Full wwPDB EM Validation Report ⓘ

Oct 28, 2024 – 01:55 AM JST

PDB ID	:	8IUG
EMDB ID	:	EMD-35721
Title	:	Cryo-EM structure of the RC-LH core complex from roseiflexus castenholzii
Authors	:	Wang, G.-L.; Qi, C.-H.; Yu, L.-J.
Deposited on	:	2023-03-24
Resolution	:	2.86 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:

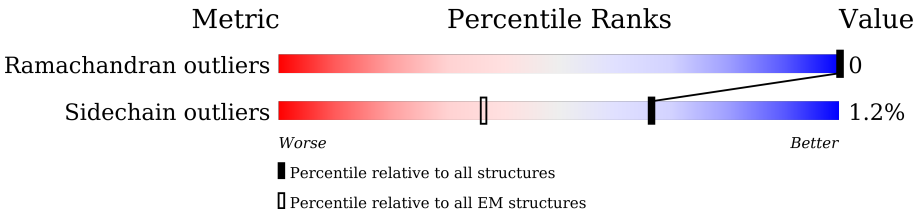
EMDB validation analysis	:	0.0.1.dev113
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

1 Overall quality at a glance

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

The reported resolution of this entry is 2.86 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	0	55	91% 9%
1	2	55	5% 85% 5% 9%
1	4	55	89% 9%
1	6	55	91% 9%
1	8	55	91% 9%
1	B	55	91% 9%
1	E	55	91% 9%
1	G	55	89% 9%
1	I	55	91% 9%

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Mol	Chain	Length	Quality of chain
1	K	55	91% 9%
1	O	55	91% 9%
1	Q	55	91% 9%
1	S	55	89% 9%
1	U	55	91% 9%
1	W	55	91% 9%
2	1	42	90% 10%
2	3	42	90% 7%
2	5	42	93% 7%
2	7	42	93% 7%
2	9	42	90% 10%
2	A	42	90% 10%
2	D	42	90% 7%
2	F	42	86% 5% 10%
2	H	42	93% 7%
2	J	42	93% 7%
2	N	42	93% 7%
2	P	42	93% 7%
2	R	42	93% 7%
2	T	42	88% 10%
2	V	42	5% 90% 10%
3	C	320	97%
4	L	641	44% 55%
4	M	641	47% 52%
5	X	30	17% 97%

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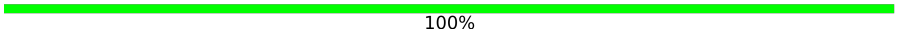
Mol	Chain	Length	Quality of chain
6	Y	39	
7	Z	10	
8	h	63	

2 Entry composition (i)

There are 22 unique types of molecules in this entry. The entry contains 25238 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 Antenna complex alpha/beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	2	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	4	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	6	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	8	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	B	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	E	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	G	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	I	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	K	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	O	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	Q	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	S	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	U	50	Total	C	N	O	S	0	0
			416	280	69	66	1		
1	W	50	Total	C	N	O	S	0	0
			416	280	69	66	1		

- Molecule 2 is a protein called Alpha subunit of light-harvesting 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1	38	Total	C	N	O	S	0	0
			300	201	51	47	1		
2	3	39	Total	C	N	O	S	0	0
			308	205	52	50	1		
2	5	39	Total	C	N	O	S	0	0
			308	205	52	50	1		
2	7	39	Total	C	N	O	S	0	0
			308	205	52	50	1		
2	9	38	Total	C	N	O	S	0	0
			300	201	51	47	1		
2	A	38	Total	C	N	O	S	0	0
			300	201	51	47	1		
2	D	39	Total	C	N	O	S	0	0
			308	205	52	50	1		
2	F	38	Total	C	N	O	S	0	0
			300	201	51	47	1		
2	H	39	Total	C	N	O	S	0	0
			308	205	52	50	1		
2	J	39	Total	C	N	O	S	0	0
			308	205	52	50	1		
2	N	39	Total	C	N	O	S	0	0
			308	205	52	50	1		
2	P	39	Total	C	N	O	S	0	0
			308	205	52	50	1		
2	R	39	Total	C	N	O	S	0	0
			308	205	52	50	1		
2	T	38	Total	C	N	O	S	0	0
			300	201	51	47	1		
2	V	38	Total	C	N	O	S	0	0
			300	201	51	47	1		

- Molecule 3 is a protein called Cytochrome subunit of photosynthetic reaction center.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	316	Total	C	N	O	S	0	0
			2411	1537	408	444	22		

- Molecule 4 is a protein called Reaction center protein L chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	L	286	Total	C	N	O	S	0	0
			2278	1527	367	376	8		
4	M	306	Total	C	N	O	S	0	0
			2488	1673	399	409	7		

- Molecule 5 is a protein called TMx polypeptide.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	X	30	Total	C	N	O	S	1	0
			246	172	32	38	4		

- Molecule 6 is a protein called reaction center small polypeptide.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	Y	32	Total	C	N	O	S	0	0
			259	181	36	39	3		

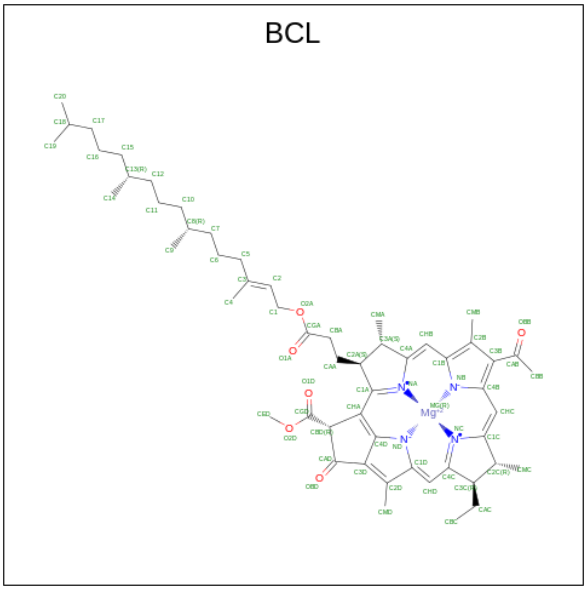
- Molecule 7 is a protein called reaction center unknown polypeptide.

Mol	Chain	Residues	Atoms				AltConf	Trace
7	Z	10	Total	C	N	O	0	0
			51	31	10	10		

- Molecule 8 is a protein called reaction center small polypeptide.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	h	47	Total	C	N	O	S	0	0
			362	242	59	60	1		

- Molecule 9 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
9	0	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	0	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	1	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	2	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	2	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	3	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	4	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	4	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	5	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	6	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	6	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	7	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	8	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	8	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	9	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	A	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	B	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	B	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	D	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	D	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	E	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	F	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
9	F	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	G	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	H	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	I	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	I	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	J	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	K	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	K	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	L	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	L	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	M	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	N	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	O	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	O	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	P	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	Q	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	Q	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	R	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	S	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	S	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	T	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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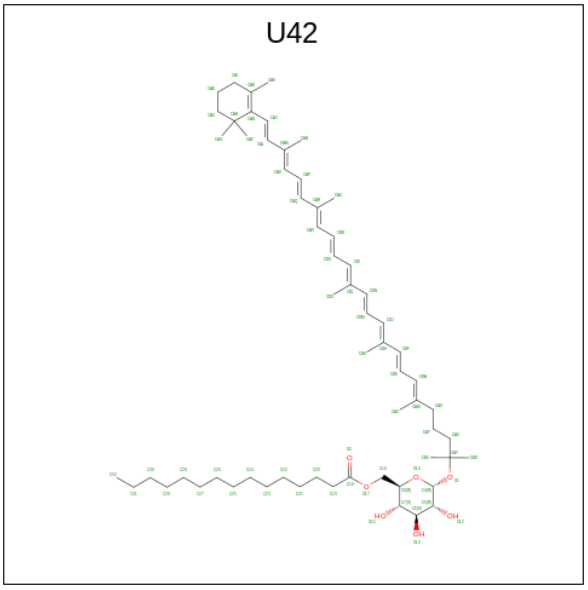
Mol	Chain	Residues	Atoms					AltConf
9	U	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	U	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	V	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	W	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
9	W	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

- Molecule 10 is [(2 {R},3 {S},4 {S},5 {R},6 {R})-6-[(6 {E},8 {E},10 {E},12 {E},14 {E},16 {E},18 {E},20 {E},22 {E},24 {E})-2,6,10,14,19,23-hexamethyl-25-(2,6,6-trimethylcyclohexen-1-yl)pentacosa-6,8,10,12,14,16,18,20,22,24-decaen-2-yl]oxy-3,4,5-tris(oxidanyl)oxan-2-yl]methyl pentadecanoate (three-letter code: U42) (formula: $C_{61}H_{96}O_7$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
10	0	1	Total	C	O	0
			68	61	7	
10	4	1	Total	C	O	0
			68	61	7	
10	4	1	Total	C	O	0
			68	61	7	
10	8	1	Total	C	O	0
			68	61	7	

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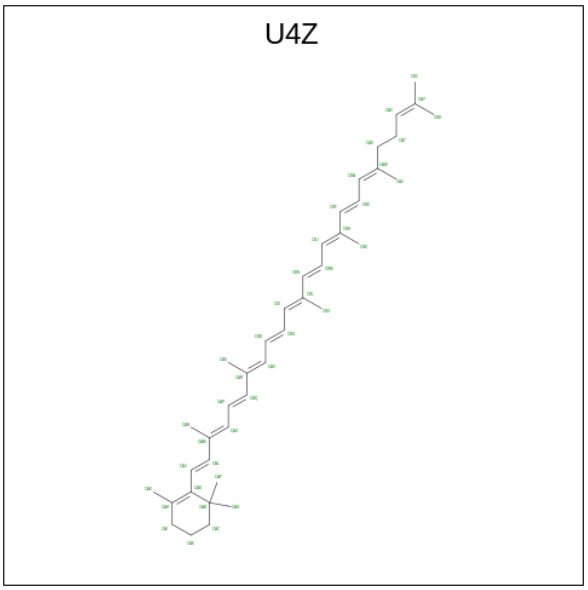
Mol	Chain	Residues	Atoms	AltConf
10	B	1	Total C O 68 61 7	0
10	E	1	Total C O 68 61 7	0
10	G	1	Total C O 68 61 7	0
10	I	1	Total C O 68 61 7	0
10	I	1	Total C O 68 61 7	0
10	O	1	Total C O 68 61 7	0
10	Q	1	Total C O 68 61 7	0
10	S	1	Total C O 68 61 7	0
10	U	1	Total C O 68 61 7	0
10	U	1	Total C O 68 61 7	0

- Molecule 11 is gamma-Carotene (three-letter code: U4Z) (formula: $C_{40}H_{56}$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
11	1	1	Total C 40 40	0

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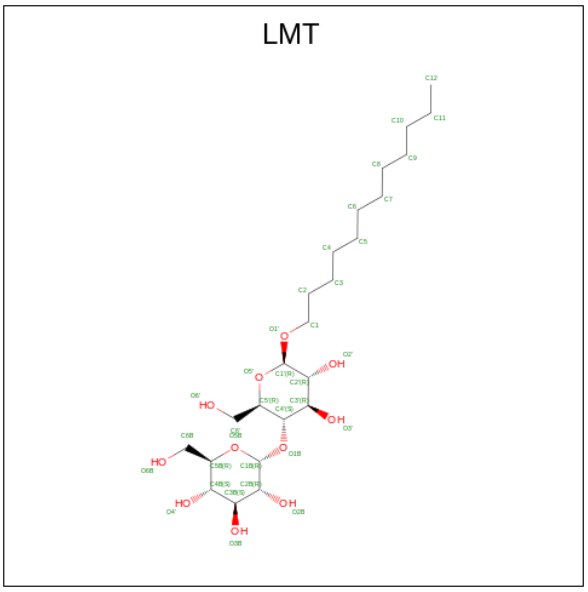
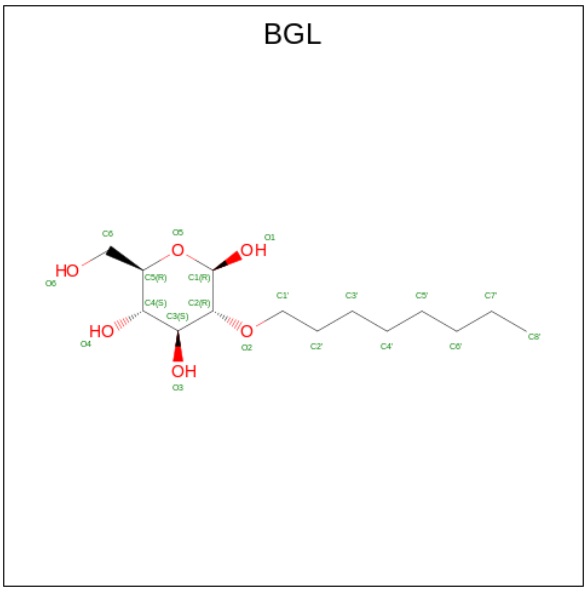
Mol	Chain	Residues	Atoms	AltConf
11	3	1	Total C 40 40	0
11	5	1	Total C 40 40	0
11	7	1	Total C 40 40	0
11	9	1	Total C 40 40	0
11	A	1	Total C 40 40	0
11	C	1	Total C 40 40	0
11	D	1	Total C 40 40	0
11	F	1	Total C 40 40	0
11	H	1	Total C 40 40	0
11	J	1	Total C 40 40	0
11	N	1	Total C 40 40	0
11	P	1	Total C 40 40	0
11	S	1	Total C 40 40	0
11	T	1	Total C 40 40	0
11	V	1	Total C 40 40	0

- Molecule 12 is DODECYL-BETA-D-MALTOSIDE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).



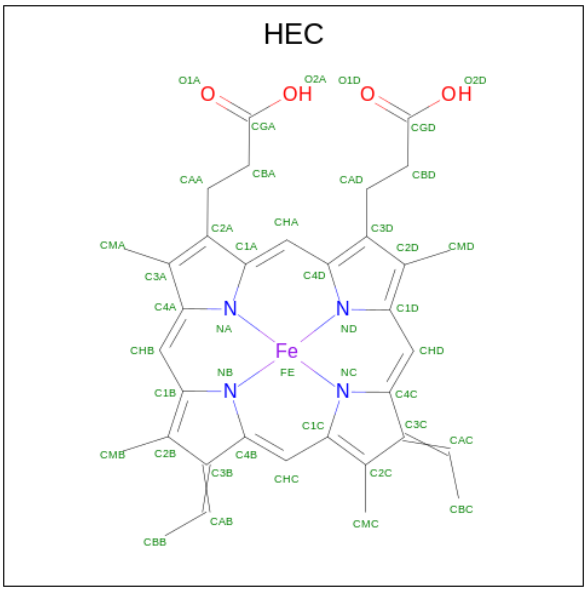
Mol	Chain	Residues	Atoms			AltConf
12	1	1	Total	C	O	0
			35	24	11	
12	D	1	Total	C	O	0
			35	24	11	
12	T	1	Total	C	O	0
			35	24	11	

- Molecule 13 is 2-O-octyl-beta-D-glucopyranose (three-letter code: BGL) (formula: $C_{14}H_{28}O_6$).



Mol	Chain	Residues	Atoms			AltConf
13	3	1	Total	C	O	0
			20	14	6	
13	C	1	Total	C	O	0
			20	14	6	
13	C	1	Total	C	O	0
			20	14	6	
13	D	1	Total	C	O	0
			20	14	6	
13	F	1	Total	C	O	0
			20	14	6	
13	H	1	Total	C	O	0
			20	14	6	
13	H	1	Total	C	O	0
			20	14	6	
13	L	1	Total	C	O	0
			20	14	6	
13	L	1	Total	C	O	0
			20	14	6	
13	L	1	Total	C	O	0
			20	14	6	
13	L	1	Total	C	O	0
			20	14	6	
13	N	1	Total	C	O	0
			20	14	6	
13	Y	1	Total	C	O	0
			20	14	6	

- Molecule 14 is HEME C (three-letter code: HEC) (formula: $C_{34}H_{34}FeN_4O_4$) (labeled as "Ligand of Interest" by depositor).

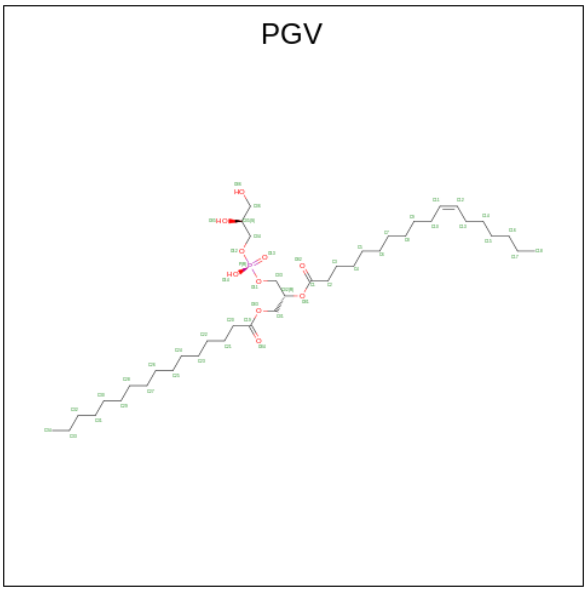


Mol	Chain	Residues	Atoms					AltConf
14	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
14	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
14	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
14	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	

- Molecule 15 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
15	C	1	Total	Ca	0
			1	1	

- Molecule 16 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
16	C	1	Total	C	O	P	0
			41	30	10	1	
16	C	1	Total	C	O	P	0
			51	40	10	1	
16	L	1	Total	C	O	P	0
			51	40	10	1	
16	L	1	Total	C	O	P	0
			51	40	10	1	
16	L	1	Total	C	O	P	0
			51	40	10	1	
16	M	1	Total	C	O	P	0
			51	40	10	1	
16	M	1	Total	C	O	P	0
			51	40	10	1	
16	P	1	Total	C	O	P	0
			43	32	10	1	
16	P	1	Total	C	O	P	0
			51	40	10	1	

- Molecule 17 is UNKNOWN LIGAND (three-letter code: UNL) (formula:).

Mol	Chain	Residues	Atoms		AltConf
17	C	2	Total	C	0
			34	34	
17	H	4	Total	C	0
			52	52	
17	L	4	Total	C	0
			48	48	

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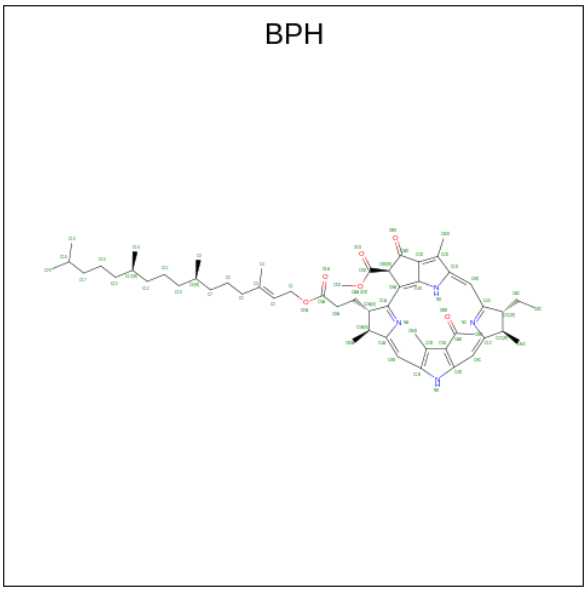
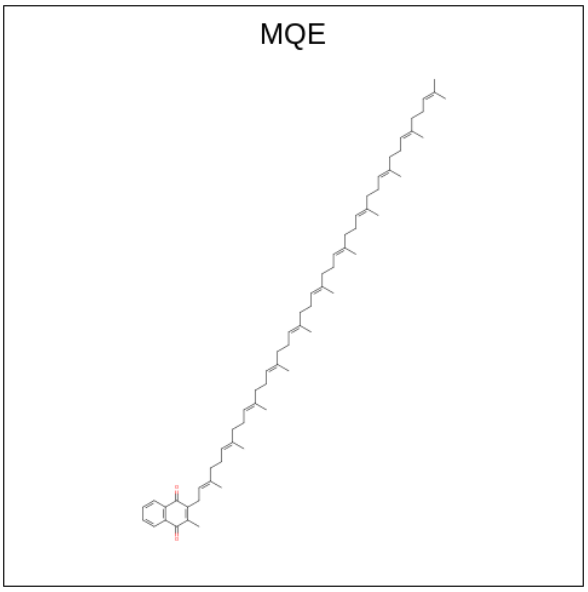
Mol	Chain	Residues	Atoms	AltConf
17	M	1	Total C 12 12	0
17	V	3	Total C 33 33	0
17	Y	1	Total C 14 14	0
17	h	2	Total C 24 24	0

- Molecule 18 is BACTERIOPHEOPHYTIN A (three-letter code: BPH) (formula: $C_{55}H_{76}N_4O_6$) (labeled as "Ligand of Interest" by depositor).



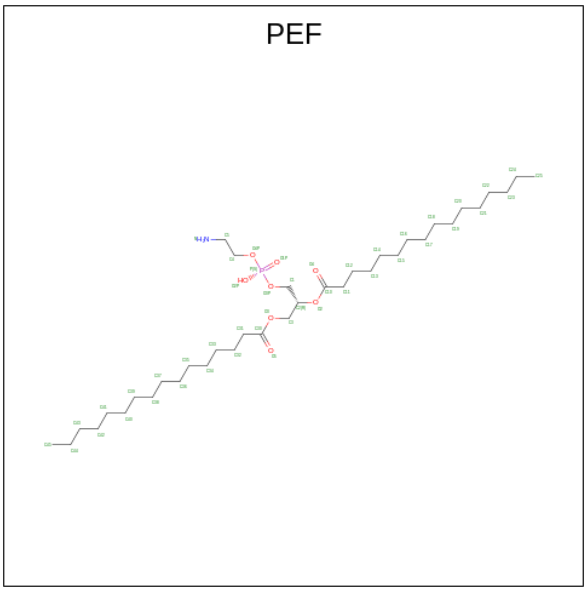
Mol	Chain	Residues	Atoms	AltConf
18	L	1	Total C N O 65 55 4 6	0
18	L	1	Total C N O 65 55 4 6	0
18	M	1	Total C N O 65 55 4 6	0

- Molecule 19 is 2-methyl-3-[(2E,6E,10E,14E,18E,22E,26E,30E,34E,38E)-3,7,11,15,19,23,27,31,35,39,43-undecamethyltetratetraconta-2,6,10,1 4,18,22,26,30,34,38,42-undecaen-1-yl]naphthalene-1,4-dione (three-letter code: MQE) (formula: $C_{66}H_{96}O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
19	L	1	Total 53	C 51	O 2	0
19	M	1	Total 68	C 66	O 2	0

- Molecule 20 is DI-PALMITOYL-3-SN-PHOSPHATIDYLETHANOLAMINE (three-letter code: PEF) (formula: $C_{37}H_{74}NO_8P$).

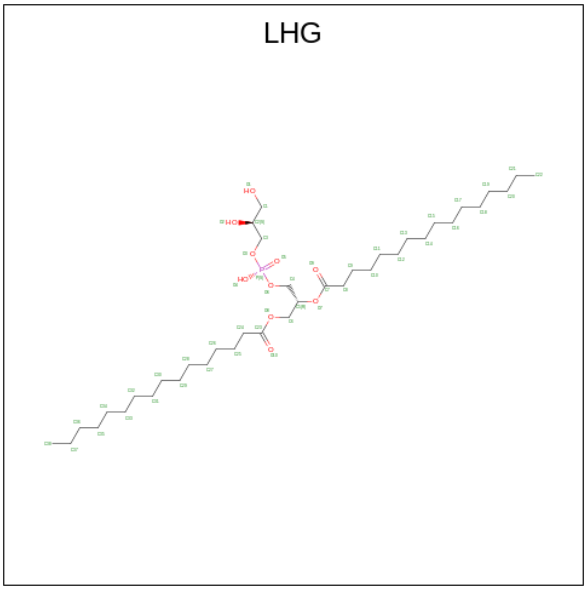


Mol	Chain	Residues	Atoms					AltConf
20	L	1	Total 41	C 31	N 1	O 8	P 1	0

- Molecule 21 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn).

Mol	Chain	Residues	Atoms		AltConf
			Total	Mn	
21	M	1	1	1	0

- Molecule 22 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$).



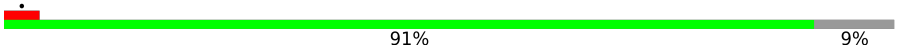
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
22	h	1	17	16	1	0

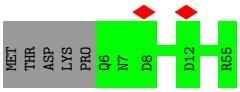
3 Residue-property plots (i)

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: Antenna complex alpha/beta subunit

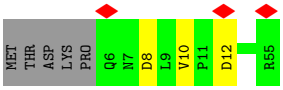
Chain 0:





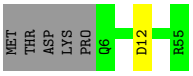
• Molecule 1: Antenna complex alpha/beta subunit

Chain 2:



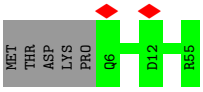
• Molecule 1: Antenna complex alpha/beta subunit

Chain 4:



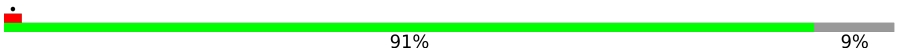
• Molecule 1: Antenna complex alpha/beta subunit

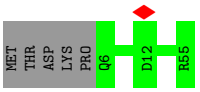
Chain 6:



• Molecule 1: Antenna complex alpha/beta subunit

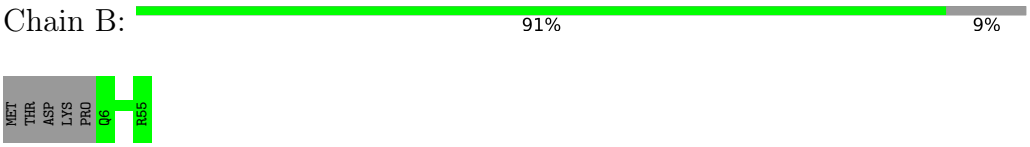
Chain 8:





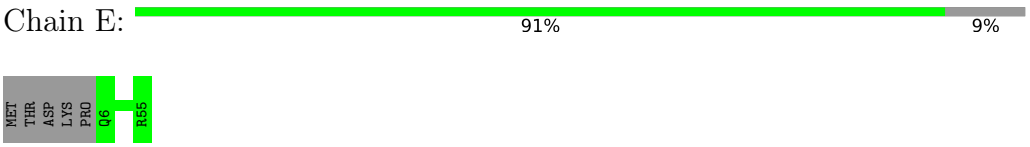
• Molecule 1: Antenna complex alpha/beta subunit

Chain B:



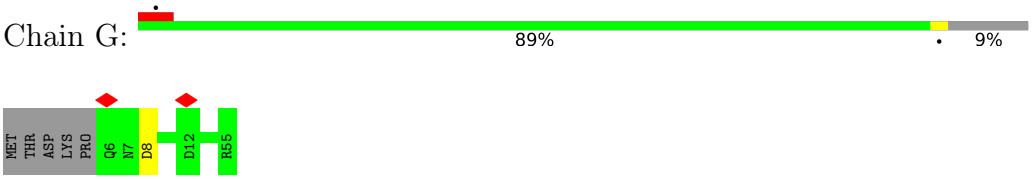
• Molecule 1: Antenna complex alpha/beta subunit

Chain E:



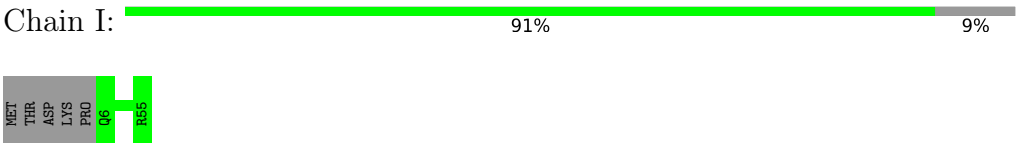
• Molecule 1: Antenna complex alpha/beta subunit

Chain G:



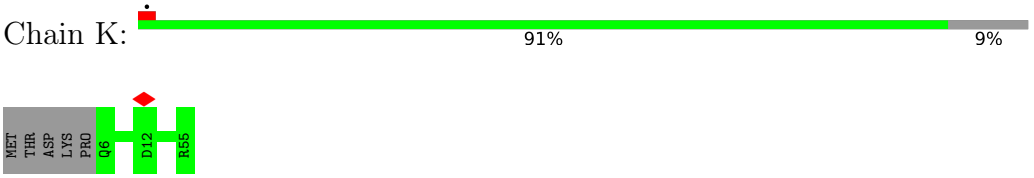
• Molecule 1: Antenna complex alpha/beta subunit

Chain I:



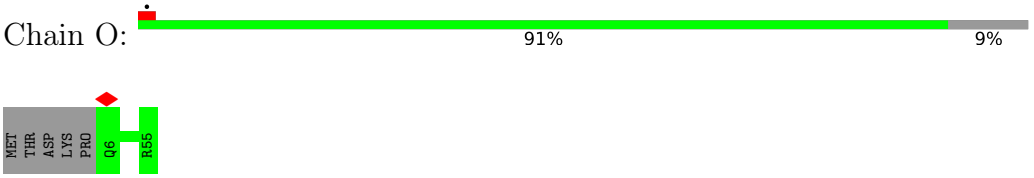
• Molecule 1: Antenna complex alpha/beta subunit

Chain K:



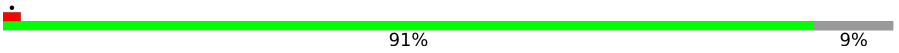
• Molecule 1: Antenna complex alpha/beta subunit

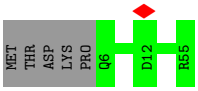
Chain O:



• Molecule 1: Antenna complex alpha/beta subunit

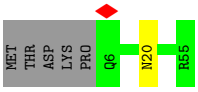
Chain Q:





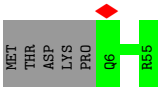
• Molecule 1: Antenna complex alpha/beta subunit

Chain S:



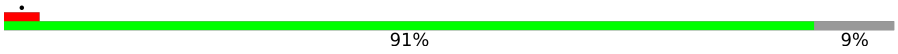
• Molecule 1: Antenna complex alpha/beta subunit

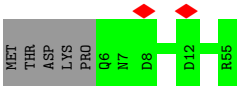
Chain U:



• Molecule 1: Antenna complex alpha/beta subunit

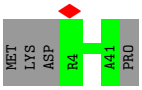
Chain W:





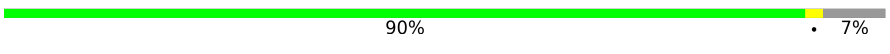
• Molecule 2: Alpha subunit of light-harvesting 1

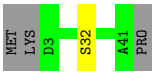
Chain 1:



• Molecule 2: Alpha subunit of light-harvesting 1

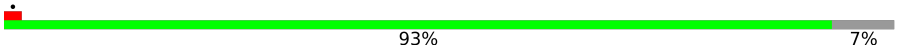
Chain 3:

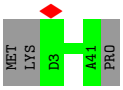




• Molecule 2: Alpha subunit of light-harvesting 1

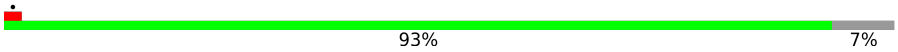
Chain 5:

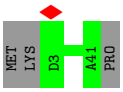




• Molecule 2: Alpha subunit of light-harvesting 1

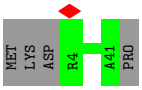
Chain 7:





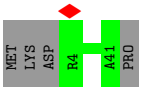
• Molecule 2: Alpha subunit of light-harvesting 1

Chain 9:



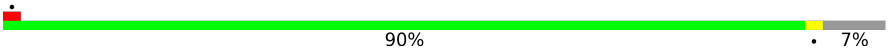
• Molecule 2: Alpha subunit of light-harvesting 1

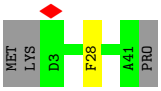
Chain A:



• Molecule 2: Alpha subunit of light-harvesting 1

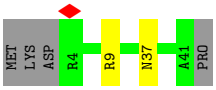
Chain D:





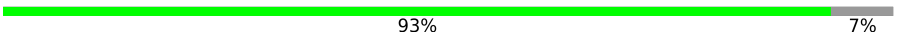
• Molecule 2: Alpha subunit of light-harvesting 1

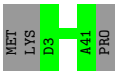
Chain F:



• Molecule 2: Alpha subunit of light-harvesting 1

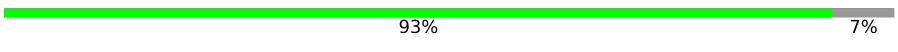
Chain H:

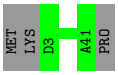




• Molecule 2: Alpha subunit of light-harvesting 1

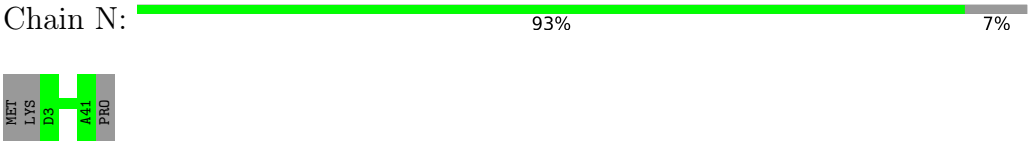
Chain J:





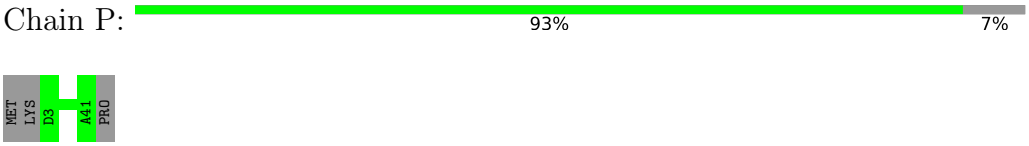
• Molecule 2: Alpha subunit of light-harvesting 1

Chain N:



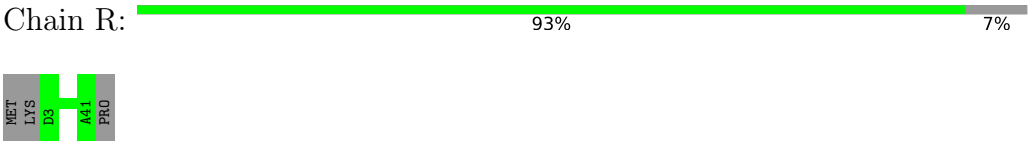
• Molecule 2: Alpha subunit of light-harvesting 1

Chain P:



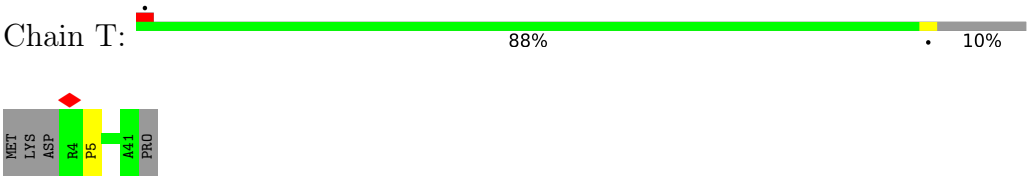
• Molecule 2: Alpha subunit of light-harvesting 1

Chain R:



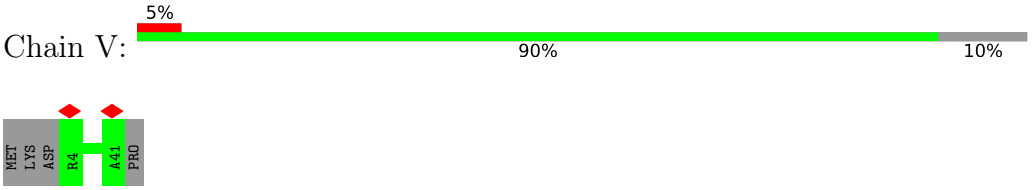
• Molecule 2: Alpha subunit of light-harvesting 1

Chain T:



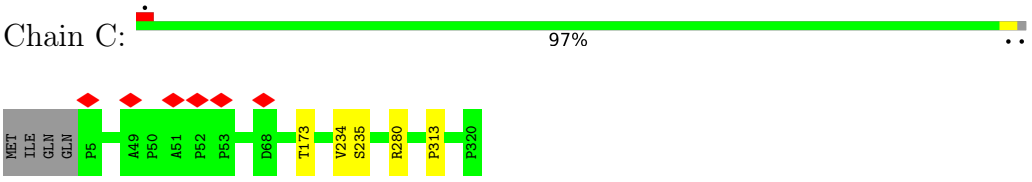
• Molecule 2: Alpha subunit of light-harvesting 1

Chain V:



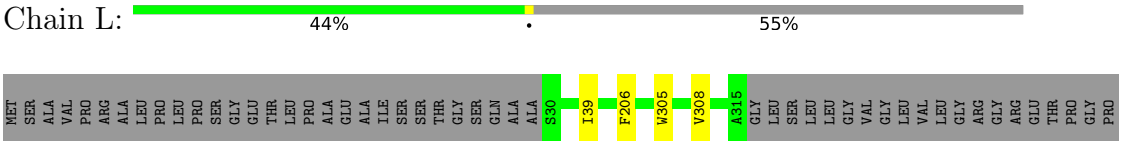
• Molecule 3: Cytochrome subunit of photosynthetic reaction center

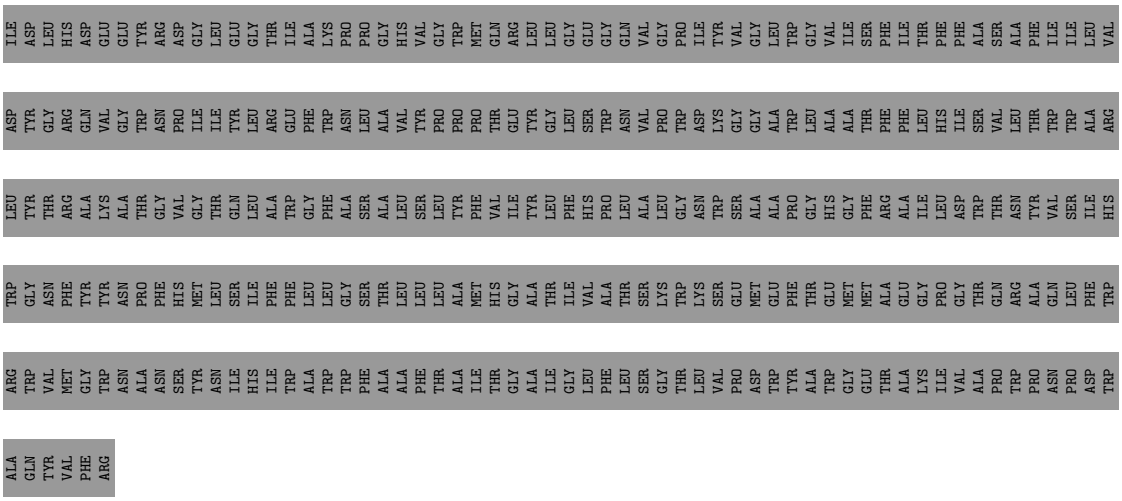
Chain C:



• Molecule 4: Reaction center protein L chain

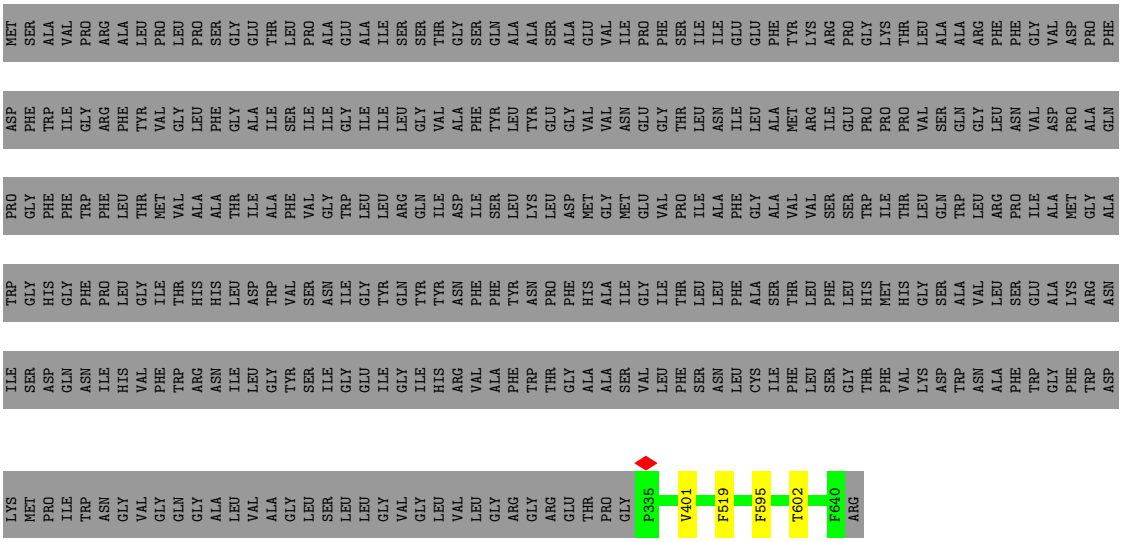
Chain L:





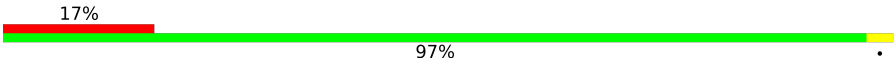
• Molecule 4: Reaction center protein L chain

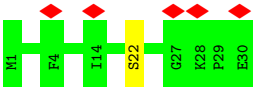
Chain M:



• Molecule 5: TMx polypeptide

Chain X:





• Molecule 6: reaction center small polypeptide

Chain Y:

• Molecule 7: reaction center unknown polypeptide

Chain Z:

There are no outlier residues recorded for this chain.

• Molecule 8: reaction center small polypeptide

Chain h:

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	639374	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	58	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	2.066	Depositor
Minimum map value	-1.238	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.047	Depositor
Recommended contour level	0.226	Depositor
Map size (Å)	320.4, 320.4, 320.4	wwPDB
Map dimensions	360, 360, 360	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.89, 0.89, 0.89	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: LMT, CA, BPH, BGL, HEC, PEF, BCL, PGV, MQE, MN, U4Z, LHG, U42, UNL

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	0	0.29	0/432	0.42	0/597
1	2	0.30	0/432	0.43	0/597
1	4	0.31	0/432	0.45	0/597
1	6	0.31	0/432	0.44	0/597
1	8	0.31	0/432	0.45	0/597
1	B	0.28	0/432	0.42	0/597
1	E	0.29	0/432	0.43	0/597
1	G	0.30	0/432	0.43	0/597
1	I	0.30	0/432	0.42	0/597
1	K	0.30	0/432	0.43	0/597
1	O	0.29	0/432	0.42	0/597
1	Q	0.30	0/432	0.43	0/597
1	S	0.31	0/432	0.42	0/597
1	U	0.29	0/432	0.42	0/597
1	W	0.28	0/432	0.40	0/597
2	1	0.28	0/307	0.52	0/417
2	3	0.29	0/315	0.51	0/428
2	5	0.33	0/315	0.54	0/428
2	7	0.30	0/315	0.52	0/428
2	9	0.29	0/307	0.50	0/417
2	A	0.29	0/307	0.52	0/417
2	D	0.28	0/315	0.49	0/428
2	F	0.29	0/307	0.53	0/417
2	H	0.40	0/315	0.53	0/428
2	J	0.35	0/315	0.56	0/428
2	N	0.28	0/315	0.48	0/428
2	P	0.30	0/315	0.52	0/428
2	R	0.34	0/315	0.51	0/428
2	T	0.78	1/307 (0.3%)	0.56	0/417
2	V	0.28	0/307	0.50	0/417
3	C	0.63	1/2477 (0.0%)	0.52	1/3383 (0.0%)
4	L	0.35	0/2360	0.54	0/3220

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
4	M	0.32	0/2597	0.49	0/3566
5	X	0.29	0/253	0.37	0/341
6	Y	0.29	0/268	0.43	0/370
7	Z	0.67	0/51	0.94	0/70
8	h	0.30	0/374	0.48	0/513
All	All	0.38	2/19537 (0.0%)	0.49	1/26772 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	313	PRO	N-CD	-26.93	1.10	1.47
2	T	5	PRO	N-CD	-12.60	1.30	1.47

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	313	PRO	CA-N-CD	5.91	119.98	111.70

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	0	48/55 (87%)	47 (98%)	1 (2%)	0	100	100
1	2	48/55 (87%)	47 (98%)	1 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	4	48/55 (87%)	47 (98%)	1 (2%)	0	100	100
1	6	48/55 (87%)	47 (98%)	1 (2%)	0	100	100
1	8	48/55 (87%)	44 (92%)	4 (8%)	0	100	100
1	B	48/55 (87%)	47 (98%)	1 (2%)	0	100	100
1	E	48/55 (87%)	47 (98%)	1 (2%)	0	100	100
1	G	48/55 (87%)	46 (96%)	2 (4%)	0	100	100
1	I	48/55 (87%)	46 (96%)	2 (4%)	0	100	100
1	K	48/55 (87%)	47 (98%)	1 (2%)	0	100	100
1	O	48/55 (87%)	47 (98%)	1 (2%)	0	100	100
1	Q	48/55 (87%)	47 (98%)	1 (2%)	0	100	100
1	S	48/55 (87%)	46 (96%)	2 (4%)	0	100	100
1	U	48/55 (87%)	46 (96%)	2 (4%)	0	100	100
1	W	48/55 (87%)	46 (96%)	2 (4%)	0	100	100
2	1	36/42 (86%)	34 (94%)	2 (6%)	0	100	100
2	3	37/42 (88%)	36 (97%)	1 (3%)	0	100	100
2	5	37/42 (88%)	35 (95%)	2 (5%)	0	100	100
2	7	37/42 (88%)	34 (92%)	3 (8%)	0	100	100
2	9	36/42 (86%)	36 (100%)	0	0	100	100
2	A	36/42 (86%)	33 (92%)	3 (8%)	0	100	100
2	D	37/42 (88%)	37 (100%)	0	0	100	100
2	F	36/42 (86%)	35 (97%)	1 (3%)	0	100	100
2	H	37/42 (88%)	37 (100%)	0	0	100	100
2	J	37/42 (88%)	37 (100%)	0	0	100	100
2	N	37/42 (88%)	34 (92%)	3 (8%)	0	100	100
2	P	37/42 (88%)	35 (95%)	2 (5%)	0	100	100
2	R	37/42 (88%)	36 (97%)	1 (3%)	0	100	100
2	T	36/42 (86%)	36 (100%)	0	0	100	100
2	V	36/42 (86%)	33 (92%)	3 (8%)	0	100	100
3	C	314/320 (98%)	302 (96%)	12 (4%)	0	100	100
4	L	284/641 (44%)	269 (95%)	15 (5%)	0	100	100
4	M	304/641 (47%)	293 (96%)	11 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	X	29/30 (97%)	28 (97%)	1 (3%)	0	100	100
6	Y	30/39 (77%)	29 (97%)	1 (3%)	0	100	100
7	Z	8/10 (80%)	6 (75%)	2 (25%)	0	100	100
8	h	45/63 (71%)	45 (100%)	0	0	100	100
All	All	2283/3199 (71%)	2197 (96%)	86 (4%)	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	0	44/49 (90%)	44 (100%)	0	100	100
1	2	44/49 (90%)	41 (93%)	3 (7%)	13	27
1	4	44/49 (90%)	43 (98%)	1 (2%)	45	70
1	6	44/49 (90%)	44 (100%)	0	100	100
1	8	44/49 (90%)	44 (100%)	0	100	100
1	B	44/49 (90%)	44 (100%)	0	100	100
1	E	44/49 (90%)	44 (100%)	0	100	100
1	G	44/49 (90%)	43 (98%)	1 (2%)	45	70
1	I	44/49 (90%)	44 (100%)	0	100	100
1	K	44/49 (90%)	44 (100%)	0	100	100
1	O	44/49 (90%)	44 (100%)	0	100	100
1	Q	44/49 (90%)	44 (100%)	0	100	100
1	S	44/49 (90%)	43 (98%)	1 (2%)	45	70
1	U	44/49 (90%)	44 (100%)	0	100	100
1	W	44/49 (90%)	44 (100%)	0	100	100
2	1	33/37 (89%)	33 (100%)	0	100	100
2	3	34/37 (92%)	33 (97%)	1 (3%)	37	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	5	34/37 (92%)	34 (100%)	0	100	100
2	7	34/37 (92%)	34 (100%)	0	100	100
2	9	33/37 (89%)	33 (100%)	0	100	100
2	A	33/37 (89%)	33 (100%)	0	100	100
2	D	34/37 (92%)	33 (97%)	1 (3%)	37	63
2	F	33/37 (89%)	31 (94%)	2 (6%)	15	31
2	H	34/37 (92%)	34 (100%)	0	100	100
2	J	34/37 (92%)	34 (100%)	0	100	100
2	N	34/37 (92%)	34 (100%)	0	100	100
2	P	34/37 (92%)	34 (100%)	0	100	100
2	R	34/37 (92%)	34 (100%)	0	100	100
2	T	33/37 (89%)	33 (100%)	0	100	100
2	V	33/37 (89%)	33 (100%)	0	100	100
3	C	258/262 (98%)	254 (98%)	4 (2%)	58	79
4	L	232/511 (45%)	228 (98%)	4 (2%)	56	78
4	M	244/511 (48%)	240 (98%)	4 (2%)	58	79
5	X	27/26 (104%)	26 (96%)	1 (4%)	29	54
6	Y	29/36 (81%)	29 (100%)	0	100	100
7	Z	1/1 (100%)	1 (100%)	0	100	100
8	h	36/50 (72%)	35 (97%)	1 (3%)	38	64
All	All	1991/2687 (74%)	1967 (99%)	24 (1%)	66	84

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	2	8	ASP
1	2	10	VAL
1	2	12	ASP
2	3	32	SER
1	4	12	ASP
3	C	173	THR
3	C	234	VAL
3	C	235	SER
3	C	280	ARG
2	D	28	PHE

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Mol	Chain	Res	Type
2	F	9	ARG
2	F	37	ASN
1	G	8	ASP
4	L	39	ILE
4	L	206	PHE
4	L	305	TRP
4	L	308	VAL
4	M	401	VAL
4	M	519	PHE
4	M	595	PHE
4	M	602	THR
1	S	20	ASN
5	X	22	SER
8	h	18	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	O	7	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 133 ligands modelled in this entry, 2 are monoatomic and 17 are unknown - leaving 114 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	U4Z	1	102	-	40,40,40	1.77	9 (22%)	50,51,51	1.68	14 (28%)
11	U4Z	N	102	-	40,40,40	1.86	9 (22%)	50,51,51	1.72	12 (24%)
13	BGL	L	1015	-	20,20,20	1.06	2 (10%)	24,25,25	1.09	2 (8%)
13	BGL	C	410	-	20,20,20	0.99	1 (5%)	24,25,25	0.91	0
10	U42	0	103	-	69,69,69	2.39	16 (23%)	86,89,89	2.48	29 (33%)
9	BCL	A	101	-	64,74,74	1.74	14 (21%)	78,115,115	2.27	20 (25%)
9	BCL	T	101	-	64,74,74	1.66	12 (18%)	78,115,115	2.25	21 (26%)
9	BCL	O	102	-	64,74,74	1.69	12 (18%)	78,115,115	2.25	23 (29%)
9	BCL	K	101	-	64,74,74	1.72	11 (17%)	78,115,115	2.13	21 (26%)
11	U4Z	J	102	-	40,40,40	1.83	9 (22%)	50,51,51	1.74	13 (26%)
19	MQE	M	704	-	69,69,69	0.33	0	84,87,87	0.74	2 (2%)
9	BCL	7	101	-	64,74,74	1.69	12 (18%)	78,115,115	2.19	18 (23%)
9	BCL	S	102	-	64,74,74	1.71	13 (20%)	78,115,115	2.26	24 (30%)
10	U42	S	101	-	69,69,69	2.20	19 (27%)	86,89,89	2.15	22 (25%)
16	PGV	P	104	-	50,50,50	0.49	0	53,56,56	0.48	0
13	BGL	3	103	-	20,20,20	1.04	1 (5%)	24,25,25	0.80	0
9	BCL	4	103	-	64,74,74	1.71	14 (21%)	78,115,115	2.56	26 (33%)
10	U42	4	101	-	69,69,69	2.08	21 (30%)	86,89,89	1.82	21 (24%)
13	BGL	F	104	-	20,20,20	0.99	1 (5%)	24,25,25	0.94	0
9	BCL	D	102	-	64,74,74	1.70	12 (18%)	78,115,115	2.14	22 (28%)
11	U4Z	V	102	-	40,40,40	1.84	9 (22%)	50,51,51	1.77	13 (26%)
16	PGV	M	705	-	50,50,50	0.49	0	53,56,56	0.48	0
9	BCL	W	102	-	64,74,74	1.67	13 (20%)	78,115,115	2.43	21 (26%)
9	BCL	N	101	-	64,74,74	1.67	10 (15%)	78,115,115	2.20	20 (25%)
9	BCL	6	102	-	64,74,74	1.68	13 (20%)	78,115,115	2.44	19 (24%)
11	U4Z	T	102	-	40,40,40	1.78	9 (22%)	50,51,51	1.70	12 (24%)
9	BCL	I	102	-	64,74,74	1.69	12 (18%)	78,115,115	2.28	19 (24%)
16	PGV	C	408	15	50,50,50	0.54	0	53,56,56	0.51	0
9	BCL	W	101	-	64,74,74	1.74	14 (21%)	78,115,115	2.16	21 (26%)
13	BGL	C	409	-	20,20,20	1.01	1 (5%)	24,25,25	0.89	0
11	U4Z	P	102	-	40,40,40	1.78	9 (22%)	50,51,51	1.68	12 (24%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
10	U42	E	101	-	69,69,69	2.28	19 (27%)	86,89,89	1.90	20 (23%)
10	U42	Q	101	-	69,69,69	2.14	20 (28%)	86,89,89	2.03	25 (29%)
11	U4Z	3	102	-	40,40,40	1.80	9 (22%)	50,51,51	1.71	13 (26%)
9	BCL	8	102	-	64,74,74	1.70	13 (20%)	78,115,115	2.05	20 (25%)
9	BCL	M	701	-	64,74,74	1.74	14 (21%)	78,115,115	2.39	23 (29%)
9	BCL	K	102	-	64,74,74	1.76	16 (25%)	78,115,115	2.50	25 (32%)
10	U42	8	101	-	69,69,69	2.13	13 (18%)	86,89,89	2.31	21 (24%)
13	BGL	D	104	-	20,20,20	1.03	1 (5%)	24,25,25	0.78	0
9	BCL	U	102	-	64,74,74	1.69	12 (18%)	78,115,115	2.13	21 (26%)
10	U42	U	101	-	69,69,69	2.02	16 (23%)	86,89,89	2.22	22 (25%)
11	U4Z	H	102	-	40,40,40	1.81	9 (22%)	50,51,51	1.69	12 (24%)
11	U4Z	F	103	-	40,40,40	1.83	9 (22%)	50,51,51	1.72	12 (24%)
9	BCL	S	103	-	64,74,74	1.68	14 (21%)	78,115,115	2.48	26 (33%)
13	BGL	N	103	-	20,20,20	1.00	1 (5%)	24,25,25	0.86	0
18	BPH	L	1003	-	51,70,70	1.81	7 (13%)	52,101,101	2.11	11 (21%)
16	PGV	L	1008	-	50,50,50	0.49	0	53,56,56	0.45	0
10	U42	G	101	-	69,69,69	2.02	25 (36%)	86,89,89	2.29	13 (15%)
11	U4Z	9	101	-	40,40,40	1.80	9 (22%)	50,51,51	1.71	13 (26%)
9	BCL	O	103	-	64,74,74	1.67	12 (18%)	78,115,115	2.43	19 (24%)
9	BCL	4	102	-	64,74,74	1.72	13 (20%)	78,115,115	2.15	21 (26%)
9	BCL	2	102	-	64,74,74	1.74	17 (26%)	78,115,115	2.30	21 (26%)
12	LMT	T	103	-	36,36,36	0.47	0	47,47,47	0.96	2 (4%)
10	U42	O	101	-	69,69,69	2.40	17 (24%)	86,89,89	2.03	20 (23%)
11	U4Z	S	104	-	40,40,40	1.83	9 (22%)	50,51,51	1.74	12 (24%)
9	BCL	F	102	-	64,74,74	1.71	12 (18%)	78,115,115	2.10	21 (26%)
12	LMT	1	103	-	36,36,36	0.39	0	47,47,47	0.72	1 (2%)
14	HEC	C	402	3	32,50,50	2.17	3 (9%)	24,82,82	1.43	3 (12%)
9	BCL	1	101	-	64,74,74	1.65	11 (17%)	78,115,115	2.38	20 (25%)
11	U4Z	A	102	-	40,40,40	1.80	9 (22%)	50,51,51	1.74	12 (24%)
9	BCL	6	101	-	64,74,74	1.70	13 (20%)	78,115,115	2.14	21 (26%)
11	U4Z	D	103	-	40,40,40	1.83	9 (22%)	50,51,51	1.71	13 (26%)
9	BCL	H	101	-	64,74,74	1.67	12 (18%)	78,115,115	2.39	22 (28%)
16	PGV	L	1007	-	50,50,50	0.49	0	53,56,56	0.48	0
18	BPH	M	702	-	51,70,70	0.54	0	52,101,101	0.79	1 (1%)
9	BCL	Q	102	-	64,74,74	1.71	13 (20%)	78,115,115	2.16	21 (26%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
22	LHG	h	101	-	16,16,48	1.05	1 (6%)	15,15,54	0.34	0
13	BGL	L	1013	-	20,20,20	0.96	1 (5%)	24,25,25	0.90	0
12	LMT	D	105	-	36,36,36	0.41	0	47,47,47	0.78	1 (2%)
9	BCL	0	102	-	64,74,74	1.67	12 (18%)	78,115,115	2.44	22 (28%)
16	PGV	L	1006	-	50,50,50	0.51	0	53,56,56	0.44	0
19	MQE	L	1004	-	54,54,69	0.38	0	66,69,87	0.81	3 (4%)
13	BGL	H	107	-	20,20,20	1.04	1 (5%)	24,25,25	0.81	0
9	BCL	P	101	-	64,74,74	1.74	14 (21%)	78,115,115	2.23	22 (28%)
9	BCL	9	102	-	64,74,74	1.66	11 (17%)	78,115,115	2.29	22 (28%)
9	BCL	R	101	-	64,74,74	1.68	11 (17%)	78,115,115	2.23	21 (26%)
9	BCL	8	103	-	64,74,74	1.70	14 (21%)	78,115,115	2.28	23 (29%)
14	HEC	C	404	3	32,50,50	2.12	3 (9%)	24,82,82	1.63	3 (12%)
9	BCL	2	101	-	64,74,74	1.71	12 (18%)	78,115,115	2.22	22 (28%)
9	BCL	V	101	-	64,74,74	1.65	12 (18%)	78,115,115	2.09	21 (26%)
18	BPH	L	1005	-	51,70,70	0.61	1 (1%)	52,101,101	0.75	1 (1%)
16	PGV	C	407	-	40,40,50	0.55	0	42,46,56	0.52	0
9	BCL	B	103	-	64,74,74	1.69	14 (21%)	78,115,115	2.41	22 (28%)
16	PGV	P	103	-	42,42,50	0.55	0	45,48,56	0.53	0
16	PGV	M	706	-	50,50,50	0.49	0	53,56,56	0.53	0
14	HEC	C	403	3	32,50,50	2.12	3 (9%)	24,82,82	1.65	4 (16%)
9	BCL	0	101	-	64,74,74	1.72	13 (20%)	78,115,115	2.16	19 (24%)
10	U42	B	101	-	69,69,69	2.11	20 (28%)	86,89,89	2.13	21 (24%)
10	U42	I	101	-	69,69,69	2.31	24 (34%)	86,89,89	2.55	19 (22%)
9	BCL	G	102	-	64,74,74	1.68	13 (20%)	78,115,115	2.40	25 (32%)
13	BGL	L	1012	-	20,20,20	1.03	1 (5%)	24,25,25	0.76	0
9	BCL	B	102	-	64,74,74	1.69	12 (18%)	78,115,115	2.14	19 (24%)
13	BGL	Y	101	-	20,20,20	1.01	1 (5%)	24,25,25	0.77	0
9	BCL	J	101	-	64,74,74	1.67	11 (17%)	78,115,115	2.32	22 (28%)
20	PEF	L	1017	-	40,40,46	1.03	2 (5%)	43,45,51	1.06	2 (4%)
9	BCL	Q	103	-	64,74,74	1.68	13 (20%)	78,115,115	2.45	21 (26%)
11	U4Z	5	102	-	40,40,40	1.80	9 (22%)	50,51,51	1.70	12 (24%)
10	U42	4	104	-	69,69,69	1.81	18 (26%)	86,89,89	2.29	26 (30%)
13	BGL	L	1011	-	20,20,20	1.08	1 (5%)	24,25,25	0.92	1 (4%)
14	HEC	C	405	3	32,50,50	2.12	3 (9%)	24,82,82	1.55	2 (8%)
11	U4Z	C	401	-	40,40,40	1.76	12 (30%)	50,51,51	2.31	17 (34%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
9	BCL	E	102	-	64,74,74	1.72	14 (21%)	78,115,115	2.42	21 (26%)
13	BGL	H	103	-	20,20,20	1.00	1 (5%)	24,25,25	0.80	0
11	U4Z	7	102	-	40,40,40	1.79	10 (25%)	50,51,51	1.70	12 (24%)
9	BCL	U	103	-	64,74,74	1.66	13 (20%)	78,115,115	2.40	18 (23%)
9	BCL	L	1002	-	64,74,74	1.71	13 (20%)	78,115,115	2.28	21 (26%)
9	BCL	I	103	-	64,74,74	1.70	14 (21%)	78,115,115	2.41	21 (26%)
9	BCL	5	101	-	64,74,74	1.69	11 (17%)	78,115,115	2.25	23 (29%)
9	BCL	3	101	-	64,74,74	1.67	11 (17%)	78,115,115	2.22	22 (28%)
9	BCL	L	1001	-	64,74,74	1.70	13 (20%)	78,115,115	2.36	20 (25%)
10	U42	U	104	-	69,69,69	2.06	13 (18%)	86,89,89	2.29	27 (31%)
9	BCL	D	101	-	64,74,74	1.69	13 (20%)	78,115,115	2.37	23 (29%)
9	BCL	F	101	-	64,74,74	1.68	11 (17%)	78,115,115	2.25	23 (29%)
10	U42	I	104	-	69,69,69	2.05	20 (28%)	86,89,89	2.29	20 (23%)

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	U4Z	1	102	-	-	4/36/53/53	0/1/1/1
11	U4Z	N	102	-	-	2/36/53/53	0/1/1/1
13	BGL	L	1015	-	-	8/11/31/31	0/1/1/1
13	BGL	C	410	-	-	3/11/31/31	0/1/1/1
10	U42	0	103	-	-	13/61/98/98	0/2/2/2
9	BCL	A	101	-	-	12/37/137/137	-
9	BCL	T	101	-	-	12/37/137/137	-
9	BCL	O	102	-	-	12/37/137/137	-
9	BCL	K	101	-	-	12/37/137/137	-
11	U4Z	J	102	-	-	4/36/53/53	0/1/1/1
19	MQE	M	704	-	-	7/65/85/85	0/2/2/2
9	BCL	7	101	-	-	19/37/137/137	-
9	BCL	S	102	-	-	17/37/137/137	-
10	U42	S	101	-	-	23/61/98/98	0/2/2/2
16	PGV	P	104	-	-	21/55/55/55	-
13	BGL	3	103	-	-	4/11/31/31	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
9	BCL	4	103	-	-	15/37/137/137	-
10	U42	4	101	-	-	12/61/98/98	0/2/2/2
13	BGL	F	104	-	-	4/11/31/31	0/1/1/1
9	BCL	D	102	-	-	18/37/137/137	-
11	U4Z	V	102	-	-	4/36/53/53	0/1/1/1
16	PGV	M	705	-	-	31/55/55/55	-
9	BCL	W	102	-	-	18/37/137/137	-
9	BCL	N	101	-	-	20/37/137/137	-
9	BCL	6	102	-	-	19/37/137/137	-
11	U4Z	T	102	-	-	4/36/53/53	0/1/1/1
9	BCL	I	102	-	-	13/37/137/137	-
16	PGV	C	408	15	-	25/55/55/55	-
9	BCL	W	101	-	-	15/37/137/137	-
13	BGL	C	409	-	-	3/11/31/31	0/1/1/1
11	U4Z	P	102	-	-	4/36/53/53	0/1/1/1
10	U42	E	101	-	-	23/61/98/98	0/2/2/2
10	U42	Q	101	-	-	18/61/98/98	0/2/2/2
11	U4Z	3	102	-	-	4/36/53/53	0/1/1/1
9	BCL	8	102	-	-	14/37/137/137	-
9	BCL	M	701	-	-	24/37/137/137	-
9	BCL	K	102	-	-	14/37/137/137	-
10	U42	8	101	-	-	14/61/98/98	0/2/2/2
13	BGL	D	104	-	-	2/11/31/31	0/1/1/1
9	BCL	U	102	-	-	10/37/137/137	-
10	U42	U	101	-	-	22/61/98/98	0/2/2/2
11	U4Z	H	102	-	-	3/36/53/53	0/1/1/1
11	U4Z	F	103	-	-	4/36/53/53	0/1/1/1
9	BCL	S	103	-	-	24/37/137/137	-
13	BGL	N	103	-	-	5/11/31/31	0/1/1/1
18	BPH	L	1003	-	-	12/37/105/105	0/5/6/6
16	PGV	L	1008	-	-	24/55/55/55	-
10	U42	G	101	-	-	14/61/98/98	0/2/2/2
11	U4Z	9	101	-	-	2/36/53/53	0/1/1/1
9	BCL	O	103	-	-	16/37/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
9	BCL	4	102	-	-	13/37/137/137	-
9	BCL	2	102	-	-	21/37/137/137	-
12	LMT	T	103	-	-	11/21/61/61	0/2/2/2
10	U42	O	101	-	-	23/61/98/98	0/2/2/2
11	U4Z	S	104	-	-	3/36/53/53	0/1/1/1
9	BCL	F	102	-	-	19/37/137/137	-
12	LMT	1	103	-	-	4/21/61/61	0/2/2/2
14	HEC	C	402	3	-	5/10/54/54	-
9	BCL	1	101	-	-	15/37/137/137	-
11	U4Z	A	102	-	-	4/36/53/53	0/1/1/1
9	BCL	6	101	-	-	10/37/137/137	-
11	U4Z	D	103	-	-	4/36/53/53	0/1/1/1
9	BCL	H	101	-	-	16/37/137/137	-
16	PGV	L	1007	-	-	19/55/55/55	-
18	BPH	M	702	-	-	18/37/105/105	0/5/6/6
9	BCL	Q	102	-	-	12/37/137/137	-
22	LHG	h	101	-	-	11/14/14/53	-
13	BGL	L	1013	-	-	4/11/31/31	0/1/1/1
12	LMT	D	105	-	-	4/21/61/61	0/2/2/2
9	BCL	0	102	-	-	14/37/137/137	-
16	PGV	L	1006	-	-	22/55/55/55	-
19	MQE	L	1004	-	-	18/47/67/85	0/2/2/2
13	BGL	H	107	-	-	5/11/31/31	0/1/1/1
9	BCL	P	101	-	-	16/37/137/137	-
9	BCL	9	102	-	-	13/37/137/137	-
9	BCL	R	101	-	-	17/37/137/137	-
9	BCL	8	103	-	-	18/37/137/137	-
14	HEC	C	404	3	-	2/10/54/54	-
9	BCL	2	101	-	-	17/37/137/137	-
9	BCL	V	101	-	-	16/37/137/137	-
18	BPH	L	1005	-	-	18/37/105/105	0/5/6/6
16	PGV	C	407	-	-	17/45/45/55	-
9	BCL	B	103	-	-	22/37/137/137	-
16	PGV	P	103	-	-	17/47/47/55	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
16	PGV	M	706	-	-	21/55/55/55	-
14	HEC	C	403	3	-	0/10/54/54	-
9	BCL	0	101	-	-	11/37/137/137	-
10	U42	B	101	-	-	15/61/98/98	0/2/2/2
10	U42	I	101	-	-	19/61/98/98	0/2/2/2
9	BCL	G	102	-	-	22/37/137/137	-
13	BGL	L	1012	-	-	4/11/31/31	0/1/1/1
9	BCL	B	102	-	-	9/37/137/137	-
13	BGL	Y	101	-	-	6/11/31/31	0/1/1/1
9	BCL	J	101	-	-	15/37/137/137	-
20	PEF	L	1017	-	-	8/44/44/50	-
9	BCL	Q	103	-	-	19/37/137/137	-
11	U4Z	5	102	-	-	4/36/53/53	0/1/1/1
10	U42	4	104	-	-	14/61/98/98	0/2/2/2
13	BGL	L	1011	-	-	4/11/31/31	0/1/1/1
14	HEC	C	405	3	-	0/10/54/54	-
11	U4Z	C	401	-	-	15/36/53/53	0/1/1/1
9	BCL	E	102	-	-	22/37/137/137	-
13	BGL	H	103	-	-	0/11/31/31	0/1/1/1
11	U4Z	7	102	-	-	2/36/53/53	0/1/1/1
9	BCL	U	103	-	-	21/37/137/137	-
9	BCL	L	1002	-	-	12/37/137/137	-
9	BCL	I	103	-	-	24/37/137/137	-
9	BCL	5	101	-	-	15/37/137/137	-
9	BCL	3	101	-	-	17/37/137/137	-
9	BCL	L	1001	-	-	15/37/137/137	-
10	U42	U	104	-	-	24/61/98/98	0/2/2/2
9	BCL	D	101	-	-	15/37/137/137	-
9	BCL	F	101	-	-	19/37/137/137	-
10	U42	I	104	-	-	12/61/98/98	0/2/2/2

