
9	R	104	PGV	C13-C14-C15-C16
9	R	104	PGV	C22-C23-C24-C25
11	W	101	BCL	O1D-CGD-O2D-CED
11	R	102	BCL	O1A-CGA-O2A-C1
10	j	104	8K6	C6-C7-C8-C9
11	K	101	BCL	CBA-CGA-O2A-C1
11	f	102	BCL	CBA-CGA-O2A-C1
11	b	101	BCL	C15-C16-C17-C18
11	P	101	BCL	O1A-CGA-O2A-C1
11	i	101	BCL	O1A-CGA-O2A-C1
11	I	101	BCL	C16-C17-C18-C20
11	d	102	BCL	C16-C17-C18-C19
11	i	101	BCL	C16-C17-C18-C20
11	f	102	BCL	C4-C3-C5-C6
12	L	403	BPH	C4-C3-C5-C6
11	L	401	BCL	C14-C13-C15-C16
11	E	101	BCL	C11-C10-C8-C9
11	K	101	BCL	C11-C12-C13-C14
11	P	102	BCL	C11-C12-C13-C14
11	X	101	BCL	C11-C12-C13-C14
11	e	101	BCL	C11-C10-C8-C9
11	Y	101	BCL	O1D-CGD-O2D-CED
11	b	101	BCL	CBD-CGD-O2D-CED
11	J	102	BCL	C15-C16-C17-C18
11	h	102	BCL	C15-C16-C17-C18
16	K	102	CRT	C5-C6-C7-C8
16	K	102	CRT	C5-C6-C7-C9

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Mol	Chain	Res	Type	Atoms
16	a	102	CRT	C5-C6-C7-C9
9	R	104	PGV	O02-C1-O01-C02
11	E	101	BCL	C15-C16-C17-C18
11	T	102	BCL	C13-C15-C16-C17
9	R	104	PGV	C2-C1-O01-C02
13	L	408	LMT	O5B-C5B-C6B-O6B
11	A	101	BCL	C16-C17-C18-C20
11	D	101	BCL	C16-C17-C18-C20
11	P	101	BCL	C16-C17-C18-C19
11	V	102	BCL	C16-C17-C18-C20
11	X	101	BCL	C16-C17-C18-C20
11	X	102	BCL	C16-C17-C18-C19
11	Y	101	BCL	C16-C17-C18-C19
11	Y	101	BCL	C16-C17-C18-C20
11	Z	101	BCL	C16-C17-C18-C19
11	Z	101	BCL	C16-C17-C18-C20
11	f	102	BCL	C16-C17-C18-C19
11	f	102	BCL	C16-C17-C18-C20
11	i	101	BCL	C16-C17-C18-C19
11	Z	101	BCL	CBD-CGD-O2D-CED
9	C	508	PGV	C4-C5-C6-C7
10	d	103	8K6	C7-C8-C9-C10
11	c	101	BCL	O1A-CGA-O2A-C1
11	A	102	BCL	O1D-CGD-O2D-CED
11	O	101	BCL	CBA-CGA-O2A-C1
9	H	302	PGV	C14-C15-C16-C17
7	C	502	HEC	C3D-CAD-CBD-CGD
11	B	101	BCL	C3A-C2A-CAA-CBA
11	A	101	BCL	C3A-C2A-CAA-CBA
11	G	101	BCL	C3A-C2A-CAA-CBA
11	I	101	BCL	C3A-C2A-CAA-CBA
11	J	101	BCL	C3A-C2A-CAA-CBA
11	O	101	BCL	C3A-C2A-CAA-CBA
11	P	101	BCL	C3A-C2A-CAA-CBA
11	S	101	BCL	C3A-C2A-CAA-CBA
11	T	101	BCL	C3A-C2A-CAA-CBA
11	V	101	BCL	C3A-C2A-CAA-CBA
11	W	101	BCL	C3A-C2A-CAA-CBA
11	Y	101	BCL	C3A-C2A-CAA-CBA
11	Z	101	BCL	C3A-C2A-CAA-CBA
11	b	101	BCL	C3A-C2A-CAA-CBA
11	d	101	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
11	e	101	BCL	C3A-C2A-CAA-CBA
11	h	101	BCL	C3A-C2A-CAA-CBA
11	i	101	BCL	C3A-C2A-CAA-CBA
11	j	102	BCL	C3A-C2A-CAA-CBA
11	D	101	BCL	C10-C11-C12-C13
12	M	404	BPH	C8-C10-C11-C12
13	L	408	LMT	C1-C2-C3-C4
10	L	407	8K6	C11-C10-C9-C8
11	D	101	BCL	C16-C17-C18-C19
11	I	101	BCL	C16-C17-C18-C19
11	P	102	BCL	C16-C17-C18-C20
11	R	101	BCL	C16-C17-C18-C19
11	T	101	BCL	C16-C17-C18-C20
11	a	101	BCL	C16-C17-C18-C19
11	b	102	BCL	C16-C17-C18-C20
11	j	102	BCL	C16-C17-C18-C19
9	L	410	PGV	C22-C23-C24-C25
11	P	102	BCL	C3-C5-C6-C7
11	K	101	BCL	O1A-CGA-O2A-C1
11	N	102	BCL	O1A-CGA-O2A-C1
11	E	102	BCL	C8-C10-C11-C12
11	b	102	BCL	C8-C10-C11-C12
11	X	102	BCL	C4-C3-C5-C6
11	h	102	BCL	C2-C3-C5-C6
12	L	403	BPH	C2-C3-C5-C6
9	M	407	PGV	C12-C13-C14-C15
11	h	102	BCL	C16-C17-C18-C19
11	J	102	BCL	C8-C10-C11-C12
10	P	104	8K6	C13-C14-C15-C16
11	A	101	BCL	C2-C1-O2A-CGA
11	W	101	BCL	C8-C10-C11-C12
11	O	101	BCL	O1A-CGA-O2A-C1
11	f	102	BCL	O1A-CGA-O2A-C1
9	H	301	PGV	C6-C7-C8-C9
11	E	101	BCL	C8-C10-C11-C12
11	V	101	BCL	C15-C16-C17-C18
11	f	102	BCL	C5-C6-C7-C8
11	b	101	BCL	C5-C6-C7-C8
11	h	102	BCL	C4-C3-C5-C6
11	L	401	BCL	C12-C13-C15-C16
11	D	101	BCL	C12-C13-C15-C16
11	E	101	BCL	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
11	E	102	BCL	C6-C7-C8-C10
11	K	101	BCL	C12-C13-C15-C16
11	N	101	BCL	C11-C10-C8-C7
11	O	101	BCL	C11-C12-C13-C15
11	P	102	BCL	C11-C12-C13-C15
11	T	102	BCL	C2-C3-C5-C6
11	U	101	BCL	C12-C13-C15-C16
11	W	101	BCL	C6-C7-C8-C10
11	W	101	BCL	C12-C13-C15-C16
11	X	102	BCL	C2-C3-C5-C6
11	c	101	BCL	C11-C12-C13-C15
11	f	101	BCL	C11-C12-C13-C15
11	f	102	BCL	C2-C3-C5-C6
11	g	101	BCL	C6-C7-C8-C10
11	h	102	BCL	C6-C7-C8-C10
11	i	101	BCL	C6-C7-C8-C10
11	b	101	BCL	C3-C5-C6-C7
11	d	101	BCL	C3-C5-C6-C7
11	D	101	BCL	C8-C10-C11-C12
11	F	101	BCL	C5-C6-C7-C8
11	d	102	BCL	C16-C17-C18-C20
11	X	101	BCL	O1D-CGD-O2D-CED
9	H	301	PGV	C12-C13-C14-C15
11	D	101	BCL	CBA-CGA-O2A-C1
11	S	101	BCL	CBA-CGA-O2A-C1
11	f	101	BCL	C2A-CAA-CBA-CGA
11	T	101	BCL	C10-C11-C12-C13
11	e	101	BCL	C8-C10-C11-C12
11	f	102	BCL	C13-C15-C16-C17
10	C	509	8K6	C11-C10-C9-C8
11	G	102	BCL	C16-C17-C18-C19
11	J	101	BCL	C13-C15-C16-C17
9	H	302	PGV	C2-C1-O01-C02
11	V	102	BCL	C10-C11-C12-C13
11	M	403	BCL	C3-C5-C6-C7
9	M	408	PGV	O03-C01-C02-O01
9	H	301	PGV	C29-C30-C31-C32
9	H	301	PGV	C1-C2-C3-C4
11	R	102	BCL	C2-C3-C5-C6
11	M	403	BCL	C6-C7-C8-C9
11	A	101	BCL	C11-C12-C13-C14
11	N	101	BCL	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
11	P	101	BCL	C11-C12-C13-C14
11	Q	101	BCL	C14-C13-C15-C16
11	R	101	BCL	C11-C12-C13-C14
11	U	101	BCL	C14-C13-C15-C16
11	W	101	BCL	C14-C13-C15-C16
11	Y	101	BCL	C14-C13-C15-C16
11	Z	101	BCL	C6-C7-C8-C9
11	b	102	BCL	C6-C7-C8-C9
11	e	101	BCL	C6-C7-C8-C9
11	f	101	BCL	C11-C10-C8-C9
11	f	101	BCL	C11-C12-C13-C14
11	g	101	BCL	C14-C13-C15-C16
11	h	102	BCL	C11-C12-C13-C14
11	i	101	BCL	C14-C13-C15-C16
11	D	101	BCL	O1A-CGA-O2A-C1
11	S	101	BCL	O1A-CGA-O2A-C1
11	L	401	BCL	C1A-C2A-CAA-CBA
11	B	101	BCL	C1A-C2A-CAA-CBA
11	A	101	BCL	C1A-C2A-CAA-CBA
11	G	102	BCL	C1A-C2A-CAA-CBA
11	I	101	BCL	C1A-C2A-CAA-CBA
11	J	102	BCL	C1A-C2A-CAA-CBA
11	N	101	BCL	C1A-C2A-CAA-CBA
11	O	101	BCL	C1A-C2A-CAA-CBA
11	P	102	BCL	C1A-C2A-CAA-CBA
11	R	101	BCL	C1A-C2A-CAA-CBA
11	R	102	BCL	C1A-C2A-CAA-CBA
11	T	101	BCL	C1A-C2A-CAA-CBA
11	T	102	BCL	C1A-C2A-CAA-CBA
11	V	102	BCL	C1A-C2A-CAA-CBA
11	W	101	BCL	C1A-C2A-CAA-CBA
11	f	102	BCL	C1A-C2A-CAA-CBA
11	i	101	BCL	C1A-C2A-CAA-CBA
11	j	102	BCL	C1A-C2A-CAA-CBA
11	j	103	BCL	C1A-C2A-CAA-CBA
11	B	101	BCL	C16-C17-C18-C20
11	A	101	BCL	C16-C17-C18-C19
11	T	102	BCL	C16-C17-C18-C20
11	h	102	BCL	C16-C17-C18-C20
11	j	102	BCL	C16-C17-C18-C20
9	H	302	PGV	O02-C1-O01-C02
11	E	102	BCL	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
11	V	101	BCL	C3-C5-C6-C7
11	S	101	BCL	C5-C6-C7-C8
11	f	101	BCL	C13-C15-C16-C17
11	W	101	BCL	CBA-CGA-O2A-C1
11	R	102	BCL	C4-C3-C5-C6
11	T	102	BCL	C4-C3-C5-C6
11	B	101	BCL	C2C-C3C-CAC-CBC
11	D	101	BCL	C2C-C3C-CAC-CBC
11	E	101	BCL	C2C-C3C-CAC-CBC
11	I	101	BCL	C2C-C3C-CAC-CBC
11	U	101	BCL	C2C-C3C-CAC-CBC
11	V	101	BCL	C2C-C3C-CAC-CBC
11	b	101	BCL	C2C-C3C-CAC-CBC
11	i	101	BCL	C2C-C3C-CAC-CBC
11	A	102	BCL	C13-C15-C16-C17
11	E	101	BCL	C13-C15-C16-C17
11	G	101	BCL	C16-C17-C18-C19
11	e	101	BCL	C16-C17-C18-C19
11	c	101	BCL	C3-C5-C6-C7
9	M	407	PGV	O03-C01-C02-C03
9	H	302	PGV	C2-C3-C4-C5
11	K	101	BCL	C16-C17-C18-C19
11	G	102	BCL	C13-C15-C16-C17
11	W	101	BCL	O1A-CGA-O2A-C1
9	H	302	PGV	C13-C14-C15-C16
11	F	101	BCL	C4-C3-C5-C6
11	G	102	BCL	C16-C17-C18-C20
11	P	101	BCL	C16-C17-C18-C20
11	P	102	BCL	C8-C10-C11-C12
11	f	102	BCL	C2A-CAA-CBA-CGA
11	G	102	BCL	C10-C11-C12-C13
11	b	102	BCL	C15-C16-C17-C18
11	f	101	BCL	C2-C1-O2A-CGA
9	H	301	PGV	O01-C02-C03-O11
9	M	407	PGV	C2-C1-O01-C02
11	J	102	BCL	C13-C15-C16-C17
16	I	102	CRT	C6-C7-C9-C10
16	Z	102	CRT	C6-C7-C9-C10
9	M	407	PGV	O03-C01-C02-O01
16	W	102	CRT	C3-C1-C4-C5
11	A	102	BCL	C4-C3-C5-C6
11	b	102	BCL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
11	L	401	BCL	C11-C10-C8-C7
11	M	403	BCL	C6-C7-C8-C10
11	B	101	BCL	C12-C13-C15-C16
11	A	102	BCL	C2-C3-C5-C6
11	D	101	BCL	C11-C10-C8-C7
11	E	101	BCL	C6-C7-C8-C10
11	F	101	BCL	C2-C3-C5-C6
11	K	101	BCL	C6-C7-C8-C10
11	N	101	BCL	C6-C7-C8-C10
11	N	102	BCL	C11-C12-C13-C15
11	Q	101	BCL	C12-C13-C15-C16
11	S	101	BCL	C12-C13-C15-C16
11	V	101	BCL	C6-C7-C8-C10
11	Y	101	BCL	C12-C13-C15-C16
11	Z	101	BCL	C6-C7-C8-C10
11	b	102	BCL	C2-C3-C5-C6
11	b	102	BCL	C12-C13-C15-C16
11	e	101	BCL	C6-C7-C8-C10
11	f	101	BCL	C11-C10-C8-C7
11	h	102	BCL	C11-C12-C13-C15
11	i	101	BCL	C12-C13-C15-C16
11	B	101	BCL	C14-C13-C15-C16
11	D	101	BCL	C14-C13-C15-C16
11	E	101	BCL	C6-C7-C8-C9
11	J	101	BCL	C11-C10-C8-C9
11	J	101	BCL	C11-C12-C13-C14
11	K	101	BCL	C14-C13-C15-C16
11	N	101	BCL	C6-C7-C8-C9
11	N	102	BCL	C6-C7-C8-C9
11	S	101	BCL	C14-C13-C15-C16
11	V	102	BCL	C11-C12-C13-C14
11	a	101	BCL	C14-C13-C15-C16
11	d	102	BCL	C6-C7-C8-C9
11	d	102	BCL	C11-C12-C13-C14
11	e	101	BCL	C14-C13-C15-C16
11	f	102	BCL	C6-C7-C8-C9
10	j	105	8K6	C9-C10-C11-C12
11	b	102	BCL	C10-C11-C12-C13
11	b	101	BCL	O1D-CGD-O2D-CED
16	U	102	CRT	O1-C1-C4-C5
16	e	102	CRT	O1-C1-C4-C5
11	G	101	BCL	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
10	H	303	8K6	C13-C14-C15-C16
9	L	410	PGV	C3-C4-C5-C6
11	Q	101	BCL	C13-C15-C16-C17
11	h	102	BCL	C8-C10-C11-C12
11	U	101	BCL	CBA-CGA-O2A-C1
11	L	402	BCL	C5-C6-C7-C8
11	Q	101	BCL	C16-C17-C18-C19
11	E	102	BCL	C15-C16-C17-C18
11	E	102	BCL	C4-C3-C5-C6
11	P	102	BCL	C4-C3-C5-C6
11	d	102	BCL	C4-C3-C5-C6
11	E	102	BCL	C2-C3-C5-C6
11	P	102	BCL	C2-C3-C5-C6
9	Z	103	PGV	C4-C5-C6-C7
11	F	101	BCL	CBA-CGA-O2A-C1
11	G	102	BCL	C8-C10-C11-C12
11	J	102	BCL	C5-C6-C7-C8
11	N	101	BCL	C15-C16-C17-C18
10	X	103	8K6	C11-C10-C9-C8
11	B	101	BCL	C5-C6-C7-C8
11	b	101	BCL	C13-C15-C16-C17
9	M	408	PGV	O03-C01-C02-C03
10	j	105	8K6	C5-C6-C7-C8
11	V	102	BCL	C15-C16-C17-C18
11	N	102	BCL	C4-C3-C5-C6
11	N	102	BCL	C2-C3-C5-C6
11	d	102	BCL	C2-C3-C5-C6
11	Z	101	BCL	O1D-CGD-O2D-CED
9	C	508	PGV	C12-C13-C14-C15
11	U	101	BCL	O1A-CGA-O2A-C1
11	J	101	BCL	C16-C17-C18-C20
11	e	101	BCL	C16-C17-C18-C20
15	M	405	MQ8	C18-C20-C21-C22
11	g	101	BCL	C2-C1-O2A-CGA
11	E	101	BCL	C14-C13-C15-C16
11	I	101	BCL	C14-C13-C15-C16
11	P	101	BCL	C6-C7-C8-C9
11	X	102	BCL	C6-C7-C8-C9
11	F	101	BCL	C3-C5-C6-C7
11	N	102	BCL	C13-C15-C16-C17
16	E	103	CRT	C5-C6-C7-C8
11	B	101	BCL	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
11	D	101	BCL	C4C-C3C-CAC-CBC
11	X	102	BCL	C4C-C3C-CAC-CBC
11	b	101	BCL	C4C-C3C-CAC-CBC
16	a	102	CRT	C32-C33-C35-C36
9	M	407	PGV	O02-C1-O01-C02
11	K	101	BCL	C16-C17-C18-C20
11	j	103	BCL	C16-C17-C18-C19
9	H	301	PGV	C01-C02-C03-O11
11	E	101	BCL	C11-C12-C13-C15
11	G	101	BCL	C12-C13-C15-C16
11	G	102	BCL	C12-C13-C15-C16
11	I	101	BCL	C12-C13-C15-C16
11	J	101	BCL	C12-C13-C15-C16
11	P	101	BCL	C6-C7-C8-C10
11	T	101	BCL	C6-C7-C8-C10
11	U	101	BCL	C11-C10-C8-C7
11	V	101	BCL	C11-C12-C13-C15
11	V	102	BCL	C11-C12-C13-C15
11	X	101	BCL	C12-C13-C15-C16
11	a	101	BCL	C12-C13-C15-C16
11	b	101	BCL	C6-C7-C8-C10
11	b	102	BCL	C11-C12-C13-C15
11	d	101	BCL	C12-C13-C15-C16
11	d	102	BCL	C11-C12-C13-C15
11	e	101	BCL	C12-C13-C15-C16
11	f	101	BCL	C12-C13-C15-C16
11	h	102	BCL	C12-C13-C15-C16
11	X	101	BCL	C10-C11-C12-C13
16	I	102	CRT	C8-C7-C9-C10
11	c	101	BCL	C8-C10-C11-C12
9	L	410	PGV	C20-C19-O03-C01
9	R	104	PGV	C01-C02-O01-C1
11	L	401	BCL	CAD-CBD-CGD-O2D
11	M	402	BCL	CAD-CBD-CGD-O2D
12	M	404	BPH	CAD-CBD-CGD-O2D
11	F	101	BCL	C13-C15-C16-C17
11	N	102	BCL	C5-C6-C7-C8
11	J	102	BCL	C4-C3-C5-C6
9	H	302	PGV	O01-C02-C03-O11
11	T	101	BCL	C3-C5-C6-C7
11	A	101	BCL	CHA-CBD-CGD-O1D
11	T	101	BCL	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
11	F	101	BCL	O1A-CGA-O2A-C1
9	M	408	PGV	C20-C19-O03-C01
11	g	101	BCL	C13-C15-C16-C17
9	L	410	PGV	O04-C19-O03-C01
9	M	407	PGV	C2-C3-C4-C5
11	A	101	BCL	C6-C7-C8-C9
11	E	101	BCL	C11-C12-C13-C14
11	I	101	BCL	C6-C7-C8-C9
11	J	102	BCL	C6-C7-C8-C9
11	T	101	BCL	C6-C7-C8-C9
11	U	101	BCL	C11-C10-C8-C9
11	b	101	BCL	C6-C7-C8-C9
11	g	101	BCL	O1A-CGA-O2A-C1
16	I	102	CRT	C5-C6-C7-C8
16	E	103	CRT	C5-C6-C7-C9
16	I	102	CRT	C5-C6-C7-C9
11	J	101	BCL	C2-C1-O2A-CGA
11	R	102	BCL	C2-C1-O2A-CGA
11	X	101	BCL	C2-C1-O2A-CGA
11	g	101	BCL	CBA-CGA-O2A-C1
9	H	302	PGV	O12-C04-C05-O05
11	j	103	BCL	C4-C3-C5-C6
12	M	404	BPH	C4-C3-C5-C6
9	Z	103	PGV	C05-C04-O12-P
11	J	102	BCL	C2-C3-C5-C6
9	C	508	PGV	C03-O11-P-O13
9	H	301	PGV	C03-O11-P-O13
9	R	104	PGV	C03-O11-P-O13
11	L	402	BCL	C16-C17-C18-C19
11	J	101	BCL	C16-C17-C18-C19
11	Q	101	BCL	C16-C17-C18-C20
11	W	101	BCL	C16-C17-C18-C19
11	h	101	BCL	C16-C17-C18-C19
9	H	302	PGV	C01-C02-C03-O11
10	C	509	8K6	C9-C10-C11-C12
11	E	101	BCL	C3-C5-C6-C7
9	R	104	PGV	C3-C4-C5-C6
13	L	408	LMT	O5B-C1B-O1B-C4'
11	e	101	BCL	CBA-CGA-O2A-C1
11	L	402	BCL	C11-C12-C13-C15
11	L	402	BCL	C12-C13-C15-C16
11	M	402	BCL	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
11	M	402	BCL	C11-C12-C13-C15
11	M	403	BCL	C11-C10-C8-C7
11	A	101	BCL	C6-C7-C8-C10
11	A	101	BCL	C12-C13-C15-C16
11	E	101	BCL	C12-C13-C15-C16
11	J	101	BCL	C11-C10-C8-C7
11	K	101	BCL	C2C-C3C-CAC-CBC
11	K	101	BCL	C11-C10-C8-C7
11	P	101	BCL	C12-C13-C15-C16
11	R	101	BCL	C11-C10-C8-C7
11	V	102	BCL	C12-C13-C15-C16
11	Y	101	BCL	C6-C7-C8-C10
11	Z	101	BCL	C11-C10-C8-C7
11	j	102	BCL	C12-C13-C15-C16
11	e	101	BCL	O1A-CGA-O2A-C1
11	h	102	BCL	C10-C11-C12-C13
11	L	402	BCL	C2A-CAA-CBA-CGA
11	S	101	BCL	C16-C17-C18-C19
7	C	504	HEC	C2D-C3D-CAD-CBD
7	C	504	HEC	C4D-C3D-CAD-CBD
9	H	301	PGV	C02-C03-O11-P
9	M	408	PGV	O04-C19-O03-C01
15	M	405	MQ8	C24-C23-C25-C26
11	W	101	BCL	C13-C15-C16-C17
11	L	401	BCL	C11-C10-C8-C9
11	L	402	BCL	C11-C12-C13-C14
11	G	102	BCL	C14-C13-C15-C16
11	N	101	BCL	C14-C13-C15-C16
11	P	102	BCL	C6-C7-C8-C9
11	R	101	BCL	C11-C10-C8-C9
11	U	101	BCL	C6-C7-C8-C9
11	X	102	BCL	C11-C12-C13-C14
11	b	102	BCL	C11-C12-C13-C14
11	b	102	BCL	C14-C13-C15-C16
11	f	101	BCL	C14-C13-C15-C16
11	h	102	BCL	C14-C13-C15-C16
11	j	103	BCL	C11-C12-C13-C14
10	L	406	8K6	C10-C11-C12-C13
11	j	103	BCL	C16-C17-C18-C20
11	b	101	BCL	C16-C17-C18-C20
9	H	301	PGV	C30-C31-C32-C33
11	f	101	BCL	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
9	M	408	PGV	C28-C29-C30-C31
11	F	101	BCL	C2-C1-O2A-CGA
11	G	101	BCL	C2-C1-O2A-CGA
11	Z	101	BCL	C2-C1-O2A-CGA
10	H	303	8K6	C5-C6-C7-C8
11	M	403	BCL	C4-C3-C5-C6
11	e	101	BCL	C4-C3-C5-C6
13	L	408	LMT	C2B-C1B-O1B-C4'
10	V	103	8K6	C5-C6-C7-C8
10	L	405	8K6	C10-C11-C12-C13
9	C	508	PGV	C04-O12-P-O11
9	H	302	PGV	C04-O12-P-O11
9	R	104	PGV	C04-O12-P-O11
16	U	102	CRT	C3-C1-C4-C5
16	W	102	CRT	C2-C1-C4-C5
11	R	102	BCL	C6-C7-C8-C10
11	b	101	BCL	C11-C10-C8-C7
11	b	101	BCL	C12-C13-C15-C16
11	j	103	BCL	C2-C3-C5-C6
11	M	402	BCL	C11-C12-C13-C14
11	M	403	BCL	C11-C10-C8-C9
11	K	101	BCL	C11-C10-C8-C9
11	T	102	BCL	C6-C7-C8-C9
11	V	101	BCL	C6-C7-C8-C9
11	V	102	BCL	C14-C13-C15-C16
11	W	101	BCL	C6-C7-C8-C9
16	B	102	CRT	O1-C1-C4-C5
16	j	101	CRT	O1-C1-C4-C5
11	e	101	BCL	C13-C15-C16-C17
11	h	101	BCL	C16-C17-C18-C20
9	H	302	PGV	C6-C7-C8-C9
9	H	301	PGV	C5-C6-C7-C8
16	K	102	CRT	C9-C10-C11-C12
11	j	103	BCL	C13-C15-C16-C17
11	f	101	BCL	C8-C10-C11-C12
13	L	408	LMT	C3'-C4'-O1B-C1B
13	L	408	LMT	C5'-C4'-O1B-C1B
11	V	102	BCL	C4-C3-C5-C6
11	F	101	BCL	C6-C7-C8-C9
11	N	102	BCL	C14-C13-C15-C16
11	Y	101	BCL	C11-C12-C13-C14
11	b	101	BCL	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
11	b	102	BCL	C11-C10-C8-C9
11	d	102	BCL	C11-C10-C8-C9
16	Z	102	CRT	C21-C22-C23-C24
11	A	101	BCL	O1D-CGD-O2D-CED
13	L	408	LMT	C2-C3-C4-C5
11	E	102	BCL	C16-C17-C18-C20
11	W	101	BCL	C16-C17-C18-C20
11	M	402	BCL	O2A-C1-C2-C3
12	M	404	BPH	C2C-C3C-CAC-CBC
9	R	104	PGV	C12-C13-C14-C15
11	g	101	BCL	C4-C3-C5-C6
15	M	405	MQ8	C34-C33-C35-C36
11	M	403	BCL	C11-C12-C13-C15
11	B	101	BCL	C11-C10-C8-C7
11	A	102	BCL	C11-C10-C8-C7
11	G	101	BCL	C11-C12-C13-C15
11	V	101	BCL	C12-C13-C15-C16
9	H	301	PGV	C20-C21-C22-C23
11	U	101	BCL	C16-C17-C18-C19
12	L	403	BPH	C16-C17-C18-C20
9	M	407	PGV	O03-C19-C20-C21
16	Y	102	CRT	C4-C5-C6-C7
11	f	101	BCL	C16-C17-C18-C20
11	O	101	BCL	C13-C15-C16-C17
9	H	301	PGV	C2-C3-C4-C5
9	Z	103	PGV	C3-C4-C5-C6
16	Z	102	CRT	C21-C22-C23-C25
10	J	104	8K6	C5-C6-C7-C8
11	V	102	BCL	C8-C10-C11-C12
11	D	101	BCL	C3-C5-C6-C7
11	e	101	BCL	C2-C1-O2A-CGA
11	V	102	BCL	C2-C3-C5-C6
11	g	101	BCL	C2-C3-C5-C6
11	Q	101	BCL	C11-C12-C13-C14
15	M	405	MQ8	C30-C31-C32-C33
9	M	408	PGV	C25-C26-C27-C28
11	U	101	BCL	C4C-C3C-CAC-CBC
11	F	101	BCL	C16-C17-C18-C19
11	e	101	BCL	C2-C3-C5-C6
15	M	405	MQ8	C22-C23-C25-C26
11	M	403	BCL	C15-C16-C17-C18
11	Z	101	BCL	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
9	M	407	PGV	O01-C02-C03-O11
9	R	104	PGV	O01-C02-C03-O11
9	M	408	PGV	C30-C31-C32-C33
9	Z	103	PGV	C1-C2-C3-C4
11	F	101	BCL	C6-C7-C8-C10
11	G	102	BCL	C11-C10-C8-C7
11	j	103	BCL	C11-C12-C13-C15
11	S	101	BCL	C13-C15-C16-C17
9	M	407	PGV	C22-C23-C24-C25
11	S	101	BCL	C16-C17-C18-C20
10	d	103	8K6	C10-C11-C12-C13
11	M	403	BCL	C2-C3-C5-C6
12	M	404	BPH	C2-C3-C5-C6
15	M	405	MQ8	C32-C33-C35-C36
11	M	402	BCL	O1D-CGD-O2D-CED
11	M	403	BCL	C11-C12-C13-C14
11	B	101	BCL	C11-C10-C8-C9
11	A	102	BCL	C11-C10-C8-C9
11	I	101	BCL	C11-C12-C13-C14
11	S	101	BCL	C6-C7-C8-C9
11	Z	101	BCL	C11-C10-C8-C9
11	b	101	BCL	C14-C13-C15-C16
11	h	102	BCL	C6-C7-C8-C9
11	i	101	BCL	C6-C7-C8-C9
11	J	102	BCL	C3-C5-C6-C7
7	C	501	HEC	C3D-CAD-CBD-CGD
11	M	403	BCL	C3A-C2A-CAA-CBA
11	J	102	BCL	CAD-CBD-CGD-O2D
9	M	408	PGV	C24-C25-C26-C27
11	B	101	BCL	C13-C15-C16-C17
10	f	103	8K6	C14-C15-C16-C17
9	H	302	PGV	C11-C12-C13-C14
11	E	101	BCL	C16-C17-C18-C20
12	L	403	BPH	O2A-C1-C2-C3
9	R	104	PGV	C11-C12-C13-C14
9	Z	103	PGV	C9-C10-C11-C12
11	A	101	BCL	CHA-CBD-CGD-O2D
11	E	101	BCL	CHA-CBD-CGD-O1D
11	E	101	BCL	CHA-CBD-CGD-O2D
11	N	101	BCL	CHA-CBD-CGD-O1D
11	N	101	BCL	CHA-CBD-CGD-O2D
11	V	101	BCL	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
11	V	101	BCL	CHA-CBD-CGD-O2D
11	X	101	BCL	CHA-CBD-CGD-O1D
11	X	101	BCL	CHA-CBD-CGD-O2D
11	Z	101	BCL	CHA-CBD-CGD-O1D
11	Z	101	BCL	CHA-CBD-CGD-O2D
11	b	101	BCL	CHA-CBD-CGD-O2D
11	d	101	BCL	CHA-CBD-CGD-O1D
11	d	101	BCL	CHA-CBD-CGD-O2D
11	f	101	BCL	CHA-CBD-CGD-O1D
11	f	101	BCL	CHA-CBD-CGD-O2D
11	j	102	BCL	CHA-CBD-CGD-O1D
11	j	102	BCL	CHA-CBD-CGD-O2D
12	M	404	BPH	C3-C5-C6-C7
9	M	407	PGV	C01-C02-C03-O11
10	L	406	8K6	C11-C12-C13-C14
7	C	504	HEC	CAA-CBA-CGA-O2A
16	U	102	CRT	C2-C1-C4-C5
16	e	102	CRT	C3-C1-C4-C5
9	C	508	PGV	C13-C14-C15-C16
11	K	101	BCL	C11-C12-C13-C15
12	M	404	BPH	C11-C10-C8-C7
9	L	410	PGV	O03-C19-C20-C21
11	G	102	BCL	C11-C10-C8-C9
9	H	301	PGV	O12-C04-C05-O05
10	j	104	8K6	C7-C8-C9-C10
11	U	101	BCL	C13-C15-C16-C17
15	M	405	MQ8	C25-C26-C27-C28
11	U	101	BCL	C16-C17-C18-C20
11	M	403	BCL	C1A-C2A-CAA-CBA
10	d	103	8K6	C11-C10-C9-C8
11	j	102	BCL	O1D-CGD-O2D-CED
11	A	101	BCL	CAA-CBA-CGA-O2A
11	E	102	BCL	C13-C15-C16-C17
9	C	508	PGV	C04-O12-P-O13
9	R	104	PGV	C04-O12-P-O13
11	L	401	BCL	O1D-CGD-O2D-CED
9	L	410	PGV	O04-C19-C20-C21
11	W	101	BCL	C5-C6-C7-C8
9	M	408	PGV	O02-C1-O01-C02
11	E	101	BCL	C16-C17-C18-C19
11	c	101	BCL	C16-C17-C18-C19
7	C	504	HEC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
11	N	101	BCL	CAD-CBD-CGD-O1D
11	V	101	BCL	CAD-CBD-CGD-O1D
11	X	101	BCL	CAD-CBD-CGD-O1D
11	Z	101	BCL	CAD-CBD-CGD-O1D
11	b	101	BCL	CAD-CBD-CGD-O1D
9	M	408	PGV	C23-C24-C25-C26
11	N	102	BCL	C8-C10-C11-C12
11	D	101	BCL	C6-C7-C8-C9
11	E	102	BCL	C11-C10-C8-C9
11	T	101	BCL	C14-C13-C15-C16
11	d	102	BCL	C14-C13-C15-C16
11	f	102	BCL	C11-C12-C13-C14
11	g	101	BCL	C6-C7-C8-C9
9	M	408	PGV	C19-C20-C21-C22
11	Q	101	BCL	C3-C5-C6-C7
11	Q	101	BCL	CAA-CBA-CGA-O2A
11	X	101	BCL	CAA-CBA-CGA-O2A
11	O	101	BCL	C8-C10-C11-C12
11	A	101	BCL	CAA-CBA-CGA-O1A
9	Z	103	PGV	O01-C02-C03-O11
11	B	101	BCL	C6-C7-C8-C10
11	R	101	BCL	C12-C13-C15-C16
11	R	102	BCL	C2C-C3C-CAC-CBC
11	X	102	BCL	C12-C13-C15-C16
11	a	101	BCL	C11-C12-C13-C15
11	f	102	BCL	C11-C12-C13-C15
11	G	101	BCL	CAA-CBA-CGA-O2A
11	N	101	BCL	CAA-CBA-CGA-O2A
9	H	302	PGV	C20-C21-C22-C23
11	d	101	BCL	C10-C11-C12-C13
11	b	101	BCL	C8-C10-C11-C12
11	M	403	BCL	C13-C15-C16-C17
11	K	101	BCL	CAA-CBA-CGA-O2A

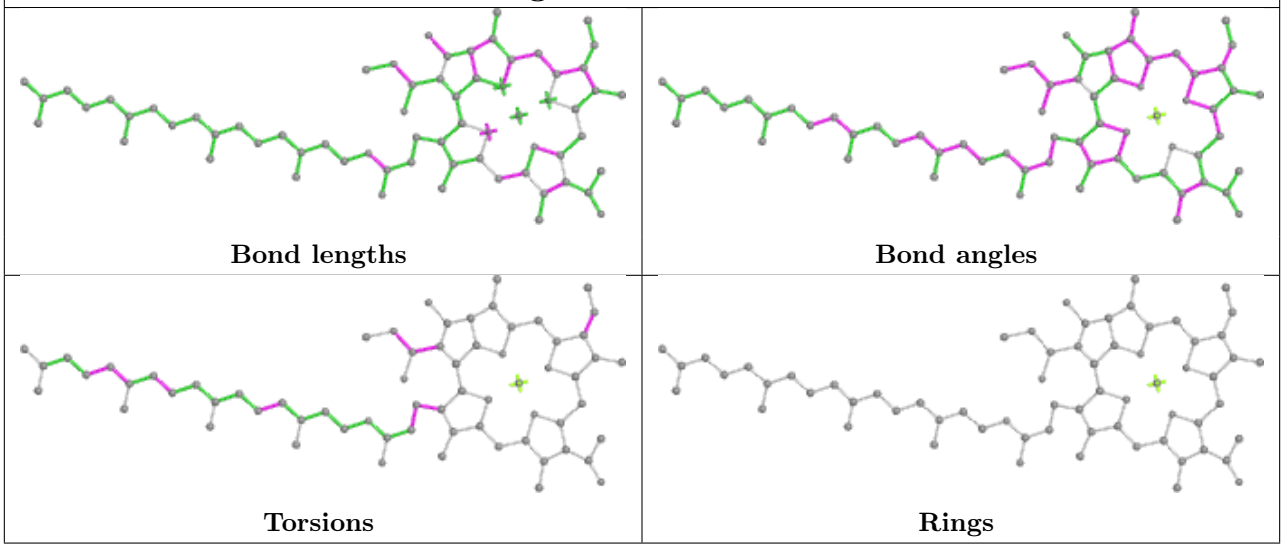
There are no ring outliers.

