Full wwPDB EM Validation Report ⓘ

Nov 2, 2024 – 03:34 pm GMT

PDB ID	:	7O0V
EMDB ID	:	EMD-12680
Title	:	Cryo-EM structure (model_2a) of the RC-dLH complex from Gemmatimonas phototrophica at 2.5 A
Authors	:	Qian, P.; Koblizek, M.
Deposited on	:	2021-03-27
Resolution	:	2.50 Å(reported)
Based on initial models	:	1LGH, 6ET5, 5Y5S

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:

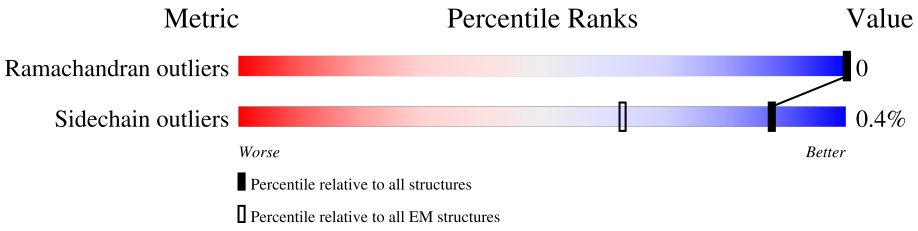
EMDB validation analysis	:	0.0.1.dev113
Mogul	:	1.8.4, CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
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	AA	54	89% · 9%
1	AB	54	11% 89% · 9%
1	AE	54	7% 87% · 9%
1	AF	54	7% 91% 9%
1	AG	54	6% 91% 9%
1	AH	54	6% 89% · 9%
1	AI	54	91% 9%
1	AJ	54	91% 9%
1	AK	54	87% · 9%

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Mol	Chain	Length	Quality of chain
1	AL	54	7% 89% 9%
1	AM	54	91% 9%
1	AN	54	6% 89% 9%
1	AO	54	6% 89% 9%
1	AP	54	89% 9%
1	AQ	54	89% 9%
1	AR	54	6% 91% 9%
1	AS	54	89% 9%
1	AT	54	7% 89% 9%
1	AU	54	7% 89% 9%
1	AV	54	89% 9%
1	AW	54	7% 89% 9%
1	AX	54	6% 87% 9%
2	AC	54	7% 87% 11%
2	AD	54	87% 11%
3	BA	44	5% 89% 11%
3	BC	44	14% 89% 11%
3	BF	44	7% 89% 11%
3	BG	44	89% 11%
3	BH	44	89% 11%
3	BJ	44	86% 11%
3	BK	44	5% 89% 11%
3	BL	44	7% 89% 11%
3	BM	44	89% 11%
3	BN	44	7% 89% 11%

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Mol	Chain	Length	Quality of chain
3	BO	44	5% 89% 11%
3	BP	44	89% 11%
3	BU	44	89% 11%
3	BX	44	11% 89% 11%
3	ba	44	20% 86% 11%
3	bb	44	14% 89% 11%
3	bc	44	9% 89% 11%
3	bd	44	89% 11%
3	be	44	5% 89% 11%
3	bf	44	5% 89% 11%
3	bg	44	9% 89% 11%
3	bh	44	9% 89% 11%
3	bi	44	9% 89% 11%
3	bj	44	5% 89% 11%
3	bk	44	7% 89% 11%
3	bl	44	9% 89% 11%
3	bm	44	11% 89% 11%
3	bo	44	18% 86% 11%
3	bp	44	18% 89% 11%
4	BB	43	12% 93% 7%
4	BD	43	5% 93% 7%
4	BE	43	9% 93% 7%
4	BI	43	9% 93% 7%
4	BQ	43	7% 93% 7%
4	BR	43	9% 93% 7%

