Full wwPDB EM Validation Report ⓘ

Jan 21, 2025 – 12:29 PM JST

PDB ID	:	8Z82
EMDB ID	:	EMD-39836
Title	:	Photosynthetic LH1-RC-HiPIP complex from the purple bacterium Halorhodospira halophila
Authors	:	Tani, K.; Kanno, R.; Nagashima, K.V.P.; Hiwatashi, N.; Kawakami, M.; Nakata, K.; Nagashima, S.; Inoue, K.; Takaichi, S.; Purba, E.R.; Hall, M.; Yu, L.-J.; Madigan, M.T.; Mizoguchi, A.; Humbel, B.M.; Kimura, Y.; Wang-Otomo, Z.-Y.
Deposited on	:	2024-04-21
Resolution	:	2.40 Å(reported)
Based on initial models	:	5Y5S, 5D8V

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:

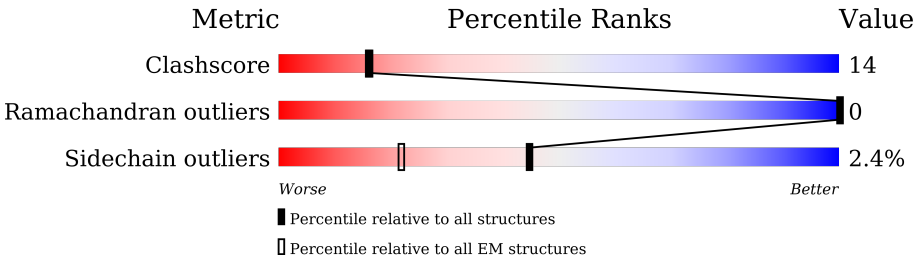
EMDB validation analysis	:	0.0.1.dev113
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry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

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 2.40 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	C	362	73% 18% 7%
2	L	276	72% 28%
3	M	323	77% 21%
4	H	278	81% 17%
5	3	64	52% 20% 28%
5	7	64	45% 27% 28%
5	A	64	53% 19% 28%

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Mol	Chain	Length	Quality of chain
5	F	64	53% 19% 28%
5	K	64	56% 16% 28%
5	Q	64	50% 22% 28%
5	U	64	45% 25% 28%
5	Y	64	55% 17% 28%
6	4	75	51% 12% 37%
6	8	75	47% 16% 37%
6	B	75	47% 17% 36%
6	G	75	48% 15% 37%
6	N	75	52% 11% 37%
6	R	75	52% 11% 37%
6	V	75	53% 9% 37%
6	Z	75	47% 17% 36%
7	1	67	46% 22% 31%
7	5	67	48% 21% 31%
7	9	67	40% 28% 31%
7	D	67	40% 28% 31%
7	I	67	45% 24% 31%
7	O	67	49% 19% 31%
7	S	67	40% 28% 31%
7	W	67	46% 22% 31%
8	0	74	41% 19% 39%
8	2	74	51% 9% 39%
8	6	74	51% 9% 39%
8	E	74	50% 11% 39%

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Mol	Chain	Length	Quality of chain
8	J	74	
8	P	74	
8	T	74	
8	X	74	
9	a	142	

2 Entry composition (i)

There are 24 unique types of molecules in this entry. The entry contains 29018 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Photosynthetic reaction center cytochrome c subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	C	336	Total	C	N	O	S	0	0
			2642	1616	453	549	24		

There are 26 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	33	THR	SER	conflict	UNP A1WXF5
C	47	ASN	THR	conflict	UNP A1WXF5
C	72	ARG	LYS	conflict	UNP A1WXF5
C	84	ASP	THR	conflict	UNP A1WXF5
C	103	SER	ALA	conflict	UNP A1WXF5
C	143	ASP	GLU	conflict	UNP A1WXF5
C	172	THR	GLU	conflict	UNP A1WXF5
C	173	PRO	LEU	conflict	UNP A1WXF5
C	175	VAL	PHE	conflict	UNP A1WXF5
C	177	MET	VAL	conflict	UNP A1WXF5
C	178	ALA	HIS	conflict	UNP A1WXF5
C	183	THR	ASP	conflict	UNP A1WXF5
C	184	MET	GLN	conflict	UNP A1WXF5
C	193	THR	VAL	conflict	UNP A1WXF5
C	194	GLU	GLY	conflict	UNP A1WXF5
C	195	TYR	PHE	conflict	UNP A1WXF5
C	202	ALA	VAL	conflict	UNP A1WXF5
C	223	HIS	ASN	conflict	UNP A1WXF5
C	239	SER	GLY	conflict	UNP A1WXF5
C	246	ALA	ASP	conflict	UNP A1WXF5
C	269	GLU	VAL	conflict	UNP A1WXF5
C	289	ILE	MET	conflict	UNP A1WXF5
C	298	GLU	ASP	conflict	UNP A1WXF5
C	341	ALA	GLU	conflict	UNP A1WXF5
C	354	ASP	GLU	conflict	UNP A1WXF5
C	360	ASN	ASP	conflict	UNP A1WXF5

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	L	274	Total	C	N	O	S	0	0
			2170	1461	348	353	8		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L	99	THR	ALA	conflict	UNP A0A2L1K3P0
L	205	PRO	SER	conflict	UNP A0A2L1K3P0
L	220	ILE	VAL	conflict	UNP A0A2L1K3P0
L	241	GLY	ALA	conflict	UNP A0A2L1K3P0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	M	318	Total	C	N	O	S	0	0
			2518	1679	410	420	9		

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
M	34	ALA	SER	conflict	UNP A0A2L1K3T5
M	65	ILE	LEU	conflict	UNP A0A2L1K3T5
M	66	VAL	LEU	conflict	UNP A0A2L1K3T5
M	84	LEU	ILE	conflict	UNP A0A2L1K3T5
M	86	PHE	TRP	conflict	UNP A0A2L1K3T5
M	126	VAL	ILE	conflict	UNP A0A2L1K3T5
M	130	PHE	TRP	conflict	UNP A0A2L1K3T5
M	131	ALA	VAL	conflict	UNP A0A2L1K3T5
M	236	GLU	ASP	conflict	UNP A0A2L1K3T5

- Molecule 4 is a protein called Photosynthetic reaction centre, H-chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	H	278	Total	C	N	O	S	0	0
			2174	1379	374	410	11		

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	69	VAL	THR	conflict	UNP A1WXI3
H	97	GLU	ALA	conflict	UNP A1WXI3
H	118	LEU	VAL	conflict	UNP A1WXI3

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Chain	Residue	Modelled	Actual	Comment	Reference
H	135	GLY	ALA	conflict	UNP A1WXI3
H	137	LYS	ASN	conflict	UNP A1WXI3
H	141	CYS	ALA	conflict	UNP A1WXI3
H	158	ALA	ARG	conflict	UNP A1WXI3
H	163	GLU	GLN	conflict	UNP A1WXI3
H	164	ILE	LEU	conflict	UNP A1WXI3
H	171	TYR	ASP	conflict	UNP A1WXI3
H	179	LYS	THR	conflict	UNP A1WXI3
H	210	GLY	SER	conflict	UNP A1WXI3
H	226	SER	GLY	conflict	UNP A1WXI3
H	236	GLN	LYS	conflict	UNP A1WXI3
H	247	ALA	SER	conflict	UNP A1WXI3
H	262	PHE	TYR	conflict	UNP A1WXI3

- Molecule 5 is a protein called Antenna complex, alpha/beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	A	46	Total	C	N	O	S	0	0
			385	263	66	55	1		
5	F	46	Total	C	N	O	S	0	0
			385	263	66	55	1		
5	K	46	Total	C	N	O	S	0	0
			385	263	66	55	1		
5	Q	46	Total	C	N	O	S	0	0
			385	263	66	55	1		
5	U	46	Total	C	N	O	S	0	0
			385	263	66	55	1		
5	Y	46	Total	C	N	O	S	0	0
			385	263	66	55	1		
5	3	46	Total	C	N	O	S	0	0
			385	263	66	55	1		
5	7	46	Total	C	N	O	S	0	0
			385	263	66	55	1		

- Molecule 6 is a protein called Antenna complex, alpha/beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	B	48	Total	C	N	O	S	0	0
			386	259	60	66	1		
6	G	47	Total	C	N	O	S	0	0
			380	256	59	64	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	N	47	Total	C	N	O	S	0	0
			380	256	59	64	1		
6	R	47	Total	C	N	O	S	0	0
			380	256	59	64	1		
6	V	47	Total	C	N	O	S	0	0
			380	256	59	64	1		
6	Z	48	Total	C	N	O	S	0	0
			386	259	60	66	1		
6	4	47	Total	C	N	O	S	0	0
			380	256	59	64	1		
6	8	47	Total	C	N	O	S	0	0
			380	256	59	64	1		

- Molecule 7 is a protein called Antenna complex, alpha/beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	D	46	Total	C	N	O	S	0	0
			390	261	67	59	3		
7	I	46	Total	C	N	O	S	0	0
			390	261	67	59	3		
7	O	46	Total	C	N	O	S	0	0
			390	261	67	59	3		
7	S	46	Total	C	N	O	S	0	0
			390	261	67	59	3		
7	W	46	Total	C	N	O	S	0	0
			390	261	67	59	3		
7	1	46	Total	C	N	O	S	0	0
			390	261	67	59	3		
7	5	46	Total	C	N	O	S	0	0
			390	261	67	59	3		
7	9	46	Total	C	N	O	S	0	0
			390	261	67	59	3		

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	37	ASN	SER	conflict	UNP A1WXF8
D	42	GLN	GLU	conflict	UNP A1WXF8
D	48	ASP	ASN	conflict	UNP A1WXF8
D	57	ASP	GLU	conflict	UNP A1WXF8
I	37	ASN	SER	conflict	UNP A1WXF8
I	42	GLN	GLU	conflict	UNP A1WXF8

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Chain	Residue	Modelled	Actual	Comment	Reference
I	48	ASP	ASN	conflict	UNP A1WXF8
I	57	ASP	GLU	conflict	UNP A1WXF8
O	37	ASN	SER	conflict	UNP A1WXF8
O	42	GLN	GLU	conflict	UNP A1WXF8
O	48	ASP	ASN	conflict	UNP A1WXF8
O	57	ASP	GLU	conflict	UNP A1WXF8
S	37	ASN	SER	conflict	UNP A1WXF8
S	42	GLN	GLU	conflict	UNP A1WXF8
S	48	ASP	ASN	conflict	UNP A1WXF8
S	57	ASP	GLU	conflict	UNP A1WXF8
W	37	ASN	SER	conflict	UNP A1WXF8
W	42	GLN	GLU	conflict	UNP A1WXF8
W	48	ASP	ASN	conflict	UNP A1WXF8
W	57	ASP	GLU	conflict	UNP A1WXF8
1	37	ASN	SER	conflict	UNP A1WXF8
1	42	GLN	GLU	conflict	UNP A1WXF8
1	48	ASP	ASN	conflict	UNP A1WXF8
1	57	ASP	GLU	conflict	UNP A1WXF8
5	37	ASN	SER	conflict	UNP A1WXF8
5	42	GLN	GLU	conflict	UNP A1WXF8
5	48	ASP	ASN	conflict	UNP A1WXF8
5	57	ASP	GLU	conflict	UNP A1WXF8
9	37	ASN	SER	conflict	UNP A1WXF8
9	42	GLN	GLU	conflict	UNP A1WXF8
9	48	ASP	ASN	conflict	UNP A1WXF8
9	57	ASP	GLU	conflict	UNP A1WXF8

- Molecule 8 is a protein called Antenna complex, alpha/beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	E	45	Total	C	N	O	S	0	0
			362	240	58	63	1		
8	J	45	Total	C	N	O	S	0	0
			362	240	58	63	1		
8	P	45	Total	C	N	O	S	0	0
			362	240	58	63	1		
8	T	45	Total	C	N	O	S	0	0
			362	240	58	63	1		
8	X	45	Total	C	N	O	S	0	0
			362	240	58	63	1		
8	2	45	Total	C	N	O	S	0	0
			362	240	58	63	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	6	45	Total	C	N	O	S	0	0
			362	240	58	63	1		
8	0	45	Total	C	N	O	S	0	0
			362	240	58	63	1		

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	30	ILE	VAL	conflict	UNP A1WXF9
J	30	ILE	VAL	conflict	UNP A1WXF9
P	30	ILE	VAL	conflict	UNP A1WXF9
T	30	ILE	VAL	conflict	UNP A1WXF9
X	30	ILE	VAL	conflict	UNP A1WXF9
2	30	ILE	VAL	conflict	UNP A1WXF9
6	30	ILE	VAL	conflict	UNP A1WXF9
0	30	ILE	VAL	conflict	UNP A1WXF9

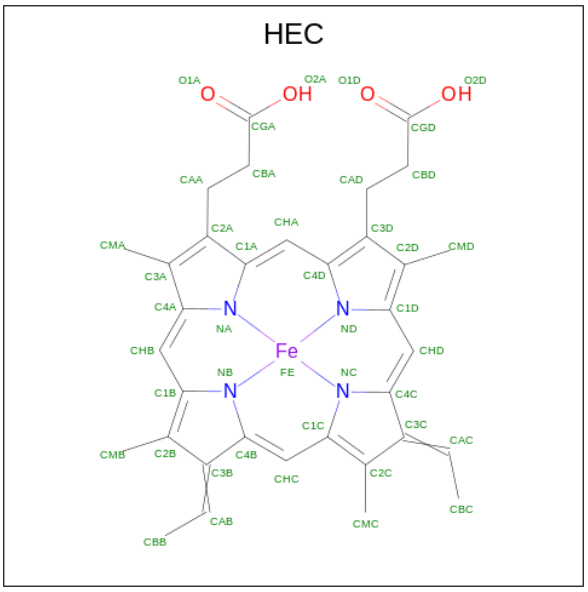
- Molecule 9 is a protein called High-potential iron-sulfur protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	a	95	Total	C	N	O	S	0	0
			736	447	135	147	7		

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
a	3	LYS	ASN	conflict	UNP A1WXH6
a	38	ASP	ASN	conflict	UNP A1WXH6
a	?	-	GLY	deletion	UNP A1WXH6
a	?	-	ASN	deletion	UNP A1WXH6
a	45	ARG	GLN	conflict	UNP A1WXH6
a	114	ASN	SER	conflict	UNP A1WXH6
a	129	VAL	ILE	conflict	UNP A1WXH6
a	136	ALA	GLU	conflict	UNP A1WXH6

- Molecule 10 is HEME C (three-letter code: HEC) (formula: $C_{34}H_{34}FeN_4O_4$).

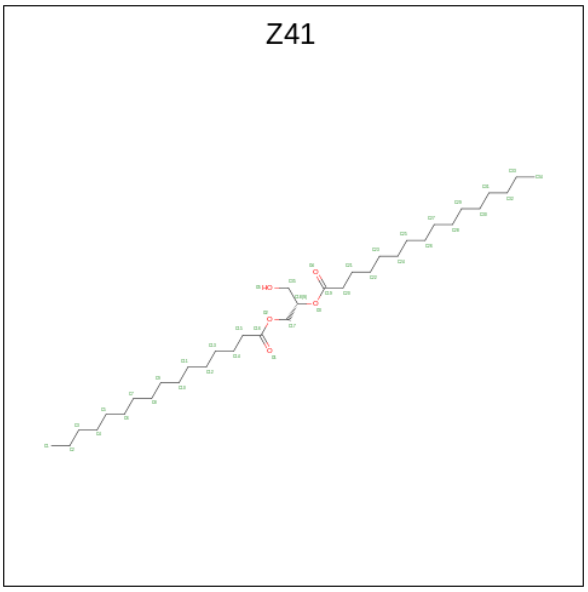


Mol	Chain	Residues	Atoms					AltConf
10	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
10	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
10	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
10	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	

- Molecule 11 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

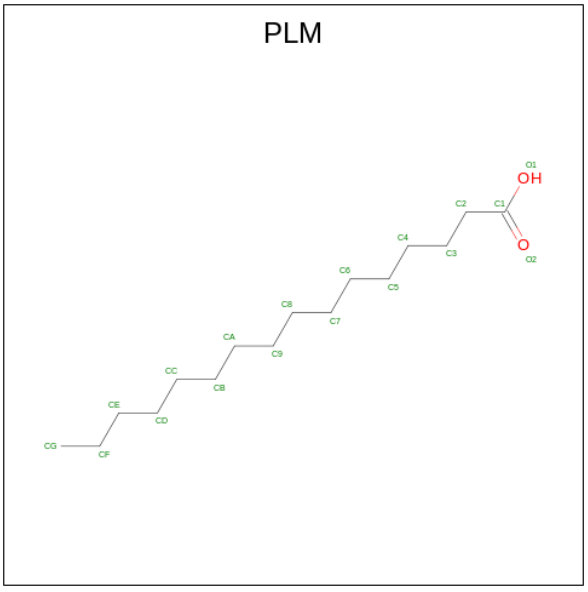
Mol	Chain	Residues	Atoms		AltConf
11	C	1	Total	Mg	0
			1	1	

- Molecule 12 is (2S)-3-hydroxypropane-1,2-diyl dihexadecanoate (three-letter code: Z41) (formula: $C_{35}H_{68}O_5$).



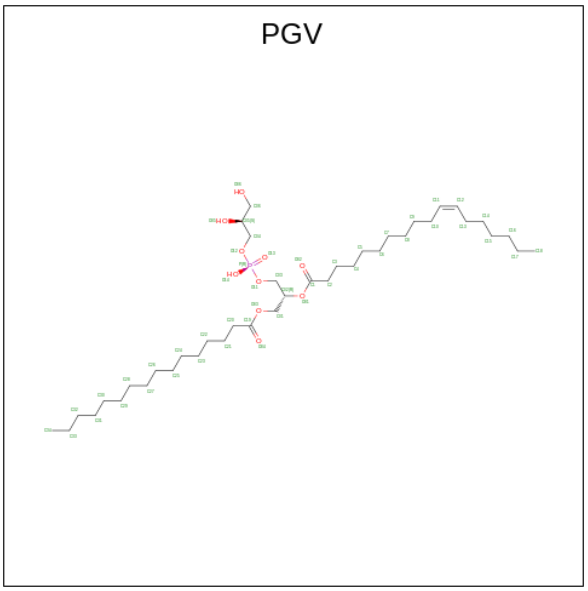
Mol	Chain	Residues	Atoms			AltConf
12	C	1	Total	C	O	0
			31	27	4	

- Molecule 13 is PALMITIC ACID (three-letter code: PLM) (formula: $C_{16}H_{32}O_2$).



Mol	Chain	Residues	Atoms			AltConf
13	C	1	Total	C	O	0
			12	11	1	

- Molecule 14 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
14	C	1	Total 32	C 21	O 10	P 1	0
14	L	1	Total 43	C 32	O 10	P 1	0
14	H	1	Total 36	C 25	O 10	P 1	0
14	H	1	Total 42	C 31	O 10	P 1	0
14	B	1	Total 44	C 33	O 10	P 1	0
14	B	1	Total 41	C 32	O 8	P 1	0
14	E	1	Total 38	C 27	O 10	P 1	0
14	F	1	Total 36	C 27	O 8	P 1	0
14	G	1	Total 49	C 38	O 10	P 1	0
14	G	1	Total 42	C 33	O 8	P 1	0
14	I	1	Total 50	C 39	O 10	P 1	0
14	J	1	Total 50	C 39	O 10	P 1	0
14	J	1	Total 33	C 24	O 8	P 1	0
14	N	1	Total 50	C 39	O 10	P 1	0

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Mol	Chain	Residues	Atoms				AltConf
14	N	1	Total	C	O	P	0
			47	36	10	1	
14	N	1	Total	C	O	P	0
			37	26	10	1	
14	O	1	Total	C	O	P	0
			51	40	10	1	
14	P	1	Total	C	O	P	0
			47	36	10	1	
14	P	1	Total	C	O	P	0
			40	31	8	1	
14	R	1	Total	C	O	P	0
			41	32	8	1	
14	T	1	Total	C	O	P	0
			43	32	10	1	
14	T	1	Total	C	O	P	0
			46	35	10	1	
14	T	1	Total	C	O	P	0
			47	36	10	1	
14	V	1	Total	C	O	P	0
			43	32	10	1	
14	V	1	Total	C	O	P	0
			44	33	10	1	
14	X	1	Total	C	O	P	0
			45	34	10	1	
14	Z	1	Total	C	O	P	0
			46	35	10	1	
14	Z	1	Total	C	O	P	0
			44	33	10	1	
14	Z	1	Total	C	O	P	0
			43	34	8	1	
14	1	1	Total	C	O	P	0
			45	34	10	1	
14	1	1	Total	C	O	P	0
			41	30	10	1	
14	2	1	Total	C	O	P	0
			46	36	9	1	
14	2	1	Total	C	O	P	0
			37	27	9	1	
14	3	1	Total	C	O	P	0
			30	21	8	1	
14	4	1	Total	C	O	P	0
			44	34	9	1	

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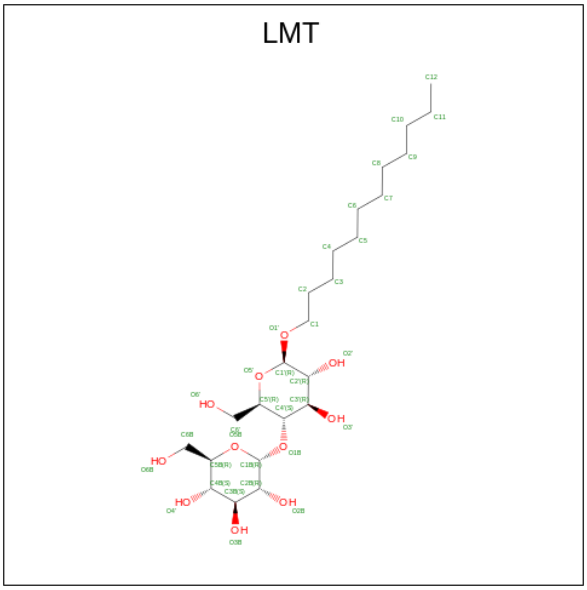
Mol	Chain	Residues	Atoms	AltConf
14	6	1	Total C O P 46 35 10 1	0
14	6	1	Total C O P 44 34 9 1	0
14	6	1	Total C O P 43 32 10 1	0
14	8	1	Total C O P 43 32 10 1	0
14	0	1	Total C O P 41 30 10 1	0
14	0	1	Total C O P 44 33 10 1	0
14	0	1	Total C O P 43 32 10 1	0

- Molecule 15 is DODECYL-BETA-D-MALTOSIDE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).



Mol	Chain	Residues	Atoms	AltConf
15	L	1	Total C O 25 14 11	0
15	M	1	Total C O 35 24 11	0
15	H	1	Total C O 30 19 11	0
15	H	1	Total C O 26 15 11	0

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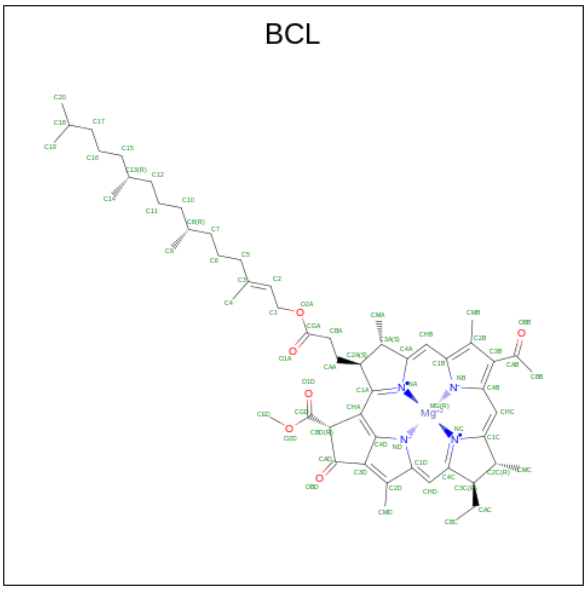
Mol	Chain	Residues	Atoms	AltConf
15	F	1	Total C O 33 22 11	0
15	I	1	Total C O 25 14 11	0
15	O	1	Total C O 29 18 11	0
15	Q	1	Total C O 32 21 11	0
15	5	1	Total C O 35 24 11	0
15	5	1	Total C O 24 13 11	0
15	7	1	Total C O 25 14 11	0
15	7	1	Total C O 35 24 11	0
15	7	1	Total C O 35 24 11	0

- Molecule 16 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
16	L	1	Total C Mg N O 66 55 1 4 6	0
16	L	1	Total C Mg N O 66 55 1 4 6	0

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Mol	Chain	Residues	Atoms					AltConf
16	L	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	M	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	A	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	B	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	D	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	D	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	E	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	F	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	G	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	I	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	I	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	J	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	K	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	N	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	O	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	O	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	P	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	Q	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	R	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	S	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	S	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
16	T	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	U	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	V	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	W	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	W	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	X	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	Y	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	Y	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	Z	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	1	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	1	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	2	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	3	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	4	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	5	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	5	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	6	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	7	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	8	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	9	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
16	9	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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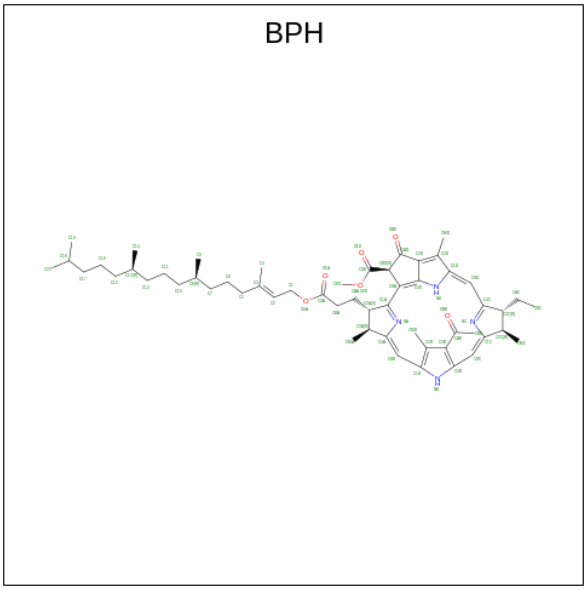
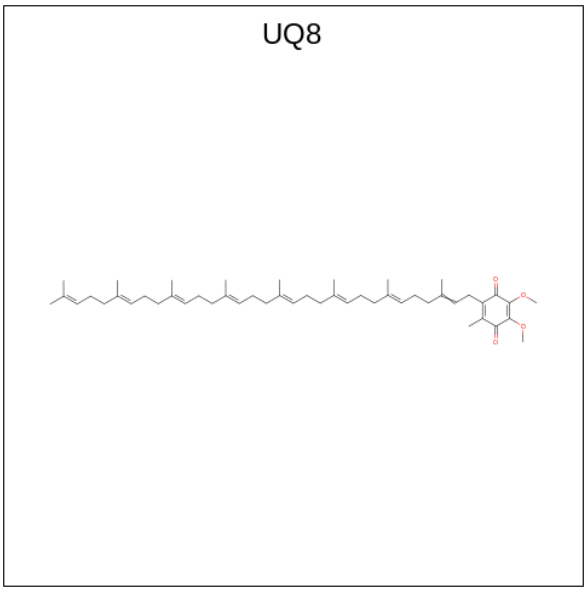
Mol	Chain	Residues	Atoms					AltConf
16	0	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

- Molecule 17 is BACTERIOPHEOPHYTIN A (three-letter code: BPH) (formula: $C_{55}H_{76}N_4O_6$).



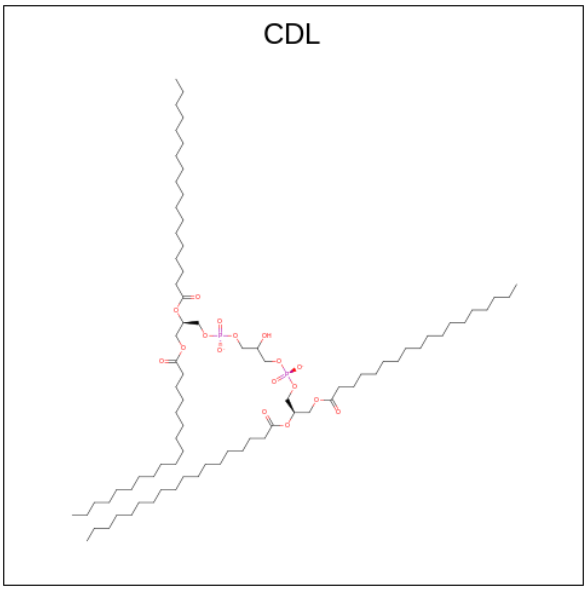
Mol	Chain	Residues	Atoms				AltConf
17	L	1	Total	C	N	O	0
			65	55	4	6	
17	M	1	Total	C	N	O	0
			65	55	4	6	

- Molecule 18 is Ubiquinone-8 (three-letter code: UQ8) (formula: $C_{49}H_{74}O_4$).



Mol	Chain	Residues	Atoms			AltConf
18	L	1	Total 33	C 29	O 4	0
18	L	1	Total 38	C 34	O 4	0
18	L	1	Total 17	C 13	O 4	0

- Molecule 19 is CARDIOLIPIN (three-letter code: CDL) (formula: $C_{81}H_{156}O_{17}P_2$).



Mol	Chain	Residues	Atoms				AltConf
19	L	1	Total 75	C 56	O 17	P 2	0

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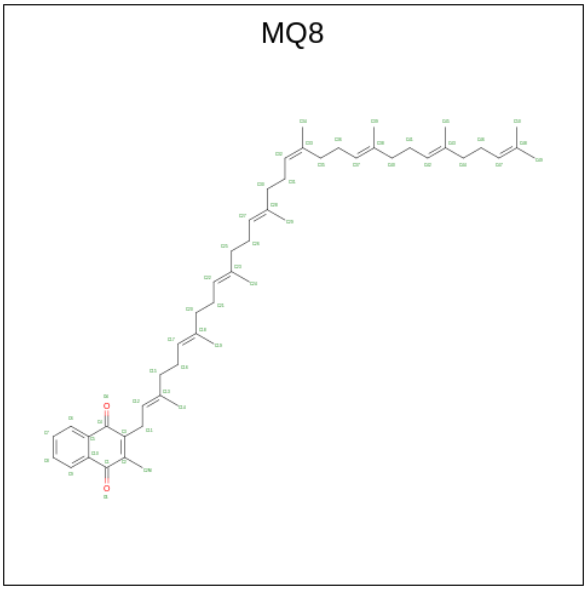
Mol	Chain	Residues	Atoms				AltConf
19	M	1	Total	C	O	P	0
			82	63	17	2	
19	M	1	Total	C	O	P	0
			80	61	17	2	
19	M	1	Total	C	O	P	0
			46	27	17	2	
19	M	1	Total	C	O	P	0
			56	37	17	2	
19	M	1	Total	C	O	P	0
			50	31	17	2	
19	H	1	Total	C	O	P	0
			64	45	17	2	
19	O	1	Total	C	O	P	0
			73	54	17	2	
19	S	1	Total	C	O	P	0
			51	32	17	2	

- Molecule 20 is FE (III) ION (three-letter code: FE) (formula: Fe).

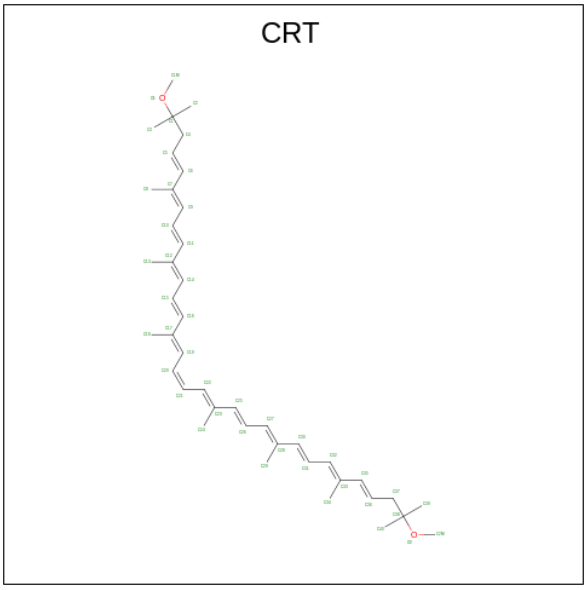
Mol	Chain	Residues	Atoms		AltConf
20	M	1	Total	Fe	0
			1	1	

- Molecule 21 is MENAQUINONE 8 (three-letter code: MQ8) (formula: $C_{51}H_{72}O_2$).



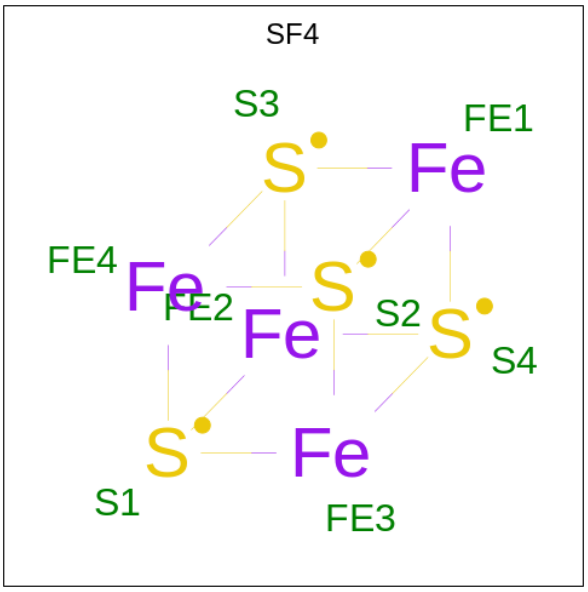
Mol	Chain	Residues	Atoms			AltConf
21	M	1	Total	C	O	0
			53	51	2	

- Molecule 22 is SPIRILLOXANTHIN (three-letter code: CRT) (formula: $C_{42}H_{60}O_2$).



Mol	Chain	Residues	Atoms			AltConf
22	M	1	Total	C	O	0
			44	42	2	
22	B	1	Total	C	O	0
			44	42	2	
22	G	1	Total	C	O	0
			44	42	2	
22	N	1	Total	C	O	0
			44	42	2	
22	R	1	Total	C	O	0
			44	42	2	
22	V	1	Total	C	O	0
			44	42	2	
22	Y	1	Total	C	O	0
			44	42	2	
22	4	1	Total	C	O	0
			44	42	2	
22	8	1	Total	C	O	0
			44	42	2	

- Molecule 23 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms	AltConf
23	a	1	Total Fe S 8 4 4	0

- Molecule 24 is water.

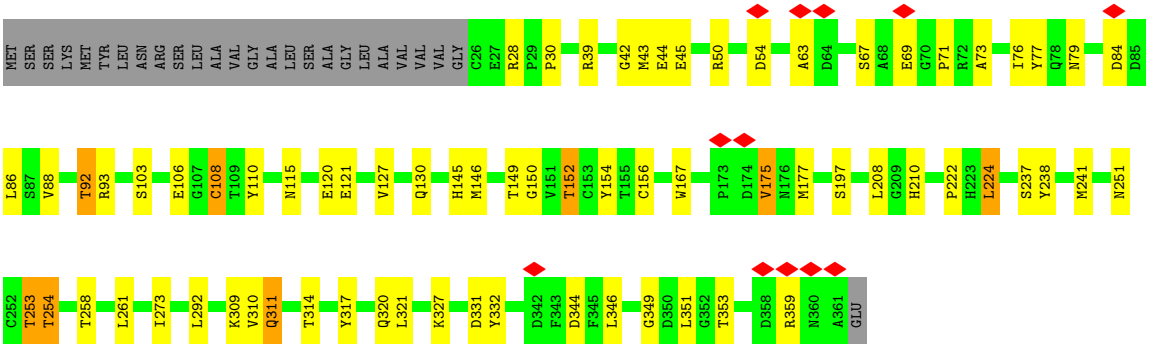
Mol	Chain	Residues	Atoms	AltConf
24	C	4	Total O 4 4	0
24	M	1	Total O 1 1	0

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: Photosynthetic reaction center cytochrome c subunit

Chain C:

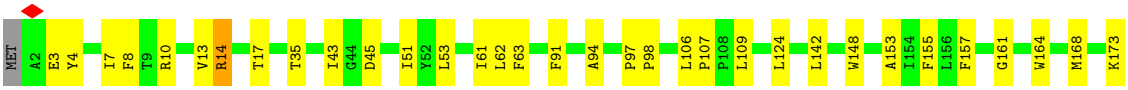


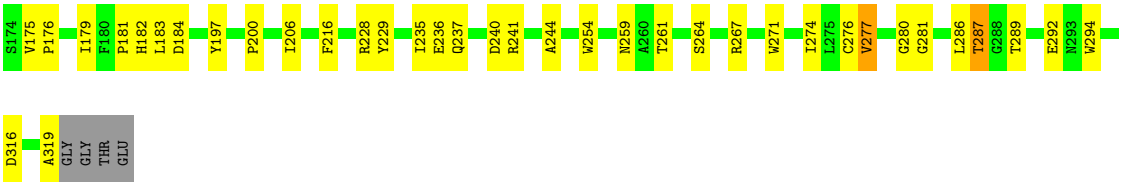
• Molecule 2: Reaction center protein L chain

Chain L:

• Molecule 3: Reaction center protein M chain

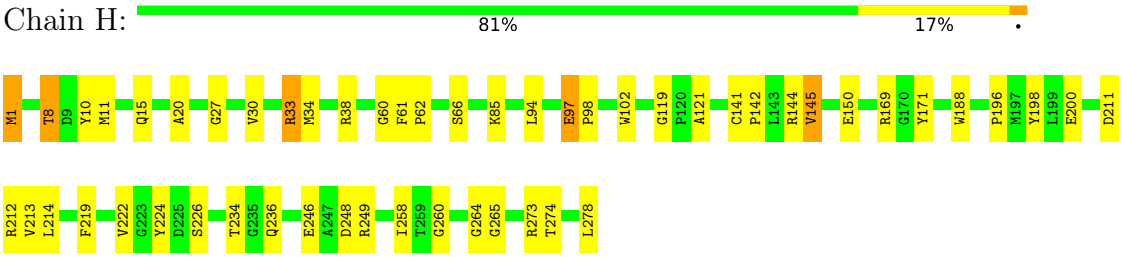
Chain M:





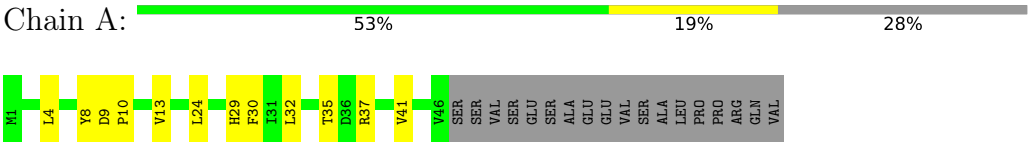
• Molecule 4: Photosynthetic reaction centre, H-chain

Chain H:



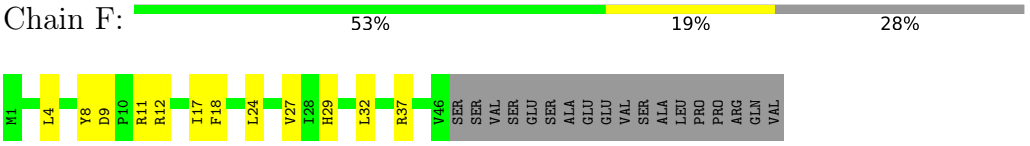
• Molecule 5: Antenna complex, alpha/beta subunit

Chain A:



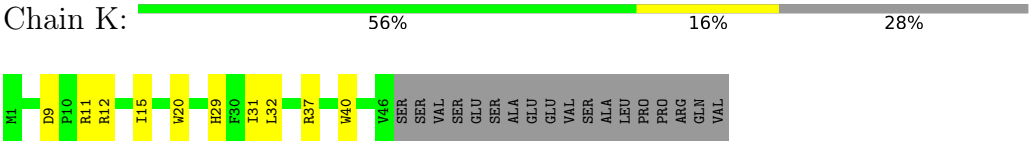
• Molecule 5: Antenna complex, alpha/beta subunit

Chain F:



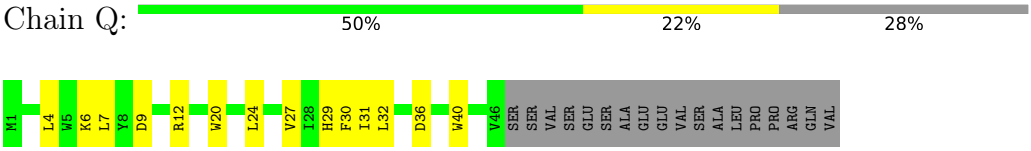
• Molecule 5: Antenna complex, alpha/beta subunit

Chain K:



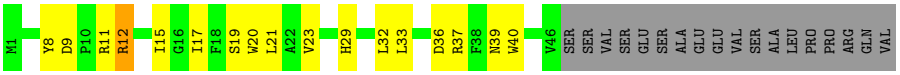
• Molecule 5: Antenna complex, alpha/beta subunit

Chain Q:



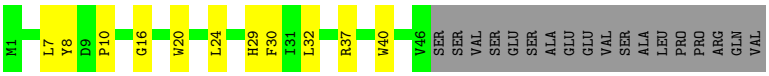
• Molecule 5: Antenna complex, alpha/beta subunit

Chain U:



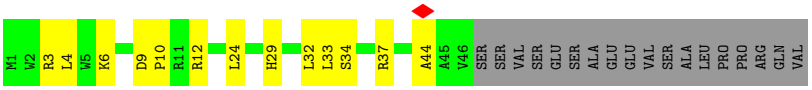
• Molecule 5: Antenna complex, alpha/beta subunit

Chain Y:



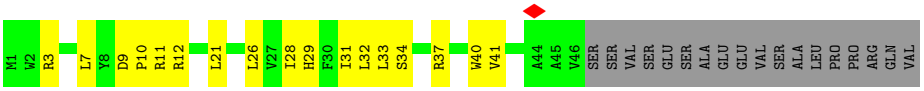
• Molecule 5: Antenna complex, alpha/beta subunit

Chain 3:



• Molecule 5: Antenna complex, alpha/beta subunit

Chain 7:

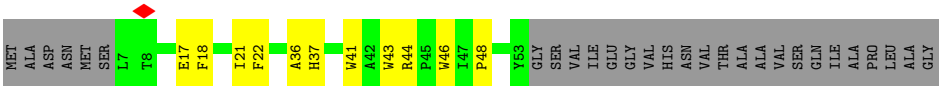


• Molecule 6: Antenna complex, alpha/beta subunit

Chain B:

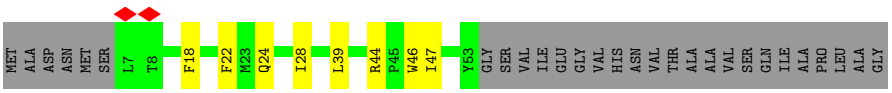
• Molecule 6: Antenna complex, alpha/beta subunit

Chain G:



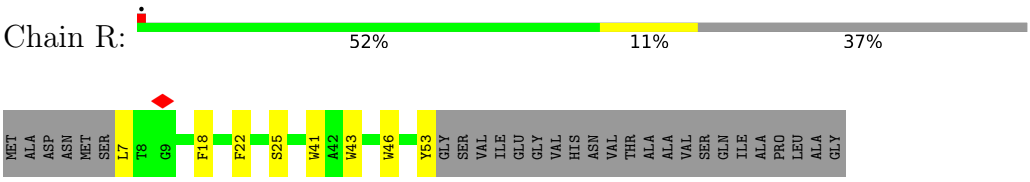
• Molecule 6: Antenna complex, alpha/beta subunit

Chain N:



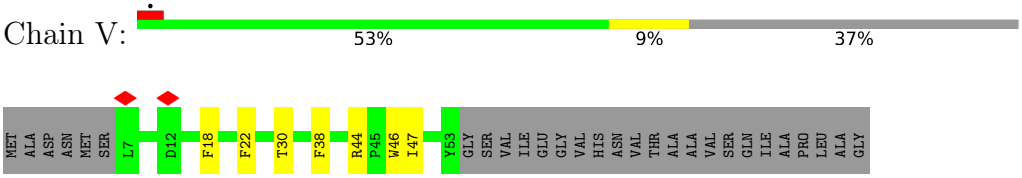
• Molecule 6: Antenna complex, alpha/beta subunit

Chain R:



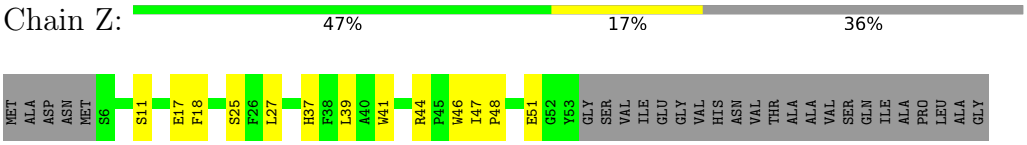
• Molecule 6: Antenna complex, alpha/beta subunit

Chain V:



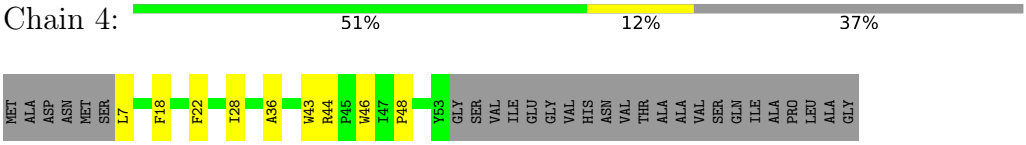
• Molecule 6: Antenna complex, alpha/beta subunit

Chain Z:



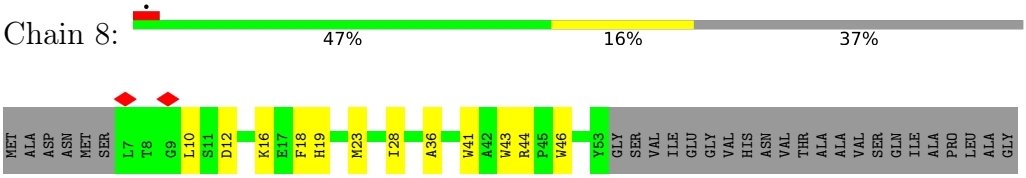
• Molecule 6: Antenna complex, alpha/beta subunit

Chain 4:



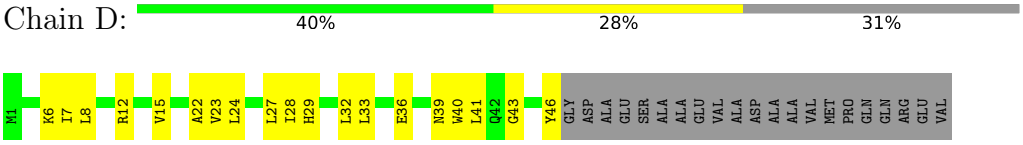
• Molecule 6: Antenna complex, alpha/beta subunit

Chain 8:



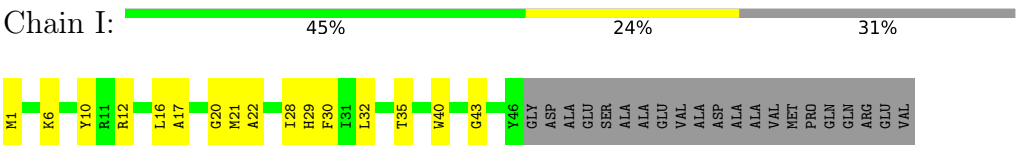
• Molecule 7: Antenna complex, alpha/beta subunit

Chain D:



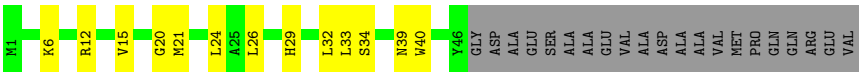
• Molecule 7: Antenna complex, alpha/beta subunit

Chain I:



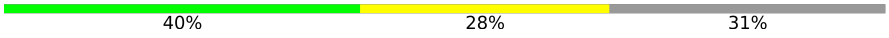
• Molecule 7: Antenna complex, alpha/beta subunit

Chain O:



• Molecule 7: Antenna complex, alpha/beta subunit

Chain S:



• Molecule 7: Antenna complex, alpha/beta subunit

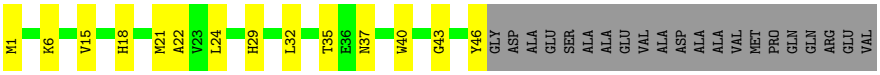
Chain W:

• Molecule 7: Antenna complex, alpha/beta subunit

Chain 1:

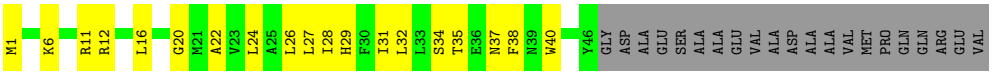
• Molecule 7: Antenna complex, alpha/beta subunit

Chain 5:



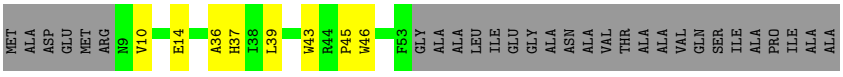
• Molecule 7: Antenna complex, alpha/beta subunit

Chain 9:



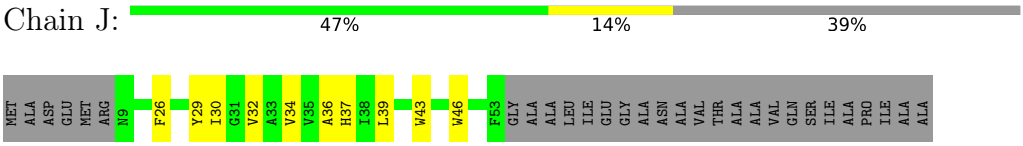
• Molecule 8: Antenna complex, alpha/beta subunit

Chain E:



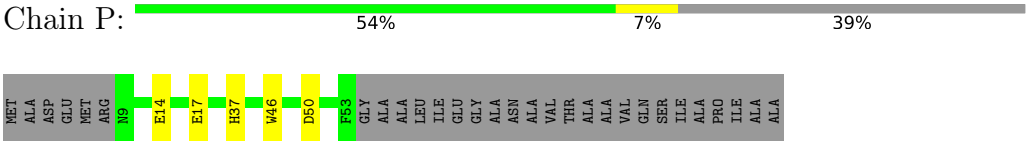
• Molecule 8: Antenna complex, alpha/beta subunit

Chain J:



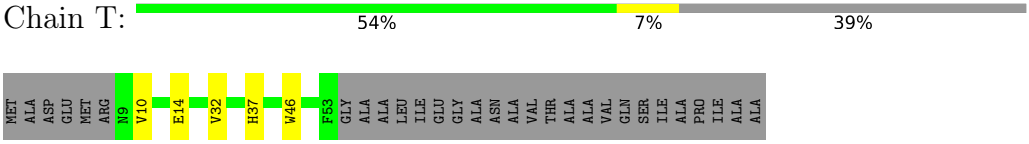
• Molecule 8: Antenna complex, alpha/beta subunit

Chain P:



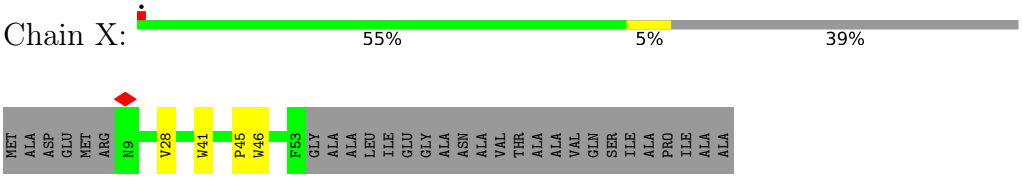
• Molecule 8: Antenna complex, alpha/beta subunit

Chain T:



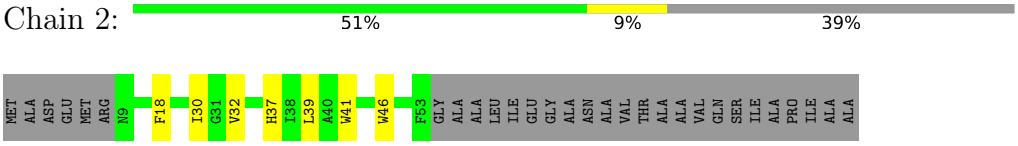
• Molecule 8: Antenna complex, alpha/beta subunit

Chain X:



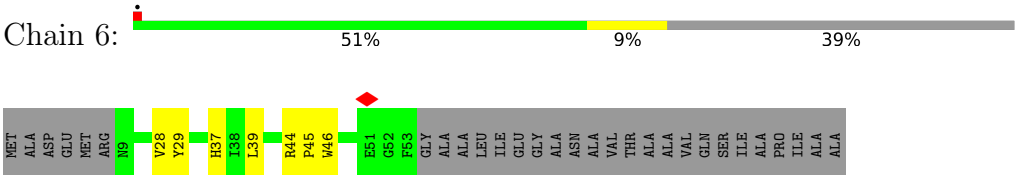
• Molecule 8: Antenna complex, alpha/beta subunit

Chain 2:



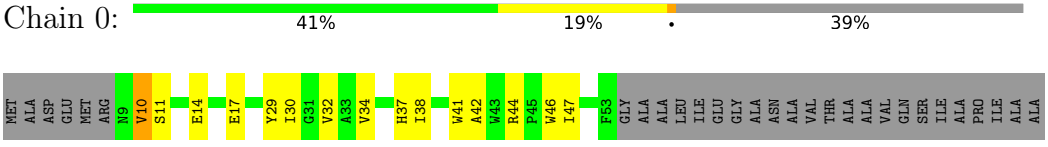
• Molecule 8: Antenna complex, alpha/beta subunit

Chain 6:



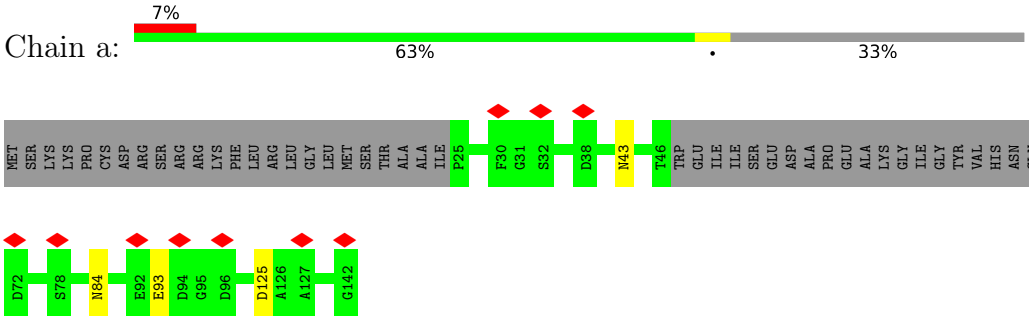
• Molecule 8: Antenna complex, alpha/beta subunit

Chain 0:



• Molecule 9: High-potential iron-sulfur protein

Chain a:


7%
63%
33%
MET SER LYS LYS PRO CYS ASP ARG SER ARG ARG LYS PHE LEU ARG LEU GLY LEU MET SER THR ALA ALA ILE P25 F30 G31 S32 D38 N43 T46 TRP GLU ILE ILE SER GLU ASP ALA PRO GLU ALA LYS GLY ILE GLY TYR VAL HIS ASN GLN ALA ASP ALA D70 W71
D72 S78 N84 E92 E93 D94 G95 D96 D125 A126 A127 G142

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	90126	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	40	Depositor
Minimum defocus (nm)	1100	Depositor
Maximum defocus (nm)	2700	Depositor
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.213	Depositor
Minimum map value	-0.098	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.008	Depositor
Recommended contour level	0.03	Depositor
Map size (Å)	328.0, 328.0, 328.0	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.82, 0.82, 0.82	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: CDL, FE, PGV, PLM, LMT, Z41, HEC, UQ8, BPH, CRT, MG, BCL, SF4, MQ8

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	C	0.26	0/2702	0.50	0/3674
2	L	0.27	0/2252	0.43	0/3082
3	M	0.27	0/2613	0.44	0/3582
4	H	0.27	0/2229	0.49	0/3027
5	3	0.24	0/398	0.45	0/543
5	7	0.24	0/398	0.46	0/543
5	A	0.26	0/398	0.50	0/543
5	F	0.25	0/398	0.46	0/543
5	K	0.24	0/398	0.45	0/543
5	Q	0.24	0/398	0.45	0/543
5	U	0.25	0/398	0.44	0/543
5	Y	0.26	0/398	0.50	0/543
6	4	0.24	0/395	0.37	0/539
6	8	0.25	0/395	0.36	0/539
6	B	0.26	0/401	0.38	0/547
6	G	0.26	0/395	0.35	0/539
6	N	0.25	0/395	0.37	0/539
6	R	0.26	0/395	0.38	0/539
6	V	0.26	0/395	0.36	0/539
6	Z	0.24	0/401	0.38	0/547
7	1	0.25	0/402	0.43	0/547
7	5	0.24	0/402	0.43	0/547
7	9	0.26	0/402	0.42	0/547
7	D	0.26	0/402	0.45	0/547
7	I	0.25	0/402	0.42	0/547
7	O	0.24	0/402	0.43	0/547
7	S	0.25	0/402	0.45	0/547
7	W	0.25	0/402	0.45	0/547
8	0	0.25	0/376	0.35	0/514
8	2	0.26	0/376	0.37	0/514
8	6	0.25	0/376	0.35	0/514
8	E	0.26	0/376	0.36	0/514

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
8	J	0.25	0/376	0.37	0/514
8	P	0.25	0/376	0.36	0/514
8	T	0.25	0/376	0.35	0/514
8	X	0.25	0/376	0.36	0/514
9	a	0.25	0/755	0.49	0/1020
All	All	0.26	0/23131	0.44	0/31545

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	2642	0	2401	52	0
2	L	2170	0	2145	68	0
3	M	2518	0	2465	61	0
4	H	2174	0	2131	44	0
5	3	385	0	403	14	0
5	7	385	0	403	17	0
5	A	385	0	403	12	0
5	F	385	0	403	13	0
5	K	385	0	403	10	0
5	Q	385	0	403	15	0
5	U	385	0	403	18	0
5	Y	385	0	403	12	0
6	4	380	0	359	12	0
6	8	380	0	359	12	0
6	B	386	0	364	14	0
6	G	380	0	359	11	0
6	N	380	0	359	8	0
6	R	380	0	359	10	0
6	V	380	0	359	7	0
6	Z	386	0	364	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	1	390	0	401	18	0
7	5	390	0	401	18	0
7	9	390	0	401	21	0
7	D	390	0	401	22	0
7	I	390	0	401	17	0
7	O	390	0	401	15	0
7	S	390	0	401	20	0
7	W	390	0	401	14	0
8	0	362	0	333	13	0
8	2	362	0	333	10	0
8	6	362	0	333	9	0
8	E	362	0	333	8	0
8	J	362	0	333	16	0
8	P	362	0	333	3	0
8	T	362	0	333	5	0
8	X	362	0	333	5	0
9	a	736	0	641	0	0
10	C	172	0	121	16	0
11	C	1	0	0	0	0
12	C	31	0	0	0	0
13	C	12	0	18	1	0
14	0	128	0	161	10	0
14	1	86	0	108	10	0
14	2	83	0	106	6	0
14	3	30	0	31	3	0
14	4	44	0	59	3	0
14	6	133	0	173	8	0
14	8	43	0	54	7	0
14	B	85	0	107	13	0
14	C	32	0	34	6	0
14	E	38	0	44	2	0
14	F	36	0	41	2	0
14	G	91	0	122	9	0
14	H	78	0	99	6	0
14	I	50	0	71	5	0
14	J	83	0	108	9	0
14	L	43	0	59	6	0
14	N	134	0	178	6	0
14	O	51	0	76	7	0
14	P	87	0	116	6	0
14	R	41	0	53	5	0
14	T	136	0	182	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	V	87	0	110	5	0
14	X	45	0	62	2	0
14	Z	133	0	177	12	0
15	5	59	0	67	4	0
15	7	95	0	115	9	0
15	F	33	0	39	3	0
15	H	56	0	58	4	0
15	I	25	0	23	3	0
15	L	25	0	23	3	0
15	M	35	0	46	1	0
15	O	29	0	31	3	0
15	Q	32	0	37	2	0
16	0	66	0	74	8	0
16	1	132	0	148	15	0
16	2	66	0	74	10	0
16	3	66	0	74	6	0
16	4	66	0	74	9	0
16	5	132	0	148	18	0
16	6	66	0	74	8	0
16	7	66	0	74	3	0
16	8	66	0	74	10	0
16	9	132	0	148	15	0
16	A	66	0	74	5	0
16	B	66	0	74	8	0
16	D	132	0	148	15	0
16	E	66	0	74	9	0
16	F	66	0	74	5	0
16	G	66	0	74	11	0
16	I	132	0	148	19	0
16	J	66	0	74	10	0
16	K	66	0	74	8	0
16	L	198	0	222	16	0
16	M	66	0	74	6	0
16	N	66	0	74	5	0
16	O	132	0	148	13	0
16	P	66	0	74	9	0
16	Q	66	0	74	7	0
16	R	66	0	74	9	0
16	S	132	0	148	20	0
16	T	66	0	74	7	0
16	U	66	0	74	4	0
16	V	66	0	74	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	W	132	0	148	13	0
16	X	66	0	74	5	0
16	Y	132	0	148	9	0
16	Z	66	0	74	8	0
17	L	65	0	76	8	0
17	M	65	0	76	7	0
18	L	88	0	98	12	0
19	H	64	0	72	5	0
19	L	75	0	97	8	0
19	M	314	0	354	26	0
19	O	73	0	90	6	0
19	S	51	0	46	5	0
20	M	1	0	0	0	0
21	M	53	0	72	3	0
22	4	44	0	60	10	0
22	8	44	0	60	8	0
22	B	44	0	60	7	0
22	G	44	0	60	10	0
22	M	44	0	60	8	0
22	N	44	0	60	13	0
22	R	44	0	60	8	0
22	V	44	0	60	8	0
22	Y	44	0	60	8	0
23	a	8	0	0	0	0
24	C	4	0	0	0	0
24	M	1	0	0	0	0
All	All	29018	0	29521	811	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 14.

All (811) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:108:CYS:SG	10:C:401:HEC:HAB	1.45	1.52
1:C:108:CYS:SG	10:C:401:HEC:CAB	2.12	1.37
1:C:108:CYS:CB	10:C:401:HEC:HAB	1.59	1.30
1:C:108:CYS:CB	10:C:401:HEC:CAB	2.37	1.02
1:C:108:CYS:HB3	10:C:401:HEC:C3B	2.00	0.90
1:C:108:CYS:HB3	10:C:401:HEC:CAB	2.01	0.89
14:B:103:PGV:H202	8:E:43:TRP:HB2	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:287:THR:HB	3:M:294:TRP:HE1	1.46	0.80
3:M:97:PRO:HD3	3:M:176:PRO:HB3	1.66	0.77
5:7:32:LEU:HD11	16:8:102:BCL:HHD	1.65	0.77
7:W:9:ASP:HB3	7:W:12:ARG:HG2	1.66	0.77
14:T:103:PGV:H151	14:T:104:PGV:H21	1.66	0.76
1:C:108:CYS:SG	10:C:401:HEC:CBB	2.74	0.76
7:O:32:LEU:HD11	16:P:101:BCL:HHD	1.66	0.76
1:C:45:GLU:OE2	1:C:320:GLN:NE2	2.21	0.74
18:L:306:UQ8:H1MA	15:7:102:LMT:H72	1.69	0.74
6:N:18:PHE:HA	22:N:102:CRT:H6	1.69	0.74
4:H:102:TRP:NE1	5:A:9:ASP:OD2	2.21	0.74
7:S:32:LEU:HD11	16:T:102:BCL:HHD	1.71	0.73
7:O:24:LEU:HD23	16:P:101:BCL:HED3	1.71	0.73
19:L:310:CDL:H522	4:H:33:ARG:HD2	1.70	0.73
4:H:8:THR:HG21	7:I:35:THR:HG22	1.70	0.72
14:0:101:PGV:H011	14:0:101:PGV:H31	1.71	0.72
6:N:39:LEU:HB3	14:N:101:PGV:H222	1.72	0.71
5:U:32:LEU:HD11	16:V:102:BCL:HHD	1.73	0.71
14:L:305:PGV:H201	14:L:305:PGV:H31	1.73	0.70
22:N:102:CRT:H35	16:O:104:BCL:HMB2	1.72	0.70
7:I:32:LEU:HD11	16:J:102:BCL:HHD	1.73	0.70
7:1:32:LEU:HD11	16:2:101:BCL:HHD	1.73	0.69
14:2:102:PGV:H012	14:2:102:PGV:H51	1.74	0.69
7:9:32:LEU:HD11	16:0:102:BCL:HHD	1.74	0.69
7:5:32:LEU:HD11	16:6:102:BCL:HHD	1.75	0.69
15:I:102:LMT:H4'	5:K:11:ARG:HH22	1.58	0.69
5:F:8:TYR:HD1	15:F:102:LMT:H5'	1.56	0.68
22:4:101:CRT:H35	16:5:103:BCL:HMB2	1.76	0.68
16:7:104:BCL:H152	6:8:28:ILE:HD12	1.74	0.68
14:6:104:PGV:H061	14:6:104:PGV:H012	1.75	0.68
14:R:103:PGV:H21	14:T:101:PGV:H151	1.76	0.67
16:8:102:BCL:H122	8:0:29:TYR:HD1	1.60	0.67
5:7:34:SER:HA	15:7:101:LMT:H4'	1.75	0.67
5:Q:4:LEU:HD21	16:S:103:BCL:HMD3	1.75	0.67
19:M:410:CDL:HA4	16:Y:401:BCL:HMC3	1.77	0.67
5:F:27:VAL:HG22	14:F:101:PGV:H72	1.76	0.67
3:M:259:ASN:O	4:H:33:ARG:NH2	2.29	0.66
5:U:33:LEU:O	5:U:39:ASN:ND2	2.29	0.66
16:A:101:BCL:HMB2	16:0:102:BCL:H162	1.78	0.66
2:L:140:GLY:HA3	15:L:301:LMT:H3B	1.77	0.66
3:M:7:ILE:HG23	19:M:402:CDL:H611	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:10:ARG:HG2	4:H:222:VAL:HB	1.77	0.66
16:V:102:BCL:H141	8:X:28:VAL:HG12	1.78	0.66
3:M:240:ASP:OD1	4:H:85:LYS:NZ	2.28	0.65
5:Q:29:HIS:CE1	16:R:102:BCL:HMD1	2.31	0.65
4:H:144:ARG:NH2	4:H:200:GLU:OE1	2.30	0.65
7:9:20:GLY:HA3	16:9:102:BCL:H93	1.79	0.65
1:C:152:THR:HG22	1:C:154:TYR:H	1.60	0.65
8:J:43:TRP:HD1	14:J:101:PGV:H012	1.62	0.65
14:H:303:PGV:H21	14:O:102:PGV:H211	1.79	0.65
7:D:32:LEU:HD11	16:E:101:BCL:HHD	1.77	0.65
2:L:219:VAL:HG12	2:L:220:ILE:HG23	1.79	0.64
5:7:37:ARG:O	6:8:44:ARG:NH1	2.30	0.64
16:8:102:BCL:H8	8:0:32:VAL:HG11	1.78	0.64
16:Z:102:BCL:H3A	16:Z:102:BCL:H2	1.79	0.64
4:H:278:LEU:OXT	7:9:12:ARG:NH1	2.30	0.64
5:Q:4:LEU:HD11	16:S:103:BCL:HHD	1.78	0.64
7:S:29:HIS:CE1	16:T:102:BCL:HMD1	2.33	0.64
8:2:30:ILE:HD11	16:2:101:BCL:H11	1.80	0.64
7:S:7:ILE:HD11	22:V:101:CRT:H32A	1.79	0.64
1:C:251:ASN:HA	2:L:165:LEU:HD21	1.80	0.63
7:D:27:LEU:HD22	16:D:102:BCL:H171	1.79	0.63
22:R:101:CRT:H35	16:S:102:BCL:HMB2	1.80	0.63
19:M:408:CDL:H312	19:S:101:CDL:H111	1.81	0.63
14:Z:104:PGV:H252	14:Z:104:PGV:H91	1.80	0.63
7:S:22:ALA:HB2	16:S:102:BCL:H43	1.79	0.62
22:V:101:CRT:H35	16:W:101:BCL:HMB2	1.81	0.62
5:Q:24:LEU:HD23	16:R:102:BCL:HED3	1.81	0.62
4:H:61:PHE:HZ	15:H:304:LMT:H12	1.64	0.62
22:V:101:CRT:H372	7:W:29:HIS:CG	2.34	0.62
5:7:29:HIS:CE1	16:8:102:BCL:HMD1	2.34	0.62
2:L:197:VAL:HG21	2:L:212:GLU:HG3	1.82	0.62
5:A:32:LEU:HD11	16:B:102:BCL:HHD	1.80	0.62
16:Z:102:BCL:H121	8:2:32:VAL:HG11	1.79	0.62
5:7:34:SER:HA	15:7:101:LMT:H1B	1.82	0.62
5:U:29:HIS:CE1	16:V:102:BCL:HMD1	2.34	0.62
5:U:20:TRP:HB2	16:W:101:BCL:H152	1.82	0.62
3:M:153:ALA:HA	3:M:277:VAL:HG21	1.81	0.62
7:D:29:HIS:CE1	16:E:101:BCL:HMD1	2.35	0.62
14:O:102:PGV:H72	14:O:102:PGV:H272	1.82	0.62
1:C:108:CYS:CA	10:C:401:HEC:HAB	2.29	0.61
5:K:32:LEU:HD11	16:N:103:BCL:HHD	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:161:GLY:HA3	22:M:406:CRT:H292	1.82	0.61
6:8:46:TRP:CD2	16:8:102:BCL:H2C	2.35	0.61
1:C:146:MET:HG2	10:C:404:HEC:HMD2	1.82	0.61
5:A:29:HIS:CE1	16:B:102:BCL:HMD1	2.35	0.61
6:B:47:ILE:HG21	14:B:103:PGV:H201	1.82	0.61
7:5:15:VAL:HG22	16:5:103:BCL:H18	1.82	0.61
19:M:407:CDL:H191	4:H:27:GLY:HA3	1.82	0.61
7:W:18:HIS:HD2	16:W:101:BCL:H51	1.66	0.61
7:W:29:HIS:CE1	16:X:101:BCL:HMD1	2.36	0.61
7:9:37:ASN:O	8:0:44:ARG:NH1	2.31	0.61
2:L:91:VAL:HG12	18:L:306:UQ8:H8	1.83	0.61
8:X:46:TRP:CD2	16:X:101:BCL:H2C	2.35	0.61
2:L:43:ALA:HB1	17:L:303:BPH:H4C2	1.82	0.61
2:L:212:GLU:HB3	18:L:304:UQ8:H4MB	1.82	0.61
15:I:102:LMT:H5'	19:O:101:CDL:H121	1.83	0.61
6:R:46:TRP:CD2	16:R:102:BCL:H2C	2.36	0.60
1:C:146:MET:HE3	1:C:150:GLY:HA2	1.84	0.60
5:Q:32:LEU:HD11	16:R:102:BCL:HHD	1.83	0.60
14:C:408:PGV:H42	15:5:101:LMT:H81	1.83	0.60
8:J:46:TRP:CD2	16:J:102:BCL:H2C	2.36	0.60
7:S:18:HIS:HB3	16:S:102:BCL:H62	1.82	0.60
6:Z:46:TRP:CD2	16:Z:102:BCL:H2C	2.36	0.60
5:U:19:SER:HB3	16:W:101:BCL:H192	1.83	0.60
5:Y:32:LEU:HD11	16:Z:102:BCL:HHD	1.83	0.60
16:A:101:BCL:HHB	16:0:102:BCL:H122	1.83	0.60
14:Z:103:PGV:H232	8:2:39:LEU:HB3	1.84	0.60
7:O:29:HIS:CE1	16:P:101:BCL:HMD1	2.37	0.59
2:L:103:ARG:NH2	3:M:254:TRP:O	2.35	0.59
7:W:22:ALA:HB2	16:W:101:BCL:H43	1.83	0.59
2:L:17:LEU:HB3	18:L:306:UQ8:H30	1.84	0.59
6:G:46:TRP:CD2	16:G:103:BCL:H2C	2.37	0.59
5:K:29:HIS:CE1	16:N:103:BCL:HMD1	2.37	0.59
8:P:46:TRP:CD2	16:P:101:BCL:H2C	2.37	0.59
19:M:409:CDL:OB4	4:H:224:TYR:OH	2.20	0.59
14:B:104:PGV:H82	14:B:104:PGV:H222	1.83	0.59
1:C:258:THR:HA	1:C:261:LEU:HD13	1.85	0.59
22:Y:403:CRT:H35	16:1:103:BCL:HMB2	1.84	0.59
5:K:37:ARG:O	6:N:44:ARG:NH1	2.30	0.59
1:C:79:ASN:ND2	1:C:120:GLU:OE2	2.34	0.59
3:M:94:ALA:HB2	3:M:181:PRO:HG2	1.84	0.59
14:1:101:PGV:H61	14:3:101:PGV:H42	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:4:LEU:HD13	16:D:102:BCL:HMD3	1.85	0.58
8:J:39:LEU:HB3	14:J:101:PGV:H221	1.85	0.58
8:T:46:TRP:CD2	16:T:102:BCL:H2C	2.37	0.58
5:3:34:SER:HB3	14:3:101:PGV:H22	1.84	0.58
2:L:119:VAL:HG21	19:M:402:CDL:H512	1.85	0.58
1:C:42:GLY:O	2:L:163:GLN:NE2	2.37	0.58
3:M:200:PRO:HB3	14:H:302:PGV:H22	1.85	0.58
5:F:29:HIS:CE1	16:G:103:BCL:HMD1	2.38	0.58
8:0:46:TRP:CD2	16:0:102:BCL:H2C	2.38	0.58
7:D:7:ILE:HD11	22:G:102:CRT:H32A	1.85	0.58
14:0:101:PGV:H011	14:0:101:PGV:H62	1.85	0.58
17:M:404:BPH:HHC	17:M:404:BPH:HBB3	1.85	0.57
7:S:33:LEU:O	7:S:39:ASN:ND2	2.36	0.57
5:3:29:HIS:CE1	16:4:102:BCL:HMD1	2.39	0.57
5:7:7:LEU:HB3	7:9:11:ARG:HG2	1.85	0.57
14:B:104:PGV:H252	14:B:104:PGV:H91	1.86	0.57
1:C:93:ARG:NH2	1:C:331:ASP:O	2.37	0.57
14:O:102:PGV:H261	15:O:103:LMT:H41	1.86	0.57
16:S:102:BCL:H41	16:S:102:BCL:H102	1.85	0.57
8:2:46:TRP:CD2	16:2:101:BCL:H2C	2.40	0.57
16:L:308:BCL:HMD1	3:M:206:ILE:HD13	1.86	0.57
5:Y:29:HIS:CE1	16:Z:102:BCL:HMD1	2.39	0.57
7:5:24:LEU:HD23	16:6:102:BCL:HED3	1.86	0.57
6:G:36:ALA:HB1	14:G:101:PGV:H282	1.87	0.57
16:F:103:BCL:H203	6:G:21:ILE:HG23	1.86	0.57
16:K:101:BCL:HMA3	14:N:101:PGV:H322	1.86	0.57
7:9:29:HIS:CE1	16:0:102:BCL:HMD1	2.40	0.57
2:L:132:VAL:HG23	2:L:133:VAL:HG23	1.85	0.57
22:M:406:CRT:H2M3	5:Q:31:ILE:HG12	1.87	0.57
7:I:29:HIS:CE1	16:J:102:BCL:HMD1	2.40	0.57
16:P:101:BCL:HBB2	14:P:102:PGV:H291	1.87	0.57
6:4:46:TRP:CD2	16:4:102:BCL:H2C	2.39	0.57
2:L:235:PHE:HB2	19:M:402:CDL:H601	1.87	0.56
6:G:41:TRP:HE1	14:G:104:PGV:H042	1.70	0.56
1:C:210:HIS:HB2	1:C:349:GLY:HA3	1.85	0.56
22:B:101:CRT:H35	16:D:101:BCL:HMB2	1.87	0.56
22:Y:403:CRT:H6	6:Z:18:PHE:HA	1.86	0.56
14:C:408:PGV:H82	14:C:408:PGV:H231	1.86	0.56
8:E:46:TRP:CD2	16:E:101:BCL:H2C	2.39	0.56
14:Z:101:PGV:H71	14:Z:101:PGV:H032	1.86	0.56
2:L:170:ASN:O	2:L:174:MET:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:7:ILE:HD12	19:M:402:CDL:H591	1.86	0.56
16:J:102:BCL:H122	16:K:101:BCL:HHB	1.87	0.56
7:5:29:HIS:CE1	16:6:102:BCL:HMD1	2.40	0.56
5:F:32:LEU:HD11	16:G:103:BCL:HHD	1.86	0.56
7:1:27:LEU:HD12	14:1:101:PGV:H261	1.87	0.56
14:2:102:PGV:H222	6:4:43:TRP:HB2	1.87	0.56
14:6:103:PGV:H202	6:8:43:TRP:HB2	1.88	0.56
5:3:32:LEU:HD11	16:4:102:BCL:HHD	1.87	0.56
2:L:62:TRP:HB3	2:L:151:LEU:HD23	1.88	0.56
2:L:149:GLY:O	2:L:153:HIS:ND1	2.39	0.56
2:L:197:VAL:HG13	2:L:207:LYS:HB2	1.88	0.56
16:L:309:BCL:H102	17:M:404:BPH:HMB1	1.87	0.56
7:W:32:LEU:HD11	16:X:101:BCL:HHD	1.88	0.56
3:M:229:TYR:HB2	3:M:244:ALA:HB2	1.87	0.55
7:D:36:GLU:N	7:D:36:GLU:OE1	2.35	0.55
22:G:102:CRT:H372	7:I:29:HIS:CG	2.42	0.55
15:I:102:LMT:H12	19:O:101:CDL:H321	1.88	0.55
2:L:9:LYS:HA	4:H:94:LEU:HD21	1.87	0.55
2:L:14:GLY:HA3	4:H:274:THR:HG23	1.88	0.55
6:N:46:TRP:CD2	16:N:103:BCL:H2C	2.42	0.55
14:8:103:PGV:H71	14:8:103:PGV:H231	1.88	0.55
14:C:408:PGV:H71	15:5:101:LMT:H92	1.89	0.55
14:B:103:PGV:H131	14:B:104:PGV:H51	1.87	0.55
7:1:18:HIS:CE1	16:1:103:BCL:H192	2.42	0.55
2:L:68:PRO:HB2	2:L:143:GLY:HA2	1.89	0.55
5:F:37:ARG:O	6:G:44:ARG:NH1	2.33	0.55
22:8:101:CRT:H402	16:9:101:BCL:HBB2	1.89	0.55
7:5:22:ALA:HA	16:5:103:BCL:H11	1.88	0.55
5:A:10:PRO:HB3	6:B:18:PHE:CE1	2.41	0.55
6:V:46:TRP:CD2	16:V:102:BCL:H2C	2.42	0.55
1:C:71:PRO:HG2	1:C:76:ILE:HD11	1.86	0.55
19:M:407:CDL:H172	19:O:101:CDL:H322	1.87	0.55
16:V:102:BCL:HMB1	14:V:103:PGV:H271	1.87	0.55
16:G:103:BCL:HMB1	14:J:101:PGV:H302	1.89	0.55
16:S:102:BCL:H3C	14:T:101:PGV:H221	1.87	0.55
1:C:103:SER:HB2	1:C:106:GLU:HB2	1.88	0.54
2:L:109:LYS:NZ	15:7:103:LMT:O6B	2.38	0.54
16:L:309:BCL:HHC	16:M:403:BCL:H42	1.88	0.54
6:B:39:LEU:HD13	14:0:103:PGV:H12	1.89	0.54
16:P:101:BCL:H8	16:Q:102:BCL:H11	1.88	0.54
16:Y:401:BCL:H91	7:1:19:VAL:HG11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2:ALA:N	19:L:310:CDL:OA3	2.41	0.54
8:J:36:ALA:HB1	14:J:101:PGV:H282	1.90	0.54
8:J:46:TRP:NE1	16:J:102:BCL:HHC	2.23	0.54
16:L:309:BCL:HMB1	16:L:309:BCL:HBB2	1.90	0.54
22:M:406:CRT:H2M2	5:Q:30:PHE:CD1	2.43	0.54
7:W:27:LEU:HD11	5:Y:30:PHE:HZ	1.73	0.54
17:L:303:BPH:HBB3	17:L:303:BPH:HHC	1.90	0.54
5:A:41:VAL:HB	7:9:35:THR:HG21	1.90	0.54
7:I:30:PHE:HB3	14:I:101:PGV:H101	1.90	0.54
7:1:21:MET:HB3	16:1:103:BCL:H12	1.88	0.54
1:C:30:PRO:O	1:C:50:ARG:NH2	2.41	0.54
1:C:88:VAL:O	1:C:92:THR:OG1	2.25	0.54
7:1:29:HIS:CE1	16:2:101:BCL:HMD1	2.44	0.53
7:5:40:TRP:CE3	16:5:103:BCL:HBC3	2.44	0.53
6:B:37:HIS:HB3	14:B:104:PGV:H232	1.89	0.53
16:O:104:BCL:HMD1	8:P:37:HIS:CE1	2.43	0.53
2:L:220:ILE:HD11	18:L:304:UQ8:H10B	1.90	0.53
22:M:406:CRT:H2M2	5:Q:30:PHE:HD1	1.74	0.53
5:Q:7:LEU:HB3	7:S:11:ARG:HG2	1.89	0.53
7:9:27:LEU:HD22	16:9:102:BCL:H18	1.90	0.53
4:H:214:LEU:HB2	4:H:258:ILE:HD13	1.90	0.53
7:S:6:LYS:HB2	22:V:101:CRT:H1M1	1.90	0.53
19:L:310:CDL:HB22	4:H:60:GLY:HA2	1.90	0.53
7:1:33:LEU:O	7:1:39:ASN:ND2	2.42	0.53
2:L:235:PHE:HB2	19:M:402:CDL:H632	1.90	0.53
4:H:278:LEU:HD13	5:7:12:ARG:HB3	1.91	0.53
2:L:130:THR:HA	2:L:134:PHE:HB2	1.90	0.53
7:5:46:TYR:OH	8:6:45:PRO:O	2.27	0.53
14:8:103:PGV:H252	14:8:103:PGV:H92	1.91	0.53
6:B:46:TRP:CD2	16:B:102:BCL:H2C	2.43	0.53
8:J:34:VAL:HG13	14:J:103:PGV:H242	1.89	0.53
6:G:17:GLU:HG2	22:G:102:CRT:H22A	1.89	0.53
6:V:47:ILE:HD12	14:V:103:PGV:H201	1.90	0.53
6:N:22:PHE:CD2	22:N:102:CRT:H14	2.45	0.52
6:4:18:PHE:HB2	22:4:101:CRT:H31A	1.91	0.52
16:I:103:BCL:HMD1	8:J:37:HIS:CE1	2.44	0.52
2:L:98:ILE:HD13	19:M:402:CDL:H202	1.92	0.52
2:L:119:VAL:HG22	19:M:402:CDL:H721	1.90	0.52
16:1:103:BCL:HMD1	8:2:37:HIS:CE1	2.44	0.52
7:I:20:GLY:HA3	16:I:104:BCL:H101	1.90	0.52
6:Z:37:HIS:CD2	14:Z:104:PGV:H11	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:193:LEU:HD22	2:L:216:PHE:CE2	2.45	0.52
7:I:6:LYS:HD3	22:N:102:CRT:H1M1	1.91	0.52
16:J:102:BCL:H162	16:K:101:BCL:HMB2	1.91	0.52
16:I:104:BCL:HBA2	16:I:104:BCL:HBD	1.90	0.52
5:3:37:ARG:O	6:4:44:ARG:NH1	2.37	0.52
22:8:101:CRT:H393	7:9:26:LEU:HD23	1.92	0.52
5:Y:37:ARG:O	6:Z:44:ARG:NH1	2.38	0.52
8:6:46:TRP:CD2	16:6:102:BCL:H2C	2.44	0.52
2:L:195:LEU:HD21	3:M:267:ARG:HG2	1.92	0.52
16:G:103:BCL:H102	8:J:32:VAL:HG11	1.91	0.52
5:U:8:TYR:OH	7:W:11:ARG:O	2.25	0.52
7:5:18:HIS:HD2	16:5:103:BCL:H72	1.74	0.52
22:8:101:CRT:H372	7:9:29:HIS:CG	2.45	0.52
17:L:303:BPH:HHC	17:L:303:BPH:CBB	2.40	0.52
22:G:102:CRT:H292	16:I:104:BCL:HBB3	1.91	0.52
16:R:102:BCL:H93	8:T:32:VAL:HG11	1.91	0.52
8:0:10:VAL:HG23	8:0:14:GLU:HG3	1.91	0.52
14:4:103:PGV:H52	14:6:101:PGV:H142	1.93	0.51
3:M:14:ARG:NH1	4:H:150:GLU:OE2	2.39	0.51
15:H:304:LMT:H4B	7:I:12:ARG:HD2	1.92	0.51
8:2:37:HIS:CE1	14:2:103:PGV:H11	2.46	0.51
3:M:261:THR:H	3:M:264:SER:HB3	1.75	0.51
22:Y:403:CRT:H372	7:1:29:HIS:CG	2.45	0.51
16:D:101:BCL:HMD1	8:E:37:HIS:CE1	2.44	0.51
2:L:170:ASN:HB3	2:L:173:HIS:HB3	1.92	0.51
2:L:174:MET:SD	16:L:309:BCL:HED3	2.51	0.51
3:M:241:ARG:HB3	4:H:85:LYS:HE2	1.92	0.51
14:E:102:PGV:H91	14:E:102:PGV:H221	1.93	0.51
22:N:102:CRT:H372	7:O:29:HIS:CG	2.45	0.51
7:O:34:SER:HA	14:O:102:PGV:H201	1.93	0.51
7:S:9:ASP:OD2	7:S:12:ARG:NH2	2.44	0.51
7:W:46:TYR:OH	8:X:45:PRO:O	2.21	0.51
5:3:4:LEU:HD21	16:5:103:BCL:H141	1.92	0.51
4:H:20:ALA:HB2	14:H:303:PGV:H321	1.91	0.51
6:G:48:PRO:HG3	7:I:43:GLY:HA2	1.93	0.51
7:5:32:LEU:O	7:5:35:THR:OG1	2.25	0.51
14:6:103:PGV:H272	6:8:36:ALA:HB1	1.92	0.51
5:7:40:TRP:CD1	5:7:41:VAL:HG13	2.46	0.51
7:O:6:LYS:HB2	22:R:101:CRT:H1M1	1.93	0.51
5:U:9:ASP:HB3	5:U:12:ARG:HE	1.76	0.51
22:Y:403:CRT:H292	16:1:104:BCL:HBB3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:9:40:TRP:CZ2	16:9:101:BCL:HHC	2.46	0.51
1:C:149:THR:HA	1:C:327:LYS:HG2	1.92	0.51
2:L:36:GLY:HA2	2:L:39:THR:HG22	1.93	0.50
3:M:35:THR:HB	19:M:408:CDL:HB62	1.93	0.50
3:M:287:THR:HB	3:M:294:TRP:NE1	2.21	0.50
14:B:103:PGV:H132	8:E:39:LEU:HD13	1.93	0.50
6:8:12:ASP:O	6:8:16:LYS:HG2	2.11	0.50
2:L:264:ASN:O	2:L:268:ASN:ND2	2.35	0.50
17:M:404:BPH:HBC3	17:M:404:BPH:HHD	1.93	0.50
1:C:50:ARG:NH1	14:C:408:PGV:O14	2.44	0.50
14:H:303:PGV:H42	14:H:303:PGV:H211	1.92	0.50
2:L:193:LEU:HD22	2:L:216:PHE:HE2	1.76	0.50
22:B:101:CRT:H1M1	7:9:6:LYS:HB2	1.94	0.50
3:M:109:LEU:HD11	7:S:31:ILE:HG23	1.93	0.50
16:B:102:BCL:H13	16:D:102:BCL:C4B	2.42	0.50
16:G:103:BCL:H13	16:I:104:BCL:C3B	2.41	0.50
7:S:8:LEU:HD23	5:U:11:ARG:HG3	1.94	0.50
1:C:63:ALA:HB3	1:C:93:ARG:HE	1.77	0.50
5:Q:20:TRP:HB2	16:S:102:BCL:H122	1.92	0.50
8:6:39:LEU:HB3	14:6:101:PGV:H211	1.93	0.50
7:D:33:LEU:O	7:D:39:ASN:ND2	2.45	0.50
6:G:43:TRP:HD1	14:G:101:PGV:H012	1.75	0.50
14:P:102:PGV:H231	14:P:103:PGV:H62	1.94	0.50
2:L:66:ILE:HG21	2:L:89:ILE:HD12	1.94	0.49
22:B:101:CRT:H402	16:D:101:BCL:HBB2	1.93	0.49
7:D:23:VAL:HG12	16:D:102:BCL:H161	1.94	0.49
4:H:246:GLU:OE1	4:H:249:ARG:NH1	2.42	0.49
19:H:301:CDL:OA3	5:F:12:ARG:NH1	2.44	0.49
10:C:403:HEC:HBB1	2:L:165:LEU:HD22	1.93	0.49
14:G:104:PGV:H82	14:J:101:PGV:H142	1.94	0.49
14:P:102:PGV:H142	14:P:103:PGV:H42	1.94	0.49
16:8:102:BCL:H121	16:9:102:BCL:C3B	2.43	0.49
1:C:224:LEU:HD11	3:M:168:MET:HE1	1.95	0.49
3:M:13:VAL:HG13	4:H:196:PRO:HG3	1.95	0.49
5:7:33:LEU:O	15:7:101:LMT:H6E	2.12	0.49
3:M:62:LEU:HD22	16:S:103:BCL:H171	1.92	0.49
6:V:18:PHE:HA	22:V:101:CRT:H6	1.94	0.49
14:0:104:PGV:H251	14:0:104:PGV:H101	1.94	0.49
16:5:104:BCL:HMB2	8:6:29:TYR:HE1	1.77	0.49
1:C:44:GLU:N	1:C:253:THR:HG21	2.28	0.49
1:C:241:MET:HB3	10:C:403:HEC:C4B	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:M:410:CDL:HB32	15:M:411:LMT:H4'	1.94	0.49
7:S:12:ARG:HD2	19:S:101:CDL:OB3	2.12	0.49
1:C:167:TRP:HD1	1:C:311:GLN:HG2	1.76	0.49
2:L:34:ILE:HD11	7:9:16:LEU:HD23	1.93	0.49
22:G:102:CRT:H35	16:I:103:BCL:HMB2	1.94	0.49
7:S:40:TRP:CZ2	16:S:102:BCL:HHC	2.48	0.49
7:5:35:THR:HA	15:5:102:LMT:H1B	1.94	0.49
8:0:41:TRP:CD1	14:0:104:PGV:H05	2.47	0.49
3:M:280:GLY:HA2	16:M:403:BCL:HED2	1.95	0.49
16:A:101:BCL:H18	7:9:1:MET:HE2	1.95	0.49
5:U:17:ILE:HA	16:W:101:BCL:H91	1.94	0.49
6:Z:47:ILE:HG21	14:Z:103:PGV:H211	1.95	0.49
7:1:22:ALA:HA	16:1:103:BCL:H43	1.94	0.49
14:H:303:PGV:H222	14:H:303:PGV:H71	1.96	0.48
6:V:22:PHE:CD2	22:V:101:CRT:H14	2.48	0.48
14:1:101:PGV:H251	14:1:102:PGV:H202	1.95	0.48
16:9:101:BCL:H3C	14:0:101:PGV:H231	1.94	0.48
2:L:269:VAL:HG12	2:L:271:ILE:H	1.77	0.48
19:M:410:CDL:H311	16:Y:401:BCL:H3C	1.95	0.48
16:7:104:BCL:H62	16:7:104:BCL:H41	1.62	0.48
16:4:102:BCL:H142	8:6:29:TYR:HD1	1.79	0.48
4:H:121:ALA:HB2	4:H:264:GLY:HA3	1.95	0.48
16:D:101:BCL:H2	16:D:102:BCL:HHB	1.96	0.48
7:O:40:TRP:CE3	16:O:104:BCL:HBC2	2.48	0.48
5:U:40:TRP:CD2	16:U:101:BCL:H2C	2.49	0.48
7:I:30:PHE:HE1	14:I:101:PGV:H211	1.78	0.48
14:R:103:PGV:H301	14:R:103:PGV:H242	1.96	0.48
4:H:211:ASP:OD1	4:H:212:ARG:N	2.47	0.48
22:R:101:CRT:H372	7:S:29:HIS:CG	2.49	0.48
6:4:18:PHE:HA	22:4:101:CRT:H6	1.95	0.48
8:0:11:SER:OG	8:0:14:GLU:HG2	2.14	0.48
3:M:4:TYR:CE1	19:M:409:CDL:HA21	2.49	0.48
5:K:20:TRP:HB2	16:O:104:BCL:H111	1.96	0.48
5:Y:7:LEU:HD21	8:2:18:PHE:CE1	2.49	0.48
21:M:405:MQ8:H352	21:M:405:MQ8:H312	1.65	0.47
4:H:97:GLU:HG2	4:H:98:PRO:HD2	1.95	0.47
7:O:15:VAL:HG11	19:O:101:CDL:HB32	1.96	0.47
7:5:18:HIS:CD2	16:5:103:BCL:H72	2.49	0.47
14:L:305:PGV:H291	14:L:305:PGV:H262	1.69	0.47
3:M:164:TRP:CZ3	3:M:173:LYS:HB3	2.49	0.47
16:M:403:BCL:H202	22:M:406:CRT:H16	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:J:43:TRP:CD1	14:J:101:PGV:H012	2.48	0.47
8:X:41:TRP:HE1	14:X:102:PGV:H062	1.80	0.47
2:L:60:ASN:O	2:L:64:ILE:HG13	2.13	0.47
2:L:150:ILE:HG13	14:L:305:PGV:H321	1.96	0.47
16:L:302:BCL:H2	17:L:303:BPH:HBB3	1.95	0.47
16:Q:102:BCL:H91	6:R:25:SER:HB3	1.96	0.47
5:U:23:VAL:HG21	16:W:101:BCL:H193	1.96	0.47
14:4:103:PGV:H81	14:4:103:PGV:H272	1.96	0.47
1:C:310:VAL:HG13	1:C:314:THR:HB	1.95	0.47
16:L:308:BCL:H93	16:L:308:BCL:HBA1	1.95	0.47
3:M:197:TYR:OH	16:M:403:BCL:OBB	2.20	0.47
16:N:103:BCL:H111	16:N:103:BCL:H93	1.70	0.47
5:Y:20:TRP:CD1	16:1:103:BCL:H93	2.49	0.47
8:0:42:ALA:HB1	14:0:101:PGV:H32	1.97	0.47
19:H:301:CDL:H512	7:D:8:LEU:HD13	1.97	0.47
7:D:28:ILE:HD12	16:E:101:BCL:O1D	2.14	0.47
5:3:44:ALA:HB3	6:4:44:ARG:HH12	1.80	0.47
1:C:108:CYS:SG	10:C:401:HEC:HBB1	2.54	0.47
2:L:44:VAL:HG11	16:D:101:BCL:H201	1.96	0.47
2:L:224:ILE:HG12	2:L:228:GLY:HA3	1.97	0.47
3:M:148:TRP:HB3	19:M:407:CDL:H732	1.95	0.47
3:M:289:THR:HB	14:O:102:PGV:H32	1.97	0.47
8:6:37:HIS:CD2	14:6:104:PGV:H101	2.49	0.47
7:9:24:LEU:HD23	16:0:102:BCL:HED3	1.96	0.47
1:C:127:VAL:HG13	1:C:292:LEU:HD13	1.96	0.47
2:L:30:PHE:HZ	19:L:310:CDL:H712	1.79	0.47
4:H:121:ALA:HA	4:H:260:GLY:O	2.15	0.47
22:N:102:CRT:H292	16:O:105:BCL:HBB3	1.96	0.47
22:Y:403:CRT:H20	22:Y:403:CRT:H181	1.80	0.47
14:1:101:PGV:H21	5:3:33:LEU:HD22	1.96	0.47
7:9:40:TRP:CE3	16:9:101:BCL:HBC3	2.50	0.47
18:L:304:UQ8:H7	18:L:304:UQ8:H10	1.56	0.47
19:M:410:CDL:H312	5:Y:16:GLY:HA2	1.97	0.47
4:H:1:MET:SD	4:H:1:MET:N	2.64	0.47
1:C:130:GLN:HG2	1:C:292:LEU:HD11	1.96	0.47
2:L:212:GLU:OE2	3:M:235:ILE:HG13	2.15	0.47
1:C:208:LEU:HD22	1:C:309:LYS:HD3	1.96	0.46
4:H:234:THR:HG22	4:H:236:GLN:H	1.80	0.46
19:H:301:CDL:H582	16:D:102:BCL:H102	1.96	0.46
6:Z:39:LEU:HB3	14:Z:101:PGV:H211	1.97	0.46
1:C:197:SER:OG	3:M:184:ASP:OD2	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I:22:ALA:HA	16:I:103:BCL:H43	1.96	0.46
7:O:21:MET:HG3	16:O:105:BCL:HMA2	1.97	0.46
16:Y:402:BCL:HMD1	6:Z:37:HIS:CE1	2.51	0.46
22:4:101:CRT:H35	16:5:103:BCL:CMB	2.44	0.46
2:L:137:LEU:O	15:L:301:LMT:H3'	2.16	0.46
2:L:207:LYS:HG3	3:M:142:LEU:HD23	1.96	0.46
3:M:63:PHE:CZ	3:M:124:LEU:HD23	2.51	0.46
5:A:37:ARG:O	6:B:44:ARG:NH1	2.45	0.46
16:A:101:BCL:HMD1	6:B:37:HIS:CE1	2.50	0.46
6:B:48:PRO:HG3	7:D:43:GLY:HA2	1.98	0.46
7:D:40:TRP:CZ2	16:D:101:BCL:HHC	2.50	0.46
19:S:101:CDL:H112	5:U:15:ILE:HG22	1.97	0.46
16:S:102:BCL:H102	16:S:102:BCL:H61	1.40	0.46
7:5:1:MET:HE1	16:7:104:BCL:H202	1.97	0.46
16:6:102:BCL:H161	5:7:26:LEU:HD23	1.97	0.46
2:L:168:HIS:HB3	3:M:183:LEU:HD13	1.98	0.46
16:4:102:BCL:H143	8:6:29:TYR:HB2	1.98	0.46
1:C:93:ARG:HH12	1:C:332:TYR:HA	1.81	0.46
1:C:237:SER:O	1:C:241:MET:HG2	2.16	0.46
18:L:307:UQ8:H3M	16:L:309:BCL:H161	1.96	0.46
14:B:103:PGV:H272	8:E:36:ALA:HB1	1.98	0.46
14:B:104:PGV:H272	14:B:104:PGV:H241	1.70	0.46
5:K:31:ILE:HD12	22:N:102:CRT:H2M2	1.98	0.46
5:Y:8:TYR:HD1	16:Y:401:BCL:OBD	1.99	0.46
5:Y:8:TYR:OH	7:1:14:VAL:HB	2.14	0.46
17:L:303:BPH:H202	16:L:308:BCL:C1B	2.46	0.46
14:L:305:PGV:H21	14:F:101:PGV:H011	1.96	0.46
16:B:102:BCL:H91	16:B:102:BCL:H111	1.73	0.46
16:V:102:BCL:HMB1	16:V:102:BCL:HBB2	1.97	0.46
14:1:102:PGV:H11	14:1:102:PGV:H82	1.77	0.46
2:L:76:ALA:HA	15:7:102:LMT:H3'	1.98	0.46
2:L:180:PHE:CD2	2:L:240:ALA:HB1	2.51	0.46
3:M:179:ILE:O	3:M:182:HIS:ND1	2.49	0.46
4:H:188:TRP:HB2	4:H:198:TYR:HB2	1.98	0.46
7:I:16:LEU:HD12	16:I:104:BCL:H193	1.97	0.46
16:I:104:BCL:HBA1	8:J:26:PHE:HA	1.98	0.46
7:O:24:LEU:HB2	16:O:105:BCL:H121	1.98	0.46
16:O:105:BCL:HMB1	16:O:105:BCL:HBB2	1.98	0.46
5:7:10:PRO:HB3	6:8:18:PHE:CZ	2.51	0.46
2:L:15:GLY:HA2	2:L:109:LYS:HD3	1.98	0.46
7:1:6:LYS:HB2	22:4:101:CRT:H1M1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:222:PRO:HA	3:M:292:GLU:HB2	1.98	0.45
16:S:102:BCL:H41	16:S:102:BCL:H61	1.60	0.45
22:4:101:CRT:H372	7:5:29:HIS:CG	2.52	0.45
14:C:408:PGV:H212	14:C:408:PGV:H62	1.97	0.45
16:F:103:BCL:HMD1	6:G:37:HIS:CE1	2.51	0.45
14:1:101:PGV:H32	5:3:33:LEU:HD13	1.97	0.45
16:1:104:BCL:HHD	16:1:104:BCL:HAC1	1.83	0.45
7:9:31:ILE:O	7:9:34:SER:OG	2.27	0.45
1:C:238:TYR:OH	2:L:165:LEU:O	2.28	0.45
16:L:302:BCL:HBC2	16:M:403:BCL:HBC2	1.98	0.45
3:M:8:PHE:O	19:M:409:CDL:O1	2.30	0.45
6:N:47:ILE:HG21	14:N:104:PGV:H202	1.97	0.45
16:1:103:BCL:HBC3	16:1:103:BCL:H2C	1.79	0.45
16:2:101:BCL:H93	16:2:101:BCL:HMA2	1.98	0.45
16:2:101:BCL:HMB1	16:2:101:BCL:HBB2	1.98	0.45
2:L:130:THR:HG23	2:L:249:ILE:HD13	1.99	0.45
4:H:171:TYR:CZ	4:H:226:SER:HA	2.52	0.45
14:P:102:PGV:H202	6:R:43:TRP:HB2	1.97	0.45
6:V:30:THR:HG23	16:V:102:BCL:H11	1.98	0.45
16:W:101:BCL:H62	16:W:101:BCL:H41	1.48	0.45
7:5:21:MET:HB3	16:6:102:BCL:HED1	1.97	0.45
5:7:31:ILE:HD12	22:8:101:CRT:H2M2	1.98	0.45
2:L:10:TYR:HA	4:H:119:GLY:HA2	1.98	0.45
2:L:191:GLY:O	2:L:195:LEU:HG	2.17	0.45
5:F:17:ILE:HG12	16:I:103:BCL:H101	1.97	0.45
22:V:101:CRT:H402	16:W:101:BCL:HBB2	1.99	0.45
16:G:103:BCL:H141	8:J:29:TYR:CD1	2.52	0.45
16:R:102:BCL:HMB1	16:R:102:BCL:HBB2	1.99	0.45
7:1:24:LEU:HD13	16:1:104:BCL:H142	1.98	0.45
5:3:3:ARG:HA	5:3:6:LYS:HG3	1.98	0.45
14:8:103:PGV:H292	14:8:103:PGV:H261	1.82	0.45
16:W:102:BCL:H52	16:W:102:BCL:H8	1.81	0.45
14:Z:103:PGV:H72	14:Z:103:PGV:H41	1.89	0.45
16:3:102:BCL:H18	6:4:28:ILE:HD12	1.99	0.45
16:6:102:BCL:HMB1	16:6:102:BCL:HBB2	1.98	0.45
22:8:101:CRT:H35	16:9:101:BCL:HMB2	1.99	0.45
10:C:403:HEC:HMC1	10:C:403:HEC:HBC3	1.98	0.45
3:M:153:ALA:HB2	17:M:404:BPH:HAC1	1.99	0.45
16:D:102:BCL:H52	16:D:102:BCL:H8	1.86	0.45
7:O:34:SER:HB2	15:O:103:LMT:H1'	1.99	0.45
6:8:41:TRP:CE2	14:8:103:PGV:H012	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:L:309:BCL:HBB1	3:M:157:PHE:CE1	2.52	0.45
4:H:38:ARG:NH2	4:H:66:SER:O	2.49	0.45
16:F:103:BCL:H202	16:F:103:BCL:H161	1.83	0.45
6:R:41:TRP:CD2	14:R:103:PGV:H201	2.51	0.45
16:9:101:BCL:H61	16:9:101:BCL:H41	1.49	0.45
16:E:101:BCL:HBB1	14:G:101:PGV:H262	1.99	0.44
7:S:24:LEU:HD22	16:T:102:BCL:H102	1.98	0.44
14:T:104:PGV:H222	14:T:104:PGV:H72	1.99	0.44
7:5:37:ASN:O	8:6:44:ARG:NH1	2.42	0.44
5:F:4:LEU:HD11	16:I:104:BCL:HHD	1.99	0.44
7:I:10:TYR:OH	16:I:104:BCL:HMD1	2.17	0.44
16:P:101:BCL:CHB	16:Q:102:BCL:HMB3	2.47	0.44
8:X:46:TRP:CE2	16:X:101:BCL:H2C	2.52	0.44
22:Y:403:CRT:H293	16:1:103:BCL:H72	1.97	0.44
6:4:22:PHE:CD2	22:4:101:CRT:H14	2.53	0.44
3:M:8:PHE:HE2	19:M:409:CDL:H132	1.82	0.44
6:B:22:PHE:CD2	22:B:101:CRT:H14	2.52	0.44
8:T:10:VAL:O	8:T:14:GLU:HB3	2.17	0.44
16:Y:402:BCL:H152	6:Z:25:SER:HA	2.00	0.44
16:6:102:BCL:H51	16:6:102:BCL:H8	1.64	0.44
6:B:37:HIS:CD2	14:B:104:PGV:H11	2.52	0.44
7:W:1:MET:HG2	7:W:4:MET:HB2	1.99	0.44
16:5:104:BCL:H143	16:5:104:BCL:H161	1.76	0.44
16:8:102:BCL:HMB1	16:8:102:BCL:HBB2	1.99	0.44
7:9:28:ILE:HD12	16:0:102:BCL:O1D	2.17	0.44
16:9:101:BCL:HMD1	8:0:37:HIS:CE1	2.53	0.44
4:H:30:VAL:O	4:H:34:MET:HG3	2.18	0.44
8:E:46:TRP:CE2	16:E:101:BCL:H2C	2.53	0.44
7:I:28:ILE:HD12	16:J:102:BCL:O1D	2.17	0.44
16:I:103:BCL:H41	16:I:103:BCL:H61	1.43	0.44
16:3:102:BCL:HBA1	16:3:102:BCL:H3A	1.57	0.44
7:9:38:PHE:HZ	8:0:46:TRP:HA	1.83	0.44
1:C:344:ASP:C	1:C:346:LEU:H	2.19	0.44
3:M:61:ILE:HD12	17:M:404:BPH:H102	1.99	0.44
4:H:61:PHE:CE1	15:H:304:LMT:H6D	2.52	0.44
22:G:102:CRT:H20	22:G:102:CRT:H181	1.78	0.44
14:R:103:PGV:H222	14:R:103:PGV:H61	1.99	0.44
7:S:40:TRP:CE3	16:S:102:BCL:HBC3	2.52	0.44
14:1:101:PGV:H202	14:1:101:PGV:H52	1.99	0.44
16:4:102:BCL:H92	16:5:103:BCL:HMA2	2.00	0.44
5:A:24:LEU:HD23	16:B:102:BCL:HED3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:101:PGV:H251	14:G:101:PGV:H221	1.67	0.44
6:R:41:TRP:CG	14:R:103:PGV:H201	2.53	0.44
7:5:24:LEU:HD13	16:5:104:BCL:H142	2.00	0.44
16:9:101:BCL:H62	16:9:101:BCL:H102	1.62	0.44
5:F:12:ARG:NH2	15:F:102:LMT:O3'	2.47	0.44
16:G:103:BCL:H13	16:I:104:BCL:C2B	2.48	0.44
16:P:101:BCL:HBB2	16:P:101:BCL:HMB1	2.00	0.44
7:S:10:TYR:OH	16:S:103:BCL:HMD1	2.18	0.44
16:S:103:BCL:H191	5:U:23:VAL:HG22	1.99	0.44
16:2:101:BCL:H91	16:2:101:BCL:H112	1.72	0.44
6:4:48:PRO:HG3	7:5:43:GLY:HA2	2.00	0.44
6:8:10:LEU:HD23	6:8:10:LEU:HA	1.91	0.44
2:L:44:VAL:HG21	16:D:101:BCL:H201	1.99	0.44
14:L:305:PGV:H302	14:L:305:PGV:H331	1.90	0.44
18:L:306:UQ8:H20	18:L:306:UQ8:H17A	1.72	0.44
14:X:102:PGV:H261	14:X:102:PGV:H311	1.99	0.44
5:F:4:LEU:HD12	16:I:104:BCL:HAC1	1.99	0.43
7:W:40:TRP:CZ2	16:W:101:BCL:HHC	2.52	0.43
18:L:307:UQ8:H1M	3:M:91:PHE:HE1	1.83	0.43
3:M:228:ARG:HB3	4:H:219:PHE:CZ	2.53	0.43
21:M:405:MQ8:H411	21:M:405:MQ8:H471	2.00	0.43
14:1:101:PGV:H252	14:1:102:PGV:H82	1.99	0.43
5:3:10:PRO:HB3	6:4:18:PHE:CE1	2.53	0.43
16:L:302:BCL:H152	17:L:303:BPH:H3A	2.00	0.43
3:M:3:GLU:HG2	3:M:228:ARG:NH2	2.34	0.43
22:N:102:CRT:H35	16:O:104:BCL:CMB	2.45	0.43
22:R:101:CRT:H292	16:S:103:BCL:HBB3	2.00	0.43
16:9:101:BCL:H143	16:9:101:BCL:H111	1.79	0.43
1:C:145:HIS:ND1	1:C:273:ILE:O	2.38	0.43
2:L:174:MET:HB2	18:L:307:UQ8:C9	2.48	0.43
16:B:102:BCL:H192	16:B:102:BCL:H161	1.81	0.43
7:D:40:TRP:CE3	16:D:101:BCL:HBC2	2.53	0.43
16:K:101:BCL:H202	6:N:24:GLN:HB3	2.00	0.43
14:N:104:PGV:H252	16:O:104:BCL:H3C	2.00	0.43
5:U:37:ARG:O	6:V:44:ARG:NH1	2.42	0.43
7:W:12:ARG:HG3	7:W:13:THR:N	2.33	0.43
13:C:407:PLM:H72	2:L:262:TRP:CZ2	2.54	0.43
19:M:402:CDL:H712	19:M:409:CDL:H352	1.99	0.43
4:H:10:TYR:CE2	14:I:101:PGV:H61	2.53	0.43
16:B:102:BCL:HAA1	14:B:104:PGV:H132	1.99	0.43
16:R:102:BCL:H61	16:R:102:BCL:H41	1.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:U:21:LEU:HD12	16:U:101:BCL:H43	2.00	0.43
22:8:101:CRT:H15	22:8:101:CRT:H131	1.81	0.43
1:C:156:CYS:O	1:C:317:TYR:OH	2.30	0.43
17:M:404:BPH:H6C1	17:M:404:BPH:H4C1	1.34	0.43
7:I:40:TRP:CZ2	16:I:103:BCL:HHC	2.54	0.43
5:Q:30:PHE:CD2	15:Q:101:LMT:H72	2.52	0.43
7:5:6:LYS:HB2	22:8:101:CRT:H1M1	2.00	0.43
18:L:306:UQ8:H17A	18:L:306:UQ8:H15A	1.88	0.43
4:H:265:GLY:O	4:H:273:ARG:NH1	2.51	0.43
22:N:102:CRT:H36	7:O:26:LEU:HD23	2.01	0.43
14:T:103:PGV:H162	14:T:104:PGV:H301	2.00	0.43
5:Y:24:LEU:HD23	16:Z:102:BCL:HED3	2.00	0.43
7:1:38:PHE:HZ	8:2:46:TRP:HA	1.83	0.43
22:4:101:CRT:H10	22:4:101:CRT:H81	1.86	0.43
6:8:41:TRP:HE1	14:8:103:PGV:H061	1.84	0.43
3:M:316:ASP:HB3	3:M:319:ALA:HB2	2.01	0.43
16:F:103:BCL:HHD	16:F:103:BCL:HBC3	2.01	0.43
1:C:77:TYR:HB3	10:C:401:HEC:CGA	2.49	0.43
19:H:301:CDL:HB32	7:D:12:ARG:HB2	2.00	0.43
6:G:18:PHE:HA	22:G:102:CRT:H6	2.01	0.43
16:G:103:BCL:H143	16:G:103:BCL:H111	1.79	0.43
4:H:142:PRO:HA	4:H:188:TRP:HA	2.00	0.43
16:E:101:BCL:H51	16:F:103:BCL:HMA2	2.01	0.43
8:J:43:TRP:HB2	14:J:101:PGV:H211	2.01	0.43
16:S:103:BCL:H2C	16:S:103:BCL:HBC2	1.78	0.43
7:1:40:TRP:CZ2	16:1:103:BCL:HHC	2.53	0.43
14:1:101:PGV:H201	14:1:102:PGV:H32	2.01	0.43
8:2:46:TRP:CE2	16:2:101:BCL:H2C	2.54	0.43
3:M:155:PHE:CE2	3:M:281:GLY:HA3	2.54	0.42
3:M:197:TYR:CE1	16:M:403:BCL:HMC2	2.54	0.42
3:M:264:SER:HA	3:M:267:ARG:HG3	2.01	0.42
14:I:101:PGV:H81	14:I:101:PGV:H241	2.00	0.42
16:Q:102:BCL:H162	16:Q:102:BCL:H192	1.74	0.42
14:Z:104:PGV:H272	14:Z:104:PGV:H241	1.78	0.42
5:A:9:ASP:O	5:A:13:VAL:HG22	2.19	0.42
22:B:101:CRT:H372	7:D:29:HIS:CG	2.54	0.42
6:N:24:GLN:O	6:N:28:ILE:HG12	2.20	0.42
6:R:46:TRP:CE2	16:R:102:BCL:H2C	2.55	0.42
14:T:103:PGV:H131	14:T:103:PGV:H102	1.77	0.42
5:U:40:TRP:CE3	16:U:101:BCL:HAC2	2.55	0.42
1:C:73:ALA:N	1:C:86:LEU:O	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:94:LEU:HG	2:L:128:TYR:HE2	1.84	0.42
16:L:308:BCL:H3A	16:L:308:BCL:HBA2	1.84	0.42
22:M:406:CRT:H15	22:M:406:CRT:H131	1.94	0.42
4:H:62:PRO:HB3	15:H:304:LMT:H6E	2.00	0.42
14:H:303:PGV:H281	14:H:303:PGV:H312	1.76	0.42
5:A:35:THR:HG21	7:D:41:LEU:HB3	2.02	0.42
5:Q:40:TRP:CE3	16:Q:102:BCL:HBC2	2.54	0.42
5:3:29:HIS:NE2	16:3:102:BCL:NB	2.67	0.42
3:M:106:LEU:HD21	22:M:406:CRT:H2M1	2.01	0.42
4:H:11:MET:HA	4:H:15:GLN:OE1	2.19	0.42
22:R:101:CRT:H20	22:R:101:CRT:H181	1.81	0.42
16:S:102:BCL:HMD1	8:T:37:HIS:CE1	2.54	0.42
22:Y:403:CRT:H392	7:1:29:HIS:HB3	2.01	0.42
16:L:308:BCL:HBB2	16:L:308:BCL:HMB1	2.00	0.42
14:E:102:PGV:H72	14:G:101:PGV:H141	2.00	0.42
5:F:9:ASP:OD2	5:F:11:ARG:NH2	2.47	0.42
22:N:102:CRT:H10	22:N:102:CRT:H81	1.92	0.42
16:N:103:BCL:HBB1	14:N:104:PGV:H251	2.02	0.42
14:P:102:PGV:H12	14:P:102:PGV:H151	1.68	0.42
5:Q:27:VAL:O	5:Q:31:ILE:HG13	2.19	0.42
6:R:18:PHE:HB2	22:R:101:CRT:H31A	2.01	0.42
16:5:103:BCL:HMB1	16:5:103:BCL:HBB2	2.01	0.42
16:5:104:BCL:H2C	16:5:104:BCL:HBC2	1.75	0.42
3:M:286:LEU:HD23	14:O:102:PGV:H101	2.01	0.42
6:R:53:TYR:CE2	7:S:43:GLY:HA3	2.54	0.42
14:T:104:PGV:H012	14:T:104:PGV:H042	2.00	0.42
5:3:24:LEU:HD23	16:4:102:BCL:HED3	2.00	0.42
22:4:101:CRT:H35	16:5:103:BCL:C2B	2.49	0.42
16:5:103:BCL:H202	16:5:103:BCL:H162	1.84	0.42
14:6:104:PGV:H222	14:6:104:PGV:H72	2.01	0.42
8:0:46:TRP:CE2	16:0:102:BCL:HHC	2.55	0.42
4:H:144:ARG:NH1	4:H:248:ASP:OD1	2.52	0.42
7:D:22:ALA:HA	16:D:101:BCL:H43	2.01	0.42
22:N:102:CRT:H20	22:N:102:CRT:H181	1.86	0.42
5:Q:9:ASP:HB3	5:Q:12:ARG:HG3	2.01	0.42
22:R:101:CRT:H10	22:R:101:CRT:H81	1.91	0.42
14:0:103:PGV:O01	14:0:103:PGV:H51	2.20	0.42
1:C:110:TYR:OH	10:C:402:HEC:O1A	2.33	0.42
1:C:251:ASN:O	1:C:254:THR:HG23	2.20	0.42
17:L:303:BPH:H6C2	17:L:303:BPH:H112	2.02	0.42
19:L:310:CDL:HB22	4:H:60:GLY:CA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:M:406:CRT:H10	22:M:406:CRT:H81	1.80	0.42
16:S:103:BCL:HMB1	16:S:103:BCL:HBB2	2.01	0.42
8:T:46:TRP:NE1	16:T:102:BCL:HHC	2.35	0.42
2:L:217:ARG:O	3:M:51:ILE:HA	2.20	0.42
16:L:309:BCL:HBB1	3:M:157:PHE:CD1	2.55	0.42
3:M:228:ARG:HB3	4:H:219:PHE:CE2	2.55	0.42
15:F:102:LMT:H12	15:F:102:LMT:H2'	1.68	0.42
16:I:104:BCL:H203	5:K:15:ILE:HG12	2.02	0.42
14:V:103:PGV:H71	14:V:103:PGV:H42	1.83	0.42
16:3:102:BCL:H192	16:3:102:BCL:H162	1.74	0.42
16:4:102:BCL:H141	16:4:102:BCL:H161	1.80	0.42
1:C:251:ASN:H	1:C:254:THR:HG23	1.84	0.42
19:L:310:CDL:H312	7:D:15:VAL:HG11	2.02	0.42
4:H:61:PHE:HB3	19:H:301:CDL:H142	2.00	0.42
22:G:102:CRT:H15	22:G:102:CRT:H131	1.95	0.42
7:I:1:MET:HG2	16:K:101:BCL:H192	2.02	0.42
16:1:104:BCL:HMB1	16:1:104:BCL:HBB2	2.02	0.42
6:8:18:PHE:HA	22:8:101:CRT:H6	2.01	0.42
2:L:199:ASN:HB3	19:M:407:CDL:HA21	2.02	0.41
19:L:310:CDL:H111	19:L:310:CDL:H142	1.85	0.41
3:M:271:TRP:CZ3	3:M:274:ILE:HD11	2.55	0.41
6:B:36:ALA:HB1	14:0:103:PGV:H252	2.02	0.41
5:Q:6:LYS:O	6:R:7:LEU:HB2	2.20	0.41
14:V:104:PGV:H131	14:V:104:PGV:H102	1.77	0.41
8:2:41:TRP:CD1	14:2:103:PGV:H202	2.55	0.41
14:2:102:PGV:H272	6:4:36:ALA:HB1	2.02	0.41
22:4:101:CRT:H20	22:4:101:CRT:H181	1.81	0.41
7:9:22:ALA:HA	16:9:101:BCL:H43	2.01	0.41
2:L:239:ASN:HD22	2:L:243:TRP:HE1	1.67	0.41
4:H:142:PRO:HG2	4:H:145:VAL:HG13	2.01	0.41
7:D:24:LEU:HD23	16:E:101:BCL:HED3	2.02	0.41
14:G:101:PGV:H12	14:G:101:PGV:H151	1.81	0.41
16:K:101:BCL:HBB2	16:K:101:BCL:HMB1	2.01	0.41
6:R:22:PHE:CD2	22:R:101:CRT:H14	2.55	0.41
7:S:28:ILE:HD12	16:T:102:BCL:O1D	2.20	0.41
7:W:28:ILE:HD12	16:X:101:BCL:O1D	2.19	0.41
16:9:101:BCL:HBB3	16:9:101:BCL:HMB1	2.02	0.41
2:L:138:LEU:HD12	2:L:249:ILE:HD11	2.02	0.41
3:M:236:GLU:HG3	3:M:237:GLN:N	2.35	0.41
14:B:104:PGV:H291	14:B:104:PGV:H261	1.84	0.41
5:F:18:PHE:HE1	22:G:102:CRT:H182	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:O:101:CDL:H402	19:O:101:CDL:H371	1.82	0.41
16:Y:401:BCL:H52	16:Y:401:BCL:CHC	2.51	0.41
6:8:19:HIS:O	6:8:23:MET:HG2	2.21	0.41
14:8:103:PGV:H91	14:8:103:PGV:H62	1.83	0.41
8:0:47:ILE:HD12	14:0:103:PGV:H201	2.00	0.41
1:C:67:SER:HB2	1:C:69:GLU:HG2	2.02	0.41
2:L:153:HIS:O	2:L:157:VAL:HG23	2.20	0.41
5:F:24:LEU:HD23	16:G:103:BCL:HED3	2.02	0.41
5:K:40:TRP:CE3	16:K:101:BCL:HAC2	2.54	0.41
8:0:34:VAL:O	8:0:38:ILE:HG13	2.20	0.41
14:L:305:PGV:H252	14:L:305:PGV:H82	2.03	0.41
7:D:46:TYR:OH	8:E:45:PRO:O	2.29	0.41
22:N:102:CRT:H32	16:O:104:BCL:HHB	2.02	0.41
14:N:104:PGV:H102	14:N:104:PGV:H131	1.88	0.41
19:S:101:CDL:H142	5:U:15:ILE:HG22	2.02	0.41
6:Z:41:TRP:CG	14:Z:104:PGV:H221	2.56	0.41
14:C:408:PGV:H52	14:3:101:PGV:H82	2.02	0.41
16:G:103:BCL:HMB1	16:G:103:BCL:HBB2	2.02	0.41
7:I:17:ALA:HA	16:I:104:BCL:H112	2.01	0.41
16:Q:102:BCL:H162	16:Q:102:BCL:H141	1.74	0.41
16:Q:102:BCL:H61	16:Q:102:BCL:H41	1.82	0.41
5:Y:10:PRO:HB3	6:Z:18:PHE:CE2	2.56	0.41
7:1:24:LEU:HD23	16:2:101:BCL:HED3	2.03	0.41
14:6:101:PGV:H82	14:6:101:PGV:H51	1.91	0.41
7:D:6:LYS:NZ	8:E:10:VAL:O	2.44	0.41
22:N:102:CRT:H26	22:N:102:CRT:H241	1.84	0.41
22:V:101:CRT:H20	22:V:101:CRT:H181	1.82	0.41
5:Y:40:TRP:CD2	16:Y:402:BCL:H2C	2.56	0.41
14:Z:104:PGV:H211	14:Z:104:PGV:H242	1.98	0.41
16:2:101:BCL:H13	16:3:102:BCL:HBA2	2.03	0.41
14:2:102:PGV:H212	14:2:102:PGV:H241	1.80	0.41
5:3:9:ASP:HB3	5:3:12:ARG:HG3	2.02	0.41
5:7:21:LEU:HD22	16:8:102:BCL:HED1	2.03	0.41
1:C:321:LEU:HD22	10:C:404:HEC:CGD	2.51	0.41
14:I:101:PGV:H222	14:I:101:PGV:H52	2.03	0.41
7:O:33:LEU:O	7:O:39:ASN:ND2	2.53	0.41
16:R:102:BCL:CHB	16:S:102:BCL:HMB3	2.50	0.41
6:Z:46:TRP:HZ2	14:Z:104:PGV:H81	1.86	0.41
16:1:104:BCL:H141	16:1:104:BCL:H162	1.61	0.41
16:8:102:BCL:H151	16:9:102:BCL:C4B	2.50	0.41
2:L:124:ALA:HB2	17:L:303:BPH:HBC2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:7:ILE:HD11	19:M:402:CDL:H562	2.01	0.41
3:M:168:MET:HA	3:M:168:MET:HE2	2.02	0.41
6:B:53:TYR:CD2	7:D:43:GLY:HA3	2.56	0.41
22:B:101:CRT:H26	22:B:101:CRT:H241	1.90	0.41
8:J:37:HIS:CG	14:J:103:PGV:H132	2.56	0.41
14:O:102:PGV:H101	14:O:102:PGV:H131	1.79	0.41
14:P:103:PGV:H51	14:P:103:PGV:H82	1.90	0.41
6:G:22:PHE:HE2	16:I:104:BCL:HBC3	1.85	0.41
7:W:18:HIS:CD2	16:W:101:BCL:H51	2.52	0.41
7:1:40:TRP:CE3	16:1:103:BCL:HBC3	2.56	0.41
16:5:104:BCL:H143	5:7:26:LEU:HD11	2.03	0.41
2:L:180:PHE:O	2:L:184:THR:HG22	2.22	0.40
3:M:43:ILE:HD11	19:M:409:CDL:H542	2.02	0.40
5:A:30:PHE:HE1	7:9:31:ILE:HD11	1.86	0.40
6:B:41:TRP:CZ2	14:B:104:PGV:H02	2.56	0.40
16:E:101:BCL:HMB1	14:G:101:PGV:H311	2.03	0.40
22:G:102:CRT:H36	22:G:102:CRT:H341	1.95	0.40
8:J:30:ILE:HD11	16:J:102:BCL:H12	2.02	0.40
5:K:9:ASP:HB3	5:K:12:ARG:HB2	2.03	0.40
7:O:12:ARG:HH12	19:O:101:CDL:HB31	1.86	0.40
7:O:20:GLY:HA3	16:O:105:BCL:H93	2.03	0.40
15:O:103:LMT:H6D	15:Q:101:LMT:H11	2.03	0.40
16:O:105:BCL:H2C	16:O:105:BCL:HBC3	1.81	0.40
16:V:102:BCL:H142	16:V:102:BCL:H112	1.90	0.40
16:Z:102:BCL:H192	16:Z:102:BCL:H162	1.80	0.40
14:4:103:PGV:H61	14:4:103:PGV:H251	2.02	0.40
16:5:103:BCL:H111	16:5:104:BCL:HMC3	2.03	0.40
5:7:9:ASP:OD2	5:7:12:ARG:HD2	2.21	0.40
15:7:101:LMT:H11	15:7:101:LMT:H2'	1.65	0.40
2:L:161:GLY:HA3	16:L:302:BCL:HAC1	2.02	0.40
15:L:301:LMT:O2B	15:7:101:LMT:H3'	2.21	0.40
5:A:8:TYR:C	6:B:8:THR:HG21	2.41	0.40
22:B:101:CRT:H15	22:B:101:CRT:H131	1.93	0.40
8:J:46:TRP:CE2	16:J:102:BCL:H2C	2.56	0.40
19:S:101:CDL:OB6	5:U:15:ILE:HD11	2.22	0.40
16:W:101:BCL:H2	16:W:102:BCL:HMB3	2.03	0.40
16:Z:102:BCL:C2B	14:Z:104:PGV:H101	2.52	0.40
16:3:102:BCL:HBB3	16:3:102:BCL:HMB1	2.03	0.40
5:7:11:ARG:NH1	15:7:103:LMT:O3'	2.54	0.40
5:7:28:ILE:HD12	16:8:102:BCL:O1D	2.22	0.40
1:C:43:MET:HA	1:C:253:THR:OG1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:175:VAL:HG23	1:C:177:MET:H	1.85	0.40
3:M:98:PRO:HG3	3:M:107:PRO:HG3	2.03	0.40
21:M:405:MQ8:H241	21:M:405:MQ8:H261	1.83	0.40
19:M:410:CDL:HA22	16:Y:401:BCL:C1B	2.51	0.40
16:P:101:BCL:H13	16:P:101:BCL:H102	1.82	0.40
14:1:101:PGV:H232	14:1:102:PGV:H202	2.03	0.40
16:4:102:BCL:H121	8:6:28:VAL:HG12	2.04	0.40
1:C:28:ARG:NH2	15:5:101:LMT:O2'	2.34	0.40
19:L:310:CDL:H171	19:L:310:CDL:H202	1.85	0.40
7:D:6:LYS:HE3	7:D:6:LYS:HB3	1.97	0.40
5:K:40:TRP:CD2	16:K:101:BCL:H2C	2.56	0.40
16:T:102:BCL:HMB3	16:U:101:BCL:C4A	2.51	0.40
6:V:38:PHE:CE2	14:V:104:PGV:H201	2.56	0.40
22:Y:403:CRT:H22A	6:Z:17:GLU:HG2	2.03	0.40
6:Z:48:PRO:HG3	7:1:43:GLY:HA2	2.02	0.40
5:3:6:LYS:O	6:4:7:LEU:HD22	2.21	0.40
14:8:103:PGV:H52	14:8:103:PGV:H21	1.92	0.40
2:L:99:THR:HG23	18:L:306:UQ8:H20A	2.04	0.40
2:L:226:SER:O	2:L:230:HIS:ND1	2.53	0.40
3:M:10:ARG:HB2	19:M:409:CDL:H1	2.03	0.40
17:M:404:BPH:H3A	17:M:404:BPH:HBA2	1.94	0.40
16:A:101:BCL:HMB1	16:A:101:BCL:HBB2	2.04	0.40
8:J:46:TRP:CE2	16:J:102:BCL:HHC	2.57	0.40
8:P:14:GLU:HA	8:P:17:GLU:HG2	2.03	0.40
7:S:14:VAL:HG13	7:S:18:HIS:CE1	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	334/362 (92%)	319 (96%)	15 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	L	272/276 (99%)	263 (97%)	9 (3%)	0	100	100
3	M	316/323 (98%)	304 (96%)	12 (4%)	0	100	100
4	H	276/278 (99%)	273 (99%)	3 (1%)	0	100	100
5	3	44/64 (69%)	44 (100%)	0	0	100	100
5	7	44/64 (69%)	44 (100%)	0	0	100	100
5	A	44/64 (69%)	44 (100%)	0	0	100	100
5	F	44/64 (69%)	44 (100%)	0	0	100	100
5	K	44/64 (69%)	44 (100%)	0	0	100	100
5	Q	44/64 (69%)	44 (100%)	0	0	100	100
5	U	44/64 (69%)	44 (100%)	0	0	100	100
5	Y	44/64 (69%)	44 (100%)	0	0	100	100
6	4	45/75 (60%)	44 (98%)	1 (2%)	0	100	100
6	8	45/75 (60%)	43 (96%)	2 (4%)	0	100	100
6	B	46/75 (61%)	44 (96%)	2 (4%)	0	100	100
6	G	45/75 (60%)	43 (96%)	2 (4%)	0	100	100
6	N	45/75 (60%)	44 (98%)	1 (2%)	0	100	100
6	R	45/75 (60%)	43 (96%)	2 (4%)	0	100	100
6	V	45/75 (60%)	44 (98%)	1 (2%)	0	100	100
6	Z	46/75 (61%)	43 (94%)	3 (6%)	0	100	100
7	1	44/67 (66%)	44 (100%)	0	0	100	100
7	5	44/67 (66%)	44 (100%)	0	0	100	100
7	9	44/67 (66%)	43 (98%)	1 (2%)	0	100	100
7	D	44/67 (66%)	44 (100%)	0	0	100	100
7	I	44/67 (66%)	44 (100%)	0	0	100	100
7	O	44/67 (66%)	44 (100%)	0	0	100	100
7	S	44/67 (66%)	44 (100%)	0	0	100	100
7	W	44/67 (66%)	44 (100%)	0	0	100	100
8	0	43/74 (58%)	42 (98%)	1 (2%)	0	100	100
8	2	43/74 (58%)	42 (98%)	1 (2%)	0	100	100
8	6	43/74 (58%)	41 (95%)	2 (5%)	0	100	100
8	E	43/74 (58%)	42 (98%)	1 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	J	43/74 (58%)	42 (98%)	1 (2%)	0	100	100
8	P	43/74 (58%)	42 (98%)	1 (2%)	0	100	100
8	T	43/74 (58%)	41 (95%)	2 (5%)	0	100	100
8	X	43/74 (58%)	42 (98%)	1 (2%)	0	100	100
9	a	91/142 (64%)	84 (92%)	7 (8%)	0	100	100
All	All	2699/3621 (74%)	2628 (97%)	71 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	287/306 (94%)	271 (94%)	16 (6%)	17	30
2	L	218/219 (100%)	217 (100%)	1 (0%)	86	94
3	M	252/255 (99%)	243 (96%)	9 (4%)	30	49
4	H	228/228 (100%)	220 (96%)	8 (4%)	31	51
5	3	39/55 (71%)	39 (100%)	0	100	100
5	7	39/55 (71%)	38 (97%)	1 (3%)	41	62
5	A	39/55 (71%)	39 (100%)	0	100	100
5	F	39/55 (71%)	39 (100%)	0	100	100
5	K	39/55 (71%)	39 (100%)	0	100	100
5	Q	39/55 (71%)	38 (97%)	1 (3%)	41	62
5	U	39/55 (71%)	37 (95%)	2 (5%)	20	35
5	Y	39/55 (71%)	39 (100%)	0	100	100
6	4	37/57 (65%)	37 (100%)	0	100	100
6	8	37/57 (65%)	37 (100%)	0	100	100
6	B	38/57 (67%)	37 (97%)	1 (3%)	41	62
6	G	37/57 (65%)	37 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
6	N	37/57 (65%)	37 (100%)	0	100 100
6	R	37/57 (65%)	37 (100%)	0	100 100
6	V	37/57 (65%)	37 (100%)	0	100 100
6	Z	38/57 (67%)	35 (92%)	3 (8%)	10 16
7	1	41/55 (74%)	41 (100%)	0	100 100
7	5	41/55 (74%)	41 (100%)	0	100 100
7	9	41/55 (74%)	41 (100%)	0	100 100
7	D	41/55 (74%)	41 (100%)	0	100 100
7	I	41/55 (74%)	40 (98%)	1 (2%)	44 64
7	O	41/55 (74%)	41 (100%)	0	100 100
7	S	41/55 (74%)	41 (100%)	0	100 100
7	W	41/55 (74%)	40 (98%)	1 (2%)	44 64
8	0	35/52 (67%)	32 (91%)	3 (9%)	8 14
8	2	35/52 (67%)	35 (100%)	0	100 100
8	6	35/52 (67%)	35 (100%)	0	100 100
8	E	35/52 (67%)	34 (97%)	1 (3%)	37 58
8	J	35/52 (67%)	35 (100%)	0	100 100
8	P	35/52 (67%)	34 (97%)	1 (3%)	37 58
8	T	35/52 (67%)	35 (100%)	0	100 100
8	X	35/52 (67%)	35 (100%)	0	100 100
9	a	73/111 (66%)	68 (93%)	5 (7%)	13 22
All	All	2276/2871 (79%)	2222 (98%)	54 (2%)	45 64