No monomer is involved in short contacts.

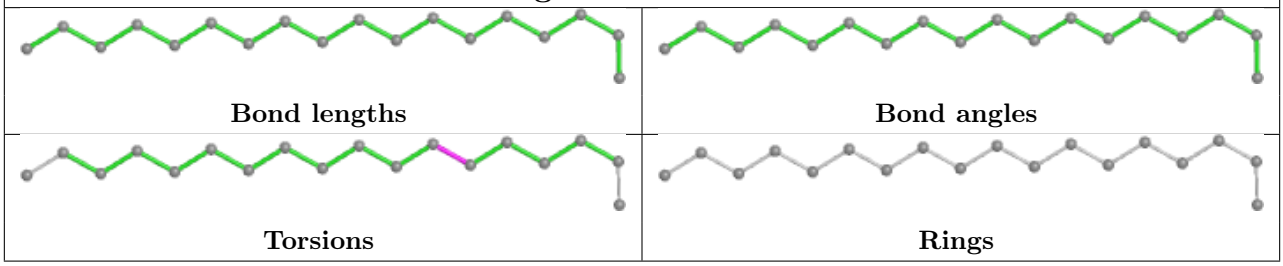
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.

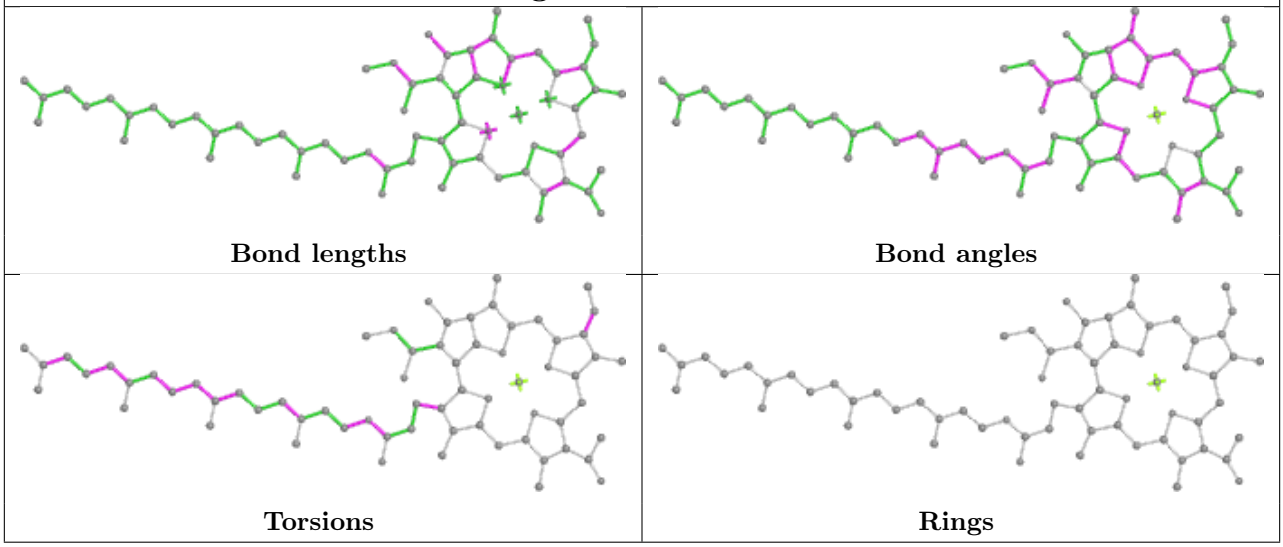
Ligand BCL d 101



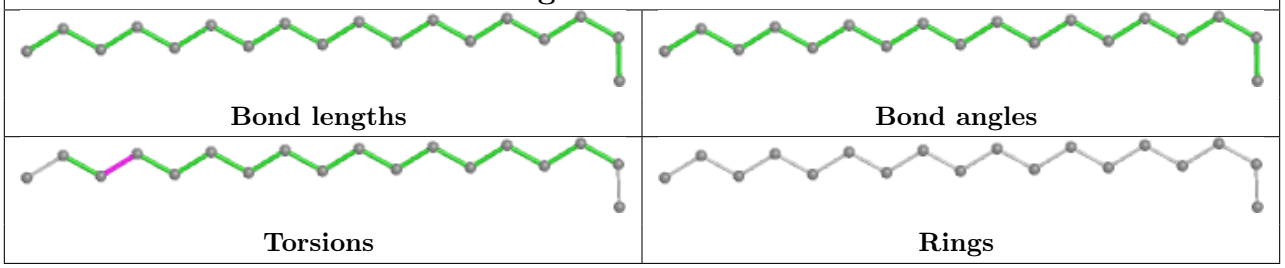
Ligand 8K6 J 104



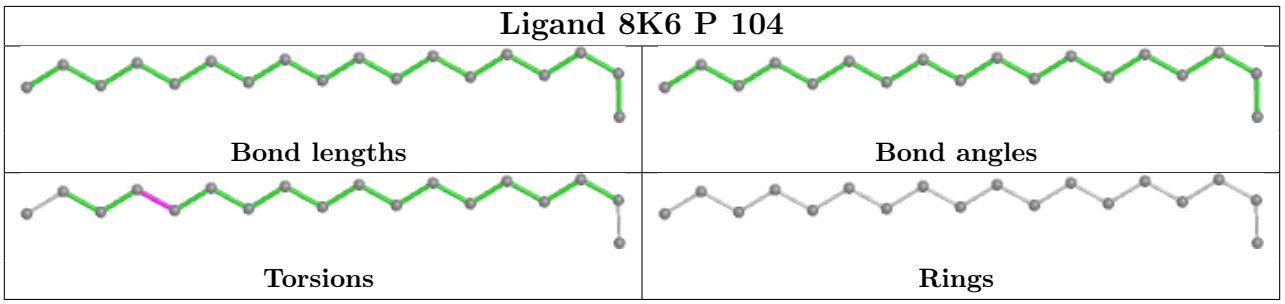
Ligand BCL e 101



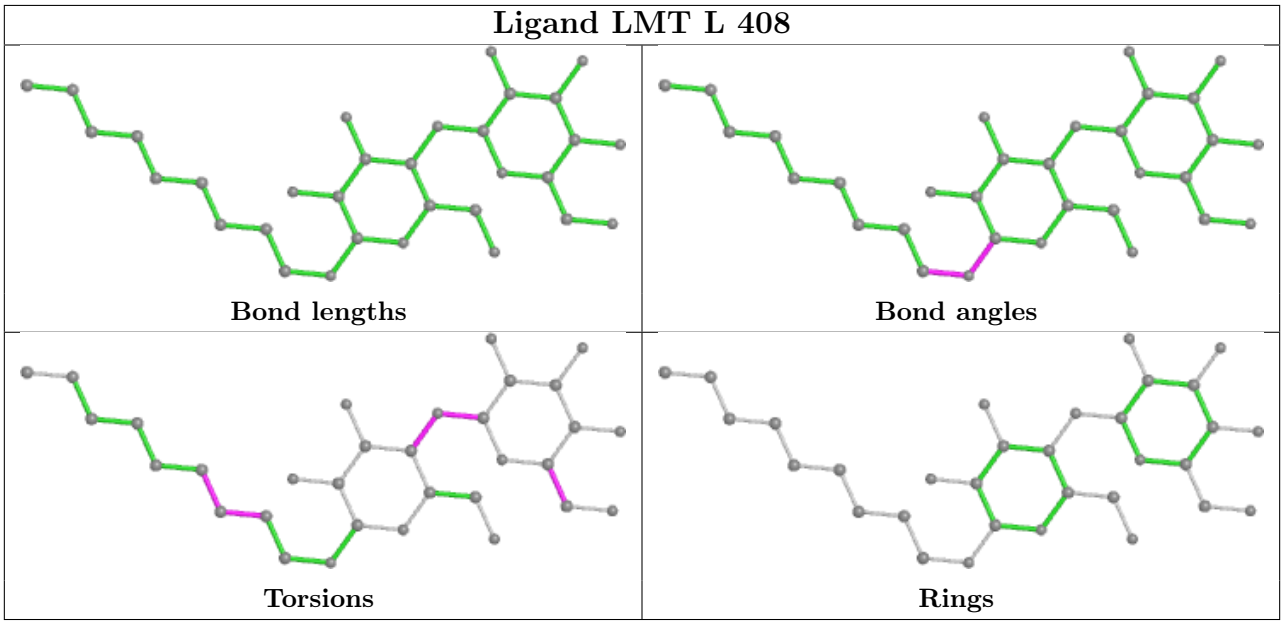
Ligand 8K6 f 103



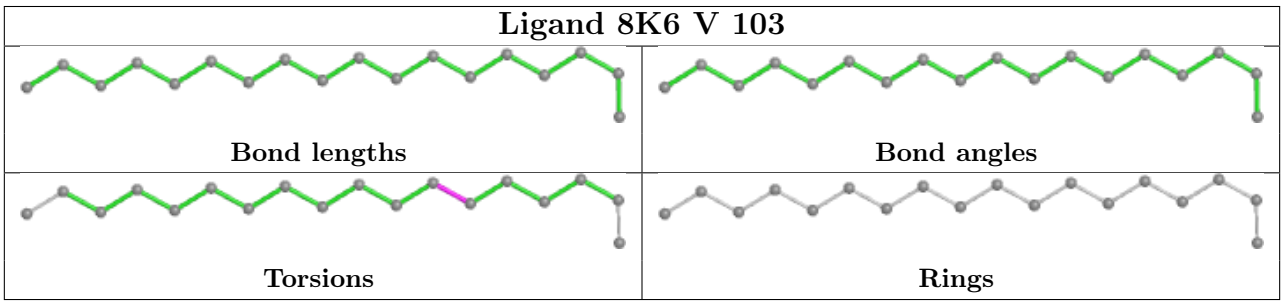
Ligand 8K6 P 104



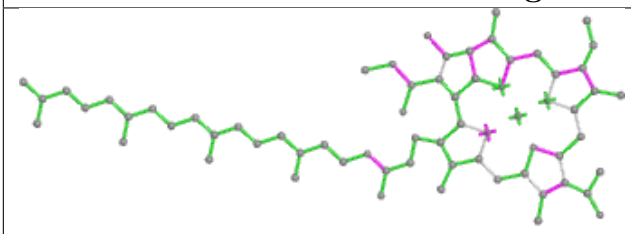
Ligand LMT L 408



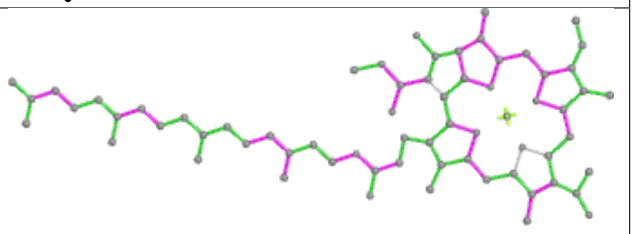
Ligand 8K6 V 103



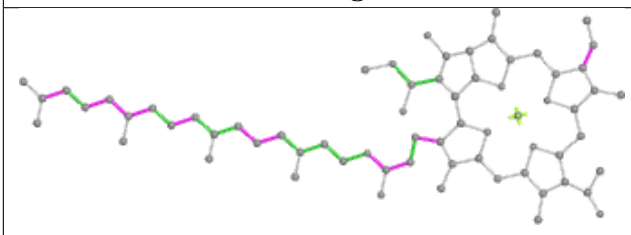
Ligand BCL Q 101



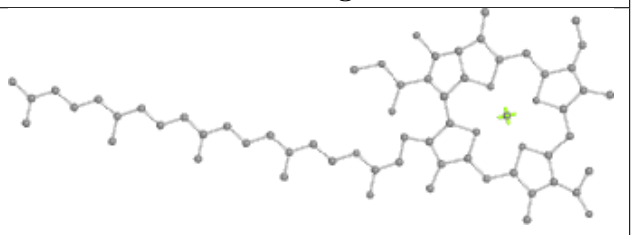
Bond lengths



Bond angles

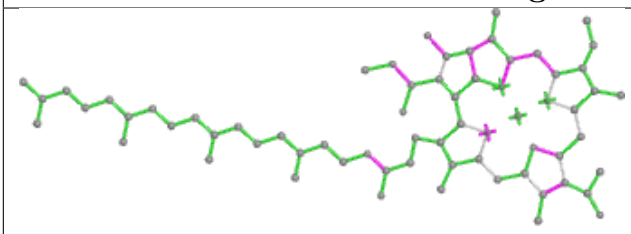


Torsions

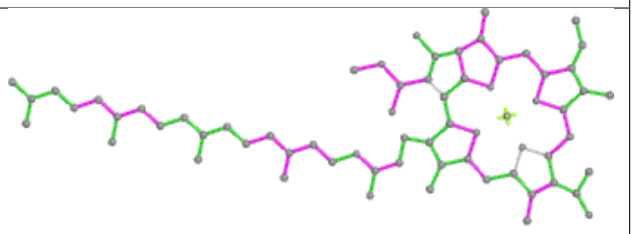


Rings

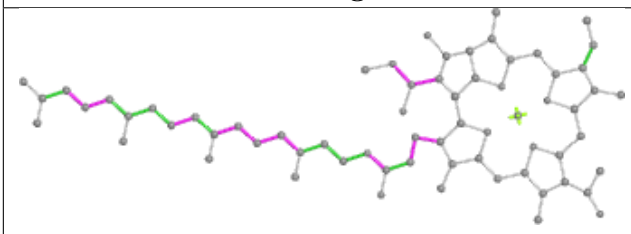
Ligand BCL J 102



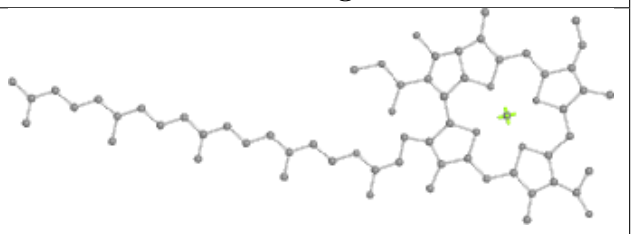
Bond lengths



Bond angles

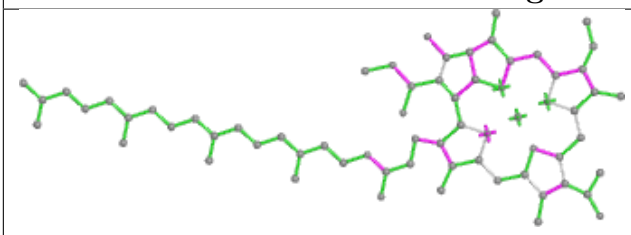


Torsions

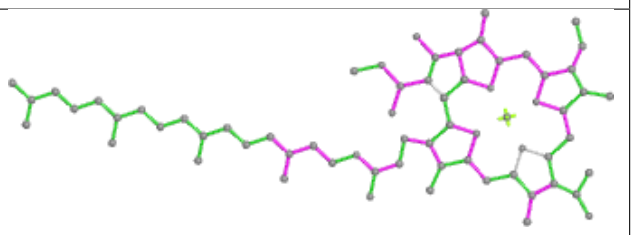


Rings

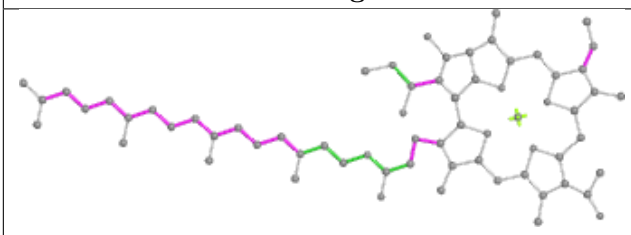
Ligand BCL E 101



Bond lengths



Bond angles



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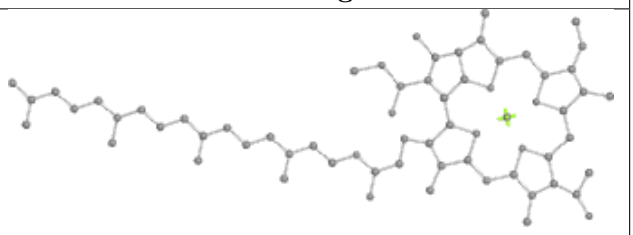
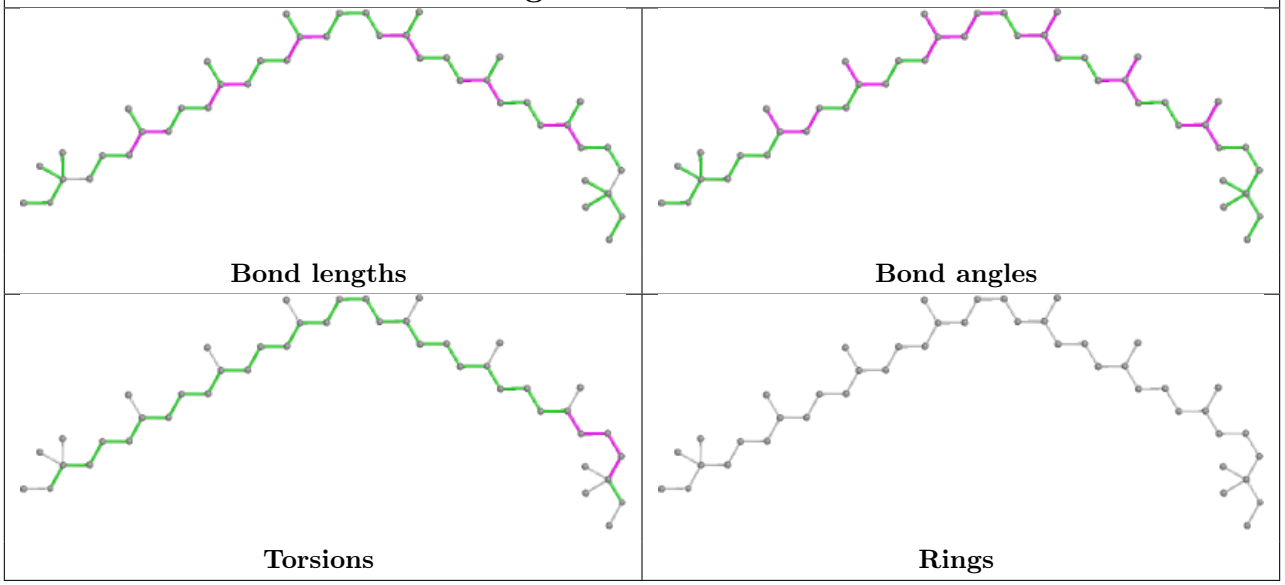
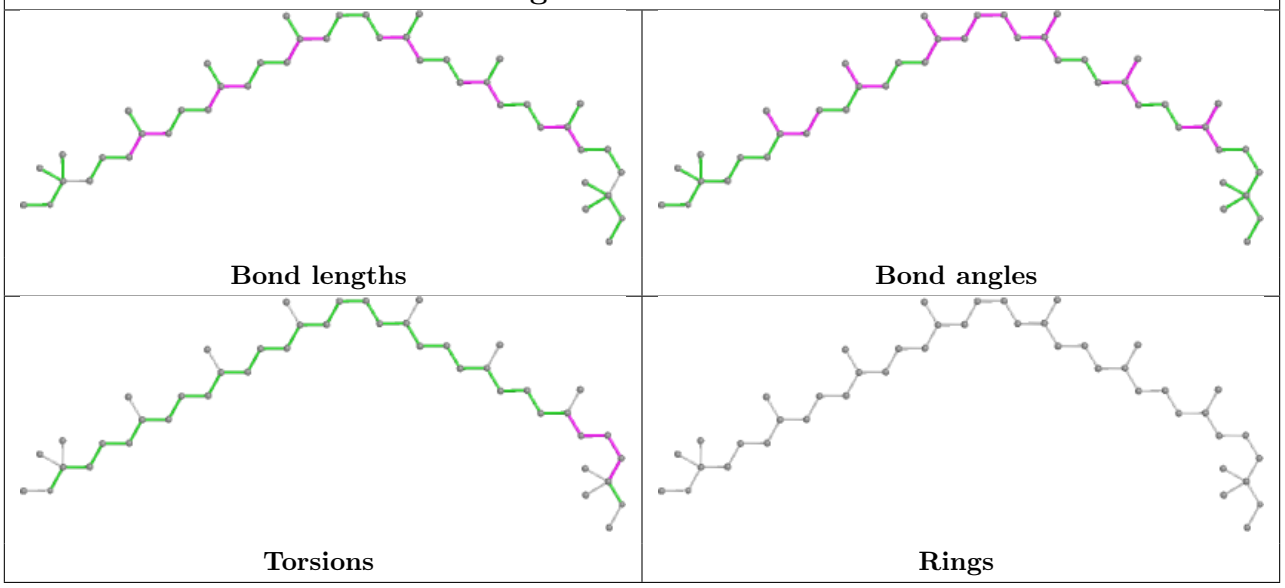


Rings

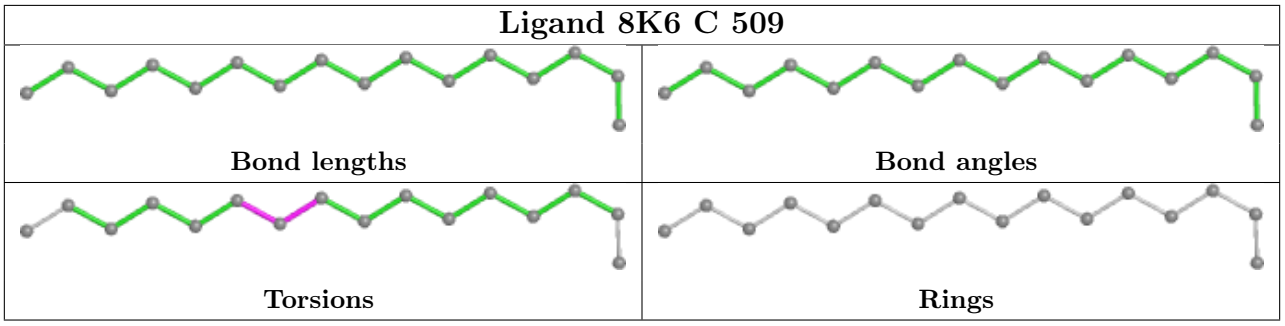
Ligand CRT B 102



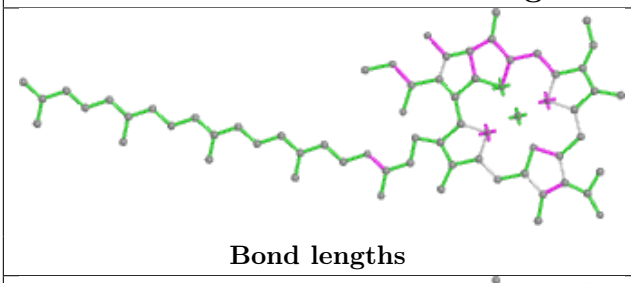
Ligand CRT e 102



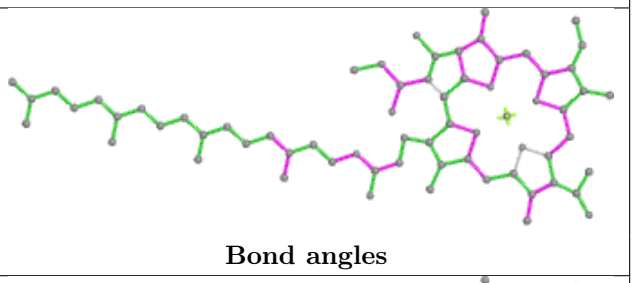
Ligand 8K6 C 509



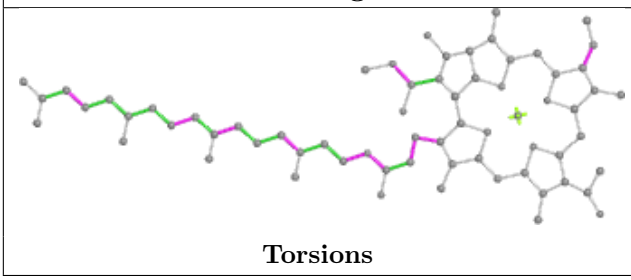
Ligand BCL R 102



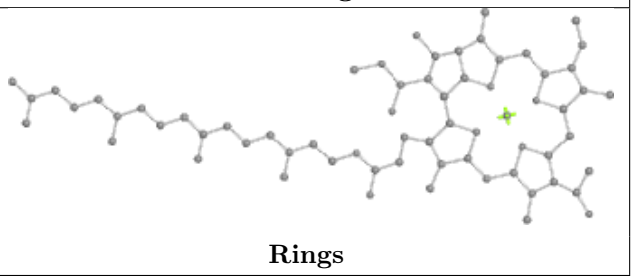
Bond lengths



Bond angles

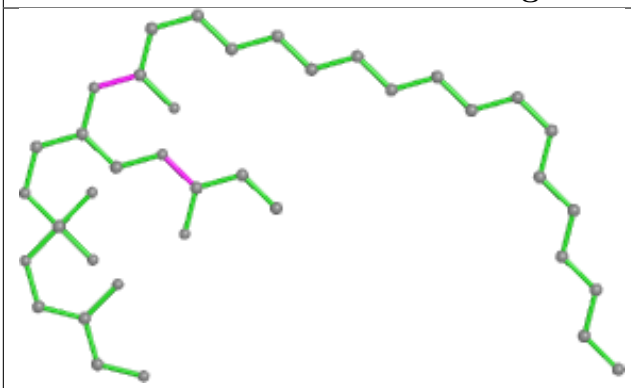


Torsions

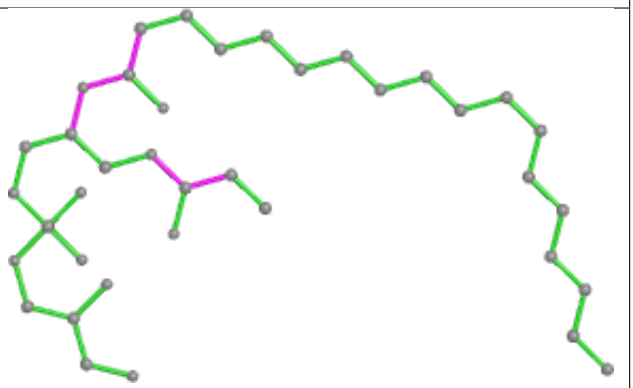


Rings

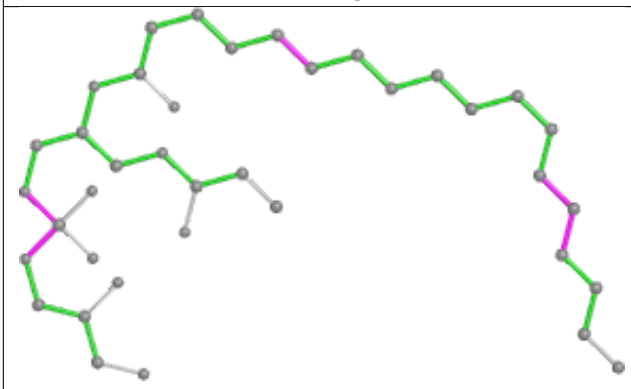
Ligand PGV C 508



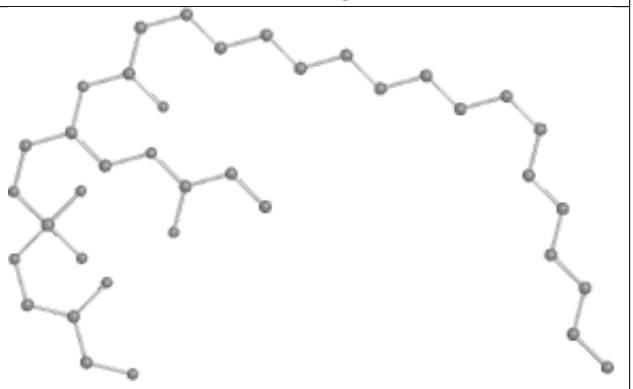
Bond lengths



Bond angles

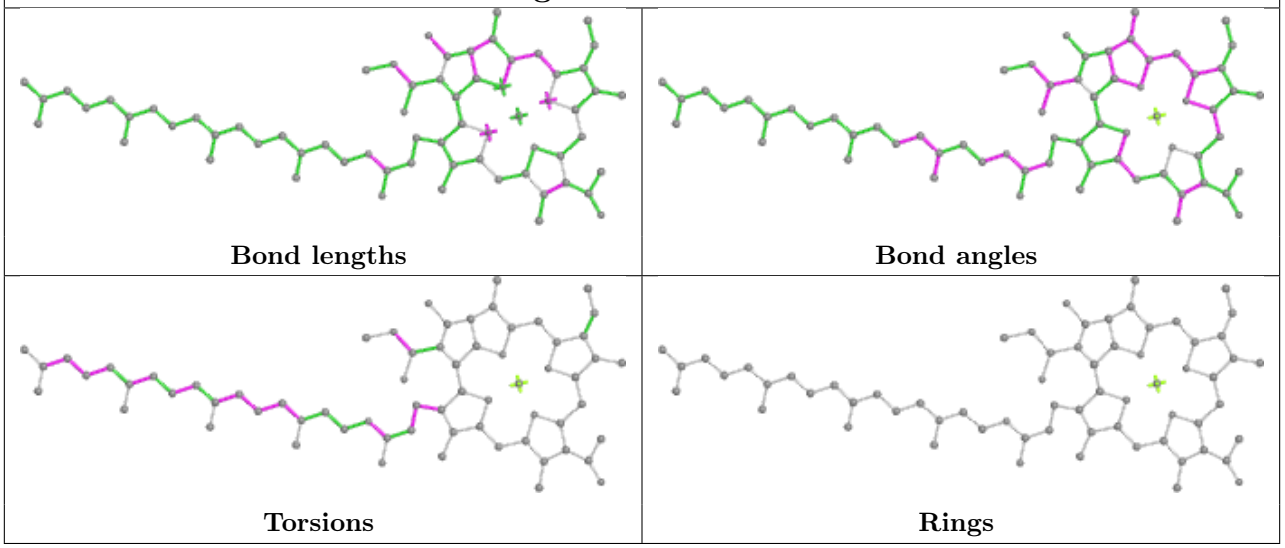


Torsions

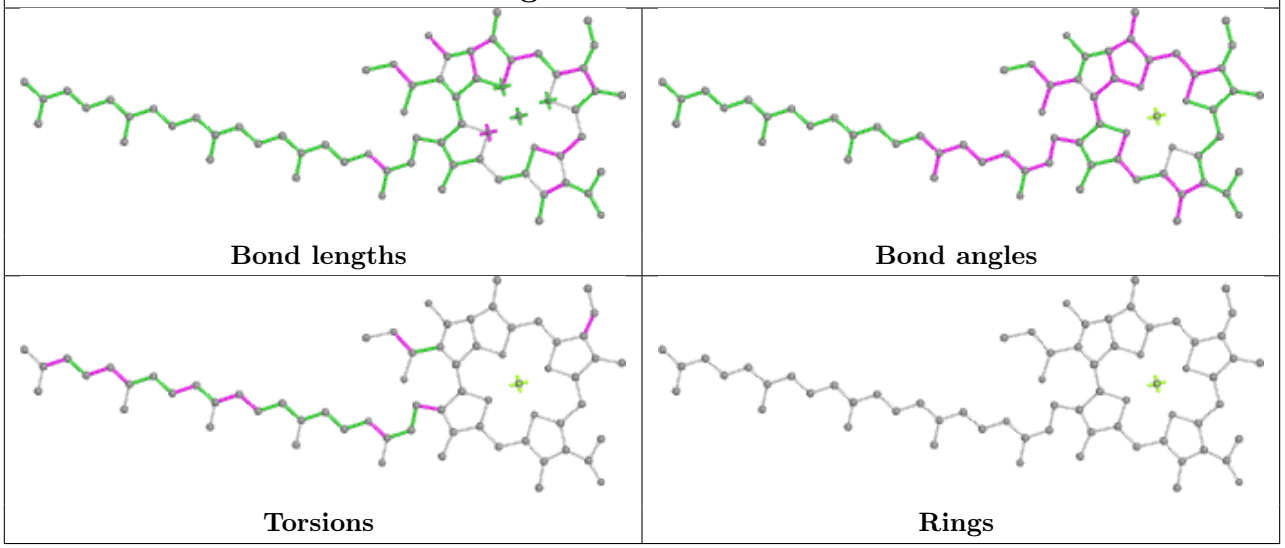


Rings

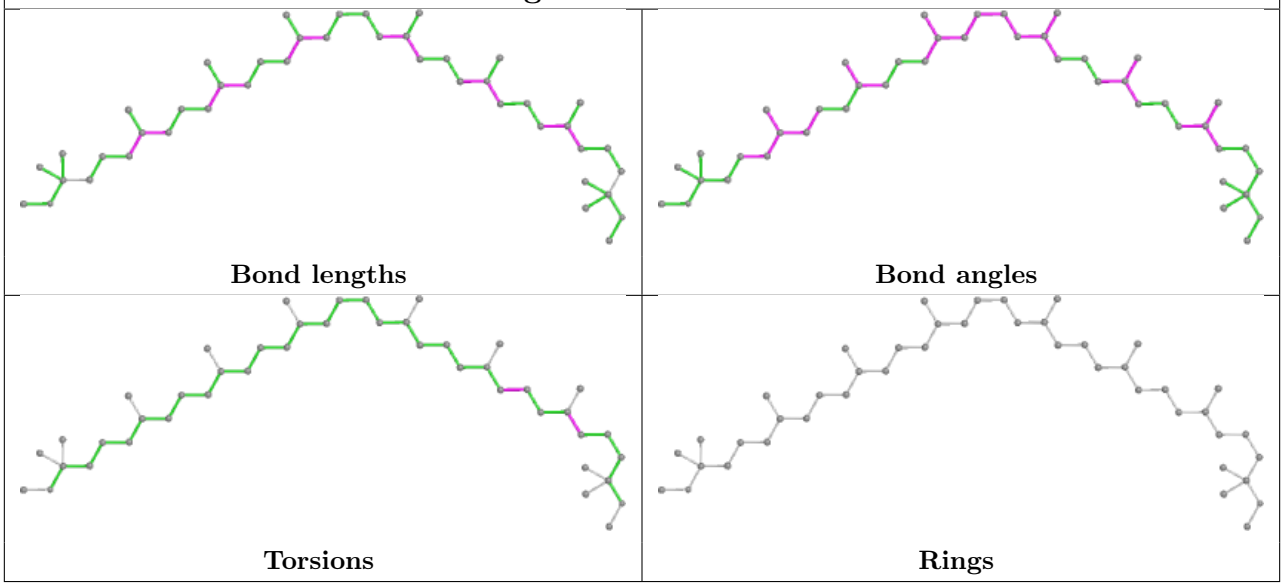
Ligand BCL f 102



Ligand BCL W 101



Ligand CRT K 102



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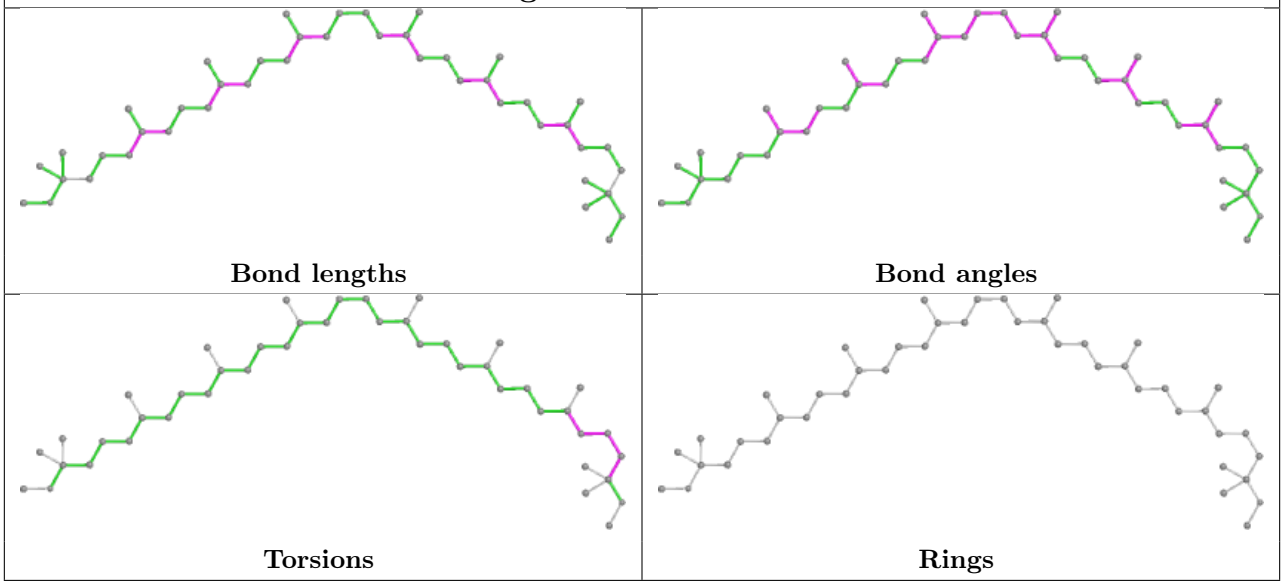
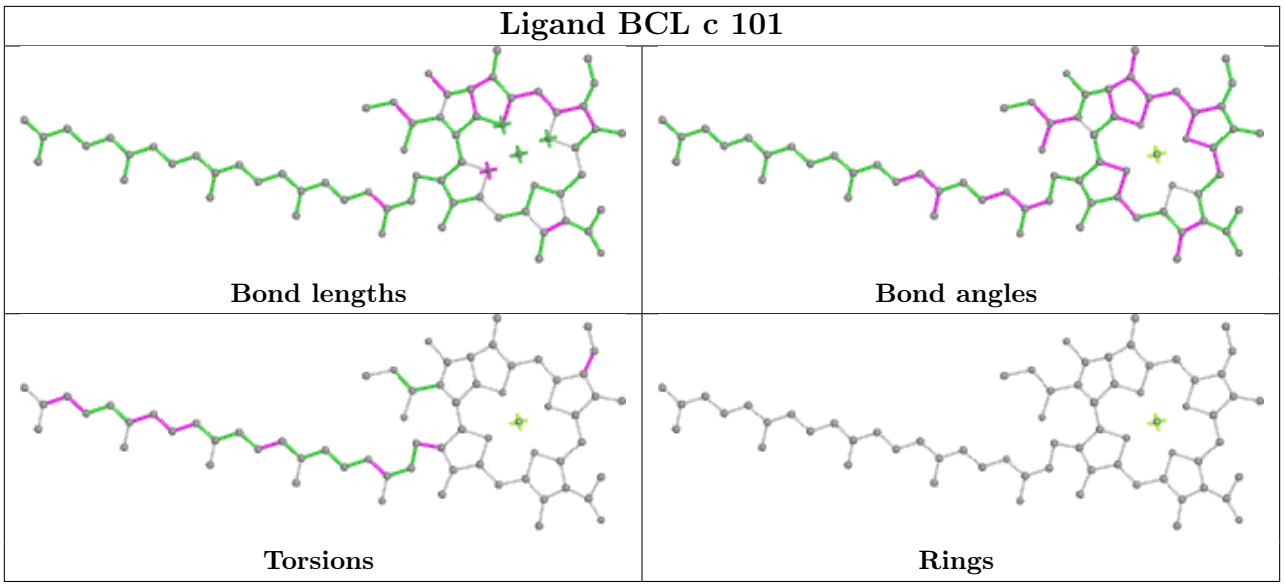
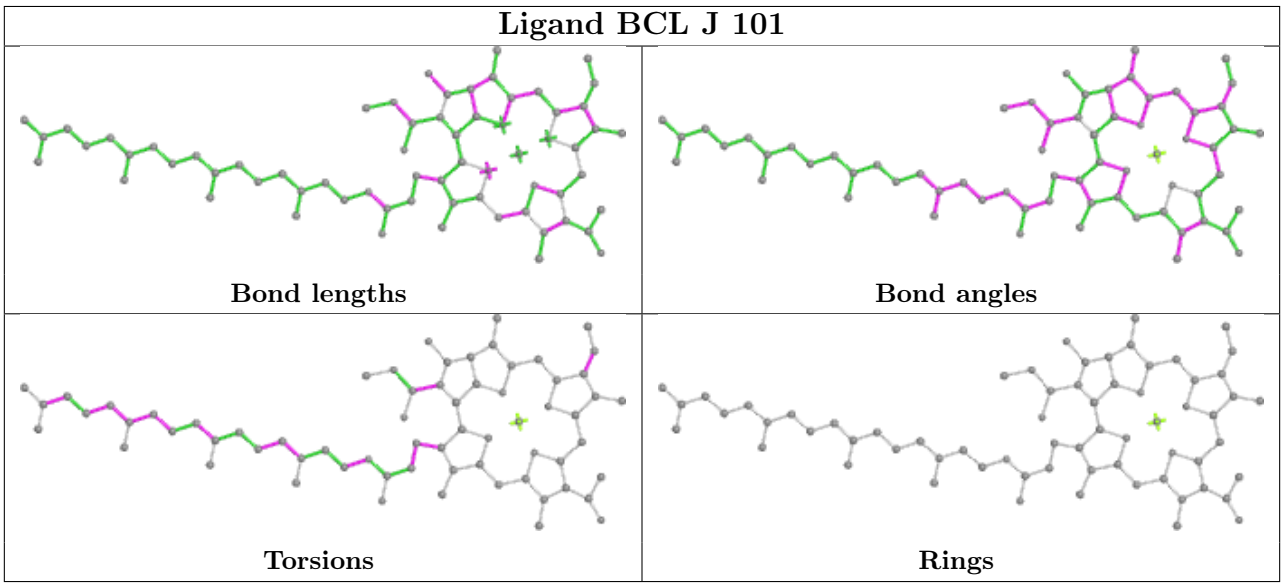