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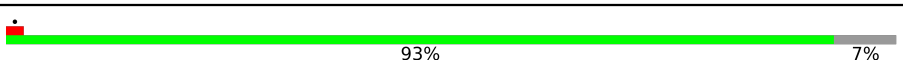
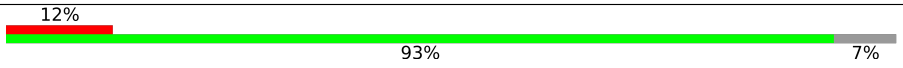
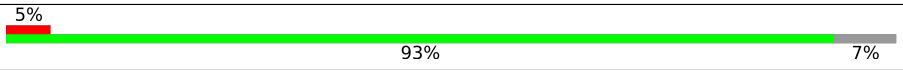
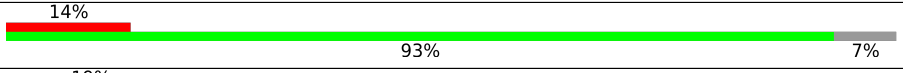
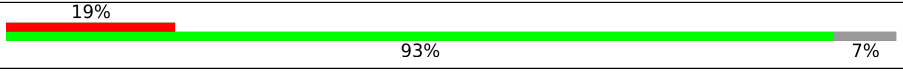
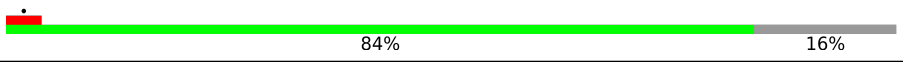
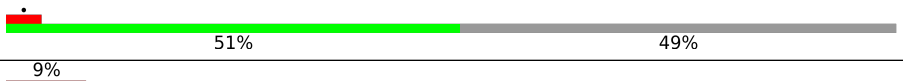
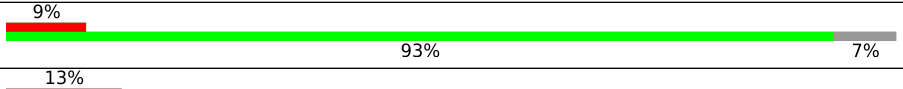
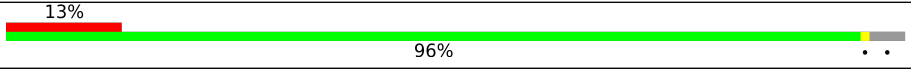
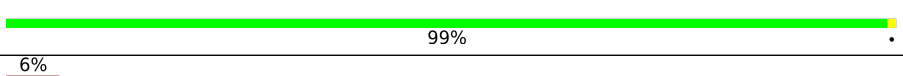
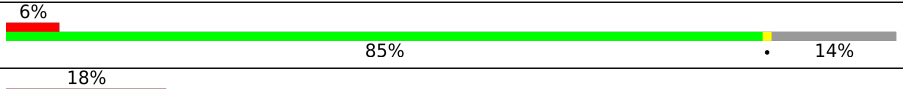
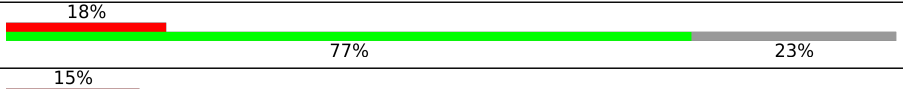
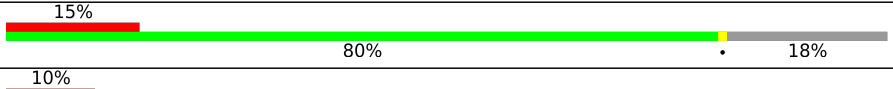
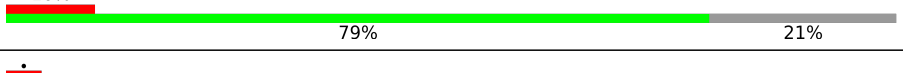
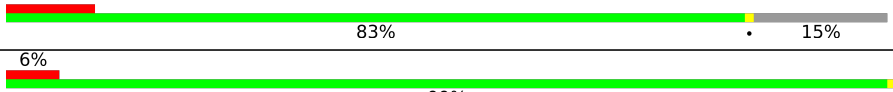
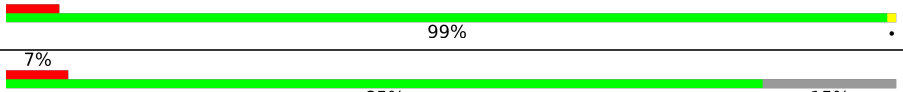
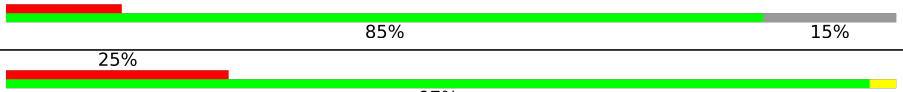
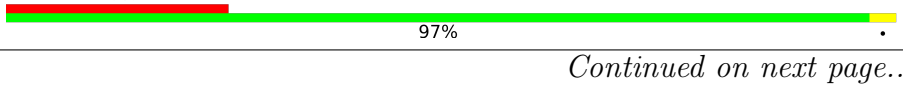
Mol	Chain	Length	Quality of chain
4	BS	43	
4	BT	43	
4	BV	43	
4	BW	43	
4	bn	43	
5	C	354	
6	C1	202	
7	H1	67	
8	H2	181	
9	L	274	
10	M	367	
11	aa	71	
12	ab	71	
12	ac	71	
12	ad	71	
12	ae	71	
12	af	71	
12	ag	71	
12	ah	71	
12	ai	71	
12	aj	71	
12	ak	71	
12	al	71	
12	am	71	
12	an	71	