All (54) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	39	ARG
1	C	54	ASP
1	C	84	ASP
1	C	92	THR
1	C	108	CYS
1	C	115	ASN
1	C	121	GLU
1	C	152	THR
1	C	175	VAL

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Mol	Chain	Res	Type
1	C	224	LEU
1	C	253	THR
1	C	254	THR
1	C	311	GLN
1	C	351	LEU
1	C	353	THR
1	C	359	ARG
2	L	247	CYS
3	M	14	ARG
3	M	17	THR
3	M	45	ASP
3	M	53	LEU
3	M	175	VAL
3	M	216	PHE
3	M	276	CYS
3	M	277	VAL
3	M	287	THR
4	H	1	MET
4	H	8	THR
4	H	33	ARG
4	H	97	GLU
4	H	141	CYS
4	H	145	VAL
4	H	169	ARG
4	H	213	VAL
6	B	28	ILE
8	E	14	GLU
7	I	21	MET
8	P	50	ASP
5	Q	36	ASP
5	U	12	ARG
5	U	36	ASP
7	W	16	LEU
6	Z	11	SER
6	Z	27	LEU
6	Z	51	GLU
5	7	3	ARG
8	0	10	VAL
8	0	17	GLU
8	0	30	ILE
9	a	43	ASN
9	a	70	ASP

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Mol	Chain	Res	Type
9	a	84	ASN
9	a	93	GLU
9	a	125	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	96	GLN
2	L	213	ASN
4	H	138	GLN
4	H	231	ASN
8	0	24	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 133 ligands modelled in this entry, 2 are monoatomic - leaving 131 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	$\#\|Z\| > 2$
14	PGV	P	102	-	46,46,50	0.95	2 (4%)	49,52,56	1.12	4 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	PGV	I	101	-	49,49,50	0.93	2 (4%)	52,55,56	1.00	2 (3%)
14	PGV	Z	104	-	42,42,50	1.01	2 (4%)	45,47,56	1.09	3 (6%)
14	PGV	F	101	-	35,35,50	1.08	2 (5%)	38,40,56	1.09	2 (5%)
14	PGV	8	103	-	42,42,50	0.99	2 (4%)	45,48,56	1.01	3 (6%)
16	BCL	T	102	-	64,74,74	1.72	14 (21%)	78,115,115	2.14	21 (26%)
16	BCL	5	104	-	64,74,74	1.76	14 (21%)	78,115,115	2.18	22 (28%)
23	SF4	a	201	9	0,12,12	-	-	-		
15	LMT	7	101	-	26,26,36	0.53	0	37,37,47	0.97	2 (5%)
18	UQ8	L	306	-	38,38,53	1.41	2 (5%)	46,49,67	1.58	9 (19%)
19	CDL	M	407	-	79,79,99	1.01	4 (5%)	85,91,111	1.05	5 (5%)
19	CDL	O	101	-	72,72,99	1.07	4 (5%)	78,84,111	1.14	6 (7%)
10	HEC	C	401	1	32,50,50	1.59	4 (12%)	24,82,82	1.38	2 (8%)
16	BCL	O	105	-	64,74,74	1.74	14 (21%)	78,115,115	2.19	21 (26%)
14	PGV	6	101	-	45,45,50	0.95	2 (4%)	48,51,56	1.10	3 (6%)
22	CRT	4	101	-	41,43,43	0.72	0	50,54,54	3.50	15 (30%)
16	BCL	7	104	-	64,74,74	1.69	12 (18%)	78,115,115	2.29	24 (30%)
14	PGV	0	103	-	43,43,50	0.98	2 (4%)	46,49,56	0.95	2 (4%)
19	CDL	M	402	-	81,81,99	1.04	4 (4%)	87,93,111	1.01	4 (4%)
14	PGV	T	101	-	42,42,50	0.99	2 (4%)	45,48,56	1.13	4 (8%)
18	UQ8	L	304	-	33,33,53	1.51	2 (6%)	40,43,67	1.59	8 (20%)
19	CDL	M	408	-	45,45,99	1.40	4 (8%)	51,57,111	1.41	6 (11%)
16	BCL	I	104	-	64,74,74	1.76	14 (21%)	78,115,115	2.21	23 (29%)
14	PGV	B	104	-	40,40,50	1.00	2 (5%)	42,45,56	1.14	3 (7%)
15	LMT	5	101	-	36,36,36	0.38	0	47,47,47	0.80	1 (2%)
22	CRT	R	101	-	41,43,43	0.72	0	50,54,54	3.51	18 (36%)
14	PGV	4	103	-	43,43,50	1.00	2 (4%)	46,48,56	1.12	3 (6%)
19	CDL	L	310	-	74,74,99	1.06	4 (5%)	80,86,111	1.11	6 (7%)
22	CRT	N	102	-	41,43,43	0.71	0	50,54,54	3.46	13 (26%)
14	PGV	P	103	-	39,39,50	1.07	2 (5%)	43,44,56	1.18	4 (9%)
14	PGV	2	102	-	45,45,50	0.98	2 (4%)	48,50,56	1.03	2 (4%)
15	LMT	5	102	-	25,25,36	0.46	0	36,36,47	0.70	1 (2%)
19	CDL	S	101	-	50,50,99	1.30	4 (8%)	56,62,111	1.29	6 (10%)
16	BCL	W	102	-	64,74,74	1.76	14 (21%)	78,115,115	2.23	20 (25%)
15	LMT	7	102	-	36,36,36	0.41	0	47,47,47	0.77	1 (2%)
16	BCL	Z	102	-	64,74,74	1.69	13 (20%)	78,115,115	2.20	19 (24%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
16	BCL	Y	401	19	64,74,74	1.71	13 (20%)	78,115,115	2.19	21 (26%)
14	PGV	0	101	-	40,40,50	1.02	2 (5%)	43,46,56	1.05	2 (4%)
16	BCL	X	101	-	64,74,74	1.69	13 (20%)	78,115,115	2.20	20 (25%)
21	MQ8	M	405	-	54,54,54	1.32	2 (3%)	66,69,69	1.58	14 (21%)
14	PGV	R	103	-	40,40,50	1.04	2 (5%)	43,45,56	1.12	3 (6%)
22	CRT	M	406	-	41,43,43	0.71	0	50,54,54	1.85	14 (28%)
14	PGV	1	102	-	40,40,50	1.02	2 (5%)	42,46,56	1.10	3 (7%)
15	LMT	H	305	-	27,27,36	0.43	0	37,38,47	0.67	1 (2%)
15	LMT	O	103	-	30,30,36	0.42	0	41,41,47	0.92	2 (4%)
10	HEC	C	404	1	32,50,50	1.54	4 (12%)	24,82,82	1.41	2 (8%)
14	PGV	G	104	-	41,41,50	1.00	2 (4%)	44,46,56	1.11	3 (6%)
14	PGV	T	104	-	46,46,50	0.94	2 (4%)	48,52,56	0.96	3 (6%)
16	BCL	K	101	-	64,74,74	1.71	14 (21%)	78,115,115	2.29	19 (24%)
14	PGV	H	302	-	35,35,50	1.08	2 (5%)	38,41,56	1.15	3 (7%)
14	PGV	6	103	-	42,43,50	0.98	2 (4%)	45,49,56	1.06	3 (6%)
14	PGV	C	408	-	31,31,50	1.15	2 (6%)	34,37,56	1.23	3 (8%)
16	BCL	N	103	-	64,74,74	1.71	14 (21%)	78,115,115	2.13	16 (20%)
14	PGV	O	102	-	50,50,50	0.92	2 (4%)	53,56,56	1.07	3 (5%)
18	UQ8	L	307	-	17,17,53	2.27	3 (17%)	19,23,67	2.04	6 (31%)
16	BCL	E	101	-	64,74,74	1.69	14 (21%)	78,115,115	2.20	19 (24%)
13	PLM	C	407	-	11,11,17	0.40	0	10,10,17	0.47	0
16	BCL	0	102	-	64,74,74	1.73	14 (21%)	78,115,115	2.18	18 (23%)
15	LMT	L	301	-	26,26,36	0.45	0	37,37,47	0.85	1 (2%)
14	PGV	V	103	-	42,42,50	1.00	2 (4%)	44,48,56	1.12	3 (6%)
16	BCL	R	102	-	64,74,74	1.68	14 (21%)	78,115,115	2.25	18 (23%)
16	BCL	8	102	-	64,74,74	1.68	14 (21%)	78,115,115	2.27	21 (26%)
16	BCL	I	103	-	64,74,74	1.72	14 (21%)	78,115,115	2.23	24 (30%)
14	PGV	6	104	-	42,42,50	1.00	2 (4%)	45,48,56	1.02	3 (6%)
10	HEC	C	403	1	32,50,50	1.57	4 (12%)	24,82,82	1.57	3 (12%)
22	CRT	B	101	-	41,43,43	0.74	0	50,54,54	3.42	13 (26%)
16	BCL	1	103	-	64,74,74	1.74	14 (21%)	78,115,115	2.25	24 (30%)
22	CRT	8	101	-	41,43,43	0.75	0	50,54,54	3.57	16 (32%)
14	PGV	E	102	-	37,37,50	1.06	2 (5%)	39,43,56	1.11	3 (7%)
16	BCL	5	103	-	64,74,74	1.69	14 (21%)	78,115,115	2.24	24 (30%)
15	LMT	I	102	-	26,26,36	0.49	0	37,37,47	1.08	3 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
16	BCL	M	403	-	64,74,74	1.71	13 (20%)	78,115,115	2.38	22 (28%)
14	PGV	3	101	-	29,29,50	1.19	2 (6%)	32,34,56	1.25	4 (12%)
16	BCL	G	103	-	64,74,74	1.70	13 (20%)	78,115,115	2.22	20 (25%)
14	PGV	2	103	-	36,36,50	1.08	2 (5%)	39,41,56	1.09	2 (5%)
16	BCL	Q	102	-	64,74,74	1.69	14 (21%)	78,115,115	2.32	20 (25%)
16	BCL	D	101	-	64,74,74	1.72	14 (21%)	78,115,115	2.31	23 (29%)
14	PGV	1	101	-	44,44,50	0.99	2 (4%)	47,50,56	1.04	3 (6%)
16	BCL	6	102	-	64,74,74	1.69	14 (21%)	78,115,115	2.17	20 (25%)
17	BPH	M	404	-	51,70,70	0.47	0	52,101,101	0.68	1 (1%)
16	BCL	S	103	-	64,74,74	1.76	14 (21%)	78,115,115	2.22	22 (28%)
22	CRT	G	102	-	41,43,43	0.76	0	50,54,54	3.51	16 (32%)
14	PGV	X	102	-	44,44,50	0.98	2 (4%)	47,50,56	1.09	3 (6%)
12	Z41	C	406	1	30,30,39	0.28	0	32,32,41	0.47	0
16	BCL	S	102	-	64,74,74	1.71	14 (21%)	78,115,115	2.26	25 (32%)
16	BCL	3	102	-	64,74,74	1.70	13 (20%)	78,115,115	2.27	21 (26%)
16	BCL	9	101	-	64,74,74	1.72	14 (21%)	78,115,115	2.22	20 (25%)
16	BCL	V	102	-	64,74,74	1.68	14 (21%)	78,115,115	2.18	20 (25%)
14	PGV	L	305	-	42,42,50	0.98	2 (4%)	45,48,56	1.10	3 (6%)
19	CDL	M	409	-	55,55,99	1.24	4 (7%)	61,67,111	1.32	6 (9%)
15	LMT	Q	101	-	33,33,36	0.44	0	44,44,47	1.03	4 (9%)
14	PGV	J	103	-	32,32,50	1.20	2 (6%)	35,37,56	1.30	3 (8%)
16	BCL	L	302	-	64,74,74	1.68	14 (21%)	78,115,115	2.30	21 (26%)
22	CRT	V	101	-	41,43,43	0.73	0	50,54,54	3.57	18 (36%)
22	CRT	Y	403	-	41,43,43	0.72	0	50,54,54	3.53	15 (30%)
16	BCL	9	102	-	64,74,74	1.75	14 (21%)	78,115,115	2.18	22 (28%)
14	PGV	B	103	-	43,43,50	0.97	2 (4%)	46,49,56	1.04	2 (4%)
14	PGV	G	101	-	48,48,50	0.92	2 (4%)	51,54,56	0.94	3 (5%)
14	PGV	N	105	-	36,36,50	1.08	2 (5%)	38,42,56	1.13	3 (7%)
15	LMT	M	411	-	36,36,36	0.38	0	47,47,47	0.88	0
16	BCL	1	104	-	64,74,74	1.75	14 (21%)	78,115,115	2.30	24 (30%)
15	LMT	F	102	-	34,34,36	0.48	0	45,45,47	1.14	2 (4%)
16	BCL	F	103	-	64,74,74	1.69	14 (21%)	78,115,115	2.33	19 (24%)
16	BCL	D	102	-	64,74,74	1.76	14 (21%)	78,115,115	2.19	22 (28%)
16	BCL	L	309	-	64,74,74	1.71	14 (21%)	78,115,115	2.32	23 (29%)
16	BCL	2	101	-	64,74,74	1.69	14 (21%)	78,115,115	2.22	20 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
16	BCL	W	101	-	64,74,74	1.71	14 (21%)	78,115,115	2.25	22 (28%)
14	PGV	N	104	-	46,46,50	0.96	2 (4%)	49,52,56	0.99	3 (6%)
10	HEC	C	402	1	32,50,50	1.55	4 (12%)	24,82,82	1.45	3 (12%)
14	PGV	J	101	-	49,49,50	0.92	2 (4%)	52,55,56	1.02	3 (5%)
19	CDL	H	301	-	63,63,99	1.06	4 (6%)	69,75,111	1.18	5 (7%)
16	BCL	B	102	-	64,74,74	1.71	14 (21%)	78,115,115	2.18	21 (26%)
15	LMT	7	103	-	36,36,36	0.40	0	47,47,47	0.84	1 (2%)
16	BCL	L	308	-	64,74,74	1.69	14 (21%)	78,115,115	2.24	22 (28%)
16	BCL	A	101	-	64,74,74	1.71	14 (21%)	78,115,115	2.20	20 (25%)
14	PGV	V	104	-	43,43,50	0.99	2 (4%)	45,49,56	1.05	3 (6%)
16	BCL	4	102	-	64,74,74	1.69	13 (20%)	78,115,115	2.27	19 (24%)
14	PGV	Z	103	-	43,43,50	0.99	2 (4%)	46,49,56	1.06	3 (6%)
16	BCL	P	101	-	64,74,74	1.69	13 (20%)	78,115,115	2.21	18 (23%)
17	BPH	L	303	-	51,70,70	0.56	1 (1%)	52,101,101	0.76	2 (3%)
16	BCL	U	101	-	64,74,74	1.71	14 (21%)	78,115,115	2.33	19 (24%)
16	BCL	J	102	-	64,74,74	1.72	14 (21%)	78,115,115	2.24	20 (25%)
14	PGV	T	103	-	45,45,50	0.96	2 (4%)	48,51,56	0.99	3 (6%)
16	BCL	Y	402	-	64,74,74	1.71	13 (20%)	78,115,115	2.23	17 (21%)
14	PGV	N	101	-	49,49,50	0.92	2 (4%)	52,55,56	1.01	2 (3%)
19	CDL	M	410	16	49,49,99	1.30	4 (8%)	55,61,111	1.22	5 (9%)
15	LMT	H	304	-	31,31,36	0.42	0	42,42,47	0.82	1 (2%)
14	PGV	H	303	-	41,41,50	1.00	2 (4%)	44,47,56	1.09	3 (6%)
14	PGV	0	104	-	42,42,50	0.99	2 (4%)	44,48,56	1.16	4 (9%)
14	PGV	Z	101	-	45,45,50	0.98	2 (4%)	48,51,56	1.09	4 (8%)
16	BCL	O	104	-	64,74,74	1.72	14 (21%)	78,115,115	2.33	19 (24%)

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
14	PGV	P	102	-	-	23/51/51/55	-
14	PGV	I	101	-	-	16/54/54/55	-
14	PGV	Z	104	-	-	21/46/46/55	-
14	PGV	F	101	-	-	18/39/39/55	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	PGV	8	103	-	-	21/47/47/55	-
16	BCL	T	102	-	-	14/37/137/137	-
16	BCL	5	104	-	-	20/37/137/137	-
23	SF4	a	201	9	-	-	0/6/5/5
15	LMT	7	101	-	-	4/11/51/61	0/2/2/2
18	UQ8	L	306	-	-	3/33/57/75	0/1/1/1
19	CDL	M	407	-	-	37/90/90/110	-
19	CDL	O	101	-	-	31/83/83/110	-
10	HEC	C	401	1	-	5/10/54/54	-
16	BCL	O	105	-	-	17/37/137/137	-
14	PGV	6	101	-	-	16/50/50/55	-
22	CRT	4	101	-	-	4/51/51/51	-
16	BCL	7	104	-	-	19/37/137/137	-
14	PGV	0	103	-	-	15/48/48/55	-
19	CDL	M	402	-	-	39/92/92/110	-
14	PGV	T	101	-	-	14/47/47/55	-
18	UQ8	L	304	-	-	6/27/51/75	0/1/1/1
19	CDL	M	408	-	-	23/55/55/110	-
16	BCL	I	104	-	-	19/37/137/137	-
14	PGV	B	104	-	-	15/44/44/55	-
15	LMT	5	101	-	-	10/21/61/61	0/2/2/2
22	CRT	R	101	-	-	8/51/51/51	-
14	PGV	4	103	-	-	16/47/47/55	-
19	CDL	L	310	-	-	32/85/85/110	-
22	CRT	N	102	-	-	4/51/51/51	-
14	PGV	P	103	-	-	8/41/41/55	-
14	PGV	2	102	-	-	18/49/49/55	-
15	LMT	5	102	-	-	0/10/50/61	0/2/2/2
19	CDL	S	101	-	-	26/61/61/110	-
16	BCL	W	102	-	-	14/37/137/137	-
15	LMT	7	102	-	-	3/21/61/61	0/2/2/2
16	BCL	Z	102	-	-	18/37/137/137	-
16	BCL	Y	401	19	-	15/37/137/137	-
14	PGV	0	101	-	-	20/45/45/55	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
16	BCL	X	101	-	-	14/37/137/137	-
21	MQ8	M	405	-	-	6/47/67/67	0/2/2/2
14	PGV	R	103	-	-	21/42/42/55	-
22	CRT	M	406	-	-	11/51/51/51	-
14	PGV	1	102	-	-	13/45/45/55	-
15	LMT	H	305	-	-	1/12/52/61	0/2/2/2
15	LMT	O	103	-	-	7/15/55/61	0/2/2/2
10	HEC	C	404	1	-	2/10/54/54	-
14	PGV	G	104	-	-	21/45/45/55	-
14	PGV	T	104	-	-	21/51/51/55	-
16	BCL	K	101	-	-	18/37/137/137	-
14	PGV	H	302	-	-	18/40/40/55	-
14	PGV	6	103	-	-	16/47/47/55	-
14	PGV	C	408	-	-	6/36/36/55	-
16	BCL	N	103	-	-	15/37/137/137	-
14	PGV	O	102	-	-	22/55/55/55	-
18	UQ8	L	307	-	-	1/8/32/75	0/1/1/1
16	BCL	E	101	-	-	9/37/137/137	-
13	PLM	C	407	-	-	0/8/9/15	-
16	BCL	0	102	-	-	5/37/137/137	-
15	LMT	L	301	-	-	1/11/51/61	0/2/2/2
14	PGV	V	103	-	-	18/47/47/55	-
16	BCL	R	102	-	-	18/37/137/137	-
16	BCL	8	102	-	-	9/37/137/137	-
16	BCL	I	103	-	-	13/37/137/137	-
14	PGV	6	104	-	-	10/47/47/55	-
10	HEC	C	403	1	-	3/10/54/54	-
22	CRT	B	101	-	-	6/51/51/51	-
16	BCL	1	103	-	-	16/37/137/137	-
22	CRT	8	101	-	-	4/51/51/51	-
14	PGV	E	102	-	-	9/42/42/55	-
16	BCL	5	103	-	-	15/37/137/137	-
15	LMT	I	102	-	-	8/11/51/61	0/2/2/2
16	BCL	M	403	-	-	17/37/137/137	-
14	PGV	3	101	-	-	13/33/33/55	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
16	BCL	G	103	-	-	16/37/137/137	-
14	PGV	2	103	-	-	15/40/40/55	-
16	BCL	Q	102	-	-	13/37/137/137	-
16	BCL	D	101	-	-	15/37/137/137	-
14	PGV	1	101	-	-	14/49/49/55	-
16	BCL	6	102	-	-	7/37/137/137	-
17	BPH	M	404	-	-	13/37/105/105	0/5/6/6
16	BCL	S	103	-	-	14/37/137/137	-
22	CRT	G	102	-	-	1/51/51/51	-
14	PGV	X	102	-	-	12/49/49/55	-
12	Z41	C	406	1	-	4/31/31/41	-
16	BCL	S	102	-	-	17/37/137/137	-
16	BCL	3	102	-	-	15/37/137/137	-
16	BCL	9	101	-	-	11/37/137/137	-
16	BCL	V	102	-	-	21/37/137/137	-
14	PGV	L	305	-	-	18/47/47/55	-
19	CDL	M	409	-	-	29/66/66/110	-
15	LMT	Q	101	-	-	7/18/58/61	0/2/2/2
14	PGV	J	103	-	-	8/34/34/55	-
16	BCL	L	302	-	-	11/37/137/137	-
22	CRT	V	101	-	-	6/51/51/51	-
22	CRT	Y	403	-	-	2/51/51/51	-
16	BCL	9	102	-	-	15/37/137/137	-
14	PGV	B	103	-	-	22/48/48/55	-
14	PGV	G	101	-	-	19/53/53/55	-
14	PGV	N	105	-	-	13/41/41/55	-
15	LMT	M	411	-	-	7/21/61/61	0/2/2/2
16	BCL	1	104	-	-	16/37/137/137	-
15	LMT	F	102	-	-	6/19/59/61	0/2/2/2
16	BCL	F	103	-	-	15/37/137/137	-
16	BCL	D	102	-	-	17/37/137/137	-
16	BCL	L	309	-	-	16/37/137/137	-
16	BCL	2	101	-	-	11/37/137/137	-
16	BCL	W	101	-	-	16/37/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	PGV	N	104	-	-	22/51/51/55	-
10	HEC	C	402	1	-	2/10/54/54	-
14	PGV	J	101	-	-	23/54/54/55	-
19	CDL	H	301	-	-	28/73/73/110	-
16	BCL	B	102	-	-	13/37/137/137	-
15	LMT	7	103	-	-	4/21/61/61	0/2/2/2
16	BCL	L	308	-	-	13/37/137/137	-
16	BCL	A	101	-	-	17/37/137/137	-
14	PGV	V	104	-	-	9/48/48/55	-
16	BCL	4	102	-	-	10/37/137/137	-
14	PGV	Z	103	-	-	23/48/48/55	-
16	BCL	P	101	-	-	13/37/137/137	-
17	BPH	L	303	-	-	8/37/105/105	0/5/6/6
16	BCL	U	101	-	-	14/37/137/137	-
16	BCL	J	102	-	-	13/37/137/137	-
14	PGV	T	103	-	-	19/50/50/55	-
16	BCL	Y	402	-	-	13/37/137/137	-
14	PGV	N	101	-	-	18/54/54/55	-
19	CDL	M	410	16	-	21/60/60/110	-
15	LMT	H	304	-	-	6/16/56/61	0/2/2/2
14	PGV	H	303	-	-	17/46/46/55	-
14	PGV	0	104	-	-	17/47/47/55	-
14	PGV	Z	101	-	-	20/50/50/55	-
16	BCL	O	104	-	-	19/37/137/137	-

All (765) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	M	405	MQ8	C3-C2	7.84	1.49	1.35
18	L	304	UQ8	C6-C1	7.70	1.49	1.35
18	L	307	UQ8	C6-C1	7.68	1.49	1.35
18	L	306	UQ8	C6-C1	7.55	1.49	1.35
16	Y	402	BCL	O2D-CGD	5.21	1.45	1.33
16	L	302	BCL	O2D-CGD	5.19	1.45	1.33
16	1	103	BCL	O2D-CGD	5.16	1.45	1.33
16	W	102	BCL	C3B-C2B	5.16	1.48	1.39
16	W	102	BCL	O2D-CGD	5.16	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	D	102	BCL	O2D-CGD	5.15	1.45	1.33
16	I	104	BCL	C3B-C2B	5.15	1.48	1.39
16	I	104	BCL	O2D-CGD	5.14	1.45	1.33
16	0	102	BCL	C3B-C2B	5.14	1.48	1.39
16	5	103	BCL	O2D-CGD	5.14	1.45	1.33
16	9	101	BCL	O2D-CGD	5.14	1.45	1.33
16	S	103	BCL	O2D-CGD	5.13	1.45	1.33
16	B	102	BCL	O2D-CGD	5.12	1.45	1.33
16	D	101	BCL	O2D-CGD	5.12	1.45	1.33
16	A	101	BCL	O2D-CGD	5.11	1.45	1.33
16	1	104	BCL	O2D-CGD	5.10	1.45	1.33
16	M	403	BCL	O2D-CGD	5.10	1.45	1.33
16	N	103	BCL	C3B-C2B	5.10	1.48	1.39
16	1	104	BCL	C3B-C2B	5.09	1.48	1.39
16	2	101	BCL	O2D-CGD	5.09	1.45	1.33
16	3	102	BCL	O2D-CGD	5.09	1.45	1.33
16	O	105	BCL	O2D-CGD	5.08	1.45	1.33
16	K	101	BCL	O2D-CGD	5.08	1.45	1.33
16	9	102	BCL	O2D-CGD	5.07	1.45	1.33
16	Z	102	BCL	O2D-CGD	5.07	1.45	1.33
16	5	104	BCL	O2D-CGD	5.07	1.45	1.33
16	F	103	BCL	O2D-CGD	5.06	1.45	1.33
16	7	104	BCL	O2D-CGD	5.06	1.45	1.33
16	O	104	BCL	O2D-CGD	5.05	1.45	1.33
16	X	101	BCL	O2D-CGD	5.04	1.45	1.33
16	G	103	BCL	O2D-CGD	5.04	1.45	1.33
16	M	403	BCL	C3B-C2B	5.03	1.48	1.39
16	P	101	BCL	O2D-CGD	5.03	1.45	1.33
16	S	103	BCL	C3B-C2B	5.02	1.48	1.39
16	O	104	BCL	C3B-C2B	5.02	1.48	1.39
16	J	102	BCL	C3B-C2B	5.02	1.48	1.39
16	8	102	BCL	O2D-CGD	5.02	1.45	1.33
16	V	102	BCL	O2D-CGD	5.01	1.45	1.33
16	U	101	BCL	O2D-CGD	5.01	1.45	1.33
16	Q	102	BCL	O2D-CGD	5.01	1.45	1.33
16	4	102	BCL	O2D-CGD	5.01	1.45	1.33
16	I	103	BCL	O2D-CGD	5.01	1.45	1.33
16	S	102	BCL	O2D-CGD	5.01	1.45	1.33
16	W	101	BCL	O2D-CGD	5.00	1.45	1.33
16	L	308	BCL	O2D-CGD	5.00	1.45	1.33
16	0	102	BCL	O2D-CGD	5.00	1.45	1.33
16	J	102	BCL	O2D-CGD	4.99	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	X	101	BCL	C3B-C2B	4.99	1.48	1.39
16	R	102	BCL	O2D-CGD	4.98	1.45	1.33
16	F	103	BCL	C3B-C2B	4.97	1.48	1.39
16	T	102	BCL	O2D-CGD	4.96	1.45	1.33
16	Y	402	BCL	C3B-C2B	4.96	1.48	1.39
16	E	101	BCL	O2D-CGD	4.96	1.45	1.33
16	1	103	BCL	C3B-C2B	4.96	1.48	1.39
16	N	103	BCL	O2D-CGD	4.96	1.45	1.33
16	Y	401	BCL	O2D-CGD	4.95	1.45	1.33
16	S	102	BCL	C3B-C2B	4.95	1.48	1.39
16	T	102	BCL	C3B-C2B	4.95	1.48	1.39
16	D	101	BCL	C3B-C2B	4.94	1.48	1.39
16	9	102	BCL	C3B-C2B	4.93	1.48	1.39
16	5	103	BCL	C3B-C2B	4.92	1.48	1.39
16	6	102	BCL	O2D-CGD	4.91	1.45	1.33
21	M	405	MQ8	C10-C5	4.90	1.48	1.40
16	I	103	BCL	C3B-C2B	4.90	1.48	1.39
16	Q	102	BCL	C3B-C2B	4.90	1.48	1.39
16	W	101	BCL	C3B-C2B	4.90	1.48	1.39
16	E	101	BCL	C3B-C2B	4.89	1.48	1.39
16	9	101	BCL	C3B-C2B	4.88	1.48	1.39
16	B	102	BCL	C3B-C2B	4.87	1.48	1.39
16	4	102	BCL	C3B-C2B	4.86	1.48	1.39
16	Z	102	BCL	C3B-C2B	4.85	1.48	1.39
16	U	101	BCL	C3B-C2B	4.82	1.48	1.39
19	M	408	CDL	OA6-CA5	4.79	1.46	1.35
16	7	104	BCL	C3B-C2B	4.79	1.48	1.39
16	L	302	BCL	C3B-C2B	4.79	1.48	1.39
16	L	309	BCL	C3D-C4D	-4.79	1.33	1.44
16	5	104	BCL	C3B-C2B	4.78	1.48	1.39
16	G	103	BCL	C3B-C2B	4.77	1.48	1.39
16	K	101	BCL	C3B-C2B	4.77	1.48	1.39
16	D	102	BCL	C3B-C2B	4.77	1.48	1.39
16	O	105	BCL	C3B-C2B	4.77	1.48	1.39
16	A	101	BCL	C3B-C2B	4.76	1.48	1.39
16	S	103	BCL	C3D-C4D	-4.75	1.33	1.44
16	L	308	BCL	C3B-C2B	4.75	1.47	1.39
16	R	102	BCL	C3B-C2B	4.74	1.47	1.39
16	3	102	BCL	C3B-C2B	4.74	1.47	1.39
16	L	309	BCL	O2D-CGD	4.74	1.44	1.33
16	Y	401	BCL	C3D-C4D	-4.74	1.33	1.44
16	S	102	BCL	C3D-C4D	-4.72	1.33	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	6	102	BCL	C3B-C2B	4.72	1.47	1.39
16	D	102	BCL	C3D-C4D	-4.72	1.33	1.44
16	1	104	BCL	C3D-C4D	-4.72	1.33	1.44
16	5	104	BCL	C3D-C4D	-4.70	1.33	1.44
16	P	101	BCL	C3B-C2B	4.70	1.47	1.39
16	M	403	BCL	C3D-C4D	-4.70	1.33	1.44
16	9	101	BCL	C3D-C4D	-4.69	1.33	1.44
16	0	102	BCL	C3D-C4D	-4.69	1.33	1.44
16	V	102	BCL	C3B-C2B	4.69	1.47	1.39
16	J	102	BCL	C3D-C4D	-4.68	1.33	1.44
16	L	308	BCL	C3D-C4D	-4.67	1.33	1.44
16	3	102	BCL	C3D-C4D	-4.66	1.33	1.44
16	2	101	BCL	C3B-C2B	4.65	1.47	1.39
16	W	101	BCL	C3D-C4D	-4.65	1.33	1.44
16	B	102	BCL	C3D-C4D	-4.65	1.33	1.44
16	I	104	BCL	C3D-C4D	-4.64	1.33	1.44
16	8	102	BCL	C3B-C2B	4.63	1.47	1.39
16	4	102	BCL	C3D-C4D	-4.63	1.33	1.44
16	Z	102	BCL	C3D-C4D	-4.63	1.33	1.44
16	O	105	BCL	C3D-C4D	-4.63	1.33	1.44
16	7	104	BCL	C3D-C4D	-4.62	1.33	1.44
16	9	102	BCL	C3D-C4D	-4.62	1.33	1.44
16	W	102	BCL	C3D-C4D	-4.62	1.33	1.44
16	V	102	BCL	C3D-C4D	-4.62	1.33	1.44
16	1	103	BCL	C3D-C4D	-4.61	1.33	1.44
16	F	103	BCL	C3D-C4D	-4.61	1.33	1.44
16	D	101	BCL	C3D-C4D	-4.61	1.33	1.44
16	O	104	BCL	C3D-C4D	-4.61	1.33	1.44
16	Y	401	BCL	C3B-C2B	4.60	1.47	1.39
16	2	101	BCL	C3D-C4D	-4.60	1.33	1.44
16	6	102	BCL	C3D-C4D	-4.60	1.33	1.44
16	Q	102	BCL	C3D-C4D	-4.59	1.33	1.44
16	K	101	BCL	C3D-C4D	-4.59	1.33	1.44
16	X	101	BCL	C3D-C4D	-4.59	1.33	1.44
16	T	102	BCL	C3D-C4D	-4.59	1.33	1.44
16	P	101	BCL	C3D-C4D	-4.58	1.33	1.44
16	U	101	BCL	C3D-C4D	-4.58	1.33	1.44
16	L	302	BCL	C3D-C4D	-4.57	1.33	1.44
16	N	103	BCL	C3D-C4D	-4.56	1.33	1.44
16	E	101	BCL	C3D-C4D	-4.56	1.33	1.44
16	8	102	BCL	C3D-C4D	-4.56	1.33	1.44
16	R	102	BCL	C3D-C4D	-4.55	1.33	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	G	103	BCL	C3D-C4D	-4.54	1.33	1.44
16	I	103	BCL	C3D-C4D	-4.52	1.34	1.44
16	5	103	BCL	C3D-C4D	-4.52	1.34	1.44
16	A	101	BCL	C3D-C4D	-4.51	1.34	1.44
16	Y	402	BCL	C3D-C4D	-4.50	1.34	1.44
16	7	104	BCL	O2A-CGA	4.45	1.46	1.33
16	L	309	BCL	C3B-C2B	4.44	1.47	1.39
16	A	101	BCL	O2A-CGA	4.41	1.46	1.33
19	S	101	CDL	OA6-CA5	4.39	1.46	1.34
19	M	402	CDL	OB6-CB5	4.38	1.46	1.34
14	3	101	PGV	O03-C19	4.37	1.46	1.33
16	9	102	BCL	O2A-CGA	4.36	1.46	1.33
10	C	402	HEC	CBC-CAC	-4.35	1.33	1.49
10	C	401	HEC	CBC-CAC	-4.35	1.33	1.49
16	2	101	BCL	O2A-CGA	4.35	1.46	1.33
14	J	103	PGV	O03-C19	4.34	1.46	1.33
14	N	104	PGV	O03-C19	4.33	1.46	1.33
16	N	103	BCL	O2A-CGA	4.33	1.46	1.33
14	1	101	PGV	O03-C19	4.33	1.46	1.33
10	C	403	HEC	CBC-CAC	-4.32	1.33	1.49
16	W	101	BCL	O2A-CGA	4.32	1.46	1.33
14	Z	101	PGV	O03-C19	4.32	1.46	1.33
14	C	408	PGV	O03-C19	4.31	1.45	1.33
16	D	102	BCL	O2A-CGA	4.31	1.45	1.33
10	C	404	HEC	CBC-CAC	-4.30	1.33	1.49
14	2	102	PGV	O01-C1	4.30	1.46	1.34
19	S	101	CDL	OA8-CA7	4.30	1.45	1.33
19	M	408	CDL	OB8-CB7	4.30	1.45	1.33
19	M	402	CDL	OB8-CB7	4.29	1.45	1.33
10	C	404	HEC	CBB-CAB	-4.29	1.33	1.49
16	T	102	BCL	O2A-CGA	4.29	1.45	1.33
16	Y	401	BCL	O2A-CGA	4.28	1.45	1.33
16	B	102	BCL	O2A-CGA	4.28	1.45	1.33
10	C	401	HEC	CBB-CAB	-4.28	1.33	1.49
19	M	402	CDL	OA6-CA5	4.28	1.46	1.34
14	Z	103	PGV	O03-C19	4.28	1.45	1.33
19	M	409	CDL	OB8-CB7	4.28	1.45	1.33
16	5	104	BCL	CHD-C1D	4.27	1.46	1.38
19	M	409	CDL	OB6-CB5	4.27	1.46	1.34
10	C	402	HEC	CBB-CAB	-4.27	1.33	1.49
10	C	401	HEC	C2B-C3B	-4.27	1.36	1.40
16	E	101	BCL	O2A-CGA	4.27	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	O	105	BCL	O2A-CGA	4.27	1.45	1.33
16	Z	102	BCL	O2A-CGA	4.27	1.45	1.33
19	S	101	CDL	OB8-CB7	4.27	1.45	1.33
10	C	403	HEC	C2B-C3B	-4.27	1.36	1.40
19	L	310	CDL	OA6-CA5	4.27	1.46	1.34
16	0	102	BCL	O2A-CGA	4.26	1.45	1.33
14	P	102	PGV	O03-C19	4.26	1.45	1.33
10	C	403	HEC	CBB-CAB	-4.26	1.33	1.49
16	Q	102	BCL	O2A-CGA	4.25	1.45	1.33
14	4	103	PGV	O03-C19	4.25	1.45	1.33
16	X	101	BCL	O2A-CGA	4.25	1.45	1.33
19	M	410	CDL	OB8-CB7	4.25	1.45	1.33
14	P	103	PGV	O03-C19	4.25	1.45	1.33
14	H	303	PGV	O03-C19	4.25	1.45	1.33
19	M	409	CDL	OA8-CA7	4.24	1.45	1.33
14	I	101	PGV	O03-C19	4.24	1.45	1.33
19	M	402	CDL	OA8-CA7	4.24	1.45	1.33
14	0	104	PGV	O03-C19	4.24	1.45	1.33
19	O	101	CDL	OA8-CA7	4.24	1.45	1.33
14	O	102	PGV	O03-C19	4.24	1.45	1.33
14	E	102	PGV	O03-C19	4.23	1.45	1.33
14	2	102	PGV	O03-C19	4.23	1.45	1.33
14	J	103	PGV	O01-C1	4.23	1.46	1.34
16	9	101	BCL	O2A-CGA	4.23	1.45	1.33
14	6	104	PGV	O03-C19	4.23	1.45	1.33
14	0	101	PGV	O03-C19	4.23	1.45	1.33
19	H	301	CDL	OB8-CB7	4.23	1.45	1.33
16	M	403	BCL	O2A-CGA	4.22	1.45	1.33
14	Z	104	PGV	O03-C19	4.22	1.45	1.33
19	O	101	CDL	OB8-CB7	4.22	1.45	1.33
16	5	104	BCL	O2A-CGA	4.22	1.45	1.33
16	F	103	BCL	O2A-CGA	4.21	1.45	1.33
19	L	310	CDL	OB6-CB5	4.21	1.46	1.34
19	M	410	CDL	OA8-CA7	4.21	1.45	1.33
14	2	103	PGV	O03-C19	4.21	1.45	1.33
16	I	103	BCL	O2A-CGA	4.21	1.45	1.33
14	N	105	PGV	O01-C1	4.21	1.46	1.34
16	I	104	BCL	O2A-CGA	4.21	1.45	1.33
16	G	103	BCL	O2A-CGA	4.21	1.45	1.33
16	J	102	BCL	O2A-CGA	4.21	1.45	1.33
16	S	102	BCL	O2A-CGA	4.21	1.45	1.33
16	4	102	BCL	O2A-CGA	4.21	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	M	407	CDL	OB8-CB7	4.20	1.45	1.33
16	D	102	BCL	CHD-C1D	4.20	1.46	1.38
19	M	407	CDL	OA8-CA7	4.20	1.45	1.33
16	V	102	BCL	O2A-CGA	4.19	1.45	1.33
19	M	410	CDL	OA6-CA5	4.19	1.46	1.34
19	L	310	CDL	OA8-CA7	4.19	1.45	1.33
14	X	102	PGV	O01-C1	4.19	1.46	1.34
16	L	308	BCL	O2A-CGA	4.19	1.45	1.33
16	L	309	BCL	O2A-CGA	4.18	1.45	1.33
16	K	101	BCL	O2A-CGA	4.18	1.45	1.33
16	9	102	BCL	CHD-C1D	4.18	1.46	1.38
14	T	104	PGV	O03-C19	4.18	1.45	1.33
16	3	102	BCL	O2A-CGA	4.18	1.45	1.33
16	W	102	BCL	O2A-CGA	4.18	1.45	1.33
14	V	104	PGV	O01-C1	4.18	1.46	1.34
14	L	305	PGV	O03-C19	4.18	1.45	1.33
14	N	105	PGV	O03-C19	4.18	1.45	1.33
16	Y	402	BCL	O2A-CGA	4.18	1.45	1.33
16	6	102	BCL	O2A-CGA	4.18	1.45	1.33
14	T	103	PGV	O03-C19	4.17	1.45	1.33
16	Y	401	BCL	CHD-C1D	4.17	1.46	1.38
14	4	103	PGV	O01-C1	4.17	1.46	1.34
14	1	102	PGV	O03-C19	4.16	1.45	1.33
14	J	101	PGV	O03-C19	4.16	1.45	1.33
14	8	103	PGV	O03-C19	4.16	1.45	1.33
16	D	101	BCL	O2A-CGA	4.16	1.45	1.33
14	Z	101	PGV	O01-C1	4.16	1.46	1.34
14	N	101	PGV	O03-C19	4.16	1.45	1.33
16	S	103	BCL	O2A-CGA	4.16	1.45	1.33
14	0	103	PGV	O03-C19	4.16	1.45	1.33
16	L	302	BCL	O2A-CGA	4.16	1.45	1.33
14	P	103	PGV	O01-C1	4.15	1.46	1.34
14	B	104	PGV	O03-C19	4.15	1.45	1.33
14	B	103	PGV	O03-C19	4.15	1.45	1.33
16	O	104	BCL	O2A-CGA	4.15	1.45	1.33
14	V	103	PGV	O03-C19	4.15	1.45	1.33
16	O	105	BCL	CHD-C1D	4.15	1.46	1.38
16	8	102	BCL	O2A-CGA	4.15	1.45	1.33
19	M	408	CDL	OA8-CA7	4.15	1.45	1.33
14	T	101	PGV	O03-C19	4.15	1.45	1.33
16	P	101	BCL	O2A-CGA	4.14	1.45	1.33
16	1	104	BCL	O2A-CGA	4.14	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	V	104	PGV	O03-C19	4.14	1.45	1.33
16	U	101	BCL	O2A-CGA	4.14	1.45	1.33
16	R	102	BCL	O2A-CGA	4.13	1.45	1.33
14	1	101	PGV	O01-C1	4.13	1.45	1.34
14	6	103	PGV	O03-C19	4.13	1.45	1.33
19	O	101	CDL	OA6-CA5	4.13	1.45	1.34
14	J	101	PGV	O01-C1	4.13	1.45	1.34
14	O	102	PGV	O01-C1	4.12	1.45	1.34
14	G	101	PGV	O03-C19	4.12	1.45	1.33
14	I	101	PGV	O01-C1	4.12	1.45	1.34
14	G	104	PGV	O03-C19	4.12	1.45	1.33
14	T	101	PGV	O01-C1	4.11	1.45	1.34
19	H	301	CDL	OA6-CA5	4.11	1.45	1.34
14	6	104	PGV	O01-C1	4.11	1.45	1.34
14	6	101	PGV	O03-C19	4.11	1.45	1.33
14	H	302	PGV	O01-C1	4.11	1.45	1.34
14	Z	104	PGV	O01-C1	4.11	1.45	1.34
19	O	101	CDL	OB6-CB5	4.11	1.45	1.34
19	M	409	CDL	OA6-CA5	4.10	1.45	1.34
14	V	103	PGV	O01-C1	4.10	1.45	1.34
14	F	101	PGV	O03-C19	4.10	1.45	1.33
16	S	103	BCL	CHD-C1D	4.10	1.46	1.38
14	X	102	PGV	O03-C19	4.10	1.45	1.33
14	G	104	PGV	O01-C1	4.09	1.45	1.34
14	H	302	PGV	O03-C19	4.09	1.45	1.33
14	Z	103	PGV	O01-C1	4.09	1.45	1.34
14	T	103	PGV	O01-C1	4.09	1.45	1.34
14	8	103	PGV	O01-C1	4.09	1.45	1.34
19	L	310	CDL	OB8-CB7	4.08	1.45	1.33
19	M	408	CDL	OB6-CB5	4.08	1.45	1.34
14	R	103	PGV	O03-C19	4.08	1.45	1.33
14	N	101	PGV	O01-C1	4.08	1.45	1.34
14	0	101	PGV	O01-C1	4.07	1.45	1.34
14	B	103	PGV	O01-C1	4.07	1.45	1.34
14	N	104	PGV	O01-C1	4.07	1.45	1.34
19	M	410	CDL	OB6-CB5	4.07	1.45	1.34
16	5	103	BCL	O2A-CGA	4.07	1.45	1.33
14	F	101	PGV	O01-C1	4.06	1.45	1.34
14	R	103	PGV	O01-C1	4.06	1.45	1.34
14	0	104	PGV	O01-C1	4.05	1.45	1.34
14	0	103	PGV	O01-C1	4.05	1.45	1.34
14	1	102	PGV	O01-C1	4.05	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	6	101	PGV	O01-C1	4.05	1.45	1.34
14	P	102	PGV	O01-C1	4.04	1.45	1.34
14	6	103	PGV	O01-C1	4.04	1.45	1.34
14	B	104	PGV	O01-C1	4.04	1.45	1.34
16	1	103	BCL	O2A-CGA	4.03	1.45	1.33
16	1	104	BCL	CHD-C1D	4.03	1.46	1.38
14	3	101	PGV	O01-C1	4.03	1.45	1.34
16	I	104	BCL	CHD-C1D	4.03	1.46	1.38
14	E	102	PGV	O01-C1	4.02	1.45	1.34
14	2	103	PGV	O01-C1	4.02	1.45	1.34
19	H	301	CDL	OB6-CB5	4.02	1.45	1.34
14	H	303	PGV	O01-C1	4.01	1.45	1.34
19	M	407	CDL	OB6-CB5	4.01	1.45	1.34
16	W	102	BCL	CHD-C1D	4.01	1.46	1.38
19	M	407	CDL	OA6-CA5	3.99	1.45	1.34
14	C	408	PGV	O01-C1	3.99	1.45	1.34
19	S	101	CDL	OB6-CB5	3.99	1.45	1.34
14	L	305	PGV	O01-C1	3.99	1.45	1.34
14	G	101	PGV	O01-C1	3.98	1.45	1.34
16	1	103	BCL	CHD-C1D	3.98	1.46	1.38
10	C	402	HEC	C2B-C3B	-3.96	1.36	1.40
14	T	104	PGV	O01-C1	3.94	1.45	1.34
16	K	101	BCL	CHD-C1D	3.93	1.46	1.38
16	I	103	BCL	CHD-C1D	3.85	1.45	1.38
16	W	101	BCL	CHD-C1D	3.85	1.45	1.38
16	9	101	BCL	CHD-C1D	3.84	1.45	1.38
16	A	101	BCL	CHD-C1D	3.83	1.45	1.38
16	3	102	BCL	CHD-C1D	3.79	1.45	1.38
10	C	404	HEC	C2B-C3B	-3.78	1.36	1.40
16	S	102	BCL	CHD-C1D	3.75	1.45	1.38
16	Y	402	BCL	CHD-C1D	3.74	1.45	1.38
18	L	307	UQ8	C4-C3	3.73	1.51	1.36
16	U	101	BCL	CHD-C1D	3.72	1.45	1.38
16	L	308	BCL	CHD-C1D	3.68	1.45	1.38
16	D	101	BCL	CHD-C1D	3.67	1.45	1.38
16	G	103	BCL	OBD-CAD	3.67	1.28	1.22
16	L	309	BCL	CHD-C1D	3.66	1.45	1.38
16	4	102	BCL	OBD-CAD	3.66	1.28	1.22
16	6	102	BCL	OBD-CAD	3.65	1.28	1.22
16	I	104	BCL	OBD-CAD	3.65	1.28	1.22
16	W	102	BCL	OBD-CAD	3.65	1.28	1.22
16	7	104	BCL	CHD-C1D	3.64	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	X	101	BCL	OBD-CAD	3.63	1.28	1.22
16	J	102	BCL	OBD-CAD	3.62	1.28	1.22
16	N	103	BCL	OBD-CAD	3.62	1.28	1.22
16	E	101	BCL	OBD-CAD	3.62	1.28	1.22
16	I	103	BCL	OBD-CAD	3.61	1.28	1.22
16	B	102	BCL	OBD-CAD	3.61	1.28	1.22
16	L	308	BCL	OBD-CAD	3.61	1.28	1.22
16	O	105	BCL	OBD-CAD	3.61	1.28	1.22
16	5	103	BCL	CHD-C1D	3.60	1.45	1.38
16	T	102	BCL	OBD-CAD	3.60	1.28	1.22
16	5	104	BCL	OBD-CAD	3.60	1.28	1.22
16	6	102	BCL	CHD-C1D	3.59	1.45	1.38
16	G	103	BCL	CHD-C1D	3.59	1.45	1.38
16	N	103	BCL	CHD-C1D	3.58	1.45	1.38
16	S	103	BCL	OBD-CAD	3.58	1.28	1.22
16	U	101	BCL	OBD-CAD	3.58	1.28	1.22
16	P	101	BCL	OBD-CAD	3.58	1.28	1.22
16	S	102	BCL	OBD-CAD	3.57	1.28	1.22
16	9	102	BCL	OBD-CAD	3.57	1.28	1.22
16	L	302	BCL	CHD-C1D	3.57	1.45	1.38
16	0	102	BCL	OBD-CAD	3.56	1.28	1.22
16	D	102	BCL	OBD-CAD	3.56	1.28	1.22
16	3	102	BCL	OBD-CAD	3.56	1.28	1.22
16	8	102	BCL	OBD-CAD	3.56	1.28	1.22
16	V	102	BCL	OBD-CAD	3.56	1.28	1.22
16	R	102	BCL	OBD-CAD	3.56	1.28	1.22
16	M	403	BCL	CHD-C1D	3.56	1.45	1.38
16	1	104	BCL	OBD-CAD	3.55	1.28	1.22
16	2	101	BCL	OBD-CAD	3.54	1.28	1.22
16	O	104	BCL	CHD-C1D	3.54	1.45	1.38
16	1	103	BCL	OBD-CAD	3.54	1.28	1.22
16	L	302	BCL	OBD-CAD	3.54	1.28	1.22
16	Y	402	BCL	OBD-CAD	3.54	1.28	1.22
16	A	101	BCL	OBD-CAD	3.53	1.28	1.22
16	O	104	BCL	OBD-CAD	3.53	1.28	1.22
16	D	101	BCL	OBD-CAD	3.52	1.28	1.22
16	J	102	BCL	CHD-C1D	3.52	1.45	1.38
16	F	103	BCL	OBD-CAD	3.51	1.28	1.22
16	K	101	BCL	OBD-CAD	3.51	1.28	1.22
16	Z	102	BCL	OBD-CAD	3.51	1.28	1.22
16	Q	102	BCL	CHD-C1D	3.50	1.45	1.38
16	9	101	BCL	OBD-CAD	3.50	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	0	102	BCL	CHD-C1D	3.50	1.45	1.38
16	Q	102	BCL	OBD-CAD	3.49	1.28	1.22
16	7	104	BCL	OBD-CAD	3.49	1.28	1.22
16	F	103	BCL	CHD-C1D	3.49	1.45	1.38
16	4	102	BCL	CHD-C1D	3.48	1.45	1.38
16	L	309	BCL	OBD-CAD	3.47	1.28	1.22
16	M	403	BCL	OBD-CAD	3.47	1.28	1.22
16	T	102	BCL	CHD-C1D	3.47	1.45	1.38
16	5	103	BCL	OBD-CAD	3.46	1.28	1.22
16	R	102	BCL	CHD-C1D	3.45	1.45	1.38
16	2	101	BCL	CHD-C1D	3.45	1.45	1.38
16	P	101	BCL	CHD-C1D	3.43	1.45	1.38
16	B	102	BCL	CHD-C1D	3.41	1.45	1.38
16	Z	102	BCL	CHD-C1D	3.39	1.45	1.38
16	V	102	BCL	CHD-C1D	3.38	1.44	1.38
16	E	101	BCL	CHD-C1D	3.36	1.44	1.38
16	X	101	BCL	CHD-C1D	3.33	1.44	1.38
16	T	102	BCL	C1D-ND	-3.32	1.33	1.37
16	8	102	BCL	CHD-C1D	3.32	1.44	1.38
16	W	101	BCL	OBD-CAD	3.31	1.28	1.22
16	Y	401	BCL	OBD-CAD	3.26	1.28	1.22
18	L	306	UQ8	C4-C3	3.16	1.49	1.36
16	0	102	BCL	C1D-ND	-3.11	1.34	1.37
16	A	101	BCL	C3D-C2D	3.11	1.47	1.39
16	5	104	BCL	C3D-C2D	3.09	1.47	1.39
16	I	103	BCL	C3D-C2D	3.08	1.47	1.39
16	1	103	BCL	C3D-C2D	3.06	1.47	1.39
16	9	102	BCL	C3D-C2D	3.05	1.47	1.39
16	D	102	BCL	C3D-C2D	3.05	1.47	1.39
16	Y	402	BCL	C3D-C2D	3.05	1.47	1.39
16	N	103	BCL	C3D-C2D	3.05	1.47	1.39
16	I	104	BCL	C3D-C2D	3.04	1.47	1.39
16	V	102	BCL	C1D-ND	-3.04	1.34	1.37
16	4	102	BCL	C3D-C2D	3.03	1.47	1.39
16	P	101	BCL	C1D-ND	-3.03	1.34	1.37
16	X	101	BCL	C1D-ND	-3.03	1.34	1.37
16	O	105	BCL	CHD-C4C	3.02	1.47	1.39
16	D	101	BCL	C3D-C2D	3.02	1.47	1.39
16	B	102	BCL	C3D-C2D	3.02	1.47	1.39
16	Y	401	BCL	C1D-C2D	3.01	1.51	1.45
16	O	105	BCL	C3D-C2D	3.01	1.47	1.39
16	9	101	BCL	C3D-C2D	3.00	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	T	102	BCL	C3D-C2D	3.00	1.47	1.39
16	P	101	BCL	C3D-C2D	3.00	1.47	1.39
16	6	102	BCL	C3D-C2D	3.00	1.47	1.39
16	G	103	BCL	C3D-C2D	3.00	1.47	1.39
16	0	102	BCL	C3D-C2D	3.00	1.47	1.39
16	W	102	BCL	C3D-C2D	3.00	1.47	1.39
16	E	101	BCL	C3D-C2D	2.99	1.47	1.39
16	V	102	BCL	C3D-C2D	2.99	1.47	1.39
16	Y	401	BCL	CHD-C4C	2.99	1.47	1.39
16	N	103	BCL	C1D-ND	-2.99	1.34	1.37
16	O	104	BCL	C3D-C2D	2.98	1.47	1.39
16	3	102	BCL	C3D-C2D	2.98	1.47	1.39
16	L	308	BCL	C3D-C2D	2.98	1.47	1.39
16	Q	102	BCL	C3D-C2D	2.97	1.47	1.39
16	R	102	BCL	C1D-ND	-2.97	1.34	1.37
16	E	101	BCL	C1D-ND	-2.96	1.34	1.37
16	K	101	BCL	C3D-C2D	2.95	1.47	1.39
16	J	102	BCL	C1D-ND	-2.95	1.34	1.37
16	8	102	BCL	C1D-ND	-2.95	1.34	1.37
16	S	103	BCL	C3D-C2D	2.95	1.47	1.39
16	D	102	BCL	CHD-C4C	2.95	1.47	1.39
16	8	102	BCL	C3D-C2D	2.95	1.47	1.39
16	5	104	BCL	CHD-C4C	2.95	1.47	1.39
16	W	101	BCL	C3D-C2D	2.94	1.47	1.39
16	1	104	BCL	C3D-C2D	2.94	1.47	1.39
16	2	101	BCL	C3D-C2D	2.94	1.47	1.39
16	5	103	BCL	C3D-C2D	2.94	1.47	1.39
18	L	304	UQ8	C4-C3	2.93	1.48	1.36
16	S	102	BCL	C3D-C2D	2.93	1.47	1.39
16	W	102	BCL	C1D-C2D	2.93	1.51	1.45
16	J	102	BCL	C3D-C2D	2.93	1.47	1.39
16	S	103	BCL	CHD-C4C	2.92	1.47	1.39
16	R	102	BCL	C3D-C2D	2.92	1.47	1.39
16	9	102	BCL	CHD-C4C	2.92	1.47	1.39
16	W	102	BCL	CHD-C4C	2.92	1.47	1.39
16	U	101	BCL	C3D-C2D	2.92	1.47	1.39
16	Z	102	BCL	C3D-C2D	2.91	1.47	1.39
16	O	105	BCL	C1D-C2D	2.91	1.51	1.45
16	F	103	BCL	C3D-C2D	2.90	1.47	1.39
16	W	101	BCL	CHD-C4C	2.90	1.47	1.39
16	K	101	BCL	C1D-C2D	2.89	1.51	1.45
16	Y	401	BCL	C3D-C2D	2.89	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	1	103	BCL	CHD-C4C	2.89	1.47	1.39
16	X	101	BCL	C3D-C2D	2.89	1.47	1.39
16	1	104	BCL	CHD-C4C	2.89	1.47	1.39
16	6	102	BCL	C1D-ND	-2.89	1.34	1.37
16	L	309	BCL	C1D-ND	-2.89	1.34	1.37
16	A	101	BCL	CHD-C4C	2.88	1.47	1.39
16	7	104	BCL	C3D-C2D	2.88	1.47	1.39
10	C	401	HEC	C4B-C3B	2.87	1.48	1.43
16	K	101	BCL	CHD-C4C	2.87	1.47	1.39
16	L	309	BCL	C3D-C2D	2.87	1.47	1.39
16	W	101	BCL	C1D-C2D	2.87	1.51	1.45
16	I	104	BCL	CHD-C4C	2.86	1.47	1.39
16	1	104	BCL	C1D-C2D	2.85	1.51	1.45
16	U	101	BCL	CHD-C4C	2.85	1.47	1.39
16	U	101	BCL	C1D-C2D	2.85	1.50	1.45
16	1	103	BCL	C1D-C2D	2.84	1.50	1.45
16	I	103	BCL	CHD-C4C	2.84	1.47	1.39
16	5	104	BCL	C1D-C2D	2.84	1.50	1.45
16	G	103	BCL	C1D-ND	-2.84	1.34	1.37
10	C	404	HEC	C4B-C3B	2.84	1.48	1.43
16	L	309	BCL	CHD-C4C	2.84	1.47	1.39
16	B	102	BCL	C1D-ND	-2.84	1.34	1.37
16	Y	402	BCL	CHD-C4C	2.83	1.47	1.39
16	2	101	BCL	C1D-ND	-2.83	1.34	1.37
16	9	101	BCL	CHD-C4C	2.83	1.47	1.39
16	D	102	BCL	MG-NC	-2.82	1.99	2.06
16	M	403	BCL	C3D-C2D	2.82	1.46	1.39
10	C	402	HEC	C4B-C3B	2.82	1.48	1.43
16	L	302	BCL	C3D-C2D	2.81	1.46	1.39
16	S	102	BCL	CHD-C4C	2.81	1.47	1.39
16	4	102	BCL	C1D-ND	-2.81	1.34	1.37
16	S	103	BCL	C1D-C2D	2.81	1.50	1.45
16	5	103	BCL	CHD-C4C	2.81	1.47	1.39
16	W	102	BCL	MG-NC	-2.81	1.99	2.06
16	O	105	BCL	MG-NC	-2.81	1.99	2.06
16	3	102	BCL	CHD-C4C	2.80	1.47	1.39
16	D	102	BCL	C1D-C2D	2.79	1.50	1.45
16	F	103	BCL	C1D-ND	-2.79	1.34	1.37
16	3	102	BCL	C1D-C2D	2.79	1.50	1.45
16	Z	102	BCL	C1D-ND	-2.78	1.34	1.37
16	1	104	BCL	MG-NC	-2.78	1.99	2.06
16	O	104	BCL	CHD-C4C	2.76	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	7	104	BCL	CHD-C4C	2.75	1.47	1.39
16	I	103	BCL	C1D-ND	-2.75	1.34	1.37
16	5	104	BCL	MG-NC	-2.74	1.99	2.06
16	5	103	BCL	C1D-C2D	2.74	1.50	1.45
16	F	103	BCL	CHD-C4C	2.74	1.46	1.39
16	I	104	BCL	C1D-C2D	2.73	1.50	1.45
16	S	102	BCL	C1D-C2D	2.73	1.50	1.45
16	9	102	BCL	MG-NC	-2.73	1.99	2.06
16	L	309	BCL	MG-NA	-2.72	1.99	2.06
16	O	104	BCL	C1D-ND	-2.72	1.34	1.37
16	L	308	BCL	CHD-C4C	2.71	1.46	1.39
16	S	103	BCL	MG-NC	-2.71	1.99	2.06
16	M	403	BCL	C1D-C2D	2.71	1.50	1.45
16	A	101	BCL	C1D-C2D	2.70	1.50	1.45
16	I	103	BCL	C1D-C2D	2.70	1.50	1.45
16	9	102	BCL	C1D-C2D	2.70	1.50	1.45
16	D	101	BCL	CHD-C4C	2.70	1.46	1.39
16	Y	402	BCL	C1D-C2D	2.69	1.50	1.45
16	3	102	BCL	C1D-ND	-2.69	1.34	1.37
16	L	309	BCL	C1D-C2D	2.68	1.50	1.45
16	9	101	BCL	C1D-C2D	2.68	1.50	1.45
16	7	104	BCL	C1D-C2D	2.67	1.50	1.45
16	I	104	BCL	MG-NC	-2.66	2.00	2.06
16	L	302	BCL	CHD-C4C	2.65	1.46	1.39
16	D	101	BCL	C1D-C2D	2.65	1.50	1.45
16	U	101	BCL	C1D-ND	-2.64	1.34	1.37
16	F	103	BCL	C1D-C2D	2.63	1.50	1.45
16	A	101	BCL	C1D-ND	-2.63	1.34	1.37
16	L	302	BCL	C1D-C2D	2.63	1.50	1.45
16	M	403	BCL	CHD-C4C	2.63	1.46	1.39
16	S	102	BCL	C1D-ND	-2.62	1.34	1.37
16	L	308	BCL	C1D-ND	-2.62	1.34	1.37
16	6	102	BCL	CHD-C4C	2.62	1.46	1.39
16	Q	102	BCL	CHD-C4C	2.61	1.46	1.39
16	D	101	BCL	C1D-ND	-2.61	1.34	1.37
16	G	103	BCL	CHD-C4C	2.61	1.46	1.39
16	P	101	BCL	CHD-C4C	2.60	1.46	1.39
16	O	104	BCL	C1D-C2D	2.60	1.50	1.45
16	Y	402	BCL	C1D-ND	-2.60	1.34	1.37
16	4	102	BCL	CHD-C4C	2.59	1.46	1.39
16	I	104	BCL	C1D-ND	-2.58	1.34	1.37
16	M	403	BCL	C1D-ND	-2.58	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	L	309	BCL	MG-NC	-2.58	2.00	2.06
16	Q	102	BCL	C1D-ND	-2.57	1.34	1.37
16	J	102	BCL	CHD-C4C	2.57	1.46	1.39
16	D	102	BCL	MG-NA	-2.57	2.00	2.06
16	N	103	BCL	CHD-C4C	2.57	1.46	1.39
16	L	302	BCL	C1D-ND	-2.56	1.34	1.37
10	C	403	HEC	C4B-C3B	2.55	1.47	1.43
16	Q	102	BCL	C1D-C2D	2.55	1.50	1.45
16	B	102	BCL	CHD-C4C	2.54	1.46	1.39
16	T	102	BCL	CHD-C4C	2.54	1.46	1.39
16	K	101	BCL	C1D-ND	-2.54	1.34	1.37
16	8	102	BCL	CHD-C4C	2.53	1.46	1.39
16	9	101	BCL	C1D-ND	-2.53	1.34	1.37
16	2	101	BCL	CHD-C4C	2.52	1.46	1.39
16	W	101	BCL	C1D-ND	-2.52	1.34	1.37
16	V	102	BCL	CHD-C4C	2.52	1.46	1.39
16	1	103	BCL	C1D-ND	-2.51	1.34	1.37
16	R	102	BCL	CHD-C4C	2.51	1.46	1.39
16	I	104	BCL	MG-NA	-2.51	2.00	2.06
16	S	103	BCL	C1D-ND	-2.51	1.34	1.37
16	5	104	BCL	C1D-ND	-2.50	1.34	1.37
16	E	101	BCL	CHD-C4C	2.50	1.46	1.39
16	1	103	BCL	MG-NC	-2.49	2.00	2.06
16	0	102	BCL	CHD-C4C	2.49	1.46	1.39
16	7	104	BCL	C1D-ND	-2.49	1.34	1.37
16	D	102	BCL	C1D-ND	-2.49	1.34	1.37
16	0	102	BCL	MG-NC	-2.49	2.00	2.06
16	W	102	BCL	MG-NA	-2.48	2.00	2.06
19	H	301	CDL	OA8-CA7	2.48	1.45	1.33
16	Z	102	BCL	CHD-C4C	2.47	1.46	1.39
16	S	103	BCL	MG-NA	-2.47	2.00	2.06
16	5	104	BCL	MG-NA	-2.46	2.00	2.06
16	Y	401	BCL	MG-NC	-2.46	2.00	2.06
16	1	104	BCL	MG-NA	-2.46	2.00	2.06
16	1	103	BCL	MG-NA	-2.45	2.00	2.06
16	L	308	BCL	C1D-C2D	2.45	1.50	1.45
16	O	105	BCL	MG-NA	-2.45	2.00	2.06
16	5	103	BCL	C1D-ND	-2.45	1.34	1.37
16	9	101	BCL	MG-NA	-2.44	2.00	2.06
16	G	103	BCL	C1D-C2D	2.44	1.50	1.45
16	9	102	BCL	MG-NA	-2.43	2.00	2.06
16	8	102	BCL	C1D-C2D	2.43	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	D	102	BCL	C1B-CHB	2.43	1.47	1.41
16	D	101	BCL	MG-NA	-2.43	2.00	2.06
16	5	104	BCL	C1B-CHB	2.42	1.47	1.41
16	O	104	BCL	MG-NA	-2.42	2.00	2.06
16	9	102	BCL	C1B-CHB	2.41	1.47	1.41
16	0	102	BCL	MG-NA	-2.40	2.00	2.06
16	X	101	BCL	CHD-C4C	2.40	1.46	1.39
16	4	102	BCL	C1D-C2D	2.40	1.50	1.45
16	S	102	BCL	MG-NA	-2.39	2.00	2.06
16	O	105	BCL	C1B-CHB	2.39	1.47	1.41
16	T	102	BCL	MG-NC	-2.39	2.00	2.06
16	I	104	BCL	C1B-CHB	2.39	1.47	1.41
16	O	104	BCL	MG-NC	-2.39	2.00	2.06
16	W	102	BCL	C1D-ND	-2.38	1.34	1.37
16	6	102	BCL	C1D-C2D	2.38	1.50	1.45
16	9	101	BCL	MG-NC	-2.38	2.00	2.06
16	5	103	BCL	MG-NC	-2.37	2.00	2.06
16	1	104	BCL	C1D-ND	-2.36	1.34	1.37
16	2	101	BCL	MG-NA	-2.36	2.00	2.06
16	Y	401	BCL	C1D-ND	-2.35	1.34	1.37
16	I	103	BCL	MG-NA	-2.35	2.00	2.06
16	3	102	BCL	MG-NA	-2.35	2.00	2.06
16	J	102	BCL	MG-NC	-2.34	2.00	2.06
16	P	101	BCL	C1D-C2D	2.34	1.49	1.45
16	2	101	BCL	C1D-C2D	2.33	1.49	1.45
16	D	101	BCL	MG-NC	-2.33	2.00	2.06
16	W	101	BCL	MG-NA	-2.33	2.00	2.06
16	I	103	BCL	C1B-CHB	2.33	1.47	1.41
16	L	308	BCL	MG-NA	-2.32	2.00	2.06
16	9	101	BCL	C1B-CHB	2.32	1.47	1.41
16	W	102	BCL	C1B-CHB	2.32	1.47	1.41
16	9	102	BCL	C1D-ND	-2.31	1.34	1.37
16	S	103	BCL	C1B-CHB	2.31	1.47	1.41
16	L	308	BCL	MG-NC	-2.31	2.00	2.06
16	B	102	BCL	MG-NA	-2.31	2.00	2.06
16	R	102	BCL	C1D-C2D	2.31	1.49	1.45
17	L	303	BPH	C3A-C2A	-2.31	1.52	1.54
16	U	101	BCL	MG-NC	-2.31	2.00	2.06
16	J	102	BCL	C1D-C2D	2.30	1.49	1.45
16	B	102	BCL	C1D-C2D	2.30	1.49	1.45
16	O	104	BCL	C1B-CHB	2.29	1.47	1.41
16	T	102	BCL	MG-NA	-2.29	2.00	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	K	101	BCL	MG-NC	-2.29	2.00	2.06
16	O	105	BCL	C1D-ND	-2.29	1.35	1.37
16	1	104	BCL	C4B-CHC	2.29	1.47	1.41
16	J	102	BCL	MG-NA	-2.29	2.00	2.06
16	M	403	BCL	MG-NC	-2.28	2.00	2.06
16	1	104	BCL	C1B-CHB	2.28	1.47	1.41
16	Y	402	BCL	C1B-CHB	2.28	1.47	1.41
16	S	102	BCL	C1B-CHB	2.27	1.47	1.41
16	6	102	BCL	MG-NC	-2.26	2.00	2.06
16	N	103	BCL	C1D-C2D	2.26	1.49	1.45
16	P	101	BCL	MG-NC	-2.26	2.00	2.06
16	E	101	BCL	C1D-C2D	2.25	1.49	1.45
16	U	101	BCL	MG-NA	-2.25	2.00	2.06
16	B	102	BCL	MG-NC	-2.25	2.00	2.06
16	S	102	BCL	MG-NC	-2.25	2.00	2.06
16	W	101	BCL	MG-NC	-2.24	2.00	2.06
16	N	103	BCL	MG-NC	-2.24	2.00	2.06
16	E	101	BCL	MG-NC	-2.24	2.01	2.06
16	D	101	BCL	C1B-CHB	2.23	1.47	1.41
16	2	101	BCL	C1B-CHB	2.23	1.47	1.41
16	F	103	BCL	MG-NA	-2.23	2.01	2.06
16	R	102	BCL	MG-NC	-2.23	2.01	2.06
16	I	103	BCL	MG-NC	-2.23	2.01	2.06
16	5	103	BCL	MG-NA	-2.23	2.01	2.06
16	2	101	BCL	MG-NC	-2.23	2.01	2.06
16	O	105	BCL	C4B-CHC	2.23	1.47	1.41
16	R	102	BCL	MG-NA	-2.22	2.01	2.06
16	M	403	BCL	C4B-CHC	2.22	1.47	1.41
16	M	403	BCL	MG-NA	-2.22	2.01	2.06
16	W	101	BCL	C1B-CHB	2.22	1.47	1.41
16	Q	102	BCL	MG-NA	-2.22	2.01	2.06
16	0	102	BCL	C1B-CHB	2.22	1.47	1.41
16	N	103	BCL	MG-NA	-2.21	2.01	2.06
16	8	102	BCL	MG-NC	-2.21	2.01	2.06
16	P	101	BCL	MG-NA	-2.21	2.01	2.06
16	1	103	BCL	C1B-CHB	2.21	1.47	1.41
16	X	101	BCL	MG-NC	-2.21	2.01	2.06
16	5	103	BCL	C1B-CHB	2.20	1.47	1.41
16	Z	102	BCL	C1D-C2D	2.20	1.49	1.45
16	V	102	BCL	MG-NA	-2.20	2.01	2.06
16	7	104	BCL	MG-NA	-2.19	2.01	2.06
16	Y	402	BCL	MG-NA	-2.19	2.01	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	B	102	BCL	C1B-CHB	2.19	1.47	1.41
16	N	103	BCL	C1B-CHB	2.19	1.47	1.41
16	Y	401	BCL	C1B-CHB	2.19	1.47	1.41
16	5	104	BCL	C4B-CHC	2.19	1.47	1.41
16	Y	402	BCL	MG-NC	-2.19	2.01	2.06
16	5	103	BCL	C4B-CHC	2.19	1.47	1.41
16	K	101	BCL	MG-NA	-2.19	2.01	2.06
16	4	102	BCL	MG-NC	-2.18	2.01	2.06
16	X	101	BCL	C1B-CHB	2.18	1.47	1.41
16	V	102	BCL	C1B-CHB	2.18	1.47	1.41
16	W	102	BCL	C4B-CHC	2.18	1.47	1.41
16	T	102	BCL	C1D-C2D	2.17	1.49	1.45
16	L	309	BCL	C1B-CHB	2.17	1.47	1.41
16	Z	102	BCL	MG-NC	-2.17	2.01	2.06
16	J	102	BCL	C1B-CHB	2.17	1.47	1.41
16	0	102	BCL	C4B-CHC	2.17	1.47	1.41
16	Y	401	BCL	MG-NA	-2.17	2.01	2.06
16	Z	102	BCL	C1B-CHB	2.16	1.47	1.41
16	8	102	BCL	C1B-CHB	2.16	1.47	1.41
16	S	103	BCL	C4B-CHC	2.16	1.47	1.41
16	6	102	BCL	C1B-CHB	2.15	1.47	1.41
16	W	101	BCL	C4B-CHC	2.15	1.47	1.41
16	I	104	BCL	C4B-CHC	2.15	1.47	1.41
16	R	102	BCL	C1B-CHB	2.15	1.47	1.41
16	T	102	BCL	C4B-CHC	2.15	1.47	1.41
16	D	102	BCL	C4B-CHC	2.14	1.47	1.41
16	3	102	BCL	C1B-CHB	2.14	1.46	1.41
16	T	102	BCL	C1B-CHB	2.14	1.46	1.41
16	L	308	BCL	C1B-CHB	2.14	1.46	1.41
16	4	102	BCL	MG-NA	-2.13	2.01	2.06
16	V	102	BCL	C1D-C2D	2.13	1.49	1.45
16	L	302	BCL	MG-NC	-2.13	2.01	2.06
16	E	101	BCL	MG-NA	-2.13	2.01	2.06
16	Q	102	BCL	MG-NC	-2.13	2.01	2.06
16	V	102	BCL	MG-NC	-2.13	2.01	2.06
16	G	103	BCL	MG-NC	-2.13	2.01	2.06
16	L	302	BCL	MG-NA	-2.13	2.01	2.06
16	8	102	BCL	MG-NA	-2.12	2.01	2.06
16	4	102	BCL	C1B-CHB	2.12	1.46	1.41
16	F	103	BCL	MG-NC	-2.12	2.01	2.06
16	X	101	BCL	MG-NA	-2.12	2.01	2.06
16	1	103	BCL	C4B-CHC	2.12	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	G	103	BCL	C1B-CHB	2.12	1.46	1.41
16	Q	102	BCL	C1B-CHB	2.11	1.46	1.41
16	L	302	BCL	C1B-CHB	2.11	1.46	1.41
16	7	104	BCL	C1B-CHB	2.11	1.46	1.41
16	D	101	BCL	C4B-CHC	2.11	1.46	1.41
16	6	102	BCL	MG-NA	-2.10	2.01	2.06
16	O	104	BCL	C4B-CHC	2.10	1.46	1.41
16	A	101	BCL	C4B-CHC	2.09	1.46	1.41
16	2	101	BCL	C4B-CHC	2.09	1.46	1.41
16	F	103	BCL	C1B-CHB	2.09	1.46	1.41
16	G	103	BCL	MG-NA	-2.09	2.01	2.06
16	K	101	BCL	C4B-CHC	2.09	1.46	1.41
16	9	101	BCL	C4B-CHC	2.08	1.46	1.41
16	P	101	BCL	C1B-CHB	2.08	1.46	1.41
16	N	103	BCL	C4B-CHC	2.08	1.46	1.41
16	9	102	BCL	C4B-CHC	2.08	1.46	1.41
16	8	102	BCL	C4B-CHC	2.07	1.46	1.41
16	I	103	BCL	C4B-CHC	2.07	1.46	1.41
16	0	102	BCL	C1D-C2D	2.07	1.49	1.45
16	A	101	BCL	MG-NC	-2.07	2.01	2.06
16	A	101	BCL	MG-NA	-2.07	2.01	2.06
16	J	102	BCL	C4B-CHC	2.07	1.46	1.41
16	K	101	BCL	C1B-CHB	2.07	1.46	1.41
16	U	101	BCL	C1B-CHB	2.07	1.46	1.41
16	A	101	BCL	C1B-CHB	2.06	1.46	1.41
16	L	309	BCL	C4B-CHC	2.06	1.46	1.41
16	B	102	BCL	C4B-CHC	2.05	1.46	1.41
16	U	101	BCL	C4B-CHC	2.05	1.46	1.41
16	V	102	BCL	C4B-CHC	2.05	1.46	1.41
16	R	102	BCL	C4B-CHC	2.05	1.46	1.41
16	Z	102	BCL	MG-NA	-2.05	2.01	2.06
16	E	101	BCL	C1B-CHB	2.05	1.46	1.41
16	3	102	BCL	MG-NC	-2.04	2.01	2.06
16	E	101	BCL	C4B-CHC	2.04	1.46	1.41
16	S	102	BCL	C4B-CHC	2.04	1.46	1.41
16	6	102	BCL	C4B-CHC	2.03	1.46	1.41
16	L	308	BCL	C4B-CHC	2.03	1.46	1.41
16	Q	102	BCL	C4B-CHC	2.03	1.46	1.41
18	L	307	UQ8	C7-C8	2.02	1.56	1.50
16	F	103	BCL	C4B-CHC	2.02	1.46	1.41
16	L	302	BCL	C4B-CHC	2.01	1.46	1.41
16	X	101	BCL	C1D-C2D	2.00	1.49	1.45