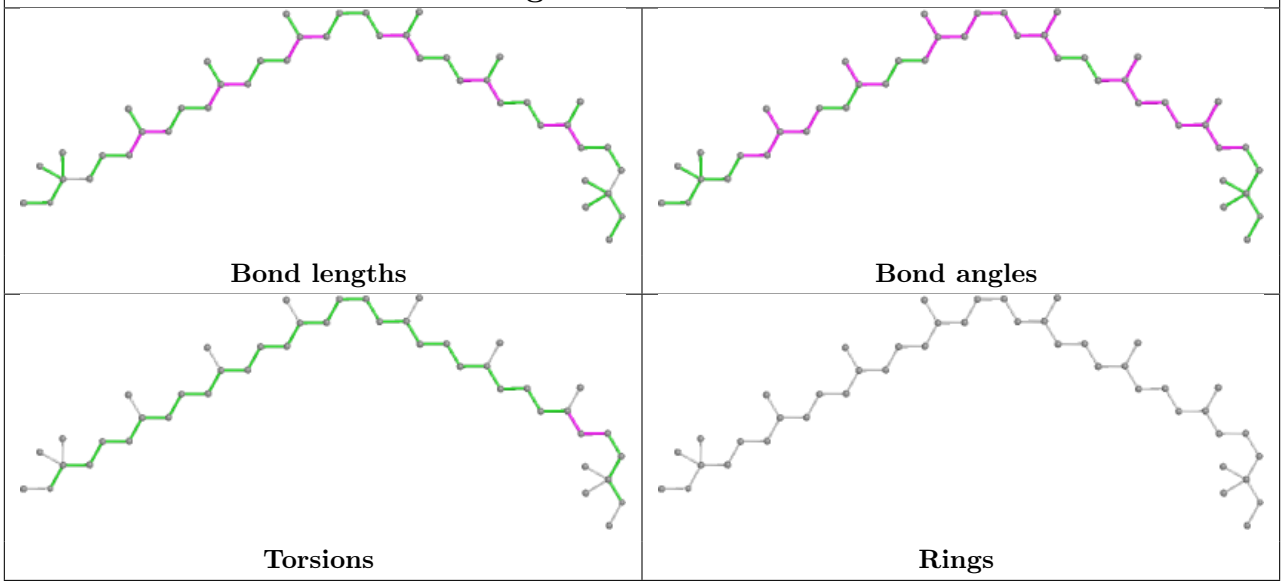
Ligand BCL c 101



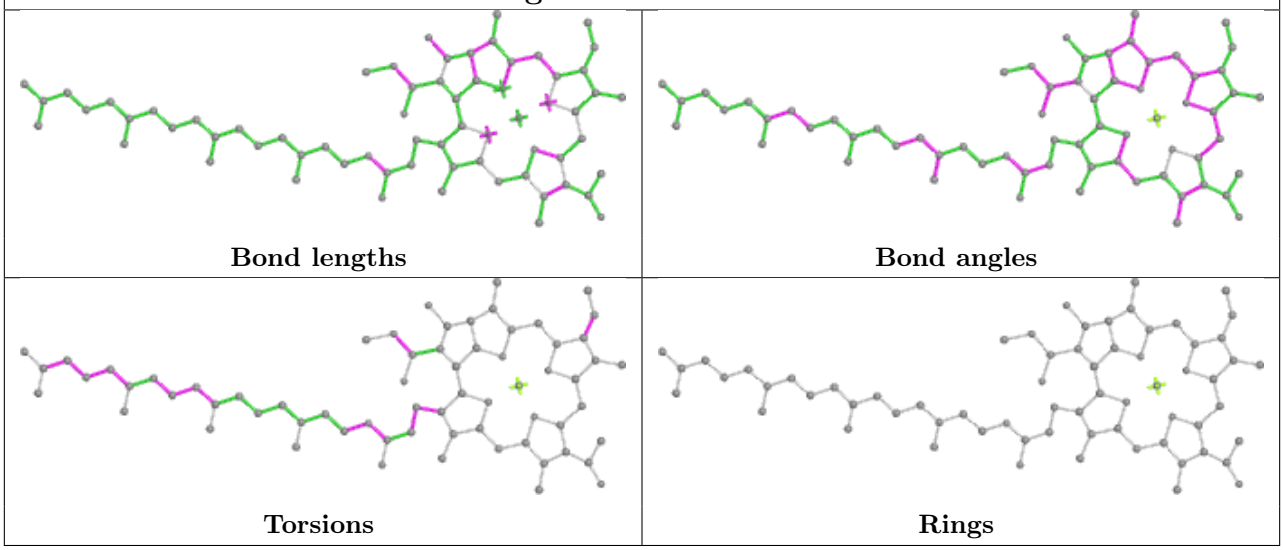
Ligand BCL J 101



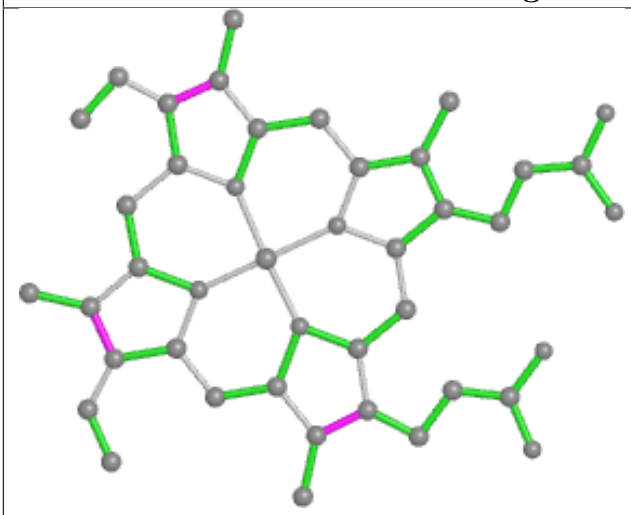
Ligand CRT E 103



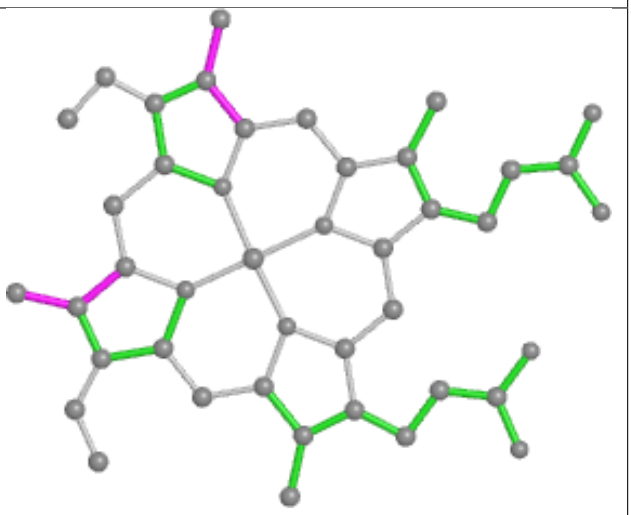
Ligand BCL G 102



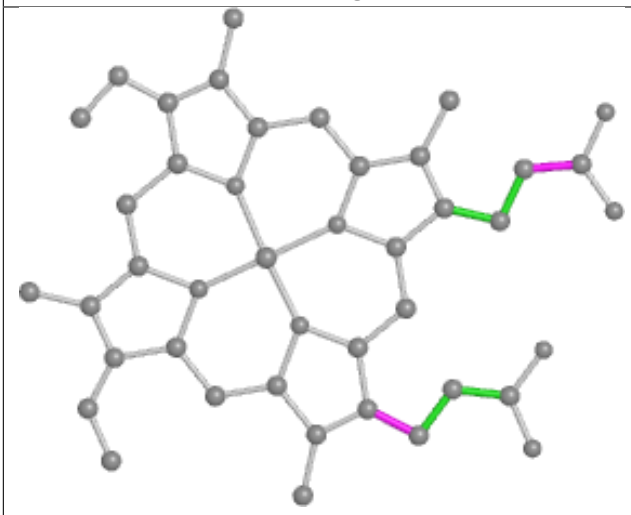
Ligand HEC C 504



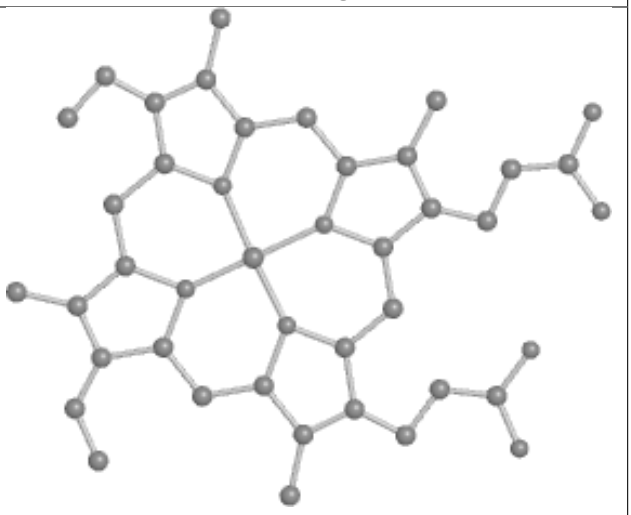
Bond lengths



Bond angles

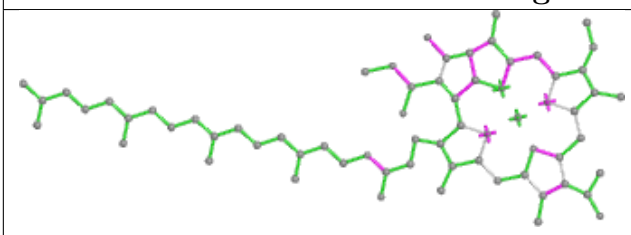


Torsions

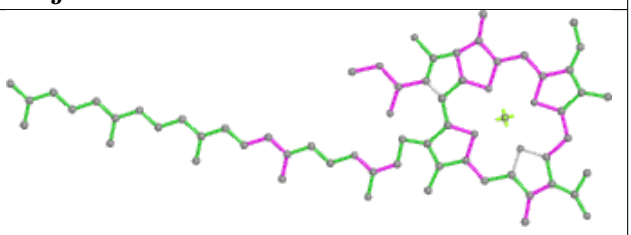


Rings

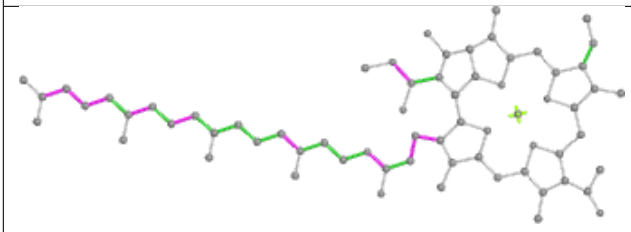
Ligand BCL j 103



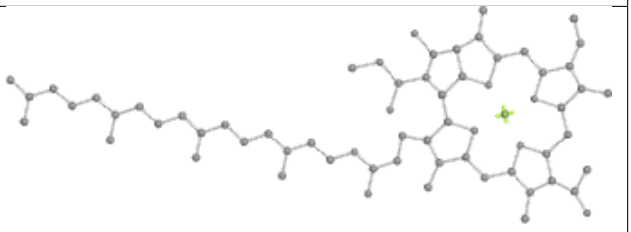
Bond lengths



Bond angles

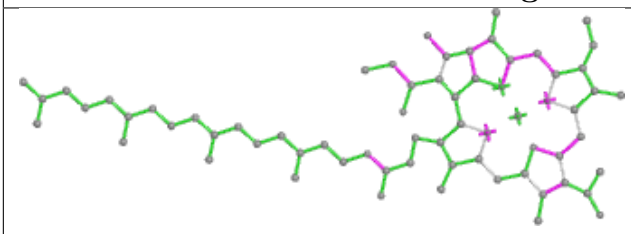


Torsions

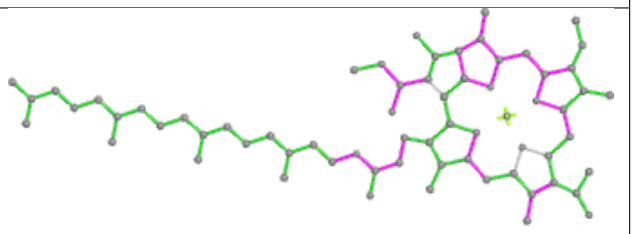


Rings

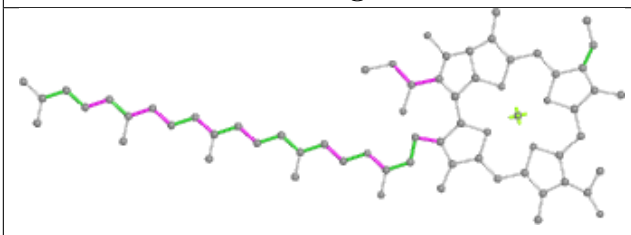
Ligand BCL M 402



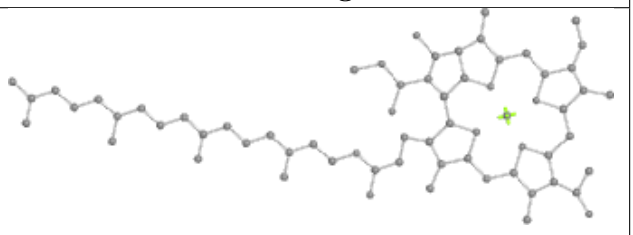
Bond lengths



Bond angles

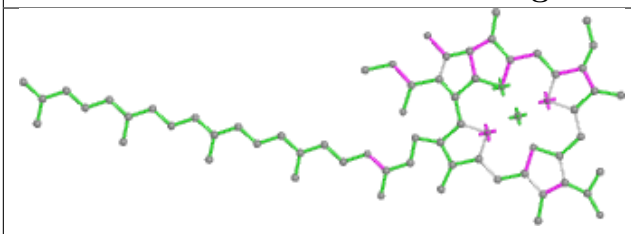


Torsions

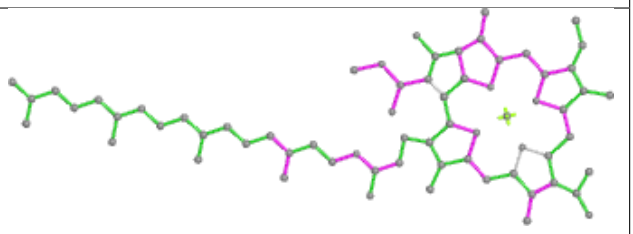


Rings

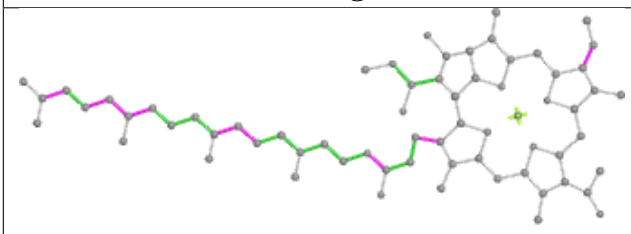
Ligand BCL I 101



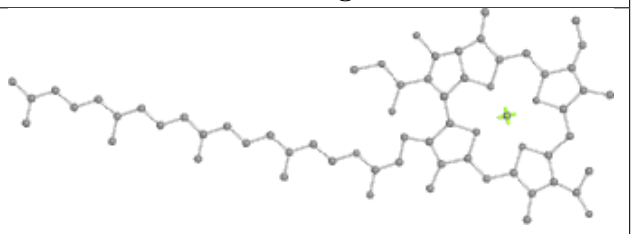
Bond lengths



Bond angles

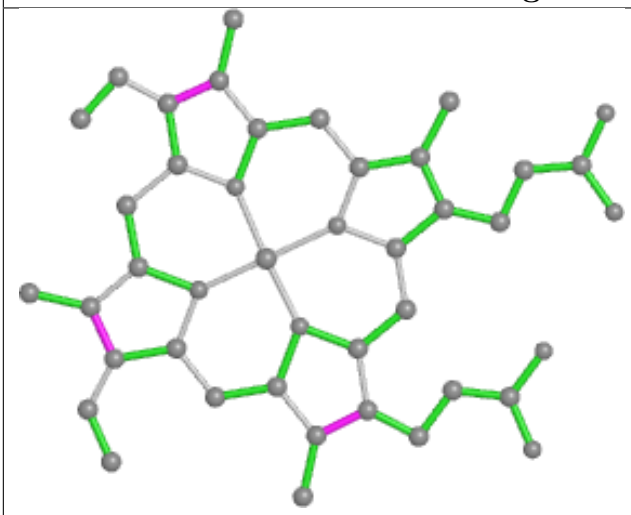


Torsions

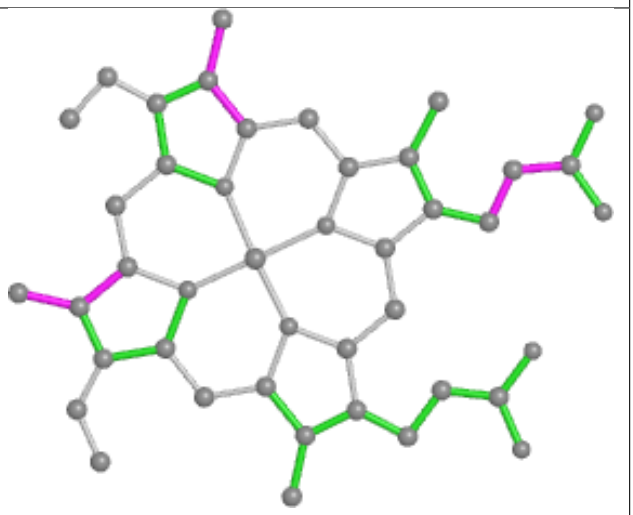


Rings

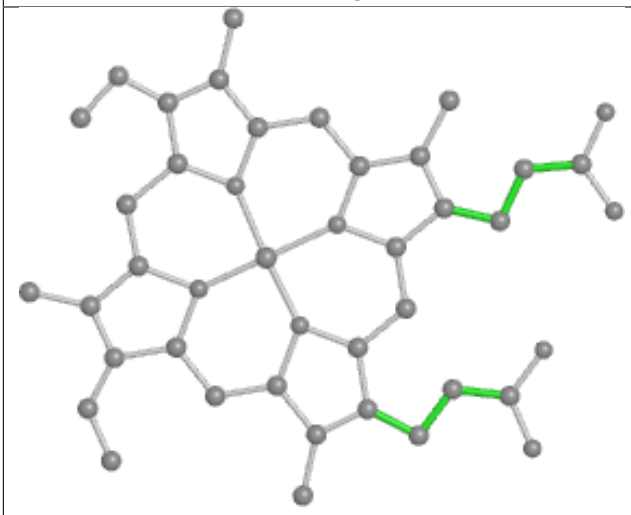
Ligand HEC C 503



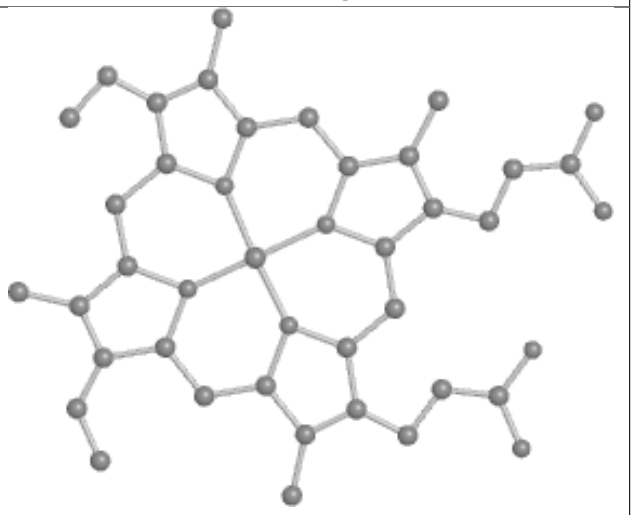
Bond lengths



Bond angles

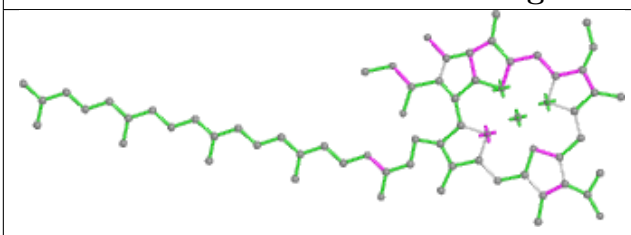


Torsions

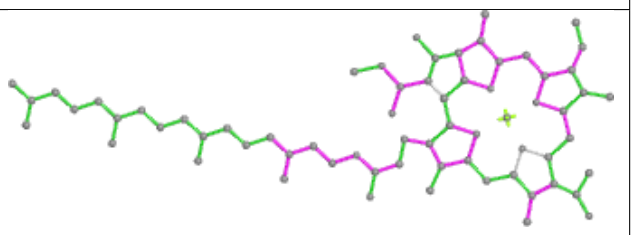


Rings

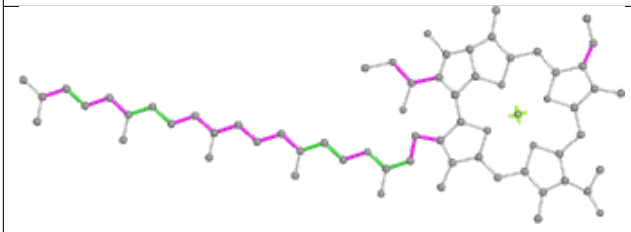
Ligand BCL Z 101



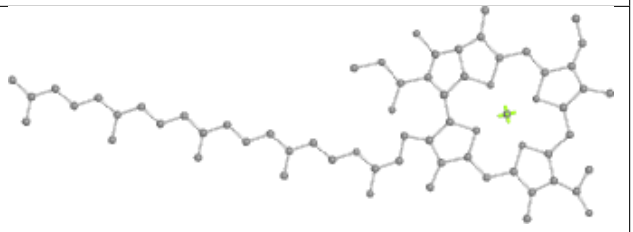
Bond lengths



Bond angles

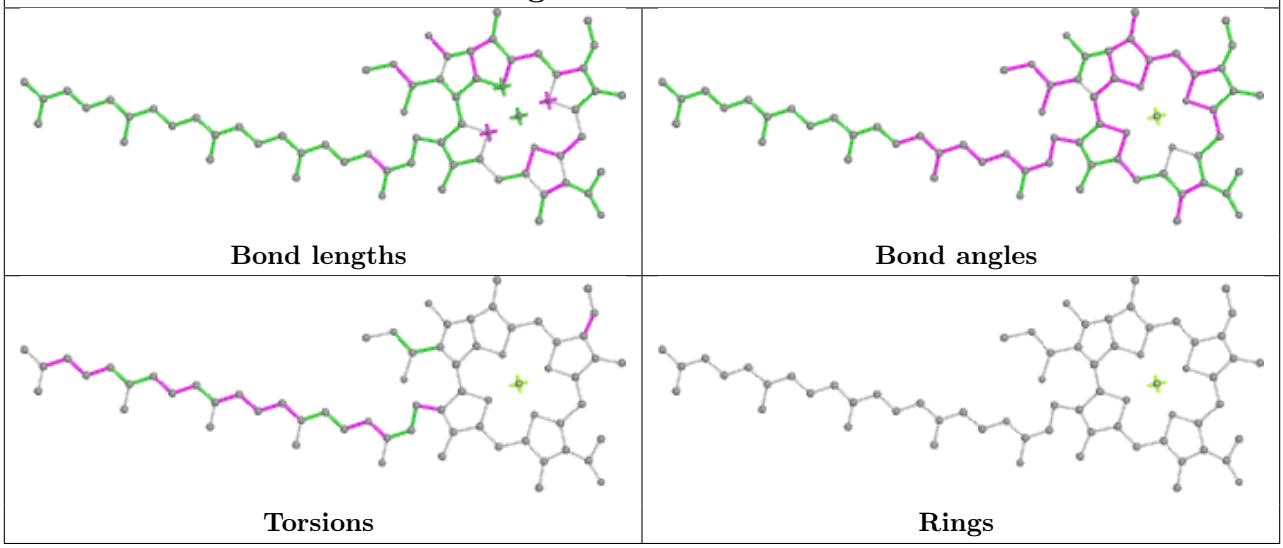


Torsions

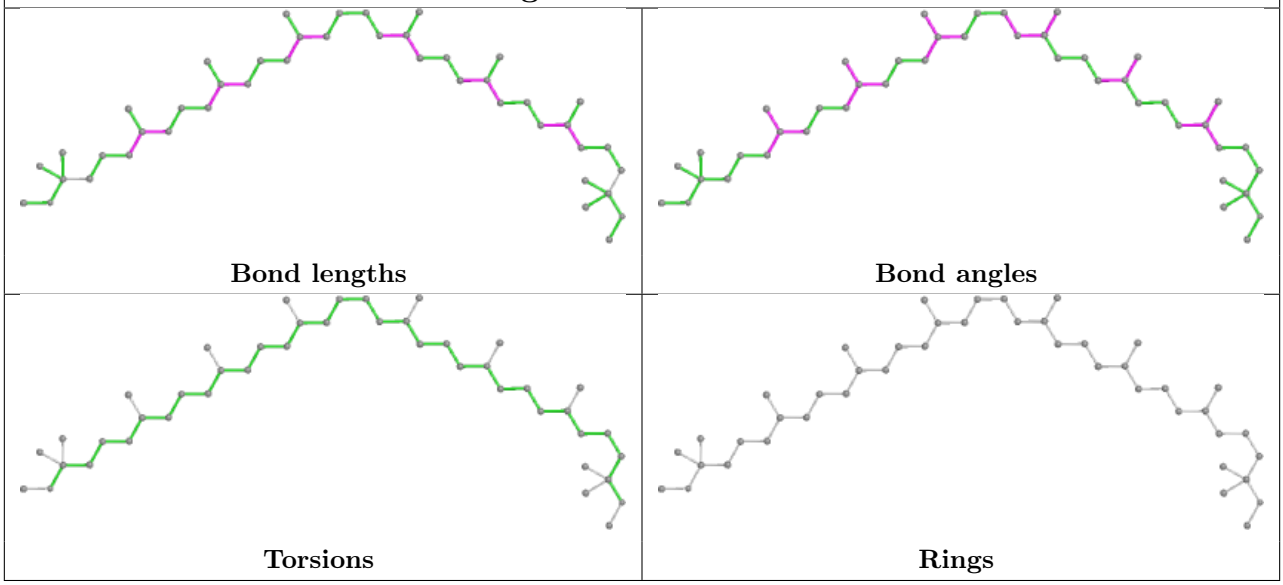


Rings

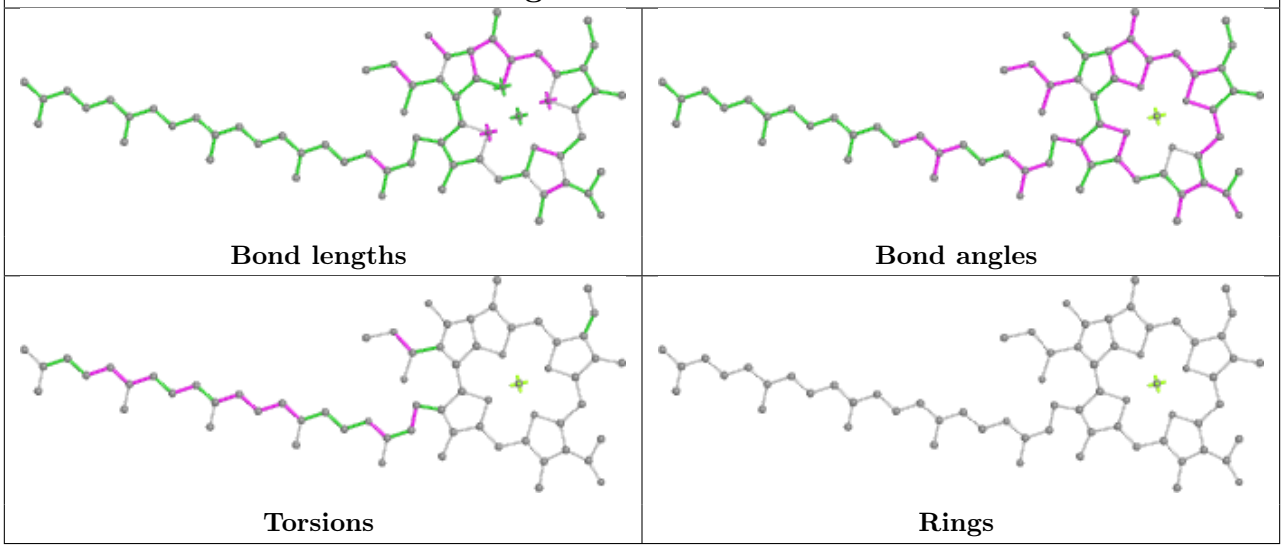
Ligand BCL F 101



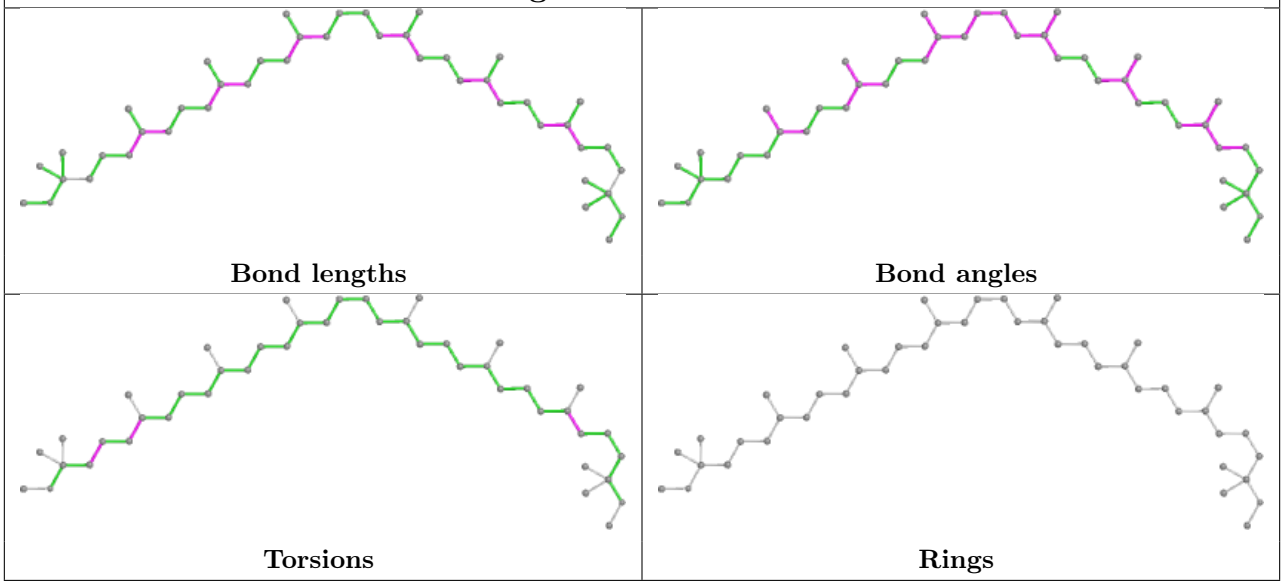
Ligand CRT M 406



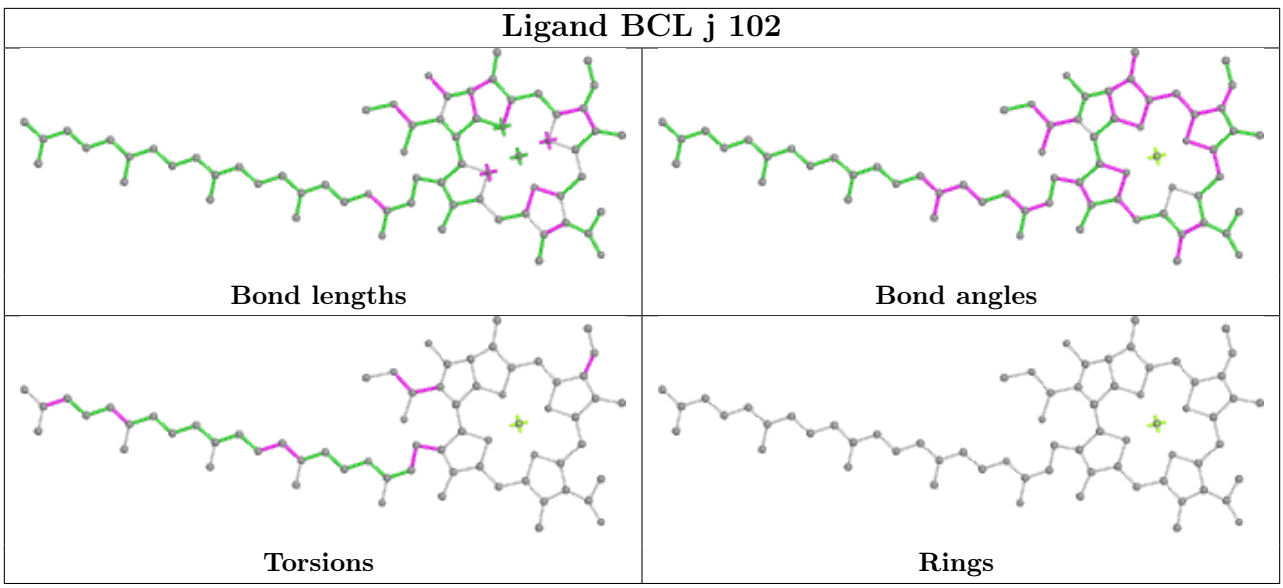
Ligand BCL N 102



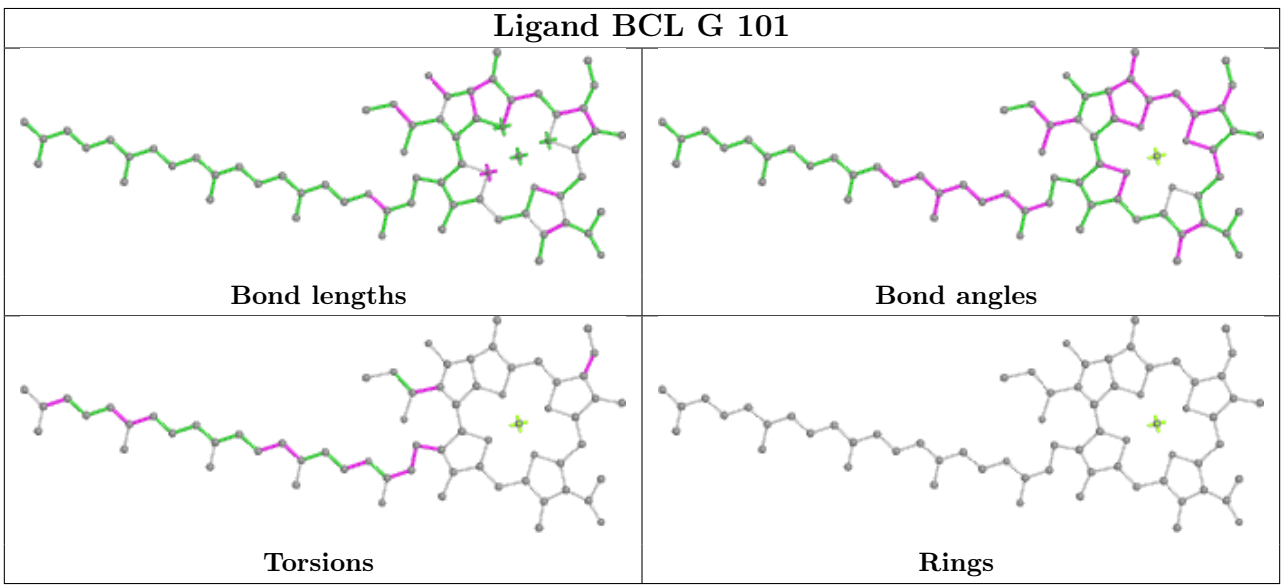