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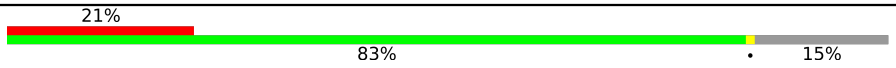
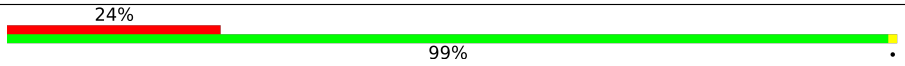
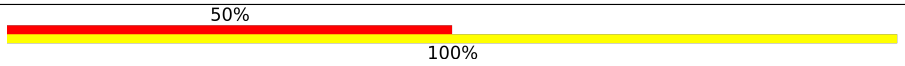
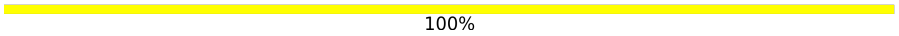
Mol	Chain	Length	Quality of chain
12	ao	71	
12	ap	71	
13	CG	2	
13	MG	2	

2 Entry composition (i)

There are 29 unique types of molecules in this entry. The entry contains 55475 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 LHh-alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AA	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AB	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AE	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AF	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AG	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AH	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AI	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AJ	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AK	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AL	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AM	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AN	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AO	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AP	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AQ	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AR	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AS	49	Total	C	N	O	S	0	0
			391	261	65	61	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AT	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AU	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AV	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AW	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AX	49	Total	C	N	O	S	0	0
			391	261	65	61	4		

- Molecule 2 is a protein called LHh-alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	AC	48	Total	C	N	O	S	0	0
			384	256	64	60	4		
2	AD	48	Total	C	N	O	S	0	0
			384	256	64	60	4		

- Molecule 3 is a protein called Light-harvesting protein B:885 subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	BA	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BC	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BF	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BG	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BH	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BJ	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BK	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BL	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BM	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BN	39	Total	C	N	O	S	0	0
			323	213	55	53	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	BO	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BP	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BU	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	BX	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	ba	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bb	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bc	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bd	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	be	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bf	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bg	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bh	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bi	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bj	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bk	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bl	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bm	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bo	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
3	bp	39	Total	C	N	O	S	0	0
			323	213	55	53	2		

- Molecule 4 is a protein called Light-harvesting protein B:885 subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	BB	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
4	BD	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
4	BE	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
4	BI	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
4	BQ	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
4	BR	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
4	BS	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
4	BT	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
4	BV	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
4	BW	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
4	bn	40	Total	C	N	O	S	0	0
			327	215	56	54	2		

There are 11 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BB	?	-	LYS	deletion	UNP A0A143BHS8
BD	?	-	LYS	deletion	UNP A0A143BHS8
BE	?	-	LYS	deletion	UNP A0A143BHS8
BI	?	-	LYS	deletion	UNP A0A143BHS8
BQ	?	-	LYS	deletion	UNP A0A143BHS8
BR	?	-	LYS	deletion	UNP A0A143BHS8
BS	?	-	LYS	deletion	UNP A0A143BHS8
BT	?	-	LYS	deletion	UNP A0A143BHS8
BV	?	-	LYS	deletion	UNP A0A143BHS8
BW	?	-	LYS	deletion	UNP A0A143BHS8
bn	?	-	LYS	deletion	UNP A0A143BHS8

- Molecule 5 is a protein called MULTIHEME_CYTC domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	C	299	Total	C	N	O	S	0	0
			2325	1464	419	423	19		

- Molecule 6 is a protein called RC-S.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	C1	103	Total	C	N	O	S	0	0
			806	506	151	145	4		

- Molecule 7 is a protein called PRCH domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	H1	62	Total	C	N	O	S	0	0
			522	343	89	88	2		

- Molecule 8 is a protein called RC-Hc.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H2	174	Total	C	N	O	S	0	0
			1354	863	229	258	4		

- Molecule 9 is a protein called Photosynthetic reaction center L subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	L	273	Total	C	N	O	S	0	0
			2165	1457	351	347	10		