All (1316) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	R	101	CRT	C2-C1-C4	-16.52	85.50	110.86
22	4	101	CRT	C2-C1-C4	-16.06	86.20	110.86
22	N	102	CRT	C2-C1-C4	-15.95	86.37	110.86
22	8	101	CRT	C2-C1-C4	-15.86	86.50	110.86
22	G	102	CRT	C3-C1-C4	-15.59	86.92	110.86
22	Y	403	CRT	C2-C1-C4	-15.55	86.98	110.86
22	B	101	CRT	C2-C1-C4	-15.48	87.09	110.86
22	V	101	CRT	C3-C1-C4	-15.40	87.22	110.86
22	8	101	CRT	C3-C1-C4	-14.30	88.90	110.86
22	V	101	CRT	C2-C1-C4	-14.15	89.13	110.86
22	Y	403	CRT	C3-C1-C4	-13.97	89.41	110.86
22	G	102	CRT	C2-C1-C4	-13.82	89.64	110.86
22	4	101	CRT	C3-C1-C4	-13.61	89.97	110.86
22	N	102	CRT	C3-C1-C4	-13.28	90.47	110.86
22	B	101	CRT	C3-C1-C4	-13.13	90.70	110.86
22	R	101	CRT	C3-C1-C4	-12.79	91.22	110.86
16	W	102	BCL	CHD-C1D-ND	-8.90	116.28	124.45
16	U	101	BCL	CHD-C1D-ND	-8.82	116.35	124.45
16	K	101	BCL	CHD-C1D-ND	-8.76	116.40	124.45
16	W	101	BCL	CHD-C1D-ND	-8.76	116.40	124.45
16	3	102	BCL	CHD-C1D-ND	-8.75	116.42	124.45
16	O	104	BCL	CHD-C1D-ND	-8.72	116.44	124.45
16	L	309	BCL	CHD-C1D-ND	-8.69	116.47	124.45
16	S	102	BCL	CHD-C1D-ND	-8.68	116.48	124.45
16	O	105	BCL	CHD-C1D-ND	-8.67	116.48	124.45
16	1	103	BCL	CHD-C1D-ND	-8.67	116.49	124.45
16	D	101	BCL	CHD-C1D-ND	-8.61	116.54	124.45
16	5	103	BCL	CHD-C1D-ND	-8.57	116.57	124.45
16	9	101	BCL	CHD-C1D-ND	-8.56	116.58	124.45
16	1	104	BCL	CHD-C1D-ND	-8.56	116.59	124.45
16	M	403	BCL	CHD-C1D-ND	-8.55	116.59	124.45
16	Y	401	BCL	CMD-C2D-C1D	8.53	139.75	124.71
16	5	104	BCL	CHD-C1D-ND	-8.51	116.64	124.45
16	I	103	BCL	CHD-C1D-ND	-8.48	116.66	124.45
16	Y	402	BCL	CHD-C1D-ND	-8.42	116.72	124.45
16	F	103	BCL	CHD-C1D-ND	-8.40	116.73	124.45
16	M	403	BCL	CMD-C2D-C1D	8.38	139.49	124.71
16	D	102	BCL	CHD-C1D-ND	-8.37	116.76	124.45
16	Y	401	BCL	CHD-C1D-ND	-8.37	116.76	124.45
16	A	101	BCL	CHD-C1D-ND	-8.32	116.80	124.45
16	L	309	BCL	CMD-C2D-C1D	8.29	139.33	124.71
16	O	105	BCL	CMD-C2D-C1D	8.27	139.28	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	S	103	BCL	CHD-C1D-ND	-8.25	116.87	124.45
16	K	101	BCL	CMD-C2D-C1D	8.25	139.25	124.71
16	7	104	BCL	CHD-C1D-ND	-8.23	116.89	124.45
16	Q	102	BCL	CHD-C1D-ND	-8.23	116.89	124.45
16	L	302	BCL	CHD-C1D-ND	-8.22	116.90	124.45
16	S	103	BCL	CMD-C2D-C1D	8.22	139.19	124.71
16	W	101	BCL	CMD-C2D-C1D	8.20	139.17	124.71
16	S	102	BCL	CMD-C2D-C1D	8.20	139.16	124.71
16	I	104	BCL	CHD-C1D-ND	-8.20	116.92	124.45
16	1	104	BCL	CMD-C2D-C1D	8.19	139.14	124.71
16	L	302	BCL	CMD-C2D-C1D	8.19	139.14	124.71
16	W	102	BCL	CMD-C2D-C1D	8.16	139.09	124.71
16	U	101	BCL	CMD-C2D-C1D	8.16	139.09	124.71
16	L	308	BCL	CHD-C1D-ND	-8.11	117.00	124.45
16	9	102	BCL	CHD-C1D-ND	-8.08	117.03	124.45
16	5	103	BCL	CMD-C2D-C1D	8.06	138.92	124.71
16	D	102	BCL	CMD-C2D-C1D	8.01	138.83	124.71
16	3	102	BCL	CMD-C2D-C1D	8.00	138.82	124.71
16	9	102	BCL	CMD-C2D-C1D	7.99	138.79	124.71
16	7	104	BCL	CMD-C2D-C1D	7.98	138.78	124.71
16	8	102	BCL	CHD-C1D-ND	-7.98	117.12	124.45
16	I	104	BCL	CMD-C2D-C1D	7.91	138.66	124.71
16	9	101	BCL	CMD-C2D-C1D	7.90	138.64	124.71
16	5	104	BCL	CMD-C2D-C1D	7.90	138.63	124.71
16	R	102	BCL	CHD-C1D-ND	-7.86	117.23	124.45
16	F	103	BCL	CMD-C2D-C1D	7.83	138.52	124.71
16	1	103	BCL	CMD-C2D-C1D	7.82	138.49	124.71
16	4	102	BCL	CHD-C1D-ND	-7.80	117.29	124.45
16	O	104	BCL	CMD-C2D-C1D	7.78	138.43	124.71
16	G	103	BCL	CHD-C1D-ND	-7.75	117.33	124.45
16	2	101	BCL	CHD-C1D-ND	-7.74	117.34	124.45
16	D	101	BCL	CMD-C2D-C1D	7.74	138.35	124.71
16	Q	102	BCL	CMD-C2D-C1D	7.73	138.33	124.71
16	P	101	BCL	CHD-C1D-ND	-7.68	117.39	124.45
16	Y	402	BCL	CMD-C2D-C1D	7.68	138.24	124.71
16	A	101	BCL	CMD-C2D-C1D	7.66	138.22	124.71
16	J	102	BCL	CHD-C1D-ND	-7.64	117.44	124.45
16	T	102	BCL	CHD-C1D-ND	-7.61	117.46	124.45
16	I	103	BCL	CMD-C2D-C1D	7.56	138.03	124.71
16	B	102	BCL	CHD-C1D-ND	-7.47	117.59	124.45
16	6	102	BCL	CHD-C1D-ND	-7.43	117.62	124.45
16	N	103	BCL	CHD-C1D-ND	-7.41	117.65	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	G	103	BCL	CMD-C2D-C1D	7.34	137.66	124.71
16	L	308	BCL	CMD-C2D-C1D	7.31	137.60	124.71
16	Z	102	BCL	CHD-C1D-ND	-7.30	117.75	124.45
16	2	101	BCL	CMD-C2D-C1D	7.29	137.56	124.71
16	V	102	BCL	CHD-C1D-ND	-7.29	117.76	124.45
16	0	102	BCL	CHD-C1D-ND	-7.24	117.80	124.45
16	E	101	BCL	CHD-C1D-ND	-7.23	117.81	124.45
16	4	102	BCL	CMD-C2D-C1D	7.22	137.43	124.71
16	J	102	BCL	CMD-C2D-C1D	7.21	137.42	124.71
16	8	102	BCL	CMD-C2D-C1D	7.18	137.36	124.71
16	R	102	BCL	CMD-C2D-C1D	7.08	137.19	124.71
16	B	102	BCL	CMD-C2D-C1D	6.98	137.01	124.71
16	Z	102	BCL	CMD-C2D-C1D	6.98	137.01	124.71
16	6	102	BCL	CMD-C2D-C1D	6.98	137.01	124.71
16	X	101	BCL	CHD-C1D-ND	-6.97	118.05	124.45
16	P	101	BCL	CMD-C2D-C1D	6.88	136.85	124.71
16	N	103	BCL	CMD-C2D-C1D	6.83	136.75	124.71
16	V	102	BCL	CMD-C2D-C1D	6.79	136.68	124.71
16	E	101	BCL	CMD-C2D-C1D	6.77	136.64	124.71
16	0	102	BCL	CMD-C2D-C1D	6.73	136.57	124.71
16	T	102	BCL	CMD-C2D-C1D	6.62	136.38	124.71
16	X	101	BCL	CMD-C2D-C1D	6.60	136.34	124.71
16	L	309	BCL	O2D-CGD-CBD	5.84	121.65	111.27
16	L	308	BCL	O2D-CGD-CBD	5.68	121.36	111.27
16	8	102	BCL	C2D-C1D-ND	5.48	114.14	110.10
16	0	102	BCL	O2D-CGD-CBD	5.47	120.99	111.27
16	X	101	BCL	C2D-C1D-ND	5.46	114.13	110.10
16	R	102	BCL	C2D-C1D-ND	5.44	114.11	110.10
16	E	101	BCL	O2D-CGD-CBD	5.40	120.87	111.27
22	V	101	CRT	C3-C1-C2	5.38	120.48	110.37
22	8	101	CRT	C3-C1-C2	5.34	120.42	110.37
16	L	302	BCL	C2D-C1D-ND	5.34	114.04	110.10
16	P	101	BCL	C2D-C1D-ND	5.33	114.03	110.10
16	F	103	BCL	C2D-C1D-ND	5.33	114.03	110.10
16	4	102	BCL	C2D-C1D-ND	5.32	114.02	110.10
16	Q	102	BCL	C2D-C1D-ND	5.28	114.00	110.10
16	O	104	BCL	C2D-C1D-ND	5.28	113.99	110.10
22	V	101	CRT	C21-C22-C23	-5.25	119.81	127.31
16	Z	102	BCL	C2D-C1D-ND	5.22	113.95	110.10
22	G	102	CRT	C21-C22-C23	-5.19	119.90	127.31
16	V	102	BCL	C2D-C1D-ND	5.16	113.91	110.10
22	B	101	CRT	C21-C22-C23	-5.16	119.95	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	4	101	CRT	C3-C1-C2	5.16	120.08	110.37
16	F	103	BCL	O2D-CGD-CBD	5.12	120.38	111.27
16	2	101	BCL	C2D-C1D-ND	5.11	113.87	110.10
22	Y	403	CRT	C21-C22-C23	-5.10	120.03	127.31
16	G	103	BCL	C2D-C1D-ND	5.09	113.86	110.10
22	N	102	CRT	C3-C1-C2	5.08	119.93	110.37
16	E	101	BCL	C2D-C1D-ND	5.08	113.85	110.10
16	J	102	BCL	O2D-CGD-CBD	5.08	120.29	111.27
16	F	103	BCL	C3D-C2D-C1D	-5.07	98.92	105.83
22	R	101	CRT	C3-C1-C2	5.05	119.87	110.37
16	L	302	BCL	C3D-C2D-C1D	-5.05	98.95	105.83
16	N	103	BCL	O2D-CGD-CBD	5.02	120.20	111.27
16	W	101	BCL	O2D-CGD-CBD	5.02	120.19	111.27
16	B	102	BCL	C2D-C1D-ND	5.02	113.81	110.10
16	9	102	BCL	O2D-CGD-CBD	5.00	120.16	111.27
16	M	403	BCL	C3D-C2D-C1D	-4.98	99.03	105.83
16	T	102	BCL	C2D-C1D-ND	4.96	113.76	110.10
16	U	101	BCL	C2D-C1D-ND	4.96	113.76	110.10
16	O	105	BCL	O2D-CGD-CBD	4.96	120.07	111.27
16	X	101	BCL	O2D-CGD-CBD	4.95	120.07	111.27
16	5	103	BCL	C3D-C2D-C1D	-4.95	99.08	105.83
16	O	104	BCL	C3D-C2D-C1D	-4.94	99.09	105.83
16	Q	102	BCL	C3D-C2D-C1D	-4.94	99.09	105.83
16	M	403	BCL	CMB-C2B-C3B	4.93	133.91	124.68
16	M	403	BCL	C2D-C1D-ND	4.93	113.74	110.10
16	Q	102	BCL	O2D-CGD-CBD	4.92	120.02	111.27
16	Y	402	BCL	C2D-C1D-ND	4.91	113.72	110.10
16	7	104	BCL	C3D-C2D-C1D	-4.90	99.14	105.83
16	7	104	BCL	C2D-C1D-ND	4.90	113.71	110.10
16	D	102	BCL	O2D-CGD-CBD	4.88	119.93	111.27
16	U	101	BCL	C3D-C2D-C1D	-4.87	99.18	105.83
16	N	103	BCL	C2D-C1D-ND	4.86	113.68	110.10
22	Y	403	CRT	C3-C1-C2	4.86	119.51	110.37
16	O	104	BCL	O2D-CGD-CBD	4.84	119.87	111.27
16	D	101	BCL	C3D-C2D-C1D	-4.84	99.23	105.83
16	5	104	BCL	O2D-CGD-CBD	4.84	119.86	111.27
16	1	104	BCL	O2D-CGD-CBD	4.84	119.86	111.27
16	5	103	BCL	C2D-C1D-ND	4.83	113.67	110.10
16	8	102	BCL	C3D-C2D-C1D	-4.83	99.24	105.83
16	I	104	BCL	O2D-CGD-CBD	4.82	119.84	111.27
16	W	101	BCL	C3D-C2D-C1D	-4.82	99.25	105.83
16	6	102	BCL	C2D-C1D-ND	4.82	113.66	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	K	101	BCL	C3D-C2D-C1D	-4.82	99.26	105.83
16	F	103	BCL	CMB-C2B-C3B	4.81	133.69	124.68
16	Z	102	BCL	C3D-C2D-C1D	-4.81	99.27	105.83
22	M	406	CRT	C20-C19-C17	-4.81	120.45	127.31
16	9	101	BCL	C3D-C2D-C1D	-4.80	99.28	105.83
22	N	102	CRT	C21-C22-C23	-4.80	120.46	127.31
16	Y	402	BCL	C3D-C2D-C1D	-4.80	99.28	105.83
16	4	102	BCL	C3D-C2D-C1D	-4.80	99.28	105.83
16	J	102	BCL	C2D-C1D-ND	4.80	113.64	110.10
16	L	308	BCL	C2D-C1D-ND	4.79	113.64	110.10
16	9	101	BCL	O2D-CGD-CBD	4.79	119.79	111.27
22	8	101	CRT	C21-C22-C23	-4.79	120.47	127.31
16	D	101	BCL	C2D-C1D-ND	4.79	113.63	110.10
16	A	101	BCL	O2D-CGD-CBD	4.78	119.76	111.27
16	Q	102	BCL	CHD-C4C-NC	4.77	130.37	125.08
16	I	104	BCL	C3D-C2D-C1D	-4.77	99.32	105.83
16	A	101	BCL	CMB-C2B-C3B	4.77	133.60	124.68
22	R	101	CRT	C21-C22-C23	-4.77	120.51	127.31
16	S	102	BCL	C3D-C2D-C1D	-4.76	99.33	105.83
16	D	101	BCL	O2D-CGD-CBD	4.76	119.72	111.27
16	G	103	BCL	C3D-C2D-C1D	-4.76	99.34	105.83
16	R	102	BCL	C3D-C2D-C1D	-4.75	99.35	105.83
16	I	103	BCL	C3D-C2D-C1D	-4.75	99.35	105.83
16	2	101	BCL	C3D-C2D-C1D	-4.75	99.35	105.83
16	W	102	BCL	C3D-C2D-C1D	-4.75	99.36	105.83
16	T	102	BCL	O2D-CGD-CBD	4.74	119.70	111.27
16	8	102	BCL	O2D-CGD-CBD	4.74	119.68	111.27
16	B	102	BCL	C3D-C2D-C1D	-4.73	99.37	105.83
16	P	101	BCL	O2D-CGD-CBD	4.73	119.67	111.27
16	A	101	BCL	C3D-C2D-C1D	-4.72	99.39	105.83
16	0	102	BCL	C2D-C1D-ND	4.72	113.58	110.10
16	L	309	BCL	C3D-C2D-C1D	-4.72	99.39	105.83
16	M	403	BCL	CHD-C4C-NC	4.72	130.32	125.08
16	W	102	BCL	O2D-CGD-CBD	4.71	119.64	111.27
16	1	104	BCL	C3D-C2D-C1D	-4.71	99.41	105.83
16	9	102	BCL	C3D-C2D-C1D	-4.70	99.41	105.83
16	I	103	BCL	C2D-C1D-ND	4.70	113.57	110.10
16	V	102	BCL	C3D-C2D-C1D	-4.69	99.42	105.83
16	K	101	BCL	O2D-CGD-CBD	4.69	119.61	111.27
16	U	101	BCL	CMB-C2B-C3B	4.69	133.46	124.68
16	R	102	BCL	CHD-C4C-NC	4.69	130.28	125.08
16	1	103	BCL	CMB-C2B-C3B	4.68	133.43	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	X	101	BCL	C3D-C2D-C1D	-4.68	99.45	105.83
16	S	103	BCL	O2D-CGD-CBD	4.67	119.58	111.27
16	K	101	BCL	C2D-C1D-ND	4.67	113.55	110.10
16	4	102	BCL	CHD-C4C-NC	4.67	130.26	125.08
16	6	102	BCL	O2D-CGD-CBD	4.66	119.55	111.27
16	O	105	BCL	C3D-C2D-C1D	-4.66	99.47	105.83
16	P	101	BCL	C3D-C2D-C1D	-4.65	99.48	105.83
16	L	308	BCL	C3D-C2D-C1D	-4.64	99.49	105.83
16	U	101	BCL	O2D-CGD-CBD	4.64	119.51	111.27
16	D	102	BCL	C3D-C2D-C1D	-4.64	99.50	105.83
16	Y	401	BCL	C3D-C2D-C1D	-4.63	99.51	105.83
16	5	104	BCL	C3D-C2D-C1D	-4.63	99.51	105.83
16	1	103	BCL	O2D-CGD-CBD	4.62	119.48	111.27
16	S	102	BCL	O2D-CGD-CBD	4.62	119.47	111.27
16	1	103	BCL	C3D-C2D-C1D	-4.62	99.53	105.83
16	2	101	BCL	O2D-CGD-CBD	4.62	119.47	111.27
22	B	101	CRT	C3-C1-C2	4.60	119.03	110.37
18	L	307	UQ8	C1-C6-C5	4.60	123.92	119.58
16	Q	102	BCL	C3C-C4C-CHD	-4.60	113.56	123.39
16	3	102	BCL	C3D-C2D-C1D	-4.60	99.55	105.83
16	W	101	BCL	CMB-C2B-C3B	4.60	133.28	124.68
16	J	102	BCL	CMB-C2B-C3B	4.60	133.28	124.68
16	6	102	BCL	C3D-C2D-C1D	-4.59	99.56	105.83
16	N	103	BCL	C3D-C2D-C1D	-4.58	99.58	105.83
16	E	101	BCL	C3D-C2D-C1D	-4.58	99.58	105.83
16	4	102	BCL	C3C-C4C-CHD	-4.56	113.65	123.39
19	M	408	CDL	OA6-CA5-C11	4.56	119.48	111.09
16	S	102	BCL	CMB-C2B-C3B	4.55	133.20	124.68
22	G	102	CRT	C3-C1-C2	4.55	118.93	110.37
16	J	102	BCL	C3D-C2D-C1D	-4.53	99.65	105.83
16	E	101	BCL	CHD-C4C-NC	4.53	130.11	125.08
16	8	102	BCL	C1D-ND-C4D	-4.53	103.12	106.33
16	P	101	BCL	C1D-ND-C4D	-4.53	103.12	106.33
16	3	102	BCL	C2D-C1D-ND	4.52	113.43	110.10
16	R	102	BCL	C1D-ND-C4D	-4.51	103.13	106.33
16	S	103	BCL	C3D-C2D-C1D	-4.50	99.69	105.83
16	Z	102	BCL	C3C-C4C-CHD	-4.49	113.79	123.39
16	1	104	BCL	CMB-C2B-C3B	4.49	133.09	124.68
16	8	102	BCL	CHD-C4C-NC	4.49	130.06	125.08
16	E	101	BCL	C3C-C4C-CHD	-4.49	113.80	123.39
16	I	103	BCL	O2D-CGD-CBD	4.48	119.24	111.27
16	L	308	BCL	CHD-C4C-NC	4.48	130.05	125.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	V	102	BCL	CHD-C4C-NC	4.48	130.05	125.08
16	X	101	BCL	C3C-C4C-CHD	-4.48	113.82	123.39
16	A	101	BCL	C2D-C1D-ND	4.48	113.40	110.10
16	Y	402	BCL	CMB-C2B-C3B	4.47	133.05	124.68
22	M	406	CRT	C21-C22-C23	-4.47	120.93	127.31
16	L	302	BCL	CHD-C4C-NC	4.47	130.04	125.08
16	U	101	BCL	CHD-C4C-NC	4.46	130.03	125.08
16	V	102	BCL	C3C-C4C-CHD	-4.46	113.87	123.39
16	O	104	BCL	CHD-C4C-NC	4.45	130.02	125.08
22	4	101	CRT	C21-C22-C23	-4.45	120.96	127.31
16	8	102	BCL	C3C-C4C-CHD	-4.45	113.89	123.39
16	L	309	BCL	C2D-C1D-ND	4.44	113.38	110.10
16	7	104	BCL	CHD-C4C-NC	4.44	130.01	125.08
19	M	409	CDL	OB6-CB5-C51	4.44	121.07	111.50
16	E	101	BCL	CMB-C2B-C3B	4.44	132.98	124.68
16	3	102	BCL	O2D-CGD-CBD	4.43	119.14	111.27
16	0	102	BCL	CMB-C2B-C3B	4.43	132.97	124.68
16	K	101	BCL	CMB-C2B-C3B	4.43	132.97	124.68
16	P	101	BCL	CHD-C4C-NC	4.43	129.99	125.08
16	2	101	BCL	CHD-C4C-NC	4.42	129.99	125.08
16	4	102	BCL	C1D-ND-C4D	-4.42	103.20	106.33
16	Z	102	BCL	O2D-CGD-CBD	4.42	119.12	111.27
16	Y	402	BCL	CHD-C4C-NC	4.41	129.98	125.08
16	G	103	BCL	CMB-C2B-C3B	4.41	132.94	124.68
16	7	104	BCL	O2D-CGD-CBD	4.41	119.11	111.27
16	T	102	BCL	C3D-C2D-C1D	-4.41	99.81	105.83
16	R	102	BCL	C3C-C4C-CHD	-4.41	113.97	123.39
16	B	102	BCL	CHD-C4C-NC	4.40	129.97	125.08
16	B	102	BCL	O2D-CGD-CBD	4.40	119.09	111.27
16	S	102	BCL	C2D-C1D-ND	4.40	113.35	110.10
16	0	102	BCL	C3D-C2D-C1D	-4.40	99.83	105.83
16	D	101	BCL	CMB-C2B-C3B	4.39	132.90	124.68
16	Z	102	BCL	CHD-C4C-NC	4.39	129.96	125.08
16	Z	102	BCL	CMB-C2B-C3B	4.39	132.90	124.68
16	9	101	BCL	C2D-C1D-ND	4.39	113.34	110.10
19	H	301	CDL	OA6-CA5-C11	4.39	120.95	111.50
19	S	101	CDL	OB6-CB5-C51	4.39	120.95	111.50
16	G	103	BCL	CHD-C4C-NC	4.39	129.95	125.08
16	6	102	BCL	CMB-C2B-C3B	4.38	132.88	124.68
16	N	103	BCL	CMB-C2B-C3B	4.38	132.87	124.68
16	G	103	BCL	O2D-CGD-CBD	4.38	119.05	111.27
16	X	101	BCL	C1D-ND-C4D	-4.37	103.23	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	X	101	BCL	CHD-C4C-NC	4.36	129.92	125.08
22	Y	403	CRT	C20-C19-C17	-4.36	121.09	127.31
16	R	102	BCL	O2D-CGD-CBD	4.36	119.01	111.27
16	L	302	BCL	C1D-ND-C4D	-4.36	103.24	106.33
16	O	104	BCL	CMB-C2B-C3B	4.35	132.83	124.68
16	D	102	BCL	C4B-CHC-C1C	-4.35	121.50	130.12
16	5	103	BCL	O2D-CGD-CBD	4.35	118.99	111.27
16	X	101	BCL	CMB-C2B-C3B	4.34	132.80	124.68
19	M	409	CDL	OA6-CA5-C11	4.33	120.84	111.50
16	Q	102	BCL	C1D-ND-C4D	-4.33	103.26	106.33
16	Q	102	BCL	CMB-C2B-C3B	4.33	132.78	124.68
16	W	101	BCL	C2D-C1D-ND	4.33	113.30	110.10
19	O	101	CDL	OB6-CB5-C51	4.32	120.81	111.50
14	3	101	PGV	O01-C1-C2	4.32	120.81	111.50
14	V	103	PGV	O01-C1-C2	4.31	120.80	111.50
16	V	102	BCL	O2D-CGD-CBD	4.31	118.94	111.27
16	4	102	BCL	CMB-C2B-C3B	4.31	132.75	124.68
16	L	308	BCL	CMB-C2B-C3B	4.31	132.74	124.68
16	9	101	BCL	CMB-C2B-C3B	4.31	132.73	124.68
16	O	104	BCL	C1D-ND-C4D	-4.30	103.28	106.33
16	M	403	BCL	O2D-CGD-CBD	4.30	118.91	111.27
19	L	310	CDL	OB6-CB5-C51	4.30	120.77	111.50
16	N	103	BCL	CHD-C4C-NC	4.30	129.85	125.08
16	G	103	BCL	C3C-C4C-CHD	-4.29	114.22	123.39
16	M	403	BCL	C3C-C4C-CHD	-4.29	114.23	123.39
18	L	304	UQ8	C7-C8-C9	-4.29	119.65	126.79
16	9	102	BCL	C4B-CHC-C1C	-4.29	121.63	130.12
16	K	101	BCL	CHD-C4C-NC	4.29	129.84	125.08
22	M	406	CRT	C10-C9-C7	-4.28	121.19	127.31
16	L	302	BCL	C3C-C4C-CHD	-4.28	114.25	123.39
16	W	102	BCL	CMB-C2B-C3B	4.28	132.68	124.68
22	G	102	CRT	C20-C19-C17	-4.28	121.21	127.31
19	M	408	CDL	OB6-CB5-C51	4.27	120.71	111.50
16	4	102	BCL	O2D-CGD-CBD	4.26	118.85	111.27
16	T	102	BCL	CHD-C4C-NC	4.26	129.81	125.08
16	0	102	BCL	CHD-C4C-NC	4.26	129.81	125.08
16	1	103	BCL	C2D-C1D-ND	4.26	113.24	110.10
16	U	101	BCL	C1D-ND-C4D	-4.26	103.31	106.33
14	H	302	PGV	O01-C1-C2	4.26	120.67	111.50
16	5	103	BCL	CMB-C2B-C3B	4.25	132.63	124.68
16	N	103	BCL	C3C-C4C-CHD	-4.25	114.32	123.39
16	P	101	BCL	C3C-C4C-CHD	-4.24	114.32	123.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	J	102	BCL	CHD-C4C-NC	4.24	129.79	125.08
16	B	102	BCL	CMB-C2B-C3B	4.23	132.60	124.68
16	F	103	BCL	CHD-C4C-NC	4.23	129.78	125.08
16	L	302	BCL	CMB-C2B-C3B	4.22	132.58	124.68
14	X	102	PGV	O01-C1-C2	4.22	120.60	111.50
16	B	102	BCL	C3C-C4C-CHD	-4.22	114.37	123.39
16	7	104	BCL	CMB-C2B-C3B	4.22	132.57	124.68
16	W	102	BCL	C2D-C1D-ND	4.22	113.21	110.10
16	1	104	BCL	C2D-C1D-ND	4.21	113.20	110.10
14	6	101	PGV	O01-C1-C2	4.21	120.56	111.50
16	2	101	BCL	C3C-C4C-CHD	-4.20	114.41	123.39
14	P	102	PGV	O01-C1-C2	4.20	120.55	111.50
16	T	102	BCL	CMB-C2B-C3B	4.20	132.53	124.68
16	J	102	BCL	C3C-C4C-CHD	-4.19	114.43	123.39
16	I	104	BCL	C2D-C1D-ND	4.19	113.19	110.10
16	F	103	BCL	C1D-ND-C4D	-4.17	103.37	106.33
16	Z	102	BCL	C1D-ND-C4D	-4.17	103.37	106.33
16	L	309	BCL	CHD-C4C-NC	4.17	129.71	125.08
14	C	408	PGV	O01-C1-C2	4.15	120.44	111.50
16	T	102	BCL	C3C-C4C-CHD	-4.15	114.53	123.39
16	I	104	BCL	CMB-C2B-C3B	4.14	132.43	124.68
16	L	308	BCL	C1D-ND-C4D	-4.14	103.39	106.33
16	I	103	BCL	CMB-C2B-C3B	4.14	132.42	124.68
16	E	101	BCL	C1D-ND-C4D	-4.13	103.40	106.33
16	M	403	BCL	C1D-ND-C4D	-4.13	103.40	106.33
16	7	104	BCL	C3C-C4C-CHD	-4.13	114.58	123.39
14	Z	101	PGV	O01-C1-C2	4.12	120.38	111.50
16	0	102	BCL	C3C-C4C-CHD	-4.11	114.61	123.39
16	A	101	BCL	CHD-C4C-NC	4.11	129.64	125.08
16	2	101	BCL	C1D-ND-C4D	-4.11	103.42	106.33
16	3	102	BCL	CHD-C4C-NC	4.11	129.64	125.08
16	6	102	BCL	CHD-C4C-NC	4.10	129.63	125.08
16	P	101	BCL	CMB-C2B-C3B	4.10	132.35	124.68
16	V	102	BCL	CMB-C2B-C3B	4.10	132.34	124.68
16	Y	401	BCL	O2D-CGD-CBD	4.08	118.52	111.27
16	Y	402	BCL	O2D-CGD-CBD	4.08	118.52	111.27
16	3	102	BCL	CMB-C2B-C3B	4.07	132.29	124.68
14	B	103	PGV	O01-C1-C2	4.07	120.27	111.50
14	I	101	PGV	O01-C1-C2	4.07	120.27	111.50
16	V	102	BCL	C1-C2-C3	-4.06	119.03	126.04
16	T	102	BCL	C1D-ND-C4D	-4.05	103.45	106.33
14	G	104	PGV	O01-C1-C2	4.05	120.24	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	O	104	BCL	C3C-C4C-CHD	-4.05	114.74	123.39
14	2	102	PGV	O01-C1-C2	4.05	120.23	111.50
16	F	103	BCL	C3C-C4C-CHD	-4.05	114.75	123.39
14	N	105	PGV	O01-C1-C2	4.04	120.20	111.50
16	J	102	BCL	C1D-ND-C4D	-4.04	103.47	106.33
16	G	103	BCL	C1D-ND-C4D	-4.03	103.47	106.33
14	H	303	PGV	O01-C1-C2	4.03	120.19	111.50
16	3	102	BCL	C1D-ND-C4D	-4.02	103.48	106.33
14	4	103	PGV	O01-C1-C2	4.02	120.16	111.50
14	L	305	PGV	O01-C1-C2	4.01	120.15	111.50
19	M	407	CDL	OB6-CB5-C51	4.00	120.13	111.50
16	V	102	BCL	C1D-ND-C4D	-4.00	103.49	106.33
16	K	101	BCL	C1D-ND-C4D	-4.00	103.50	106.33
22	4	101	CRT	C20-C19-C17	-4.00	121.61	127.31
16	S	103	BCL	CMB-C2B-C3B	3.99	132.14	124.68
16	R	102	BCL	CMB-C2B-C3B	3.98	132.13	124.68
16	6	102	BCL	C3C-C4C-CHD	-3.98	114.89	123.39
16	4	102	BCL	C1-C2-C3	-3.98	119.16	126.04
16	7	104	BCL	C1D-ND-C4D	-3.97	103.51	106.33
16	B	102	BCL	C1D-ND-C4D	-3.97	103.52	106.33
22	N	102	CRT	C26-C27-C28	-3.97	121.65	127.31
16	U	101	BCL	C3C-C4C-CHD	-3.96	114.92	123.39
16	Q	102	BCL	C1-C2-C3	-3.96	119.20	126.04
16	8	102	BCL	CMB-C2B-C3B	3.96	132.08	124.68
16	5	104	BCL	C4B-CHC-C1C	-3.95	122.30	130.12
14	T	101	PGV	O01-C1-C2	3.95	120.01	111.50
16	D	101	BCL	C1-C2-C3	-3.94	119.23	126.04
14	N	101	PGV	O01-C1-C2	3.94	119.99	111.50
14	P	103	PGV	O01-C1-C2	3.93	119.98	111.50
10	C	403	HEC	CBA-CAA-C2A	-3.93	105.98	112.60
16	S	103	BCL	C4B-CHC-C1C	-3.93	122.33	130.12
16	R	102	BCL	C1-C2-C3	-3.93	119.25	126.04
14	1	101	PGV	O01-C1-C2	3.92	119.96	111.50
16	Y	402	BCL	C1D-ND-C4D	-3.92	103.55	106.33
16	L	308	BCL	C3C-C4C-CHD	-3.92	115.02	123.39
22	R	101	CRT	C20-C19-C17	-3.91	121.72	127.31
16	6	102	BCL	C1D-ND-C4D	-3.91	103.56	106.33
14	Z	104	PGV	O01-C1-C2	3.90	119.92	111.50
14	J	101	PGV	O01-C1-C2	3.90	119.91	111.50
19	S	101	CDL	OA6-CA5-C11	3.89	119.89	111.50
14	V	104	PGV	O01-C1-C2	3.89	119.89	111.50
16	Y	402	BCL	C3C-C4C-CHD	-3.89	115.08	123.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	O	102	PGV	O01-C1-C2	3.88	119.87	111.50
14	J	103	PGV	O01-C1-C2	3.87	119.85	111.50
15	F	102	LMT	C1B-O5B-C5B	3.87	121.29	113.69
16	O	105	BCL	C2D-C1D-ND	3.86	112.95	110.10
16	9	102	BCL	C2D-C1D-ND	3.86	112.95	110.10
16	A	101	BCL	C3C-C4C-CHD	-3.85	115.16	123.39
22	V	101	CRT	C26-C27-C28	-3.84	121.82	127.31
16	2	101	BCL	CMB-C2B-C3B	3.84	131.86	124.68
16	3	102	BCL	C3C-C4C-CHD	-3.83	115.22	123.39
19	M	410	CDL	OB6-CB5-C51	3.83	119.75	111.50
14	Z	103	PGV	O01-C1-C2	3.82	119.72	111.50
16	L	302	BCL	O2D-CGD-CBD	3.81	118.05	111.27
16	D	101	BCL	C1D-ND-C4D	-3.81	103.63	106.33
22	B	101	CRT	C20-C19-C17	-3.81	121.88	127.31
16	O	105	BCL	C4B-CHC-C1C	-3.81	122.58	130.12
14	B	104	PGV	O01-C1-C2	3.80	119.70	111.50
16	L	309	BCL	C1-C2-C3	-3.80	119.47	126.04
22	V	101	CRT	C20-C19-C17	-3.80	121.89	127.31
14	2	103	PGV	O01-C1-C2	3.79	119.68	111.50
14	R	103	PGV	O01-C1-C2	3.79	119.67	111.50
14	6	104	PGV	O01-C1-C2	3.79	119.67	111.50
14	6	103	PGV	O01-C1-C2	3.79	119.66	111.50
16	6	102	BCL	C1-C2-C3	-3.78	119.51	126.04
16	I	104	BCL	C1-C2-C3	-3.77	119.52	126.04
16	8	102	BCL	C1-C2-C3	-3.76	119.53	126.04
16	O	104	BCL	C1-C2-C3	-3.76	119.53	126.04
16	S	103	BCL	C2D-C1D-ND	3.76	112.88	110.10
16	0	102	BCL	C1D-ND-C4D	-3.76	103.67	106.33
16	5	103	BCL	C1D-ND-C4D	-3.76	103.67	106.33
16	9	102	BCL	C4A-NA-C1A	3.75	108.39	106.71
16	L	309	BCL	C1D-ND-C4D	-3.75	103.67	106.33
14	N	104	PGV	O01-C1-C2	3.75	119.58	111.50
16	K	101	BCL	C3C-C4C-CHD	-3.75	115.38	123.39
16	D	102	BCL	C2D-C1D-ND	3.74	112.86	110.10
18	L	306	UQ8	C10-C9-C11	3.73	121.55	115.27
19	M	402	CDL	OA6-CA5-C11	3.73	119.53	111.50
19	M	410	CDL	OA6-CA5-C11	3.72	119.51	111.50
16	O	105	BCL	CMB-C2B-C3B	3.71	131.62	124.68
16	5	104	BCL	C2D-C1D-ND	3.70	112.83	110.10
14	E	102	PGV	O01-C1-C2	3.69	119.46	111.50
16	N	103	BCL	C1D-ND-C4D	-3.69	103.71	106.33
14	T	103	PGV	O01-C1-C2	3.69	119.44	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	Y	401	BCL	C2D-C1D-ND	3.67	112.81	110.10
16	P	101	BCL	C3D-C4D-ND	3.66	116.16	110.24
22	V	101	CRT	C10-C9-C7	-3.66	122.09	127.31
16	M	403	BCL	C1-C2-C3	-3.66	119.72	126.04
16	S	102	BCL	C1-C2-C3	-3.64	119.74	126.04
14	8	103	PGV	O01-C1-C2	3.64	119.35	111.50
16	I	103	BCL	C1D-ND-C4D	-3.64	103.75	106.33
16	1	104	BCL	C1D-ND-C4D	-3.63	103.76	106.33
14	1	102	PGV	O01-C1-C2	3.63	119.32	111.50
16	D	101	BCL	CHD-C4C-NC	3.62	129.10	125.08
19	O	101	CDL	OA6-CA5-C11	3.61	119.29	111.50
16	S	102	BCL	C1D-ND-C4D	-3.61	103.77	106.33
16	I	103	BCL	C1-C2-C3	-3.60	119.82	126.04
22	M	406	CRT	C26-C27-C28	-3.59	122.18	127.31
16	L	309	BCL	CMB-C2B-C3B	3.59	131.40	124.68
14	F	101	PGV	O01-C1-C2	3.59	119.24	111.50
16	1	103	BCL	C1D-ND-C4D	-3.58	103.79	106.33
16	1	104	BCL	CHD-C4C-NC	3.58	129.05	125.08
16	B	102	BCL	C1-C2-C3	-3.58	119.86	126.04
16	3	102	BCL	C3D-C4D-ND	3.58	116.02	110.24
16	T	102	BCL	C3D-C4D-ND	3.58	116.02	110.24
19	L	310	CDL	OA6-CA5-C11	3.57	119.19	111.50
16	5	104	BCL	C4A-NA-C1A	3.56	108.31	106.71
16	Y	401	BCL	C1-C2-C3	-3.55	119.90	126.04
16	D	102	BCL	C1-C2-C3	-3.55	119.91	126.04
16	J	102	BCL	C1-C2-C3	-3.55	119.91	126.04
16	1	103	BCL	C1-C2-C3	-3.54	119.92	126.04
16	4	102	BCL	C3D-C4D-ND	3.53	115.95	110.24
14	0	104	PGV	O01-C1-C2	3.53	119.11	111.50
16	Y	401	BCL	CMB-C2B-C3B	3.53	131.28	124.68
16	U	101	BCL	C3D-C4D-ND	3.53	115.95	110.24
16	8	102	BCL	C3D-C4D-ND	3.52	115.94	110.24
16	R	102	BCL	C3D-C4D-ND	3.52	115.94	110.24
16	L	308	BCL	C3D-C4D-ND	3.52	115.93	110.24
16	9	102	BCL	CMB-C2B-C3B	3.51	131.25	124.68
16	Y	401	BCL	CHD-C4C-NC	3.50	128.96	125.08
10	C	402	HEC	CBA-CAA-C2A	-3.50	106.71	112.60
16	I	104	BCL	C4B-CHC-C1C	-3.49	123.20	130.12
16	K	101	BCL	C3D-C4D-ND	3.48	115.87	110.24
16	W	102	BCL	C1D-ND-C4D	-3.48	103.86	106.33
14	0	103	PGV	O01-C1-C2	3.47	118.99	111.50
16	1	104	BCL	C4B-CHC-C1C	-3.47	123.24	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	9	101	BCL	C1-C2-C3	-3.47	120.04	126.04
16	J	102	BCL	C3D-C4D-ND	3.47	115.85	110.24
16	E	101	BCL	C3D-C4D-ND	3.46	115.84	110.24
16	1	104	BCL	C1-C2-C3	-3.46	120.07	126.04
16	5	104	BCL	CMB-C2B-C3B	3.45	131.13	124.68
18	L	307	UQ8	O5-C5-C6	-3.45	115.50	121.55
16	I	103	BCL	CHD-C4C-NC	3.44	128.90	125.08
16	6	102	BCL	C3D-C4D-ND	3.44	115.80	110.24
19	H	301	CDL	OB6-CB5-C51	3.44	118.91	111.50
16	L	309	BCL	C3D-C4D-ND	3.43	115.78	110.24
16	W	101	BCL	CHD-C4C-NC	3.43	128.88	125.08
16	F	103	BCL	C1-C2-C3	-3.42	120.13	126.04
19	M	407	CDL	OA6-CA5-C11	3.42	118.86	111.50
16	O	104	BCL	C3D-C4D-ND	3.41	115.76	110.24
16	D	101	BCL	C3C-C4C-CHD	-3.40	116.13	123.39
16	9	101	BCL	C1D-ND-C4D	-3.40	103.92	106.33
16	W	101	BCL	C1D-ND-C4D	-3.40	103.92	106.33
10	C	403	HEC	CBD-CAD-C3D	-3.39	106.83	112.62
16	1	103	BCL	C3D-C4D-ND	3.39	115.72	110.24
16	1	104	BCL	C3D-C4D-ND	3.38	115.70	110.24
16	Q	102	BCL	C3D-C4D-ND	3.37	115.70	110.24
16	2	101	BCL	C3D-C4D-ND	3.37	115.69	110.24
16	L	309	BCL	C3C-C4C-CHD	-3.37	116.19	123.39
14	0	101	PGV	O01-C1-C2	3.37	118.76	111.50
16	0	102	BCL	C3D-C4D-ND	3.37	115.68	110.24
16	Y	401	BCL	C4B-CHC-C1C	-3.36	123.46	130.12
16	G	103	BCL	C3D-C4D-ND	3.36	115.67	110.24
16	B	102	BCL	C3D-C4D-ND	3.36	115.67	110.24
16	A	101	BCL	C1D-ND-C4D	-3.35	103.95	106.33
16	D	102	BCL	CMB-C2B-C3B	3.35	130.95	124.68
16	M	403	BCL	C3D-C4D-ND	3.35	115.66	110.24
16	X	101	BCL	C3D-C4D-ND	3.35	115.65	110.24
16	V	102	BCL	C3D-C4D-ND	3.34	115.64	110.24
16	S	103	BCL	C3D-C4D-ND	3.34	115.64	110.24
16	S	103	BCL	CHD-C4C-NC	3.34	128.78	125.08
16	Y	402	BCL	C3D-C4D-ND	3.34	115.64	110.24
16	I	104	BCL	O2A-CGA-CBA	3.33	122.35	111.91
22	8	101	CRT	C15-C14-C12	-3.31	122.58	127.31
16	I	103	BCL	C3D-C4D-ND	3.31	115.60	110.24
16	W	102	BCL	C3D-C4D-ND	3.31	115.60	110.24
16	Y	401	BCL	C3D-C4D-ND	3.31	115.60	110.24
16	D	101	BCL	C3D-C4D-ND	3.31	115.60	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	Z	102	BCL	C3D-C4D-ND	3.30	115.58	110.24
16	S	102	BCL	C3D-C4D-ND	3.30	115.58	110.24
10	C	401	HEC	CBA-CAA-C2A	-3.29	107.06	112.60
14	O	102	PGV	C02-O01-C1	-3.29	109.70	117.79
16	L	302	BCL	C3D-C4D-ND	3.29	115.55	110.24
16	O	105	BCL	C3D-C4D-ND	3.27	115.53	110.24
16	N	103	BCL	C3D-C4D-ND	3.27	115.53	110.24
16	D	102	BCL	C4A-NA-C1A	3.27	108.17	106.71
16	K	101	BCL	C4-C3-C5	3.26	120.76	115.27
22	8	101	CRT	C20-C19-C17	-3.25	122.67	127.31
14	G	101	PGV	O01-C1-C2	3.25	118.51	111.50
16	S	102	BCL	O2A-CGA-CBA	3.25	122.11	111.91
22	4	101	CRT	C26-C27-C28	-3.24	122.69	127.31
16	F	103	BCL	C3D-C4D-ND	3.24	115.47	110.24
16	9	101	BCL	CHD-C4C-NC	3.23	128.67	125.08
16	S	103	BCL	C1D-ND-C4D	-3.22	104.04	106.33
16	5	104	BCL	C1B-CHB-C4A	-3.22	123.73	130.12
16	1	103	BCL	CHD-C4C-NC	3.21	128.64	125.08
16	Y	402	BCL	C4-C3-C5	3.20	120.65	115.27
16	W	101	BCL	O2A-CGA-CBA	3.19	121.93	111.91
16	X	101	BCL	C1-C2-C3	-3.19	120.52	126.04
14	T	104	PGV	O01-C1-C2	3.19	118.37	111.50
16	7	104	BCL	C3D-C4D-ND	3.19	115.40	110.24
16	5	104	BCL	C3D-C4D-ND	3.18	115.39	110.24
16	A	101	BCL	C3D-C4D-ND	3.18	115.38	110.24
14	T	101	PGV	O03-C19-C20	3.18	121.88	111.91
16	5	103	BCL	C3D-C4D-ND	3.18	115.38	110.24
16	S	102	BCL	CHD-C4C-NC	3.17	128.59	125.08
16	9	101	BCL	C3D-C4D-ND	3.16	115.35	110.24
16	W	101	BCL	C3D-C4D-ND	3.15	115.33	110.24
16	Y	401	BCL	C1D-ND-C4D	-3.15	104.10	106.33
16	3	102	BCL	C4-C3-C5	3.14	120.56	115.27
16	O	105	BCL	C1D-ND-C4D	-3.14	104.10	106.33
16	D	102	BCL	C3D-C4D-ND	3.14	115.32	110.24
16	5	103	BCL	CHD-C4C-NC	3.13	128.56	125.08
16	S	103	BCL	C1-C2-C3	-3.13	120.62	126.04
18	L	306	UQ8	C17-C18-C19	-3.13	120.11	127.66
16	5	104	BCL	C1-C2-C3	-3.13	120.63	126.04
16	E	101	BCL	O2D-CGD-O1D	-3.13	117.73	123.84
18	L	307	UQ8	C1M-C1-C6	-3.12	119.30	124.40
16	I	104	BCL	C3D-C4D-ND	3.12	115.29	110.24
16	N	103	BCL	C1-C2-C3	-3.11	120.66	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	M	406	CRT	C5-C6-C7	-3.10	121.20	125.89
16	2	101	BCL	C1-C2-C3	-3.10	120.68	126.04
21	M	405	MQ8	C39-C38-C40	3.09	120.48	115.27
16	5	104	BCL	O2A-CGA-CBA	3.09	121.60	111.91
21	M	405	MQ8	C26-C27-C28	-3.09	120.23	127.66
16	U	101	BCL	C4-C3-C5	3.09	120.46	115.27
18	L	306	UQ8	C22-C23-C24	-3.08	120.23	127.66
16	G	103	BCL	C4-C3-C5	3.08	120.46	115.27
22	G	102	CRT	C26-C27-C28	-3.07	122.92	127.31
16	I	104	BCL	C1D-ND-C4D	-3.07	104.16	106.33
14	B	104	PGV	C02-O01-C1	-3.07	110.24	117.79
16	L	309	BCL	C4B-CHC-C1C	-3.07	124.04	130.12
14	C	408	PGV	O03-C19-C20	3.06	121.52	111.91
19	M	402	CDL	OB6-CB5-C51	3.06	118.09	111.50
16	W	102	BCL	CHD-C4C-NC	3.06	128.47	125.08
16	L	302	BCL	C1-C2-C3	-3.05	120.76	126.04
16	9	101	BCL	C4B-CHC-C1C	-3.05	124.08	130.12
16	0	102	BCL	C4-C3-C5	3.05	120.40	115.27
21	M	405	MQ8	C34-C33-C35	3.05	120.40	115.27
16	W	101	BCL	C1-C2-C3	-3.04	120.78	126.04
16	1	103	BCL	C4-C3-C5	3.04	120.38	115.27
14	1	102	PGV	O03-C19-C20	3.03	121.43	111.91
15	Q	101	LMT	C1B-O5B-C5B	3.03	119.64	113.69
16	I	104	BCL	CHD-C4C-NC	3.03	128.44	125.08
16	3	102	BCL	C1-C2-C3	-3.03	120.81	126.04
22	N	102	CRT	C20-C19-C17	-3.03	122.99	127.31
16	Z	102	BCL	C4-C3-C5	3.03	120.36	115.27
18	L	306	UQ8	C7-C8-C9	-3.02	121.76	126.79
22	4	101	CRT	C10-C9-C7	-3.02	123.00	127.31
16	O	104	BCL	O2A-CGA-CBA	3.02	121.39	111.91
16	D	102	BCL	O2A-CGA-CBA	3.02	121.39	111.91
16	1	104	BCL	C3C-C4C-CHD	-3.00	116.97	123.39
16	L	302	BCL	O2A-CGA-CBA	3.00	121.33	111.91
15	7	101	LMT	C1B-O1B-C4'	-3.00	110.53	117.96
14	L	305	PGV	C02-O01-C1	-3.00	110.40	117.79
22	R	101	CRT	C26-C27-C28	-3.00	123.03	127.31
19	M	408	CDL	CB4-OB6-CB5	-2.99	110.42	117.79
16	I	103	BCL	C4A-NA-C1A	2.99	108.05	106.71
16	Y	401	BCL	CMD-C2D-C3D	-2.99	120.75	127.61
16	5	103	BCL	O2A-CGA-CBA	2.98	121.28	111.91
14	0	104	PGV	O03-C19-C20	2.98	121.27	111.91
16	0	102	BCL	C1-C2-C3	-2.98	120.88	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	Y	402	BCL	CHC-C1C-NC	2.98	128.63	124.51
16	0	102	BCL	C1B-CHB-C4A	-2.98	124.22	130.12
16	O	105	BCL	O2A-CGA-CBA	2.98	121.25	111.91
16	9	101	BCL	C4-C3-C5	2.98	120.28	115.27
16	0	102	BCL	O2D-CGD-O1D	-2.97	118.02	123.84
16	9	102	BCL	C3D-C4D-ND	2.97	115.04	110.24
14	6	101	PGV	C02-O01-C1	-2.96	110.50	117.79
16	7	104	BCL	CHB-C4A-NA	2.96	128.60	124.51
16	I	103	BCL	O2A-CGA-CBA	2.96	121.19	111.91
16	L	309	BCL	O2D-CGD-O1D	-2.95	118.06	123.84
16	5	103	BCL	C4-C3-C5	2.95	120.24	115.27
16	W	101	BCL	O2D-CGD-O1D	-2.94	118.09	123.84
16	L	309	BCL	O2A-CGA-CBA	2.94	121.13	111.91
21	M	405	MQ8	C14-C13-C15	2.93	120.21	115.27
21	M	405	MQ8	C41-C42-C43	-2.92	120.62	127.66
18	L	304	UQ8	C17-C18-C19	-2.92	120.62	127.66
16	J	102	BCL	O2D-CGD-O1D	-2.92	118.13	123.84
14	Z	101	PGV	O03-C19-C20	2.92	121.07	111.91
19	M	409	CDL	OB8-CB7-C71	2.92	121.06	111.91
16	J	102	BCL	C4-C3-C5	2.92	120.18	115.27
16	O	104	BCL	CAC-C3C-C4C	-2.92	106.11	112.58
16	L	309	BCL	C4-C3-C5	2.92	120.18	115.27
19	H	301	CDL	OB8-CB7-C71	2.91	121.05	111.91
16	I	103	BCL	C3C-C4C-CHD	-2.91	117.17	123.39
14	P	102	PGV	C02-O01-C1	-2.91	110.63	117.79
14	0	104	PGV	C02-O01-C1	-2.91	110.64	117.79
16	4	102	BCL	C2A-C1A-CHA	-2.91	118.78	123.86
16	B	102	BCL	O2A-CGA-CBA	2.90	121.01	111.91
16	R	102	BCL	C4-C3-C5	2.90	120.15	115.27
16	Y	401	BCL	C3C-C4C-CHD	-2.90	117.20	123.39
16	8	102	BCL	O2A-CGA-CBA	2.90	121.01	111.91
16	Z	102	BCL	C1C-NC-C4C	-2.90	105.40	106.71
14	P	102	PGV	O03-C19-C20	2.90	121.00	111.91
16	1	104	BCL	C4-C3-C5	2.90	120.14	115.27
14	0	101	PGV	O03-C19-C20	2.90	120.99	111.91
16	1	104	BCL	O2A-CGA-CBA	2.89	120.99	111.91
19	M	402	CDL	OB8-CB7-C71	2.89	120.98	111.91
16	U	101	BCL	C1-C2-C3	-2.89	121.04	126.04
16	M	403	BCL	O2A-CGA-CBA	2.89	120.98	111.91
16	Q	102	BCL	O2A-CGA-CBA	2.89	120.97	111.91
16	9	101	BCL	C4A-NA-C1A	2.89	108.00	106.71
16	W	102	BCL	C1-C2-C3	-2.89	121.05	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	O	102	PGV	O03-C19-C20	2.88	120.96	111.91
16	U	101	BCL	CHC-C1C-NC	2.88	128.50	124.51
19	M	409	CDL	CA4-OA6-CA5	-2.87	110.72	117.79
16	Q	102	BCL	C4-C3-C5	2.87	120.10	115.27
16	E	101	BCL	CHB-C4A-NA	2.87	128.48	124.51
22	B	101	CRT	C26-C27-C28	-2.87	123.22	127.31
22	Y	403	CRT	C26-C27-C28	-2.87	123.22	127.31
16	P	101	BCL	C4-C3-C5	2.86	120.09	115.27
16	J	102	BCL	O2A-CGA-CBA	2.86	120.89	111.91
21	M	405	MQ8	C29-C28-C30	2.86	120.08	115.27
14	H	303	PGV	C02-O01-C1	-2.86	110.75	117.79
14	J	103	PGV	O03-C19-C20	2.86	120.88	111.91
16	I	103	BCL	C4-C3-C5	2.85	120.07	115.27
16	F	103	BCL	CHC-C1C-NC	2.85	128.45	124.51
16	O	105	BCL	C4-C3-C5	2.85	120.06	115.27
16	U	101	BCL	O2A-CGA-CBA	2.84	120.83	111.91
16	P	101	BCL	CHB-C4A-NA	2.84	128.44	124.51
16	O	104	BCL	C4-C3-C5	2.84	120.05	115.27
16	T	102	BCL	O2A-CGA-CBA	2.84	120.83	111.91
16	S	103	BCL	C4-C3-C5	2.84	120.05	115.27
16	D	101	BCL	C4-C3-C5	2.84	120.04	115.27
16	D	101	BCL	O2A-CGA-CBA	2.84	120.81	111.91
21	M	405	MQ8	C45-C43-C44	2.83	120.04	115.27
21	M	405	MQ8	C31-C32-C33	-2.83	120.84	127.66
16	V	102	BCL	C4-C3-C5	2.83	120.03	115.27
16	8	102	BCL	CHC-C1C-NC	2.83	128.42	124.51
16	S	103	BCL	CMD-C2D-C3D	-2.83	121.11	127.61
16	S	103	BCL	C4A-NA-C1A	2.82	107.97	106.71
16	E	101	BCL	C4-C3-C5	2.82	120.01	115.27
16	R	102	BCL	CHB-C4A-NA	2.81	128.40	124.51
16	2	101	BCL	C4-C3-C5	2.81	120.00	115.27
17	L	303	BPH	C1-C2-C3	-2.81	121.18	126.04
21	M	405	MQ8	C36-C37-C38	-2.81	120.90	127.66
16	D	102	BCL	C1D-ND-C4D	-2.81	104.34	106.33
16	G	103	BCL	O2A-CGA-CBA	2.81	120.71	111.91
16	W	101	BCL	C4-C3-C5	2.80	119.99	115.27
19	H	301	CDL	CA4-OA6-CA5	-2.80	110.89	117.79
16	3	102	BCL	CHB-C4A-NA	2.80	128.39	124.51
16	L	308	BCL	C4-C3-C5	2.80	119.98	115.27
16	W	102	BCL	C4-C3-C5	2.79	119.97	115.27
16	I	104	BCL	C3C-C4C-CHD	-2.79	117.42	123.39
19	M	408	CDL	OB8-CB7-C71	2.79	120.67	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	3	102	BCL	CHC-C1C-NC	2.79	128.37	124.51
22	8	101	CRT	C26-C27-C28	-2.79	123.33	127.31
16	9	102	BCL	O2A-CGA-CBA	2.79	120.65	111.91
15	Q	101	LMT	O5B-C1B-C2B	2.78	116.24	110.35
22	B	101	CRT	C9-C10-C11	-2.78	114.54	123.22
16	5	104	BCL	CHD-C4C-NC	2.78	128.16	125.08
14	E	102	PGV	C02-O01-C1	-2.78	110.96	117.79
16	Y	402	BCL	C1-C2-C3	-2.77	121.25	126.04
16	O	105	BCL	CMD-C2D-C3D	-2.77	121.24	127.61
16	S	102	BCL	C4-C3-C5	2.77	119.93	115.27
22	M	406	CRT	C32-C31-C30	-2.77	114.58	123.22
19	S	101	CDL	OB8-CB7-C71	2.77	120.59	111.91
19	M	402	CDL	OA8-CA7-C31	2.77	120.59	111.91
14	R	103	PGV	C02-O01-C1	-2.76	110.99	117.79
16	S	103	BCL	C3C-C4C-CHD	-2.76	117.49	123.39
18	L	306	UQ8	C1M-C1-C6	-2.76	119.90	124.40
16	L	309	BCL	CMD-C2D-C3D	-2.75	121.28	127.61
16	5	104	BCL	C1D-ND-C4D	-2.75	104.38	106.33
16	M	403	BCL	CAA-C2A-C3A	-2.75	105.25	112.78
18	L	304	UQ8	C1M-C1-C6	-2.75	119.91	124.40
14	Z	103	PGV	O03-C19-C20	2.75	120.53	111.91
16	G	103	BCL	C1-C2-C3	-2.75	121.29	126.04
14	H	303	PGV	O03-C19-C20	2.75	120.53	111.91
16	W	102	BCL	O2A-CGA-CBA	2.75	120.53	111.91
19	S	101	CDL	OA8-CA7-C31	2.74	120.51	111.91
16	A	101	BCL	CHC-C1C-NC	2.74	128.30	124.51
16	7	104	BCL	CBA-CAA-C2A	-2.74	105.78	113.86
16	9	102	BCL	C1-C2-C3	-2.74	121.31	126.04
16	5	103	BCL	C1-C2-C3	-2.74	121.31	126.04
16	K	101	BCL	CHC-C1C-NC	2.74	128.29	124.51
21	M	405	MQ8	C24-C23-C25	2.74	119.87	115.27
16	G	103	BCL	CHB-C4A-NA	2.73	128.29	124.51
16	0	102	BCL	O2A-CGA-CBA	2.73	120.48	111.91
16	Y	402	BCL	O2A-CGA-CBA	2.73	120.48	111.91
16	9	102	BCL	C4-C3-C5	2.73	119.87	115.27
18	L	304	UQ8	C15-C14-C16	2.73	119.86	115.27
16	0	102	BCL	C4D-CHA-C1A	-2.73	117.93	121.25
14	2	103	PGV	O03-C19-C20	2.72	120.45	111.91
16	W	101	BCL	C3C-C4C-CHD	-2.72	117.58	123.39
16	O	104	BCL	CHC-C1C-NC	2.72	128.27	124.51
16	T	102	BCL	O2D-CGD-O1D	-2.72	118.52	123.84
14	Z	104	PGV	C02-O01-C1	-2.72	111.11	117.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	P	101	BCL	C1-C2-C3	-2.72	121.35	126.04
16	9	102	BCL	C1D-ND-C4D	-2.71	104.41	106.33
21	M	405	MQ8	C21-C22-C23	-2.71	121.13	127.66
16	6	102	BCL	C4-C3-C5	2.71	119.83	115.27
16	4	102	BCL	CHC-C1C-NC	2.71	128.26	124.51
16	X	101	BCL	C4-C3-C5	2.71	119.83	115.27
16	9	102	BCL	CHD-C4C-NC	2.71	128.08	125.08
14	G	104	PGV	O03-C19-C20	2.71	120.41	111.91
16	L	302	BCL	CED-O2D-CGD	2.71	122.06	115.94
22	B	101	CRT	C32-C31-C30	-2.71	114.77	123.22
22	8	101	CRT	C31-C32-C33	-2.71	123.45	127.31
16	L	308	BCL	C1-C2-C3	-2.70	121.37	126.04
19	O	101	CDL	CB4-OB6-CB5	-2.70	111.14	117.79
14	P	103	PGV	O03-C19-C20	2.70	120.39	111.91
16	X	101	BCL	CHC-C1C-NC	2.70	128.25	124.51
16	R	102	BCL	O2A-CGA-CBA	2.70	120.39	111.91
16	Z	102	BCL	O2A-CGA-CBA	2.70	120.39	111.91
15	7	102	LMT	C1B-O1B-C4'	-2.70	111.28	117.96
16	4	102	BCL	CHB-C4A-NA	2.70	128.24	124.51
16	7	104	BCL	C4-C3-C5	2.70	119.81	115.27
16	Q	102	BCL	O2D-CGD-O1D	-2.70	118.56	123.84
16	L	302	BCL	CHC-C1C-NC	2.70	128.24	124.51
16	1	103	BCL	O2A-CGA-CBA	2.70	120.37	111.91
16	J	102	BCL	C4D-CHA-C1A	-2.69	117.97	121.25
16	4	102	BCL	C4-C3-C5	2.69	119.80	115.27
14	E	102	PGV	O03-C19-C20	2.69	120.36	111.91
16	K	101	BCL	O2A-CGA-CBA	2.69	120.36	111.91
18	L	307	UQ8	C7-C6-C5	-2.69	115.24	118.48
16	8	102	BCL	CHB-C4A-NA	2.69	128.23	124.51
16	T	102	BCL	C4-C3-C5	2.69	119.79	115.27
22	4	101	CRT	C14-C15-C16	-2.69	114.83	123.22
16	D	102	BCL	C4-C3-C5	2.69	119.79	115.27
16	X	101	BCL	O2D-CGD-O1D	-2.68	118.59	123.84
16	Q	102	BCL	CHB-C4A-NA	2.68	128.22	124.51
16	S	102	BCL	C3C-C4C-CHD	-2.68	117.66	123.39
16	F	103	BCL	C4-C3-C5	2.68	119.78	115.27
16	1	104	BCL	CMD-C2D-C3D	-2.68	121.45	127.61
16	W	102	BCL	C1D-CHD-C4C	-2.68	120.16	126.62
21	M	405	MQ8	C16-C17-C18	-2.68	121.21	127.66
16	N	103	BCL	O2D-CGD-O1D	-2.68	118.61	123.84
16	K	101	BCL	C1B-CHB-C4A	-2.68	124.82	130.12
16	W	102	BCL	C3C-C4C-CHD	-2.67	117.68	123.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	2	101	BCL	O2A-CGA-CBA	2.67	120.30	111.91
16	L	302	BCL	C4-C3-C5	2.67	119.77	115.27
16	1	103	BCL	C3C-C4C-CHD	-2.67	117.69	123.39
14	2	102	PGV	O03-C19-C20	2.67	120.28	111.91
16	9	101	BCL	O2A-CGA-CBA	2.67	120.28	111.91
16	M	403	BCL	CMD-C2D-C3D	-2.67	121.48	127.61
16	P	101	BCL	C2A-C1A-CHA	-2.66	119.20	123.86
16	K	101	BCL	CMD-C2D-C3D	-2.66	121.49	127.61
14	V	103	PGV	C02-O01-C1	-2.66	111.24	117.79
15	O	103	LMT	C1B-O1B-C4'	-2.66	111.38	117.96
14	6	103	PGV	C02-O01-C1	-2.66	111.25	117.79
16	R	102	BCL	CHC-C1C-NC	2.66	128.19	124.51
22	R	101	CRT	C32-C31-C30	-2.66	114.92	123.22
16	S	102	BCL	CMD-C2D-C3D	-2.66	121.50	127.61
16	2	101	BCL	CHC-C1C-NC	2.66	128.19	124.51
16	X	101	BCL	O2A-CGA-CBA	2.65	120.24	111.91
16	L	302	BCL	CHB-C4A-NA	2.65	128.18	124.51
16	7	104	BCL	C1-C2-C3	-2.65	121.46	126.04
18	L	304	UQ8	C12-C13-C14	-2.65	121.28	127.66
14	N	104	PGV	O03-C19-C20	2.65	120.22	111.91
10	C	404	HEC	CBA-CAA-C2A	-2.65	108.14	112.60
22	V	101	CRT	C14-C15-C16	-2.65	114.95	123.22
14	C	408	PGV	C02-O01-C1	-2.65	111.27	117.79
16	G	103	BCL	CHC-C1C-NC	2.65	128.17	124.51
16	9	101	BCL	C1D-CHD-C4C	-2.65	120.24	126.62
16	L	308	BCL	O2D-CGD-O1D	-2.65	118.67	123.84
16	8	102	BCL	O2D-CGD-O1D	-2.64	118.67	123.84
14	3	101	PGV	O03-C19-C20	2.64	120.19	111.91
16	P	101	BCL	CHC-C1C-NC	2.64	128.16	124.51
16	V	102	BCL	CHB-C4A-NA	2.64	128.16	124.51
16	W	102	BCL	CMD-C2D-C3D	-2.64	121.55	127.61
16	L	308	BCL	CHC-C1C-NC	2.64	128.16	124.51
16	4	102	BCL	O2A-CGA-CBA	2.63	120.17	111.91
16	S	103	BCL	O2A-CGA-CBA	2.63	120.17	111.91
16	5	104	BCL	C4-C3-C5	2.63	119.69	115.27
16	W	101	BCL	CMD-C2D-C3D	-2.62	121.58	127.61
21	M	405	MQ8	C19-C18-C20	2.62	119.68	115.27
16	E	101	BCL	O2A-CGA-CBA	2.62	120.13	111.91
16	5	103	BCL	CAA-CBA-CGA	-2.62	105.60	113.25
16	O	105	BCL	C1-C2-C3	-2.62	121.51	126.04
16	E	101	BCL	C1-C2-C3	-2.62	121.52	126.04
16	A	101	BCL	C1-O2A-CGA	2.61	123.30	116.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	F	103	BCL	O2D-CGD-O1D	-2.61	118.73	123.84
16	D	101	BCL	C4A-NA-C1A	2.60	107.88	106.71
19	S	101	CDL	CB4-OB6-CB5	-2.60	111.38	117.79
16	3	102	BCL	CMD-C2D-C3D	-2.60	121.62	127.61
16	X	101	BCL	CHB-C4A-NA	2.60	128.11	124.51
16	D	101	BCL	C1D-CHD-C4C	-2.60	120.36	126.62
16	Z	102	BCL	CHC-C1C-NC	2.60	128.10	124.51
16	G	103	BCL	C2A-C1A-CHA	-2.60	119.32	123.86
18	L	304	UQ8	C20-C19-C21	2.59	119.64	115.27
16	I	103	BCL	C4B-CHC-C1C	-2.59	124.98	130.12
14	4	103	PGV	C02-O01-C1	-2.59	111.41	117.79
22	G	102	CRT	C14-C15-C16	-2.59	115.13	123.22
14	4	103	PGV	O03-C19-C20	2.59	120.04	111.91
16	D	102	BCL	CMD-C2D-C3D	-2.59	121.66	127.61
16	6	102	BCL	CHC-C1C-NC	2.59	128.09	124.51
16	N	103	BCL	C4B-CHC-C1C	-2.59	125.00	130.12
16	1	104	BCL	CAC-C3C-C4C	-2.58	106.85	112.58
16	6	102	BCL	O2A-CGA-CBA	2.58	120.02	111.91
14	6	103	PGV	O03-C19-C20	2.58	120.01	111.91
16	V	102	BCL	C2A-C1A-CHA	-2.58	119.34	123.86
16	F	103	BCL	O2A-CGA-CBA	2.58	120.01	111.91
16	8	102	BCL	C2A-C1A-CHA	-2.58	119.35	123.86
22	M	406	CRT	C36-C35-C33	-2.58	122.00	125.89
19	O	101	CDL	OA8-CA7-C31	2.57	119.99	111.91
14	J	101	PGV	O03-C19-C20	2.57	119.98	111.91
16	Y	401	BCL	C4-C3-C5	2.57	119.60	115.27
16	Z	102	BCL	CHB-C4A-NA	2.57	128.07	124.51
14	V	104	PGV	C02-O01-C1	-2.57	111.46	117.79
16	Y	401	BCL	O2A-CGA-CBA	2.57	119.97	111.91
16	P	101	BCL	O2D-CGD-O1D	-2.57	118.82	123.84
14	B	103	PGV	C02-O01-C1	-2.57	111.47	117.79
16	P	101	BCL	O2A-CGA-CBA	2.56	119.96	111.91
16	5	103	BCL	C1D-CHD-C4C	-2.56	120.44	126.62
16	9	102	BCL	O2D-CGD-O1D	-2.56	118.83	123.84
16	7	104	BCL	CHC-C1C-NC	2.56	128.05	124.51
16	U	101	BCL	CMD-C2D-C3D	-2.56	121.73	127.61
16	Z	102	BCL	C2A-C1A-CHA	-2.56	119.39	123.86
14	N	105	PGV	C02-O01-C1	-2.56	111.50	117.79
22	V	101	CRT	C21-C20-C19	-2.55	118.25	123.47
19	M	408	CDL	OA8-CA7-C31	2.55	119.91	111.91
14	G	101	PGV	O03-C19-C20	2.55	119.91	111.91
22	N	102	CRT	C21-C20-C19	-2.55	118.25	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	2	101	BCL	C2A-C1A-CHA	-2.55	119.41	123.86
16	2	101	BCL	CHB-C4A-NA	2.54	128.03	124.51
22	Y	403	CRT	C13-C12-C11	2.54	122.08	118.08
21	M	405	MQ8	C50-C48-C49	2.54	120.22	114.60
19	M	410	CDL	OB8-CB7-C71	2.54	119.89	111.91
16	1	103	BCL	CHB-C4A-NA	2.54	128.03	124.51
16	0	102	BCL	C4B-CHC-C1C	-2.54	125.08	130.12
16	X	101	BCL	C1C-NC-C4C	-2.54	105.56	106.71
22	8	101	CRT	C13-C12-C11	2.54	122.08	118.08
16	9	101	BCL	C3C-C4C-CHD	-2.54	117.97	123.39
16	M	403	BCL	C1-O2A-CGA	2.53	123.09	116.44
16	O	105	BCL	C4A-NA-C1A	2.53	107.84	106.71
16	K	101	BCL	C1-C2-C3	-2.53	121.66	126.04
16	9	102	BCL	CMD-C2D-C3D	-2.53	121.79	127.61
14	0	103	PGV	O03-C19-C20	2.53	119.85	111.91
16	E	101	BCL	CHC-C1C-NC	2.53	128.01	124.51
16	9	101	BCL	O2D-CGD-O1D	-2.53	118.90	123.84
19	O	101	CDL	OB8-CB7-C71	2.52	119.83	111.91
18	L	306	UQ8	C25-C24-C26	2.52	119.51	115.27
16	5	103	BCL	CHB-C4A-NA	2.52	128.00	124.51
16	W	101	BCL	C4B-CHC-C1C	-2.52	125.13	130.12
18	L	306	UQ8	C20-C19-C21	2.52	119.50	115.27
22	R	101	CRT	C5-C6-C7	-2.51	122.10	125.89
16	5	103	BCL	C3C-C4C-CHD	-2.51	118.03	123.39
16	S	102	BCL	C1D-CHD-C4C	-2.51	120.57	126.62
16	R	102	BCL	C2A-C1A-CHA	-2.51	119.47	123.86
22	Y	403	CRT	C5-C6-C7	-2.51	122.11	125.89
19	M	407	CDL	OB8-CB7-C71	2.50	119.77	111.91
22	G	102	CRT	C13-C12-C11	2.50	122.02	118.08
16	5	104	BCL	CMD-C2D-C3D	-2.50	121.86	127.61
22	Y	403	CRT	C9-C10-C11	-2.50	115.41	123.22
22	V	101	CRT	C32-C31-C30	-2.50	115.41	123.22
16	6	102	BCL	C2A-C1A-CHA	-2.50	119.49	123.86
16	O	105	BCL	CHD-C4C-NC	2.50	127.85	125.08
16	J	102	BCL	C4B-CHC-C1C	-2.50	125.17	130.12
16	W	101	BCL	C1D-CHD-C4C	-2.49	120.61	126.62
16	T	102	BCL	C1-C2-C3	-2.49	121.74	126.04
16	2	101	BCL	C1D-CHD-C4C	-2.49	120.62	126.62
19	L	310	CDL	OA8-CA7-C31	2.49	119.72	111.91
16	V	102	BCL	CHC-C1C-NC	2.49	127.95	124.51
16	1	104	BCL	O2D-CGD-O1D	-2.49	118.97	123.84
14	Z	104	PGV	O03-C19-C20	2.49	119.71	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	M	410	CDL	OA8-CA7-C31	2.49	119.71	111.91
15	F	102	LMT	O5B-C1B-C2B	2.48	115.61	110.35
16	5	104	BCL	O2D-CGD-O1D	-2.48	118.98	123.84
16	5	104	BCL	C3C-C4C-CHD	-2.48	118.09	123.39
19	M	409	CDL	OA8-CA7-C31	2.48	119.70	111.91
16	L	302	BCL	CMD-C2D-C3D	-2.48	121.91	127.61
16	L	308	BCL	O2A-CGA-CBA	2.48	119.69	111.91
22	N	102	CRT	C32-C31-C30	-2.48	115.48	123.22
16	3	102	BCL	C2A-C1A-CHA	-2.48	119.53	123.86
22	N	102	CRT	C10-C9-C7	-2.48	123.77	127.31
16	I	104	BCL	C4-C3-C5	2.48	119.44	115.27
14	J	103	PGV	O14-P-O13	2.47	120.37	110.68
16	X	101	BCL	C2A-C1A-CHA	-2.47	119.53	123.86
22	Y	403	CRT	C10-C9-C7	-2.47	123.78	127.31
16	M	403	BCL	CHC-C1C-NC	2.47	127.93	124.51
14	6	101	PGV	O03-C19-C20	2.47	119.66	111.91
22	8	101	CRT	C13-C12-C14	-2.47	119.47	122.92
14	N	101	PGV	O03-C19-C20	2.47	119.65	111.91
16	2	101	BCL	O2D-CGD-O1D	-2.47	119.01	123.84
22	N	102	CRT	C14-C15-C16	-2.46	115.53	123.22
16	1	103	BCL	C4B-CHC-C1C	-2.46	125.24	130.12
16	1	104	BCL	C2A-C1A-CHA	-2.46	119.55	123.86
16	N	103	BCL	C4-C3-C5	2.46	119.41	115.27
14	V	103	PGV	O03-C19-C20	2.46	119.62	111.91
16	N	103	BCL	CHB-C4A-NA	2.46	127.91	124.51
22	B	101	CRT	C34-C33-C35	2.46	121.95	118.08
16	U	101	BCL	O2D-CGD-O1D	-2.45	119.04	123.84
16	M	403	BCL	CHB-C4A-NA	2.45	127.90	124.51
15	Q	101	LMT	C1B-O1B-C4'	-2.45	111.89	117.96
22	B	101	CRT	C21-C20-C19	-2.45	118.45	123.47
16	1	103	BCL	CMD-C2D-C3D	-2.45	121.98	127.61
16	Q	102	BCL	CHC-C1C-NC	2.45	127.90	124.51
22	M	406	CRT	C14-C15-C16	-2.45	115.58	123.22
14	T	103	PGV	O03-C19-C20	2.45	119.59	111.91
16	Q	102	BCL	C2A-C1A-CHA	-2.45	119.58	123.86
16	7	104	BCL	C2A-C1A-CHA	-2.45	119.58	123.86
18	L	304	UQ8	C10-C9-C11	2.45	119.39	115.27
14	I	101	PGV	O03-C19-C20	2.44	119.58	111.91
22	G	102	CRT	C9-C10-C11	-2.44	115.59	123.22
16	V	102	BCL	O2A-CGA-CBA	2.44	119.57	111.91
16	5	103	BCL	CMD-C2D-C3D	-2.44	122.00	127.61
16	D	101	BCL	CHB-C4A-NA	2.44	127.89	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	N	105	PGV	O03-C19-C20	2.44	119.56	111.91
19	M	407	CDL	OA8-CA7-C31	2.44	119.56	111.91
10	C	402	HEC	CBD-CAD-C3D	-2.44	108.46	112.62
16	6	102	BCL	O2D-CGD-O1D	-2.44	119.07	123.84
16	D	102	BCL	O2D-CGD-O1D	-2.44	119.08	123.84
19	M	407	CDL	CB4-OB6-CB5	-2.44	111.80	117.79
15	O	103	LMT	C1-O1'-C1'	-2.43	109.80	113.84
19	L	310	CDL	CB4-OB6-CB5	-2.43	111.80	117.79
19	L	310	CDL	OB8-CB7-C71	2.43	119.54	111.91
22	G	102	CRT	C21-C20-C19	-2.43	118.49	123.47
16	I	104	BCL	CMD-C2D-C3D	-2.43	122.02	127.61
16	O	105	BCL	C1D-CHD-C4C	-2.43	120.76	126.62
22	G	102	CRT	C10-C9-C7	-2.43	123.84	127.31
22	R	101	CRT	C10-C9-C7	-2.43	123.85	127.31
16	9	102	BCL	C1B-CHB-C4A	-2.43	125.31	130.12
16	9	102	BCL	C3C-C4C-CHD	-2.43	118.21	123.39
18	L	304	UQ8	C25-C24-C26	2.42	119.96	114.60
22	R	101	CRT	C21-C20-C19	-2.42	118.51	123.47
16	O	105	BCL	CHD-C1D-C2D	2.42	130.56	125.48
16	D	102	BCL	C1D-CHD-C4C	-2.42	120.78	126.62
22	G	102	CRT	C31-C32-C33	-2.42	123.86	127.31
22	8	101	CRT	C21-C20-C19	-2.42	118.52	123.47
22	G	102	CRT	C36-C35-C33	-2.42	122.24	125.89
14	G	104	PGV	C02-O01-C1	-2.42	111.84	117.79
16	5	103	BCL	C4A-NA-C1A	2.41	107.79	106.71
16	6	102	BCL	C1D-CHD-C4C	-2.41	120.80	126.62
14	1	101	PGV	O03-C19-C20	2.41	119.48	111.91
16	5	104	BCL	CHD-C1D-C2D	2.41	130.53	125.48
16	7	104	BCL	CMD-C2D-C3D	-2.41	122.07	127.61
16	X	101	BCL	C1D-CHD-C4C	-2.41	120.81	126.62
16	4	102	BCL	O2D-CGD-O1D	-2.41	119.13	123.84
15	L	301	LMT	C1B-O1B-C4'	-2.41	112.01	117.96
14	1	101	PGV	C02-O01-C1	-2.40	111.88	117.79
16	9	101	BCL	CMD-C2D-C3D	-2.40	122.09	127.61
16	Z	102	BCL	C1D-CHD-C4C	-2.40	120.83	126.62
16	6	102	BCL	CHB-C4A-NA	2.40	127.83	124.51
22	Y	403	CRT	C36-C35-C33	-2.40	122.27	125.89
16	9	102	BCL	C1D-CHD-C4C	-2.40	120.83	126.62
22	Y	403	CRT	C32-C31-C30	-2.40	115.74	123.22
16	A	101	BCL	C1-C2-C3	-2.40	121.90	126.04
22	Y	403	CRT	C14-C15-C16	-2.39	115.74	123.22
16	D	101	BCL	C4B-CHC-C1C	-2.39	125.38	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	H	302	PGV	O03-C19-C20	2.39	119.42	111.91
16	W	102	BCL	CHD-C1D-C2D	2.39	130.50	125.48
16	A	101	BCL	O2D-CGD-O1D	-2.39	119.16	123.84
22	R	101	CRT	C14-C15-C16	-2.39	115.76	123.22
16	B	102	BCL	C1D-CHD-C4C	-2.39	120.86	126.62
16	W	102	BCL	C4B-CHC-C1C	-2.39	125.39	130.12
16	S	103	BCL	C1D-CHD-C4C	-2.38	120.88	126.62
16	W	102	BCL	O2D-CGD-O1D	-2.38	119.18	123.84
16	O	105	BCL	O2D-CGD-O1D	-2.38	119.18	123.84
22	8	101	CRT	C9-C10-C11	-2.38	115.79	123.22
16	V	102	BCL	O2D-CGD-O1D	-2.38	119.19	123.84
16	B	102	BCL	C2A-C1A-CHA	-2.38	119.70	123.86
16	R	102	BCL	O2D-CGD-O1D	-2.38	119.19	123.84
16	L	309	BCL	C4A-NA-C1A	2.38	107.77	106.71
22	Y	403	CRT	C21-C20-C19	-2.37	118.61	123.47
16	I	104	BCL	O2A-CGA-O1A	-2.36	117.62	123.59
14	3	101	PGV	C02-O01-C1	-2.36	111.97	117.79
16	1	103	BCL	C1D-CHD-C4C	-2.36	120.92	126.62
15	H	305	LMT	C1B-O1B-C4'	-2.36	112.11	117.96
18	L	307	UQ8	O4-C4-C5	2.36	124.55	116.56
16	X	101	BCL	C4D-CHA-C1A	-2.36	118.38	121.25
16	3	102	BCL	O2A-CGA-CBA	2.36	119.31	111.91
22	B	101	CRT	C8-C7-C6	2.36	121.80	118.08
16	Y	401	BCL	CHD-C1D-C2D	2.36	130.43	125.48
15	5	102	LMT	C1B-O1B-C4'	-2.36	112.12	117.96
16	1	103	BCL	O2D-CGD-O1D	-2.36	119.23	123.84
16	7	104	BCL	O2D-CGD-O1D	-2.36	119.23	123.84
16	G	103	BCL	O2D-CGD-O1D	-2.36	119.23	123.84
16	D	101	BCL	O2D-CGD-O1D	-2.36	119.23	123.84
14	6	104	PGV	O03-C19-C20	2.36	119.31	111.91
16	8	102	BCL	C4-C3-C5	2.36	119.23	115.27
16	M	403	BCL	CED-O2D-CGD	2.36	121.26	115.94
16	B	102	BCL	CHC-C1C-NC	2.35	127.77	124.51
22	8	101	CRT	C32-C31-C30	-2.35	115.88	123.22
16	L	308	BCL	C1D-CHD-C4C	-2.35	120.95	126.62
22	B	101	CRT	C13-C12-C11	2.35	121.78	118.08
16	I	103	BCL	C1D-CHD-C4C	-2.35	120.95	126.62
15	Q	101	LMT	C1B-C2B-C3B	2.34	114.87	110.00
16	A	101	BCL	C4-C3-C5	2.34	119.21	115.27
16	O	104	BCL	O2D-CGD-O1D	-2.34	119.26	123.84
16	7	104	BCL	C1-O2A-CGA	2.34	122.59	116.44
22	R	101	CRT	C9-C10-C11	-2.34	115.91	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	D	102	BCL	CHD-C1D-C2D	2.33	130.38	125.48
14	P	103	PGV	O14-P-O13	2.33	119.82	110.68
16	S	102	BCL	O2D-CGD-O1D	-2.33	119.28	123.84
16	K	101	BCL	O2D-CGD-O1D	-2.33	119.28	123.84
16	S	102	BCL	C4A-NA-C1A	2.33	107.75	106.71
16	V	102	BCL	C1D-CHD-C4C	-2.33	120.99	126.62
22	N	102	CRT	C34-C33-C35	2.33	121.75	118.08
16	D	101	BCL	CAC-C3C-C4C	-2.33	107.41	112.58
16	Z	102	BCL	O2D-CGD-O1D	-2.33	119.29	123.84
19	L	310	CDL	CB6-CB4-CB3	-2.33	106.28	111.79
16	S	103	BCL	CHB-C4A-NA	2.32	127.73	124.51
16	D	101	BCL	C1C-NC-C4C	-2.32	105.66	106.71
16	E	101	BCL	C1D-CHD-C4C	-2.32	121.02	126.62
16	B	102	BCL	CHB-C4A-NA	2.32	127.72	124.51
16	I	104	BCL	O2D-CGD-O1D	-2.32	119.31	123.84
16	S	103	BCL	CAC-C3C-C4C	-2.32	107.44	112.58
16	I	103	BCL	C1C-NC-C4C	-2.31	105.67	106.71
16	J	102	BCL	C2A-C1A-CHA	-2.31	119.82	123.86
16	O	104	BCL	C1D-CHD-C4C	-2.31	121.06	126.62
16	T	102	BCL	CHB-C4A-NA	2.30	127.69	124.51
16	G	103	BCL	C1D-CHD-C4C	-2.30	121.07	126.62
16	1	104	BCL	C1D-CHD-C4C	-2.30	121.07	126.62
22	M	406	CRT	C31-C32-C33	-2.30	124.03	127.31
16	Z	102	BCL	C6-C5-C3	-2.30	107.43	113.45
14	L	305	PGV	O03-C19-C20	2.30	119.11	111.91
16	W	101	BCL	CHD-C1D-C2D	2.30	130.29	125.48
14	P	103	PGV	C03-C02-C01	-2.29	106.37	111.79
16	M	403	BCL	C4-C3-C5	2.29	119.12	115.27
16	S	102	BCL	C1C-NC-C4C	-2.29	105.68	106.71
14	T	103	PGV	C02-O01-C1	-2.29	112.16	117.79
16	S	103	BCL	O2D-CGD-O1D	-2.29	119.36	123.84
16	5	103	BCL	C4B-CHC-C1C	-2.29	125.59	130.12
16	Q	102	BCL	C1D-CHD-C4C	-2.29	121.11	126.62
16	L	309	BCL	C1D-CHD-C4C	-2.28	121.12	126.62
16	D	102	BCL	CHB-C4A-NA	2.28	127.66	124.51
16	T	102	BCL	C4B-CHC-C1C	-2.28	125.61	130.12
22	V	101	CRT	C5-C6-C7	-2.28	122.45	125.89
16	O	105	BCL	CHB-C4A-NA	2.28	127.66	124.51
16	1	103	BCL	CHD-C1D-C2D	2.28	130.25	125.48
22	M	406	CRT	C9-C10-C11	-2.27	116.12	123.22
16	E	101	BCL	C2A-C1A-CHA	-2.27	119.88	123.86
16	W	101	BCL	CHB-C4A-NA	2.27	127.66	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	4	102	BCL	C1D-CHD-C4C	-2.27	121.14	126.62
16	R	102	BCL	C1D-CHD-C4C	-2.27	121.15	126.62
16	S	103	BCL	CHD-C1D-C2D	2.27	130.24	125.48
16	A	101	BCL	CMD-C2D-C3D	-2.27	122.39	127.61
16	A	101	BCL	C1B-CHB-C4A	-2.27	125.62	130.12
22	B	101	CRT	C15-C14-C12	-2.27	124.08	127.31
16	Y	402	BCL	CED-O2D-CGD	2.26	121.06	115.94
16	L	308	BCL	C4B-CHC-C1C	-2.26	125.63	130.12
14	Z	103	PGV	C02-O01-C1	-2.26	112.23	117.79
16	1	104	BCL	CHB-C4A-NA	2.26	127.64	124.51
16	D	101	BCL	CMD-C2D-C3D	-2.26	122.42	127.61
16	1	103	BCL	C2A-C1A-CHA	-2.26	119.92	123.86
22	4	101	CRT	C9-C10-C11	-2.25	116.19	123.22
22	M	406	CRT	C15-C14-C12	-2.25	124.10	127.31
16	1	104	BCL	CHD-C1D-C2D	2.25	130.20	125.48
16	M	403	BCL	C1D-CHD-C4C	-2.25	121.20	126.62
16	L	308	BCL	C2A-C1A-CHA	-2.24	119.94	123.86
14	N	104	PGV	C02-O01-C1	-2.24	112.27	117.79
16	I	103	BCL	O2D-CGD-O1D	-2.24	119.45	123.84
16	P	101	BCL	C1D-CHD-C4C	-2.24	121.22	126.62
16	L	302	BCL	C2A-C1A-CHA	-2.24	119.94	123.86
16	S	102	BCL	C2A-C1A-CHA	-2.24	119.95	123.86
18	L	307	UQ8	O5-C5-C4	2.24	125.68	120.93
22	V	101	CRT	C9-C10-C11	-2.23	116.24	123.22
16	I	103	BCL	CHC-C1C-NC	2.23	127.60	124.51
16	S	103	BCL	C2A-C1A-CHA	-2.23	119.95	123.86
16	Y	402	BCL	CMD-C2D-C3D	-2.23	122.48	127.61
16	S	102	BCL	CHD-C1D-C2D	2.23	130.16	125.48
16	O	104	BCL	CMD-C2D-C3D	-2.23	122.48	127.61
14	B	104	PGV	O03-C19-C20	2.23	118.91	111.91
16	K	101	BCL	C4B-CHC-C1C	-2.23	125.70	130.12
16	S	102	BCL	CHB-C4A-NA	2.23	127.59	124.51
22	V	101	CRT	C13-C12-C11	2.23	121.58	118.08
16	L	309	BCL	CHD-C1D-C2D	2.22	130.14	125.48
16	3	102	BCL	CHD-C1D-C2D	2.22	130.13	125.48
14	F	101	PGV	C02-O01-C1	-2.22	112.33	117.79
16	Y	401	BCL	C2A-C1A-CHA	-2.22	119.98	123.86
16	Y	401	BCL	C1D-CHD-C4C	-2.22	121.27	126.62
16	D	102	BCL	CHD-C4C-NC	2.22	127.54	125.08
16	5	104	BCL	O2A-CGA-O1A	-2.22	118.00	123.59
14	T	104	PGV	C02-O01-C1	-2.22	112.34	117.79
22	V	101	CRT	C29-C28-C30	2.22	121.57	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	T	102	BCL	C2A-C1A-CHA	-2.21	119.99	123.86
15	5	101	LMT	O1B-C4'-C5'	2.21	115.51	109.45
15	I	102	LMT	O5B-C1B-C2B	2.21	115.03	110.35
16	S	102	BCL	C4B-CHC-C1C	-2.21	125.74	130.12
16	L	308	BCL	O1D-CGD-CBD	-2.21	119.97	124.48
16	N	103	BCL	C1D-CHD-C4C	-2.21	121.30	126.62
19	S	101	CDL	OB6-CB5-OB7	-2.20	118.38	123.70
14	R	103	PGV	O14-P-O13	2.20	119.31	110.68
22	R	101	CRT	C34-C33-C35	2.20	121.54	118.08
16	B	102	BCL	C4-C3-C5	2.20	118.97	115.27
22	G	102	CRT	C32-C31-C30	-2.20	116.36	123.22
16	B	102	BCL	C4B-CHC-C1C	-2.20	125.77	130.12
16	7	104	BCL	C1D-CHD-C4C	-2.19	121.33	126.62
16	F	103	BCL	CMD-C2D-C3D	-2.19	122.56	127.61
16	3	102	BCL	O2D-CGD-O1D	-2.19	119.55	123.84
16	W	101	BCL	O2A-CGA-O1A	-2.19	118.06	123.59
14	X	102	PGV	O03-C19-C20	2.19	118.79	111.91
14	X	102	PGV	C02-O01-C1	-2.19	112.40	117.79
16	Q	102	BCL	CMD-C2D-C3D	-2.19	122.58	127.61
16	L	302	BCL	C4D-CHA-C1A	-2.19	118.59	121.25
16	I	103	BCL	CHB-C4A-NA	2.19	127.54	124.51
16	5	103	BCL	CHC-C1C-NC	2.19	127.54	124.51
16	9	102	BCL	CAC-C3C-C4C	-2.19	107.73	112.58
22	R	101	CRT	C38-C37-C36	-2.19	107.26	113.06
22	N	102	CRT	C9-C10-C11	-2.19	116.40	123.22
16	9	101	BCL	CHD-C1D-C2D	2.18	130.06	125.48
16	Y	401	BCL	C1B-CHB-C4A	-2.18	125.79	130.12
22	4	101	CRT	C13-C12-C11	2.18	121.52	118.08
17	L	303	BPH	CMA-C3A-C4A	-2.18	109.60	114.38
16	T	102	BCL	C1B-CHB-C4A	-2.18	125.80	130.12
14	T	101	PGV	O03-C19-O04	-2.18	118.09	123.59
16	7	104	BCL	C1C-NC-C4C	-2.18	105.73	106.71
16	E	101	BCL	C4D-CHA-C1A	-2.18	118.60	121.25
14	T	104	PGV	O03-C19-C20	2.18	118.75	111.91
16	U	101	BCL	C1B-CHB-C4A	-2.18	125.80	130.12
18	L	306	UQ8	C30-C29-C31	2.18	119.41	114.60
16	I	104	BCL	C4A-NA-C1A	2.18	107.69	106.71
16	5	104	BCL	C1D-CHD-C4C	-2.18	121.37	126.62
16	5	103	BCL	O2D-CGD-O1D	-2.17	119.59	123.84
16	D	101	BCL	C2A-C1A-CHA	-2.17	120.06	123.86
16	I	103	BCL	CMD-C2D-C3D	-2.17	122.62	127.61
16	K	101	BCL	CHD-C1D-C2D	2.17	130.03	125.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	H	302	PGV	C02-O01-C1	-2.17	112.45	117.79
16	5	103	BCL	CED-O2D-CGD	2.17	120.84	115.94
14	Z	101	PGV	C02-O01-C1	-2.17	112.45	117.79
16	1	103	BCL	CED-O2D-CGD	2.17	120.84	115.94
22	4	101	CRT	C31-C32-C33	-2.17	124.22	127.31
16	9	102	BCL	CHD-C1D-C2D	2.17	130.02	125.48
22	4	101	CRT	C32-C31-C30	-2.16	116.46	123.22
22	R	101	CRT	C13-C12-C11	2.16	121.49	118.08
16	F	103	BCL	CHB-C4A-NA	2.16	127.50	124.51
19	M	410	CDL	CB4-OB6-CB5	-2.16	112.48	117.79
22	8	101	CRT	C14-C15-C16	-2.16	116.49	123.22
16	A	101	BCL	O2A-CGA-CBA	2.15	118.67	111.91
16	L	302	BCL	O2A-CGA-O1A	-2.15	118.16	123.59
22	Y	403	CRT	C31-C32-C33	-2.15	124.24	127.31
16	B	102	BCL	O2D-CGD-O1D	-2.15	119.64	123.84
16	L	309	BCL	CHB-C4A-NA	2.15	127.48	124.51
16	1	103	BCL	CHC-C1C-NC	2.15	127.48	124.51
16	L	302	BCL	C1D-CHD-C4C	-2.15	121.44	126.62
22	8	101	CRT	C18-C17-C16	2.15	121.46	118.08
16	T	102	BCL	CHC-C1C-NC	2.15	127.48	124.51
22	4	101	CRT	C21-C20-C19	-2.15	119.08	123.47
16	D	102	BCL	CED-O2D-CGD	2.15	120.79	115.94
16	I	104	BCL	C1D-CHD-C4C	-2.15	121.45	126.62
22	8	101	CRT	C10-C9-C7	-2.14	124.25	127.31
16	0	102	BCL	C1D-CHD-C4C	-2.14	121.45	126.62
15	H	304	LMT	C4B-C3B-C2B	-2.14	107.08	110.82
16	W	102	BCL	CAC-C3C-C4C	-2.14	107.83	112.58
16	M	403	BCL	O2D-CGD-O1D	-2.14	119.66	123.84
16	2	101	BCL	C4B-CHC-C1C	-2.14	125.88	130.12
22	V	101	CRT	C18-C17-C16	2.13	121.43	118.08
16	7	104	BCL	C4B-CHC-C1C	-2.13	125.90	130.12
16	L	308	BCL	C6-C5-C3	-2.13	107.88	113.45
14	0	104	PGV	O03-C19-O04	-2.12	118.24	123.59
22	M	406	CRT	C13-C12-C11	2.12	121.42	118.08
16	1	104	BCL	CED-O2D-CGD	2.12	120.73	115.94
16	8	102	BCL	C1D-CHD-C4C	-2.11	121.52	126.62
16	L	308	BCL	CHB-C4A-NA	2.11	127.43	124.51
16	Y	402	BCL	C1D-CHD-C4C	-2.11	121.54	126.62
16	L	309	BCL	O2A-CGA-O1A	-2.11	118.28	123.59
16	5	104	BCL	CAC-C3C-C4C	-2.11	107.91	112.58
16	4	102	BCL	C4D-CHA-C1A	-2.11	118.69	121.25
16	8	102	BCL	C6-C5-C3	-2.11	107.93	113.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	W	102	BCL	CHB-C4A-NA	2.11	127.42	124.51
10	C	404	HEC	CMB-C2B-C1B	-2.10	125.23	128.46
16	B	102	BCL	C1B-CHB-C4A	-2.10	125.95	130.12
16	F	103	BCL	C2A-C1A-CHA	-2.10	120.18	123.86
16	O	104	BCL	O2A-CGA-O1A	-2.10	118.29	123.59
16	I	104	BCL	CHD-C1D-C2D	2.10	129.88	125.48
16	U	101	BCL	CHD-C1D-C2D	2.10	129.88	125.48
16	S	102	BCL	O2A-CGA-O1A	-2.10	118.30	123.59
22	R	101	CRT	C27-C26-C25	-2.10	116.67	123.22
15	I	102	LMT	C1B-C2B-C3B	2.09	114.36	110.00
16	9	101	BCL	CHB-C4A-NA	2.09	127.41	124.51
16	I	103	BCL	C2A-C1A-CHA	-2.09	120.20	123.86
22	N	102	CRT	C18-C17-C16	2.09	121.37	118.08
16	S	102	BCL	CHC-C1C-NC	2.09	127.40	124.51
19	M	409	CDL	OA6-CA5-OA7	-2.09	118.65	123.70
15	7	101	LMT	O5'-C5'-C6'	2.09	111.63	106.44
14	8	103	PGV	C02-O01-C1	-2.09	112.65	117.79
16	T	102	BCL	C4D-CHA-C1A	-2.09	118.71	121.25
22	4	101	CRT	C18-C17-C16	2.09	121.36	118.08
16	Y	401	BCL	CHB-C4A-NA	2.09	127.40	124.51
16	D	102	BCL	O2A-CGA-O1A	-2.09	118.33	123.59
19	M	408	CDL	OB6-CB5-OB7	-2.08	118.67	123.70
16	I	104	BCL	CHB-C4A-NA	2.08	127.39	124.51
16	Q	102	BCL	CAC-C3C-C4C	-2.08	107.96	112.58
16	J	102	BCL	C1D-CHD-C4C	-2.08	121.60	126.62
16	3	102	BCL	CED-O2D-CGD	2.08	120.64	115.94
16	3	102	BCL	C4B-CHC-C1C	-2.07	126.01	130.12
14	8	103	PGV	O03-C19-C20	2.07	118.41	111.91
16	O	105	BCL	O2A-CGA-O1A	-2.07	118.36	123.59
22	R	101	CRT	C8-C7-C6	2.07	121.34	118.08
16	6	102	BCL	C1C-NC-C4C	-2.07	105.78	106.71
22	M	406	CRT	C18-C17-C19	-2.07	120.02	122.92
16	L	309	BCL	C2A-C1A-CHA	-2.07	120.24	123.86
16	8	102	BCL	C4D-CHA-C1A	-2.07	118.73	121.25
16	U	101	BCL	C2A-C1A-CHA	-2.07	120.25	123.86
16	6	102	BCL	C4B-CHC-C1C	-2.07	126.03	130.12
16	I	103	BCL	O2A-CGA-O1A	-2.07	118.38	123.59
22	G	102	CRT	C27-C26-C25	-2.06	116.78	123.22
16	D	101	BCL	CHD-C1D-C2D	2.06	129.81	125.48
22	G	102	CRT	C18-C17-C16	2.06	121.32	118.08
16	8	102	BCL	O2A-CGA-O1A	-2.06	118.40	123.59
16	I	104	BCL	CED-O2D-CGD	2.06	120.59	115.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	M	406	CRT	C8-C7-C9	-2.05	120.05	122.92
16	V	102	BCL	C1C-NC-C4C	-2.05	105.78	106.71
14	G	101	PGV	O03-C19-O04	-2.05	118.41	123.59
22	V	101	CRT	C34-C33-C35	2.05	121.31	118.08
22	4	101	CRT	C34-C33-C35	2.05	121.31	118.08
16	G	103	BCL	C1C-NC-C4C	-2.05	105.78	106.71
16	L	309	BCL	O1D-CGD-CBD	-2.05	120.29	124.48
10	C	402	HEC	O2A-CGA-CBA	2.05	120.61	114.03
16	L	308	BCL	CMD-C2D-C3D	-2.05	122.91	127.61
16	T	102	BCL	C1D-CHD-C4C	-2.05	121.68	126.62
19	O	101	CDL	OB6-CB5-OB7	-2.05	118.76	123.70
14	Z	101	PGV	O03-C19-O04	-2.05	118.43	123.59
16	Y	401	BCL	CAC-C3C-C2C	-2.04	109.15	114.26
16	V	102	BCL	C4D-CHA-C1A	-2.04	118.76	121.25
16	A	101	BCL	CHD-C1D-C2D	2.04	129.76	125.48
16	B	102	BCL	C1C-NC-C4C	-2.04	105.79	106.71
15	7	103	LMT	C1'-C2'-C3'	2.04	114.25	110.00
16	W	101	BCL	C2A-C1A-CHA	-2.04	120.29	123.86
16	1	104	BCL	O2A-CGA-O1A	-2.04	118.44	123.59
16	I	104	BCL	CAC-C3C-C4C	-2.04	108.06	112.58
16	2	101	BCL	C1C-NC-C4C	-2.04	105.79	106.71
16	I	103	BCL	CHD-C1D-C2D	2.04	129.75	125.48
16	5	103	BCL	CHD-C1D-C2D	2.04	129.75	125.48
16	O	105	BCL	C2A-C1A-CHA	-2.04	120.30	123.86
15	I	102	LMT	C2'-C3'-C4'	2.04	114.33	109.68
16	7	104	BCL	O2A-CGA-CBA	2.04	118.29	111.91
16	J	102	BCL	CMD-C2D-C3D	-2.03	122.93	127.61
16	D	102	BCL	C2A-C1A-CHA	-2.03	120.30	123.86
22	V	101	CRT	C8-C7-C6	2.03	121.28	118.08
14	J	101	PGV	C02-O01-C1	-2.03	112.79	117.79
14	3	101	PGV	O01-C1-O02	-2.03	118.80	123.70
16	W	101	BCL	CHC-C1C-NC	2.03	127.32	124.51
22	V	101	CRT	C24-C23-C22	-2.03	120.08	122.92
16	7	104	BCL	CED-O2D-CGD	2.03	120.52	115.94
10	C	401	HEC	O2D-CGD-CBD	2.03	120.54	114.03
14	6	104	PGV	C02-O01-C1	-2.03	112.80	117.79
16	9	102	BCL	CED-O2D-CGD	2.03	120.52	115.94
16	1	104	BCL	C6-C5-C3	-2.02	108.15	113.45
16	J	102	BCL	C1B-CHB-C4A	-2.02	126.11	130.12
16	1	103	BCL	CAA-CBA-CGA	-2.02	107.34	113.25
18	L	306	UQ8	C15-C14-C16	2.02	118.67	115.27
10	C	403	HEC	CMC-C2C-C1C	-2.02	125.36	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	H	301	CDL	OA6-CA5-OA7	-2.02	118.83	123.70
14	T	101	PGV	C02-O01-C1	-2.02	112.83	117.79
16	S	102	BCL	CAA-CBA-CGA	-2.01	107.37	113.25
16	M	403	BCL	O2A-C1-C2	2.01	113.92	108.64
17	M	404	BPH	CMA-C3A-C4A	-2.01	109.97	114.38
22	R	101	CRT	C29-C28-C30	2.01	121.25	118.08
16	1	103	BCL	C11-C12-C13	-2.01	109.43	115.92
16	5	103	BCL	O2A-CGA-O1A	-2.01	118.53	123.59
14	1	102	PGV	C02-O01-C1	-2.01	112.85	117.79
14	V	104	PGV	O03-C19-C20	2.01	118.20	111.91
14	P	102	PGV	O01-C1-O02	-2.01	118.85	123.70
16	F	103	BCL	C1D-CHD-C4C	-2.00	121.79	126.62
16	G	103	BCL	CMD-C2D-C3D	-2.00	123.01	127.61
16	A	101	BCL	C1D-CHD-C4C	-2.00	121.80	126.62