Ligand CRT a 102



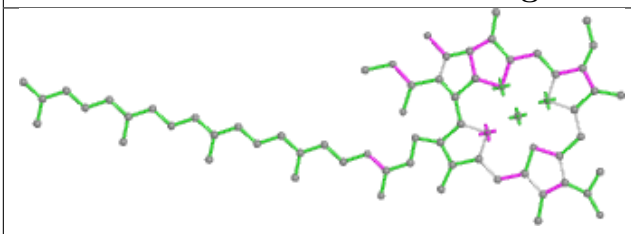
Ligand BCL j 102



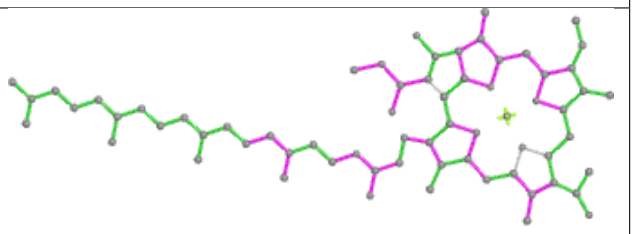
Ligand BCL G 101



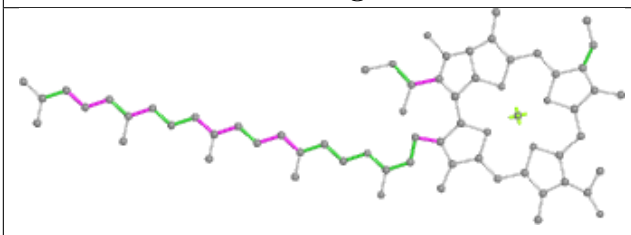
Ligand BCL M 403



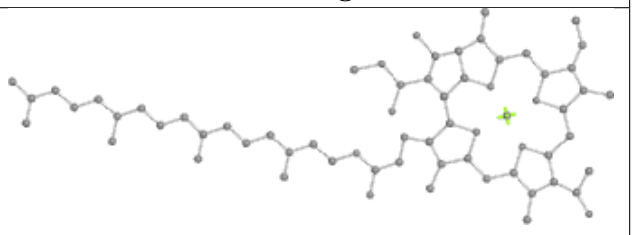
Bond lengths



Bond angles

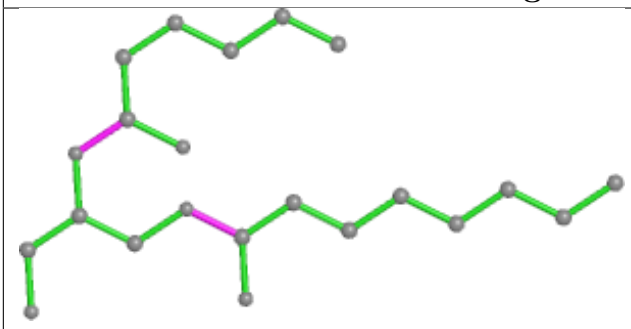


Torsions

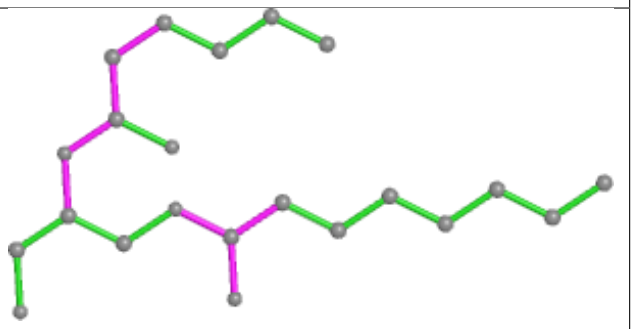


Rings

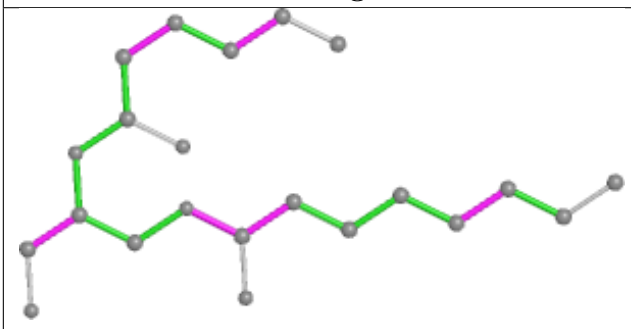
Ligand PGV L 410



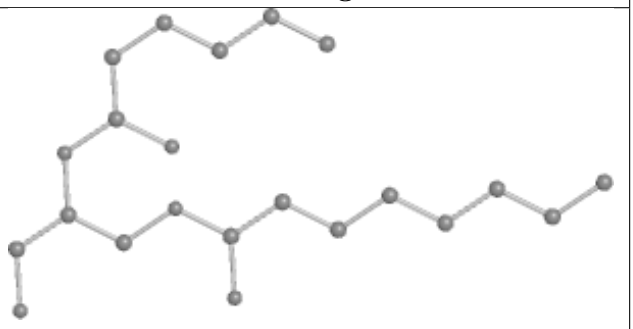
Bond lengths



Bond angles

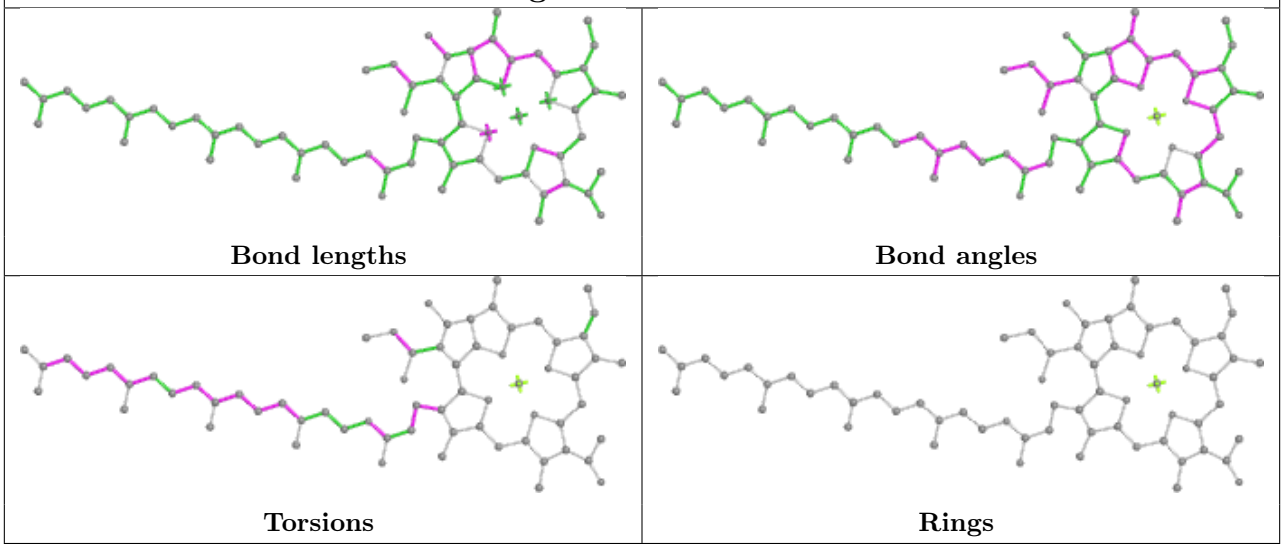


Torsions

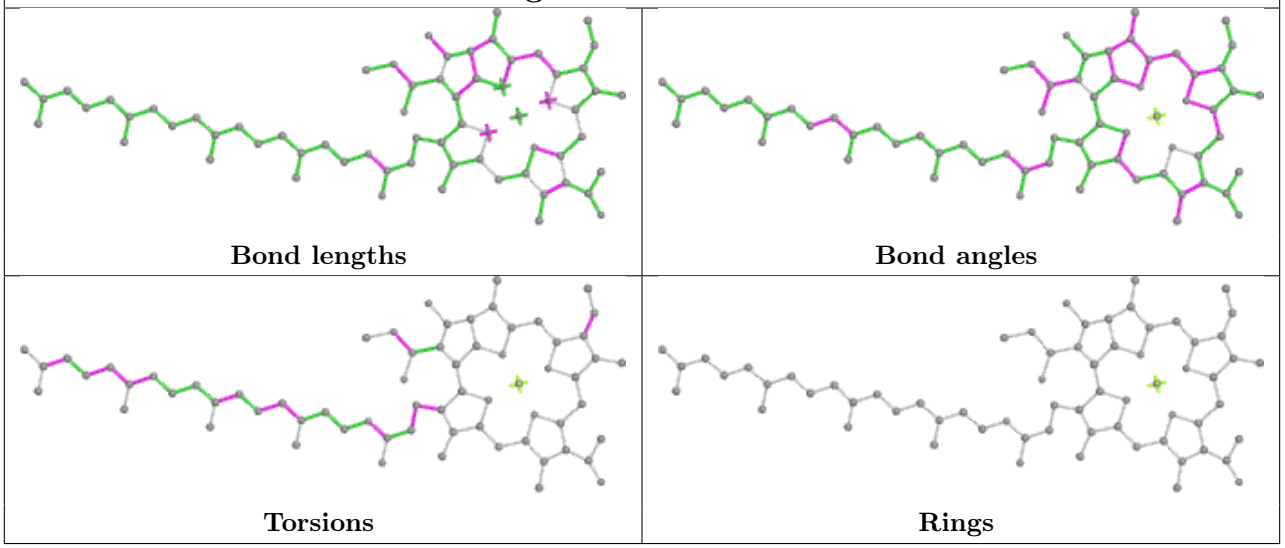


Rings

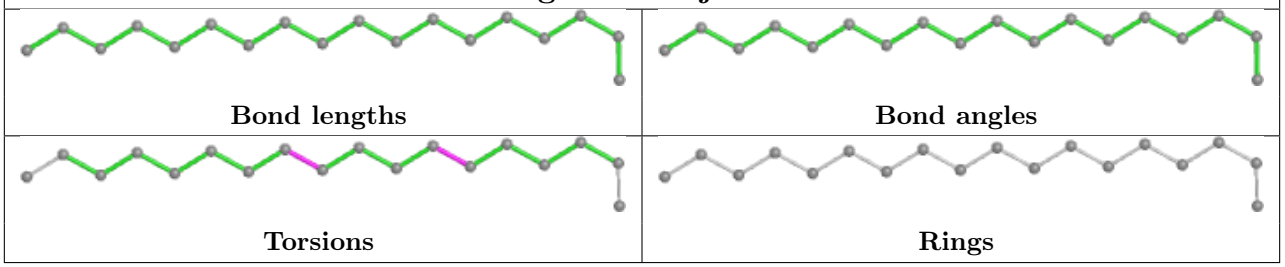
Ligand BCL d 102



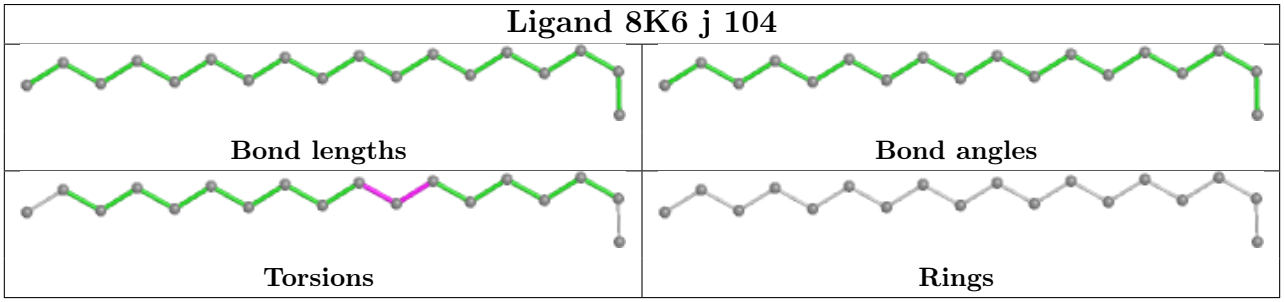
Ligand BCL X 102



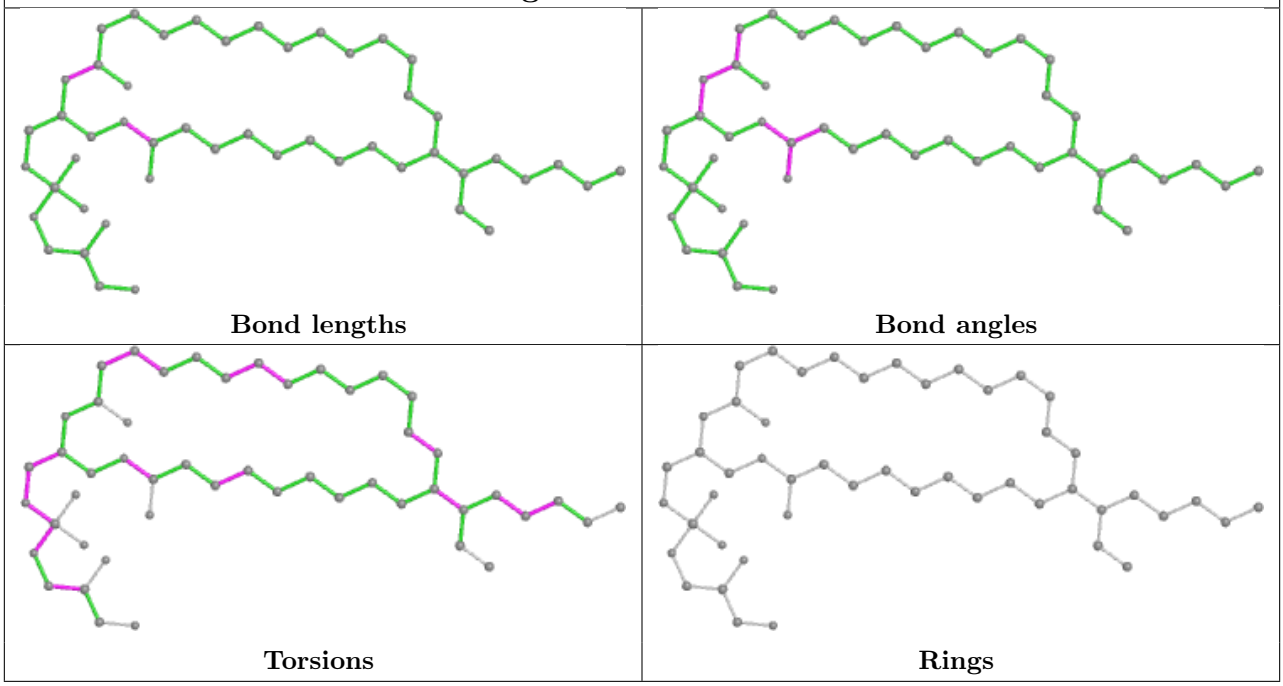
Ligand 8K6 j 105



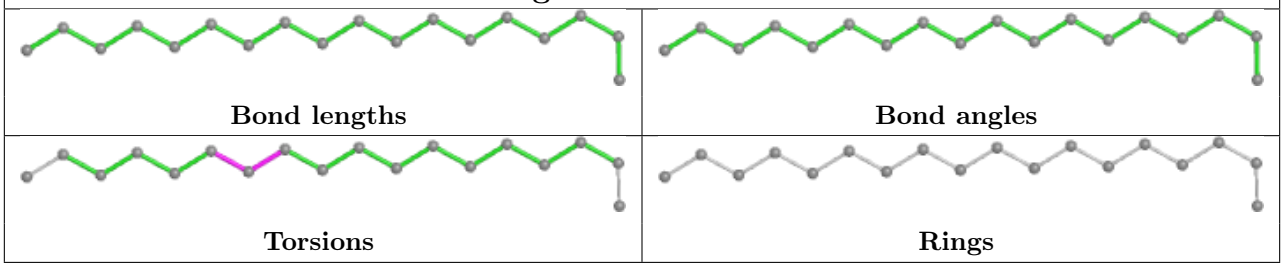
Ligand 8K6 j 104



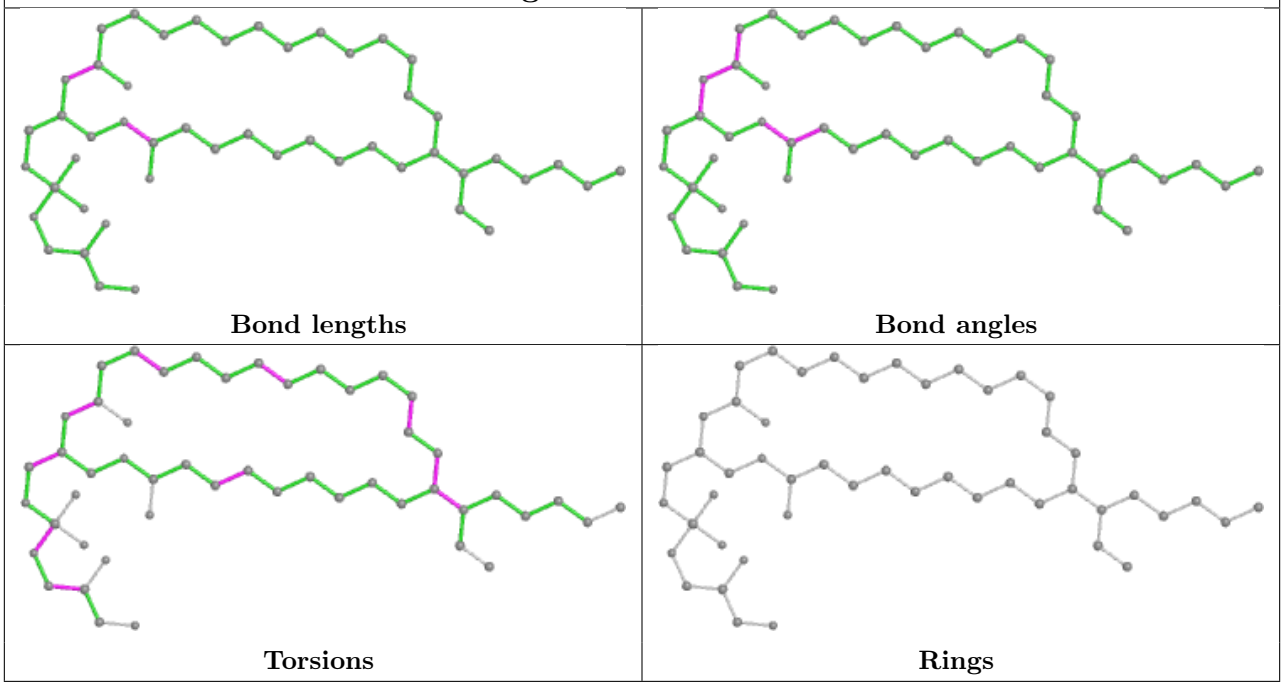
Ligand PGV H 301



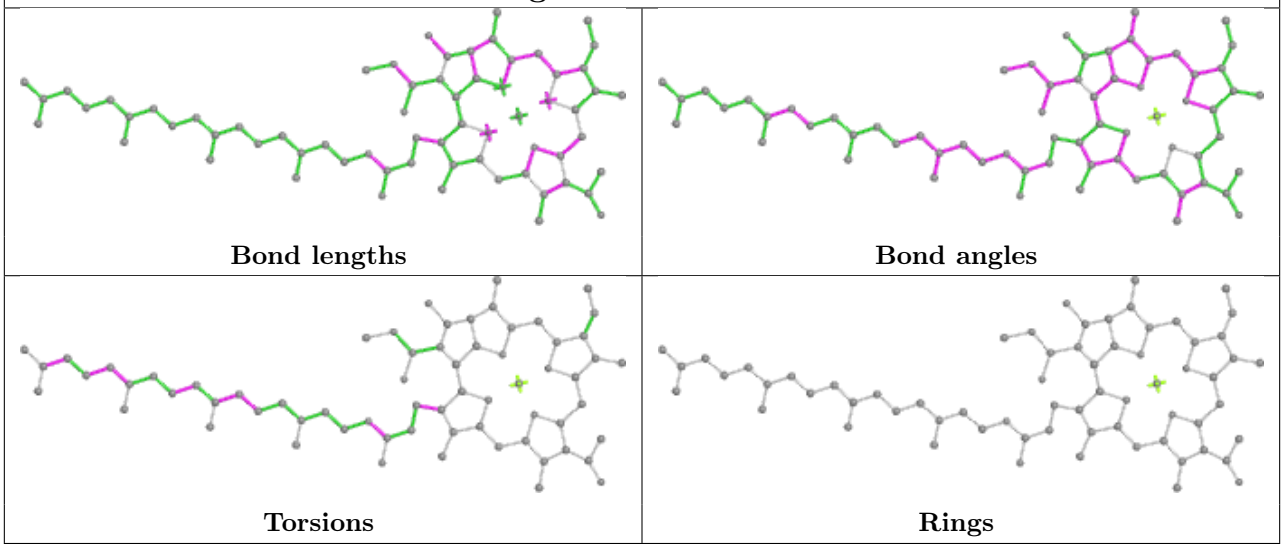
Ligand 8K6 L 406



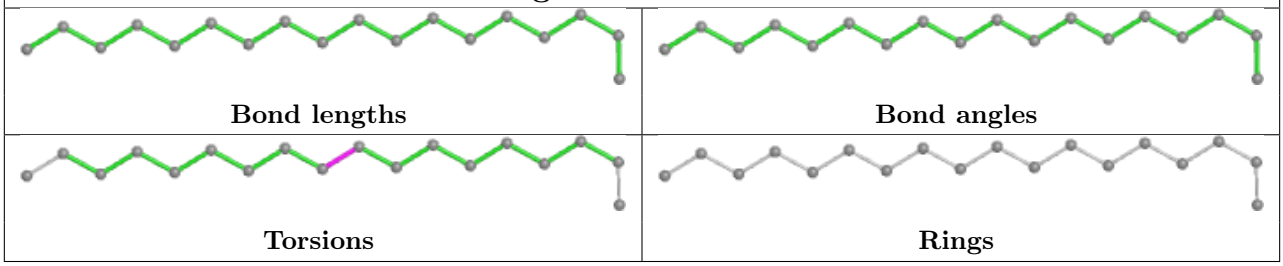
Ligand PGV H 302



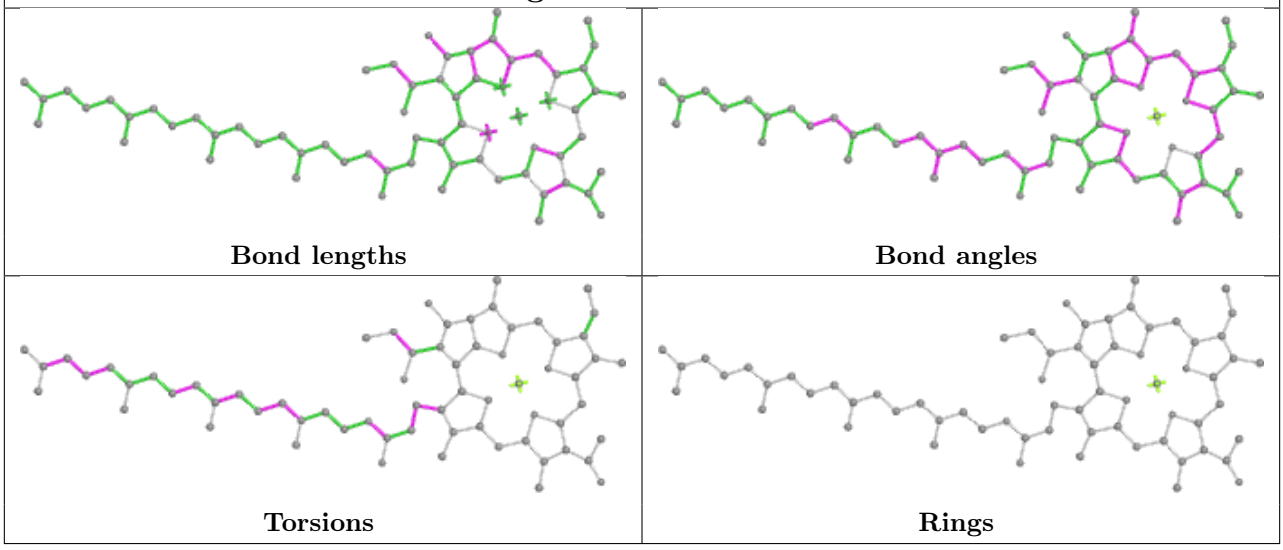
Ligand BCL S 101



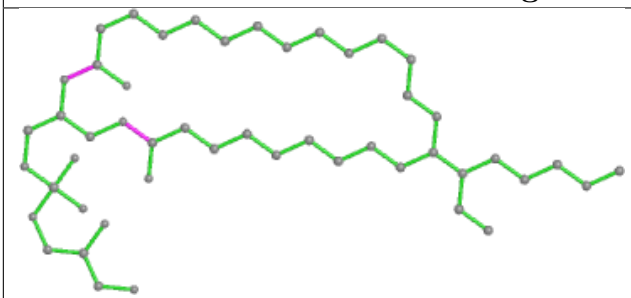
Ligand 8K6 L 407



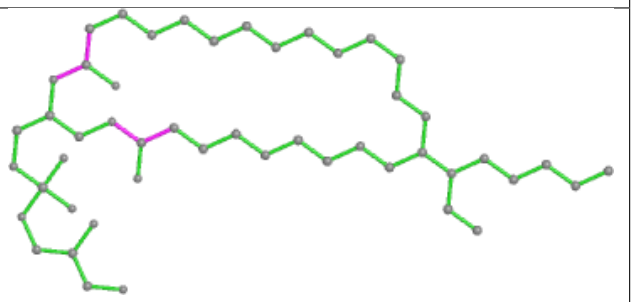
Ligand BCL T 102



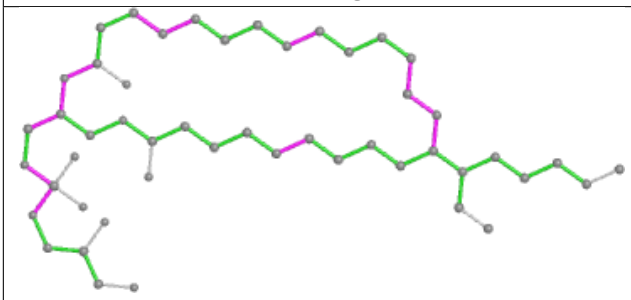
Ligand PGV R 104



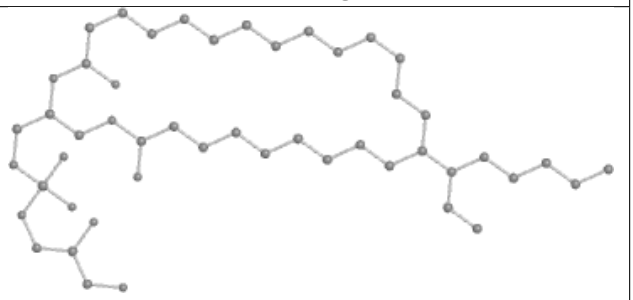
Bond lengths



Bond angles

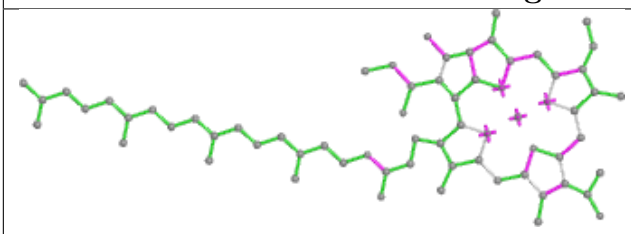


Torsions

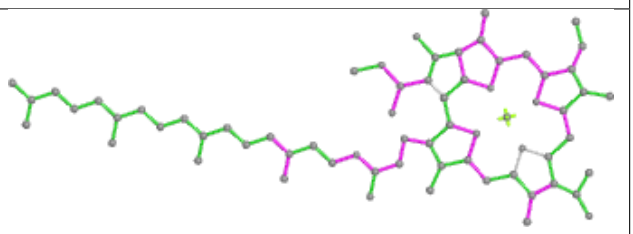


Rings

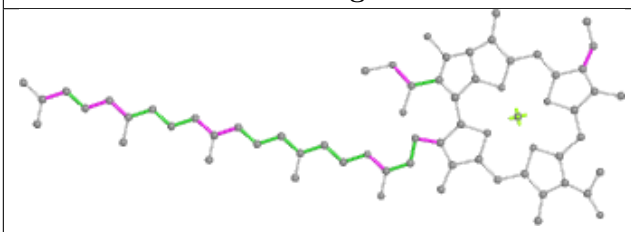
Ligand BCL U 101



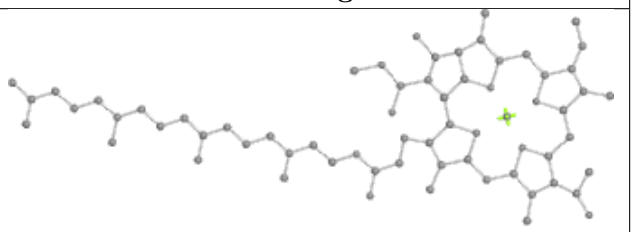
Bond lengths



Bond angles

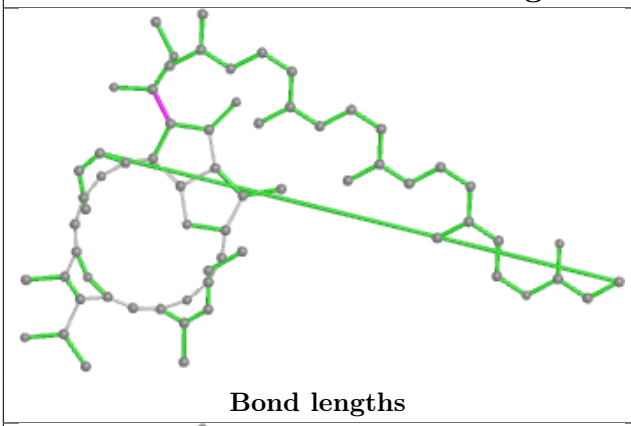


Torsions

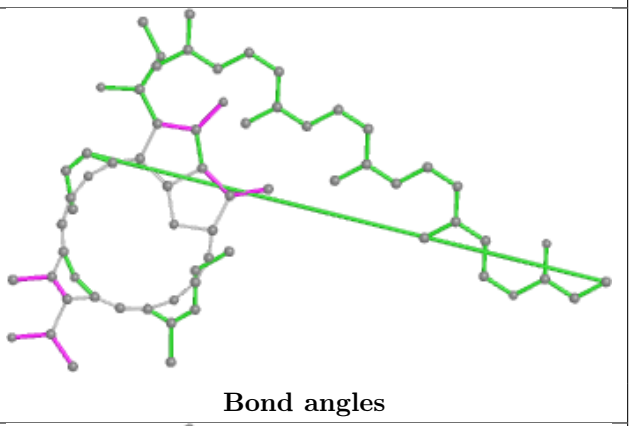


Rings

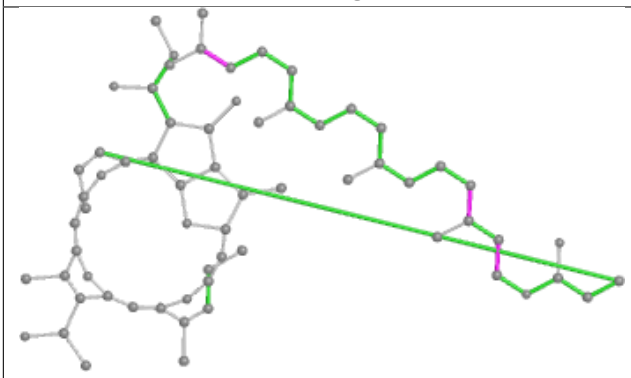
Ligand BPH L 403



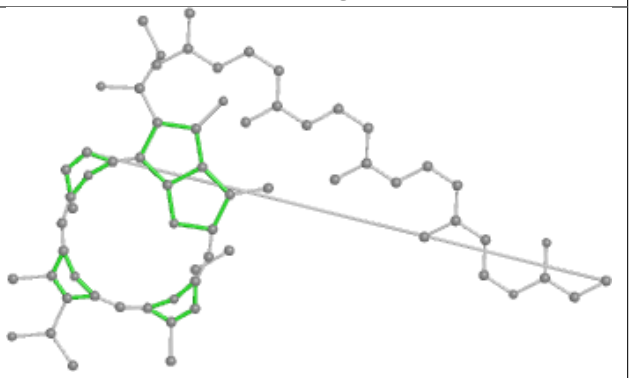
Bond lengths



Bond angles

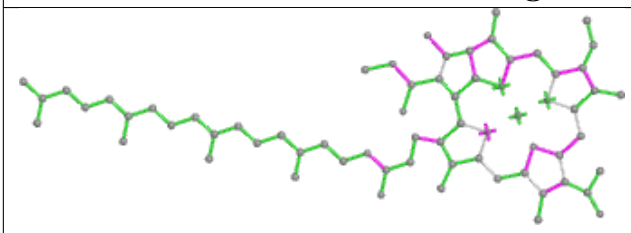