- Molecule 10 is a protein called RC-M.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	M	315	Total	C	N	O	S	0	0
			2536	1691	417	418	10		

- Molecule 11 is a protein called LHC domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	aa	55	Total	C	N	O	S	0	0
			433	284	76	71	2		

- Molecule 12 is a protein called LHC domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	ab	58	Total	C	N	O	S	0	0
			455	298	79	75	3		
12	ac	56	Total	C	N	O	S	0	0
			443	290	77	73	3		

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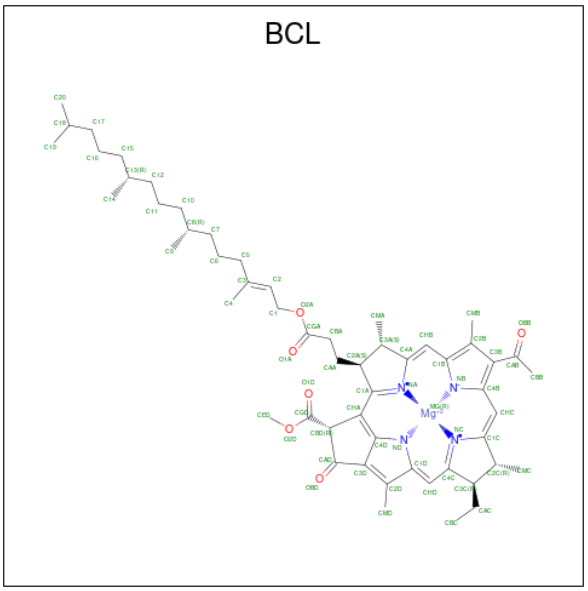
Mol	Chain	Residues	Atoms					AltConf	Trace
12	ad	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
12	ae	58	Total	C	N	O	S	0	0
			455	298	79	75	3		
12	af	58	Total	C	N	O	S	0	0
			455	298	79	75	3		
12	ag	58	Total	C	N	O	S	0	0
			455	298	79	75	3		
12	ah	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
12	ai	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
12	aj	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
12	ak	71	Total	C	N	O	S	0	0
			542	352	95	91	4		
12	al	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
12	am	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
12	an	71	Total	C	N	O	S	0	0
			542	352	95	91	4		
12	ao	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
12	ap	71	Total	C	N	O	S	0	0
			543	352	95	92	4		

- Molecule 13 is an oligosaccharide called alpha-L-rhamnopyranose-(1-4)-alpha-D-mannopyranose.

Mol	Chain	Residues	Atoms				AltConf	Trace
13	CG	2	Total	C	O		0	0
			21	12	9			
13	MG	2	Total	C	O		0	0
			21	12	9			

- Molecule 14 is BACTERIOCHLOROPHYLL A (three-letter code: BCL) (formula: $C_{55}H_{74}MgN_4O_6$).



Mol	Chain	Residues	Atoms					AltConf
14	AA	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AA	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AB	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AB	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AC	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AC	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AC	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AD	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AE	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AE	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AE	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AF	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AG	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AG	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
14	AH	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AH	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AI	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AI	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AJ	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AJ	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AK	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AK	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AL	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AL	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AM	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AM	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AN	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AN	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AN	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AO	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AP	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AP	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AQ	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AQ	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AR	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
14	AR	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AS	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AS	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AS	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AT	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AU	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AU	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AV	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AV	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AV	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AW	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AX	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	AX	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BA	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BB	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BC	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BD	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BE	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BF	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BG	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BH	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
14	BI	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BJ	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BK	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BL	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BM	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BN	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BO	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BP	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BQ	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BR	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BS	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BT	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BU	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BV	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BW	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	BX	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	L	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	L	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	M	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	M	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	aa	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
14	ab	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	ac	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	ad	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	ae	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	af	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	ag	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	ah	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	ai	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	aj	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	ak	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	al	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	am	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	an	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	ao	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	ap	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	ba	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bb	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bc	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bd	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	be	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bf	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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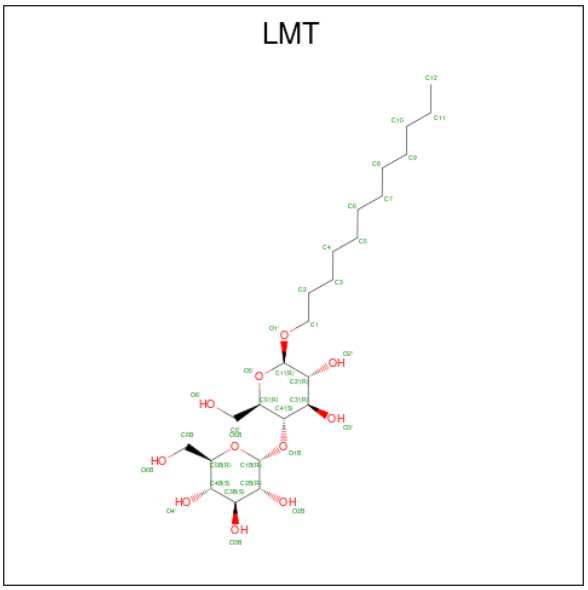
Mol	Chain	Residues	Atoms					AltConf
14	bg	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bh	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bi	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bj	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bk	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bl	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bm	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bn	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bo	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
14	bp	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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