All (1055) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	O	101	U42	CAV-CAR	8.55	1.47	1.35
10	E	101	U42	CAV-CAR	8.03	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	E	101	U42	CBI-CBL	7.82	1.46	1.35
10	0	103	U42	CBO-CBL	-7.73	1.34	1.50
10	O	101	U42	CBF-CBH	-7.15	1.30	1.45
10	8	101	U42	CBK-CBH	-7.15	1.36	1.50
10	S	101	U42	CAV-CAR	7.10	1.45	1.35
10	B	101	U42	CBI-CBL	6.88	1.44	1.35
10	I	104	U42	CBI-CBL	6.63	1.44	1.35
10	O	101	U42	CBI-CBL	6.55	1.44	1.35
10	0	103	U42	CBK-CBH	-6.44	1.37	1.50
14	C	402	HEC	C2B-C3B	-6.39	1.34	1.40
10	0	103	U42	CAO-CAM	6.37	1.44	1.35
10	U	104	U42	CAV-CAR	6.36	1.44	1.35
10	0	103	U42	CAV-CAR	6.34	1.44	1.35
10	8	101	U42	CAV-CAR	6.34	1.44	1.35
14	C	404	HEC	C2B-C3B	-6.29	1.34	1.40
10	S	101	U42	CBI-CBL	6.28	1.44	1.35
10	O	101	U42	CAN-CAM	-6.24	1.38	1.50
14	C	402	HEC	C3C-C2C	-6.24	1.34	1.40
10	4	101	U42	CAV-CAR	6.16	1.44	1.35
10	I	101	U42	CBN-CBL	-6.12	1.32	1.45
10	E	101	U42	CBF-CBH	-6.11	1.32	1.45
14	C	403	HEC	C2B-C3B	-6.06	1.34	1.40
14	C	405	HEC	C2B-C3B	-6.06	1.34	1.40
14	C	403	HEC	C3C-C2C	-6.04	1.34	1.40
18	L	1003	BPH	C3B-C2B	5.97	1.50	1.39
14	C	405	HEC	C3C-C2C	-5.84	1.34	1.40
10	U	104	U42	CBI-CBL	5.82	1.43	1.35
9	P	101	BCL	C3B-C2B	5.77	1.49	1.39
9	A	101	BCL	C3B-C2B	5.76	1.49	1.39
10	O	101	U42	CBK-CBH	-5.74	1.39	1.50
14	C	404	HEC	C3C-C2C	-5.71	1.34	1.40
10	U	101	U42	CBI-CBL	5.64	1.43	1.35
10	I	101	U42	CBK-CBH	-5.61	1.39	1.50
10	I	101	U42	CBO-CBL	-5.53	1.39	1.50
10	0	103	U42	CBN-CBL	-5.51	1.34	1.45
10	4	101	U42	CBI-CBL	5.50	1.43	1.35
14	C	405	HEC	C3D-C2D	5.47	1.53	1.37
10	I	104	U42	CAV-CAR	5.41	1.43	1.35
10	I	101	U42	CBF-CBH	-5.39	1.34	1.45
10	U	101	U42	CBK-CBH	-5.37	1.39	1.50
14	C	403	HEC	C3D-C2D	5.36	1.53	1.37
10	8	101	U42	CBF-CBH	-5.36	1.34	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	C	404	HEC	C3D-C2D	5.36	1.53	1.37
10	Q	101	U42	CBK-CBH	-5.35	1.39	1.50
10	G	101	U42	CBF-CBH	-5.32	1.34	1.45
10	S	101	U42	CBK-CBH	-5.31	1.39	1.50
14	C	402	HEC	C3D-C2D	5.31	1.53	1.37
10	Q	101	U42	CBI-CBL	5.30	1.42	1.35
10	U	104	U42	CAO-CAM	5.29	1.42	1.35
18	L	1003	BPH	C3D-C2D	5.26	1.48	1.39
10	U	101	U42	CAV-CAR	5.26	1.42	1.35
9	0	101	BCL	C3B-C2B	5.25	1.48	1.39
9	M	701	BCL	O2D-CGD	5.23	1.46	1.33
10	8	101	U42	CBN-CBL	-5.21	1.34	1.45
10	B	101	U42	CAV-CAR	5.20	1.42	1.35
10	8	101	U42	CBI-CBL	5.19	1.42	1.35
9	U	102	BCL	C3B-C2B	5.16	1.48	1.39
9	L	1002	BCL	C3B-C2B	5.16	1.48	1.39
9	6	102	BCL	C3D-C4D	-5.15	1.32	1.44
10	I	101	U42	CBI-CBL	5.14	1.42	1.35
10	Q	101	U42	CAV-CAR	5.14	1.42	1.35
9	8	103	BCL	C3D-C4D	-5.12	1.32	1.44
9	Q	102	BCL	C3B-C2B	5.10	1.48	1.39
9	M	701	BCL	C3B-C2B	5.10	1.48	1.39
10	I	101	U42	CAV-CAR	5.09	1.42	1.35
9	L	1001	BCL	C3B-C2B	5.08	1.48	1.39
9	I	103	BCL	C3D-C4D	-5.08	1.32	1.44
9	0	102	BCL	O2D-CGD	5.07	1.45	1.33
9	Q	103	BCL	C3D-C4D	-5.05	1.32	1.44
9	V	101	BCL	O2D-CGD	5.02	1.45	1.33
9	6	101	BCL	C3B-C2B	5.02	1.48	1.39
9	2	101	BCL	O2D-CGD	5.02	1.45	1.33
9	W	101	BCL	C3B-C2B	5.01	1.48	1.39
9	D	102	BCL	C3B-C2B	5.01	1.48	1.39
10	E	101	U42	CBK-CBH	-5.00	1.40	1.50
9	L	1002	BCL	O2D-CGD	5.00	1.45	1.33
9	E	102	BCL	C3D-C4D	-5.00	1.32	1.44
9	K	101	BCL	C3B-C2B	5.00	1.48	1.39
9	O	102	BCL	C3B-C2B	5.00	1.48	1.39
9	6	101	BCL	O2D-CGD	4.99	1.45	1.33
9	W	101	BCL	O2D-CGD	4.99	1.45	1.33
9	U	103	BCL	C3D-C4D	-4.99	1.32	1.44
9	4	102	BCL	O2D-CGD	4.98	1.45	1.33
9	F	102	BCL	C3B-C2B	4.98	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	2	102	BCL	C3D-C4D	-4.96	1.33	1.44
9	G	102	BCL	C3D-C4D	-4.96	1.33	1.44
9	B	103	BCL	C3D-C4D	-4.95	1.33	1.44
9	I	102	BCL	C3B-C2B	4.95	1.48	1.39
9	4	102	BCL	C3B-C2B	4.95	1.48	1.39
9	W	102	BCL	C3D-C4D	-4.95	1.33	1.44
9	O	103	BCL	C3D-C4D	-4.95	1.33	1.44
10	4	104	U42	CAV-CAR	4.93	1.42	1.35
9	K	101	BCL	O2D-CGD	4.92	1.45	1.33
9	5	101	BCL	O2D-CGD	4.92	1.45	1.33
9	R	101	BCL	O2D-CGD	4.92	1.45	1.33
9	Q	102	BCL	O2D-CGD	4.91	1.45	1.33
9	B	102	BCL	C3B-C2B	4.91	1.48	1.39
10	U	104	U42	CBF-CBH	-4.91	1.35	1.45
9	4	103	BCL	C3D-C4D	-4.91	1.33	1.44
10	U	104	U42	CBK-CBH	-4.91	1.40	1.50
9	S	102	BCL	O2D-CGD	4.90	1.45	1.33
9	K	102	BCL	O2D-CGD	4.90	1.45	1.33
9	F	102	BCL	O2D-CGD	4.89	1.45	1.33
9	A	101	BCL	O2D-CGD	4.89	1.45	1.33
9	S	102	BCL	C3B-C2B	4.89	1.48	1.39
9	P	101	BCL	O2D-CGD	4.88	1.45	1.33
9	8	102	BCL	O2D-CGD	4.87	1.45	1.33
9	F	101	BCL	O2D-CGD	4.87	1.45	1.33
9	2	101	BCL	C3B-C2B	4.87	1.48	1.39
9	U	102	BCL	O2D-CGD	4.86	1.45	1.33
9	V	101	BCL	C3D-C4D	-4.86	1.33	1.44
9	T	101	BCL	O2D-CGD	4.86	1.45	1.33
9	D	102	BCL	O2D-CGD	4.86	1.45	1.33
9	0	102	BCL	C3D-C4D	-4.86	1.33	1.44
9	B	103	BCL	O2D-CGD	4.85	1.45	1.33
9	O	102	BCL	O2D-CGD	4.85	1.45	1.33
10	U	104	U42	CAC-CAE	-4.84	1.40	1.52
9	3	101	BCL	O2D-CGD	4.84	1.45	1.33
9	D	101	BCL	O2D-CGD	4.84	1.45	1.33
10	4	104	U42	CAN-CAM	-4.84	1.40	1.50
9	W	102	BCL	C3B-C2B	4.84	1.48	1.39
9	L	1001	BCL	C3D-C4D	-4.84	1.33	1.44
9	K	102	BCL	C3D-C4D	-4.84	1.33	1.44
9	N	101	BCL	O2D-CGD	4.84	1.45	1.33
10	0	103	U42	CBF-CBH	-4.84	1.35	1.45
9	9	102	BCL	O2D-CGD	4.82	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	U	103	BCL	C3B-C2B	4.82	1.48	1.39
9	8	102	BCL	C3B-C2B	4.82	1.48	1.39
9	4	103	BCL	O2D-CGD	4.82	1.45	1.33
9	K	102	BCL	C3B-C2B	4.82	1.48	1.39
9	N	101	BCL	C3B-C2B	4.82	1.48	1.39
9	7	101	BCL	O2D-CGD	4.82	1.45	1.33
9	I	103	BCL	C3B-C2B	4.81	1.48	1.39
9	D	101	BCL	C3B-C2B	4.81	1.48	1.39
9	S	103	BCL	C3D-C4D	-4.81	1.33	1.44
9	Q	103	BCL	C3B-C2B	4.80	1.48	1.39
9	B	102	BCL	O2D-CGD	4.79	1.44	1.33
9	J	101	BCL	O2D-CGD	4.79	1.44	1.33
9	F	101	BCL	C3B-C2B	4.79	1.48	1.39
9	E	102	BCL	O2D-CGD	4.79	1.44	1.33
9	8	103	BCL	C3B-C2B	4.78	1.48	1.39
9	R	101	BCL	C3D-C4D	-4.78	1.33	1.44
9	0	101	BCL	O2D-CGD	4.78	1.44	1.33
9	6	102	BCL	O2D-CGD	4.77	1.44	1.33
9	J	101	BCL	C3D-C4D	-4.76	1.33	1.44
9	I	103	BCL	O2D-CGD	4.75	1.44	1.33
9	L	1002	BCL	C3D-C4D	-4.75	1.33	1.44
9	H	101	BCL	O2D-CGD	4.74	1.44	1.33
9	M	701	BCL	C3D-C4D	-4.74	1.33	1.44
9	E	102	BCL	C3B-C2B	4.73	1.47	1.39
9	W	102	BCL	O2D-CGD	4.72	1.44	1.33
9	7	101	BCL	C3D-C4D	-4.72	1.33	1.44
9	3	101	BCL	C3D-C4D	-4.71	1.33	1.44
9	Q	103	BCL	O2D-CGD	4.71	1.44	1.33
9	9	102	BCL	C3D-C4D	-4.71	1.33	1.44
9	J	101	BCL	C3B-C2B	4.70	1.47	1.39
18	L	1003	BPH	O2D-CGD	4.70	1.44	1.33
10	G	101	U42	CAV-CAR	4.68	1.42	1.35
9	W	101	BCL	C3D-C4D	-4.68	1.33	1.44
9	2	101	BCL	C3D-C4D	-4.68	1.33	1.44
9	D	101	BCL	C3D-C4D	-4.68	1.33	1.44
9	7	101	BCL	C3B-C2B	4.68	1.47	1.39
9	2	102	BCL	C3B-C2B	4.67	1.47	1.39
9	2	102	BCL	O2D-CGD	4.67	1.44	1.33
9	H	101	BCL	C3D-C4D	-4.67	1.33	1.44
9	8	103	BCL	O2D-CGD	4.66	1.44	1.33
10	4	101	U42	CBN-CBL	-4.66	1.35	1.45
9	F	101	BCL	C3D-C4D	-4.66	1.33	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	K	101	BCL	C3D-C4D	-4.66	1.33	1.44
9	F	102	BCL	C3D-C4D	-4.66	1.33	1.44
9	5	101	BCL	C3D-C4D	-4.65	1.33	1.44
9	0	101	BCL	C3D-C4D	-4.65	1.33	1.44
10	Q	101	U42	CBF-CBH	-4.65	1.35	1.45
10	Q	101	U42	CAN-CAM	-4.65	1.41	1.50
9	T	101	BCL	C3D-C4D	-4.65	1.33	1.44
9	D	102	BCL	C3D-C4D	-4.65	1.33	1.44
9	O	103	BCL	C3B-C2B	4.64	1.47	1.39
9	I	102	BCL	C3D-C4D	-4.63	1.33	1.44
9	U	103	BCL	O2D-CGD	4.63	1.44	1.33
9	N	101	BCL	C3D-C4D	-4.63	1.33	1.44
9	6	101	BCL	C3D-C4D	-4.62	1.33	1.44
9	S	103	BCL	O2D-CGD	4.62	1.44	1.33
9	G	102	BCL	C3B-C2B	4.62	1.47	1.39
9	8	102	BCL	C3D-C4D	-4.62	1.33	1.44
9	H	101	BCL	C3B-C2B	4.62	1.47	1.39
9	G	102	BCL	O2D-CGD	4.62	1.44	1.33
9	1	101	BCL	O2D-CGD	4.61	1.44	1.33
9	L	1002	BCL	O2A-CGA	4.60	1.46	1.33
9	4	102	BCL	C3D-C4D	-4.59	1.33	1.44
9	U	102	BCL	C3D-C4D	-4.59	1.33	1.44
9	S	102	BCL	C3D-C4D	-4.59	1.33	1.44
9	Q	102	BCL	C3D-C4D	-4.59	1.33	1.44
9	B	102	BCL	C3D-C4D	-4.59	1.33	1.44
9	T	101	BCL	C3B-C2B	4.58	1.47	1.39
9	I	102	BCL	O2D-CGD	4.57	1.44	1.33
9	O	103	BCL	O2D-CGD	4.57	1.44	1.33
9	6	102	BCL	C3B-C2B	4.57	1.47	1.39
9	R	101	BCL	C3B-C2B	4.57	1.47	1.39
9	9	102	BCL	C3B-C2B	4.55	1.47	1.39
10	U	104	U42	CBO-CBL	-4.55	1.41	1.50
9	V	101	BCL	C3B-C2B	4.54	1.47	1.39
9	1	101	BCL	C3B-C2B	4.54	1.47	1.39
9	O	102	BCL	C3D-C4D	-4.54	1.33	1.44
10	4	101	U42	CBK-CBH	-4.53	1.41	1.50
9	3	101	BCL	C3B-C2B	4.52	1.47	1.39
9	B	103	BCL	C3B-C2B	4.51	1.47	1.39
9	1	101	BCL	C3D-C4D	-4.51	1.34	1.44
10	B	101	U42	CBK-CBH	-4.50	1.41	1.50
9	P	101	BCL	C1D-ND	-4.47	1.32	1.37
9	5	101	BCL	C3B-C2B	4.46	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	8	101	U42	CAO-CAM	4.44	1.41	1.35
9	Q	103	BCL	O2A-CGA	4.42	1.46	1.33
10	S	101	U42	CBO-CBL	-4.42	1.41	1.50
10	Q	101	U42	CAU-CAR	-4.41	1.41	1.50
9	0	102	BCL	C3B-C2B	4.39	1.47	1.39
10	O	101	U42	CBN-CBL	-4.38	1.36	1.45
10	G	101	U42	CBO-CBL	-4.38	1.41	1.50
9	4	103	BCL	C3B-C2B	4.38	1.47	1.39
11	V	102	U4Z	CBI-CBL	4.38	1.41	1.35
11	N	102	U4Z	CBI-CBL	4.37	1.41	1.35
9	4	103	BCL	O2A-CGA	4.37	1.46	1.33
18	L	1003	BPH	OBD-CAD	4.37	1.28	1.22
9	O	103	BCL	O2A-CGA	4.37	1.46	1.33
9	L	1001	BCL	O2A-CGA	4.35	1.46	1.33
9	K	101	BCL	O2A-CGA	4.34	1.46	1.33
9	S	103	BCL	C3B-C2B	4.34	1.47	1.39
10	I	101	U42	CAO-CAM	4.33	1.41	1.35
9	G	102	BCL	O2A-CGA	4.33	1.46	1.33
10	0	103	U42	CAP-CAQ	4.32	1.45	1.34
9	A	101	BCL	CHD-C1D	4.31	1.46	1.38
10	G	101	U42	CAN-CAM	-4.31	1.42	1.50
10	I	101	U42	CAN-CAM	-4.29	1.42	1.50
9	M	701	BCL	O2A-CGA	4.29	1.45	1.33
11	J	102	U4Z	CBJ-CBH	4.28	1.41	1.35
10	B	101	U42	CAN-CAM	-4.28	1.42	1.50
9	2	102	BCL	O2A-CGA	4.27	1.45	1.33
11	N	102	U4Z	CBJ-CBH	4.27	1.41	1.35
11	S	104	U4Z	CBJ-CBH	4.27	1.41	1.35
20	L	1017	PEF	O3-C30	4.25	1.45	1.33
9	U	102	BCL	O2A-CGA	4.24	1.45	1.33
10	S	101	U42	CAN-CAM	-4.24	1.42	1.50
9	K	102	BCL	O2A-CGA	4.23	1.45	1.33
9	2	101	BCL	O2A-CGA	4.23	1.45	1.33
10	B	101	U42	CAO-CAM	4.22	1.41	1.35
9	L	1001	BCL	O2D-CGD	4.21	1.43	1.33
11	F	103	U4Z	CBI-CBL	4.21	1.41	1.35
9	V	101	BCL	O2A-CGA	4.21	1.45	1.33
9	W	102	BCL	O2A-CGA	4.21	1.45	1.33
11	N	102	U4Z	CAV-CAR	4.21	1.41	1.35
10	4	101	U42	CBF-CBH	-4.20	1.36	1.45
11	J	102	U4Z	CBI-CBL	4.19	1.41	1.35
11	C	401	U4Z	CBI-CBL	4.19	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	V	102	U4Z	CAV-CAR	4.19	1.41	1.35
9	D	102	BCL	O2A-CGA	4.19	1.45	1.33
10	4	101	U42	CBO-CBL	-4.19	1.42	1.50
11	S	104	U4Z	CAV-CAR	4.19	1.41	1.35
22	h	101	LHG	O7-C7	-4.18	1.20	1.42
11	A	102	U4Z	CAV-CAR	4.18	1.41	1.35
11	F	103	U4Z	CAV-CAR	4.18	1.41	1.35
10	U	101	U42	CAN-CAM	-4.17	1.42	1.50
9	S	103	BCL	O2A-CGA	4.17	1.45	1.33
9	E	102	BCL	O2A-CGA	4.16	1.45	1.33
11	V	102	U4Z	CBJ-CBH	4.16	1.41	1.35
11	9	101	U4Z	CAV-CAR	4.16	1.41	1.35
9	0	101	BCL	C1D-ND	-4.16	1.32	1.37
11	D	103	U4Z	CAV-CAR	4.16	1.41	1.35
9	8	102	BCL	O2A-CGA	4.15	1.45	1.33
10	I	104	U42	CBO-CBL	-4.15	1.42	1.50
11	J	102	U4Z	CAV-CAR	4.15	1.41	1.35
10	0	103	U42	CBI-CBL	4.15	1.41	1.35
11	H	102	U4Z	CBJ-CBH	4.15	1.41	1.35
9	1	101	BCL	O2A-CGA	4.13	1.45	1.33
11	H	102	U4Z	CBI-CBL	4.13	1.41	1.35
9	6	102	BCL	O2A-CGA	4.13	1.45	1.33
9	N	101	BCL	O2A-CGA	4.13	1.45	1.33
9	P	101	BCL	CHD-C1D	4.13	1.46	1.38
9	F	102	BCL	C1D-ND	-4.13	1.32	1.37
9	F	102	BCL	O2A-CGA	4.12	1.45	1.33
9	0	101	BCL	O2A-CGA	4.12	1.45	1.33
9	B	103	BCL	O2A-CGA	4.12	1.45	1.33
9	B	102	BCL	O2A-CGA	4.11	1.45	1.33
9	U	103	BCL	O2A-CGA	4.11	1.45	1.33
20	L	1017	PEF	O2-C10	4.11	1.45	1.34
11	D	103	U4Z	CBI-CBL	4.11	1.41	1.35
11	D	103	U4Z	CBJ-CBH	4.10	1.41	1.35
9	Q	102	BCL	O2A-CGA	4.10	1.45	1.33
11	S	104	U4Z	CBI-CBL	4.10	1.41	1.35
18	L	1003	BPH	O2A-CGA	4.09	1.45	1.33
9	A	101	BCL	O2A-CGA	4.09	1.45	1.33
9	4	102	BCL	C1D-ND	-4.09	1.32	1.37
9	6	101	BCL	O2A-CGA	4.09	1.45	1.33
9	H	101	BCL	O2A-CGA	4.09	1.45	1.33
9	4	102	BCL	O2A-CGA	4.09	1.45	1.33
9	I	103	BCL	O2A-CGA	4.08	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	D	101	BCL	O2A-CGA	4.08	1.45	1.33
11	9	101	U4Z	CBJ-CBH	4.08	1.41	1.35
11	H	102	U4Z	CAV-CAR	4.08	1.41	1.35
9	2	101	BCL	C1D-ND	-4.08	1.32	1.37
10	I	104	U42	CAO-CAM	4.07	1.41	1.35
9	P	101	BCL	O2A-CGA	4.07	1.45	1.33
11	A	102	U4Z	CBI-CBL	4.07	1.41	1.35
9	A	101	BCL	C1D-ND	-4.07	1.32	1.37
9	F	101	BCL	O2A-CGA	4.06	1.45	1.33
9	R	101	BCL	O2A-CGA	4.06	1.45	1.33
9	I	102	BCL	O2A-CGA	4.06	1.45	1.33
9	O	102	BCL	O2A-CGA	4.05	1.45	1.33
11	5	102	U4Z	CAO-CAM	4.04	1.41	1.35
10	S	101	U42	CBF-CBH	-4.04	1.37	1.45
11	T	102	U4Z	CAV-CAR	4.03	1.41	1.35
9	8	102	BCL	C1D-ND	-4.03	1.32	1.37
11	F	103	U4Z	CBJ-CBH	4.03	1.41	1.35
10	G	101	U42	CAO-CAM	4.03	1.41	1.35
10	I	101	U42	CAU-CAR	-4.02	1.42	1.50
11	T	102	U4Z	CBJ-CBH	4.02	1.41	1.35
11	P	102	U4Z	CBI-CBL	4.02	1.41	1.35
9	9	102	BCL	O2A-CGA	4.02	1.45	1.33
11	A	102	U4Z	CBJ-CBH	4.01	1.41	1.35
9	5	101	BCL	O2A-CGA	4.01	1.45	1.33
10	4	104	U42	CBF-CBH	-4.01	1.37	1.45
9	7	101	BCL	O2A-CGA	4.01	1.45	1.33
11	V	102	U4Z	CAO-CAM	4.00	1.41	1.35
11	3	102	U4Z	CBI-CBL	4.00	1.41	1.35
11	5	102	U4Z	CBJ-CBH	4.00	1.41	1.35
9	0	102	BCL	O2A-CGA	4.00	1.45	1.33
9	T	101	BCL	O2A-CGA	3.99	1.45	1.33
11	7	102	U4Z	CBJ-CBH	3.99	1.41	1.35
11	T	102	U4Z	CBI-CBL	3.99	1.41	1.35
10	B	101	U42	CBO-CBL	-3.99	1.42	1.50
11	5	102	U4Z	CAV-CAR	3.99	1.41	1.35
11	9	101	U4Z	CBI-CBL	3.99	1.41	1.35
9	D	102	BCL	C1D-ND	-3.98	1.32	1.37
10	B	101	U42	CBF-CBH	-3.98	1.37	1.45
10	G	101	U42	CBN-CBL	-3.98	1.37	1.45
10	G	101	U42	CAC-CAE	-3.95	1.42	1.52
11	7	102	U4Z	CBI-CBL	3.95	1.41	1.35
9	J	101	BCL	O2A-CGA	3.95	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	S	101	U42	CAL-CAM	-3.95	1.37	1.45
11	3	102	U4Z	CBJ-CBH	3.94	1.41	1.35
11	D	103	U4Z	CAO-CAM	3.92	1.41	1.35
11	S	104	U4Z	CAO-CAM	3.92	1.41	1.35
10	Q	101	U42	CAL-CAM	-3.92	1.37	1.45
9	3	101	BCL	O2A-CGA	3.92	1.44	1.33
10	U	101	U42	CBF-CBH	-3.92	1.37	1.45
9	O	102	BCL	C1D-ND	-3.91	1.33	1.37
11	F	103	U4Z	CAO-CAM	3.91	1.41	1.35
11	1	102	U4Z	CBI-CBL	3.91	1.41	1.35
11	7	102	U4Z	CAV-CAR	3.91	1.41	1.35
10	4	104	U42	CBK-CBH	-3.90	1.42	1.50
9	S	102	BCL	O2A-CGA	3.90	1.44	1.33
10	Q	101	U42	CBA-CAW	-3.90	1.30	1.34
11	P	102	U4Z	CAV-CAR	3.90	1.41	1.35
11	5	102	U4Z	CBI-CBL	3.90	1.40	1.35
11	3	102	U4Z	CAV-CAR	3.89	1.40	1.35
9	I	102	BCL	C1D-ND	-3.89	1.33	1.37
11	3	102	U4Z	CAO-CAM	3.88	1.40	1.35
9	K	101	BCL	C1D-ND	-3.87	1.33	1.37
11	A	102	U4Z	CAO-CAM	3.87	1.40	1.35
11	N	102	U4Z	CAO-CAM	3.86	1.40	1.35
9	U	102	BCL	C1D-ND	-3.86	1.33	1.37
18	L	1003	BPH	CHA-CBD	-3.85	1.47	1.52
11	7	102	U4Z	CAO-CAM	3.84	1.40	1.35
10	0	103	U42	CAN-CAM	-3.84	1.42	1.50
11	9	101	U4Z	CAO-CAM	3.83	1.40	1.35
11	P	102	U4Z	CBJ-CBH	3.82	1.40	1.35
10	B	101	U42	CAU-CAR	-3.82	1.43	1.50
9	8	103	BCL	O2A-CGA	3.82	1.44	1.33
9	W	101	BCL	O2A-CGA	3.80	1.44	1.33
10	U	101	U42	CBO-CBL	-3.80	1.43	1.50
10	4	101	U42	C7-C8	-3.79	1.45	1.53
9	B	102	BCL	C1D-ND	-3.78	1.33	1.37
11	1	102	U4Z	CBJ-CBH	3.78	1.40	1.35
9	Q	102	BCL	C1D-ND	-3.78	1.33	1.37
10	0	103	U42	CAX-CAY	3.78	1.58	1.53
9	W	101	BCL	C1D-ND	-3.77	1.33	1.37
9	6	101	BCL	C1D-ND	-3.77	1.33	1.37
11	P	102	U4Z	CAO-CAM	3.77	1.40	1.35
10	O	101	U42	CBO-CBL	-3.77	1.43	1.50
11	J	102	U4Z	CAO-CAM	3.75	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	S	102	BCL	C1D-ND	-3.75	1.33	1.37
11	H	102	U4Z	CAO-CAM	3.75	1.40	1.35
11	1	102	U4Z	CAV-CAR	3.74	1.40	1.35
11	1	102	U4Z	CAO-CAM	3.72	1.40	1.35
10	0	103	U42	CAC-CAE	-3.71	1.43	1.52
11	C	401	U4Z	CBO-CBL	-3.70	1.43	1.50
11	T	102	U4Z	CAO-CAM	3.66	1.40	1.35
10	Q	101	U42	CAC-CAE	-3.65	1.43	1.52
10	O	101	U42	CAL-CAM	-3.64	1.38	1.45
10	8	101	U42	CBO-CBL	-3.63	1.43	1.50
10	I	104	U42	CAN-CAM	-3.62	1.43	1.50
11	C	401	U4Z	CBJ-CBH	3.61	1.40	1.35
9	P	101	BCL	C3D-C2D	3.59	1.48	1.39
10	Q	101	U42	CBO-CBL	-3.58	1.43	1.50
10	4	101	U42	CAO-CAM	3.55	1.40	1.35
10	S	101	U42	CAO-CAM	3.53	1.40	1.35
10	Q	101	U42	CBN-CBL	-3.51	1.38	1.45
9	A	101	BCL	C3D-C2D	3.49	1.48	1.39
10	S	101	U42	CAU-CAR	-3.49	1.43	1.50
10	I	104	U42	CBK-CBH	-3.48	1.43	1.50
10	G	101	U42	CBI-CBL	3.47	1.40	1.35
10	4	104	U42	CAU-CAR	-3.45	1.43	1.50
9	R	101	BCL	C1D-ND	-3.45	1.33	1.37
9	P	101	BCL	OBD-CAD	3.44	1.28	1.22
9	A	101	BCL	OBD-CAD	3.44	1.28	1.22
9	M	701	BCL	C1D-ND	-3.44	1.33	1.37
10	E	101	U42	CAC-CAE	-3.43	1.44	1.52
10	0	103	U42	CBG-CBB	3.42	1.44	1.36
10	I	104	U42	CBJ-CBH	3.42	1.40	1.35
10	I	101	U42	CAC-CAE	-3.40	1.44	1.52
10	G	101	U42	CBK-CBH	-3.39	1.43	1.50
9	L	1001	BCL	CHD-C1D	3.39	1.45	1.38
10	O	101	U42	CAC-CAE	-3.38	1.44	1.52
10	4	104	U42	CAO-CAM	3.37	1.40	1.35
10	B	101	U42	CBA-CAW	-3.35	1.30	1.34
10	S	101	U42	CBA-CAW	-3.35	1.30	1.34
10	I	104	U42	CBF-CBH	-3.35	1.38	1.45
10	4	104	U42	CBO-CBL	-3.34	1.44	1.50
9	D	101	BCL	C1D-ND	-3.34	1.33	1.37
11	V	102	U4Z	CAH-CAD	3.34	1.40	1.34
10	U	101	U42	CAU-CAR	-3.33	1.44	1.50
10	E	101	U42	CBA-CAW	-3.32	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	F	102	BCL	OBD-CAD	3.32	1.28	1.22
9	0	102	BCL	OBD-CAD	3.30	1.28	1.22
9	5	101	BCL	C1D-ND	-3.29	1.33	1.37
10	B	101	U42	CAL-CAM	-3.29	1.38	1.45
9	4	102	BCL	OBD-CAD	3.29	1.28	1.22
10	4	104	U42	CBN-CBL	-3.28	1.38	1.45
11	C	401	U4Z	CAO-CAM	3.28	1.40	1.35
9	H	101	BCL	C1D-ND	-3.28	1.33	1.37
10	E	101	U42	CAN-CAM	-3.27	1.44	1.50
9	2	102	BCL	CHD-C1D	3.27	1.44	1.38
9	V	101	BCL	CHD-C1D	3.26	1.44	1.38
9	3	101	BCL	CHD-C1D	3.26	1.44	1.38
9	N	101	BCL	C1D-ND	-3.26	1.33	1.37
10	U	101	U42	CBN-CBL	-3.25	1.39	1.45
11	F	103	U4Z	CAH-CAD	3.24	1.40	1.34
9	G	102	BCL	CHD-C1D	3.24	1.44	1.38
9	7	101	BCL	CHD-C1D	3.23	1.44	1.38
10	U	104	U42	CAP-CAQ	3.23	1.42	1.34
10	I	101	U42	C20-C19	-3.23	1.40	1.52
9	K	101	BCL	OBD-CAD	3.23	1.28	1.22
10	S	101	U42	CAC-CAE	-3.23	1.44	1.52
11	N	102	U4Z	CAH-CAD	3.23	1.40	1.34
9	8	103	BCL	CHD-C1D	3.23	1.44	1.38
9	J	101	BCL	C1D-ND	-3.22	1.33	1.37
9	V	101	BCL	C1D-ND	-3.22	1.33	1.37
9	L	1002	BCL	CHD-C1D	3.21	1.44	1.38
9	5	101	BCL	CHD-C1D	3.21	1.44	1.38
9	B	102	BCL	C3D-C2D	3.20	1.47	1.39
9	1	101	BCL	C1D-ND	-3.20	1.33	1.37
11	3	102	U4Z	CAH-CAD	3.20	1.40	1.34
10	E	101	U42	C27-C26	-3.19	1.33	1.51
10	U	101	U42	CAC-CAE	-3.19	1.44	1.52
9	5	101	BCL	OBD-CAD	3.19	1.28	1.22
9	D	102	BCL	C3D-C2D	3.18	1.47	1.39
9	Q	102	BCL	OBD-CAD	3.18	1.28	1.22
9	7	101	BCL	C1D-ND	-3.18	1.33	1.37
9	S	102	BCL	OBD-CAD	3.17	1.27	1.22
10	I	104	U42	CAU-CAR	-3.17	1.44	1.50
9	O	103	BCL	C1D-ND	-3.17	1.33	1.37
10	0	103	U42	CBA-CAW	-3.17	1.30	1.34
10	U	104	U42	CBA-CAW	-3.15	1.30	1.34
9	I	102	BCL	OBD-CAD	3.15	1.27	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	L	1011	BGL	O5-C1	3.15	1.50	1.42
9	1	101	BCL	OBD-CAD	3.14	1.27	1.22
10	I	104	U42	C20-C19	-3.14	1.40	1.52
10	O	101	U42	CAQ-CAR	-3.14	1.39	1.45
10	U	104	U42	CBN-CBL	-3.14	1.39	1.45
9	6	101	BCL	OBD-CAD	3.13	1.27	1.22
11	S	104	U4Z	CAH-CAD	3.13	1.39	1.34
9	3	101	BCL	C1D-ND	-3.13	1.33	1.37
9	H	101	BCL	OBD-CAD	3.13	1.27	1.22
11	J	102	U4Z	CAH-CAD	3.12	1.39	1.34
9	M	701	BCL	OBD-CAD	3.11	1.27	1.22
9	M	701	BCL	CHD-C1D	3.11	1.44	1.38
9	K	102	BCL	C1D-ND	-3.11	1.34	1.37
9	F	101	BCL	CHD-C1D	3.11	1.44	1.38
9	D	101	BCL	OBD-CAD	3.11	1.27	1.22
9	9	102	BCL	C1D-ND	-3.10	1.34	1.37
9	4	103	BCL	C1D-ND	-3.10	1.34	1.37
9	F	101	BCL	OBD-CAD	3.10	1.27	1.22
9	L	1001	BCL	OBD-CAD	3.10	1.27	1.22
9	J	101	BCL	CHD-C1D	3.10	1.44	1.38
11	5	102	U4Z	CAH-CAD	3.10	1.39	1.34
10	E	101	U42	CAO-CAM	3.10	1.39	1.35
10	U	101	U42	CBM-CBJ	-3.09	1.33	1.43
9	8	102	BCL	C3D-C2D	3.09	1.47	1.39
9	2	101	BCL	C3D-C2D	3.09	1.47	1.39
9	0	101	BCL	OBD-CAD	3.09	1.27	1.22
9	R	101	BCL	OBD-CAD	3.09	1.27	1.22
9	L	1001	BCL	C1D-ND	-3.08	1.34	1.37
9	T	101	BCL	CHD-C1D	3.08	1.44	1.38
9	N	101	BCL	OBD-CAD	3.08	1.27	1.22
9	8	103	BCL	C1D-ND	-3.07	1.34	1.37
10	S	101	U42	CBN-CBL	-3.07	1.39	1.45
9	E	102	BCL	CHD-C1D	3.06	1.44	1.38
9	1	101	BCL	CHD-C1D	3.06	1.44	1.38
9	2	102	BCL	C1D-ND	-3.06	1.34	1.37
11	P	102	U4Z	CAH-CAD	3.05	1.39	1.34
11	H	102	U4Z	CAH-CAD	3.05	1.39	1.34
13	3	103	BGL	O5-C1	3.05	1.50	1.42
9	L	1002	BCL	OBD-CAD	3.04	1.27	1.22
10	E	101	U42	CBN-CBL	-3.04	1.39	1.45
11	D	103	U4Z	CAH-CAD	3.04	1.39	1.34
9	R	101	BCL	CHD-C1D	3.03	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	W	101	BCL	CHD-C1D	3.03	1.44	1.38
11	1	102	U4Z	CAL-CAM	-3.03	1.39	1.45
9	6	101	BCL	C3D-C2D	3.03	1.47	1.39
9	T	101	BCL	C1D-ND	-3.03	1.34	1.37
9	N	101	BCL	CHD-C1D	3.02	1.44	1.38
9	9	102	BCL	CHD-C1D	3.02	1.44	1.38
9	O	102	BCL	OBD-CAD	3.02	1.27	1.22
9	U	102	BCL	OBD-CAD	3.02	1.27	1.22
13	L	1012	BGL	O5-C1	3.02	1.50	1.42
10	O	101	U42	CBA-CAW	-3.02	1.31	1.34
9	B	102	BCL	OBD-CAD	3.01	1.27	1.22
9	Q	103	BCL	C1D-ND	-3.01	1.34	1.37
9	S	103	BCL	C1D-ND	-3.01	1.34	1.37
9	U	102	BCL	C3D-C2D	3.00	1.47	1.39
9	Q	102	BCL	C3D-C2D	3.00	1.47	1.39
9	L	1001	BCL	C3D-C2D	3.00	1.47	1.39
9	I	103	BCL	C1D-ND	-3.00	1.34	1.37
9	W	102	BCL	C1D-ND	-3.00	1.34	1.37
9	F	102	BCL	C3D-C2D	3.00	1.47	1.39
9	K	101	BCL	CHD-C1D	3.00	1.44	1.38
9	S	102	BCL	C3D-C2D	3.00	1.47	1.39
9	F	101	BCL	C1D-ND	-3.00	1.34	1.37
9	S	103	BCL	CHD-C1D	3.00	1.44	1.38
10	G	101	U42	CBA-CAW	-3.00	1.31	1.34
9	K	101	BCL	C3D-C2D	3.00	1.47	1.39
9	B	103	BCL	CHD-C1D	2.99	1.44	1.38
9	9	102	BCL	OBD-CAD	2.99	1.27	1.22
11	3	102	U4Z	CAL-CAM	-2.99	1.39	1.45
9	O	102	BCL	C3D-C2D	2.98	1.47	1.39
9	W	101	BCL	C3D-C2D	2.98	1.47	1.39
9	0	102	BCL	C1D-ND	-2.98	1.34	1.37
9	K	102	BCL	OBD-CAD	2.98	1.27	1.22
9	8	103	BCL	OBD-CAD	2.98	1.27	1.22
9	W	101	BCL	OBD-CAD	2.98	1.27	1.22
10	O	101	U42	CAU-CAR	-2.98	1.44	1.50
11	S	104	U4Z	CAL-CAM	-2.97	1.39	1.45
11	T	102	U4Z	CAH-CAD	2.97	1.39	1.34
10	U	104	U42	CBG-CBB	2.97	1.43	1.36
11	T	102	U4Z	CAL-CAM	-2.97	1.39	1.45
13	C	409	BGL	O5-C1	2.97	1.50	1.42
11	7	102	U4Z	CAL-CAM	-2.97	1.39	1.45
9	I	102	BCL	C3D-C2D	2.97	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	0	101	BCL	C3D-C2D	2.97	1.47	1.39
9	2	101	BCL	OBD-CAD	2.96	1.27	1.22
9	7	101	BCL	OBD-CAD	2.96	1.27	1.22
9	H	101	BCL	CHD-C1D	2.95	1.44	1.38
9	J	101	BCL	OBD-CAD	2.95	1.27	1.22
9	4	102	BCL	C3D-C2D	2.94	1.47	1.39
11	N	102	U4Z	CAL-CAM	-2.94	1.39	1.45
10	I	101	U42	C27-C26	-2.94	1.35	1.51
11	9	101	U4Z	CAL-CAM	-2.94	1.39	1.45
9	F	101	BCL	C3D-C2D	2.94	1.47	1.39
9	6	102	BCL	C1D-ND	-2.93	1.34	1.37
9	U	103	BCL	CHD-C1D	2.92	1.44	1.38
9	0	102	BCL	CHD-C1D	2.92	1.44	1.38
13	H	107	BGL	O5-C1	2.92	1.50	1.42
11	1	102	U4Z	CAH-CAD	2.92	1.39	1.34
9	7	101	BCL	C3D-C2D	2.92	1.47	1.39
9	S	103	BCL	OBD-CAD	2.92	1.27	1.22
9	H	101	BCL	C3D-C2D	2.92	1.47	1.39
11	J	102	U4Z	CAL-CAM	-2.92	1.39	1.45
9	V	101	BCL	C3D-C2D	2.91	1.47	1.39
13	N	103	BGL	O5-C1	2.91	1.50	1.42
11	H	102	U4Z	CAL-CAM	-2.91	1.39	1.45
9	L	1002	BCL	C1D-ND	-2.91	1.34	1.37
11	5	102	U4Z	CAL-CAM	-2.91	1.39	1.45
9	8	102	BCL	OBD-CAD	2.91	1.27	1.22
11	P	102	U4Z	CAL-CAM	-2.91	1.39	1.45
11	D	103	U4Z	CAL-CAM	-2.91	1.39	1.45
13	Y	101	BGL	O5-C1	2.91	1.50	1.42
10	8	101	U42	CAP-CAQ	2.91	1.42	1.34
9	4	103	BCL	CHD-C1D	2.91	1.44	1.38
9	N	101	BCL	C3D-C2D	2.90	1.47	1.39
9	F	102	BCL	CHD-C1D	2.90	1.44	1.38
10	U	101	U42	C20-C19	-2.90	1.41	1.52
13	H	103	BGL	O5-C1	2.90	1.50	1.42
9	A	101	BCL	CHD-C4C	2.90	1.47	1.39
9	K	102	BCL	CHD-C1D	2.89	1.44	1.38
11	F	103	U4Z	CAL-CAM	-2.89	1.39	1.45
13	D	104	BGL	O5-C1	2.89	1.50	1.42
10	8	101	U42	C20-C19	-2.88	1.41	1.52
9	E	102	BCL	C1D-ND	-2.88	1.34	1.37
10	I	101	U42	C19-C18	-2.88	1.42	1.50
9	T	101	BCL	OBD-CAD	2.87	1.27	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	0	103	U42	CAL-CAJ	2.87	1.41	1.33
9	3	101	BCL	OBD-CAD	2.87	1.27	1.22
10	4	101	U42	CBA-CAW	-2.87	1.31	1.34
9	I	103	BCL	CHD-C1D	2.87	1.43	1.38
9	P	101	BCL	CHD-C4C	2.86	1.47	1.39
13	C	410	BGL	O5-C1	2.86	1.50	1.42
13	F	104	BGL	O5-C1	2.86	1.50	1.42
9	9	102	BCL	C3D-C2D	2.86	1.46	1.39
9	U	103	BCL	C1D-ND	-2.86	1.34	1.37
9	G	102	BCL	C1D-ND	-2.86	1.34	1.37
9	D	101	BCL	CHD-C1D	2.85	1.43	1.38
9	D	102	BCL	OBD-CAD	2.85	1.27	1.22
9	D	101	BCL	C3D-C2D	2.85	1.46	1.39
9	Q	103	BCL	CHD-C1D	2.84	1.43	1.38
9	W	102	BCL	CHD-C1D	2.84	1.43	1.38
11	A	102	U4Z	CAH-CAD	2.84	1.39	1.34
9	J	101	BCL	C3D-C2D	2.84	1.46	1.39
11	9	101	U4Z	CAH-CAD	2.84	1.39	1.34
9	O	103	BCL	MG-NA	-2.83	1.99	2.06
9	1	101	BCL	C3D-C2D	2.83	1.46	1.39
11	A	102	U4Z	CAL-CAM	-2.83	1.39	1.45
13	L	1015	BGL	O5-C1	2.83	1.50	1.42
9	2	102	BCL	C3D-C2D	2.82	1.46	1.39
9	5	101	BCL	C3D-C2D	2.82	1.46	1.39
9	U	102	BCL	CHD-C1D	2.82	1.43	1.38
13	L	1013	BGL	O5-C1	2.82	1.49	1.42
9	M	701	BCL	C3D-C2D	2.82	1.46	1.39
9	8	102	BCL	CHD-C1D	2.81	1.43	1.38
10	U	101	U42	CBA-CAW	-2.81	1.31	1.34
9	R	101	BCL	C3D-C2D	2.81	1.46	1.39
9	6	102	BCL	CHD-C1D	2.80	1.43	1.38
10	G	101	U42	CAU-CAR	-2.80	1.45	1.50
9	S	102	BCL	CHD-C1D	2.79	1.43	1.38
10	8	101	U42	CAN-CAM	-2.79	1.45	1.50
9	T	101	BCL	C3D-C2D	2.79	1.46	1.39
10	E	101	U42	C20-C19	-2.79	1.41	1.52
10	4	101	U42	CAQ-CAR	-2.78	1.40	1.45
9	2	101	BCL	MG-NA	-2.78	1.99	2.06
9	I	102	BCL	CHD-C1D	2.78	1.43	1.38
9	4	102	BCL	CHD-C1D	2.78	1.43	1.38
9	Q	102	BCL	CHD-C1D	2.78	1.43	1.38
10	B	101	U42	CAC-CAE	-2.78	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	G	101	U42	CAL-CAM	-2.78	1.40	1.45
10	4	104	U42	CAL-CAM	-2.77	1.40	1.45
11	V	102	U4Z	CAL-CAM	-2.77	1.40	1.45
9	3	101	BCL	C3D-C2D	2.76	1.46	1.39
9	4	103	BCL	OBD-CAD	2.76	1.27	1.22
9	B	102	BCL	CHD-C1D	2.76	1.43	1.38
9	L	1002	BCL	C3D-C2D	2.76	1.46	1.39
9	U	103	BCL	C3D-C2D	2.75	1.46	1.39
9	E	102	BCL	OBD-CAD	2.75	1.27	1.22
9	V	101	BCL	OBD-CAD	2.74	1.27	1.22
9	W	101	BCL	C3C-C4C	-2.74	1.48	1.51
9	L	1001	BCL	MG-NA	-2.74	1.99	2.06
9	4	103	BCL	MG-NA	-2.73	1.99	2.06
9	6	101	BCL	CHD-C1D	2.73	1.43	1.38
10	4	101	U42	C20-C19	-2.73	1.42	1.52
9	D	102	BCL	CHD-C1D	2.73	1.43	1.38
9	8	103	BCL	C3D-C2D	2.72	1.46	1.39
9	W	101	BCL	MG-NC	-2.72	1.99	2.06
10	U	104	U42	CAN-CAM	-2.72	1.45	1.50
9	2	101	BCL	CHD-C1D	2.71	1.43	1.38
9	K	102	BCL	C3D-C2D	2.71	1.46	1.39
9	B	103	BCL	C3D-C2D	2.71	1.46	1.39
10	S	101	U42	C19-C18	-2.71	1.42	1.50
11	7	102	U4Z	CAH-CAD	2.70	1.39	1.34
9	L	1001	BCL	CHD-C4C	2.70	1.46	1.39
9	G	102	BCL	C3D-C2D	2.69	1.46	1.39
10	4	101	U42	CAC-CAE	-2.69	1.45	1.52
9	B	103	BCL	C1D-ND	-2.68	1.34	1.37
10	8	101	U42	CAC-CAE	-2.68	1.46	1.52
10	G	101	U42	CBM-CBJ	-2.67	1.35	1.43
11	C	401	U4Z	CBB-CAV	-2.66	1.35	1.43
10	8	101	U42	CBA-CAW	-2.66	1.31	1.34
9	S	103	BCL	C3D-C2D	2.66	1.46	1.39
9	W	102	BCL	C3D-C2D	2.66	1.46	1.39
10	I	104	U42	CBA-CAW	-2.65	1.31	1.34
9	I	103	BCL	MG-NA	-2.65	2.00	2.06
9	O	103	BCL	C3D-C2D	2.65	1.46	1.39
10	Q	101	U42	CAQ-CAR	-2.65	1.40	1.45
10	8	101	U42	CAU-CAR	-2.65	1.45	1.50
9	D	101	BCL	MG-NA	-2.65	2.00	2.06
9	0	101	BCL	CHD-C1D	2.64	1.43	1.38
9	Q	103	BCL	C3D-C2D	2.64	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	E	102	BCL	C3D-C2D	2.64	1.46	1.39
9	6	102	BCL	MG-NA	-2.64	2.00	2.06
10	B	101	U42	C20-C19	-2.63	1.42	1.52
10	I	101	U42	CAP-CAQ	2.62	1.41	1.34
9	I	103	BCL	C3D-C2D	2.62	1.46	1.39
11	C	401	U4Z	CBF-CBH	-2.62	1.40	1.45
9	2	102	BCL	C1B-CHB	2.62	1.48	1.41
9	M	701	BCL	MG-NA	-2.61	2.00	2.06
9	4	103	BCL	C3D-C2D	2.61	1.46	1.39
10	I	104	U42	C6-C5	-2.61	1.45	1.52
9	K	102	BCL	CAA-C2A	-2.61	1.49	1.54
10	Q	101	U42	CBM-CBJ	-2.60	1.35	1.43
9	O	102	BCL	CHD-C1D	2.60	1.43	1.38
10	E	101	U42	CAL-CAM	-2.59	1.40	1.45
9	P	101	BCL	C4B-CHC	2.59	1.48	1.41
9	I	103	BCL	OBD-CAD	2.59	1.26	1.22
10	S	101	U42	C26-C25	-2.58	1.37	1.51
11	C	401	U4Z	CAH-CAD	2.57	1.38	1.34
9	O	103	BCL	OBD-CAD	2.57	1.26	1.22
9	6	102	BCL	C3D-C2D	2.57	1.46	1.39
10	I	101	U42	C25-C24	-2.57	1.37	1.51
9	H	101	BCL	MG-NA	-2.56	2.00	2.06
9	W	102	BCL	OBD-CAD	2.56	1.26	1.22
9	A	101	BCL	C4D-CHA	2.55	1.47	1.38
10	S	101	U42	C20-C19	-2.55	1.42	1.52
9	8	103	BCL	CHD-C4C	2.55	1.46	1.39
9	A	101	BCL	C4B-CHC	2.54	1.48	1.41
9	E	102	BCL	CHD-C4C	2.54	1.46	1.39
9	I	103	BCL	CHD-C4C	2.53	1.46	1.39
10	4	101	U42	C19-C18	-2.53	1.43	1.50
9	O	103	BCL	CHD-C1D	2.53	1.43	1.38
10	E	101	U42	CBG-CBB	2.53	1.42	1.36
9	K	102	BCL	MG-NA	-2.52	2.00	2.06
9	6	102	BCL	C4B-NB	-2.52	1.33	1.35
9	4	103	BCL	C3C-C4C	-2.51	1.48	1.51
9	B	103	BCL	MG-NC	-2.51	2.00	2.06
9	W	101	BCL	MG-NA	-2.51	2.00	2.06
10	U	101	U42	CAL-CAM	-2.51	1.40	1.45
9	0	102	BCL	C3D-C2D	2.50	1.45	1.39
10	G	101	U42	C30-C29	-2.49	1.37	1.51
9	2	102	BCL	CHD-C4C	2.49	1.46	1.39
10	I	101	U42	CBA-CAW	-2.49	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	S	103	BCL	C3C-C4C	-2.48	1.48	1.51
9	G	102	BCL	CHD-C4C	2.48	1.46	1.39
10	4	104	U42	CAP-CAQ	2.47	1.40	1.34
10	O	101	U42	CAL-CAJ	2.47	1.40	1.33
10	4	104	U42	CBM-CBJ	-2.47	1.35	1.43
10	4	104	U42	CAB-CAD	-2.47	1.50	1.53
11	N	102	U4Z	CAQ-CAR	-2.46	1.40	1.45
10	B	101	U42	C27-C26	-2.46	1.37	1.51
9	Q	103	BCL	CHD-C4C	2.46	1.46	1.39
11	C	401	U4Z	CBN-CBL	-2.46	1.40	1.45
9	2	101	BCL	CHD-C4C	2.45	1.46	1.39
10	4	101	U42	C27-C26	-2.45	1.37	1.51
9	4	103	BCL	CHD-C4C	2.45	1.46	1.39
10	G	101	U42	C20-C19	-2.44	1.43	1.52
10	B	101	U42	CAL-CAJ	2.44	1.40	1.33
10	E	101	U42	CBM-CBJ	-2.44	1.35	1.43
10	I	104	U42	CAC-CAE	-2.44	1.46	1.52
10	U	101	U42	C27-C26	-2.43	1.37	1.51
9	B	103	BCL	OBD-CAD	2.43	1.26	1.22
11	1	102	U4Z	CAQ-CAR	-2.43	1.40	1.45
9	Q	102	BCL	MG-NC	-2.43	2.00	2.06
9	B	103	BCL	CHD-C4C	2.43	1.46	1.39
9	S	103	BCL	CHD-C4C	2.42	1.46	1.39
10	E	101	U42	C26-C25	-2.42	1.38	1.51
9	2	102	BCL	MG-NA	-2.42	2.00	2.06
9	U	103	BCL	CHD-C4C	2.42	1.46	1.39
9	I	102	BCL	MG-NA	-2.42	2.00	2.06
9	2	102	BCL	OBD-CAD	2.42	1.26	1.22
18	L	1005	BPH	C3A-C2A	-2.41	1.52	1.54
9	P	101	BCL	C4D-CHA	2.41	1.47	1.38
10	B	101	U42	C28-C27	-2.41	1.38	1.51
11	1	102	U4Z	CBN-CBL	-2.41	1.40	1.45
9	L	1001	BCL	C1D-C2D	2.41	1.50	1.45
9	G	102	BCL	OBD-CAD	2.40	1.26	1.22
9	S	102	BCL	CAA-C2A	-2.40	1.49	1.54
10	S	101	U42	CBJ-CBH	2.40	1.39	1.35
9	4	102	BCL	MG-NA	-2.40	2.00	2.06
9	5	101	BCL	CHD-C4C	2.40	1.46	1.39
11	J	102	U4Z	CAQ-CAR	-2.39	1.40	1.45
11	7	102	U4Z	CBN-CBL	-2.39	1.40	1.45
11	D	103	U4Z	CAQ-CAR	-2.39	1.40	1.45
10	I	104	U42	C27-C26	-2.39	1.38	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	K	102	BCL	C3C-C4C	-2.39	1.48	1.51
9	K	102	BCL	CHD-C4C	2.39	1.45	1.39
10	4	101	U42	C29-C28	-2.39	1.38	1.51
9	W	102	BCL	CHD-C4C	2.39	1.45	1.39
11	7	102	U4Z	CAQ-CAR	-2.39	1.40	1.45
9	J	101	BCL	CHD-C4C	2.38	1.45	1.39
9	7	101	BCL	CHD-C4C	2.38	1.45	1.39
9	3	101	BCL	CHD-C4C	2.38	1.45	1.39
9	B	102	BCL	MG-NC	-2.38	2.00	2.06
11	9	101	U4Z	CAQ-CAR	-2.38	1.40	1.45
10	B	101	U42	CBN-CBL	-2.38	1.40	1.45
9	A	101	BCL	C1B-CHB	2.38	1.47	1.41
9	U	103	BCL	OBD-CAD	2.38	1.26	1.22
9	P	101	BCL	C1B-CHB	2.38	1.47	1.41
11	P	102	U4Z	CAQ-CAR	-2.38	1.40	1.45
9	I	103	BCL	MG-NC	-2.38	2.00	2.06
9	E	102	BCL	MG-NC	-2.37	2.00	2.06
11	5	102	U4Z	CBN-CBL	-2.37	1.40	1.45
11	P	102	U4Z	CBN-CBL	-2.37	1.40	1.45
9	I	102	BCL	MG-NC	-2.37	2.00	2.06
11	F	103	U4Z	CAQ-CAR	-2.37	1.40	1.45
9	6	101	BCL	MG-NA	-2.36	2.00	2.06
11	3	102	U4Z	CBN-CBL	-2.36	1.40	1.45
9	8	102	BCL	MG-NA	-2.36	2.00	2.06
9	0	101	BCL	MG-NC	-2.36	2.00	2.06
10	G	101	U42	CAP-CAQ	2.35	1.40	1.34
9	D	101	BCL	C3C-C4C	-2.35	1.48	1.51
11	7	102	U4Z	CBF-CBH	-2.35	1.40	1.45
9	F	101	BCL	MG-NA	-2.35	2.00	2.06
9	L	1002	BCL	MG-NC	-2.35	2.00	2.06
9	9	102	BCL	MG-NA	-2.34	2.00	2.06
11	T	102	U4Z	CAQ-CAR	-2.34	1.40	1.45
10	O	101	U42	CAT-CAS	-2.34	1.43	1.52
9	U	102	BCL	MG-NC	-2.34	2.00	2.06
9	T	101	BCL	CHD-C4C	2.34	1.45	1.39
9	Q	102	BCL	MG-NA	-2.34	2.00	2.06
10	I	101	U42	CBM-CBJ	-2.34	1.36	1.43
11	S	104	U4Z	CAQ-CAR	-2.34	1.40	1.45
9	0	102	BCL	MG-NC	-2.34	2.00	2.06
11	H	102	U4Z	CAQ-CAR	-2.34	1.40	1.45
10	I	101	U42	C29-C28	-2.34	1.38	1.51
11	1	102	U4Z	CBF-CBH	-2.34	1.40	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	9	102	BCL	CHD-C4C	2.33	1.45	1.39
10	Q	101	U42	CAO-CAM	2.33	1.38	1.35
9	L	1002	BCL	CHD-C4C	2.33	1.45	1.39
9	O	103	BCL	CHD-C4C	2.33	1.45	1.39
9	D	102	BCL	MG-NA	-2.33	2.00	2.06
9	U	103	BCL	MG-NC	-2.33	2.00	2.06
10	4	101	U42	C23-C22	-2.33	1.38	1.51
9	0	102	BCL	CHD-C4C	2.33	1.45	1.39
11	F	103	U4Z	CBN-CBL	-2.33	1.40	1.45
9	E	102	BCL	MG-NA	-2.33	2.00	2.06
11	C	401	U4Z	CAP-CAQ	2.32	1.40	1.34
11	3	102	U4Z	CAQ-CAR	-2.32	1.41	1.45
10	G	101	U42	C19-C18	-2.32	1.43	1.50
11	H	102	U4Z	CBN-CBL	-2.32	1.41	1.45
10	I	101	U42	C26-C25	-2.32	1.38	1.51
9	K	102	BCL	C1B-CHB	2.32	1.47	1.41
9	4	102	BCL	MG-NC	-2.32	2.00	2.06
9	D	102	BCL	MG-NC	-2.32	2.00	2.06
9	6	102	BCL	OBD-CAD	2.32	1.26	1.22
11	A	102	U4Z	CBN-CBL	-2.32	1.41	1.45
11	J	102	U4Z	CBN-CBL	-2.32	1.41	1.45
11	T	102	U4Z	CBN-CBL	-2.32	1.41	1.45
10	4	104	U42	CBA-CAW	-2.32	1.31	1.34
9	6	102	BCL	MG-NC	-2.31	2.00	2.06
9	E	102	BCL	C1D-C2D	2.31	1.49	1.45
9	K	101	BCL	MG-NA	-2.31	2.00	2.06
9	V	101	BCL	CHD-C4C	2.31	1.45	1.39
9	0	101	BCL	MG-NA	-2.31	2.00	2.06
9	T	101	BCL	MG-NA	-2.31	2.00	2.06
9	6	102	BCL	CHD-C4C	2.31	1.45	1.39
9	W	101	BCL	CHD-C4C	2.31	1.45	1.39
10	O	101	U42	C20-C19	-2.30	1.43	1.52
9	F	101	BCL	CHD-C4C	2.30	1.45	1.39
9	3	101	BCL	MG-NA	-2.30	2.00	2.06
9	8	102	BCL	MG-NC	-2.30	2.00	2.06
11	D	103	U4Z	CBF-CBH	-2.30	1.41	1.45
9	5	101	BCL	MG-NA	-2.30	2.00	2.06
11	N	102	U4Z	CBF-CBH	-2.30	1.41	1.45
10	I	104	U42	CBG-CBB	2.30	1.42	1.36
9	1	101	BCL	MG-NA	-2.30	2.00	2.06
11	5	102	U4Z	CAQ-CAR	-2.29	1.41	1.45
9	L	1002	BCL	C4B-CHC	2.29	1.47	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	E	101	U42	C30-C29	-2.29	1.38	1.51
9	1	101	BCL	CHD-C4C	2.29	1.45	1.39
9	R	101	BCL	MG-NA	-2.29	2.00	2.06
11	F	103	U4Z	CBF-CBH	-2.29	1.41	1.45
9	O	102	BCL	MG-NA	-2.29	2.00	2.06
11	C	401	U4Z	CAI-CAH	-2.29	1.46	1.51
10	4	104	U42	CBG-CBI	-2.29	1.36	1.43
9	K	102	BCL	MG-NC	-2.29	2.00	2.06
11	A	102	U4Z	CAQ-CAR	-2.28	1.41	1.45
9	Q	103	BCL	MG-NA	-2.28	2.00	2.06
11	H	102	U4Z	CBF-CBH	-2.28	1.41	1.45
9	2	102	BCL	C1D-C2D	2.28	1.49	1.45
9	R	101	BCL	CHD-C4C	2.28	1.45	1.39
9	8	103	BCL	MG-NA	-2.28	2.00	2.06
18	L	1003	BPH	C2C-C3C	-2.28	1.52	1.54
11	D	103	U4Z	CBN-CBL	-2.28	1.41	1.45
9	4	103	BCL	C1D-C2D	2.28	1.49	1.45
9	G	102	BCL	C1D-C2D	2.28	1.49	1.45
9	S	102	BCL	MG-NA	-2.27	2.00	2.06
9	M	701	BCL	CHD-C4C	2.27	1.45	1.39
9	7	101	BCL	MG-NA	-2.27	2.00	2.06
10	S	101	U42	CAT-CAS	-2.27	1.43	1.52
9	B	102	BCL	MG-NA	-2.27	2.00	2.06
9	S	103	BCL	MG-NC	-2.27	2.00	2.06
11	5	102	U4Z	CBF-CBH	-2.27	1.41	1.45
11	J	102	U4Z	CBF-CBH	-2.27	1.41	1.45
9	S	102	BCL	CHD-C4C	2.27	1.45	1.39
10	Q	101	U42	C19-C18	-2.26	1.44	1.50
9	J	101	BCL	MG-NA	-2.26	2.00	2.06
9	F	102	BCL	MG-NA	-2.26	2.00	2.06
9	K	101	BCL	CHD-C4C	2.26	1.45	1.39
11	9	101	U4Z	CBN-CBL	-2.26	1.41	1.45
9	O	102	BCL	MG-NC	-2.26	2.00	2.06
9	N	101	BCL	CHD-C4C	2.25	1.45	1.39
9	D	101	BCL	CHD-C4C	2.25	1.45	1.39
10	B	101	U42	CBM-CBJ	-2.25	1.36	1.43
9	4	103	BCL	MG-NC	-2.25	2.00	2.06
9	B	103	BCL	C1D-C2D	2.25	1.49	1.45
9	W	102	BCL	MG-NA	-2.25	2.00	2.06
10	S	101	U42	C27-C26	-2.24	1.39	1.51
9	V	101	BCL	MG-NC	-2.24	2.00	2.06
9	H	101	BCL	CHD-C4C	2.24	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	B	101	U42	CAQ-CAR	-2.24	1.41	1.45
9	2	102	BCL	CAA-C2A	-2.24	1.49	1.54
9	A	101	BCL	C3D-C4D	-2.24	1.39	1.44
10	I	104	U42	CBN-CBL	-2.24	1.41	1.45
10	Q	101	U42	CBE-CBA	-2.24	1.36	1.43
10	Q	101	U42	C26-C25	-2.24	1.39	1.51
9	P	101	BCL	C3D-C4D	-2.23	1.39	1.44
9	B	103	BCL	CAA-C2A	-2.23	1.50	1.54
10	I	104	U42	CBM-CBJ	-2.23	1.36	1.43
10	O	101	U42	C26-C25	-2.23	1.39	1.51
9	0	102	BCL	MG-NA	-2.23	2.01	2.06
11	9	101	U4Z	CBF-CBH	-2.23	1.41	1.45
10	I	104	U42	CBG-CBI	-2.23	1.36	1.43
9	S	102	BCL	C4B-CHC	2.23	1.47	1.41
10	S	101	U42	CBM-CBJ	-2.23	1.36	1.43
9	U	103	BCL	C1B-CHB	2.23	1.47	1.41
10	U	101	U42	C26-C25	-2.22	1.39	1.51
11	3	102	U4Z	CBF-CBH	-2.22	1.41	1.45
9	S	103	BCL	C1D-C2D	2.22	1.49	1.45
10	I	101	U42	CAL-CAM	-2.22	1.41	1.45
9	E	102	BCL	C3A-C2A	-2.21	1.48	1.54
9	6	102	BCL	C1D-C2D	2.21	1.49	1.45
9	Q	103	BCL	MG-NC	-2.21	2.01	2.06
9	K	101	BCL	MG-NC	-2.21	2.01	2.06
10	O	101	U42	CBM-CBJ	-2.21	1.36	1.43
9	S	102	BCL	MG-NC	-2.21	2.01	2.06
11	T	102	U4Z	CBF-CBH	-2.21	1.41	1.45
9	6	101	BCL	C4B-CHC	2.21	1.47	1.41
11	P	102	U4Z	CBF-CBH	-2.21	1.41	1.45
9	F	102	BCL	CHD-C4C	2.20	1.45	1.39
9	2	102	BCL	C3A-C2A	-2.20	1.48	1.54
9	B	103	BCL	MG-NA	-2.20	2.01	2.06
10	I	104	U42	C28-C27	-2.20	1.39	1.51
11	V	102	U4Z	CAQ-CAR	-2.20	1.41	1.45
9	F	102	BCL	MG-NC	-2.20	2.01	2.06
10	4	101	U42	CAN-CAM	-2.20	1.46	1.50
10	4	104	U42	C28-C27	-2.20	1.39	1.51
9	6	101	BCL	MG-NC	-2.19	2.01	2.06
9	B	102	BCL	CHD-C4C	2.19	1.45	1.39
11	V	102	U4Z	CBN-CBL	-2.19	1.41	1.45
10	G	101	U42	C26-C25	-2.19	1.39	1.51
11	S	104	U4Z	CBN-CBL	-2.19	1.41	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	U	102	BCL	CHD-C4C	2.19	1.45	1.39
10	4	101	U42	CAL-CAJ	2.18	1.39	1.33
9	K	102	BCL	C3A-C2A	-2.18	1.48	1.54
9	W	102	BCL	MG-NC	-2.18	2.01	2.06
9	S	103	BCL	MG-NA	-2.18	2.01	2.06
10	G	101	U42	CAT-CAS	-2.18	1.44	1.52
9	U	102	BCL	C4B-CHC	2.18	1.47	1.41
9	B	103	BCL	C3A-C2A	-2.18	1.48	1.54
9	U	103	BCL	MG-NA	-2.18	2.01	2.06
9	D	102	BCL	CHD-C4C	2.18	1.45	1.39
10	G	101	U42	CBG-CBI	-2.18	1.36	1.43
9	G	102	BCL	MG-NC	-2.17	2.01	2.06
9	2	102	BCL	MG-NC	-2.17	2.01	2.06
9	I	102	BCL	CHD-C4C	2.17	1.45	1.39
10	U	101	U42	CAP-CAQ	2.17	1.40	1.34
9	6	101	BCL	CHD-C4C	2.17	1.45	1.39
11	N	102	U4Z	CBN-CBL	-2.17	1.41	1.45
9	Q	102	BCL	CHD-C4C	2.17	1.45	1.39
9	K	102	BCL	C1D-C2D	2.17	1.49	1.45
9	0	101	BCL	C4B-CHC	2.16	1.47	1.41
11	A	102	U4Z	CBF-CBH	-2.16	1.41	1.45
10	4	101	U42	C28-C27	-2.16	1.39	1.51
9	I	103	BCL	C1D-C2D	2.16	1.49	1.45
9	U	102	BCL	MG-NA	-2.16	2.01	2.06
10	4	101	U42	CAT-CAS	-2.15	1.44	1.52
10	4	104	U42	CAT-CAS	-2.15	1.44	1.52
10	Q	101	U42	CAP-CAQ	2.15	1.40	1.34
10	B	101	U42	C30-C29	-2.15	1.39	1.51
10	I	101	U42	CAX-CAY	2.15	1.56	1.53
9	W	102	BCL	C1B-CHB	2.15	1.47	1.41
9	L	1001	BCL	C4B-CHC	2.14	1.47	1.41
9	G	102	BCL	MG-NA	-2.14	2.01	2.06
9	O	102	BCL	C1B-CHB	2.14	1.46	1.41
11	V	102	U4Z	CBF-CBH	-2.14	1.41	1.45
9	T	101	BCL	C1B-CHB	2.14	1.46	1.41
9	W	101	BCL	C4B-CHC	2.13	1.46	1.41
9	4	103	BCL	C1B-NB	-2.13	1.33	1.35
10	0	103	U42	CAL-CAM	-2.13	1.41	1.45
11	S	104	U4Z	CBF-CBH	-2.13	1.41	1.45
9	8	103	BCL	C3A-C2A	-2.12	1.48	1.54
9	0	102	BCL	C1D-C2D	2.12	1.49	1.45
9	7	101	BCL	MG-NC	-2.12	2.01	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	2	101	BCL	C1B-CHB	2.12	1.46	1.41
10	I	104	U42	CAP-CAQ	2.12	1.40	1.34
9	8	102	BCL	CHD-C4C	2.12	1.45	1.39
10	G	101	U42	C6-C5	-2.11	1.46	1.52
9	H	101	BCL	C1B-CHB	2.11	1.46	1.41
9	N	101	BCL	MG-NA	-2.11	2.01	2.06
9	5	101	BCL	MG-NC	-2.11	2.01	2.06
10	4	101	U42	O2-C18	-2.11	1.16	1.22
10	Q	101	U42	C27-C26	-2.11	1.39	1.51
10	4	104	U42	CAC-CAE	-2.11	1.47	1.52
10	G	101	U42	C27-C26	-2.10	1.39	1.51
9	7	101	BCL	C4B-NB	-2.10	1.33	1.35
9	O	103	BCL	C4B-NB	-2.10	1.33	1.35
10	I	101	U42	CAB-CAD	-2.10	1.50	1.53
9	8	103	BCL	C1D-C2D	2.10	1.49	1.45
9	Q	103	BCL	C1D-C2D	2.10	1.49	1.45
9	Q	103	BCL	C1B-CHB	2.10	1.46	1.41
9	J	101	BCL	MG-NC	-2.10	2.01	2.06
9	O	102	BCL	CHD-C4C	2.10	1.45	1.39
9	Q	103	BCL	OBD-CAD	2.10	1.26	1.22
11	C	401	U4Z	CAL-CAJ	2.10	1.39	1.33
9	M	701	BCL	C1B-CHB	2.10	1.46	1.41
10	G	101	U42	CAB-CAD	-2.09	1.50	1.53
9	W	102	BCL	C1D-C2D	2.09	1.49	1.45
10	G	101	U42	O2-C18	-2.09	1.16	1.22
10	4	104	U42	C27-C26	-2.09	1.39	1.51
13	L	1015	BGL	C3-C2	-2.09	1.46	1.52
9	L	1002	BCL	C1D-C2D	2.09	1.49	1.45
9	4	102	BCL	CHD-C4C	2.09	1.45	1.39
9	8	103	BCL	C1B-CHB	2.09	1.46	1.41
9	V	101	BCL	C4B-CHC	2.09	1.46	1.41
9	2	102	BCL	C4B-NB	-2.08	1.33	1.35
9	T	101	BCL	C3C-C4C	-2.08	1.49	1.51
9	I	103	BCL	CAA-C2A	-2.08	1.50	1.54
9	L	1001	BCL	MG-NC	-2.08	2.01	2.06
9	0	101	BCL	C1B-CHB	2.08	1.46	1.41
9	2	102	BCL	C3C-C4C	-2.07	1.49	1.51
10	E	101	U42	C28-C27	-2.07	1.40	1.51
9	F	101	BCL	C3C-C4C	-2.07	1.49	1.51
10	E	101	U42	CAU-CAR	-2.06	1.46	1.50
9	M	701	BCL	C1D-C2D	2.06	1.49	1.45
9	4	102	BCL	C4B-CHC	2.06	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	E	101	U42	C25-C24	-2.06	1.40	1.51
9	P	101	BCL	C4B-NB	-2.06	1.33	1.35
10	B	101	U42	C29-C28	-2.06	1.40	1.51
9	M	701	BCL	MG-NC	-2.05	2.01	2.06
9	0	101	BCL	CHD-C4C	2.05	1.45	1.39
9	B	102	BCL	C4B-CHC	2.05	1.46	1.41
9	I	103	BCL	C1B-CHB	2.05	1.46	1.41
9	F	102	BCL	C4B-CHC	2.05	1.46	1.41
9	I	102	BCL	C4B-CHC	2.05	1.46	1.41
9	2	101	BCL	MG-NC	-2.05	2.01	2.06
9	6	101	BCL	C3C-C4C	-2.04	1.49	1.51
10	0	103	U42	C28-C27	-2.04	1.40	1.51
9	L	1002	BCL	MG-NA	-2.04	2.01	2.06
9	D	102	BCL	C4B-CHC	2.04	1.46	1.41
9	O	103	BCL	C1B-CHB	2.03	1.46	1.41
11	C	401	U4Z	CAP-CAO	-2.03	1.37	1.43
10	I	101	U42	C22-C21	-2.03	1.40	1.51
9	U	103	BCL	C1D-C2D	2.03	1.49	1.45
9	8	103	BCL	MG-NC	-2.03	2.01	2.06
9	D	101	BCL	MG-NC	-2.03	2.01	2.06
9	R	101	BCL	C1B-CHB	2.03	1.46	1.41
10	Q	101	U42	C20-C19	-2.03	1.44	1.52
9	M	701	BCL	C2C-C3C	-2.03	1.48	1.54
9	A	101	BCL	C4B-NB	-2.03	1.33	1.35
9	8	102	BCL	C4B-CHC	2.03	1.46	1.41
9	S	103	BCL	C1B-NB	-2.02	1.33	1.35
9	8	102	BCL	C1B-CHB	2.02	1.46	1.41
9	Q	102	BCL	C4B-CHC	2.02	1.46	1.41
9	A	101	BCL	C1B-NB	-2.02	1.33	1.35
9	G	102	BCL	C3C-C4C	-2.02	1.49	1.51
9	H	101	BCL	C3C-C4C	-2.02	1.49	1.51
9	P	101	BCL	C1B-NB	-2.02	1.33	1.35
9	D	101	BCL	C1B-CHB	2.01	1.46	1.41
10	I	101	U42	O2-C18	-2.01	1.16	1.22
9	V	101	BCL	MG-NA	-2.01	2.01	2.06
10	U	104	U42	CAL-CAJ	2.01	1.39	1.33
9	3	101	BCL	MG-NC	-2.01	2.01	2.06
11	7	102	U4Z	CAI-CAH	-2.01	1.47	1.51
9	E	102	BCL	C4B-CHC	2.01	1.46	1.41
9	Q	102	BCL	C3C-C4C	-2.01	1.49	1.51
9	1	101	BCL	MG-NC	-2.00	2.01	2.06
9	W	101	BCL	C1B-CHB	2.00	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	9	102	BCL	MG-NC	-2.00	2.01	2.06
9	4	102	BCL	C1B-CHB	2.00	1.46	1.41
10	G	101	U42	C31-C30	-2.00	1.37	1.51