Torsions

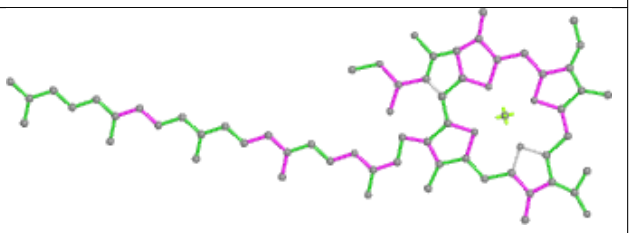


Rings

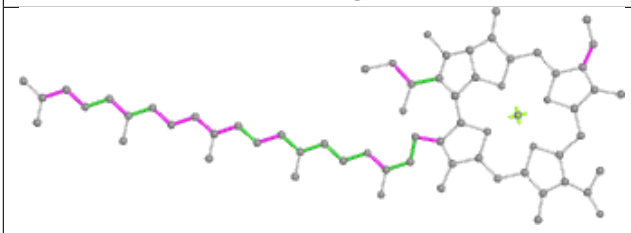
Ligand BCL D 101



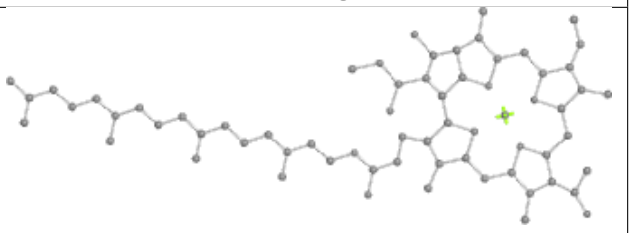
Bond lengths



Bond angles

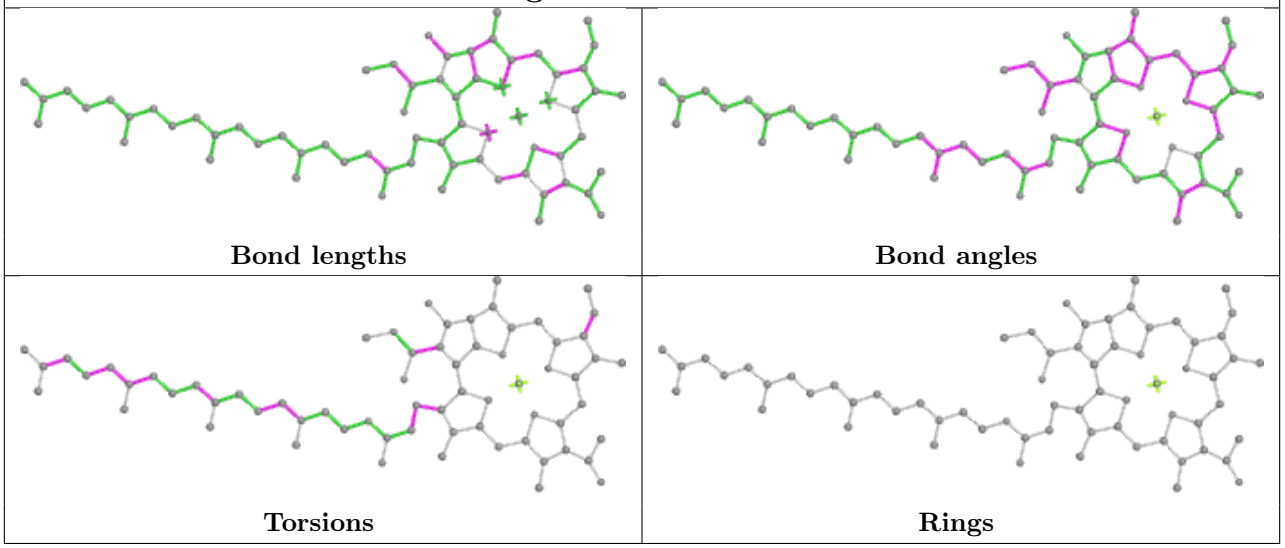


Torsions

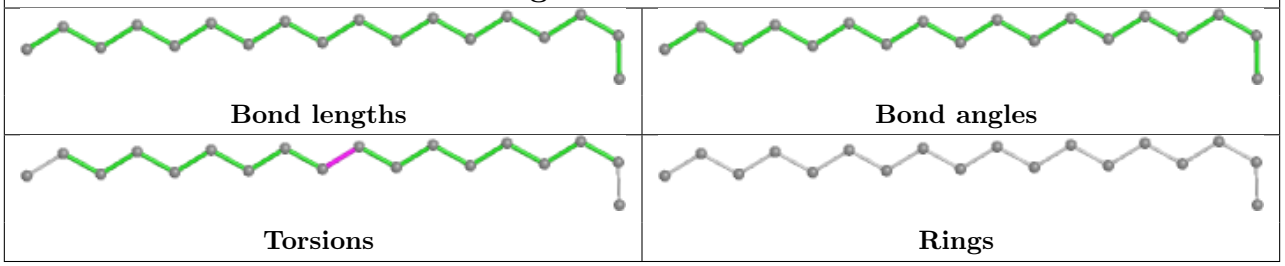


Rings

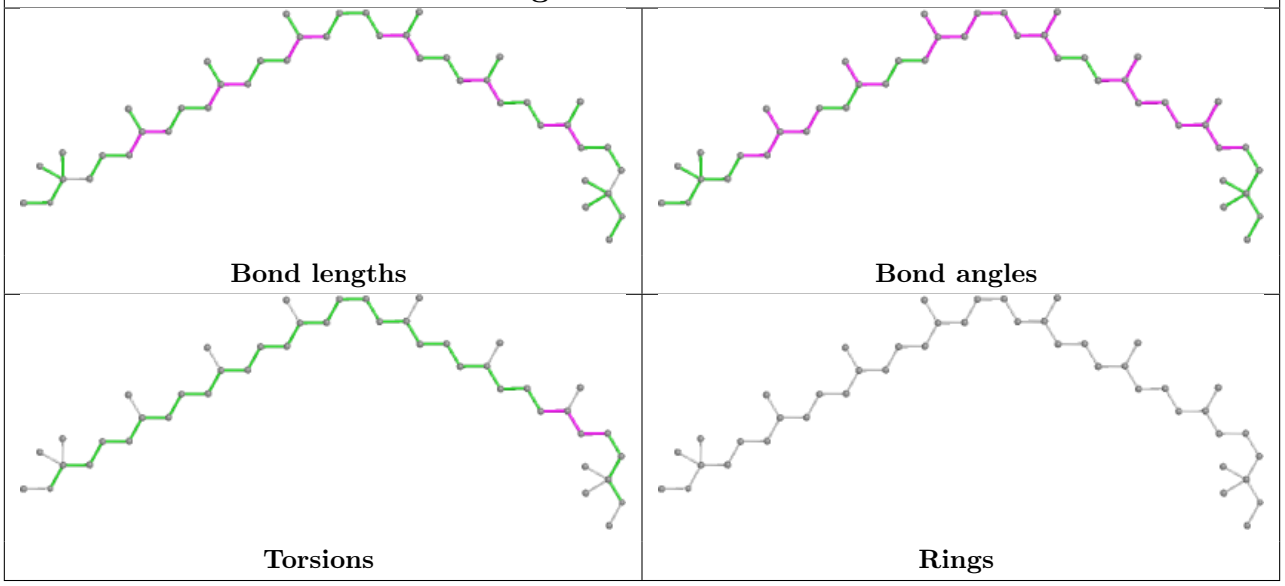
Ligand BCL R 101



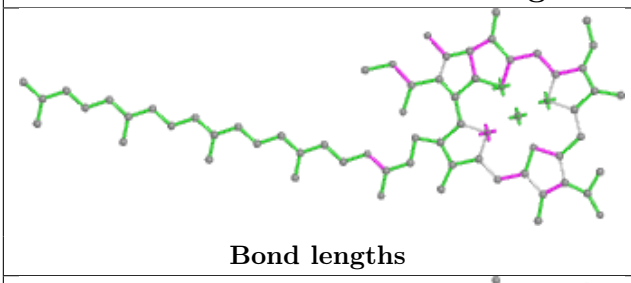
Ligand 8K6 X 103



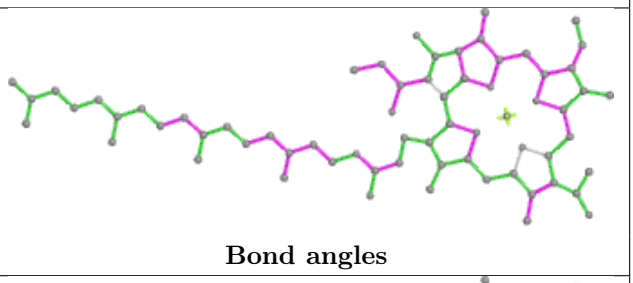
Ligand CRT I 102



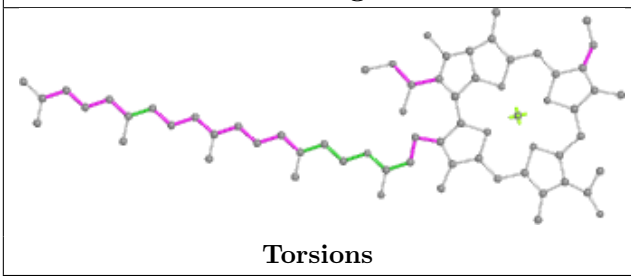
Ligand BCL b 101



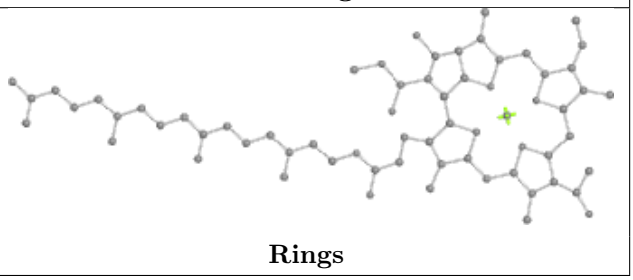
Bond lengths



Bond angles

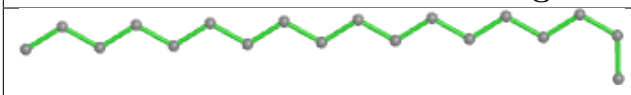


Torsions

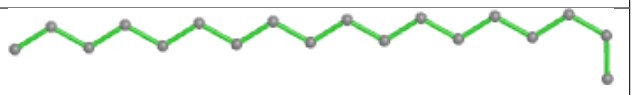


Rings

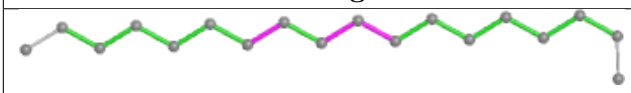
Ligand 8K6 d 103



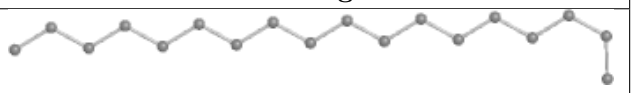
Bond lengths



Bond angles

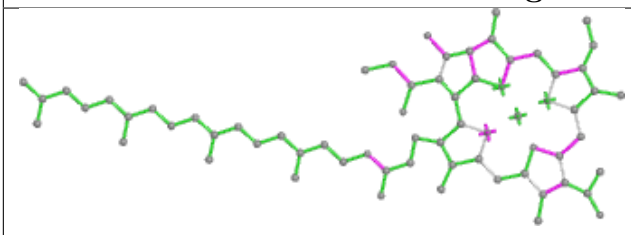


Torsions

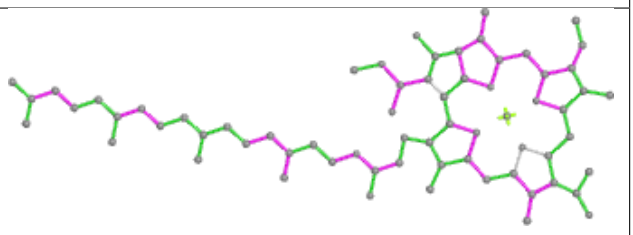


Rings

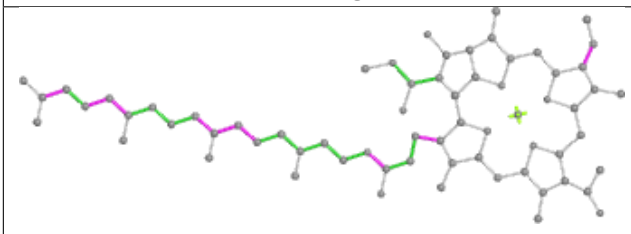
Ligand BCL B 101



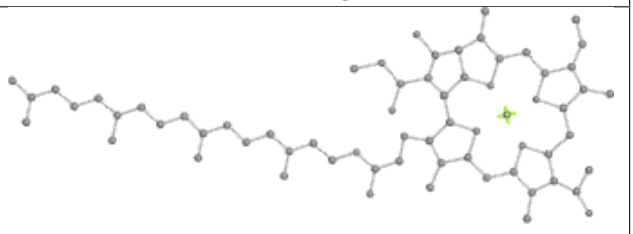
Bond lengths



Bond angles

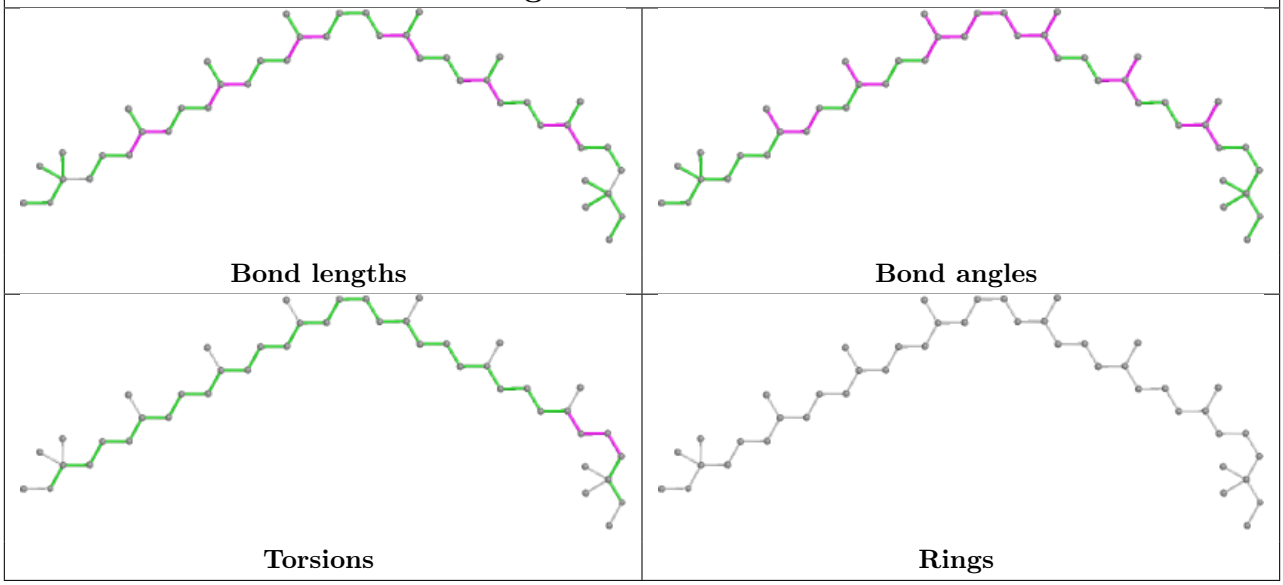


Torsions

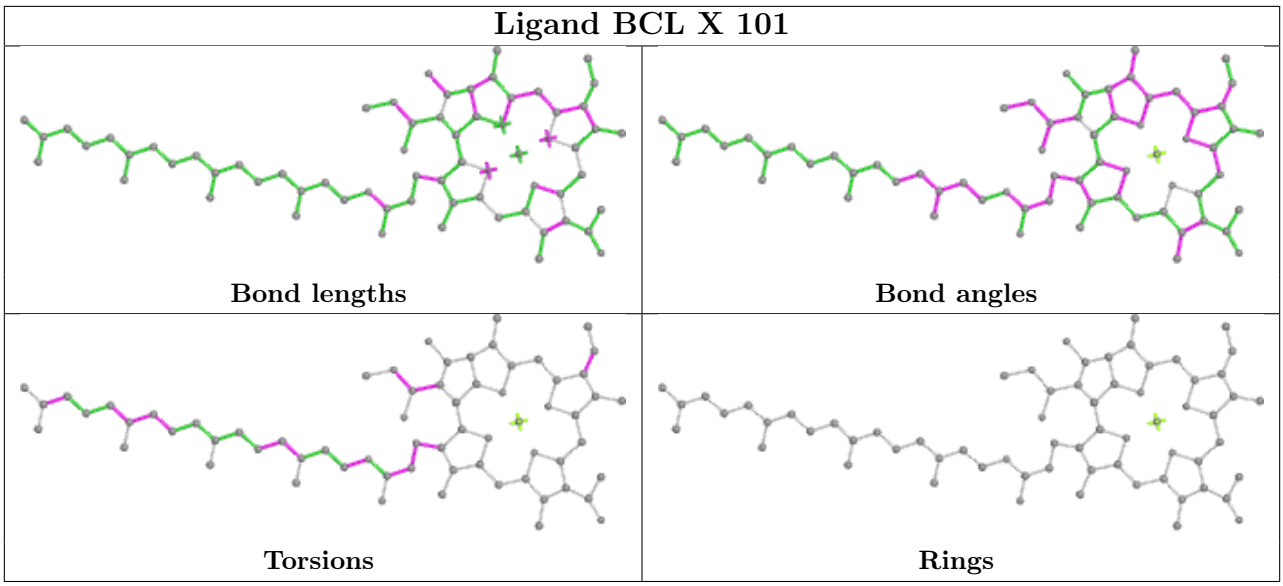


Rings

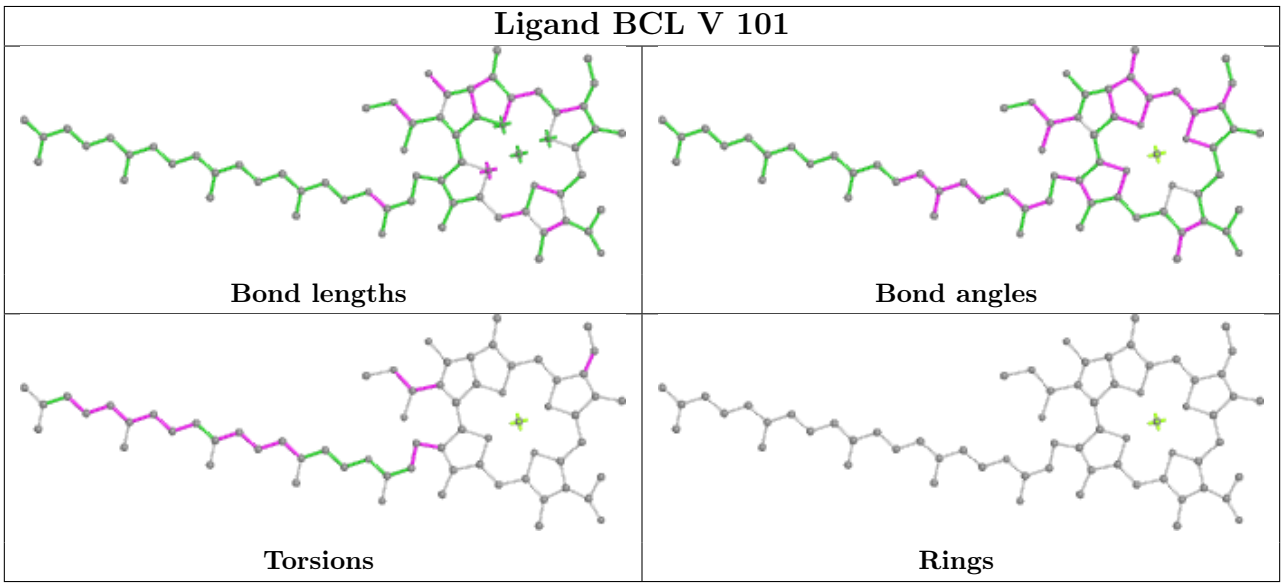
Ligand CRT R 103



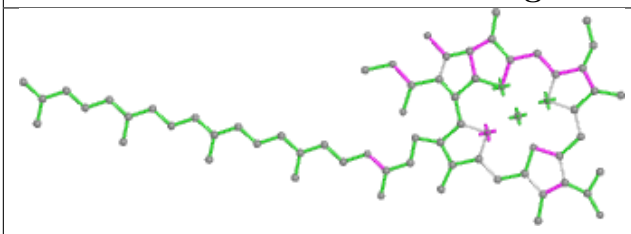
Ligand BCL X 101



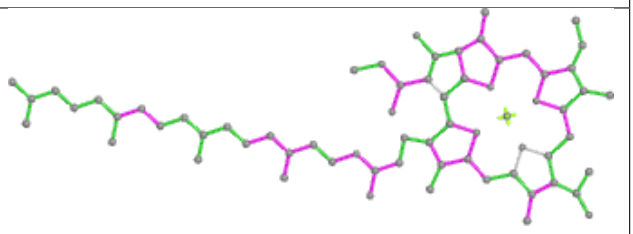
Ligand BCL V 101



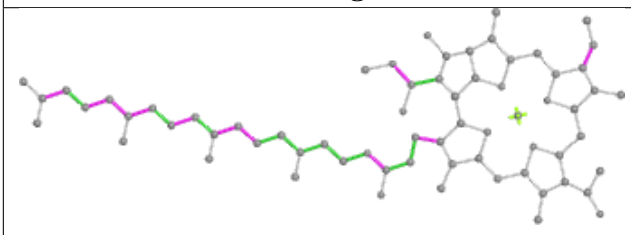
Ligand BCL Y 101



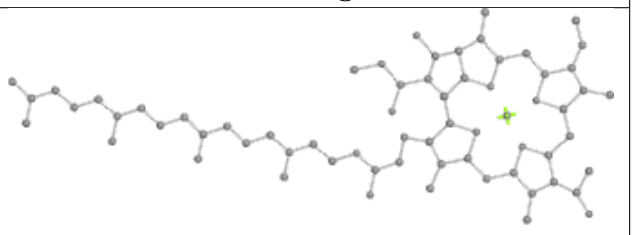
Bond lengths



Bond angles

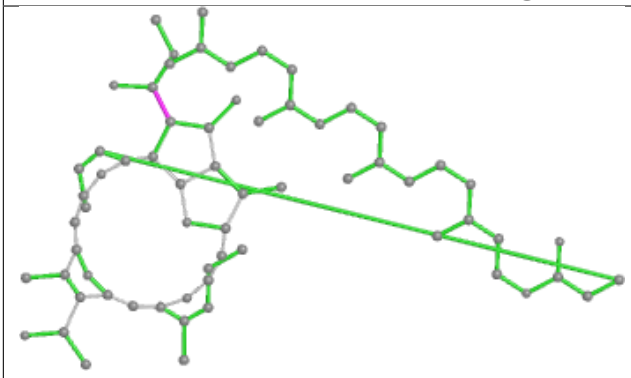


Torsions

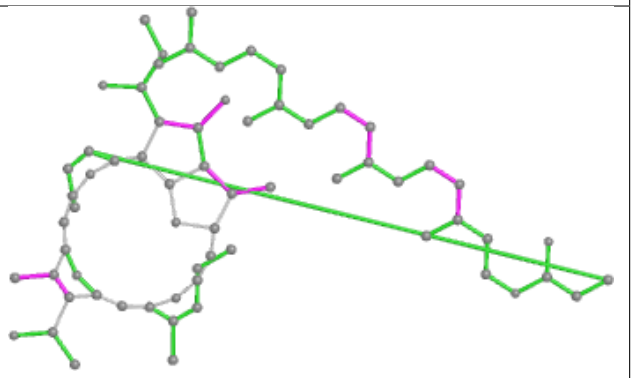


Rings

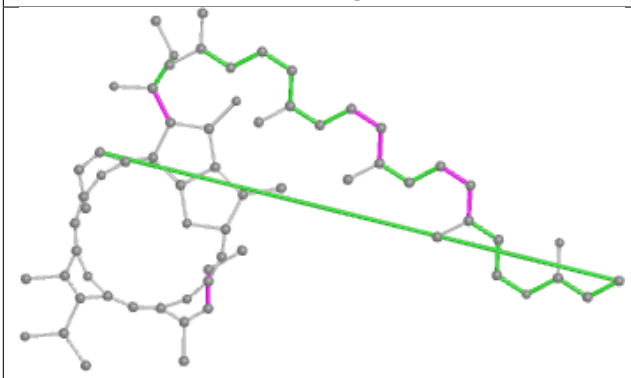
Ligand BPH M 404



Bond lengths



Bond angles



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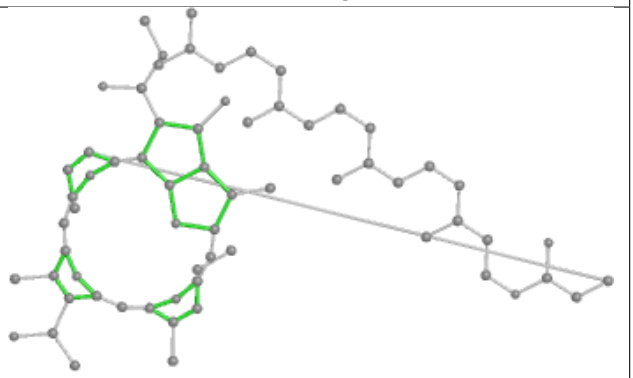
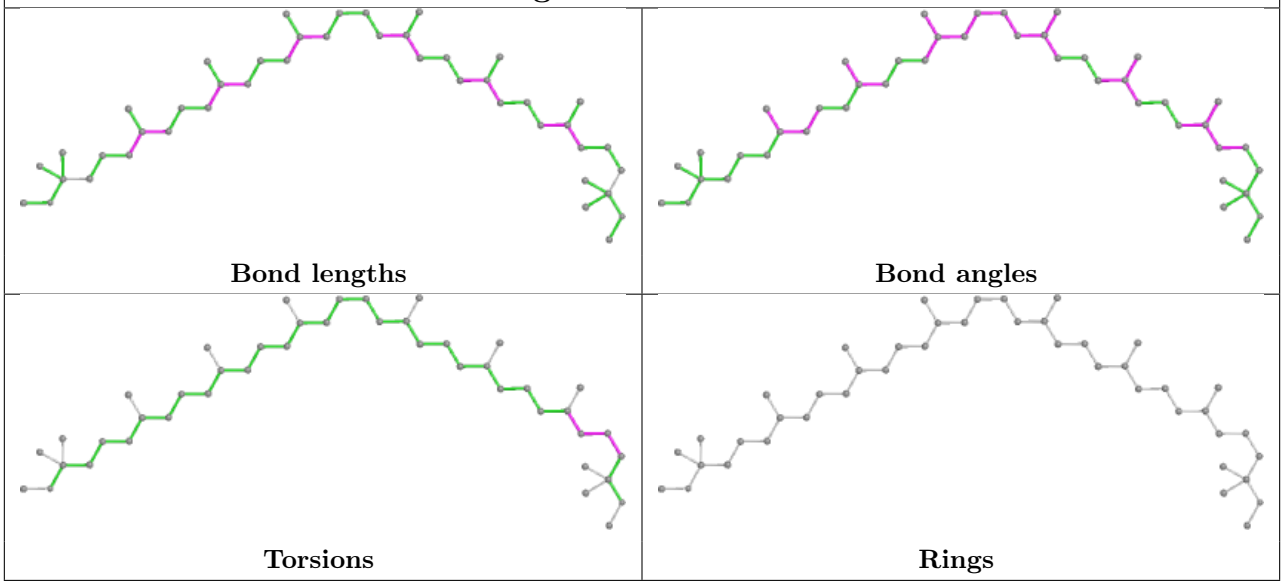
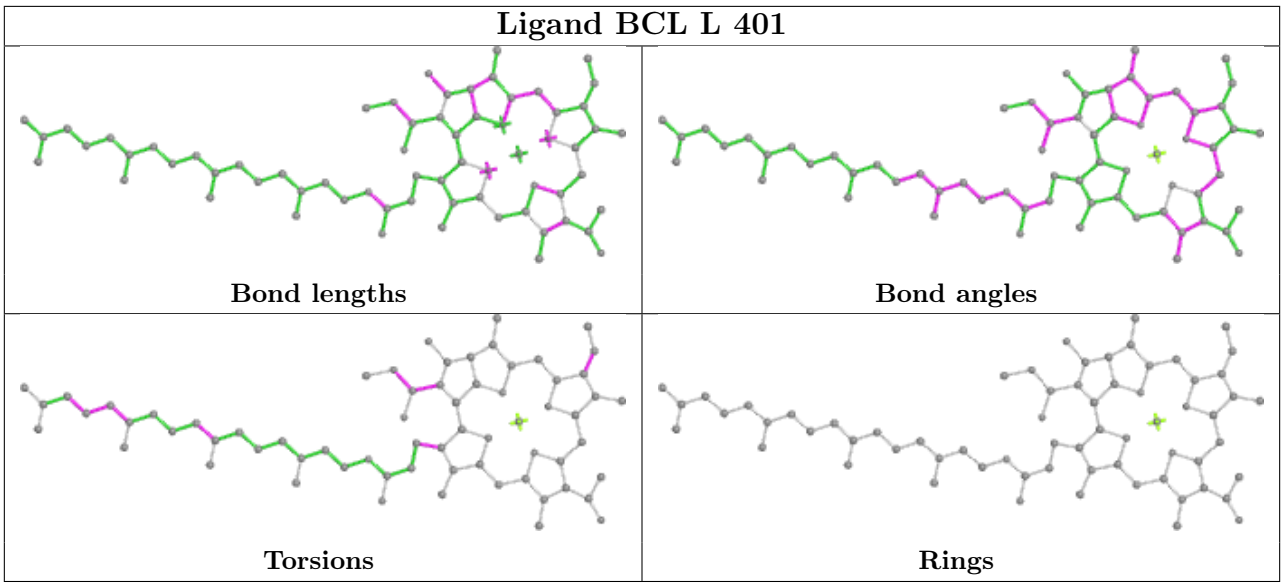