Mol	Chain	Residues	Atoms			AltConf
15	AA	1	Total	C	O	0
			35	24	11	

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Mol	Chain	Residues	Atoms	AltConf
15	AA	1	Total C O 35 24 11	0
15	AC	1	Total C O 35 24 11	0
15	AD	1	Total C O 35 24 11	0
15	AD	1	Total C O 35 24 11	0
15	AE	1	Total C O 35 24 11	0
15	AF	1	Total C O 35 24 11	0
15	AG	1	Total C O 35 24 11	0
15	AH	1	Total C O 35 24 11	0
15	AH	1	Total C O 35 24 11	0
15	AI	1	Total C O 35 24 11	0
15	AJ	1	Total C O 35 24 11	0
15	AJ	1	Total C O 35 24 11	0
15	AL	1	Total C O 35 24 11	0
15	AN	1	Total C O 35 24 11	0
15	AP	1	Total C O 35 24 11	0
15	AP	1	Total C O 35 24 11	0
15	AQ	1	Total C O 35 24 11	0
15	AS	1	Total C O 35 24 11	0
15	AT	1	Total C O 35 24 11	0
15	AU	1	Total C O 35 24 11	0
15	AX	1	Total C O 35 24 11	0

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Mol	Chain	Residues	Atoms	AltConf
15	BA	1	Total C O 35 24 11	0
15	BA	1	Total C O 35 24 11	0
15	BA	1	Total C O 35 24 11	0
15	BB	1	Total C O 35 24 11	0
15	BB	1	Total C O 35 24 11	0
15	BB	1	Total C O 35 24 11	0
15	BC	1	Total C O 35 24 11	0
15	BC	1	Total C O 35 24 11	0
15	BC	1	Total C O 35 24 11	0
15	BC	1	Total C O 35 24 11	0
15	BD	1	Total C O 35 24 11	0
15	BD	1	Total C O 35 24 11	0
15	BD	1	Total C O 35 24 11	0
15	BE	1	Total C O 35 24 11	0
15	BE	1	Total C O 35 24 11	0
15	BF	1	Total C O 35 24 11	0
15	BF	1	Total C O 35 24 11	0
15	BG	1	Total C O 35 24 11	0
15	BG	1	Total C O 35 24 11	0
15	BG	1	Total C O 35 24 11	0
15	BG	1	Total C O 35 24 11	0

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Mol	Chain	Residues	Atoms			AltConf
15	BH	1	Total	C	O	0
			35	24	11	
15	BH	1	Total	C	O	0
			35	24	11	
15	BH	1	Total	C	O	0
			35	24	11	
15	BI	1	Total	C	O	0
			35	24	11	
15	BI	1	Total	C	O	0
			35	24	11	
15	BI	1	Total	C	O	0
			35	24	11	
15	BI	1	Total	C	O	0
			35	24	11	
15	BJ	1	Total	C	O	0
			35	24	11	
15	BJ	1	Total	C	O	0
			35	24	11	
15	BK	1	Total	C	O	0
			35	24	11	
15	BK	1	Total	C	O	0
			35	24	11	
15	BK	1	Total	C	O	0
			35	24	11	
15	BK	1	Total	C	O	0
			35	24	11	
15	BL	1	Total	C	O	0
			35	24	11	
15	BL	1	Total	C	O	0
			35	24	11	
15	BL	1	Total	C	O	0
			35	24	11	
15	BM	1	Total	C	O	0
			35	24	11	
15	BM	1	Total	C	O	0
			35	24	11	
15	BN	1	Total	C	O	0
			35	24	11	
15	BN	1	Total	C	O	0
			35	24	11	
15	BN	1	Total	C	O	0
			35	24	11	