All (1578) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	G	101	U42	CAL-CAM-CAO	12.51	138.14	118.94
10	I	101	U42	CAL-CAM-CAO	10.77	135.47	118.94
10	4	104	U42	CAL-CAM-CAO	10.53	135.10	118.94
10	8	101	U42	CAL-CAM-CAO	9.84	134.04	118.94
10	U	101	U42	CAL-CAM-CAO	9.38	133.33	118.94
10	I	104	U42	CAL-CAM-CAO	9.07	132.85	118.94
9	4	103	BCL	CHD-C1D-ND	-8.73	116.43	124.45
9	6	102	BCL	CHD-C1D-ND	-8.71	116.45	124.45
9	E	102	BCL	CHD-C1D-ND	-8.68	116.47	124.45
9	K	102	BCL	CHD-C1D-ND	-8.68	116.48	124.45
9	I	103	BCL	CHD-C1D-ND	-8.68	116.48	124.45
9	B	103	BCL	CHD-C1D-ND	-8.67	116.49	124.45
9	1	101	BCL	O2D-CGD-CBD	8.64	126.62	111.27
9	S	103	BCL	CHD-C1D-ND	-8.60	116.56	124.45
9	6	102	BCL	CMD-C2D-C1D	8.58	139.83	124.71
9	G	102	BCL	CHD-C1D-ND	-8.56	116.59	124.45
9	0	102	BCL	CHD-C1D-ND	-8.55	116.60	124.45
9	O	103	BCL	CHD-C1D-ND	-8.45	116.69	124.45
9	0	102	BCL	CMD-C2D-C1D	8.40	139.52	124.71
9	4	103	BCL	CMD-C2D-C1D	8.39	139.49	124.71
9	8	103	BCL	CHD-C1D-ND	-8.35	116.78	124.45
9	I	102	BCL	O2D-CGD-CBD	8.35	126.10	111.27
9	Q	103	BCL	CHD-C1D-ND	-8.34	116.79	124.45
9	E	102	BCL	CMD-C2D-C1D	8.31	139.35	124.71
10	I	104	U42	CBB-CBG-CBI	8.30	140.48	123.47
9	L	1001	BCL	CHD-C1D-ND	-8.26	116.86	124.45
9	G	102	BCL	CMD-C2D-C1D	8.24	139.24	124.71
9	2	102	BCL	CHD-C1D-ND	-8.24	116.88	124.45
9	W	102	BCL	CHD-C1D-ND	-8.21	116.91	124.45
9	U	103	BCL	CHD-C1D-ND	-8.17	116.94	124.45
9	I	103	BCL	CMD-C2D-C1D	8.15	139.08	124.71
9	K	102	BCL	CMD-C2D-C1D	8.10	138.99	124.71
9	W	102	BCL	CMD-C2D-C1D	8.09	138.97	124.71
9	Q	103	BCL	CMD-C2D-C1D	8.06	138.92	124.71
9	B	103	BCL	CMD-C2D-C1D	8.05	138.90	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	H	101	BCL	CHD-C1D-ND	-8.00	117.10	124.45
9	S	103	BCL	CMD-C2D-C1D	7.98	138.78	124.71
10	U	104	U42	CAL-CAM-CAO	7.98	131.18	118.94
9	O	103	BCL	CMD-C2D-C1D	7.98	138.77	124.71
9	8	103	BCL	CMD-C2D-C1D	7.97	138.76	124.71
10	S	101	U42	CAJ-CAL-CAM	7.92	138.20	126.23
9	U	103	BCL	CMD-C2D-C1D	7.80	138.46	124.71
9	2	102	BCL	CMD-C2D-C1D	7.72	138.31	124.71
9	L	1002	BCL	CMD-C2D-C1D	7.65	138.20	124.71
9	2	101	BCL	CHD-C1D-ND	-7.56	117.51	124.45
9	L	1002	BCL	CHD-C1D-ND	-7.54	117.52	124.45
10	4	101	U42	CBB-CBG-CBI	7.50	138.84	123.47
10	I	101	U42	CAJ-CAL-CAM	7.47	137.52	126.23
9	M	701	BCL	CHD-C1D-ND	-7.47	117.59	124.45
9	5	101	BCL	CHD-C1D-ND	-7.42	117.64	124.45
9	D	101	BCL	CHD-C1D-ND	-7.31	117.73	124.45
10	G	101	U42	CAJ-CAL-CAM	7.28	137.23	126.23
10	G	101	U42	CAN-CAM-CAL	-7.27	106.62	118.08
9	L	1001	BCL	CMD-C2D-C1D	7.26	137.51	124.71
9	J	101	BCL	CHD-C1D-ND	-7.23	117.81	124.45
9	M	701	BCL	CMD-C2D-C1D	7.19	137.39	124.71
11	C	401	U4Z	CBO-CBL-CBI	-7.11	112.97	122.92
9	7	101	BCL	CHD-C1D-ND	-7.08	117.94	124.45
9	1	101	BCL	CHD-C1D-ND	-7.08	117.95	124.45
9	3	101	BCL	CHD-C1D-ND	-7.06	117.97	124.45
10	U	104	U42	CBB-CBG-CBI	7.05	137.92	123.47
9	M	701	BCL	O2D-CGD-CBD	7.03	123.76	111.27
9	F	101	BCL	CHD-C1D-ND	-7.02	118.00	124.45
10	I	101	U42	CBB-CBG-CBI	7.01	137.84	123.47
9	O	102	BCL	C2D-C1D-ND	6.99	115.26	110.10
9	9	102	BCL	CHD-C1D-ND	-6.93	118.09	124.45
9	T	101	BCL	CHD-C1D-ND	-6.92	118.10	124.45
10	0	103	U42	CBB-CBG-CBI	6.91	137.63	123.47
9	H	101	BCL	CMD-C2D-C1D	6.88	136.83	124.71
18	L	1003	BPH	O2D-CGD-CBD	6.80	119.61	111.00
9	F	101	BCL	CMD-C2D-C1D	6.75	136.61	124.71
9	J	101	BCL	CMD-C2D-C1D	6.74	136.58	124.71
9	N	101	BCL	CHD-C1D-ND	-6.70	118.30	124.45
9	P	101	BCL	C4A-NA-C1A	-6.69	103.70	106.71
9	T	101	BCL	CMD-C2D-C1D	6.68	136.48	124.71
10	0	103	U42	CBG-CBB-CAV	6.65	137.10	123.47
9	1	101	BCL	CMD-C2D-C1D	6.64	136.41	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	A	101	BCL	CHD-C1D-ND	-6.64	118.36	124.45
9	7	101	BCL	CMD-C2D-C1D	6.63	136.41	124.71
9	5	101	BCL	CMD-C2D-C1D	6.63	136.39	124.71
9	A	101	BCL	CAC-C3C-C4C	6.60	127.23	112.58
9	3	101	BCL	CMD-C2D-C1D	6.60	136.34	124.71
9	D	101	BCL	CMD-C2D-C1D	6.56	136.28	124.71
9	W	101	BCL	CHD-C1D-ND	-6.56	118.43	124.45
9	V	101	BCL	CHD-C1D-ND	-6.56	118.43	124.45
9	R	101	BCL	CHD-C1D-ND	-6.54	118.44	124.45
9	9	102	BCL	CMD-C2D-C1D	6.51	136.18	124.71
9	P	101	BCL	CAC-C3C-C4C	6.48	126.98	112.58
11	C	401	U4Z	CBN-CBL-CBI	6.44	128.82	118.94
9	0	101	BCL	C2D-C1D-ND	6.43	114.84	110.10
9	N	101	BCL	CMD-C2D-C1D	6.41	136.02	124.71
10	I	104	U42	CAQ-CAR-CAV	6.40	128.76	118.94
10	B	101	U42	CBB-CBG-CBI	6.38	136.53	123.47
9	L	1001	BCL	O2D-CGD-CBD	6.36	122.57	111.27
9	B	102	BCL	C2D-C1D-ND	6.35	114.78	110.10
10	0	103	U42	CAL-CAM-CAO	6.31	128.62	118.94
9	9	102	BCL	O2D-CGD-CBD	6.28	122.43	111.27
9	2	101	BCL	C2D-C1D-ND	6.27	114.73	110.10
9	A	101	BCL	CMC-C2C-C1C	6.26	128.59	111.77
10	U	101	U42	CAN-CAM-CAO	-6.25	114.17	122.92
9	Q	102	BCL	C2D-C1D-ND	6.23	114.70	110.10
18	L	1003	BPH	CAC-C3C-C4C	6.23	127.65	113.73
9	6	101	BCL	C2D-C1D-ND	6.22	114.69	110.10
9	P	101	BCL	CMC-C2C-C1C	6.22	128.49	111.77
9	R	101	BCL	CMD-C2D-C1D	6.21	135.66	124.71
9	O	103	BCL	C2D-C1D-ND	6.20	114.68	110.10
9	P	101	BCL	O2D-CGD-CBD	6.19	122.27	111.27
9	4	102	BCL	C2D-C1D-ND	6.17	114.65	110.10
9	R	101	BCL	O2D-CGD-CBD	6.16	122.22	111.27
9	V	101	BCL	CMD-C2D-C1D	6.13	135.51	124.71
9	K	102	BCL	O2D-CGD-CBD	6.12	122.15	111.27
9	Q	103	BCL	C2D-C1D-ND	6.12	114.61	110.10
10	8	101	U42	CAJ-CAL-CAM	6.11	135.47	126.23
9	1	101	BCL	C2D-C1D-ND	6.09	114.59	110.10
9	W	102	BCL	C2D-C1D-ND	6.09	114.59	110.10
9	D	102	BCL	C2D-C1D-ND	6.08	114.59	110.10
9	D	101	BCL	O2D-CGD-CBD	6.07	122.05	111.27
9	3	101	BCL	O2D-CGD-CBD	6.06	122.04	111.27
9	S	102	BCL	C2D-C1D-ND	6.05	114.56	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	0	103	U42	CAJ-CAL-CAM	6.04	135.35	126.23
10	0	103	U42	CAP-CAO-CAM	6.03	135.92	127.31
9	H	101	BCL	C2D-C1D-ND	6.02	114.54	110.10
9	N	101	BCL	O2D-CGD-CBD	6.01	121.95	111.27
9	S	102	BCL	CHD-C1D-ND	-5.99	118.94	124.45
9	U	103	BCL	C2D-C1D-ND	5.99	114.52	110.10
9	A	101	BCL	O2D-CGD-CBD	5.99	121.91	111.27
9	D	102	BCL	CHD-C1D-ND	-5.99	118.95	124.45
9	D	101	BCL	C2D-C1D-ND	5.98	114.51	110.10
9	O	103	BCL	C3D-C2D-C1D	-5.98	97.67	105.83
9	I	103	BCL	C2D-C1D-ND	5.98	114.51	110.10
9	K	101	BCL	CHD-C1D-ND	-5.98	118.96	124.45
9	Q	102	BCL	CHD-C1D-ND	-5.97	118.96	124.45
9	0	102	BCL	C2D-C1D-ND	5.97	114.50	110.10
9	T	101	BCL	O2D-CGD-CBD	5.97	121.87	111.27
10	O	101	U42	CBB-CBG-CBI	5.95	135.66	123.47
10	U	104	U42	CAJ-CAL-CAM	5.93	135.19	126.23
10	S	101	U42	CBB-CBG-CBI	5.92	135.60	123.47
9	8	102	BCL	C2D-C1D-ND	5.92	114.47	110.10
9	B	102	BCL	CHD-C1D-ND	-5.91	119.02	124.45
9	0	101	BCL	CHD-C1D-ND	-5.90	119.03	124.45
9	6	102	BCL	C2D-C1D-ND	5.90	114.45	110.10
9	U	102	BCL	C2D-C1D-ND	5.89	114.45	110.10
9	J	101	BCL	C2D-C1D-ND	5.89	114.44	110.10
9	I	102	BCL	CHD-C1D-ND	-5.88	119.05	124.45
10	I	101	U42	CAQ-CAR-CAV	5.88	127.97	118.94
9	J	101	BCL	O2D-CGD-CBD	5.85	121.67	111.27
9	4	103	BCL	C2D-C1D-ND	5.84	114.41	110.10
10	I	104	U42	CAN-CAM-CAO	-5.84	114.75	122.92
9	6	102	BCL	C3D-C2D-C1D	-5.83	97.87	105.83
9	L	1001	BCL	CMB-C2B-C3B	5.82	135.58	124.68
9	Q	103	BCL	C3D-C2D-C1D	-5.82	97.88	105.83
9	9	102	BCL	C2D-C1D-ND	5.78	114.37	110.10
9	U	102	BCL	CHD-C1D-ND	-5.78	119.14	124.45
10	I	101	U42	CAN-CAM-CAL	-5.77	108.98	118.08
9	F	102	BCL	C2D-C1D-ND	5.77	114.36	110.10
10	4	104	U42	CAN-CAM-CAO	-5.76	114.85	122.92
9	H	101	BCL	O2D-CGD-CBD	5.76	121.50	111.27
9	W	101	BCL	C2D-C1D-ND	5.75	114.34	110.10
9	K	102	BCL	C2D-C1D-ND	5.75	114.34	110.10
9	4	102	BCL	CHD-C1D-ND	-5.75	119.17	124.45
9	S	103	BCL	C2D-C1D-ND	5.75	114.34	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	B	103	BCL	C2D-C1D-ND	5.74	114.34	110.10
9	F	101	BCL	O2D-CGD-CBD	5.73	121.46	111.27
9	5	101	BCL	O2D-CGD-CBD	5.72	121.44	111.27
10	E	101	U42	CBB-CBG-CBI	5.72	135.19	123.47
10	I	101	U42	CBG-CBI-CBL	5.68	135.42	127.31
9	O	102	BCL	CHD-C1D-ND	-5.68	119.23	124.45
9	F	102	BCL	CHD-C1D-ND	-5.68	119.24	124.45
9	T	101	BCL	C2D-C1D-ND	5.68	114.29	110.10
9	W	102	BCL	C3D-C2D-C1D	-5.68	98.08	105.83
9	E	102	BCL	C2D-C1D-ND	5.68	114.29	110.10
9	I	102	BCL	C2D-C1D-ND	5.67	114.28	110.10
9	I	103	BCL	C3D-C2D-C1D	-5.66	98.11	105.83
10	4	104	U42	CAJ-CAL-CAM	5.66	134.78	126.23
10	8	101	U42	CBG-CBI-CBL	5.62	135.33	127.31
10	U	104	U42	CAN-CAM-CAO	-5.62	115.06	122.92
10	O	101	U42	CAJ-CAL-CAM	5.61	134.71	126.23
9	B	103	BCL	C3D-C2D-C1D	-5.61	98.18	105.83
9	S	102	BCL	CMB-C2B-C3B	5.60	135.16	124.68
9	U	103	BCL	C3D-C2D-C1D	-5.60	98.18	105.83
9	L	1002	BCL	C2D-C1D-ND	5.60	114.23	110.10
9	D	102	BCL	O2D-CGD-CBD	5.60	121.21	111.27
9	K	101	BCL	C2D-C1D-ND	5.59	114.22	110.10
9	7	101	BCL	O2D-CGD-CBD	5.58	121.19	111.27
9	2	101	BCL	CMD-C2D-C1D	5.58	134.55	124.71
10	B	101	U42	CAQ-CAR-CAV	5.58	127.50	118.94
9	4	103	BCL	C3D-C2D-C1D	-5.57	98.23	105.83
9	N	101	BCL	C2D-C1D-ND	5.56	114.20	110.10
9	7	101	BCL	C2D-C1D-ND	5.56	114.20	110.10
18	L	1003	BPH	CMC-C2C-C1C	5.56	126.54	114.38
9	F	101	BCL	C2D-C1D-ND	5.52	114.17	110.10
9	E	102	BCL	C3D-C2D-C1D	-5.52	98.30	105.83
10	G	101	U42	CAN-CAM-CAO	-5.52	115.19	122.92
9	6	101	BCL	CHD-C1D-ND	-5.51	119.39	124.45
10	8	101	U42	CAN-CAM-CAO	-5.51	115.20	122.92
9	V	101	BCL	C2D-C1D-ND	5.50	114.16	110.10
10	B	101	U42	CAL-CAM-CAO	5.50	127.38	118.94
9	6	101	BCL	CMB-C2B-C3B	5.49	134.96	124.68
10	O	101	U42	CAL-CAM-CAO	5.49	127.37	118.94
9	0	102	BCL	C3D-C2D-C1D	-5.47	98.36	105.83
9	S	103	BCL	C3D-C2D-C1D	-5.46	98.38	105.83
9	B	103	BCL	O2D-CGD-CBD	5.45	120.95	111.27
10	Q	101	U42	CAL-CAM-CAO	5.45	127.30	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	U	102	BCL	CMB-C2B-C3B	5.43	134.84	124.68
10	Q	101	U42	CAJ-CAL-CAM	5.43	134.44	126.23
10	O	101	U42	CBG-CBB-CAV	5.42	134.58	123.47
9	K	101	BCL	O2D-CGD-CBD	5.42	120.89	111.27
9	0	102	BCL	O2D-CGD-CBD	5.39	120.85	111.27
9	R	101	BCL	C2D-C1D-ND	5.39	114.07	110.10
10	U	104	U42	CBG-CBI-CBL	5.38	134.99	127.31
9	G	102	BCL	C3D-C2D-C1D	-5.38	98.49	105.83
9	A	101	BCL	C4A-NA-C1A	-5.37	104.29	106.71
9	K	102	BCL	C3D-C2D-C1D	-5.37	98.51	105.83
9	S	103	BCL	O2D-CGD-CBD	5.34	120.77	111.27
10	I	101	U42	CAN-CAM-CAO	-5.34	115.44	122.92
9	D	102	BCL	CMB-C2B-C3B	5.33	134.65	124.68
9	B	102	BCL	CMB-C2B-C3B	5.33	134.64	124.68
9	8	102	BCL	CHD-C1D-ND	-5.32	119.56	124.45
9	W	101	BCL	CMB-C2B-C3B	5.32	134.63	124.68
9	Q	102	BCL	CMB-C2B-C3B	5.32	134.63	124.68
9	5	101	BCL	C2D-C1D-ND	5.31	114.01	110.10
9	3	101	BCL	C2D-C1D-ND	5.29	114.00	110.10
9	2	102	BCL	O2D-CGD-CBD	5.29	120.67	111.27
9	Q	103	BCL	O2D-CGD-CBD	5.28	120.65	111.27
9	G	102	BCL	C2D-C1D-ND	5.26	113.98	110.10
9	2	102	BCL	C3D-C2D-C1D	-5.25	98.66	105.83
9	H	101	BCL	C3D-C2D-C1D	-5.25	98.67	105.83
9	W	101	BCL	CMD-C2D-C1D	5.24	133.95	124.71
9	K	101	BCL	CMB-C2B-C3B	5.24	134.48	124.68
9	U	103	BCL	O2D-CGD-CBD	5.23	120.56	111.27
9	I	102	BCL	CMB-C2B-C3B	5.19	134.40	124.68
9	L	1002	BCL	C3D-C2D-C1D	-5.19	98.75	105.83
10	U	101	U42	CBB-CBG-CBI	5.19	134.10	123.47
9	4	103	BCL	CMB-C2B-C3B	5.19	134.39	124.68
9	8	103	BCL	C3D-C2D-C1D	-5.18	98.76	105.83
10	O	101	U42	CBG-CBI-CBL	5.17	134.69	127.31
9	4	103	BCL	CHD-C4C-NC	5.16	130.81	125.08
9	O	103	BCL	CHD-C4C-NC	5.16	130.81	125.08
9	4	102	BCL	CMB-C2B-C3B	5.16	134.33	124.68
9	F	102	BCL	CMB-C2B-C3B	5.16	134.32	124.68
9	Q	103	BCL	CHD-C4C-NC	5.14	130.79	125.08
9	W	101	BCL	O2D-CGD-CBD	5.14	120.40	111.27
9	S	102	BCL	CMD-C2D-C1D	5.13	133.75	124.71
9	L	1002	BCL	CMB-C2B-C3B	5.12	134.27	124.68
10	E	101	U42	CBG-CBI-CBL	5.11	134.61	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	F	102	BCL	O2D-CGD-CBD	5.11	120.34	111.27
9	I	103	BCL	CHD-C4C-NC	5.10	130.75	125.08
9	D	101	BCL	C3D-C2D-C1D	-5.10	98.87	105.83
9	O	103	BCL	C4A-NA-C1A	5.10	109.00	106.71
10	4	104	U42	CAN-CAM-CAL	-5.10	110.04	118.08
9	1	101	BCL	C3D-C2D-C1D	-5.10	98.87	105.83
9	J	101	BCL	C3D-C2D-C1D	-5.08	98.90	105.83
9	E	102	BCL	CMB-C2B-C3B	5.06	134.14	124.68
9	9	102	BCL	C3D-C2D-C1D	-5.06	98.93	105.83
9	S	103	BCL	CHD-C4C-NC	5.05	130.69	125.08
9	U	102	BCL	O2D-CGD-CBD	5.04	120.22	111.27
10	S	101	U42	CAC-CAB-CAD	5.03	118.23	110.48
10	G	101	U42	CBG-CBI-CBL	5.02	134.48	127.31
9	7	101	BCL	C3D-C2D-C1D	-5.02	98.98	105.83
9	F	101	BCL	CMB-C2B-C3B	5.02	134.07	124.68
9	F	101	BCL	C3D-C2D-C1D	-5.02	98.98	105.83
9	4	102	BCL	O2D-CGD-CBD	5.02	120.19	111.27
9	J	101	BCL	CMB-C2B-C3B	5.01	134.06	124.68
9	0	101	BCL	CMB-C2B-C3B	5.01	134.05	124.68
9	E	102	BCL	CHD-C4C-NC	5.00	130.63	125.08
9	O	102	BCL	C1D-ND-C4D	-5.00	102.79	106.33
9	6	102	BCL	CMB-C2B-C3B	4.99	134.01	124.68
9	D	101	BCL	CMB-C2B-C3B	4.97	133.98	124.68
10	O	101	U42	CAC-CAB-CAD	4.97	118.13	110.48
9	O	102	BCL	C3C-C4C-CHD	-4.96	112.80	123.39
9	2	102	BCL	C2D-C1D-ND	4.96	113.76	110.10
9	T	101	BCL	C3D-C2D-C1D	-4.95	99.07	105.83
9	M	701	BCL	C2D-C1D-ND	4.95	113.75	110.10
9	U	103	BCL	CHD-C4C-NC	4.94	130.57	125.08
9	H	101	BCL	CMB-C2B-C3B	4.94	133.91	124.68
9	2	101	BCL	O2D-CGD-CBD	4.93	120.04	111.27
9	O	102	BCL	CMB-C2B-C3B	4.93	133.90	124.68
9	6	101	BCL	C3C-C4C-CHD	-4.91	112.91	123.39
9	8	102	BCL	O2D-CGD-CBD	4.90	119.98	111.27
9	I	103	BCL	CMB-C2B-C3B	4.90	133.85	124.68
9	W	102	BCL	CHD-C4C-NC	4.90	130.52	125.08
9	2	101	BCL	CMB-C2B-C3B	4.89	133.82	124.68
10	4	104	U42	CBG-CBB-CAV	4.89	133.48	123.47
9	0	101	BCL	C3C-C4C-CHD	-4.88	112.96	123.39
10	U	104	U42	CBB-CAV-CAR	4.88	134.28	127.31
9	N	101	BCL	C3D-C2D-C1D	-4.88	99.18	105.83
10	Q	101	U42	CAN-CAM-CAO	-4.86	116.11	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	S	101	U42	CAQ-CAR-CAV	4.86	126.40	118.94
9	V	101	BCL	C3D-C2D-C1D	-4.85	99.21	105.83
9	H	101	BCL	C3C-C4C-CHD	-4.85	113.03	123.39
9	M	701	BCL	CMB-C2B-C3B	4.85	133.75	124.68
9	Q	102	BCL	C3C-C4C-CHD	-4.85	113.04	123.39
9	5	101	BCL	C3D-C2D-C1D	-4.84	99.23	105.83
11	J	102	U4Z	CBB-CBG-CBI	4.83	133.37	123.47
9	B	102	BCL	O2D-CGD-CBD	4.83	119.85	111.27
9	P	101	BCL	C1D-CHD-C4C	-4.83	114.98	126.62
9	W	102	BCL	O2D-CGD-CBD	4.82	119.83	111.27
9	K	101	BCL	CMD-C2D-C1D	4.82	133.20	124.71
9	Q	103	BCL	CMB-C2B-C3B	4.81	133.69	124.68
9	3	101	BCL	C3D-C2D-C1D	-4.81	99.27	105.83
9	0	101	BCL	O2D-CGD-CBD	4.81	119.82	111.27
9	3	101	BCL	CMB-C2B-C3B	4.79	133.65	124.68
9	2	101	BCL	C3D-C2D-C1D	-4.79	99.29	105.83
9	G	102	BCL	CMB-C2B-C3B	4.79	133.64	124.68
9	7	101	BCL	CMB-C2B-C3B	4.78	133.62	124.68
9	4	103	BCL	O2D-CGD-CBD	4.78	119.76	111.27
10	I	101	U42	CAU-CAR-CAV	-4.78	116.23	122.92
9	A	101	BCL	C1D-CHD-C4C	-4.77	115.11	126.62
9	2	102	BCL	CHD-C4C-NC	4.77	130.38	125.08
9	9	102	BCL	CMB-C2B-C3B	4.77	133.60	124.68
9	Q	102	BCL	CMD-C2D-C1D	4.77	133.11	124.71
9	D	101	BCL	CHD-C4C-NC	4.77	130.37	125.08
9	D	102	BCL	C3C-C4C-CHD	-4.76	113.22	123.39
9	O	102	BCL	C3D-C2D-C1D	-4.76	99.34	105.83
9	B	102	BCL	C3D-C2D-C1D	-4.75	99.35	105.83
9	5	101	BCL	CMB-C2B-C3B	4.75	133.56	124.68
9	R	101	BCL	C3D-C2D-C1D	-4.74	99.36	105.83
9	M	701	BCL	C1C-NC-C4C	-4.73	104.58	106.71
9	K	102	BCL	CHD-C4C-NC	4.73	130.33	125.08
9	N	101	BCL	CMB-C2B-C3B	4.73	133.53	124.68
9	B	103	BCL	CHD-C4C-NC	4.73	130.32	125.08
9	B	102	BCL	C3C-C4C-CHD	-4.72	113.30	123.39
10	I	104	U42	CAU-CAR-CAV	-4.72	116.31	122.92
9	L	1001	BCL	O2D-CGD-O1D	-4.72	114.61	123.84
9	O	103	BCL	C3C-C4C-CHD	-4.72	113.31	123.39
9	S	102	BCL	O2D-CGD-CBD	4.72	119.65	111.27
10	4	104	U42	CAU-CAR-CAV	-4.71	116.32	122.92
9	M	701	BCL	C3D-C2D-C1D	-4.71	99.40	105.83
9	0	101	BCL	CMD-C2D-C1D	4.71	133.02	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	8	103	BCL	C2D-C1D-ND	4.70	113.57	110.10
10	O	101	U42	CBB-CAV-CAR	4.70	134.02	127.31
9	D	101	BCL	C3C-C4C-CHD	-4.70	113.35	123.39
9	G	102	BCL	O2D-CGD-CBD	4.70	119.62	111.27
10	I	104	U42	CAO-CAP-CAQ	4.70	137.88	123.22
10	U	101	U42	CAJ-CAL-CAM	4.70	133.34	126.23
9	W	102	BCL	C3C-C4C-CHD	-4.70	113.36	123.39
9	I	102	BCL	CMD-C2D-C1D	4.69	132.98	124.71
9	Q	103	BCL	C3C-C4C-CHD	-4.69	113.37	123.39
9	S	102	BCL	C3C-C4C-CHD	-4.69	113.37	123.39
10	Q	101	U42	CBG-CBB-CAV	4.68	133.07	123.47
9	B	103	BCL	CMB-C2B-C3B	4.68	133.43	124.68
9	E	102	BCL	O2D-CGD-CBD	4.67	119.57	111.27
9	U	102	BCL	CMD-C2D-C1D	4.67	132.94	124.71
9	V	101	BCL	O2D-CGD-CBD	4.67	119.56	111.27
10	8	101	U42	CAN-CAM-CAL	-4.67	110.72	118.08
10	4	101	U42	CAN-CAM-CAO	-4.66	116.39	122.92
9	0	101	BCL	C3D-C2D-C1D	-4.66	99.47	105.83
9	8	102	BCL	CMB-C2B-C3B	4.65	133.38	124.68
9	H	101	BCL	CHD-C4C-NC	4.65	130.24	125.08
9	F	102	BCL	CMD-C2D-C1D	4.65	132.91	124.71
10	4	104	U42	CAQ-CAR-CAV	4.65	126.07	118.94
9	6	101	BCL	C3D-C2D-C1D	-4.64	99.50	105.83
9	R	101	BCL	CMB-C2B-C3B	4.64	133.36	124.68
9	S	103	BCL	C3C-C4C-CHD	-4.64	113.48	123.39
10	B	101	U42	CAX-CAT-CAS	4.64	123.48	112.33
9	2	101	BCL	C1D-ND-C4D	-4.63	103.05	106.33
10	B	101	U42	CBG-CBB-CAV	4.63	132.95	123.47
9	D	102	BCL	C3D-C2D-C1D	-4.62	99.53	105.83
9	U	103	BCL	C3C-C4C-CHD	-4.62	113.53	123.39
9	4	102	BCL	C3C-C4C-CHD	-4.62	113.53	123.39
10	B	101	U42	CBG-CBI-CBL	4.61	133.89	127.31
9	Q	102	BCL	C3D-C2D-C1D	-4.61	99.54	105.83
9	W	102	BCL	CMB-C2B-C3B	4.61	133.30	124.68
9	4	103	BCL	C4A-NA-C1A	4.60	108.78	106.71
10	B	101	U42	CAU-CAR-CAV	-4.60	116.48	122.92
9	I	102	BCL	C3C-C4C-CHD	-4.60	113.56	123.39
9	0	101	BCL	C1D-ND-C4D	-4.59	103.07	106.33
9	K	102	BCL	CMB-C2B-C3B	4.59	133.27	124.68
9	I	103	BCL	C3C-C4C-CHD	-4.59	113.58	123.39
9	8	102	BCL	C3C-C4C-CHD	-4.59	113.59	123.39
9	O	102	BCL	C1-C2-C3	-4.59	118.11	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	6	102	BCL	CHD-C4C-NC	4.59	130.17	125.08
11	C	401	U4Z	CBB-CBG-CBI	4.58	132.87	123.47
9	P	101	BCL	C1C-NC-C4C	-4.58	104.64	106.71
9	O	102	BCL	O2D-CGD-CBD	4.58	119.41	111.27
10	Q	101	U42	CBB-CAV-CAR	4.57	133.84	127.31
9	U	102	BCL	C3C-C4C-CHD	-4.57	113.62	123.39
10	U	101	U42	CAO-CAP-CAQ	4.55	137.40	123.22
9	Q	102	BCL	C1D-ND-C4D	-4.54	103.11	106.33
9	W	101	BCL	C3D-C2D-C1D	-4.54	99.63	105.83
9	F	102	BCL	C3C-C4C-CHD	-4.54	113.69	123.39
9	0	102	BCL	C1D-ND-C4D	-4.54	103.11	106.33
9	4	103	BCL	C3C-C4C-CHD	-4.54	113.70	123.39
9	S	102	BCL	C3D-C2D-C1D	-4.54	99.64	105.83
10	E	101	U42	CBG-CBB-CAV	4.54	132.76	123.47
11	N	102	U4Z	CBB-CBG-CBI	4.53	132.75	123.47
9	6	101	BCL	O2D-CGD-CBD	4.52	119.31	111.27
9	E	102	BCL	C3C-C4C-CHD	-4.51	113.75	123.39
9	Q	102	BCL	O2D-CGD-CBD	4.50	119.27	111.27
9	4	102	BCL	C3D-C2D-C1D	-4.49	99.70	105.83
9	L	1001	BCL	C2D-C1D-ND	4.49	113.41	110.10
9	4	102	BCL	CMD-C2D-C1D	4.49	132.62	124.71
9	L	1001	BCL	C3D-C2D-C1D	-4.48	99.71	105.83
9	O	103	BCL	CMB-C2B-C3B	4.48	133.06	124.68
9	S	102	BCL	C1D-ND-C4D	-4.48	103.15	106.33
10	E	101	U42	CBB-CAV-CAR	4.48	133.70	127.31
9	J	101	BCL	C3C-C4C-CHD	-4.47	113.84	123.39
9	I	103	BCL	C1D-ND-C4D	-4.47	103.16	106.33
9	0	102	BCL	CHD-C4C-NC	4.47	130.04	125.08
10	I	101	U42	CAX-CAT-CAS	4.47	123.08	112.33
10	8	101	U42	CBB-CBG-CBI	4.47	132.62	123.47
9	E	102	BCL	C1D-ND-C4D	-4.46	103.17	106.33
9	U	103	BCL	C1D-ND-C4D	-4.45	103.17	106.33
9	8	103	BCL	O2D-CGD-CBD	4.45	119.17	111.27
9	6	101	BCL	CMD-C2D-C1D	4.44	132.54	124.71
9	K	101	BCL	C3C-C4C-CHD	-4.44	113.91	123.39
9	S	103	BCL	CMB-C2B-C3B	4.43	132.97	124.68
10	0	103	U42	CBF-CBH-CBJ	4.43	125.74	118.94
9	U	102	BCL	C3D-C2D-C1D	-4.43	99.78	105.83
9	D	102	BCL	CMD-C2D-C1D	4.43	132.52	124.71
9	U	103	BCL	CMB-C2B-C3B	4.43	132.96	124.68
9	B	103	BCL	C3C-C4C-CHD	-4.43	113.93	123.39
9	I	102	BCL	C3D-C2D-C1D	-4.41	99.81	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	0	103	U42	CBN-CBL-CBI	4.41	125.71	118.94
9	9	102	BCL	C3C-C4C-CHD	-4.41	113.97	123.39
9	T	101	BCL	C3C-C4C-CHD	-4.41	113.98	123.39
9	1	101	BCL	C3C-C4C-CHD	-4.40	113.99	123.39
9	8	102	BCL	C3D-C2D-C1D	-4.40	99.82	105.83
10	O	101	U42	CAN-CAM-CAO	-4.39	116.77	122.92
9	8	103	BCL	CMB-C2B-C3B	4.39	132.88	124.68
9	6	102	BCL	O2D-CGD-CBD	4.38	119.06	111.27
9	R	101	BCL	C3C-C4C-CHD	-4.38	114.03	123.39
9	W	102	BCL	C1D-ND-C4D	-4.38	103.22	106.33
9	I	103	BCL	O2D-CGD-CBD	4.38	119.05	111.27
9	4	102	BCL	C1D-ND-C4D	-4.37	103.23	106.33
9	2	101	BCL	CHD-C4C-NC	4.37	129.93	125.08
10	U	101	U42	CBB-CAV-CAR	4.37	133.55	127.31
9	V	101	BCL	CMB-C2B-C3B	4.37	132.85	124.68
9	G	102	BCL	CHD-C4C-NC	4.36	129.92	125.08
9	Q	103	BCL	C1D-ND-C4D	-4.35	103.24	106.33
10	S	101	U42	CAU-CAR-CAV	-4.35	116.83	122.92
9	0	102	BCL	C3C-C4C-CHD	-4.35	114.11	123.39
9	Q	102	BCL	CHD-C4C-NC	4.34	129.90	125.08
10	S	101	U42	CBG-CBB-CAV	4.34	132.36	123.47
9	F	101	BCL	C3C-C4C-CHD	-4.34	114.12	123.39
11	H	102	U4Z	CBB-CBG-CBI	4.33	132.35	123.47
9	F	101	BCL	CHD-C4C-NC	4.33	129.89	125.08
9	A	101	BCL	C1C-NC-C4C	-4.33	104.76	106.71
18	L	1003	BPH	C4A-C3A-C2A	-4.33	98.72	102.84
9	0	102	BCL	CMB-C2B-C3B	4.32	132.77	124.68
9	6	102	BCL	C1D-ND-C4D	-4.32	103.26	106.33
9	M	701	BCL	CHD-C4C-NC	4.32	129.88	125.08
9	B	102	BCL	C1D-ND-C4D	-4.32	103.27	106.33
9	K	102	BCL	C3C-C4C-CHD	-4.31	114.18	123.39
9	6	101	BCL	CHD-C4C-NC	4.31	129.86	125.08
9	K	101	BCL	C3D-C2D-C1D	-4.31	99.95	105.83
11	F	103	U4Z	CBB-CBG-CBI	4.29	132.26	123.47
10	E	101	U42	CAN-CAM-CAO	-4.29	116.92	122.92
9	O	102	BCL	CMD-C2D-C1D	4.29	132.27	124.71
9	6	101	BCL	C1D-ND-C4D	-4.28	103.29	106.33
9	1	101	BCL	CMB-C2B-C3B	4.28	132.69	124.68
9	O	102	BCL	CHD-C4C-NC	4.28	129.83	125.08
9	F	102	BCL	C3D-C2D-C1D	-4.28	100.00	105.83
9	B	102	BCL	CHD-C4C-NC	4.28	129.82	125.08
9	2	102	BCL	C3C-C4C-CHD	-4.27	114.27	123.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	N	101	BCL	C3C-C4C-CHD	-4.26	114.28	123.39
9	L	1002	BCL	CHD-C4C-NC	4.26	129.81	125.08
9	2	101	BCL	C3C-C4C-CHD	-4.26	114.29	123.39
9	0	101	BCL	CHD-C4C-NC	4.26	129.80	125.08
9	3	101	BCL	C3C-C4C-CHD	-4.25	114.31	123.39
9	J	101	BCL	CHD-C4C-NC	4.25	129.79	125.08
10	U	104	U42	CAU-CAR-CAV	-4.24	116.98	122.92
10	U	101	U42	CBG-CBI-CBL	4.24	133.36	127.31
9	8	102	BCL	CMD-C2D-C1D	4.24	132.19	124.71
10	G	101	U42	CBB-CAV-CAR	4.24	133.36	127.31
9	S	102	BCL	CHD-C4C-NC	4.24	129.78	125.08
10	Q	101	U42	CBB-CBG-CBI	4.23	132.15	123.47
11	D	103	U4Z	CBB-CBG-CBI	4.23	132.15	123.47
10	0	103	U42	CAU-CAR-CAV	-4.23	117.00	122.92
9	L	1002	BCL	C3C-C4C-CHD	-4.23	114.35	123.39
9	B	103	BCL	C1D-ND-C4D	-4.22	103.33	106.33
10	O	101	U42	CAQ-CAR-CAV	4.21	125.41	118.94
9	O	103	BCL	O2D-CGD-CBD	4.21	118.75	111.27
9	Q	103	BCL	C1-C2-C3	-4.21	118.77	126.04
9	B	102	BCL	CMD-C2D-C1D	4.20	132.12	124.71
9	J	101	BCL	C1D-ND-C4D	-4.20	103.35	106.33
9	F	102	BCL	C1D-ND-C4D	-4.19	103.36	106.33
9	K	102	BCL	C1D-ND-C4D	-4.18	103.36	106.33
11	V	102	U4Z	CBB-CBG-CBI	4.18	132.03	123.47
10	I	104	U42	CBG-CBB-CAV	4.18	132.03	123.47
10	0	103	U42	CBB-CAV-CAR	4.17	133.27	127.31
9	U	102	BCL	C1D-ND-C4D	-4.17	103.37	106.33
9	D	102	BCL	CHD-C4C-NC	4.17	129.70	125.08
9	4	103	BCL	C1D-ND-C4D	-4.16	103.38	106.33
10	E	101	U42	CAL-CAM-CAO	4.15	125.31	118.94
9	V	101	BCL	C3C-C4C-CHD	-4.15	114.53	123.39
9	K	101	BCL	C1D-ND-C4D	-4.14	103.40	106.33
9	H	101	BCL	C1C-NC-C4C	-4.13	104.85	106.71
11	S	104	U4Z	CBB-CBG-CBI	4.13	131.93	123.47
9	1	101	BCL	C1D-ND-C4D	-4.12	103.41	106.33
9	M	701	BCL	C4A-NA-C1A	4.12	108.56	106.71
9	K	101	BCL	CHD-C4C-NC	4.12	129.65	125.08
9	9	102	BCL	CHD-C4C-NC	4.11	129.65	125.08
10	U	101	U42	CAQ-CAR-CAV	4.11	125.25	118.94
11	7	102	U4Z	CBB-CBG-CBI	4.10	131.88	123.47
9	8	103	BCL	CHD-C4C-NC	4.10	129.63	125.08
9	5	101	BCL	C3C-C4C-CHD	-4.10	114.64	123.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	W	101	BCL	C1D-ND-C4D	-4.09	103.43	106.33
9	6	102	BCL	C3C-C4C-CHD	-4.09	114.66	123.39
9	7	101	BCL	C3C-C4C-CHD	-4.09	114.66	123.39
9	D	101	BCL	C1D-ND-C4D	-4.09	103.43	106.33
9	S	103	BCL	C1D-ND-C4D	-4.08	103.44	106.33
9	9	102	BCL	C1D-ND-C4D	-4.07	103.44	106.33
10	8	101	U42	CAX-CAT-CAS	4.07	122.11	112.33
9	T	101	BCL	CMB-C2B-C3B	4.07	132.28	124.68
9	8	103	BCL	C3C-C4C-CHD	-4.06	114.71	123.39
9	T	101	BCL	CHD-C4C-NC	4.05	129.57	125.08
9	D	102	BCL	C1D-ND-C4D	-4.02	103.48	106.33
9	G	102	BCL	C3C-C4C-CHD	-4.01	114.81	123.39
9	T	101	BCL	C1D-ND-C4D	-4.01	103.48	106.33
9	V	101	BCL	C1D-ND-C4D	-4.01	103.49	106.33
9	R	101	BCL	CHD-C4C-NC	4.00	129.52	125.08
9	M	701	BCL	C3C-C4C-CHD	-4.00	114.84	123.39
10	U	101	U42	CAU-CAR-CAV	-4.00	117.32	122.92
10	S	101	U42	CAL-CAM-CAO	4.00	125.08	118.94
10	0	103	U42	CAQ-CAR-CAV	3.99	125.07	118.94
9	I	102	BCL	CHD-C4C-NC	3.99	129.51	125.08
9	L	1002	BCL	O2D-CGD-CBD	3.99	118.36	111.27
9	L	1002	BCL	C1D-ND-C4D	-3.99	103.50	106.33
9	H	101	BCL	C1D-ND-C4D	-3.99	103.50	106.33
11	V	102	U4Z	CAN-CAM-CAO	-3.99	117.34	122.92
19	L	1004	MQE	CAY-CAX-CBQ	3.98	122.76	118.50
9	8	102	BCL	C1D-ND-C4D	-3.98	103.51	106.33
9	P	101	BCL	CHD-C1D-ND	-3.97	120.81	124.45
9	S	102	BCL	CAA-CBA-CGA	-3.96	101.69	113.25
9	N	101	BCL	CHD-C4C-NC	3.95	129.47	125.08
11	C	401	U4Z	CAQ-CAR-CAV	3.95	125.01	118.94
11	A	102	U4Z	CBB-CBG-CBI	3.95	131.57	123.47
9	8	102	BCL	CHD-C4C-NC	3.95	129.46	125.08
9	3	101	BCL	CHD-C4C-NC	3.95	129.46	125.08
11	1	102	U4Z	CAN-CAM-CAO	-3.94	117.41	122.92
10	Q	101	U42	CAQ-CAR-CAV	3.94	124.98	118.94
9	5	101	BCL	CHD-C4C-NC	3.93	129.44	125.08
10	E	101	U42	CAQ-CAR-CAV	3.92	124.96	118.94
9	F	102	BCL	CHD-C4C-NC	3.92	129.43	125.08
10	U	104	U42	CAO-CAP-CAQ	3.92	135.44	123.22
9	L	1001	BCL	C1D-ND-C4D	-3.91	103.56	106.33
9	1	101	BCL	CHD-C4C-NC	3.91	129.42	125.08
11	1	102	U4Z	CBG-CBB-CAV	3.90	131.46	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	8	101	U42	CAQ-CAR-CAV	3.90	124.92	118.94
11	N	102	U4Z	CAN-CAM-CAO	-3.89	117.47	122.92
11	T	102	U4Z	CAN-CAM-CAO	-3.89	117.47	122.92
11	A	102	U4Z	CAN-CAM-CAO	-3.89	117.47	122.92
9	U	102	BCL	CHD-C4C-NC	3.89	129.40	125.08
10	0	103	U42	CAN-CAM-CAO	-3.88	117.48	122.92
9	3	101	BCL	C1D-ND-C4D	-3.88	103.58	106.33
11	P	102	U4Z	CBB-CBG-CBI	3.87	131.40	123.47
11	P	102	U4Z	CAN-CAM-CAO	-3.87	117.50	122.92
11	S	104	U4Z	CAN-CAM-CAO	-3.87	117.51	122.92
11	J	102	U4Z	CAN-CAM-CAO	-3.86	117.52	122.92
11	H	102	U4Z	CAN-CAM-CAO	-3.85	117.53	122.92
9	6	102	BCL	C1-C2-C3	-3.85	119.38	126.04
9	I	102	BCL	C1D-ND-C4D	-3.85	103.60	106.33
11	T	102	U4Z	CBB-CBG-CBI	3.84	131.35	123.47
10	0	103	U42	CBM-CBJ-CBH	3.84	132.79	127.31
11	D	103	U4Z	CAN-CAM-CAO	-3.83	117.55	122.92
9	F	101	BCL	C1D-ND-C4D	-3.83	103.61	106.33
11	5	102	U4Z	CAN-CAM-CAO	-3.83	117.56	122.92
9	L	1001	BCL	C3C-C4C-CHD	-3.82	115.23	123.39
10	0	103	U42	CBK-CBH-CBJ	-3.82	117.58	122.92
10	I	104	U42	CBG-CBI-CBL	3.81	132.75	127.31
10	8	101	U42	CBG-CBB-CAV	3.81	131.27	123.47
11	7	102	U4Z	CAN-CAM-CAO	-3.80	117.59	122.92
11	F	103	U4Z	CAN-CAM-CAO	-3.80	117.60	122.92
9	W	101	BCL	C3C-C4C-CHD	-3.80	115.28	123.39
11	3	102	U4Z	CAN-CAM-CAO	-3.79	117.61	122.92
9	A	101	BCL	C1D-ND-C4D	3.79	109.03	106.33
11	C	401	U4Z	CAU-CAR-CAV	-3.79	117.61	122.92
9	L	1001	BCL	CHD-C4C-NC	3.79	129.28	125.08
10	4	104	U42	CAX-CAT-CAS	3.79	121.43	112.33
10	B	101	U42	O14-C4-O1	3.78	121.70	109.65
9	7	101	BCL	C1D-ND-C4D	-3.78	103.65	106.33
10	B	101	U42	CAN-CAM-CAO	-3.78	117.63	122.92
9	1	101	BCL	O1D-CGD-CBD	-3.78	116.75	124.48
9	G	102	BCL	C1D-ND-C4D	-3.78	103.65	106.33
11	9	101	U4Z	CBB-CBG-CBI	3.77	131.20	123.47
11	C	401	U4Z	CAN-CAM-CAO	-3.77	117.64	122.92
9	9	102	BCL	O2D-CGD-O1D	-3.77	116.47	123.84
10	I	101	U42	CBB-CAV-CAR	3.77	132.69	127.31
9	N	101	BCL	C1D-ND-C4D	-3.77	103.66	106.33
10	B	101	U42	CAJ-CAL-CAM	3.76	131.92	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	4	101	U42	CAJ-CAL-CAM	3.76	131.92	126.23
10	S	101	U42	CBB-CAV-CAR	3.76	132.68	127.31
11	3	102	U4Z	CBB-CBG-CBI	3.75	131.16	123.47
20	L	1017	PEF	O2-C10-C11	3.74	119.57	111.50
14	C	405	HEC	CMC-C2C-C1C	-3.74	122.72	128.46
10	0	103	U42	CAB-CAD-CAH	-3.74	117.35	122.61
9	T	101	BCL	C1C-NC-C4C	-3.74	105.03	106.71
9	V	101	BCL	CHD-C4C-NC	3.73	129.22	125.08
9	7	101	BCL	CHD-C4C-NC	3.73	129.22	125.08
10	S	101	U42	CAP-CAO-CAM	3.72	132.63	127.31
9	R	101	BCL	C1C-NC-C4C	-3.71	105.04	106.71
11	9	101	U4Z	CAN-CAM-CAO	-3.71	117.73	122.92
9	4	102	BCL	CHD-C4C-NC	3.71	129.20	125.08
10	I	101	U42	CAO-CAP-CAQ	3.70	134.75	123.22
9	1	101	BCL	O2D-CGD-O1D	-3.70	116.61	123.84
10	U	104	U42	CAQ-CAR-CAV	3.67	124.58	118.94
14	C	404	HEC	CMC-C2C-C1C	-3.67	122.82	128.46
10	4	101	U42	CBK-CBH-CBJ	-3.67	117.78	122.92
9	O	102	BCL	C4-C3-C5	3.66	121.44	115.27
9	R	101	BCL	C1D-ND-C4D	-3.66	103.73	106.33
9	W	101	BCL	CHD-C4C-NC	3.66	129.14	125.08
9	I	102	BCL	O2D-CGD-O1D	-3.65	116.70	123.84
10	B	101	U42	CBB-CAV-CAR	3.65	132.52	127.31
9	2	102	BCL	CMB-C2B-C3B	3.64	131.50	124.68
9	4	103	BCL	CHC-C1C-NC	3.64	129.55	124.51
9	U	102	BCL	O2D-CGD-O1D	-3.63	116.73	123.84
9	D	102	BCL	O2D-CGD-O1D	-3.63	116.74	123.84
10	0	103	U42	CBG-CBI-CBL	3.63	132.49	127.31
9	L	1001	BCL	C3D-C4D-ND	3.62	116.09	110.24
9	5	101	BCL	C1D-ND-C4D	-3.62	103.77	106.33
10	I	104	U42	CAN-CAM-CAL	-3.61	112.39	118.08
11	C	401	U4Z	CAO-CAP-CAQ	3.60	134.45	123.22
10	S	101	U42	CAB-CAD-CAH	-3.60	117.55	122.61
9	M	701	BCL	C1D-ND-C4D	-3.59	103.78	106.33
9	V	101	BCL	C1C-NC-C4C	-3.59	105.09	106.71
10	8	101	U42	CAU-CAR-CAV	-3.58	117.90	122.92
9	I	102	BCL	O1D-CGD-CBD	-3.58	117.16	124.48
9	L	1001	BCL	O2A-CGA-CBA	3.58	123.14	111.91
10	G	101	U42	CAU-CAR-CAV	-3.58	117.91	122.92
9	S	103	BCL	C4-C3-C2	-3.57	114.51	123.68
11	5	102	U4Z	CBB-CBG-CBI	3.57	130.79	123.47
10	0	103	U42	CBJ-CBM-CBN	-3.57	112.07	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	S	101	U42	CAN-CAM-CAO	-3.56	117.94	122.92
10	4	104	U42	CBB-CAV-CAR	3.55	132.38	127.31
9	8	103	BCL	CAA-CBA-CGA	-3.55	102.88	113.25
10	U	101	U42	CBG-CBB-CAV	3.55	130.75	123.47
10	8	101	U42	CBB-CAV-CAR	3.55	132.38	127.31
9	D	101	BCL	O2D-CGD-O1D	-3.55	116.91	123.84
10	U	101	U42	CAN-CAM-CAL	-3.54	112.49	118.08
10	E	101	U42	CBA-CBE-CBF	-3.54	112.18	123.22
9	Q	103	BCL	O2D-CGD-O1D	-3.53	116.93	123.84
9	U	103	BCL	O2D-CGD-O1D	-3.53	116.95	123.84
9	D	101	BCL	C4A-NA-C1A	3.52	108.29	106.71
14	C	403	HEC	CMC-C2C-C1C	-3.52	123.05	128.46
10	Q	101	U42	CBG-CBI-CBL	3.52	132.34	127.31
9	2	102	BCL	O2D-CGD-O1D	-3.52	116.95	123.84
9	L	1001	BCL	CMB-C2B-C1B	-3.52	123.06	128.46
9	2	102	BCL	C1D-ND-C4D	-3.52	103.84	106.33
9	2	102	BCL	C1-C2-C3	-3.52	119.96	126.04
10	4	104	U42	CBG-CBI-CBL	3.52	132.33	127.31
10	S	101	U42	CAB-CAD-CAJ	3.51	125.72	115.78
9	B	103	BCL	C1-C2-C3	-3.51	119.97	126.04
9	3	101	BCL	O2D-CGD-O1D	-3.51	116.97	123.84
9	T	101	BCL	O2D-CGD-O1D	-3.51	116.98	123.84
9	O	103	BCL	C1C-NC-C4C	-3.50	105.13	106.71
9	S	103	BCL	O2D-CGD-O1D	-3.49	117.01	123.84
9	2	101	BCL	C3D-C4D-ND	3.48	115.86	110.24
10	Q	101	U42	CAB-CAD-CAH	-3.47	117.72	122.61
10	Q	101	U42	CBN-CBL-CBI	3.46	124.25	118.94
9	J	101	BCL	O2D-CGD-O1D	-3.46	117.08	123.84
11	5	102	U4Z	CBG-CBB-CAV	3.44	130.53	123.47
9	R	101	BCL	O2D-CGD-O1D	-3.44	117.12	123.84
9	H	101	BCL	O2D-CGD-O1D	-3.43	117.12	123.84
9	B	102	BCL	O2D-CGD-O1D	-3.43	117.13	123.84
9	S	103	BCL	CHC-C1C-NC	3.43	129.25	124.51
10	Q	101	U42	CAU-CAR-CAV	-3.42	118.13	122.92
9	6	102	BCL	C4-C3-C5	3.42	121.02	115.27
9	N	101	BCL	O2D-CGD-O1D	-3.42	117.16	123.84
9	O	103	BCL	C1D-ND-C4D	-3.41	103.91	106.33
9	I	102	BCL	C4-C3-C5	3.41	121.00	115.27
9	G	102	BCL	C1-C2-C3	-3.40	120.15	126.04
11	J	102	U4Z	CBO-CBL-CBI	-3.40	118.16	122.92
11	S	104	U4Z	CBO-CBL-CBI	-3.40	118.17	122.92
10	8	101	U42	CBM-CBJ-CBH	3.39	132.15	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	5	101	BCL	C1C-NC-C4C	-3.39	105.18	106.71
13	L	1015	BGL	O5-C5-C4	3.39	115.84	109.69
10	O	101	U42	O15-C7-C8	3.38	117.69	109.30
9	F	101	BCL	O2D-CGD-O1D	-3.38	117.23	123.84
18	L	1003	BPH	C1A-C2A-C3A	-3.38	99.63	102.84
9	0	101	BCL	C3D-C4D-ND	3.38	115.70	110.24
10	E	101	U42	CAC-CAB-CAD	3.37	115.67	110.48
10	G	101	U42	CAO-CAP-CAQ	3.36	133.72	123.22
9	0	102	BCL	C4A-NA-C1A	3.36	108.22	106.71
9	A	101	BCL	O2D-CGD-O1D	-3.36	117.28	123.84
11	3	102	U4Z	CBO-CBL-CBI	-3.36	118.22	122.92
9	O	102	BCL	O2D-CGD-O1D	-3.35	117.28	123.84
9	S	102	BCL	C3D-C4D-ND	3.35	115.66	110.24
10	S	101	U42	CBG-CBI-CBL	3.35	132.09	127.31
9	I	102	BCL	C1-C2-C3	-3.35	120.25	126.04
9	K	101	BCL	C3D-C4D-ND	3.34	115.65	110.24
9	F	102	BCL	C3D-C4D-ND	3.34	115.64	110.24
11	H	102	U4Z	CBO-CBL-CBI	-3.34	118.25	122.92
9	W	101	BCL	O2D-CGD-O1D	-3.33	117.32	123.84
9	0	101	BCL	C1-C2-C3	-3.33	120.28	126.04
9	Q	102	BCL	C3D-C4D-ND	3.33	115.62	110.24
11	1	102	U4Z	CAU-CAR-CAV	-3.33	118.26	122.92
9	W	102	BCL	CAA-CBA-CGA	-3.33	103.53	113.25
9	Q	102	BCL	C4-C3-C5	3.32	120.86	115.27
11	7	102	U4Z	CBO-CBL-CBI	-3.32	118.27	122.92
14	C	405	HEC	CMB-C2B-C1B	-3.32	123.37	128.46
10	B	101	U42	CBK-CBH-CBJ	-3.31	118.28	122.92
11	D	103	U4Z	CBO-CBL-CBI	-3.31	118.28	122.92
10	Q	101	U42	O14-C4-O1	3.31	120.20	109.65
11	A	102	U4Z	CBG-CBB-CAV	3.31	130.26	123.47
9	8	103	BCL	O2D-CGD-O1D	-3.31	117.37	123.84
11	V	102	U4Z	CBK-CBH-CBJ	-3.31	118.29	122.92
9	7	101	BCL	O2D-CGD-O1D	-3.31	117.38	123.84
9	O	102	BCL	C3D-C4D-ND	3.31	115.58	110.24
9	U	103	BCL	C4-C3-C2	-3.30	115.21	123.68
9	6	101	BCL	C1-C2-C3	-3.30	120.34	126.04
11	A	102	U4Z	CAB-CAD-CAH	-3.30	117.97	122.61
11	C	401	U4Z	CAB-CAD-CAJ	3.30	125.11	115.78
9	1	101	BCL	C1C-NC-C4C	-3.30	105.22	106.71
10	U	101	U42	CBK-CBH-CBJ	-3.30	118.31	122.92
9	K	102	BCL	C4-C3-C5	3.29	120.81	115.27
9	H	101	BCL	C4A-NA-C1A	3.29	108.19	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	M	701	BCL	O2D-CGD-O1D	-3.29	117.40	123.84
9	P	101	BCL	O2D-CGD-O1D	-3.29	117.40	123.84
11	N	102	U4Z	CBO-CBL-CBI	-3.29	118.32	122.92
10	4	104	U42	O17-C16-C8	3.29	115.39	108.43
9	8	102	BCL	C1-C2-C3	-3.28	120.37	126.04
19	M	704	MQE	CAY-CAX-CBQ	-3.28	114.99	118.50
10	4	101	U42	O17-C16-C8	-3.28	101.48	108.43
9	F	102	BCL	C1-C2-C3	-3.28	120.38	126.04
11	9	101	U4Z	CBO-CBL-CBI	-3.27	118.34	122.92
9	L	1002	BCL	CED-O2D-CGD	3.27	123.33	115.94
11	T	102	U4Z	CBO-CBL-CBI	-3.27	118.35	122.92
9	B	102	BCL	C3D-C4D-ND	3.27	115.52	110.24
9	9	102	BCL	C1C-NC-C4C	-3.26	105.24	106.71
11	A	102	U4Z	CBO-CBL-CBI	-3.26	118.35	122.92
9	N	101	BCL	C1C-NC-C4C	-3.26	105.24	106.71
9	W	101	BCL	C3D-C4D-ND	3.26	115.51	110.24
11	F	103	U4Z	CBO-CBL-CBI	-3.26	118.36	122.92
9	E	102	BCL	C3D-C4D-ND	3.26	115.51	110.24
9	G	102	BCL	O2D-CGD-O1D	-3.26	117.47	123.84
11	7	102	U4Z	CAB-CAD-CAH	-3.26	118.03	122.61
11	V	102	U4Z	CBG-CBB-CAV	3.25	130.14	123.47
9	4	102	BCL	C4-C3-C5	3.25	120.74	115.27
11	3	102	U4Z	CBK-CBH-CBJ	-3.25	118.38	122.92
9	4	102	BCL	C3D-C4D-ND	3.25	115.49	110.24
9	4	102	BCL	C1-C2-C3	-3.24	120.44	126.04
9	K	102	BCL	C1C-NC-C4C	-3.23	105.25	106.71
9	U	102	BCL	C3D-C4D-ND	3.23	115.46	110.24
10	4	101	U42	CAQ-CAR-CAV	3.23	123.89	118.94
11	V	102	U4Z	CBO-CBL-CBI	-3.23	118.41	122.92
9	M	701	BCL	CED-O2D-CGD	3.22	123.23	115.94
11	S	104	U4Z	CBG-CBB-CAV	3.22	130.08	123.47
18	L	1003	BPH	O2D-CGD-O1D	-3.22	117.55	123.84
11	C	401	U4Z	CBK-CBH-CBJ	-3.22	118.42	122.92
10	U	104	U42	CBG-CBB-CAV	3.21	130.06	123.47
10	4	101	U42	CAL-CAM-CAO	3.21	123.87	118.94
11	9	101	U4Z	CBG-CBB-CAV	3.21	130.05	123.47
11	3	102	U4Z	CBG-CBB-CAV	3.21	130.05	123.47
18	L	1003	BPH	CMC-C2C-C3C	3.21	126.91	113.99
10	S	101	U42	CBM-CBJ-CBH	3.21	131.88	127.31
11	P	102	U4Z	CBO-CBL-CBI	-3.20	118.43	122.92
14	C	402	HEC	CMC-C2C-C1C	-3.20	123.54	128.46
11	7	102	U4Z	CAI-CAH-CAD	-3.20	118.09	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	V	101	BCL	C3D-C4D-ND	3.20	115.41	110.24
9	8	102	BCL	C3D-C4D-ND	3.20	115.41	110.24
9	K	102	BCL	C1-C2-C3	-3.19	120.52	126.04
10	4	104	U42	CBJ-CBM-CBN	3.19	133.18	123.22
9	5	101	BCL	O2D-CGD-O1D	-3.19	117.60	123.84
11	9	101	U4Z	CAB-CAD-CAH	-3.19	118.12	122.61
9	0	102	BCL	CHC-C1C-NC	3.18	128.91	124.51
11	5	102	U4Z	CBO-CBL-CBI	-3.18	118.47	122.92
11	A	102	U4Z	CBK-CBH-CBJ	-3.18	118.47	122.92
9	I	103	BCL	CAA-CBA-CGA	-3.18	103.97	113.25
9	A	101	BCL	C4-C3-C5	3.17	120.61	115.27
9	D	102	BCL	C3D-C4D-ND	3.17	115.37	110.24
11	P	102	U4Z	CBK-CBH-CBJ	-3.17	118.48	122.92
10	8	101	U42	CBN-CBL-CBI	3.17	123.81	118.94
9	S	103	BCL	CAA-CBA-CGA	-3.17	103.99	113.25
10	U	101	U42	CBN-CBL-CBI	3.17	123.80	118.94
9	F	102	BCL	O2D-CGD-O1D	-3.16	117.66	123.84
11	T	102	U4Z	CBK-CBH-CBJ	-3.15	118.51	122.92
11	5	102	U4Z	CBK-CBH-CBJ	-3.15	118.51	122.92
10	E	101	U42	CAB-CAD-CAH	-3.15	118.18	122.61
9	K	101	BCL	O2D-CGD-O1D	-3.15	117.68	123.84
10	0	103	U42	CAX-CAT-CAS	3.15	119.90	112.33
9	6	101	BCL	C3D-C4D-ND	3.15	115.33	110.24
9	M	701	BCL	C3D-C4D-ND	3.14	115.32	110.24
9	E	102	BCL	C1-C2-C3	-3.14	120.61	126.04
9	S	102	BCL	C4D-CHA-C1A	-3.14	117.42	121.25
9	O	103	BCL	CHC-C1C-NC	3.14	128.86	124.51
9	A	101	BCL	CMC-C2C-C3C	3.14	126.50	113.83
11	5	102	U4Z	CAU-CAR-CAV	-3.14	118.52	122.92
11	J	102	U4Z	CBN-CBL-CBI	3.14	123.76	118.94
11	S	104	U4Z	CAU-CAR-CAV	-3.14	118.53	122.92
11	S	104	U4Z	CBK-CBH-CBJ	-3.13	118.53	122.92
10	4	104	U42	CAO-CAP-CAQ	3.13	132.99	123.22
9	2	102	BCL	C3D-C4D-ND	3.13	115.30	110.24
9	S	102	BCL	O2D-CGD-O1D	-3.13	117.72	123.84
9	L	1002	BCL	O2A-CGA-CBA	3.13	121.73	111.91
9	8	103	BCL	C1D-ND-C4D	-3.13	104.11	106.33
11	V	102	U4Z	CAU-CAR-CAV	-3.13	118.54	122.92
9	8	102	BCL	O2D-CGD-O1D	-3.12	117.74	123.84
10	Q	101	U42	CBM-CBJ-CBH	3.12	131.76	127.31
11	F	103	U4Z	CBK-CBH-CBJ	-3.12	118.55	122.92
11	1	102	U4Z	CBB-CBG-CBI	3.11	129.85	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	P	101	BCL	C3C-C4C-CHD	-3.11	116.74	123.39
9	8	102	BCL	C4-C3-C5	3.11	120.51	115.27
9	E	102	BCL	O2D-CGD-O1D	-3.11	117.75	123.84
11	1	102	U4Z	CAI-CAH-CAD	-3.11	118.21	122.73
9	4	103	BCL	O2A-CGA-CBA	3.11	121.67	111.91
9	U	103	BCL	C3D-C4D-ND	3.11	115.27	110.24
11	T	102	U4Z	CBG-CBB-CAV	3.11	129.84	123.47
10	B	101	U42	CAP-CAO-CAM	3.11	131.74	127.31
10	I	104	U42	CBB-CAV-CAR	3.10	131.73	127.31
10	U	101	U42	C6-C7-C8	-3.09	104.72	110.24
9	0	101	BCL	O2D-CGD-O1D	-3.09	117.80	123.84
9	4	103	BCL	O2D-CGD-O1D	-3.09	117.80	123.84
11	9	101	U4Z	CBK-CBH-CBJ	-3.09	118.60	122.92
9	B	102	BCL	C4-C3-C5	3.08	120.45	115.27
10	E	101	U42	CBN-CBL-CBI	3.07	123.66	118.94
11	A	102	U4Z	CAI-CAH-CAD	-3.07	118.27	122.73
9	2	101	BCL	O2A-CGA-CBA	3.07	121.54	111.91
11	F	103	U4Z	CBG-CBB-CAV	3.07	129.76	123.47
9	P	101	BCL	C1-C2-C3	-3.07	120.74	126.04
10	8	101	U42	CBK-CBH-CBJ	-3.06	118.63	122.92
9	F	102	BCL	C4-C3-C5	3.06	120.42	115.27
9	I	102	BCL	C3D-C4D-ND	3.06	115.19	110.24
9	S	102	BCL	C4-C3-C5	3.06	120.42	115.27
11	T	102	U4Z	CAU-CAR-CAV	-3.05	118.64	122.92
11	9	101	U4Z	CAI-CAH-CAD	-3.05	118.30	122.73
9	M	701	BCL	C1-C2-C3	-3.05	120.76	126.04
9	O	103	BCL	C1D-CHD-C4C	-3.05	119.26	126.62
9	W	102	BCL	C4-C3-C5	3.05	120.40	115.27
11	3	102	U4Z	CAU-CAR-CAV	-3.05	118.65	122.92
9	K	102	BCL	C3D-C4D-ND	3.05	115.16	110.24
9	Q	102	BCL	C1-C2-C3	-3.04	120.78	126.04
9	O	102	BCL	C4D-CHA-C1A	-3.04	117.55	121.25
10	O	101	U42	CAP-CAO-CAM	3.04	131.65	127.31
9	I	103	BCL	O2D-CGD-O1D	-3.04	117.90	123.84
11	J	102	U4Z	CBK-CBH-CBJ	-3.04	118.67	122.92
9	4	102	BCL	C4D-CHA-C1A	-3.03	117.56	121.25
9	B	102	BCL	CMB-C2B-C1B	-3.03	123.80	128.46
10	I	104	U42	CBN-CBL-CBI	3.03	123.59	118.94
10	E	101	U42	CAB-CAD-CAJ	3.03	124.35	115.78
9	G	102	BCL	O2A-CGA-CBA	3.03	121.42	111.91
11	7	102	U4Z	CBK-CBH-CBJ	-3.03	118.68	122.92
9	J	101	BCL	C3D-C4D-ND	3.02	115.13	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	1	102	U4Z	CBO-CBL-CBI	-3.02	118.69	122.92
11	D	103	U4Z	CAU-CAR-CAV	-3.02	118.69	122.92
11	D	103	U4Z	CBK-CBH-CBJ	-3.02	118.69	122.92
11	F	103	U4Z	CBN-CBL-CBI	3.02	123.57	118.94
9	4	102	BCL	O2D-CGD-O1D	-3.02	117.94	123.84
9	O	103	BCL	C4-C3-C2	-3.02	115.94	123.68
10	E	101	U42	CAU-CAR-CAV	-3.01	118.70	122.92
11	1	102	U4Z	CAQ-CAR-CAV	3.01	123.56	118.94
10	4	101	U42	CBN-CBL-CBI	3.01	123.56	118.94
9	W	102	BCL	C4-C3-C2	-3.01	115.96	123.68
10	4	101	U42	CBB-CAV-CAR	3.00	131.60	127.31
9	A	101	BCL	CBC-CAC-C3C	-3.00	106.78	113.47
9	P	101	BCL	CMC-C2C-C3C	3.00	125.94	113.83
10	U	104	U42	CAJ-CAD-CAH	3.00	128.72	121.46
11	N	102	U4Z	CBN-CBL-CBI	3.00	123.54	118.94
10	4	101	U42	CBG-CBB-CAV	3.00	129.61	123.47
9	4	103	BCL	C1C-NC-C4C	-3.00	105.36	106.71
9	B	103	BCL	O2D-CGD-O1D	-3.00	117.98	123.84
9	3	101	BCL	C3D-C4D-ND	2.99	115.08	110.24
9	I	103	BCL	C3D-C4D-ND	2.99	115.08	110.24
11	V	102	U4Z	CAE-CAI-CAH	2.99	119.42	114.08
14	C	403	HEC	CMB-C2B-C1B	-2.99	123.87	128.46
11	J	102	U4Z	CAU-CAR-CAV	-2.99	118.73	122.92
9	S	103	BCL	O2A-CGA-CBA	2.99	121.29	111.91
9	0	102	BCL	C3D-C4D-ND	2.99	115.07	110.24
10	I	104	U42	CBM-CBJ-CBH	2.99	131.57	127.31
11	1	102	U4Z	CBK-CBH-CBJ	-2.99	118.74	122.92
9	B	103	BCL	C3D-C4D-ND	2.99	115.07	110.24
9	A	101	BCL	CMB-C2B-C3B	2.98	130.25	124.68
9	2	101	BCL	C4-C3-C5	2.98	120.28	115.27
11	N	102	U4Z	CAU-CAR-CAV	-2.98	118.75	122.92
9	6	102	BCL	C3D-C4D-ND	2.97	115.05	110.24
9	4	103	BCL	C4-C3-C5	2.97	120.28	115.27
9	D	102	BCL	C4-C3-C5	2.97	120.27	115.27
9	G	102	BCL	C4-C3-C5	2.97	120.27	115.27
9	W	102	BCL	O2D-CGD-O1D	-2.97	118.03	123.84
9	W	101	BCL	C4D-CHA-C1A	-2.97	117.64	121.25
11	9	101	U4Z	CAU-CAR-CAV	-2.97	118.77	122.92
11	N	102	U4Z	CBK-CBH-CBJ	-2.97	118.77	122.92
9	N	101	BCL	C3D-C4D-ND	2.97	115.03	110.24
11	H	102	U4Z	CBN-CBL-CBI	2.97	123.49	118.94
10	0	103	U42	CAP-CAQ-CAR	2.96	134.75	126.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	F	102	BCL	C4D-CHA-C1A	-2.96	117.64	121.25
9	P	101	BCL	CBC-CAC-C3C	-2.96	106.87	113.47
10	8	101	U42	CAO-CAP-CAQ	2.96	132.46	123.22
9	Q	103	BCL	C3D-C4D-ND	2.96	115.03	110.24
10	S	101	U42	CBN-CBL-CBI	2.96	123.48	118.94
11	T	102	U4Z	CAI-CAH-CAD	-2.96	118.44	122.73
10	0	103	U42	CBM-CBN-CBL	2.96	134.73	126.42
11	F	103	U4Z	CAE-CAI-CAH	2.96	119.36	114.08
11	S	104	U4Z	CBN-CBL-CBI	2.96	123.48	118.94
9	9	102	BCL	C3D-C4D-ND	2.96	115.02	110.24
11	A	102	U4Z	CAU-CAR-CAV	-2.96	118.78	122.92
11	D	103	U4Z	CAI-CAH-CAD	-2.96	118.44	122.73
9	W	102	BCL	C3D-C4D-ND	2.95	115.02	110.24
10	B	101	U42	CAC-CAB-CAD	2.95	115.03	110.48
11	P	102	U4Z	CBG-CBB-CAV	2.95	129.52	123.47
14	C	404	HEC	CMB-C2B-C1B	-2.95	123.93	128.46
11	3	102	U4Z	CBN-CBL-CBI	2.95	123.47	118.94
9	7	101	BCL	C3D-C4D-ND	2.95	115.01	110.24
11	H	102	U4Z	CAI-CAH-CAD	-2.95	118.45	122.73
11	C	401	U4Z	CAN-CAM-CAL	2.95	122.73	118.08
9	F	101	BCL	C3D-C4D-ND	2.95	115.01	110.24
11	7	102	U4Z	CBN-CBL-CBI	2.95	123.47	118.94
10	8	101	U42	CAC-CAB-CAD	2.95	115.02	110.48
9	B	103	BCL	CHC-C1C-NC	2.95	128.59	124.51
11	H	102	U4Z	CBK-CBH-CBJ	-2.94	118.80	122.92
10	G	101	U42	CAQ-CAR-CAV	2.94	123.45	118.94
10	Q	101	U42	CAX-CAT-CAS	2.94	119.39	112.33
11	7	102	U4Z	CAU-CAR-CAV	-2.94	118.81	122.92
9	S	102	BCL	CMB-C2B-C1B	-2.94	123.95	128.46
9	W	102	BCL	C1C-NC-C4C	-2.94	105.39	106.71
9	G	102	BCL	CAA-C2A-C3A	-2.93	104.74	112.78
10	0	103	U42	O17-C16-C8	2.93	114.65	108.43
11	P	102	U4Z	CAU-CAR-CAV	-2.93	118.81	122.92
11	3	102	U4Z	CAI-CAH-CAD	-2.93	118.47	122.73
11	F	103	U4Z	CAU-CAR-CAV	-2.93	118.82	122.92
9	D	102	BCL	CMB-C2B-C1B	-2.93	123.96	128.46
9	Q	102	BCL	C4D-CHA-C1A	-2.93	117.68	121.25
10	8	101	U42	O14-C4-O1	2.92	118.97	109.65
10	U	104	U42	C4-O14-C8	2.92	119.42	113.69
9	D	101	BCL	C3D-C4D-ND	2.92	114.96	110.24
11	5	102	U4Z	CAI-CAH-CAD	-2.92	118.49	122.73
9	6	101	BCL	O2D-CGD-O1D	-2.92	118.13	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	4	103	BCL	C3D-C4D-ND	2.92	114.95	110.24
11	J	102	U4Z	CAI-CAH-CAD	-2.91	118.50	122.73
11	P	102	U4Z	CAI-CAH-CAD	-2.91	118.50	122.73
9	P	101	BCL	C1D-ND-C4D	2.91	108.41	106.33
9	R	101	BCL	C3D-C4D-ND	2.91	114.95	110.24
9	W	101	BCL	C1D-CHD-C4C	-2.91	119.60	126.62
9	R	101	BCL	O2A-CGA-CBA	2.91	121.04	111.91
10	U	104	U42	CBM-CBJ-CBH	2.91	131.46	127.31
10	4	104	U42	CAC-CAB-CAD	2.91	114.95	110.48
9	D	101	BCL	C1C-NC-C4C	-2.90	105.40	106.71
9	G	102	BCL	C3D-C4D-ND	2.90	114.93	110.24
9	T	101	BCL	C3D-C4D-ND	2.90	114.93	110.24
9	J	101	BCL	C1-C2-C3	-2.90	121.02	126.04
11	A	102	U4Z	CBN-CBL-CBI	2.90	123.39	118.94
10	Q	101	U42	C7-C6-C5	-2.90	105.76	110.82
10	I	101	U42	CBK-CBH-CBJ	-2.90	118.86	122.92
9	1	101	BCL	C3D-C4D-ND	2.90	114.92	110.24
11	H	102	U4Z	CAU-CAR-CAV	-2.90	118.86	122.92
9	2	101	BCL	CHC-C1C-NC	2.90	128.52	124.51
9	S	103	BCL	C3D-C4D-ND	2.89	114.92	110.24
9	5	101	BCL	C3D-C4D-ND	2.89	114.92	110.24
9	O	103	BCL	O2D-CGD-O1D	-2.89	118.18	123.84
9	6	101	BCL	C4D-CHA-C1A	-2.89	117.73	121.25
11	T	102	U4Z	CBN-CBL-CBI	2.89	123.38	118.94
20	L	1017	PEF	O3-C30-C31	2.88	120.94	111.91
9	N	101	BCL	O2A-CGA-CBA	2.88	120.93	111.91
9	S	102	BCL	O2A-CGA-CBA	2.88	120.93	111.91
9	U	103	BCL	O2A-CGA-CBA	2.88	120.93	111.91
10	Q	101	U42	CBC-CAY-CAX	2.87	116.34	111.14
9	H	101	BCL	C3D-C4D-ND	2.87	114.88	110.24
9	B	102	BCL	C1-C2-C3	-2.87	121.09	126.04
9	0	102	BCL	C4-C3-C5	2.87	120.09	115.27
9	I	102	BCL	C4D-CHA-C1A	-2.87	117.76	121.25
9	U	102	BCL	O2A-CGA-CBA	2.86	120.89	111.91
9	L	1002	BCL	C3D-C4D-ND	2.86	114.87	110.24
9	8	102	BCL	C4D-CHA-C1A	-2.86	117.77	121.25
9	I	103	BCL	CHC-C1C-NC	2.86	128.46	124.51
9	K	102	BCL	O2D-CGD-O1D	-2.85	118.26	123.84
11	V	102	U4Z	CBF-CBH-CBJ	2.85	123.32	118.94
9	0	101	BCL	C4D-CHA-C1A	-2.85	117.78	121.25
10	I	104	U42	C6-C7-C8	2.85	115.32	110.24
9	8	103	BCL	CHC-C1C-NC	2.85	128.45	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	S	104	U4Z	CAI-CAH-CAD	-2.85	118.59	122.73
9	U	103	BCL	CHB-C4A-NA	2.85	128.45	124.51
10	U	101	U42	CBE-CBF-CBH	2.85	134.42	126.42
9	K	101	BCL	C4-C3-C5	2.84	120.06	115.27
11	9	101	U4Z	CBN-CBL-CBI	2.84	123.30	118.94
11	D	103	U4Z	CBN-CBL-CBI	2.84	123.30	118.94
9	N	101	BCL	C4-C3-C5	2.84	120.05	115.27
10	4	104	U42	CAP-CAQ-CAR	2.84	134.38	126.42
9	0	101	BCL	C4-C3-C5	2.84	120.04	115.27
9	T	101	BCL	C4A-NA-C1A	2.83	107.98	106.71
9	6	101	BCL	CMB-C2B-C1B	-2.83	124.11	128.46
9	G	102	BCL	CHC-C1C-NC	2.83	128.43	124.51
9	K	101	BCL	C1-C2-C3	-2.83	121.15	126.04
10	4	101	U42	CBF-CBH-CBJ	2.83	123.28	118.94
11	C	401	U4Z	CBF-CBH-CBJ	2.83	123.28	118.94
9	7	101	BCL	C4-C3-C5	2.83	120.03	115.27
10	U	104	U42	CAC-CAB-CAD	2.82	114.83	110.48
10	I	104	U42	O14-C8-C7	2.82	114.82	109.69
9	2	102	BCL	CAA-CBA-CGA	-2.82	105.00	113.25
11	N	102	U4Z	CAE-CAI-CAH	2.82	119.11	114.08
9	4	103	BCL	C1D-CHD-C4C	-2.82	119.82	126.62
10	O	101	U42	CAB-CAD-CAH	-2.82	118.65	122.61
10	U	104	U42	CBN-CBL-CBI	2.81	123.26	118.94
10	Q	101	U42	O17-C16-C8	2.81	114.39	108.43
9	K	102	BCL	CAA-C2A-C3A	-2.81	105.08	112.78
9	K	101	BCL	CMB-C2B-C1B	-2.81	124.14	128.46
19	L	1004	MQE	CBL-CAY-CAX	2.81	119.62	112.05
10	4	101	U42	CAX-CAT-CAS	2.81	119.08	112.33
9	P	101	BCL	CMB-C2B-C1B	-2.81	124.15	128.46
9	Q	103	BCL	C1-O2A-CGA	2.80	123.80	116.44
10	I	101	U42	CBN-CBL-CBI	2.80	123.24	118.94
9	L	1002	BCL	C4-C3-C2	-2.80	116.49	123.68
11	V	102	U4Z	CBN-CBL-CBI	2.80	123.24	118.94
11	3	102	U4Z	CBF-CBH-CBJ	2.80	123.23	118.94
9	Q	102	BCL	CMB-C2B-C1B	-2.80	124.17	128.46
9	T	101	BCL	C4-C3-C5	2.80	119.97	115.27
11	3	102	U4Z	CAE-CAI-CAH	2.79	119.06	114.08
10	U	104	U42	CAN-CAM-CAL	-2.79	113.68	118.08
9	Q	102	BCL	O2D-CGD-O1D	-2.78	118.39	123.84
9	A	101	BCL	O2A-CGA-CBA	2.78	120.64	111.91
11	V	102	U4Z	CAI-CAH-CAD	-2.78	118.69	122.73
9	B	103	BCL	C1D-CHD-C4C	-2.78	119.92	126.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	T	101	BCL	CHB-C4A-NA	2.78	128.35	124.51
11	7	102	U4Z	CBG-CBB-CAV	2.78	129.16	123.47
11	N	102	U4Z	CAI-CAH-CAD	-2.78	118.70	122.73
9	1	101	BCL	C1-C2-C3	-2.77	121.25	126.04
9	2	101	BCL	O2D-CGD-O1D	-2.77	118.42	123.84
9	W	101	BCL	C1-C2-C3	-2.77	121.25	126.04
9	T	101	BCL	O2A-CGA-CBA	2.77	120.60	111.91
9	9	102	BCL	C4-C3-C5	2.77	119.93	115.27
9	R	101	BCL	C4-C3-C5	2.77	119.93	115.27
9	M	701	BCL	O1D-CGD-CBD	-2.77	118.82	124.48
9	E	102	BCL	CAA-CBA-CGA	-2.77	105.16	113.25
19	M	704	MQE	CAY-CBL-CBB	2.77	131.40	126.79
9	6	102	BCL	CMB-C2B-C1B	-2.77	124.21	128.46
9	6	102	BCL	CHB-C4A-NA	2.77	128.34	124.51
10	0	103	U42	CAC-CAB-CAD	2.77	114.74	110.48
11	S	104	U4Z	CAE-CAI-CAH	2.76	119.01	114.08
10	I	101	U42	CAC-CAB-CAD	2.76	114.74	110.48
9	D	101	BCL	C4-C3-C5	2.76	119.92	115.27
9	U	103	BCL	C4-C3-C5	2.76	119.91	115.27
9	Q	103	BCL	O2A-CGA-CBA	2.76	120.57	111.91
9	R	101	BCL	C1-C2-C3	-2.76	121.27	126.04
9	U	102	BCL	CMB-C2B-C1B	-2.76	124.23	128.46
9	0	102	BCL	C1D-CHD-C4C	-2.76	119.97	126.62
9	3	101	BCL	C1C-NC-C4C	-2.76	105.47	106.71
11	5	102	U4Z	CBN-CBL-CBI	2.76	123.17	118.94
9	4	102	BCL	CHB-C4A-NA	2.75	128.32	124.51
9	V	101	BCL	O2A-CGA-CBA	2.75	120.54	111.91
9	K	101	BCL	C4D-CHA-C1A	-2.75	117.90	121.25
9	8	102	BCL	CHB-C4A-NA	2.75	128.31	124.51
10	B	101	U42	CAB-CAD-CAH	-2.75	118.74	122.61
11	F	103	U4Z	CAI-CAH-CAD	-2.75	118.74	122.73
10	E	101	U42	CAP-CAO-CAM	2.75	131.23	127.31
9	6	101	BCL	C4-C3-C5	2.75	119.89	115.27
10	S	101	U42	CAO-CAP-CAQ	2.74	131.78	123.22
11	V	102	U4Z	CAQ-CAR-CAV	2.74	123.15	118.94
9	G	102	BCL	C1D-CHD-C4C	-2.74	120.00	126.62
11	P	102	U4Z	CBN-CBL-CBI	2.74	123.15	118.94
9	U	102	BCL	C4D-CHA-C1A	-2.74	117.91	121.25
10	0	103	U42	CBO-CBL-CBI	-2.74	119.08	122.92
11	N	102	U4Z	CBG-CBB-CAV	2.74	129.09	123.47
10	I	101	U42	CAJ-CAD-CAH	2.74	128.09	121.46
9	Q	103	BCL	CHC-C1C-NC	2.74	128.29	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	S	104	U4Z	CAQ-CAR-CAV	2.74	123.14	118.94
9	O	102	BCL	C1C-NC-C4C	-2.73	105.48	106.71
9	6	101	BCL	CHB-C4A-NA	2.72	128.28	124.51
9	7	101	BCL	C1C-NC-C4C	-2.72	105.48	106.71
9	W	102	BCL	O2A-CGA-CBA	2.72	120.45	111.91
11	H	102	U4Z	CBG-CBB-CAV	2.72	129.04	123.47
9	K	102	BCL	C1-O2A-CGA	2.72	123.58	116.44
9	W	101	BCL	C4-C3-C5	2.72	119.84	115.27
10	G	101	U42	CBB-CBG-CBI	2.71	129.03	123.47
9	P	101	BCL	C4-C3-C5	2.71	119.83	115.27
9	H	101	BCL	CHC-C1C-NC	2.71	128.26	124.51
11	A	102	U4Z	CBF-CBH-CBJ	2.71	123.10	118.94
9	8	103	BCL	C3D-C4D-ND	2.71	114.62	110.24
9	M	701	BCL	C1D-CHD-C4C	-2.71	120.08	126.62
11	J	102	U4Z	CAE-CAI-CAH	2.71	118.91	114.08
11	D	103	U4Z	CBG-CBB-CAV	2.71	129.02	123.47
11	5	102	U4Z	CAE-CAI-CAH	2.70	118.91	114.08
9	1	101	BCL	CHB-C4A-NA	2.70	128.25	124.51
9	2	102	BCL	C1C-NC-C4C	-2.70	105.49	106.71
9	F	102	BCL	CMB-C2B-C1B	-2.70	124.31	128.46
10	8	101	U42	C21-C20-C19	-2.70	103.49	113.19
9	D	101	BCL	CHC-C1C-NC	2.70	128.24	124.51
9	8	103	BCL	C1-C2-C3	-2.70	121.38	126.04
9	W	102	BCL	CHB-C4A-NA	2.70	128.24	124.51
11	H	102	U4Z	CAE-CAI-CAH	2.69	118.89	114.08
10	0	103	U42	CAN-CAM-CAL	-2.69	113.83	118.08
9	L	1002	BCL	C1-O2A-CGA	2.69	123.50	116.44
9	S	103	BCL	C1D-CHD-C4C	-2.69	120.14	126.62
11	5	102	U4Z	CBF-CBH-CBJ	2.68	123.06	118.94
11	T	102	U4Z	CAB-CAD-CAH	-2.68	118.83	122.61
9	V	101	BCL	CHC-C1C-NC	2.68	128.22	124.51
9	8	103	BCL	C1C-NC-C4C	-2.68	105.50	106.71
9	G	102	BCL	C1C-NC-C4C	-2.68	105.50	106.71
9	4	102	BCL	CMB-C2B-C1B	-2.68	124.35	128.46
9	W	101	BCL	CHB-C4A-NA	2.67	128.21	124.51
9	W	101	BCL	CMB-C2B-C1B	-2.67	124.35	128.46
9	8	102	BCL	C1D-CHD-C4C	-2.67	120.17	126.62
9	Q	102	BCL	CHB-C4A-NA	2.67	128.20	124.51
11	P	102	U4Z	CAE-CAI-CAH	2.67	118.84	114.08
11	C	401	U4Z	CAB-CAD-CAH	-2.67	118.86	122.61
9	D	101	BCL	CBA-CAA-C2A	-2.67	105.99	113.86
11	T	102	U4Z	CAE-CAI-CAH	2.67	118.84	114.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	M	702	BPH	C1A-C2A-C3A	-2.67	100.30	102.84
11	P	102	U4Z	CBF-CBH-CBJ	2.66	123.03	118.94
11	D	103	U4Z	CAB-CAD-CAH	-2.66	118.86	122.61
9	0	102	BCL	O2D-CGD-O1D	-2.66	118.64	123.84
10	I	104	U42	O13-C6-C5	-2.66	104.20	110.35
9	8	103	BCL	CHB-C4A-NA	2.66	128.19	124.51
9	8	103	BCL	C4-C3-C5	2.66	119.75	115.27
9	S	103	BCL	CAA-C2A-C1A	2.66	120.69	111.97
10	U	104	U42	O14-C8-C16	2.66	112.03	106.67
9	M	701	BCL	O2A-CGA-CBA	2.66	120.24	111.91
10	I	104	U42	CAX-CAT-CAS	2.66	118.71	112.33
9	D	101	BCL	C1-O2A-CGA	2.66	123.41	116.44
9	M	701	BCL	C1-O2A-CGA	2.66	123.41	116.44
9	D	101	BCL	C1D-CHD-C4C	-2.65	120.22	126.62
9	S	102	BCL	C6-C5-C3	-2.65	106.50	113.45
9	I	102	BCL	CHB-C4A-NA	2.65	128.18	124.51
9	U	102	BCL	CHB-C4A-NA	2.65	128.18	124.51
11	F	103	U4Z	CBF-CBH-CBJ	2.65	123.01	118.94
9	5	101	BCL	C4A-NA-C1A	2.65	107.90	106.71
9	L	1001	BCL	C4-C3-C5	2.65	119.73	115.27
9	4	103	BCL	C1-C2-C3	-2.65	121.46	126.04
9	Q	103	BCL	C1D-CHD-C4C	-2.65	120.24	126.62
10	Q	101	U42	CAB-CAD-CAJ	2.65	123.26	115.78
9	V	101	BCL	CHB-C4A-NA	2.64	128.17	124.51
9	F	101	BCL	C1-C2-C3	-2.64	121.47	126.04
9	K	101	BCL	CHB-C4A-NA	2.64	128.16	124.51
10	G	101	U42	CAP-CAQ-CAR	2.64	133.83	126.42
9	7	101	BCL	O2A-CGA-CBA	2.64	120.19	111.91
9	L	1002	BCL	CHC-C1C-NC	2.64	128.16	124.51
9	K	102	BCL	CAA-CBA-CGA	-2.63	105.55	113.25
9	I	102	BCL	CMB-C2B-C1B	-2.63	124.42	128.46
10	4	101	U42	CAC-CAB-CAD	2.63	114.53	110.48
9	S	103	BCL	C4A-NA-C1A	2.63	107.89	106.71
10	S	101	U42	CAK-CAH-CAD	-2.63	121.57	124.53
9	B	102	BCL	C1D-CHD-C4C	-2.62	120.30	126.62
9	J	101	BCL	C4-C3-C5	2.62	119.68	115.27
11	C	401	U4Z	CBG-CBB-CAV	2.62	128.84	123.47
9	4	102	BCL	C1C-NC-C4C	-2.62	105.53	106.71
9	S	102	BCL	CHB-C4A-NA	2.62	128.13	124.51
9	5	101	BCL	C1-C2-C3	-2.62	121.52	126.04
9	S	103	BCL	CAA-C2A-C3A	-2.62	105.62	112.78
11	J	102	U4Z	CBG-CBB-CAV	2.62	128.83	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	5	102	U4Z	CAQ-CAR-CAV	2.61	122.95	118.94
11	C	401	U4Z	CAI-CAH-CAD	-2.61	118.94	122.73
9	K	102	BCL	O2A-CGA-CBA	2.61	120.09	111.91
9	D	102	BCL	C4D-CHA-C1A	-2.61	118.08	121.25
11	N	102	U4Z	CAQ-CAR-CAV	2.60	122.94	118.94
9	P	101	BCL	O2A-CGA-CBA	2.60	120.07	111.91
9	I	103	BCL	C6-C5-C3	-2.60	106.64	113.45
9	3	101	BCL	CHB-C4A-NA	2.60	128.11	124.51
9	B	102	BCL	O2A-CGA-CBA	2.60	120.05	111.91
9	O	103	BCL	C4-C3-C5	2.59	119.63	115.27
10	4	101	U42	CAU-CAR-CAV	-2.59	119.29	122.92
10	B	101	U42	C4-C5-C6	-2.59	104.60	110.00
9	6	102	BCL	O2D-CGD-O1D	-2.59	118.77	123.84
9	S	103	BCL	C5-C3-C2	2.59	126.36	121.12
10	U	104	U42	CAE-CAI-CAH	2.59	118.70	114.08
10	U	104	U42	CAK-CAH-CAD	2.59	127.44	124.53
9	H	101	BCL	C4-C3-C5	2.59	119.62	115.27
10	4	104	U42	CAC-CAE-CAI	2.58	117.15	111.38
9	I	102	BCL	C1D-CHD-C4C	-2.58	120.39	126.62
9	L	1001	BCL	C1D-CHD-C4C	-2.58	120.39	126.62
9	U	102	BCL	C4-C3-C5	2.58	119.61	115.27
10	O	101	U42	CAU-CAR-CAV	-2.58	119.31	122.92
9	F	101	BCL	CHB-C4A-NA	2.58	128.08	124.51
9	K	102	BCL	C1D-CHD-C4C	-2.58	120.41	126.62
9	0	102	BCL	C1-C2-C3	-2.57	121.59	126.04
9	6	101	BCL	C1D-CHD-C4C	-2.57	120.41	126.62
9	L	1001	BCL	CHC-C1C-NC	2.57	128.07	124.51
9	D	101	BCL	C1-C2-C3	-2.57	121.60	126.04
14	C	404	HEC	CBD-CAD-C3D	-2.57	108.23	112.62
9	5	101	BCL	C4-C3-C5	2.57	119.59	115.27
11	S	104	U4Z	CBF-CBH-CBJ	2.56	122.87	118.94
9	U	102	BCL	C1D-CHD-C4C	-2.56	120.44	126.62
12	1	103	LMT	C1B-O1B-C4'	-2.56	111.62	117.96
10	U	104	U42	CAX-CAT-CAS	2.56	118.49	112.33
9	R	101	BCL	C1D-CHD-C4C	-2.56	120.44	126.62
11	D	103	U4Z	CAE-CAI-CAH	2.56	118.65	114.08
11	J	102	U4Z	CAQ-CAR-CAV	2.56	122.87	118.94
11	T	102	U4Z	CAQ-CAR-CAV	2.56	122.87	118.94
9	J	101	BCL	O2A-CGA-CBA	2.56	119.94	111.91
9	V	101	BCL	O2D-CGD-O1D	-2.56	118.84	123.84
9	J	101	BCL	CHB-C4A-NA	2.55	128.04	124.51
11	D	103	U4Z	CBF-CBH-CBJ	2.55	122.86	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	E	102	BCL	CMB-C2B-C1B	-2.55	124.54	128.46
9	N	101	BCL	CHB-C4A-NA	2.55	128.04	124.51
10	Q	101	U42	CAC-CAB-CAD	2.55	114.41	110.48
9	H	101	BCL	CMB-C2B-C1B	-2.55	124.55	128.46
9	U	103	BCL	CHC-C1C-NC	2.55	128.04	124.51
9	2	102	BCL	O2A-CGA-CBA	2.55	119.90	111.91
9	3	101	BCL	C1D-CHD-C4C	-2.55	120.48	126.62
9	U	103	BCL	C1D-CHD-C4C	-2.54	120.48	126.62
9	9	102	BCL	C1-C2-C3	-2.54	121.64	126.04
11	T	102	U4Z	CBF-CBH-CBJ	2.54	122.84	118.94
9	I	103	BCL	C4-C3-C5	2.54	119.54	115.27
9	O	102	BCL	CMB-C2B-C1B	-2.54	124.57	128.46
9	E	102	BCL	C1D-CHD-C4C	-2.54	120.50	126.62
9	1	101	BCL	O2A-CGA-CBA	2.53	119.86	111.91
10	Q	101	U42	CAP-CAO-CAM	2.53	130.93	127.31
9	O	102	BCL	O2A-CGA-CBA	2.53	119.86	111.91
10	G	101	U42	O13-C6-C5	-2.53	104.50	110.35
9	D	101	BCL	CHB-C4A-NA	2.53	128.01	124.51
11	1	102	U4Z	CAE-CAI-CAH	2.53	118.59	114.08
9	M	701	BCL	CHB-C4A-NA	2.53	128.01	124.51
11	3	102	U4Z	CAQ-CAR-CAV	2.53	122.82	118.94
9	F	101	BCL	C1C-NC-C4C	-2.53	105.57	106.71
9	9	102	BCL	CHB-C4A-NA	2.53	128.01	124.51
9	H	101	BCL	O2A-CGA-CBA	2.53	119.83	111.91
9	4	102	BCL	C1D-CHD-C4C	-2.53	120.53	126.62
9	Q	102	BCL	C1D-CHD-C4C	-2.53	120.53	126.62
9	D	102	BCL	C1D-CHD-C4C	-2.52	120.53	126.62
9	G	102	BCL	O2A-C1-C2	2.52	115.26	108.64
9	5	101	BCL	CHB-C4A-NA	2.52	128.00	124.51
10	B	101	U42	CBN-CBL-CBI	2.52	122.81	118.94
9	F	101	BCL	O2A-CGA-CBA	2.52	119.81	111.91
11	D	103	U4Z	CAQ-CAR-CAV	2.52	122.81	118.94
9	F	101	BCL	CMB-C2B-C1B	-2.52	124.59	128.46
10	I	101	U42	CBG-CBB-CAV	2.52	128.63	123.47
10	U	101	U42	O14-C8-C7	2.51	114.26	109.69
9	O	102	BCL	CHB-C4A-NA	2.51	127.99	124.51
9	R	101	BCL	C4A-NA-C1A	2.51	107.84	106.71
10	8	101	U42	CAP-CAQ-CAR	2.51	133.47	126.42
9	I	103	BCL	C1D-CHD-C4C	-2.51	120.57	126.62
9	2	102	BCL	CAA-C2A-C3A	-2.51	105.91	112.78
9	2	102	BCL	C2A-C3A-C4A	-2.51	97.82	101.87
9	T	101	BCL	C1-C2-C3	-2.51	121.71	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	7	101	BCL	CHB-C4A-NA	2.51	127.98	124.51
9	V	101	BCL	C1-C2-C3	-2.50	121.71	126.04
11	9	101	U4Z	CBF-CBH-CBJ	2.50	122.78	118.94
9	2	102	BCL	CHC-C1C-NC	2.50	127.97	124.51
10	E	101	U42	CAJ-CAL-CAM	2.50	130.02	126.23
9	3	101	BCL	C4-C3-C5	2.50	119.48	115.27
10	O	101	U42	CBJ-CBM-CBN	2.50	131.02	123.22
10	0	103	U42	C4-C5-C6	2.50	115.20	110.00
9	6	102	BCL	O2A-CGA-CBA	2.50	119.75	111.91
9	S	102	BCL	CBA-CAA-C2A	-2.50	106.48	113.86
9	K	102	BCL	CHC-C1C-NC	2.50	127.97	124.51
9	J	101	BCL	CMB-C2B-C1B	-2.50	124.62	128.46
9	P	101	BCL	CHD-C4C-NC	2.50	127.85	125.08
10	4	101	U42	CBM-CBJ-CBH	2.49	130.87	127.31
9	L	1002	BCL	C4D-CHA-C1A	-2.49	118.22	121.25
9	0	102	BCL	O2A-CGA-CBA	2.49	119.72	111.91
11	5	102	U4Z	CAB-CAD-CAH	-2.49	119.11	122.61
9	1	101	BCL	C1D-CHD-C4C	-2.49	120.62	126.62
10	O	101	U42	CAP-CAQ-CAR	2.49	133.40	126.42
10	U	104	U42	CAB-CAD-CAH	-2.48	119.11	122.61
11	S	104	U4Z	CAB-CAD-CAH	-2.48	119.11	122.61
9	9	102	BCL	C1D-CHD-C4C	-2.48	120.63	126.62
11	J	102	U4Z	CBF-CBH-CBJ	2.48	122.75	118.94
11	H	102	U4Z	CAB-CAD-CAH	-2.48	119.12	122.61
9	8	103	BCL	CAA-C2A-C3A	-2.48	105.98	112.78
9	E	102	BCL	CHC-C1C-NC	2.48	127.94	124.51
11	9	101	U4Z	CAQ-CAR-CAV	2.48	122.75	118.94
9	9	102	BCL	O2A-CGA-CBA	2.48	119.69	111.91
9	N	101	BCL	C1D-CHD-C4C	-2.48	120.64	126.62
9	4	103	BCL	O2A-CGA-O1A	-2.48	117.33	123.59
9	0	101	BCL	O2A-CGA-CBA	2.48	119.69	111.91
10	U	104	U42	CBK-CBH-CBJ	-2.48	119.45	122.92
9	B	102	BCL	CHB-C4A-NA	2.48	127.94	124.51
10	0	103	U42	CAZ-CAW-CBA	-2.48	116.20	122.59
9	G	102	BCL	CAA-C2A-C1A	2.48	120.09	111.97
9	U	102	BCL	C1-C2-C3	-2.48	121.76	126.04
9	T	101	BCL	C1D-CHD-C4C	-2.47	120.65	126.62
9	0	101	BCL	C1D-CHD-C4C	-2.47	120.65	126.62
9	K	102	BCL	C6-C7-C8	-2.47	107.92	115.92
9	W	102	BCL	C1D-CHD-C4C	-2.47	120.66	126.62
18	L	1003	BPH	CBC-CAC-C3C	-2.47	108.79	113.77
9	2	102	BCL	C1D-CHD-C4C	-2.47	120.67	126.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	S	101	U42	O1-CAY-CBC	-2.47	91.99	108.97
9	2	101	BCL	CHB-C4A-NA	2.47	127.93	124.51
9	W	102	BCL	CHC-C1C-NC	2.47	127.93	124.51
9	R	101	BCL	CHB-C4A-NA	2.47	127.92	124.51
9	0	101	BCL	CHB-C4A-NA	2.47	127.92	124.51
11	9	101	U4Z	CAE-CAI-CAH	2.46	118.48	114.08
9	O	103	BCL	O2A-CGA-CBA	2.46	119.64	111.91
10	4	104	U42	CBN-CBL-CBI	2.46	122.72	118.94
9	L	1002	BCL	CMB-C2B-C1B	-2.46	124.68	128.46
10	S	101	U42	CBO-CBL-CBI	-2.46	119.47	122.92
9	J	101	BCL	C4D-CHA-C1A	-2.46	118.26	121.25
9	U	103	BCL	O2A-CGA-O1A	-2.46	117.39	123.59
9	5	101	BCL	C1D-CHD-C4C	-2.46	120.69	126.62
9	B	103	BCL	CAA-C2A-C3A	-2.46	106.05	112.78
9	J	101	BCL	CHC-C1C-NC	2.46	127.91	124.51
9	5	101	BCL	O2A-CGA-CBA	2.45	119.61	111.91
9	A	101	BCL	C3C-C4C-CHD	-2.45	118.15	123.39
10	U	104	U42	CAP-CAQ-CAR	2.45	133.31	126.42
11	C	401	U4Z	CAE-CAI-CAH	2.45	118.45	114.08
9	F	101	BCL	C1D-CHD-C4C	-2.45	120.71	126.62
9	N	101	BCL	C1-C2-C3	-2.45	121.81	126.04
9	H	101	BCL	C1D-CHD-C4C	-2.45	120.72	126.62
9	D	101	BCL	CMB-C2B-C1B	-2.45	124.70	128.46
11	P	102	U4Z	CAB-CAD-CAH	-2.45	119.17	122.61
9	F	101	BCL	C4-C3-C5	2.44	119.38	115.27
9	H	101	BCL	C1-C2-C3	-2.44	121.82	126.04
9	6	102	BCL	C1D-CHD-C4C	-2.43	120.75	126.62
9	L	1001	BCL	C1-O2A-CGA	2.43	122.83	116.44
10	4	104	U42	O14-C4-O1	2.43	117.40	109.65
9	0	102	BCL	CAA-CBA-CGA	-2.43	106.16	113.25
9	9	102	BCL	C1-O2A-CGA	2.43	122.81	116.44
11	3	102	U4Z	CAB-CAD-CAH	-2.42	119.20	122.61
9	F	101	BCL	CHC-C1C-NC	2.42	127.86	124.51
9	4	103	BCL	CAA-C2A-C1A	2.42	119.90	111.97
11	1	102	U4Z	CBN-CBL-CBI	2.42	122.65	118.94
11	7	102	U4Z	CBF-CBH-CBJ	2.42	122.65	118.94
9	O	102	BCL	C1D-CHD-C4C	-2.42	120.79	126.62
9	K	101	BCL	C1D-CHD-C4C	-2.41	120.80	126.62
11	J	102	U4Z	CAB-CAD-CAH	-2.41	119.22	122.61
14	C	402	HEC	CMB-C2B-C1B	-2.40	124.77	128.46
10	B	101	U42	O15-C7-C8	2.40	115.26	109.30
11	A	102	U4Z	CAE-CAI-CAH	2.40	118.36	114.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	102	BCL	C1D-CHD-C4C	-2.40	120.83	126.62
14	C	403	HEC	CBD-CAD-C3D	-2.40	108.53	112.62
9	F	102	BCL	CHB-C4A-NA	2.40	127.83	124.51
9	F	102	BCL	C1C-NC-C4C	-2.40	105.63	106.71
11	A	102	U4Z	CAQ-CAR-CAV	2.39	122.62	118.94
9	2	101	BCL	O2A-C1-C2	2.39	114.93	108.64
9	V	101	BCL	C1D-CHD-C4C	-2.39	120.84	126.62
12	T	103	LMT	O5'-C5'-C6'	2.39	112.39	106.44
9	S	103	BCL	C1C-NC-C4C	-2.39	105.63	106.71
9	K	102	BCL	O1D-CGD-CBD	-2.39	119.59	124.48
9	E	102	BCL	C4-C3-C5	2.39	119.29	115.27
9	0	102	BCL	CMD-C2D-C3D	-2.39	122.12	127.61
9	0	102	BCL	CHB-C4A-NA	2.39	127.81	124.51
9	0	101	BCL	CMB-C2B-C1B	-2.39	124.80	128.46
9	B	102	BCL	CHC-C1C-NC	2.39	127.81	124.51
9	4	103	BCL	C6-C7-C8	-2.39	108.21	115.92
11	C	401	U4Z	CAJ-CAD-CAH	-2.39	115.68	121.46
9	B	102	BCL	C4D-CHA-C1A	-2.38	118.35	121.25
18	L	1003	BPH	CMB-C2B-C3B	2.38	129.13	124.68
9	I	102	BCL	CHC-C1C-NC	2.38	127.81	124.51
9	G	102	BCL	CHB-C4A-NA	2.38	127.80	124.51
9	B	103	BCL	CAA-CBA-CGA	-2.38	106.30	113.25
11	N	102	U4Z	CBF-CBH-CBJ	2.38	122.59	118.94
9	5	101	BCL	CHC-C1C-NC	2.38	127.80	124.51
9	I	103	BCL	C1-C2-C3	-2.37	121.94	126.04
10	E	101	U42	CAE-CAI-CAH	2.37	118.31	114.08
9	F	102	BCL	C1D-CHD-C4C	-2.37	120.91	126.62
11	F	103	U4Z	CAQ-CAR-CAV	2.37	122.58	118.94
9	D	102	BCL	CHC-C1C-NC	2.37	127.79	124.51
9	D	102	BCL	C1-C2-C3	-2.37	121.95	126.04
11	1	102	U4Z	CAB-CAD-CAH	-2.36	119.29	122.61
10	I	101	U42	CAC-CAE-CAI	2.36	116.65	111.38
10	4	104	U42	CBO-CBL-CBI	-2.36	119.62	122.92
11	7	102	U4Z	CAQ-CAR-CAV	2.36	122.56	118.94
11	P	102	U4Z	CAQ-CAR-CAV	2.36	122.56	118.94
9	P	101	BCL	CMB-C2B-C3B	2.35	129.08	124.68
9	J	101	BCL	C1D-CHD-C4C	-2.35	120.95	126.62
13	L	1015	BGL	C3-C4-C5	2.35	114.43	110.24
10	Q	101	U42	O14-C8-C16	2.35	111.41	106.67
10	4	101	U42	CAP-CAO-CAM	2.35	130.66	127.31
9	F	102	BCL	CHC-C1C-NC	2.35	127.75	124.51
9	A	101	BCL	CHA-C4D-ND	2.34	137.40	132.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	J	101	BCL	CBA-CAA-C2A	-2.34	106.95	113.86
9	6	102	BCL	C1B-CHB-C4A	-2.34	125.48	130.12
12	T	103	LMT	C1'-C2'-C3'	2.34	114.87	110.00
10	B	101	U42	CBE-CBF-CBH	2.34	132.98	126.42
9	D	102	BCL	CHB-C4A-NA	2.33	127.74	124.51
18	L	1003	BPH	O2A-CGA-CBA	2.33	119.21	111.91
9	8	102	BCL	O2A-CGA-CBA	2.33	119.21	111.91
9	A	101	BCL	C2C-C3C-C4C	-2.33	97.86	101.34
9	9	102	BCL	CMB-C2B-C1B	-2.32	124.89	128.46
9	G	102	BCL	CMD-C2D-C3D	-2.32	122.27	127.61
11	H	102	U4Z	CAQ-CAR-CAV	2.32	122.50	118.94
9	4	103	BCL	CMD-C2D-C3D	-2.32	122.28	127.61
10	O	101	U42	O14-C8-C7	-2.32	105.48	109.69
9	K	101	BCL	C11-C12-C13	-2.32	108.43	115.92
10	4	104	U42	CBB-CBG-CBI	2.32	128.22	123.47
9	6	102	BCL	CMD-C2D-C3D	-2.31	122.29	127.61
9	3	101	BCL	C11-C12-C13	-2.31	108.45	115.92
9	W	101	BCL	CBC-CAC-C3C	-2.31	108.33	113.47
9	S	103	BCL	C6-C5-C3	-2.30	107.42	113.45
9	6	101	BCL	O2A-CGA-CBA	2.30	119.12	111.91
9	S	103	BCL	C4-C3-C5	2.30	119.13	115.27
9	Q	103	BCL	CHB-C4A-NA	2.30	127.69	124.51
10	U	104	U42	CAL-CAJ-CAD	2.29	133.65	127.20
10	Q	101	U42	CBK-CBH-CBJ	-2.29	119.71	122.92
9	Q	103	BCL	CMB-C2B-C1B	-2.29	124.94	128.46
19	L	1004	MQE	OAA-CBQ-CBP	-2.29	117.85	121.56
9	E	102	BCL	CMD-C2D-C3D	-2.29	122.35	127.61
9	7	101	BCL	C1D-CHD-C4C	-2.29	121.10	126.62
9	3	101	BCL	O2A-CGA-CBA	2.29	119.08	111.91
10	U	104	U42	CAP-CAO-CAM	2.29	130.57	127.31
10	4	104	U42	CBK-CBH-CBJ	-2.29	119.72	122.92
9	B	103	BCL	O2A-CGA-CBA	2.28	119.08	111.91
10	4	104	U42	CAJ-CAD-CAH	2.28	126.99	121.46
14	C	403	HEC	C1D-C2D-C3D	-2.28	105.41	107.00
9	O	103	BCL	C1-O2A-CGA	2.28	122.43	116.44
10	4	101	U42	C7-C6-C5	2.28	114.80	110.82
9	Q	102	BCL	CED-O2D-CGD	2.28	121.09	115.94
10	O	101	U42	CBE-CBF-CBH	2.28	132.82	126.42
9	Q	103	BCL	C4-C3-C2	-2.28	117.83	123.68
10	I	101	U42	CBM-CBJ-CBH	2.28	130.56	127.31
10	0	103	U42	O1-CAY-CBD	-2.28	93.31	108.97
10	U	101	U42	CAC-CAB-CAD	2.27	113.97	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	E	101	U42	CAP-CAQ-CAR	2.26	132.78	126.42
10	U	101	U42	CBO-CBL-CBI	-2.26	119.76	122.92
10	4	101	U42	O15-C7-C8	-2.26	103.69	109.30
10	I	101	U42	O15-C7-C8	2.26	114.90	109.30
9	O	102	BCL	C2A-C1A-CHA	-2.25	119.92	123.86
11	V	102	U4Z	CAB-CAD-CAH	-2.25	119.44	122.61
9	G	102	BCL	C4-C3-C2	-2.25	117.90	123.68
9	3	101	BCL	C1-C2-C3	-2.25	122.15	126.04
9	L	1002	BCL	C1D-CHD-C4C	-2.25	121.19	126.62
11	1	102	U4Z	CBF-CBH-CBJ	2.25	122.39	118.94
9	H	101	BCL	C1-O2A-CGA	2.24	122.33	116.44
9	K	101	BCL	O2A-CGA-CBA	2.24	118.95	111.91
9	9	102	BCL	CHC-C1C-NC	2.24	127.61	124.51
9	4	103	BCL	C1-O2A-CGA	2.24	122.31	116.44
10	4	101	U42	CBO-CBL-CBI	-2.24	119.79	122.92
9	I	103	BCL	O2A-CGA-CBA	2.24	118.92	111.91
9	5	101	BCL	CMB-C2B-C1B	-2.23	125.03	128.46
9	Q	103	BCL	C1C-NC-C4C	-2.23	105.70	106.71
9	8	103	BCL	CMD-C2D-C3D	-2.23	122.48	127.61
9	Q	102	BCL	O2A-CGA-CBA	2.23	118.90	111.91
9	R	101	BCL	CMB-C2B-C1B	-2.23	125.04	128.46
9	8	103	BCL	O2A-CGA-CBA	2.23	118.90	111.91
9	0	102	BCL	C1C-NC-C4C	-2.23	105.70	106.71
9	4	102	BCL	CED-O2D-CGD	2.23	120.97	115.94
9	S	102	BCL	CHC-C1C-NC	2.23	127.59	124.51
9	J	101	BCL	C1C-NC-C4C	-2.22	105.71	106.71
11	H	102	U4Z	CBF-CBH-CBJ	2.22	122.35	118.94
9	K	102	BCL	CMD-C2D-C3D	-2.22	122.50	127.61
9	I	103	BCL	CMB-C2B-C1B	-2.22	125.05	128.46
9	F	102	BCL	O2A-CGA-CBA	2.22	118.87	111.91
9	U	102	BCL	C1C-NC-C4C	-2.22	105.71	106.71
9	Q	102	BCL	CHC-C1C-NC	2.22	127.58	124.51
9	1	101	BCL	C4D-CHA-C1A	-2.21	118.56	121.25
10	0	103	U42	CAE-CAI-CAH	2.21	118.02	114.08
9	K	101	BCL	CHC-C1C-NC	2.21	127.57	124.51
9	8	102	BCL	CHC-C1C-NC	2.21	127.56	124.51
9	B	103	BCL	C11-C12-C13	-2.21	108.79	115.92
11	1	102	U4Z	CAL-CAM-CAO	2.20	122.32	118.94
13	L	1011	BGL	O5-C5-C4	2.20	113.70	109.69
9	O	103	BCL	C3D-C4D-ND	2.20	113.80	110.24
9	L	1002	BCL	C4-C3-C5	2.20	118.98	115.27
9	8	102	BCL	C1C-NC-C4C	-2.20	105.72	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	3	101	BCL	C4D-CHA-C1A	-2.20	118.57	121.25
9	S	102	BCL	C5-C3-C2	-2.20	116.67	121.12
11	F	103	U4Z	CAB-CAD-CAH	-2.20	119.52	122.61
10	I	104	U42	CAL-CAJ-CAD	2.20	133.37	127.20
9	2	101	BCL	CMB-C2B-C1B	-2.20	125.09	128.46
9	M	701	BCL	CMB-C2B-C1B	-2.20	125.09	128.46
9	D	101	BCL	O2A-CGA-CBA	2.19	118.78	111.91
10	8	101	U42	CAJ-CAD-CAH	2.19	126.77	121.46
11	7	102	U4Z	CAE-CAI-CAH	2.19	117.99	114.08
9	G	102	BCL	CMB-C2B-C1B	-2.19	125.10	128.46
10	B	101	U42	CAP-CAQ-CAR	2.19	132.57	126.42
10	U	101	U42	CAT-CAX-CAY	2.18	124.94	114.13
10	S	101	U42	CBK-CBH-CBJ	-2.18	119.87	122.92
10	I	104	U42	C4-C5-C6	-2.18	105.45	110.00
9	P	101	BCL	CHA-C4D-ND	2.18	137.06	132.50
10	O	101	U42	CBN-CBL-CBI	2.18	122.28	118.94
10	E	101	U42	CBE-CBF-CBH	2.18	132.53	126.42
11	N	102	U4Z	CAB-CAD-CAH	-2.17	119.55	122.61
9	B	103	BCL	C4-C3-C5	2.17	118.93	115.27
9	2	102	BCL	C4-C3-C5	2.17	118.93	115.27
9	6	101	BCL	C6-C5-C3	-2.17	107.77	113.45
9	S	102	BCL	C2A-C1A-CHA	-2.17	120.06	123.86
9	W	101	BCL	C6-C5-C3	-2.17	107.77	113.45
10	I	104	U42	O1-CAY-CBC	-2.17	94.07	108.97
9	2	101	BCL	C4D-CHA-C1A	-2.17	118.61	121.25
9	M	701	BCL	CHC-C1C-NC	2.17	127.51	124.51
9	F	101	BCL	CBA-CAA-C2A	-2.16	107.48	113.86
9	W	101	BCL	CHC-C1C-NC	2.16	127.50	124.51
9	B	103	BCL	CED-O2D-CGD	2.16	120.82	115.94
12	D	105	LMT	C1B-O1B-C4'	-2.16	112.63	117.96
9	H	101	BCL	C6-C5-C3	-2.16	107.80	113.45
10	B	101	U42	CBK-CBH-CBF	2.16	121.47	118.08
9	A	101	BCL	CHA-C1A-NA	-2.16	121.46	126.40
10	S	101	U42	CAP-CAQ-CAR	2.15	132.46	126.42
9	R	101	BCL	C4D-CHA-C1A	-2.15	118.63	121.25
9	4	102	BCL	O2A-CGA-CBA	2.15	118.66	111.91
9	W	101	BCL	O2A-CGA-O1A	-2.15	118.16	123.59
9	L	1002	BCL	CHB-C4A-NA	2.15	127.49	124.51
10	E	101	U42	CBK-CBH-CBJ	-2.15	119.91	122.92
18	L	1003	BPH	O2A-C1-C2	2.14	114.27	108.64
10	Q	101	U42	CBO-CBL-CBI	-2.14	119.92	122.92
9	U	102	BCL	CHC-C1C-NC	2.14	127.47	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	H	101	BCL	CHB-C4A-NA	2.14	127.47	124.51
9	N	101	BCL	CHC-C1C-NC	2.14	127.47	124.51
9	Q	103	BCL	CAA-C2A-C1A	2.14	118.98	111.97
9	0	102	BCL	CED-O2D-CGD	2.14	120.77	115.94
10	0	103	U42	CAB-CAD-CAJ	2.13	121.82	115.78
10	U	101	U42	CAP-CAQ-CAR	2.13	132.41	126.42
9	K	101	BCL	C1-O2A-CGA	2.13	122.04	116.44
9	T	101	BCL	C4D-CHA-C1A	-2.13	118.66	121.25
9	7	101	BCL	C4D-CHA-C1A	-2.13	118.66	121.25
9	L	1001	BCL	CMD-C2D-C3D	-2.13	122.71	127.61
10	O	101	U42	CAB-CAD-CAJ	2.13	121.81	115.78
9	5	101	BCL	CBA-CAA-C2A	-2.13	107.58	113.86
9	4	103	BCL	C4B-CHC-C1C	-2.13	125.90	130.12
9	S	103	BCL	CHB-C4A-NA	2.13	127.45	124.51
9	E	102	BCL	C2A-C3A-C4A	-2.12	98.44	101.87
9	2	101	BCL	CED-O2D-CGD	2.12	120.74	115.94
11	V	102	U4Z	CAK-CAH-CAD	2.12	126.91	124.53
9	1	101	BCL	CHC-C1C-NC	2.12	127.44	124.51
9	9	102	BCL	C4D-CHA-C1A	-2.12	118.67	121.25
9	3	101	BCL	CMB-C2B-C1B	-2.12	125.21	128.46
10	4	104	U42	CBE-CBF-CBH	2.12	132.36	126.42
9	D	102	BCL	C11-C12-C13	-2.12	109.08	115.92
9	2	101	BCL	C1D-CHD-C4C	-2.11	121.52	126.62
10	O	101	U42	CBA-CBE-CBF	-2.11	116.62	123.22
9	R	101	BCL	CED-O2D-CGD	2.11	120.71	115.94
9	5	101	BCL	C1-O2A-CGA	2.11	121.98	116.44
9	8	103	BCL	C1D-CHD-C4C	-2.11	121.53	126.62
9	8	103	BCL	C6-C7-C8	-2.11	109.10	115.92
10	4	101	U42	O14-C8-C7	-2.11	105.86	109.69
9	O	102	BCL	CED-O2D-CGD	2.11	120.70	115.94
9	J	101	BCL	C6-C5-C3	-2.10	107.94	113.45
9	N	101	BCL	CMB-C2B-C1B	-2.10	125.23	128.46
9	O	102	BCL	CHC-C1C-NC	2.10	127.42	124.51
9	6	101	BCL	CHC-C1C-NC	2.10	127.41	124.51
9	0	101	BCL	CHC-C1C-NC	2.09	127.41	124.51
9	I	103	BCL	CMD-C2D-C3D	-2.09	122.81	127.61
9	K	102	BCL	CED-O2D-CGD	2.09	120.66	115.94
11	1	102	U4Z	CAK-CAH-CAD	2.09	126.87	124.53
9	V	101	BCL	CED-O2D-CGD	2.09	120.65	115.94
9	T	101	BCL	CHC-C1C-NC	2.08	127.39	124.51
9	A	101	BCL	CHC-C1C-NC	2.08	127.39	124.51
9	E	102	BCL	O2A-CGA-CBA	2.08	118.44	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	6	101	BCL	CED-O2D-CGD	2.08	120.65	115.94
9	A	101	BCL	CMB-C2B-C1B	-2.08	125.26	128.46
9	E	102	BCL	CHB-C4A-NA	2.08	127.39	124.51
11	C	401	U4Z	CBB-CAV-CAR	-2.08	124.34	127.31
9	2	101	BCL	O2A-CGA-O1A	-2.08	118.35	123.59
9	7	101	BCL	CMB-C2B-C1B	-2.08	125.27	128.46
10	4	104	U42	C6-C7-C8	2.08	113.94	110.24
9	S	103	BCL	CMD-C2D-C3D	-2.07	122.84	127.61
9	M	701	BCL	C4-C3-C5	2.07	118.76	115.27
10	S	101	U42	CAX-CAT-CAS	2.07	117.31	112.33
9	G	102	BCL	O2A-CGA-O1A	-2.07	118.36	123.59
10	U	104	U42	O17-C16-C8	2.07	112.82	108.43
10	4	104	U42	CAG-CAB-CAD	-2.07	106.94	110.30
9	U	102	BCL	C2A-C1A-CHA	-2.07	120.24	123.86
9	D	102	BCL	O2A-CGA-CBA	2.07	118.40	111.91
18	L	1005	BPH	C1A-C2A-C3A	-2.07	100.87	102.84
9	3	101	BCL	C6-C5-C3	-2.07	108.03	113.45
10	U	101	U42	C4-O14-C8	2.07	117.75	113.69
14	C	402	HEC	C1D-C2D-C3D	-2.07	105.56	107.00
11	3	102	U4Z	CAK-CAH-CAD	2.06	126.84	124.53
9	L	1001	BCL	O2A-CGA-O1A	-2.06	118.39	123.59
9	4	102	BCL	C1-O2A-CGA	2.06	121.85	116.44
9	8	103	BCL	CMB-C2B-C1B	-2.06	125.30	128.46
9	N	101	BCL	C4D-CHA-C1A	-2.06	118.75	121.25
9	D	102	BCL	C1C-NC-C4C	-2.06	105.78	106.71
9	9	102	BCL	C4A-NA-C1A	2.06	107.63	106.71
9	W	102	BCL	C6-C7-C8	-2.05	109.28	115.92
9	P	101	BCL	CMD-C2D-C1D	2.05	128.33	124.71
9	T	101	BCL	C1-O2A-CGA	2.05	121.82	116.44
10	I	104	U42	CBK-CBH-CBJ	-2.05	120.05	122.92
9	F	102	BCL	C2A-C1A-CHA	-2.05	120.28	123.86
9	1	101	BCL	C4A-NA-C1A	2.04	107.62	106.71
9	B	103	BCL	CMD-C2D-C3D	-2.04	122.92	127.61
10	E	101	U42	CAX-CAT-CAS	2.04	117.23	112.33
11	D	103	U4Z	CAK-CAH-CAD	2.04	126.82	124.53
9	F	101	BCL	C1-O2A-CGA	2.04	121.79	116.44
10	U	104	U42	CBM-CBN-CBL	2.04	132.14	126.42
10	4	101	U42	CAC-CAE-CAI	2.04	115.93	111.38
9	4	103	BCL	CHB-C4A-NA	2.04	127.33	124.51
9	S	102	BCL	CED-O2D-CGD	2.04	120.54	115.94
9	I	103	BCL	C1B-CHB-C4A	-2.04	126.08	130.12
9	D	102	BCL	O2A-CGA-O1A	-2.04	118.45	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	K	102	BCL	CMB-C2B-C1B	-2.03	125.34	128.46
9	W	102	BCL	CMD-C2D-C3D	-2.03	122.94	127.61
9	P	101	BCL	O1D-CGD-CBD	-2.03	120.33	124.48
9	Q	102	BCL	C1-O2A-CGA	2.03	121.77	116.44
11	9	101	U4Z	CAK-CAH-CAD	2.03	126.81	124.53
10	U	101	U42	O17-C16-C8	-2.03	104.13	108.43
9	F	101	BCL	C4D-CHA-C1A	-2.03	118.78	121.25
10	4	104	U42	CAB-CAD-CAJ	-2.03	110.04	115.78
9	3	101	BCL	CHC-C1C-NC	2.03	127.31	124.51
9	L	1002	BCL	O2D-CGD-O1D	-2.03	119.88	123.84
9	F	101	BCL	C6-C5-C3	-2.02	108.15	113.45
9	B	103	BCL	C7-C6-C5	-2.02	107.86	113.36
9	V	101	BCL	C4D-CHA-C1A	-2.02	118.79	121.25
10	0	103	U42	CAC-CAE-CAI	2.02	115.89	111.38
9	5	101	BCL	C11-C12-C13	-2.02	109.39	115.92
10	8	101	U42	CBO-CBL-CBN	-2.02	114.90	118.08
10	Q	101	U42	CBE-CBF-CBH	2.02	132.08	126.42
11	J	102	U4Z	CAK-CAH-CAD	2.02	126.79	124.53
9	L	1001	BCL	CHD-C1D-C2D	2.01	129.71	125.48
10	G	101	U42	CBG-CBB-CAV	2.01	127.60	123.47
9	P	101	BCL	CHA-C1A-NA	-2.01	121.79	126.40
9	D	101	BCL	C4D-CHA-C1A	-2.01	118.80	121.25
10	Q	101	U42	CAP-CAQ-CAR	2.01	132.06	126.42
9	O	102	BCL	O2A-CGA-O1A	-2.01	118.52	123.59
9	8	102	BCL	CMB-C2B-C1B	-2.01	125.38	128.46
9	2	101	BCL	C4B-CHC-C1C	-2.01	126.14	130.12
9	S	103	BCL	O2A-CGA-O1A	-2.01	118.53	123.59
9	4	103	BCL	CBA-CAA-C2A	2.00	119.78	113.86
9	V	101	BCL	C1-O2A-CGA	2.00	121.69	116.44
9	V	101	BCL	O2A-CGA-O1A	-2.00	118.54	123.59
9	2	102	BCL	CMD-C2D-C3D	-2.00	123.01	127.61