There are no chirality outliers.

All (1783) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
14	C	408	PGV	C04-O12-P-O13
14	L	305	PGV	C03-O11-P-O13
14	H	302	PGV	C03-O11-P-O13
14	H	302	PGV	C04-O12-P-O11
14	H	302	PGV	C04-O12-P-O13
14	H	302	PGV	C04-O12-P-O14
14	H	303	PGV	C04-O12-P-O13
14	H	303	PGV	C04-O12-P-O14
14	H	303	PGV	C2-C1-O01-C02
14	B	103	PGV	C03-O11-P-O13
14	B	103	PGV	C03-O11-P-O14
14	B	103	PGV	C04-O12-P-O11
14	B	103	PGV	C04-O12-P-O14
14	B	104	PGV	C03-O11-P-O12
14	F	101	PGV	C03-O11-P-O13
14	F	101	PGV	C04-O12-P-O13
14	G	101	PGV	C03-O11-P-O13
14	G	101	PGV	O03-C01-C02-O01
14	G	101	PGV	O12-C04-C05-O05
14	G	104	PGV	C03-O11-P-O12
14	G	104	PGV	C03-O11-P-O13
14	G	104	PGV	C03-O11-P-O14
14	I	101	PGV	C03-O11-P-O12

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Mol	Chain	Res	Type	Atoms
14	I	101	PGV	C03-O11-P-O13
14	I	101	PGV	C03-O11-P-O14
14	I	101	PGV	C04-O12-P-O11
14	J	101	PGV	C03-O11-P-O13
14	N	101	PGV	C04-O12-P-O13
14	N	104	PGV	C03-O11-P-O13
14	N	104	PGV	C03-O11-P-O14
14	N	105	PGV	C03-O11-P-O12
14	N	105	PGV	C03-O11-P-O13
14	N	105	PGV	C03-O11-P-O14
14	O	102	PGV	C04-O12-P-O11
14	O	102	PGV	C04-O12-P-O13
14	O	102	PGV	C04-O12-P-O14
14	O	102	PGV	O02-C1-O01-C02
14	P	102	PGV	C03-O11-P-O12
14	P	102	PGV	C03-O11-P-O13
14	P	102	PGV	C03-O11-P-O14
14	P	102	PGV	C04-O12-P-O13
14	P	102	PGV	O04-C19-O03-C01
14	P	102	PGV	C20-C19-O03-C01
14	R	103	PGV	C03-O11-P-O12
14	R	103	PGV	C03-O11-P-O14
14	T	101	PGV	C04-O12-P-O11
14	T	101	PGV	C04-O12-P-O13
14	T	103	PGV	C04-O12-P-O14
14	T	104	PGV	C03-O11-P-O13
14	T	104	PGV	C03-O11-P-O14
14	V	103	PGV	C04-O12-P-O14
14	V	103	PGV	O12-C04-C05-C06
14	V	104	PGV	C03-O11-P-O13
14	V	104	PGV	C03-O11-P-O14
14	X	102	PGV	C2-C1-O01-C02
14	Z	101	PGV	C03-O11-P-O14
14	Z	101	PGV	C04-O12-P-O11
14	Z	101	PGV	C04-O12-P-O13
14	Z	101	PGV	C04-O12-P-O14
14	Z	103	PGV	C03-O11-P-O13
14	Z	104	PGV	C03-O11-P-O14
14	Z	104	PGV	C2-C1-O01-C02
14	1	101	PGV	C03-O11-P-O14
14	1	101	PGV	C04-O12-P-O14
14	1	102	PGV	C04-O12-P-O13

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Mol	Chain	Res	Type	Atoms
14	2	102	PGV	C03-O11-P-O13
14	2	102	PGV	C04-O12-P-O11
14	2	102	PGV	C04-O12-P-O13
14	2	102	PGV	C04-O12-P-O14
14	2	102	PGV	C2-C1-O01-C02
14	2	103	PGV	C03-O11-P-O12
14	2	103	PGV	C03-O11-P-O13
14	2	103	PGV	O12-C04-C05-O05
14	3	101	PGV	C03-O11-P-O13
14	3	101	PGV	C03-O11-P-O14
14	4	103	PGV	C03-O11-P-O12
14	4	103	PGV	C03-O11-P-O13
14	4	103	PGV	C03-O11-P-O14
14	4	103	PGV	O12-C04-C05-O05
14	4	103	PGV	C2-C1-O01-C02
14	6	101	PGV	C03-O11-P-O12
14	6	101	PGV	C03-O11-P-O13
14	6	101	PGV	C03-O11-P-O14
14	6	103	PGV	C04-O12-P-O11
14	6	103	PGV	C04-O12-P-O13
14	6	103	PGV	C04-O12-P-O14
14	6	103	PGV	O12-C04-C05-C06
14	6	103	PGV	O12-C04-C05-O05
14	6	104	PGV	C04-O12-P-O11
14	6	104	PGV	C04-O12-P-O13
14	8	103	PGV	C03-O11-P-O12
14	8	103	PGV	C03-O11-P-O13
14	8	103	PGV	C03-O11-P-O14
14	8	103	PGV	C04-O12-P-O13
14	8	103	PGV	C04-O12-P-O14
14	8	103	PGV	O12-C04-C05-C06
14	8	103	PGV	O02-C1-O01-C02
14	8	103	PGV	C2-C1-O01-C02
14	0	101	PGV	C03-O11-P-O12
14	0	101	PGV	C03-O11-P-O13
14	0	101	PGV	C03-O11-P-O14
14	0	101	PGV	C04-O12-P-O13
14	0	103	PGV	C03-O11-P-O12
14	0	103	PGV	C03-O11-P-O13
14	0	103	PGV	C03-O11-P-O14
14	0	103	PGV	C04-O12-P-O13
14	0	104	PGV	C03-O11-P-O14

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Mol	Chain	Res	Type	Atoms
14	0	104	PGV	C04-O12-P-O14
14	0	104	PGV	C2-C1-O01-C02
15	M	411	LMT	O5B-C1B-O1B-C4'
15	M	411	LMT	C2-C1-O1'-C1'
15	F	102	LMT	C2-C1-O1'-C1'
15	O	103	LMT	C2-C1-O1'-C1'
15	5	101	LMT	C2-C1-O1'-C1'
15	7	101	LMT	O5'-C1'-O1'-C1
16	L	308	BCL	C1A-C2A-CAA-CBA
16	L	308	BCL	C3A-C2A-CAA-CBA
16	L	308	BCL	C4C-C3C-CAC-CBC
16	M	403	BCL	C1A-C2A-CAA-CBA
16	A	101	BCL	C1A-C2A-CAA-CBA
16	A	101	BCL	C4C-C3C-CAC-CBC
16	B	102	BCL	C1A-C2A-CAA-CBA
16	B	102	BCL	C3A-C2A-CAA-CBA
16	B	102	BCL	C2C-C3C-CAC-CBC
16	B	102	BCL	C4C-C3C-CAC-CBC
16	D	101	BCL	C1A-C2A-CAA-CBA
16	D	101	BCL	C3A-C2A-CAA-CBA
16	D	101	BCL	C2C-C3C-CAC-CBC
16	D	101	BCL	C4C-C3C-CAC-CBC
16	E	101	BCL	C2C-C3C-CAC-CBC
16	E	101	BCL	C4C-C3C-CAC-CBC
16	F	103	BCL	C2C-C3C-CAC-CBC
16	F	103	BCL	C4C-C3C-CAC-CBC
16	F	103	BCL	C2-C3-C5-C6
16	F	103	BCL	C4-C3-C5-C6
16	G	103	BCL	C1A-C2A-CAA-CBA
16	G	103	BCL	C2C-C3C-CAC-CBC
16	G	103	BCL	C4C-C3C-CAC-CBC
16	I	103	BCL	C1A-C2A-CAA-CBA
16	I	104	BCL	C1A-C2A-CAA-CBA
16	I	104	BCL	C2C-C3C-CAC-CBC
16	I	104	BCL	C4C-C3C-CAC-CBC
16	J	102	BCL	C2C-C3C-CAC-CBC
16	J	102	BCL	C4C-C3C-CAC-CBC
16	K	101	BCL	C1A-C2A-CAA-CBA
16	K	101	BCL	C3A-C2A-CAA-CBA
16	K	101	BCL	C4C-C3C-CAC-CBC
16	K	101	BCL	C6-C7-C8-C10
16	N	103	BCL	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
16	N	103	BCL	C3A-C2A-CAA-CBA
16	O	105	BCL	C2-C3-C5-C6
16	O	105	BCL	C4-C3-C5-C6
16	O	105	BCL	C11-C10-C8-C9
16	P	101	BCL	C2C-C3C-CAC-CBC
16	P	101	BCL	C4C-C3C-CAC-CBC
16	Q	102	BCL	C2-C3-C5-C6
16	Q	102	BCL	C4-C3-C5-C6
16	R	102	BCL	C1A-C2A-CAA-CBA
16	R	102	BCL	C2C-C3C-CAC-CBC
16	R	102	BCL	C4C-C3C-CAC-CBC
16	S	102	BCL	C1A-C2A-CAA-CBA
16	S	102	BCL	C3A-C2A-CAA-CBA
16	S	102	BCL	C2-C3-C5-C6
16	S	102	BCL	C4-C3-C5-C6
16	S	103	BCL	C2C-C3C-CAC-CBC
16	S	103	BCL	C4C-C3C-CAC-CBC
16	U	101	BCL	C1A-C2A-CAA-CBA
16	U	101	BCL	C2C-C3C-CAC-CBC
16	U	101	BCL	C4C-C3C-CAC-CBC
16	W	101	BCL	C1A-C2A-CAA-CBA
16	W	102	BCL	C2-C3-C5-C6
16	W	102	BCL	C4-C3-C5-C6
16	X	101	BCL	C2C-C3C-CAC-CBC
16	X	101	BCL	C4C-C3C-CAC-CBC
16	Y	401	BCL	C4C-C3C-CAC-CBC
16	Y	401	BCL	CHA-CBD-CGD-O1D
16	Y	401	BCL	CHA-CBD-CGD-O2D
16	Y	402	BCL	C1A-C2A-CAA-CBA
16	Y	402	BCL	C4C-C3C-CAC-CBC
16	Y	402	BCL	C2-C3-C5-C6
16	Y	402	BCL	C4-C3-C5-C6
16	1	103	BCL	C1A-C2A-CAA-CBA
16	1	103	BCL	C3A-C2A-CAA-CBA
16	1	103	BCL	C4-C3-C5-C6
16	2	101	BCL	C2C-C3C-CAC-CBC
16	2	101	BCL	C4C-C3C-CAC-CBC
16	3	102	BCL	C1A-C2A-CAA-CBA
16	3	102	BCL	C3A-C2A-CAA-CBA
16	3	102	BCL	C4C-C3C-CAC-CBC
16	4	102	BCL	C1A-C2A-CAA-CBA
16	5	103	BCL	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
16	5	103	BCL	C3A-C2A-CAA-CBA
16	5	104	BCL	C2C-C3C-CAC-CBC
16	5	104	BCL	C4C-C3C-CAC-CBC
16	6	102	BCL	C2C-C3C-CAC-CBC
16	6	102	BCL	C4C-C3C-CAC-CBC
16	7	104	BCL	C2C-C3C-CAC-CBC
16	7	104	BCL	C4C-C3C-CAC-CBC
16	7	104	BCL	C2-C3-C5-C6
16	7	104	BCL	C4-C3-C5-C6
16	8	102	BCL	C1A-C2A-CAA-CBA
16	8	102	BCL	C3A-C2A-CAA-CBA
16	8	102	BCL	C2C-C3C-CAC-CBC
16	8	102	BCL	C4C-C3C-CAC-CBC
16	9	101	BCL	C4-C3-C5-C6
16	9	102	BCL	C2-C3-C5-C6
16	9	102	BCL	C4-C3-C5-C6
16	9	102	BCL	C11-C10-C8-C9
16	0	102	BCL	C1A-C2A-CAA-CBA
17	L	303	BPH	C1-C2-C3-C4
18	L	306	UQ8	C14-C16-C17-C18
18	L	307	UQ8	C6-C7-C8-C9
19	L	310	CDL	CA2-OA2-PA1-OA3
19	L	310	CDL	CA2-OA2-PA1-OA4
19	L	310	CDL	CA2-OA2-PA1-OA5
19	L	310	CDL	CB3-OB5-PB2-OB3
19	M	402	CDL	CA2-OA2-PA1-OA3
19	M	402	CDL	CA3-OA5-PA1-OA2
19	M	402	CDL	CA3-OA5-PA1-OA3
19	M	402	CDL	CA3-OA5-PA1-OA4
19	M	402	CDL	CB2-OB2-PB2-OB3
19	M	402	CDL	CB2-OB2-PB2-OB4
19	M	402	CDL	CB2-OB2-PB2-OB5
19	M	407	CDL	CA3-OA5-PA1-OA4
19	M	407	CDL	C11-CA5-OA6-CA4
19	M	407	CDL	CB2-OB2-PB2-OB3
19	M	408	CDL	CA3-OA5-PA1-OA3
19	M	408	CDL	C11-CA5-OA6-CA4
19	M	408	CDL	CB3-OB5-PB2-OB3
19	M	409	CDL	CA2-OA2-PA1-OA3
19	M	409	CDL	CB2-OB2-PB2-OB3
19	M	409	CDL	CB2-OB2-PB2-OB4
19	M	409	CDL	CB2-OB2-PB2-OB5

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Mol	Chain	Res	Type	Atoms
19	M	409	CDL	CB3-OB5-PB2-OB3
19	M	409	CDL	C51-CB5-OB6-CB4
19	M	410	CDL	CA3-OA5-PA1-OA2
19	M	410	CDL	CB3-OB5-PB2-OB3
19	H	301	CDL	CA2-OA2-PA1-OA3
19	H	301	CDL	CA3-OA5-PA1-OA3
19	H	301	CDL	OA6-CA4-CA6-OA8
19	H	301	CDL	CB2-OB2-PB2-OB3
19	H	301	CDL	CB2-OB2-PB2-OB4
19	O	101	CDL	CA2-OA2-PA1-OA3
19	O	101	CDL	CA2-OA2-PA1-OA4
19	O	101	CDL	CA2-OA2-PA1-OA5
19	O	101	CDL	CA3-OA5-PA1-OA2
19	O	101	CDL	OA7-CA5-OA6-CA4
19	O	101	CDL	C11-CA5-OA6-CA4
19	O	101	CDL	CB2-OB2-PB2-OB3
19	O	101	CDL	CB3-OB5-PB2-OB3
19	O	101	CDL	C51-CB5-OB6-CB4
19	S	101	CDL	CA2-OA2-PA1-OA3
19	S	101	CDL	CA2-OA2-PA1-OA4
19	S	101	CDL	CA3-OA5-PA1-OA2
19	S	101	CDL	CB2-OB2-PB2-OB4
21	M	405	MQ8	C38-C40-C41-C42
22	M	406	CRT	C2-C1-C4-C5
22	M	406	CRT	C3-C1-C4-C5
22	M	406	CRT	C32-C33-C35-C36
22	M	406	CRT	C34-C33-C35-C36
22	M	406	CRT	C35-C36-C37-C38
22	M	406	CRT	C36-C37-C38-C39
22	M	406	CRT	C36-C37-C38-C40
22	M	406	CRT	C36-C37-C38-O2
22	B	101	CRT	C2-C1-O1-C1M
22	B	101	CRT	C5-C6-C7-C8
22	N	102	CRT	C2-C1-O1-C1M
22	R	101	CRT	C5-C6-C7-C8
22	R	101	CRT	C5-C6-C7-C9
22	R	101	CRT	C27-C28-C30-C31
22	R	101	CRT	C29-C28-C30-C31
22	Y	403	CRT	C2-C1-O1-C1M
22	4	101	CRT	C2-C1-O1-C1M
22	4	101	CRT	C5-C6-C7-C8
22	8	101	CRT	C3-C1-O1-C1M

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Mol	Chain	Res	Type	Atoms
19	M	408	CDL	OA7-CA5-OA6-CA4
15	H	304	LMT	O5B-C1B-O1B-C4'
16	L	302	BCL	CBD-CGD-O2D-CED
16	M	403	BCL	CBD-CGD-O2D-CED
16	Y	401	BCL	CBD-CGD-O2D-CED
14	B	103	PGV	O04-C19-O03-C01
16	Y	401	BCL	O1D-CGD-O2D-CED
14	N	101	PGV	O04-C19-O03-C01
16	Z	102	BCL	O1A-CGA-O2A-C1
14	H	303	PGV	O02-C1-O01-C02
14	B	104	PGV	O02-C1-O01-C02
14	G	104	PGV	O02-C1-O01-C02
14	V	104	PGV	O02-C1-O01-C02
14	X	102	PGV	O02-C1-O01-C02
14	Z	104	PGV	O02-C1-O01-C02
14	2	102	PGV	O02-C1-O01-C02
14	4	103	PGV	O02-C1-O01-C02
14	0	104	PGV	O02-C1-O01-C02
19	M	407	CDL	OA7-CA5-OA6-CA4
19	M	409	CDL	OB7-CB5-OB6-CB4
19	O	101	CDL	OB7-CB5-OB6-CB4
16	B	102	BCL	C3-C5-C6-C7
16	D	101	BCL	C3-C5-C6-C7
16	K	101	BCL	C3-C5-C6-C7
16	O	105	BCL	C3-C5-C6-C7
16	S	102	BCL	C3-C5-C6-C7
16	1	104	BCL	C3-C5-C6-C7
16	3	102	BCL	C3-C5-C6-C7
16	4	102	BCL	C3-C5-C6-C7
16	9	101	BCL	C3-C5-C6-C7
17	M	404	BPH	C3-C5-C6-C7
14	B	103	PGV	C20-C19-O03-C01
14	N	101	PGV	C20-C19-O03-C01
14	B	104	PGV	C2-C1-O01-C02
14	G	104	PGV	C2-C1-O01-C02
14	O	102	PGV	C2-C1-O01-C02
14	V	104	PGV	C2-C1-O01-C02
16	A	101	BCL	C4-C3-C5-C6
16	9	101	BCL	C2-C3-C5-C6
16	3	102	BCL	C2A-CAA-CBA-CGA
16	L	302	BCL	C3-C5-C6-C7
16	O	104	BCL	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
16	T	102	BCL	C3-C5-C6-C7
14	3	101	PGV	C20-C19-O03-C01
16	Z	102	BCL	CBA-CGA-O2A-C1
16	3	102	BCL	CBA-CGA-O2A-C1
19	M	402	CDL	C31-CA7-OA8-CA6
19	M	409	CDL	C71-CB7-OB8-CB6
17	L	303	BPH	C1-C2-C3-C5
14	6	104	PGV	O02-C1-O01-C02
14	Z	103	PGV	O04-C19-O03-C01
16	M	403	BCL	O1A-CGA-O2A-C1
16	3	102	BCL	O1A-CGA-O2A-C1
16	L	302	BCL	O1D-CGD-O2D-CED
14	H	302	PGV	O12-C04-C05-O05
14	H	303	PGV	O12-C04-C05-O05
14	T	101	PGV	O12-C04-C05-O05
14	T	103	PGV	O12-C04-C05-O05
19	M	407	CDL	O1-C1-CA2-OA2
19	M	409	CDL	O1-C1-CB2-OB2
19	S	101	CDL	O1-C1-CB2-OB2
16	I	103	BCL	C3-C5-C6-C7
16	R	102	BCL	C3-C5-C6-C7
16	1	103	BCL	C3-C5-C6-C7
14	J	101	PGV	C20-C19-O03-C01
14	N	104	PGV	C20-C19-O03-C01
14	Z	103	PGV	C20-C19-O03-C01
14	6	104	PGV	C2-C1-O01-C02
19	M	408	CDL	C51-CB5-OB6-CB4
19	M	409	CDL	C11-CA5-OA6-CA4
15	F	102	LMT	C2B-C1B-O1B-C4'
14	O	102	PGV	C11-C10-C9-C8
15	5	101	LMT	C5'-C4'-O1B-C1B
16	M	403	BCL	CBA-CGA-O2A-C1
16	M	403	BCL	O1D-CGD-O2D-CED
14	3	101	PGV	O04-C19-O03-C01
19	M	402	CDL	OA9-CA7-OA8-CA6
16	I	103	BCL	C4-C3-C5-C6
16	R	102	BCL	C4-C3-C5-C6
16	W	101	BCL	C4-C3-C5-C6
16	5	103	BCL	C4-C3-C5-C6
17	M	404	BPH	C4-C3-C5-C6
16	I	103	BCL	C2-C3-C5-C6
16	R	102	BCL	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
16	W	101	BCL	C2-C3-C5-C6
16	1	103	BCL	C2-C3-C5-C6
16	5	103	BCL	C2-C3-C5-C6
17	M	404	BPH	C2-C3-C5-C6
16	L	308	BCL	C2A-CAA-CBA-CGA
14	N	104	PGV	O04-C19-O03-C01
19	M	409	CDL	OB9-CB7-OB8-CB6
15	5	101	LMT	O5'-C1'-O1'-C1
18	L	304	UQ8	C19-C21-C22-C23
16	K	101	BCL	CBD-CGD-O2D-CED
14	0	101	PGV	C2-C1-O01-C02
14	H	303	PGV	O12-C04-C05-C06
14	G	101	PGV	O12-C04-C05-C06
14	T	103	PGV	O12-C04-C05-C06
14	1	102	PGV	O12-C04-C05-C06
19	M	408	CDL	OB7-CB5-OB6-CB4
14	J	101	PGV	O04-C19-O03-C01
14	C	408	PGV	C20-C19-O03-C01
16	K	101	BCL	CBA-CGA-O2A-C1
19	M	402	CDL	C71-CB7-OB8-CB6
19	S	101	CDL	C31-CA7-OA8-CA6
19	S	101	CDL	C71-CB7-OB8-CB6
15	O	103	LMT	C4B-C5B-C6B-O6B
14	G	101	PGV	C26-C27-C28-C29
14	0	104	PGV	C1-C2-C3-C4
16	W	102	BCL	C5-C6-C7-C8
16	X	101	BCL	C5-C6-C7-C8
16	Y	401	BCL	C10-C11-C12-C13
16	Z	102	BCL	C10-C11-C12-C13
14	T	104	PGV	O12-C04-C05-O05
14	1	102	PGV	O12-C04-C05-O05
14	8	103	PGV	O12-C04-C05-O05
14	8	103	PGV	O03-C01-C02-O01
19	L	310	CDL	OA6-CA4-CA6-OA8
16	A	101	BCL	C2-C3-C5-C6
16	L	309	BCL	C11-C10-C8-C9
16	A	101	BCL	C11-C10-C8-C9
16	B	102	BCL	C11-C10-C8-C9
16	F	103	BCL	C6-C7-C8-C9
16	G	103	BCL	C11-C10-C8-C9
16	I	104	BCL	C14-C13-C15-C16
16	J	102	BCL	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
16	N	103	BCL	C11-C12-C13-C14
16	O	104	BCL	C14-C13-C15-C16
16	P	101	BCL	C6-C7-C8-C9
16	P	101	BCL	C11-C10-C8-C9
16	Q	102	BCL	C6-C7-C8-C9
16	T	102	BCL	C6-C7-C8-C9
16	U	101	BCL	C6-C7-C8-C9
16	V	102	BCL	C11-C12-C13-C14
16	3	102	BCL	C11-C10-C8-C9
16	5	103	BCL	C6-C7-C8-C9
16	5	104	BCL	C14-C13-C15-C16
16	7	104	BCL	C11-C10-C8-C9
16	7	104	BCL	C14-C13-C15-C16
16	G	103	BCL	C10-C11-C12-C13
16	N	103	BCL	C15-C16-C17-C18
16	O	105	BCL	C5-C6-C7-C8
16	W	102	BCL	C8-C10-C11-C12
15	F	102	LMT	O5B-C1B-O1B-C4'
14	H	303	PGV	C1-C2-C3-C4
14	P	102	PGV	C1-C2-C3-C4
14	3	101	PGV	C1-C2-C3-C4
19	O	101	CDL	CA7-C31-C32-C33
16	K	101	BCL	O1A-CGA-O2A-C1
19	M	402	CDL	OB9-CB7-OB8-CB6
16	L	308	BCL	CBA-CGA-O2A-C1
16	I	104	BCL	C5-C6-C7-C8
16	U	101	BCL	C8-C10-C11-C12
16	Z	102	BCL	C5-C6-C7-C8
16	1	103	BCL	C5-C6-C7-C8
16	4	102	BCL	C8-C10-C11-C12
16	5	104	BCL	C13-C15-C16-C17
16	8	102	BCL	C10-C11-C12-C13
17	M	404	BPH	C5-C6-C7-C8
14	E	102	PGV	C19-C20-C21-C22
14	V	104	PGV	C19-C20-C21-C22
19	S	101	CDL	OA9-CA7-OA8-CA6
15	I	102	LMT	O5'-C5'-C6'-O6'
16	B	102	BCL	C10-C11-C12-C13
16	N	103	BCL	C5-C6-C7-C8
16	O	104	BCL	C15-C16-C17-C18
16	T	102	BCL	C10-C11-C12-C13
16	V	102	BCL	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
16	1	103	BCL	C10-C11-C12-C13
16	9	101	BCL	C13-C15-C16-C17
14	F	101	PGV	C1-C2-C3-C4
14	J	101	PGV	C1-C2-C3-C4
19	M	409	CDL	CB7-C71-C72-C73
19	H	301	CDL	CB7-C71-C72-C73
19	H	301	CDL	C71-CB7-OB8-CB6
14	Z	103	PGV	C02-C01-O03-C19
14	R	103	PGV	C6-C7-C8-C9
15	I	102	LMT	O5B-C5B-C6B-O6B
15	7	103	LMT	O5B-C5B-C6B-O6B
19	M	409	CDL	OA7-CA5-OA6-CA4
16	Z	102	BCL	C2-C1-O2A-CGA
16	D	102	BCL	C13-C15-C16-C17
16	S	103	BCL	C15-C16-C17-C18
14	G	101	PGV	C1-C2-C3-C4
14	G	104	PGV	C1-C2-C3-C4
14	J	103	PGV	C1-C2-C3-C4
14	J	103	PGV	C19-C20-C21-C22
14	P	102	PGV	C19-C20-C21-C22
14	1	102	PGV	C1-C2-C3-C4
16	J	102	BCL	C5-C6-C7-C8
16	F	103	BCL	C11-C10-C8-C7
16	S	102	BCL	C6-C7-C8-C10
16	T	102	BCL	C11-C10-C8-C7
16	U	101	BCL	C6-C7-C8-C10
16	U	101	BCL	C11-C10-C8-C7
16	Y	401	BCL	C11-C10-C8-C7
16	Z	102	BCL	C11-C10-C8-C7
15	M	411	LMT	O1'-C1-C2-C3
16	F	103	BCL	C2A-CAA-CBA-CGA
16	S	102	BCL	C2A-CAA-CBA-CGA
16	W	101	BCL	C2A-CAA-CBA-CGA
16	M	403	BCL	C5-C6-C7-C8
16	G	103	BCL	C5-C6-C7-C8
16	J	102	BCL	C10-C11-C12-C13
14	C	408	PGV	O04-C19-O03-C01
16	T	102	BCL	C5-C6-C7-C8
18	L	304	UQ8	C14-C16-C17-C18
18	L	306	UQ8	C19-C21-C22-C23
14	O	102	PGV	O12-C04-C05-O05
14	V	103	PGV	O12-C04-C05-O05

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Mol	Chain	Res	Type	Atoms
14	0	101	PGV	O12-C04-C05-O05
19	M	402	CDL	O1-C1-CB2-OB2
19	M	408	CDL	O1-C1-CB2-OB2
14	0	101	PGV	O02-C1-O01-C02
16	O	104	BCL	C8-C10-C11-C12
16	R	102	BCL	C8-C10-C11-C12
16	W	102	BCL	C10-C11-C12-C13
19	S	101	CDL	OB9-CB7-OB8-CB6
16	U	101	BCL	C10-C11-C12-C13
16	Z	102	BCL	C13-C15-C16-C17
16	5	103	BCL	C8-C10-C11-C12
16	9	102	BCL	C10-C11-C12-C13
15	H	304	LMT	O5B-C5B-C6B-O6B
16	O	104	BCL	CBD-CGD-O2D-CED
14	R	103	PGV	C2-C1-O01-C02
19	M	402	CDL	C11-CA5-OA6-CA4
16	D	102	BCL	C8-C10-C11-C12
16	Q	102	BCL	C15-C16-C17-C18
16	R	102	BCL	C5-C6-C7-C8
16	S	102	BCL	C10-C11-C12-C13
16	4	102	BCL	C5-C6-C7-C8
14	L	305	PGV	C03-O11-P-O12
14	H	303	PGV	C04-O12-P-O11
14	B	103	PGV	C03-O11-P-O12
14	J	101	PGV	C03-O11-P-O12
14	N	101	PGV	C03-O11-P-O12
14	N	104	PGV	C03-O11-P-O12
14	T	103	PGV	C03-O11-P-O12
14	T	103	PGV	C04-O12-P-O11
14	T	104	PGV	C03-O11-P-O12
14	V	103	PGV	C04-O12-P-O11
14	V	104	PGV	C03-O11-P-O12
14	Z	101	PGV	C03-O11-P-O12
14	Z	103	PGV	C04-O12-P-O11
14	1	101	PGV	C03-O11-P-O12
14	1	101	PGV	C04-O12-P-O11
14	1	102	PGV	C04-O12-P-O11
14	2	102	PGV	C03-O11-P-O12
14	3	101	PGV	C03-O11-P-O12
14	6	103	PGV	C03-O11-P-O12
14	8	103	PGV	C04-O12-P-O11
14	0	104	PGV	C04-O12-P-O11

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Mol	Chain	Res	Type	Atoms
19	L	310	CDL	CA3-OA5-PA1-OA2
19	L	310	CDL	CB2-OB2-PB2-OB5
19	M	402	CDL	CB3-OB5-PB2-OB2
19	M	407	CDL	CA3-OA5-PA1-OA2
19	M	408	CDL	CA2-OA2-PA1-OA5
19	M	408	CDL	CA3-OA5-PA1-OA2
19	M	408	CDL	CB2-OB2-PB2-OB5
19	M	410	CDL	CB2-OB2-PB2-OB5
19	M	410	CDL	CB3-OB5-PB2-OB2
19	H	301	CDL	CB2-OB2-PB2-OB5
19	O	101	CDL	CB3-OB5-PB2-OB2
19	S	101	CDL	CA2-OA2-PA1-OA5
19	S	101	CDL	CB2-OB2-PB2-OB5
16	N	103	BCL	C3-C5-C6-C7
16	U	101	BCL	C3-C5-C6-C7
16	8	102	BCL	C3-C5-C6-C7
16	N	103	BCL	CBA-CGA-O2A-C1
16	S	103	BCL	CBA-CGA-O2A-C1
15	O	103	LMT	O5B-C5B-C6B-O6B
16	F	103	BCL	C15-C16-C17-C18
16	1	104	BCL	C5-C6-C7-C8
16	7	104	BCL	C5-C6-C7-C8
14	H	302	PGV	O12-C04-C05-C06
14	T	101	PGV	O12-C04-C05-C06
14	0	101	PGV	O12-C04-C05-C06
19	M	402	CDL	CA2-C1-CB2-OB2
19	S	101	CDL	CA2-C1-CB2-OB2
14	R	103	PGV	O02-C1-O01-C02
19	M	402	CDL	OA7-CA5-OA6-CA4
16	D	101	BCL	C4-C3-C5-C6
16	O	104	BCL	C4-C3-C5-C6
15	Q	101	LMT	O5B-C1B-O1B-C4'
14	J	101	PGV	C26-C27-C28-C29
16	W	102	BCL	C2A-CAA-CBA-CGA
16	A	101	BCL	C16-C17-C18-C19
16	9	102	BCL	C3-C5-C6-C7
14	G	101	PGV	C20-C19-O03-C01
14	R	103	PGV	C20-C19-O03-C01
14	1	102	PGV	C20-C19-O03-C01
16	P	101	BCL	CBA-CGA-O2A-C1
15	O	103	LMT	O1'-C1-C2-C3
14	H	303	PGV	C3-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
14	E	102	PGV	C2-C1-O01-C02
19	H	301	CDL	C11-CA5-OA6-CA4
19	S	101	CDL	C51-CB5-OB6-CB4
14	N	104	PGV	C13-C14-C15-C16
14	T	103	PGV	C21-C22-C23-C24
14	V	103	PGV	C7-C8-C9-C10
14	X	102	PGV	C22-C23-C24-C25
14	X	102	PGV	C26-C27-C28-C29
14	1	101	PGV	C7-C8-C9-C10
19	M	407	CDL	C15-C16-C17-C18
19	M	407	CDL	C16-C17-C18-C19
19	O	101	CDL	C18-C19-C20-C21
16	D	102	BCL	C16-C17-C18-C19
16	A	101	BCL	CBA-CGA-O2A-C1
16	7	104	BCL	CBA-CGA-O2A-C1
14	8	103	PGV	C21-C22-C23-C24
14	0	101	PGV	C22-C23-C24-C25
15	7	103	LMT	C2-C3-C4-C5
19	M	407	CDL	C75-C76-C77-C78
19	O	101	CDL	C19-C20-C21-C22
16	W	101	BCL	C8-C10-C11-C12
14	I	101	PGV	C1-C2-C3-C4
14	0	103	PGV	C1-C2-C3-C4
19	O	101	CDL	CB5-C51-C52-C53
14	N	104	PGV	C20-C21-C22-C23
14	P	102	PGV	C20-C21-C22-C23
14	P	103	PGV	C6-C7-C8-C9
14	R	103	PGV	C26-C27-C28-C29
14	8	103	PGV	C4-C5-C6-C7
16	D	101	BCL	C5-C6-C7-C8
19	M	410	CDL	O1-C1-CA2-OA2
14	B	103	PGV	C7-C8-C9-C10
14	N	101	PGV	C26-C27-C28-C29
14	P	102	PGV	C7-C8-C9-C10
19	M	402	CDL	C31-C32-C33-C34
14	2	102	PGV	C1-C2-C3-C4
15	7	102	LMT	C2'-C1'-O1'-C1
14	B	104	PGV	C04-O12-P-O13
14	L	305	PGV	C2-C3-C4-C5
14	J	103	PGV	C4-C5-C6-C7
14	2	102	PGV	C13-C14-C15-C16
19	M	407	CDL	C74-C75-C76-C77

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Mol	Chain	Res	Type	Atoms
16	L	308	BCL	O1A-CGA-O2A-C1
16	N	103	BCL	O1A-CGA-O2A-C1
19	H	301	CDL	OB9-CB7-OB8-CB6
16	O	104	BCL	C16-C17-C18-C19
14	H	302	PGV	C22-C23-C24-C25
14	H	303	PGV	C29-C30-C31-C32
14	V	103	PGV	C22-C23-C24-C25
14	X	102	PGV	C27-C28-C29-C30
14	6	103	PGV	C23-C24-C25-C26
14	6	104	PGV	C25-C26-C27-C28
16	K	101	BCL	C6-C7-C8-C9
17	L	303	BPH	C11-C10-C8-C9
14	T	104	PGV	C19-C20-C21-C22
19	L	310	CDL	CB7-C71-C72-C73
19	M	407	CDL	CB7-C71-C72-C73
14	N	104	PGV	C25-C26-C27-C28
19	M	402	CDL	C12-C13-C14-C15
19	M	407	CDL	C17-C18-C19-C20
16	B	102	BCL	C13-C15-C16-C17
16	K	101	BCL	C15-C16-C17-C18
16	J	102	BCL	C2A-CAA-CBA-CGA
14	J	101	PGV	C3-C4-C5-C6
14	2	103	PGV	C6-C7-C8-C9
22	4	101	CRT	C5-C6-C7-C9
16	6	102	BCL	C3-C5-C6-C7
14	E	102	PGV	O02-C1-O01-C02
14	J	103	PGV	O02-C1-O01-C02
19	S	101	CDL	OB7-CB5-OB6-CB4
16	O	104	BCL	C5-C6-C7-C8
14	J	103	PGV	C2-C1-O01-C02
19	M	410	CDL	C11-CA5-OA6-CA4
14	B	104	PGV	C27-C28-C29-C30
14	N	101	PGV	C3-C4-C5-C6
14	T	104	PGV	C2-C3-C4-C5
14	Z	103	PGV	C22-C23-C24-C25
14	6	101	PGV	C23-C24-C25-C26
19	L	310	CDL	C18-C19-C20-C21
19	M	407	CDL	C11-C12-C13-C14
14	N	104	PGV	C19-C20-C21-C22
14	T	103	PGV	C19-C20-C21-C22
19	M	409	CDL	CB5-C51-C52-C53
14	P	102	PGV	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
14	Z	101	PGV	C21-C22-C23-C24
14	0	104	PGV	C22-C23-C24-C25
19	H	301	CDL	C74-C75-C76-C77
15	7	102	LMT	O5'-C1'-O1'-C1
16	A	101	BCL	C15-C16-C17-C18
14	P	103	PGV	C22-C23-C24-C25
14	R	103	PGV	C5-C6-C7-C8
14	Z	101	PGV	C2-C3-C4-C5
19	O	101	CDL	C36-C37-C38-C39
14	O	102	PGV	C19-C20-C21-C22
14	2	103	PGV	C1-C2-C3-C4
14	8	103	PGV	C1-C2-C3-C4
19	M	409	CDL	CA5-C11-C12-C13
16	2	101	BCL	C5-C6-C7-C8
14	F	101	PGV	C4-C5-C6-C7
14	Z	104	PGV	C26-C27-C28-C29
19	M	402	CDL	C58-C59-C60-C61
19	M	409	CDL	C32-C33-C34-C35
14	0	101	PGV	C20-C19-O03-C01
14	0	104	PGV	C5-C6-C7-C8
16	M	403	BCL	C3A-C2A-CAA-CBA
16	A	101	BCL	C3A-C2A-CAA-CBA
16	F	103	BCL	C3A-C2A-CAA-CBA
16	G	103	BCL	C3A-C2A-CAA-CBA
16	I	103	BCL	C3A-C2A-CAA-CBA
16	J	102	BCL	C3A-C2A-CAA-CBA
16	O	104	BCL	C3A-C2A-CAA-CBA
16	Q	102	BCL	C3A-C2A-CAA-CBA
16	R	102	BCL	C3A-C2A-CAA-CBA
16	U	101	BCL	C3A-C2A-CAA-CBA
16	V	102	BCL	C3A-C2A-CAA-CBA
16	W	101	BCL	C3A-C2A-CAA-CBA
16	Y	402	BCL	C3A-C2A-CAA-CBA
16	Z	102	BCL	C3A-C2A-CAA-CBA
16	4	102	BCL	C3A-C2A-CAA-CBA
16	9	101	BCL	C3A-C2A-CAA-CBA
16	0	102	BCL	C3A-C2A-CAA-CBA
14	J	101	PGV	C25-C26-C27-C28
14	3	101	PGV	C4-C5-C6-C7
14	V	103	PGV	C19-C20-C21-C22
14	1	102	PGV	O04-C19-O03-C01
16	S	103	BCL	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
16	O	104	BCL	C16-C17-C18-C20
14	V	103	PGV	C23-C24-C25-C26
15	7	102	LMT	O5'-C5'-C6'-O6'
19	H	301	CDL	C60-C61-C62-C63
14	H	302	PGV	C19-C20-C21-C22
14	G	104	PGV	C19-C20-C21-C22
14	1	101	PGV	C19-C20-C21-C22
14	V	103	PGV	C26-C27-C28-C29
16	T	102	BCL	C4-C3-C5-C6
16	I	104	BCL	CBA-CGA-O2A-C1
14	N	105	PGV	C2-C1-O01-C02
19	L	310	CDL	C11-CA5-OA6-CA4
19	S	101	CDL	C11-CA5-OA6-CA4
17	M	404	BPH	C1-C2-C3-C5
14	Z	104	PGV	C3-C4-C5-C6
15	M	411	LMT	C2-C3-C4-C5
14	G	101	PGV	O04-C19-O03-C01
16	A	101	BCL	O1A-CGA-O2A-C1
16	P	101	BCL	O1A-CGA-O2A-C1
14	B	103	PGV	O12-C04-C05-O05
15	Q	101	LMT	O5'-C5'-C6'-O6'
16	7	104	BCL	O1A-CGA-O2A-C1
19	M	408	CDL	CA2-C1-CB2-OB2
19	M	410	CDL	CB2-C1-CA2-OA2
14	N	105	PGV	O02-C1-O01-C02
19	H	301	CDL	OA7-CA5-OA6-CA4
19	S	101	CDL	OA7-CA5-OA6-CA4
16	M	403	BCL	C2-C1-O2A-CGA
16	V	102	BCL	C10-C11-C12-C13
14	R	103	PGV	O04-C19-O03-C01
14	Z	103	PGV	C3-C4-C5-C6
19	M	407	CDL	CA5-C11-C12-C13
15	L	301	LMT	O5B-C5B-C6B-O6B
16	W	101	BCL	C15-C16-C17-C18
14	2	103	PGV	C19-C20-C21-C22
16	L	309	BCL	C10-C11-C12-C13
16	D	101	BCL	C2-C3-C5-C6
16	D	102	BCL	C11-C10-C8-C7
16	F	103	BCL	C6-C7-C8-C10
16	I	103	BCL	C12-C13-C15-C16
16	I	104	BCL	C2-C3-C5-C6
16	O	104	BCL	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
16	P	101	BCL	C11-C10-C8-C7
16	T	102	BCL	C2-C3-C5-C6
16	T	102	BCL	C6-C7-C8-C10
16	V	102	BCL	C6-C7-C8-C10
16	Z	102	BCL	C6-C7-C8-C10
16	1	103	BCL	C6-C7-C8-C10
16	5	103	BCL	C11-C10-C8-C7
16	5	104	BCL	C12-C13-C15-C16
16	7	104	BCL	C12-C13-C15-C16
16	I	104	BCL	O1A-CGA-O2A-C1
16	D	102	BCL	C16-C17-C18-C20
16	R	102	BCL	C16-C17-C18-C19
14	F	101	PGV	C11-C10-C9-C8
14	L	305	PGV	O02-C1-O01-C02
14	P	103	PGV	O02-C1-O01-C02
14	6	101	PGV	O02-C1-O01-C02
19	M	410	CDL	OA7-CA5-OA6-CA4
19	M	410	CDL	OB7-CB5-OB6-CB4
19	M	402	CDL	CA7-C31-C32-C33
14	G	104	PGV	C20-C19-O03-C01
16	O	105	BCL	CBA-CGA-O2A-C1
14	0	101	PGV	C27-C28-C29-C30
15	Q	101	LMT	C1-C2-C3-C4
16	G	103	BCL	C2A-CAA-CBA-CGA
16	X	101	BCL	C2A-CAA-CBA-CGA
16	1	104	BCL	C13-C15-C16-C17
15	I	102	LMT	C3'-C4'-O1B-C1B
19	M	402	CDL	C56-C57-C58-C59
14	P	102	PGV	C28-C29-C30-C31
14	6	104	PGV	C1-C2-C3-C4
16	B	102	BCL	C5-C6-C7-C8
16	R	102	BCL	C15-C16-C17-C18
16	9	101	BCL	C8-C10-C11-C12
19	H	301	CDL	C71-C72-C73-C74
14	0	101	PGV	O04-C19-O03-C01
14	L	305	PGV	C20-C19-O03-C01
16	W	102	BCL	CBA-CGA-O2A-C1
16	7	104	BCL	C16-C17-C18-C20
15	I	102	LMT	O5'-C1'-O1'-C1
16	D	101	BCL	C13-C15-C16-C17
14	G	104	PGV	C4-C5-C6-C7
14	L	305	PGV	C2-C1-O01-C02

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Mol	Chain	Res	Type	Atoms
14	F	101	PGV	C2-C1-O01-C02
14	P	102	PGV	C2-C1-O01-C02
14	P	103	PGV	C2-C1-O01-C02
14	6	101	PGV	C2-C1-O01-C02
19	M	410	CDL	C51-CB5-OB6-CB4
14	N	101	PGV	C25-C26-C27-C28
14	0	103	PGV	C3-C4-C5-C6
14	F	101	PGV	O02-C1-O01-C02
16	W	101	BCL	C3-C5-C6-C7
14	Z	104	PGV	C1-C2-C3-C4
14	4	103	PGV	C1-C2-C3-C4
19	M	407	CDL	CA7-C31-C32-C33
14	H	302	PGV	C21-C22-C23-C24
19	O	101	CDL	C35-C36-C37-C38
15	F	102	LMT	C2'-C1'-O1'-C1
19	M	407	CDL	OB6-CB4-CB6-OB8
19	M	409	CDL	OB6-CB4-CB6-OB8
19	O	101	CDL	OB6-CB4-CB6-OB8
15	5	101	LMT	C6-C7-C8-C9
14	Z	104	PGV	C30-C31-C32-C33
16	I	104	BCL	C4-C3-C5-C6
14	N	104	PGV	C1-C2-C3-C4
16	O	104	BCL	C2-C3-C5-C6
16	F	103	BCL	C11-C10-C8-C9
16	I	103	BCL	C14-C13-C15-C16
16	S	103	BCL	C14-C13-C15-C16
16	U	101	BCL	C11-C10-C8-C9
16	V	102	BCL	C6-C7-C8-C9
16	Y	401	BCL	C11-C10-C8-C9
16	Z	102	BCL	C6-C7-C8-C9
16	5	103	BCL	C11-C10-C8-C9
16	K	101	BCL	O1D-CGD-O2D-CED
15	Q	101	LMT	O5B-C5B-C6B-O6B
14	T	103	PGV	C4-C5-C6-C7
14	T	104	PGV	C22-C23-C24-C25
14	G	101	PGV	C21-C22-C23-C24
16	L	309	BCL	C1A-C2A-CAA-CBA
16	F	103	BCL	C1A-C2A-CAA-CBA
16	J	102	BCL	C1A-C2A-CAA-CBA
16	O	104	BCL	C1A-C2A-CAA-CBA
16	Q	102	BCL	C1A-C2A-CAA-CBA
16	V	102	BCL	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
16	Z	102	BCL	C1A-C2A-CAA-CBA
16	A	101	BCL	C16-C17-C18-C20
19	L	310	CDL	OA7-CA5-OA6-CA4
19	L	310	CDL	C51-CB5-OB6-CB4
14	G	104	PGV	C24-C25-C26-C27
14	G	104	PGV	C26-C27-C28-C29
14	J	101	PGV	C28-C29-C30-C31
14	N	101	PGV	C13-C14-C15-C16
19	L	310	CDL	C73-C74-C75-C76
16	K	101	BCL	C13-C15-C16-C17
16	O	105	BCL	C15-C16-C17-C18
14	G	101	PGV	C03-O11-P-O12
14	Z	104	PGV	C03-O11-P-O12
14	H	303	PGV	C24-C25-C26-C27
14	B	103	PGV	C6-C7-C8-C9
14	L	305	PGV	C01-C02-C03-O11
14	O	102	PGV	C01-C02-C03-O11
14	6	104	PGV	C01-C02-C03-O11
19	S	101	CDL	OA5-CA3-CA4-CA6
14	T	101	PGV	C6-C7-C8-C9
19	L	310	CDL	C51-C52-C53-C54
19	H	301	CDL	CA5-C11-C12-C13
14	1	101	PGV	C22-C23-C24-C25
19	L	310	CDL	C76-C77-C78-C79
15	H	304	LMT	O5'-C5'-C6'-O6'
15	F	102	LMT	O5'-C5'-C6'-O6'
17	M	404	BPH	C8-C10-C11-C12
16	R	102	BCL	C16-C17-C18-C20
14	O	102	PGV	C7-C8-C9-C10
19	L	310	CDL	CB5-C51-C52-C53
19	M	407	CDL	CB2-C1-CA2-OA2
16	3	102	BCL	C4-C3-C5-C6
21	M	405	MQ8	C24-C23-C25-C26
10	C	401	HEC	C3D-CAD-CBD-CGD
16	A	101	BCL	C2C-C3C-CAC-CBC
16	K	101	BCL	C2C-C3C-CAC-CBC
16	Y	401	BCL	C2C-C3C-CAC-CBC
16	Y	402	BCL	C2C-C3C-CAC-CBC
16	1	103	BCL	C2C-C3C-CAC-CBC
16	3	102	BCL	C2C-C3C-CAC-CBC
16	O	105	BCL	O1A-CGA-O2A-C1
16	Q	102	BCL	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
14	B	104	PGV	C2-C3-C4-C5
14	F	101	PGV	O03-C01-C02-C03
14	G	101	PGV	O03-C01-C02-C03
14	G	104	PGV	O03-C01-C02-C03
14	J	101	PGV	O03-C01-C02-C03
14	R	103	PGV	O03-C01-C02-C03
14	X	102	PGV	O03-C01-C02-C03
14	2	103	PGV	O03-C01-C02-C03
14	3	101	PGV	O03-C01-C02-C03
14	8	103	PGV	O03-C01-C02-C03
19	M	407	CDL	CA3-CA4-CA6-OA8
19	H	301	CDL	CB3-CB4-CB6-OB8
19	O	101	CDL	CB3-CB4-CB6-OB8
16	D	102	BCL	C15-C16-C17-C18
16	5	103	BCL	C15-C16-C17-C18
16	5	104	BCL	C8-C10-C11-C12
16	7	104	BCL	C15-C16-C17-C18
14	N	101	PGV	C2-C3-C4-C5
16	F	103	BCL	C13-C15-C16-C17
19	L	310	CDL	C19-C20-C21-C22
14	Z	101	PGV	C19-C20-C21-C22
16	W	102	BCL	O1A-CGA-O2A-C1
15	I	102	LMT	C5'-C4'-O1B-C1B
19	M	407	CDL	C19-C20-C21-C22
14	E	102	PGV	C6-C7-C8-C9
14	2	102	PGV	C21-C22-C23-C24
14	8	103	PGV	C24-C25-C26-C27
14	J	103	PGV	C6-C7-C8-C9
14	N	104	PGV	C2-C3-C4-C5
15	O	103	LMT	C3-C4-C5-C6
14	G	104	PGV	O04-C19-O03-C01
16	3	102	BCL	C2-C3-C5-C6
14	0	101	PGV	C1-C2-C3-C4
14	O	102	PGV	C20-C19-O03-C01
19	M	402	CDL	C18-C19-C20-C21
16	L	309	BCL	C8-C10-C11-C12
16	G	103	BCL	C8-C10-C11-C12
14	I	101	PGV	C27-C28-C29-C30
14	2	102	PGV	C01-C02-O01-C1
19	M	407	CDL	CA6-CA4-OA6-CA5
19	O	101	CDL	CA6-CA4-OA6-CA5
15	7	101	LMT	O5'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
16	W	101	BCL	C10-C11-C12-C13
16	O	104	BCL	O1D-CGD-O2D-CED
14	R	103	PGV	C03-O11-P-O13
14	Z	103	PGV	C29-C30-C31-C32
16	D	102	BCL	CBA-CGA-O2A-C1
19	M	409	CDL	C31-CA7-OA8-CA6
14	T	103	PGV	O01-C02-C03-O11
14	6	101	PGV	O01-C02-C03-O11
14	0	101	PGV	O01-C02-C03-O11
16	D	101	BCL	C16-C17-C18-C19
16	W	101	BCL	C16-C17-C18-C19
15	H	304	LMT	O1'-C1-C2-C3
16	S	103	BCL	C10-C11-C12-C13
15	I	102	LMT	C2'-C1'-O1'-C1
15	7	101	LMT	C2'-C1'-O1'-C1
22	B	101	CRT	C3-C1-O1-C1M
22	G	102	CRT	C3-C1-O1-C1M
22	N	102	CRT	C3-C1-O1-C1M
22	R	101	CRT	C2-C1-O1-C1M
22	R	101	CRT	C39-C38-O2-C2M
22	R	101	CRT	C40-C38-O2-C2M
22	V	101	CRT	C3-C1-O1-C1M
22	Y	403	CRT	C3-C1-O1-C1M
22	4	101	CRT	C3-C1-O1-C1M
22	8	101	CRT	C2-C1-O1-C1M
14	L	305	PGV	C5-C6-C7-C8
14	V	103	PGV	O01-C1-C2-C3
14	F	101	PGV	O03-C01-C02-O01
14	N	104	PGV	O03-C01-C02-O01
14	3	101	PGV	C04-O12-P-O13
19	M	409	CDL	C34-C35-C36-C37
16	V	102	BCL	C13-C15-C16-C17
14	L	305	PGV	O04-C19-O03-C01
15	5	101	LMT	C1-C2-C3-C4
22	V	101	CRT	C2-C1-C4-C5
22	V	101	CRT	C3-C1-C4-C5
14	B	104	PGV	C4-C5-C6-C7
14	F	101	PGV	C5-C6-C7-C8
16	P	101	BCL	C4-C3-C5-C6
16	X	101	BCL	C4-C3-C5-C6
18	L	304	UQ8	C12-C11-C9-C10
14	N	101	PGV	C4-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
16	D	101	BCL	C6-C7-C8-C10
16	G	103	BCL	C6-C7-C8-C10
16	G	103	BCL	C11-C10-C8-C7
16	I	103	BCL	C6-C7-C8-C10
16	J	102	BCL	C6-C7-C8-C10
16	O	105	BCL	C6-C7-C8-C10
16	O	105	BCL	C11-C10-C8-C7
16	P	101	BCL	C6-C7-C8-C10
16	Q	102	BCL	C11-C10-C8-C7
16	R	102	BCL	C11-C12-C13-C15
16	S	103	BCL	C12-C13-C15-C16
16	T	102	BCL	C11-C12-C13-C15
16	V	102	BCL	C12-C13-C15-C16
16	X	101	BCL	C6-C7-C8-C10
16	2	101	BCL	C6-C7-C8-C10
16	5	104	BCL	C11-C12-C13-C15
17	M	404	BPH	C11-C10-C8-C7
18	L	304	UQ8	C12-C11-C9-C8
14	G	104	PGV	C5-C6-C7-C8
14	Z	101	PGV	C22-C23-C24-C25
16	M	403	BCL	C6-C7-C8-C9
16	M	403	BCL	C11-C10-C8-C9
16	D	101	BCL	C6-C7-C8-C9
16	E	101	BCL	C11-C10-C8-C9
16	I	103	BCL	C6-C7-C8-C9
16	O	104	BCL	C6-C7-C8-C9
16	O	105	BCL	C6-C7-C8-C9
16	Q	102	BCL	C11-C10-C8-C9
16	R	102	BCL	C14-C13-C15-C16
16	W	101	BCL	C11-C10-C8-C9
16	X	101	BCL	C6-C7-C8-C9
16	2	101	BCL	C6-C7-C8-C9
16	9	101	BCL	C11-C10-C8-C9
16	E	101	BCL	C2A-CAA-CBA-CGA
16	K	101	BCL	C2A-CAA-CBA-CGA
19	M	409	CDL	OA9-CA7-OA8-CA6
22	N	102	CRT	C5-C6-C7-C8
16	R	102	BCL	C13-C15-C16-C17
22	B	101	CRT	C5-C6-C7-C9
14	4	103	PGV	C2-C3-C4-C5
14	P	102	PGV	O02-C1-O01-C02
16	D	102	BCL	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
14	2	103	PGV	C20-C19-O03-C01
14	8	103	PGV	C20-C19-O03-C01
16	X	101	BCL	CBA-CGA-O2A-C1
16	Y	402	BCL	CBA-CGA-O2A-C1
19	L	310	CDL	C31-CA7-OA8-CA6
14	6	103	PGV	C11-C10-C9-C8
16	L	309	BCL	C5-C6-C7-C8
16	D	102	BCL	C5-C6-C7-C8
14	3	101	PGV	C3-C4-C5-C6
16	1	103	BCL	C8-C10-C11-C12
16	9	101	BCL	C5-C6-C7-C8
14	F	101	PGV	C01-C02-C03-O11
14	R	103	PGV	C01-C02-C03-O11
14	2	102	PGV	C01-C02-C03-O11
19	M	408	CDL	OA5-CA3-CA4-CA6
14	T	101	PGV	C7-C8-C9-C10
14	N	101	PGV	C19-C20-C21-C22
14	G	104	PGV	C20-C21-C22-C23
14	Z	101	PGV	C4-C5-C6-C7
16	Q	102	BCL	C10-C11-C12-C13
16	S	103	BCL	C4-C3-C5-C6
21	M	405	MQ8	C29-C28-C30-C31
16	P	101	BCL	C2-C3-C5-C6
16	X	101	BCL	C2-C3-C5-C6
14	N	105	PGV	C4-C5-C6-C7
17	L	303	BPH	C5-C6-C7-C8
19	M	407	CDL	C31-C32-C33-C34
14	J	103	PGV	C2-C3-C4-C5
15	5	101	LMT	C3'-C4'-O1B-C1B
16	U	101	BCL	CBA-CGA-O2A-C1
19	O	101	CDL	C71-CB7-OB8-CB6
19	L	310	CDL	CA5-C11-C12-C13
14	2	103	PGV	C3-C4-C5-C6
17	M	404	BPH	C15-C16-C17-C18
14	J	101	PGV	C22-C23-C24-C25
14	4	103	PGV	C3-C4-C5-C6
15	F	102	LMT	C4-C5-C6-C7
14	E	102	PGV	C3-C4-C5-C6
14	Z	104	PGV	C20-C19-O03-C01
16	2	101	BCL	CBA-CGA-O2A-C1
16	L	302	BCL	C13-C15-C16-C17
14	C	408	PGV	O03-C01-C02-C03

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Mol	Chain	Res	Type	Atoms
14	N	104	PGV	O03-C01-C02-C03
14	V	103	PGV	O03-C01-C02-C03
14	Z	104	PGV	O03-C01-C02-C03
14	4	103	PGV	O03-C01-C02-C03
14	6	103	PGV	O03-C01-C02-C03
19	L	310	CDL	CA3-CA4-CA6-OA8
19	M	402	CDL	CA3-CA4-CA6-OA8
19	M	407	CDL	CB3-CB4-CB6-OB8
19	H	301	CDL	CA3-CA4-CA6-OA8
14	T	101	PGV	C20-C21-C22-C23
14	I	101	PGV	C23-C24-C25-C26
14	1	102	PGV	C20-C21-C22-C23
17	L	303	BPH	O2A-C1-C2-C3
15	5	101	LMT	O5'-C5'-C6'-O6'
16	D	101	BCL	C10-C11-C12-C13
19	M	407	CDL	C34-C35-C36-C37
15	Q	101	LMT	C5-C6-C7-C8
16	I	104	BCL	C8-C10-C11-C12
21	M	405	MQ8	C27-C28-C30-C31
19	H	301	CDL	C11-C12-C13-C14
19	L	310	CDL	C77-C78-C79-C80
16	5	103	BCL	C5-C6-C7-C8
14	F	101	PGV	C03-O11-P-O12
19	H	301	CDL	CA2-OA2-PA1-OA5
14	T	104	PGV	C21-C22-C23-C24
16	V	102	BCL	C3-C5-C6-C7
16	V	102	BCL	C15-C16-C17-C18
14	J	101	PGV	O01-C02-C03-O11
14	6	104	PGV	O01-C02-C03-O11
19	M	410	CDL	OA5-CA3-CA4-OA6
19	L	310	CDL	OB7-CB5-OB6-CB4
14	Z	101	PGV	C20-C19-O03-C01
16	6	102	BCL	C5-C6-C7-C8
14	Z	104	PGV	C25-C26-C27-C28
19	M	402	CDL	C43-C44-C45-C46
16	S	102	BCL	C8-C10-C11-C12
16	S	103	BCL	C3-C5-C6-C7
14	0	104	PGV	C25-C26-C27-C28
14	C	408	PGV	O03-C01-C02-O01
14	J	101	PGV	O03-C01-C02-O01
14	X	102	PGV	O03-C01-C02-O01
14	Z	104	PGV	O03-C01-C02-O01

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Mol	Chain	Res	Type	Atoms
14	2	103	PGV	O03-C01-C02-O01
19	H	301	CDL	OB6-CB4-CB6-OB8
16	X	101	BCL	C8-C10-C11-C12
16	D	101	BCL	C16-C17-C18-C20
14	H	303	PGV	C2-C3-C4-C5
19	M	409	CDL	CA2-C1-CB2-OB2
14	Z	103	PGV	C25-C26-C27-C28
18	L	304	UQ8	C15-C14-C16-C17
16	1	104	BCL	C2-C1-O2A-CGA
16	5	104	BCL	C2-C1-O2A-CGA
16	9	102	BCL	C2-C1-O2A-CGA
16	L	302	BCL	C11-C10-C8-C9
16	G	103	BCL	C6-C7-C8-C9
16	I	104	BCL	C6-C7-C8-C9
16	K	101	BCL	C11-C10-C8-C9
16	N	103	BCL	C11-C10-C8-C9
16	R	102	BCL	C11-C12-C13-C14
16	S	102	BCL	C11-C10-C8-C9
16	X	101	BCL	C11-C10-C8-C9
16	Y	401	BCL	C11-C12-C13-C14
16	4	102	BCL	C14-C13-C15-C16
16	0	102	BCL	C11-C10-C8-C9
14	F	101	PGV	C7-C8-C9-C10
14	1	101	PGV	C2-C3-C4-C5
19	M	402	CDL	C36-C37-C38-C39
14	V	103	PGV	C21-C22-C23-C24
14	G	101	PGV	C05-C04-O12-P
14	I	101	PGV	C02-C03-O11-P
14	J	101	PGV	C02-C03-O11-P
19	O	101	CDL	C1-CA2-OA2-PA1
14	O	102	PGV	O04-C19-O03-C01
19	L	310	CDL	OA9-CA7-OA8-CA6
14	T	103	PGV	C20-C21-C22-C23
14	8	103	PGV	C5-C6-C7-C8
16	I	103	BCL	C2A-CAA-CBA-CGA
16	7	104	BCL	C3-C5-C6-C7
16	I	103	BCL	C13-C15-C16-C17
14	B	103	PGV	C20-C21-C22-C23
14	1	102	PGV	C4-C5-C6-C7
14	2	103	PGV	C5-C6-C7-C8
15	M	411	LMT	C4-C5-C6-C7
15	H	304	LMT	C2-C3-C4-C5

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Mol	Chain	Res	Type	Atoms
14	N	104	PGV	O01-C1-C2-C3
14	3	101	PGV	O01-C1-C2-C3
15	Q	101	LMT	C4-C5-C6-C7
16	O	104	BCL	C4C-C3C-CAC-CBC
16	1	104	BCL	C15-C16-C17-C18
14	V	103	PGV	C3-C4-C5-C6
16	7	104	BCL	C16-C17-C18-C19
14	T	104	PGV	C11-C12-C13-C14
16	2	101	BCL	C8-C10-C11-C12
16	3	102	BCL	C8-C10-C11-C12
14	E	102	PGV	C5-C6-C7-C8
14	6	101	PGV	C24-C25-C26-C27
14	0	103	PGV	C13-C14-C15-C16
14	N	104	PGV	C01-C02-C03-O11
14	N	105	PGV	C01-C02-C03-O11
14	Z	103	PGV	C01-C02-C03-O11
14	Z	104	PGV	C01-C02-C03-O11
19	M	410	CDL	OA5-CA3-CA4-CA6
19	H	301	CDL	OB5-CB3-CB4-CB6
19	O	101	CDL	OB5-CB3-CB4-CB6
16	L	302	BCL	C11-C10-C8-C7
16	L	309	BCL	C11-C10-C8-C7
16	L	309	BCL	C12-C13-C15-C16
16	M	403	BCL	C6-C7-C8-C10
16	M	403	BCL	C11-C10-C8-C7
16	A	101	BCL	C11-C10-C8-C7
16	B	102	BCL	C11-C10-C8-C7
16	E	101	BCL	C6-C7-C8-C10
16	E	101	BCL	C11-C10-C8-C7
16	I	104	BCL	C6-C7-C8-C10
16	J	102	BCL	C11-C10-C8-C7
16	K	101	BCL	C11-C10-C8-C7
16	N	103	BCL	C11-C12-C13-C15
16	O	104	BCL	C6-C7-C8-C10
16	R	102	BCL	C6-C7-C8-C10
16	S	102	BCL	C11-C10-C8-C7
16	V	102	BCL	C11-C12-C13-C15
16	W	101	BCL	C11-C10-C8-C7
16	W	101	BCL	C11-C12-C13-C15
16	X	101	BCL	C11-C10-C8-C7
16	Y	401	BCL	C11-C12-C13-C15
16	Y	402	BCL	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
16	3	102	BCL	C11-C10-C8-C7
16	4	102	BCL	C6-C7-C8-C10
16	5	103	BCL	C6-C7-C8-C10
16	7	104	BCL	C11-C10-C8-C7
16	7	104	BCL	C11-C12-C13-C15
16	9	101	BCL	C11-C10-C8-C7
16	0	102	BCL	C11-C10-C8-C7
17	L	303	BPH	C11-C10-C8-C7
18	L	304	UQ8	C13-C14-C16-C17
14	J	103	PGV	C3-C4-C5-C6
14	Z	104	PGV	C22-C23-C24-C25
17	M	404	BPH	C1-C2-C3-C4
16	W	101	BCL	C16-C17-C18-C20
14	P	102	PGV	C12-C13-C14-C15
16	Y	402	BCL	O1A-CGA-O2A-C1
14	B	104	PGV	C22-C23-C24-C25
16	G	103	BCL	C16-C17-C18-C19
16	5	104	BCL	CBA-CGA-O2A-C1
16	9	102	BCL	CBA-CGA-O2A-C1
14	L	305	PGV	C7-C8-C9-C10
16	L	308	BCL	CAD-CBD-CGD-O2D
16	L	309	BCL	CAD-CBD-CGD-O2D
16	D	102	BCL	CAD-CBD-CGD-O2D
16	O	105	BCL	CAD-CBD-CGD-O2D
16	S	103	BCL	CAD-CBD-CGD-O2D
17	M	404	BPH	CAD-CBD-CGD-O2D
19	L	310	CDL	CA3-CA4-OA6-CA5
15	5	101	LMT	C4'-C5'-C6'-O6'
14	R	103	PGV	C25-C26-C27-C28
14	0	101	PGV	C25-C26-C27-C28
16	I	104	BCL	C15-C16-C17-C18
14	P	102	PGV	C22-C23-C24-C25
16	L	309	BCL	CBA-CGA-O2A-C1
16	D	102	BCL	C4-C3-C5-C6
14	P	102	PGV	C3-C4-C5-C6
16	D	102	BCL	C2-C3-C5-C6
14	T	104	PGV	C28-C29-C30-C31
14	T	101	PGV	O03-C01-C02-C03
14	Z	103	PGV	O03-C01-C02-C03
19	M	408	CDL	CA3-CA4-CA6-OA8
19	M	409	CDL	CB3-CB4-CB6-OB8
19	M	410	CDL	CA3-CA4-CA6-OA8

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Mol	Chain	Res	Type	Atoms
19	M	410	CDL	CB3-CB4-CB6-OB8
15	I	102	LMT	C4B-C5B-C6B-O6B
14	2	102	PGV	C4-C5-C6-C7
14	F	101	PGV	O01-C02-C03-O11
14	N	104	PGV	O01-C02-C03-O11
14	P	103	PGV	O01-C02-C03-O11
14	R	103	PGV	O01-C02-C03-O11
14	Z	103	PGV	O01-C02-C03-O11
19	H	301	CDL	OB5-CB3-CB4-OB6
14	T	101	PGV	O01-C1-C2-C3
14	6	101	PGV	O12-C04-C05-C06
14	Z	104	PGV	O04-C19-O03-C01
14	2	103	PGV	O04-C19-O03-C01
14	8	103	PGV	O04-C19-O03-C01
16	X	101	BCL	O1A-CGA-O2A-C1
16	2	101	BCL	O1A-CGA-O2A-C1
19	O	101	CDL	OB9-CB7-OB8-CB6
16	F	103	BCL	C8-C10-C11-C12
14	O	102	PGV	C13-C14-C15-C16
14	T	104	PGV	C31-C32-C33-C34
14	R	103	PGV	O03-C01-C02-O01
14	V	103	PGV	O03-C01-C02-O01
14	3	101	PGV	O03-C01-C02-O01
14	4	103	PGV	O03-C01-C02-O01
14	6	103	PGV	O03-C01-C02-O01
19	M	402	CDL	OA6-CA4-CA6-OA8
19	S	101	CDL	OB6-CB4-CB6-OB8
14	G	101	PGV	C3-C4-C5-C6
14	P	103	PGV	C2-C3-C4-C5
14	Z	101	PGV	O01-C1-C2-C3
14	Z	103	PGV	C2-C1-O01-C02
15	M	411	LMT	C3'-C4'-O1B-C1B
16	U	101	BCL	O1A-CGA-O2A-C1
14	T	103	PGV	O02-C1-O01-C02
14	Z	101	PGV	O02-C1-O01-C02
14	Z	103	PGV	O02-C1-O01-C02
16	Q	102	BCL	C8-C10-C11-C12
16	S	103	BCL	C6-C7-C8-C9
14	H	302	PGV	C23-C24-C25-C26
14	Z	101	PGV	O04-C19-O03-C01
16	5	104	BCL	O1A-CGA-O2A-C1
16	9	102	BCL	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
14	L	305	PGV	C19-C20-C21-C22
16	I	104	BCL	C10-C11-C12-C13
22	B	101	CRT	C15-C16-C17-C18
19	M	408	CDL	C71-C72-C73-C74
16	9	101	BCL	C1A-C2A-CAA-CBA
14	T	101	PGV	C1-C2-C3-C4
14	T	103	PGV	C1-C2-C3-C4
16	I	104	BCL	C16-C17-C18-C19
16	5	104	BCL	C16-C17-C18-C20
16	B	102	BCL	C8-C10-C11-C12
14	C	408	PGV	C04-O12-P-O11
14	H	302	PGV	C03-O11-P-O12
14	F	101	PGV	C04-O12-P-O11
14	J	101	PGV	C04-O12-P-O11
14	P	102	PGV	C04-O12-P-O11
14	T	101	PGV	C03-O11-P-O12
14	0	101	PGV	C04-O12-P-O11
14	0	103	PGV	C04-O12-P-O11
19	M	407	CDL	CA2-OA2-PA1-OA5
19	M	409	CDL	CA2-OA2-PA1-OA5
19	M	409	CDL	CB3-OB5-PB2-OB2
19	O	101	CDL	CB2-OB2-PB2-OB5
14	T	103	PGV	C22-C23-C24-C25
19	H	301	CDL	C52-C53-C54-C55
14	6	101	PGV	C02-C03-O11-P
19	M	408	CDL	CB4-CB3-OB5-PB2
19	O	101	CDL	CA4-CA3-OA5-PA1
21	M	405	MQ8	C22-C23-C25-C26
14	G	104	PGV	C22-C23-C24-C25
14	O	102	PGV	C26-C27-C28-C29
14	Z	104	PGV	C2-C3-C4-C5
16	L	309	BCL	O1A-CGA-O2A-C1
14	L	305	PGV	C03-O11-P-O14
14	H	302	PGV	C03-O11-P-O14
14	B	103	PGV	C04-O12-P-O13
14	B	104	PGV	C03-O11-P-O14
14	G	101	PGV	C03-O11-P-O14
14	I	101	PGV	C04-O12-P-O14
14	J	101	PGV	C03-O11-P-O14
14	N	101	PGV	C03-O11-P-O13
14	N	101	PGV	C03-O11-P-O14
14	T	103	PGV	C03-O11-P-O13

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Mol	Chain	Res	Type	Atoms
14	T	103	PGV	C04-O12-P-O13
14	Z	103	PGV	C04-O12-P-O13
14	Z	104	PGV	C03-O11-P-O13
14	1	102	PGV	C04-O12-P-O14
14	2	102	PGV	C03-O11-P-O14
14	6	103	PGV	C03-O11-P-O14
14	0	101	PGV	C04-O12-P-O14
19	L	310	CDL	CA3-OA5-PA1-OA3
19	L	310	CDL	CB2-OB2-PB2-OB3
19	M	402	CDL	CB3-OB5-PB2-OB3
19	M	408	CDL	CA2-OA2-PA1-OA3
19	M	408	CDL	CB2-OB2-PB2-OB3
19	M	410	CDL	CA3-OA5-PA1-OA4
19	M	410	CDL	CB2-OB2-PB2-OB3
19	M	410	CDL	CB3-OB5-PB2-OB4
19	H	301	CDL	CA2-OA2-PA1-OA4
19	O	101	CDL	CA3-OA5-PA1-OA4
19	O	101	CDL	CB3-OB5-PB2-OB4
19	S	101	CDL	CA3-OA5-PA1-OA4
16	1	104	BCL	C16-C17-C18-C19
16	5	104	BCL	C16-C17-C18-C19
14	2	102	PGV	C19-C20-C21-C22
14	P	103	PGV	C01-C02-C03-O11
14	6	101	PGV	C01-C02-C03-O11
15	7	103	LMT	C3'-C4'-O1B-C1B
14	H	302	PGV	C5-C6-C7-C8
16	E	101	BCL	C16-C17-C18-C19
19	M	402	CDL	C42-C43-C44-C45
16	L	308	BCL	C3-C5-C6-C7
14	Z	103	PGV	C4-C5-C6-C7
14	1	102	PGV	C19-C20-C21-C22
14	O	102	PGV	C29-C30-C31-C32
14	6	101	PGV	C15-C16-C17-C18
16	1	104	BCL	CBA-CGA-O2A-C1
14	6	101	PGV	C13-C14-C15-C16
19	M	407	CDL	C76-C77-C78-C79
14	L	305	PGV	O01-C02-C03-O11
14	O	102	PGV	O01-C02-C03-O11
14	T	104	PGV	O01-C02-C03-O11
14	Z	104	PGV	O01-C02-C03-O11
16	L	309	BCL	C11-C12-C13-C15
16	D	102	BCL	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
16	O	105	BCL	C2C-C3C-CAC-CBC
16	S	103	BCL	C6-C7-C8-C10
16	T	102	BCL	C2C-C3C-CAC-CBC
16	V	102	BCL	C2C-C3C-CAC-CBC
16	1	104	BCL	C6-C7-C8-C10
16	5	103	BCL	C11-C12-C13-C15
19	O	101	CDL	OB5-CB3-CB4-OB6
14	L	305	PGV	C6-C7-C8-C9
14	N	105	PGV	C7-C8-C9-C10
14	P	102	PGV	C4-C5-C6-C7
19	M	409	CDL	C72-C71-CB7-OB8
16	L	302	BCL	C15-C16-C17-C18
14	Z	101	PGV	C2-C1-O01-C02
14	6	101	PGV	O12-C04-C05-O05
19	M	402	CDL	C38-C39-C40-C41
15	M	411	LMT	C5'-C4'-O1B-C1B
14	N	101	PGV	C1-C2-C3-C4
16	4	102	BCL	C13-C15-C16-C17
14	R	103	PGV	C3-C4-C5-C6
14	G	104	PGV	O03-C01-C02-O01
14	T	101	PGV	O03-C01-C02-O01
14	Z	103	PGV	O03-C01-C02-O01
19	M	407	CDL	OA6-CA4-CA6-OA8
19	M	410	CDL	OA6-CA4-CA6-OA8
16	1	104	BCL	C10-C11-C12-C13
19	M	407	CDL	C78-C79-C80-C81
14	E	102	PGV	C4-C5-C6-C7
14	J	101	PGV	C23-C24-C25-C26
14	J	101	PGV	C27-C28-C29-C30
16	L	309	BCL	C14-C13-C15-C16
16	E	101	BCL	C6-C7-C8-C9
16	R	102	BCL	C6-C7-C8-C9
16	S	102	BCL	C6-C7-C8-C9
16	T	102	BCL	C11-C12-C13-C14
16	W	101	BCL	C11-C12-C13-C14
16	Y	402	BCL	C11-C10-C8-C9
16	Z	102	BCL	C11-C10-C8-C9
16	4	102	BCL	C6-C7-C8-C9
16	8	102	BCL	C6-C7-C8-C9
16	1	104	BCL	O1A-CGA-O2A-C1
14	T	101	PGV	C24-C25-C26-C27
12	C	406	Z41	C27-C28-C29-C30

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Mol	Chain	Res	Type	Atoms
16	B	102	BCL	C15-C16-C17-C18
15	5	101	LMT	C3-C4-C5-C6
14	X	102	PGV	C30-C31-C32-C33
15	H	304	LMT	C4B-C5B-C6B-O6B
22	8	101	CRT	C15-C16-C17-C18
14	N	104	PGV	C11-C10-C9-C8
12	C	406	Z41	C25-C26-C27-C28
16	G	103	BCL	C16-C17-C18-C20
14	T	104	PGV	C23-C24-C25-C26
14	H	303	PGV	C27-C28-C29-C30
19	M	402	CDL	C35-C36-C37-C38
19	M	407	CDL	C32-C33-C34-C35
15	I	102	LMT	C4'-C5'-C6'-O6'
14	T	104	PGV	C9-C10-C11-C12
14	P	102	PGV	C21-C22-C23-C24
14	X	102	PGV	O03-C19-C20-C21
19	M	402	CDL	CA6-CA4-OA6-CA5
19	M	402	CDL	CB6-CB4-OB6-CB5
19	S	101	CDL	CA6-CA4-OA6-CA5
14	T	103	PGV	C01-C02-C03-O11
14	0	101	PGV	C01-C02-C03-O11
16	T	102	BCL	C2A-CAA-CBA-CGA
16	0	102	BCL	C2A-CAA-CBA-CGA
16	A	101	BCL	C2-C1-O2A-CGA
16	I	104	BCL	C2-C1-O2A-CGA
16	O	105	BCL	C2-C1-O2A-CGA
16	P	101	BCL	C2-C1-O2A-CGA
16	S	102	BCL	C2-C1-O2A-CGA
16	T	102	BCL	C2-C1-O2A-CGA
16	5	103	BCL	C2-C1-O2A-CGA
14	V	104	PGV	C21-C22-C23-C24
15	7	103	LMT	C5'-C4'-O1B-C1B
19	L	310	CDL	C72-C73-C74-C75
19	M	407	CDL	C38-C39-C40-C41
16	V	102	BCL	O1D-CGD-O2D-CED
14	G	101	PGV	C13-C14-C15-C16
19	M	409	CDL	C73-C74-C75-C76
14	1	102	PGV	C9-C10-C11-C12
14	0	103	PGV	C9-C10-C11-C12
14	R	103	PGV	C02-C03-O11-P
14	4	103	PGV	C02-C03-O11-P
14	6	103	PGV	C20-C21-C22-C23