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Mol	Chain	Residues	Atoms			AltConf
15	BN	1	Total	C	O	0
			35	24	11	
15	BO	1	Total	C	O	0
			35	24	11	
15	BO	1	Total	C	O	0
			35	24	11	
15	BP	1	Total	C	O	0
			35	24	11	
15	BP	1	Total	C	O	0
			35	24	11	
15	BP	1	Total	C	O	0
			35	24	11	
15	BQ	1	Total	C	O	0
			35	24	11	
15	BQ	1	Total	C	O	0
			35	24	11	
15	BQ	1	Total	C	O	0
			35	24	11	
15	BR	1	Total	C	O	0
			35	24	11	
15	BR	1	Total	C	O	0
			35	24	11	
15	BR	1	Total	C	O	0
			35	24	11	
15	BS	1	Total	C	O	0
			35	24	11	
15	BS	1	Total	C	O	0
			35	24	11	
15	BS	1	Total	C	O	0
			35	24	11	
15	BS	1	Total	C	O	0
			35	24	11	
15	BT	1	Total	C	O	0
			35	24	11	
15	BT	1	Total	C	O	0
			35	24	11	
15	BT	1	Total	C	O	0
			35	24	11	
15	BU	1	Total	C	O	0
			35	24	11	
15	BU	1	Total	C	O	0
			35	24	11	

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Mol	Chain	Residues	Atoms	AltConf
15	BV	1	Total C O 35 24 11	0
15	BV	1	Total C O 35 24 11	0
15	BV	1	Total C O 35 24 11	0
15	BV	1	Total C O 35 24 11	0
15	BW	1	Total C O 35 24 11	0
15	BW	1	Total C O 35 24 11	0
15	BW	1	Total C O 35 24 11	0
15	BX	1	Total C O 35 24 11	0
15	BX	1	Total C O 35 24 11	0
15	L	1	Total C O 35 24 11	0
15	L	1	Total C O 35 24 11	0
15	L	1	Total C O 35 24 11	0
15	L	1	Total C O 35 24 11	0
15	L	1	Total C O 35 24 11	0
15	L	1	Total C O 35 24 11	0
15	M	1	Total C O 35 24 11	0
15	ab	1	Total C O 35 24 11	0
15	bb	1	Total C O 35 24 11	0
15	bc	1	Total C O 35 24 11	0
15	bd	1	Total C O 35 24 11	0
15	be	1	Total C O 35 24 11	0

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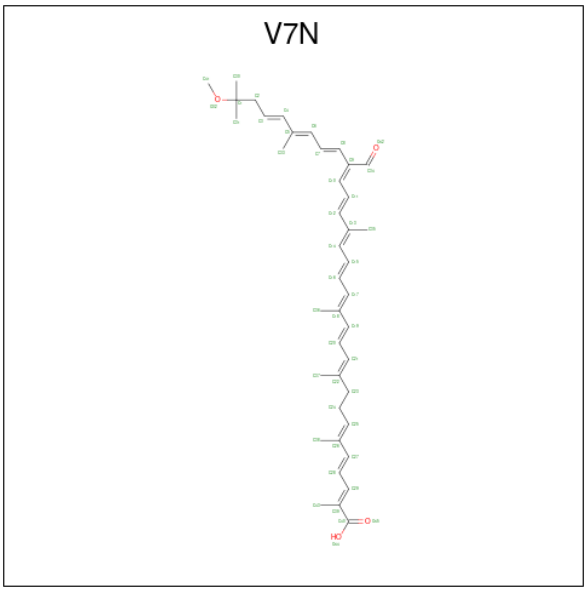
Mol	Chain	Residues	Atoms			AltConf
15	bf	1	Total	C	O	0
			35	24	11	
15	bg	1	Total	C	O	0
			35	24	11	
15	bh	1	Total	C	O	0
			35	24	11	
15	bh	1	Total	C	O	0
			35	24	11	
15	bi	1	Total	C	O	0
			35	24	11	
15	bj	1	Total	C	O	0
			35	24	11	
15	bl	1	Total	C	O	0
			35	24	11	
15	bl	1	Total	C	O	0
			35	24	11	
15	bm	1	Total	C	O	0
			35	24	11	
15	bm	1	Total	C	O	0
			35	24	11	
15	bn	1	Total	C	O	0
			35	24	11	
15	bn	1	Total	C	O	0
			35	24	11	
15	bo	1	Total	C	O	0
			35	24	11	
15	bo	1	Total	C	O	0
			35	24	11	

- Molecule 16 is (2 {E},4 {E},6 {E},10 {E},12 {E},14 {E},16 {E},18 {E},20 {E},22 {Z},24 {E},26 {E},28 {E})-23-methanoyl-31-methoxy-2,6,10,14,19,27,31-heptamethyl-dotriaconta-2,4,6,10,12,14,16,18,20,22,24,26,28-tridecaenoic acid (three-letter code: V7N) (formula: $C_{41}H_{54}O_4$).