There are no chirality outliers.

All (1459) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
9	0	102	BCL	C4C-C3C-CAC-CBC
9	1	101	BCL	C1A-C2A-CAA-CBA
9	1	101	BCL	C3A-C2A-CAA-CBA
9	1	101	BCL	C2C-C3C-CAC-CBC
9	1	101	BCL	C4C-C3C-CAC-CBC
9	1	101	BCL	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
9	2	101	BCL	C4-C3-C5-C6
9	2	102	BCL	CBD-CGD-O2D-CED
9	3	101	BCL	C4C-C3C-CAC-CBC
9	4	103	BCL	C4C-C3C-CAC-CBC
9	6	102	BCL	C4C-C3C-CAC-CBC
9	6	102	BCL	C2-C3-C5-C6
9	6	102	BCL	C4-C3-C5-C6
9	7	101	BCL	C4C-C3C-CAC-CBC
9	7	101	BCL	CHA-CBD-CGD-O1D
9	8	103	BCL	C2C-C3C-CAC-CBC
9	8	103	BCL	C4C-C3C-CAC-CBC
9	8	103	BCL	CBD-CGD-O2D-CED
9	9	102	BCL	C2C-C3C-CAC-CBC
9	9	102	BCL	C4C-C3C-CAC-CBC
9	A	101	BCL	C2C-C3C-CAC-CBC
9	A	101	BCL	C4C-C3C-CAC-CBC
9	A	101	BCL	CHA-CBD-CGD-O1D
9	A	101	BCL	CHA-CBD-CGD-O2D
9	B	103	BCL	C1A-C2A-CAA-CBA
9	B	103	BCL	C3A-C2A-CAA-CBA
9	B	103	BCL	C2C-C3C-CAC-CBC
9	B	103	BCL	C4C-C3C-CAC-CBC
9	D	101	BCL	C2C-C3C-CAC-CBC
9	D	101	BCL	C4C-C3C-CAC-CBC
9	D	101	BCL	C14-C13-C15-C16
9	D	102	BCL	C1A-C2A-CAA-CBA
9	D	102	BCL	C4-C3-C5-C6
9	E	102	BCL	C2C-C3C-CAC-CBC
9	E	102	BCL	C4C-C3C-CAC-CBC
9	G	102	BCL	C1A-C2A-CAA-CBA
9	G	102	BCL	C3A-C2A-CAA-CBA
9	G	102	BCL	C4C-C3C-CAC-CBC
9	G	102	BCL	CBD-CGD-O2D-CED
9	G	102	BCL	C11-C10-C8-C9
9	H	101	BCL	C2C-C3C-CAC-CBC
9	H	101	BCL	C4C-C3C-CAC-CBC
9	I	103	BCL	C1A-C2A-CAA-CBA
9	I	103	BCL	C3A-C2A-CAA-CBA
9	I	103	BCL	CBD-CGD-O2D-CED
9	J	101	BCL	C2C-C3C-CAC-CBC
9	J	101	BCL	C4C-C3C-CAC-CBC
9	J	101	BCL	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
9	K	102	BCL	C1A-C2A-CAA-CBA
9	K	102	BCL	C3A-C2A-CAA-CBA
9	K	102	BCL	C2-C1-O2A-CGA
9	K	102	BCL	C4C-C3C-CAC-CBC
9	L	1001	BCL	C1A-C2A-CAA-CBA
9	L	1001	BCL	C4C-C3C-CAC-CBC
9	L	1002	BCL	C1A-C2A-CAA-CBA
9	L	1002	BCL	C3A-C2A-CAA-CBA
9	O	103	BCL	CBD-CGD-O2D-CED
9	P	101	BCL	C4C-C3C-CAC-CBC
9	P	101	BCL	CHA-CBD-CGD-O1D
9	P	101	BCL	CHA-CBD-CGD-O2D
9	Q	103	BCL	C1A-C2A-CAA-CBA
9	Q	103	BCL	C2C-C3C-CAC-CBC
9	R	101	BCL	C2C-C3C-CAC-CBC
9	R	101	BCL	C4C-C3C-CAC-CBC
9	S	103	BCL	C4C-C3C-CAC-CBC
9	T	101	BCL	C1A-C2A-CAA-CBA
9	T	101	BCL	C3A-C2A-CAA-CBA
9	U	103	BCL	C2C-C3C-CAC-CBC
9	U	103	BCL	C4C-C3C-CAC-CBC
9	U	103	BCL	C2-C3-C5-C6
9	U	103	BCL	C4-C3-C5-C6
9	V	101	BCL	C1A-C2A-CAA-CBA
9	V	101	BCL	C3A-C2A-CAA-CBA
9	W	101	BCL	C1A-C2A-CAA-CBA
9	W	101	BCL	C4C-C3C-CAC-CBC
9	W	101	BCL	C14-C13-C15-C16
9	W	102	BCL	C2C-C3C-CAC-CBC
9	W	102	BCL	C4C-C3C-CAC-CBC
9	W	102	BCL	C2-C3-C5-C6
9	W	102	BCL	C4-C3-C5-C6
9	W	102	BCL	C11-C10-C8-C9
10	0	103	U42	CAO-CAP-CAQ-CAR
10	0	103	U42	CAT-CAX-CAY-CBC
10	0	103	U42	CAT-CAX-CAY-CBD
10	4	101	U42	CAT-CAX-CAY-CBC
10	4	101	U42	CAT-CAX-CAY-CBD
10	4	101	U42	CAT-CAX-CAY-O1
10	E	101	U42	CAS-CAT-CAX-CAY
10	E	101	U42	CAT-CAX-CAY-CBC
10	E	101	U42	CAX-CAY-O1-C4

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Mol	Chain	Res	Type	Atoms
10	E	101	U42	CBC-CAY-O1-C4
10	E	101	U42	CBD-CAY-O1-C4
10	G	101	U42	CAJ-CAL-CAM-CAN
10	G	101	U42	CAJ-CAL-CAM-CAO
10	G	101	U42	CAT-CAS-CAW-CAZ
10	G	101	U42	CAT-CAX-CAY-CBC
10	G	101	U42	CAT-CAX-CAY-O1
10	G	101	U42	CAX-CAY-O1-C4
10	G	101	U42	CBC-CAY-O1-C4
10	G	101	U42	CBD-CAY-O1-C4
10	I	101	U42	C5-C4-O1-CAY
10	I	101	U42	CAT-CAX-CAY-CBC
10	I	101	U42	CAT-CAX-CAY-CBD
10	I	101	U42	CAX-CAY-O1-C4
10	I	101	U42	CBC-CAY-O1-C4
10	I	104	U42	CAX-CAY-O1-C4
10	I	104	U42	CBC-CAY-O1-C4
10	I	104	U42	CBD-CAY-O1-C4
10	O	101	U42	CAT-CAS-CAW-CAZ
10	O	101	U42	CAT-CAS-CAW-CBA
10	O	101	U42	CAX-CAY-O1-C4
10	O	101	U42	CBC-CAY-O1-C4
10	O	101	U42	CBD-CAY-O1-C4
10	O	101	U42	CBJ-CBM-CBN-CBL
10	Q	101	U42	CAT-CAX-CAY-CBC
10	Q	101	U42	CAX-CAY-O1-C4
10	S	101	U42	CAT-CAS-CAW-CAZ
10	S	101	U42	CAT-CAS-CAW-CBA
10	S	101	U42	CAT-CAX-CAY-CBC
10	S	101	U42	CAX-CAY-O1-C4
10	S	101	U42	CBC-CAY-O1-C4
10	S	101	U42	CBD-CAY-O1-C4
10	U	101	U42	C19-C18-O17-C16
10	U	101	U42	O2-C18-O17-C16
10	U	101	U42	CAJ-CAL-CAM-CAN
10	U	101	U42	CAJ-CAL-CAM-CAO
10	U	101	U42	CAX-CAY-O1-C4
10	U	101	U42	CBD-CAY-O1-C4
10	U	104	U42	C5-C4-O1-CAY
10	U	104	U42	O14-C4-O1-CAY
10	U	104	U42	CAT-CAS-CAW-CAZ
10	U	104	U42	CAT-CAS-CAW-CBA

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Mol	Chain	Res	Type	Atoms
10	U	104	U42	CAT-CAX-CAY-CBC
10	U	104	U42	CAT-CAX-CAY-O1
10	U	104	U42	CAX-CAY-O1-C4
10	U	104	U42	CBC-CAY-O1-C4
10	U	104	U42	CBD-CAY-O1-C4
11	1	102	U4Z	CAT-CAS-CAW-CAZ
11	C	401	U4Z	CAB-CAD-CAJ-CAL
11	C	401	U4Z	CAH-CAD-CAJ-CAL
11	C	401	U4Z	CAL-CAM-CAO-CAP
11	C	401	U4Z	CAN-CAM-CAO-CAP
11	C	401	U4Z	CAS-CAW-CBA-CBE
11	C	401	U4Z	CAZ-CAW-CBA-CBE
11	C	401	U4Z	CAT-CAX-CAY-CBC
11	C	401	U4Z	CBF-CBH-CBJ-CBM
11	C	401	U4Z	CBK-CBH-CBJ-CBM
11	V	102	U4Z	CAH-CAD-CAJ-CAL
16	C	407	PGV	C03-O11-P-O14
16	C	407	PGV	C04-O12-P-O13
16	C	407	PGV	C04-C05-C06-O06
16	C	407	PGV	O05-C05-C06-O06
16	C	408	PGV	C03-O11-P-O12
16	C	408	PGV	C03-O11-P-O13
16	C	408	PGV	C03-O11-P-O14
16	C	408	PGV	C04-C05-C06-O06
16	C	408	PGV	O05-C05-C06-O06
16	L	1006	PGV	C03-O11-P-O13
16	L	1006	PGV	O12-C04-C05-C06
16	L	1007	PGV	C03-O11-P-O14
16	L	1007	PGV	C04-O12-P-O13
16	L	1007	PGV	O12-C04-C05-O05
16	L	1008	PGV	C03-O11-P-O12
16	L	1008	PGV	C03-O11-P-O13
16	L	1008	PGV	C03-O11-P-O14
16	L	1008	PGV	C04-O12-P-O13
16	M	705	PGV	C03-O11-P-O12
16	M	705	PGV	C03-O11-P-O13
16	M	705	PGV	C03-O11-P-O14
16	M	705	PGV	C04-O12-P-O13
16	M	706	PGV	C03-O11-P-O12
16	P	103	PGV	O12-C04-C05-C06
16	P	103	PGV	O12-C04-C05-O05
16	P	104	PGV	O03-C01-C02-O01

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Mol	Chain	Res	Type	Atoms
16	P	104	PGV	C04-C05-C06-O06
18	L	1003	BPH	O2A-C1-C2-C3
18	L	1005	BPH	C4C-C3C-CAC-CBC
18	L	1005	BPH	C2C-C3C-CAC-CBC
18	M	702	BPH	C4C-C3C-CAC-CBC
18	M	702	BPH	C1-C2-C3-C4
19	L	1004	MQE	CAL-CAE-CAR-CBD
19	L	1004	MQE	CAL-CAE-CAR-CBV
19	L	1004	MQE	CAM-CAG-CAW-CBH
19	L	1004	MQE	CAM-CAG-CAW-CBY
19	L	1004	MQE	CBK-CAX-CAY-CBL
19	L	1004	MQE	CBQ-CAX-CAY-CBL
20	L	1017	PEF	C1-O3P-P-O1P
9	8	103	BCL	O1D-CGD-O2D-CED
9	G	102	BCL	O1D-CGD-O2D-CED
9	4	103	BCL	CBD-CGD-O2D-CED
9	B	103	BCL	CBD-CGD-O2D-CED
9	K	102	BCL	CBD-CGD-O2D-CED
9	M	701	BCL	CBD-CGD-O2D-CED
9	Q	103	BCL	CBD-CGD-O2D-CED
9	8	103	BCL	O1A-CGA-O2A-C1
9	W	101	BCL	O1A-CGA-O2A-C1
9	M	701	BCL	O1D-CGD-O2D-CED
9	2	102	BCL	O1D-CGD-O2D-CED
9	I	103	BCL	O1D-CGD-O2D-CED
9	8	103	BCL	CBA-CGA-O2A-C1
9	W	101	BCL	CBA-CGA-O2A-C1
11	C	401	U4Z	CAT-CAX-CAY-CBD
9	0	102	BCL	CBD-CGD-O2D-CED
9	1	101	BCL	CBD-CGD-O2D-CED
9	E	102	BCL	CBD-CGD-O2D-CED
9	O	102	BCL	CBD-CGD-O2D-CED
9	V	101	BCL	CBD-CGD-O2D-CED
9	W	102	BCL	CBD-CGD-O2D-CED
9	2	102	BCL	O1A-CGA-O2A-C1
9	4	103	BCL	O1A-CGA-O2A-C1
9	B	102	BCL	O1A-CGA-O2A-C1
9	B	103	BCL	O1A-CGA-O2A-C1
16	C	407	PGV	O04-C19-O03-C01
9	O	103	BCL	O1D-CGD-O2D-CED
13	L	1013	BGL	O5-C5-C6-O6
10	8	101	U42	O17-C16-C8-O14

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Mol	Chain	Res	Type	Atoms
10	G	101	U42	O17-C16-C8-O14
10	I	104	U42	O17-C16-C8-O14
10	O	101	U42	O17-C16-C8-O14
10	Q	101	U42	O17-C16-C8-O14
10	S	101	U42	O17-C16-C8-O14
9	9	102	BCL	CBD-CGD-O2D-CED
9	H	101	BCL	CBD-CGD-O2D-CED
9	I	102	BCL	CBD-CGD-O2D-CED
18	M	702	BPH	CBD-CGD-O2D-CED
13	L	1015	BGL	C4-C5-C6-O6
10	0	103	U42	C8-C16-O17-C18
9	0	101	BCL	C3-C5-C6-C7
9	2	101	BCL	C3-C5-C6-C7
9	3	101	BCL	C3-C5-C6-C7
9	6	101	BCL	C3-C5-C6-C7
9	B	102	BCL	C3-C5-C6-C7
9	B	103	BCL	C3-C5-C6-C7
9	O	103	BCL	C3-C5-C6-C7
9	R	101	BCL	C3-C5-C6-C7
9	S	103	BCL	C3-C5-C6-C7
9	U	102	BCL	C3-C5-C6-C7
9	U	103	BCL	C3-C5-C6-C7
9	W	102	BCL	C3-C5-C6-C7
18	M	702	BPH	C3-C5-C6-C7
9	4	103	BCL	CBA-CGA-O2A-C1
9	K	102	BCL	CBA-CGA-O2A-C1
16	C	407	PGV	C20-C19-O03-C01
16	C	408	PGV	C2-C1-O01-C02
9	S	102	BCL	CBD-CGD-O2D-CED
10	S	101	U42	O17-C16-C8-C7
13	L	1015	BGL	O5-C5-C6-O6
9	L	1002	BCL	C4-C3-C5-C6
9	O	103	BCL	C4-C3-C5-C6
9	S	103	BCL	C4-C3-C5-C6
10	I	101	U42	CAT-CAS-CAW-CAZ
19	L	1004	MQE	CAO-CAH-CAV-CBX
19	L	1004	MQE	CAS-CAN-CBB-CCA
9	2	101	BCL	C2-C3-C5-C6
9	D	102	BCL	C2-C3-C5-C6
10	G	101	U42	CAT-CAS-CAW-CBA
19	L	1004	MQE	CAO-CAH-CAV-CBF
9	3	101	BCL	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
9	B	103	BCL	C2A-CAA-CBA-CGA
9	I	102	BCL	C3-C5-C6-C7
9	J	101	BCL	C3-C5-C6-C7
9	N	101	BCL	C3-C5-C6-C7
9	V	101	BCL	C3-C5-C6-C7
10	O	101	U42	CAW-CAS-CAT-CAX
9	2	102	BCL	CBA-CGA-O2A-C1
9	8	102	BCL	CBA-CGA-O2A-C1
9	B	102	BCL	CBA-CGA-O2A-C1
9	B	103	BCL	CBA-CGA-O2A-C1
9	I	102	BCL	CBA-CGA-O2A-C1
9	I	103	BCL	CBA-CGA-O2A-C1
10	0	103	U42	C19-C18-O17-C16
12	T	103	LMT	C3'-C4'-O1B-C1B
9	B	103	BCL	O1D-CGD-O2D-CED
16	C	408	PGV	O02-C1-O01-C02
13	L	1012	BGL	C4-C5-C6-O6
13	Y	101	BGL	C4-C5-C6-O6
9	4	102	BCL	O1A-CGA-O2A-C1
9	I	102	BCL	O1A-CGA-O2A-C1
9	K	101	BCL	O1A-CGA-O2A-C1
9	K	102	BCL	O1A-CGA-O2A-C1
9	U	103	BCL	O1A-CGA-O2A-C1
10	0	103	U42	O2-C18-O17-C16
9	Q	103	BCL	O1D-CGD-O2D-CED
9	2	101	BCL	CBD-CGD-O2D-CED
9	F	101	BCL	CBD-CGD-O2D-CED
9	K	102	BCL	O1D-CGD-O2D-CED
10	I	101	U42	O17-C16-C8-O14
16	C	408	PGV	O12-C04-C05-O05
9	9	102	BCL	C3-C5-C6-C7
9	S	102	BCL	C3-C5-C6-C7
9	6	101	BCL	CBA-CGA-O2A-C1
9	F	102	BCL	CBA-CGA-O2A-C1
9	K	101	BCL	CBA-CGA-O2A-C1
9	Q	102	BCL	CBA-CGA-O2A-C1
9	U	103	BCL	CBA-CGA-O2A-C1
9	6	101	BCL	O1A-CGA-O2A-C1
9	8	102	BCL	O1A-CGA-O2A-C1
9	Q	102	BCL	O1A-CGA-O2A-C1
13	3	103	BGL	O5-C5-C6-O6
13	N	103	BGL	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
9	L	1002	BCL	CBD-CGD-O2D-CED
13	N	103	BGL	O5-C5-C6-O6
13	C	409	BGL	O5-C5-C6-O6
13	L	1013	BGL	C4-C5-C6-O6
10	O	101	U42	O17-C16-C8-C7
10	Q	101	U42	O17-C16-C8-C7
9	D	102	BCL	CBD-CGD-O2D-CED
9	0	101	BCL	CBA-CGA-O2A-C1
9	4	102	BCL	CBA-CGA-O2A-C1
22	h	101	LHG	C10-C11-C12-C13
9	I	103	BCL	O1A-CGA-O2A-C1
13	C	410	BGL	O5-C5-C6-O6
13	L	1011	BGL	O5-C5-C6-O6
13	L	1012	BGL	O5-C5-C6-O6
9	4	103	BCL	C4-C3-C5-C6
10	E	101	U42	CAT-CAS-CAW-CAZ
9	4	103	BCL	C2-C3-C5-C6
10	E	101	U42	CAT-CAS-CAW-CBA
11	1	102	U4Z	CAT-CAS-CAW-CBA
9	6	101	BCL	CBD-CGD-O2D-CED
9	O	102	BCL	C2A-CAA-CBA-CGA
10	O	101	U42	C23-C24-C25-C26
16	L	1007	PGV	C4-C5-C6-C7
16	M	706	PGV	C28-C29-C30-C31
13	Y	101	BGL	O5-C5-C6-O6
9	0	101	BCL	O1A-CGA-O2A-C1
19	L	1004	MQE	CAP-CAC-CAI-CBD
19	L	1004	MQE	CBB-CAN-CAS-CBH
19	M	704	MQE	CBM-CBJ-CBO-CCB
9	0	102	BCL	CBA-CGA-O2A-C1
9	W	102	BCL	CBA-CGA-O2A-C1
18	L	1003	BPH	CBD-CGD-O2D-CED
9	4	103	BCL	O1D-CGD-O2D-CED
9	F	102	BCL	O1A-CGA-O2A-C1
10	Q	101	U42	O2-C18-O17-C16
16	C	408	PGV	O12-C04-C05-C06
16	M	705	PGV	O12-C04-C05-C06
16	P	104	PGV	O12-C04-C05-C06
13	3	103	BGL	C4-C5-C6-O6
9	3	101	BCL	O1A-CGA-O2A-C1
9	A	101	BCL	C3-C5-C6-C7
10	E	101	U42	CAW-CAS-CAT-CAX

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Mol	Chain	Res	Type	Atoms
9	3	101	BCL	CBA-CGA-O2A-C1
10	Q	101	U42	C19-C18-O17-C16
13	F	104	BGL	O5-C5-C6-O6
9	D	101	BCL	CBD-CGD-O2D-CED
10	I	104	U42	O17-C16-C8-C7
12	1	103	LMT	C3'-C4'-O1B-C1B
9	7	101	BCL	C13-C15-C16-C17
9	P	101	BCL	C10-C11-C12-C13
9	W	102	BCL	C10-C11-C12-C13
18	M	702	BPH	C13-C15-C16-C17
19	L	1004	MQE	CAS-CAN-CBB-CBL
9	8	103	BCL	C14-C13-C15-C16
9	M	701	BCL	C11-C10-C8-C9
9	M	701	BCL	C14-C13-C15-C16
9	S	103	BCL	C6-C7-C8-C9
9	S	103	BCL	C11-C10-C8-C9
9	U	103	BCL	C11-C10-C8-C9
18	L	1005	BPH	C6-C7-C8-C9
9	O	102	BCL	O1D-CGD-O2D-CED
9	F	102	BCL	CBD-CGD-O2D-CED
9	J	101	BCL	CBD-CGD-O2D-CED
9	U	103	BCL	C8-C10-C11-C12
9	E	102	BCL	C2A-CAA-CBA-CGA
9	V	101	BCL	C2A-CAA-CBA-CGA
10	4	104	U42	CAJ-CAL-CAM-CAN
10	8	101	U42	CAJ-CAL-CAM-CAN
10	E	101	U42	CBE-CBF-CBH-CBK
10	I	101	U42	CAJ-CAL-CAM-CAN
11	C	401	U4Z	CAJ-CAL-CAM-CAN
10	4	104	U42	CAJ-CAL-CAM-CAO
10	8	101	U42	CAJ-CAL-CAM-CAO
10	I	101	U42	CAJ-CAL-CAM-CAO
9	2	101	BCL	C5-C6-C7-C8
9	G	102	BCL	C8-C10-C11-C12
9	I	102	BCL	C10-C11-C12-C13
9	P	101	BCL	C15-C16-C17-C18
10	G	101	U42	O17-C16-C8-C7
13	C	410	BGL	C4-C5-C6-O6
13	L	1011	BGL	C4-C5-C6-O6
10	4	104	U42	C21-C22-C23-C24
9	W	102	BCL	O1D-CGD-O2D-CED
9	6	102	BCL	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
9	G	102	BCL	C13-C15-C16-C17
9	I	103	BCL	C10-C11-C12-C13
9	Q	102	BCL	C15-C16-C17-C18
9	S	102	BCL	C10-C11-C12-C13
16	L	1007	PGV	C1-C2-C3-C4
9	3	101	BCL	CBD-CGD-O2D-CED
12	D	105	LMT	O5'-C5'-C6'-O6'
9	1	101	BCL	C5-C6-C7-C8
9	2	101	BCL	C10-C11-C12-C13
9	4	103	BCL	C10-C11-C12-C13
9	8	103	BCL	C5-C6-C7-C8
9	8	103	BCL	C13-C15-C16-C17
9	B	103	BCL	C5-C6-C7-C8
9	F	101	BCL	C13-C15-C16-C17
9	J	101	BCL	C8-C10-C11-C12
9	M	701	BCL	C13-C15-C16-C17
9	M	701	BCL	C15-C16-C17-C18
9	O	103	BCL	C5-C6-C7-C8
9	Q	103	BCL	C10-C11-C12-C13
9	V	101	BCL	C13-C15-C16-C17
9	V	101	BCL	O1D-CGD-O2D-CED
16	P	104	PGV	O05-C05-C06-O06
16	P	104	PGV	C19-C20-C21-C22
9	0	102	BCL	C5-C6-C7-C8
9	5	101	BCL	C8-C10-C11-C12
9	8	102	BCL	C13-C15-C16-C17
9	I	102	BCL	C5-C6-C7-C8
9	0	102	BCL	O1D-CGD-O2D-CED
12	T	103	LMT	O5B-C5B-C6B-O6B
10	8	101	U42	C21-C22-C23-C24
12	1	103	LMT	C5'-C4'-O1B-C1B
9	K	102	BCL	C15-C16-C17-C18
9	9	102	BCL	O1D-CGD-O2D-CED
9	4	103	BCL	C12-C13-C15-C16
9	I	103	BCL	C11-C10-C8-C7
9	K	101	BCL	C11-C12-C13-C15
9	P	101	BCL	C6-C7-C8-C10
9	Q	102	BCL	C12-C13-C15-C16
9	U	102	BCL	C11-C10-C8-C7
9	W	102	BCL	C11-C10-C8-C7
10	U	104	U42	CAW-CAS-CAT-CAX
9	O	103	BCL	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
9	1	101	BCL	O1D-CGD-O2D-CED
9	E	102	BCL	O1D-CGD-O2D-CED
9	H	101	BCL	O1D-CGD-O2D-CED
18	M	702	BPH	O1D-CGD-O2D-CED
9	1	101	BCL	C13-C15-C16-C17
9	D	102	BCL	C13-C15-C16-C17
9	F	101	BCL	C8-C10-C11-C12
9	I	103	BCL	C5-C6-C7-C8
9	L	1001	BCL	C13-C15-C16-C17
9	S	102	BCL	C5-C6-C7-C8
9	W	102	BCL	C5-C6-C7-C8
18	L	1005	BPH	C8-C10-C11-C12
9	0	102	BCL	O1A-CGA-O2A-C1
9	W	102	BCL	O1A-CGA-O2A-C1
9	2	102	BCL	C15-C16-C17-C18
9	N	101	BCL	C15-C16-C17-C18
19	L	1004	MQE	CAV-CAH-CAO-CBI
13	L	1015	BGL	O2-C1'-C2'-C3'
16	L	1006	PGV	O12-C04-C05-O05
16	L	1008	PGV	O12-C04-C05-O05
16	M	705	PGV	O12-C04-C05-O05
16	P	104	PGV	O12-C04-C05-O05
9	Q	103	BCL	C3-C5-C6-C7
9	4	102	BCL	C13-C15-C16-C17
9	O	103	BCL	C10-C11-C12-C13
9	U	102	BCL	C13-C15-C16-C17
9	S	103	BCL	CBA-CGA-O2A-C1
10	U	104	U42	C19-C18-O17-C16
12	D	105	LMT	O1'-C1-C2-C3
16	M	706	PGV	C26-C27-C28-C29
12	T	103	LMT	C4B-C5B-C6B-O6B
9	6	102	BCL	C5-C6-C7-C8
9	8	102	BCL	C15-C16-C17-C18
9	B	103	BCL	C15-C16-C17-C18
9	F	102	BCL	C13-C15-C16-C17
9	L	1002	BCL	C15-C16-C17-C18
9	U	103	BCL	C10-C11-C12-C13
9	V	101	BCL	C15-C16-C17-C18
9	0	101	BCL	C5-C6-C7-C8
9	D	101	BCL	C8-C10-C11-C12
9	P	101	BCL	C5-C6-C7-C8
9	S	102	BCL	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
18	L	1005	BPH	C10-C11-C12-C13
16	C	407	PGV	C03-O11-P-O12
16	L	1007	PGV	C03-O11-P-O12
16	P	104	PGV	C03-O11-P-O12
16	C	408	PGV	C1-C2-C3-C4
9	2	101	BCL	CBA-CGA-O2A-C1
9	S	103	BCL	CBD-CGD-O2D-CED
9	S	103	BCL	C8-C10-C11-C12
10	U	104	U42	O2-C18-O17-C16
9	S	102	BCL	O1D-CGD-O2D-CED
10	I	101	U42	CAT-CAS-CAW-CBA
13	L	1011	BGL	O2-C1'-C2'-C3'
9	7	101	BCL	C8-C10-C11-C12
9	U	102	BCL	C5-C6-C7-C8
9	P	101	BCL	C3-C5-C6-C7
10	S	101	U42	CAW-CAS-CAT-CAX
9	D	102	BCL	CBA-CGA-O2A-C1
9	G	102	BCL	CBA-CGA-O2A-C1
10	8	101	U42	C19-C18-O17-C16
16	P	104	PGV	C4-C5-C6-C7
10	U	101	U42	O17-C16-C8-O14
9	6	101	BCL	C10-C11-C12-C13
9	D	101	BCL	C15-C16-C17-C18
9	E	102	BCL	C15-C16-C17-C18
10	4	101	U42	C20-C21-C22-C23
20	L	1017	PEF	C18-C19-C20-C21
10	4	101	U42	C26-C27-C28-C29
10	B	101	U42	C24-C25-C26-C27
10	G	101	U42	C27-C28-C29-C30
10	Q	101	U42	C24-C25-C26-C27
10	U	104	U42	C27-C28-C29-C30
22	h	101	LHG	C18-C19-C20-C21
9	I	102	BCL	O1D-CGD-O2D-CED
9	M	701	BCL	C8-C10-C11-C12
9	R	101	BCL	C10-C11-C12-C13
10	4	101	U42	C28-C29-C30-C31
22	h	101	LHG	C11-C10-C9-C8
9	S	103	BCL	O1A-CGA-O2A-C1
16	M	706	PGV	C29-C30-C31-C32
16	P	103	PGV	C22-C23-C24-C25
13	F	104	BGL	C4-C5-C6-O6
9	0	101	BCL	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
9	S	103	BCL	C5-C6-C7-C8
9	6	102	BCL	C3-C5-C6-C7
10	4	104	U42	C27-C28-C29-C30
10	S	101	U42	C20-C21-C22-C23
16	C	407	PGV	C20-C21-C22-C23
16	C	408	PGV	C20-C21-C22-C23
9	1	101	BCL	C16-C17-C18-C19
9	2	102	BCL	C16-C17-C18-C20
9	9	102	BCL	C16-C17-C18-C20
9	E	102	BCL	C16-C17-C18-C19
9	F	102	BCL	C16-C17-C18-C20
9	L	1001	BCL	C16-C17-C18-C19
9	T	101	BCL	C16-C17-C18-C20
18	L	1003	BPH	C4-C3-C5-C6
10	O	101	U42	C25-C26-C27-C28
10	U	101	U42	C21-C22-C23-C24
13	H	107	BGL	C4'-C5'-C6'-C7'
9	O	103	BCL	C2-C3-C5-C6
9	0	102	BCL	C14-C13-C15-C16
9	E	102	BCL	C6-C7-C8-C9
9	G	102	BCL	C11-C12-C13-C14
9	M	701	BCL	C11-C12-C13-C14
9	T	101	BCL	C11-C12-C13-C14
10	B	101	U42	C27-C28-C29-C30
10	O	101	U42	C19-C20-C21-C22
9	I	103	BCL	C8-C10-C11-C12
9	S	103	BCL	C15-C16-C17-C18
9	7	101	BCL	C2A-CAA-CBA-CGA
16	M	705	PGV	C7-C8-C9-C10
16	M	705	PGV	C21-C22-C23-C24
22	h	101	LHG	C11-C12-C13-C14
16	L	1008	PGV	C04-C05-C06-O06
16	M	706	PGV	C04-C05-C06-O06
10	U	104	U42	CAJ-CAL-CAM-CAO
11	C	401	U4Z	CAJ-CAL-CAM-CAO
10	U	101	U42	CAW-CAS-CAT-CAX
13	N	103	BGL	C2'-C1'-O2-C2
9	M	701	BCL	C5-C6-C7-C8
9	Q	102	BCL	C8-C10-C11-C12
10	E	101	U42	C25-C26-C27-C28
16	L	1008	PGV	C20-C21-C22-C23
16	L	1008	PGV	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
9	U	102	BCL	CBD-CGD-O2D-CED
9	U	103	BCL	CBD-CGD-O2D-CED
13	N	103	BGL	O2-C1'-C2'-C3'
9	2	102	BCL	C16-C17-C18-C19
9	H	101	BCL	C16-C17-C18-C20
9	M	701	BCL	C16-C17-C18-C19
9	M	701	BCL	C16-C17-C18-C20
9	Q	102	BCL	C16-C17-C18-C19
9	V	101	BCL	C16-C17-C18-C19
9	V	101	BCL	C16-C17-C18-C20
18	L	1003	BPH	C10-C11-C12-C13
10	4	101	U42	C22-C23-C24-C25
16	M	706	PGV	C27-C28-C29-C30
16	P	104	PGV	C22-C23-C24-C25
16	C	408	PGV	C22-C23-C24-C25
16	L	1008	PGV	C22-C23-C24-C25
16	M	705	PGV	C24-C25-C26-C27
9	T	101	BCL	C13-C15-C16-C17
9	D	102	BCL	O1A-CGA-O2A-C1
9	G	102	BCL	O1A-CGA-O2A-C1
10	U	104	U42	C28-C29-C30-C31
9	H	101	BCL	C3-C5-C6-C7
9	6	102	BCL	CBA-CGA-O2A-C1
9	F	101	BCL	O1D-CGD-O2D-CED
9	2	102	BCL	C3A-C2A-CAA-CBA
9	3	101	BCL	C3A-C2A-CAA-CBA
9	D	102	BCL	C3A-C2A-CAA-CBA
9	Q	103	BCL	C3A-C2A-CAA-CBA
9	W	101	BCL	C3A-C2A-CAA-CBA
9	W	102	BCL	C13-C15-C16-C17
13	H	107	BGL	C1'-C2'-C3'-C4'
10	U	104	U42	O17-C16-C8-C7
10	Q	101	U42	C25-C26-C27-C28
13	Y	101	BGL	O2-C1'-C2'-C3'
9	3	101	BCL	C16-C17-C18-C19
9	F	101	BCL	C16-C17-C18-C19
9	H	101	BCL	C16-C17-C18-C19
18	L	1005	BPH	C16-C17-C18-C19
18	L	1005	BPH	C16-C17-C18-C20
13	L	1013	BGL	C2'-C3'-C4'-C5'
22	h	101	LHG	C12-C13-C14-C15
9	0	101	BCL	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
9	7	101	BCL	CBD-CGD-O2D-CED
10	O	101	U42	CAV-CBB-CBG-CBI
10	U	101	U42	CAV-CBB-CBG-CBI
9	S	103	BCL	C2-C3-C5-C6
18	L	1003	BPH	C2-C3-C5-C6
16	L	1007	PGV	C2-C1-O01-C02
9	2	101	BCL	O1D-CGD-O2D-CED
9	8	102	BCL	CBD-CGD-O2D-CED
10	I	104	U42	C24-C25-C26-C27
12	1	103	LMT	C3-C4-C5-C6
9	L	1002	BCL	O1D-CGD-O2D-CED
16	M	706	PGV	O05-C05-C06-O06
10	8	101	U42	O2-C18-O17-C16
9	5	101	BCL	C16-C17-C18-C19
9	E	102	BCL	C16-C17-C18-C20
9	E	102	BCL	C10-C11-C12-C13
9	N	101	BCL	C8-C10-C11-C12
18	M	702	BPH	C15-C16-C17-C18
16	L	1008	PGV	C4-C5-C6-C7
9	2	101	BCL	O1A-CGA-O2A-C1
9	G	102	BCL	C10-C11-C12-C13
16	L	1007	PGV	O12-C04-C05-C06
13	L	1012	BGL	C4'-C5'-C6'-C7'
16	L	1007	PGV	O02-C1-O01-C02
22	h	101	LHG	C16-C17-C18-C19
9	B	103	BCL	C10-C11-C12-C13
9	U	102	BCL	C15-C16-C17-C18
16	L	1007	PGV	C3-C4-C5-C6
9	8	103	BCL	C3-C5-C6-C7
9	G	102	BCL	C3-C5-C6-C7
10	0	103	U42	CAB-CAD-CAJ-CAL
10	0	103	U42	CAH-CAD-CAJ-CAL
10	4	101	U42	CAB-CAD-CAJ-CAL
10	4	101	U42	CAH-CAD-CAJ-CAL
10	B	101	U42	CAB-CAD-CAJ-CAL
10	B	101	U42	CAH-CAD-CAJ-CAL
10	I	101	U42	CAB-CAD-CAJ-CAL
10	I	101	U42	CAH-CAD-CAJ-CAL
10	O	101	U42	CAB-CAD-CAJ-CAL
10	O	101	U42	CAH-CAD-CAJ-CAL
10	Q	101	U42	CAB-CAD-CAJ-CAL
10	Q	101	U42	CAH-CAD-CAJ-CAL

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Mol	Chain	Res	Type	Atoms
10	S	101	U42	CAH-CAD-CAJ-CAL
10	U	104	U42	CAB-CAD-CAJ-CAL
10	U	104	U42	CAH-CAD-CAJ-CAL
11	1	102	U4Z	CAB-CAD-CAJ-CAL
11	1	102	U4Z	CAH-CAD-CAJ-CAL
11	3	102	U4Z	CAB-CAD-CAJ-CAL
11	3	102	U4Z	CAH-CAD-CAJ-CAL
11	5	102	U4Z	CAB-CAD-CAJ-CAL
11	5	102	U4Z	CAH-CAD-CAJ-CAL
11	7	102	U4Z	CAB-CAD-CAJ-CAL
11	7	102	U4Z	CAH-CAD-CAJ-CAL
11	9	101	U4Z	CAB-CAD-CAJ-CAL
11	9	101	U4Z	CAH-CAD-CAJ-CAL
11	A	102	U4Z	CAB-CAD-CAJ-CAL
11	A	102	U4Z	CAH-CAD-CAJ-CAL
11	D	103	U4Z	CAB-CAD-CAJ-CAL
11	D	103	U4Z	CAH-CAD-CAJ-CAL
11	F	103	U4Z	CAB-CAD-CAJ-CAL
11	F	103	U4Z	CAH-CAD-CAJ-CAL
11	H	102	U4Z	CAB-CAD-CAJ-CAL
11	H	102	U4Z	CAH-CAD-CAJ-CAL
11	J	102	U4Z	CAB-CAD-CAJ-CAL
11	J	102	U4Z	CAH-CAD-CAJ-CAL
11	N	102	U4Z	CAB-CAD-CAJ-CAL
11	N	102	U4Z	CAH-CAD-CAJ-CAL
11	P	102	U4Z	CAB-CAD-CAJ-CAL
11	P	102	U4Z	CAH-CAD-CAJ-CAL
11	S	104	U4Z	CAB-CAD-CAJ-CAL
11	S	104	U4Z	CAH-CAD-CAJ-CAL
11	T	102	U4Z	CAB-CAD-CAJ-CAL
11	T	102	U4Z	CAH-CAD-CAJ-CAL
11	V	102	U4Z	CAB-CAD-CAJ-CAL
10	U	101	U42	C23-C24-C25-C26
13	N	103	BGL	C1'-C2'-C3'-C4'
13	L	1015	BGL	C2'-C3'-C4'-C5'
16	P	103	PGV	C1-C2-C3-C4
10	4	104	U42	C23-C24-C25-C26
10	B	101	U42	C26-C27-C28-C29
9	B	102	BCL	C10-C11-C12-C13
10	U	101	U42	CAT-CAS-CAW-CAZ
9	0	102	BCL	C12-C13-C15-C16
9	1	101	BCL	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
9	2	101	BCL	C11-C12-C13-C15
9	6	101	BCL	C11-C12-C13-C15
9	8	103	BCL	C12-C13-C15-C16
9	B	103	BCL	C2-C3-C5-C6
9	D	101	BCL	C12-C13-C15-C16
9	G	102	BCL	C11-C12-C13-C15
9	I	102	BCL	C11-C12-C13-C15
9	I	103	BCL	C11-C12-C13-C15
9	L	1002	BCL	C2-C3-C5-C6
9	M	701	BCL	C11-C12-C13-C15
9	Q	103	BCL	C6-C7-C8-C10
9	8	102	BCL	C3-C5-C6-C7
9	6	102	BCL	O1A-CGA-O2A-C1
10	8	101	U42	C26-C27-C28-C29
10	S	101	U42	C19-C20-C21-C22
16	L	1007	PGV	C2-C3-C4-C5
9	4	102	BCL	C8-C10-C11-C12
9	D	102	BCL	C5-C6-C7-C8
18	L	1005	BPH	CBD-CGD-O2D-CED
9	9	102	BCL	C16-C17-C18-C19
9	L	1001	BCL	C16-C17-C18-C20
16	L	1008	PGV	O02-C1-O01-C02
16	P	104	PGV	C1-C2-C3-C4
10	S	101	U42	C18-C19-C20-C21
9	D	101	BCL	O1D-CGD-O2D-CED
9	I	103	BCL	C15-C16-C17-C18
10	U	104	U42	O17-C16-C8-O14
16	C	408	PGV	C28-C29-C30-C31
9	D	102	BCL	C15-C16-C17-C18
13	D	104	BGL	C4'-C5'-C6'-C7'
16	L	1008	PGV	C2-C1-O01-C02
16	P	103	PGV	O01-C02-C03-O11
16	L	1007	PGV	C14-C15-C16-C17
9	6	102	BCL	C8-C10-C11-C12
9	F	101	BCL	C15-C16-C17-C18
9	K	101	BCL	CBD-CGD-O2D-CED
10	U	104	U42	C21-C22-C23-C24
9	1	101	BCL	C16-C17-C18-C20
9	F	102	BCL	C16-C17-C18-C19
20	L	1017	PEF	C15-C16-C17-C18
9	O	103	BCL	C15-C16-C17-C18
9	B	103	BCL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
9	Q	103	BCL	C4-C3-C5-C6
9	Q	103	BCL	C2-C3-C5-C6
9	0	101	BCL	C11-C10-C8-C9
9	0	102	BCL	C11-C12-C13-C14
9	2	102	BCL	C11-C10-C8-C9
9	6	101	BCL	C11-C12-C13-C14
9	B	103	BCL	C14-C13-C15-C16
9	D	101	BCL	C11-C10-C8-C9
9	G	102	BCL	C14-C13-C15-C16
9	I	102	BCL	C11-C12-C13-C14
9	I	103	BCL	C6-C7-C8-C9
9	I	103	BCL	C11-C10-C8-C9
9	I	103	BCL	C11-C12-C13-C14
9	K	101	BCL	C11-C12-C13-C14
9	M	701	BCL	C6-C7-C8-C9
9	N	101	BCL	C11-C12-C13-C14
9	O	103	BCL	C6-C7-C8-C9
9	O	103	BCL	C11-C10-C8-C9
9	Q	102	BCL	C6-C7-C8-C9
9	R	101	BCL	C11-C12-C13-C14
9	S	103	BCL	C11-C12-C13-C14
9	U	102	BCL	C11-C10-C8-C9
18	L	1003	BPH	C11-C10-C8-C9
10	8	101	U42	O17-C16-C8-C7
9	R	101	BCL	C2A-CAA-CBA-CGA
16	C	408	PGV	C25-C26-C27-C28
16	M	705	PGV	C5-C6-C7-C8
12	T	103	LMT	O5'-C5'-C6'-O6'
10	I	104	U42	CAJ-CAL-CAM-CAN
10	U	104	U42	CAJ-CAL-CAM-CAN
18	L	1003	BPH	C2C-C3C-CAC-CBC
9	S	103	BCL	C10-C11-C12-C13
10	I	104	U42	CAJ-CAL-CAM-CAO
9	2	102	BCL	C1A-C2A-CAA-CBA
9	3	101	BCL	C1A-C2A-CAA-CBA
9	4	103	BCL	C1A-C2A-CAA-CBA
9	6	102	BCL	C1A-C2A-CAA-CBA
9	S	103	BCL	C1A-C2A-CAA-CBA
9	N	101	BCL	C16-C17-C18-C20
9	Q	102	BCL	C16-C17-C18-C20
9	T	101	BCL	C16-C17-C18-C19
16	M	706	PGV	C2-C3-C4-C5

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Mol	Chain	Res	Type	Atoms
9	6	101	BCL	O1D-CGD-O2D-CED
9	5	101	BCL	C15-C16-C17-C18
13	Y	101	BGL	C1'-C2'-C3'-C4'
9	D	102	BCL	O1D-CGD-O2D-CED
9	J	101	BCL	O1D-CGD-O2D-CED
13	H	107	BGL	C4-C5-C6-O6
9	B	102	BCL	C15-C16-C17-C18
12	T	103	LMT	C5'-C4'-O1B-C1B
9	Q	103	BCL	C5-C6-C7-C8
9	J	101	BCL	C16-C17-C18-C19
10	G	101	U42	C19-C20-C21-C22
10	Q	101	U42	C22-C23-C24-C25
10	B	101	U42	O17-C16-C8-O14
10	E	101	U42	O17-C16-C8-O14
10	E	101	U42	C27-C28-C29-C30
10	I	101	U42	C28-C29-C30-C31
16	M	705	PGV	C11-C10-C9-C8
10	I	101	U42	O17-C16-C8-C7
9	0	102	BCL	C2C-C3C-CAC-CBC
9	3	101	BCL	C2C-C3C-CAC-CBC
9	4	103	BCL	C2C-C3C-CAC-CBC
9	6	102	BCL	C2C-C3C-CAC-CBC
9	7	101	BCL	C2C-C3C-CAC-CBC
9	F	101	BCL	C2C-C3C-CAC-CBC
9	G	102	BCL	C2C-C3C-CAC-CBC
9	K	102	BCL	C2C-C3C-CAC-CBC
9	N	101	BCL	C2C-C3C-CAC-CBC
9	P	101	BCL	C2C-C3C-CAC-CBC
9	S	103	BCL	C2C-C3C-CAC-CBC
9	T	101	BCL	C2C-C3C-CAC-CBC
9	W	101	BCL	C2C-C3C-CAC-CBC
9	2	102	BCL	C13-C15-C16-C17
9	7	101	BCL	C15-C16-C17-C18
9	3	101	BCL	O1D-CGD-O2D-CED
10	O	101	U42	C20-C21-C22-C23
16	C	408	PGV	C27-C28-C29-C30
18	L	1003	BPH	O1D-CGD-O2D-CED
10	0	103	U42	C29-C30-C31-C32
10	I	104	U42	C28-C29-C30-C31
16	C	408	PGV	O03-C01-C02-C03
16	L	1006	PGV	C6-C7-C8-C9
16	L	1007	PGV	O03-C01-C02-C03