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Mol	Chain	Res	Type	Atoms
14	N	105	PGV	O01-C02-C03-O11
14	2	102	PGV	O01-C02-C03-O11
19	M	408	CDL	OA5-CA3-CA4-OA6
19	S	101	CDL	OA5-CA3-CA4-OA6
16	W	102	BCL	C16-C17-C18-C19
16	Z	102	BCL	C16-C17-C18-C19
14	T	101	PGV	C2-C3-C4-C5
10	C	403	HEC	C2A-CAA-CBA-CGA
14	T	103	PGV	C2-C1-O01-C02
16	5	104	BCL	C15-C16-C17-C18
16	U	101	BCL	C2A-CAA-CBA-CGA
22	V	101	CRT	C39-C38-O2-C2M
22	V	101	CRT	C40-C38-O2-C2M
14	1	102	PGV	O03-C01-C02-O01
19	M	410	CDL	OB6-CB4-CB6-OB8
14	Z	104	PGV	C29-C30-C31-C32
16	V	102	BCL	CBD-CGD-O2D-CED
14	L	305	PGV	C04-O12-P-O11
14	H	303	PGV	C03-O11-P-O12
14	E	102	PGV	C03-O11-P-O12
14	N	101	PGV	C04-O12-P-O11
14	N	104	PGV	C04-O12-P-O11
14	V	103	PGV	C03-O11-P-O12
14	Z	103	PGV	C03-O11-P-O12
14	6	101	PGV	C04-O12-P-O11
14	0	104	PGV	C03-O11-P-O12
19	L	310	CDL	CB3-OB5-PB2-OB2
19	M	402	CDL	CA2-OA2-PA1-OA5
19	M	407	CDL	CB2-OB2-PB2-OB5
19	M	408	CDL	CB3-OB5-PB2-OB2
19	H	301	CDL	CB3-OB5-PB2-OB2
19	S	101	CDL	CB3-OB5-PB2-OB2
14	O	102	PGV	C6-C7-C8-C9
14	B	104	PGV	C11-C12-C13-C14
14	0	103	PGV	C2-C3-C4-C5
19	M	410	CDL	C31-C32-C33-C34
16	S	103	BCL	C2-C3-C5-C6
14	J	101	PGV	C11-C12-C13-C14
16	J	102	BCL	C6-C7-C8-C9
16	T	102	BCL	C11-C10-C8-C9
16	V	102	BCL	C14-C13-C15-C16
16	5	103	BCL	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
16	5	104	BCL	C11-C12-C13-C14
16	7	104	BCL	C11-C12-C13-C14
22	M	406	CRT	C20-C21-C22-C23
16	L	302	BCL	C16-C17-C18-C19
14	R	103	PGV	C24-C25-C26-C27
14	6	103	PGV	C24-C25-C26-C27
19	M	402	CDL	C32-C33-C34-C35
15	O	103	LMT	C2-C3-C4-C5
22	V	101	CRT	O1-C1-C4-C5
16	E	101	BCL	C16-C17-C18-C20
16	1	103	BCL	C16-C17-C18-C19
14	O	102	PGV	C02-C03-O11-P
14	6	104	PGV	C05-C04-O12-P
14	2	102	PGV	C14-C15-C16-C17
10	C	402	HEC	CAA-CBA-CGA-O1A
19	M	402	CDL	C44-C45-C46-C47
16	Y	402	BCL	C8-C10-C11-C12
14	N	105	PGV	C1-C2-C3-C4
19	M	402	CDL	C13-C14-C15-C16
14	T	104	PGV	C01-C02-C03-O11
16	P	101	BCL	C5-C6-C7-C8
16	4	102	BCL	C15-C16-C17-C18
14	B	104	PGV	C25-C26-C27-C28
14	0	103	PGV	C12-C13-C14-C15
14	N	104	PGV	O12-C04-C05-O05
14	0	103	PGV	O02-C1-O01-C02
16	9	102	BCL	CBD-CGD-O2D-CED
10	C	403	HEC	CAA-CBA-CGA-O1A
14	Z	101	PGV	O03-C01-C02-O01
16	L	302	BCL	C2A-CAA-CBA-CGA
14	J	101	PGV	C21-C22-C23-C24
14	H	302	PGV	C02-C03-O11-P
14	B	103	PGV	C02-C03-O11-P
16	9	102	BCL	O1D-CGD-O2D-CED
16	Y	402	BCL	C3-C5-C6-C7
14	8	103	PGV	C20-C21-C22-C23
16	I	104	BCL	C3A-C2A-CAA-CBA
10	C	401	HEC	CAA-CBA-CGA-O1A
14	Z	103	PGV	C7-C8-C9-C10
19	L	310	CDL	C80-C81-C82-C83
16	L	308	BCL	C6-C7-C8-C9
16	D	101	BCL	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
16	N	103	BCL	C14-C13-C15-C16
16	O	105	BCL	C14-C13-C15-C16
16	2	101	BCL	C11-C10-C8-C9
17	L	303	BPH	C14-C13-C15-C16
17	M	404	BPH	C11-C10-C8-C9
16	1	104	BCL	C16-C17-C18-C20
16	I	103	BCL	C15-C16-C17-C18
14	B	104	PGV	C04-O12-P-O14
14	N	101	PGV	O03-C01-C02-C03
14	V	104	PGV	O03-C01-C02-C03
14	1	101	PGV	O02-C1-O01-C02
16	L	308	BCL	C16-C17-C18-C19
17	M	404	BPH	O2A-C1-C2-C3
14	I	101	PGV	C4-C5-C6-C7
10	C	403	HEC	CAA-CBA-CGA-O2A
21	M	405	MQ8	C18-C20-C21-C22
14	R	103	PGV	C2-C3-C4-C5
16	8	102	BCL	C8-C10-C11-C12
15	Q	101	LMT	C2B-C1B-O1B-C4'
22	N	102	CRT	C5-C6-C7-C9
19	M	407	CDL	C40-C41-C42-C43
19	M	408	CDL	CA6-CA4-OA6-CA5
16	2	101	BCL	C1A-C2A-CAA-CBA
16	M	403	BCL	C11-C12-C13-C15
16	A	101	BCL	C11-C12-C13-C15
16	O	104	BCL	C11-C10-C8-C7
16	Q	102	BCL	C6-C7-C8-C10
16	S	102	BCL	C12-C13-C15-C16
16	V	102	BCL	C11-C10-C8-C7
16	1	103	BCL	C11-C12-C13-C15
17	L	303	BPH	C11-C12-C13-C15
14	L	305	PGV	C26-C27-C28-C29
19	O	101	CDL	C14-C15-C16-C17
14	P	102	PGV	C11-C12-C13-C14
19	M	407	CDL	C39-C40-C41-C42
10	C	401	HEC	CAA-CBA-CGA-O2A
14	V	103	PGV	O02-C1-C2-C3
16	B	102	BCL	C16-C17-C18-C19
19	M	410	CDL	CB4-CB3-OB5-PB2
19	S	101	CDL	C1-CA2-OA2-PA1
16	M	403	BCL	C2A-CAA-CBA-CGA
14	H	302	PGV	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
14	0	104	PGV	O01-C02-C03-O11
14	T	104	PGV	O03-C19-C20-C21
16	G	103	BCL	C4-C3-C5-C6
16	Z	102	BCL	C4-C3-C5-C6
14	I	101	PGV	C3-C4-C5-C6
14	B	103	PGV	C22-C23-C24-C25
14	0	104	PGV	C4-C5-C6-C7
14	N	101	PGV	O03-C01-C02-O01
16	V	102	BCL	CAA-CBA-CGA-O2A
14	H	302	PGV	C24-C25-C26-C27
22	R	101	CRT	C1-C4-C5-C6
14	0	103	PGV	O01-C1-C2-C3
14	O	102	PGV	O12-C04-C05-C06
14	T	104	PGV	O12-C04-C05-C06
18	L	306	UQ8	C9-C11-C12-C13
10	C	402	HEC	CAA-CBA-CGA-O2A
16	X	101	BCL	C2-C1-O2A-CGA
16	7	104	BCL	C2-C1-O2A-CGA
16	9	101	BCL	C2-C1-O2A-CGA
19	M	409	CDL	C71-C72-C73-C74
14	6	103	PGV	C2-C3-C4-C5
14	6	103	PGV	C05-C04-O12-P
14	B	104	PGV	O03-C19-C20-C21
16	6	102	BCL	O1A-CGA-O2A-C1
14	B	104	PGV	C04-O12-P-O11
16	1	103	BCL	C16-C17-C18-C20
14	B	104	PGV	C24-C25-C26-C27
14	8	103	PGV	C3-C4-C5-C6
16	V	102	BCL	C4-C3-C5-C6
16	5	104	BCL	C4-C3-C5-C6
14	Z	103	PGV	C24-C25-C26-C27
14	0	103	PGV	C2-C1-O01-C02
14	Z	103	PGV	C27-C28-C29-C30
14	B	103	PGV	C9-C10-C11-C12
14	G	101	PGV	C11-C12-C13-C14
14	I	101	PGV	C9-C10-C11-C12
14	Z	101	PGV	C11-C12-C13-C14
14	0	104	PGV	C9-C10-C11-C12
16	I	103	BCL	C5-C6-C7-C8
14	G	101	PGV	O01-C02-C03-O11
19	M	407	CDL	OA5-CA3-CA4-OA6
14	0	104	PGV	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
16	Y	402	BCL	C2A-CAA-CBA-CGA
16	3	102	BCL	C16-C17-C18-C19
14	J	101	PGV	C01-C02-C03-O11
14	0	104	PGV	C01-C02-C03-O11
16	L	302	BCL	C4-C3-C5-C6
16	K	101	BCL	C4-C3-C5-C6
16	Z	102	BCL	C2-C3-C5-C6
14	0	103	PGV	C22-C23-C24-C25
16	I	104	BCL	CAA-CBA-CGA-O2A
16	6	102	BCL	CBA-CGA-O2A-C1
14	T	104	PGV	C24-C25-C26-C27
14	O	102	PGV	O01-C1-C2-C3
14	2	103	PGV	O03-C19-C20-C21
16	5	104	BCL	CAA-CBA-CGA-O2A
16	N	103	BCL	C16-C17-C18-C19
14	1	101	PGV	C2-C1-O01-C02
19	M	409	CDL	C13-C14-C15-C16
14	H	302	PGV	C20-C19-O03-C01
14	1	101	PGV	O01-C1-C2-C3
16	J	102	BCL	CAA-CBA-CGA-O2A
16	1	104	BCL	C4-C3-C5-C6
14	E	102	PGV	C04-O12-P-O11
14	X	102	PGV	C03-O11-P-O12
14	F	101	PGV	O01-C1-C2-C3
19	M	402	CDL	C72-C71-CB7-OB8
16	L	309	BCL	C11-C12-C13-C14
16	D	102	BCL	C11-C10-C8-C9
16	S	102	BCL	C14-C13-C15-C16
16	V	102	BCL	C11-C10-C8-C9
16	1	103	BCL	C11-C12-C13-C14
16	1	104	BCL	C6-C7-C8-C9
16	1	104	BCL	C14-C13-C15-C16
14	G	101	PGV	C28-C29-C30-C31
16	2	101	BCL	C3A-C2A-CAA-CBA
14	B	103	PGV	C11-C12-C13-C14
14	P	103	PGV	C11-C12-C13-C14
14	R	103	PGV	C9-C10-C11-C12
16	W	102	BCL	CAD-CBD-CGD-O2D
16	5	104	BCL	CAD-CBD-CGD-O2D
16	9	102	BCL	CAD-CBD-CGD-O2D
19	M	408	CDL	CA3-CA4-OA6-CA5
16	9	102	BCL	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
14	B	103	PGV	O02-C1-O01-C02
14	T	104	PGV	O02-C1-O01-C02
16	O	105	BCL	CAA-CBA-CGA-O2A
16	Z	102	BCL	CAA-CBA-CGA-O2A
14	O	102	PGV	C3-C4-C5-C6
19	S	101	CDL	C71-C72-C73-C74
16	G	103	BCL	C2-C3-C5-C6
16	V	102	BCL	C2-C3-C5-C6
16	1	104	BCL	CAA-CBA-CGA-O2A
22	B	101	CRT	C15-C16-C17-C19
14	F	101	PGV	C9-C10-C11-C12
14	G	104	PGV	C11-C12-C13-C14
14	G	104	PGV	C11-C10-C9-C8
19	S	101	CDL	CB3-CB4-CB6-OB8
19	O	101	CDL	OA5-CA3-CA4-OA6
14	0	101	PGV	O03-C19-C20-C21
14	R	103	PGV	C1-C2-C3-C4
12	C	406	Z41	C7-C8-C9-C10
16	5	103	BCL	O2A-C1-C2-C3
16	Y	401	BCL	C2A-CAA-CBA-CGA
14	I	101	PGV	C14-C15-C16-C17
14	Z	103	PGV	O03-C19-C20-C21
16	W	102	BCL	CAA-CBA-CGA-O2A
19	H	301	CDL	C59-C60-C61-C62
14	1	101	PGV	C9-C10-C11-C12
16	M	403	BCL	CHA-CBD-CGD-O1D
16	M	403	BCL	CHA-CBD-CGD-O2D
16	S	102	BCL	CHA-CBD-CGD-O1D
16	S	102	BCL	CHA-CBD-CGD-O2D
15	H	305	LMT	O1'-C1-C2-C3
12	C	406	Z41	C15-C16-O2-C17
14	V	104	PGV	C01-C02-C03-O11
16	3	102	BCL	C15-C16-C17-C18
14	G	104	PGV	C23-C24-C25-C26
15	5	101	LMT	C4-C5-C6-C7
14	L	305	PGV	O03-C01-C02-O01
14	H	303	PGV	O03-C01-C02-O01
14	I	101	PGV	O03-C01-C02-O01
14	J	101	PGV	C30-C31-C32-C33
16	D	102	BCL	CAA-CBA-CGA-O2A
16	9	102	BCL	CAA-CBA-CGA-O2A
10	C	404	HEC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
14	2	102	PGV	O12-C04-C05-O05
16	L	309	BCL	C6-C7-C8-C10
16	N	103	BCL	C11-C10-C8-C7
16	W	102	BCL	C6-C7-C8-C10
16	9	102	BCL	C11-C10-C8-C7
14	6	103	PGV	O02-C1-O01-C02
14	I	101	PGV	O03-C19-C20-C21
16	M	403	BCL	C11-C12-C13-C14
16	A	101	BCL	C11-C12-C13-C14
16	D	102	BCL	C6-C7-C8-C9
16	Y	401	BCL	C6-C7-C8-C9
16	1	103	BCL	C6-C7-C8-C9
22	M	406	CRT	C25-C26-C27-C28
14	H	302	PGV	O04-C19-O03-C01
16	6	102	BCL	C2A-CAA-CBA-CGA
14	0	101	PGV	O04-C19-C20-C21
14	2	103	PGV	C20-C21-C22-C23
22	M	406	CRT	O1-C1-C4-C5
19	L	310	CDL	C52-C51-CB5-OB6
14	N	104	PGV	C5-C6-C7-C8
17	M	404	BPH	C2C-C3C-CAC-CBC
14	N	104	PGV	O02-C1-C2-C3
14	V	103	PGV	C04-C05-C06-O06
14	O	102	PGV	O02-C1-C2-C3
14	3	101	PGV	O02-C1-C2-C3
22	8	101	CRT	C15-C16-C17-C19
16	P	101	BCL	C1A-C2A-CAA-CBA
14	F	101	PGV	O02-C1-C2-C3
14	B	103	PGV	C2-C1-O01-C02
14	T	104	PGV	C2-C1-O01-C02
14	P	102	PGV	C26-C27-C28-C29
14	2	103	PGV	O04-C19-C20-C21
16	O	105	BCL	CAA-CBA-CGA-O1A
16	5	104	BCL	CAA-CBA-CGA-O1A
14	Z	101	PGV	O03-C01-C02-C03
14	1	101	PGV	C28-C29-C30-C31
14	G	101	PGV	C4-C5-C6-C7
16	J	102	BCL	CAA-CBA-CGA-O1A
14	B	103	PGV	C21-C22-C23-C24
14	H	303	PGV	C28-C29-C30-C31
14	L	305	PGV	C04-O12-P-O13
14	H	303	PGV	C03-O11-P-O13

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Mol	Chain	Res	Type	Atoms
14	N	104	PGV	C04-O12-P-O13
14	X	102	PGV	C03-O11-P-O13
14	6	101	PGV	C04-O12-P-O13
14	0	104	PGV	C03-O11-P-O13
19	M	408	CDL	CA3-OA5-PA1-OA4
19	M	408	CDL	CB3-OB5-PB2-OB4
19	H	301	CDL	CA3-OA5-PA1-OA4
19	H	301	CDL	CB3-OB5-PB2-OB3
19	S	101	CDL	CB3-OB5-PB2-OB3
16	Y	401	BCL	C16-C17-C18-C20
19	M	407	CDL	C80-C81-C82-C83
14	Z	103	PGV	O04-C19-C20-C21
14	1	101	PGV	O02-C1-C2-C3
16	9	102	BCL	CAA-CBA-CGA-O1A
19	M	402	CDL	C72-C71-CB7-OB9
16	N	103	BCL	C8-C10-C11-C12
19	M	409	CDL	OA5-CA3-CA4-CA6
14	B	103	PGV	C4-C5-C6-C7
14	Z	101	PGV	C23-C24-C25-C26
16	1	104	BCL	CAA-CBA-CGA-O1A
14	Z	104	PGV	O03-C19-C20-C21
16	Q	102	BCL	CAA-CBA-CGA-O2A
14	V	103	PGV	C4-C5-C6-C7
16	W	102	BCL	CAA-CBA-CGA-O1A
16	Z	102	BCL	CAA-CBA-CGA-O1A
14	B	103	PGV	O01-C1-C2-C3
14	B	103	PGV	C5-C6-C7-C8
14	T	104	PGV	C20-C21-C22-C23
16	W	101	BCL	CAD-CBD-CGD-O1D
16	1	103	BCL	CAD-CBD-CGD-O1D
14	T	103	PGV	C23-C24-C25-C26
16	L	309	BCL	C6-C7-C8-C9
16	5	104	BCL	C6-C7-C8-C9
14	X	102	PGV	C28-C29-C30-C31
19	M	407	CDL	C71-C72-C73-C74
10	C	404	HEC	CAA-CBA-CGA-O2A
16	D	102	BCL	CAA-CBA-CGA-O1A
19	L	310	CDL	C17-C18-C19-C20
16	L	308	BCL	CAA-CBA-CGA-O2A
19	M	407	CDL	C72-C71-CB7-OB8
14	Z	101	PGV	C6-C7-C8-C9
14	6	104	PGV	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
19	M	407	CDL	C35-C36-C37-C38
15	O	103	LMT	O5B-C1B-O1B-C4'
14	4	103	PGV	O01-C1-C2-C3
10	C	401	HEC	CAD-CBD-CGD-O1D
14	4	103	PGV	C19-C20-C21-C22
16	L	302	BCL	C2-C3-C5-C6
16	A	101	BCL	C6-C7-C8-C10
16	F	103	BCL	C11-C12-C13-C15
16	I	104	BCL	C12-C13-C15-C16
16	O	104	BCL	C2C-C3C-CAC-CBC
16	W	102	BCL	C11-C12-C13-C15
16	Y	401	BCL	C6-C7-C8-C10
16	Z	102	BCL	C2C-C3C-CAC-CBC
16	5	104	BCL	C2-C3-C5-C6
16	7	104	BCL	C6-C7-C8-C10
16	8	102	BCL	C6-C7-C8-C10
16	L	308	BCL	CAA-CBA-CGA-O1A
14	N	105	PGV	O01-C1-C2-C3
14	P	102	PGV	O01-C1-C2-C3
14	T	103	PGV	O01-C1-C2-C3
19	M	402	CDL	C12-C11-CA5-OA6
14	0	104	PGV	C20-C21-C22-C23
16	L	308	BCL	C15-C16-C17-C18
14	N	105	PGV	C5-C6-C7-C8
15	7	101	LMT	C2B-C1B-O1B-C4'
16	L	309	BCL	C15-C16-C17-C18
14	4	103	PGV	O02-C1-C2-C3
14	G	104	PGV	O01-C1-C2-C3
14	N	101	PGV	O01-C1-C2-C3
16	N	103	BCL	C13-C15-C16-C17
14	I	101	PGV	O04-C19-C20-C21
14	Z	104	PGV	O04-C19-C20-C21
19	L	310	CDL	C52-C51-CB5-OB7
14	N	105	PGV	C9-C10-C11-C12
16	K	101	BCL	C5-C6-C7-C8
14	4	103	PGV	C23-C24-C25-C26
14	J	101	PGV	O03-C19-C20-C21
10	C	401	HEC	CAD-CBD-CGD-O2D

There are no ring outliers.

127 monomers are involved in 616 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	P	102	PGV	5	0
14	I	101	PGV	5	0
14	Z	104	PGV	7	0
14	F	101	PGV	2	0
14	8	103	PGV	7	0
16	T	102	BCL	7	0
16	5	104	BCL	6	0
15	7	101	LMT	5	0
18	L	306	UQ8	6	0
19	M	407	CDL	4	0
19	O	101	CDL	6	0
10	C	401	HEC	10	0
16	O	105	BCL	6	0
14	6	101	PGV	3	0
22	4	101	CRT	10	0
16	7	104	BCL	3	0
14	0	103	PGV	4	0
19	M	402	CDL	9	0
14	T	101	PGV	2	0
18	L	304	UQ8	3	0
19	M	408	CDL	2	0
16	I	104	BCL	13	0
14	B	104	PGV	9	0
15	5	101	LMT	3	0
22	R	101	CRT	8	0
14	4	103	PGV	3	0
19	L	310	CDL	8	0
22	N	102	CRT	13	0
14	P	103	PGV	3	0
14	2	102	PGV	4	0
15	5	102	LMT	1	0
19	S	101	CDL	5	0
16	W	102	BCL	2	0
15	7	102	LMT	2	0
16	Z	102	BCL	8	0
16	Y	401	BCL	6	0
14	0	101	PGV	4	0
16	X	101	BCL	5	0
21	M	405	MQ8	3	0
14	R	103	PGV	5	0
22	M	406	CRT	8	0
14	1	102	PGV	5	0
15	O	103	LMT	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
10	C	404	HEC	2	0
14	G	104	PGV	2	0
14	T	104	PGV	4	0
16	K	101	BCL	8	0
14	H	302	PGV	1	0
14	6	103	PGV	2	0
14	C	408	PGV	6	0
16	N	103	BCL	5	0
14	O	102	PGV	7	0
18	L	307	UQ8	3	0
16	E	101	BCL	9	0
13	C	407	PLM	1	0
16	0	102	BCL	8	0
15	L	301	LMT	3	0
14	V	103	PGV	3	0
16	R	102	BCL	9	0
16	8	102	BCL	10	0
16	I	103	BCL	6	0
14	6	104	PGV	3	0
10	C	403	HEC	3	0
22	B	101	CRT	7	0
16	1	103	BCL	10	0
22	8	101	CRT	8	0
14	E	102	PGV	2	0
16	5	103	BCL	13	0
15	I	102	LMT	3	0
16	M	403	BCL	6	0
14	3	101	PGV	3	0
16	G	103	BCL	11	0
14	2	103	PGV	2	0
16	Q	102	BCL	7	0
16	D	101	BCL	9	0
14	1	101	PGV	9	0
16	6	102	BCL	8	0
17	M	404	BPH	7	0
16	S	103	BCL	8	0
22	G	102	CRT	10	0
14	X	102	PGV	2	0
16	S	102	BCL	12	0
16	3	102	BCL	6	0
16	9	101	BCL	11	0
16	V	102	BCL	8	0

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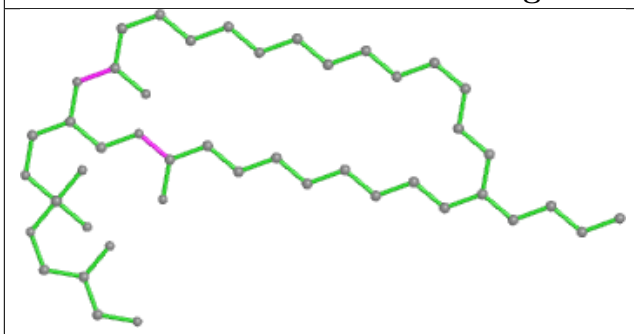
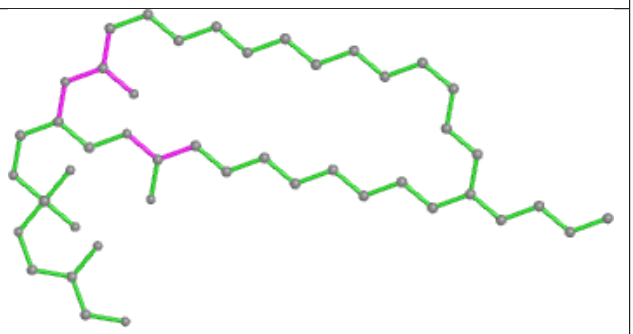
Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	L	305	PGV	6	0
19	M	409	CDL	7	0
15	Q	101	LMT	2	0
14	J	103	PGV	2	0
16	L	302	BCL	4	0
22	V	101	CRT	8	0
22	Y	403	CRT	8	0
16	9	102	BCL	4	0
14	B	103	PGV	5	0
14	G	101	PGV	7	0
15	M	411	LMT	1	0
16	1	104	BCL	5	0
15	F	102	LMT	3	0
16	F	103	BCL	5	0
16	D	102	BCL	7	0
16	L	309	BCL	7	0
16	2	101	BCL	10	0
16	W	101	BCL	12	0
14	N	104	PGV	4	0
10	C	402	HEC	1	0
14	J	101	PGV	7	0
19	H	301	CDL	5	0
16	B	102	BCL	8	0
15	7	103	LMT	2	0
16	L	308	BCL	5	0
16	A	101	BCL	5	0
14	V	104	PGV	2	0
16	4	102	BCL	9	0
14	Z	103	PGV	3	0
16	P	101	BCL	9	0
17	L	303	BPH	8	0
16	U	101	BCL	4	0
16	J	102	BCL	10	0
14	T	103	PGV	3	0
16	Y	402	BCL	3	0
14	N	101	PGV	2	0
19	M	410	CDL	5	0
15	H	304	LMT	4	0
14	H	303	PGV	5	0
14	0	104	PGV	2	0
14	Z	101	PGV	2	0
16	O	104	BCL	7	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

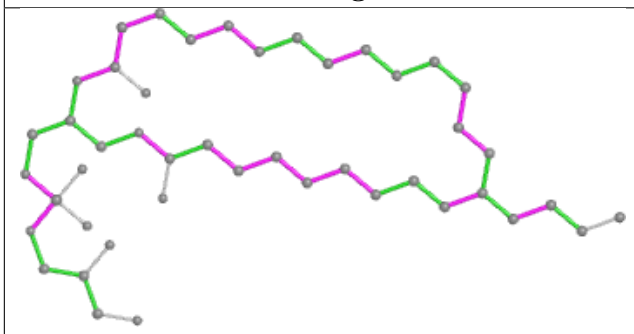
Ligand PGV P 102



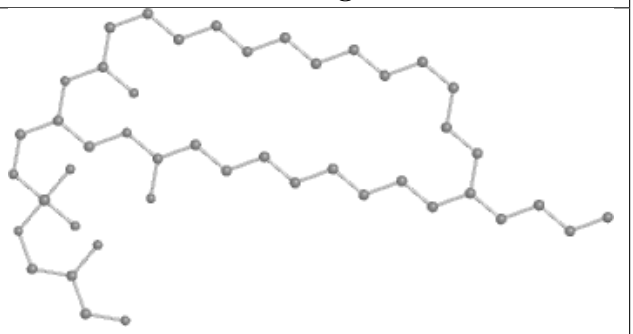
Bond lengths



Bond angles

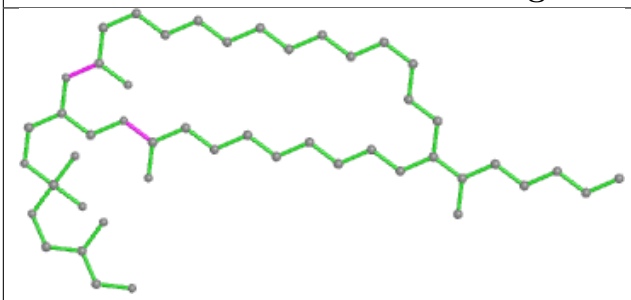


Torsions

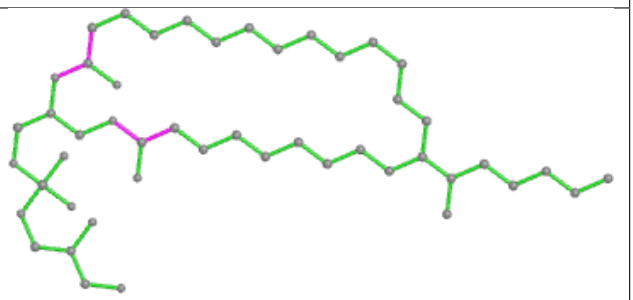


Rings

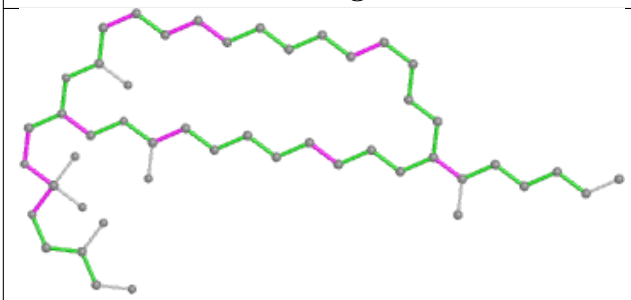
Ligand PGV I 101



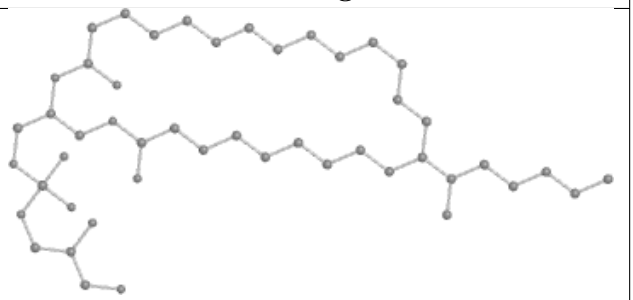
Bond lengths



Bond angles

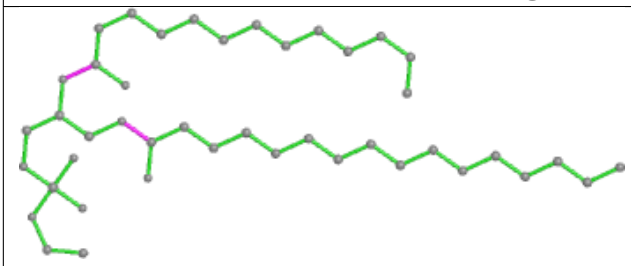


Torsions

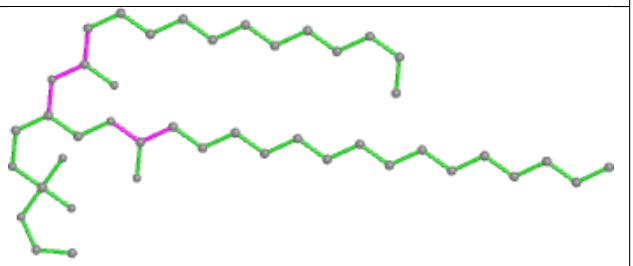


Rings

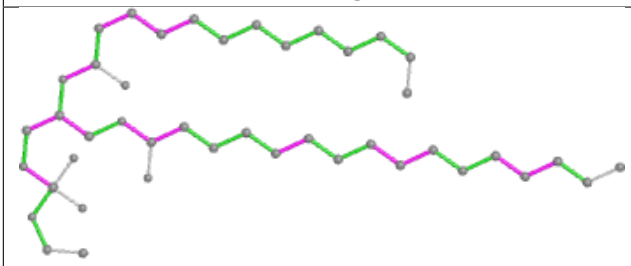
Ligand PGV Z 104



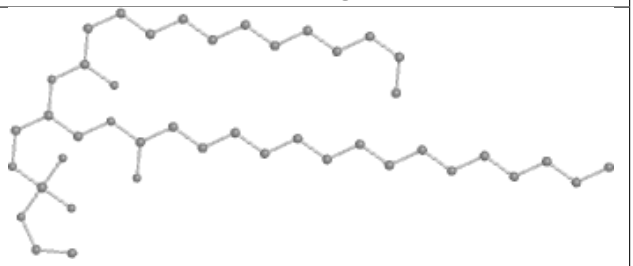
Bond lengths



Bond angles

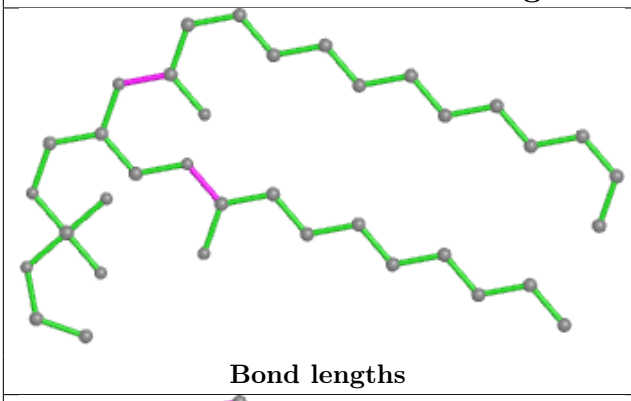


Torsions

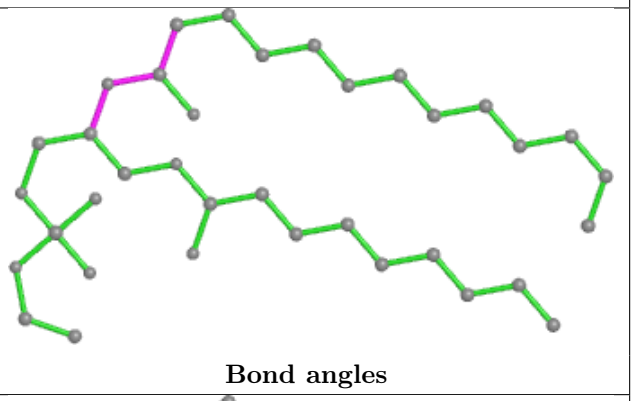


Rings

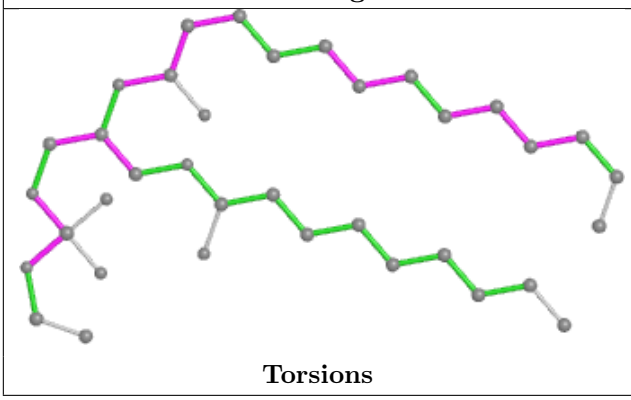
Ligand PGV F 101



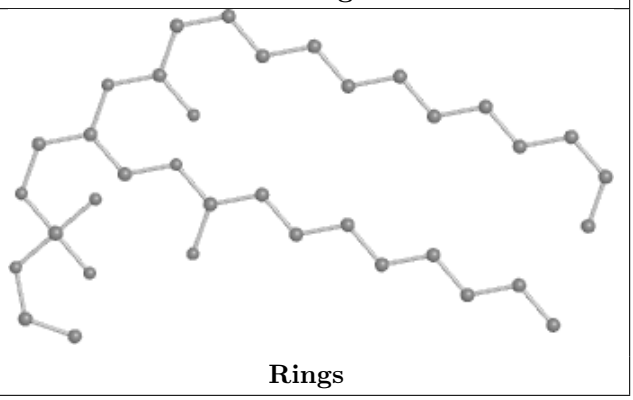
Bond lengths



Bond angles

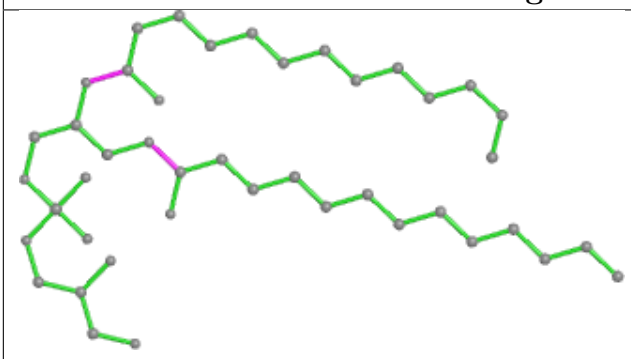


Torsions

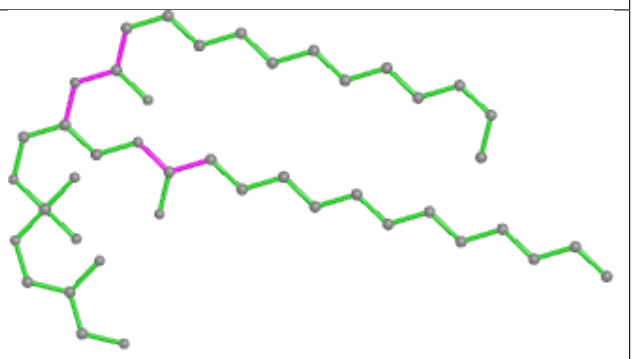


Rings

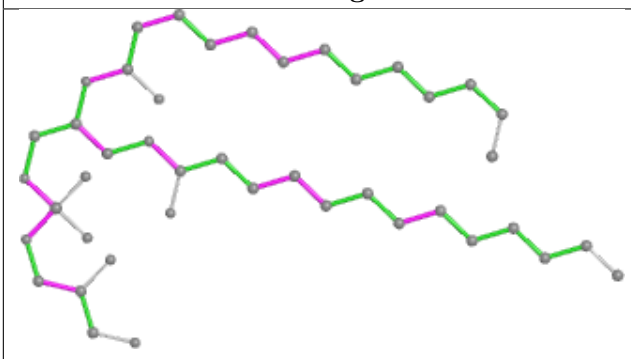
Ligand PGV 8 103



Bond lengths



Bond angles



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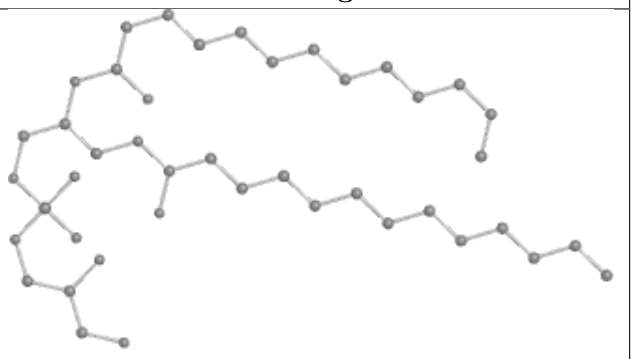
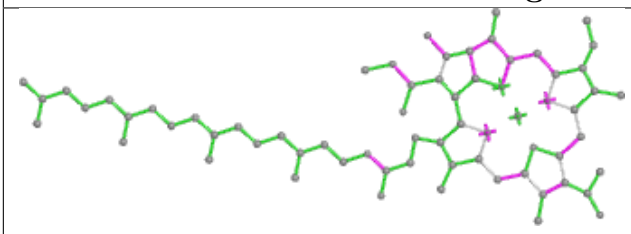


Rings

Ligand BCL T 102



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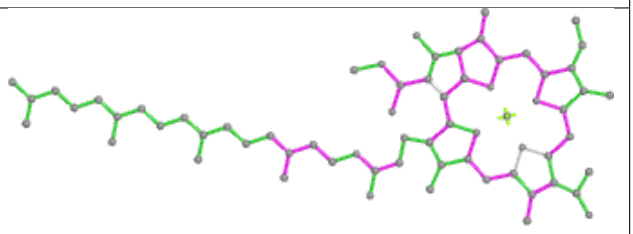
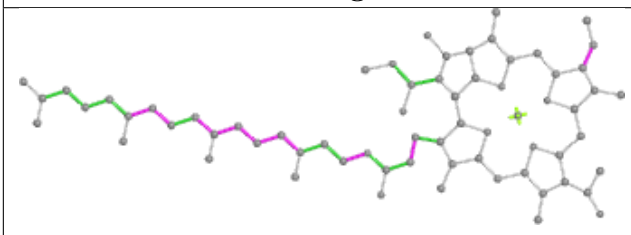


Bond angles



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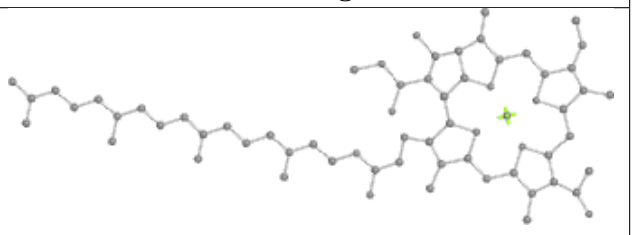
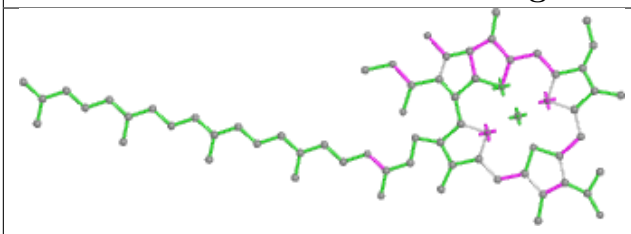


Rings

Ligand BCL 5 104



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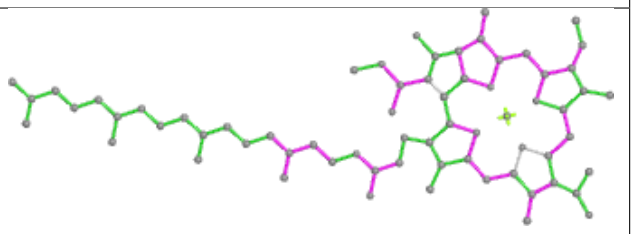
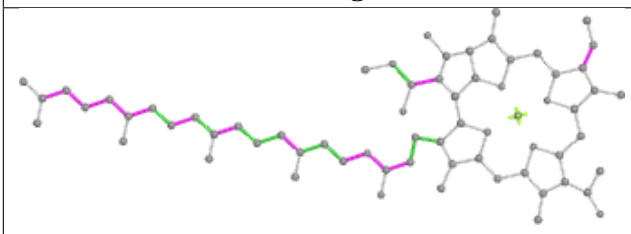


Bond angles



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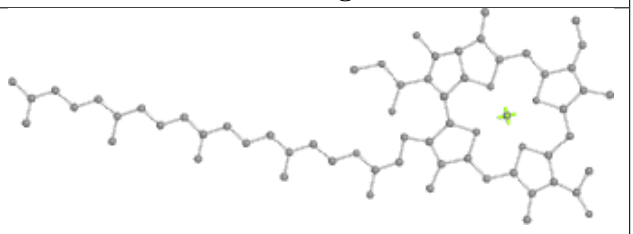
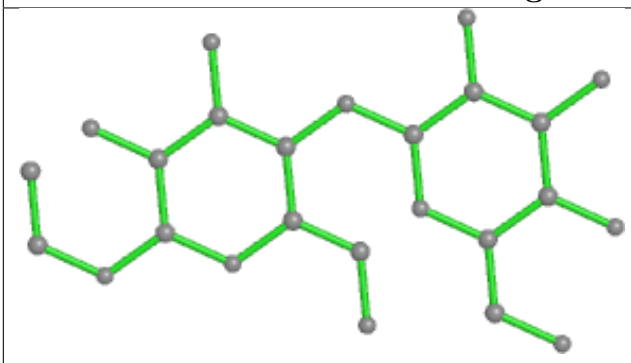


Rings

Ligand LMT 7 101



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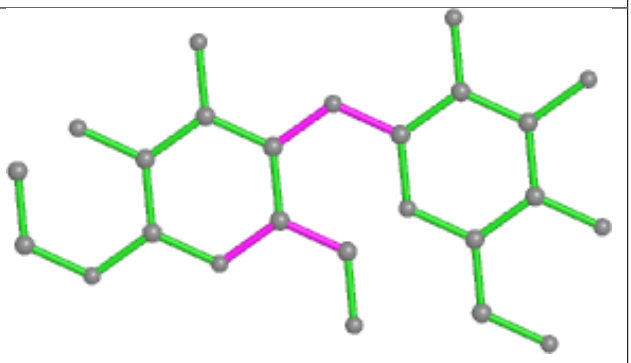
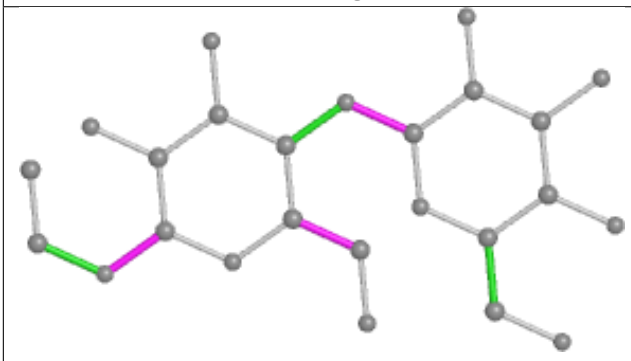


Bond angles



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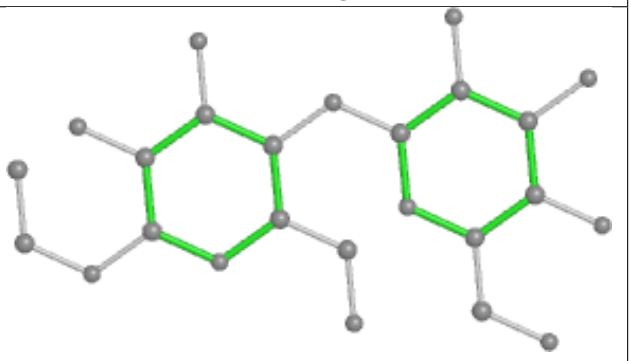
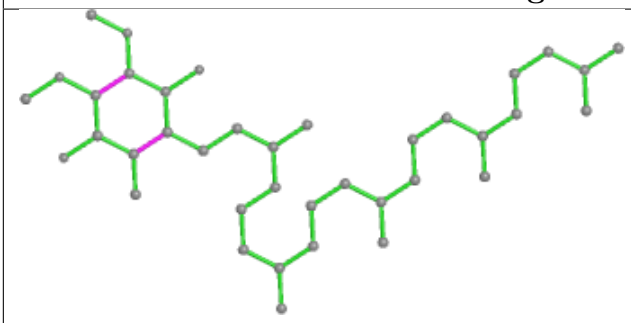


Rings

Ligand UQ8 L 306



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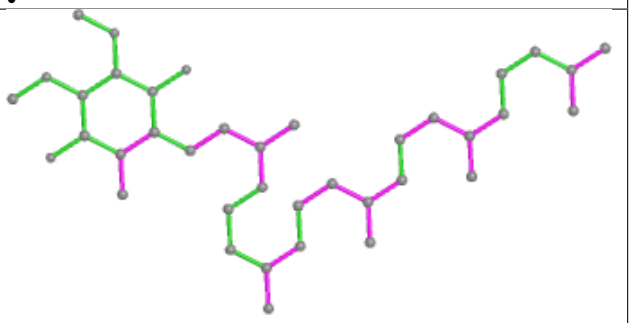
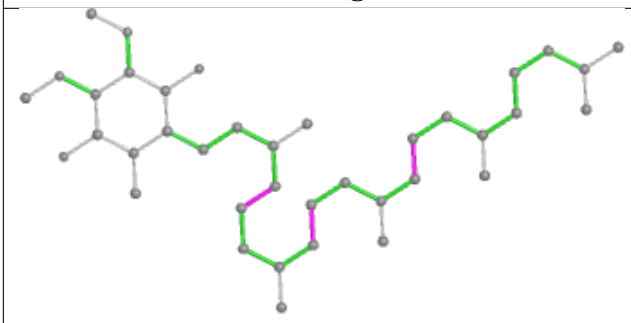
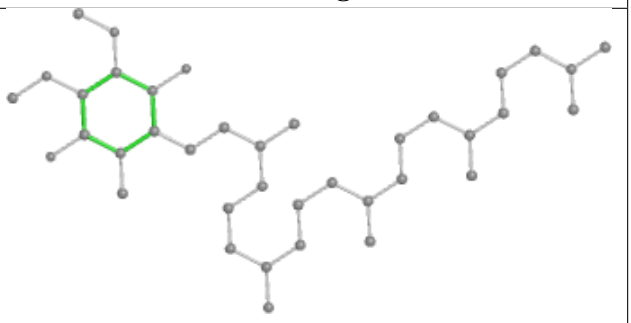


Bond angles

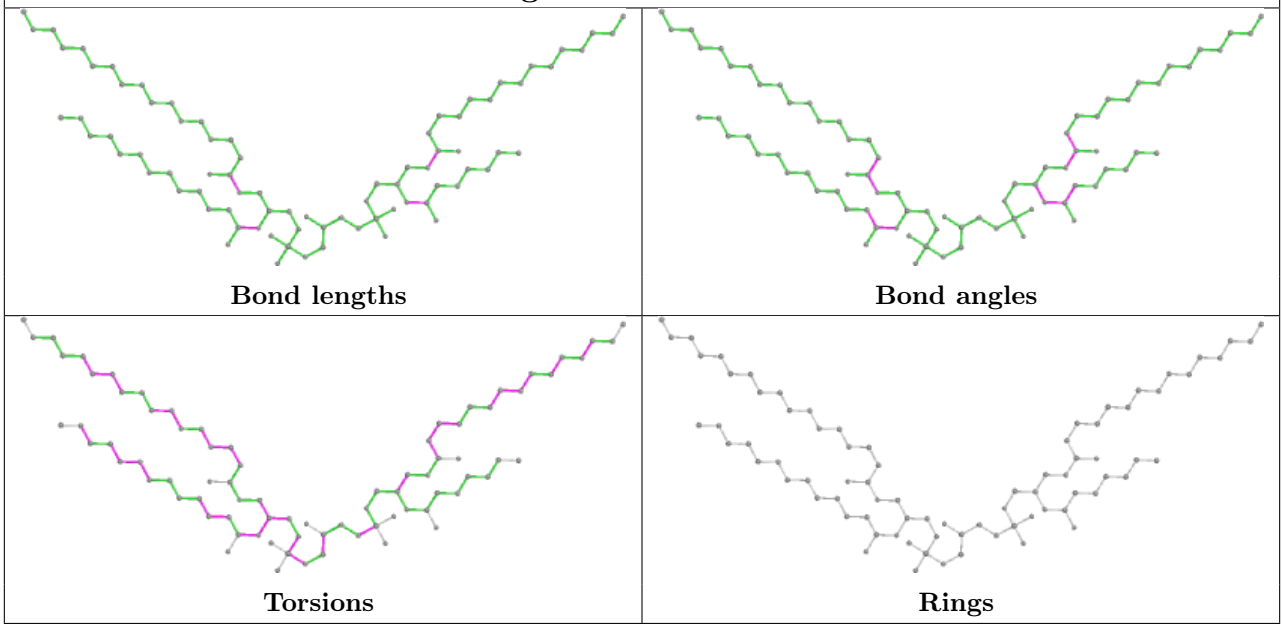


Torsions

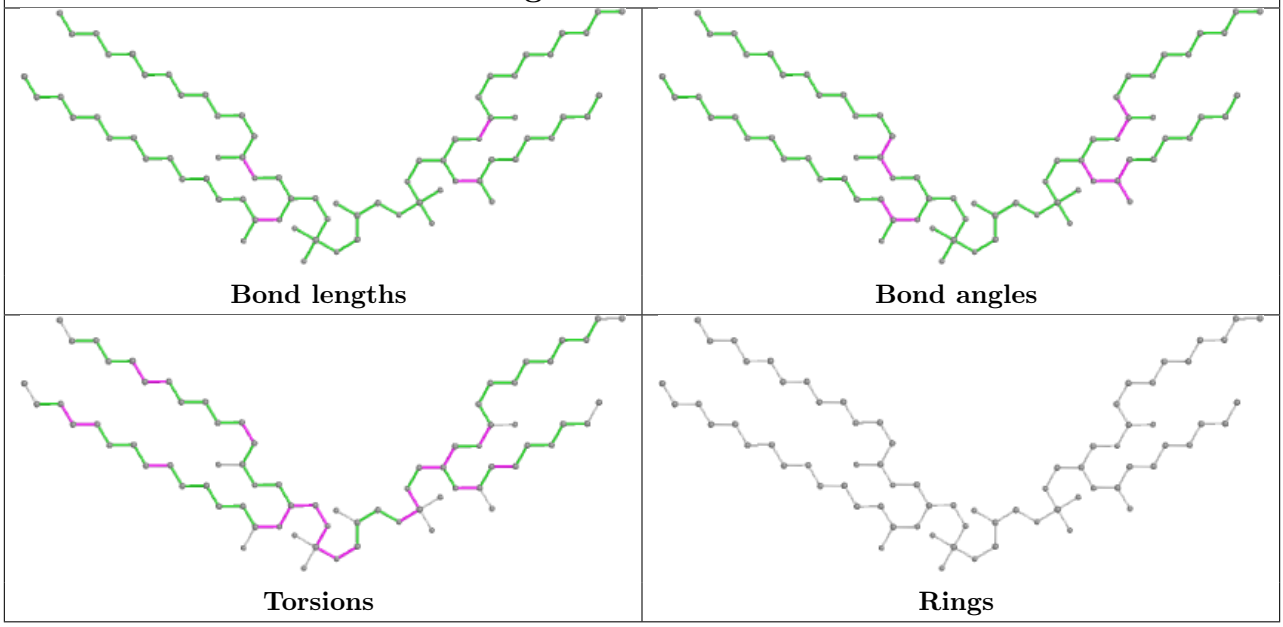


Rings

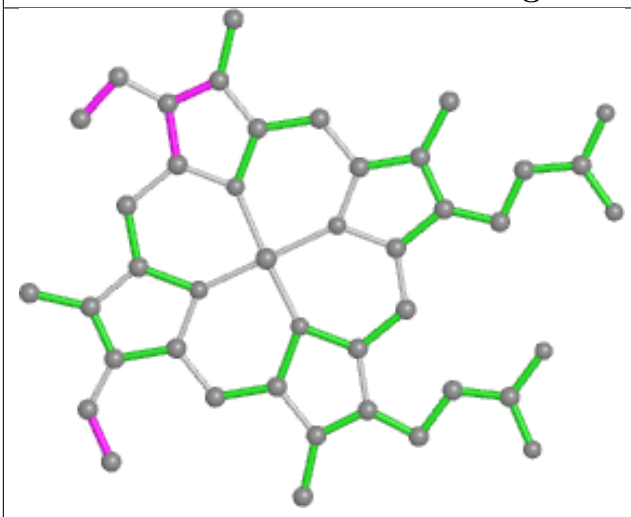
Ligand CDL M 407



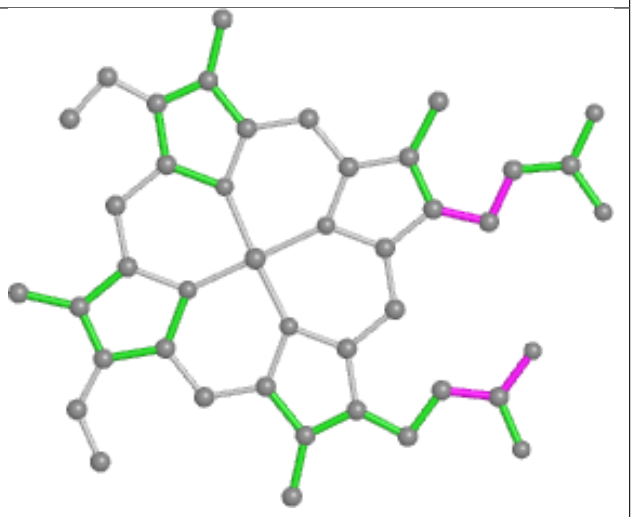
Ligand CDL O 101



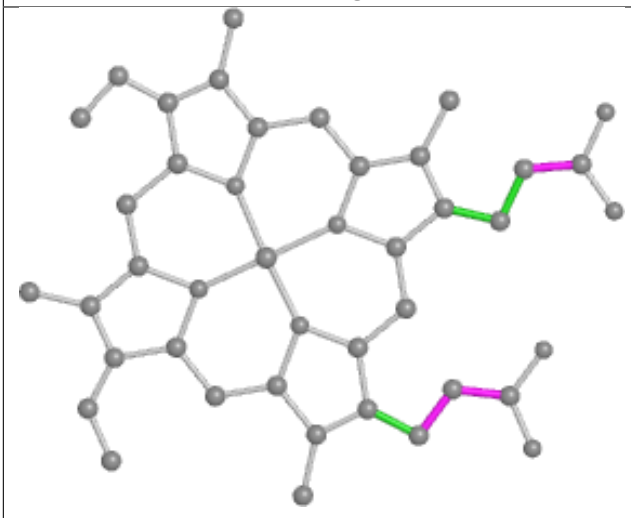
Ligand HEC C 401



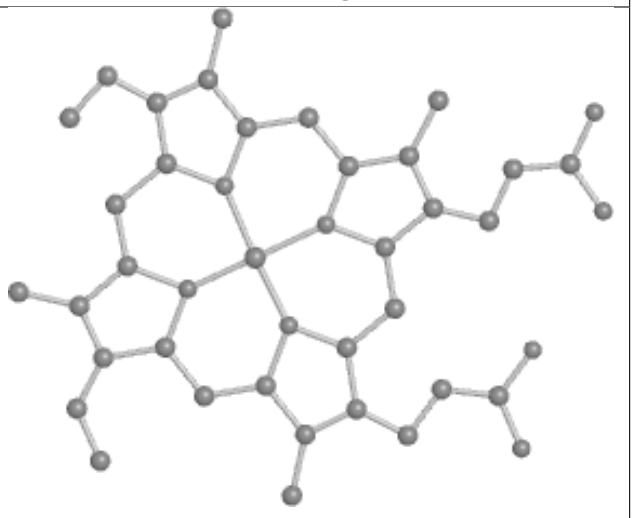
Bond lengths



Bond angles

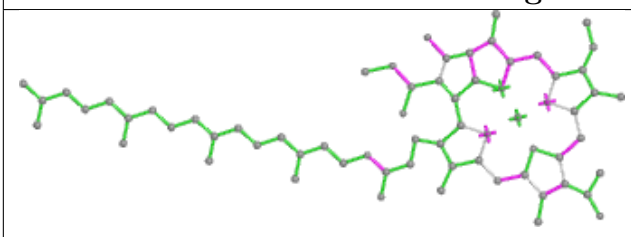


Torsions

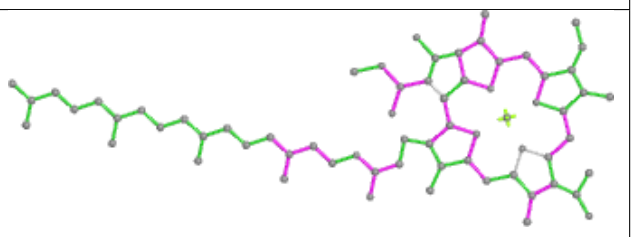


Rings

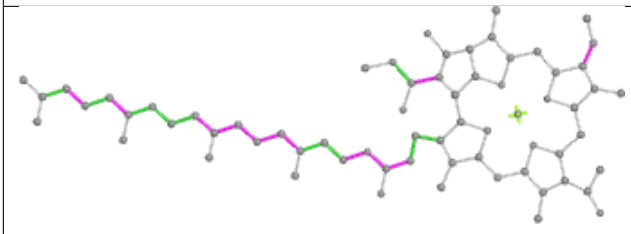
Ligand BCL O 105



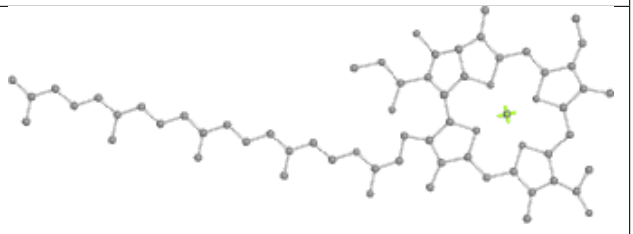
Bond lengths



Bond angles

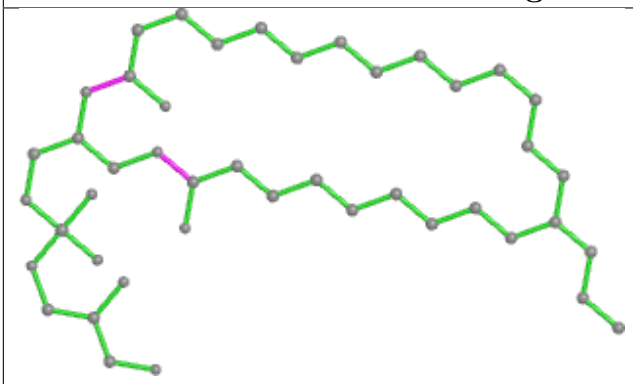


Torsions

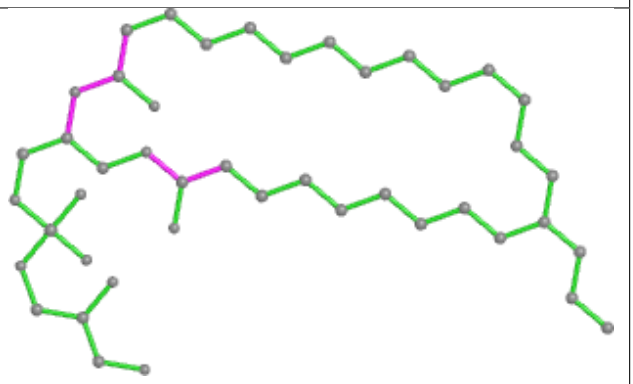


Rings

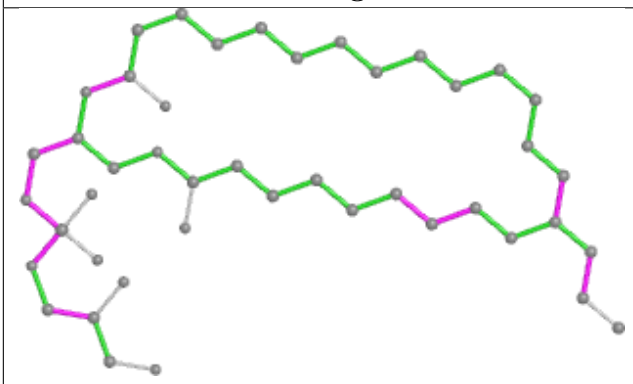
Ligand PGV 6 101



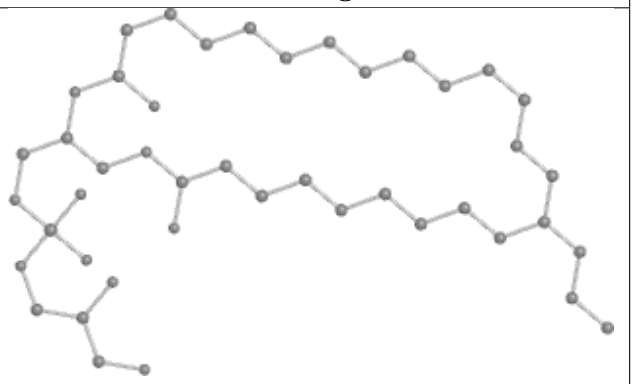
Bond lengths



Bond angles

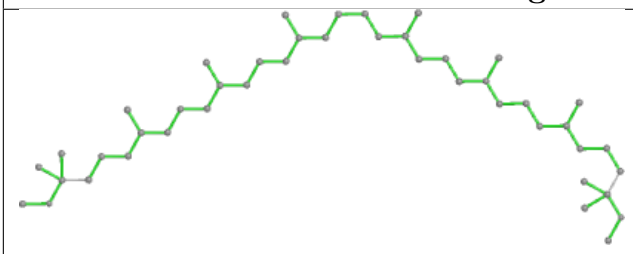


Torsions



Rings

Ligand CRT 4 101



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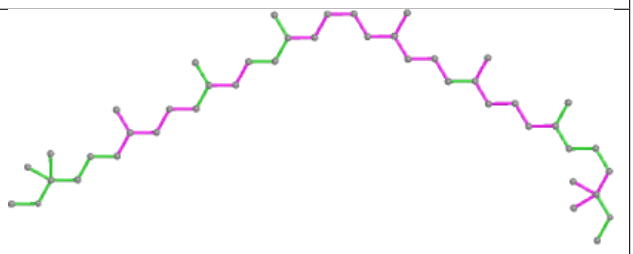
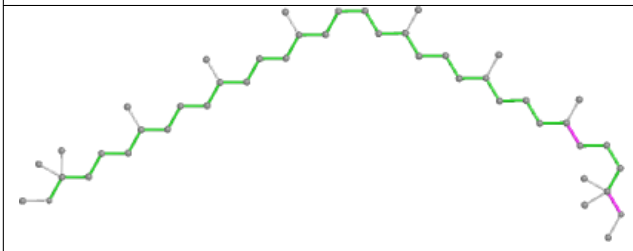
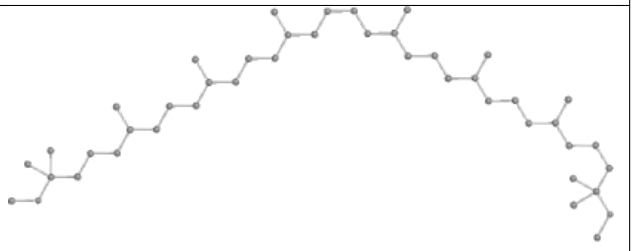


Bond angles

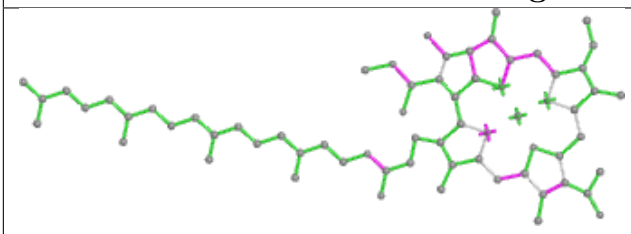


Torsions

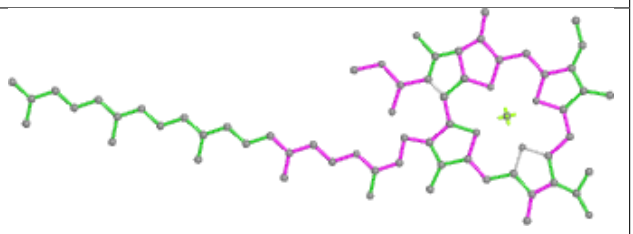


Rings

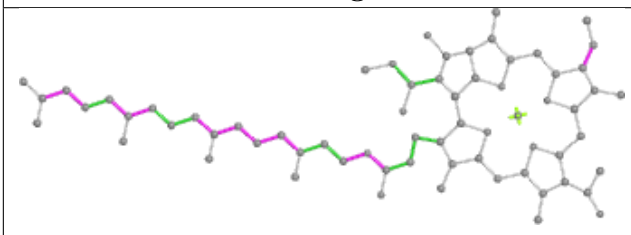
Ligand BCL 7 104



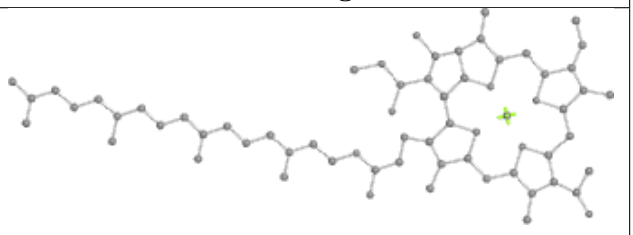
Bond lengths



Bond angles

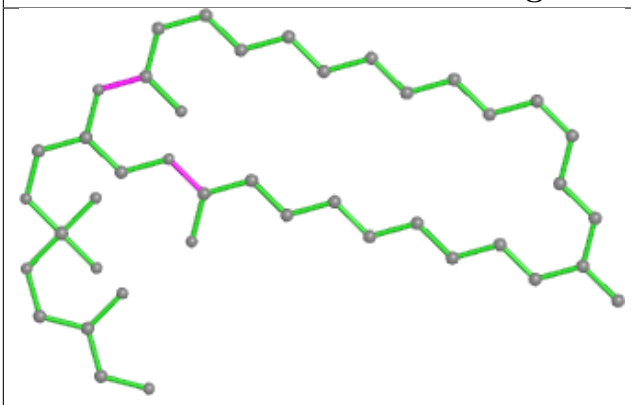


Torsions

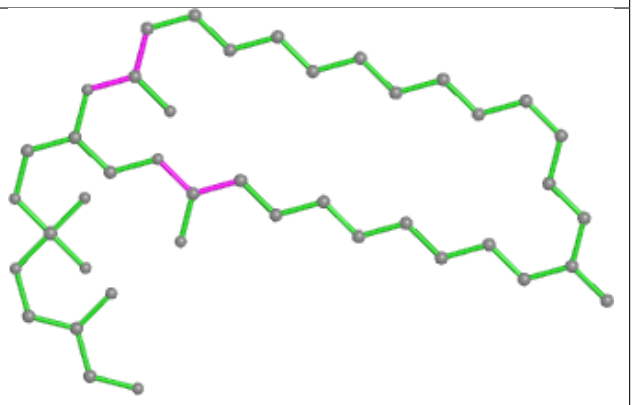


Rings

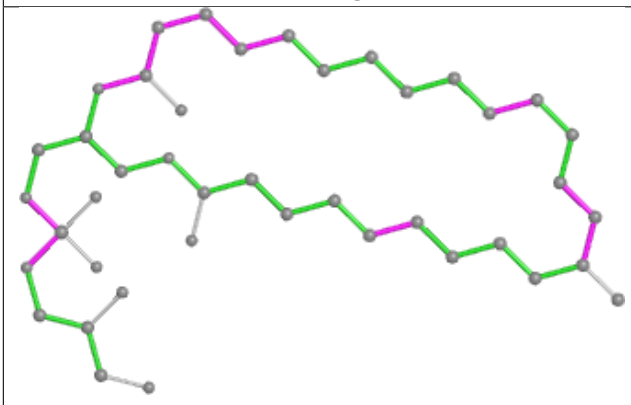
Ligand PGV 0 103



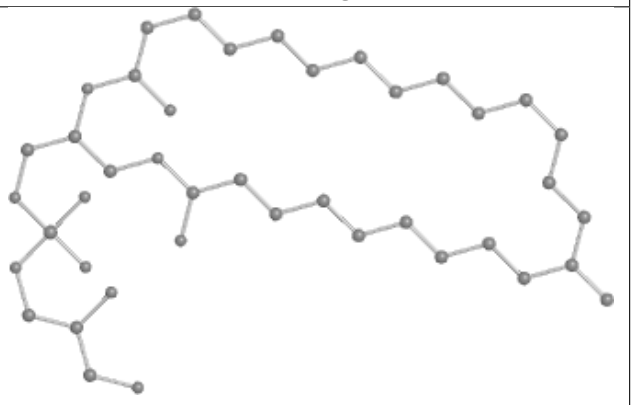
Bond lengths



Bond angles

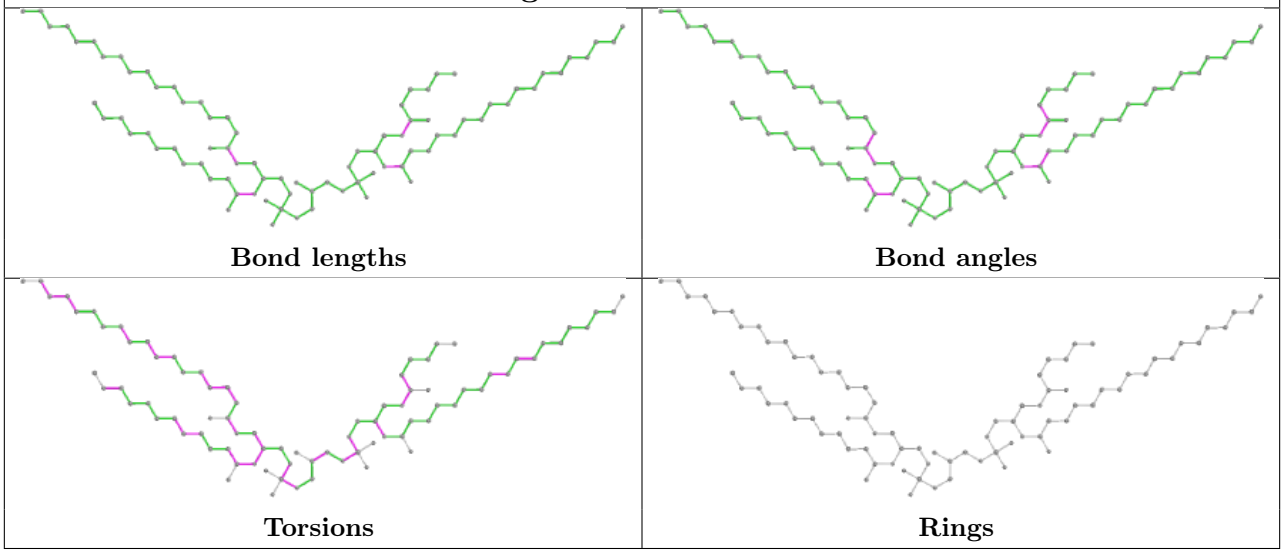


Torsions

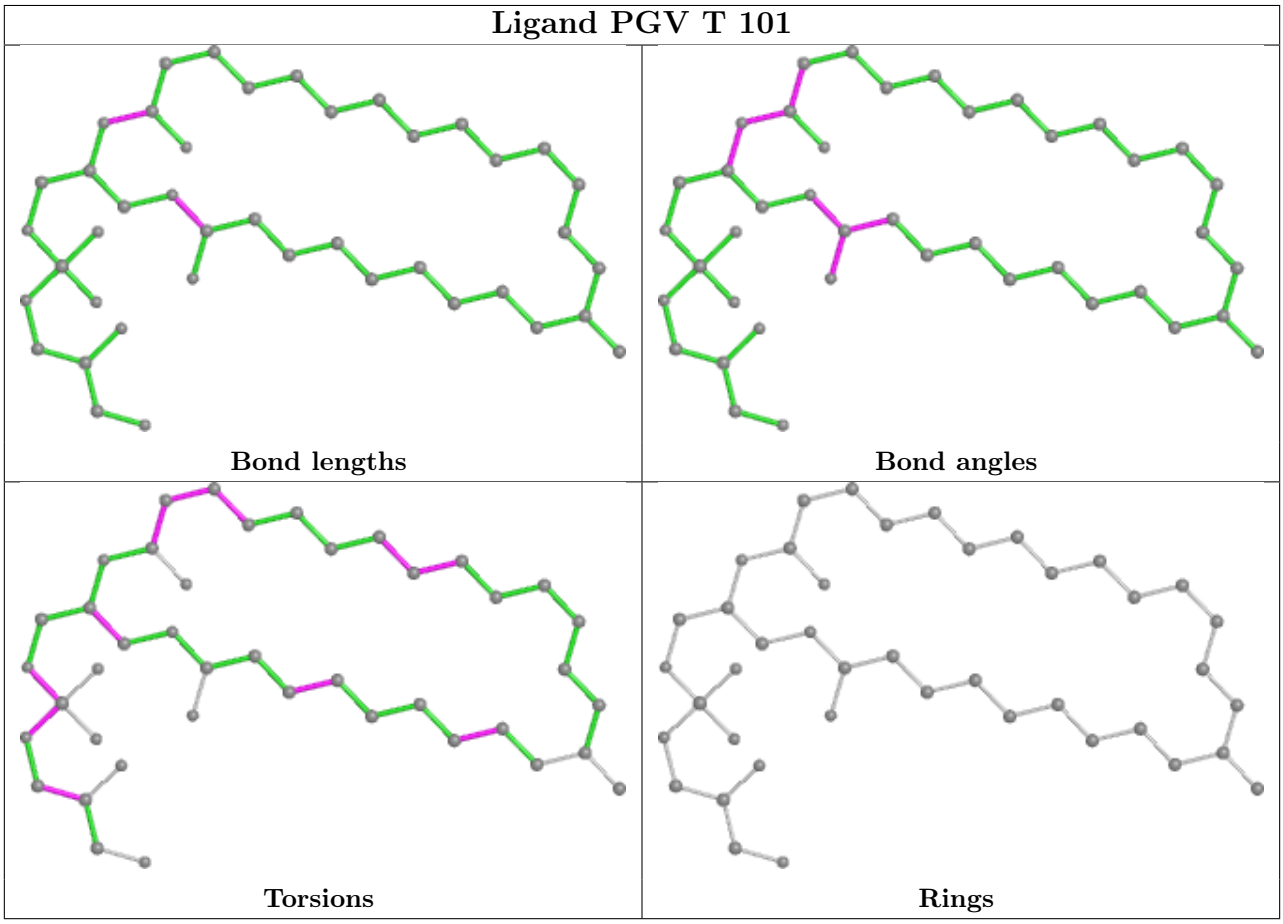


Rings

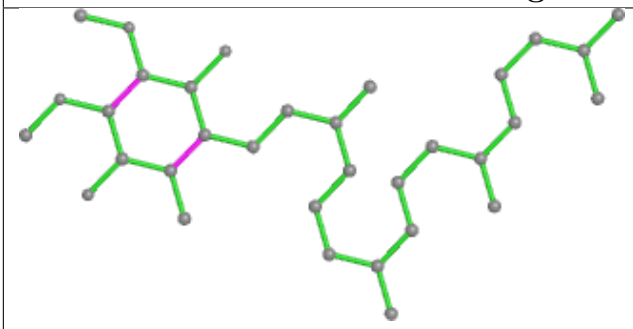
Ligand CDL M 402



Ligand PGV T 101



Ligand UQ8 L 304



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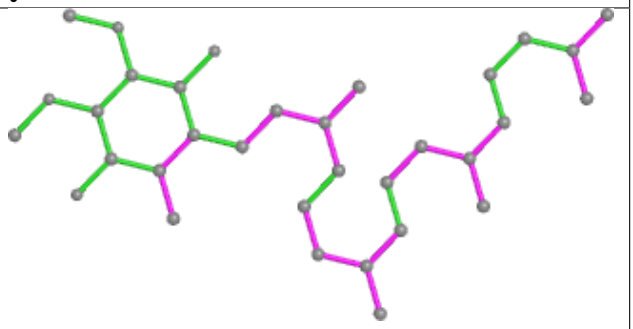
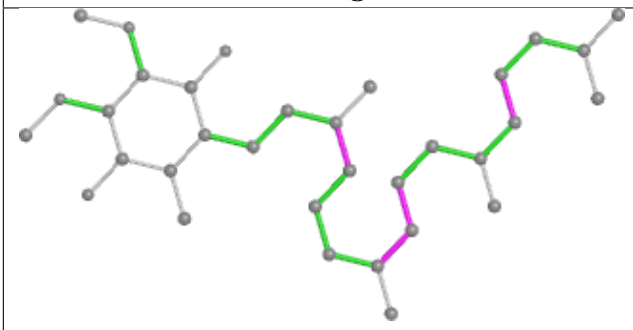
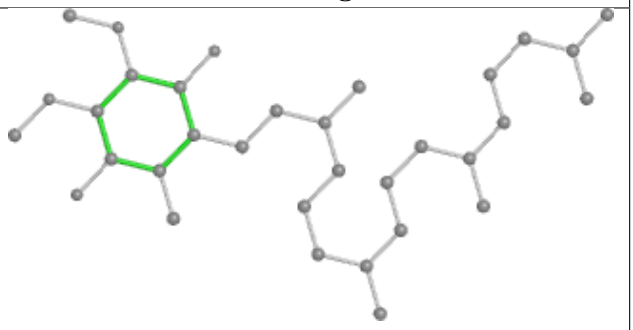


Bond angles

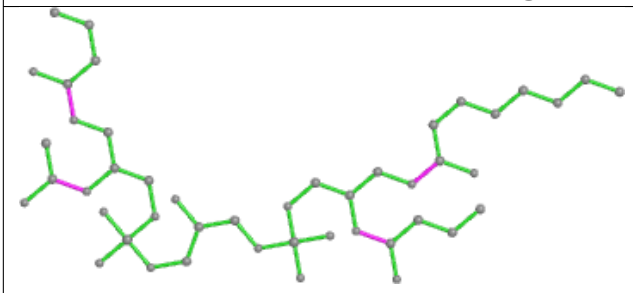


Torsions

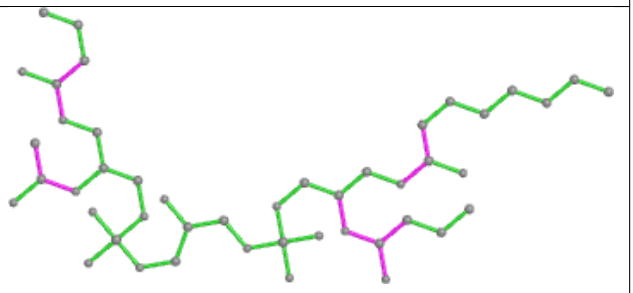


Rings

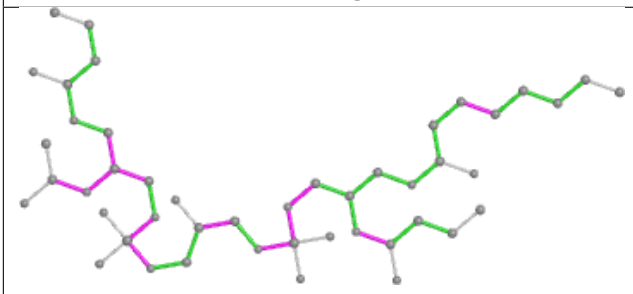
Ligand CDL M 408



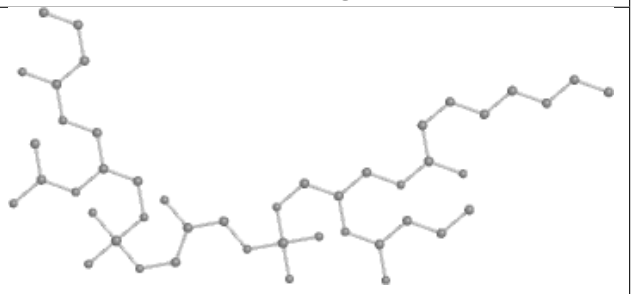
Bond lengths



Bond angles

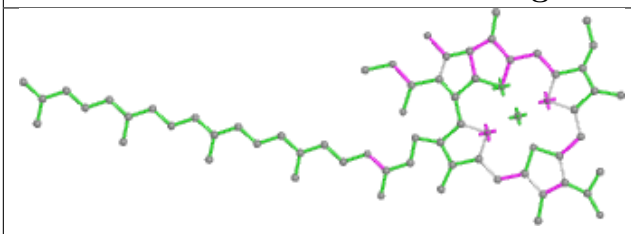


Torsions



Rings

Ligand BCL I 104



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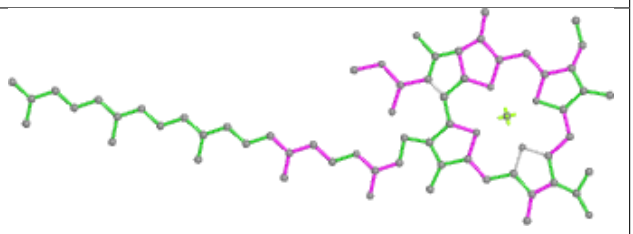
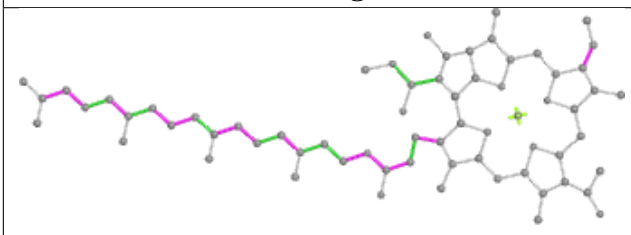


Bond angles



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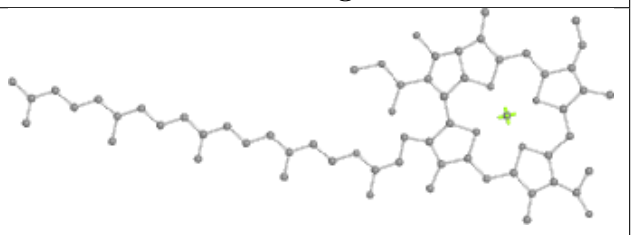
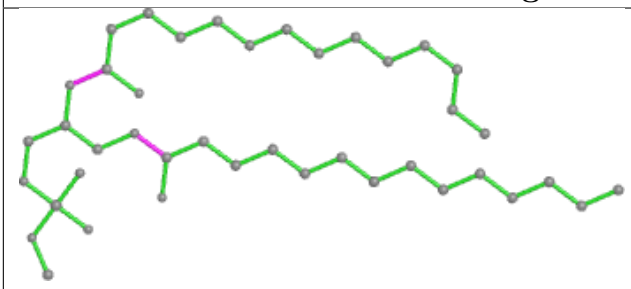


Rings

Ligand PGV B 104



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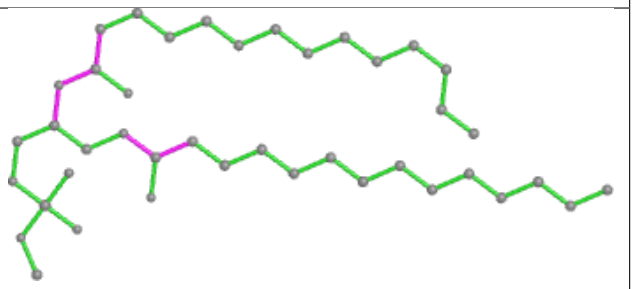
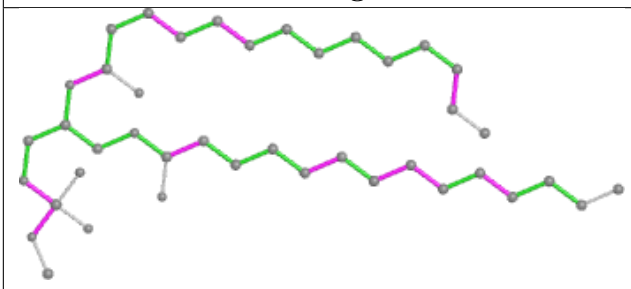


Bond angles



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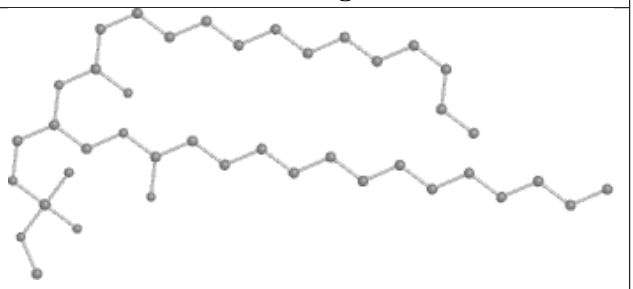
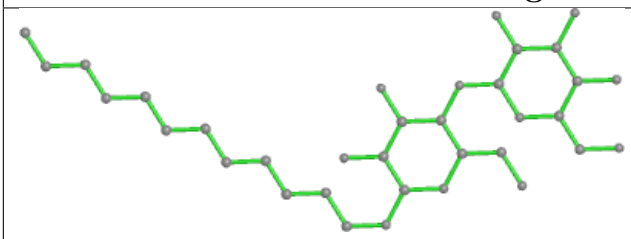


Rings

Ligand LMT 5 101



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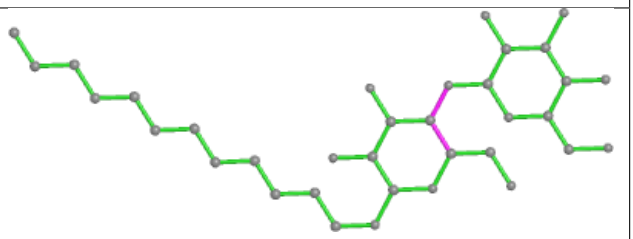
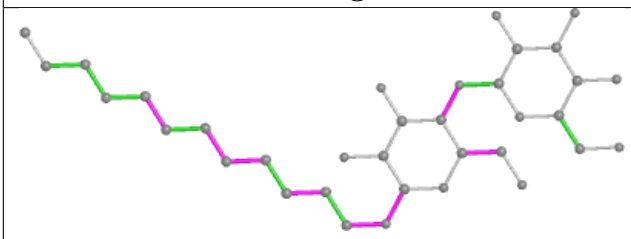


Bond angles



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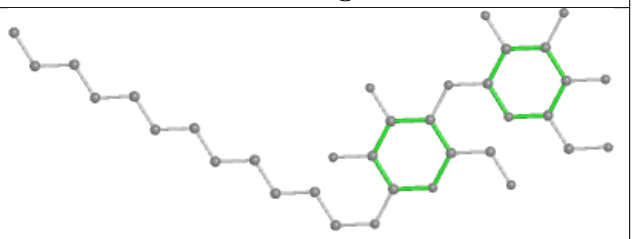
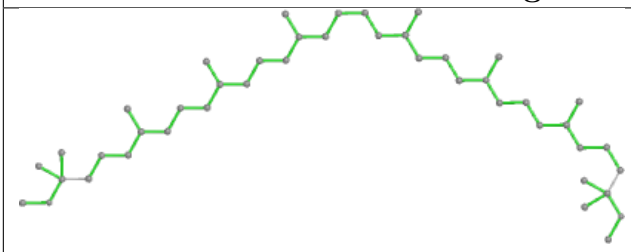


Rings

Ligand CRT R 101



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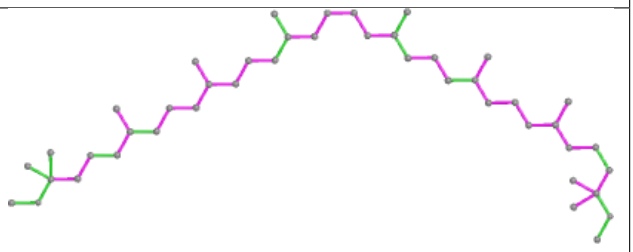
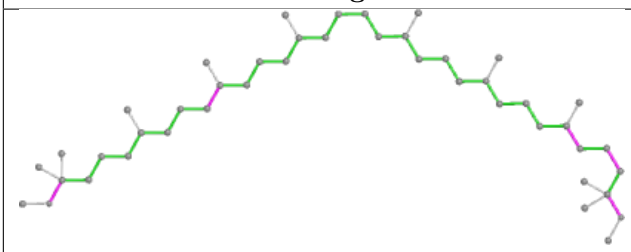


Bond angles



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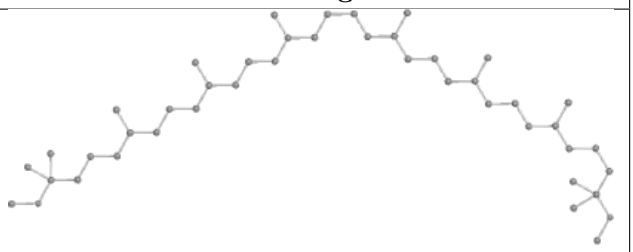
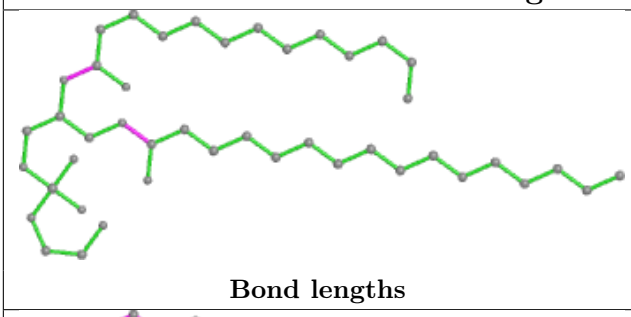


Rings

Ligand PGV 4 103



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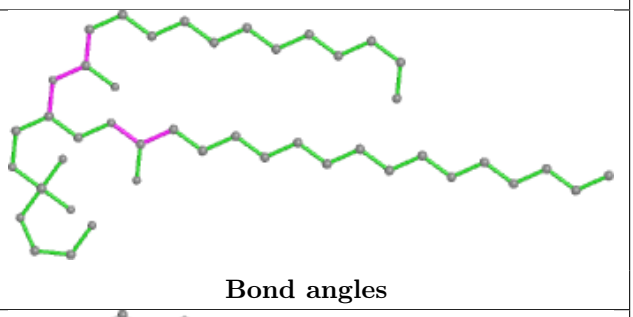
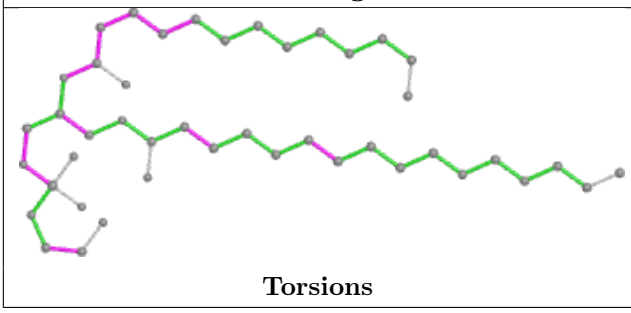
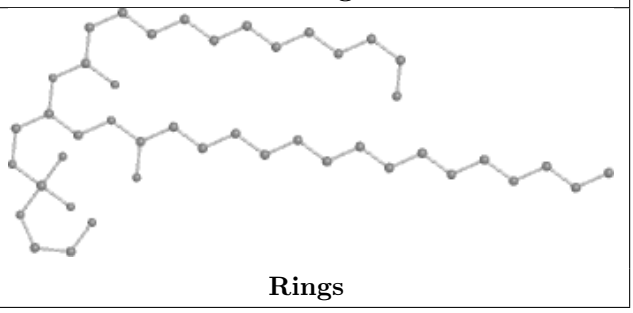


Bond angles

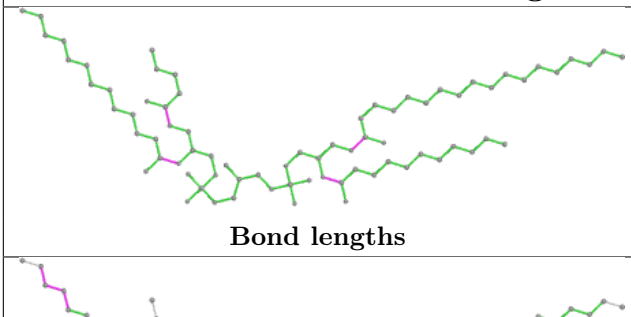


Torsions

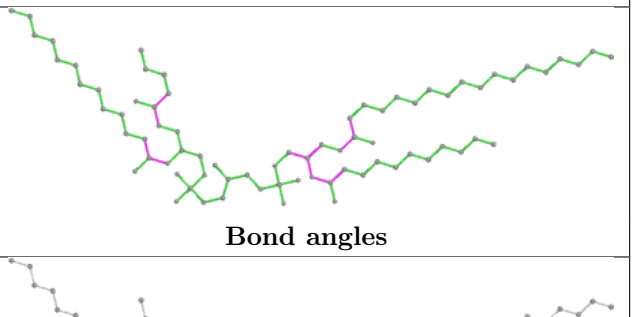


Rings

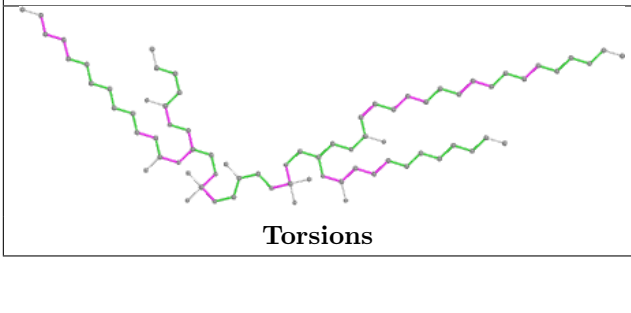
Ligand CDL L 310



Bond lengths



Bond angles



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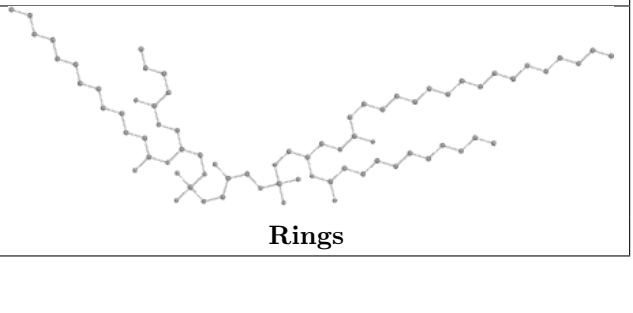
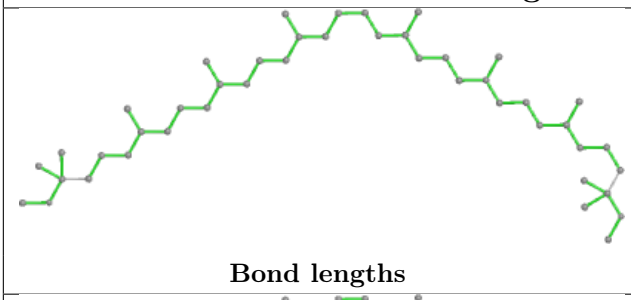


Rings

Ligand CRT N 102



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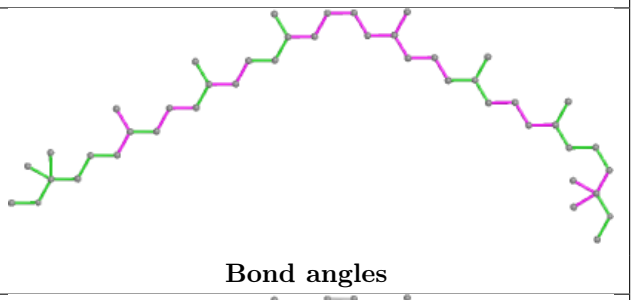
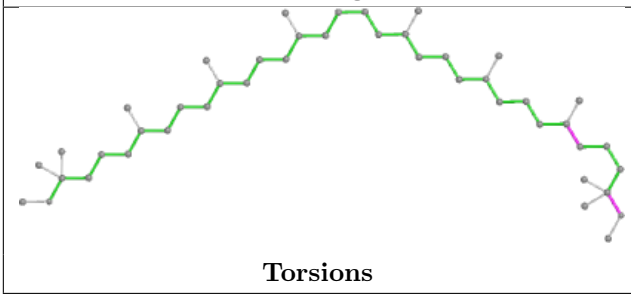
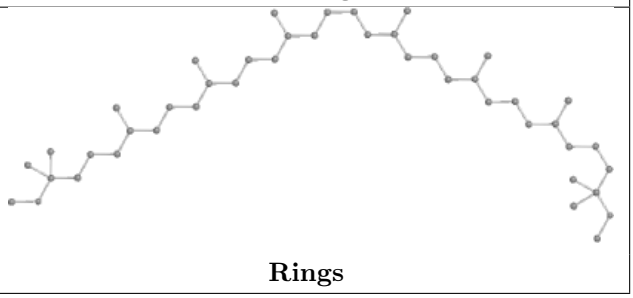