Rings

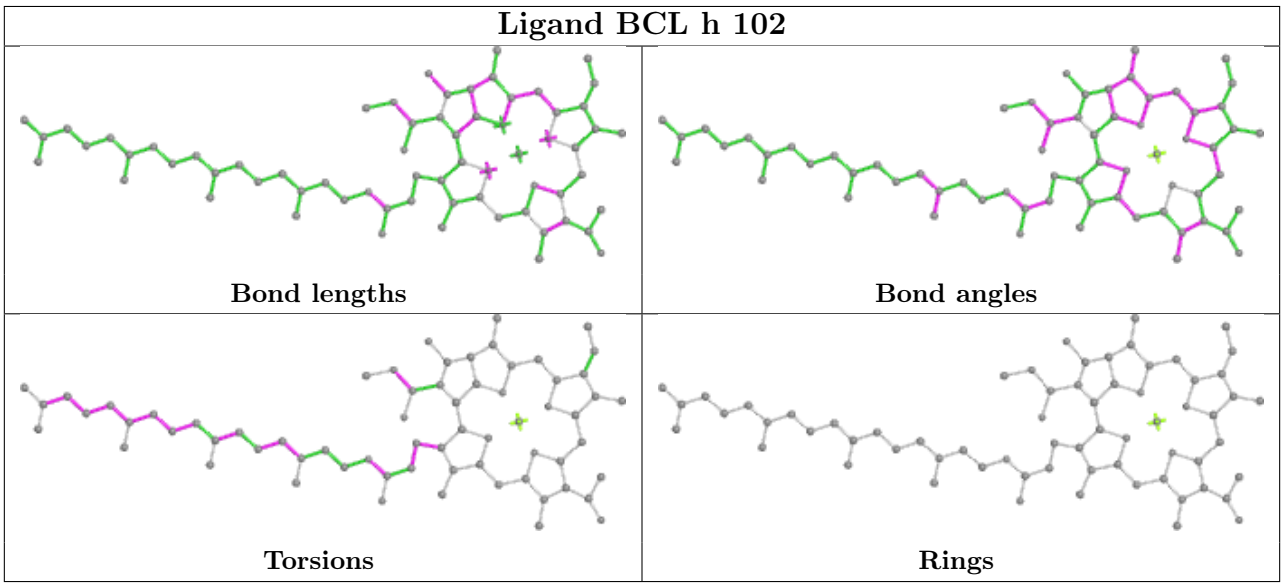
Ligand CRT i 102



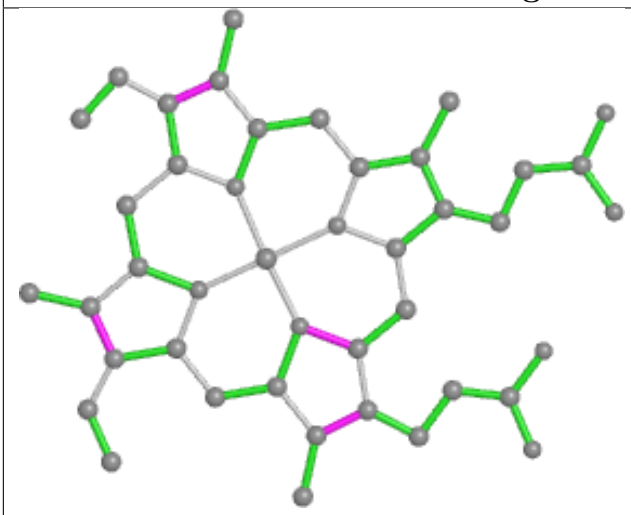
Ligand BCL L 401



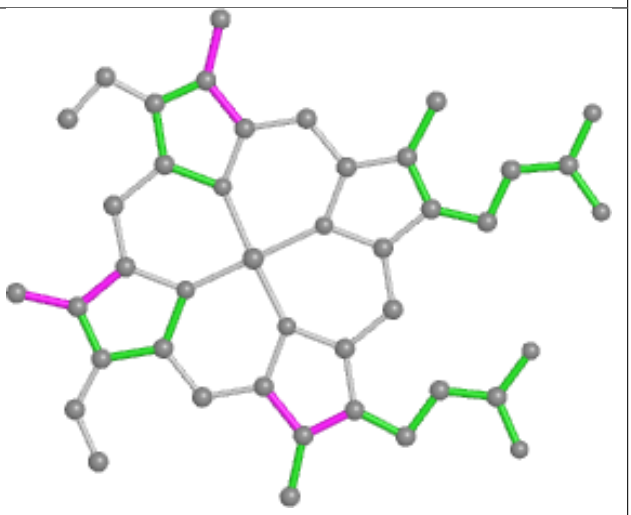
Ligand BCL h 102



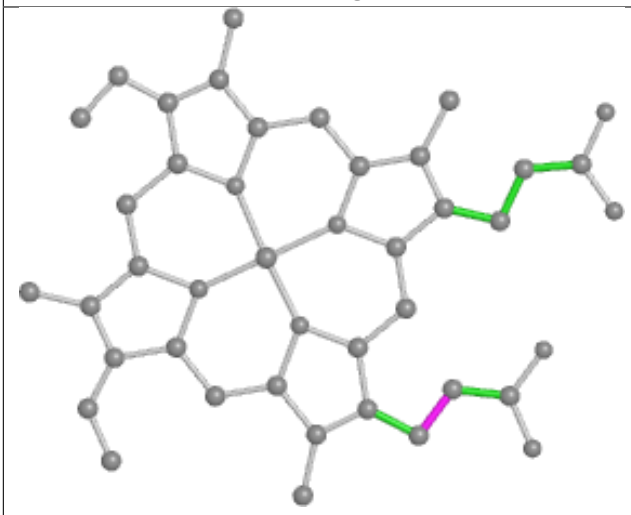
Ligand HEC C 502



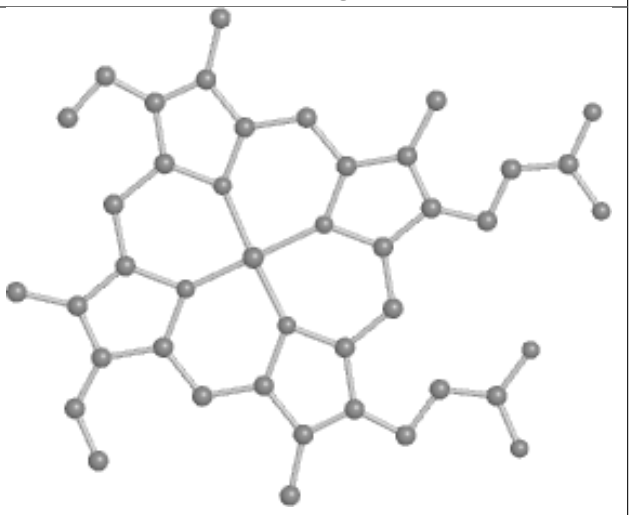
Bond lengths



Bond angles

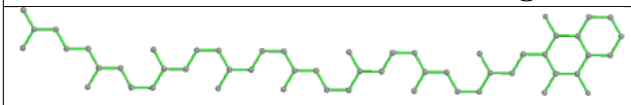


Torsions

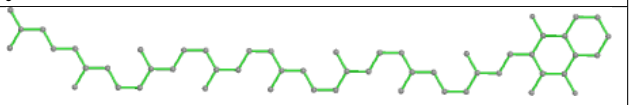


Rings

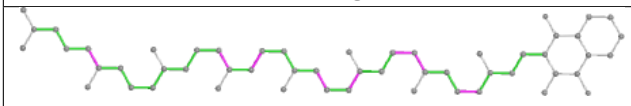
Ligand MQ8 M 405



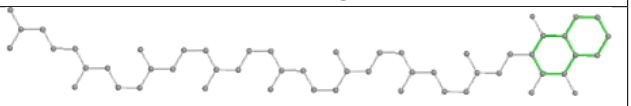
Bond lengths



Bond angles

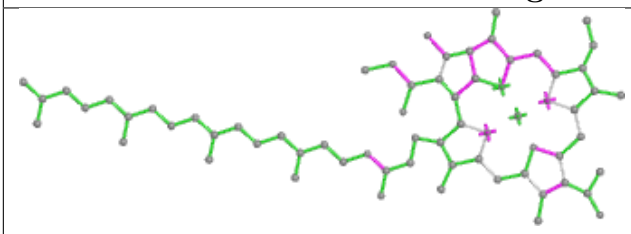


Torsions

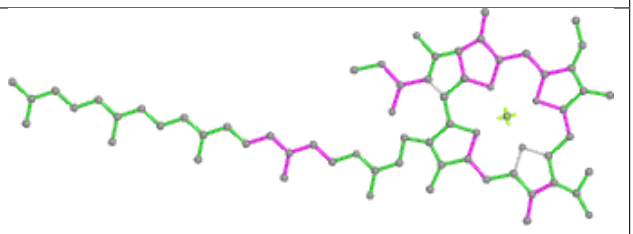


Rings

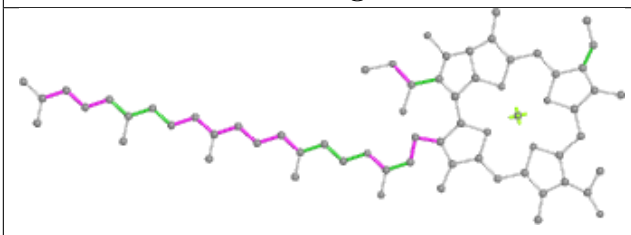
Ligand BCL E 102



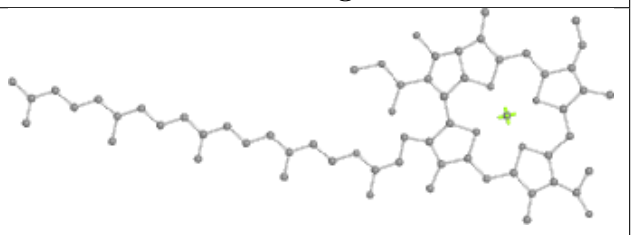
Bond lengths



Bond angles

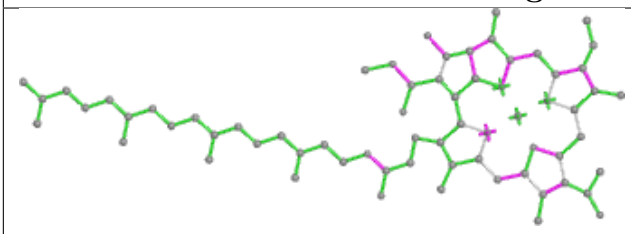


Torsions

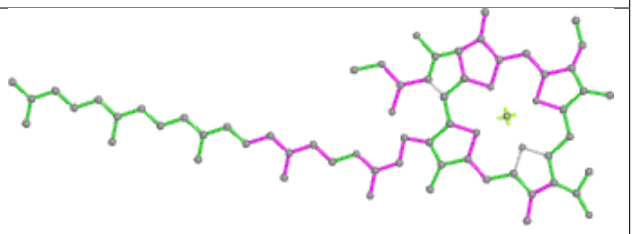


Rings

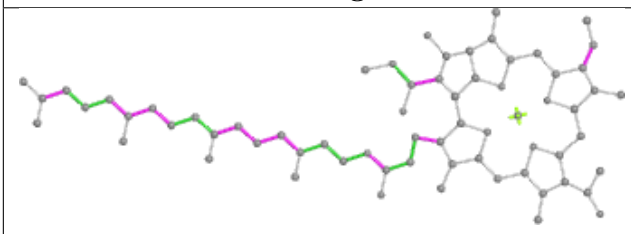
Ligand BCL P 101



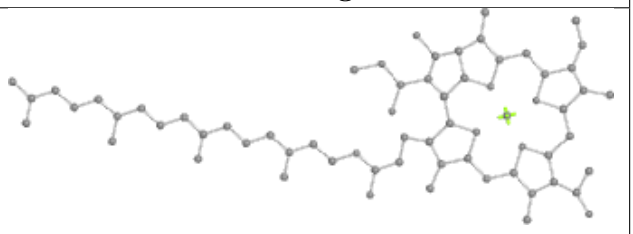
Bond lengths



Bond angles

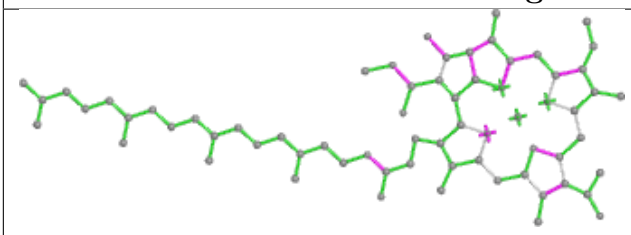


Torsions

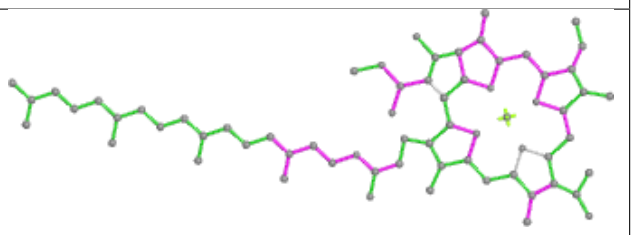


Rings

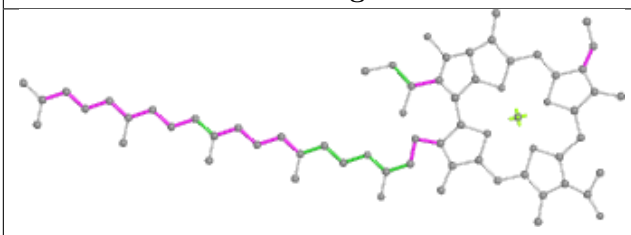
Ligand BCL T 101



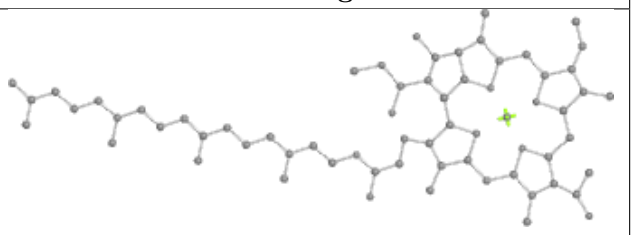
Bond lengths



Bond angles

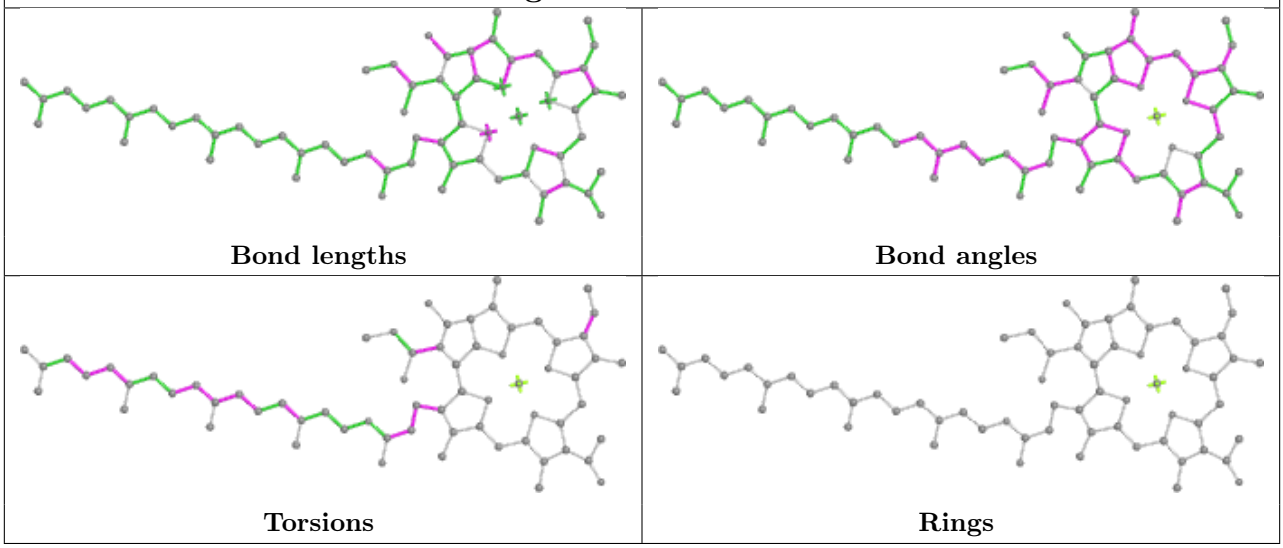


Torsions

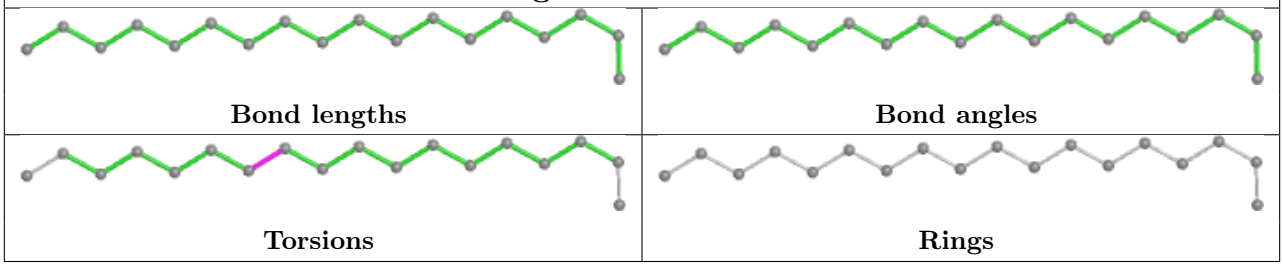


Rings

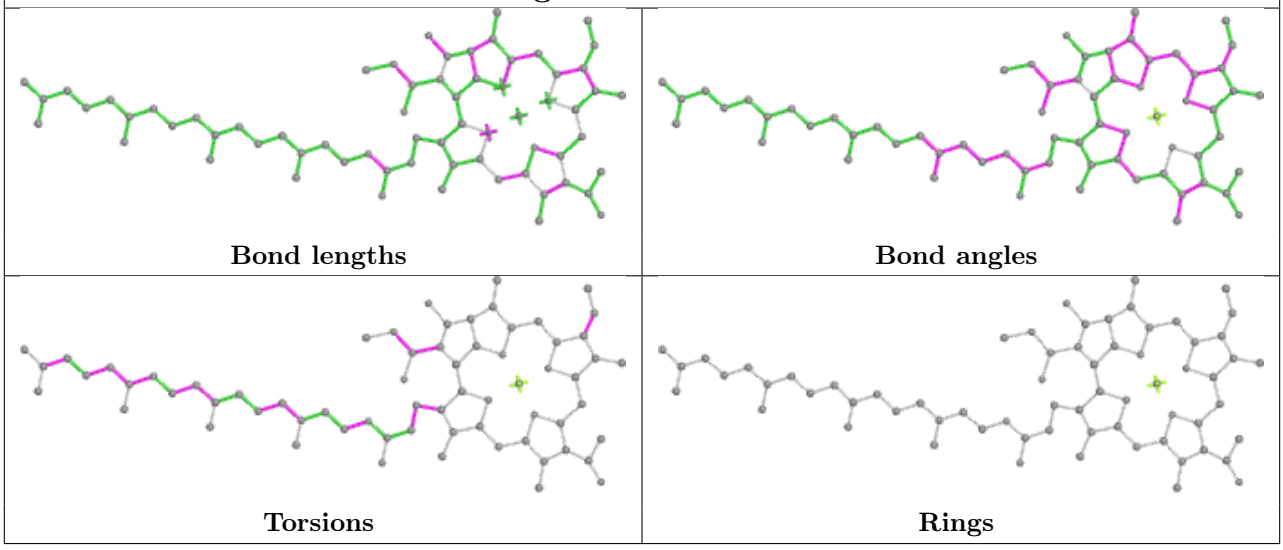
Ligand BCL N 101



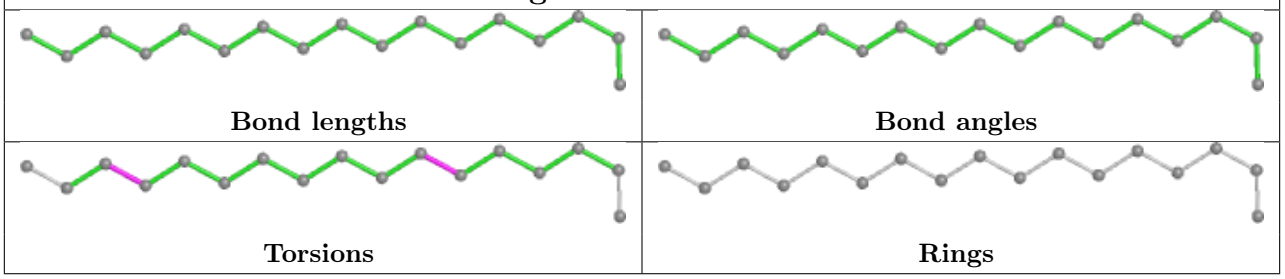
Ligand 8K6 L 405



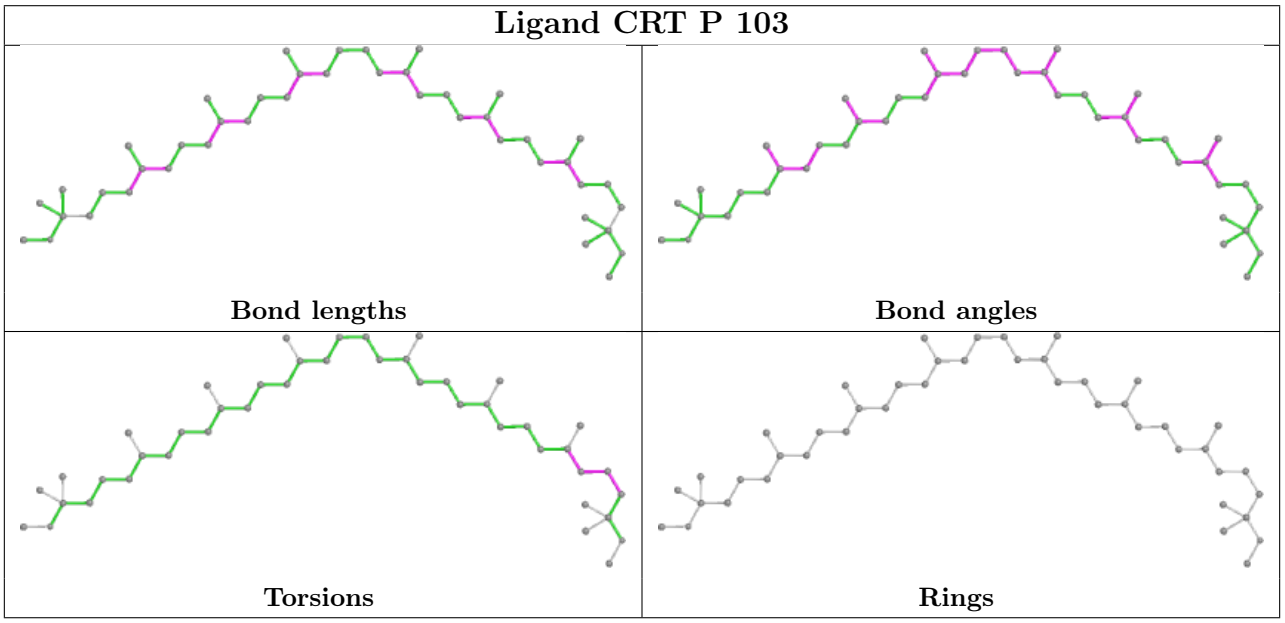
Ligand BCL f 101



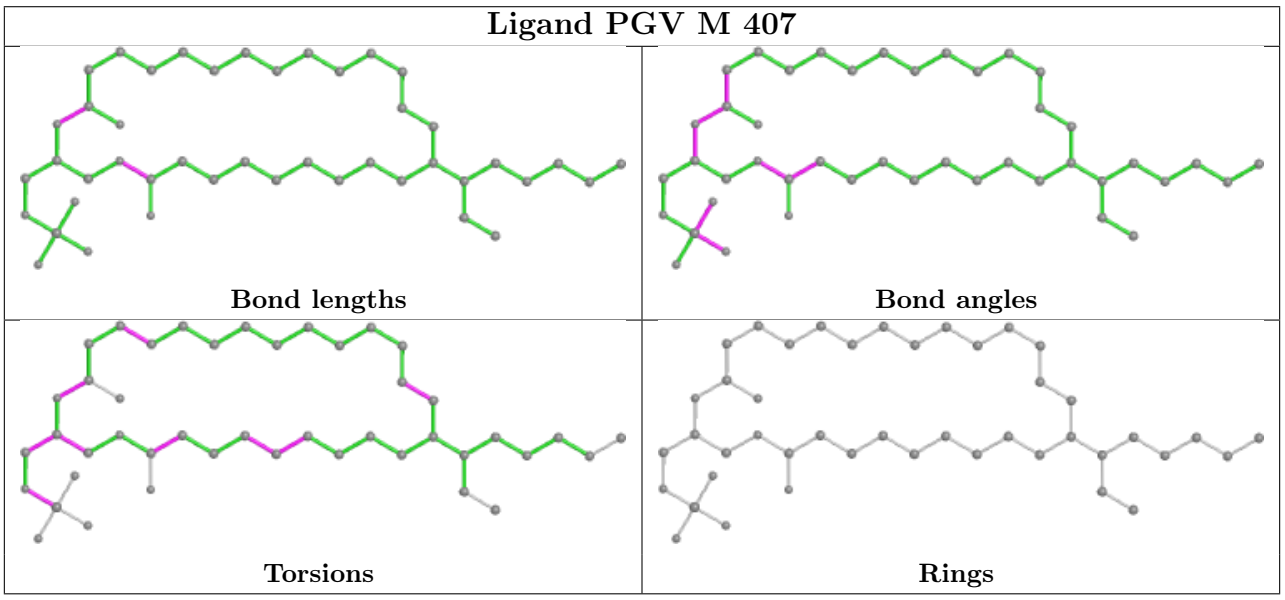
Ligand 8K6 H 303



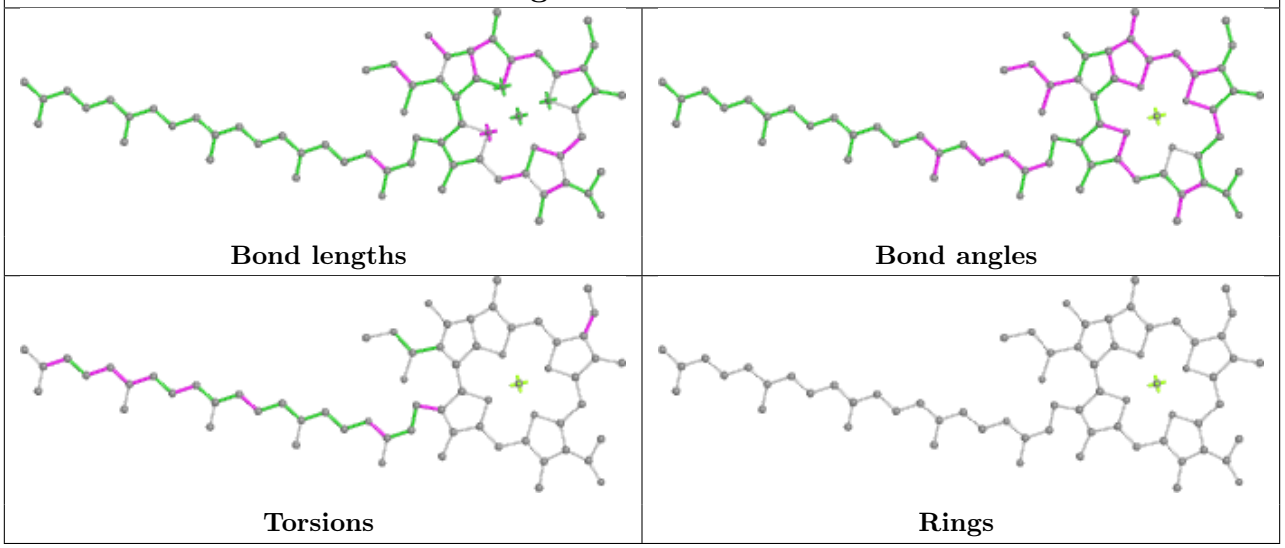
Ligand CRT P 103



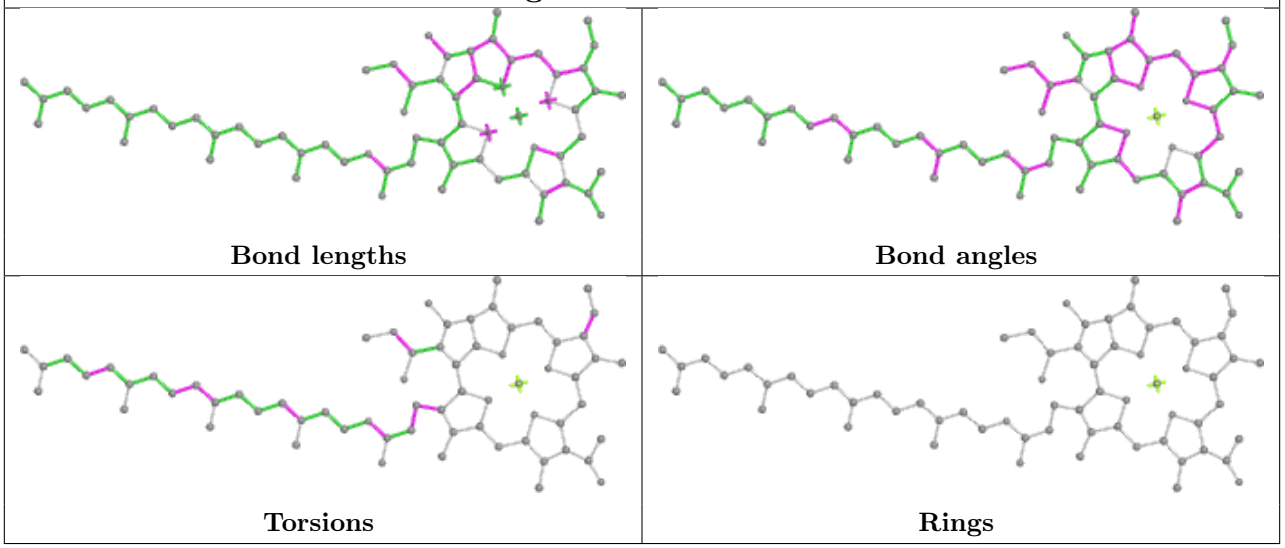
Ligand PGV M 407



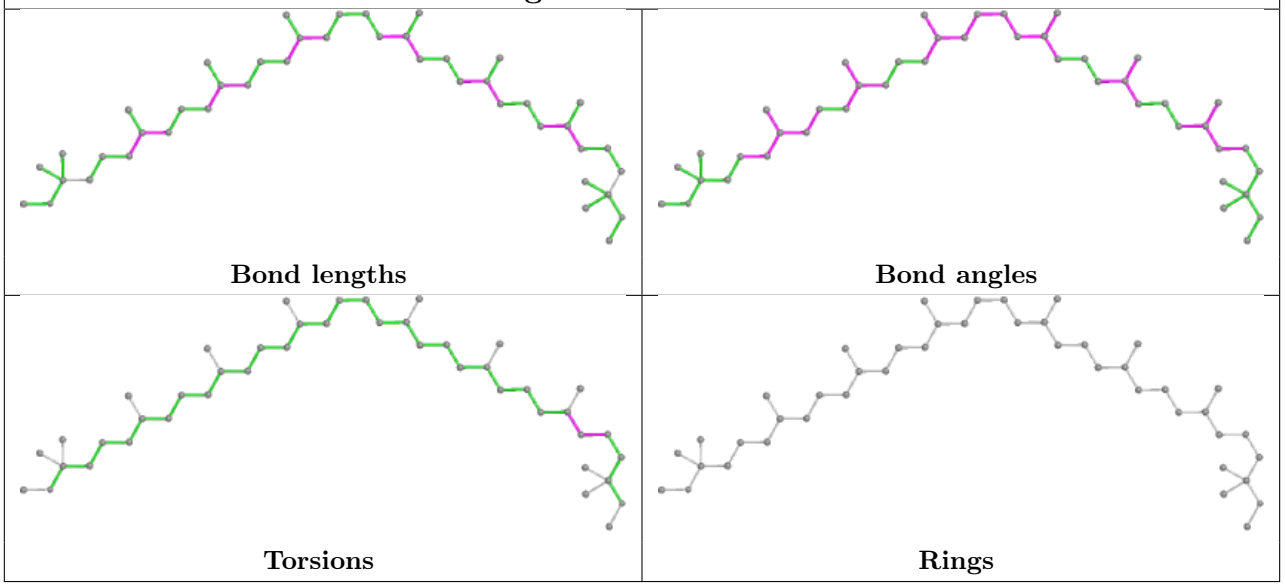
Ligand BCL a 101



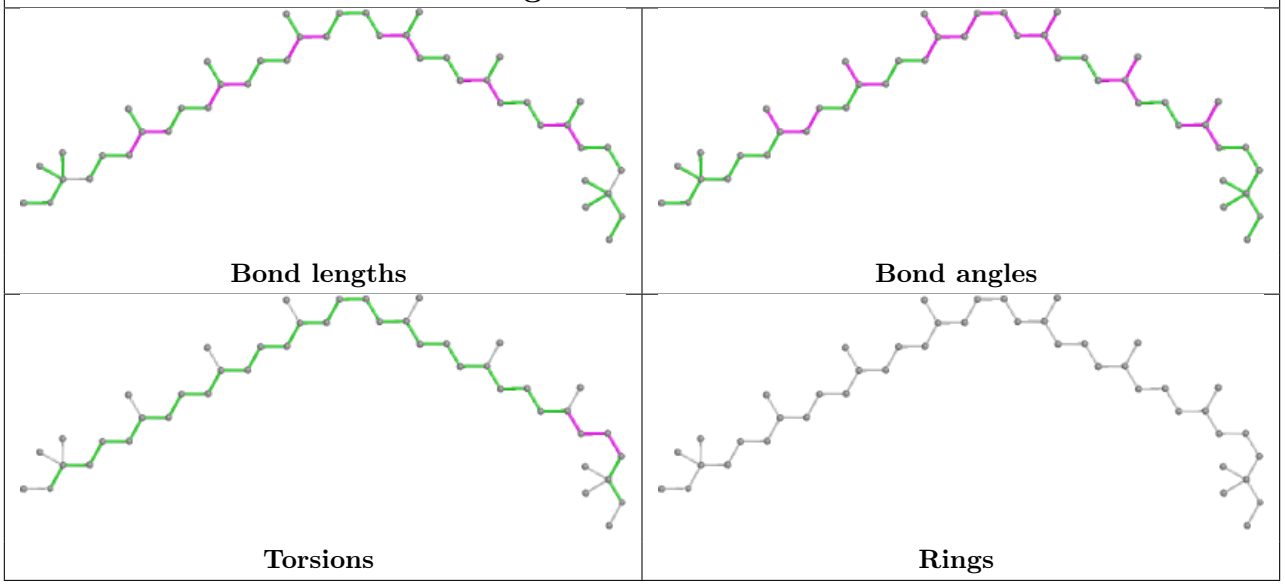
Ligand BCL A 102



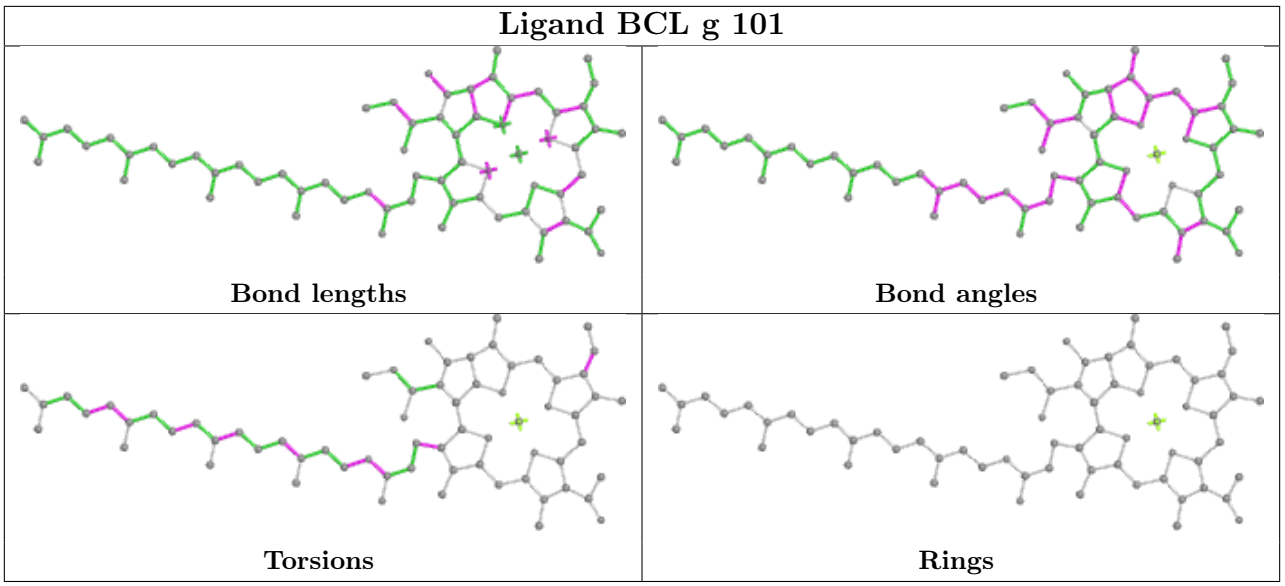
Ligand CRT Y 102



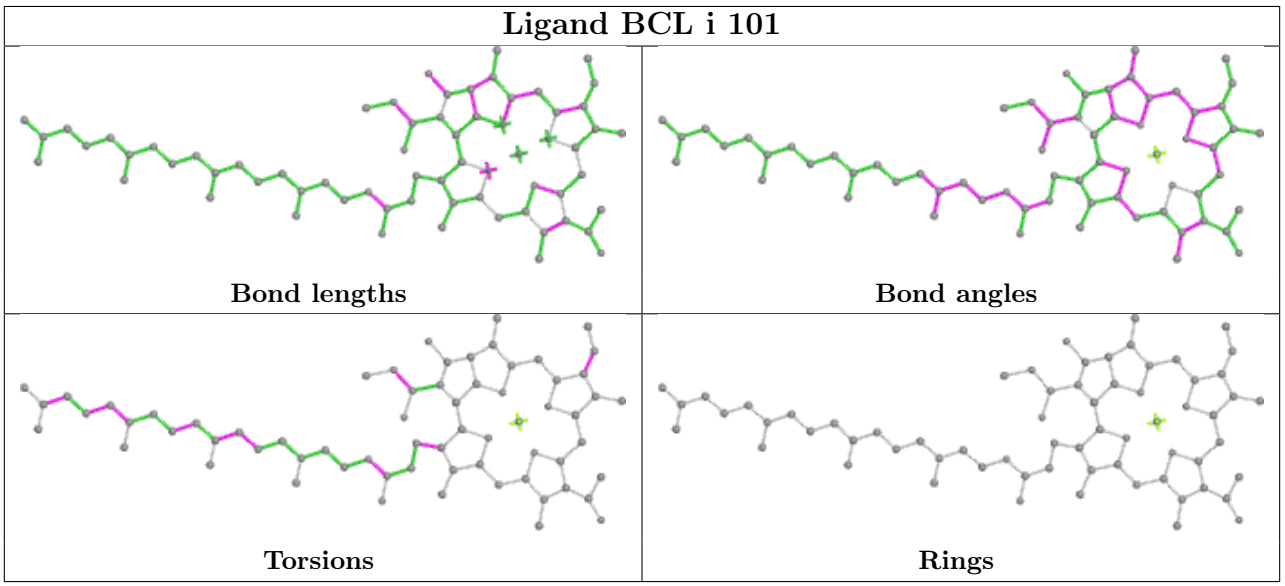
Ligand CRT N 103



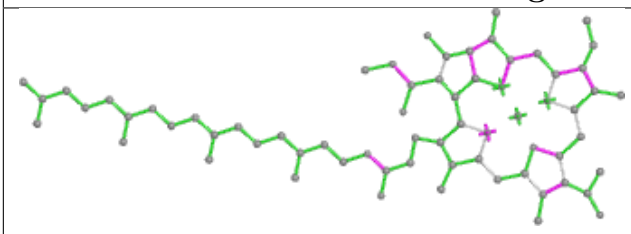
Ligand BCL g 101



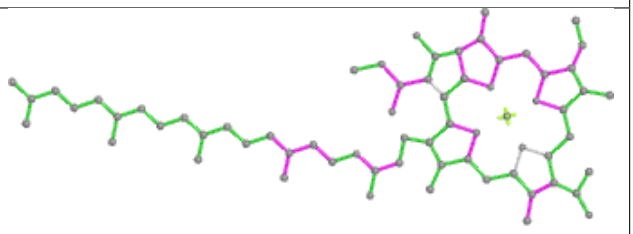
Ligand BCL i 101



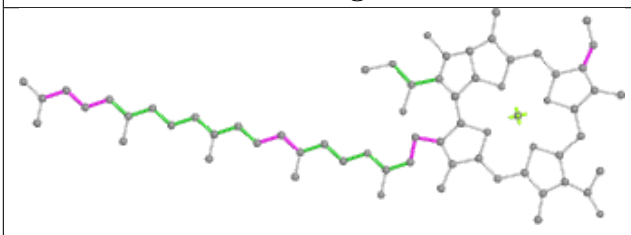
Ligand BCL h 101



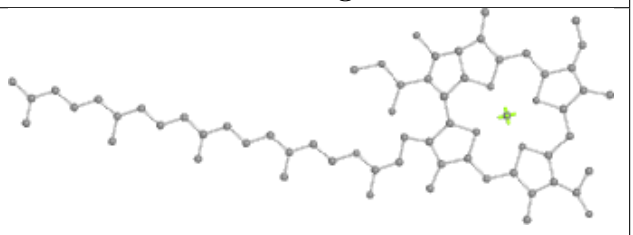