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Mol	Chain	Res	Type	Atoms
16	P	103	PGV	O03-C01-C02-C03
16	P	104	PGV	C27-C28-C29-C30
9	8	102	BCL	C8-C10-C11-C12
9	Q	103	BCL	C8-C10-C11-C12
13	D	104	BGL	C5'-C6'-C7'-C8'
22	h	101	LHG	O7-C7-C8-C9
10	Q	101	U42	C29-C30-C31-C32
16	M	705	PGV	C4-C5-C6-C7
9	0	101	BCL	C13-C15-C16-C17
13	C	409	BGL	C4-C5-C6-O6
10	S	101	U42	C25-C26-C27-C28
10	U	104	U42	C29-C30-C31-C32
9	I	103	BCL	C13-C15-C16-C17
10	S	101	U42	C23-C24-C25-C26
16	P	104	PGV	C11-C10-C9-C8
10	B	101	U42	C25-C26-C27-C28
13	C	410	BGL	C2'-C3'-C4'-C5'
16	P	103	PGV	C4-C5-C6-C7
10	E	101	U42	CAU-CAR-CAV-CBB
9	8	103	BCL	C4-C3-C5-C6
9	V	101	BCL	C4-C3-C5-C6
9	V	101	BCL	C2-C3-C5-C6
10	4	104	U42	C19-C18-O17-C16
10	4	101	U42	C25-C26-C27-C28
9	O	102	BCL	C10-C11-C12-C13
10	S	101	U42	CAS-CAT-CAX-CAY
9	S	102	BCL	C2A-CAA-CBA-CGA
9	O	103	BCL	C2-C1-O2A-CGA
12	T	103	LMT	C11-C10-C9-C8
16	L	1006	PGV	C26-C27-C28-C29
9	F	101	BCL	C3-C5-C6-C7
16	P	103	PGV	C3-C4-C5-C6
22	h	101	LHG	C19-C20-C21-C22
9	F	102	BCL	O1D-CGD-O2D-CED
16	L	1006	PGV	C9-C10-C11-C12
13	Y	101	BGL	C1-C2-O2-C1'
9	N	101	BCL	CBA-CGA-O2A-C1
16	M	705	PGV	C20-C19-O03-C01
10	U	101	U42	C29-C30-C31-C32
9	4	103	BCL	C13-C15-C16-C17
9	9	102	BCL	C13-C15-C16-C17
9	D	102	BCL	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
10	O	101	U42	CBF-CBH-CBJ-CBM
10	S	101	U42	C21-C22-C23-C24
16	C	407	PGV	O03-C01-C02-O01
16	C	408	PGV	O03-C01-C02-O01
16	L	1006	PGV	O03-C01-C02-O01
9	A	101	BCL	C5-C6-C7-C8
18	L	1003	BPH	CHA-CBD-CGD-O1D
18	L	1003	BPH	CHA-CBD-CGD-O2D
9	7	101	BCL	O1D-CGD-O2D-CED
9	P	101	BCL	C4-C3-C5-C6
9	0	101	BCL	C11-C10-C8-C7
9	0	102	BCL	C11-C12-C13-C15
9	2	101	BCL	C6-C7-C8-C10
9	2	102	BCL	C6-C7-C8-C10
9	2	102	BCL	C11-C10-C8-C7
9	4	102	BCL	C11-C12-C13-C15
9	7	101	BCL	C11-C10-C8-C7
9	8	102	BCL	C11-C10-C8-C7
9	8	102	BCL	C12-C13-C15-C16
9	8	103	BCL	C2-C3-C5-C6
9	B	103	BCL	C12-C13-C15-C16
9	D	101	BCL	C11-C10-C8-C7
9	E	102	BCL	C11-C10-C8-C7
9	F	101	BCL	C11-C12-C13-C15
9	G	102	BCL	C12-C13-C15-C16
9	H	101	BCL	C11-C10-C8-C7
9	I	103	BCL	C6-C7-C8-C10
9	J	101	BCL	C11-C12-C13-C15
9	M	701	BCL	C6-C7-C8-C10
9	M	701	BCL	C11-C10-C8-C7
9	N	101	BCL	C11-C10-C8-C7
9	N	101	BCL	C11-C12-C13-C15
9	O	103	BCL	C6-C7-C8-C10
9	P	101	BCL	C2-C3-C5-C6
9	R	101	BCL	C11-C12-C13-C15
9	S	102	BCL	C12-C13-C15-C16
9	S	103	BCL	C11-C12-C13-C15
9	U	103	BCL	C11-C10-C8-C7
9	W	101	BCL	C11-C12-C13-C15
9	W	102	BCL	C6-C7-C8-C10
18	L	1003	BPH	C11-C10-C8-C7
22	h	101	LHG	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
9	2	101	BCL	C6-C7-C8-C9
9	2	101	BCL	C11-C12-C13-C14
9	4	102	BCL	C11-C12-C13-C14
9	6	102	BCL	C11-C12-C13-C14
9	6	102	BCL	C14-C13-C15-C16
9	8	102	BCL	C14-C13-C15-C16
9	D	102	BCL	C11-C12-C13-C14
9	E	102	BCL	C11-C10-C8-C9
9	E	102	BCL	C11-C12-C13-C14
9	H	101	BCL	C14-C13-C15-C16
9	J	101	BCL	C11-C12-C13-C14
9	K	102	BCL	C11-C10-C8-C9
9	L	1001	BCL	C14-C13-C15-C16
9	N	101	BCL	C11-C10-C8-C9
9	O	102	BCL	C11-C10-C8-C9
9	S	102	BCL	C11-C12-C13-C14
9	S	102	BCL	C14-C13-C15-C16
9	V	101	BCL	C6-C7-C8-C9
9	W	102	BCL	C6-C7-C8-C9
10	8	101	U42	CAV-CBB-CBG-CBI
10	0	103	U42	C26-C27-C28-C29
10	Q	101	U42	C28-C29-C30-C31
9	O	102	BCL	CBA-CGA-O2A-C1
9	J	101	BCL	C16-C17-C18-C20
9	2	102	BCL	C8-C10-C11-C12
9	F	102	BCL	C8-C10-C11-C12
16	M	705	PGV	C2-C1-O01-C02
9	A	101	BCL	CBA-CGA-O2A-C1
13	3	103	BGL	C5'-C6'-C7'-C8'
16	L	1007	PGV	C11-C10-C9-C8
16	P	103	PGV	C13-C14-C15-C16
13	L	1015	BGL	C1'-C2'-C3'-C4'
16	C	407	PGV	C01-C02-C03-O11
16	C	408	PGV	C01-C02-C03-O11
16	L	1008	PGV	C01-C02-C03-O11
16	P	103	PGV	C01-C02-C03-O11
16	P	104	PGV	C01-C02-C03-O11
9	7	101	BCL	C3-C5-C6-C7
10	O	101	U42	C21-C22-C23-C24
10	U	104	U42	C20-C21-C22-C23
18	M	702	BPH	C1-C2-C3-C5
9	E	102	BCL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
9	7	101	BCL	C16-C17-C18-C19
9	V	101	BCL	C8-C10-C11-C12
10	U	101	U42	O17-C16-C8-C7
10	I	101	U42	O14-C4-O1-CAY
10	U	101	U42	O14-C4-O1-CAY
18	L	1005	BPH	O1D-CGD-O2D-CED
10	B	101	U42	CAT-CAX-CAY-CBC
10	E	101	U42	CAT-CAX-CAY-CBD
10	G	101	U42	CAT-CAX-CAY-CBD
10	I	104	U42	CAT-CAX-CAY-CBC
10	Q	101	U42	CAT-CAX-CAY-CBD
10	S	101	U42	CAT-CAX-CAY-CBD
10	U	104	U42	CAT-CAX-CAY-CBD
16	C	407	PGV	O03-C01-C02-C03
16	L	1006	PGV	O03-C01-C02-C03
16	L	1006	PGV	C5-C6-C7-C8
10	4	104	U42	CAV-CBB-CBG-CBI
16	L	1008	PGV	C21-C22-C23-C24
9	L	1001	BCL	C3-C5-C6-C7
10	U	101	U42	C5-C4-O1-CAY
9	S	103	BCL	O1D-CGD-O2D-CED
9	8	102	BCL	O1D-CGD-O2D-CED
16	C	407	PGV	C04-O12-P-O11
16	M	705	PGV	C04-O12-P-O11
13	L	1011	BGL	C3'-C4'-C5'-C6'
9	U	103	BCL	O1D-CGD-O2D-CED
16	L	1008	PGV	O05-C05-C06-O06
9	S	102	BCL	C13-C15-C16-C17
10	4	104	U42	C24-C25-C26-C27
16	C	408	PGV	O01-C02-C03-O11
16	P	104	PGV	O01-C02-C03-O11
9	N	101	BCL	O1A-CGA-O2A-C1
10	4	104	U42	O2-C18-O17-C16
9	5	101	BCL	C16-C17-C18-C20
16	M	706	PGV	C7-C8-C9-C10
10	4	101	U42	C27-C28-C29-C30
10	B	101	U42	C22-C23-C24-C25
10	I	101	U42	C29-C30-C31-C32
16	M	705	PGV	O04-C19-O03-C01
9	D	102	BCL	C3-C5-C6-C7
18	L	1005	BPH	C3-C5-C6-C7
13	H	107	BGL	O2-C1'-C2'-C3'

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Mol	Chain	Res	Type	Atoms
16	M	706	PGV	O03-C01-C02-O01
16	C	407	PGV	C2-C3-C4-C5
9	N	101	BCL	C16-C17-C18-C19
16	M	705	PGV	C20-C21-C22-C23
9	H	101	BCL	C8-C10-C11-C12
10	B	101	U42	O17-C16-C8-C7
10	E	101	U42	C26-C27-C28-C29
16	M	706	PGV	C21-C22-C23-C24
16	M	705	PGV	O02-C1-O01-C02
9	4	102	BCL	C2-C1-O2A-CGA
9	I	102	BCL	C2-C1-O2A-CGA
9	N	101	BCL	C2-C1-O2A-CGA
9	E	102	BCL	C2-C3-C5-C6
9	K	101	BCL	C13-C15-C16-C17
9	4	103	BCL	C11-C12-C13-C14
9	4	103	BCL	C14-C13-C15-C16
9	Q	103	BCL	C11-C12-C13-C14
9	W	101	BCL	C11-C12-C13-C14
9	Q	103	BCL	C15-C16-C17-C18
18	M	702	BPH	C1A-C2A-CAA-CBA
9	O	102	BCL	O1A-CGA-O2A-C1
9	3	101	BCL	C16-C17-C18-C20
9	8	103	BCL	C16-C17-C18-C19
9	F	101	BCL	C16-C17-C18-C20
10	S	101	U42	CAB-CAD-CAJ-CAL
9	D	102	BCL	C10-C11-C12-C13
13	L	1013	BGL	O2-C1'-C2'-C3'
16	L	1006	PGV	C29-C30-C31-C32
9	2	102	BCL	C4C-C3C-CAC-CBC
9	N	101	BCL	C4C-C3C-CAC-CBC
9	Q	103	BCL	C4C-C3C-CAC-CBC
10	E	101	U42	O17-C16-C8-C7
9	6	101	BCL	C15-C16-C17-C18
9	6	102	BCL	C10-C11-C12-C13
9	B	102	BCL	C13-C15-C16-C17
22	h	101	LHG	C7-C8-C9-C10
16	M	706	PGV	C24-C25-C26-C27
9	L	1001	BCL	CBD-CGD-O2D-CED
10	I	101	U42	C26-C27-C28-C29
10	I	101	U42	CBD-CAY-O1-C4
10	U	101	U42	CBC-CAY-O1-C4
10	O	101	U42	C29-C30-C31-C32

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Mol	Chain	Res	Type	Atoms
9	4	103	BCL	C11-C12-C13-C15
9	5	101	BCL	C6-C7-C8-C10
9	6	102	BCL	C11-C12-C13-C15
9	6	102	BCL	C12-C13-C15-C16
9	B	103	BCL	C11-C12-C13-C15
9	D	102	BCL	C11-C12-C13-C15
9	F	101	BCL	C6-C7-C8-C10
9	G	102	BCL	C11-C10-C8-C7
9	H	101	BCL	C12-C13-C15-C16
9	J	101	BCL	C11-C10-C8-C7
9	K	102	BCL	C11-C10-C8-C7
9	L	1001	BCL	C12-C13-C15-C16
9	O	102	BCL	C11-C10-C8-C7
9	S	102	BCL	C11-C12-C13-C15
9	S	103	BCL	C11-C10-C8-C7
9	U	103	BCL	C6-C7-C8-C10
9	U	103	BCL	C11-C12-C13-C15
9	W	101	BCL	C12-C13-C15-C16
18	M	702	BPH	C11-C10-C8-C7
18	M	702	BPH	C12-C13-C15-C16
9	G	102	BCL	C5-C6-C7-C8
11	C	401	U4Z	CAM-CAO-CAP-CAQ
10	8	101	U42	C23-C24-C25-C26
9	G	102	BCL	C2A-CAA-CBA-CGA
9	N	101	BCL	C2A-CAA-CBA-CGA
10	B	101	U42	C23-C24-C25-C26
10	S	101	U42	C29-C30-C31-C32
10	O	101	U42	CBG-CBI-CBL-CBO
10	S	101	U42	CAN-CAM-CAO-CAP
16	M	706	PGV	C30-C31-C32-C33
9	7	101	BCL	C16-C17-C18-C20
18	M	702	BPH	C16-C17-C18-C20
9	K	101	BCL	C8-C10-C11-C12
9	B	103	BCL	CAD-CBD-CGD-O2D
9	I	103	BCL	CAD-CBD-CGD-O2D
9	K	102	BCL	CAD-CBD-CGD-O2D
10	8	101	U42	CAZ-CAW-CBA-CBE
18	L	1005	BPH	CAD-CBD-CGD-O2D
18	M	702	BPH	CAD-CBD-CGD-O2D
10	4	104	U42	C29-C30-C31-C32
9	4	102	BCL	C15-C16-C17-C18
16	C	408	PGV	C2-C3-C4-C5

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Mol	Chain	Res	Type	Atoms
9	I	103	BCL	C4-C3-C5-C6
18	L	1005	BPH	C4-C3-C5-C6
16	M	705	PGV	C25-C26-C27-C28
16	M	705	PGV	C02-C03-O11-P
16	P	104	PGV	O03-C01-C02-C03
16	L	1006	PGV	O01-C02-C03-O11
18	M	702	BPH	C16-C17-C18-C19
9	D	101	BCL	CHA-CBD-CGD-O1D
9	J	101	BCL	CHA-CBD-CGD-O2D
9	R	101	BCL	CHA-CBD-CGD-O1D
9	R	101	BCL	CHA-CBD-CGD-O2D
13	C	409	BGL	C2'-C3'-C4'-C5'
9	0	101	BCL	O1D-CGD-O2D-CED
9	A	101	BCL	O1A-CGA-O2A-C1
18	L	1005	BPH	C15-C16-C17-C18
16	L	1006	PGV	C28-C29-C30-C31
16	L	1007	PGV	O03-C01-C02-O01
10	U	101	U42	C25-C26-C27-C28
16	L	1006	PGV	C15-C16-C17-C18
9	U	102	BCL	O1D-CGD-O2D-CED
9	D	101	BCL	C16-C17-C18-C20
9	2	102	BCL	C4-C3-C5-C6
9	F	101	BCL	C6-C7-C8-C9
9	Q	102	BCL	C14-C13-C15-C16
9	U	103	BCL	C11-C12-C13-C14
18	M	702	BPH	C11-C10-C8-C9
16	P	104	PGV	C21-C22-C23-C24
9	K	101	BCL	O1D-CGD-O2D-CED
9	1	101	BCL	C10-C11-C12-C13
9	N	101	BCL	CBD-CGD-O2D-CED
9	O	103	BCL	C8-C10-C11-C12
18	M	702	BPH	C2C-C3C-CAC-CBC
11	C	401	U4Z	CBI-CBL-CBN-CBM
9	U	103	BCL	C16-C17-C18-C20
16	M	705	PGV	C31-C32-C33-C34
9	8	102	BCL	C2-C1-O2A-CGA
10	I	104	U42	C25-C26-C27-C28
16	L	1008	PGV	C04-O12-P-O11
16	P	103	PGV	C03-O11-P-O12
20	L	1017	PEF	C1-O3P-P-O4P
10	I	104	U42	C26-C27-C28-C29
11	P	102	U4Z	CAT-CAS-CAW-CAZ

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Mol	Chain	Res	Type	Atoms
19	M	704	MQE	CAL-CAE-CAR-CBV
10	4	101	U42	C21-C22-C23-C24
16	M	706	PGV	C03-O11-P-O13
16	P	104	PGV	C03-O11-P-O13
20	L	1017	PEF	C1-O3P-P-O2P
9	B	103	BCL	C16-C17-C18-C19
9	G	102	BCL	C16-C17-C18-C19
16	C	408	PGV	C19-C20-C21-C22
16	L	1006	PGV	C01-C02-C03-O11
16	M	705	PGV	C01-C02-C03-O11
16	C	407	PGV	C6-C7-C8-C9
16	L	1008	PGV	C24-C25-C26-C27
12	D	105	LMT	C4'-C5'-C6'-O6'
9	A	101	BCL	C16-C17-C18-C20
16	L	1008	PGV	C11-C10-C9-C8
9	2	102	BCL	C2C-C3C-CAC-CBC
9	7	101	BCL	C12-C13-C15-C16
9	F	102	BCL	C11-C12-C13-C15
9	I	103	BCL	C2C-C3C-CAC-CBC
9	L	1001	BCL	C3A-C2A-CAA-CBA
9	L	1001	BCL	C11-C10-C8-C7
9	L	1002	BCL	C2C-C3C-CAC-CBC
9	M	701	BCL	C2C-C3C-CAC-CBC
9	S	103	BCL	C6-C7-C8-C10
9	S	103	BCL	C12-C13-C15-C16
9	V	101	BCL	C6-C7-C8-C10
9	W	101	BCL	C11-C10-C8-C7
10	U	101	U42	CAT-CAS-CAW-CBA
16	L	1008	PGV	O01-C02-C03-O11
18	L	1005	BPH	C6-C7-C8-C10
10	0	103	U42	C21-C22-C23-C24
9	5	101	BCL	C5-C6-C7-C8
9	R	101	BCL	CBD-CGD-O2D-CED
10	E	101	U42	CAT-CAX-CAY-O1
10	I	101	U42	CAT-CAX-CAY-O1
10	Q	101	U42	CAT-CAX-CAY-O1
14	C	404	HEC	C1A-C2A-CAA-CBA
14	C	404	HEC	C3A-C2A-CAA-CBA
18	L	1003	BPH	C4C-C3C-CAC-CBC
16	P	103	PGV	O03-C01-C02-O01
16	L	1006	PGV	C7-C8-C9-C10
16	C	408	PGV	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
9	8	103	BCL	C16-C17-C18-C20
9	3	101	BCL	C15-C16-C17-C18
11	3	102	U4Z	CAT-CAS-CAW-CAZ
11	D	103	U4Z	CAT-CAS-CAW-CAZ
11	T	102	U4Z	CAT-CAS-CAW-CAZ
9	2	102	BCL	C2-C3-C5-C6
9	E	102	BCL	C8-C10-C11-C12
9	5	101	BCL	C6-C7-C8-C9
9	5	101	BCL	C11-C10-C8-C9
9	D	102	BCL	C11-C10-C8-C9
9	F	101	BCL	C11-C12-C13-C14
9	F	102	BCL	C6-C7-C8-C9
9	F	102	BCL	C11-C10-C8-C9
9	F	102	BCL	C11-C12-C13-C14
9	H	101	BCL	C11-C10-C8-C9
9	J	101	BCL	C11-C10-C8-C9
9	U	103	BCL	C6-C7-C8-C9
9	W	101	BCL	C11-C10-C8-C9
18	M	702	BPH	C14-C13-C15-C16
9	F	102	BCL	C3-C5-C6-C7
9	O	102	BCL	C3-C5-C6-C7
13	3	103	BGL	O2-C1'-C2'-C3'
16	M	706	PGV	C3-C4-C5-C6
9	M	701	BCL	C2A-CAA-CBA-CGA
10	4	104	U42	O17-C18-C19-C20
10	Q	101	U42	C27-C28-C29-C30
12	T	103	LMT	C3-C4-C5-C6
16	P	103	PGV	C20-C21-C22-C23
11	P	102	U4Z	CAT-CAS-CAW-CBA
9	N	101	BCL	O1D-CGD-O2D-CED
13	F	104	BGL	C2'-C3'-C4'-C5'
9	0	101	BCL	C2-C1-O2A-CGA
9	6	101	BCL	C2-C1-O2A-CGA
9	7	101	BCL	C2-C1-O2A-CGA
9	F	102	BCL	C2-C1-O2A-CGA
9	L	1002	BCL	C2-C1-O2A-CGA
9	M	701	BCL	C2-C1-O2A-CGA
9	R	101	BCL	C2-C1-O2A-CGA
9	U	103	BCL	C2-C1-O2A-CGA
16	L	1006	PGV	C2-C1-O01-C02
9	B	102	BCL	CBD-CGD-O2D-CED
10	O	101	U42	C22-C23-C24-C25

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Mol	Chain	Res	Type	Atoms
9	M	701	BCL	CBA-CGA-O2A-C1
9	I	103	BCL	C16-C17-C18-C19
10	8	101	U42	CAB-CAD-CAJ-CAL
10	E	101	U42	CAH-CAD-CAJ-CAL
9	I	103	BCL	C2-C3-C5-C6
19	M	704	MQE	CAL-CAE-CAR-CBD
14	C	402	HEC	C2A-CAA-CBA-CGA
16	L	1006	PGV	C03-O11-P-O12
16	L	1006	PGV	C04-O12-P-O11
16	L	1007	PGV	C04-O12-P-O11
16	M	706	PGV	C04-O12-P-O11
16	P	104	PGV	C04-O12-P-O11
20	L	1017	PEF	C4-O4P-P-O3P
10	4	104	U42	C26-C27-C28-C29
11	J	102	U4Z	CAT-CAS-CAW-CAZ
9	F	101	BCL	C12-C13-C15-C16
9	L	1002	BCL	C12-C13-C15-C16
9	Q	102	BCL	C6-C7-C8-C10
16	L	1006	PGV	C20-C21-C22-C23
9	2	102	BCL	C6-C7-C8-C9
9	7	101	BCL	C11-C10-C8-C9
9	7	101	BCL	C14-C13-C15-C16
9	B	103	BCL	C11-C12-C13-C14
9	J	101	BCL	C14-C13-C15-C16
9	L	1001	BCL	C11-C10-C8-C9
9	Q	103	BCL	C6-C7-C8-C9
9	V	101	BCL	C14-C13-C15-C16
9	A	101	BCL	C16-C17-C18-C19
9	P	101	BCL	C16-C17-C18-C20
9	U	103	BCL	C16-C17-C18-C19
16	L	1006	PGV	O02-C1-O01-C02
16	M	706	PGV	C19-C20-C21-C22
10	Q	101	U42	C23-C24-C25-C26
9	K	102	BCL	CAA-CBA-CGA-O2A
9	7	101	BCL	C5-C6-C7-C8
9	L	1001	BCL	C15-C16-C17-C18
13	L	1015	BGL	C2'-C1'-O2-C2
19	M	704	MQE	CAK-CAF-CAT-CBW
9	5	101	BCL	CBD-CGD-O2D-CED
18	L	1005	BPH	C2-C3-C5-C6
16	C	407	PGV	C11-C10-C9-C8
9	M	701	BCL	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
9	5	101	BCL	O1D-CGD-O2D-CED
9	F	102	BCL	C2A-CAA-CBA-CGA
9	B	103	BCL	C16-C17-C18-C20
10	E	101	U42	CAM-CAO-CAP-CAQ
19	L	1004	MQE	CAR-CAE-CAL-CBF
19	M	704	MQE	CAR-CAE-CAL-CBF
9	E	102	BCL	O1A-CGA-O2A-C1
16	M	705	PGV	C28-C29-C30-C31
9	4	102	BCL	C10-C11-C12-C13
9	8	102	BCL	C5-C6-C7-C8
16	L	1007	PGV	O01-C02-C03-O11
10	0	103	U42	CBA-CBE-CBF-CBH
12	T	103	LMT	C6-C7-C8-C9
16	M	705	PGV	C23-C24-C25-C26
9	2	102	BCL	C2-C1-O2A-CGA
9	D	101	BCL	C2-C1-O2A-CGA
9	K	101	BCL	C2-C1-O2A-CGA
9	Q	102	BCL	C2-C1-O2A-CGA
13	F	104	BGL	C4'-C5'-C6'-C7'
9	B	102	BCL	C5-C6-C7-C8
9	R	101	BCL	O1D-CGD-O2D-CED
13	L	1012	BGL	C3'-C4'-C5'-C6'
16	P	103	PGV	C11-C10-C9-C8
11	D	103	U4Z	CAT-CAS-CAW-CBA
11	T	102	U4Z	CAT-CAS-CAW-CBA
9	2	101	BCL	C11-C10-C8-C9
9	2	102	BCL	C11-C12-C13-C14
9	P	101	BCL	C6-C7-C8-C9
9	P	101	BCL	C11-C10-C8-C9
18	M	702	BPH	C6-C7-C8-C9
9	6	102	BCL	C16-C17-C18-C19
10	S	101	U42	C22-C23-C24-C25
16	P	104	PGV	C6-C7-C8-C9
10	B	101	U42	CAT-CAX-CAY-CBD
16	L	1008	PGV	O12-C04-C05-C06
9	Q	103	BCL	O1A-CGA-O2A-C1
9	I	103	BCL	C16-C17-C18-C20
9	P	101	BCL	C16-C17-C18-C19
18	L	1005	BPH	O2A-C1-C2-C3
16	P	103	PGV	C7-C8-C9-C10
10	4	104	U42	O17-C16-C8-O14
10	0	103	U42	C5-C4-O1-CAY

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Mol	Chain	Res	Type	Atoms
10	E	101	U42	C5-C4-O1-CAY
9	5	101	BCL	C1A-C2A-CAA-CBA
9	9	102	BCL	C1A-C2A-CAA-CBA
9	O	102	BCL	C1A-C2A-CAA-CBA
9	U	103	BCL	C1A-C2A-CAA-CBA
12	T	103	LMT	C5-C6-C7-C8
16	L	1008	PGV	C5-C6-C7-C8
9	G	102	BCL	C6-C7-C8-C10
9	O	103	BCL	C11-C10-C8-C7
9	R	101	BCL	C6-C7-C8-C10
9	R	101	BCL	C11-C10-C8-C7
9	S	102	BCL	C6-C7-C8-C10
18	L	1005	BPH	C11-C12-C13-C15
16	M	705	PGV	C19-C20-C21-C22
9	Q	103	BCL	CBA-CGA-O2A-C1
9	H	101	BCL	C15-C16-C17-C18
9	P	101	BCL	C8-C10-C11-C12
9	T	101	BCL	C8-C10-C11-C12
9	E	102	BCL	C5-C6-C7-C8
10	U	101	U42	C20-C21-C22-C23
9	3	101	BCL	C8-C10-C11-C12
13	L	1015	BGL	C3'-C4'-C5'-C6'
9	M	701	BCL	C4-C3-C5-C6
9	W	101	BCL	C4-C3-C5-C6
19	L	1004	MQE	CAJ-CAD-CAQ-CBU
11	J	102	U4Z	CAT-CAS-CAW-CBA
12	D	105	LMT	C5-C6-C7-C8
20	L	1017	PEF	C12-C13-C14-C15
9	B	102	BCL	O1D-CGD-O2D-CED
9	8	103	BCL	C8-C10-C11-C12
16	C	407	PGV	C24-C25-C26-C27
9	E	102	BCL	CBA-CGA-O2A-C1
11	F	103	U4Z	CAT-CAS-CAW-CAZ
11	V	102	U4Z	CAT-CAS-CAW-CAZ
9	5	101	BCL	C2C-C3C-CAC-CBC
10	8	101	U42	O17-C18-C19-C20
12	T	103	LMT	C2-C3-C4-C5
10	E	101	U42	CAB-CAD-CAJ-CAL
9	L	1001	BCL	O1D-CGD-O2D-CED
16	P	103	PGV	C5-C6-C7-C8
10	O	101	U42	C27-C28-C29-C30
11	A	102	U4Z	CAT-CAS-CAW-CAZ

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Mol	Chain	Res	Type	Atoms
9	F	101	BCL	C4C-C3C-CAC-CBC
9	K	101	BCL	C4C-C3C-CAC-CBC
9	T	101	BCL	C4C-C3C-CAC-CBC
18	L	1005	BPH	C5-C6-C7-C8
11	3	102	U4Z	CAT-CAS-CAW-CBA
9	0	102	BCL	C10-C11-C12-C13
9	K	101	BCL	C15-C16-C17-C18
16	C	407	PGV	O01-C02-C03-O11
22	h	101	LHG	C17-C18-C19-C20
9	1	101	BCL	C2A-CAA-CBA-CGA
9	A	101	BCL	C2A-CAA-CBA-CGA
9	S	103	BCL	C2A-CAA-CBA-CGA
10	E	101	U42	C23-C24-C25-C26
16	M	705	PGV	C22-C23-C24-C25
11	S	104	U4Z	CAW-CAS-CAT-CAX
16	L	1006	PGV	C25-C26-C27-C28
16	L	1006	PGV	C30-C31-C32-C33
9	9	102	BCL	C10-C11-C12-C13
14	C	402	HEC	CAD-CBD-CGD-O2D
16	M	705	PGV	C27-C28-C29-C30
9	F	102	BCL	C4-C3-C5-C6
11	5	102	U4Z	CAT-CAS-CAW-CAZ
9	M	701	BCL	C2-C3-C5-C6
11	V	102	U4Z	CAT-CAS-CAW-CBA
10	B	101	U42	C28-C29-C30-C31
9	S	103	BCL	C16-C17-C18-C19
9	3	101	BCL	C14-C13-C15-C16
9	F	101	BCL	C14-C13-C15-C16
9	L	1002	BCL	C14-C13-C15-C16
9	R	101	BCL	C6-C7-C8-C9
9	R	101	BCL	C11-C10-C8-C9
9	S	103	BCL	C14-C13-C15-C16
13	L	1015	BGL	C4'-C5'-C6'-C7'
16	L	1008	PGV	C27-C28-C29-C30
9	5	101	BCL	C3A-C2A-CAA-CBA
9	9	102	BCL	C3A-C2A-CAA-CBA
9	O	102	BCL	C3A-C2A-CAA-CBA
10	B	101	U42	C29-C30-C31-C32
9	E	102	BCL	CAD-CBD-CGD-O2D
16	L	1008	PGV	O01-C1-C2-C3
16	M	706	PGV	O03-C19-C20-C21
9	L	1002	BCL	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
9	4	102	BCL	C4-C3-C5-C6
9	4	102	BCL	C3-C5-C6-C7
9	W	101	BCL	C2-C3-C5-C6
11	5	102	U4Z	CAT-CAS-CAW-CBA
11	A	102	U4Z	CAT-CAS-CAW-CBA
11	F	103	U4Z	CAT-CAS-CAW-CBA
19	L	1004	MQE	CAJ-CAD-CAQ-CBE
19	L	1004	MQE	CAK-CAF-CAT-CBG
9	8	103	BCL	CAA-CBA-CGA-O2A
16	L	1007	PGV	C9-C10-C11-C12
16	P	104	PGV	C9-C10-C11-C12
16	C	408	PGV	C12-C13-C14-C15
12	1	103	LMT	C1-C2-C3-C4
10	B	101	U42	C21-C22-C23-C24
9	2	101	BCL	O2A-C1-C2-C3
10	E	101	U42	C22-C23-C24-C25
9	2	101	BCL	CAA-CBA-CGA-O2A
10	4	104	U42	C28-C29-C30-C31
9	1	101	BCL	CHA-CBD-CGD-O2D
9	3	101	BCL	CHA-CBD-CGD-O1D
9	3	101	BCL	CHA-CBD-CGD-O2D
9	5	101	BCL	CHA-CBD-CGD-O1D
9	5	101	BCL	CHA-CBD-CGD-O2D
9	7	101	BCL	CHA-CBD-CGD-O2D
9	9	102	BCL	CHA-CBD-CGD-O1D
9	9	102	BCL	CHA-CBD-CGD-O2D
9	D	101	BCL	CHA-CBD-CGD-O2D
9	F	101	BCL	CHA-CBD-CGD-O1D
9	F	101	BCL	CHA-CBD-CGD-O2D
9	H	101	BCL	CHA-CBD-CGD-O1D
9	H	101	BCL	CHA-CBD-CGD-O2D
9	I	102	BCL	CHA-CBD-CGD-O1D
9	I	102	BCL	CHA-CBD-CGD-O2D
9	M	701	BCL	CHA-CBD-CGD-O2D
9	N	101	BCL	CHA-CBD-CGD-O1D
9	N	101	BCL	CHA-CBD-CGD-O2D
9	T	101	BCL	CHA-CBD-CGD-O1D
9	T	101	BCL	CHA-CBD-CGD-O2D
16	C	408	PGV	O01-C1-C2-C3
9	F	102	BCL	C2-C3-C5-C6
9	W	102	BCL	CAA-CBA-CGA-O2A
16	M	705	PGV	C9-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
16	M	706	PGV	C22-C23-C24-C25
9	N	101	BCL	C4-C3-C5-C6
9	4	102	BCL	C2-C3-C5-C6
9	M	701	BCL	C12-C13-C15-C16
9	Q	103	BCL	C11-C12-C13-C15
19	M	704	MQE	CAK-CAF-CAT-CBG
9	S	102	BCL	CAA-CBA-CGA-O2A
9	U	102	BCL	CAA-CBA-CGA-O2A
9	S	102	BCL	C6-C7-C8-C9
19	M	704	MQE	CAW-CAG-CAM-CBG
14	C	402	HEC	CAD-CBD-CGD-O1D
16	M	705	PGV	O01-C1-C2-C3
9	4	102	BCL	C16-C17-C18-C19
13	H	107	BGL	O5-C5-C6-O6
9	E	102	BCL	C1A-C2A-CAA-CBA
9	F	101	BCL	C1A-C2A-CAA-CBA
9	S	102	BCL	C1A-C2A-CAA-CBA
10	S	101	U42	C27-C28-C29-C30
9	I	103	BCL	C2-C1-O2A-CGA
9	0	102	BCL	C8-C10-C11-C12
9	2	101	BCL	CAA-CBA-CGA-O1A
9	0	102	BCL	C16-C17-C18-C20
16	P	103	PGV	O02-C1-O01-C02
16	L	1008	PGV	O02-C1-C2-C3
16	M	706	PGV	O04-C19-C20-C21
10	O	101	U42	C24-C25-C26-C27
9	F	102	BCL	C10-C11-C12-C13
16	M	706	PGV	C04-O12-P-O13
16	C	408	PGV	O02-C1-C2-C3
16	M	705	PGV	O02-C1-C2-C3
10	U	101	U42	CAU-CAR-CAV-CBB
16	P	104	PGV	C20-C21-C22-C23
9	W	102	BCL	CAA-CBA-CGA-O1A
16	L	1007	PGV	C31-C32-C33-C34
9	W	101	BCL	C16-C17-C18-C20
9	D	102	BCL	C2A-CAA-CBA-CGA
13	Y	101	BGL	C4'-C5'-C6'-C7'
10	8	101	U42	C27-C28-C29-C30
9	8	103	BCL	CAA-CBA-CGA-O1A
19	L	1004	MQE	CAK-CAF-CAT-CBW
9	A	101	BCL	CAD-CBD-CGD-O1D
9	H	101	BCL	CAD-CBD-CGD-O1D

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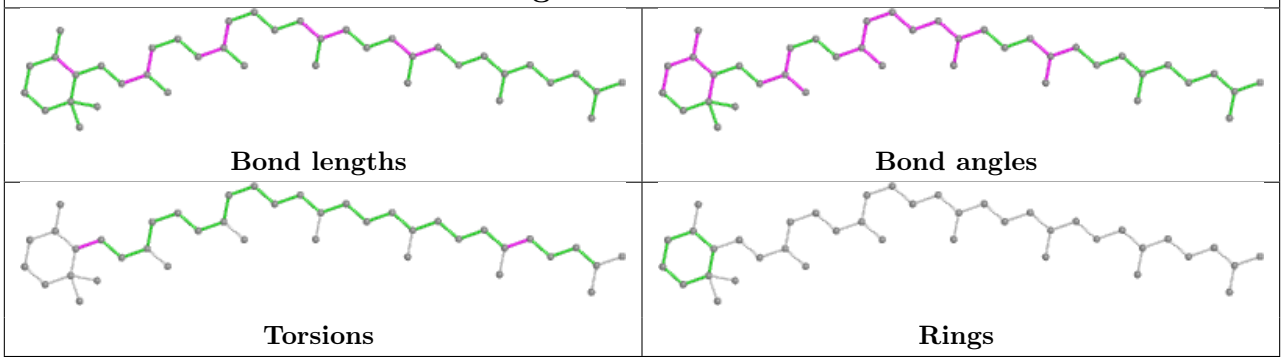
Mol	Chain	Res	Type	Atoms
20	L	1017	PEF	O3-C30-C31-C32
9	6	102	BCL	C6-C7-C8-C9
9	8	102	BCL	C6-C7-C8-C9
14	C	402	HEC	CAA-CBA-CGA-O2A
16	M	705	PGV	C13-C14-C15-C16
9	6	102	BCL	C3A-C2A-CAA-CBA
9	E	102	BCL	C3A-C2A-CAA-CBA
9	F	102	BCL	C6-C7-C8-C10
9	L	1001	BCL	C2C-C3C-CAC-CBC
9	T	101	BCL	C12-C13-C15-C16
9	S	102	BCL	CAA-CBA-CGA-O1A
10	Q	101	U42	O14-C4-O1-CAY
12	T	103	LMT	C2-C1-O1'-C1'
9	I	102	BCL	C13-C15-C16-C17
11	C	401	U4Z	CAW-CAS-CAT-CAX
11	H	102	U4Z	CAW-CAS-CAT-CAX
9	O	103	BCL	CAA-CBA-CGA-O2A
9	O	102	BCL	C8-C10-C11-C12
9	R	101	BCL	C13-C15-C16-C17
9	U	102	BCL	CAA-CBA-CGA-O1A
14	C	402	HEC	CAA-CBA-CGA-O1A
9	K	101	BCL	C10-C11-C12-C13
9	Q	102	BCL	C10-C11-C12-C13
10	U	101	U42	C26-C27-C28-C29
9	D	101	BCL	CAA-CBA-CGA-O2A

There are no ring outliers.

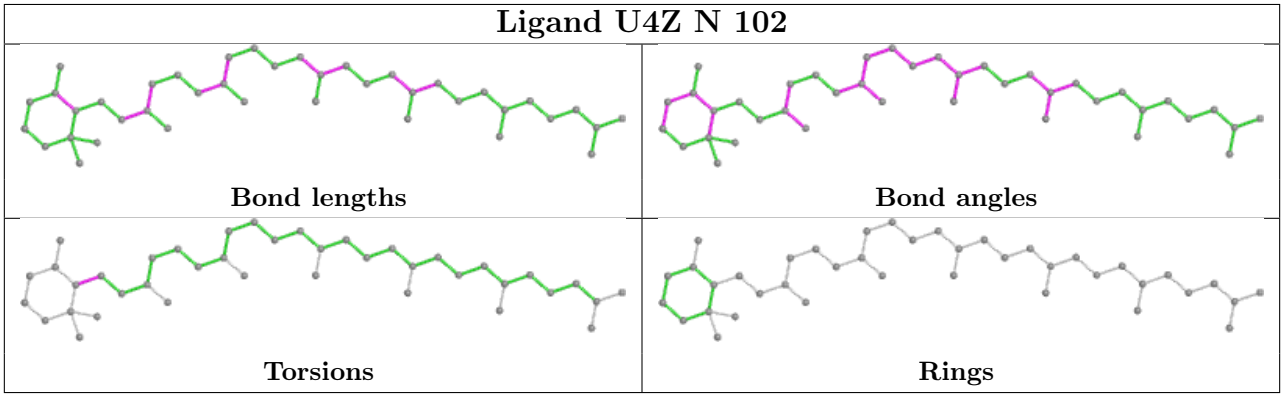
No monomer is involved in short contacts.

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.

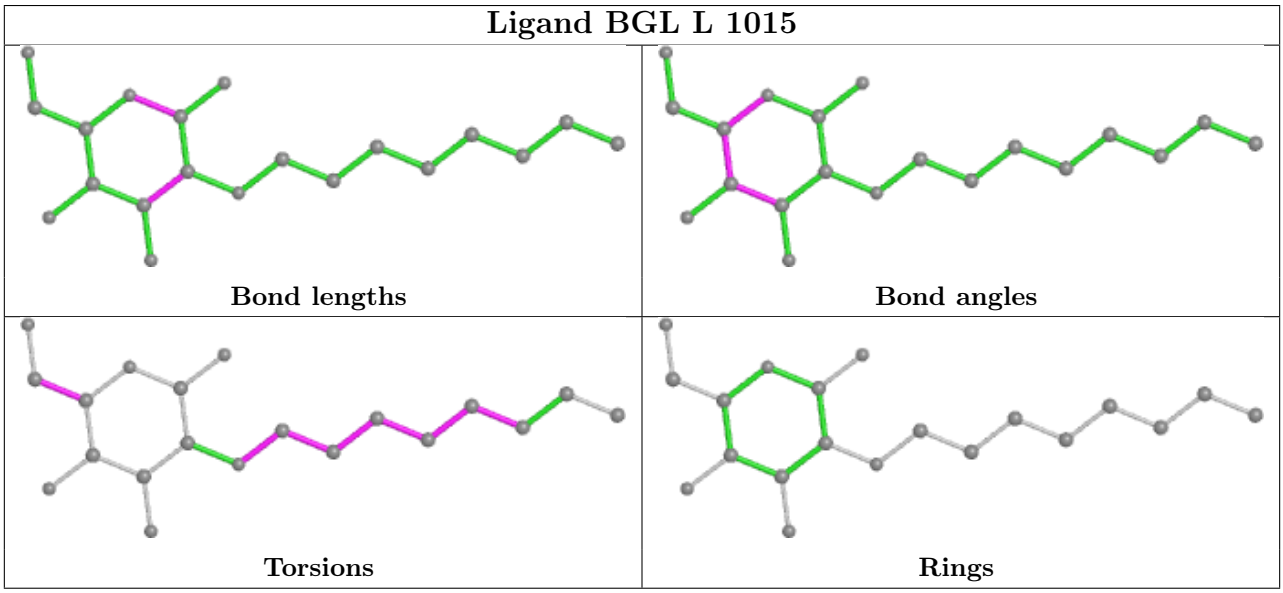
Ligand U4Z 1 102



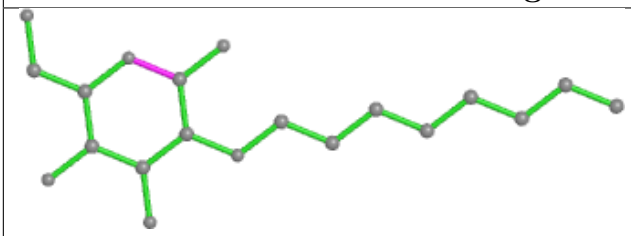
Ligand U4Z N 102



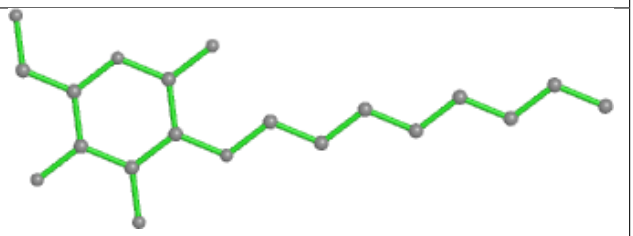
Ligand BGL L 1015



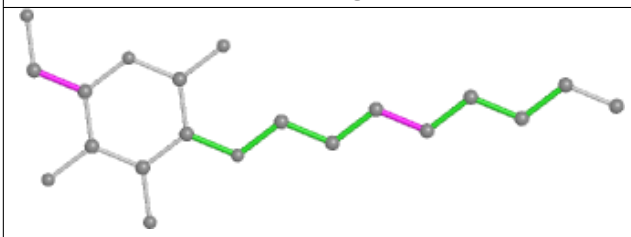
Ligand BGL C 410



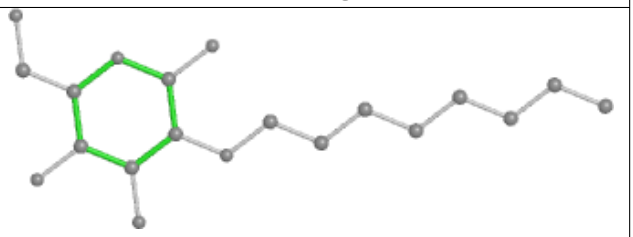
Bond lengths



Bond angles

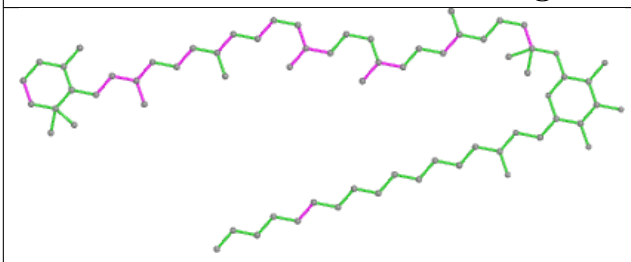


Torsions



Rings

Ligand U42 0 103



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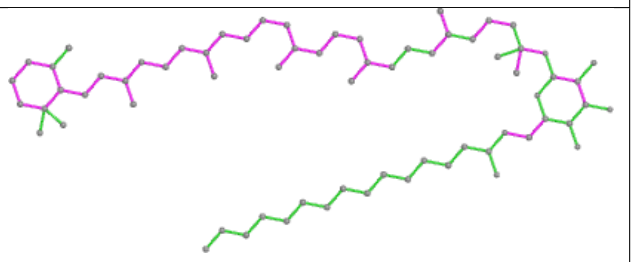
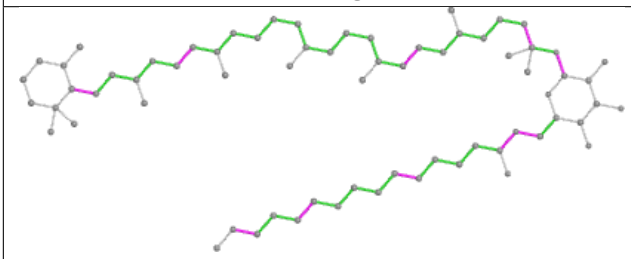
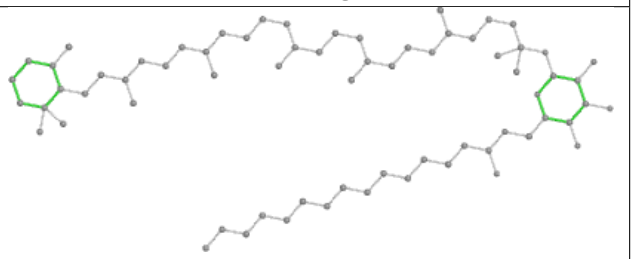


Bond angles

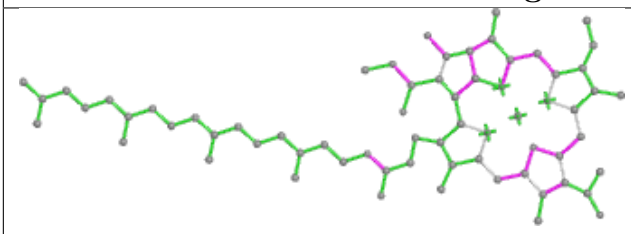


Torsions

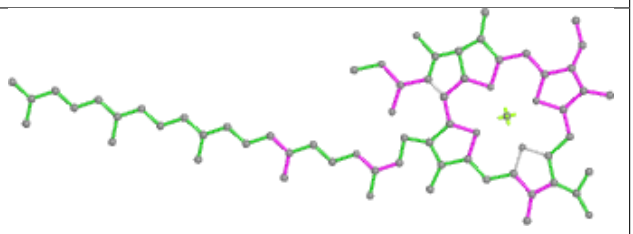


Rings

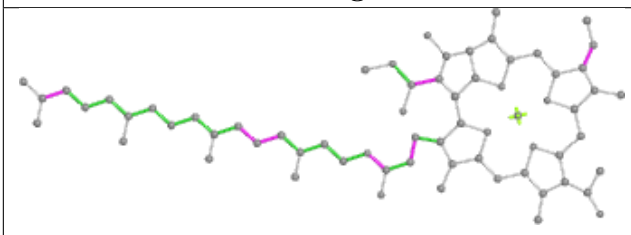
Ligand BCL A 101



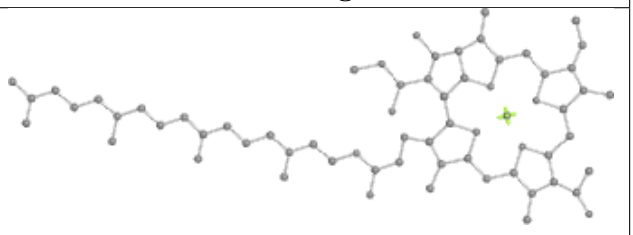
Bond lengths



Bond angles

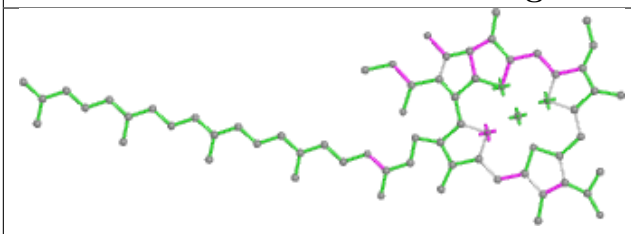


Torsions

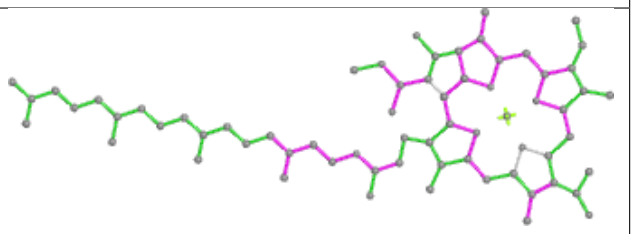


Rings

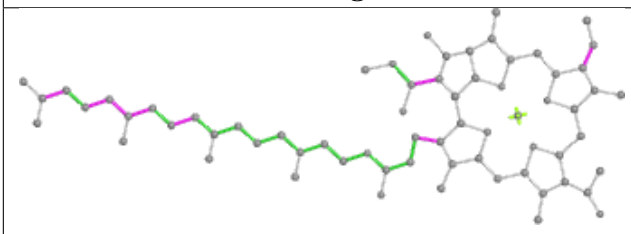
Ligand BCL T 101



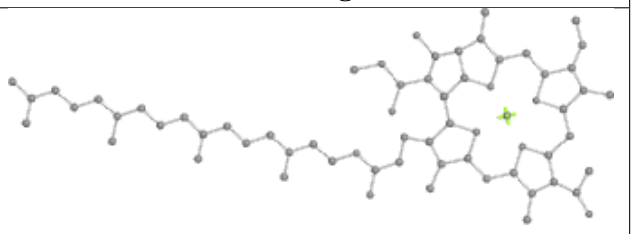
Bond lengths



Bond angles

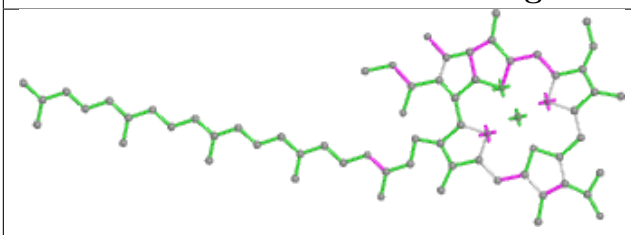


Torsions

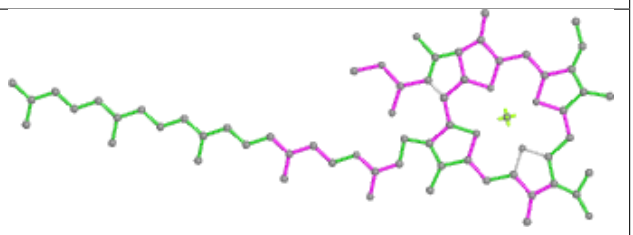


Rings

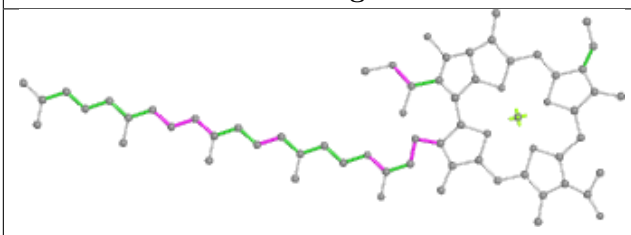
Ligand BCL O 102



Bond lengths



Bond angles



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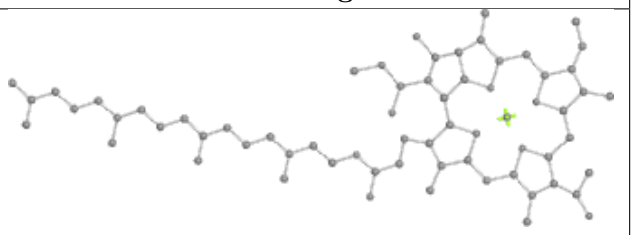
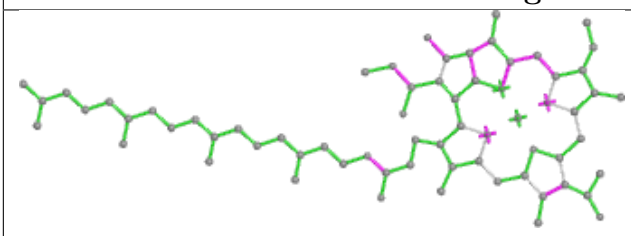
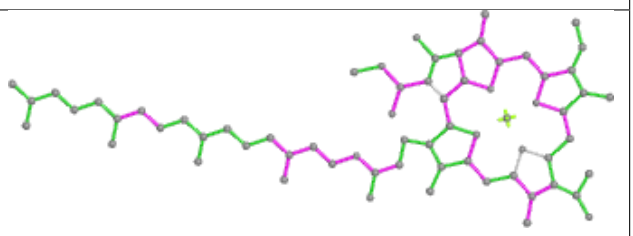


Rings

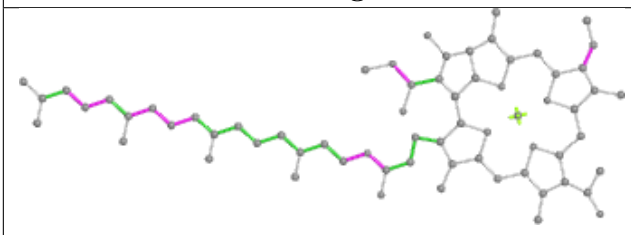
Ligand BCL K 101



Bond lengths



Bond angles



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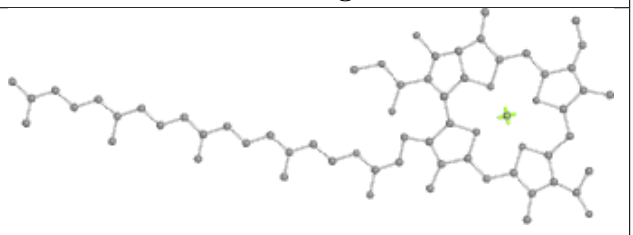
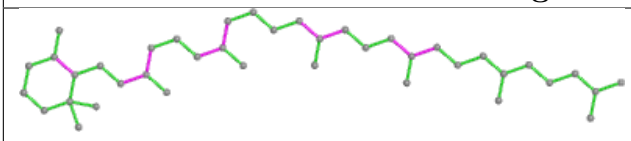
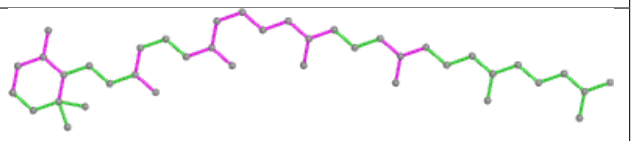


Rings

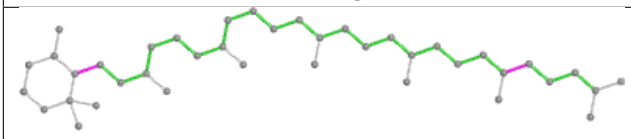
Ligand U4Z J 102



Bond lengths



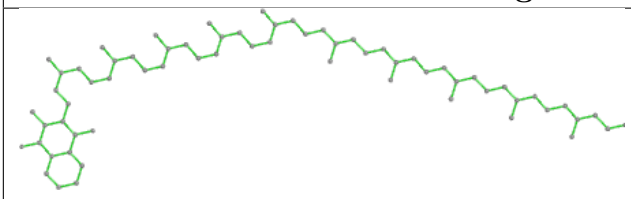
Bond angles



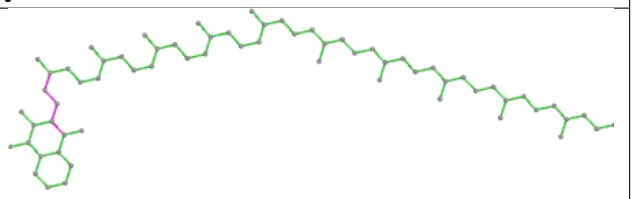
Torsions

Rings

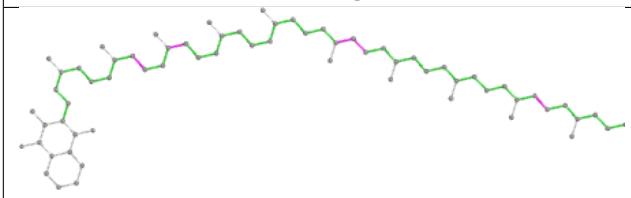
Ligand MQE M 704



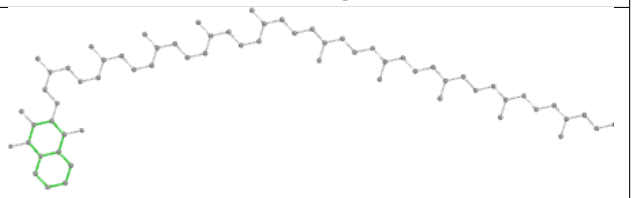
Bond lengths



Bond angles

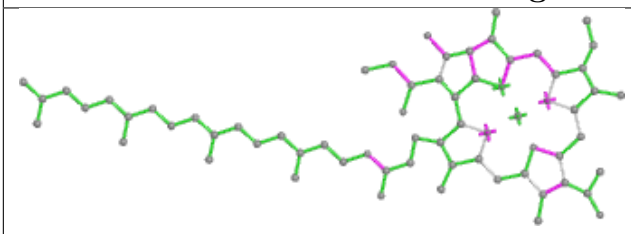


Torsions

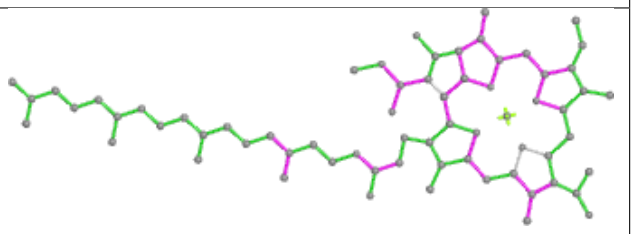


Rings

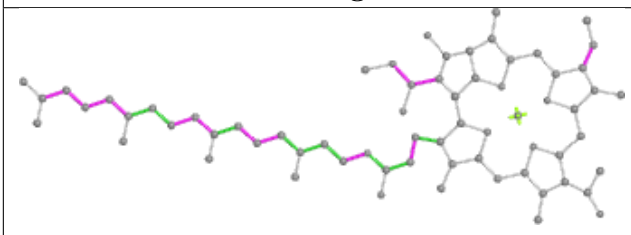
Ligand BCL 7 101



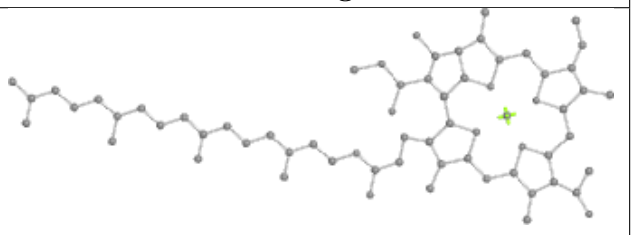
Bond lengths



Bond angles

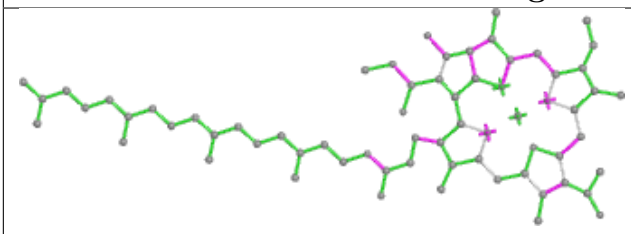


Torsions

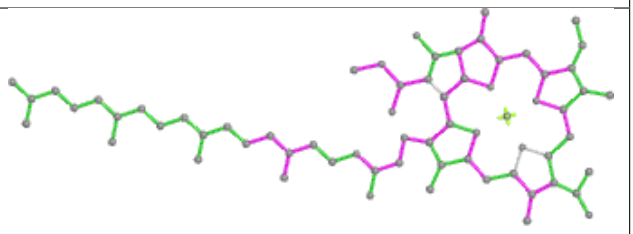


Rings

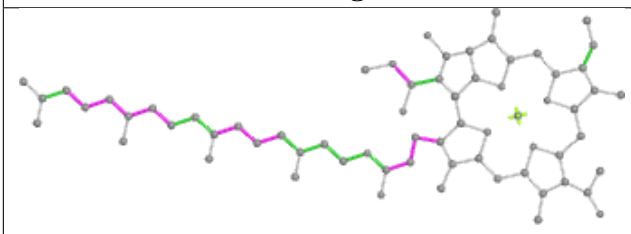
Ligand BCL S 102



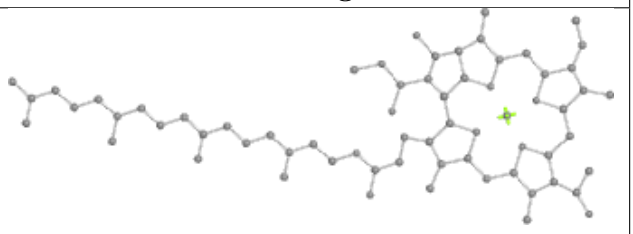
Bond lengths



Bond angles

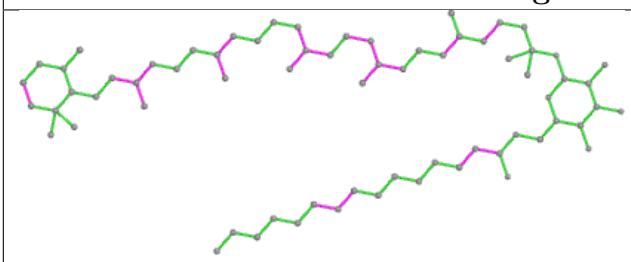


Torsions

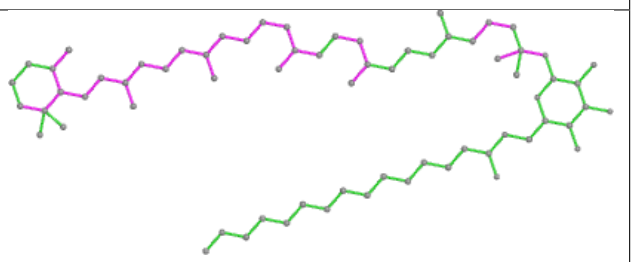


Rings

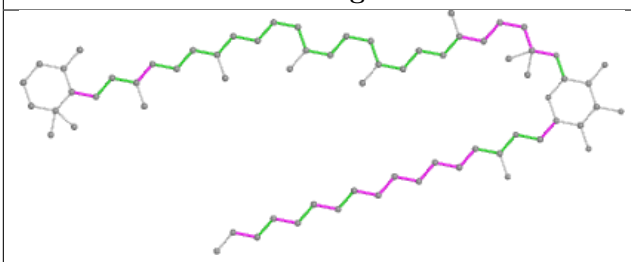
Ligand U42 S 101



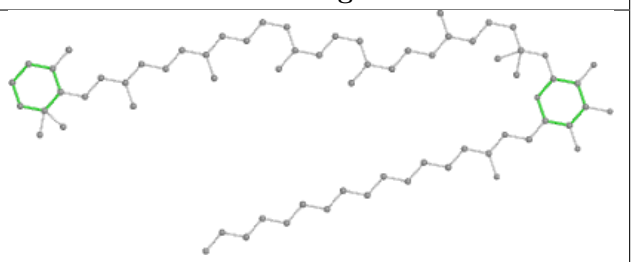
Bond lengths



Bond angles

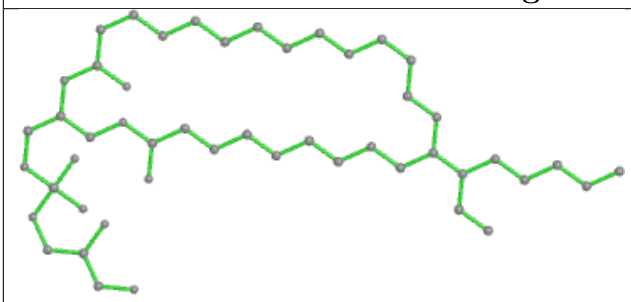


Torsions

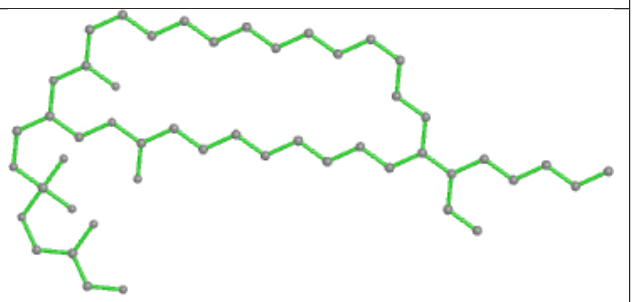


Rings

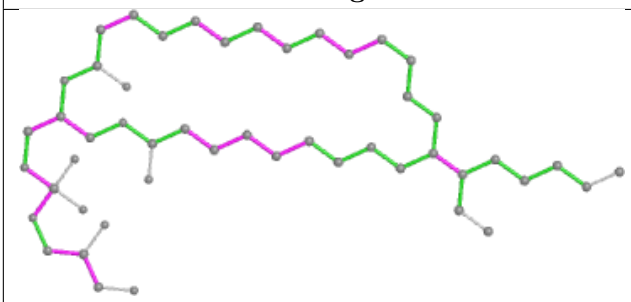
Ligand PGV P 104



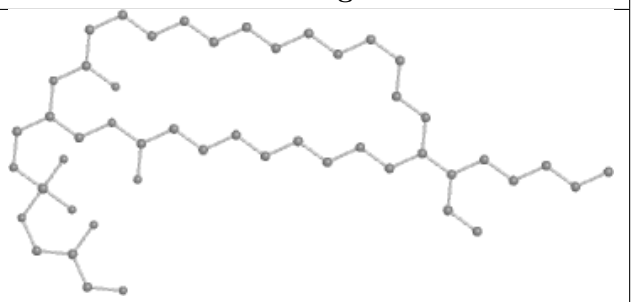
Bond lengths



Bond angles

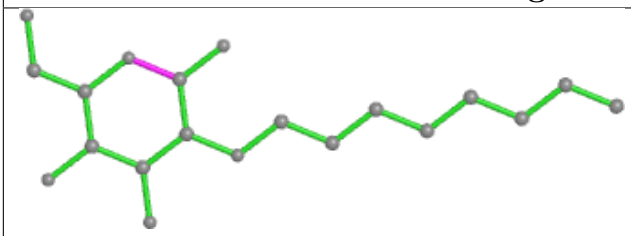


Torsions

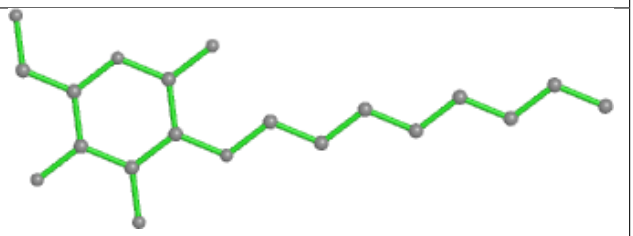


Rings

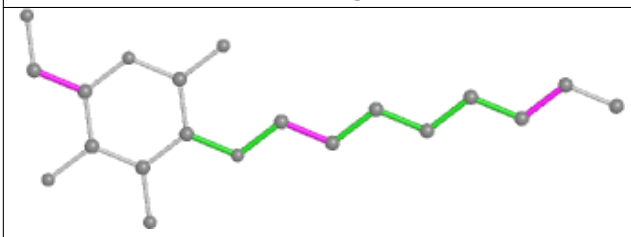
Ligand BGL 3 103



Bond lengths



Bond angles



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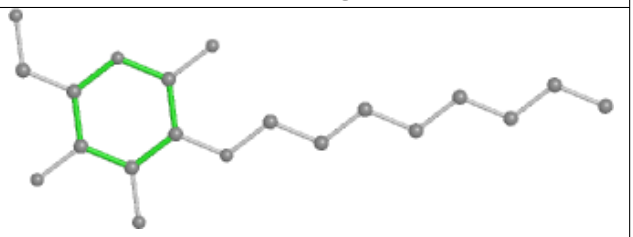
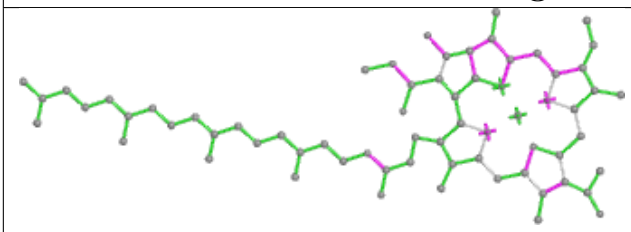
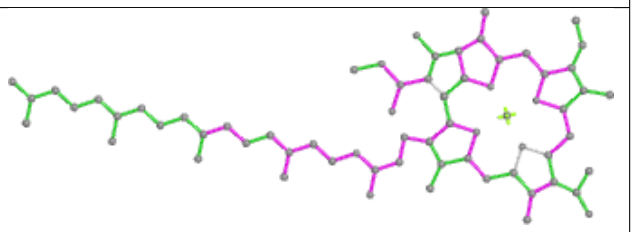


Rings

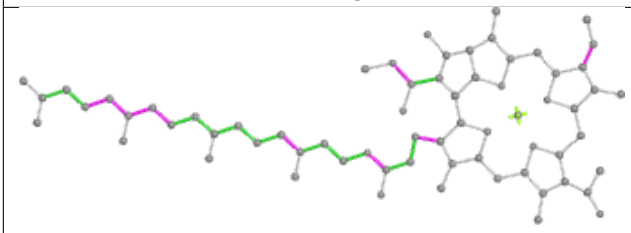
Ligand BCL 4 103



Bond lengths



Bond angles



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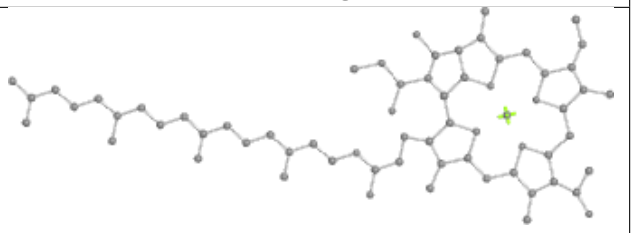
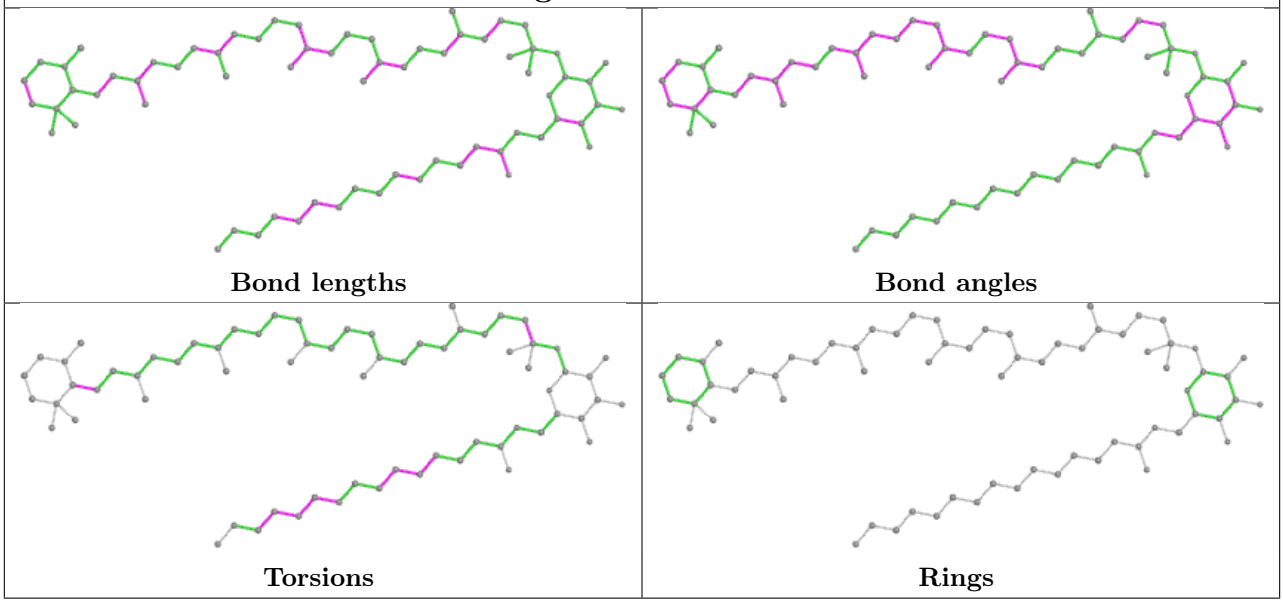
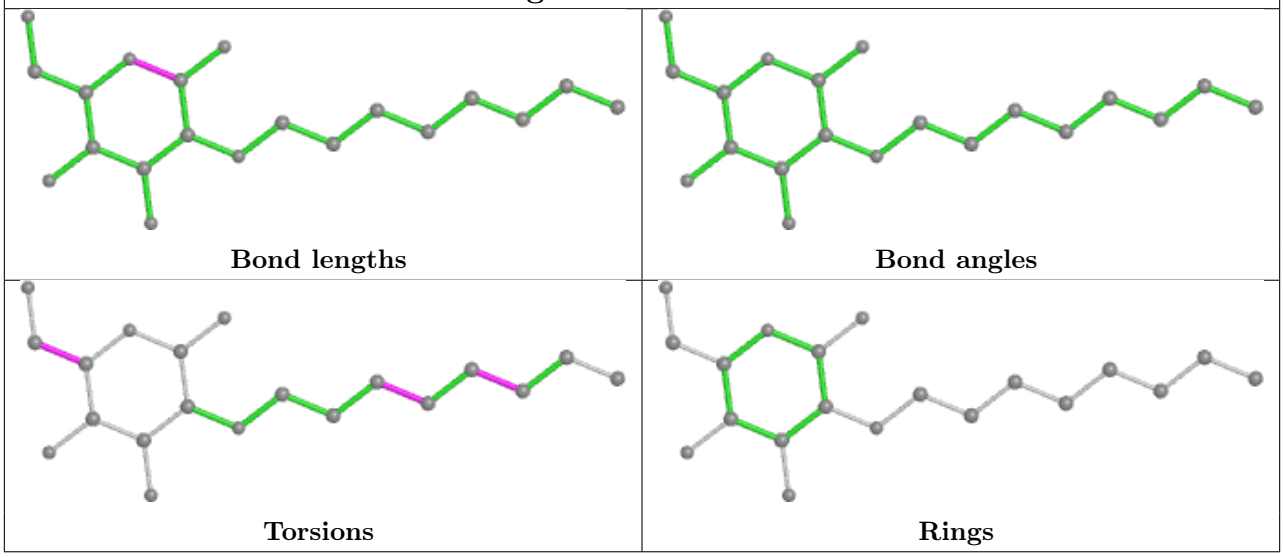


Rings

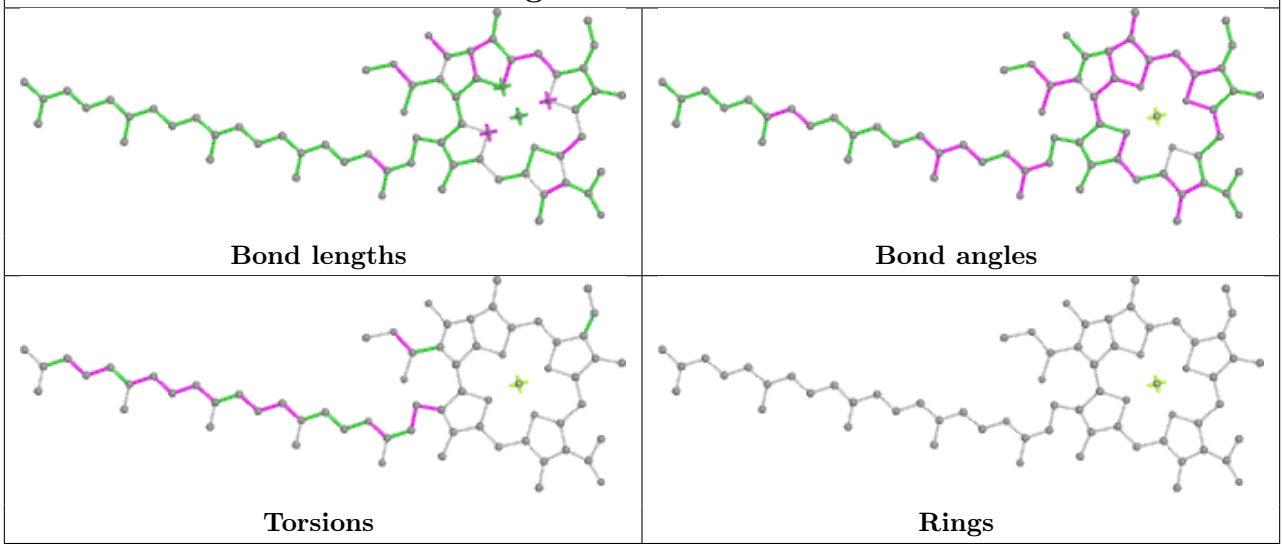
Ligand U42 4 101



Ligand BGL F 104

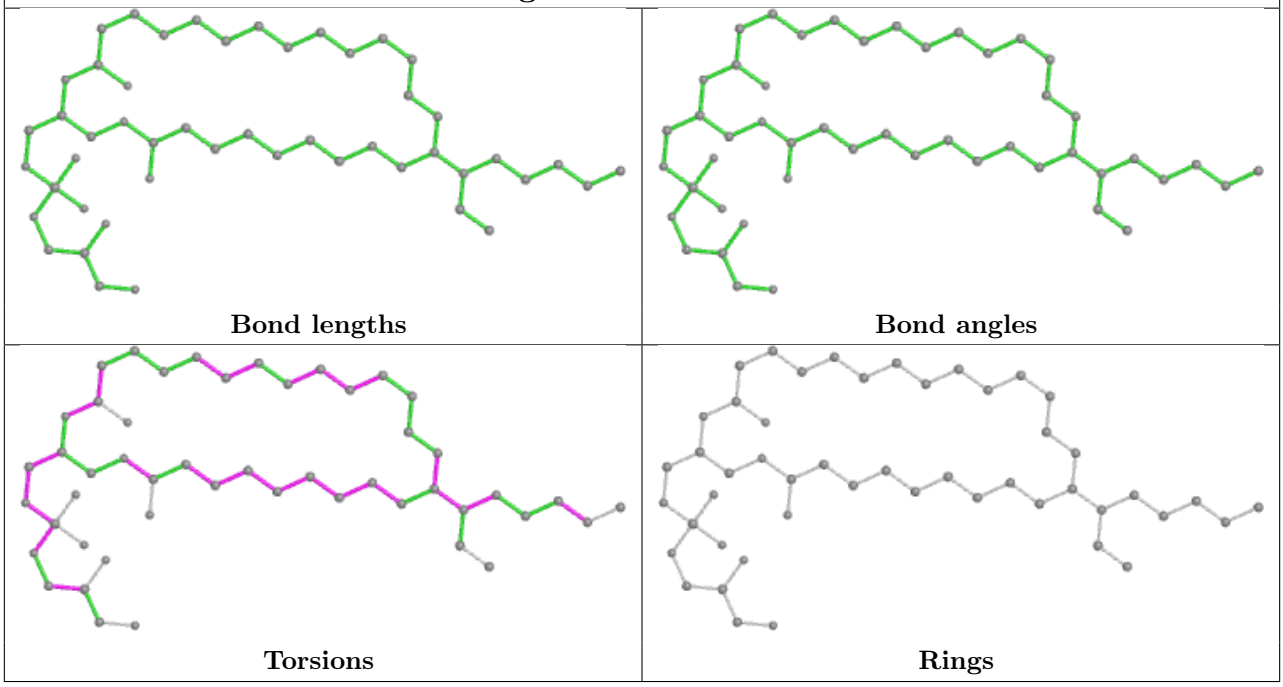


Ligand BCL D 102

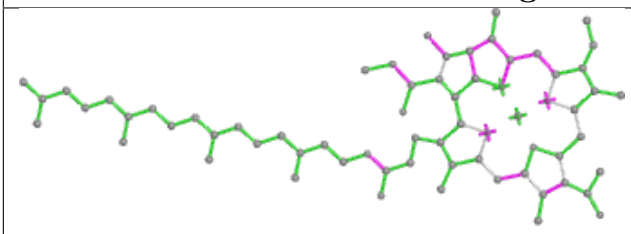


Ligand U4Z V 102

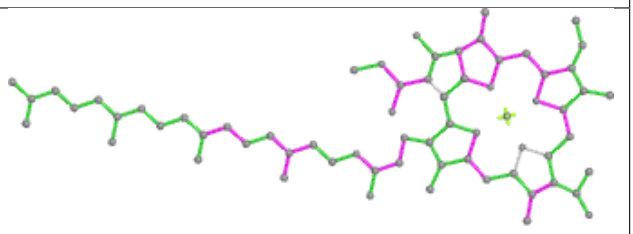
Ligand PGV M 705



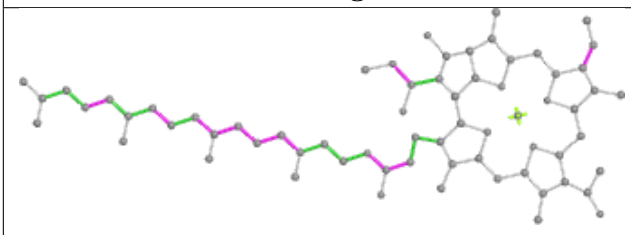
Ligand BCL W 102



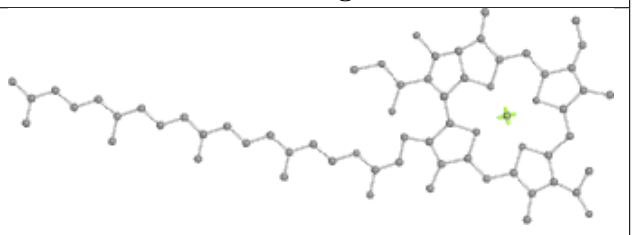
Bond lengths



Bond angles

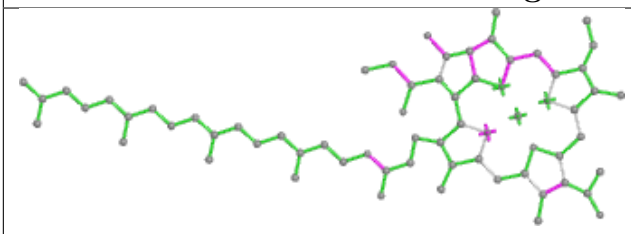


Torsions

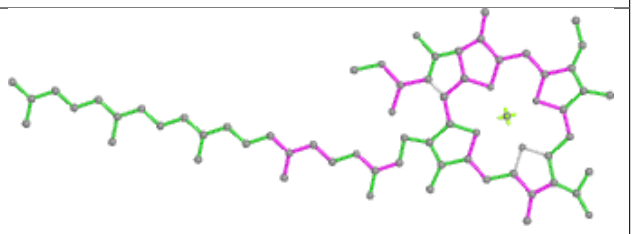


Rings

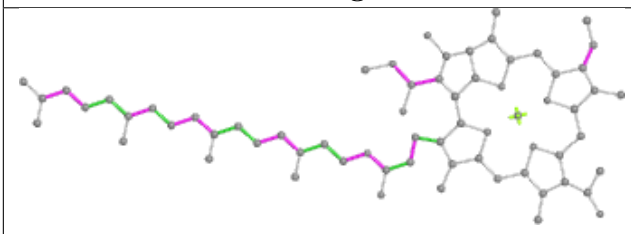
Ligand BCL N 101



Bond lengths



Bond angles



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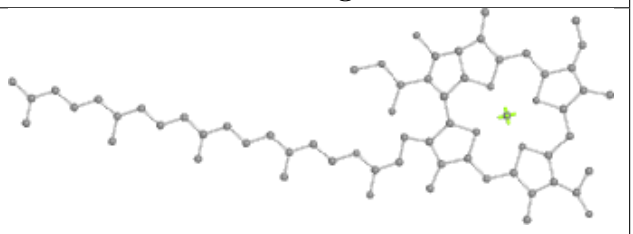
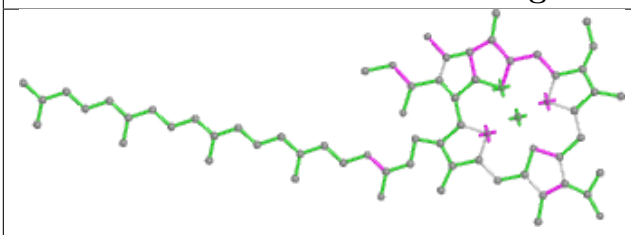
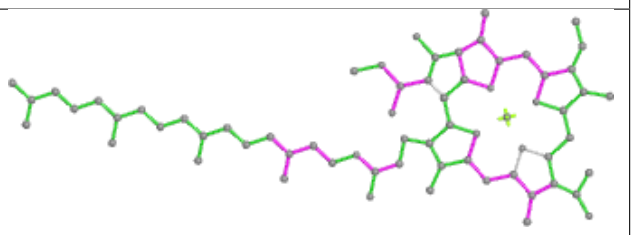