Bond angles

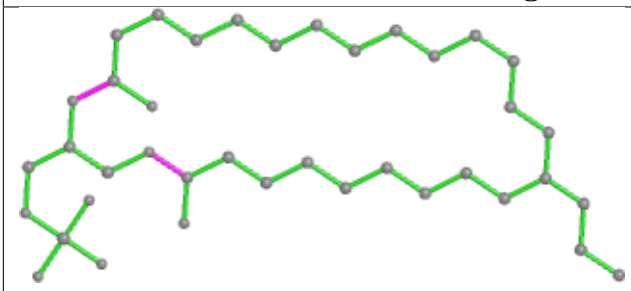


Torsions



Rings

Ligand PGV P 103



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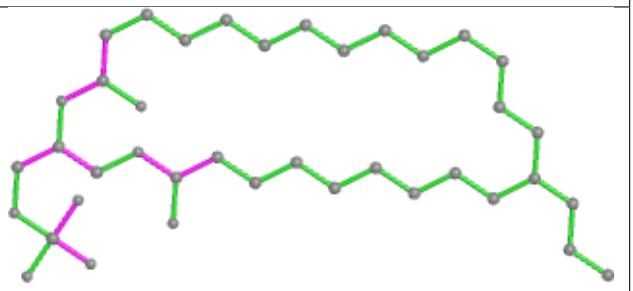
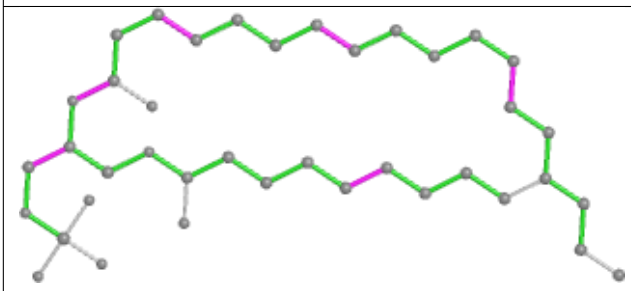
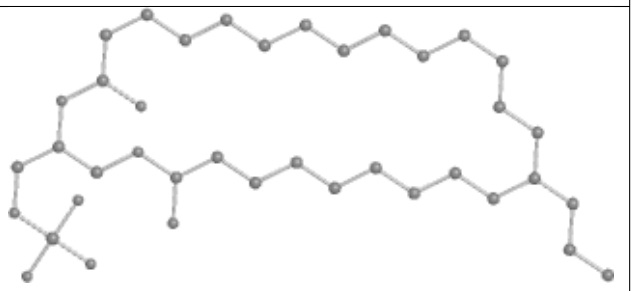


Bond angles

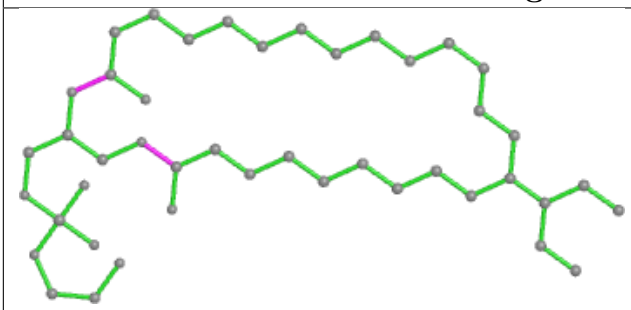


Torsions

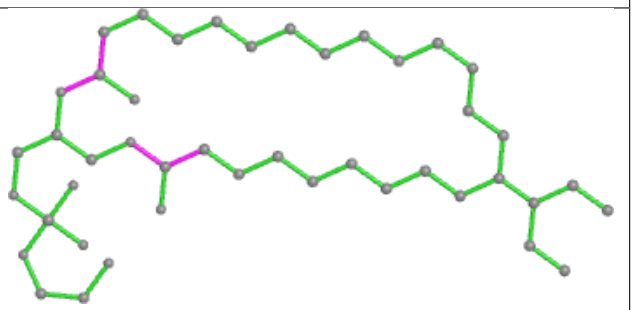


Rings

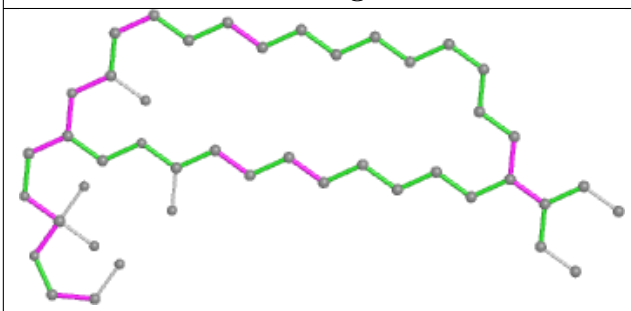
Ligand PGV 2 102



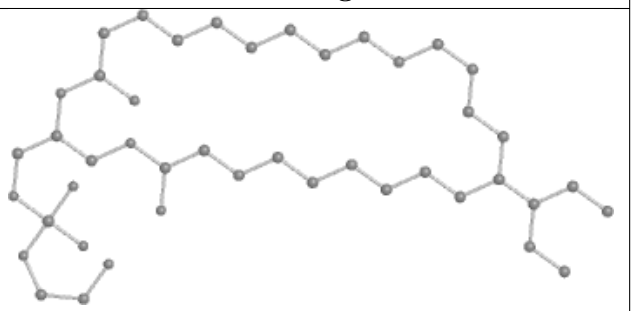
Bond lengths



Bond angles

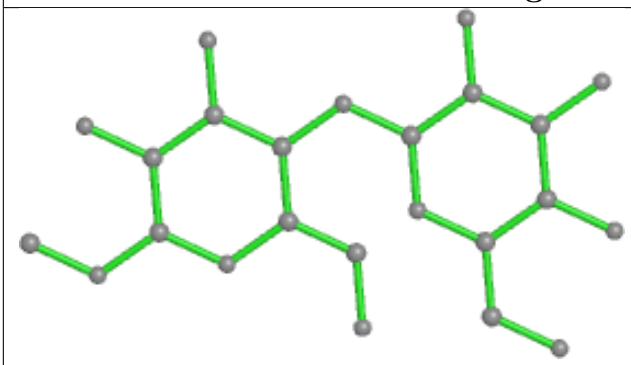


Torsions

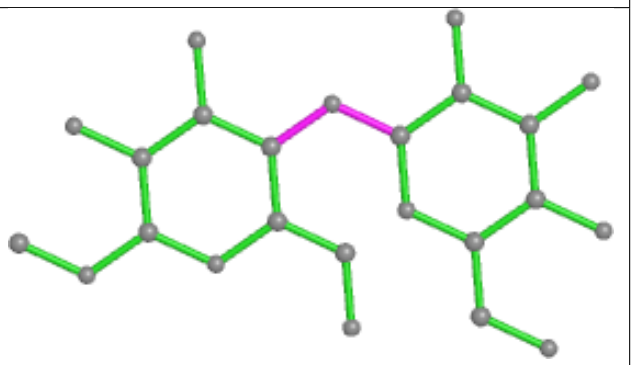


Rings

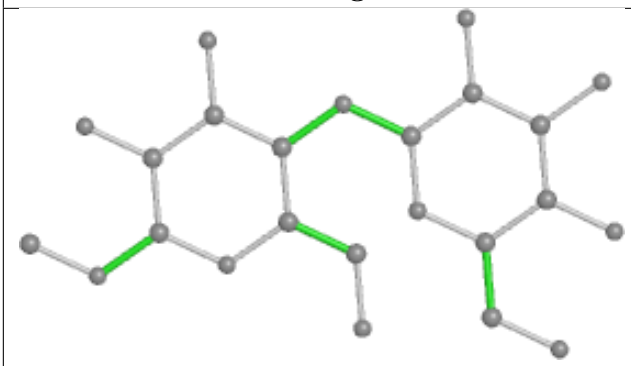
Ligand LMT 5 102



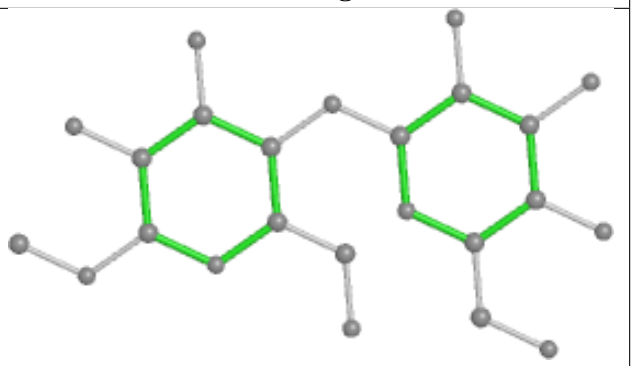
Bond lengths



Bond angles

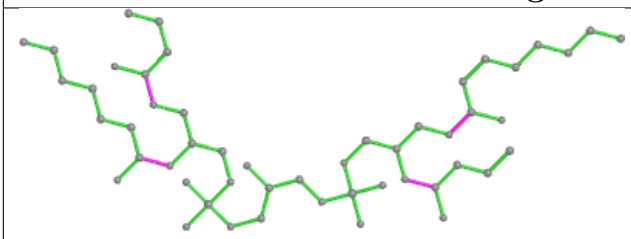


Torsions

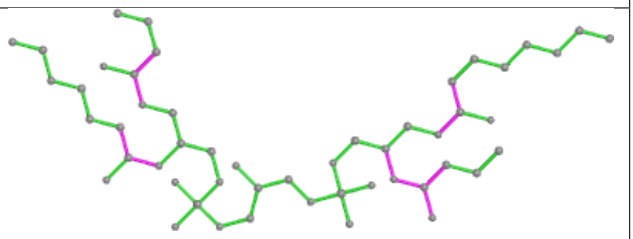


Rings

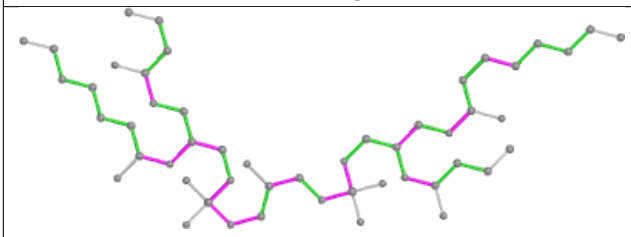
Ligand CDL S 101



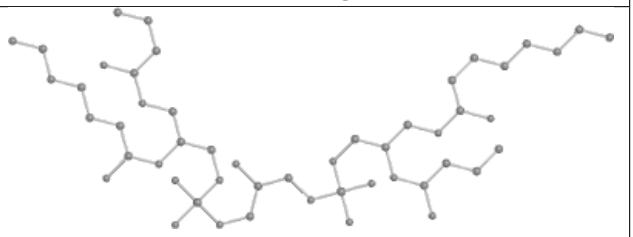
Bond lengths



Bond angles

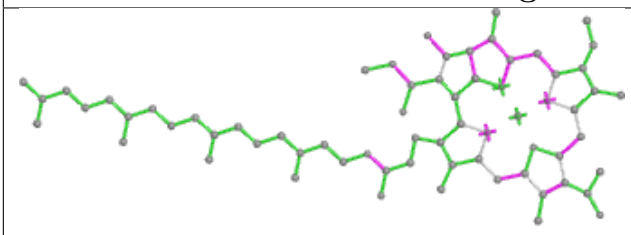


Torsions

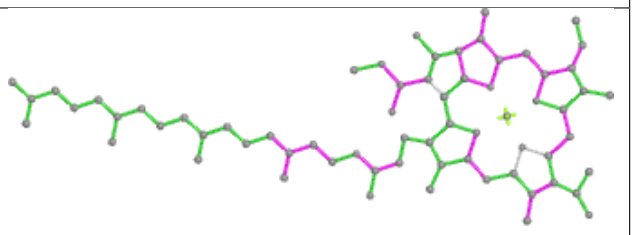


Rings

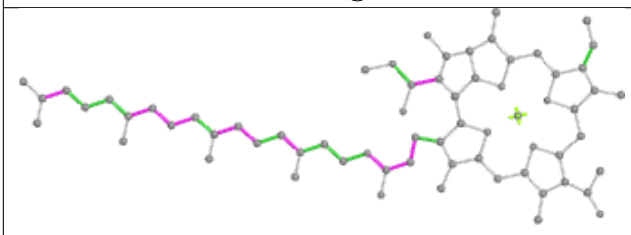
Ligand BCL W 102



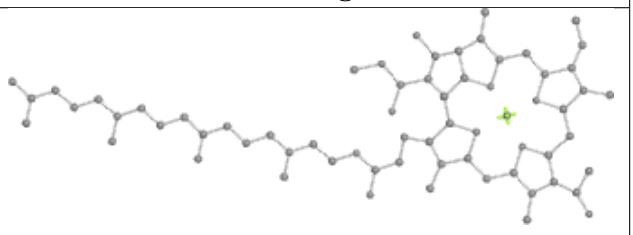
Bond lengths



Bond angles

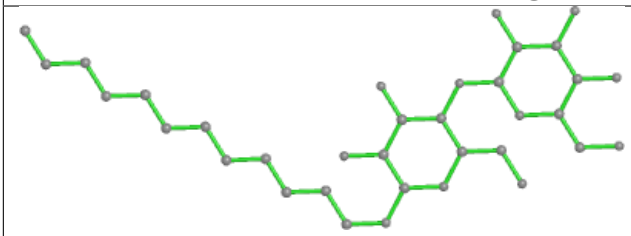


Torsions

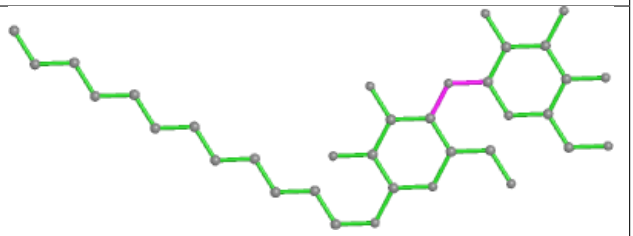


Rings

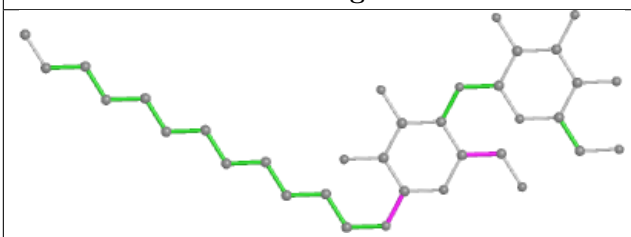
Ligand LMT 7 102



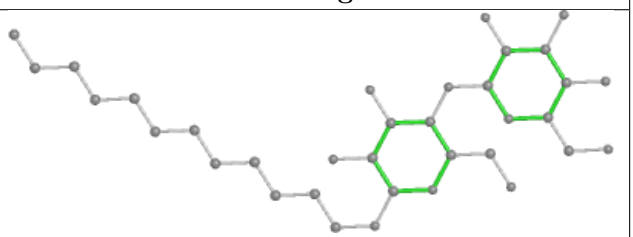
Bond lengths



Bond angles

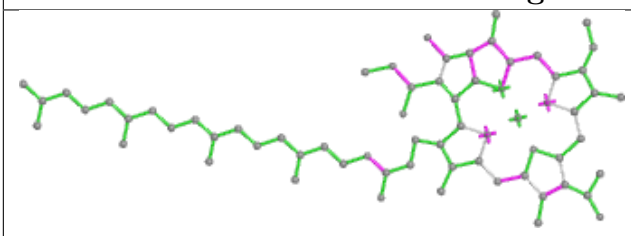


Torsions

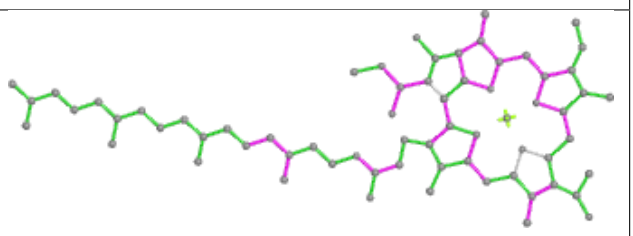


Rings

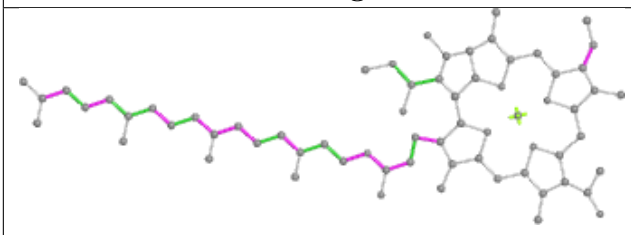
Ligand BCL Z 102



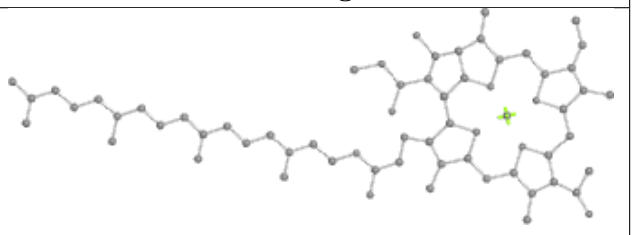
Bond lengths



Bond angles

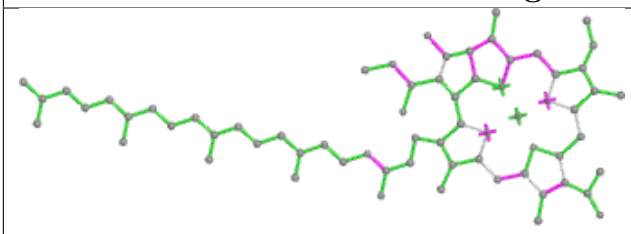


Torsions

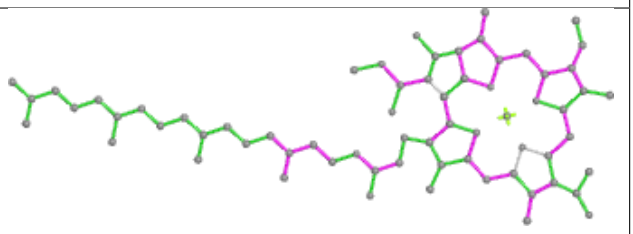


Rings

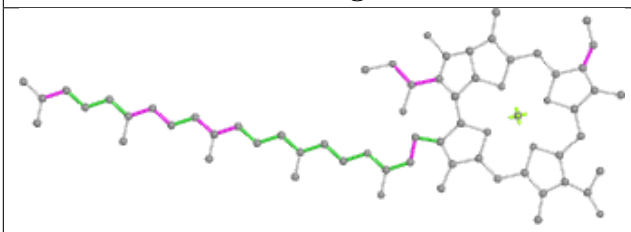
Ligand BCL Y 401



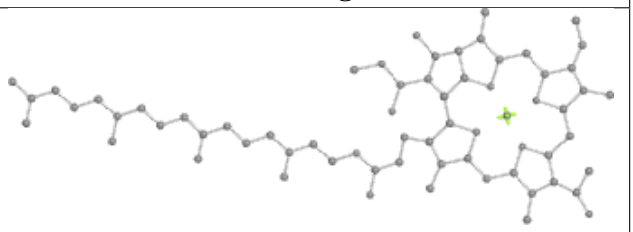
Bond lengths



Bond angles

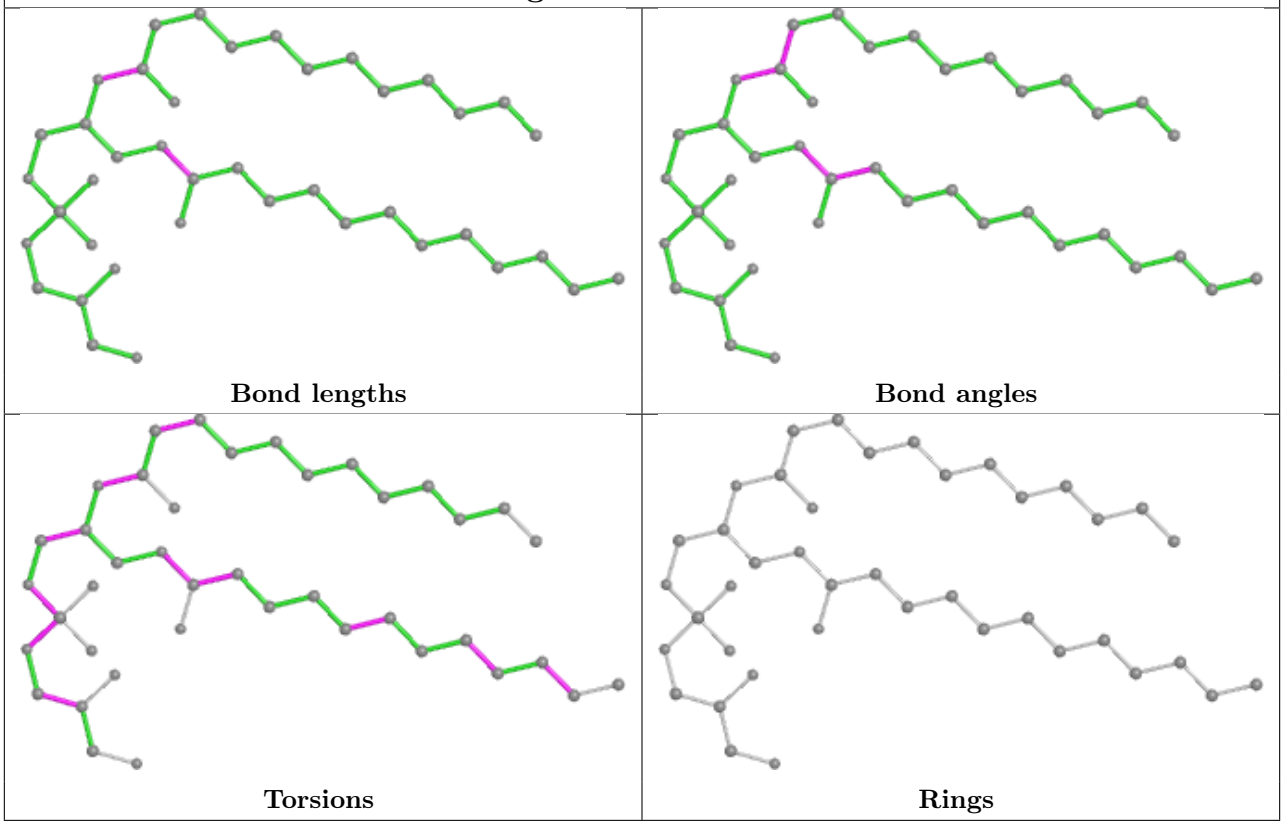


Torsions

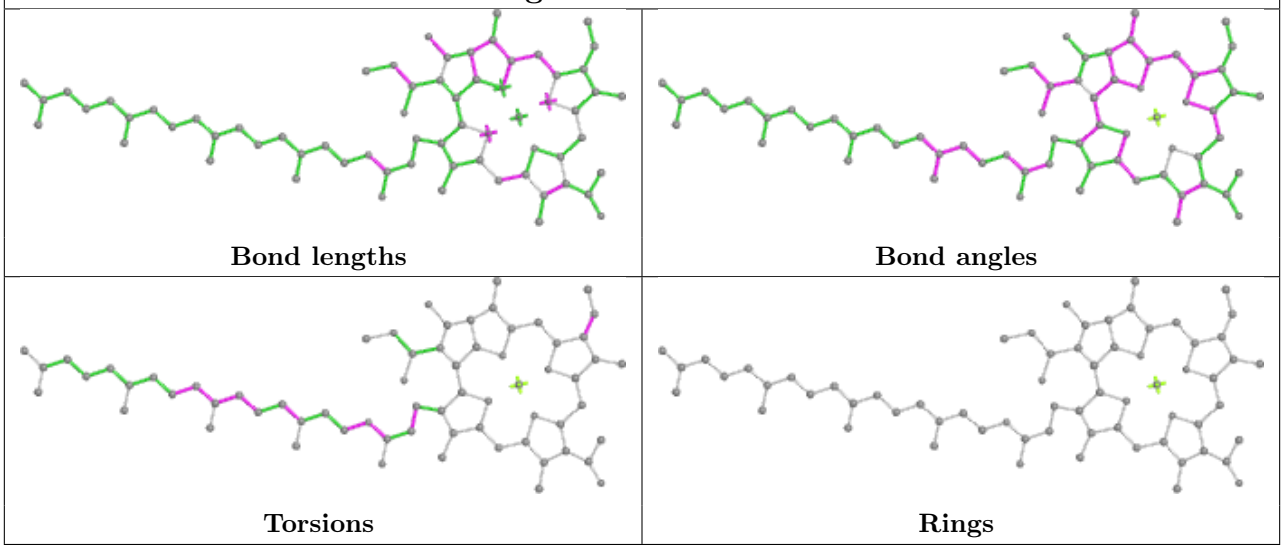


Rings

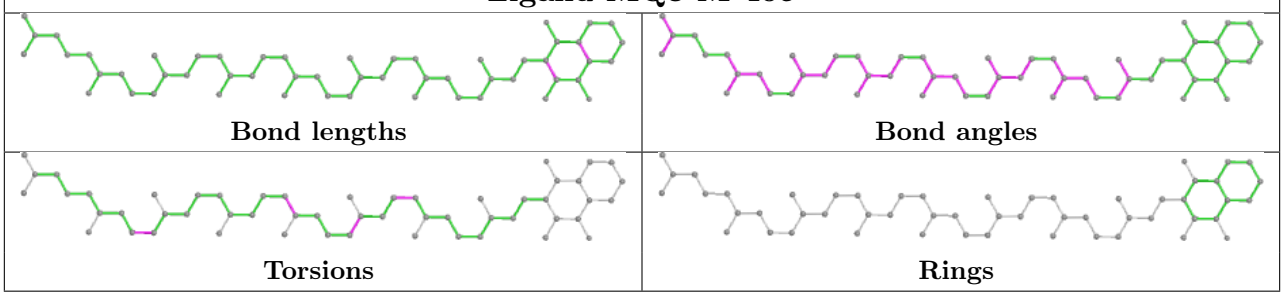
Ligand PGV 0 101



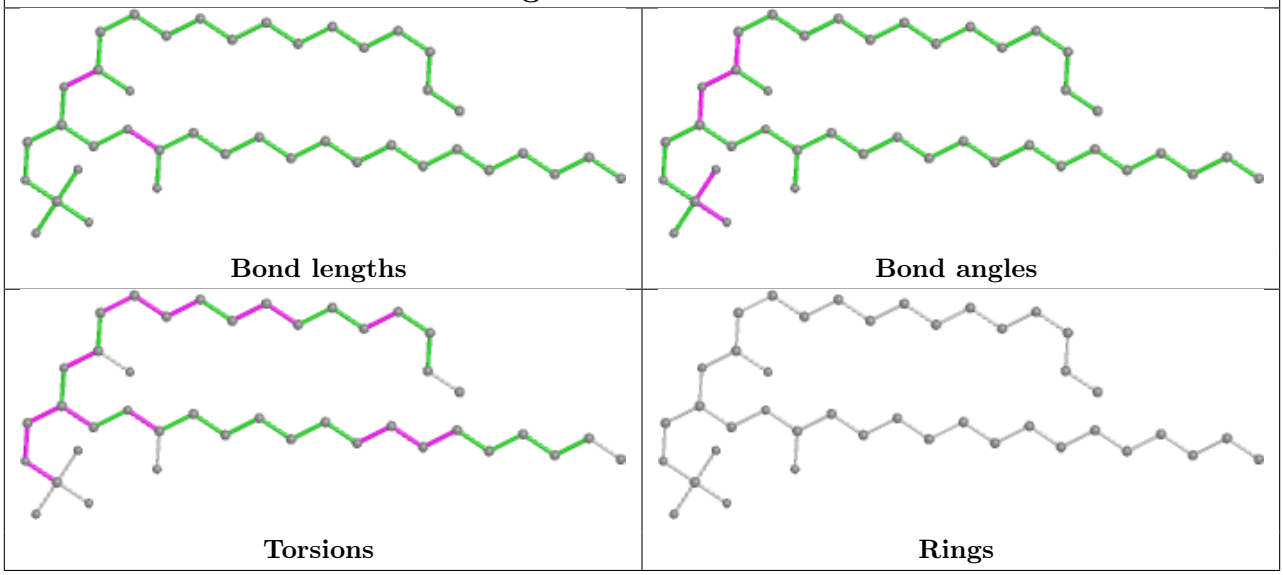
Ligand BCL X 101



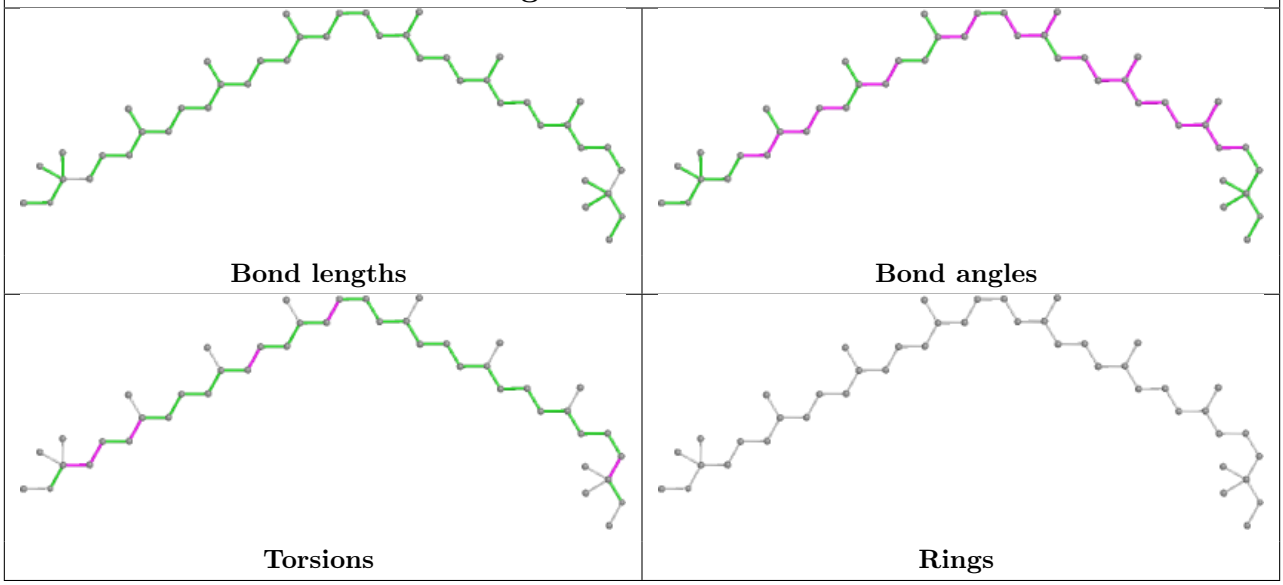
Ligand MQ8 M 405



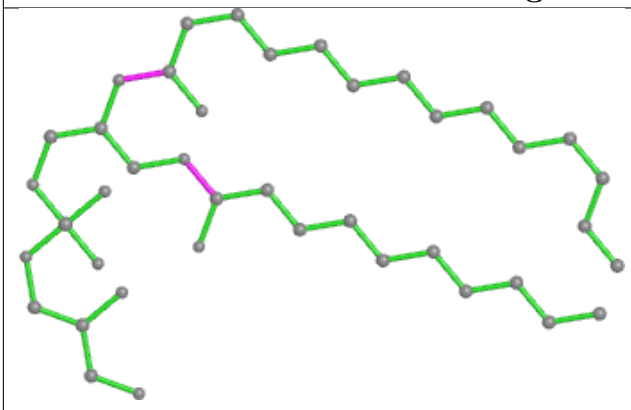
Ligand PGV R 103



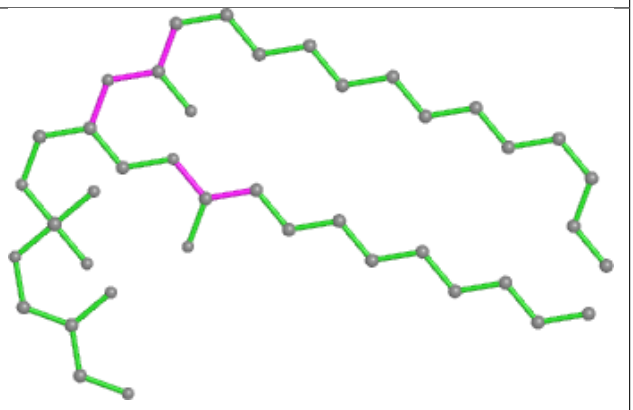
Ligand CRT M 406



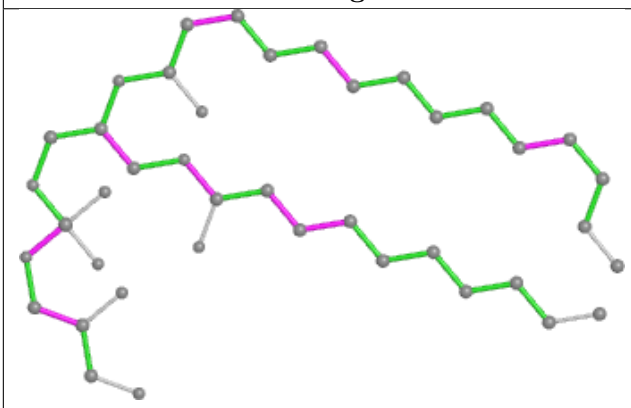
Ligand PGV 1 102



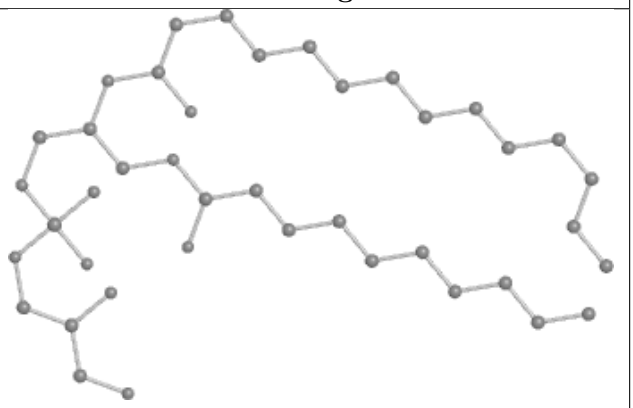
Bond lengths



Bond angles

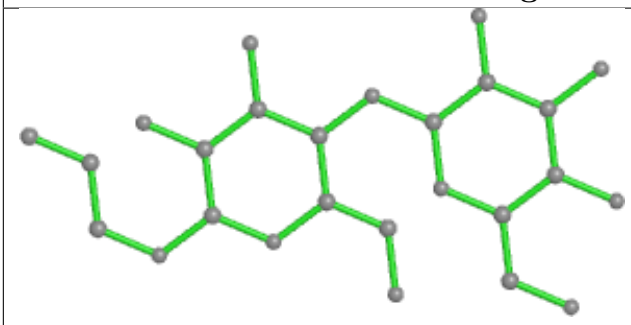


Torsions

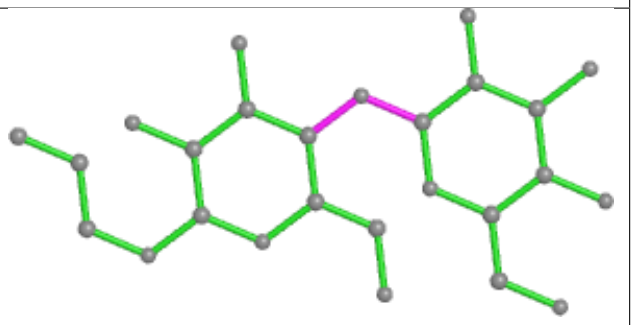


Rings

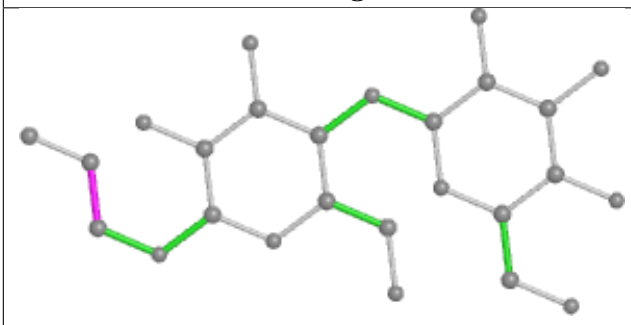
Ligand LMT H 305



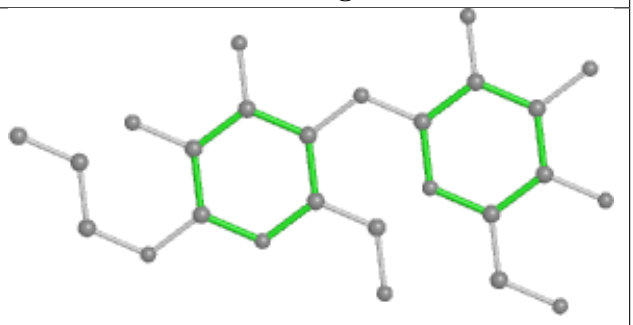
Bond lengths



Bond angles

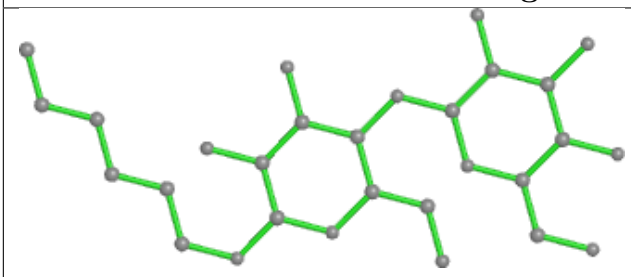


Torsions

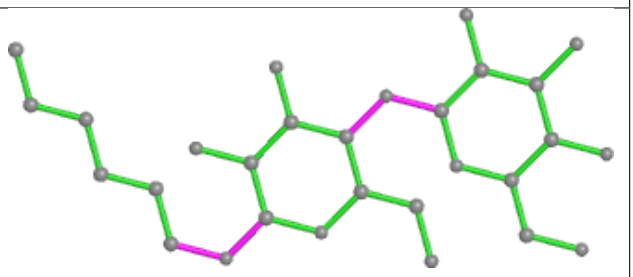


Rings

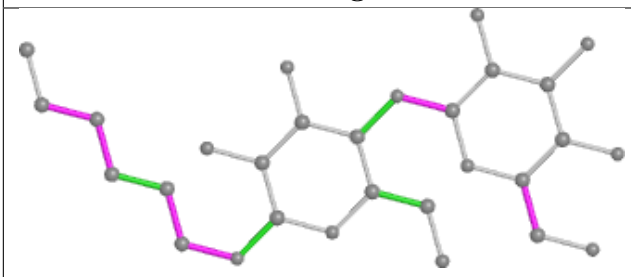
Ligand LMT O 103



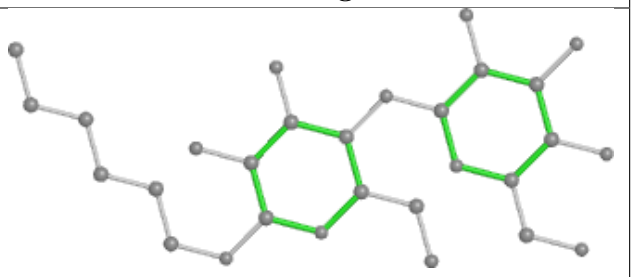
Bond lengths



Bond angles

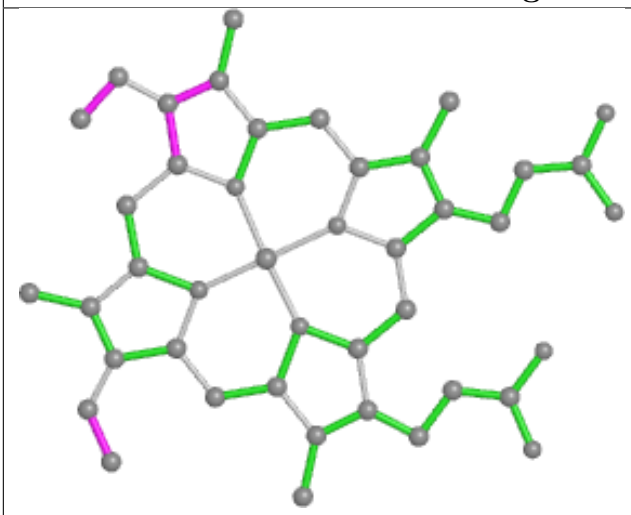


Torsions

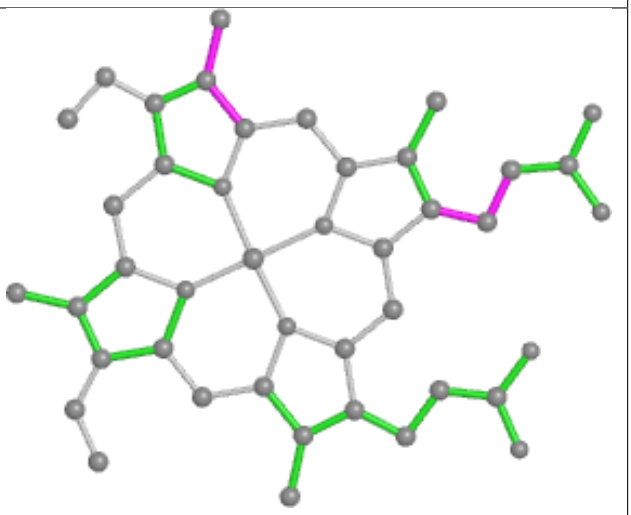


Rings

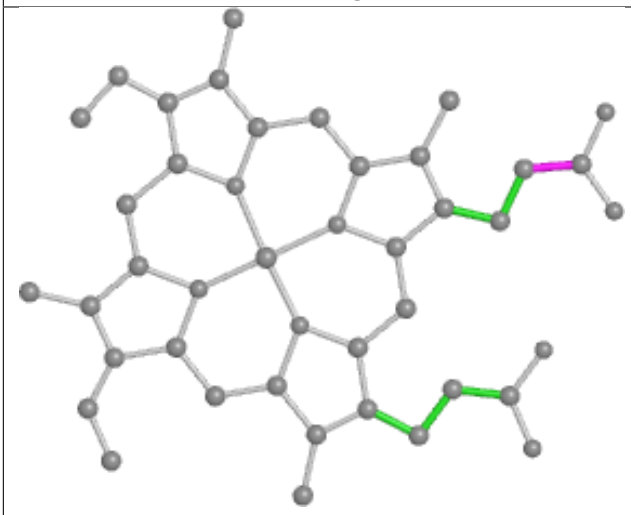
Ligand HEC C 404



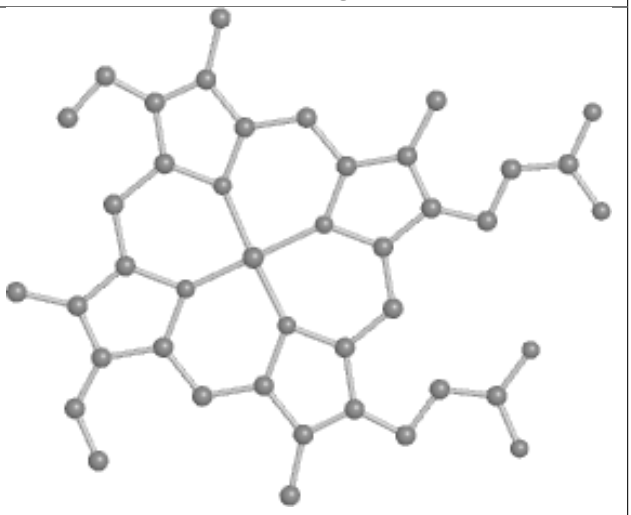
Bond lengths



Bond angles

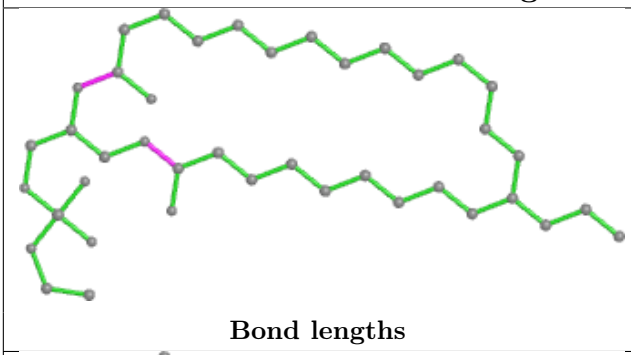


Torsions

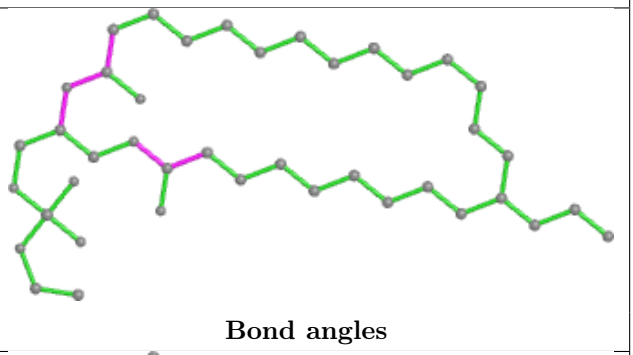


Rings

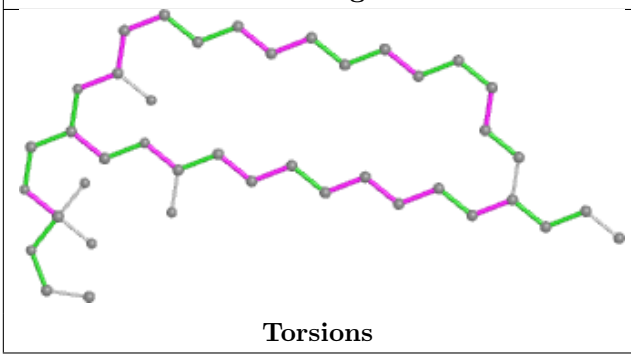
Ligand PGV G 104



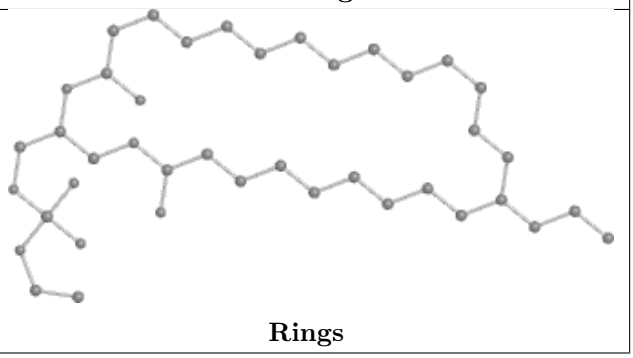
Bond lengths



Bond angles

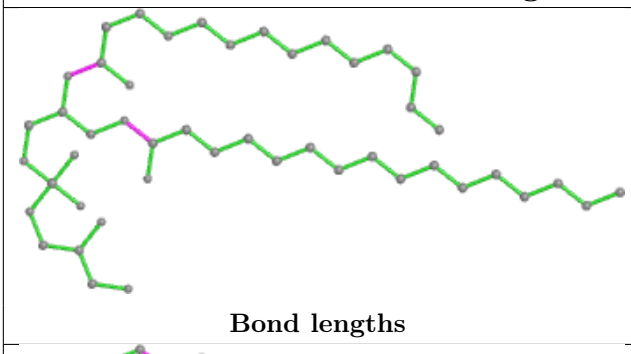


Torsions

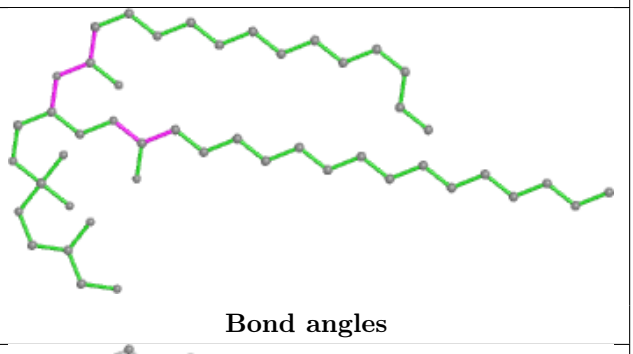


Rings

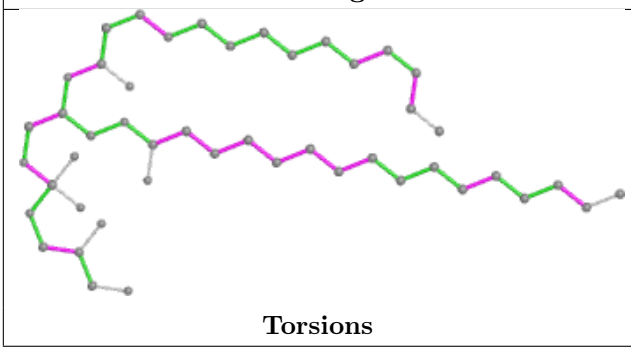
Ligand PGV T 104



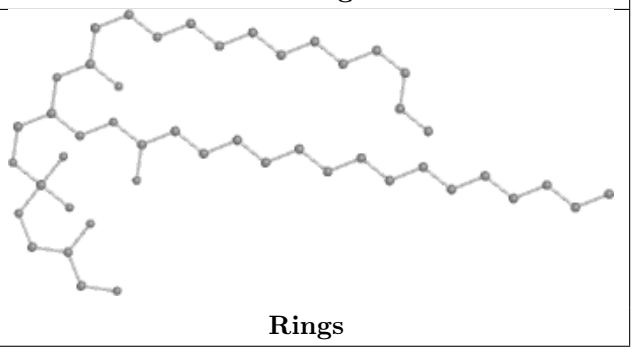
Bond lengths



Bond angles

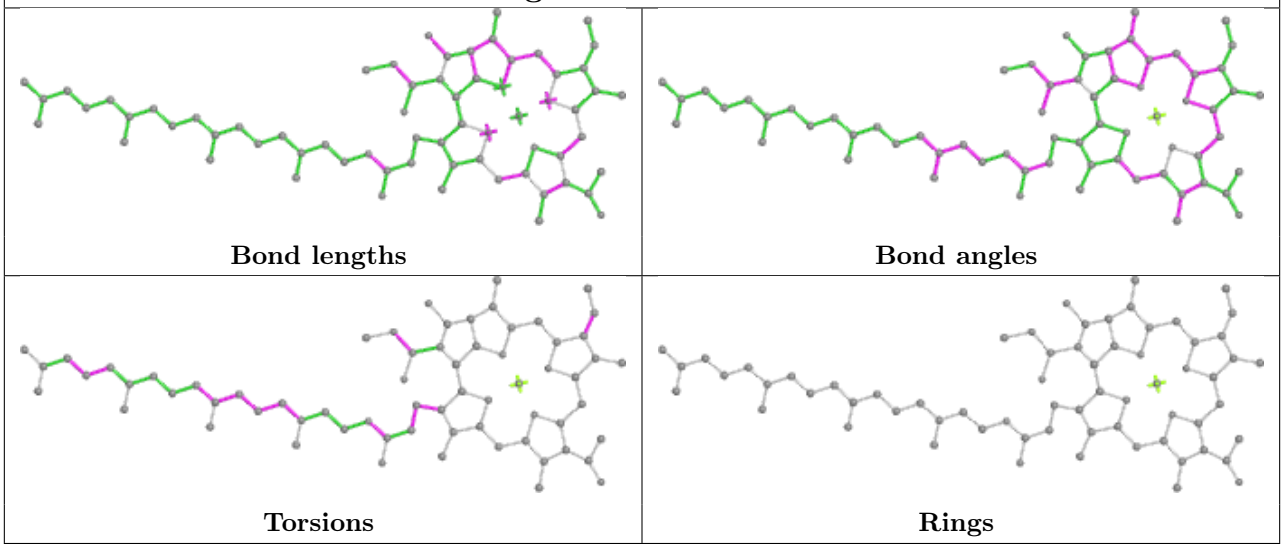


Torsions

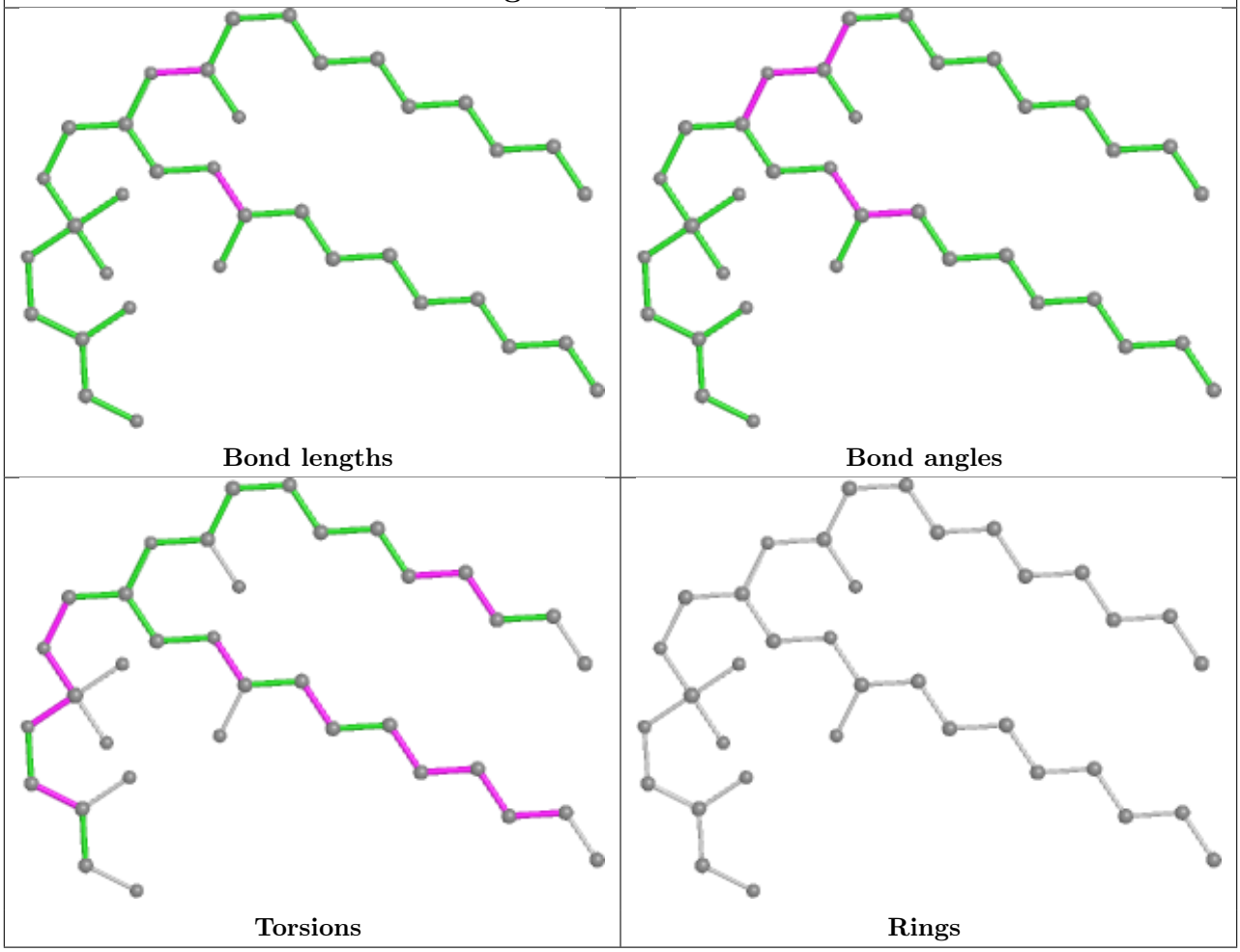


Rings

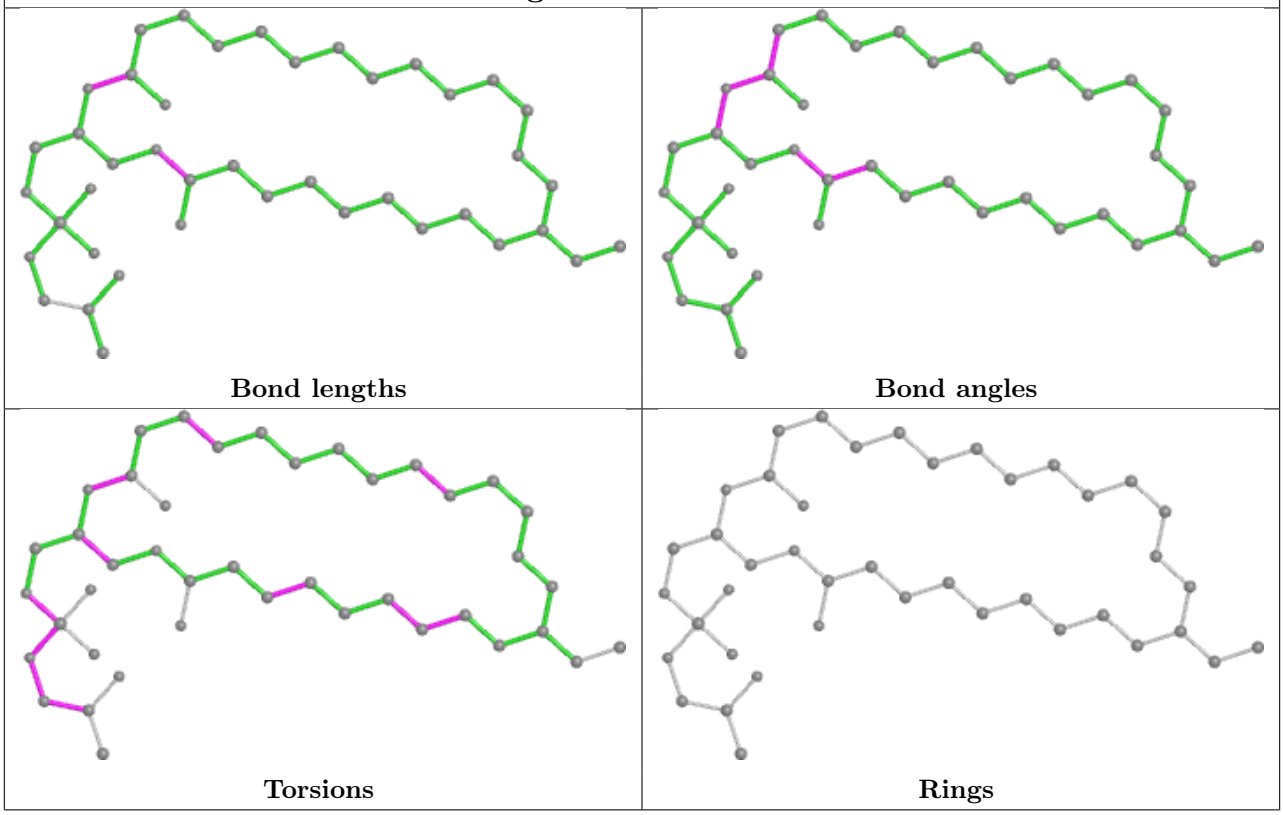
Ligand BCL K 101



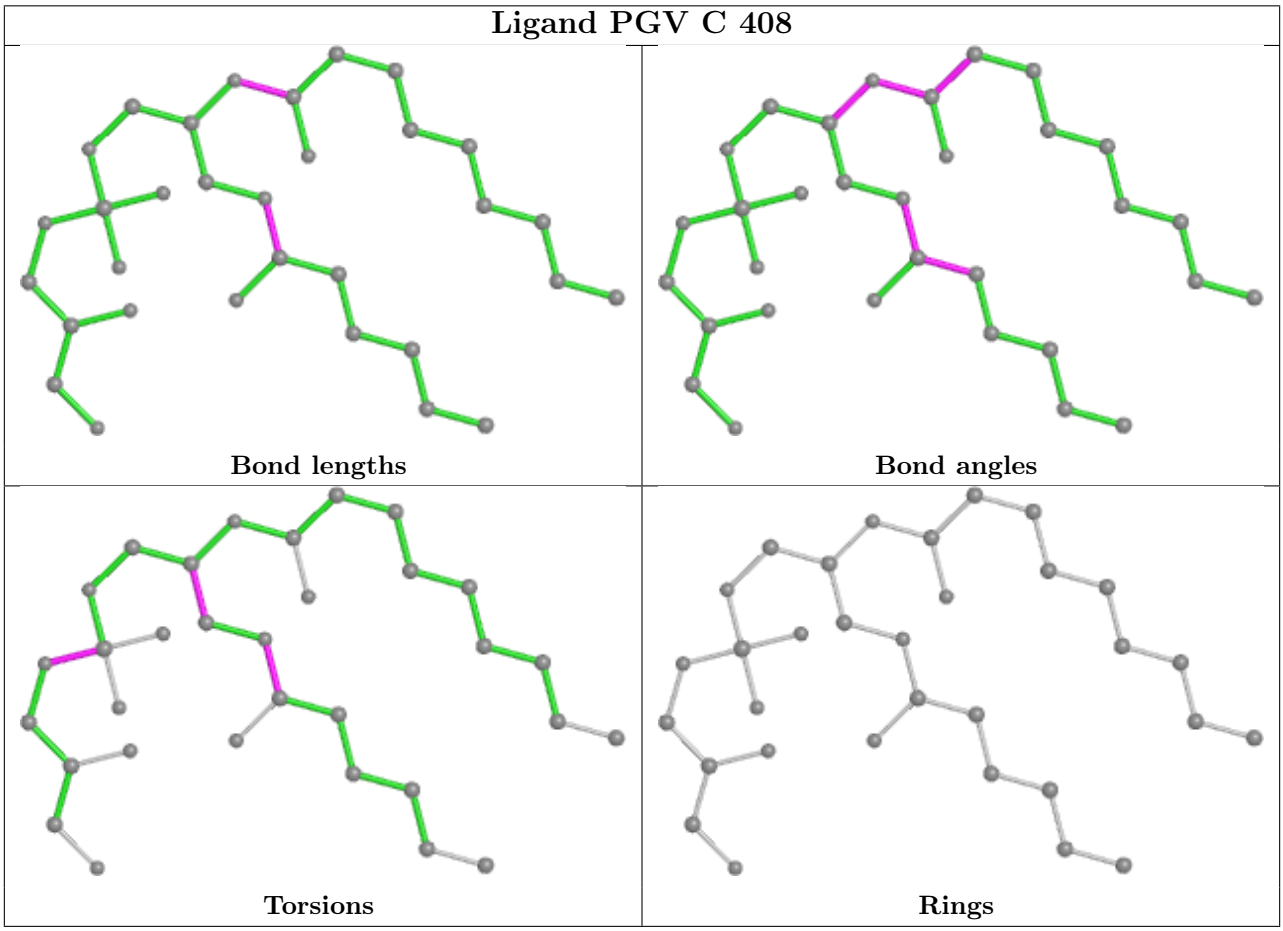
Ligand PGV H 302



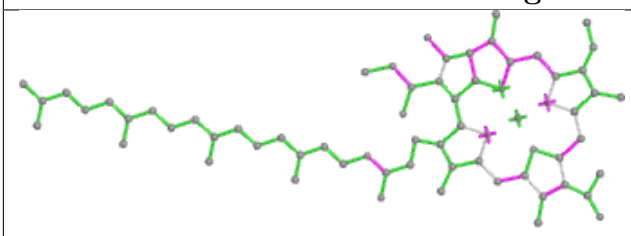
Ligand PGV 6 103



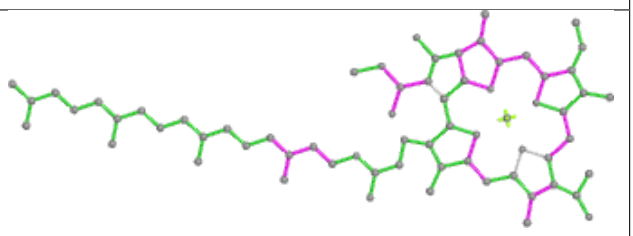
Ligand PGV C 408



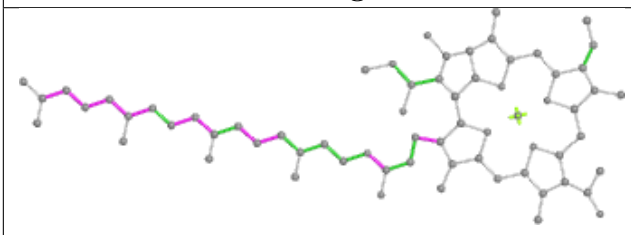
Ligand BCL N 103



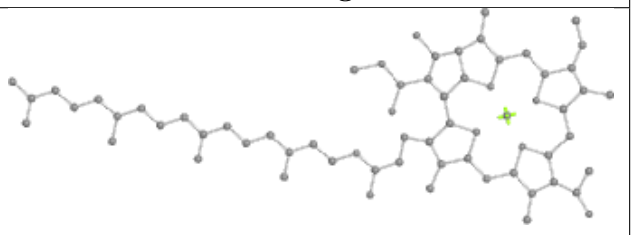
Bond lengths



Bond angles

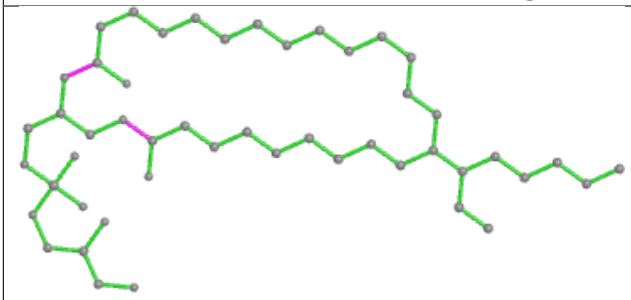


Torsions

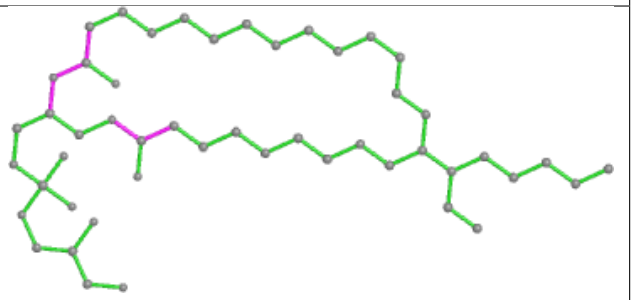


Rings

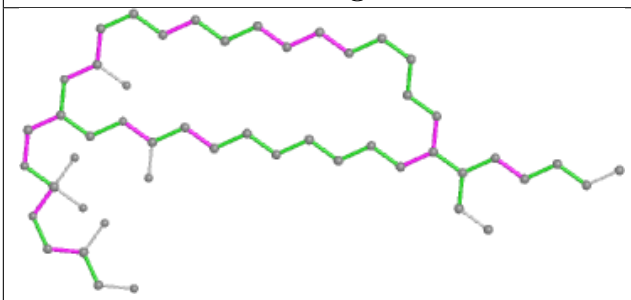
Ligand PGV O 102



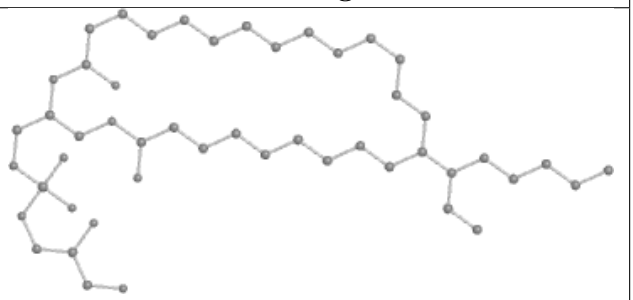
Bond lengths



Bond angles

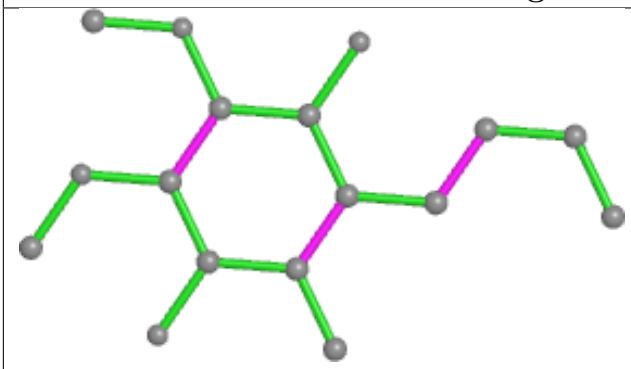


Torsions

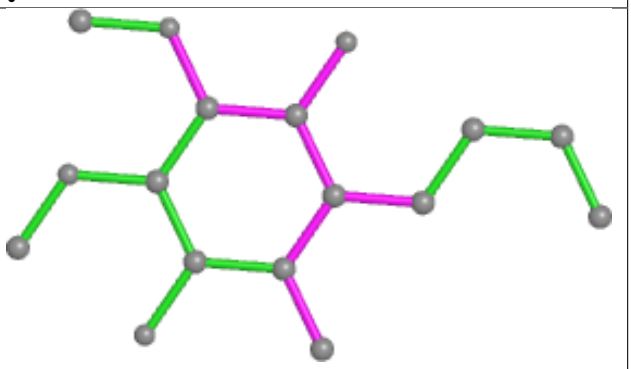


Rings

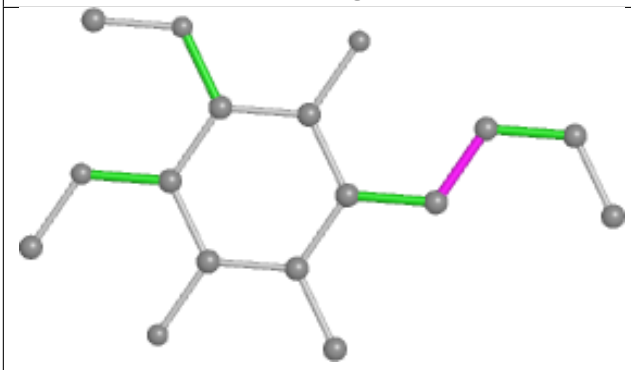
Ligand UQ8 L 307



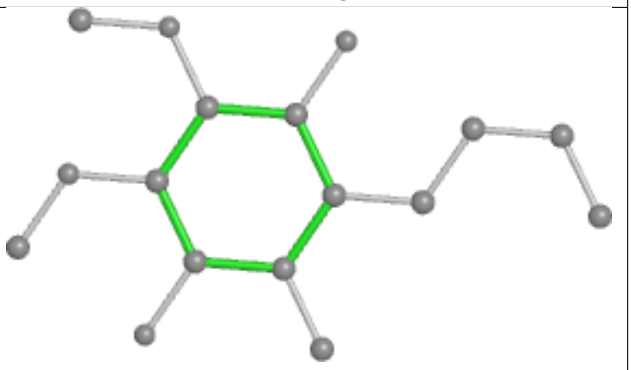
Bond lengths



Bond angles

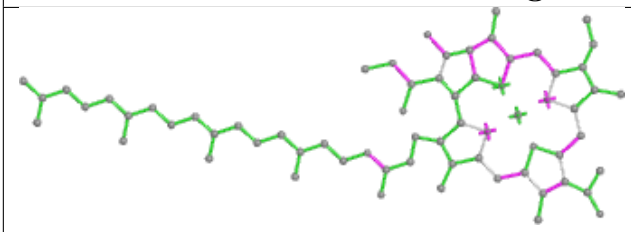


Torsions

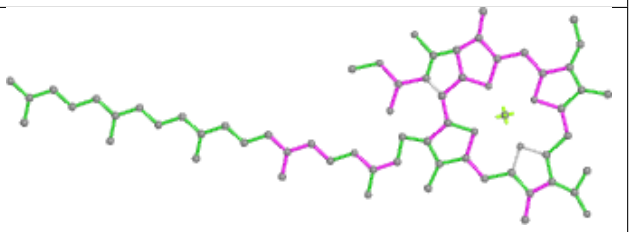


Rings

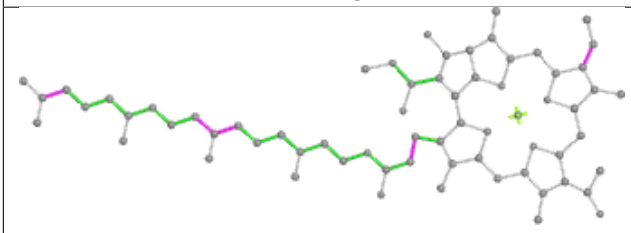
Ligand BCL E 101



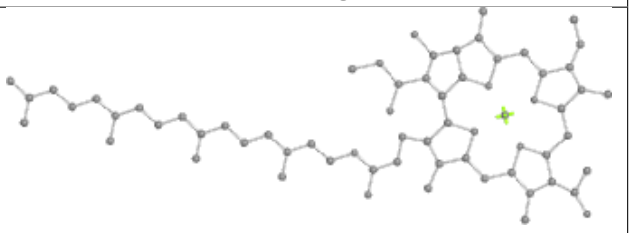
Bond lengths



Bond angles

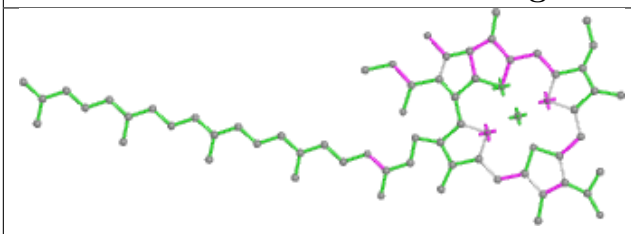


Torsions



Rings

Ligand BCL 0 102



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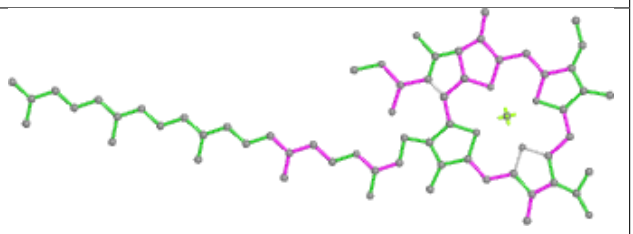

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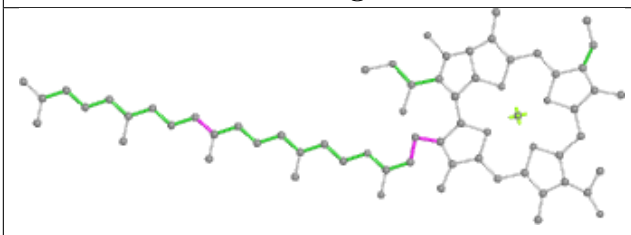

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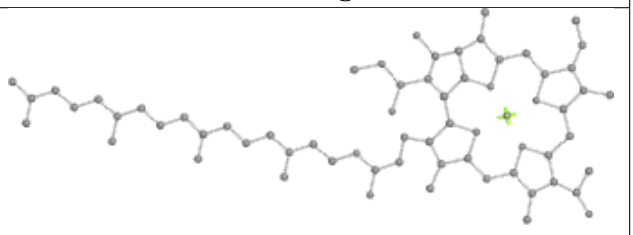
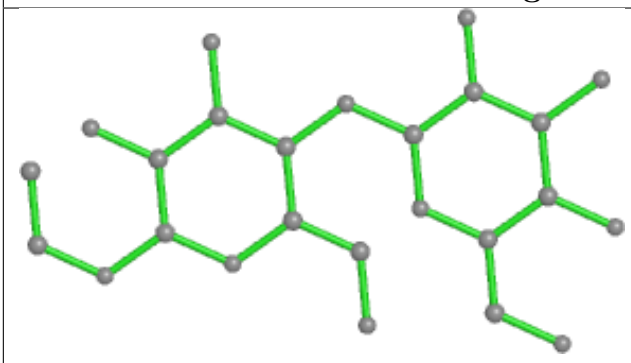


Rings

Ligand LMT L 301



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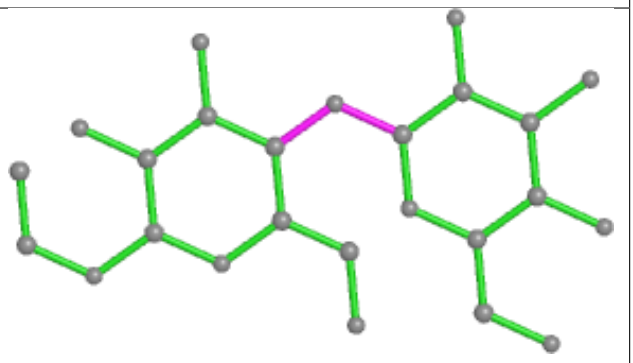
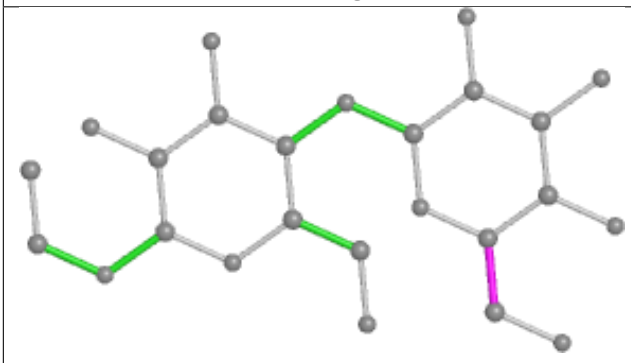


Bond angles



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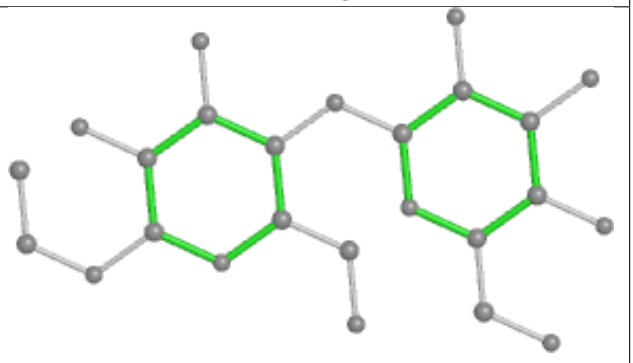
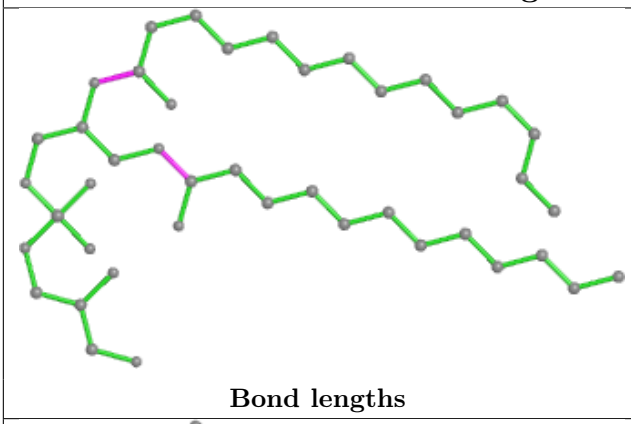


Rings

Ligand PGV V 103



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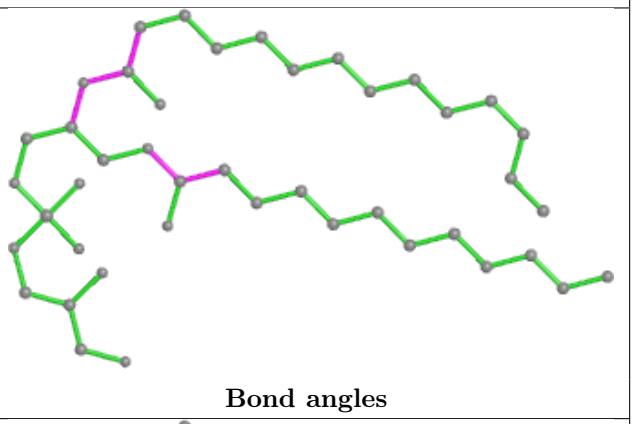

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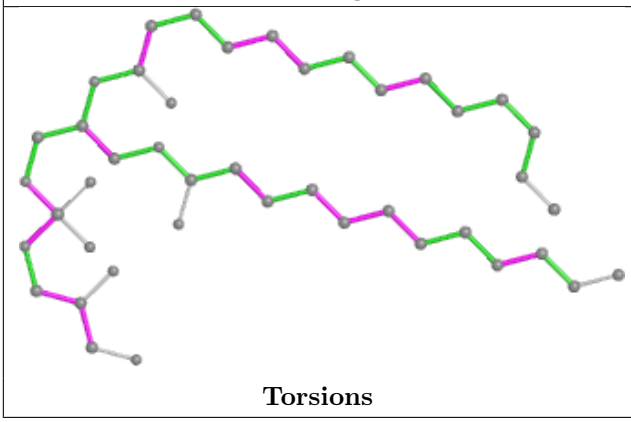

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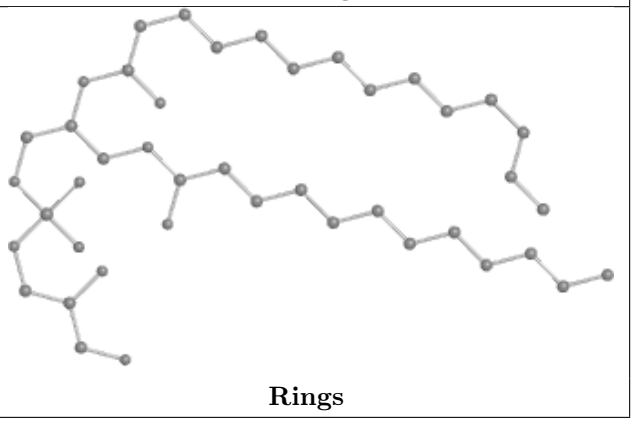
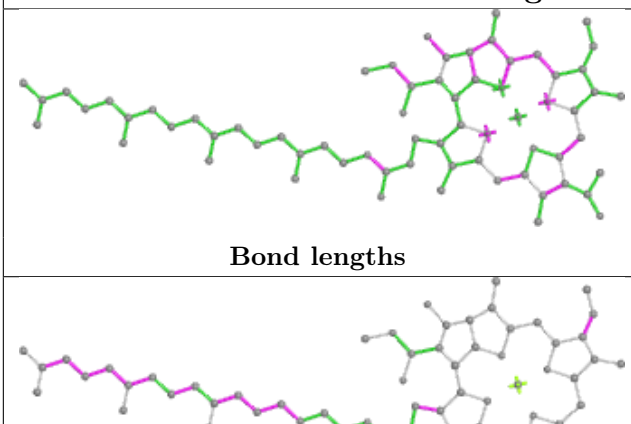


Rings

Ligand BCL R 102



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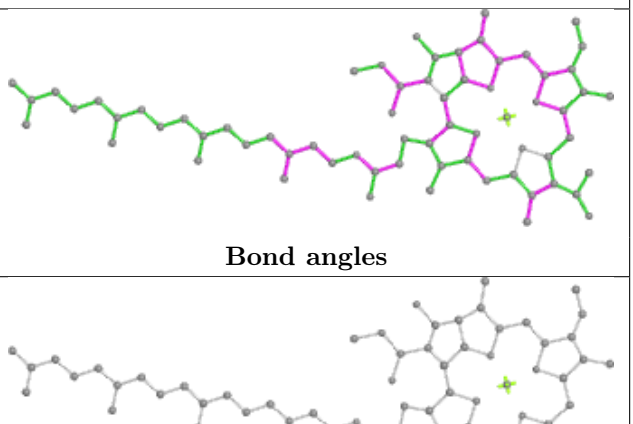

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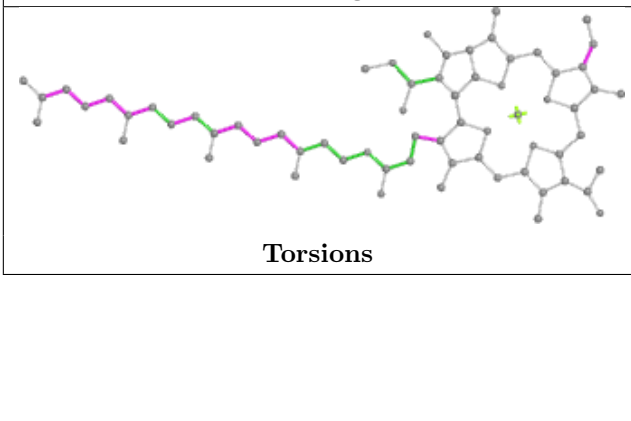

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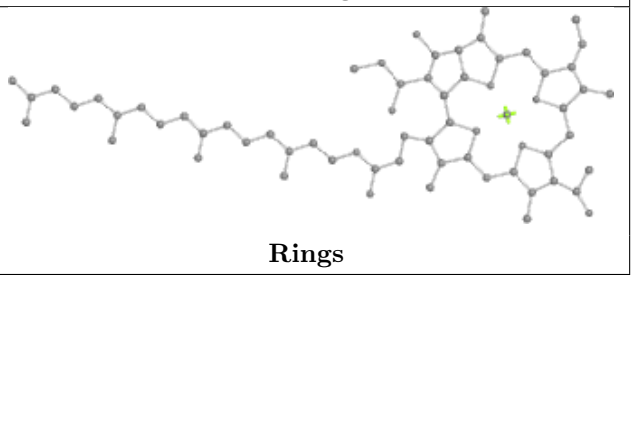
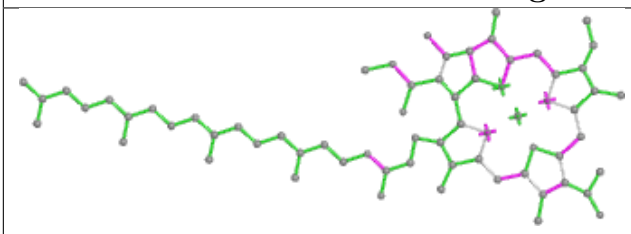


Rings

Ligand BCL 8 102



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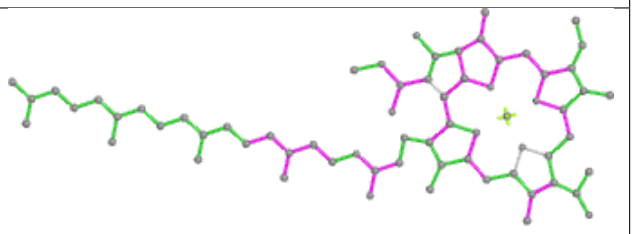

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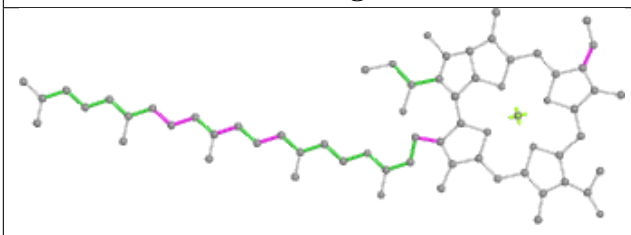

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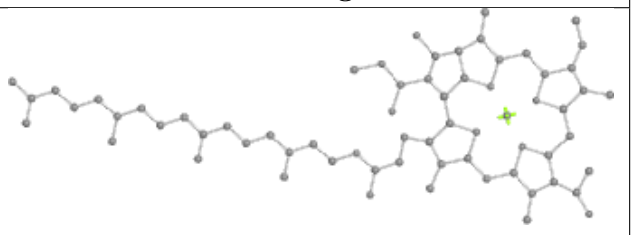
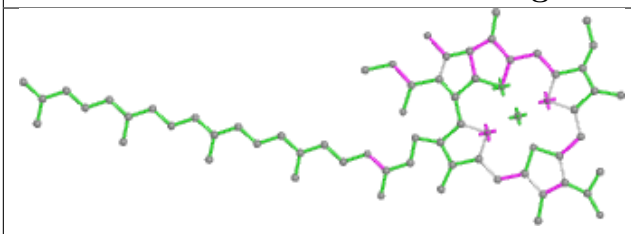


Rings

Ligand BCL I 103



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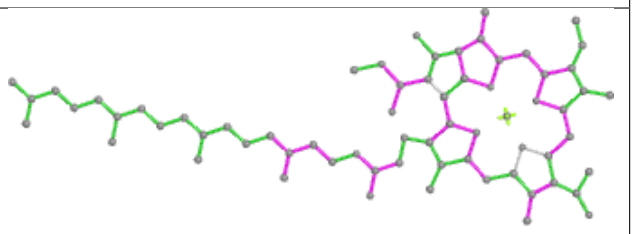

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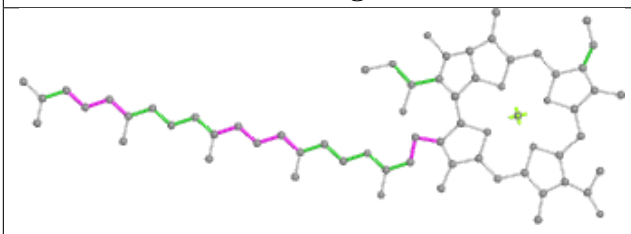

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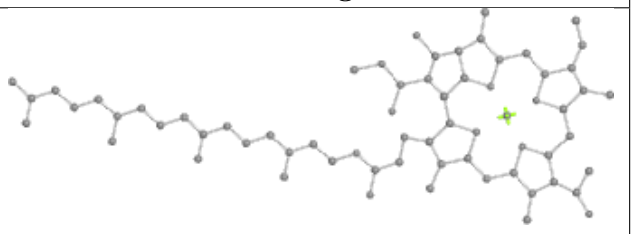
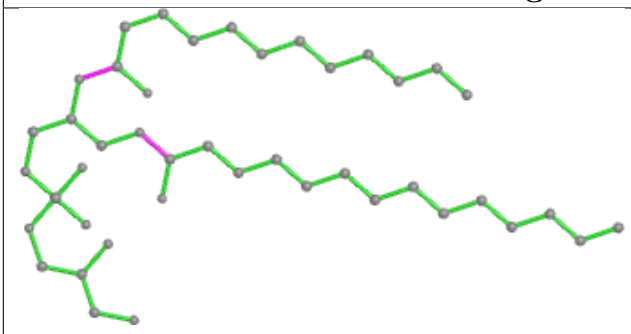


Rings

Ligand PGV 6 104



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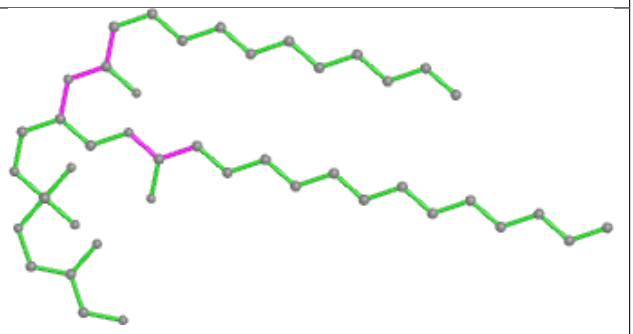

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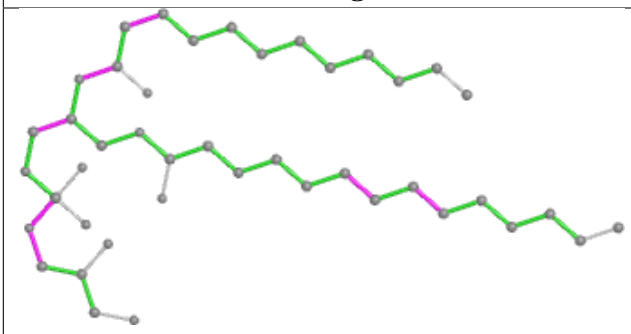

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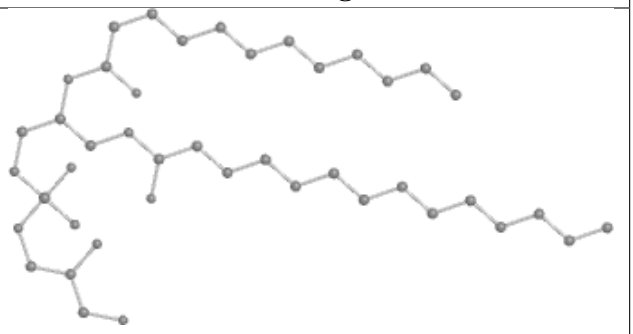
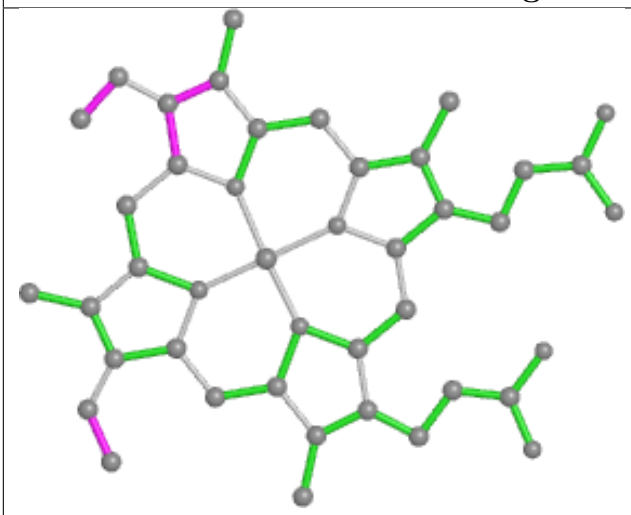


Rings

Ligand HEC C 403



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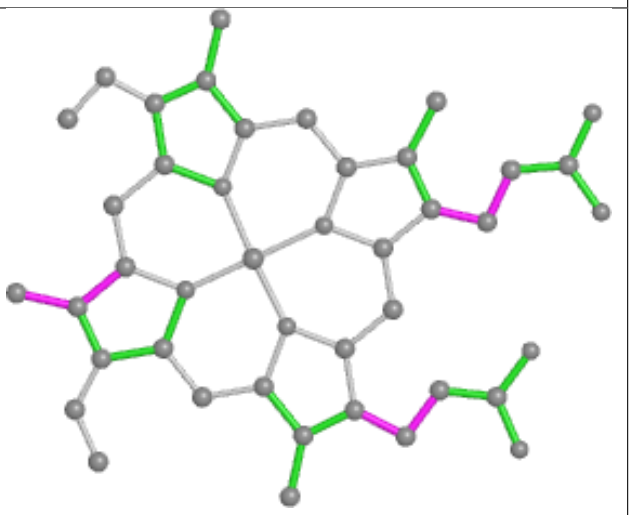
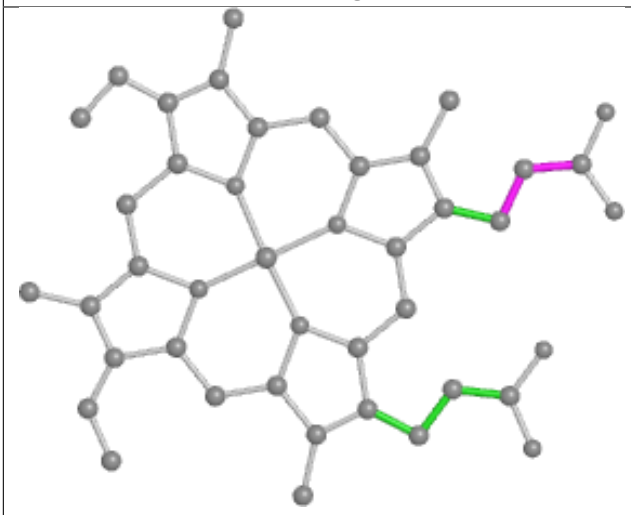


Bond angles



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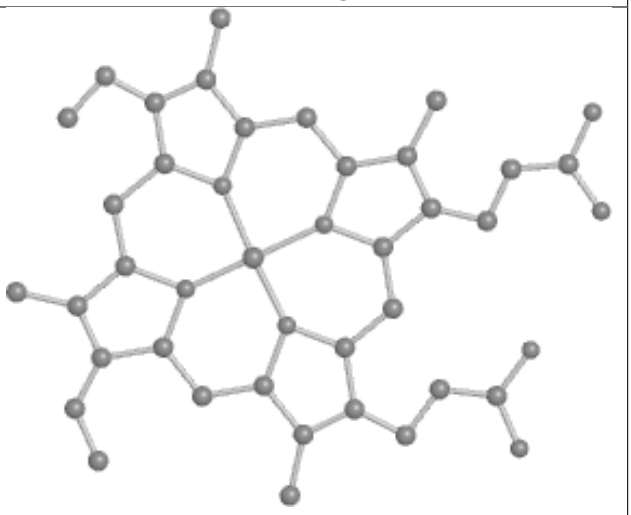
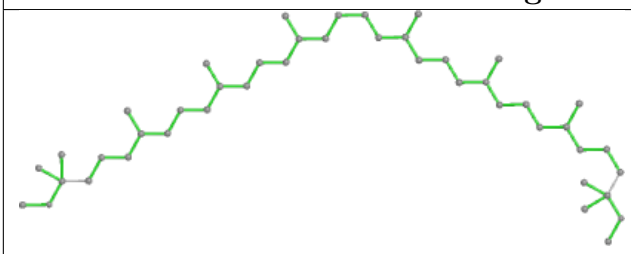


Rings

Ligand CRT B 101



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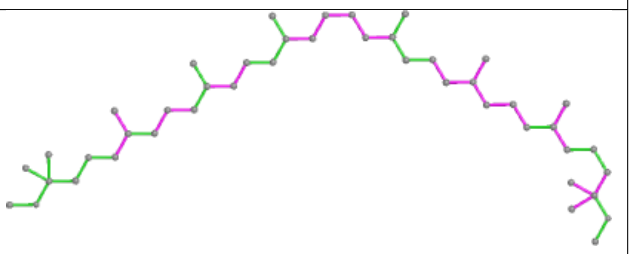
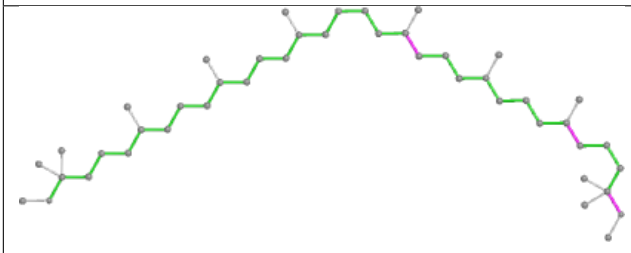


Bond angles



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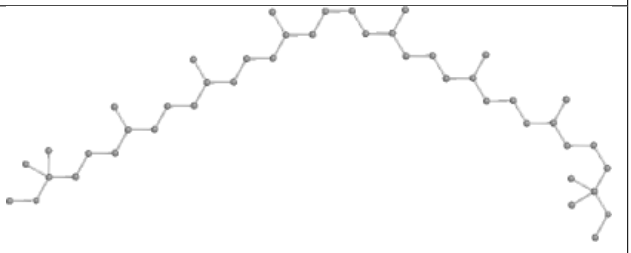
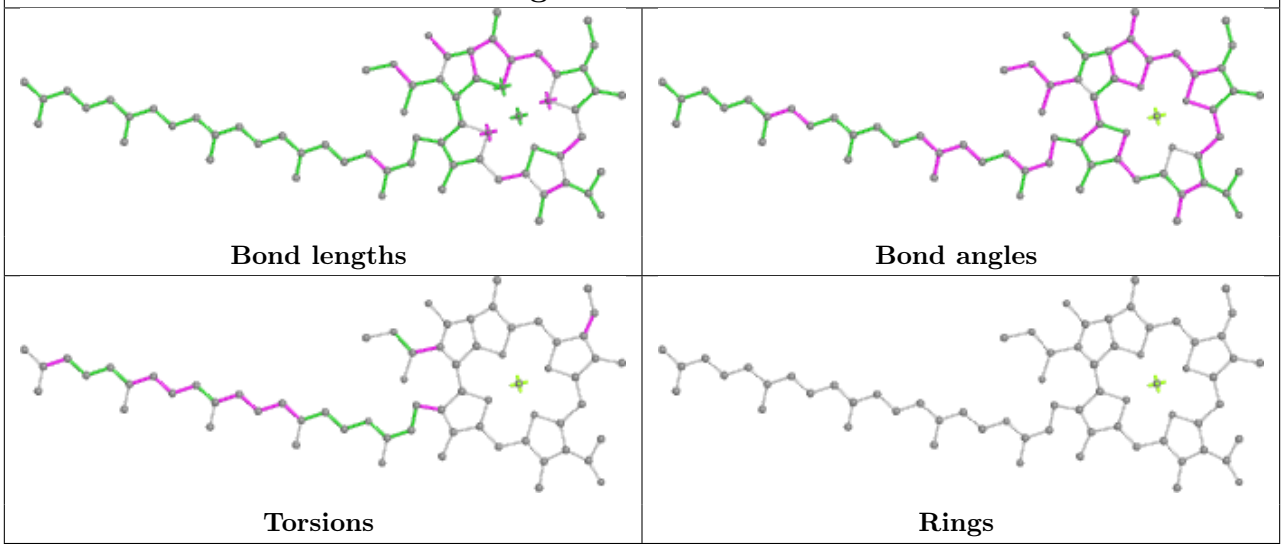
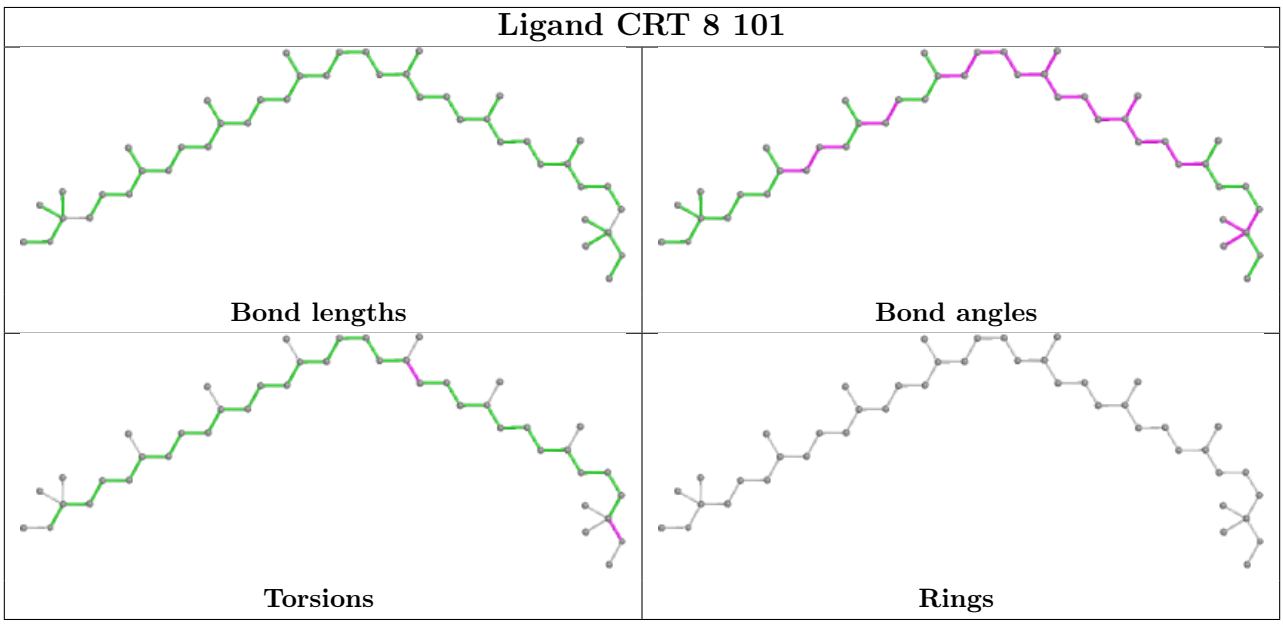