Bond lengths



Bond angles

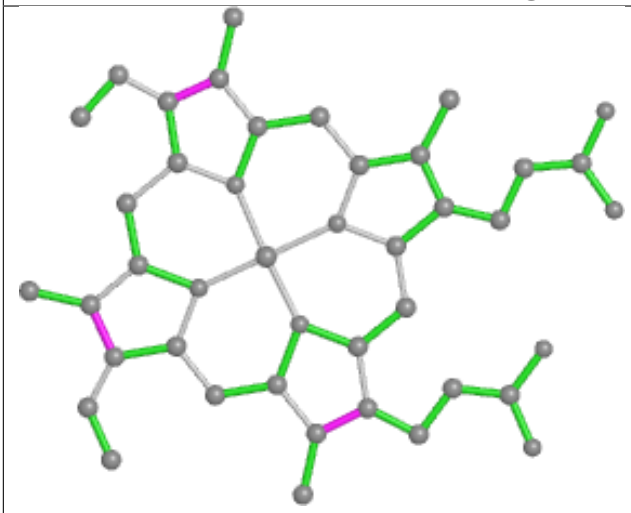


Torsions

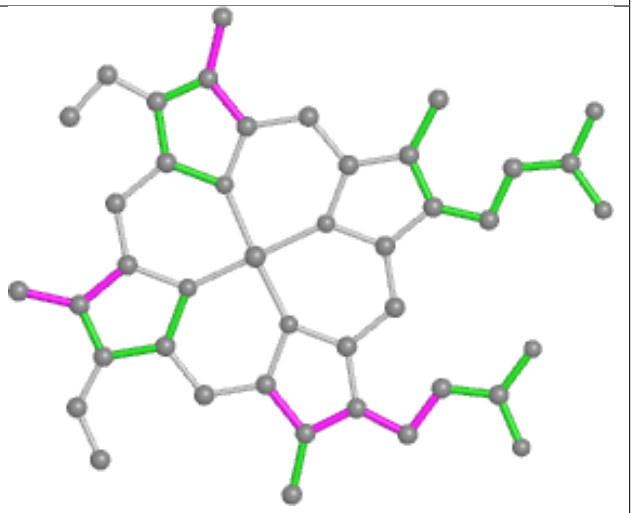


Rings

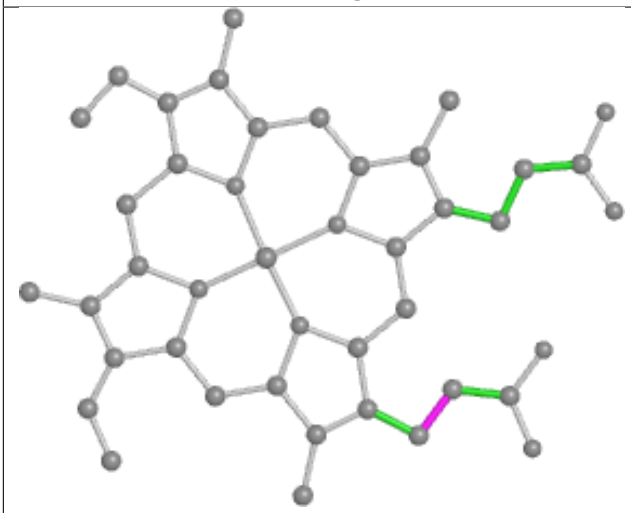
Ligand HEC C 501



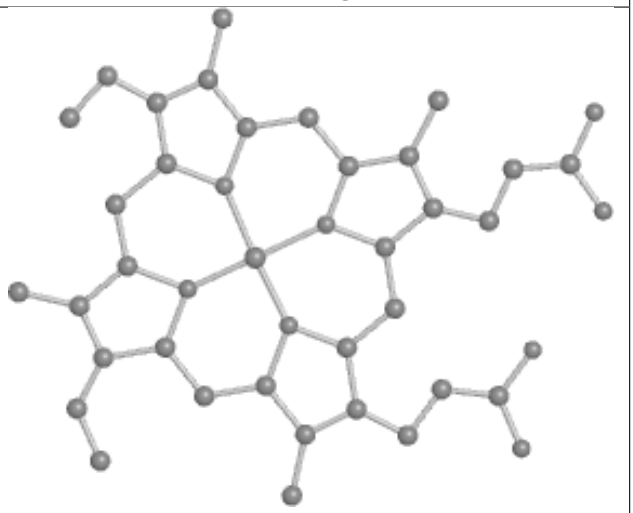
Bond lengths



Bond angles

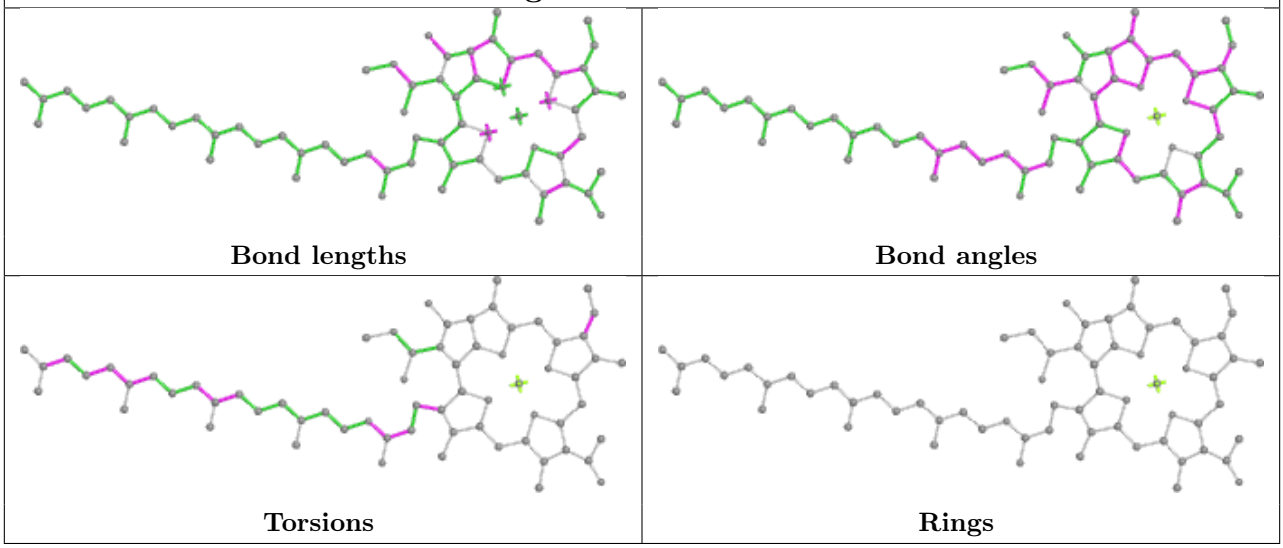


Torsions

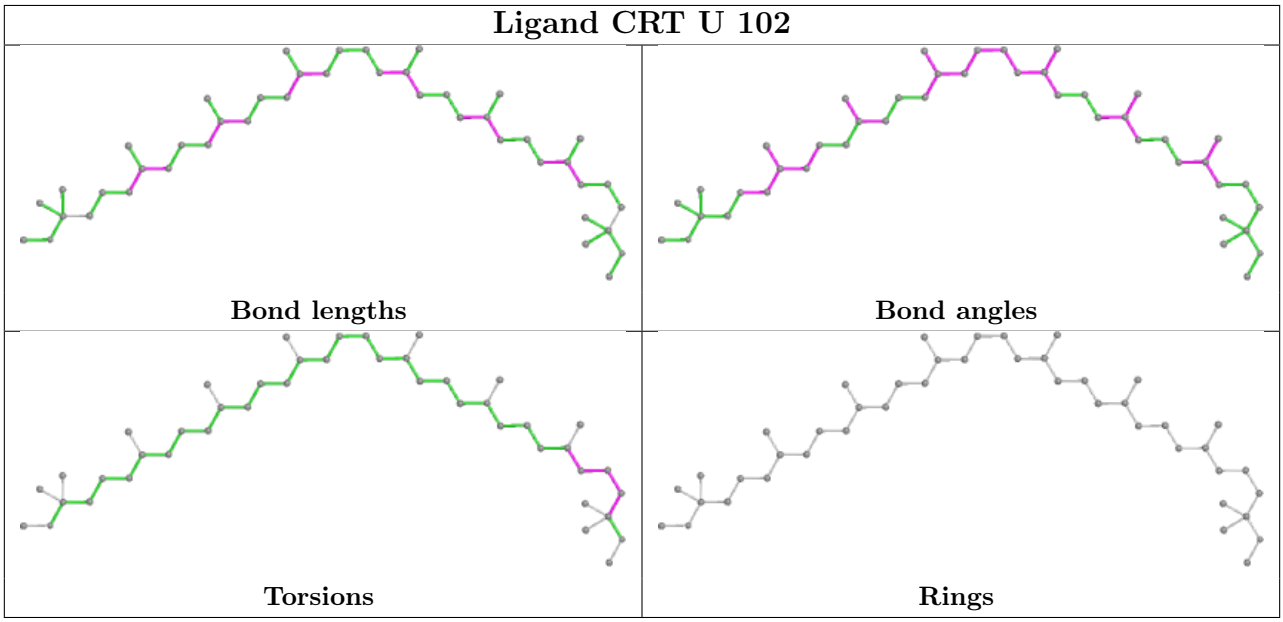


Rings

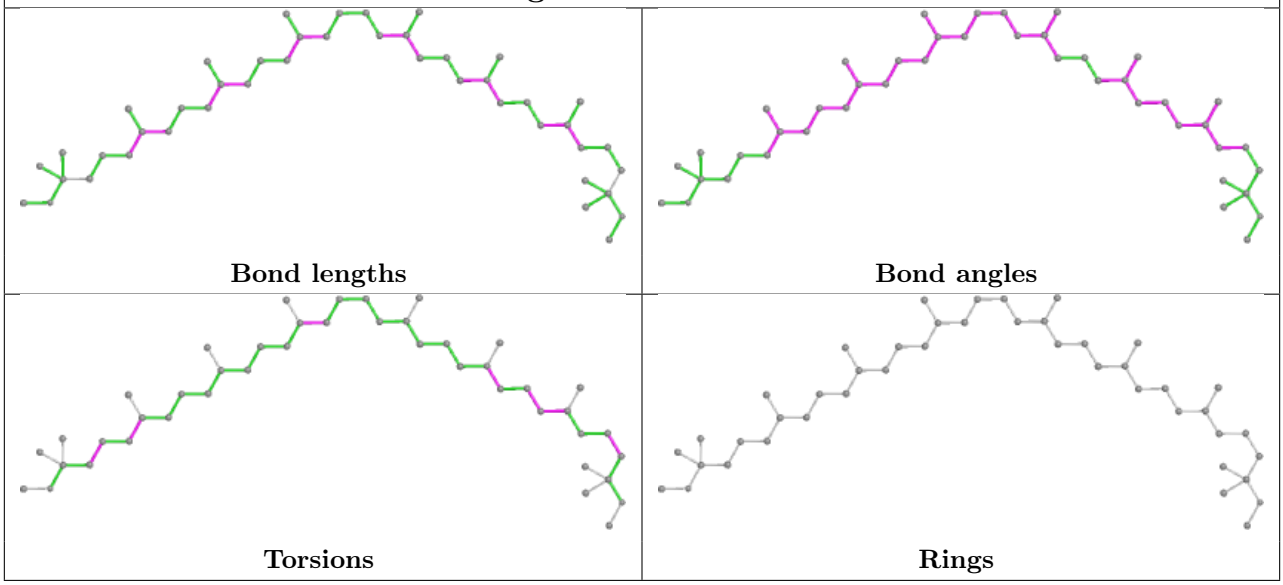
Ligand BCL K 101



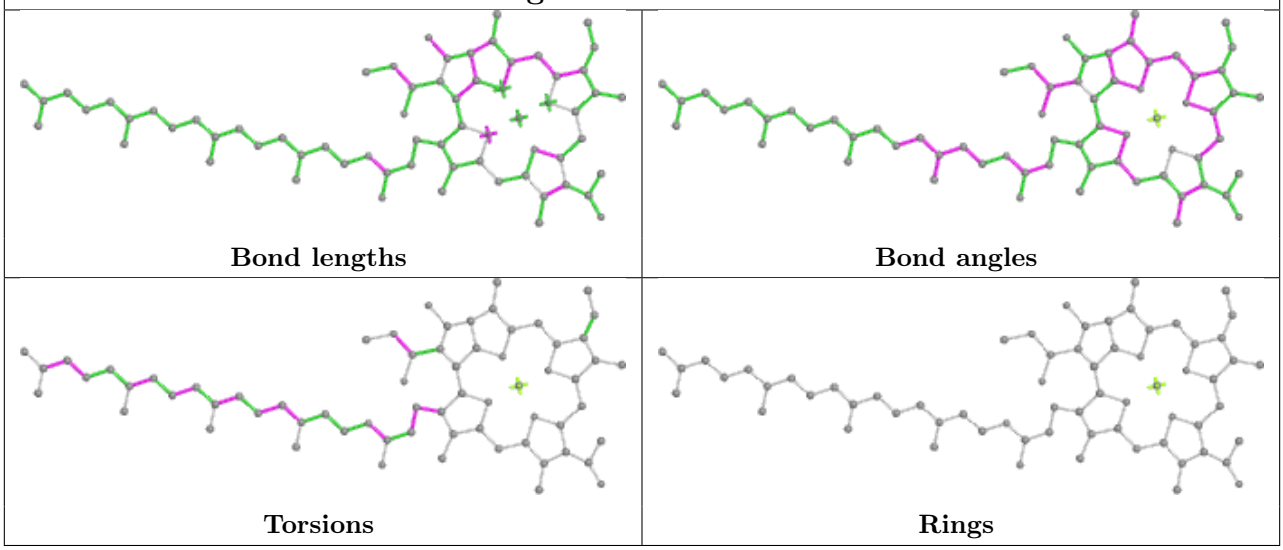
Ligand CRT U 102



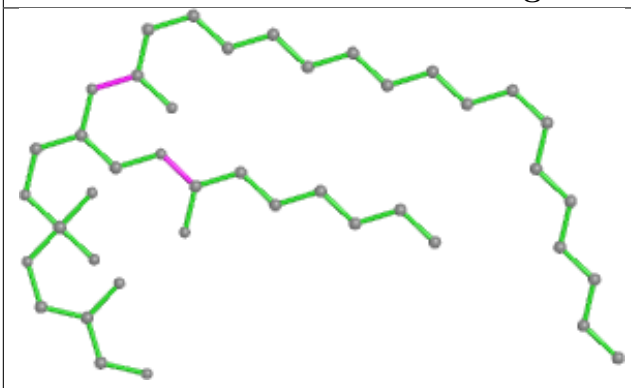
Ligand CRT Z 102



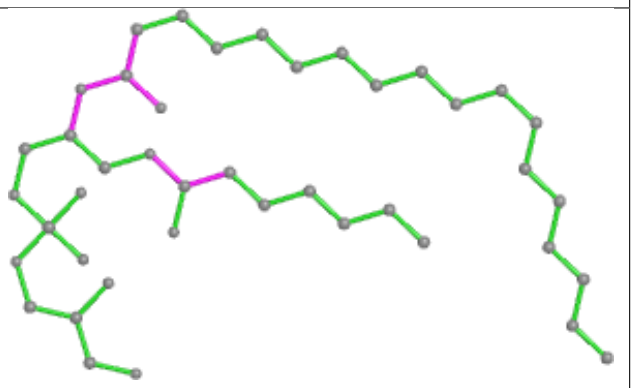
Ligand BCL P 102



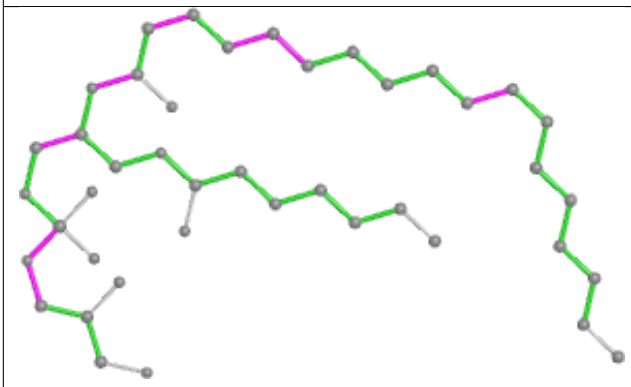
Ligand PGV Z 103



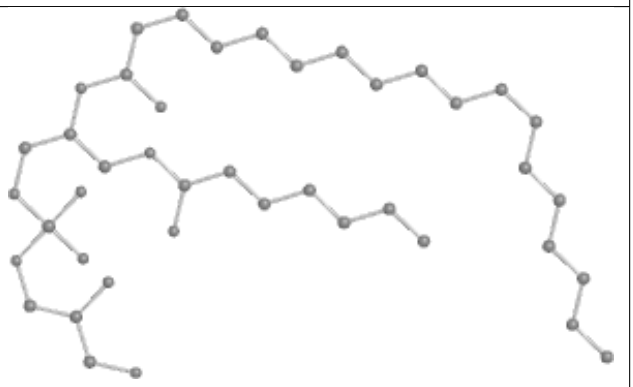
Bond lengths



Bond angles

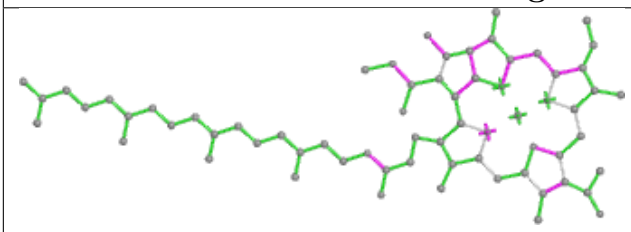


Torsions

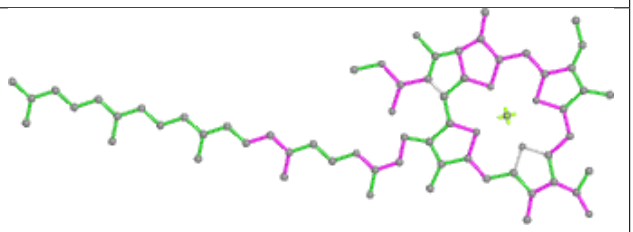


Rings

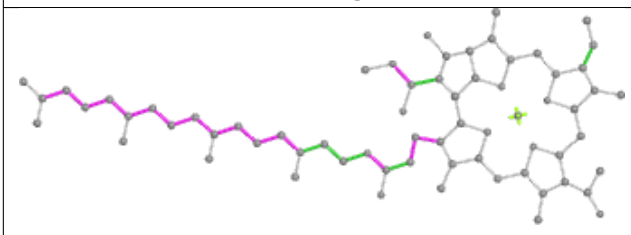
Ligand BCL b 102



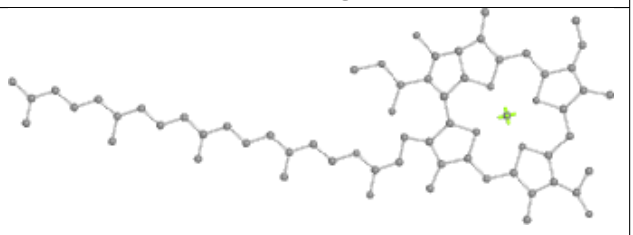
Bond lengths



Bond angles

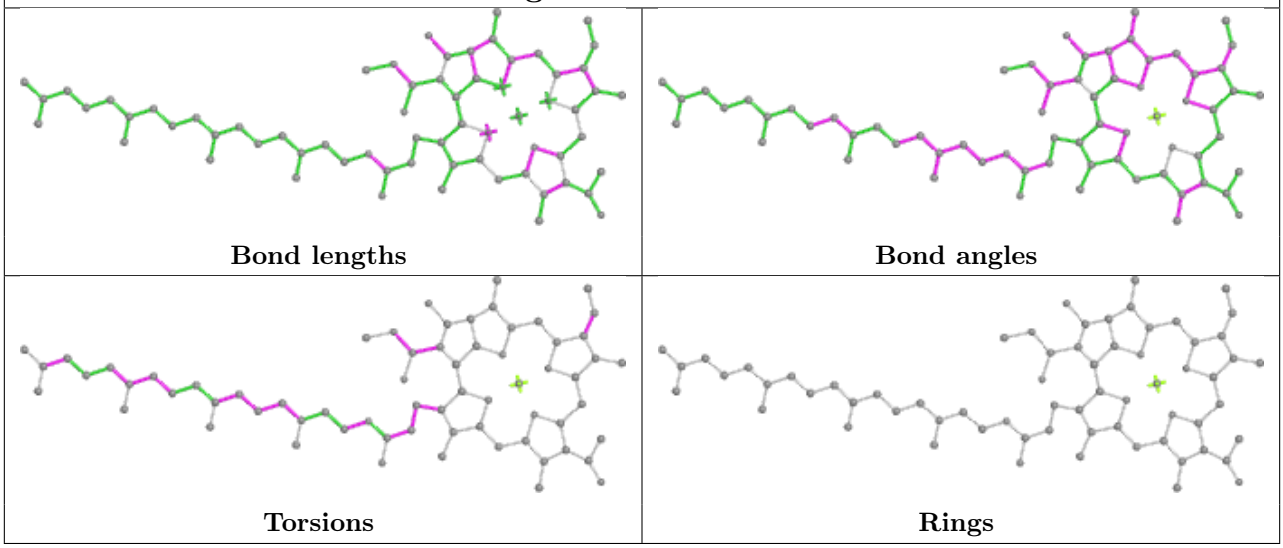


Torsions

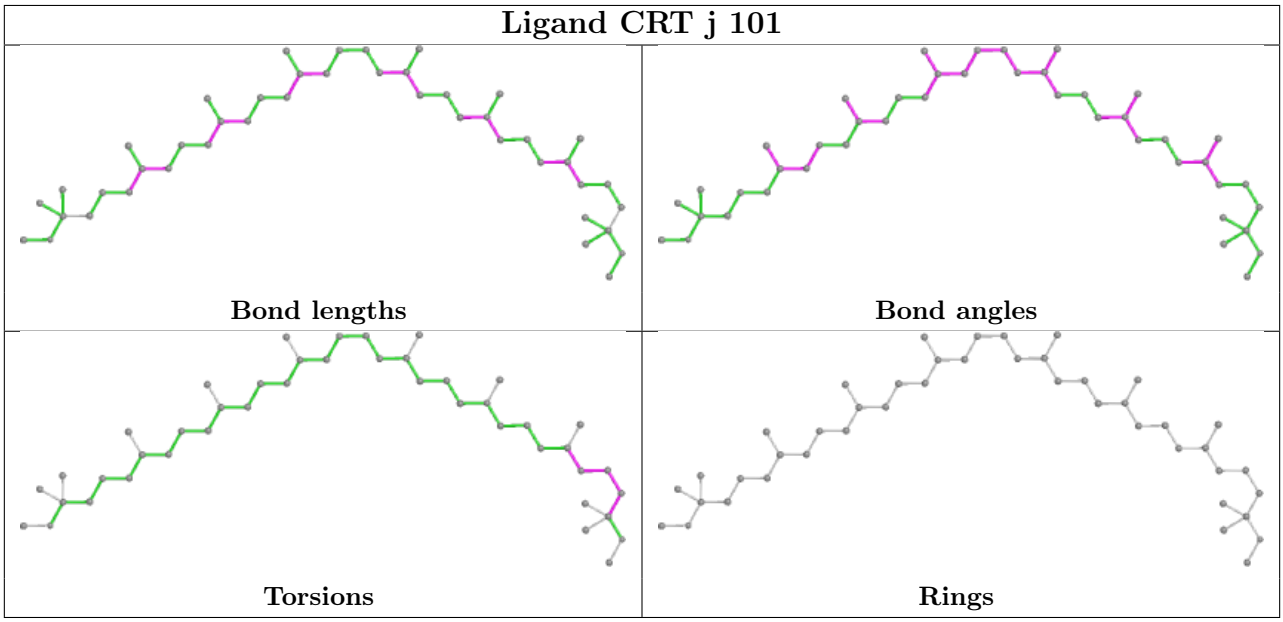


Rings

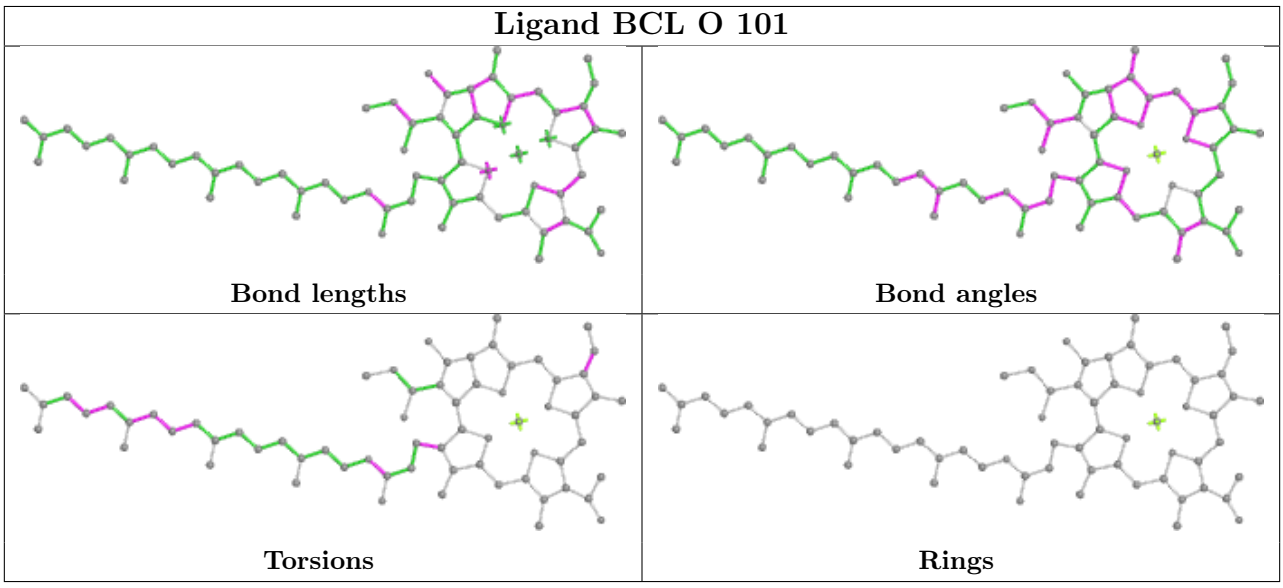
Ligand BCL A 101



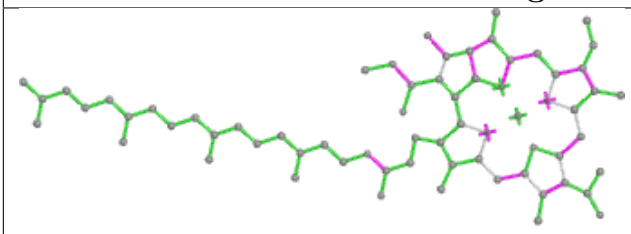
Ligand CRT j 101



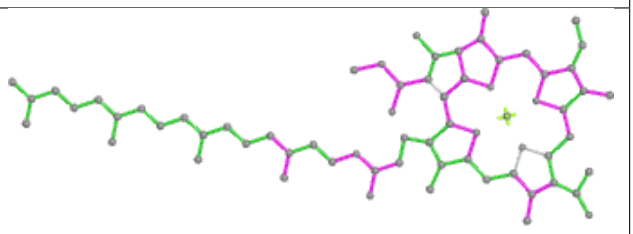
Ligand BCL O 101



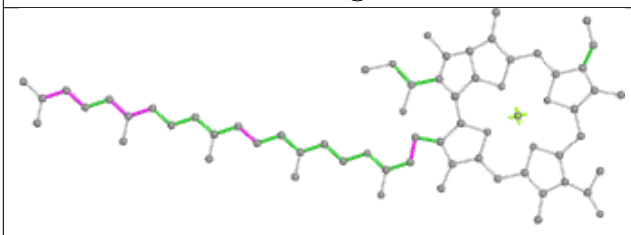
Ligand BCL L 402



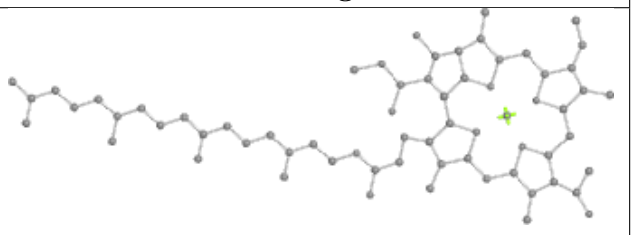
Bond lengths



Bond angles

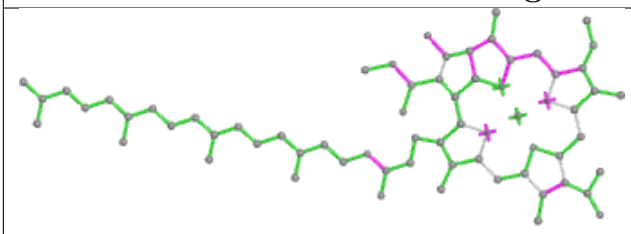


Torsions

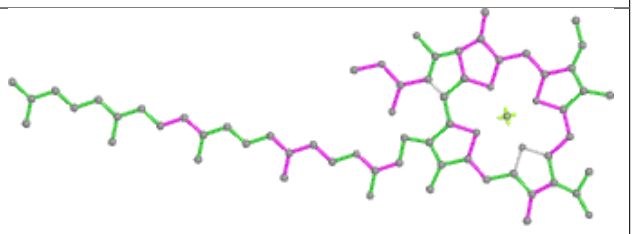


Rings

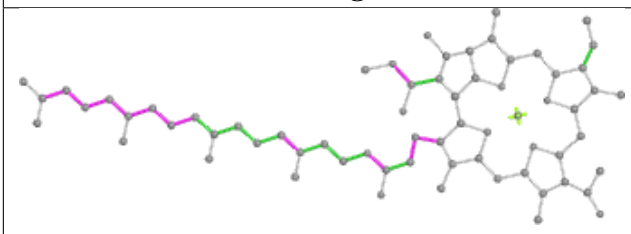
Ligand BCL V 102



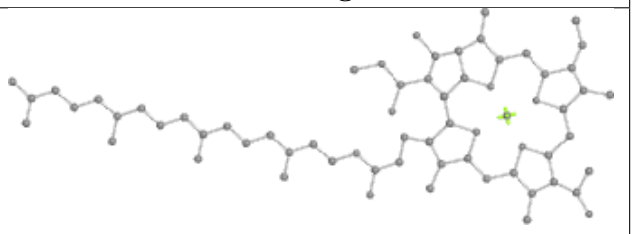
Bond lengths



Bond angles

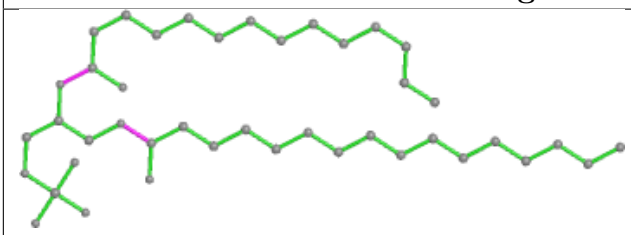


Torsions

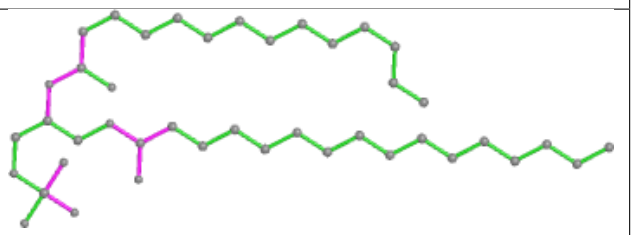


Rings

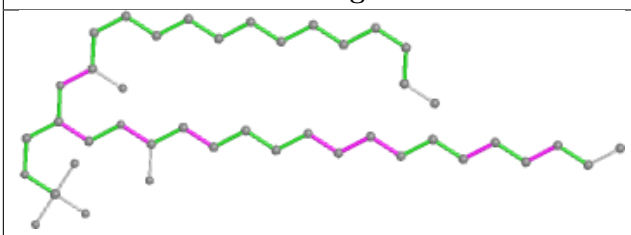
Ligand PGV M 408



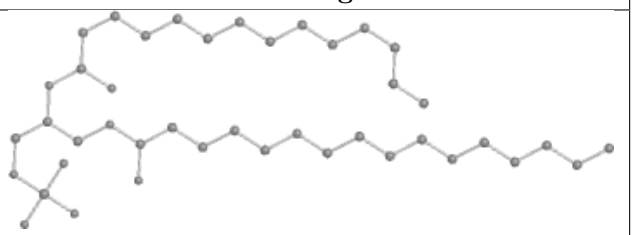
Bond lengths



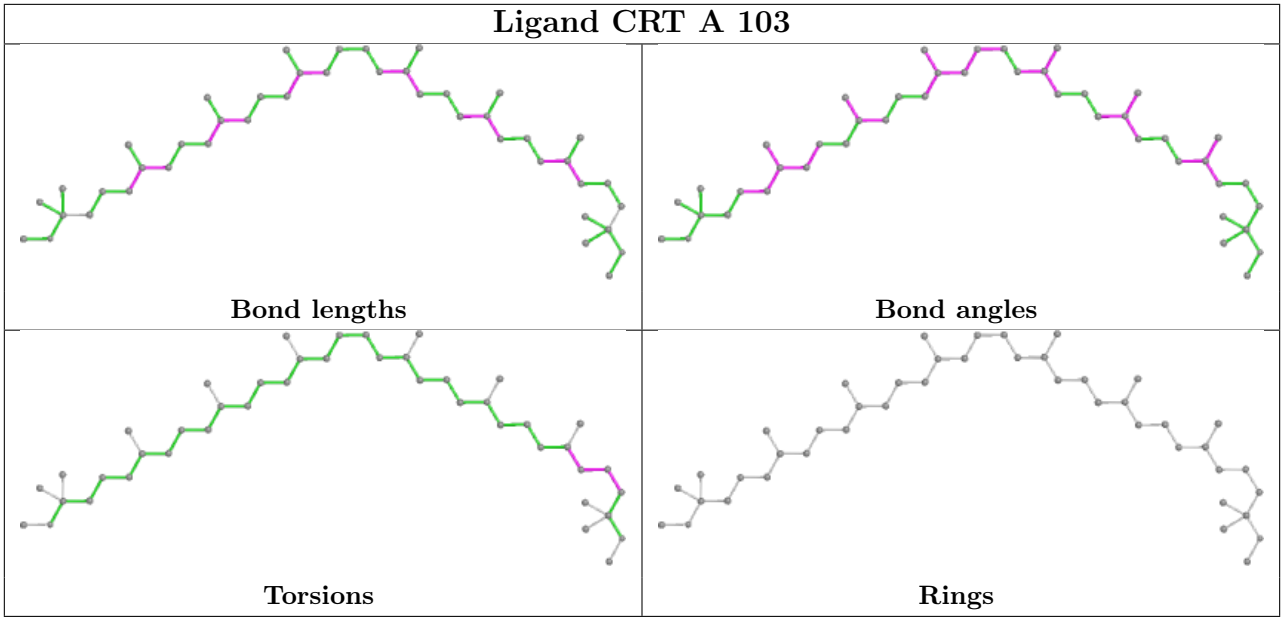
Bond angles



Torsions



Rings



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

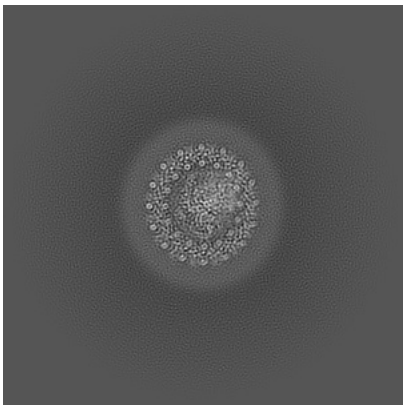
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-60165. These allow visual inspection of the internal detail of the map and identification of artifacts.