Rings

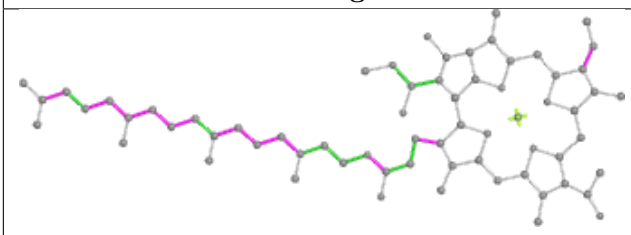
Ligand BCL 6 102



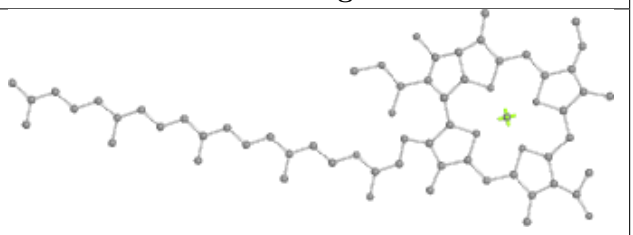
Bond lengths



Bond angles

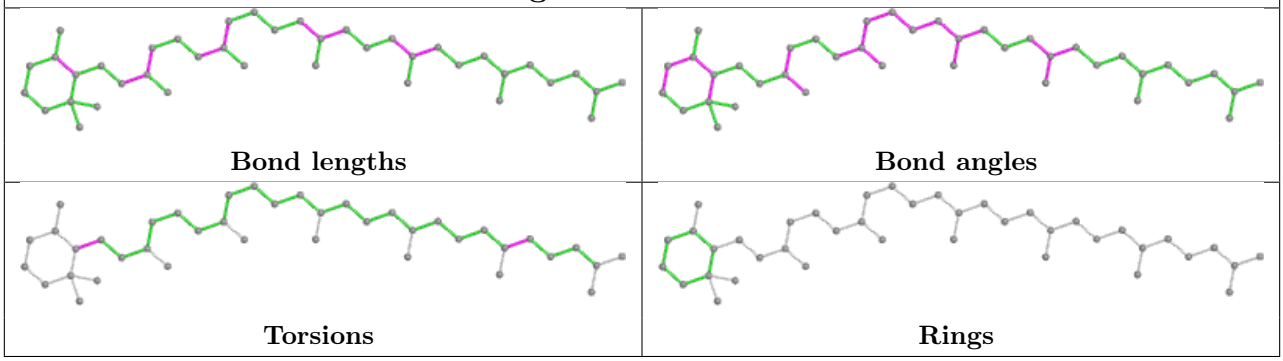


Torsions

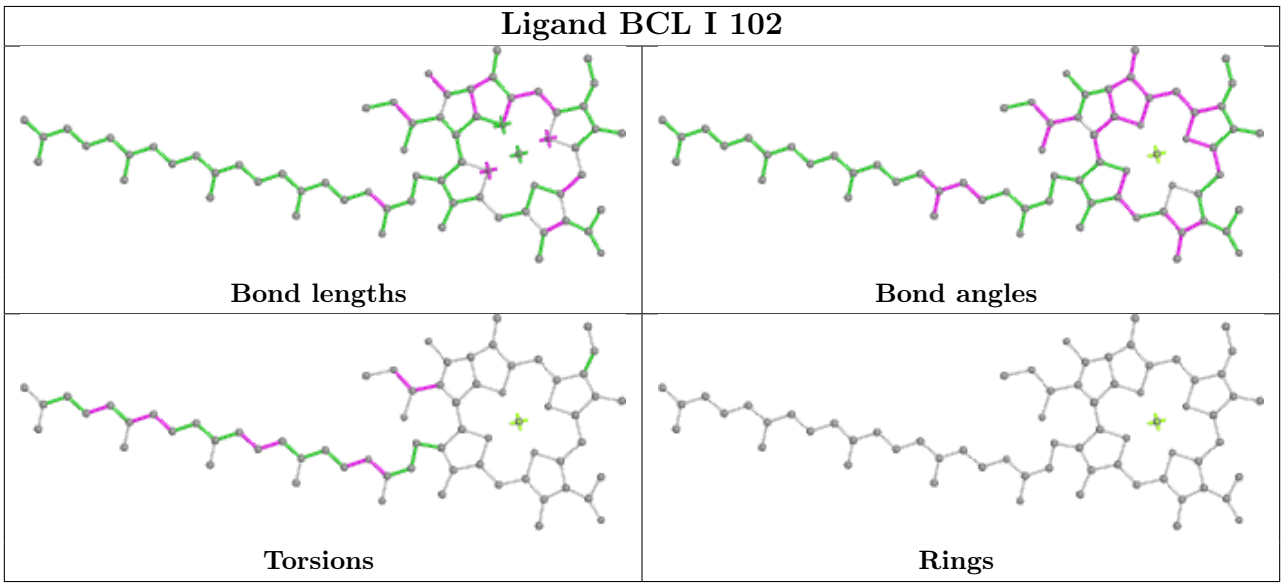


Rings

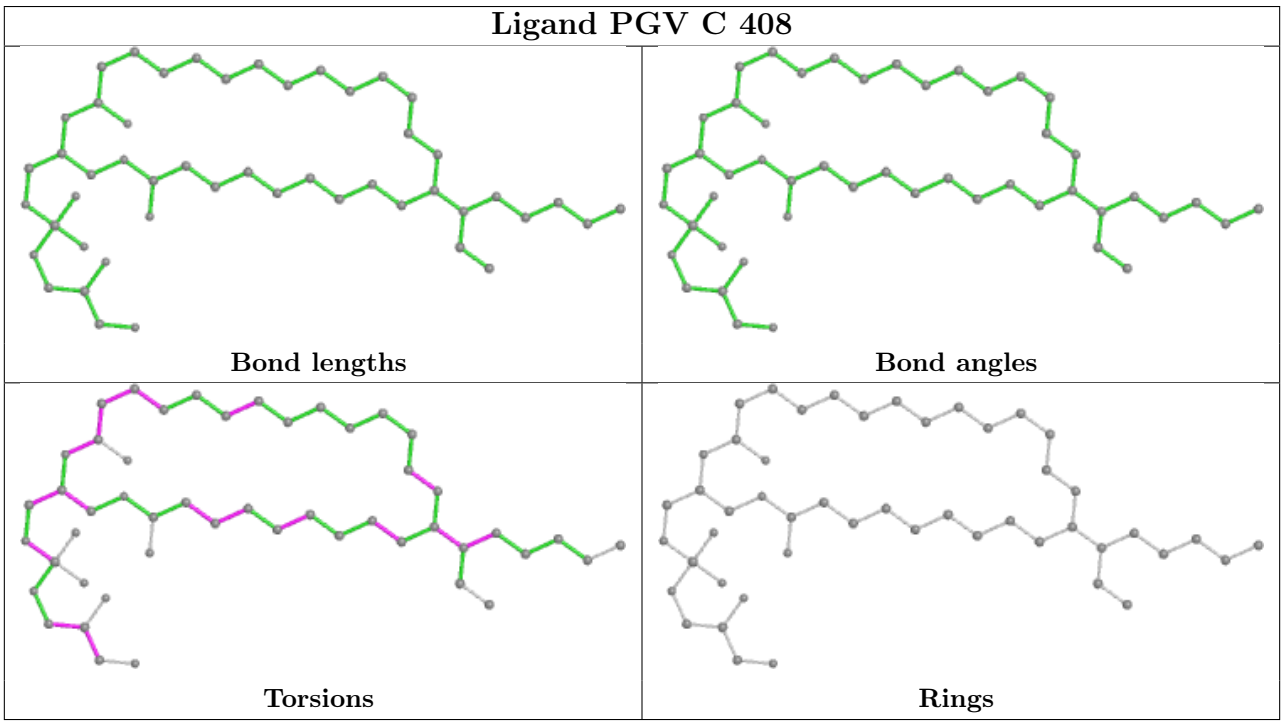
Ligand U4Z T 102



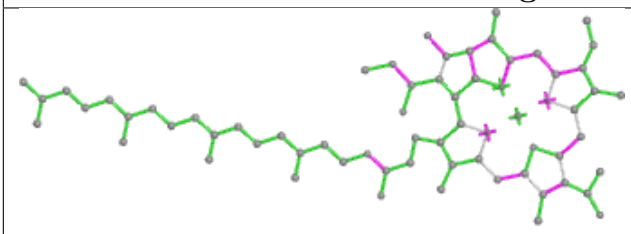
Ligand BCL I 102



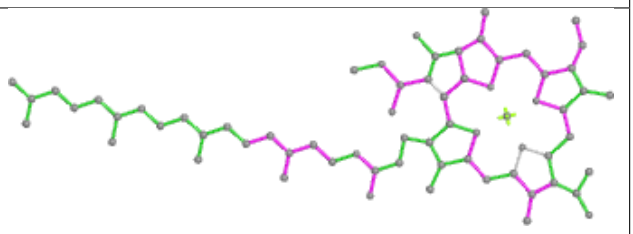
Ligand PGV C 408



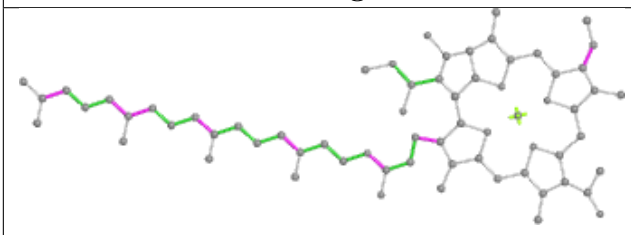
Ligand BCL W 101



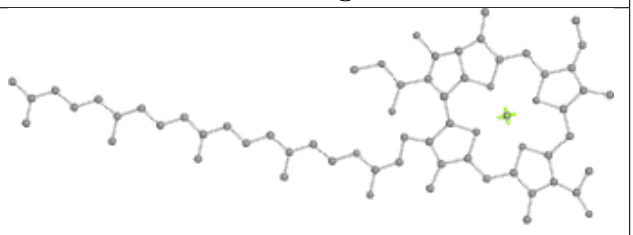
Bond lengths



Bond angles

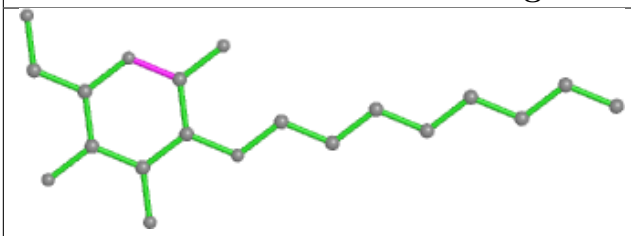


Torsions

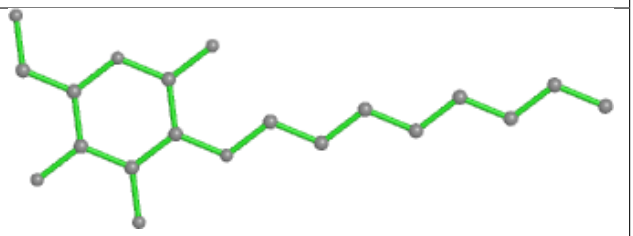


Rings

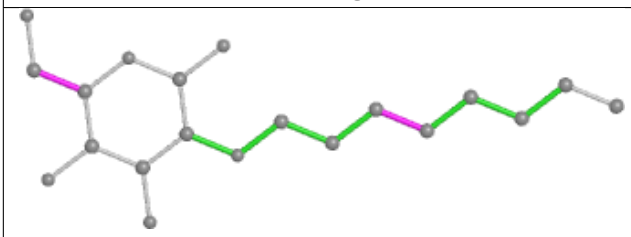
Ligand BGL C 409



Bond lengths



Bond angles



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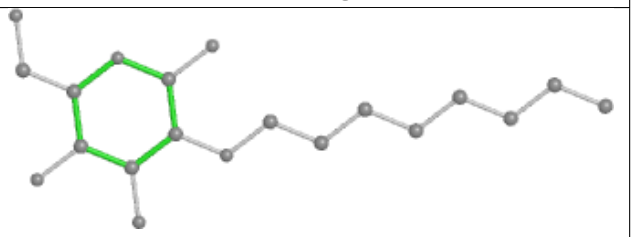
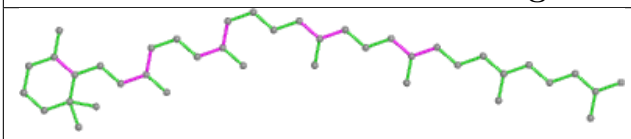
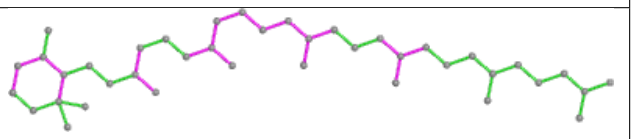


Rings

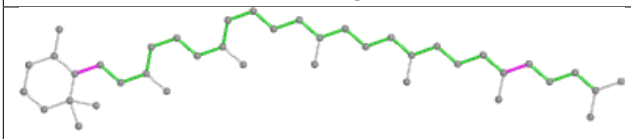
Ligand U4Z P 102



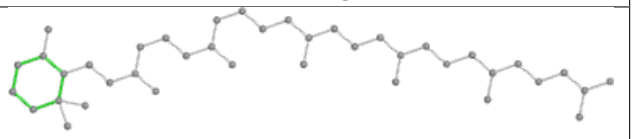
Bond lengths



Bond angles

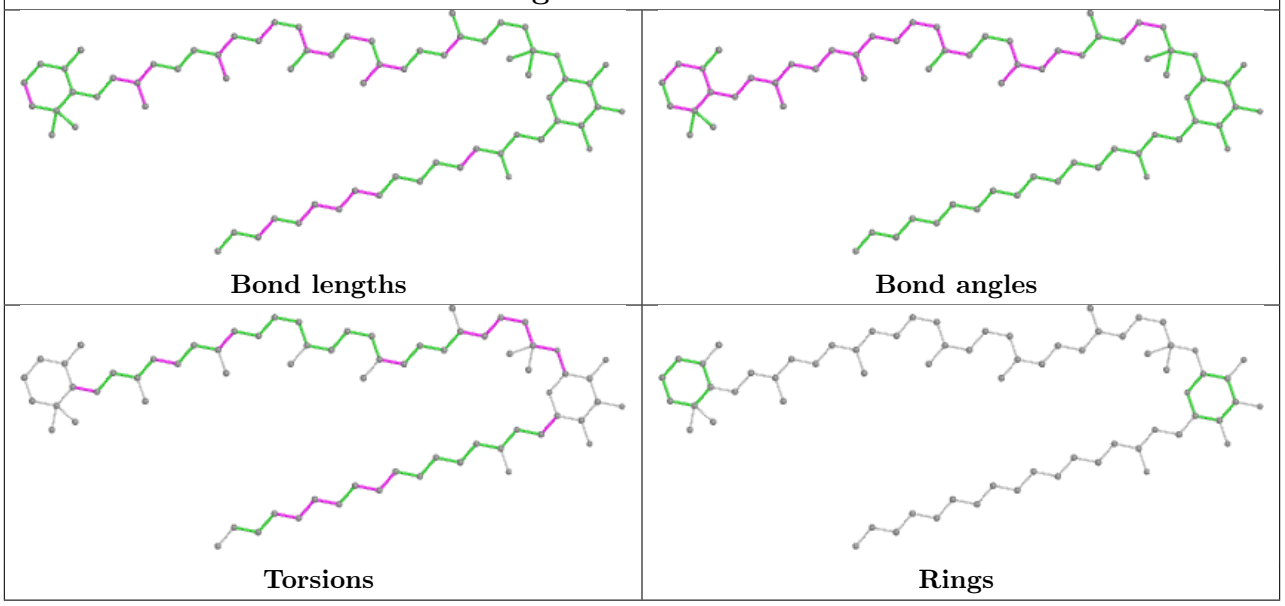


Torsions

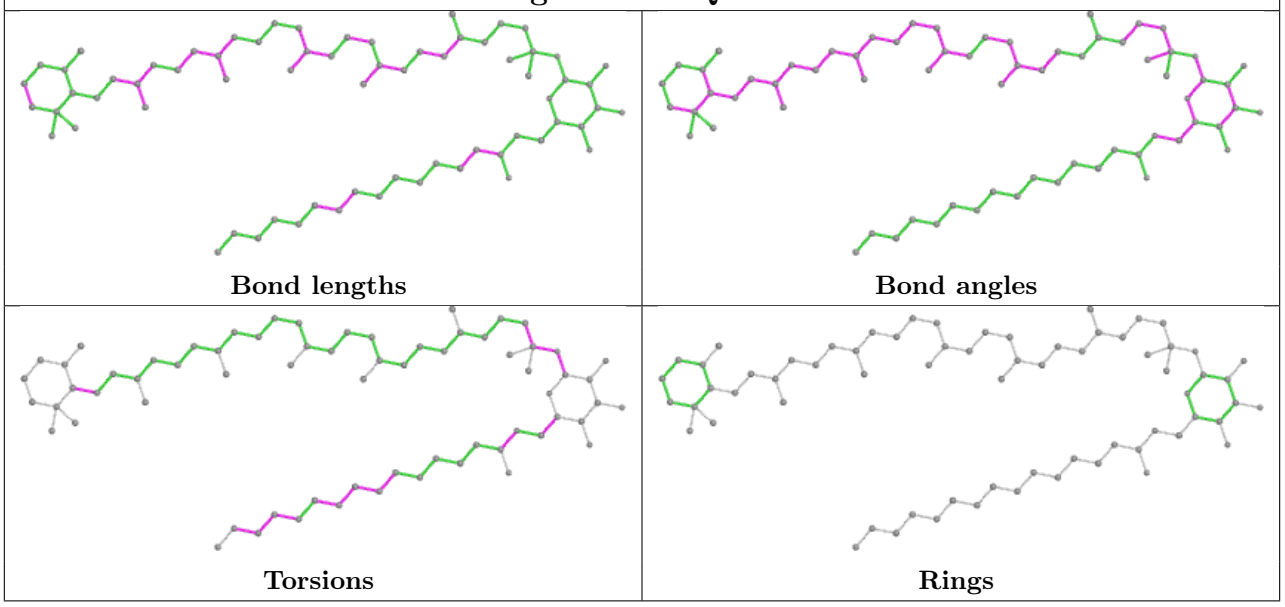


Rings

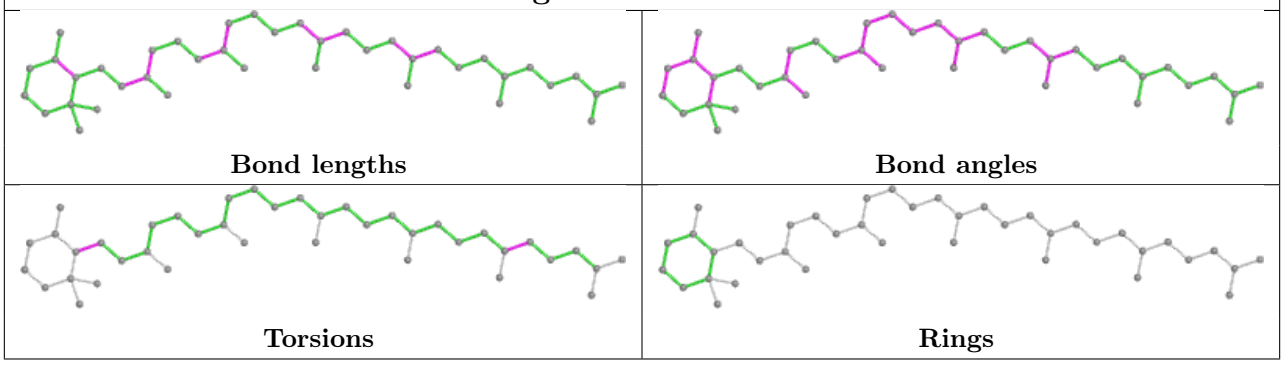
Ligand U42 E 101



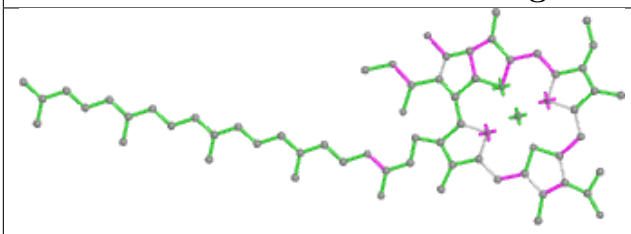
Ligand U42 Q 101



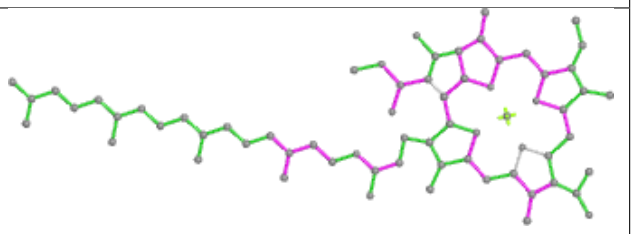
Ligand U4Z 3 102



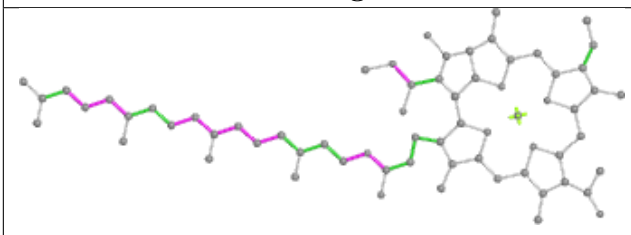
Ligand BCL 8 102



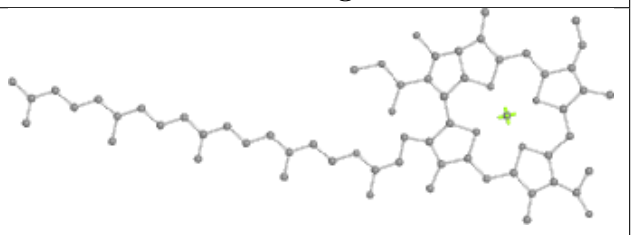
Bond lengths



Bond angles

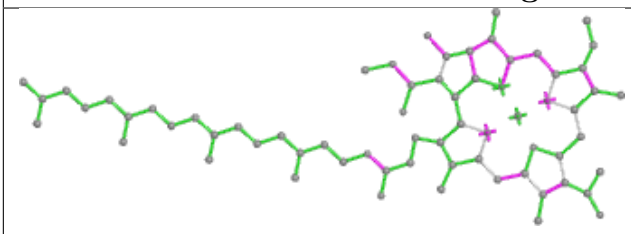


Torsions

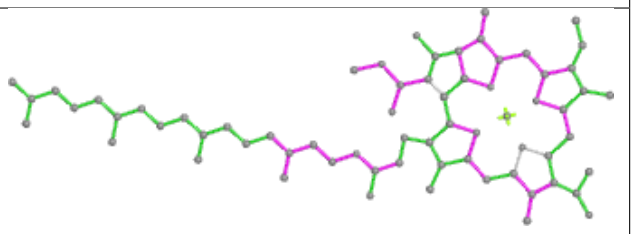


Rings

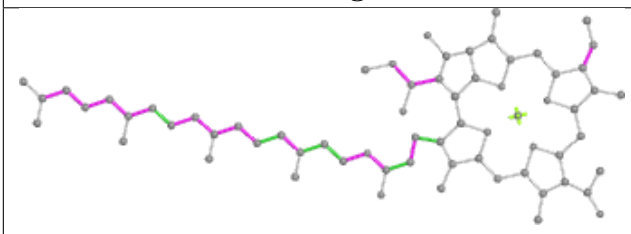
Ligand BCL M 701



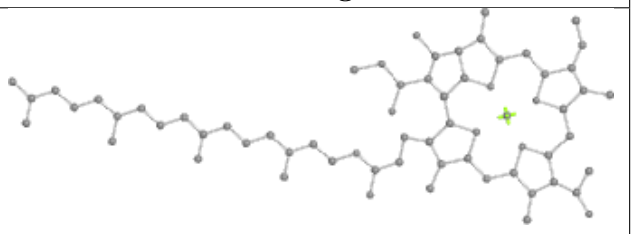
Bond lengths



Bond angles

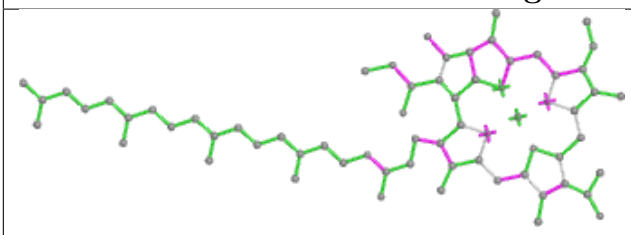


Torsions

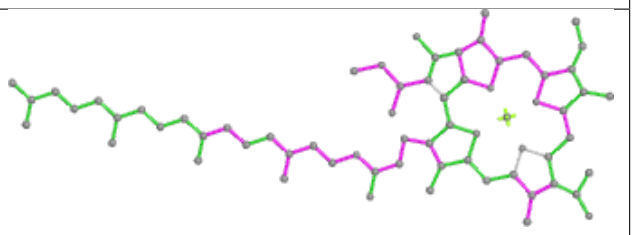


Rings

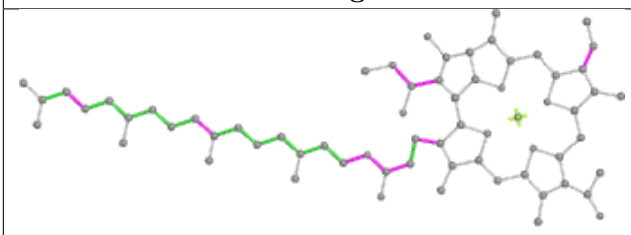
Ligand BCL K 102



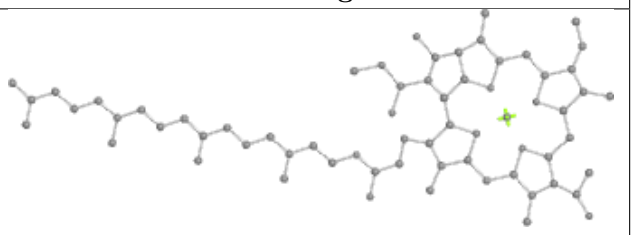
Bond lengths



Bond angles

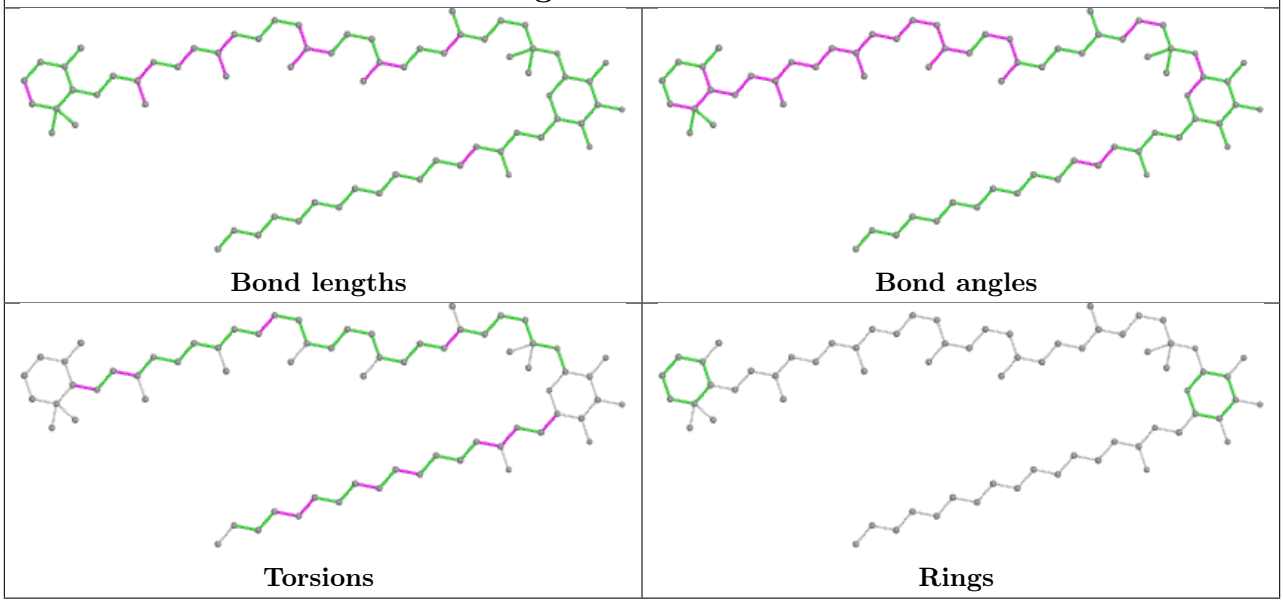


Torsions

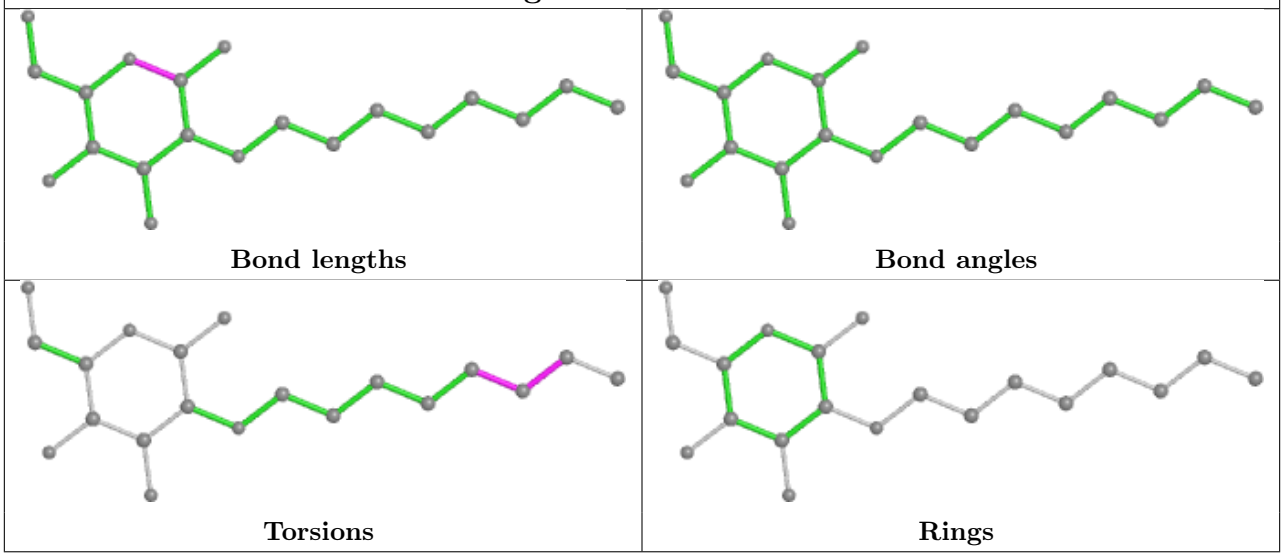


Rings

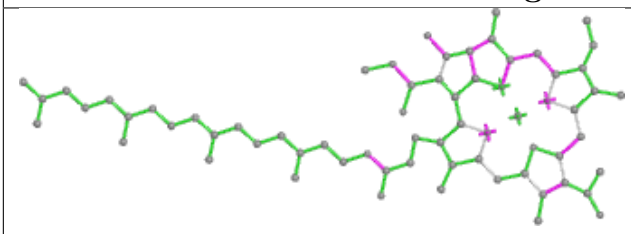
Ligand U42 8 101



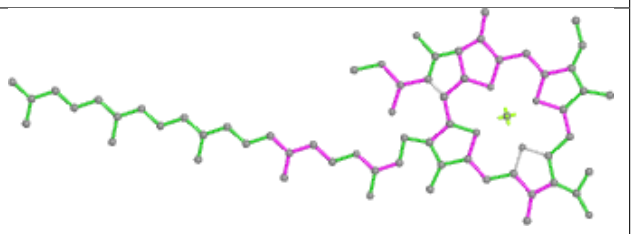
Ligand BGL D 104



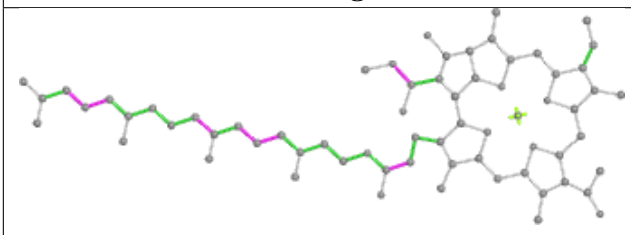
Ligand BCL U 102



Bond lengths



Bond angles



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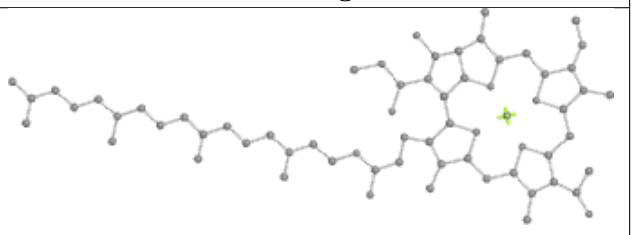
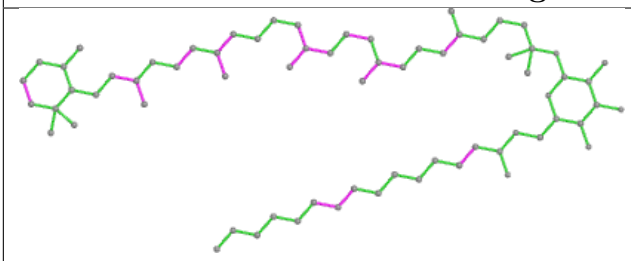
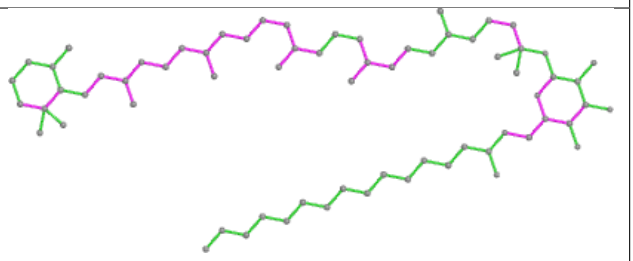


Rings

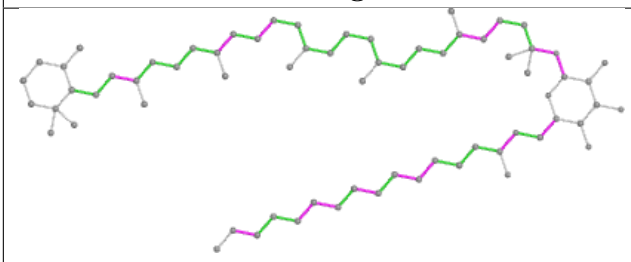
Ligand U42 U 101



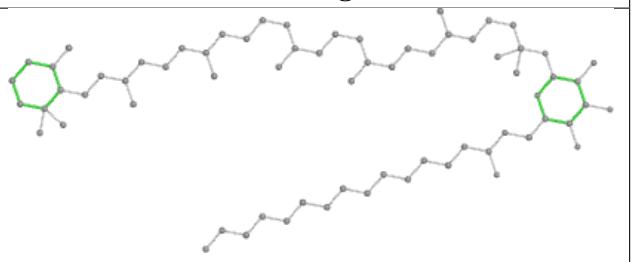
Bond lengths



Bond angles

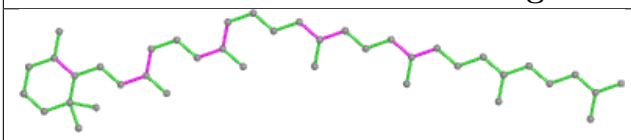


Torsions

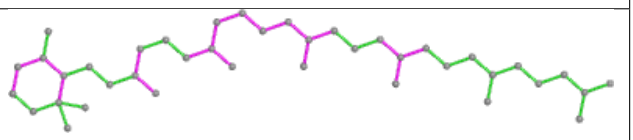


Rings

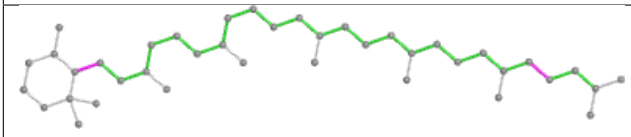
Ligand U4Z H 102



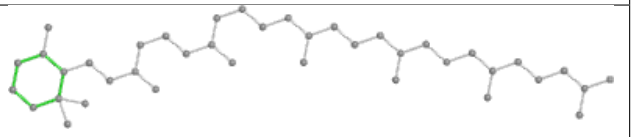
Bond lengths



Bond angles

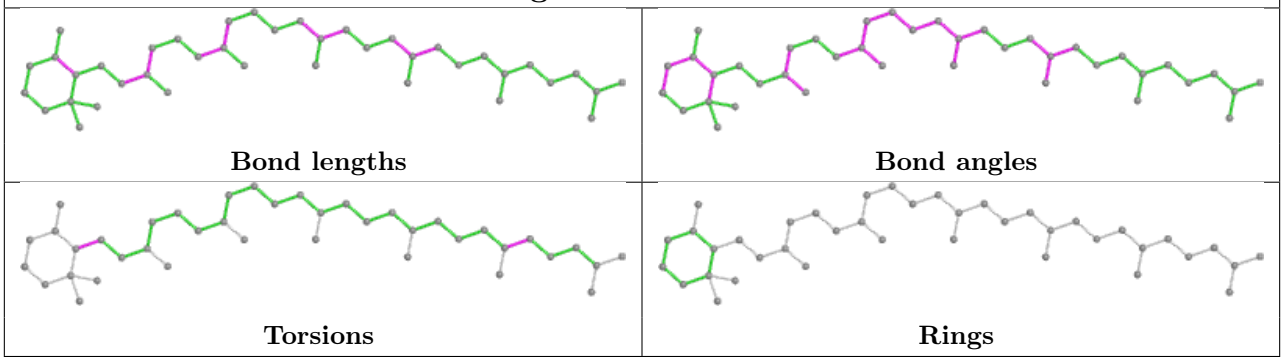


Torsions

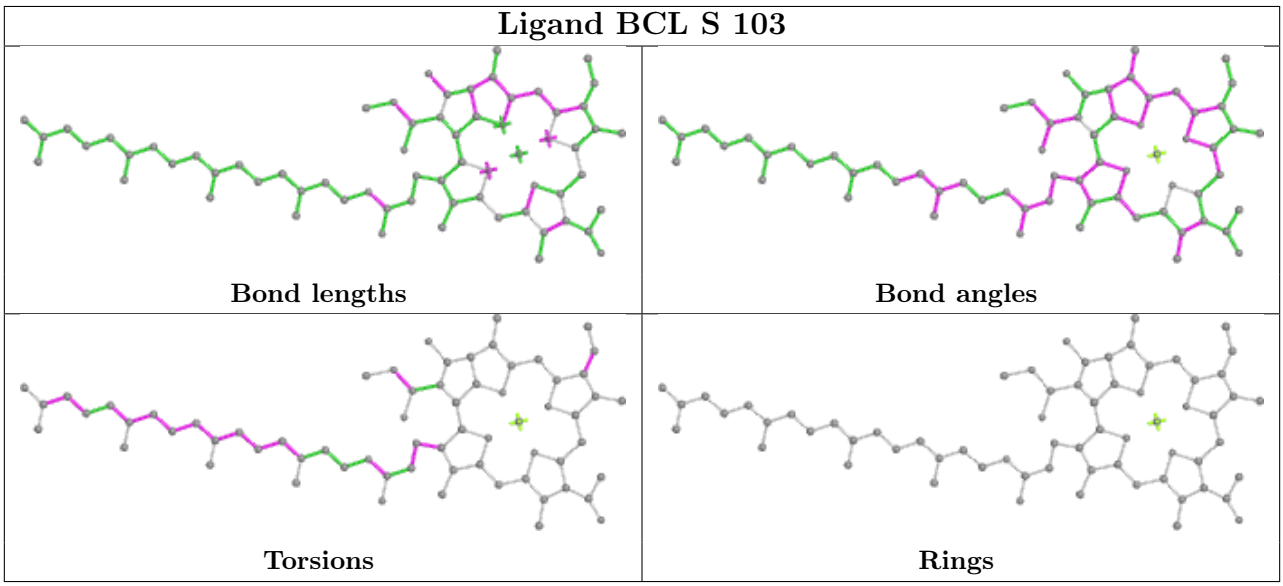


Rings

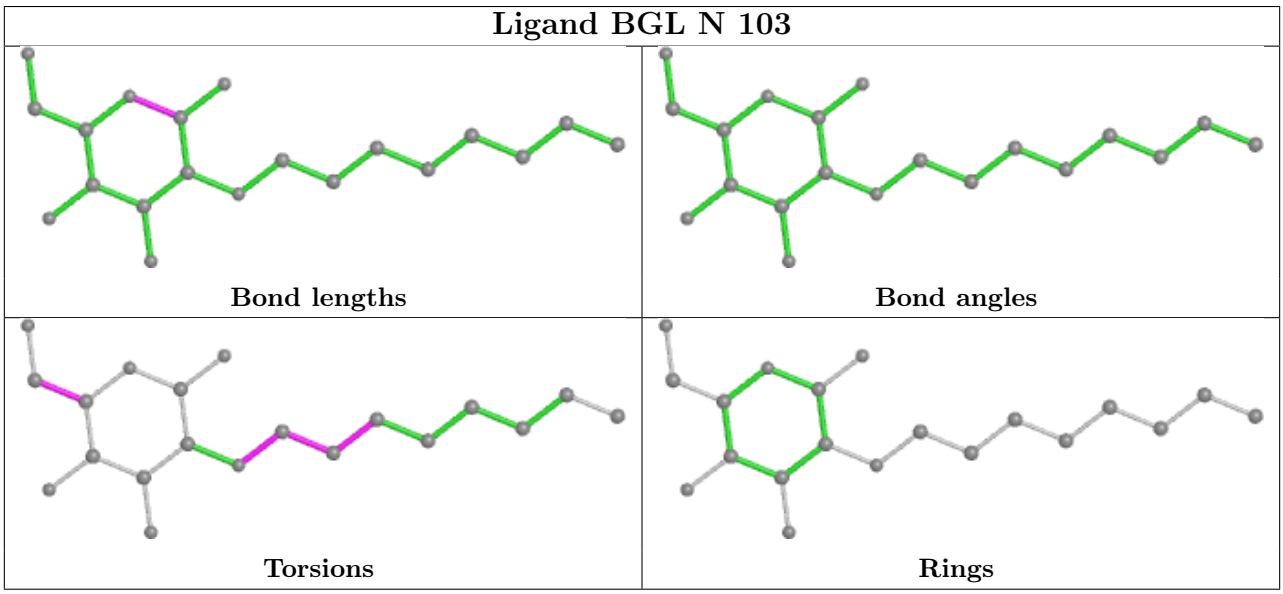
Ligand U4Z F 103



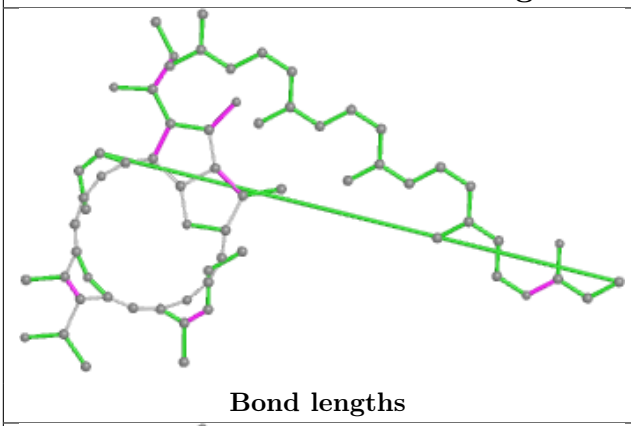
Ligand BCL S 103



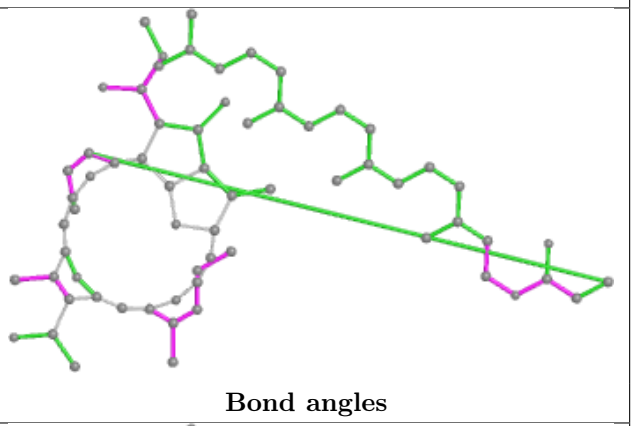
Ligand BGL N 103



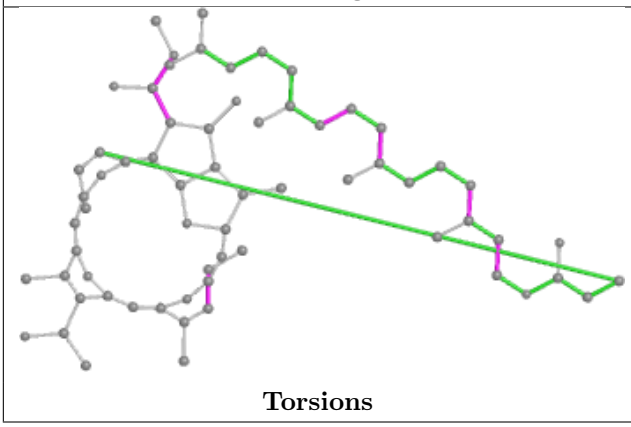
Ligand BPH L 1003



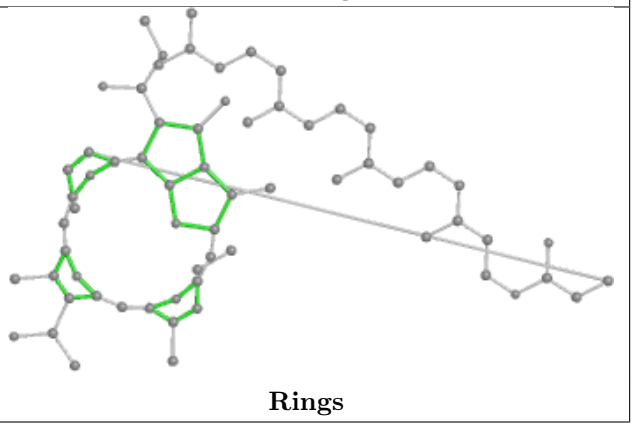
Bond lengths



Bond angles

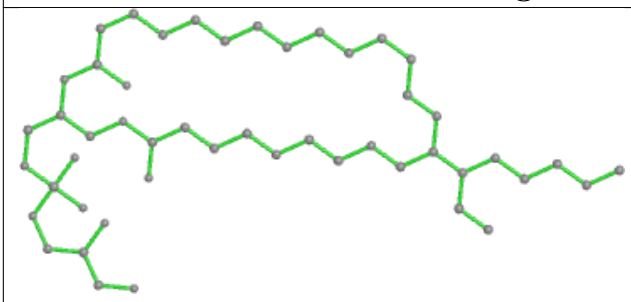


Torsions

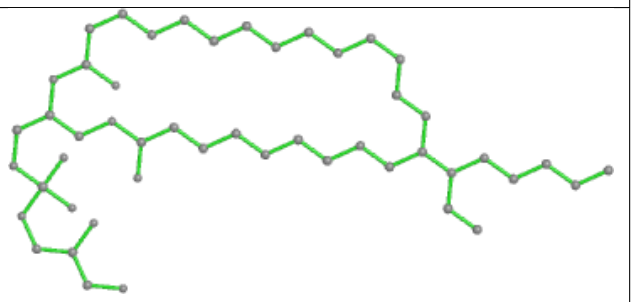


Rings

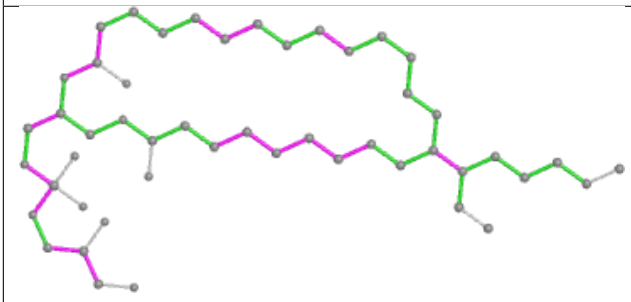
Ligand PGV L 1008



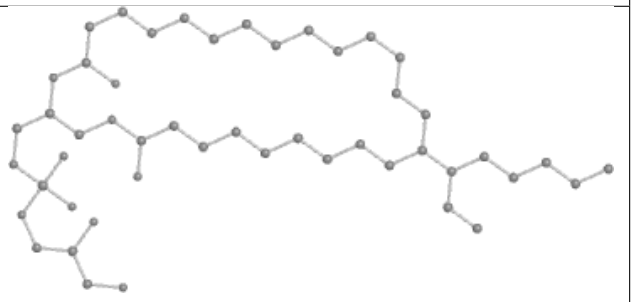
Bond lengths



Bond angles

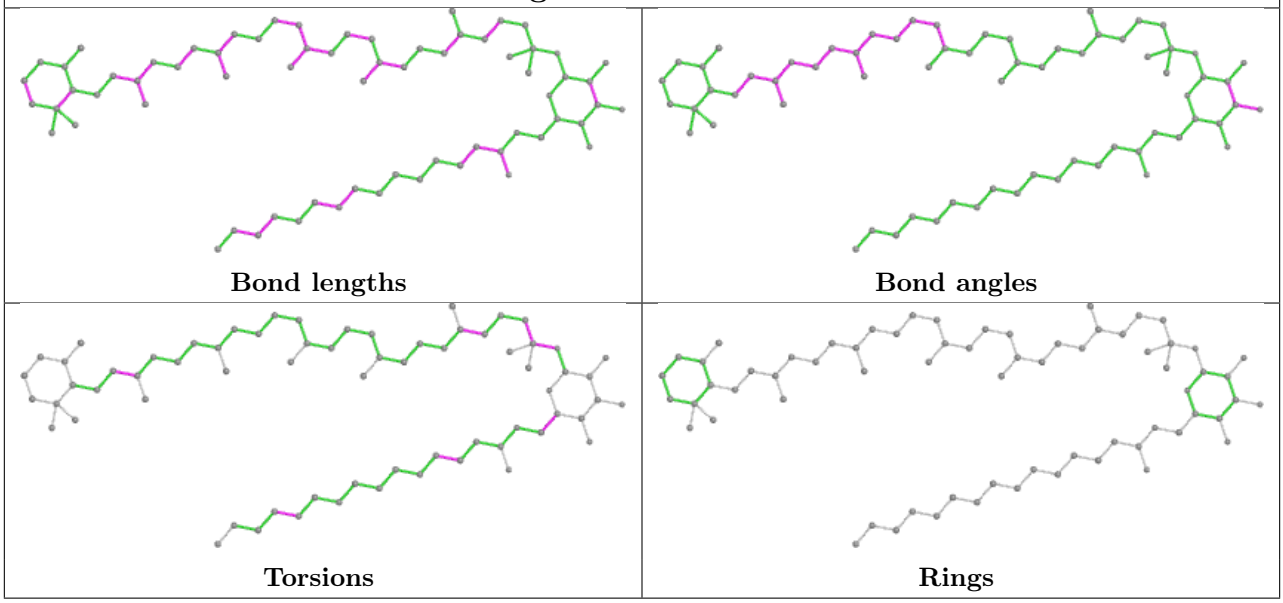


Torsions

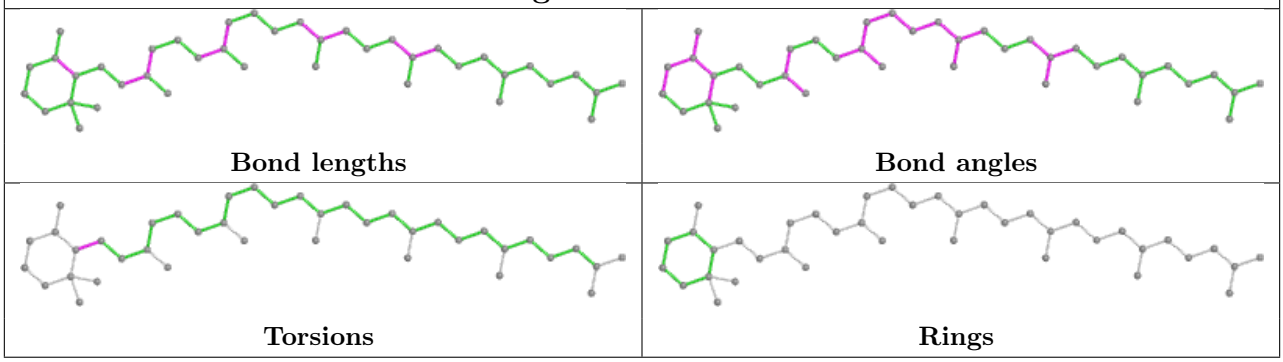


Rings

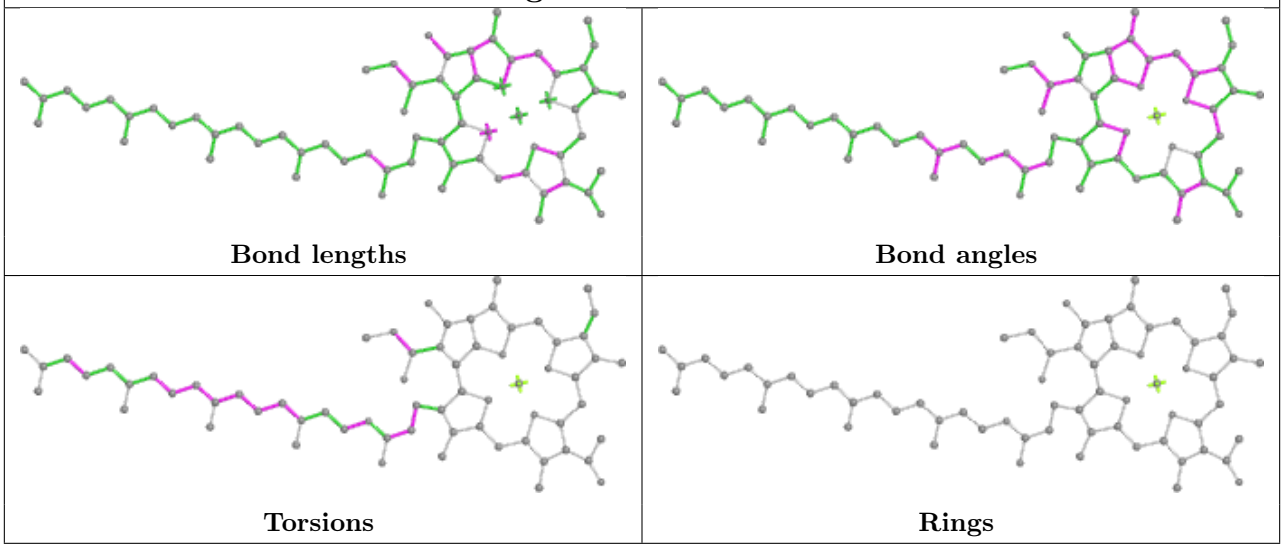
Ligand U42 G 101



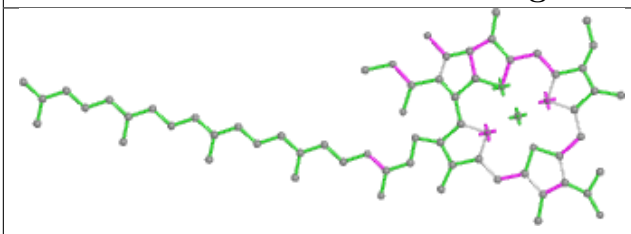
Ligand U4Z 9 101



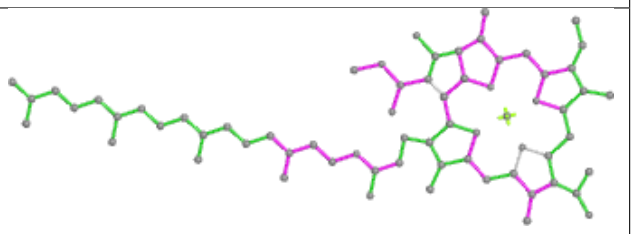
Ligand BCL O 103



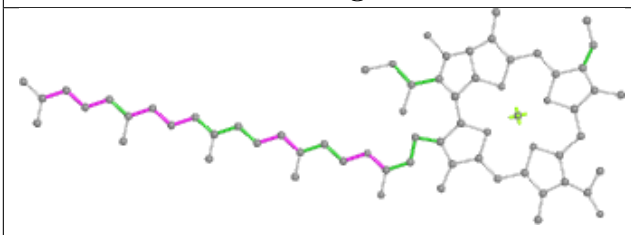
Ligand BCL 4 102



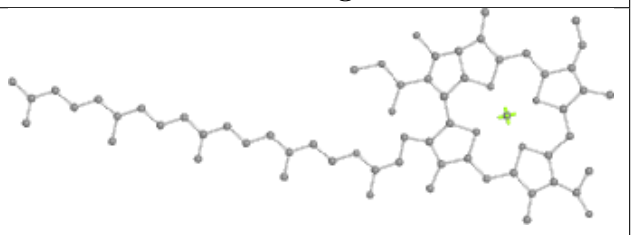
Bond lengths



Bond angles

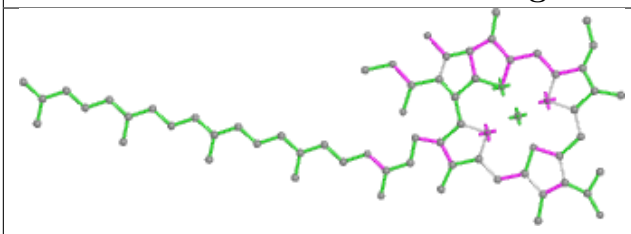


Torsions

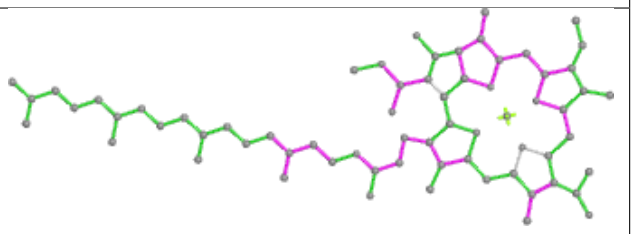


Rings

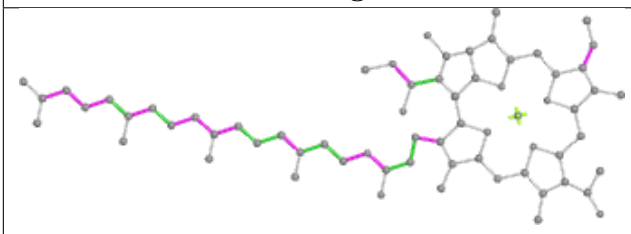
Ligand BCL 2 102



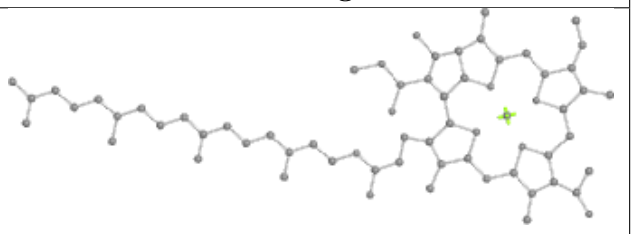
Bond lengths



Bond angles

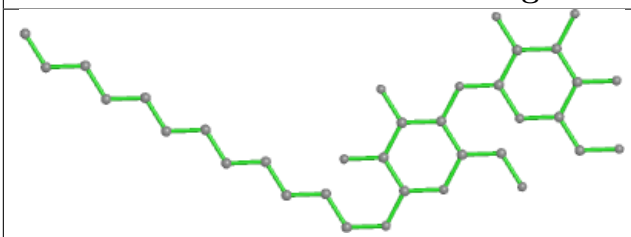


Torsions

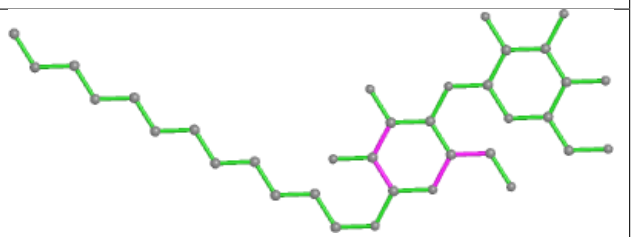


Rings

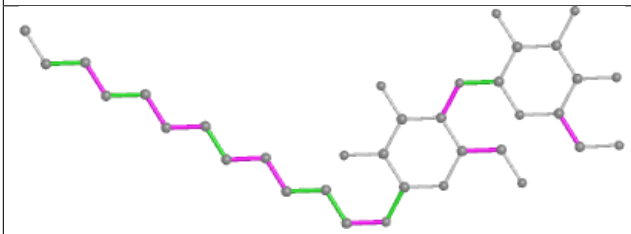
Ligand LMT T 103



Bond lengths



Bond angles



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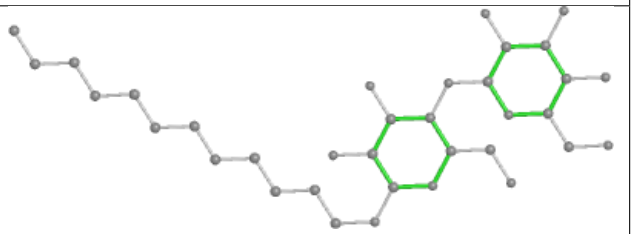
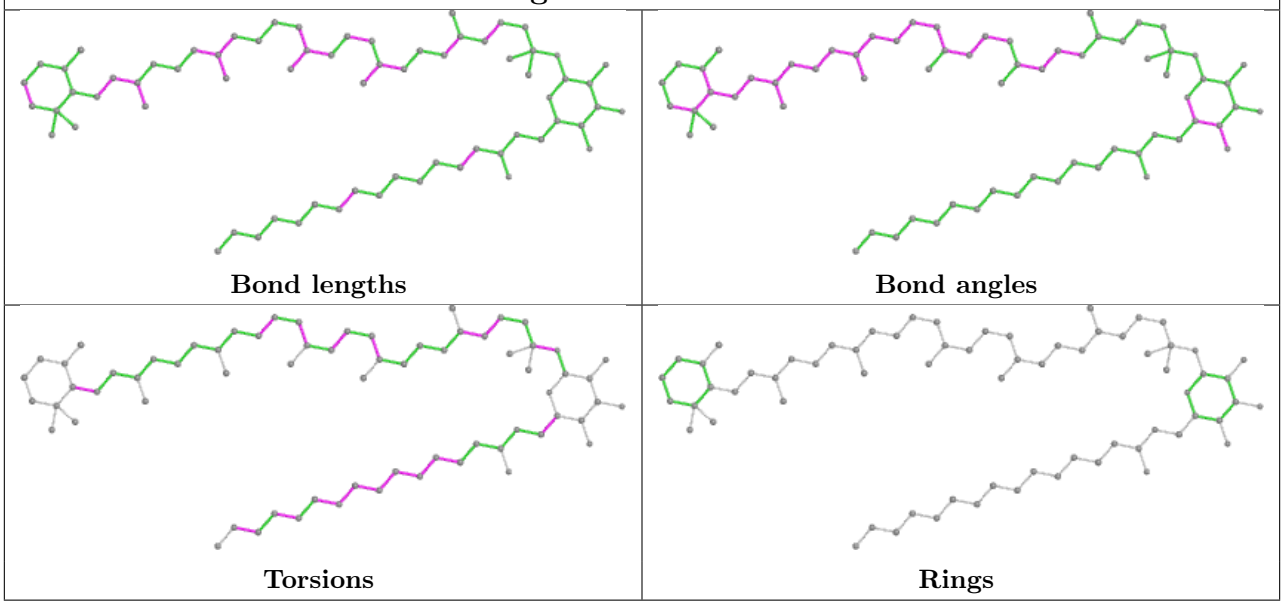
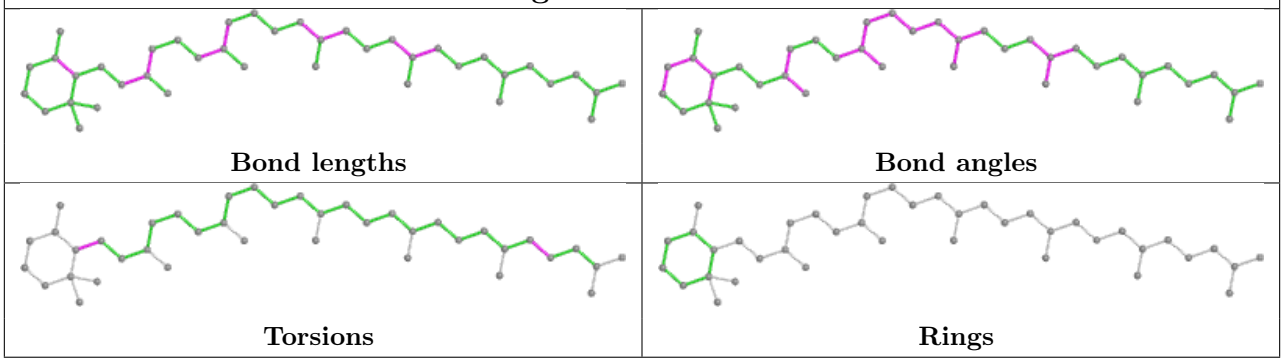


Rings

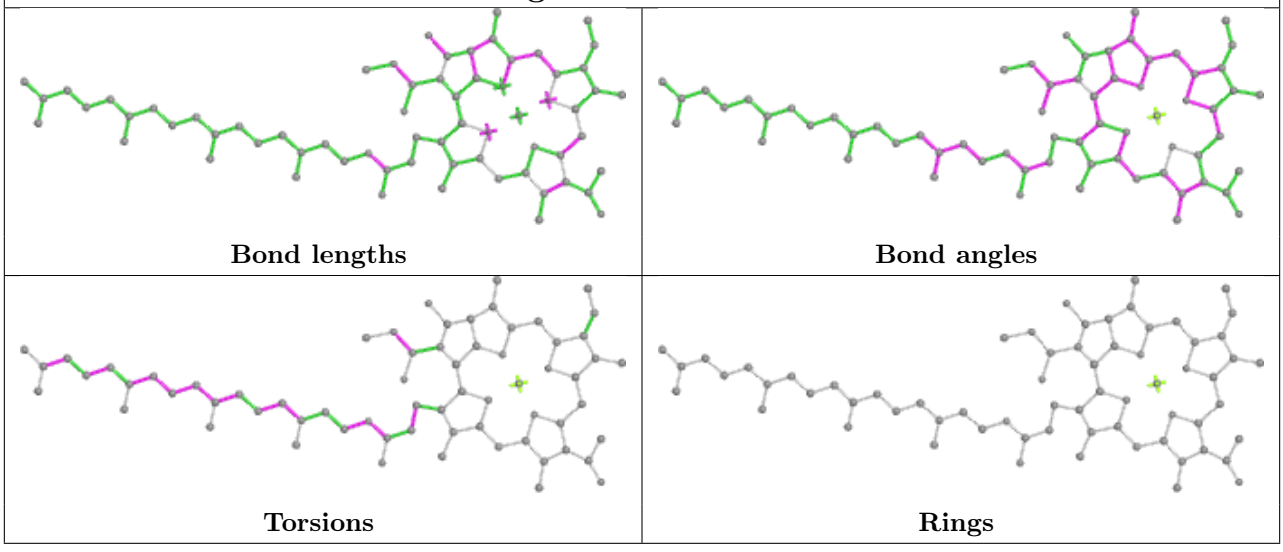
Ligand U42 O 101



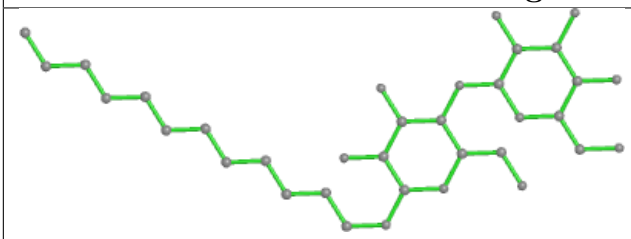
Ligand U4Z S 104



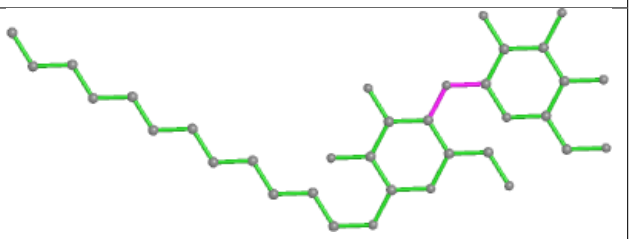
Ligand BCL F 102



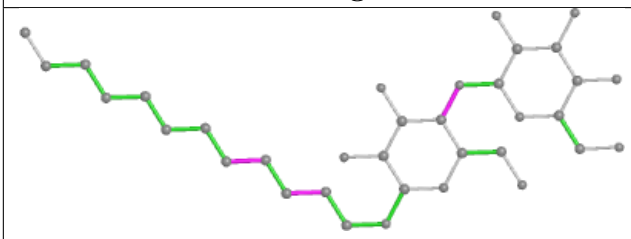
Ligand LMT 1 103



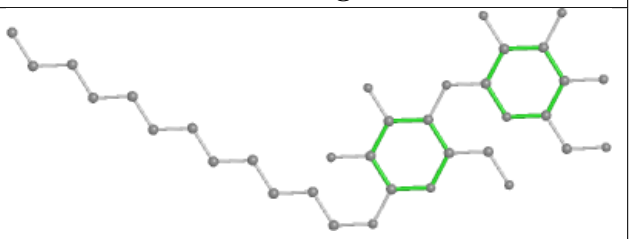
Bond lengths



Bond angles

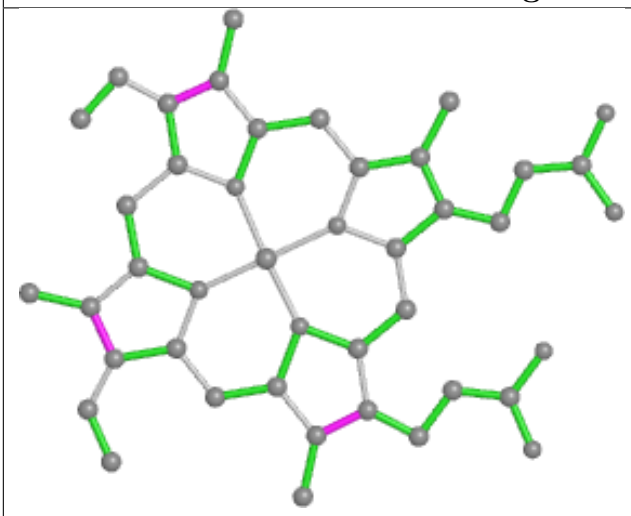


Torsions

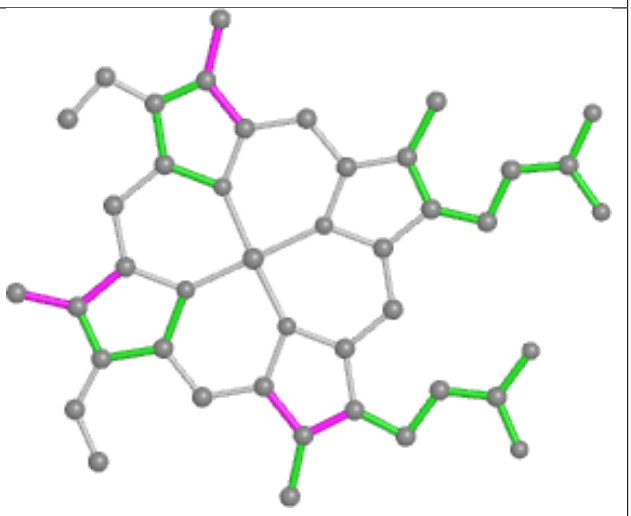


Rings

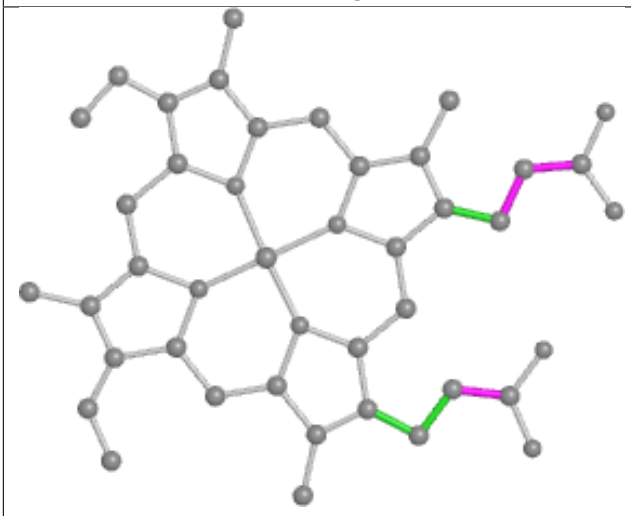
Ligand HEC C 402



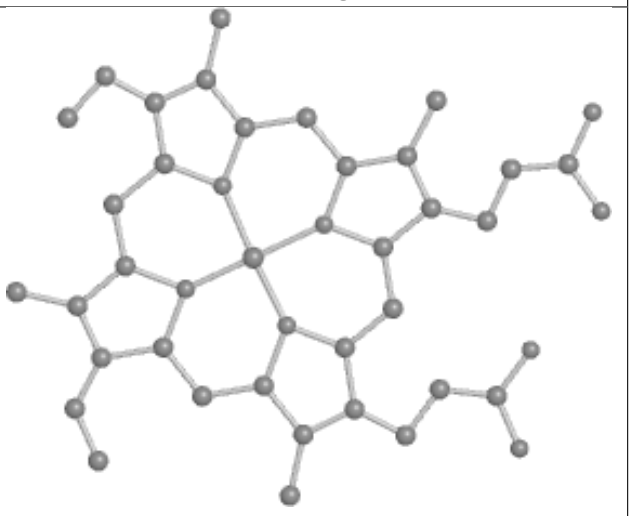
Bond lengths



Bond angles

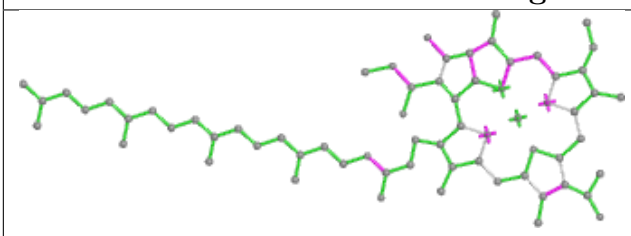


Torsions

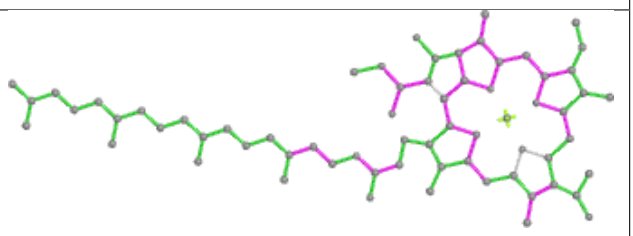


Rings

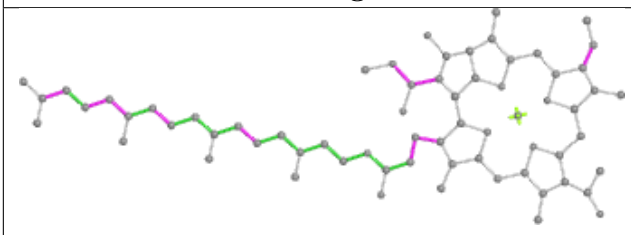
Ligand BCL 1 101



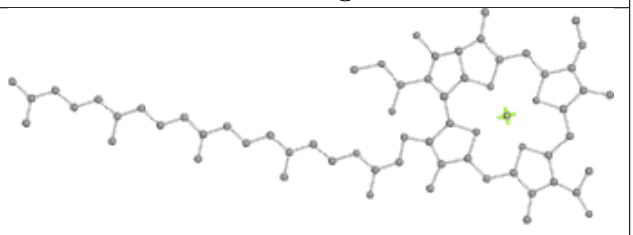
Bond lengths



Bond angles

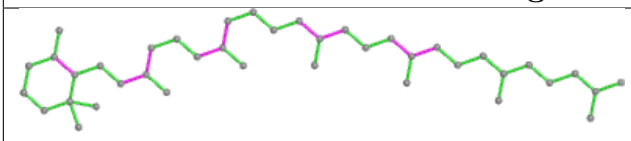


Torsions

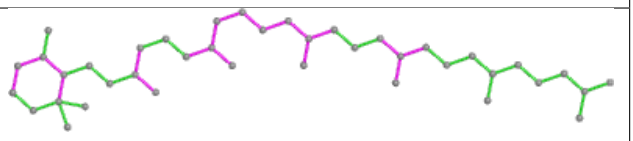


Rings

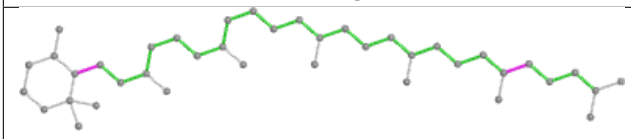
Ligand U4Z A 102



Bond lengths



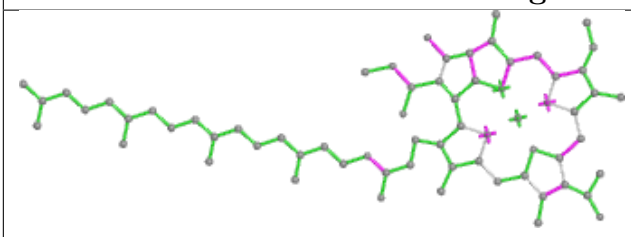
Bond angles



Torsions

Rings

Ligand BCL 6 101



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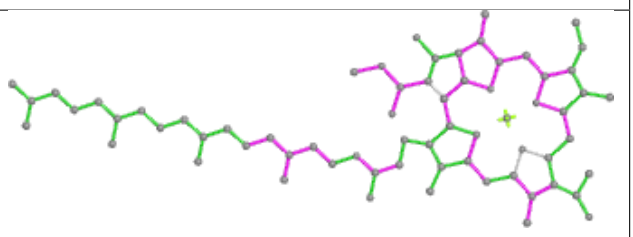
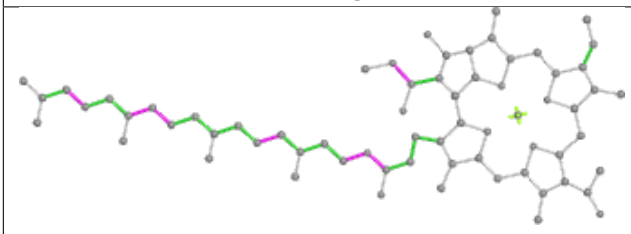
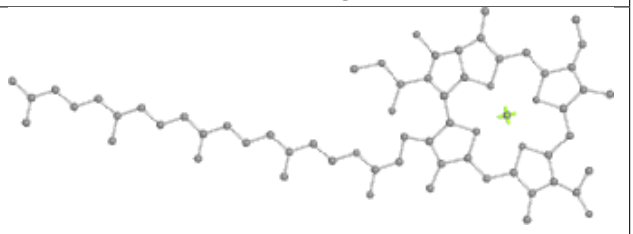