Mol	Chain	Residues	Atoms			AltConf
16	AE	1	Total	C	O	0
			45	41	4	
16	AO	1	Total	C	O	0
			45	41	4	
16	AS	1	Total	C	O	0
			45	41	4	
16	BA	1	Total	C	O	0
			45	41	4	
16	BB	1	Total	C	O	0
			45	41	4	
16	BC	1	Total	C	O	0
			45	41	4	
16	BD	1	Total	C	O	0
			45	41	4	
16	BE	1	Total	C	O	0
			45	41	4	
16	BG	1	Total	C	O	0
			45	41	4	
16	BH	1	Total	C	O	0
			45	41	4	
16	BI	1	Total	C	O	0
			45	41	4	
16	BJ	1	Total	C	O	0
			45	41	4	
16	BK	1	Total	C	O	0
			45	41	4	
16	BL	1	Total	C	O	0
			45	41	4	

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Mol	Chain	Residues	Atoms	AltConf
16	BM	1	Total C O 45 41 4	0
16	BO	1	Total C O 45 41 4	0
16	BP	1	Total C O 45 41 4	0
16	BQ	1	Total C O 45 41 4	0
16	BR	1	Total C O 45 41 4	0
16	BS	1	Total C O 45 41 4	0
16	BU	1	Total C O 45 41 4	0
16	BV	1	Total C O 45 41 4	0
16	BW	1	Total C O 45 41 4	0
16	BX	1	Total C O 45 41 4	0
16	ba	1	Total C O 45 41 4	0
16	bb	1	Total C O 45 41 4	0
16	bc	1	Total C O 45 41 4	0
16	bd	1	Total C O 45 41 4	0
16	be	1	Total C O 45 41 4	0
16	bf	1	Total C O 45 41 4	0
16	bg	1	Total C O 45 41 4	0
16	bh	1	Total C O 45 41 4	0
16	bi	1	Total C O 45 41 4	0
16	bj	1	Total C O 45 41 4	0
16	bk	1	Total C O 45 41 4	0

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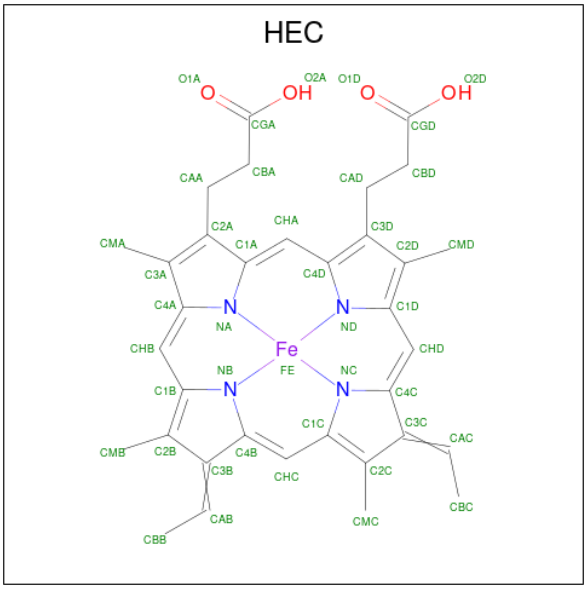
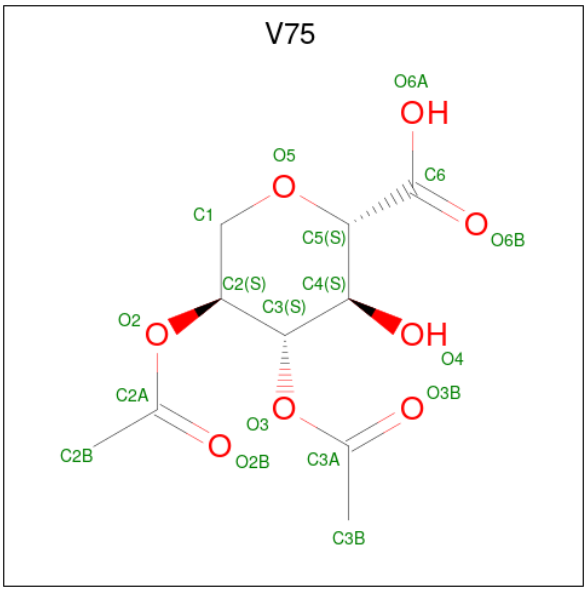
Mol	Chain	Residues	Atoms	AltConf
16	bl	1	Total C O 45 41 4	0
16	bm	1	Total C O 45 41 4	0
16	bn	1	Total C O 45 41 4	0
16	bo	1	Total C O 45 41 4	0
16	bp	1	Total C O 45 41 4	0

- Molecule 17 is HEME C (three-letter code: HEC) (formula: $C_{34}H_{34}FeN_4O_4$).