Rings

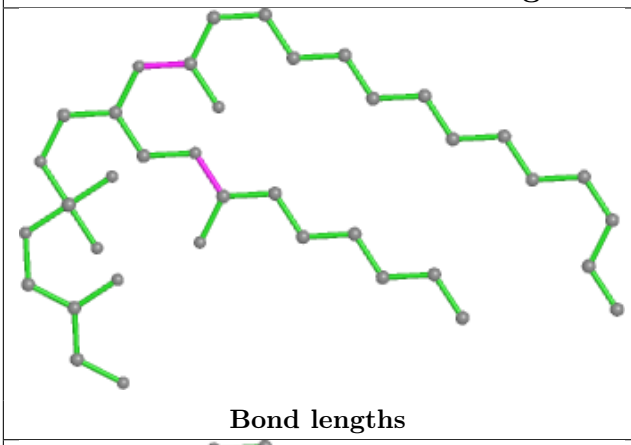
Ligand BCL 1 103



Ligand CRT 8 101



Ligand PGV E 102



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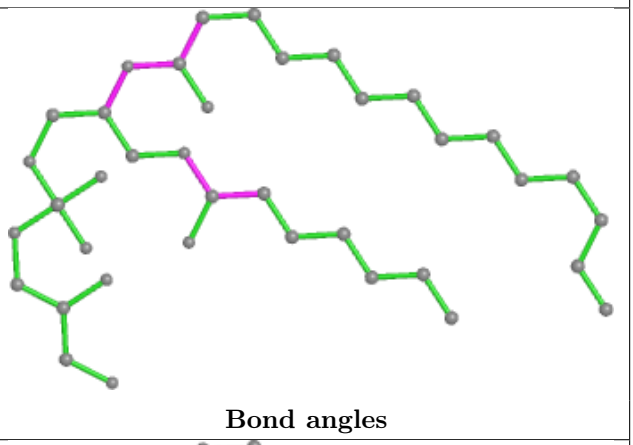
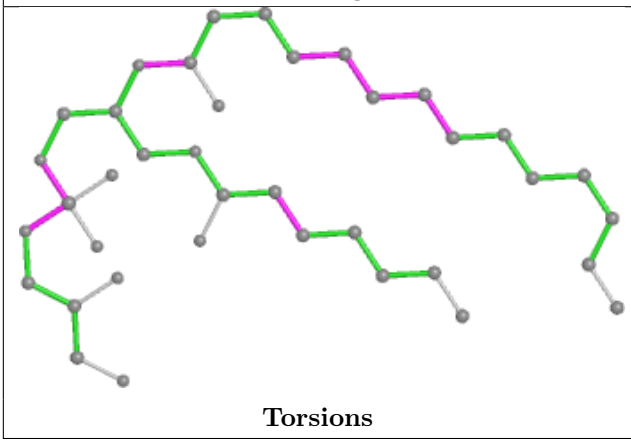
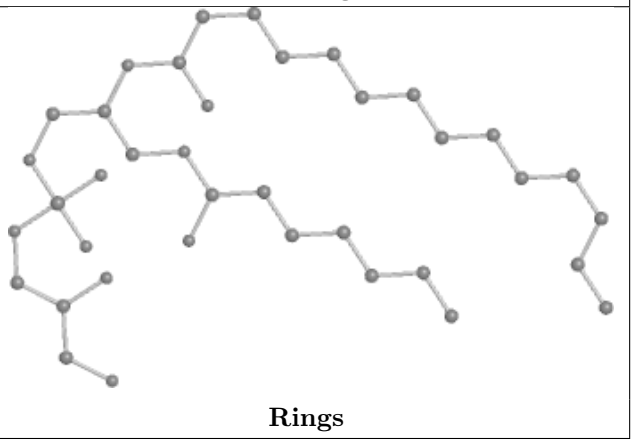


Bond angles

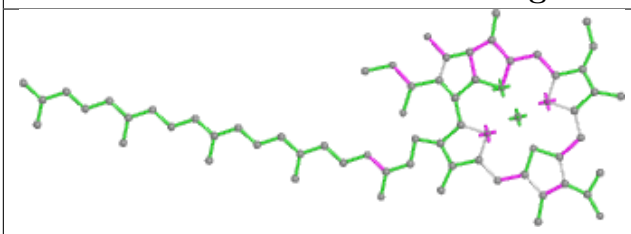


Torsions

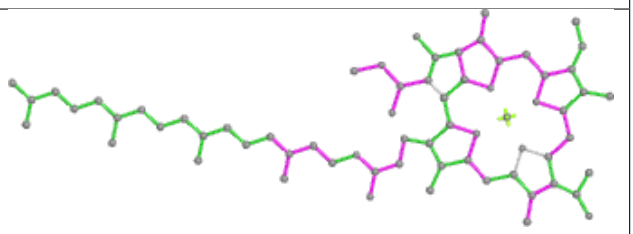


Rings

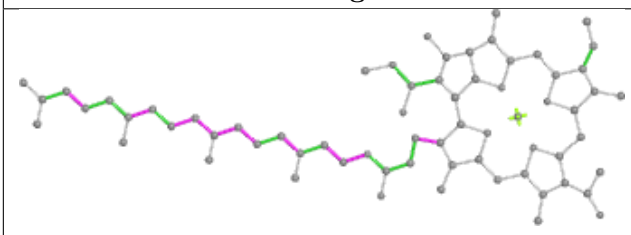
Ligand BCL 5 103



Bond lengths



Bond angles



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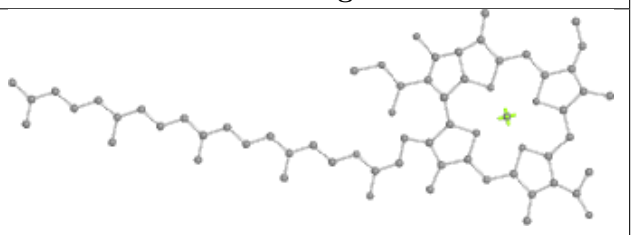
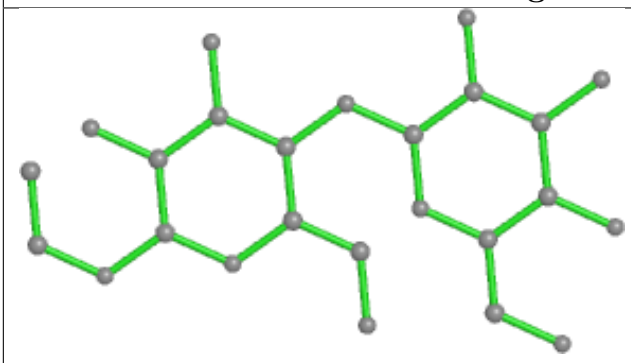


Rings

Ligand LMT I 102



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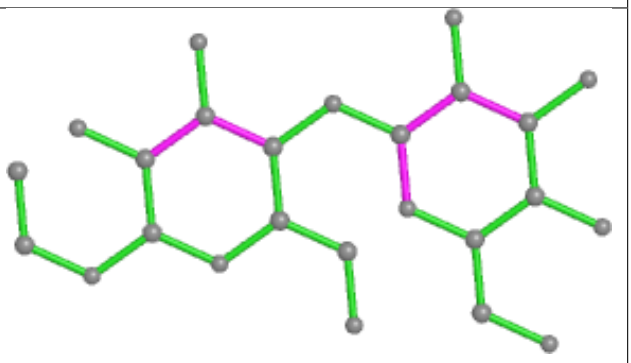
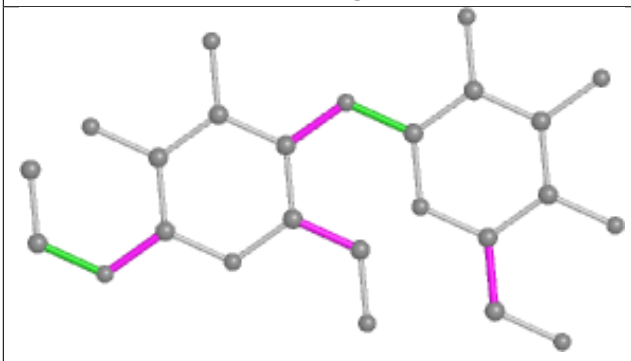
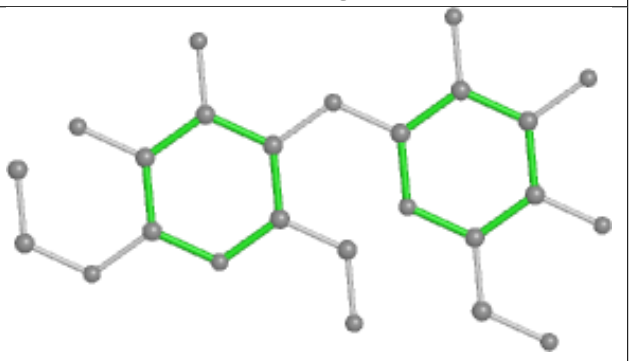


Bond angles

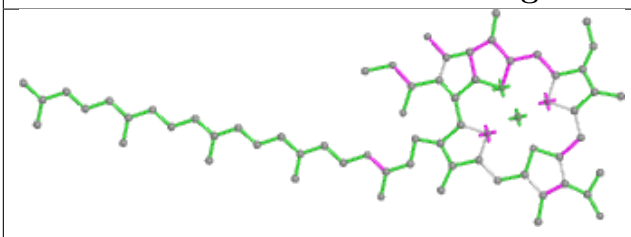


Torsions



Rings

Ligand BCL M 403



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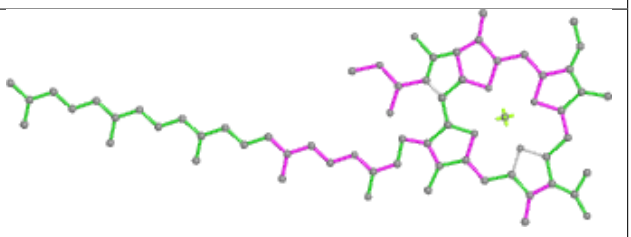
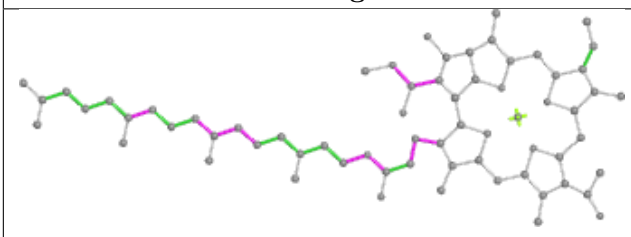
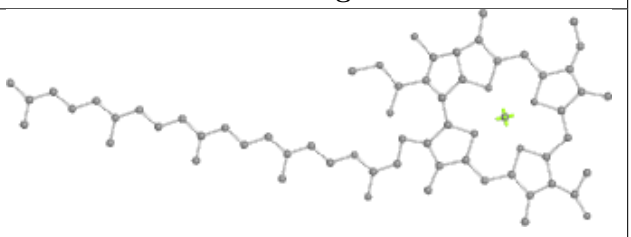


Bond angles

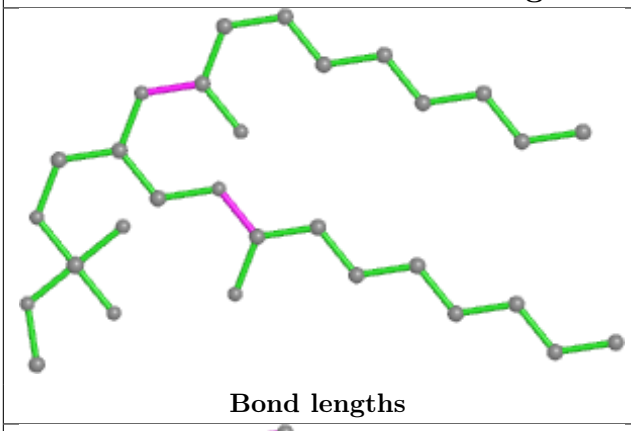


Torsions

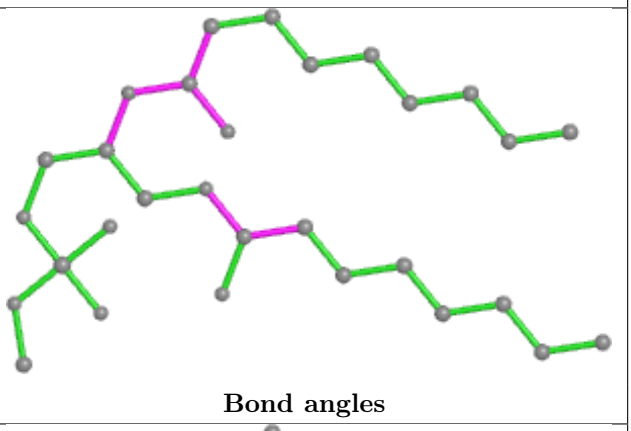


Rings

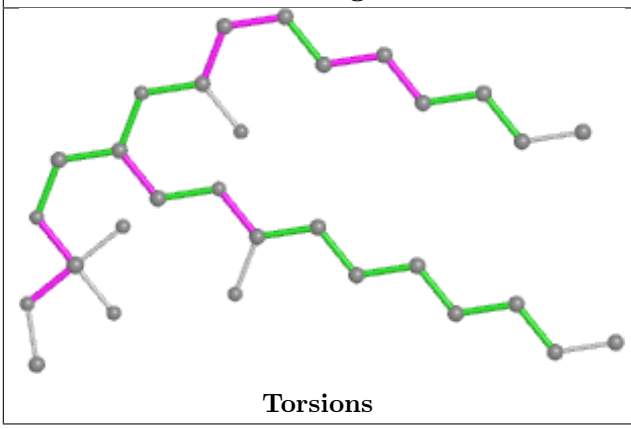
Ligand PGV 3 101



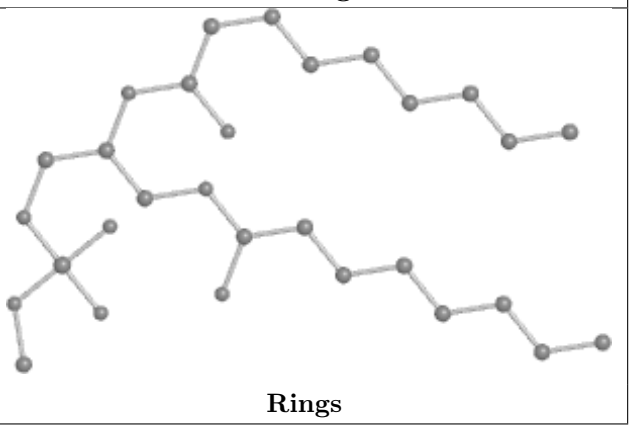
Bond lengths



Bond angles

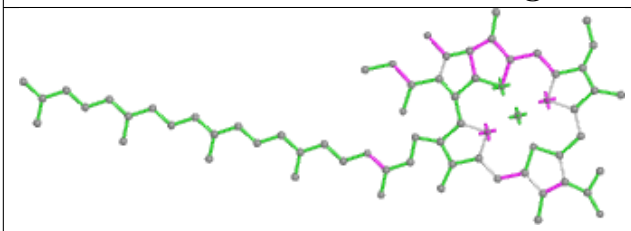


Torsions

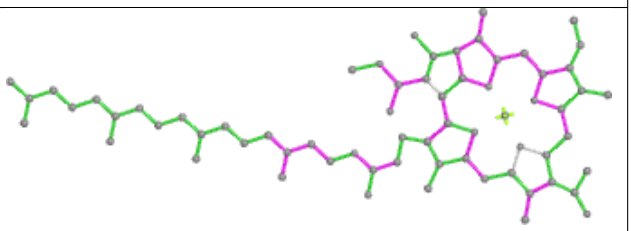


Rings

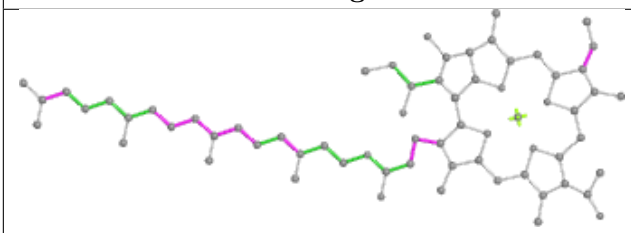
Ligand BCL G 103



Bond lengths



Bond angles



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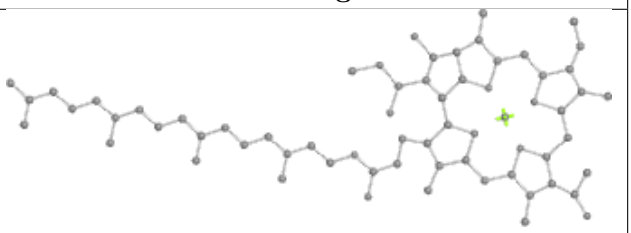
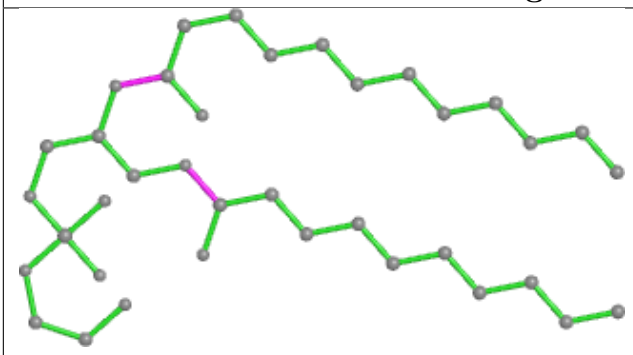


Rings

Ligand PGV 2 103



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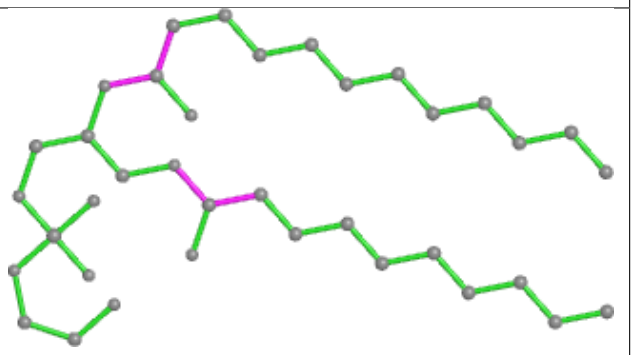
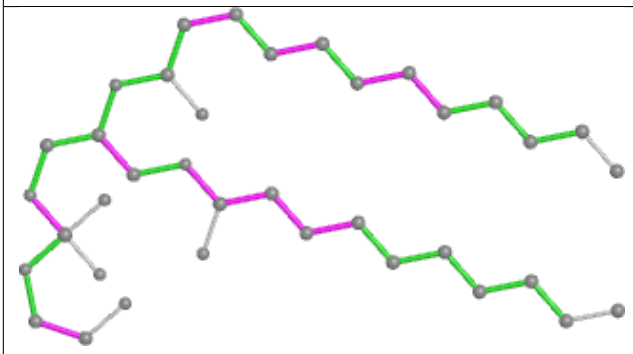


Bond angles



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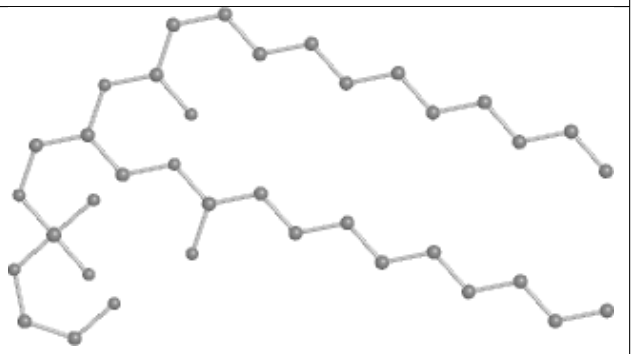
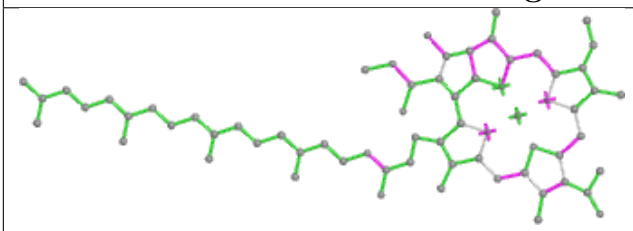
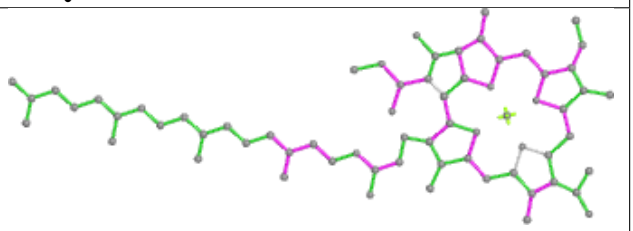


Rings

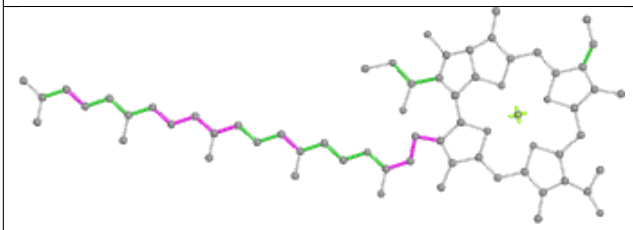
Ligand BCL Q 102



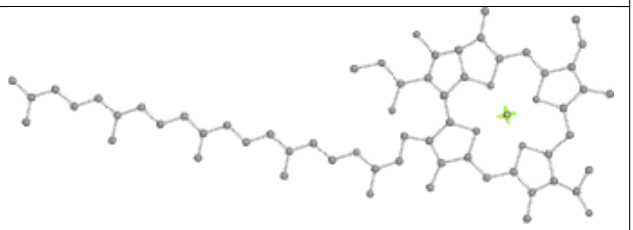
Bond lengths



Bond angles

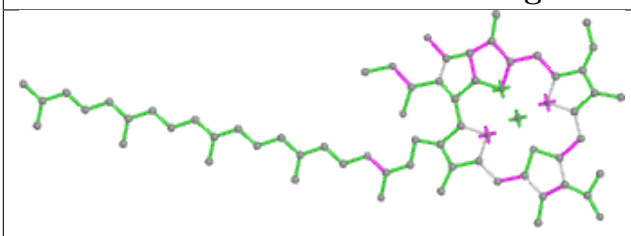


Torsions

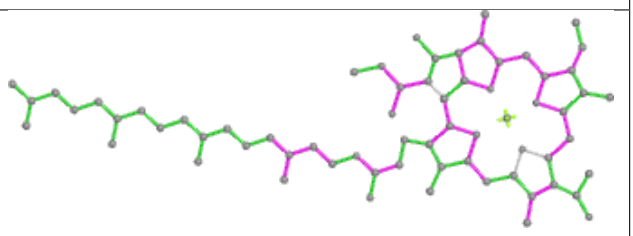


Rings

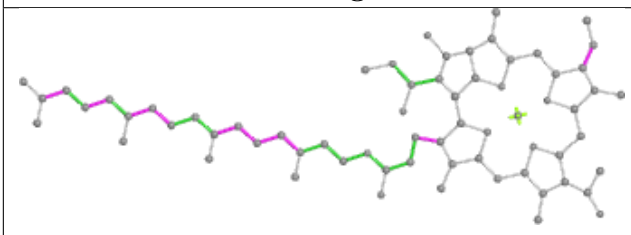
Ligand BCL D 101



Bond lengths



Bond angles



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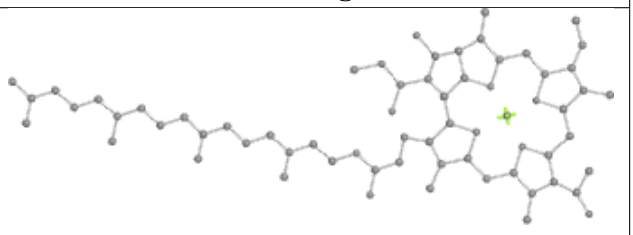
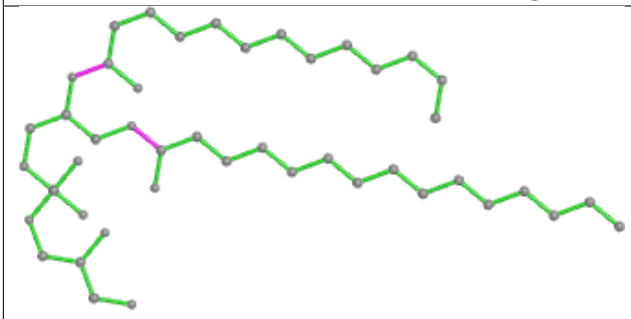


Rings

Ligand PGV 1 101



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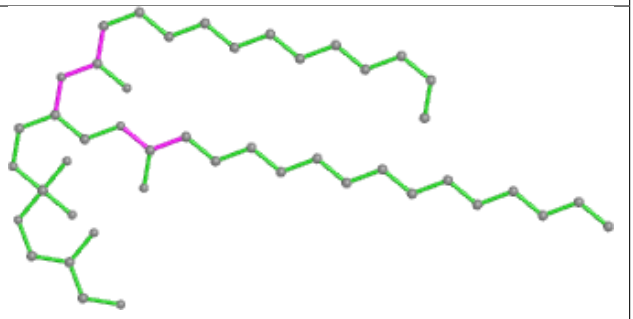
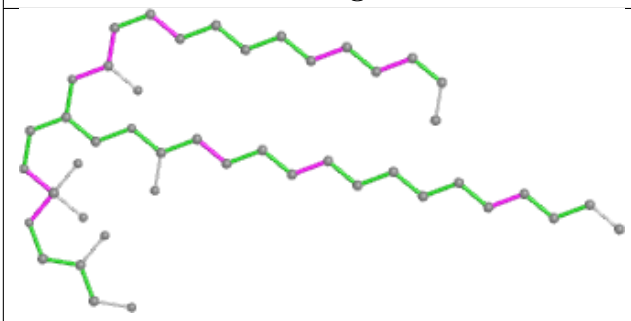


Bond angles



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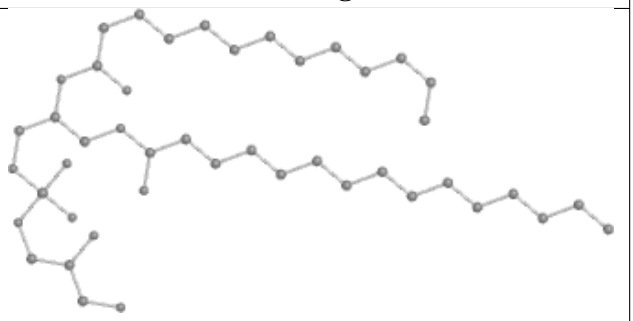
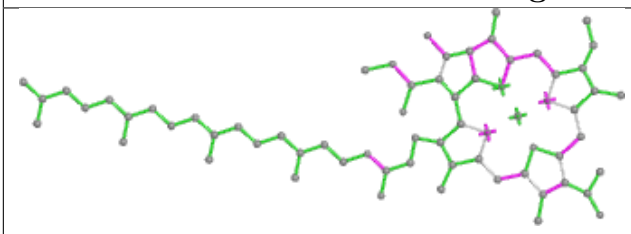
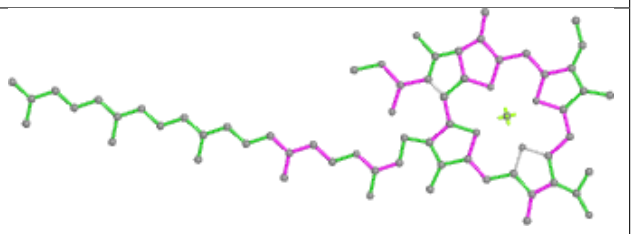


Rings

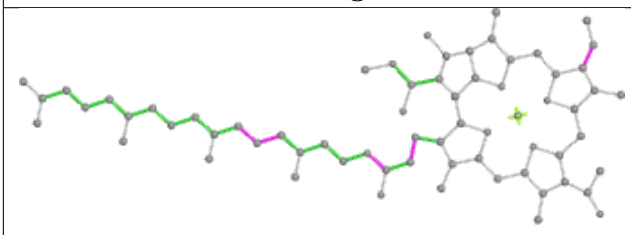
Ligand BCL 6 102



Bond lengths



Bond angles



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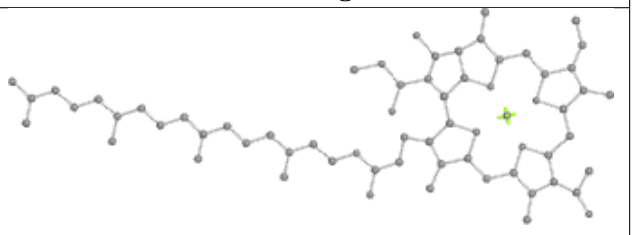
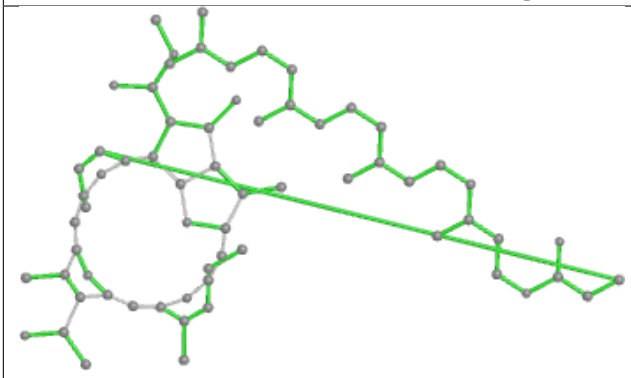
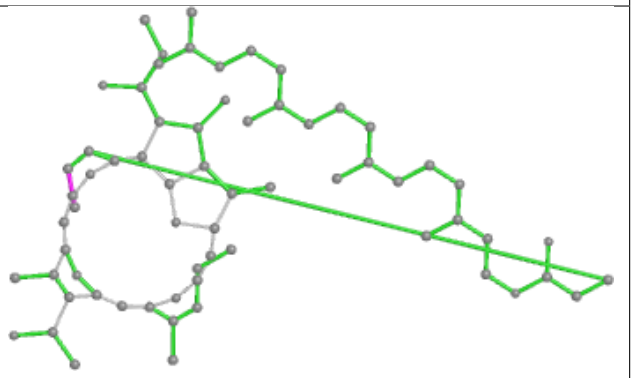


Rings

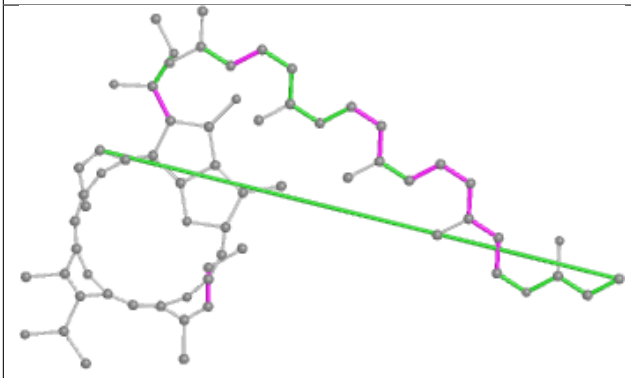
Ligand BPH M 404



Bond lengths



Bond angles



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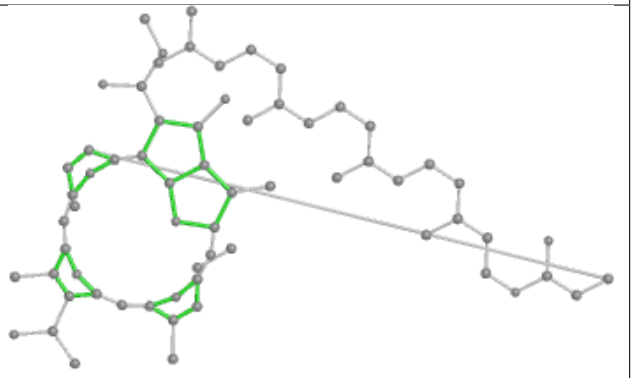
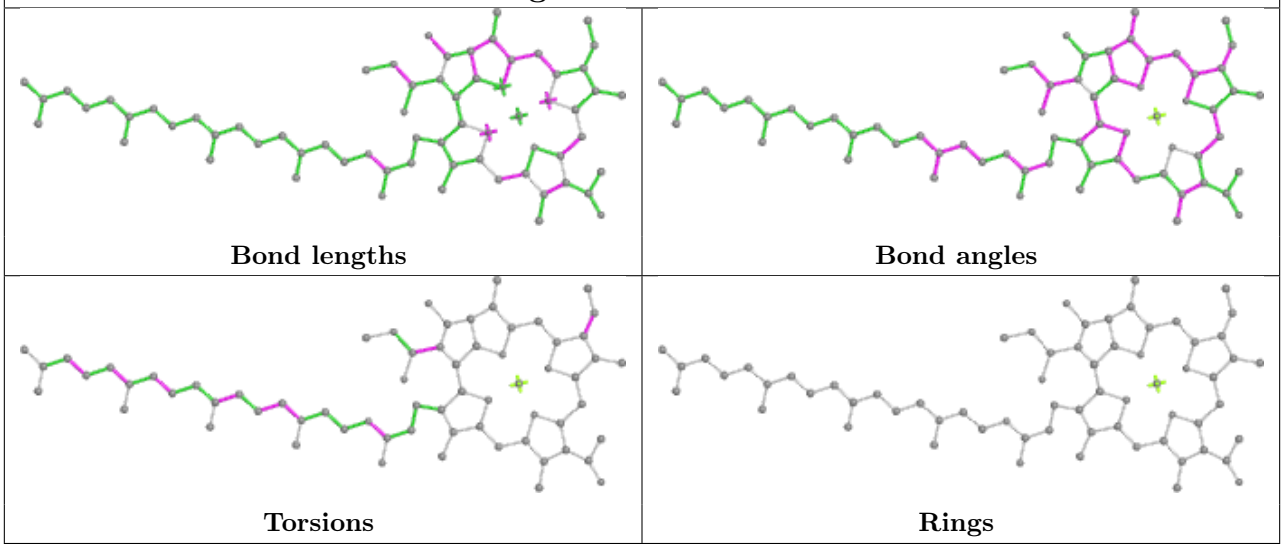
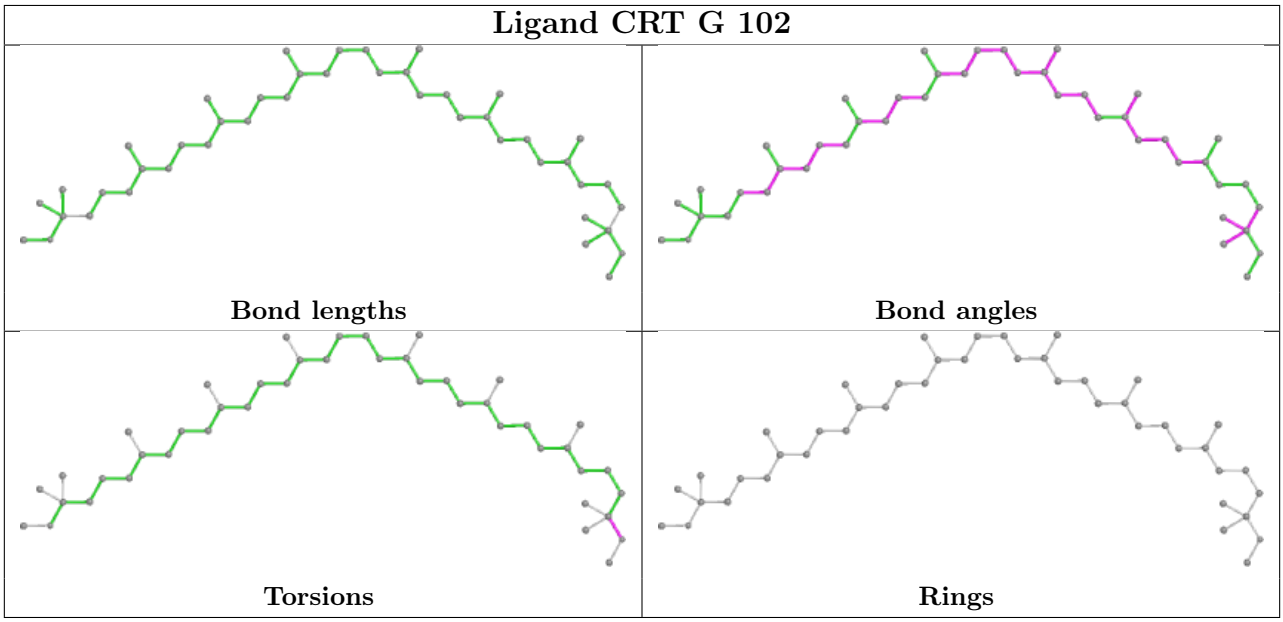


Rings

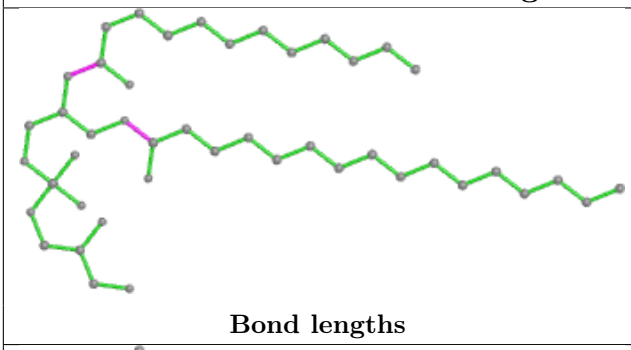
Ligand BCL S 103



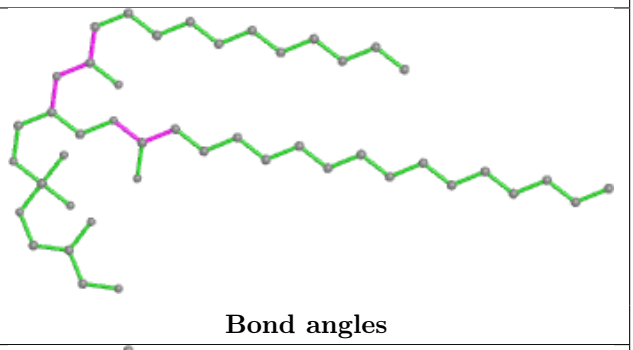
Ligand CRT G 102



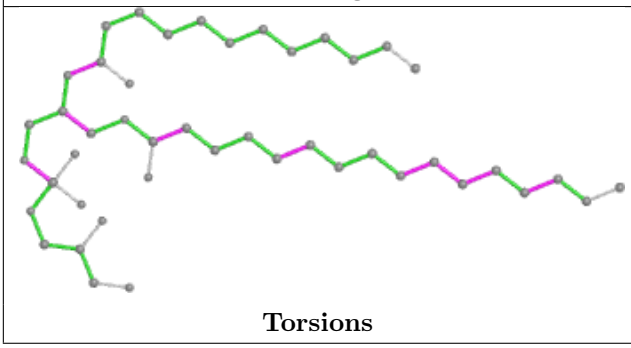
Ligand PGV X 102



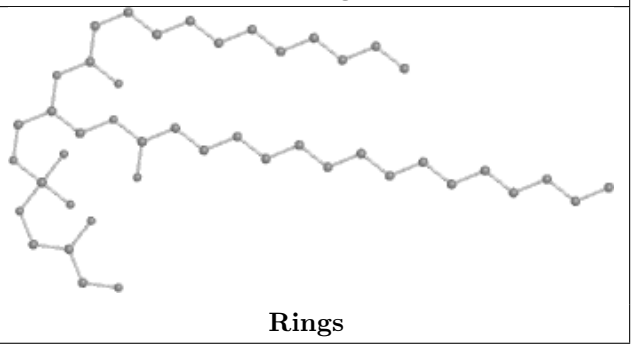
Bond lengths



Bond angles

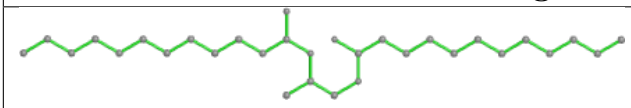


Torsions



Rings

Ligand Z41 C 406



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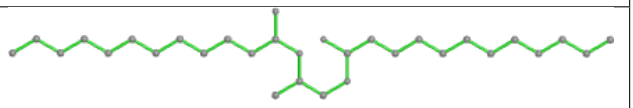
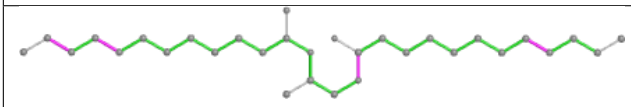
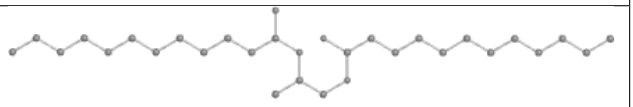


Bond angles

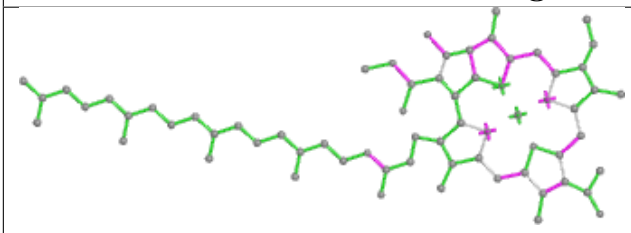


Torsions

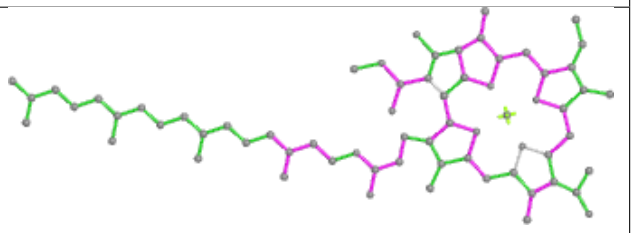


Rings

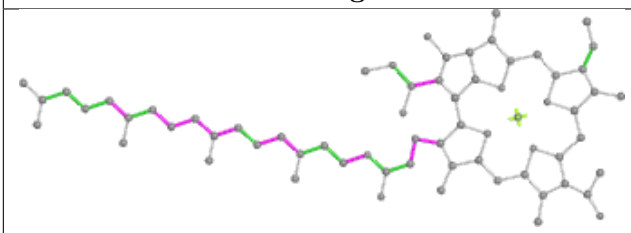
Ligand BCL S 102



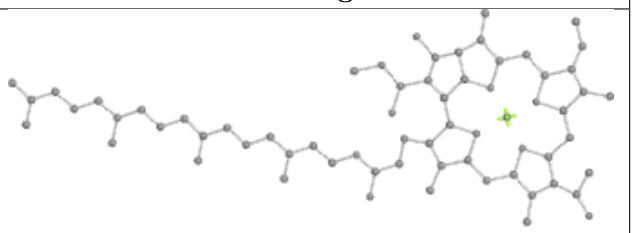
Bond lengths



Bond angles

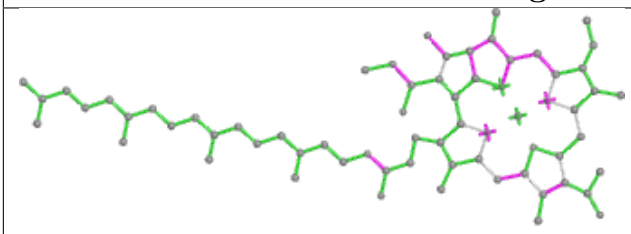


Torsions

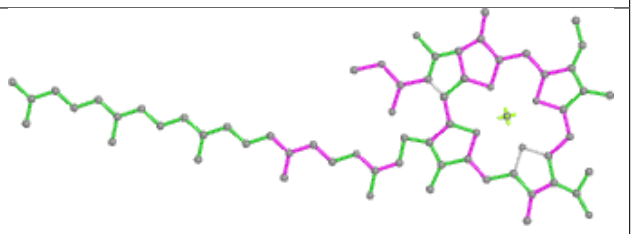


Rings

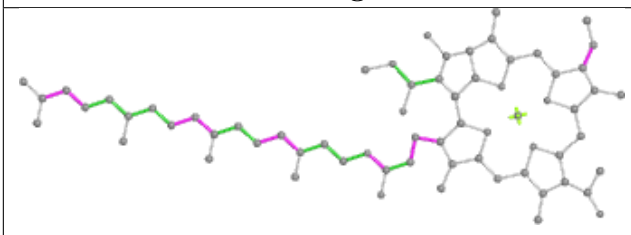
Ligand BCL 3 102



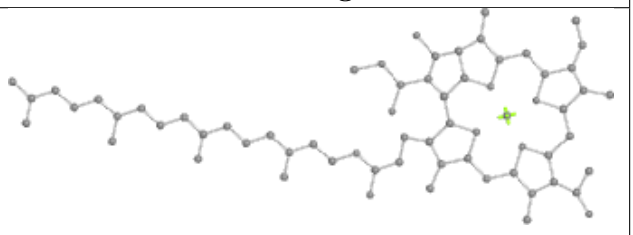
Bond lengths



Bond angles

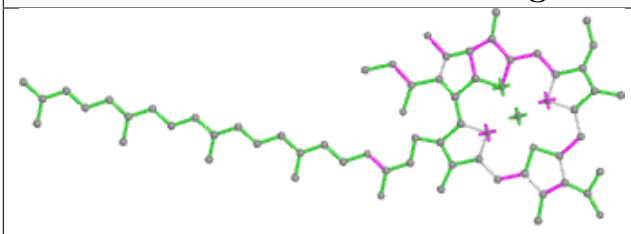


Torsions



Rings

Ligand BCL 9 101



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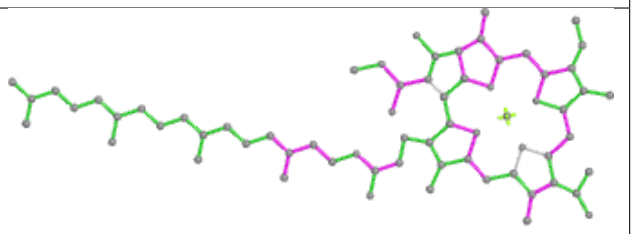
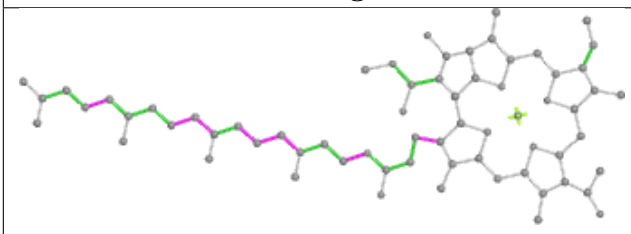
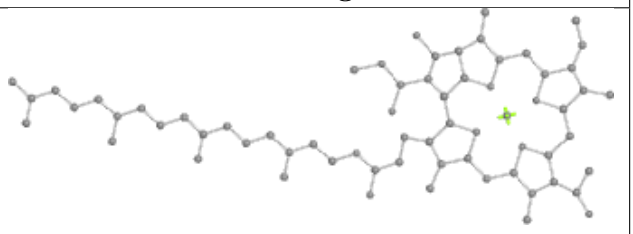