Bond angles



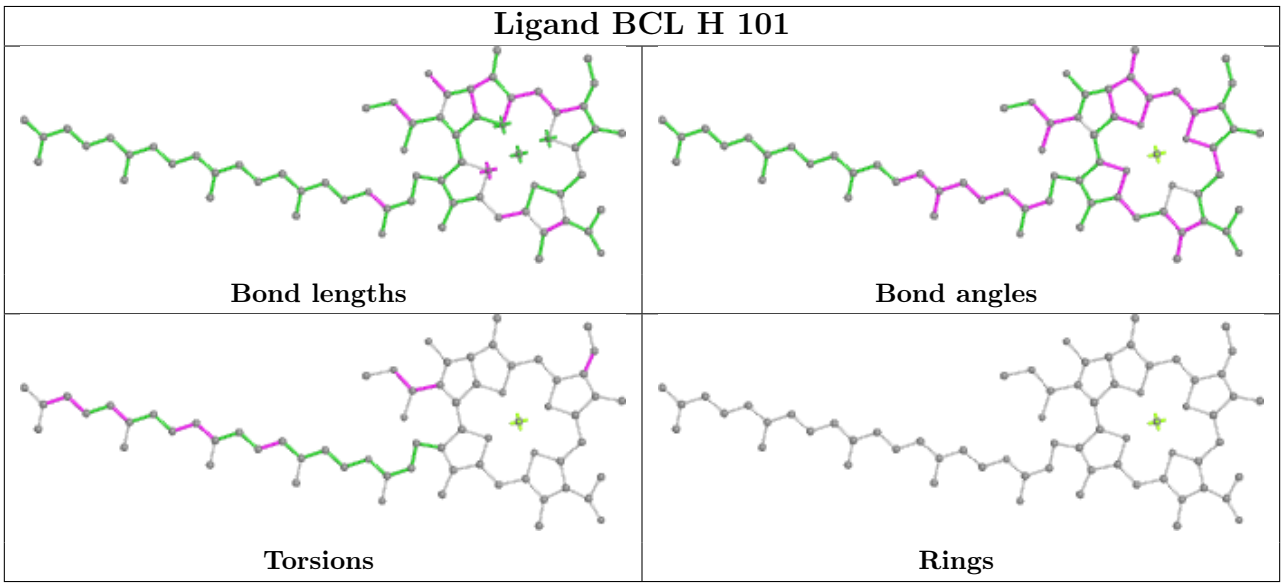
Torsions



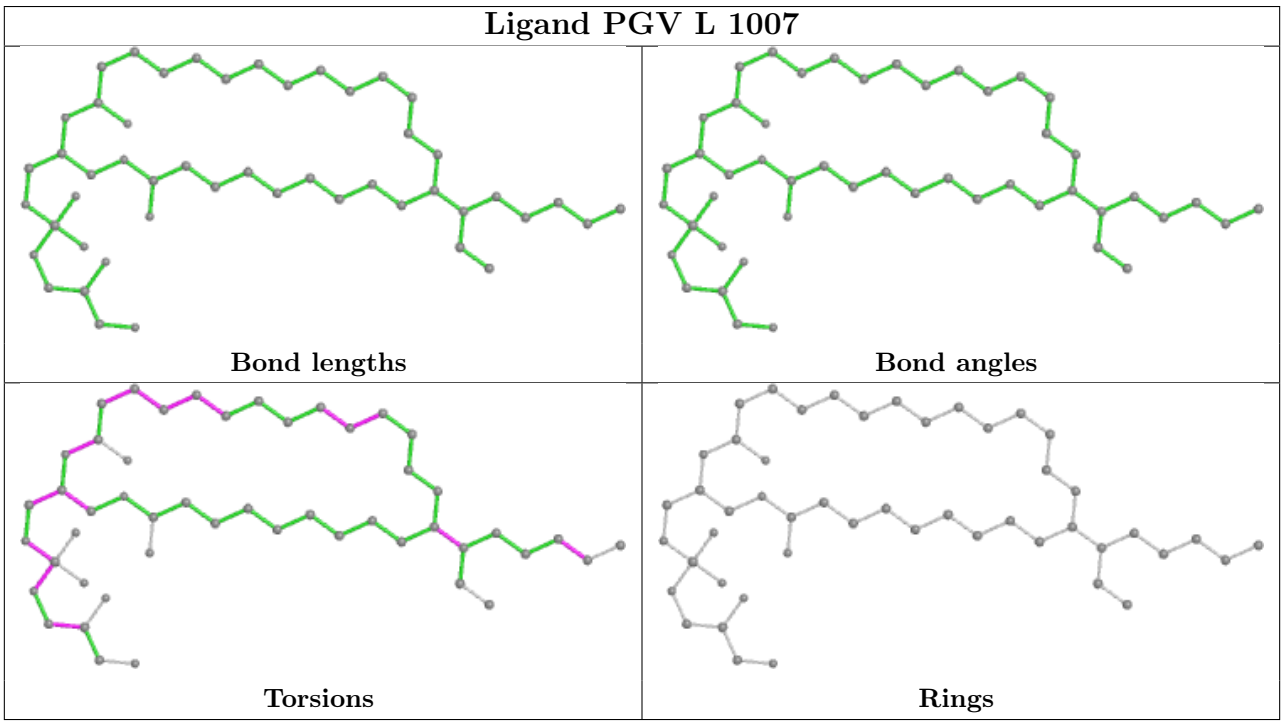
Rings

Ligand U4Z D 103

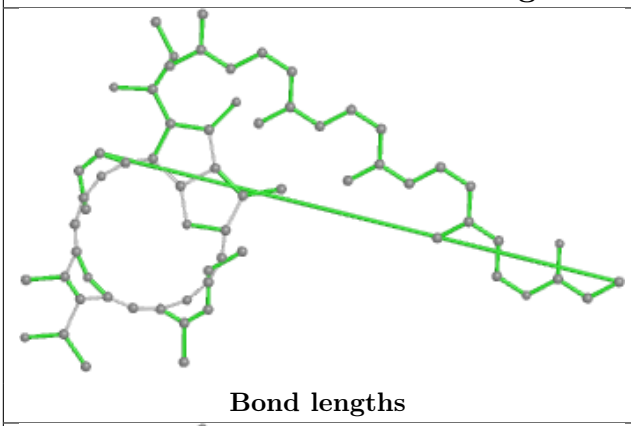
Ligand BCL H 101



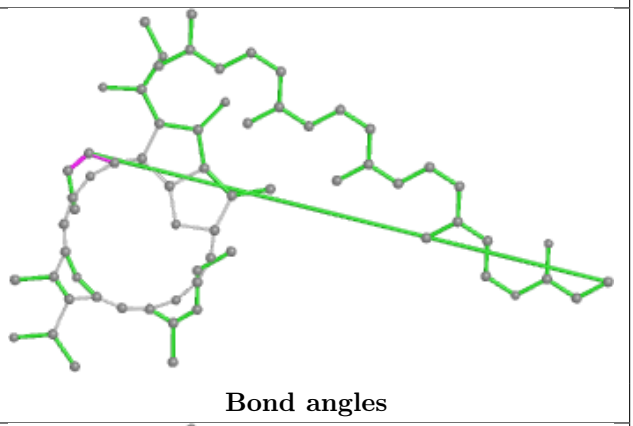
Ligand PGV L 1007



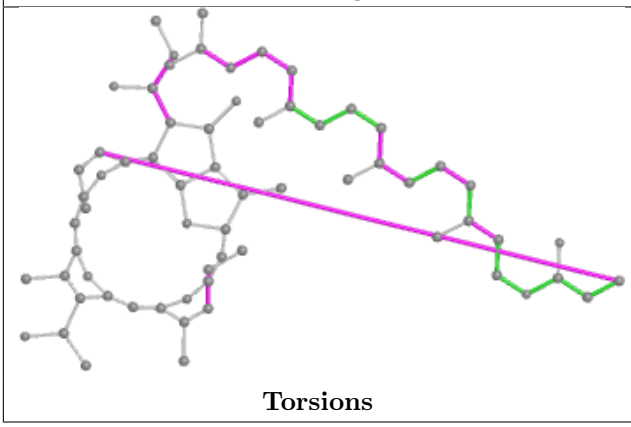
Ligand BPH M 702



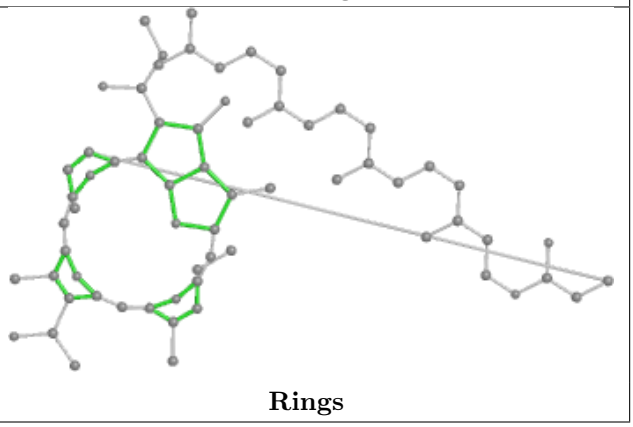
Bond lengths



Bond angles

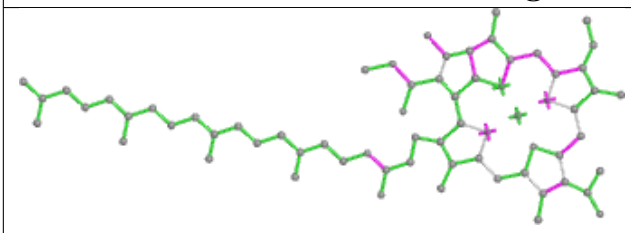


Torsions

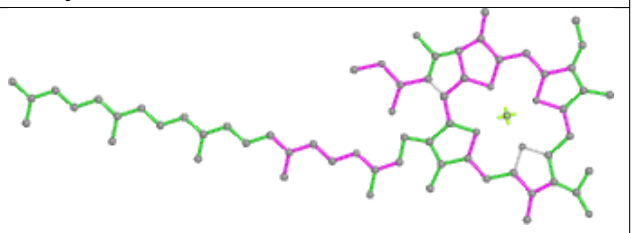


Rings

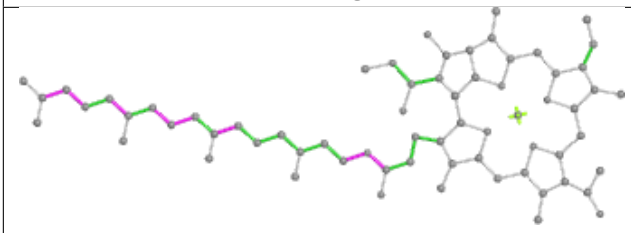
Ligand BCL Q 102



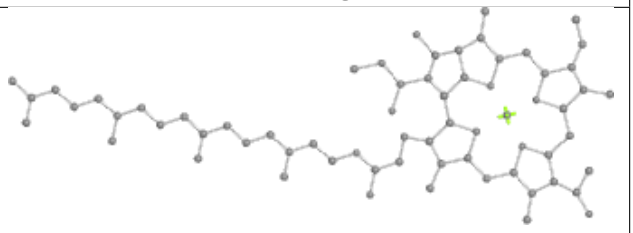
Bond lengths



Bond angles



Torsions



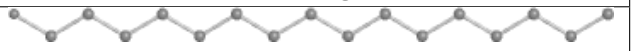
Rings

Ligand LHG h 101

Bond lengths

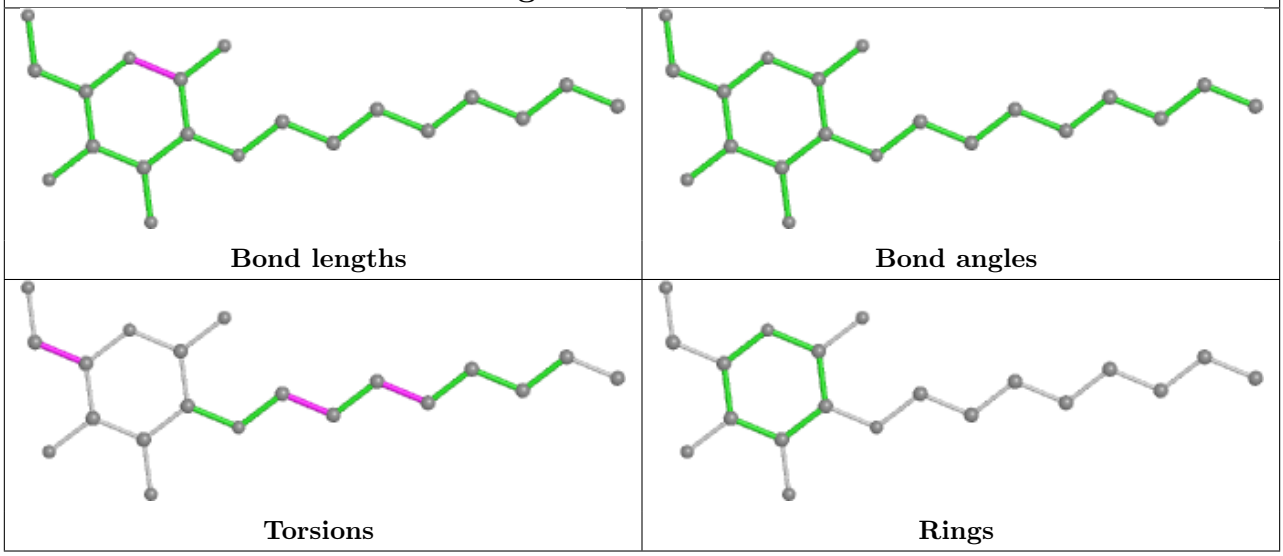
Bond angles

Torsions

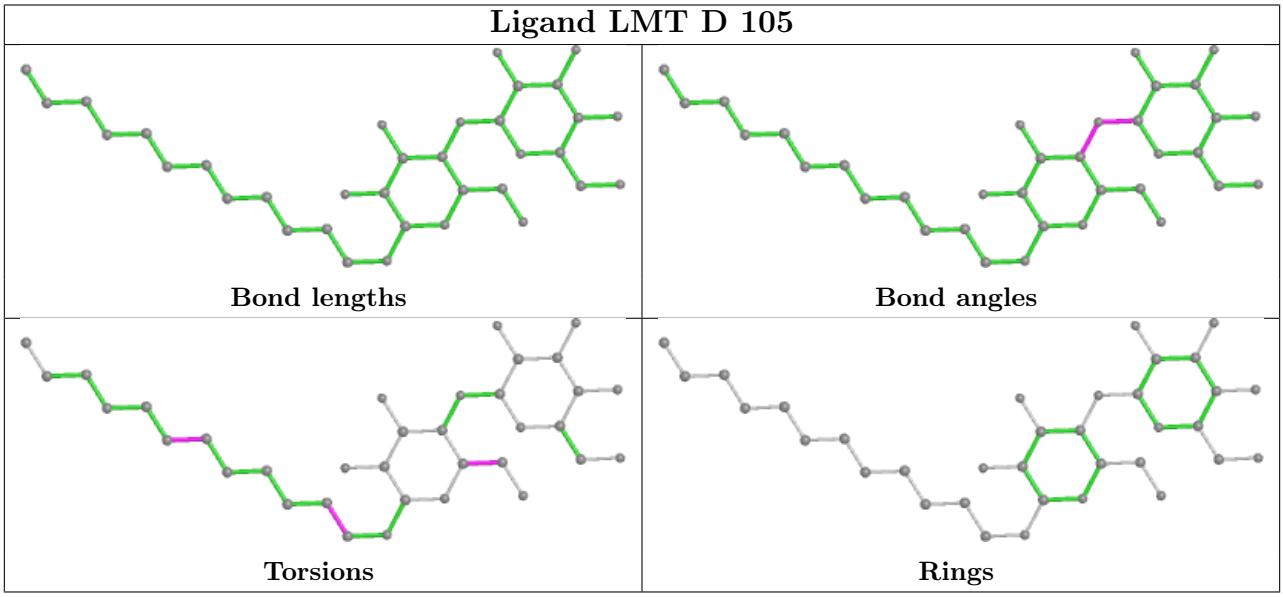


Rings

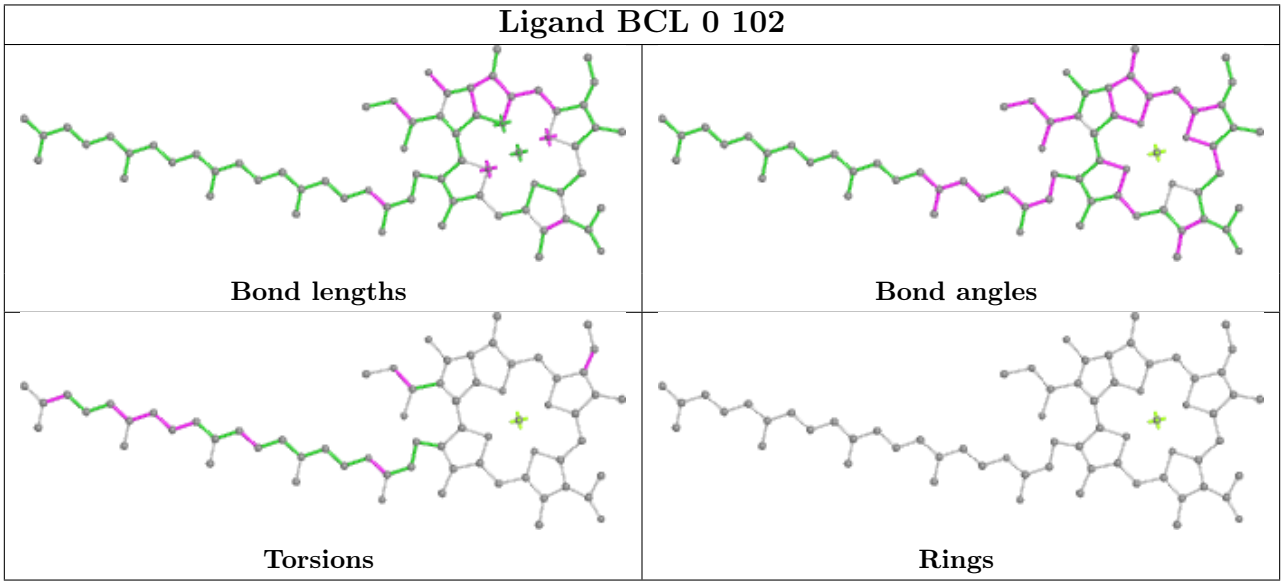
Ligand BGL L 1013



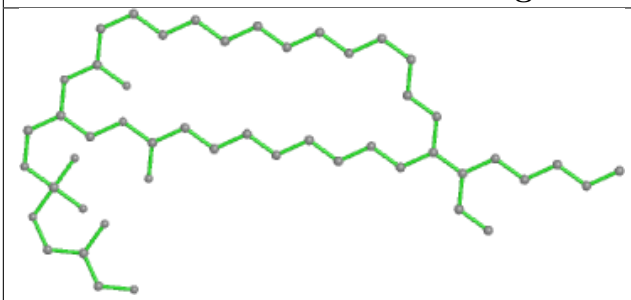
Ligand LMT D 105



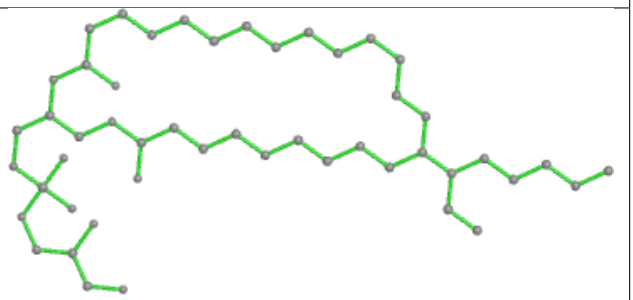
Ligand BCL 0 102



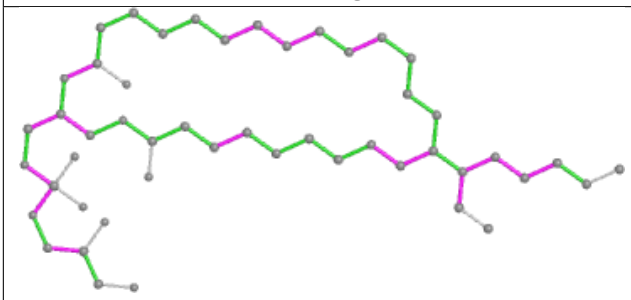
Ligand PGV L 1006



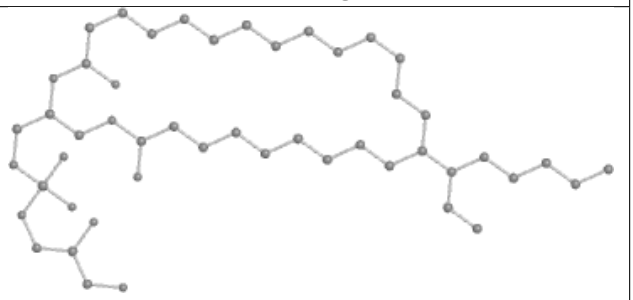
Bond lengths



Bond angles

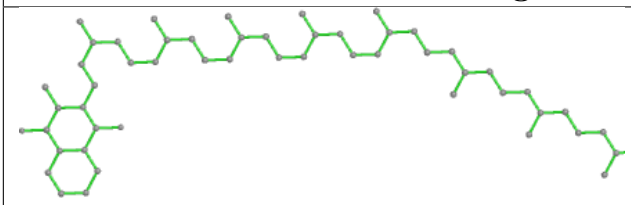


Torsions

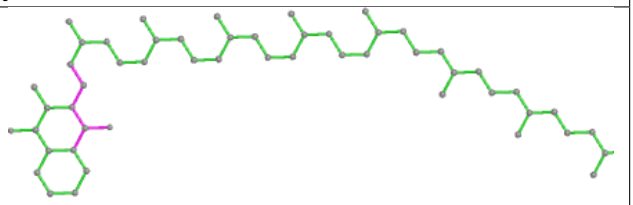


Rings

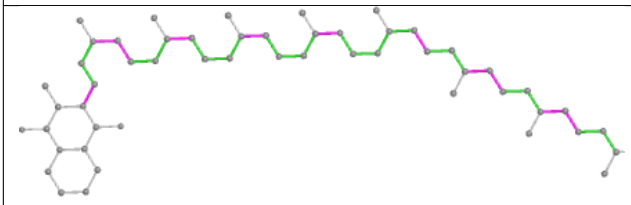
Ligand MQE L 1004



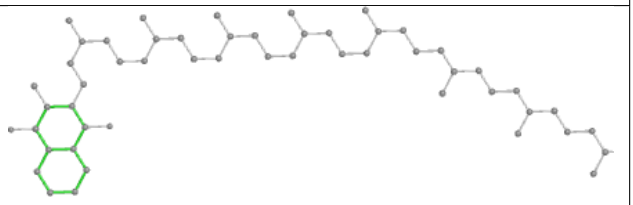
Bond lengths



Bond angles

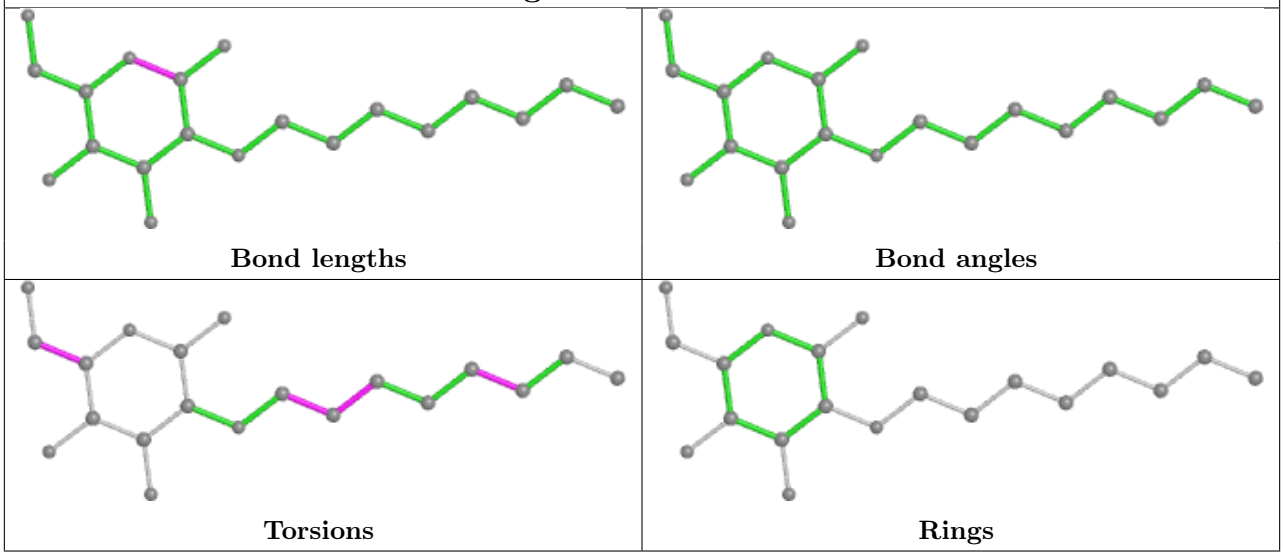


Torsions

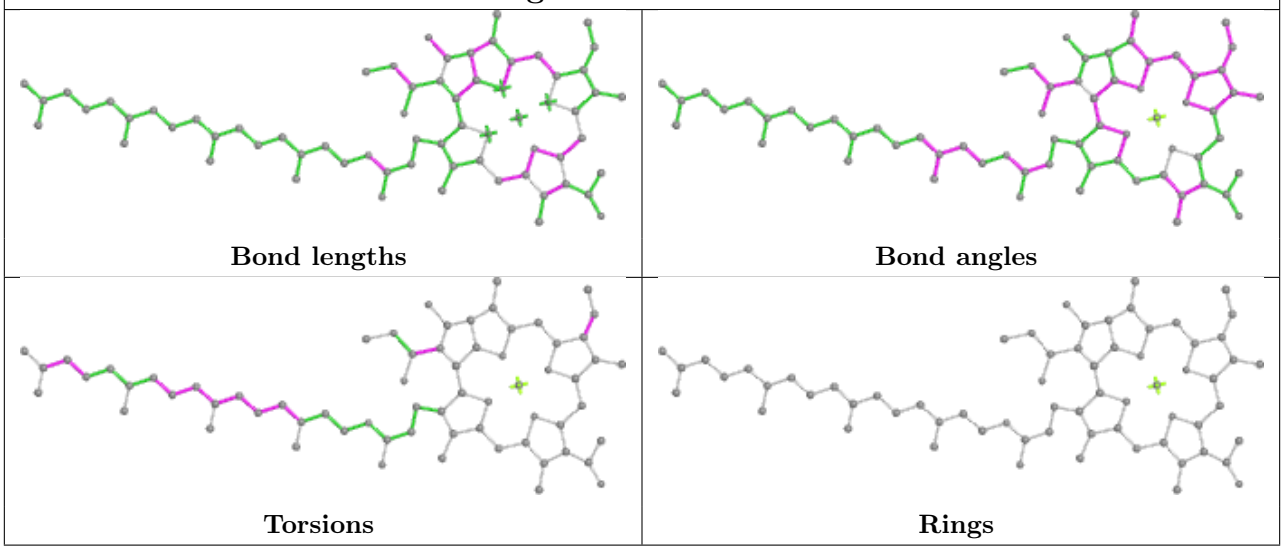


Rings

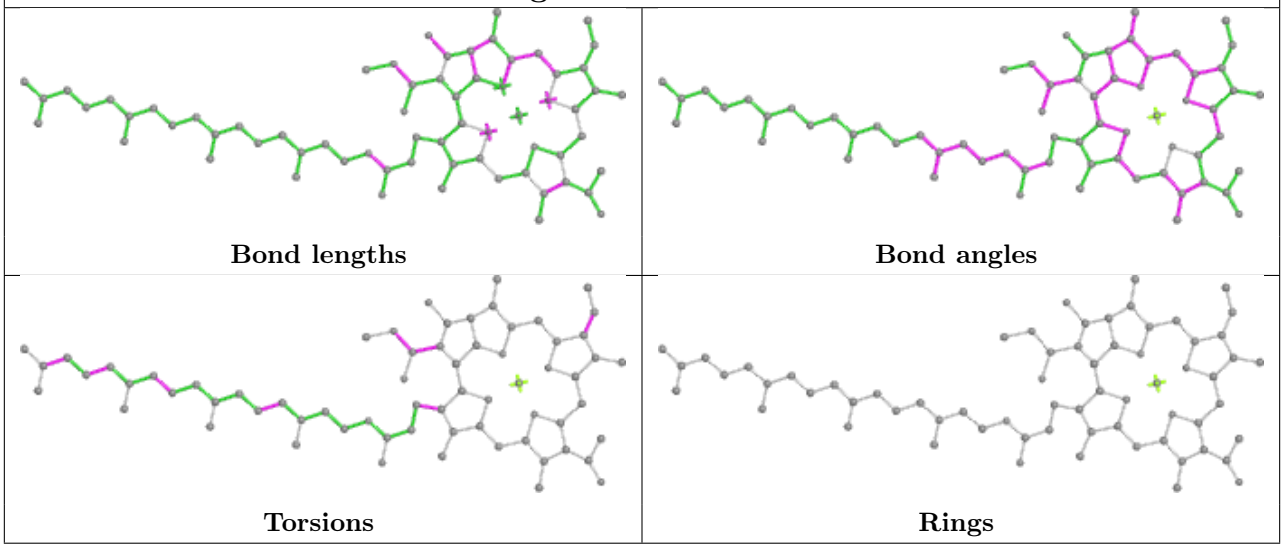
Ligand BGL H 107



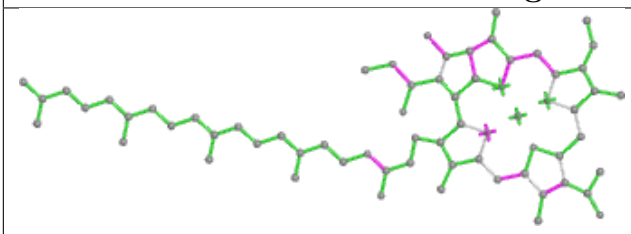
Ligand BCL P 101



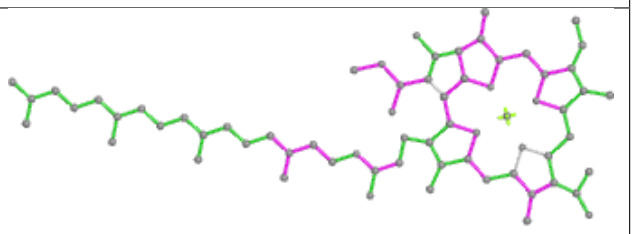
Ligand BCL 9 102



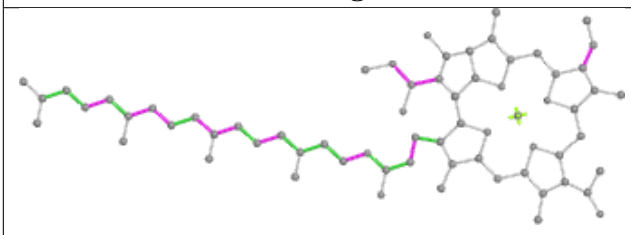
Ligand BCL R 101



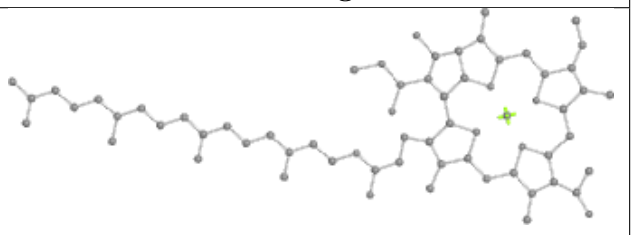
Bond lengths



Bond angles

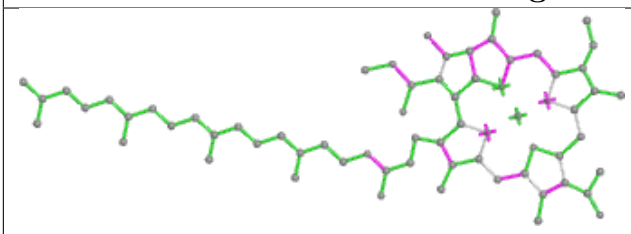


Torsions

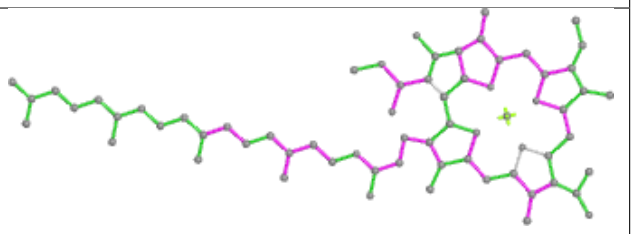


Rings

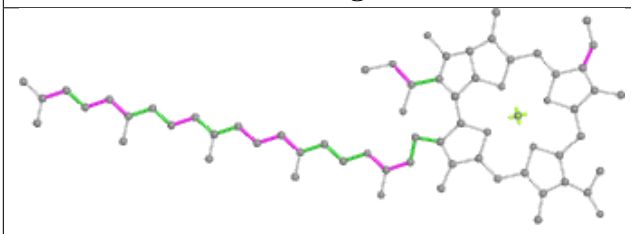
Ligand BCL 8 103



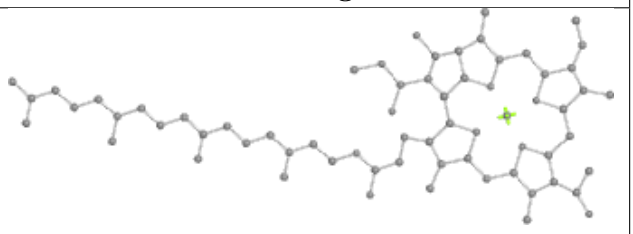
Bond lengths



Bond angles

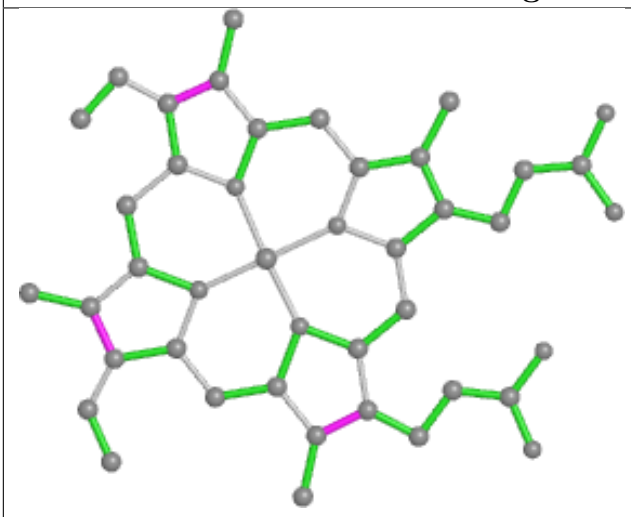


Torsions

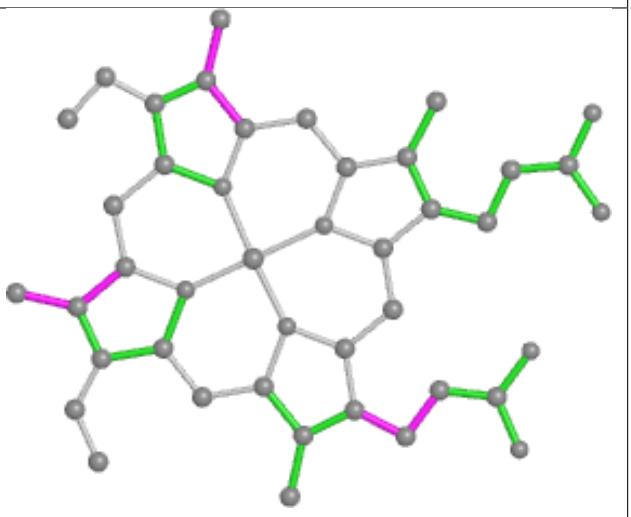


Rings

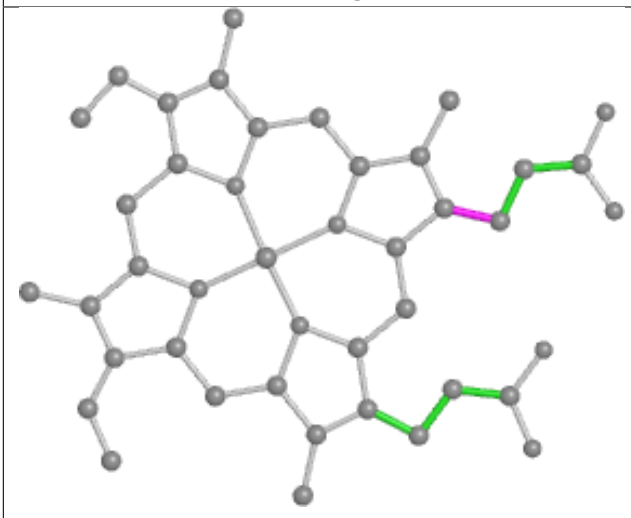
Ligand HEC C 404



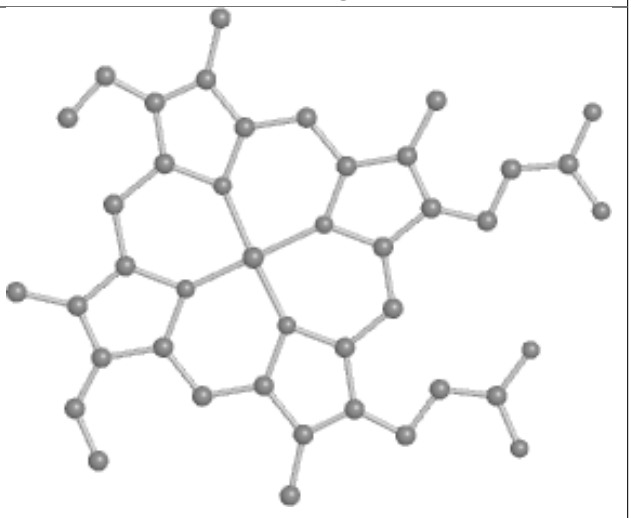
Bond lengths



Bond angles

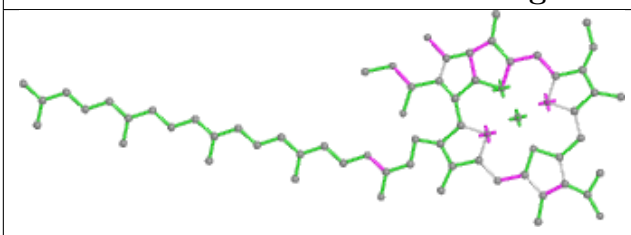


Torsions

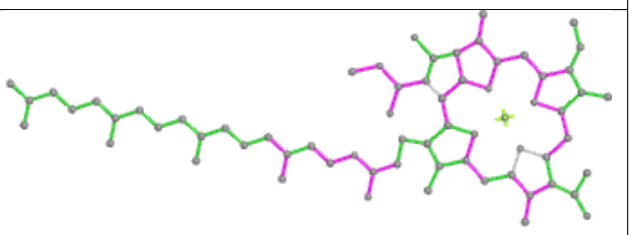


Rings

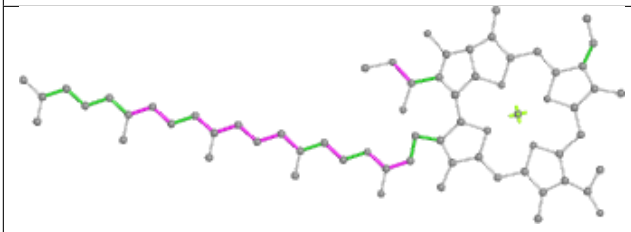
Ligand BCL 2 101



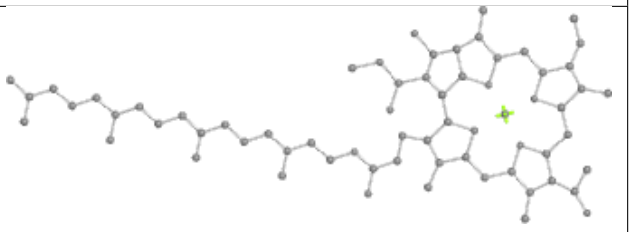
Bond lengths



Bond angles

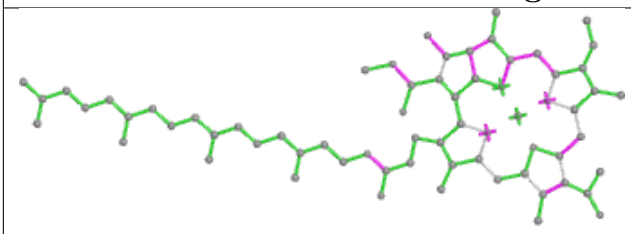


Torsions

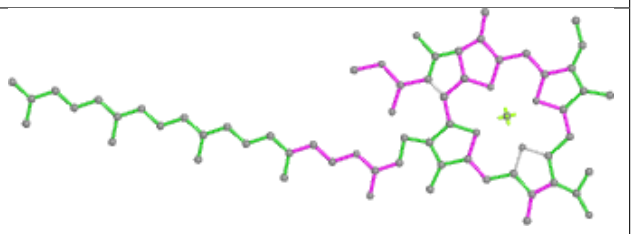


Rings

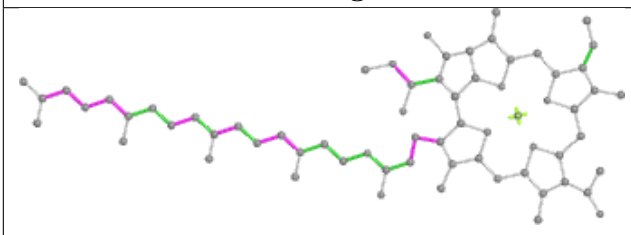
Ligand BCL V 101



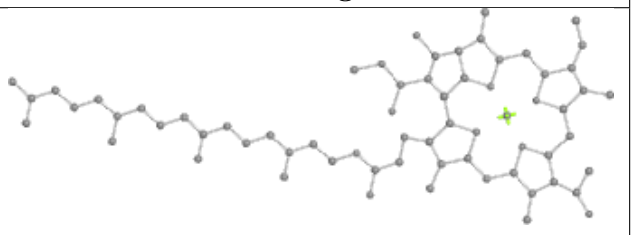
Bond lengths



Bond angles

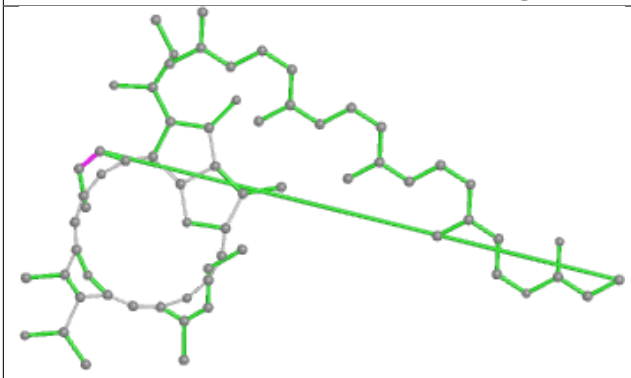


Torsions

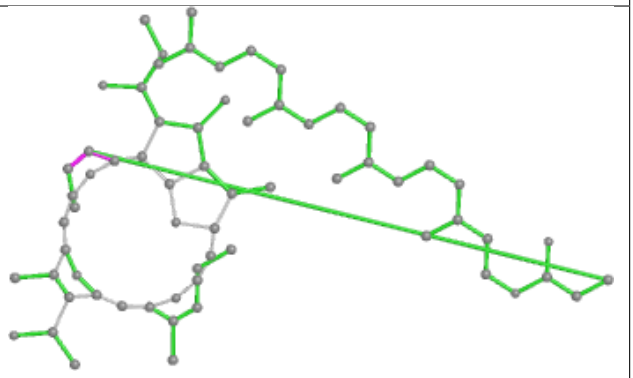


Rings

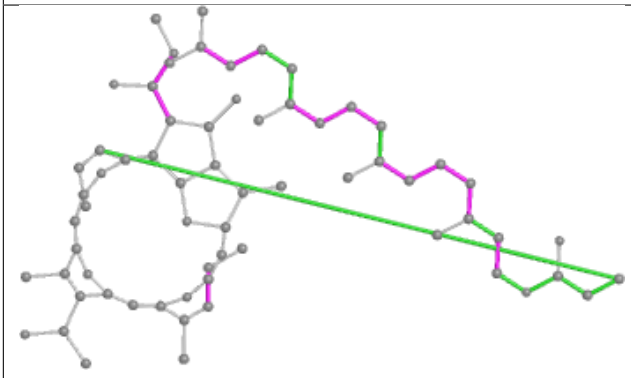
Ligand BPH L 1005



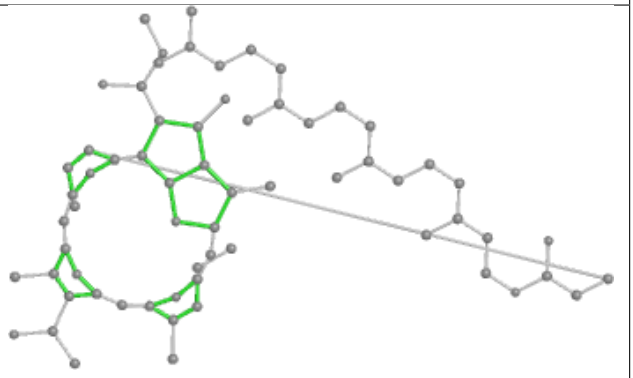
Bond lengths



Bond angles

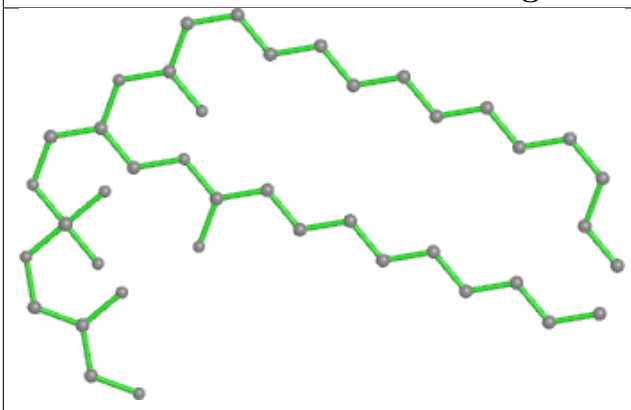


Torsions

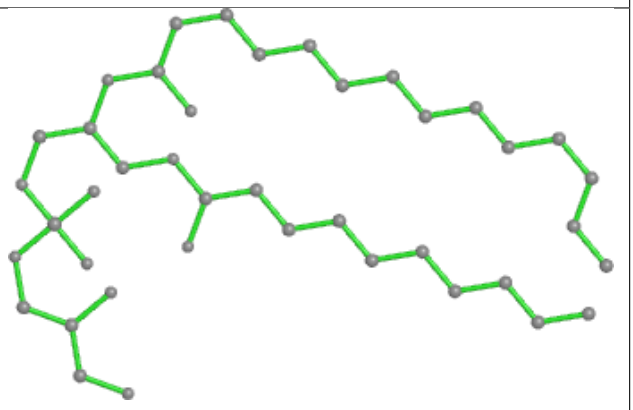


Rings

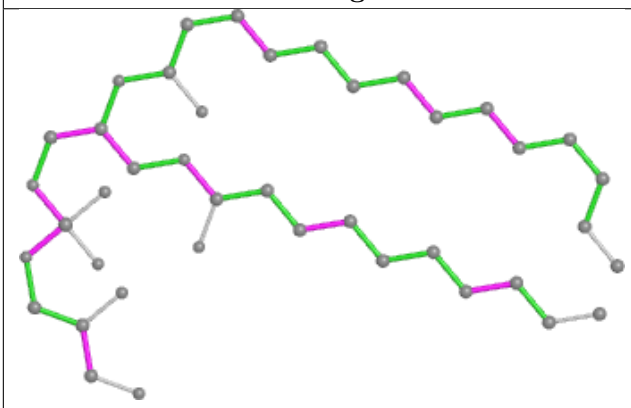
Ligand PGV C 407



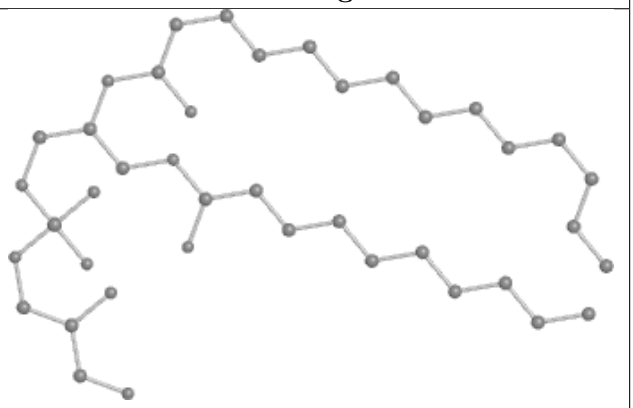
Bond lengths



Bond angles

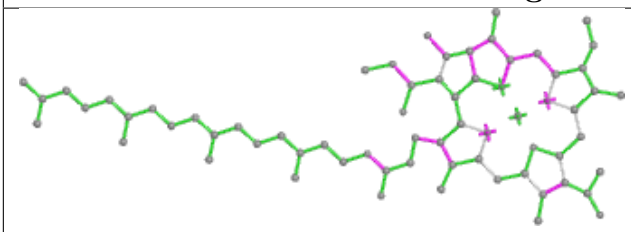


Torsions

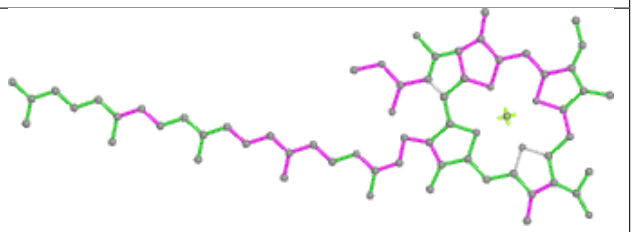


Rings

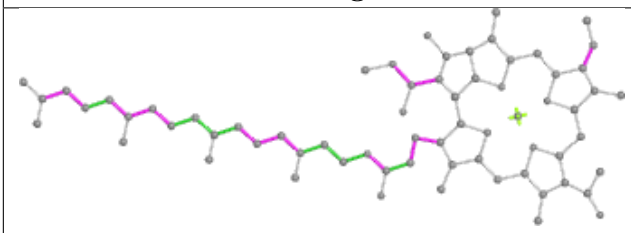
Ligand BCL B 103



Bond lengths



Bond angles



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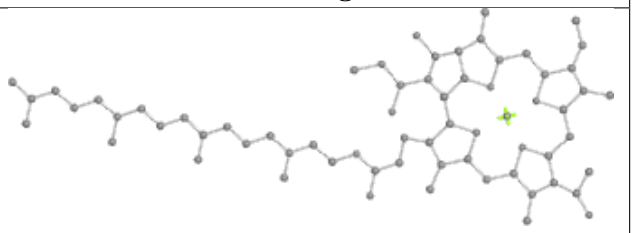
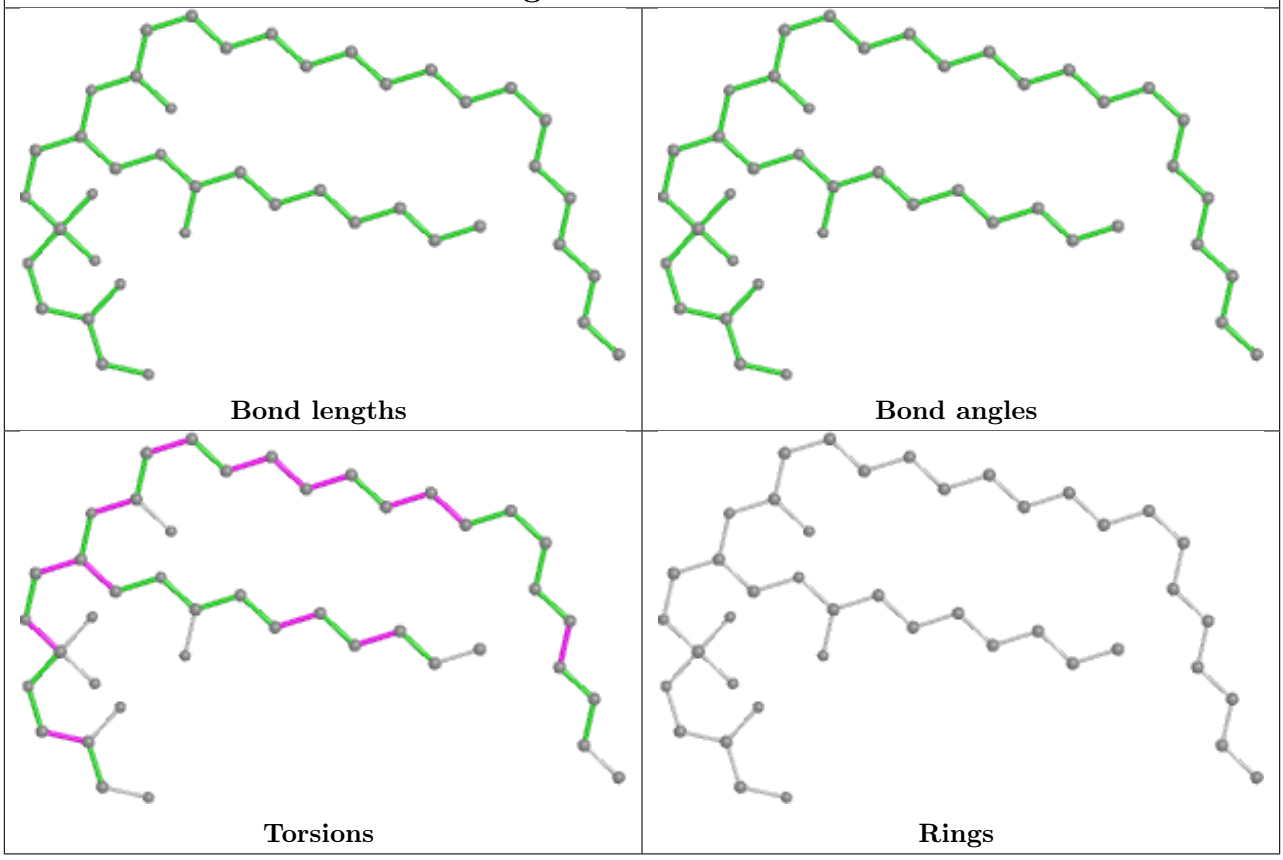
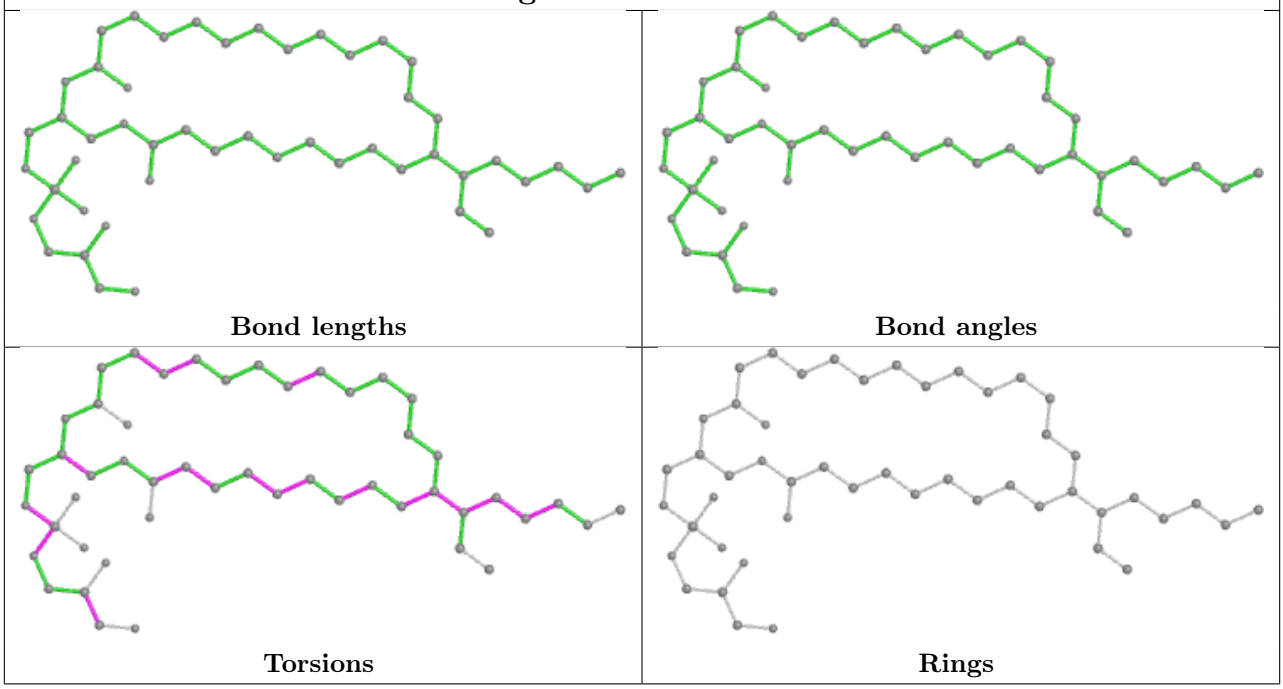


Rings

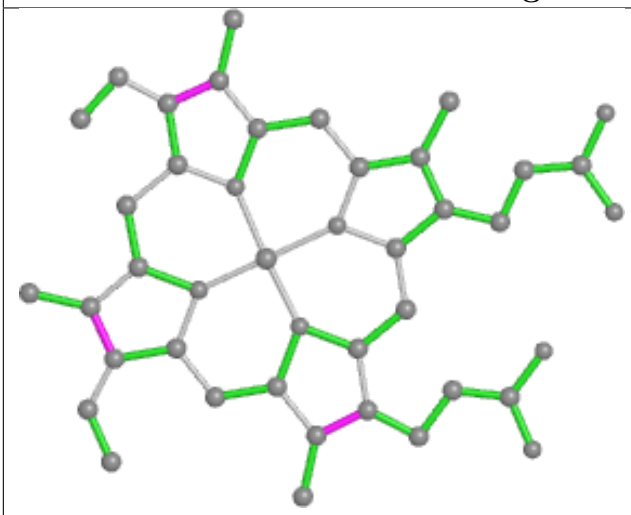
Ligand PGV P 103



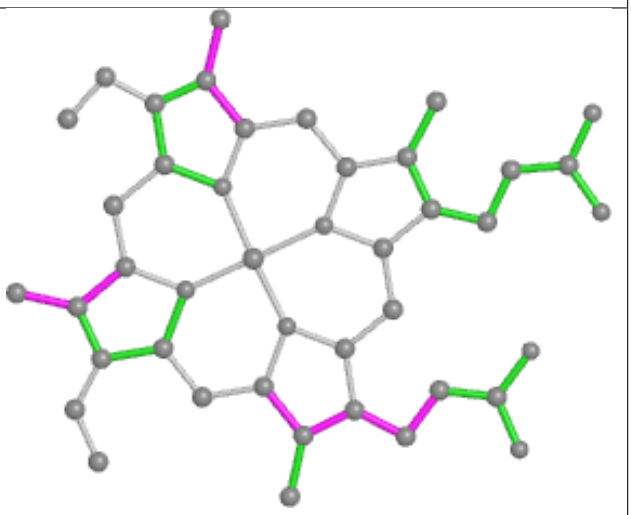
Ligand PGV M 706



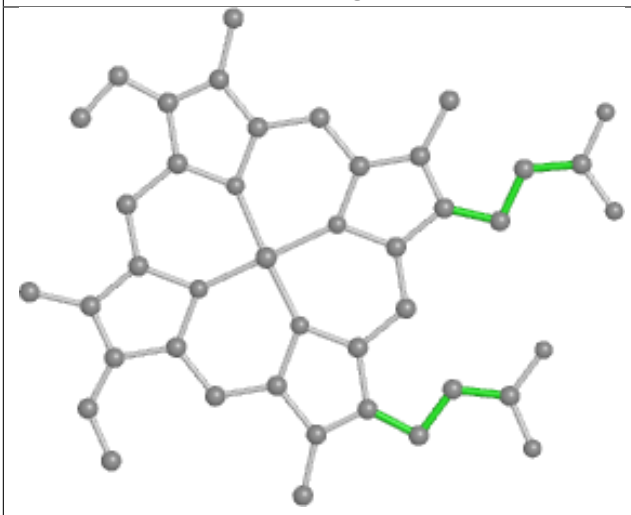
Ligand HEC C 403



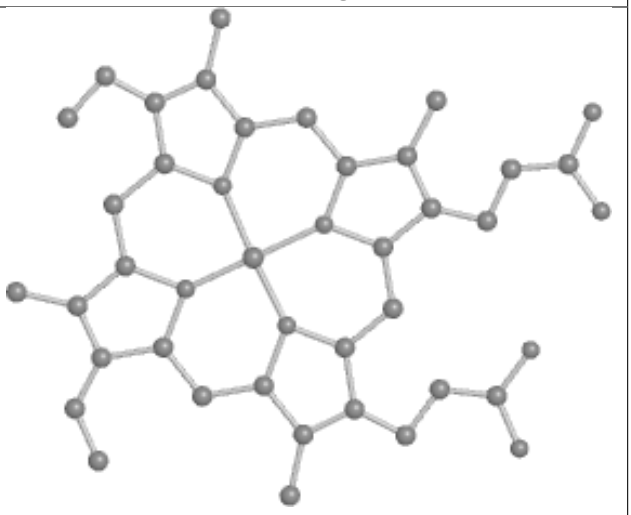
Bond lengths



Bond angles

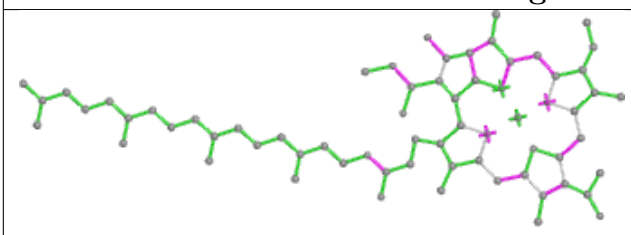


Torsions

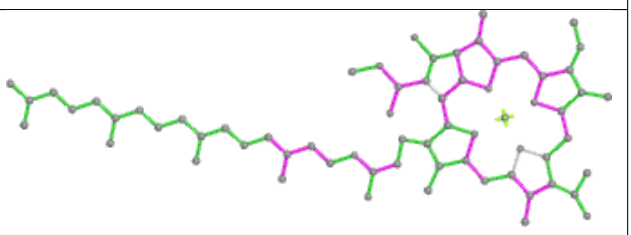


Rings

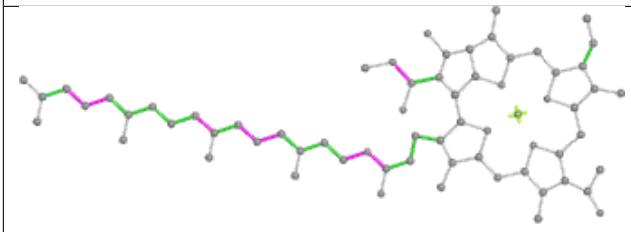
Ligand BCL 0 101



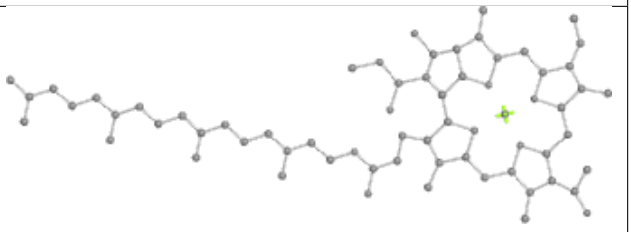
Bond lengths



Bond angles

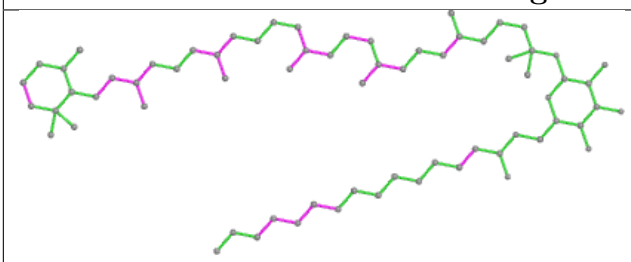


Torsions

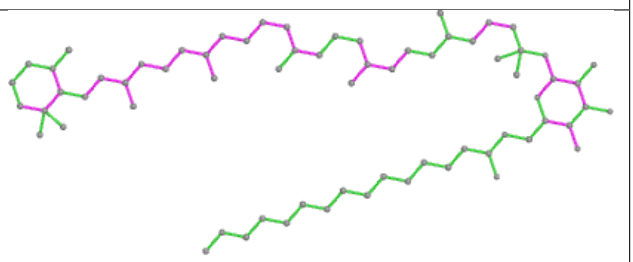


Rings

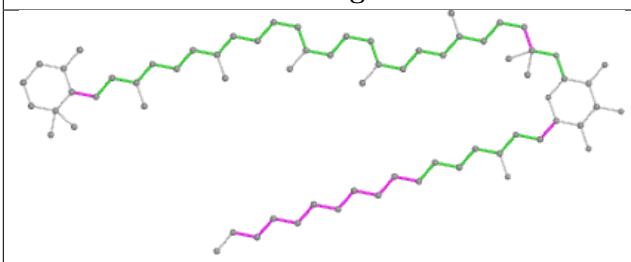
Ligand U42 B 101



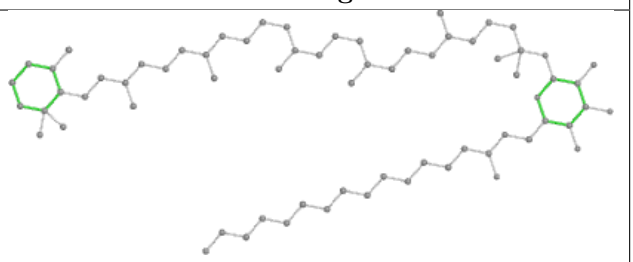
Bond lengths



Bond angles

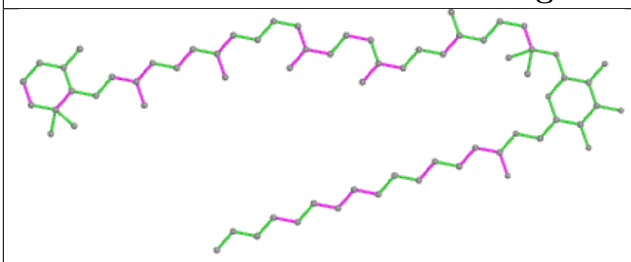


Torsions

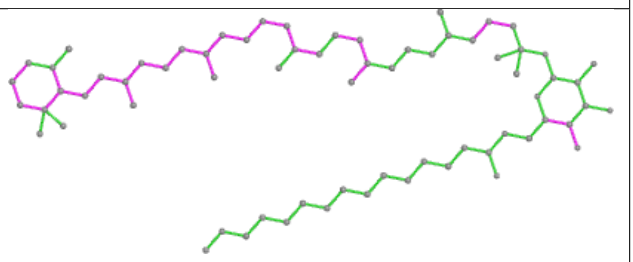


Rings

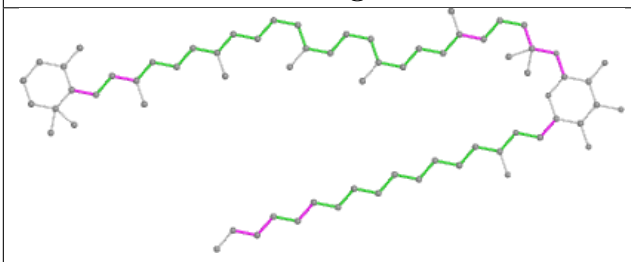
Ligand U42 I 101



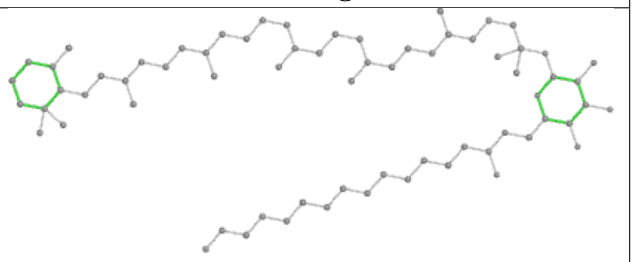
Bond lengths



Bond angles

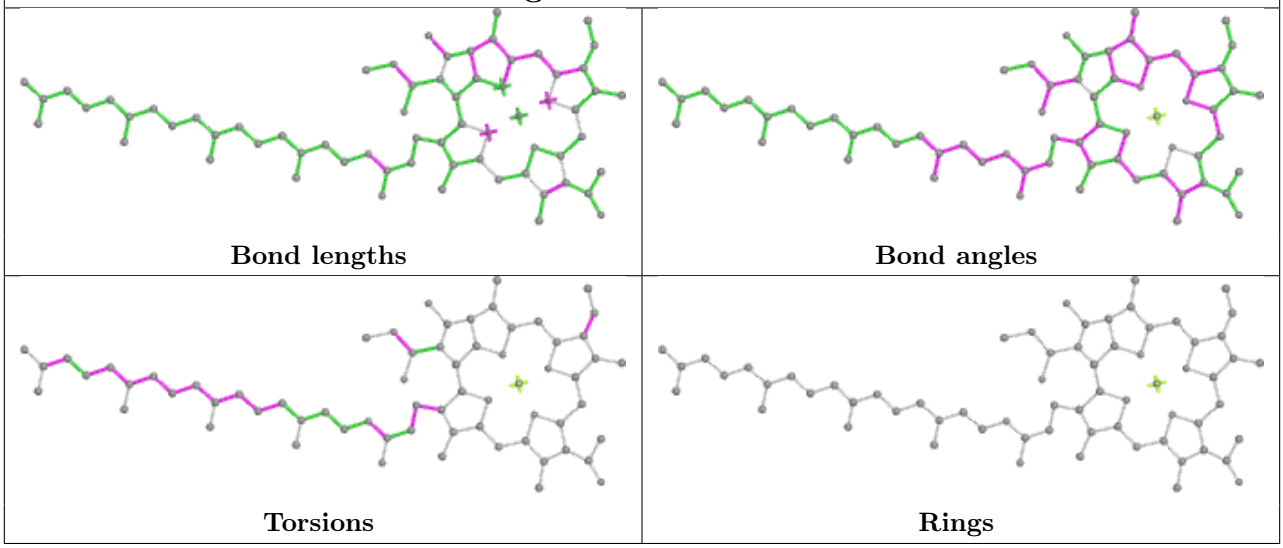


Torsions

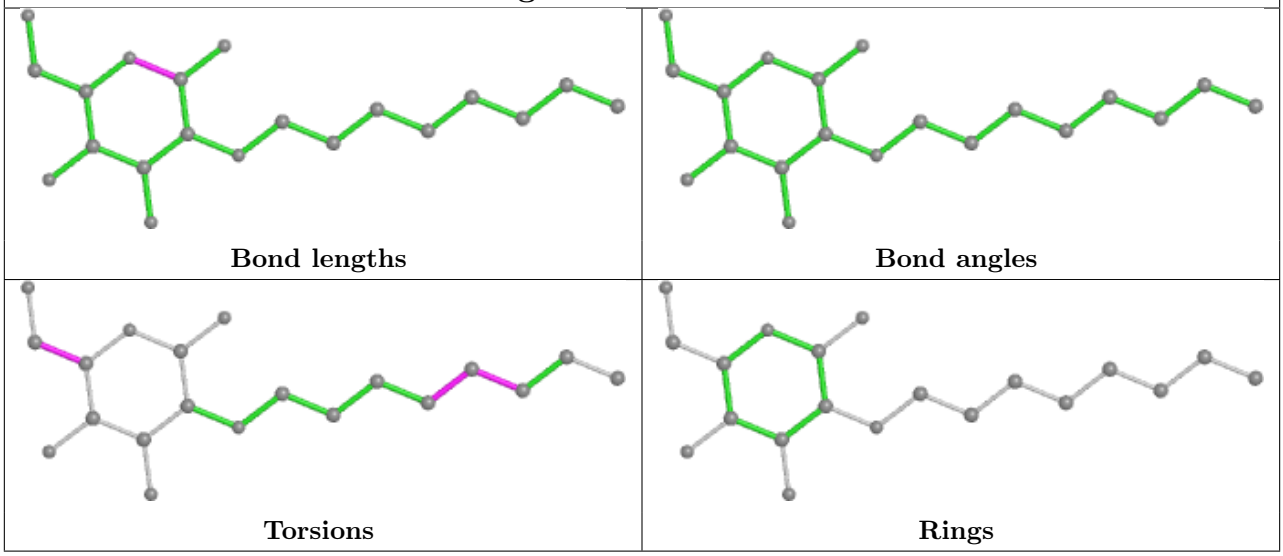


Rings

Ligand BCL G 102



Ligand BGL L 1012



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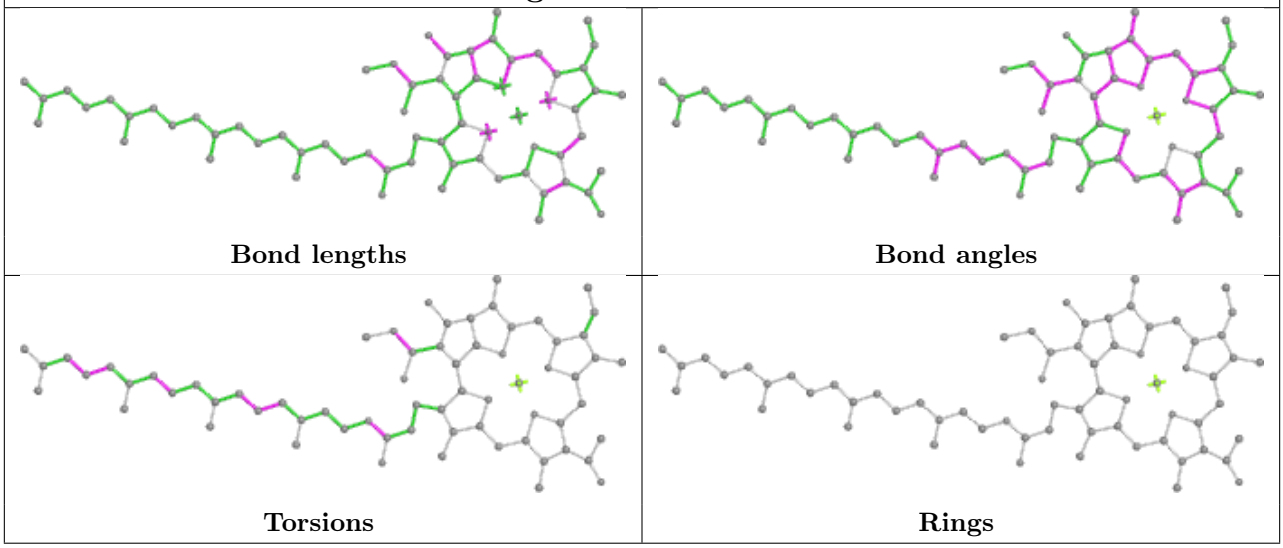
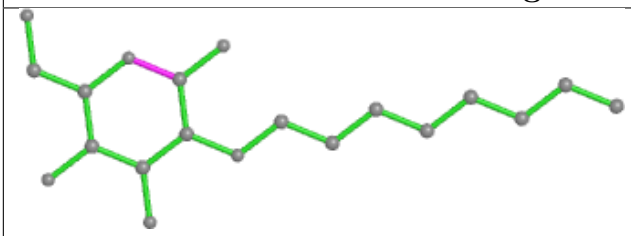
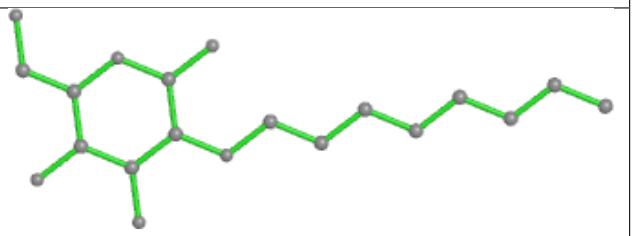


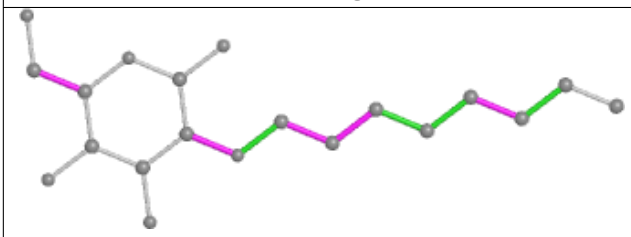
Ligand BGL Y 101



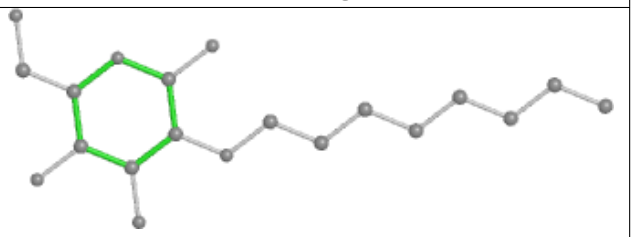
Bond lengths



Bond angles

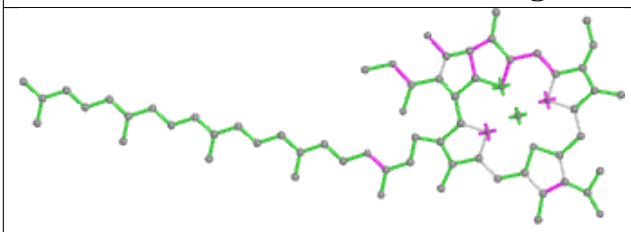


Torsions



Rings

Ligand BCL J 101



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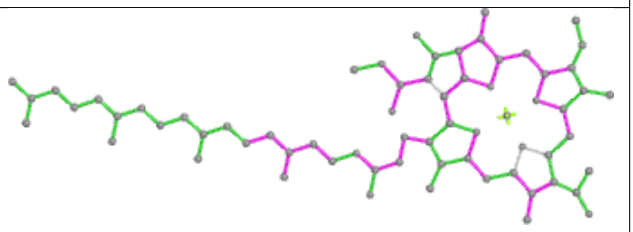

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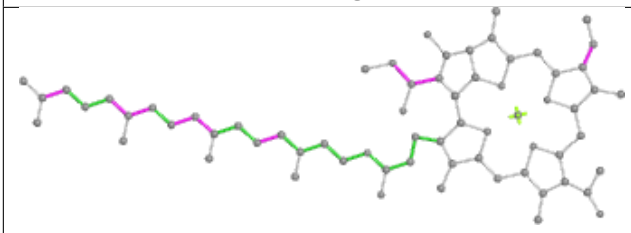
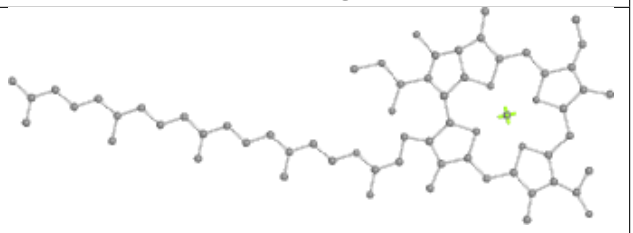
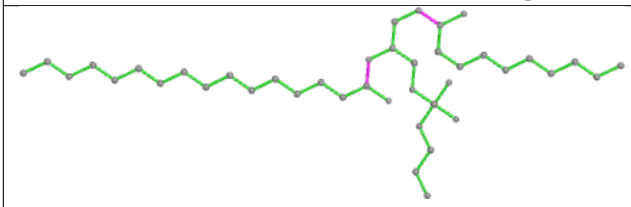


Torsions



Rings

Ligand PEF L 1017



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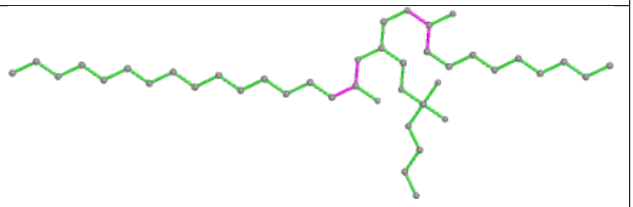
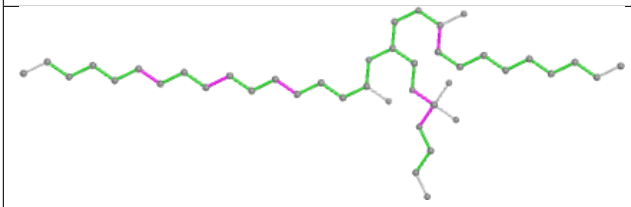