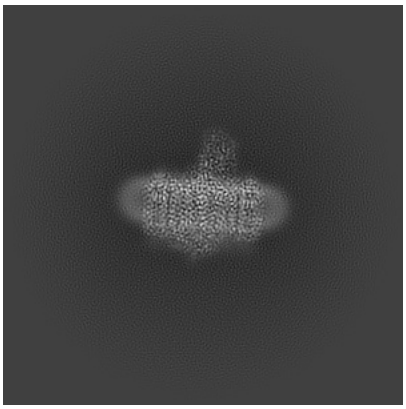
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

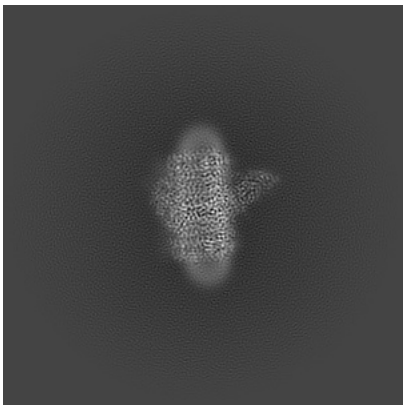
6.1.1 Primary map



X

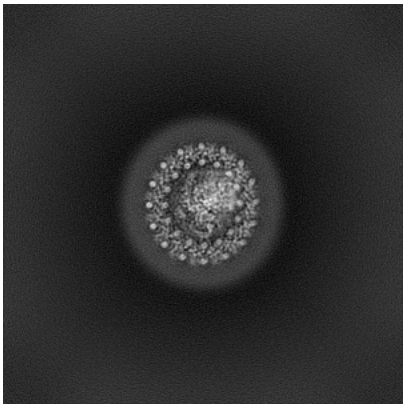


Y

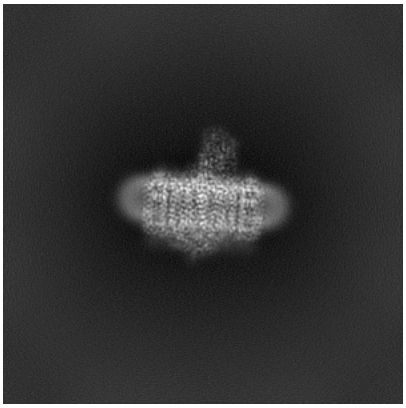


Z

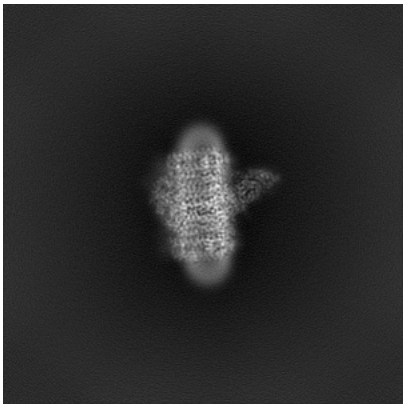
6.1.2 Raw map



X



Y

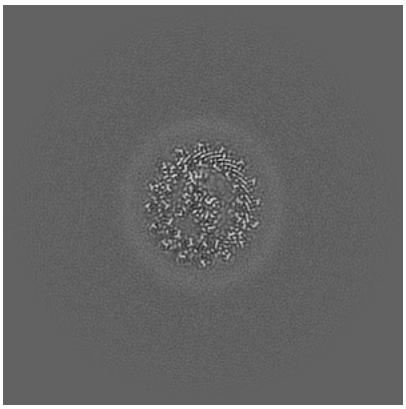


Z

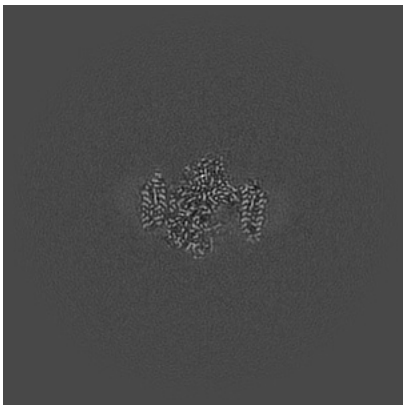
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

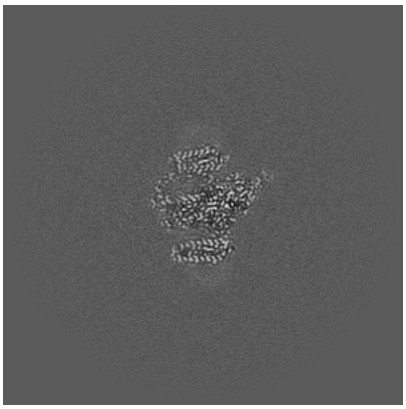
6.2.1 Primary map



X Index: 180

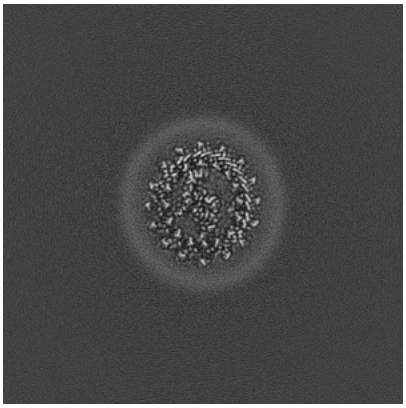


Y Index: 180

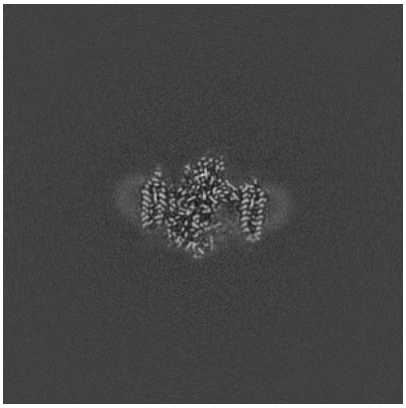


Z Index: 180

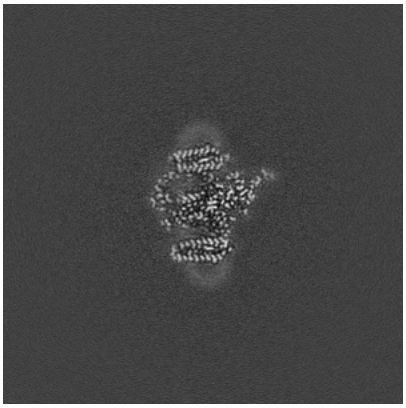
6.2.2 Raw map



X Index: 180



Y Index: 180

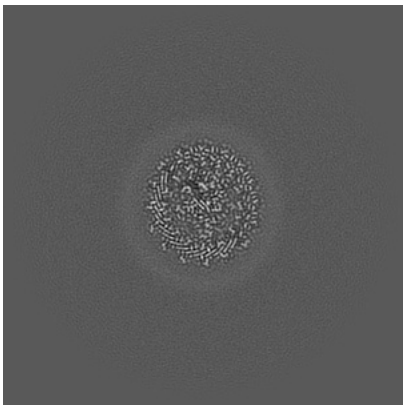


Z Index: 180

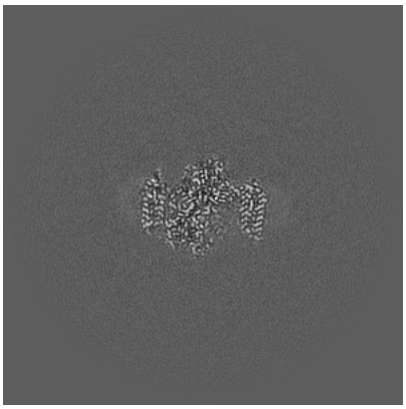
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

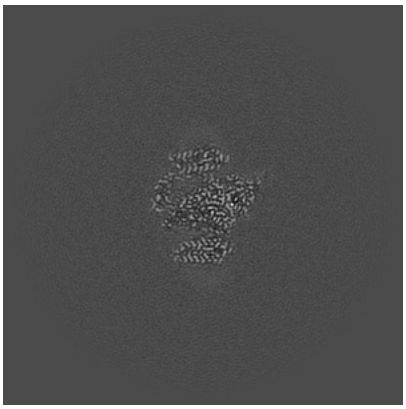
6.3.1 Primary map



X Index: 187

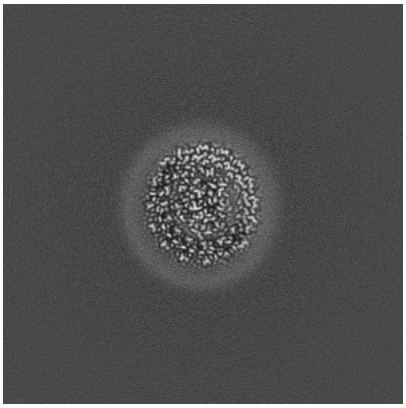


Y Index: 179

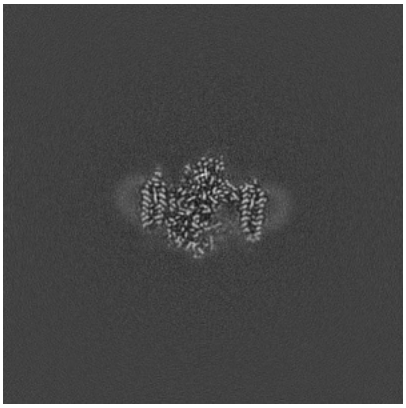


Z Index: 179

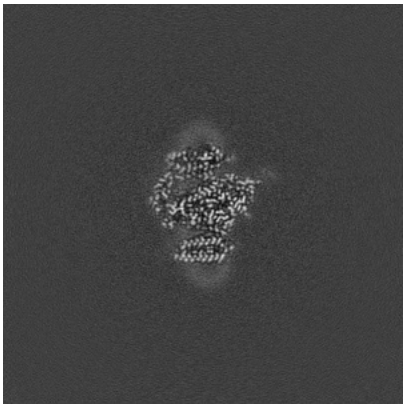
6.3.2 Raw map



X Index: 192



Y Index: 180

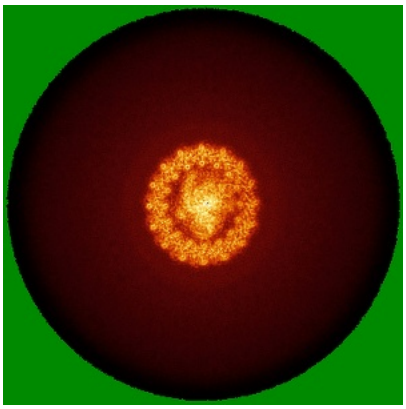


Z Index: 178

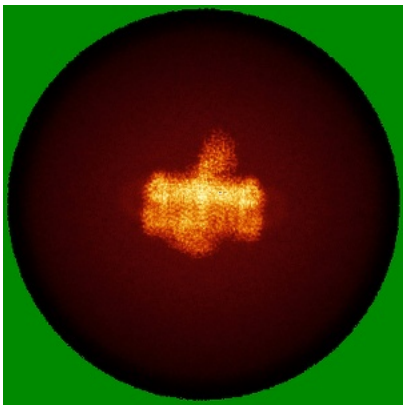
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

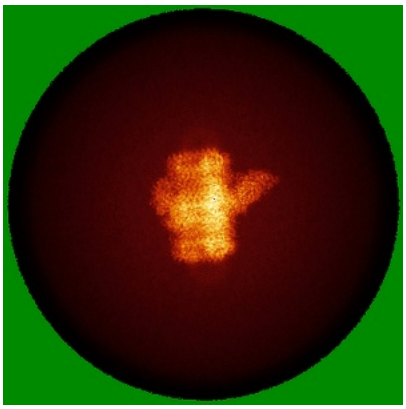
6.4.1 Primary map



X

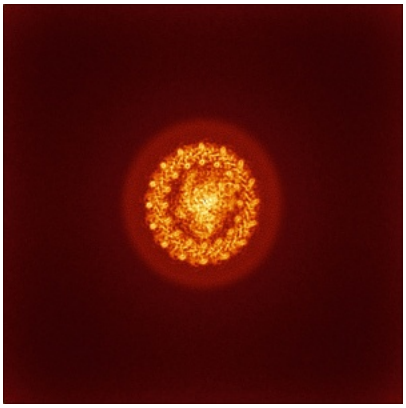


Y

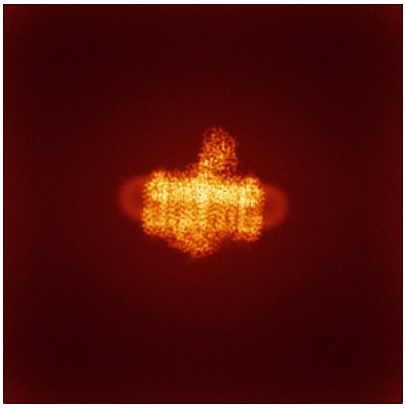


Z

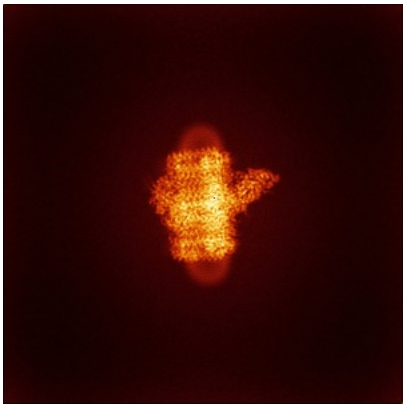
6.4.2 Raw map



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.

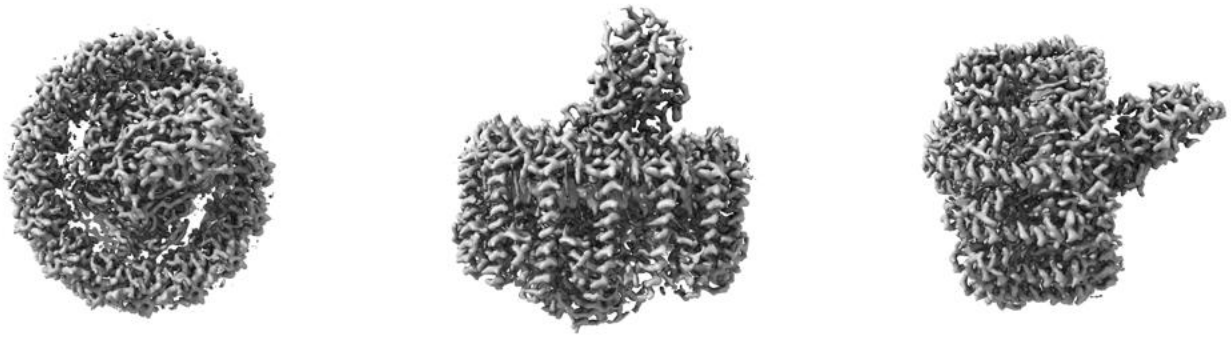
6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.562. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

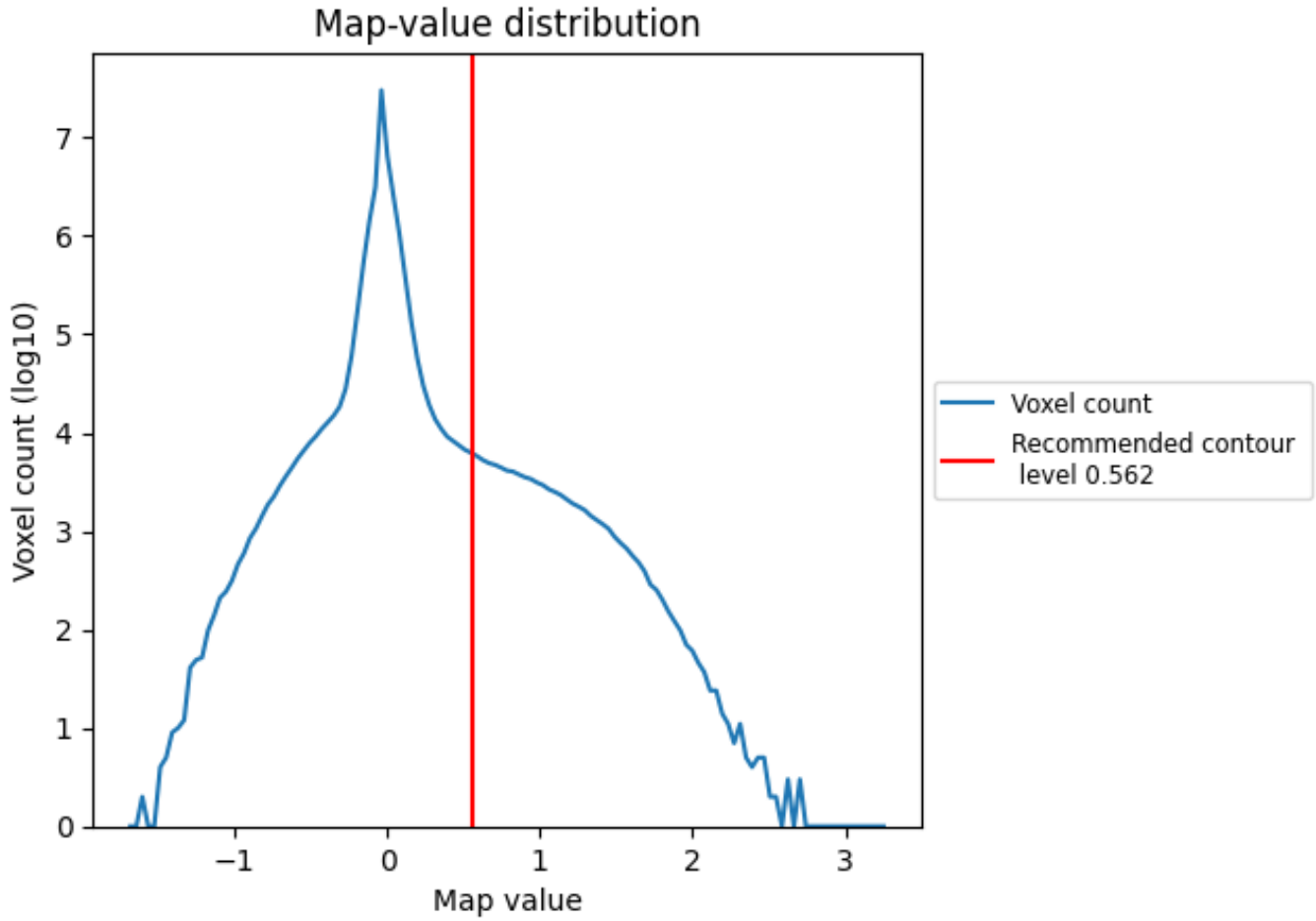
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

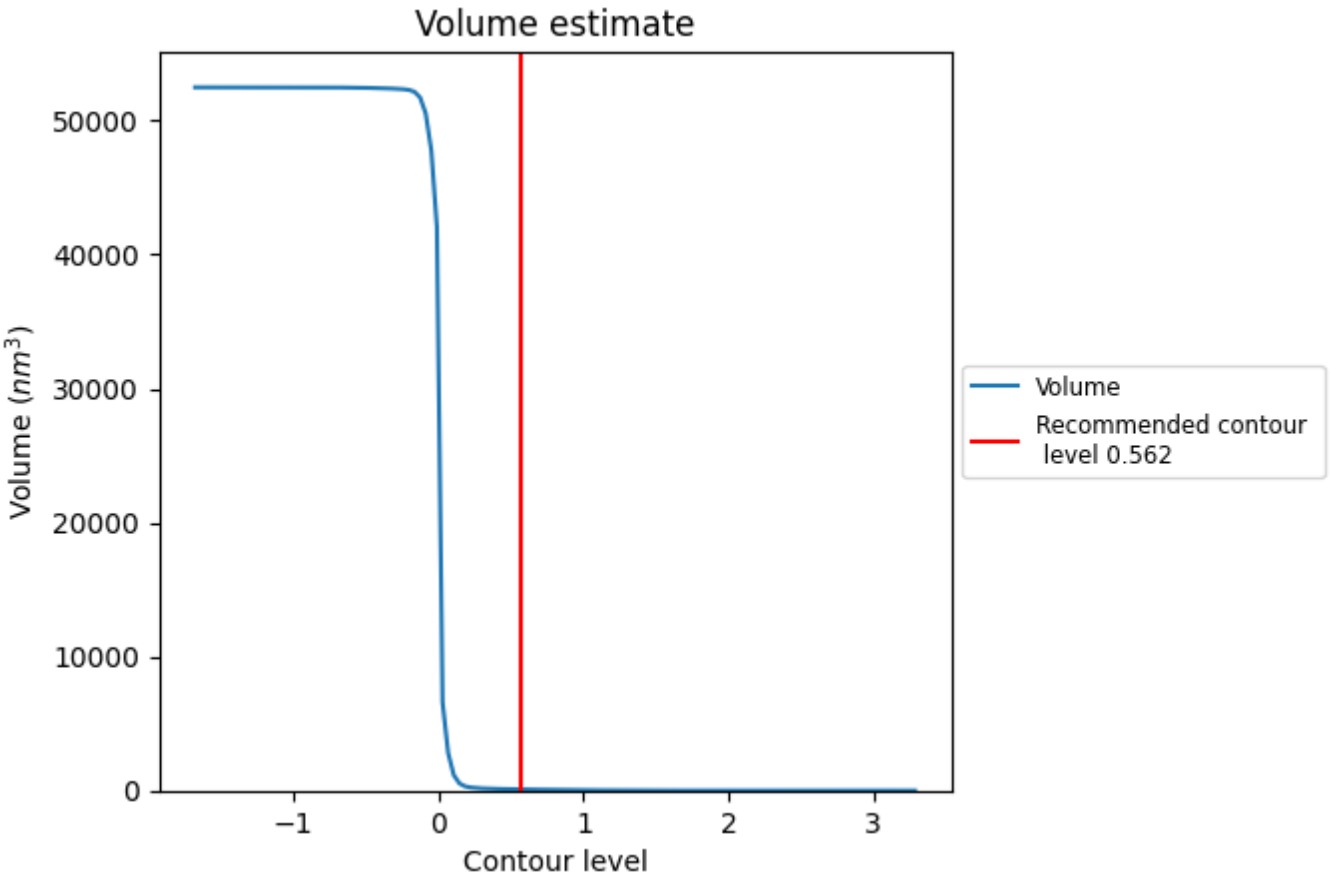
This section contains the results of statistical analysis of the map.

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.

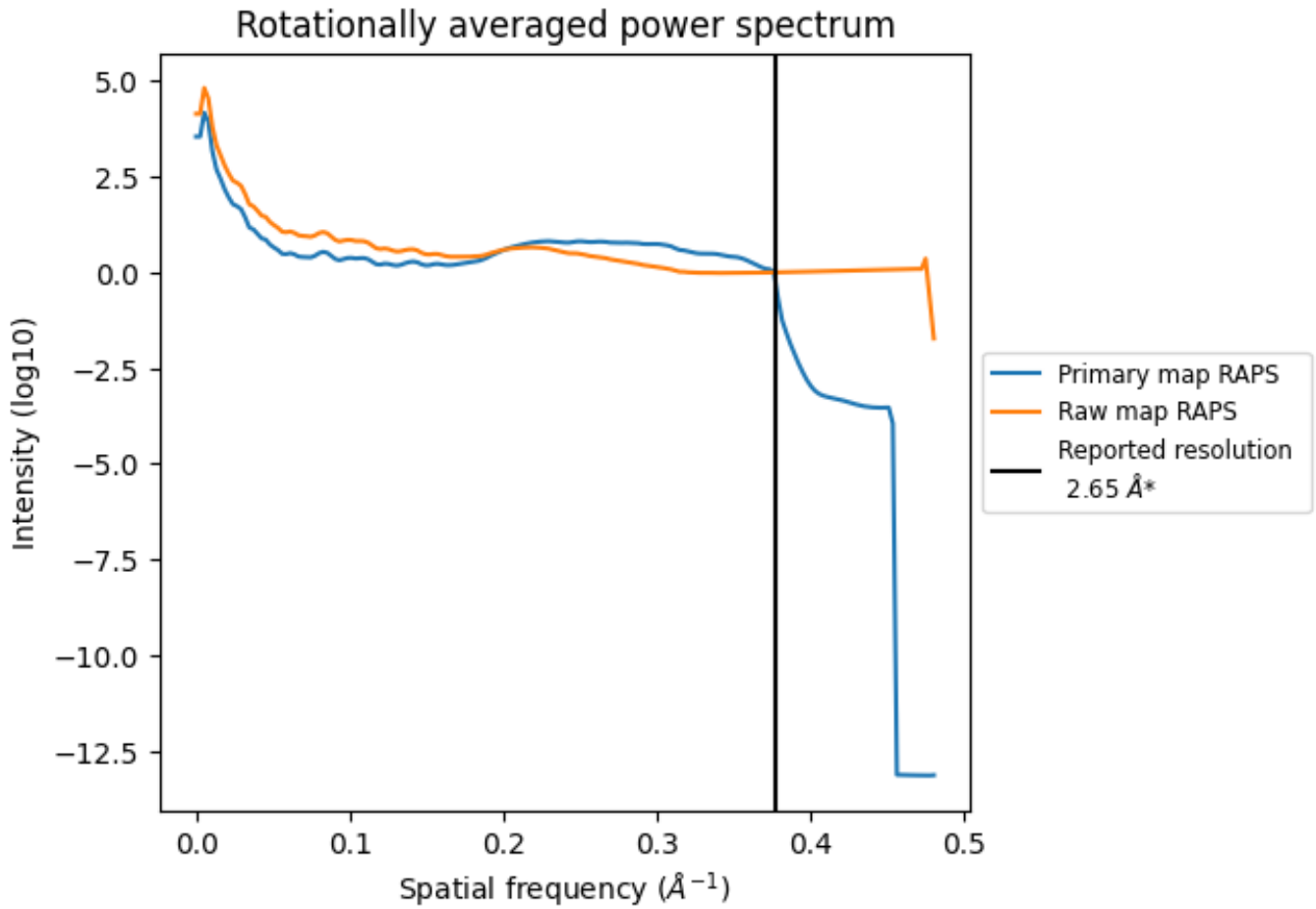
7.2 Volume estimate



The volume at the recommended contour level is 89 nm^3; this corresponds to an approximate mass of 81 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)

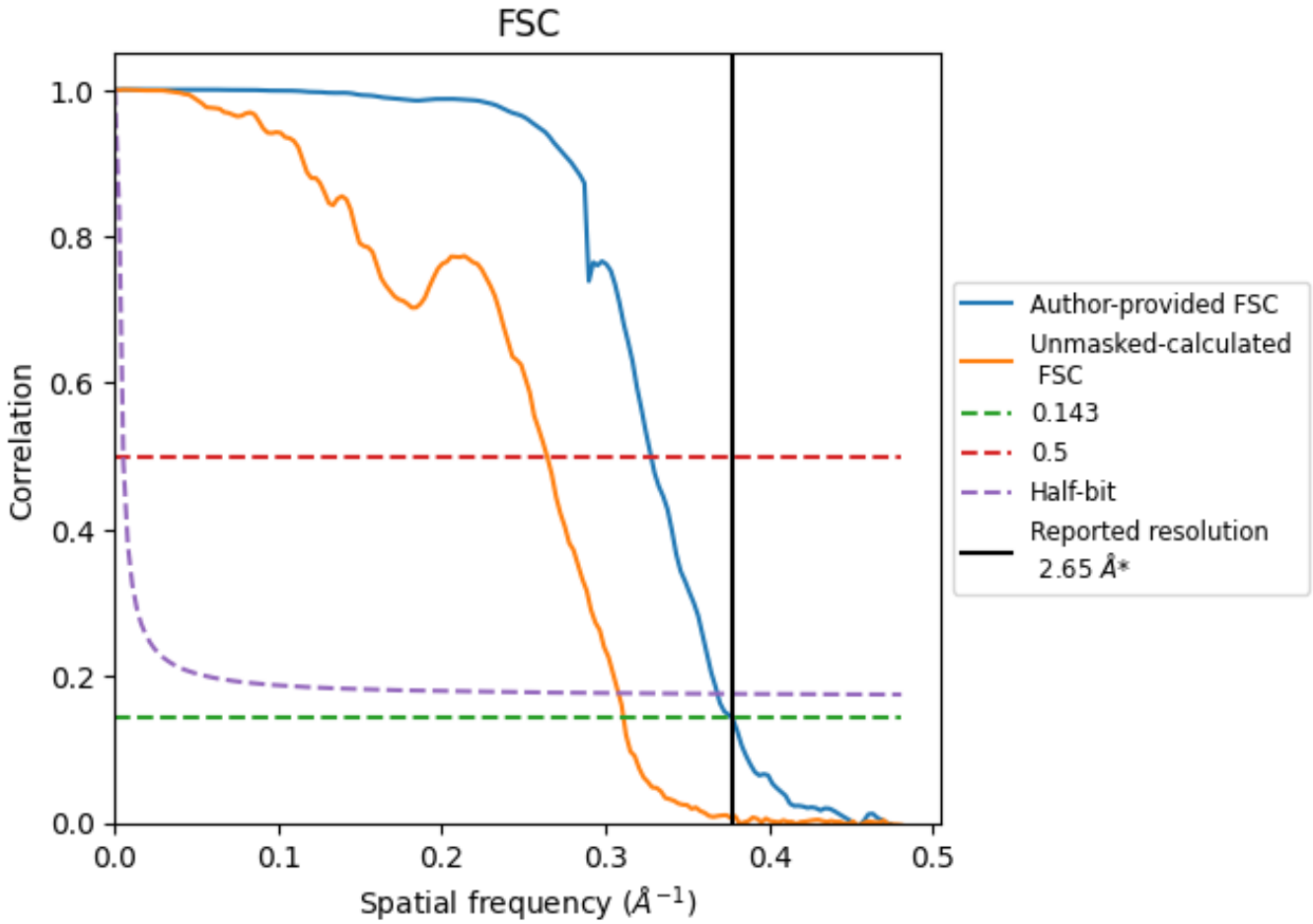


*Reported resolution corresponds to spatial frequency of 0.377 $Å^{-1}$

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.377 Å^{-1}

8.2 Resolution estimates (i)

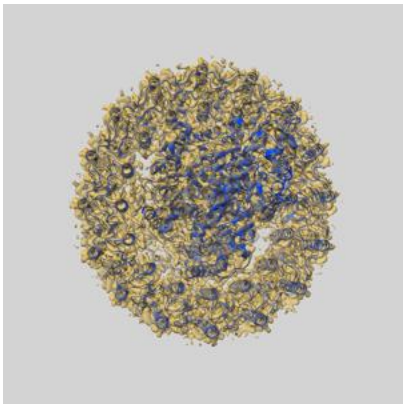
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.65	-	-
Author-provided FSC curve	2.65	3.05	2.71
Unmasked-calculated*	3.22	3.79	3.25

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.22 differs from the reported value 2.65 by more than 10 %

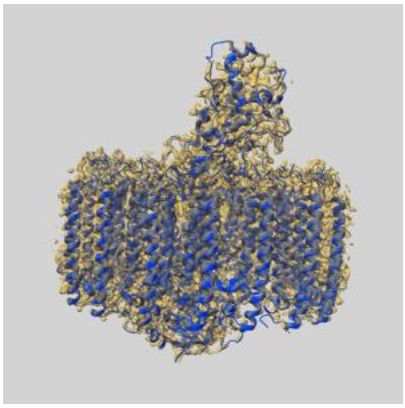
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-60165 and PDB model 8ZK2. Per-residue inclusion information can be found in section 3 on page 18.

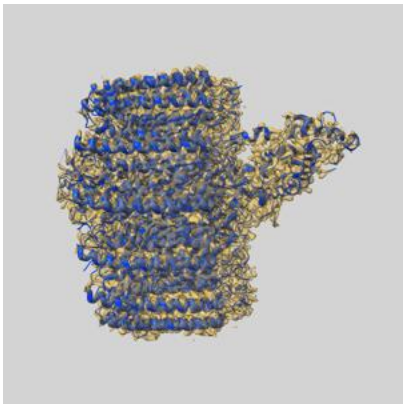
9.1 Map-model overlay



X



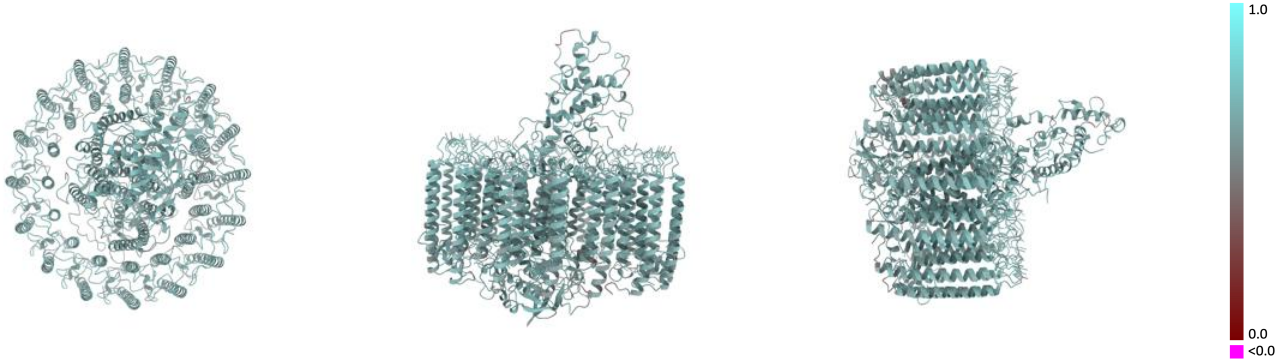
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.562 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.

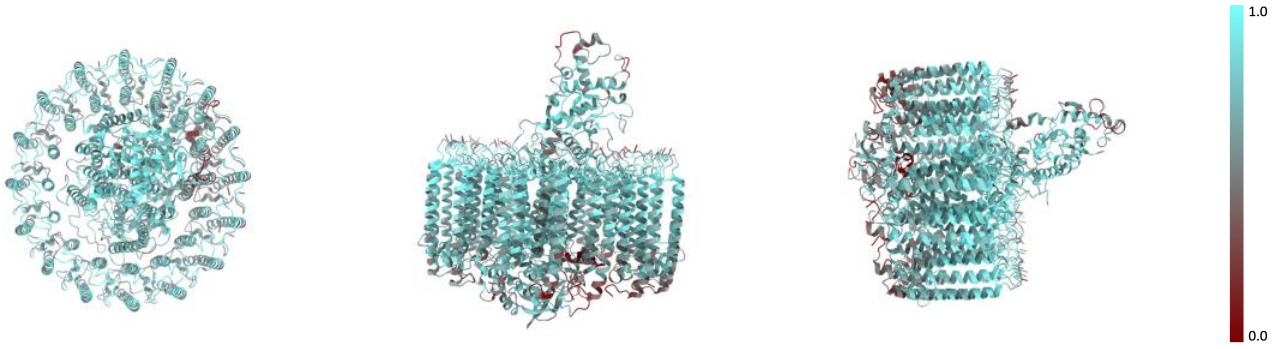
9.2 Q-score mapped to coordinate model (i)



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.

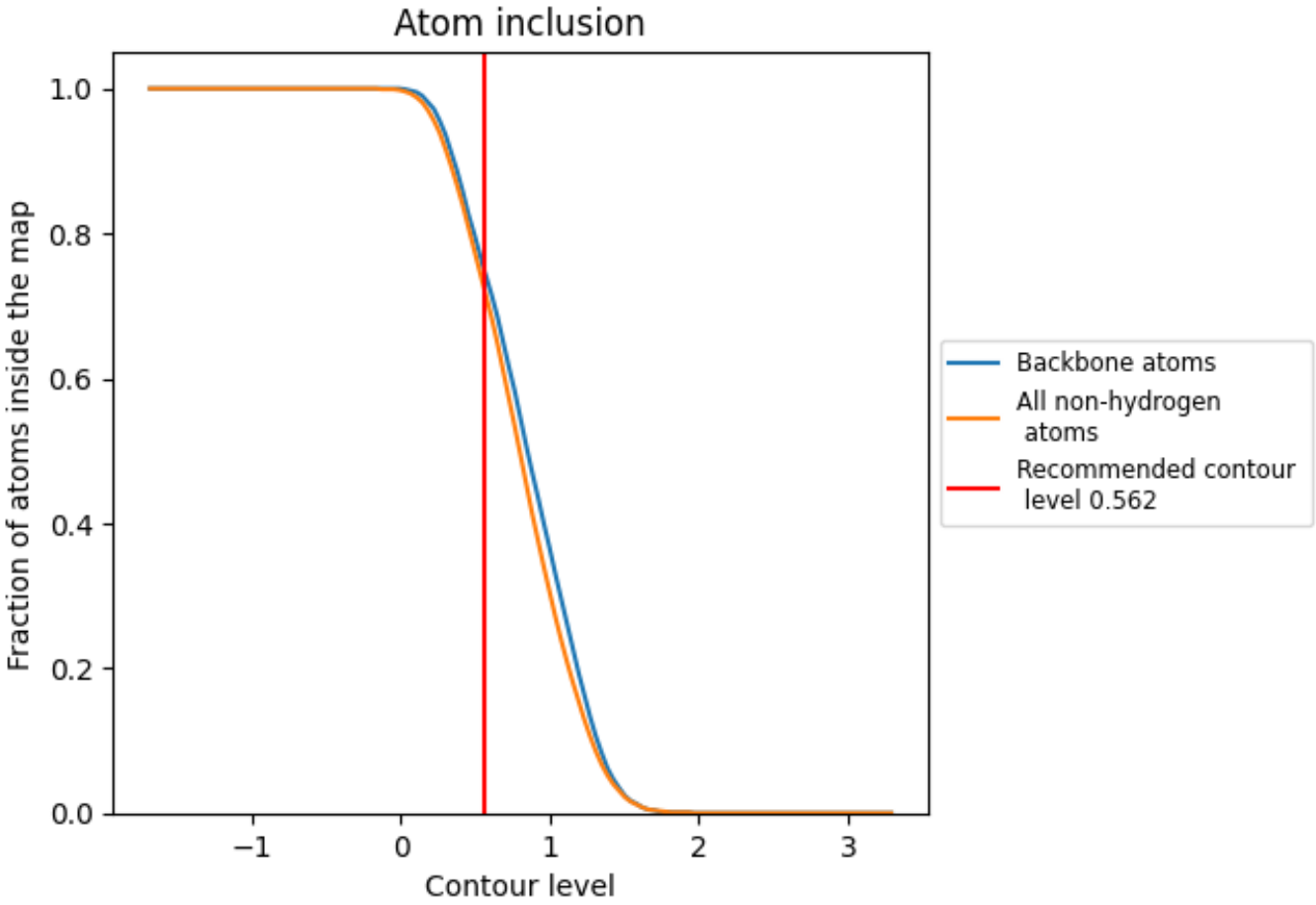
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.562).

9.4 Atom inclusion (i)



At the recommended contour level, 75% of all backbone atoms, 72% 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 (0.562) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7220	0.6360
A	0.6740	0.6380
B	0.6430	0.6190
C	0.7380	0.6320
D	0.6850	0.6350
E	0.7510	0.6440
F	0.7150	0.6240
G	0.7620	0.6460
H	0.6530	0.6250
I	0.7250	0.6320
J	0.7380	0.6410
K	0.7160	0.6300
L	0.7920	0.6510
M	0.7740	0.6520
N	0.7220	0.6390
O	0.6990	0.6220
P	0.6970	0.6340
Q	0.7180	0.6290
R	0.7320	0.6390
S	0.7200	0.6370
T	0.7490	0.6480
U	0.7290	0.6330
V	0.7020	0.6410
W	0.7650	0.6340
X	0.7700	0.6490
Y	0.6090	0.6110
Z	0.5700	0.5990
a	0.7580	0.6360
b	0.7640	0.6480
c	0.6410	0.6220
d	0.6320	0.6290
e	0.7080	0.6340
f	0.7020	0.6390
g	0.7010	0.6400
h	0.7140	0.6350

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Chain	Atom inclusion	Q-score
i	0.7580	0.6340
j	0.7150	0.6350