Bond angles

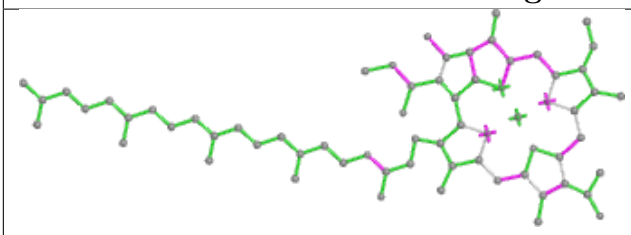


Torsions

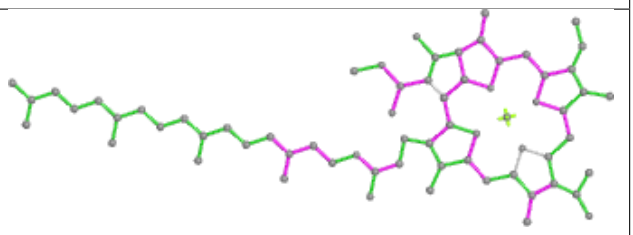


Rings

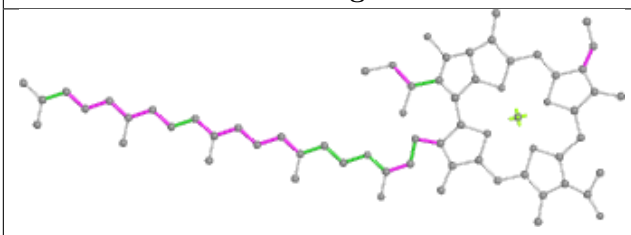
Ligand BCL V 102



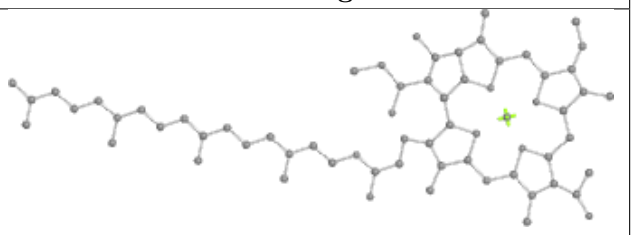
Bond lengths



Bond angles

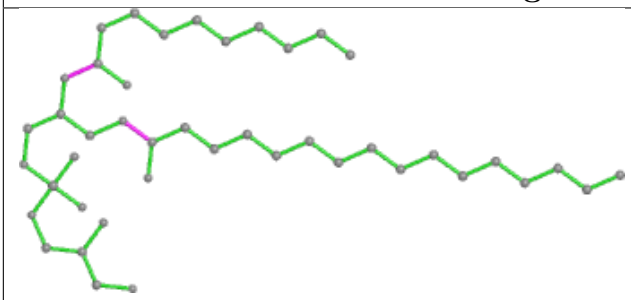


Torsions

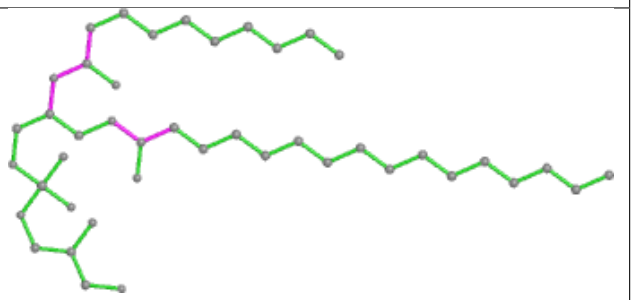


Rings

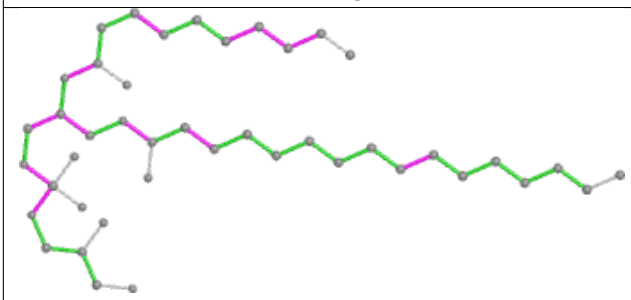
Ligand PGV L 305



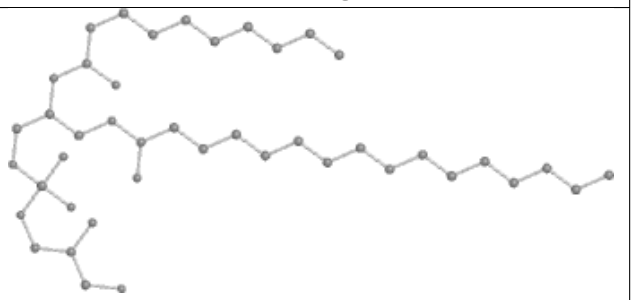
Bond lengths



Bond angles

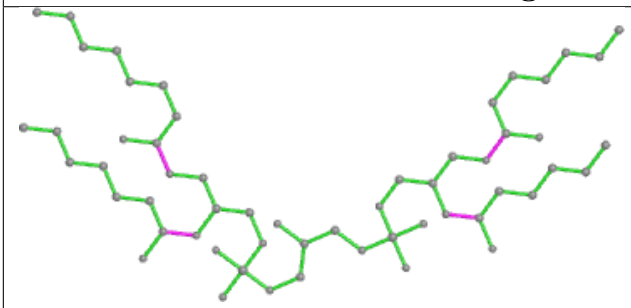


Torsions

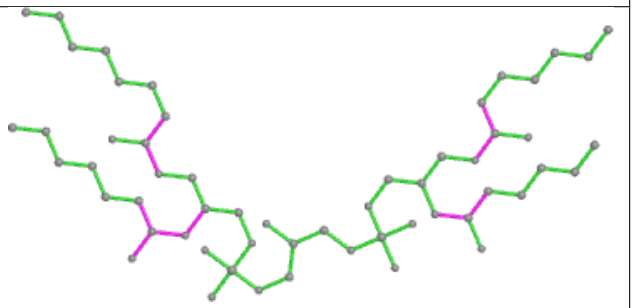


Rings

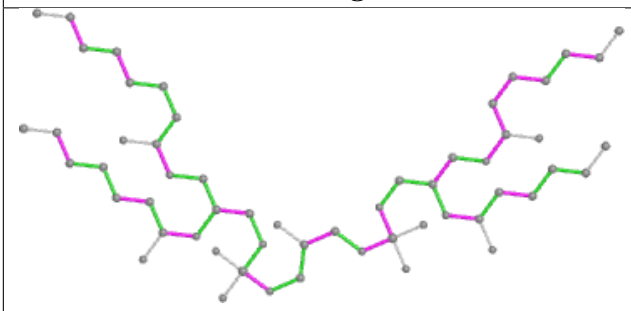
Ligand CDL M 409



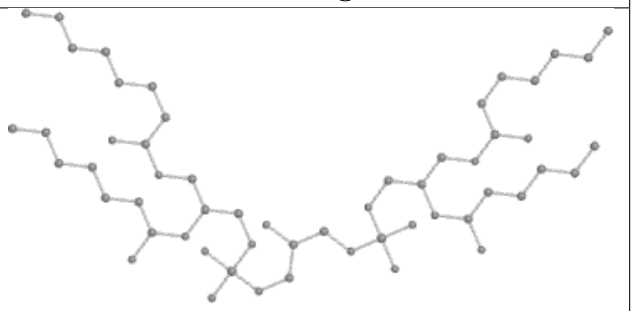
Bond lengths



Bond angles

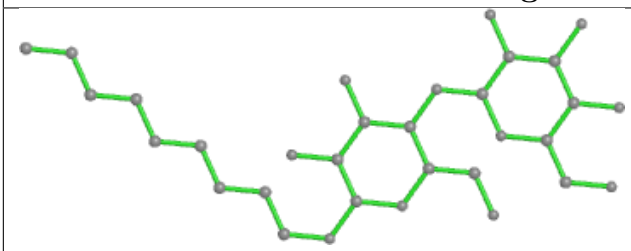


Torsions

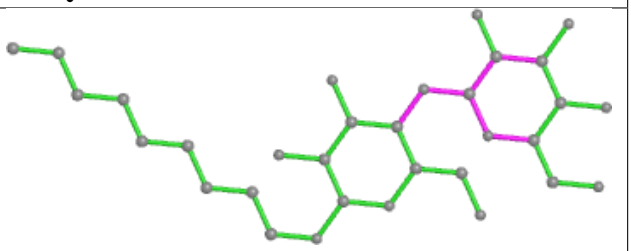


Rings

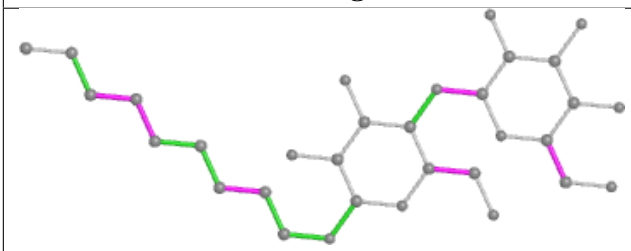
Ligand LMT Q 101



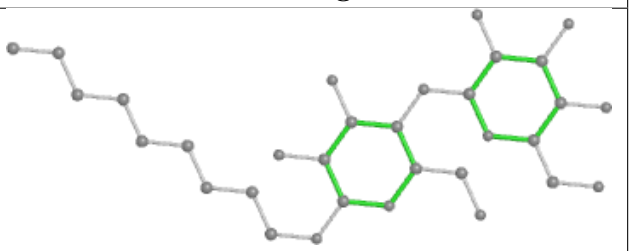
Bond lengths



Bond angles

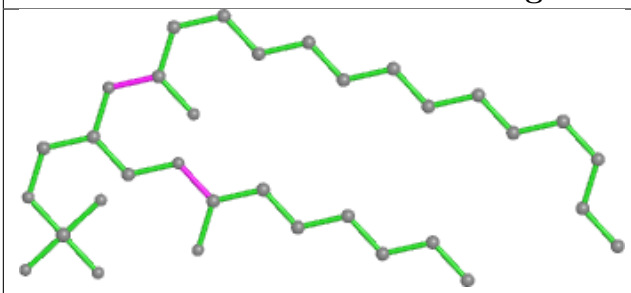


Torsions

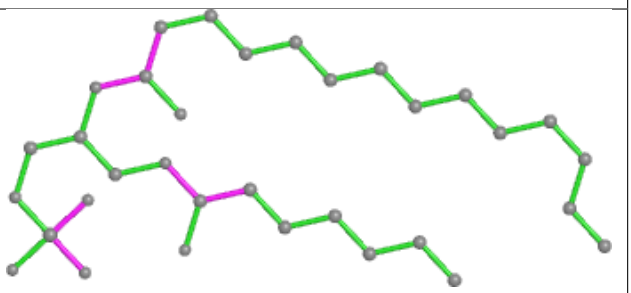


Rings

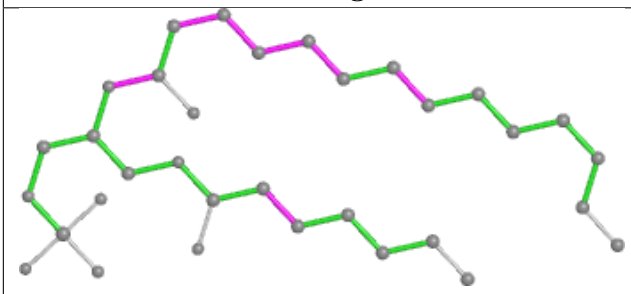
Ligand PGV J 103



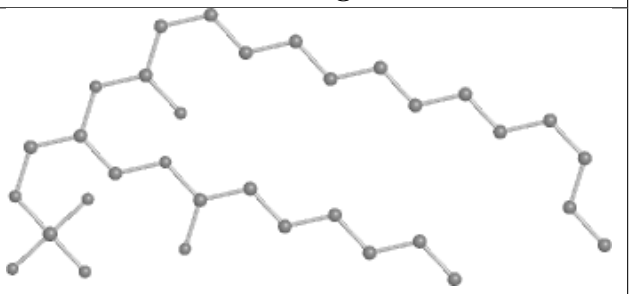
Bond lengths



Bond angles

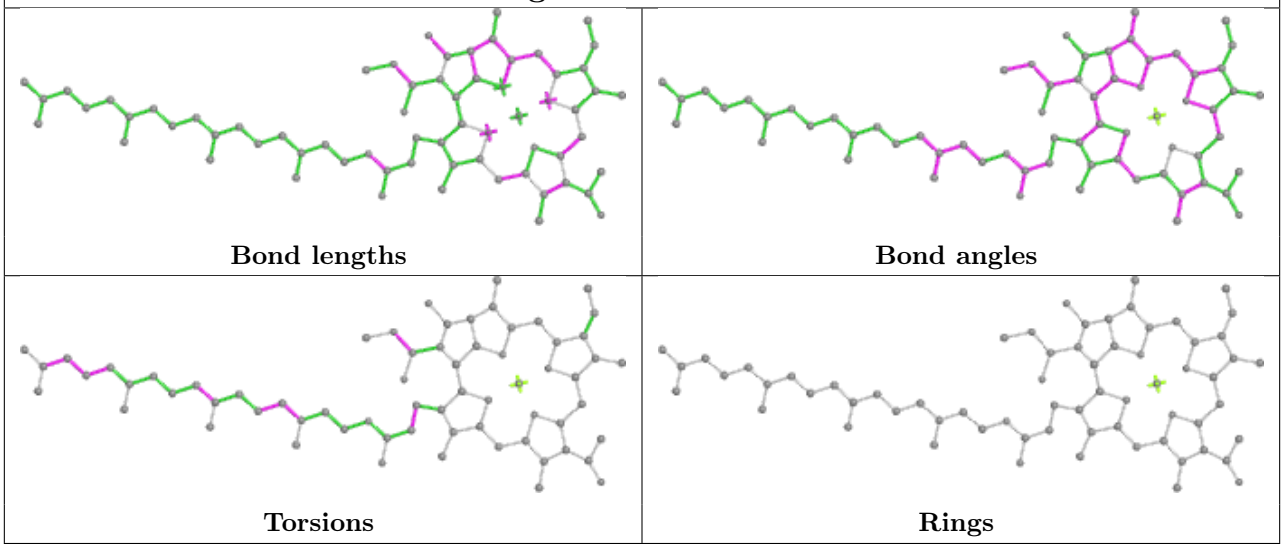


Torsions

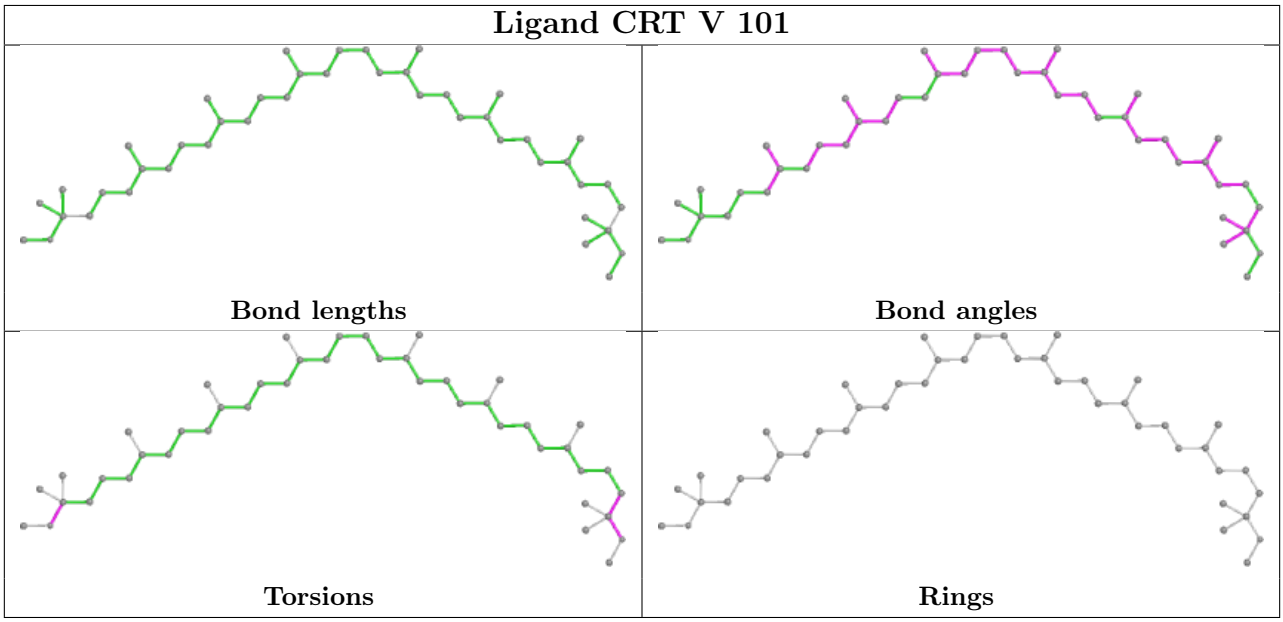


Rings

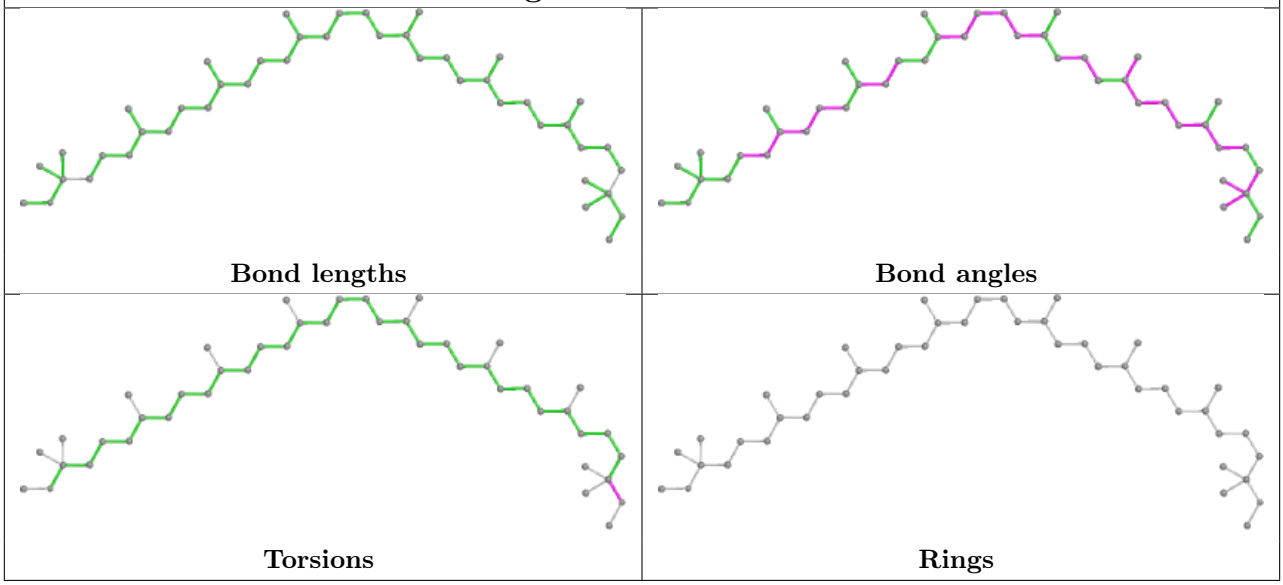
Ligand BCL L 302



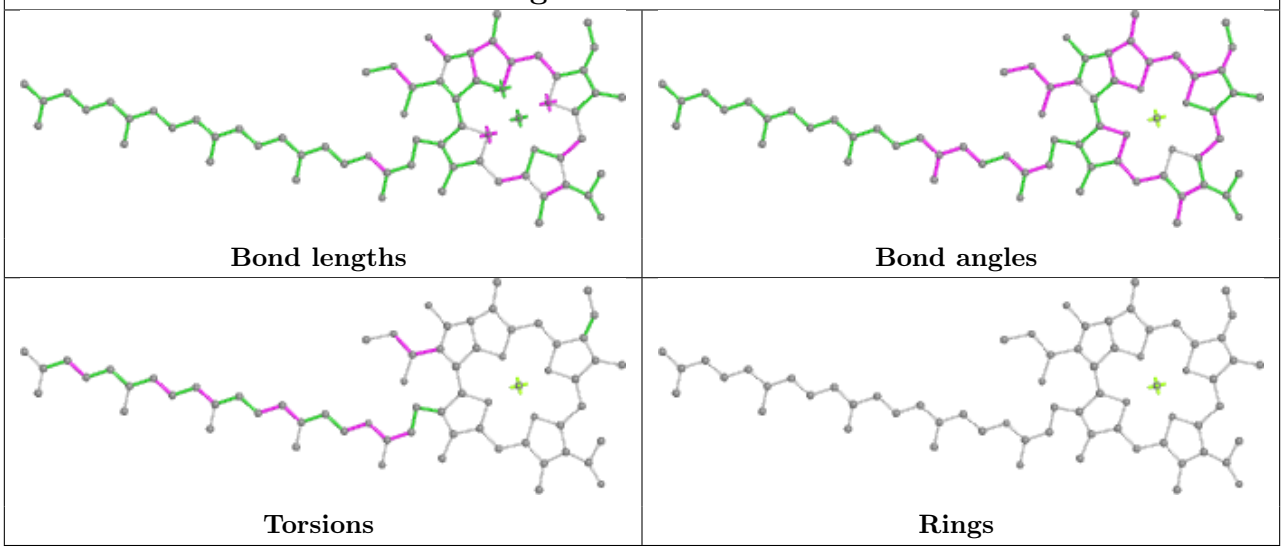
Ligand CRT V 101



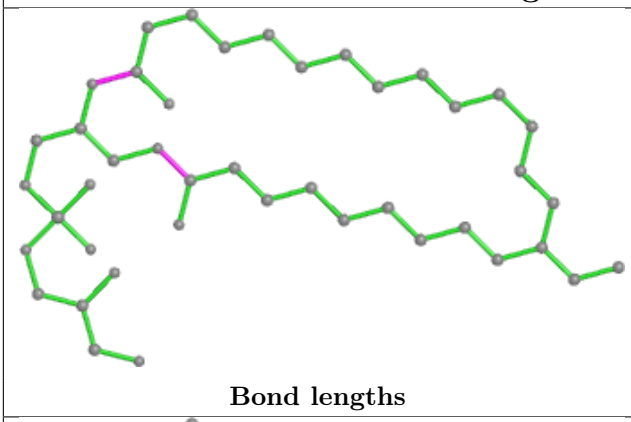
Ligand CRT Y 403



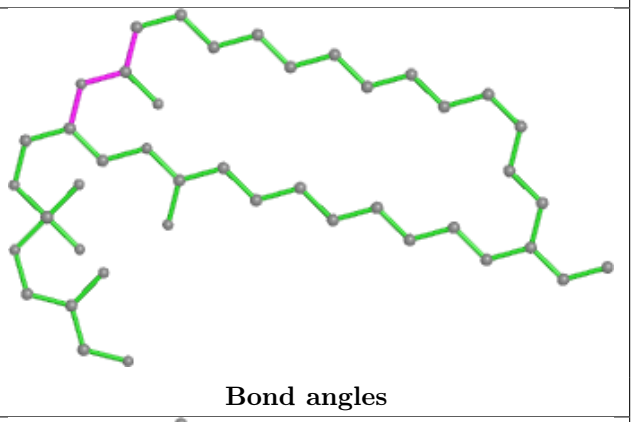
Ligand BCL 9 102



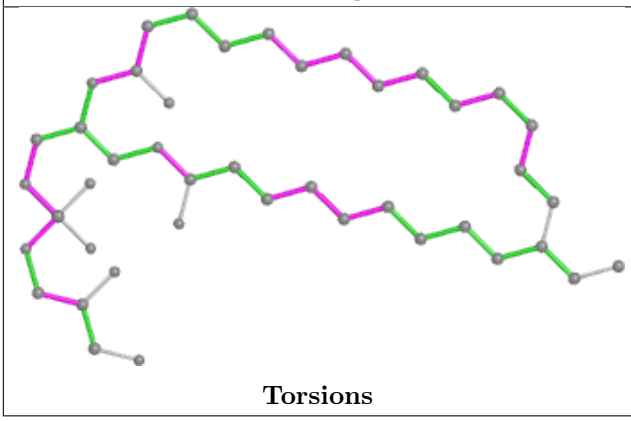
Ligand PGV B 103



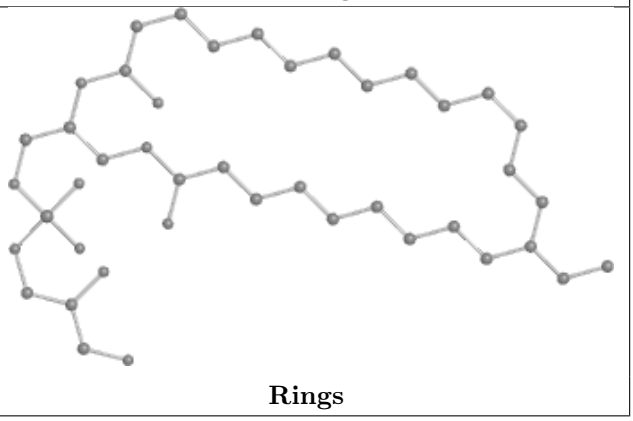
Bond lengths



Bond angles

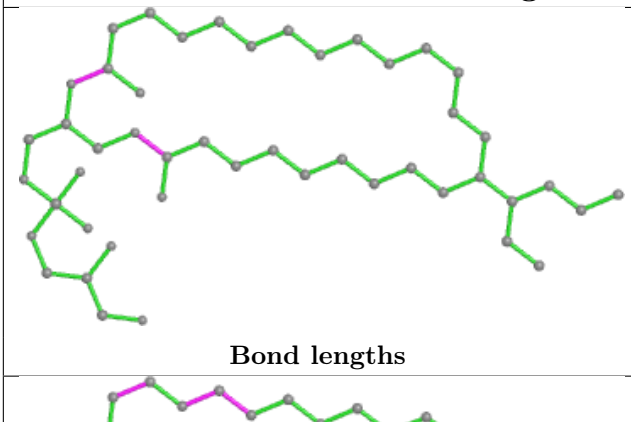


Torsions

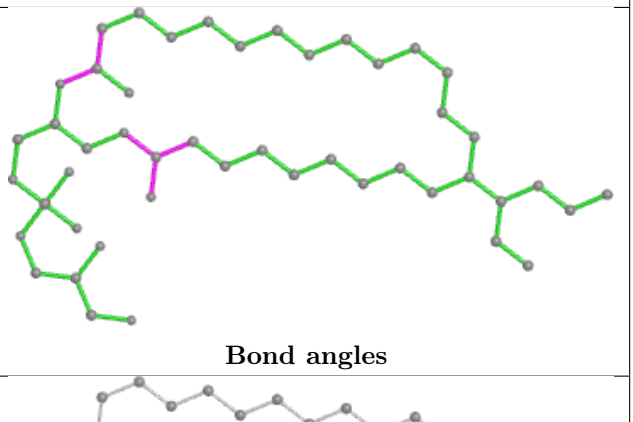


Rings

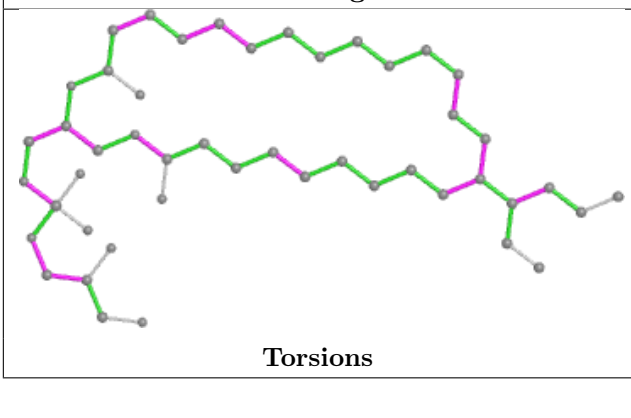
Ligand PGV G 101



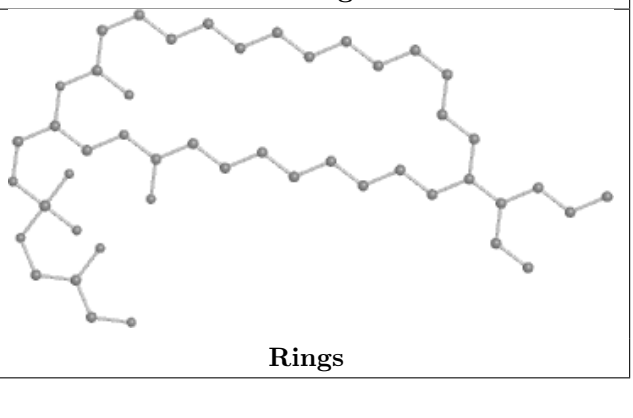
Bond lengths



Bond angles

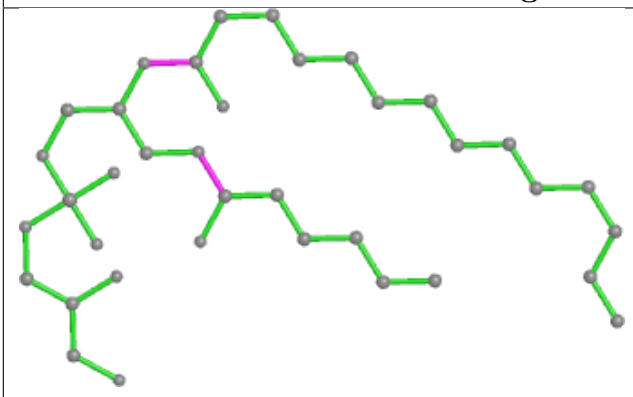


Torsions

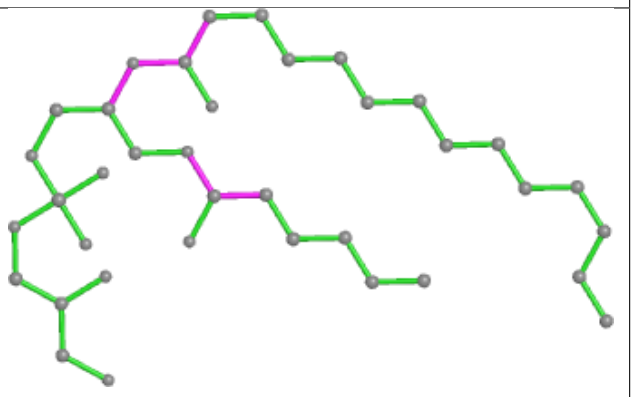


Rings

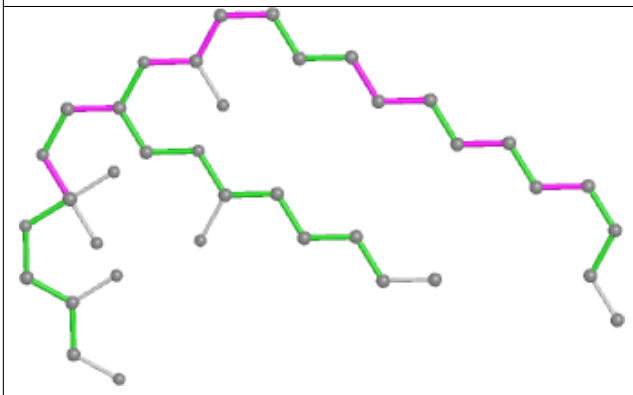
Ligand PGV N 105



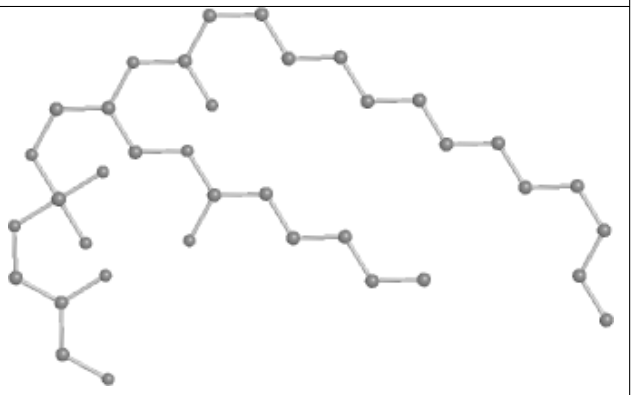
Bond lengths



Bond angles

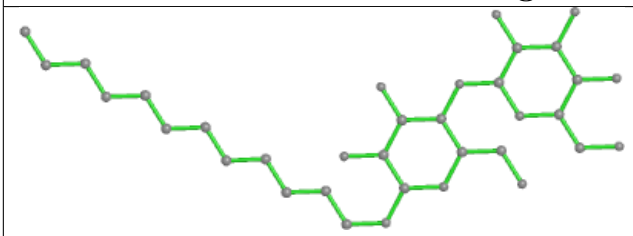


Torsions

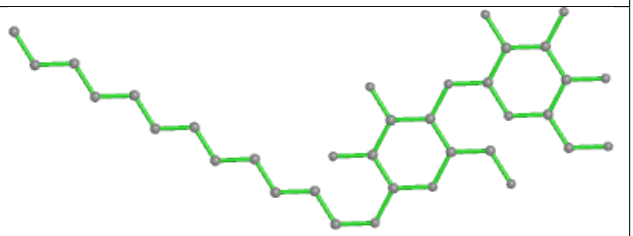


Rings

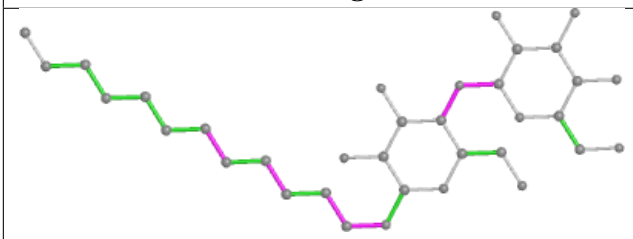
Ligand LMT M 411



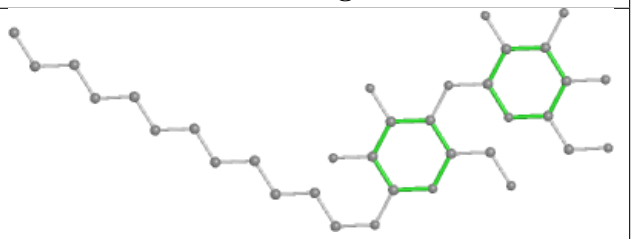
Bond lengths



Bond angles

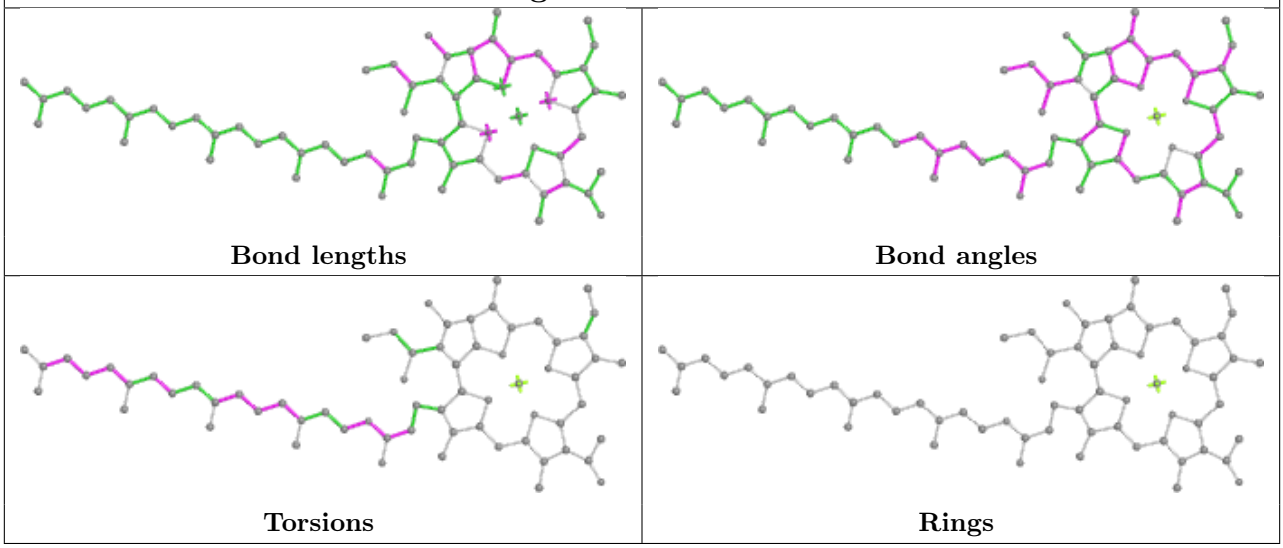


Torsions

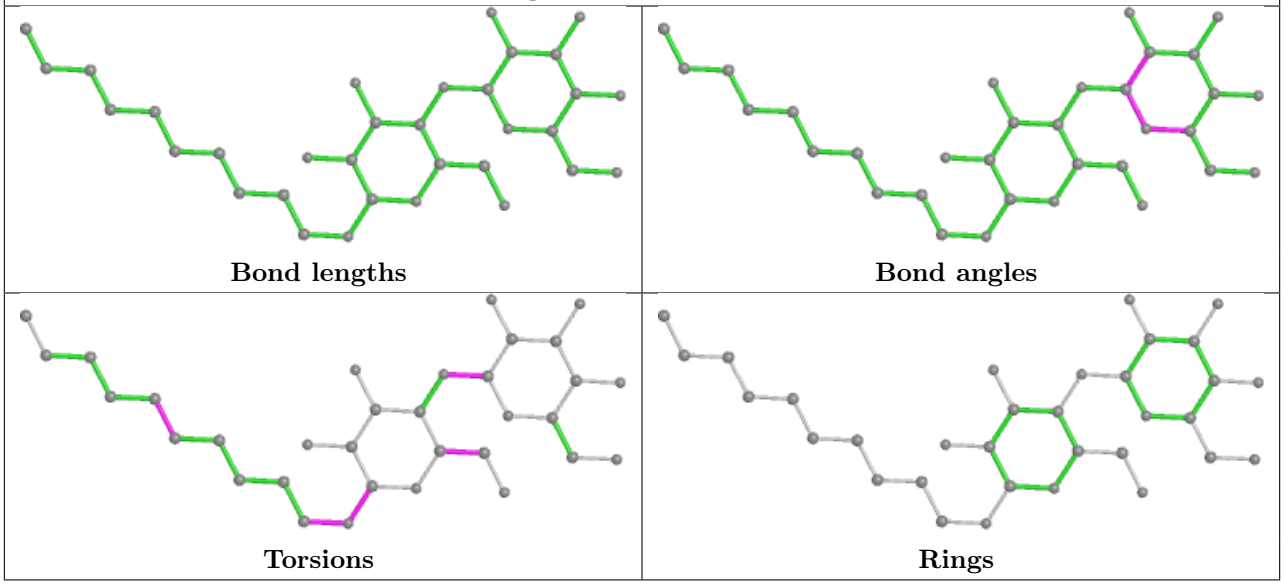


Rings

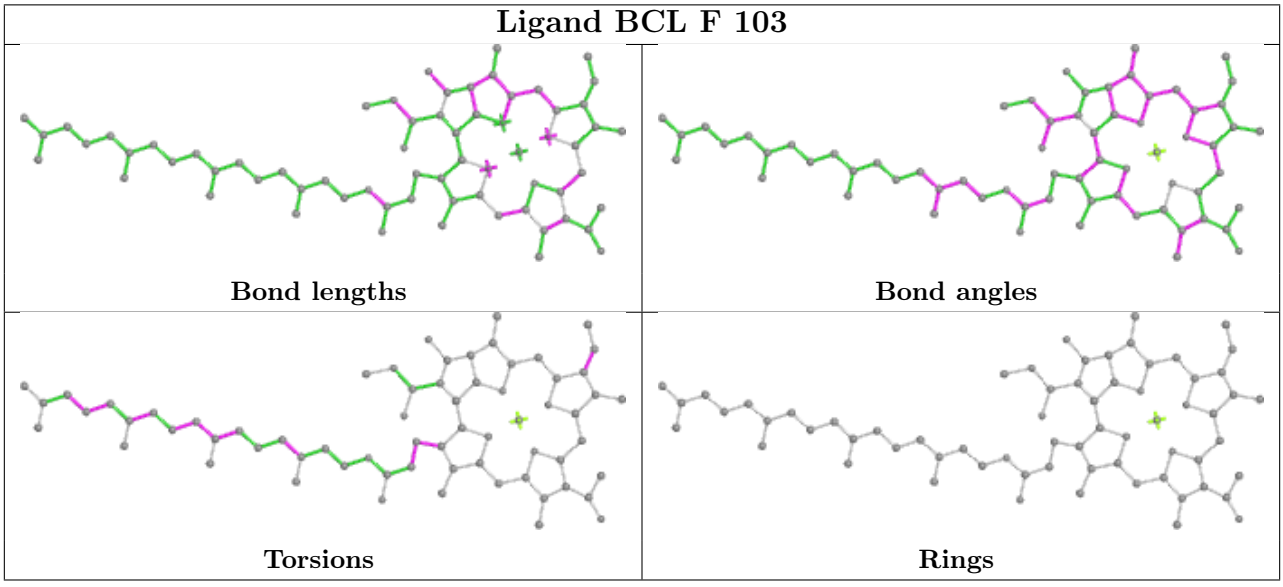
Ligand BCL 1 104



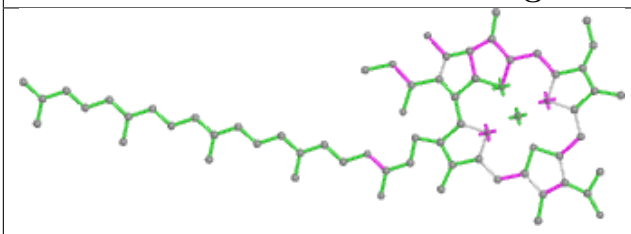
Ligand LMT F 102



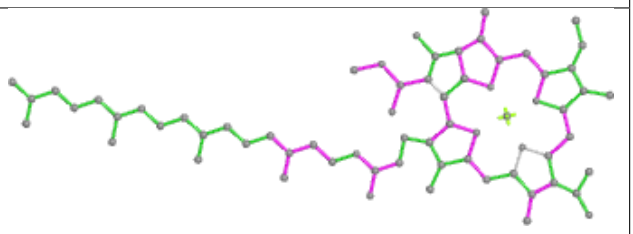
Ligand BCL F 103



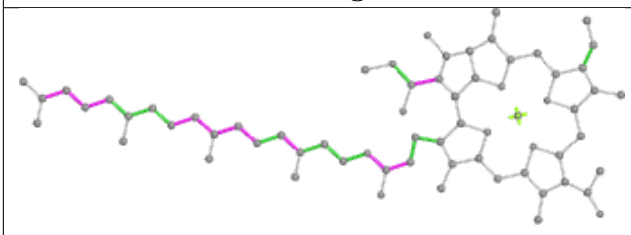
Ligand BCL D 102



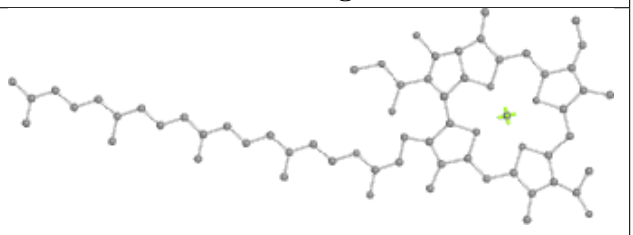
Bond lengths



Bond angles

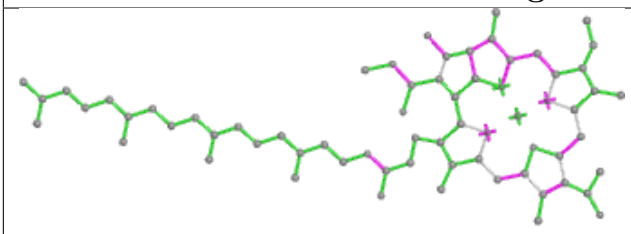


Torsions

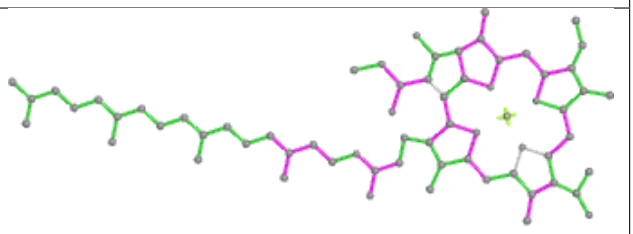


Rings

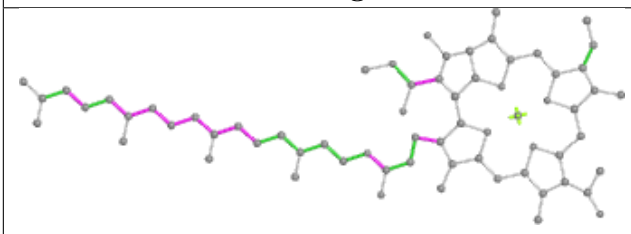
Ligand BCL L 309



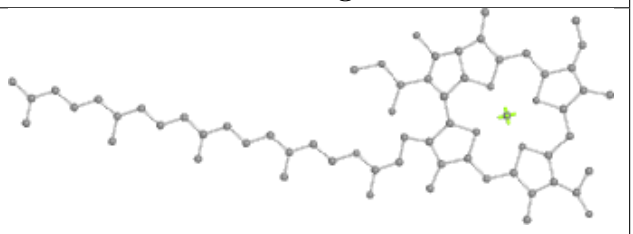
Bond lengths



Bond angles

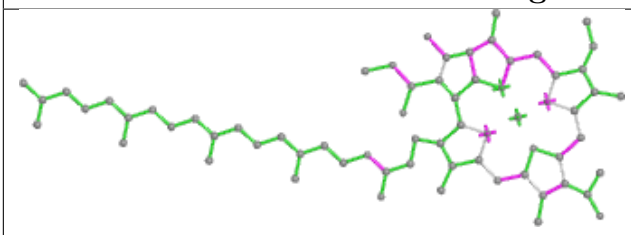


Torsions

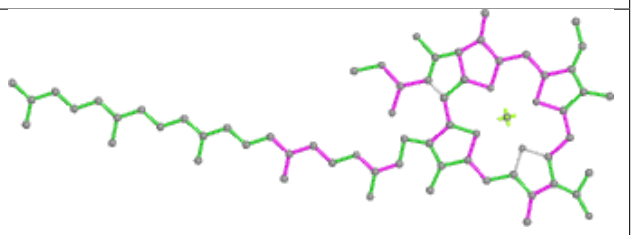


Rings

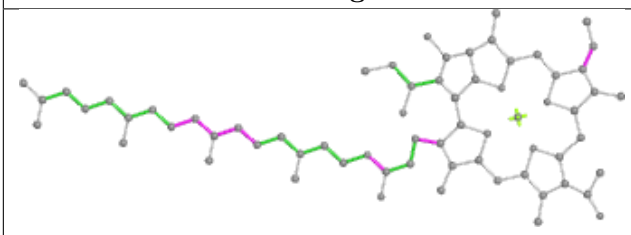
Ligand BCL 2 101



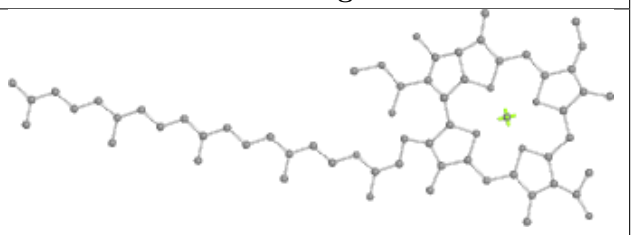
Bond lengths



Bond angles

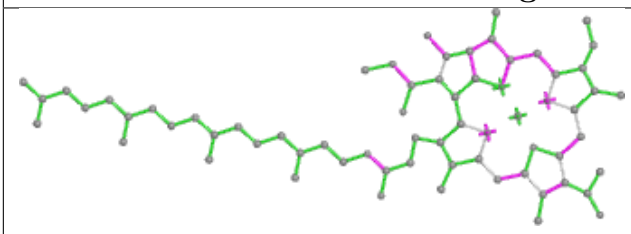


Torsions

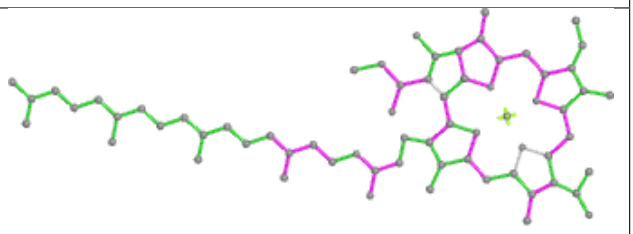


Rings

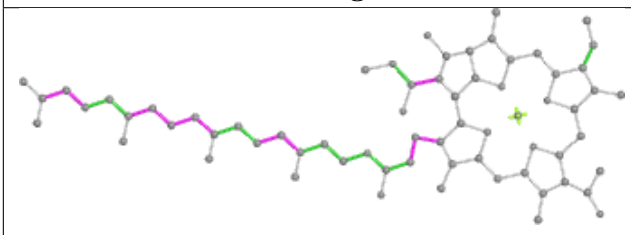
Ligand BCL W 101



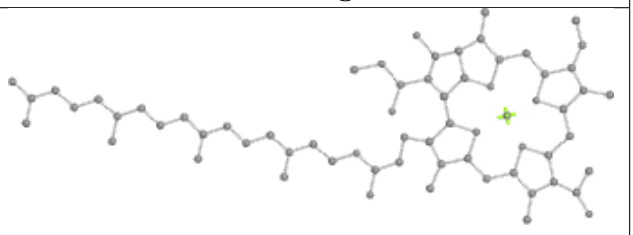
Bond lengths



Bond angles

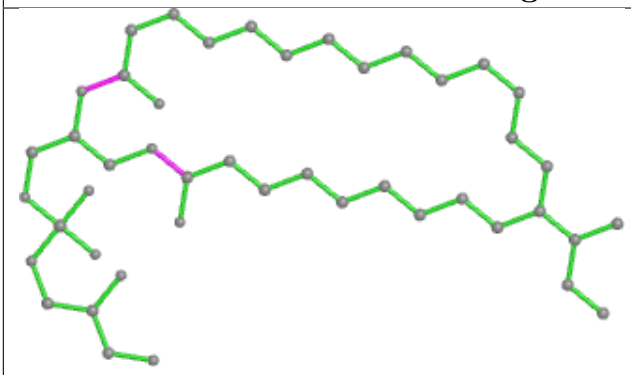


Torsions

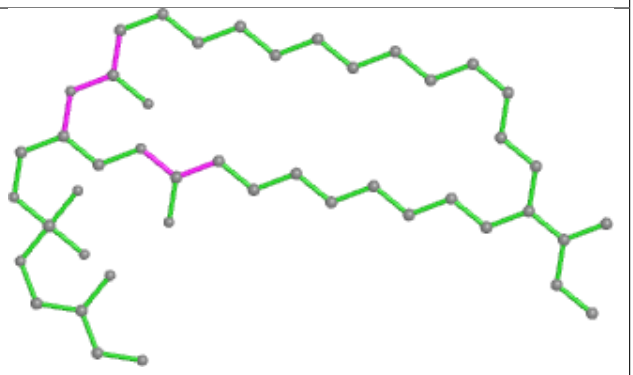


Rings

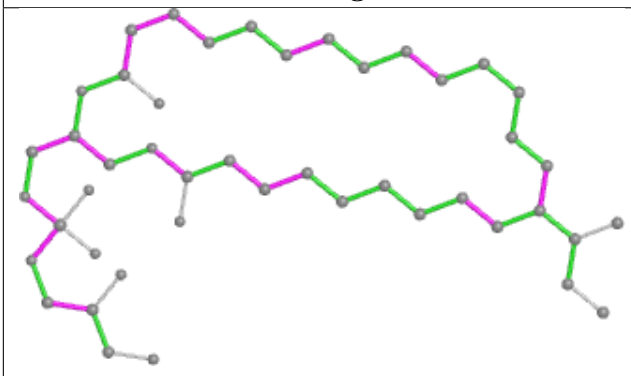
Ligand PGV N 104



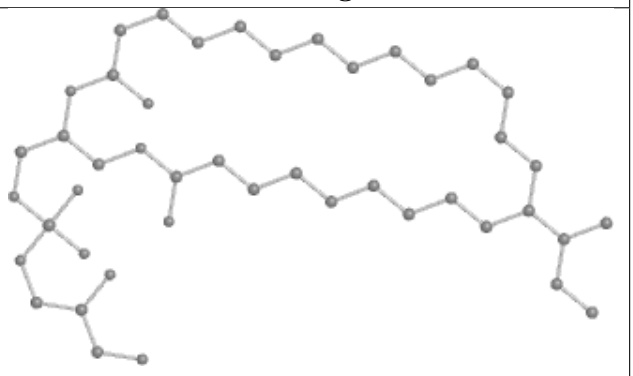
Bond lengths



Bond angles

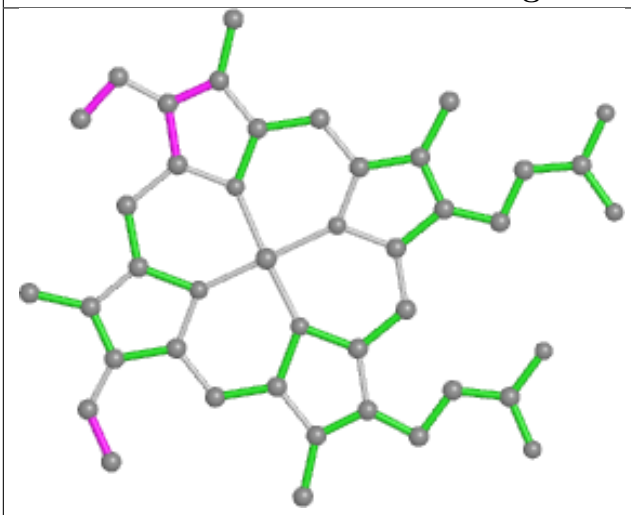


Torsions

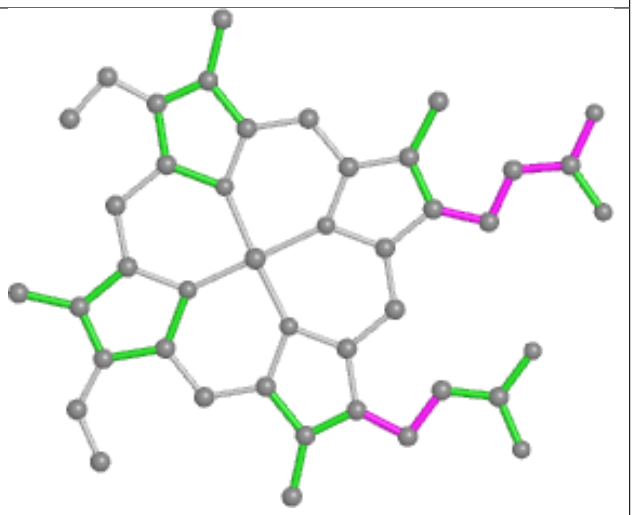


Rings

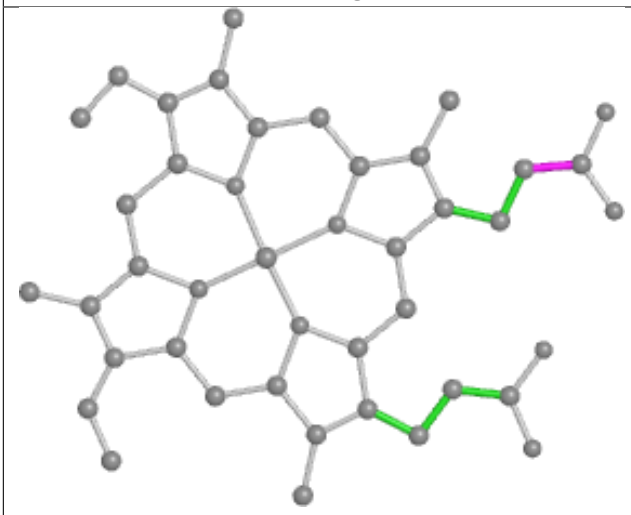
Ligand HEC C 402



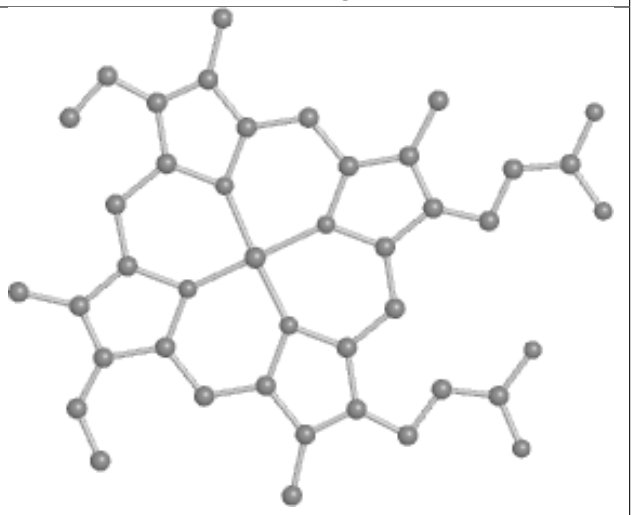
Bond lengths



Bond angles

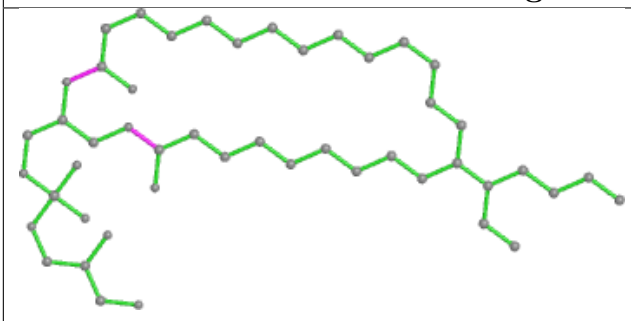


Torsions

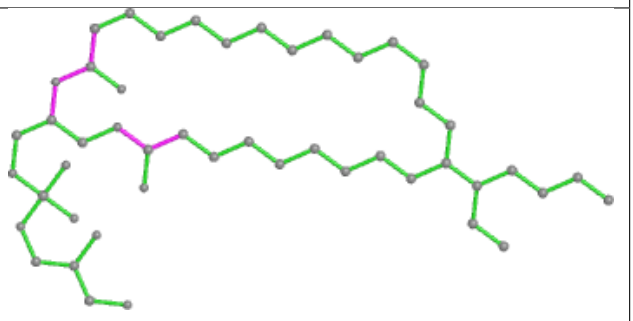


Rings

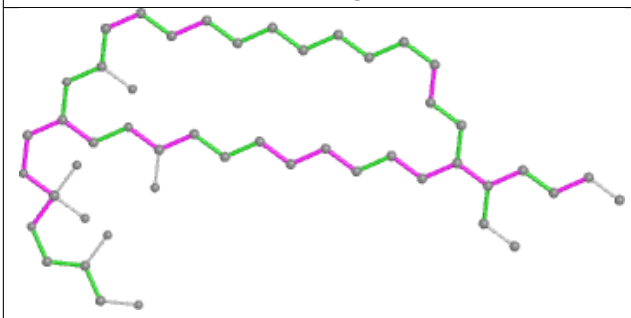
Ligand PGV J 101



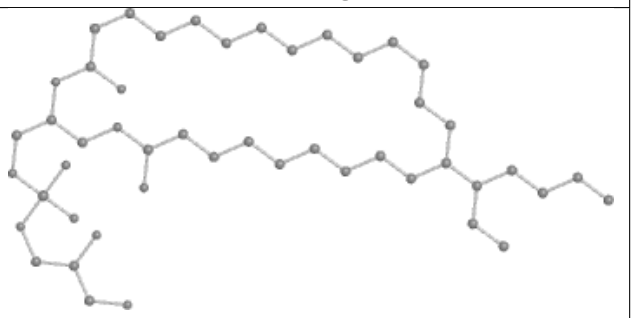
Bond lengths



Bond angles

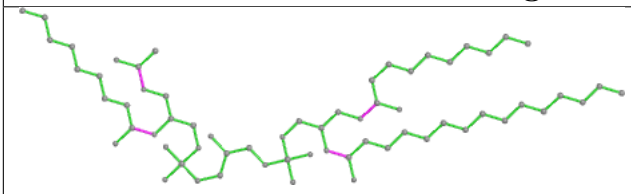


Torsions

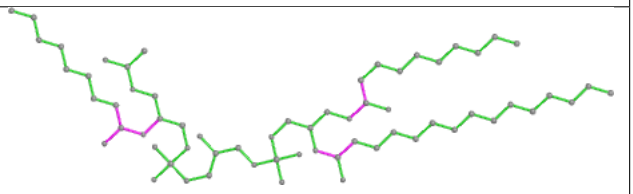


Rings

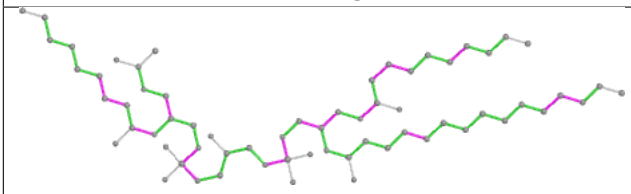
Ligand CDL H 301



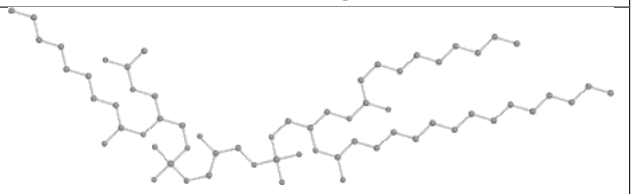
Bond lengths



Bond angles

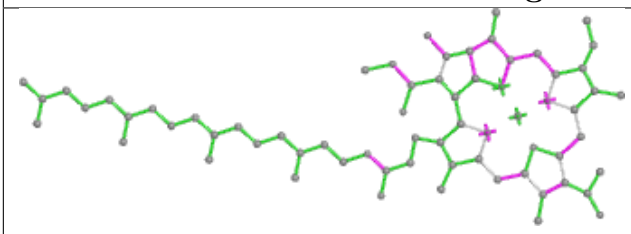


Torsions

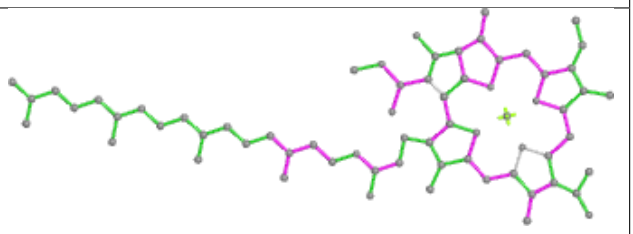


Rings

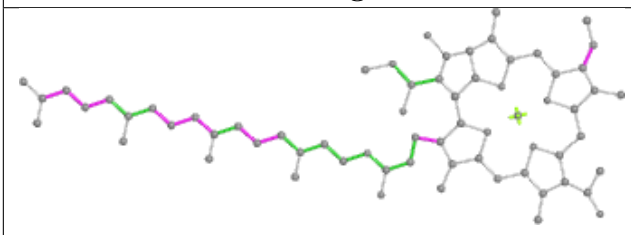
Ligand BCL B 102



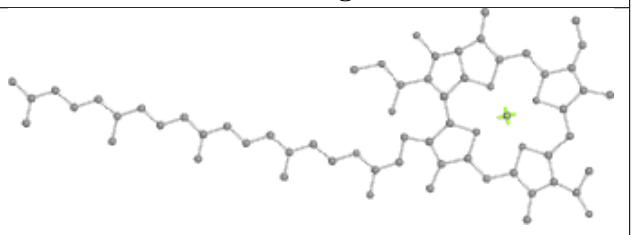
Bond lengths



Bond angles

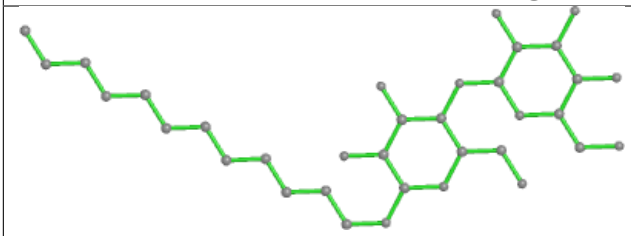


Torsions

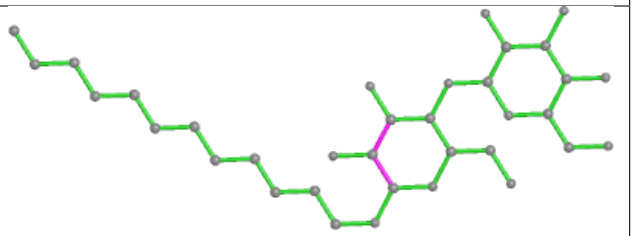


Rings

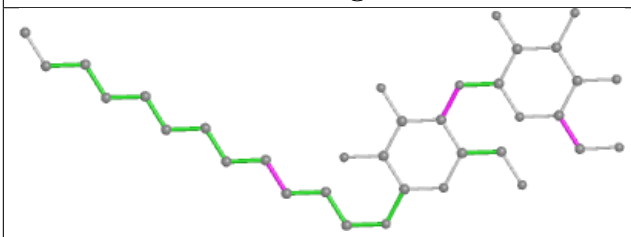
Ligand LMT 7 103



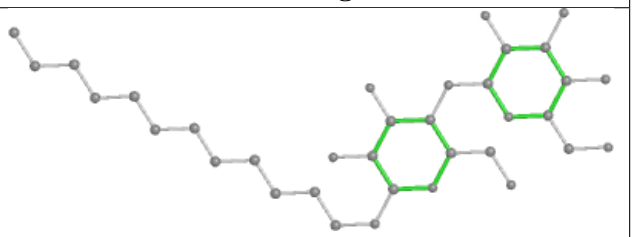
Bond lengths



Bond angles

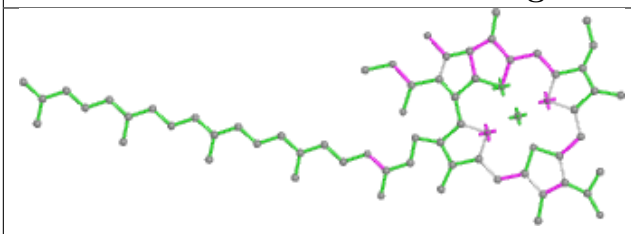


Torsions

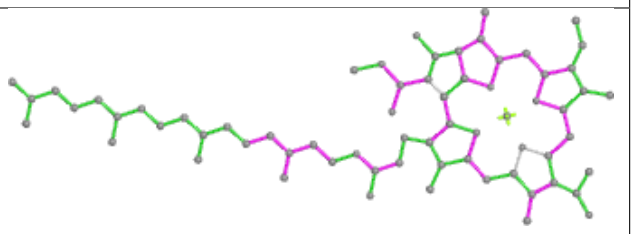


Rings

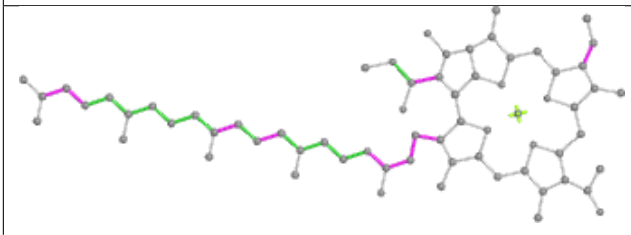
Ligand BCL L 308



Bond lengths



Bond angles



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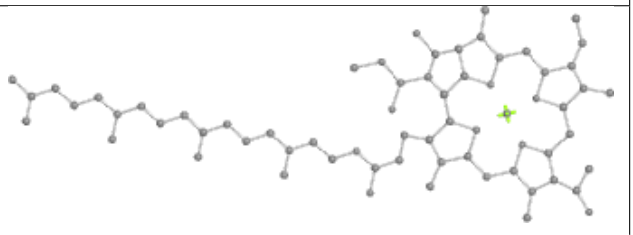
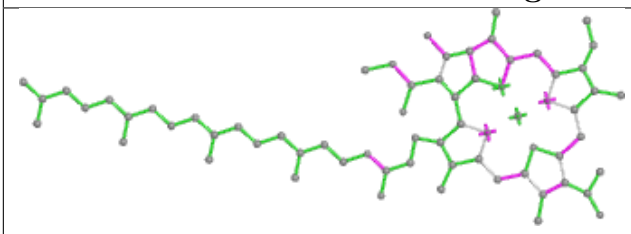
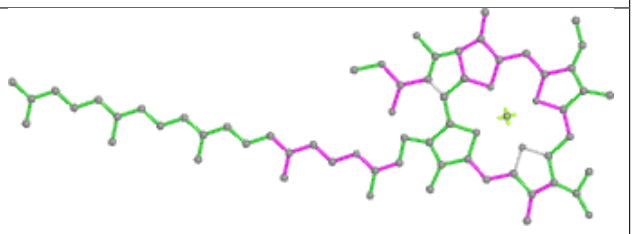


Rings

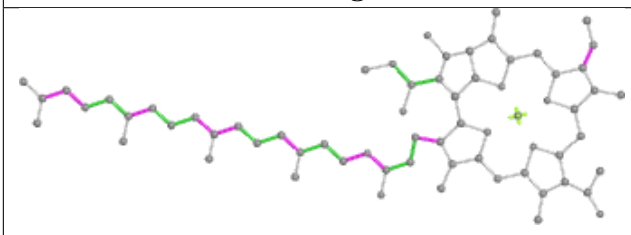
Ligand BCL A 101



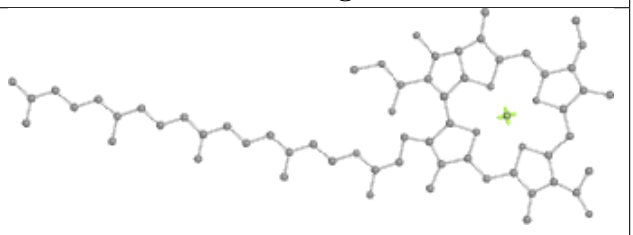
Bond lengths



Bond angles

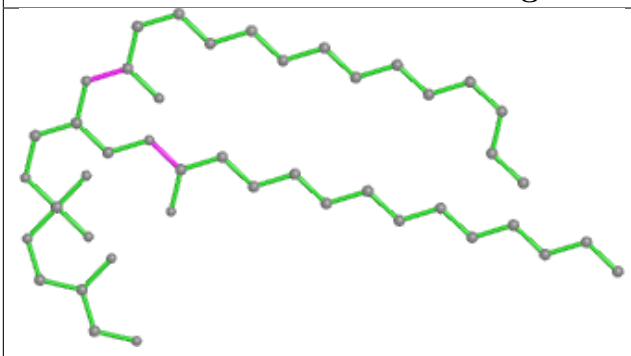


Torsions

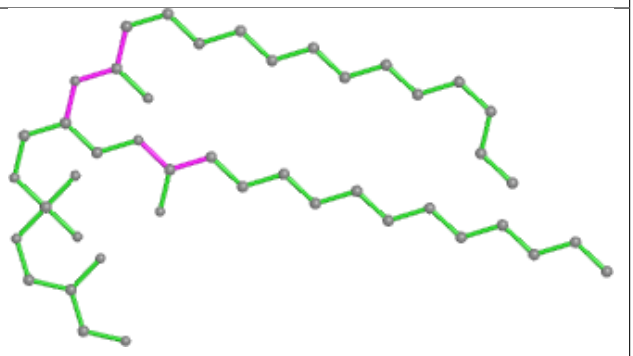


Rings

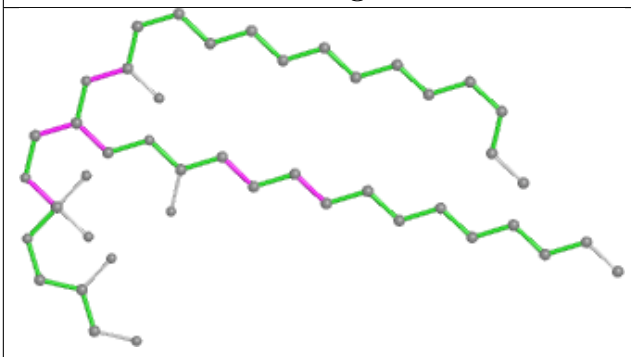
Ligand PGV V 104



Bond lengths



Bond angles



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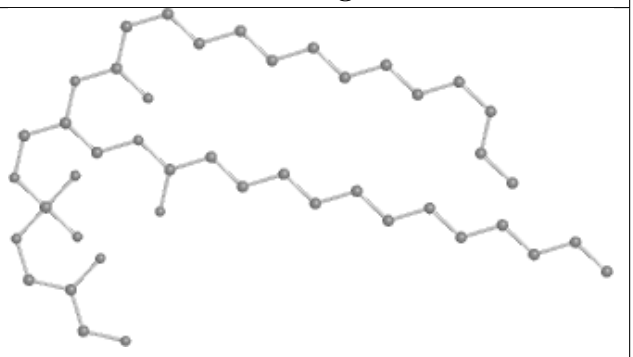
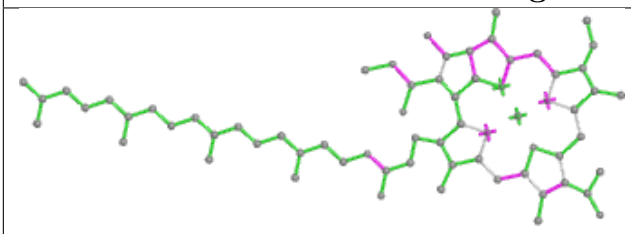
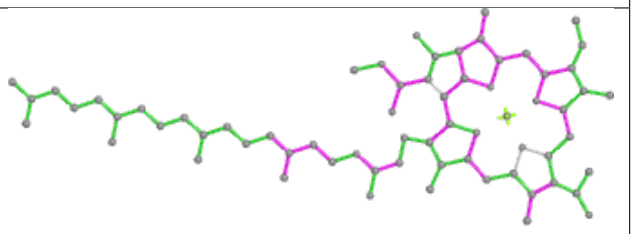


Rings

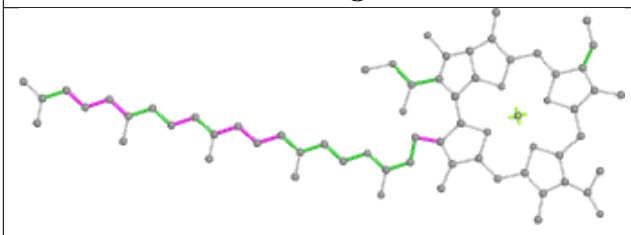
Ligand BCL 4 102



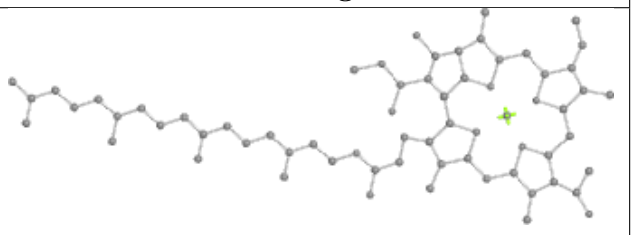
Bond lengths



Bond angles

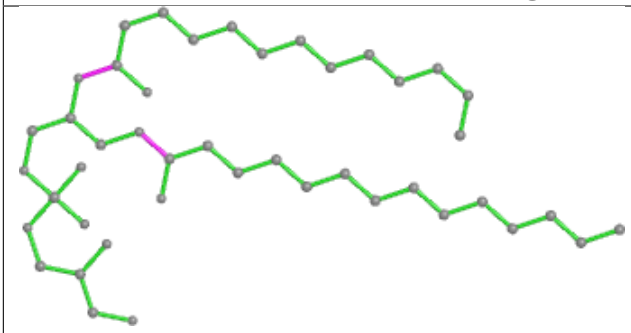


Torsions

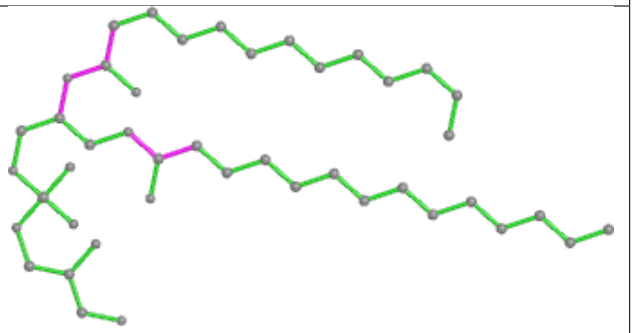


Rings

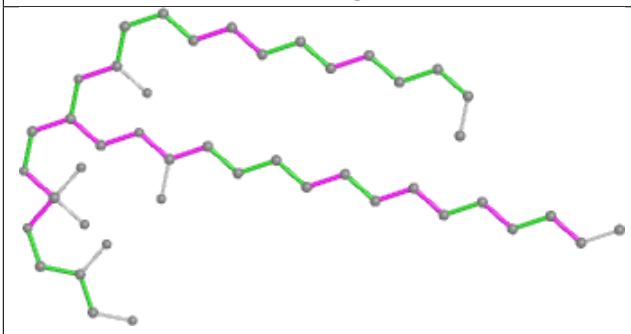
Ligand PGV Z 103



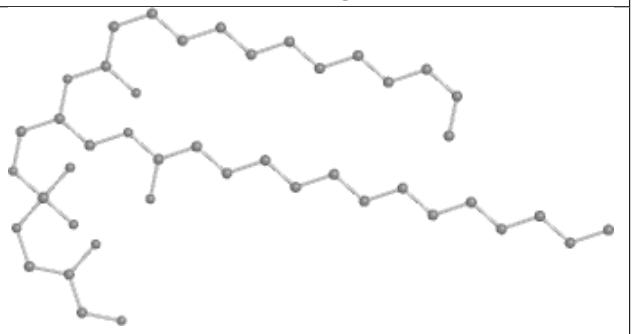
Bond lengths



Bond angles

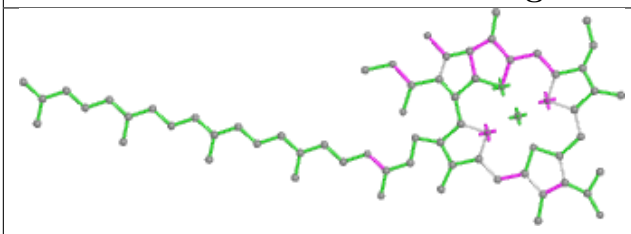


Torsions

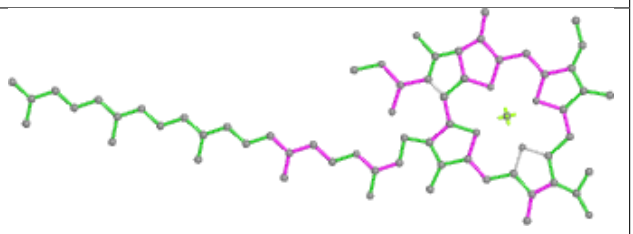


Rings

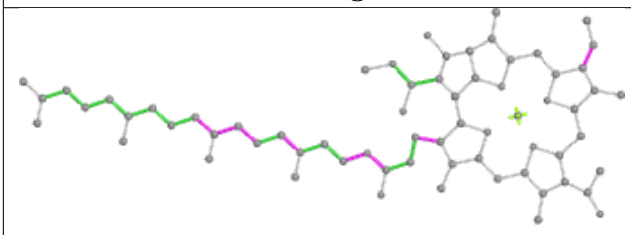
Ligand BCL P 101



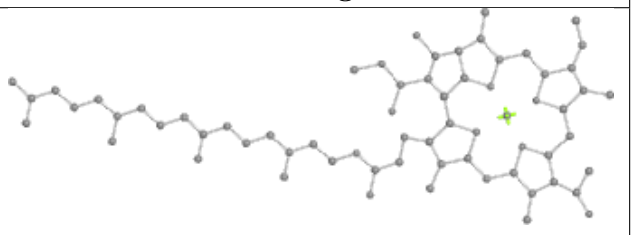
Bond lengths



Bond angles

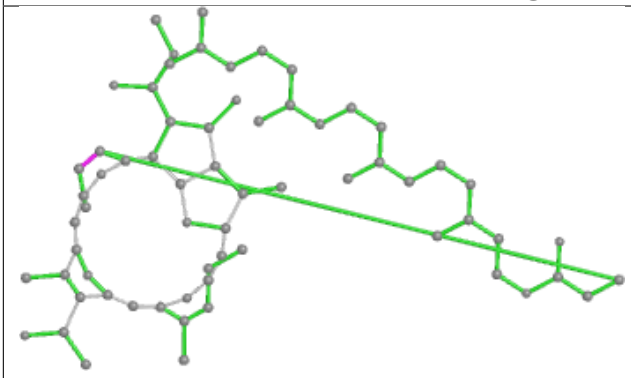


Torsions

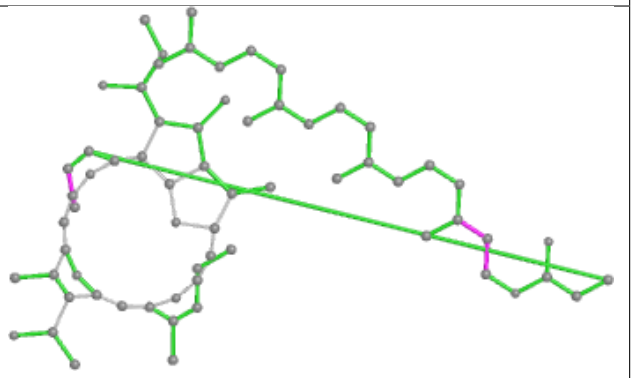


Rings

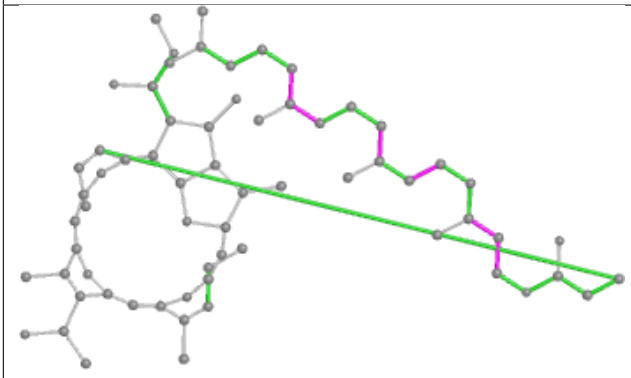
Ligand BPH L 303



Bond lengths



Bond angles



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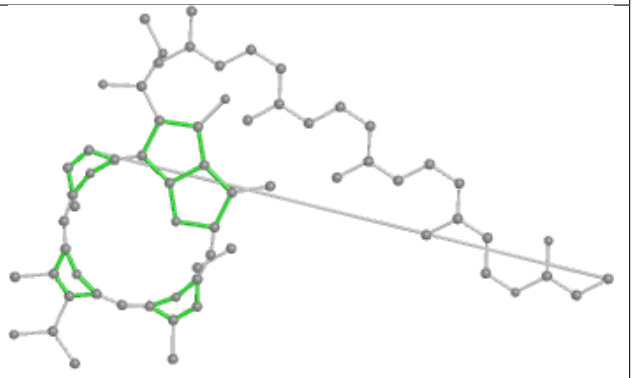
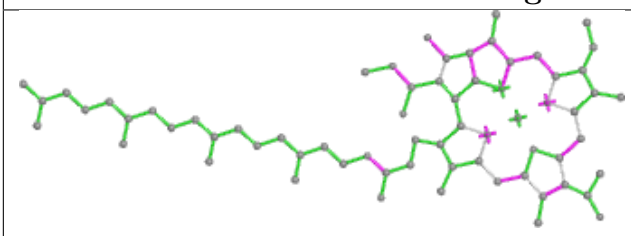
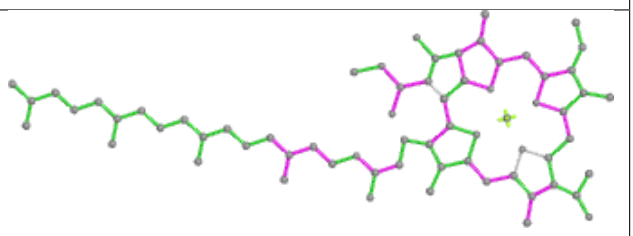


Rings

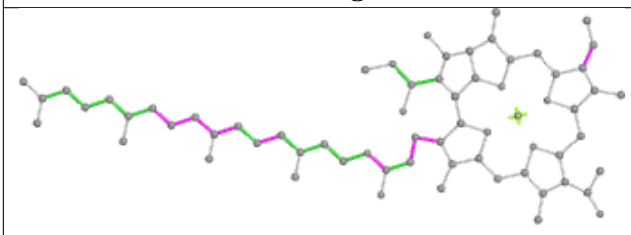
Ligand BCL U 101



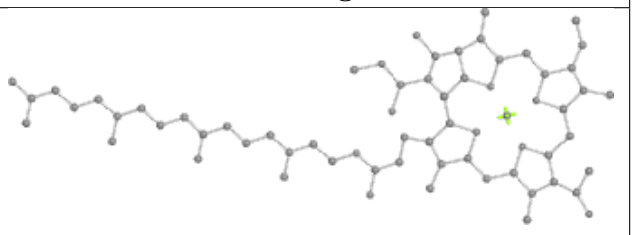
Bond lengths



Bond angles

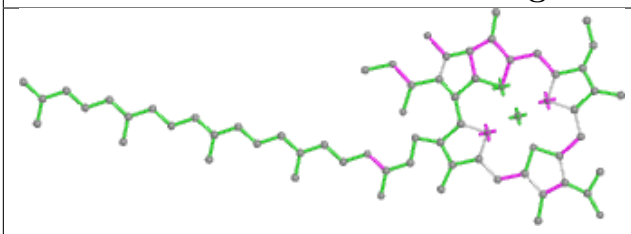


Torsions

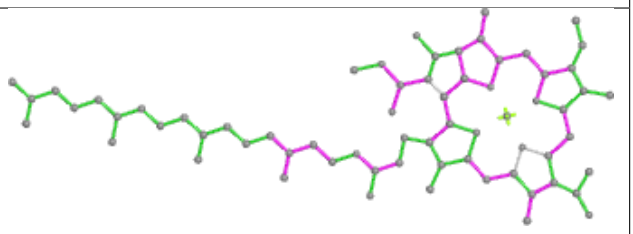


Rings

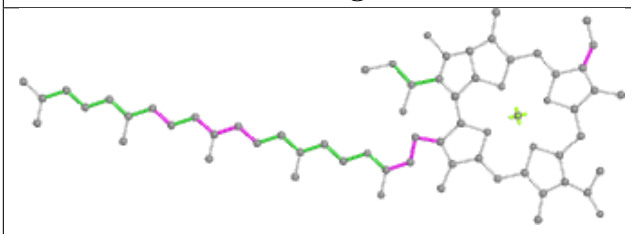
Ligand BCL J 102



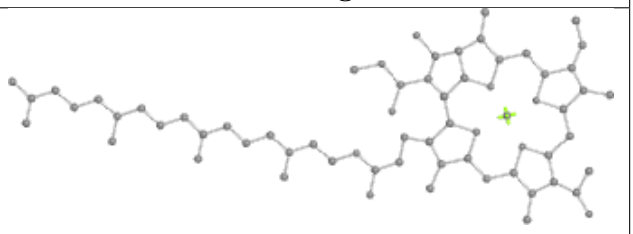
Bond lengths



Bond angles

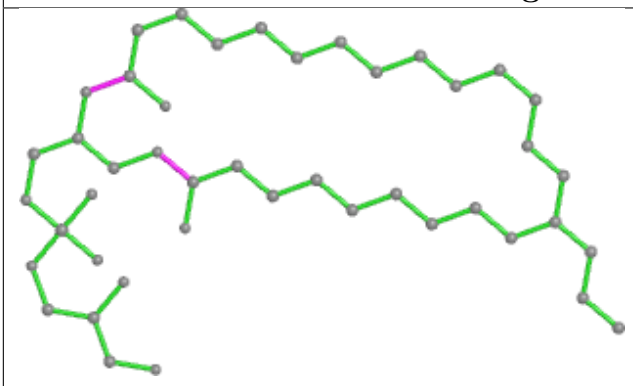


Torsions

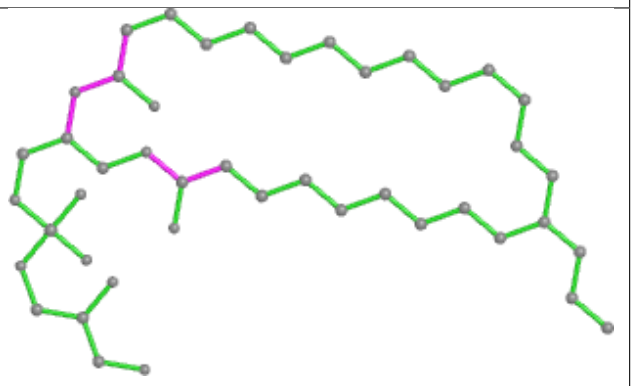


Rings

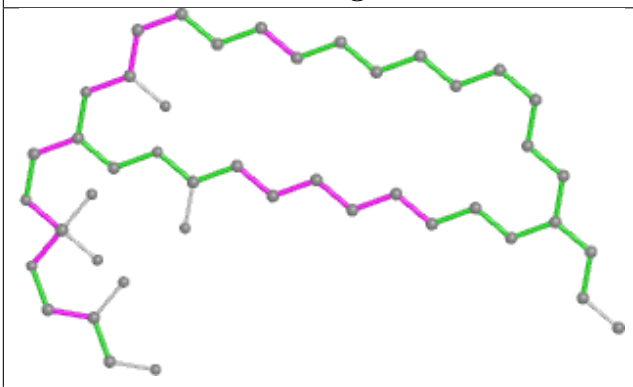
Ligand PGV T 103



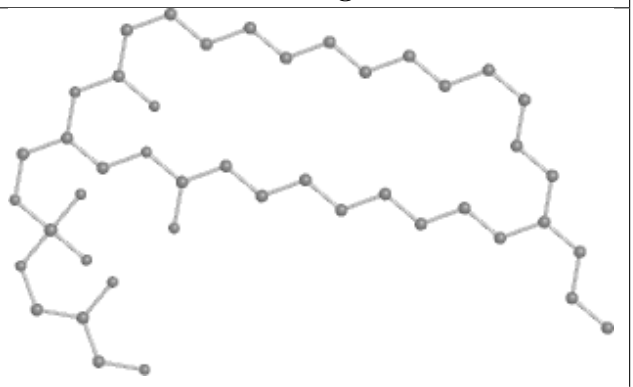
Bond lengths



Bond angles

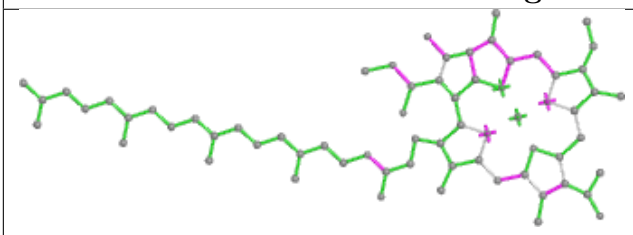


Torsions

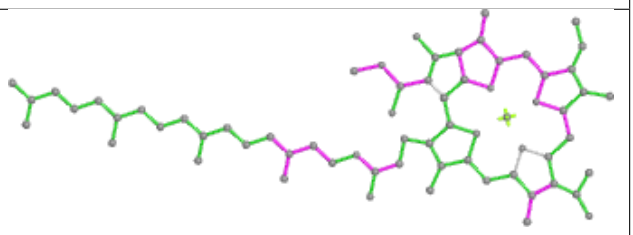


Rings

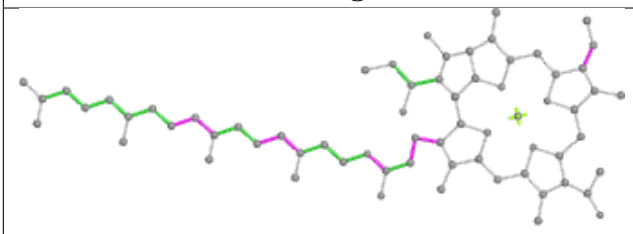
Ligand BCL Y 402



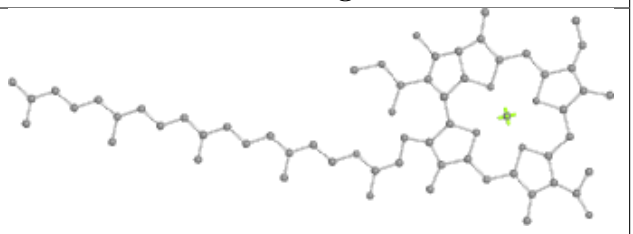
Bond lengths



Bond angles

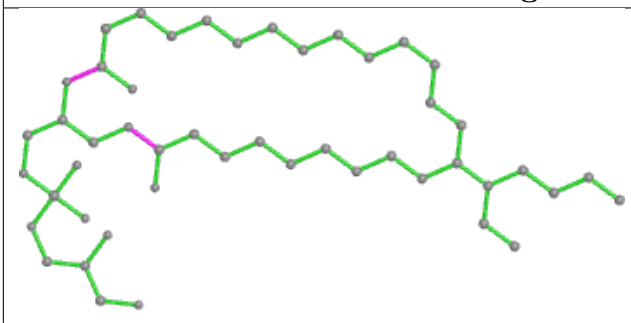


Torsions

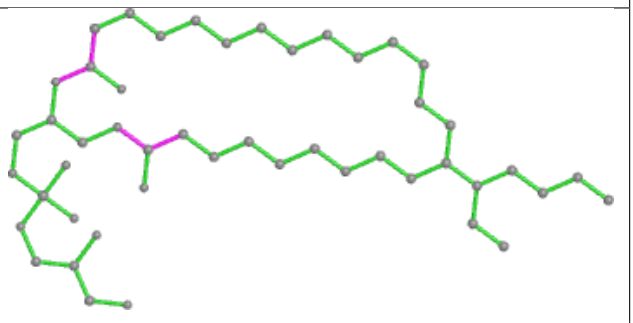


Rings

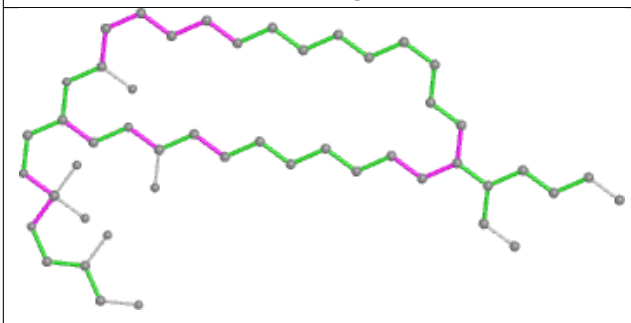
Ligand PGV N 101



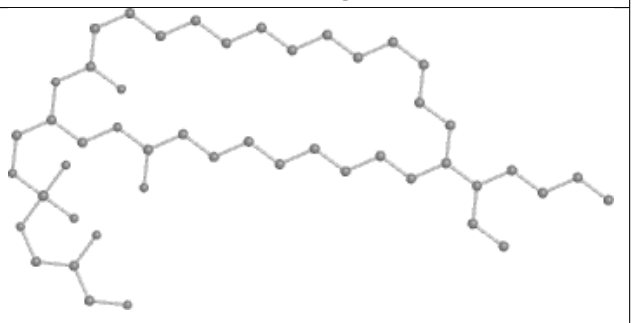
Bond lengths



Bond angles

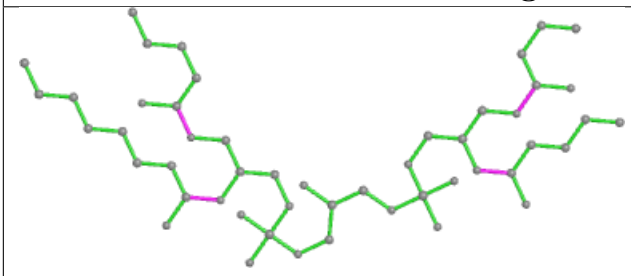


Torsions

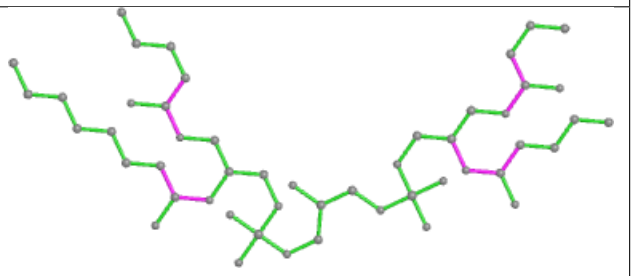


Rings

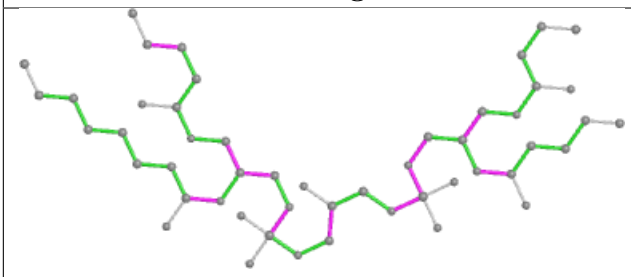
Ligand CDL M 410



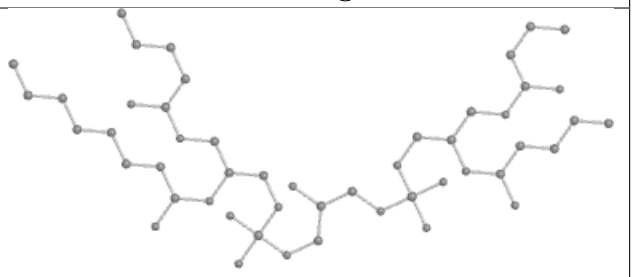
Bond lengths



Bond angles

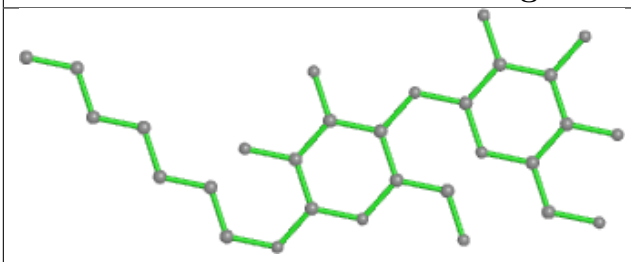


Torsions

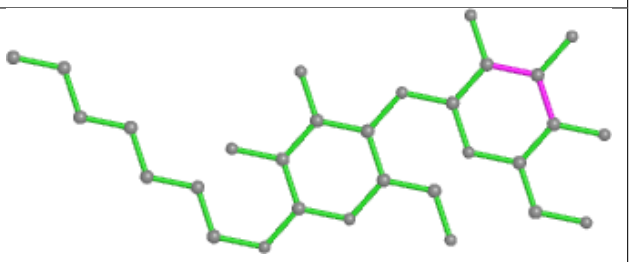


Rings

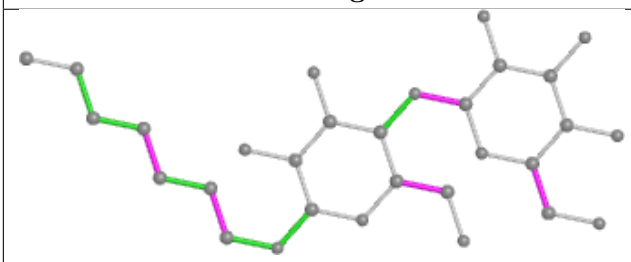
Ligand LMT H 304



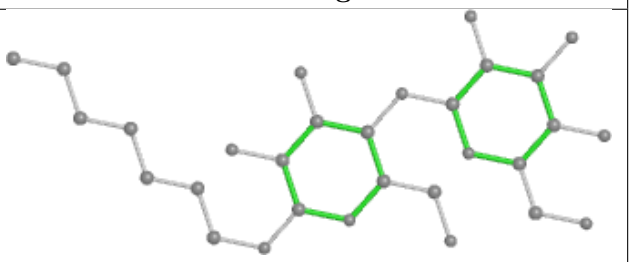
Bond lengths



Bond angles

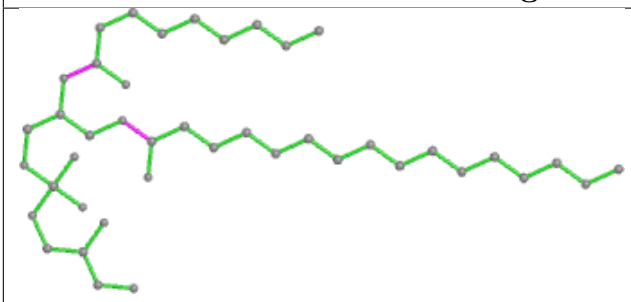


Torsions

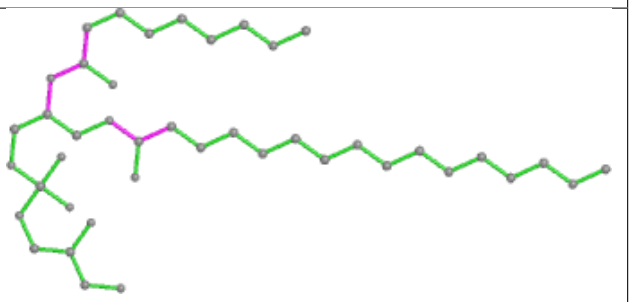


Rings

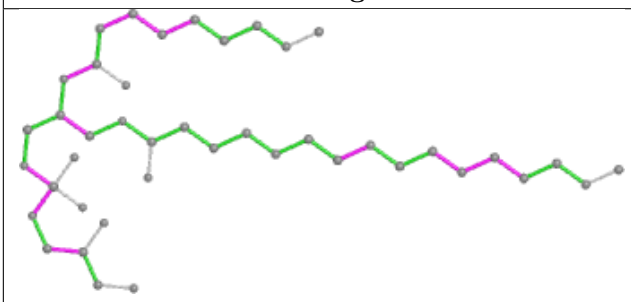
Ligand PGV H 303



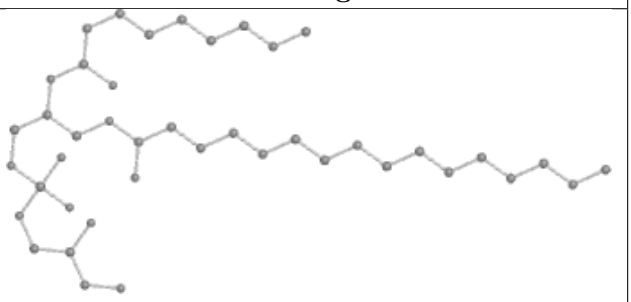
Bond lengths



Bond angles

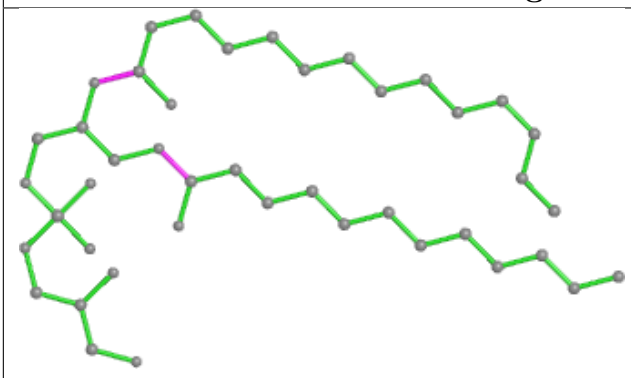


Torsions

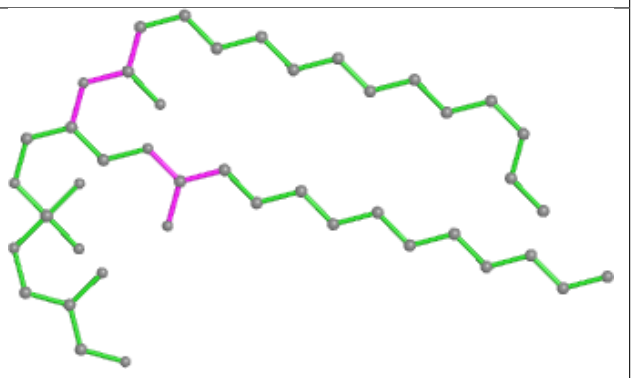


Rings

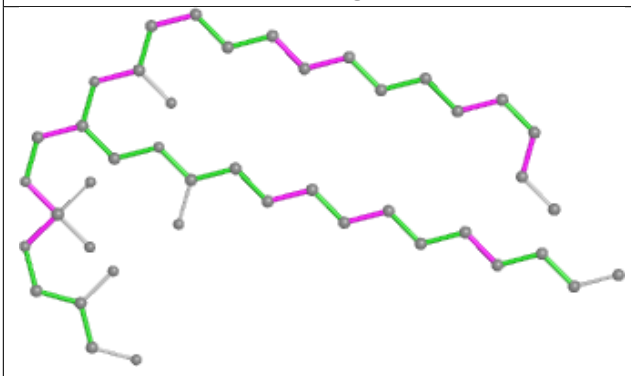
Ligand PGV 0 104



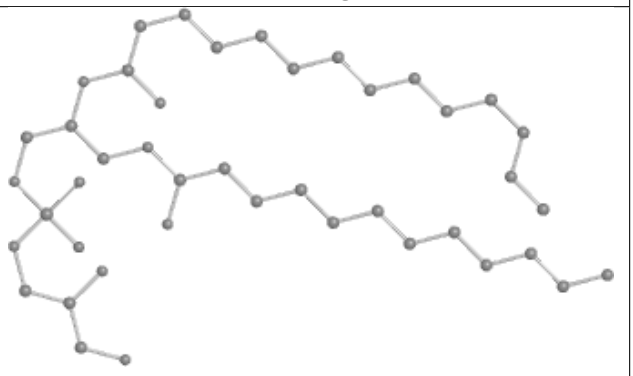
Bond lengths



Bond angles

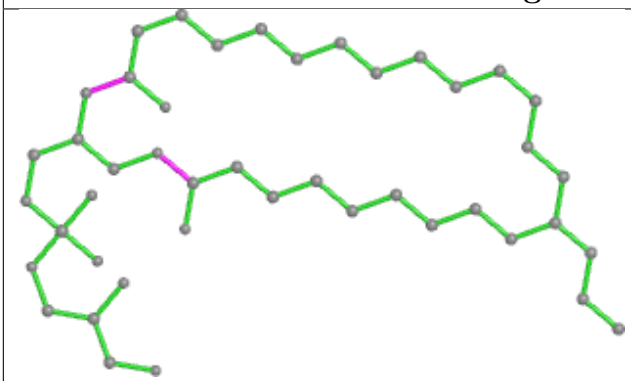


Torsions

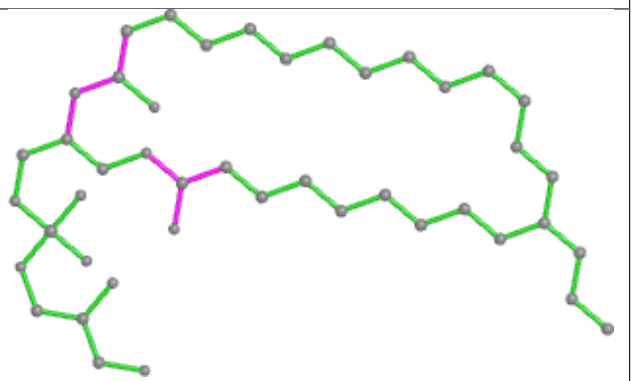


Rings

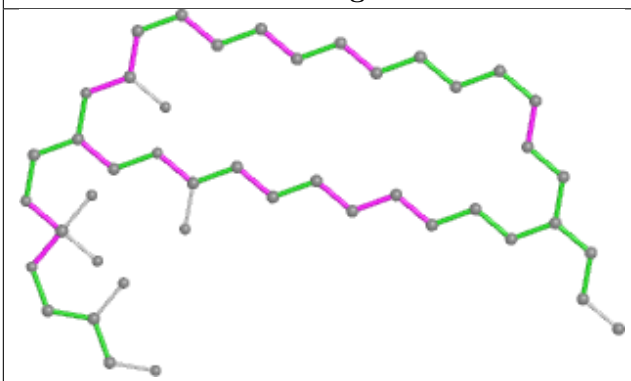
Ligand PGV Z 101



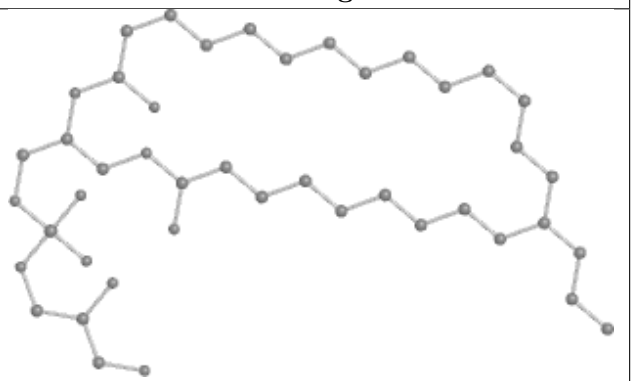
Bond lengths



Bond angles

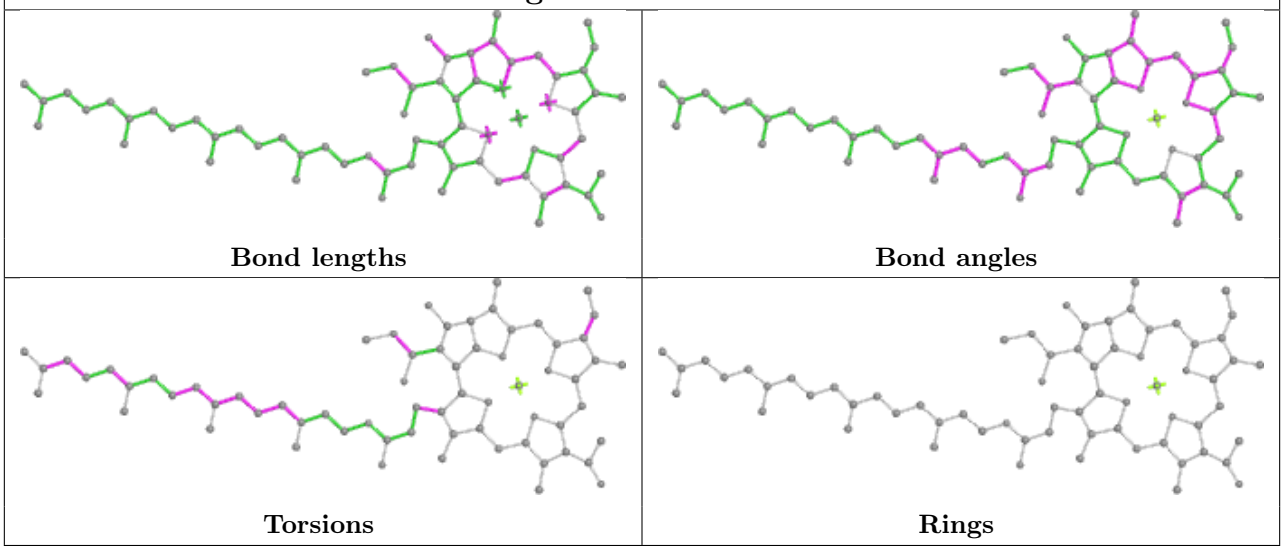


Torsions



Rings

Ligand BCL O 104



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

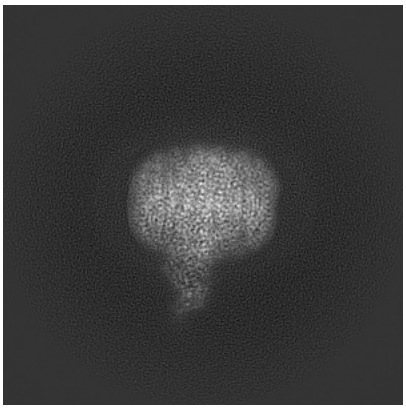
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-39836. These allow visual inspection of the internal detail of the map and identification of artifacts.

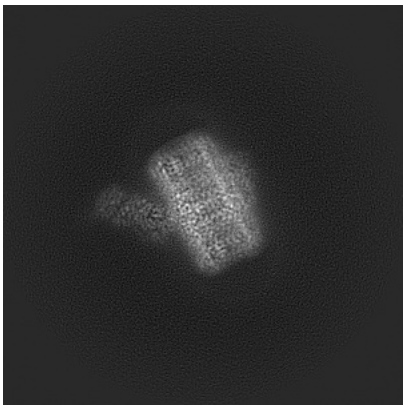
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

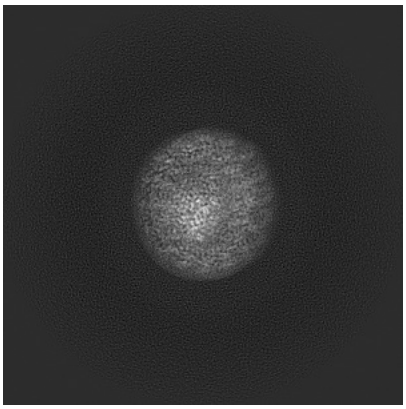
6.1.1 Primary map



X

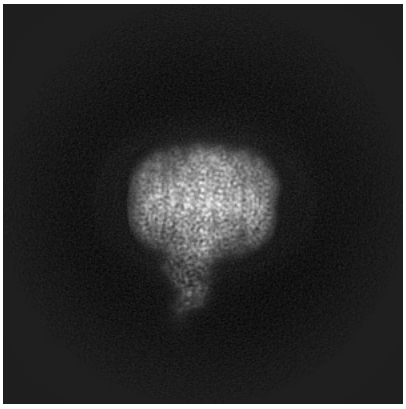


Y

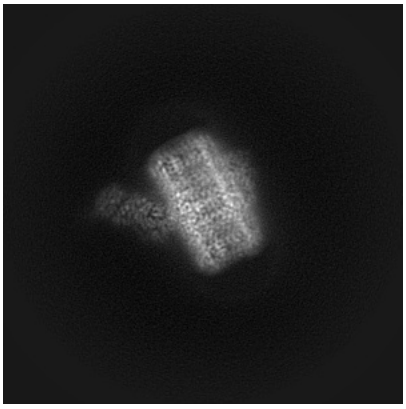


Z

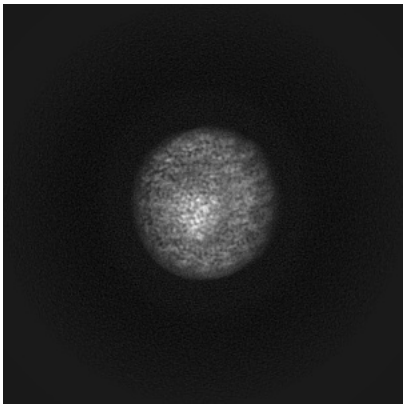
6.1.2 Raw map



X



Y

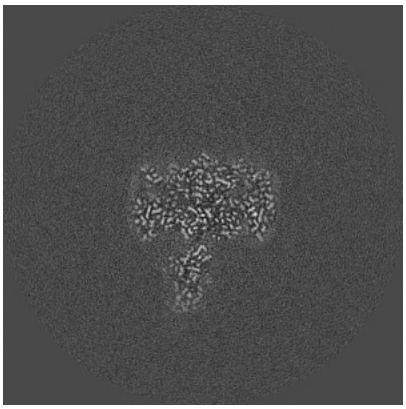


Z

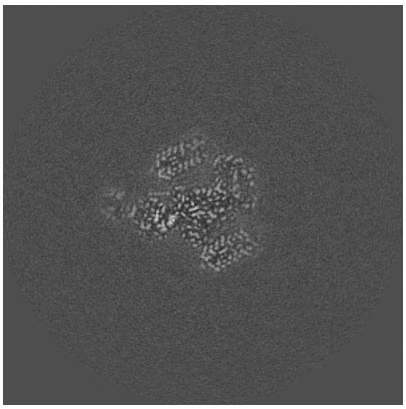
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

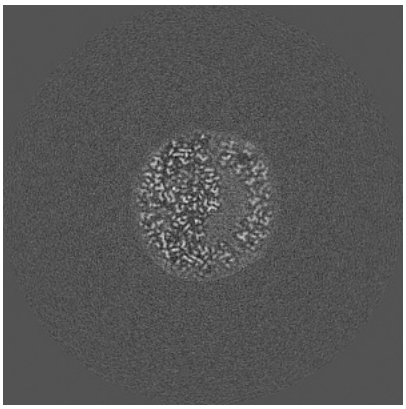
6.2.1 Primary map



X Index: 200

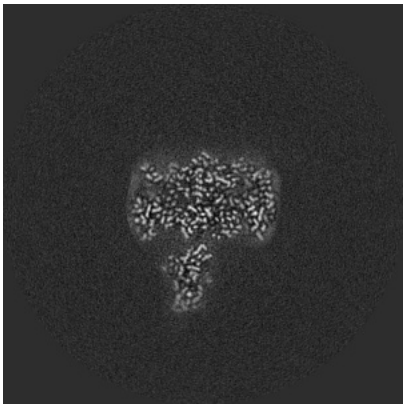


Y Index: 200

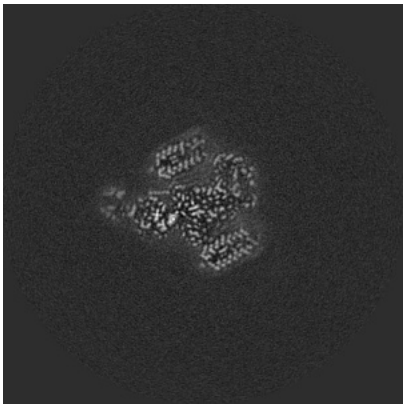


Z Index: 200

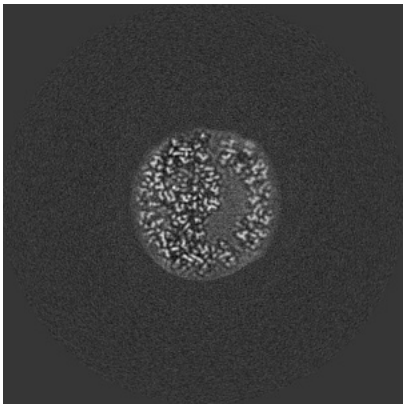
6.2.2 Raw map



X Index: 200



Y Index: 200

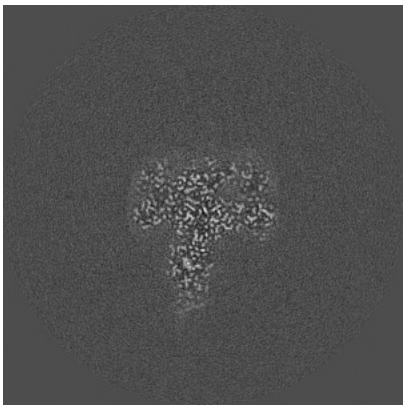


Z Index: 200

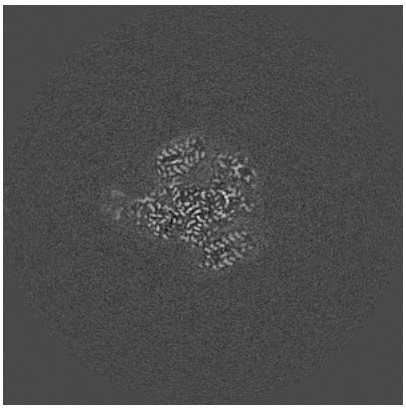
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

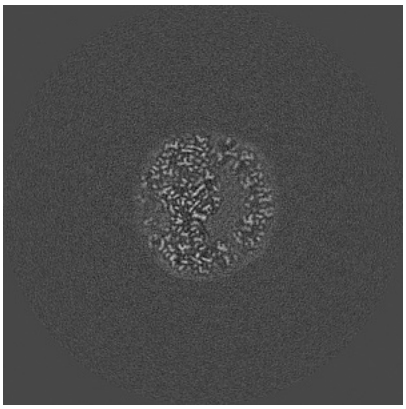
6.3.1 Primary map



X Index: 193

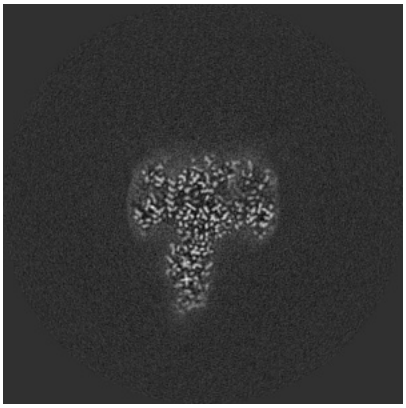


Y Index: 202

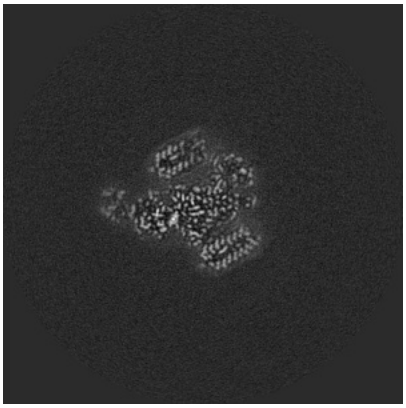


Z Index: 196

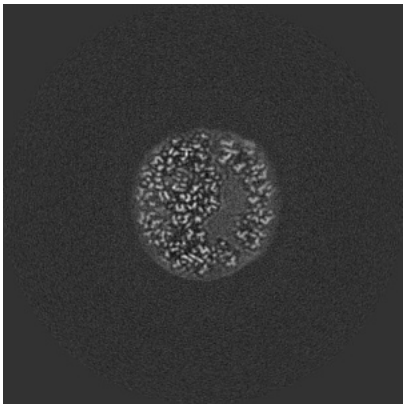
6.3.2 Raw map



X Index: 194



Y Index: 199

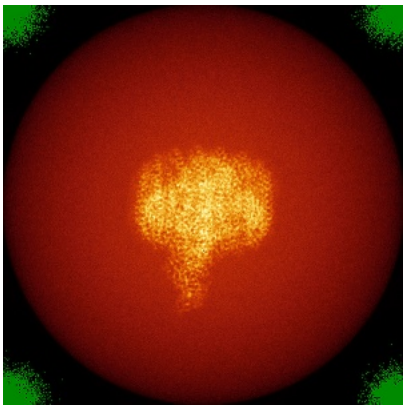


Z Index: 199

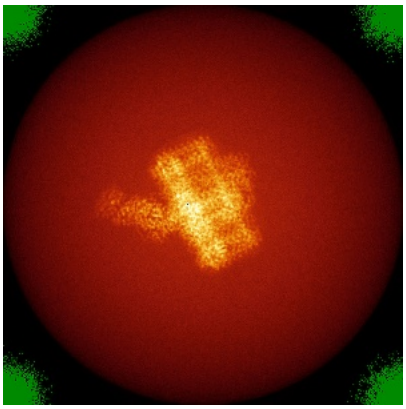
The images above show the largest variance slices of the map in three orthogonal directions.

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

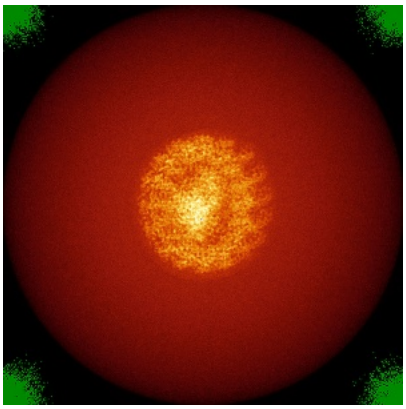
6.4.1 Primary map



X

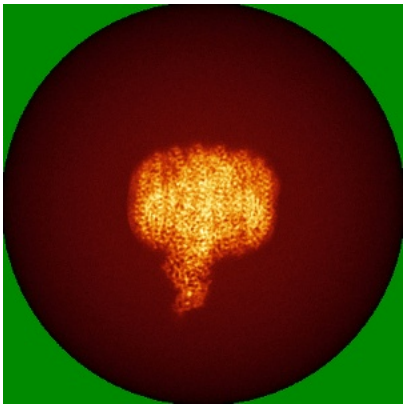


Y

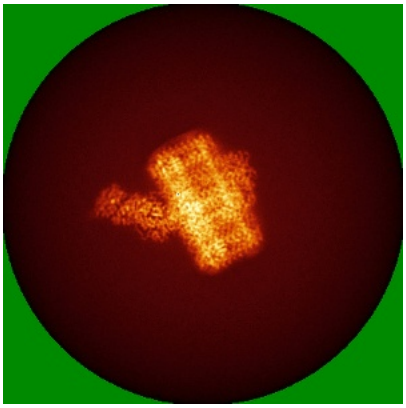


Z

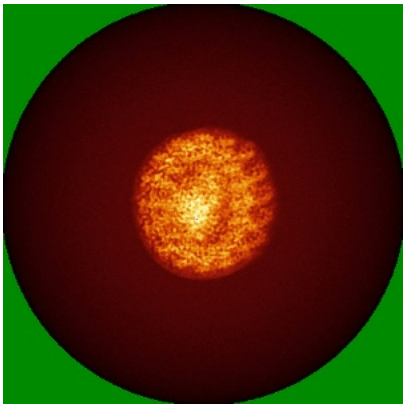
6.4.2 Raw map



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 0.03. 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.

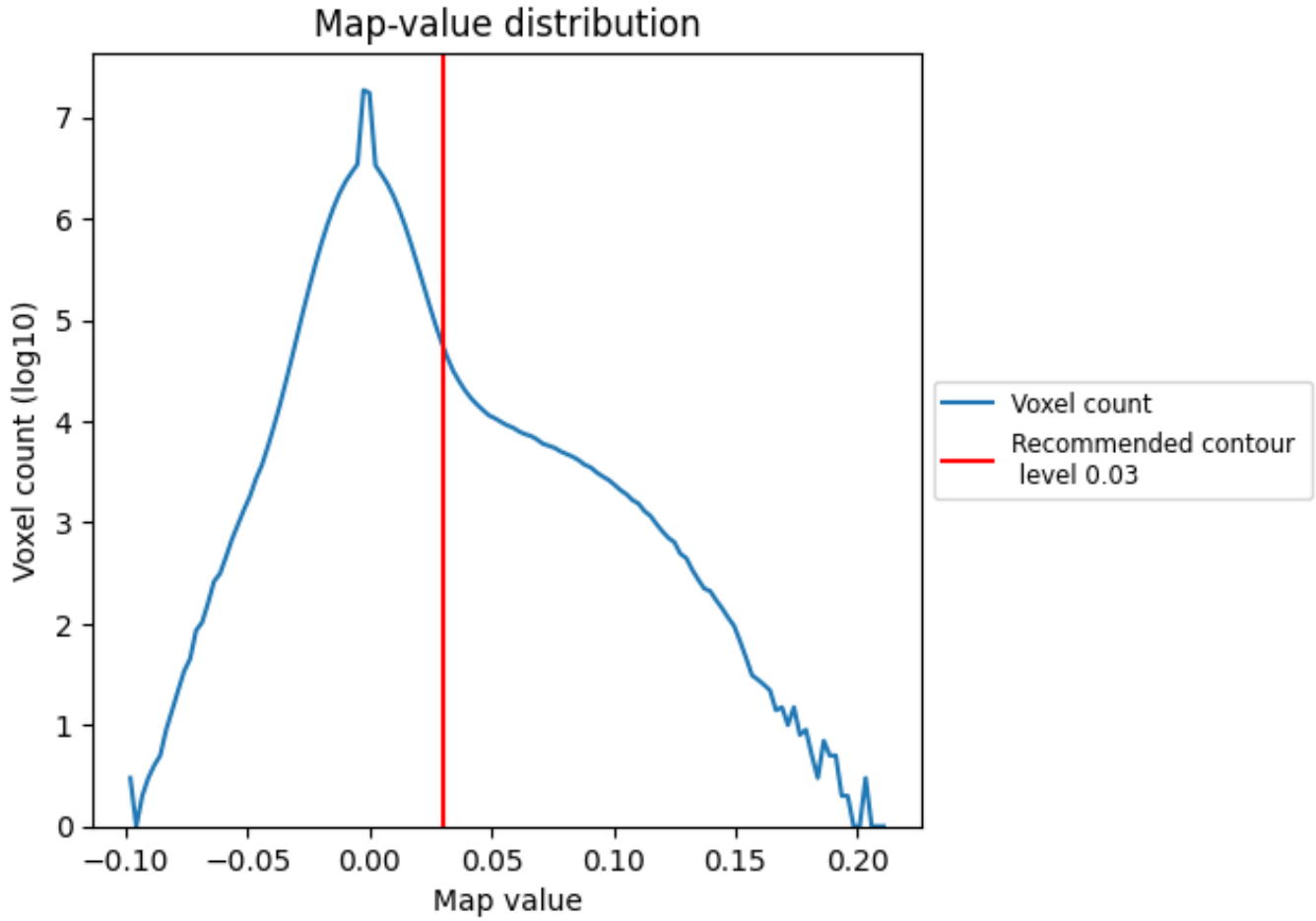
6.6 Mask visualisation (i)

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

7 Map analysis

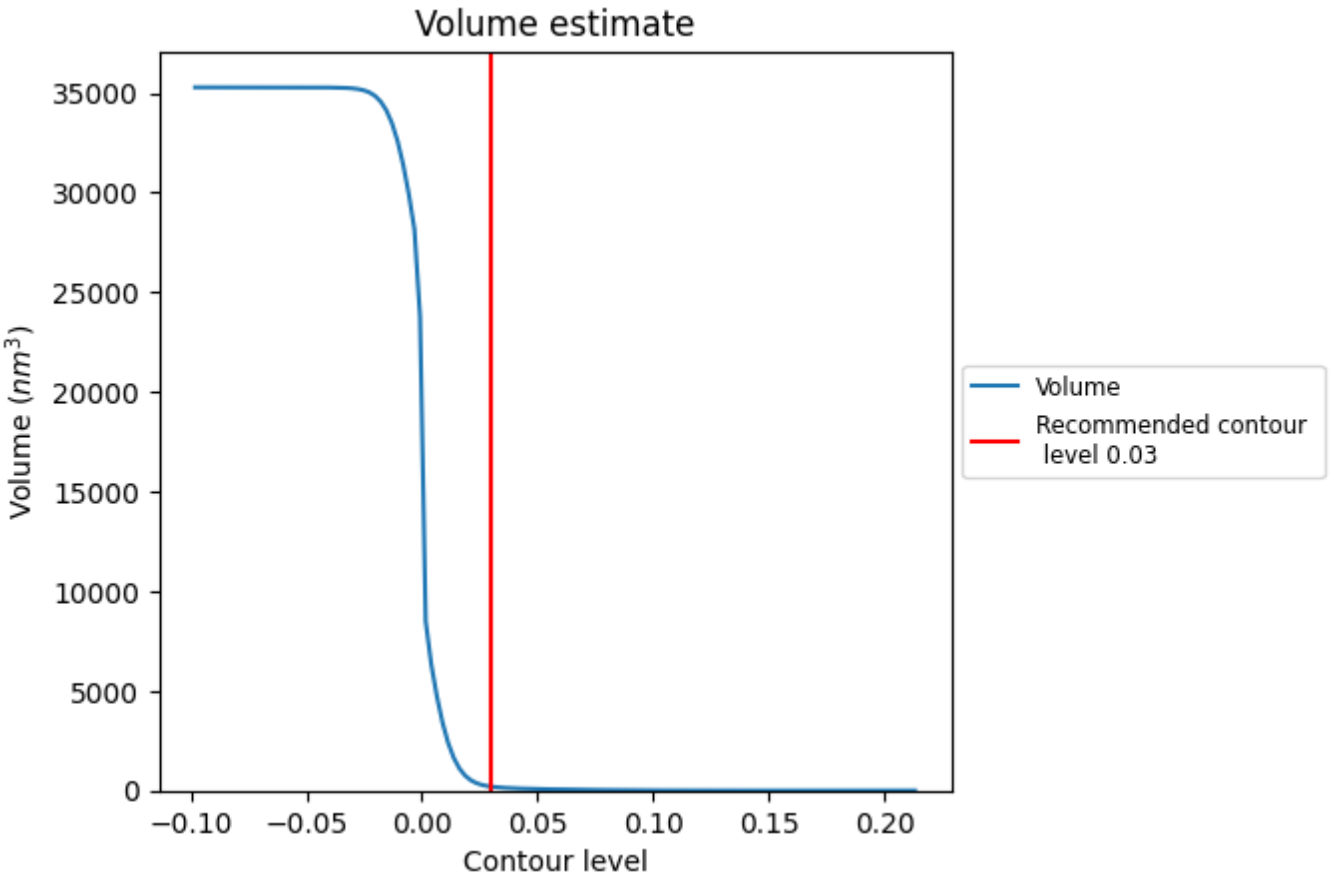
This section contains the results of statistical analysis of the map.

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.

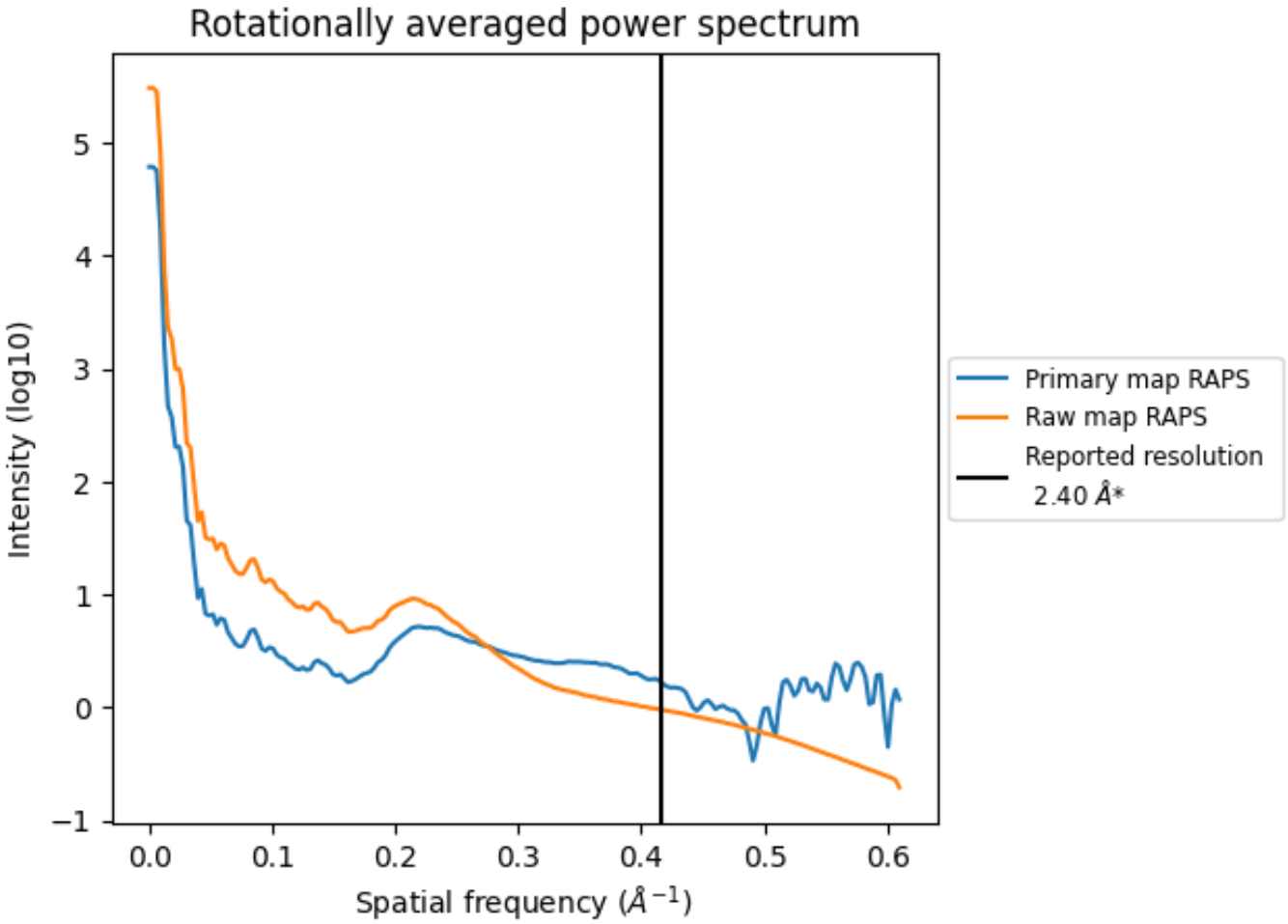
7.2 Volume estimate



The volume at the recommended contour level is 197 nm^3; this corresponds to an approximate mass of 178 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)

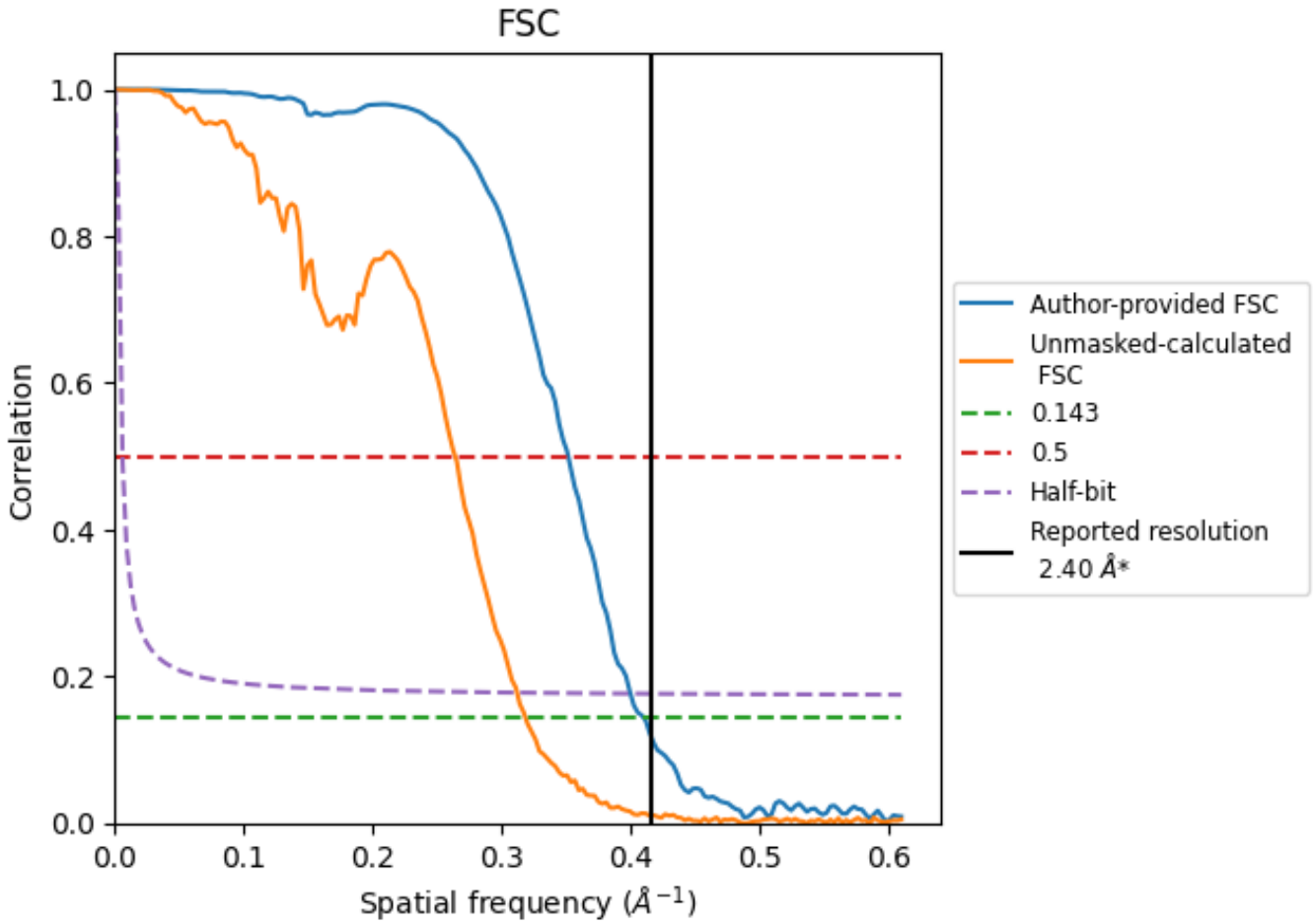


*Reported resolution corresponds to spatial frequency of 0.417 Å^{-1}

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 0.417 Å^{-1}

8.2 Resolution estimates (i)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.40	-	-
Author-provided FSC curve	2.44	2.84	2.50
Unmasked-calculated*	3.14	3.79	3.21

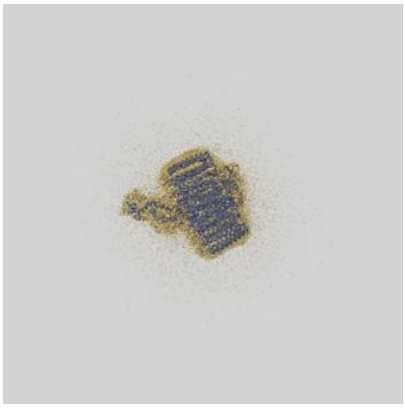
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.14 differs from the reported value 2.4 by more than 10 %

9 Map-model fit

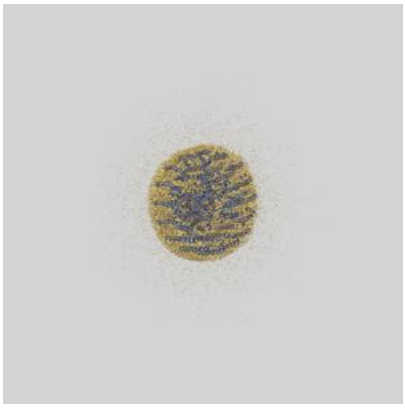
This section contains information regarding the fit between EMDB map EMD-39836 and PDB model 8Z82. Per-residue inclusion information can be found in section 3 on page 24.

9.1 Map-model overlay

X



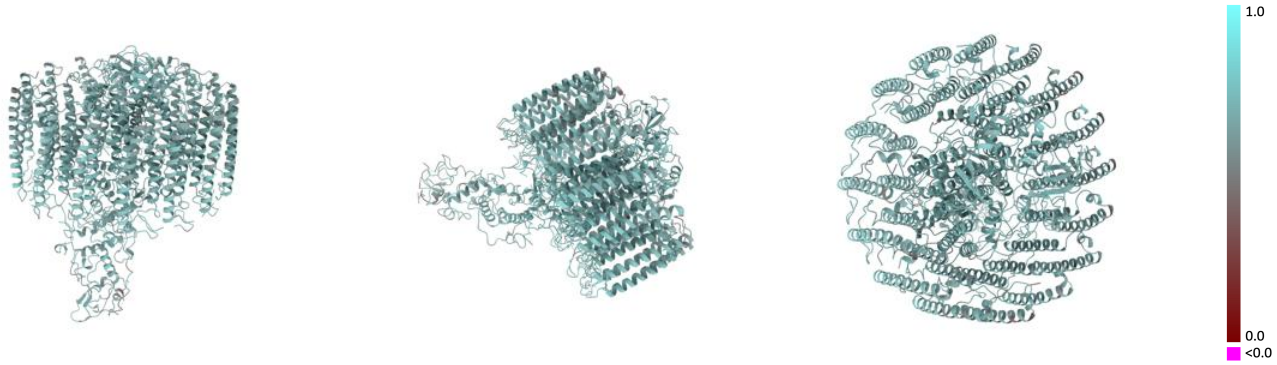
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.03 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.

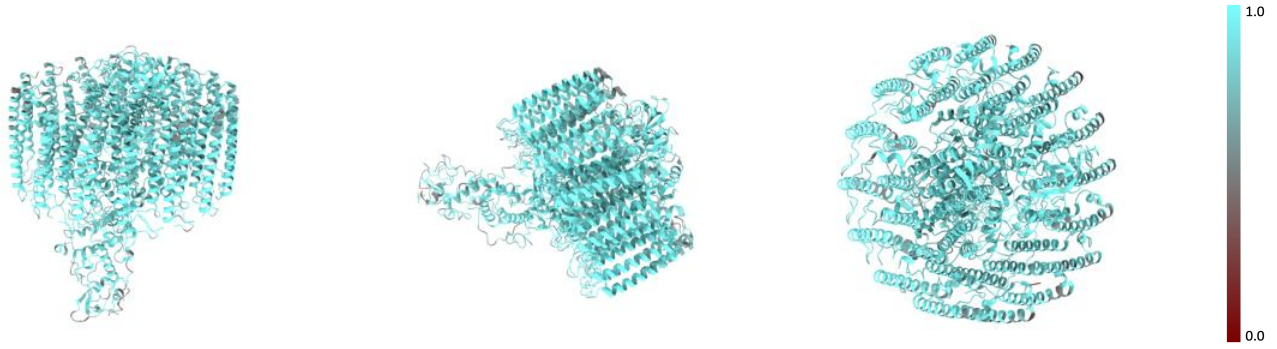
9.2 Q-score mapped to coordinate model (i)



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.

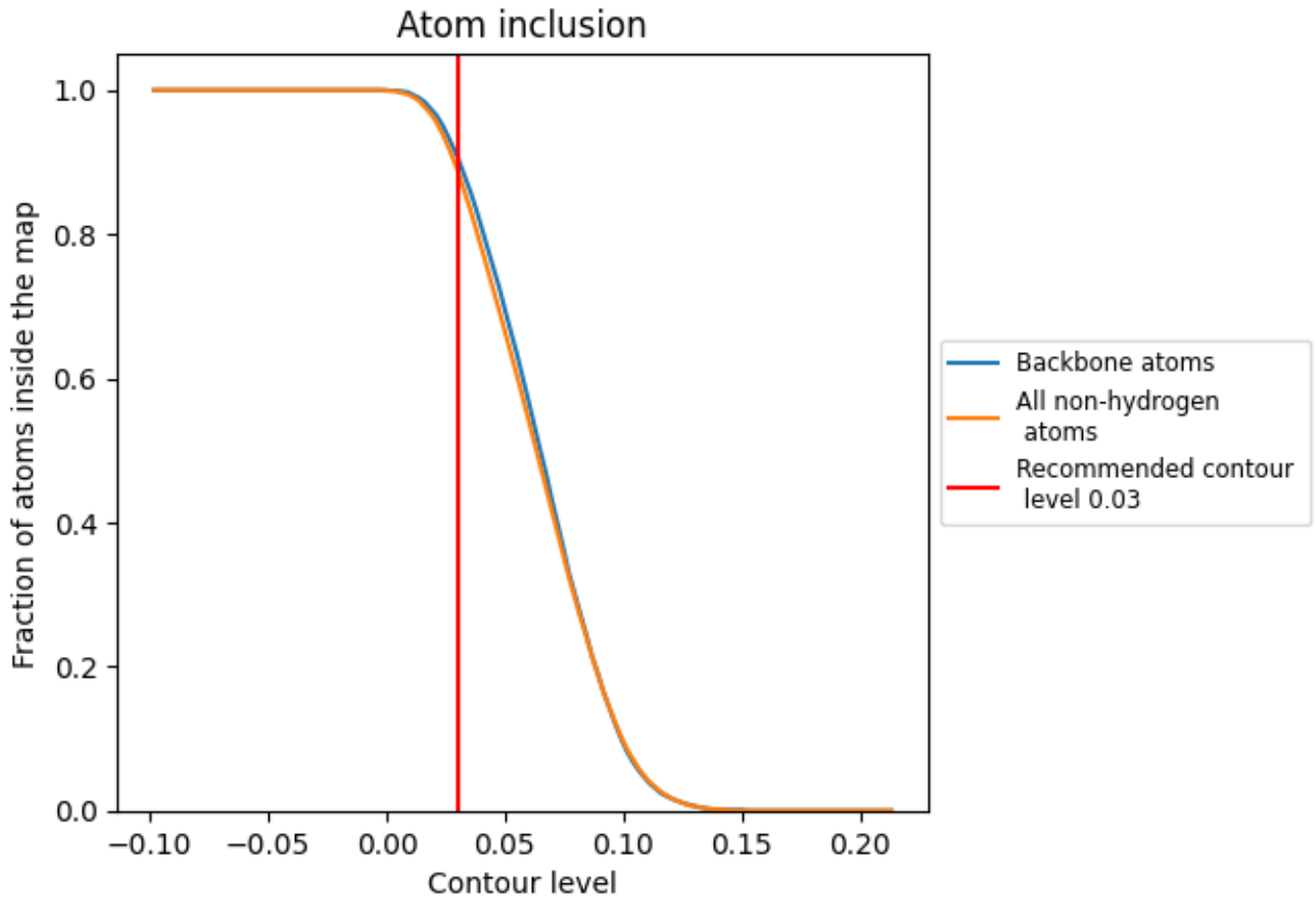
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.03).

9.4 Atom inclusion (i)



At the recommended contour level, 91% of all backbone atoms, 89% 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 (0.03) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8890	0.6390
0	0.8240	0.6130
1	0.9000	0.6370
2	0.8600	0.6160
3	0.8840	0.6280
4	0.8570	0.6190
5	0.8590	0.6130
6	0.7950	0.5990
7	0.8560	0.6050
8	0.8430	0.6190
9	0.9300	0.6440
A	0.9540	0.6570
B	0.8740	0.6360
C	0.9140	0.6570
D	0.9560	0.6700
E	0.9060	0.6440
F	0.9050	0.6410
G	0.8420	0.6230
H	0.9030	0.6450
I	0.8860	0.6280
J	0.8540	0.6270
K	0.9310	0.6460
L	0.9500	0.6730
M	0.9380	0.6680
N	0.8160	0.6140
O	0.8430	0.6130
P	0.8500	0.6190
Q	0.9160	0.6350
R	0.8810	0.6330
S	0.9020	0.6410
T	0.8290	0.6060
U	0.9310	0.6540
V	0.8240	0.6040
W	0.9200	0.6430
X	0.8530	0.6350

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Chain	Atom inclusion	Q-score
Y	0.9200	0.6470
Z	0.8120	0.6000
a	0.7460	0.5640