Bond angles



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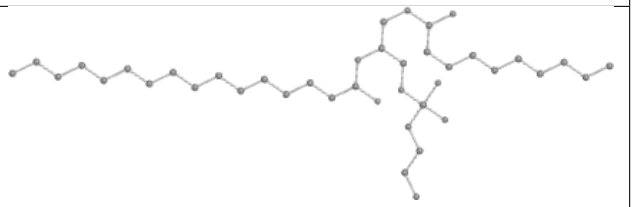
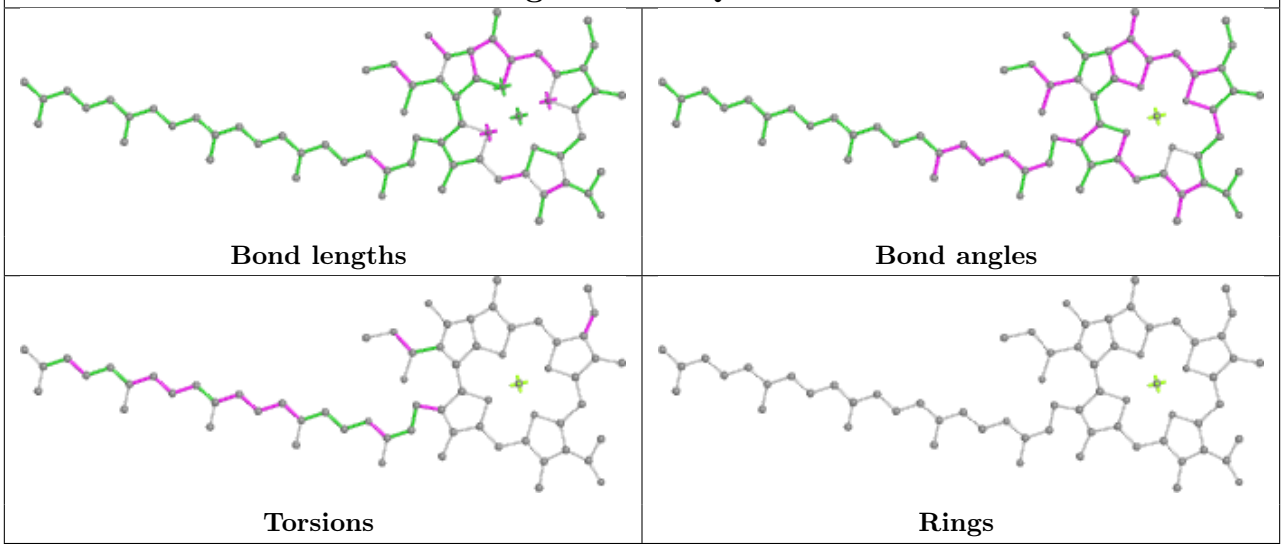
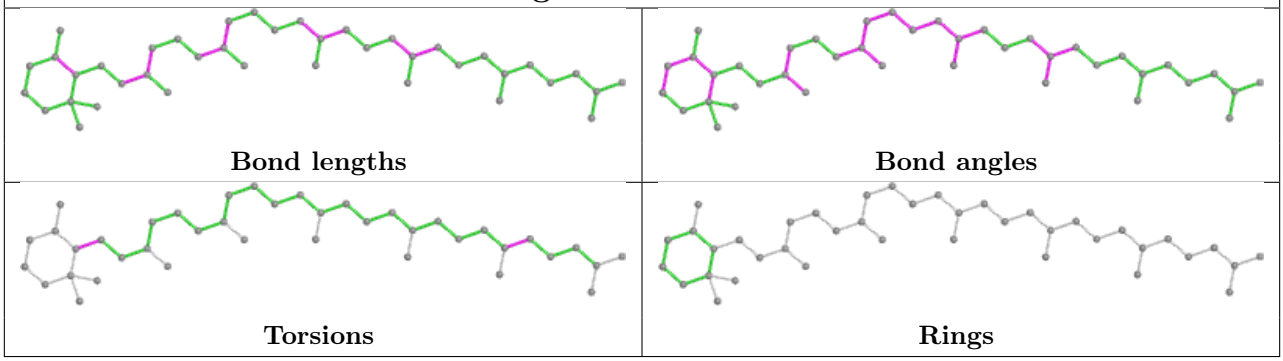


Rings

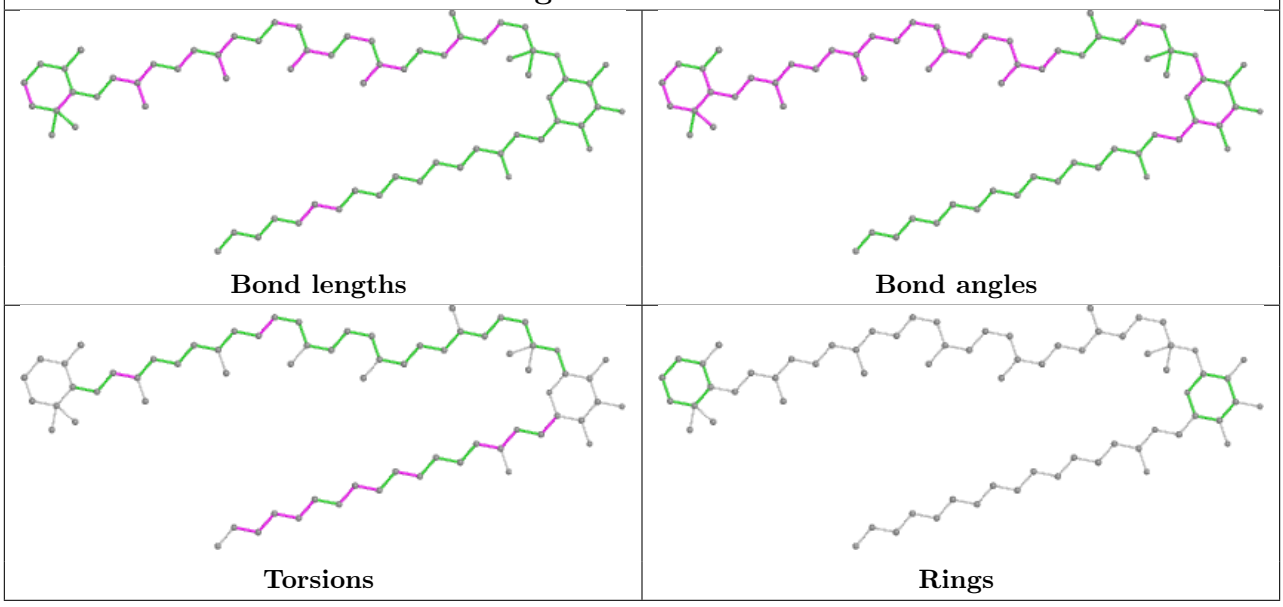
Ligand BCL Q 103



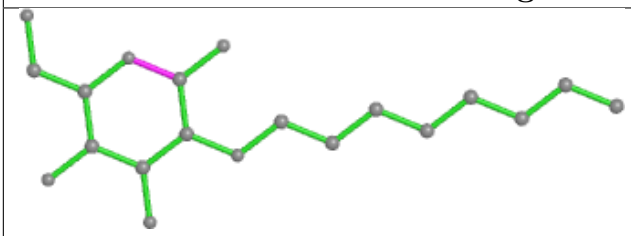
Ligand U4Z 5 102



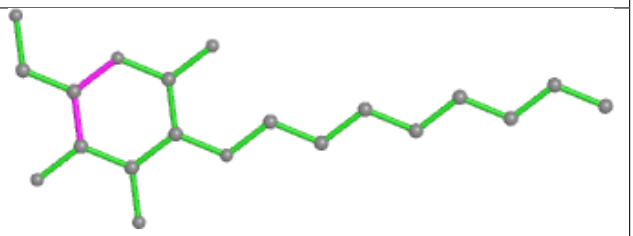
Ligand U42 4 104



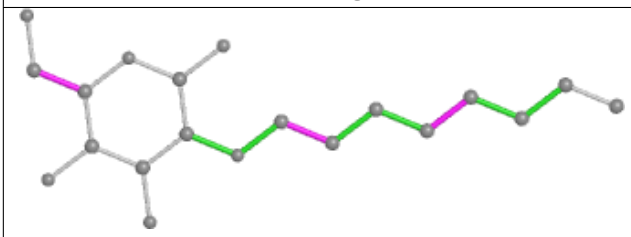
Ligand BGL L 1011



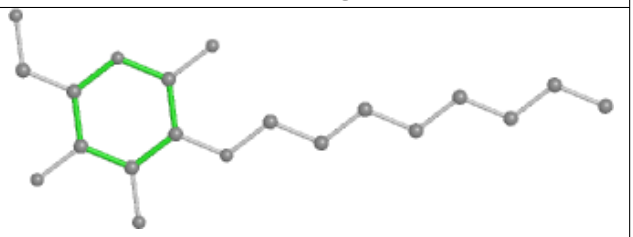
Bond lengths



Bond angles

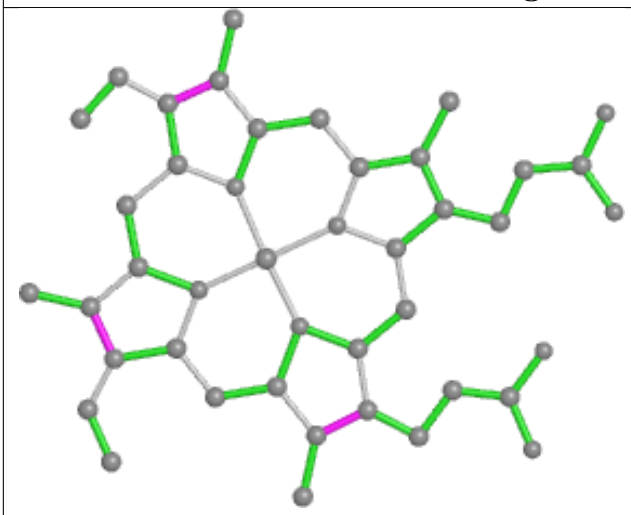


Torsions



Rings

Ligand HEC C 405



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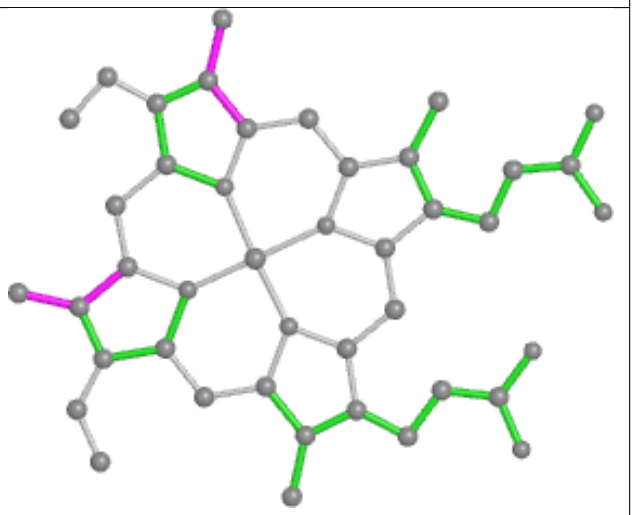
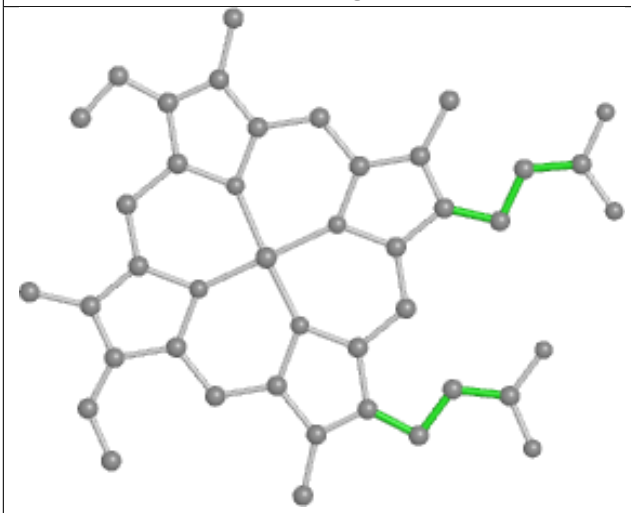
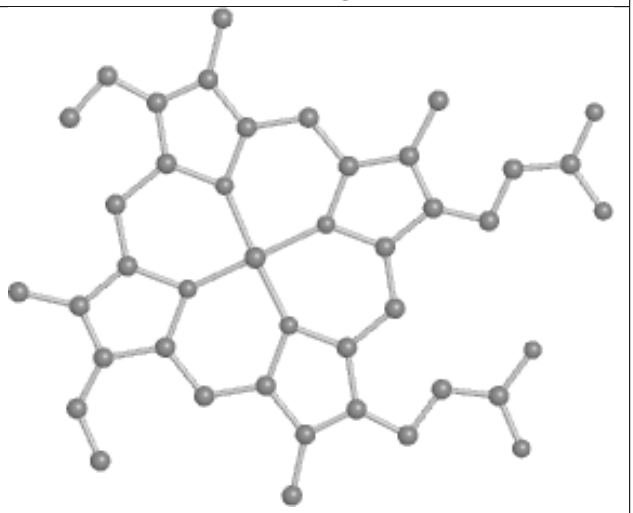


Bond angles

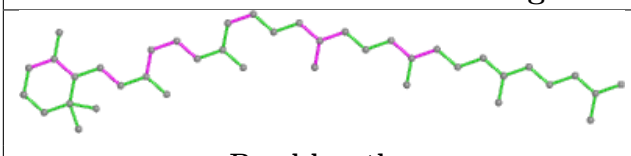


Torsions

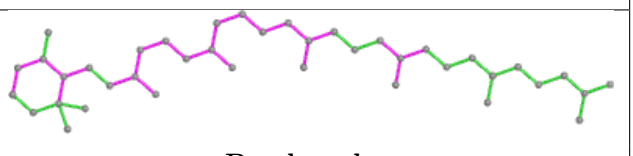


Rings

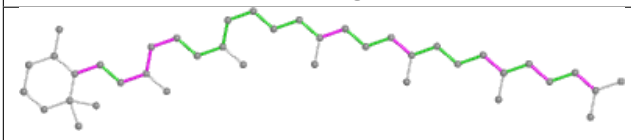
Ligand U4Z C 401



Bond lengths



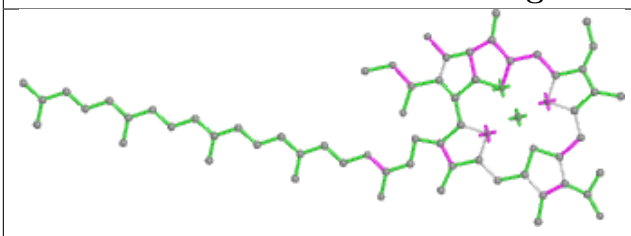
Bond angles



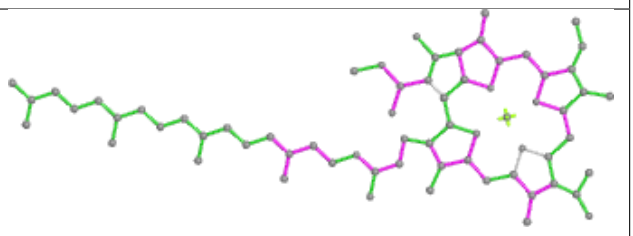
Torsions

Rings

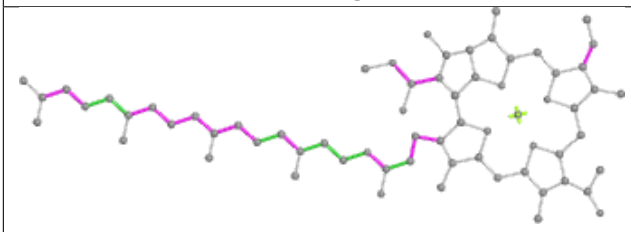
Ligand BCL E 102



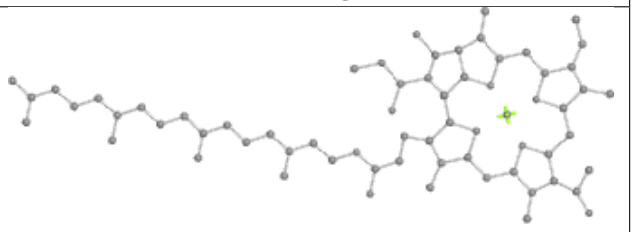
Bond lengths



Bond angles

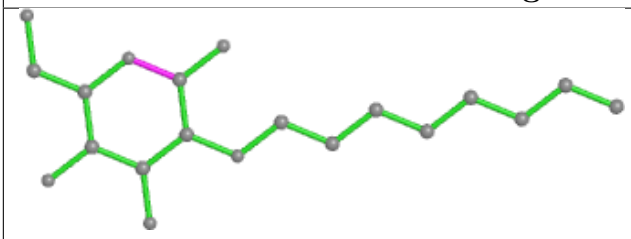


Torsions



Rings

Ligand BGL H 103



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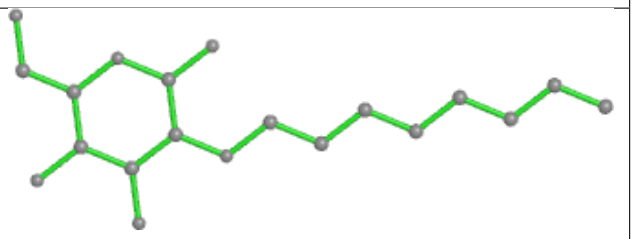
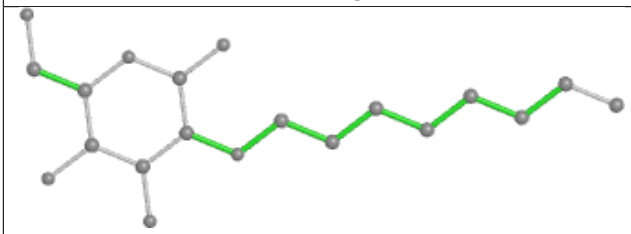


Bond angles



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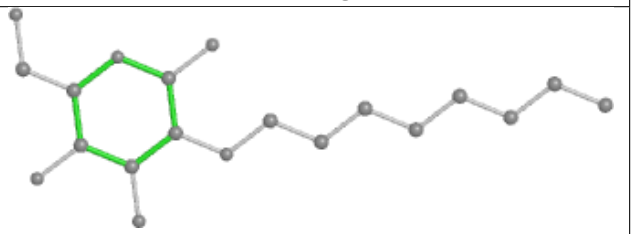
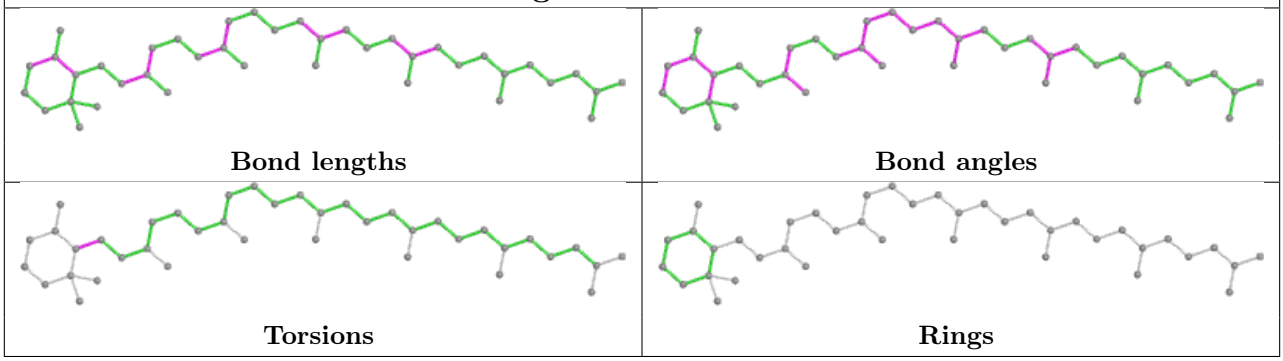
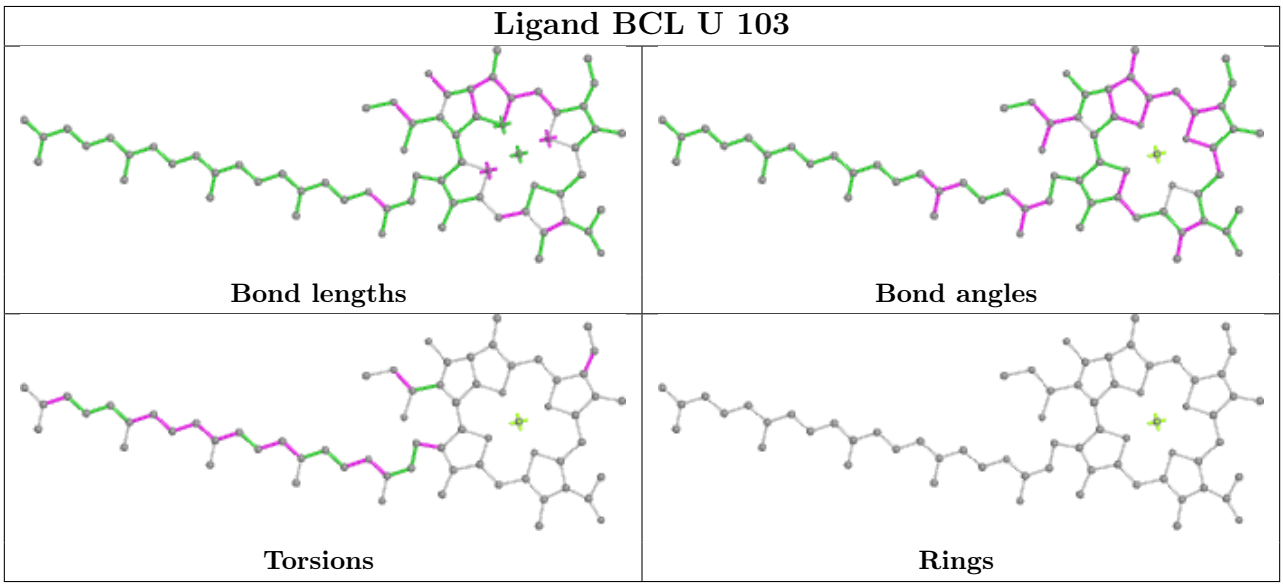


Rings

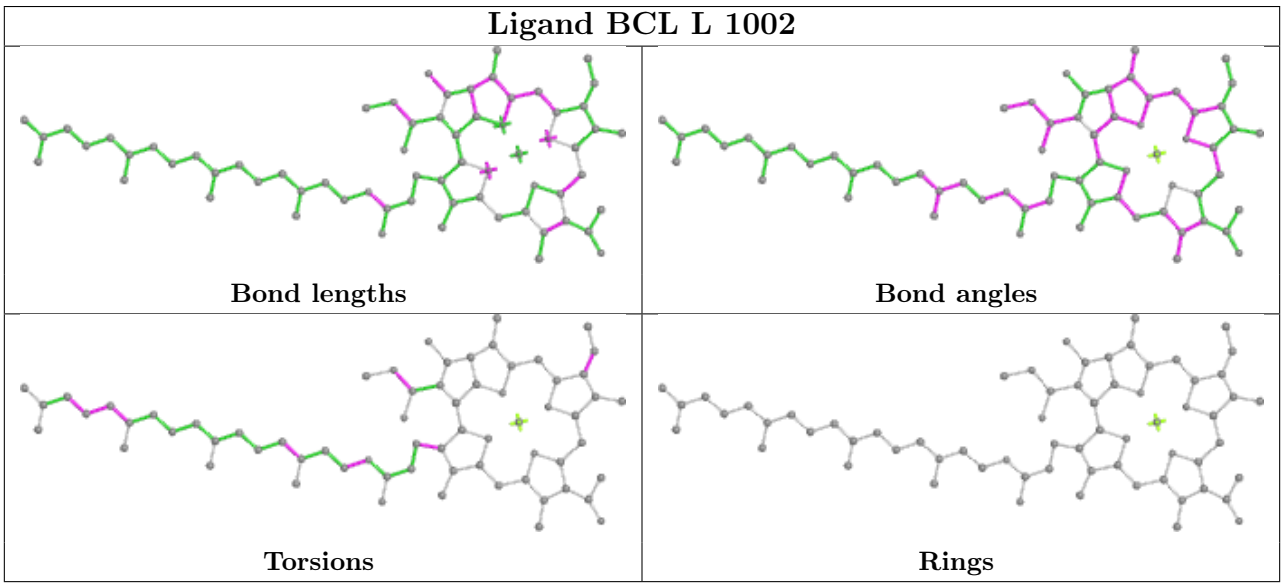
Ligand U4Z 7 102



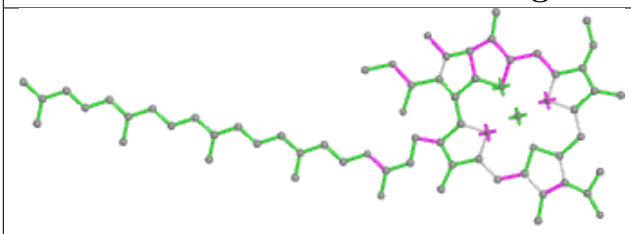
Ligand BCL U 103



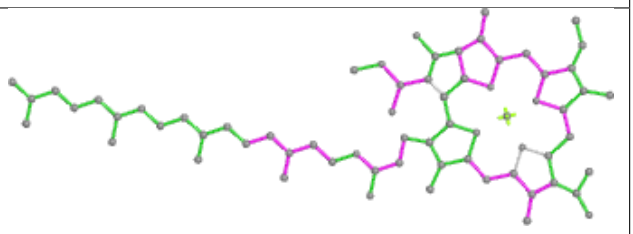
Ligand BCL L 1002



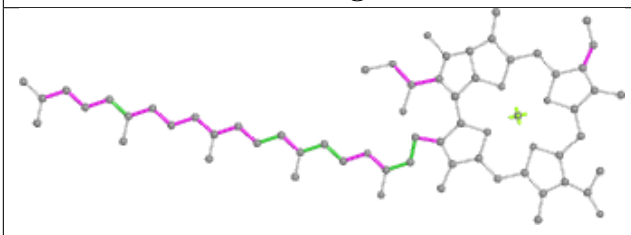
Ligand BCL I 103



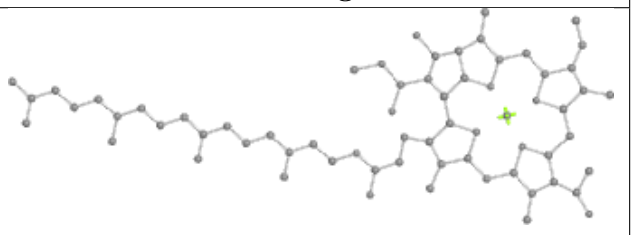
Bond lengths



Bond angles

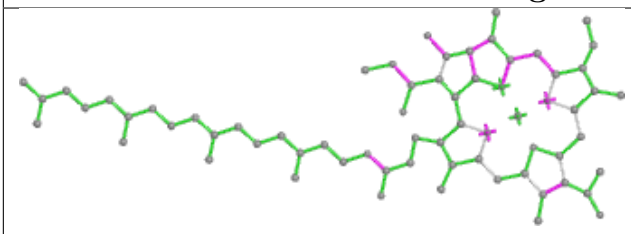


Torsions

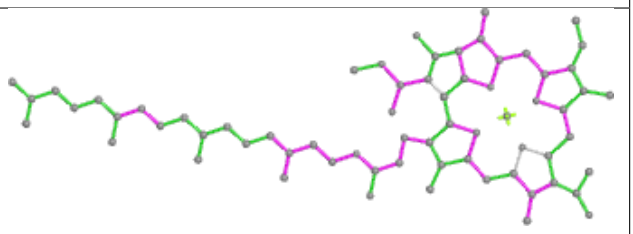


Rings

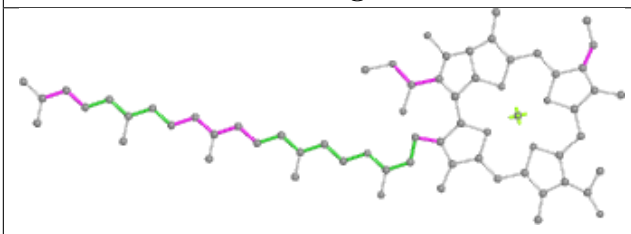
Ligand BCL 5 101



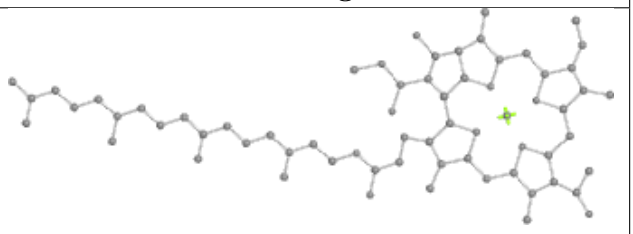
Bond lengths



Bond angles

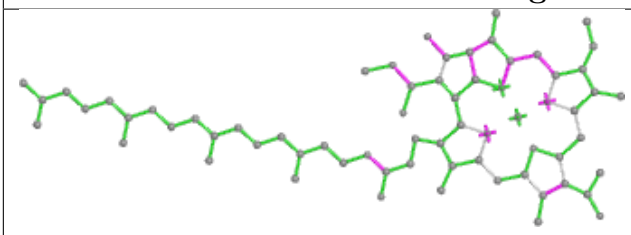


Torsions

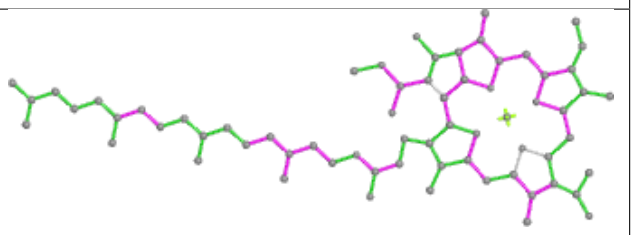


Rings

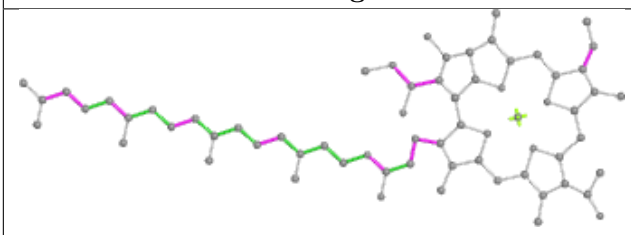
Ligand BCL 3 101



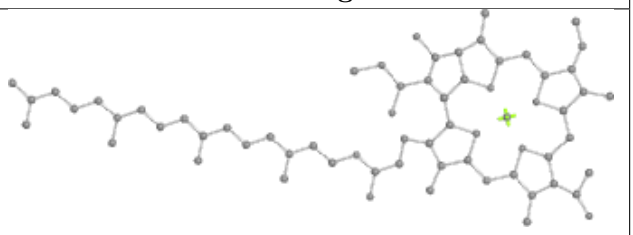
Bond lengths



Bond angles

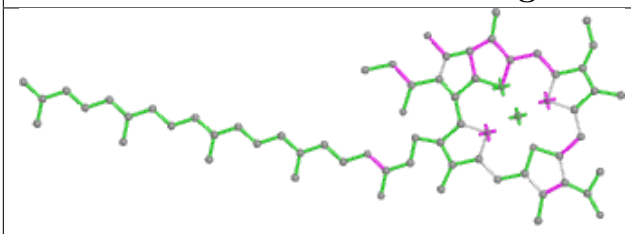


Torsions

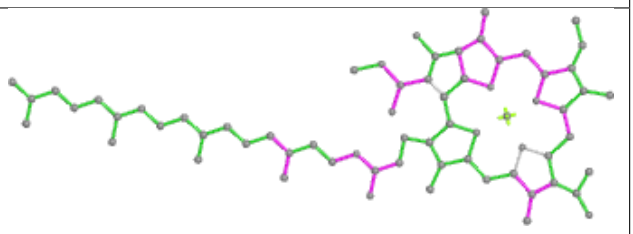


Rings

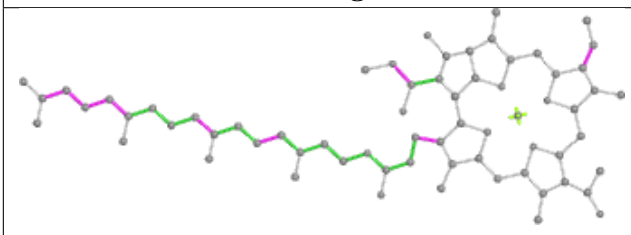
Ligand BCL L 1001



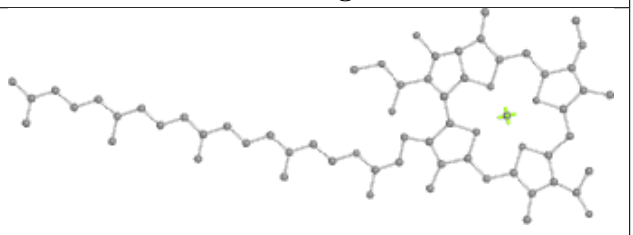
Bond lengths



Bond angles

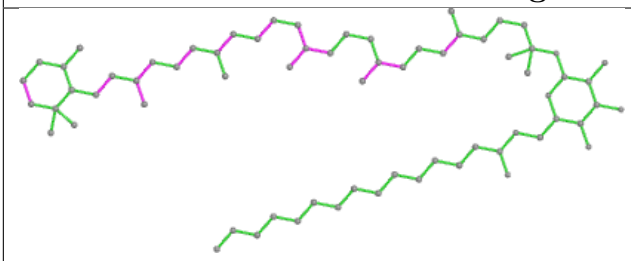


Torsions

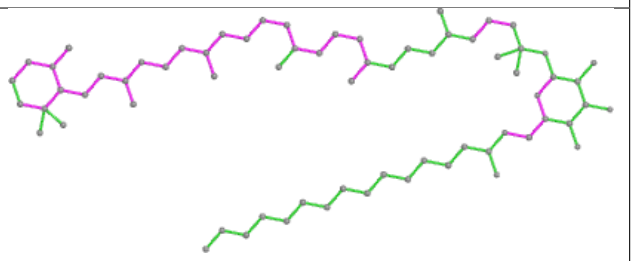


Rings

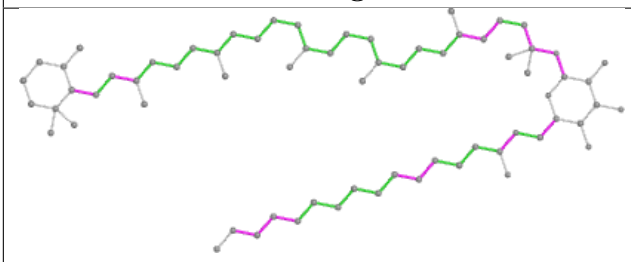
Ligand U42 U 104



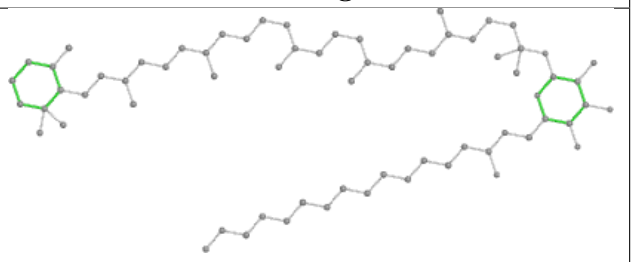
Bond lengths



Bond angles

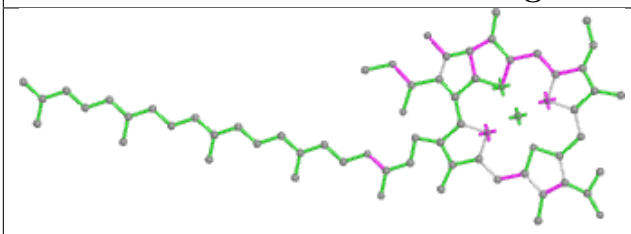


Torsions

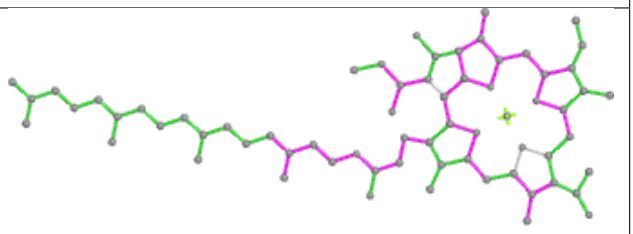


Rings

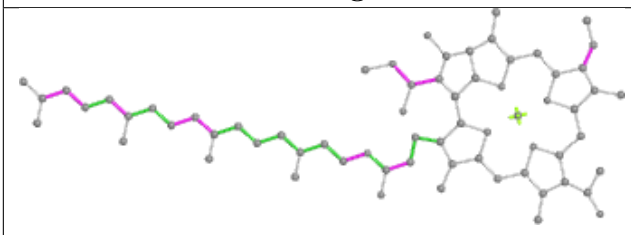
Ligand BCL D 101



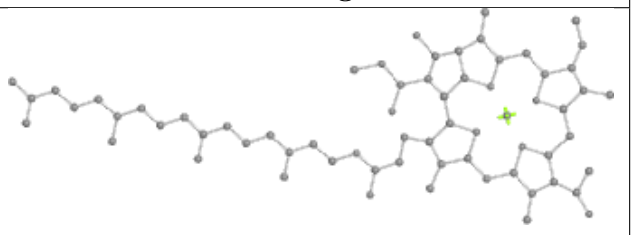
Bond lengths



Bond angles

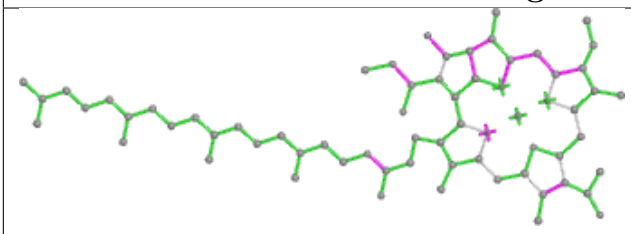


Torsions

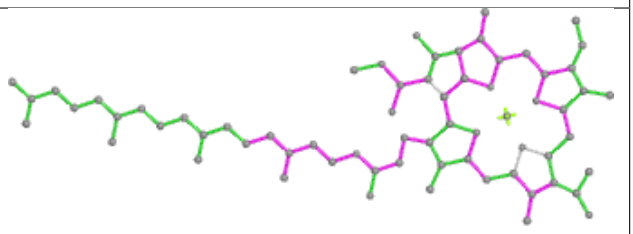


Rings

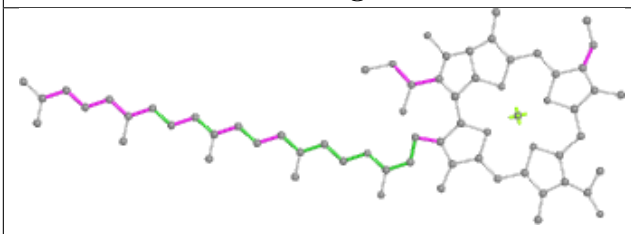
Ligand BCL F 101



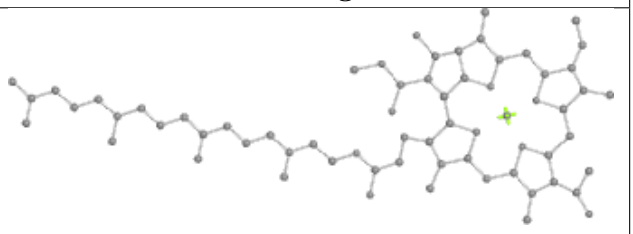
Bond lengths



Bond angles

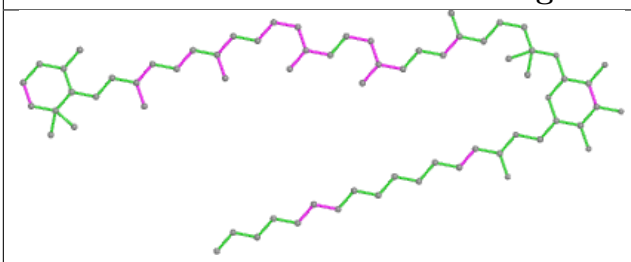


Torsions

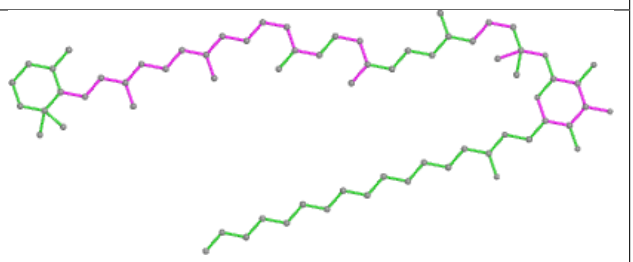


Rings

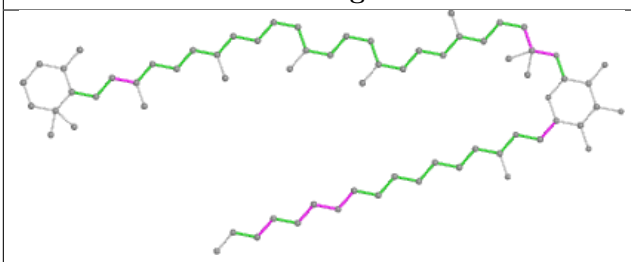
Ligand U42 I 104



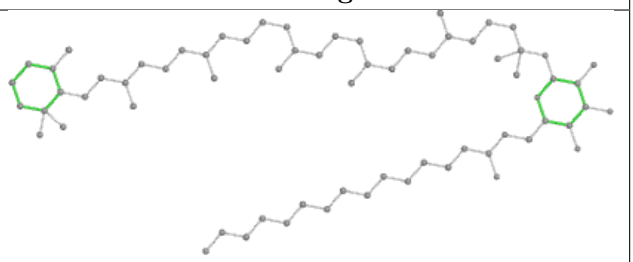
Bond lengths



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.

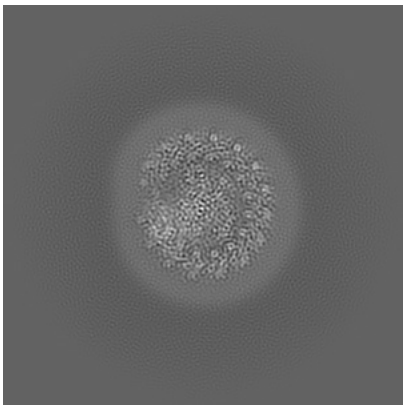
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-35721. These allow visual inspection of the internal detail of the map and identification of artifacts.

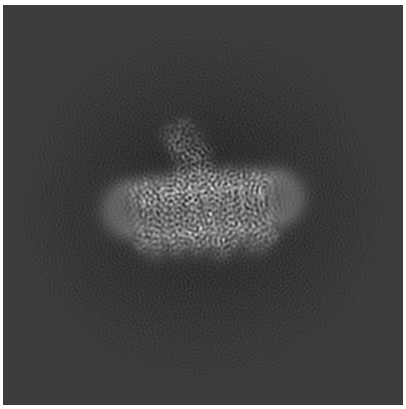
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

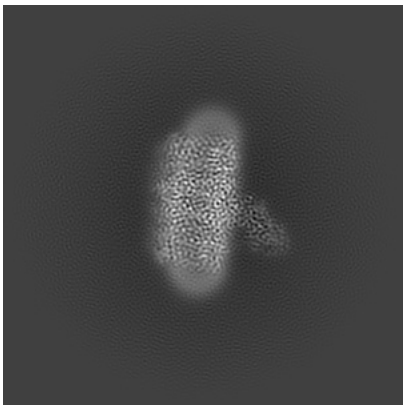
6.1.1 Primary map



X

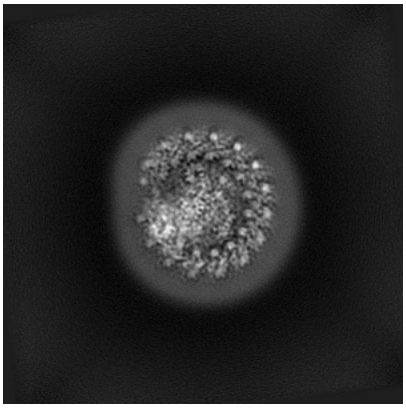


Y

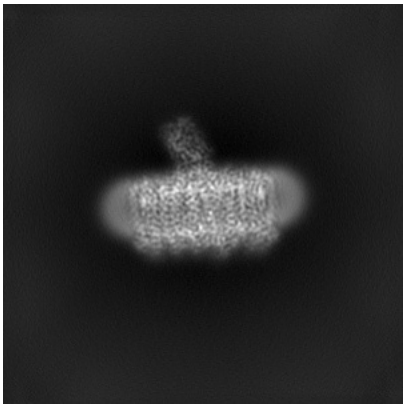


Z

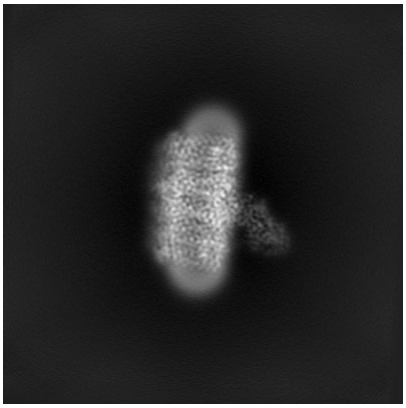
6.1.2 Raw map



X



Y

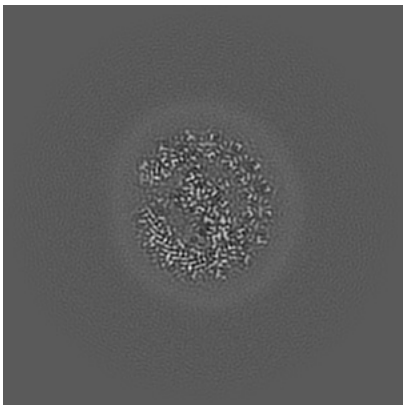


Z

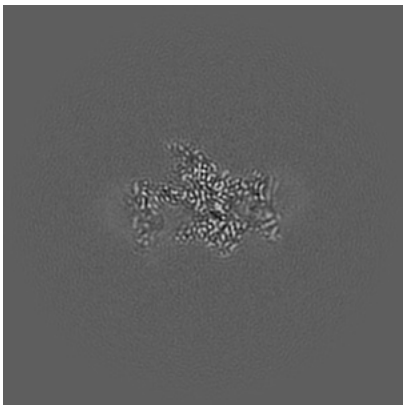
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

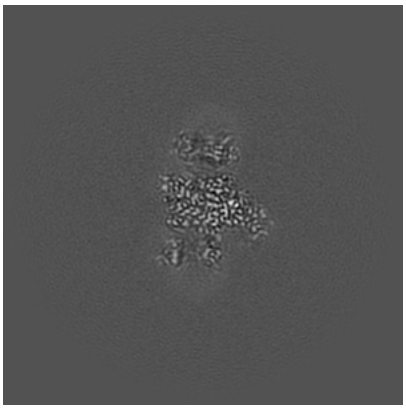
6.2.1 Primary map



X Index: 180

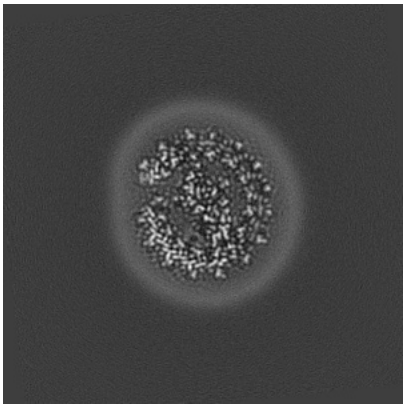


Y Index: 180

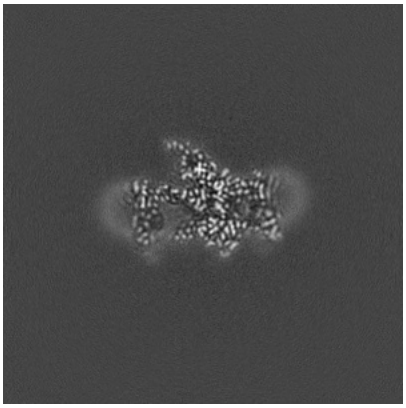


Z Index: 180

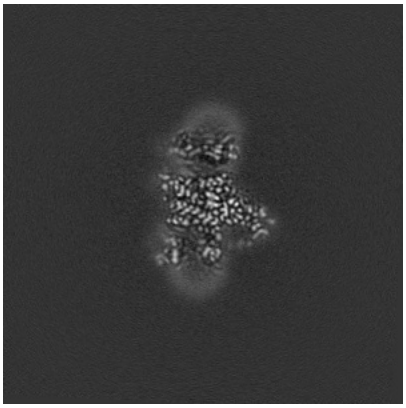
6.2.2 Raw map



X Index: 180



Y Index: 180

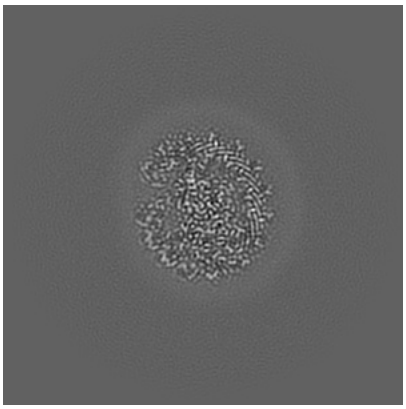


Z Index: 180

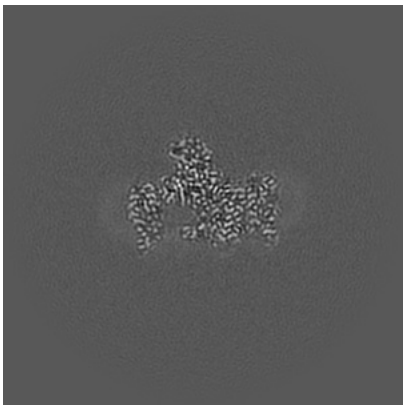
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

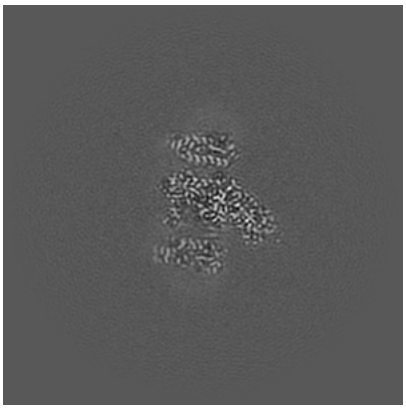
6.3.1 Primary map



X Index: 192

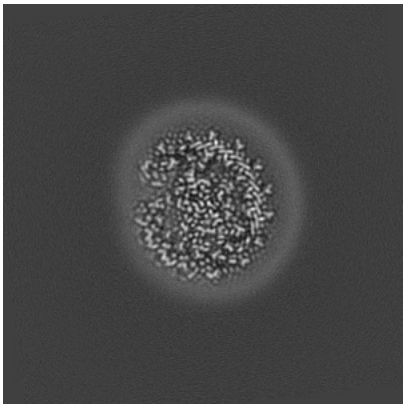


Y Index: 171

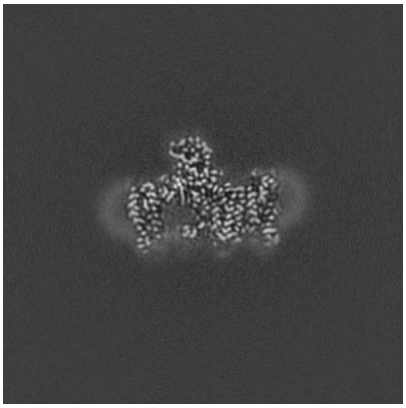


Z Index: 173

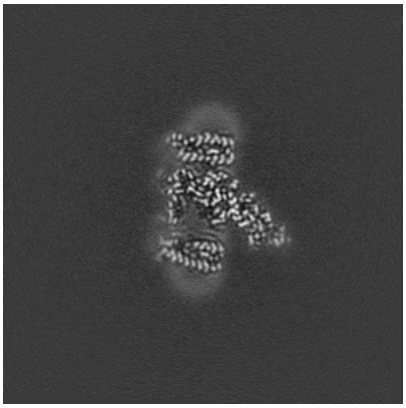
6.3.2 Raw map



X Index: 192



Y Index: 171

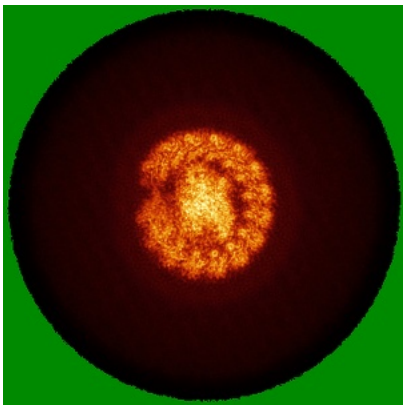


Z Index: 169

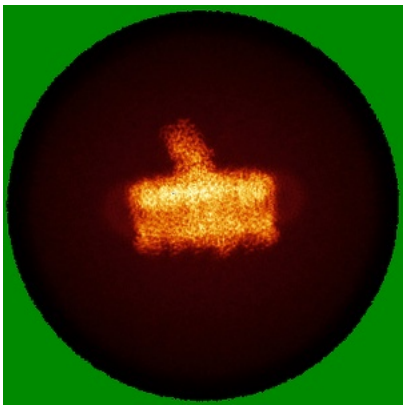
The images above show the largest variance slices of the map in three orthogonal directions.

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

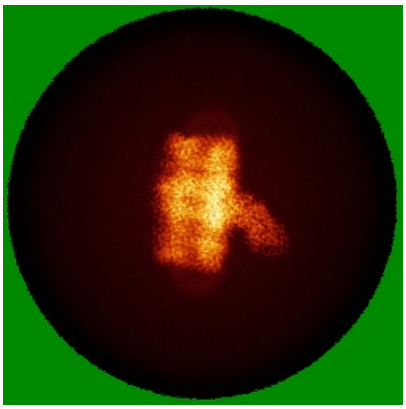
6.4.1 Primary map



X

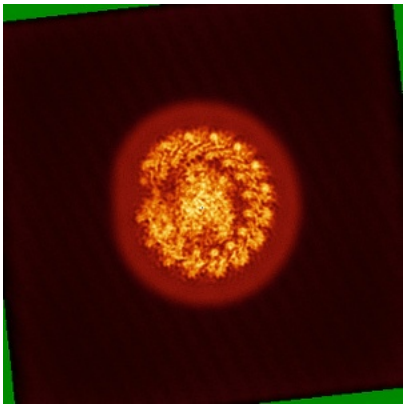


Y

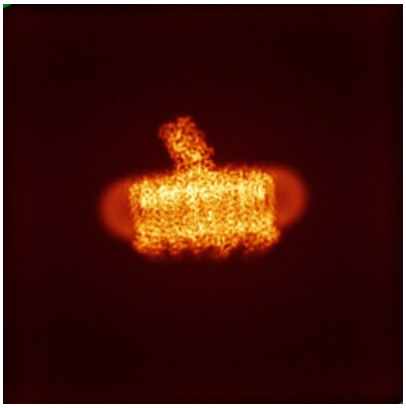


Z

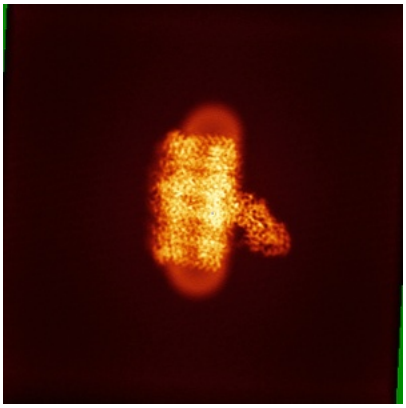
6.4.2 Raw map



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 0.226. 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.

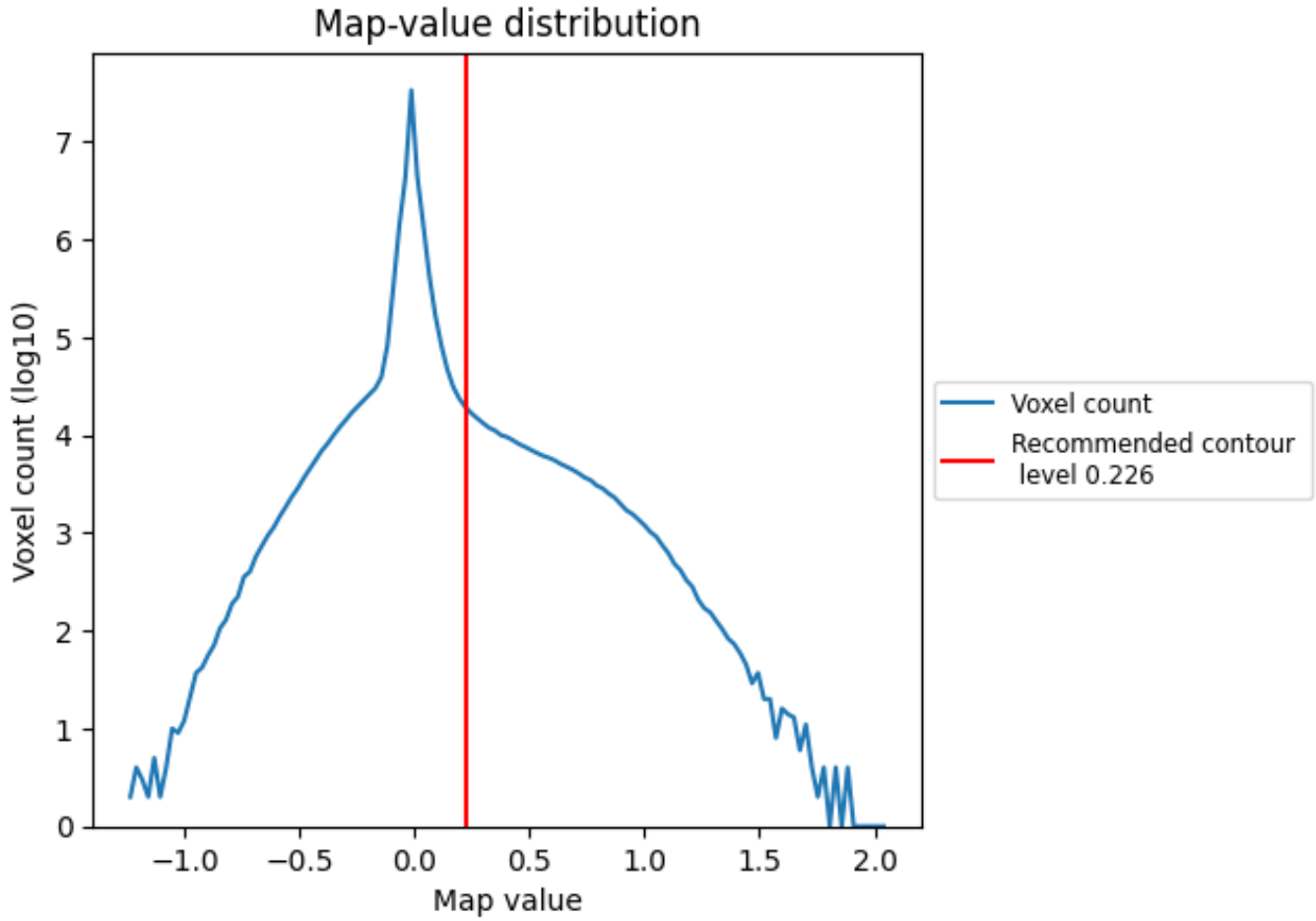
6.6 Mask visualisation (i)

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

7 Map analysis

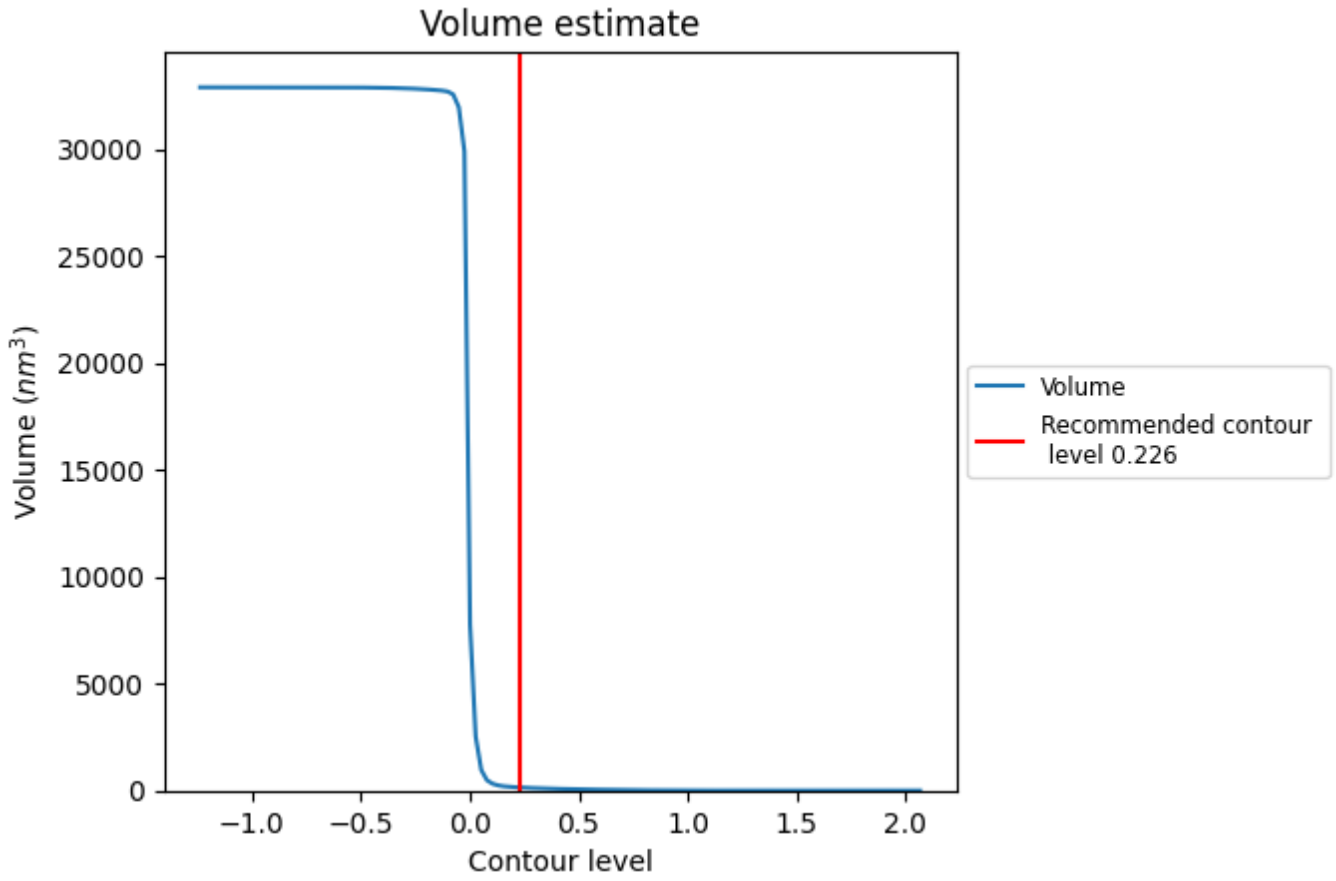
This section contains the results of statistical analysis of the map.

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.

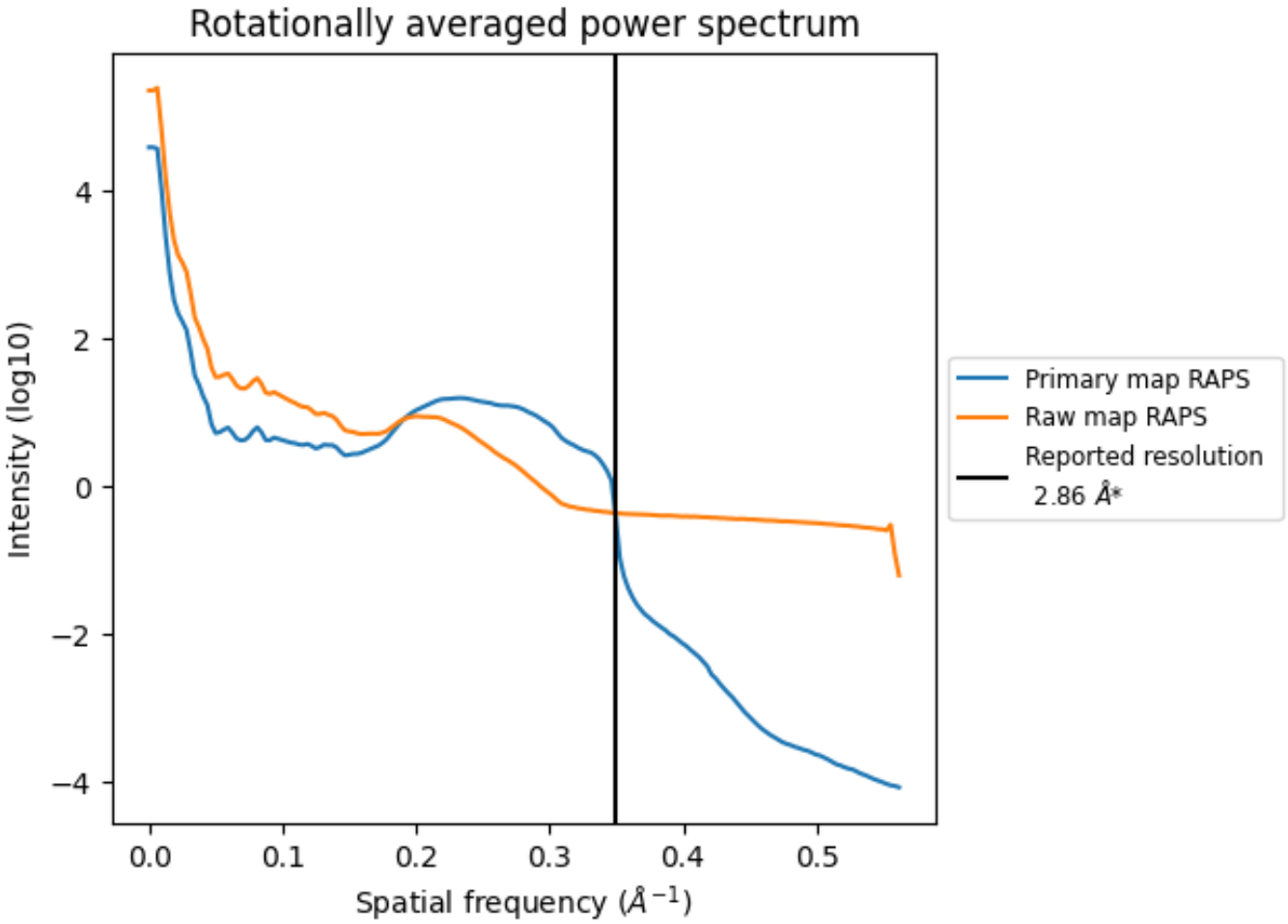
7.2 Volume estimate



The volume at the recommended contour level is 146 nm^3; this corresponds to an approximate mass of 132 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)

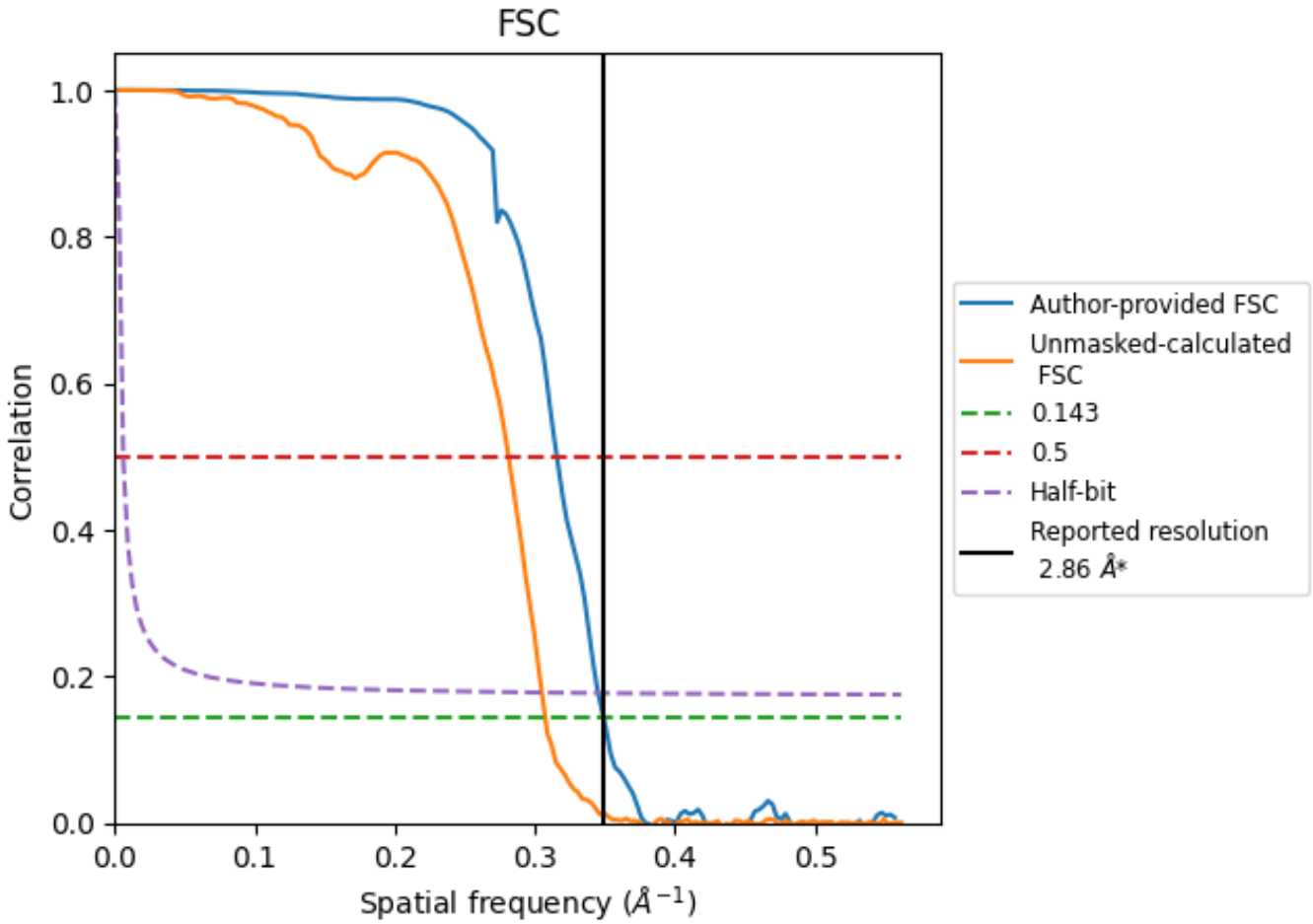


*Reported resolution corresponds to spatial frequency of 0.350 Å^{-1}

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 0.350 Å^{-1}

8.2 Resolution estimates (i)

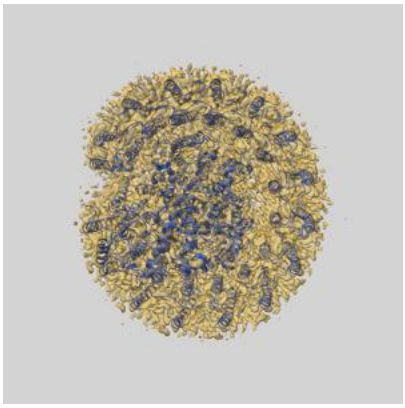
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.86	-	-
Author-provided FSC curve	2.86	3.17	2.90
Unmasked-calculated*	3.25	3.56	3.28

*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 3.25 differs from the reported value 2.86 by more than 10 %

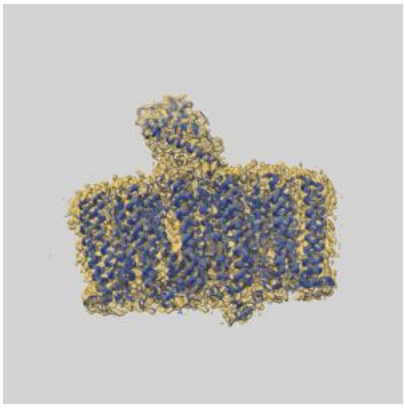
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-35721 and PDB model 8IUG. Per-residue inclusion information can be found in section 3 on page 20.

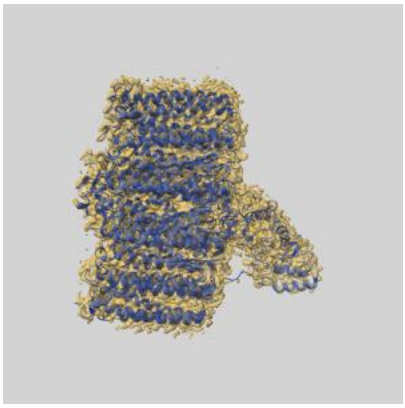
9.1 Map-model overlay



X



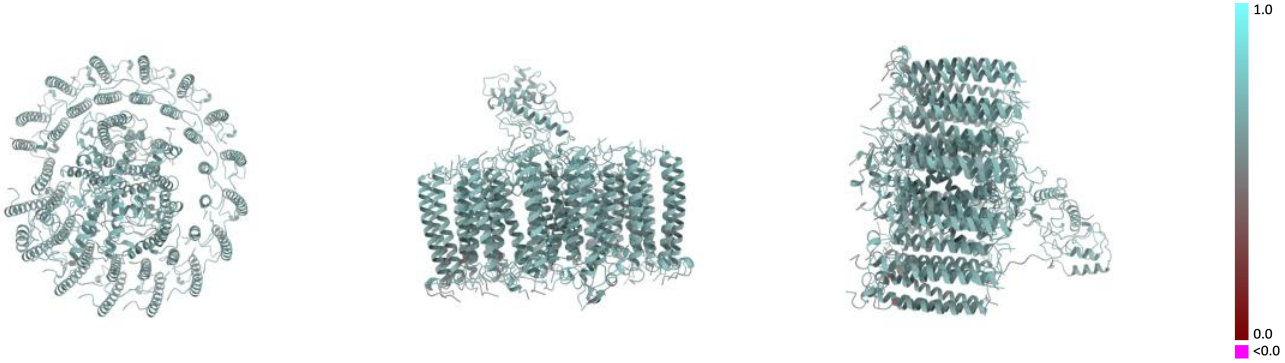
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.226 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.

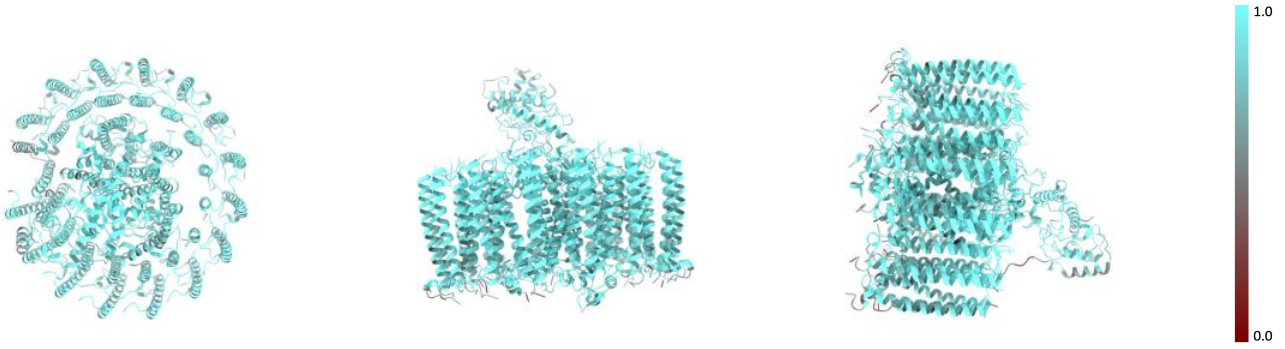
9.2 Q-score mapped to coordinate model (i)



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.

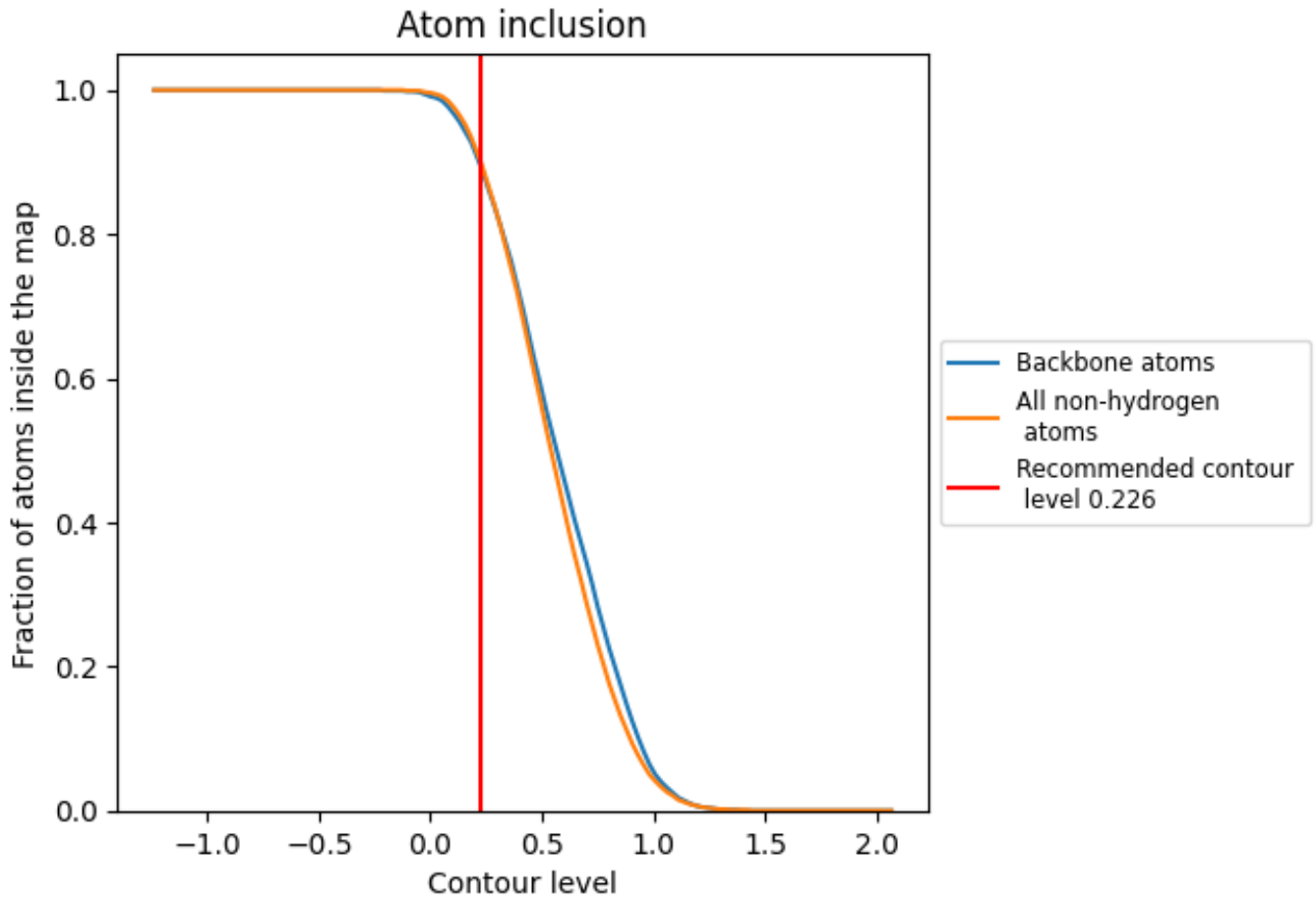
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.226).

9.4 Atom inclusion (i)



At the recommended contour level, 89% of all backbone atoms, 90% 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 (0.226) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9000	0.6220
0	0.8560	0.6100
1	0.8530	0.6070
2	0.8570	0.5980
3	0.9190	0.6220
4	0.8790	0.6190
5	0.9180	0.6260
6	0.8850	0.6120
7	0.9000	0.6250
8	0.8710	0.6090
9	0.9080	0.6230
A	0.9210	0.6260
B	0.8800	0.6100
C	0.8780	0.6150
D	0.8980	0.6170
E	0.8820	0.6100
F	0.9200	0.6220
G	0.8820	0.6160
H	0.8780	0.6180
I	0.8850	0.6220
J	0.9480	0.6430
K	0.8950	0.6130
L	0.9390	0.6390
M	0.9480	0.6420
N	0.9260	0.6310
O	0.8960	0.6170
P	0.9010	0.6290
Q	0.8830	0.6150
R	0.9390	0.6340
S	0.9020	0.6220
T	0.9090	0.6150
U	0.8710	0.6140
V	0.8730	0.6110
W	0.8520	0.6020
X	0.6620	0.5670

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Chain	Atom inclusion	Q-score
Y	0.9070	0.6180
Z	0.9410	0.6260
h	0.9340	0.6330