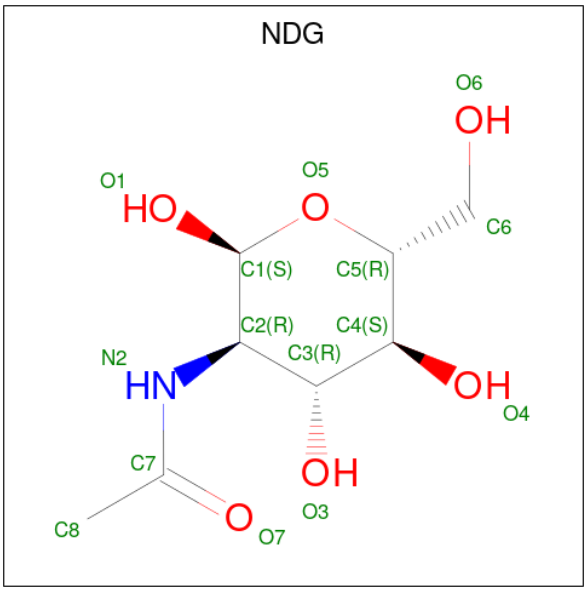
Mol	Chain	Residues	Atoms	AltConf
17	C	1	Total C Fe N O 43 34 1 4 4	0
17	C	1	Total C Fe N O 43 34 1 4 4	0
17	C	1	Total C Fe N O 43 34 1 4 4	0
17	C	1	Total C Fe N O 43 34 1 4 4	0

- Molecule 18 is (2 {S},3 {S},4 {S},5 {S})-4,5-diacetyloxy-3-oxidanyl-oxane-2-carboxylic acid (three-letter code: V75) (formula: $C_{10}H_{14}O_8$).



Mol	Chain	Residues	Atoms	AltConf
18	C	1	Total C O 18 10 8	0
18	M	1	Total C O 18 10 8	0

- Molecule 19 is 2-acetamido-2-deoxy-alpha-D-glucopyranose (three-letter code: NDG) (formula: $C_8H_{15}NO_6$).



Mol	Chain	Residues	Atoms	AltConf
19	C	1	Total C N O 14 8 1 5	0

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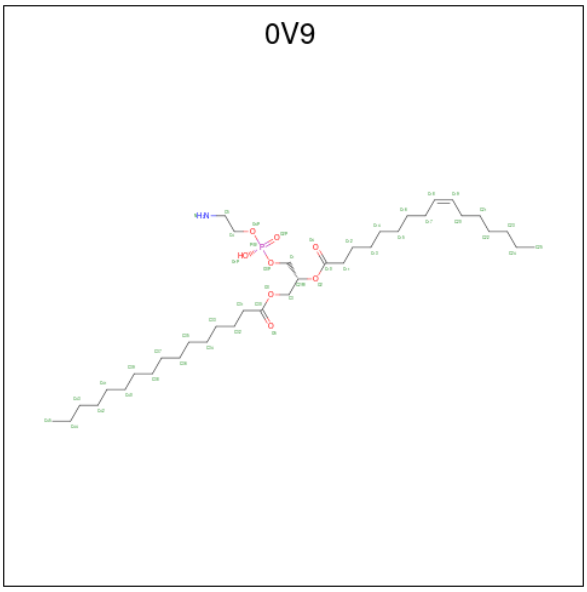
Mol	Chain	Residues	Atoms				AltConf
19	C1	1	Total	C	N	O	0
			14	8	1	5	

- Molecule 20 is (19R,22S)-25-amino-22-hydroxy-22-oxido-16-oxo-17,21,23-trioxa-22lambda 5 -phosphapentacosan-19-yl (9Z)-hexadec-9-enoate (three-letter code: 0V9) (formula: $C_{37}H_{72}NO_8P$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
20	C1	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	H1	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	aj	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	ba	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bb	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bc	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	be	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	be	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bg	1	Total	C	N	O	P	0
			45	35	1	8	1	

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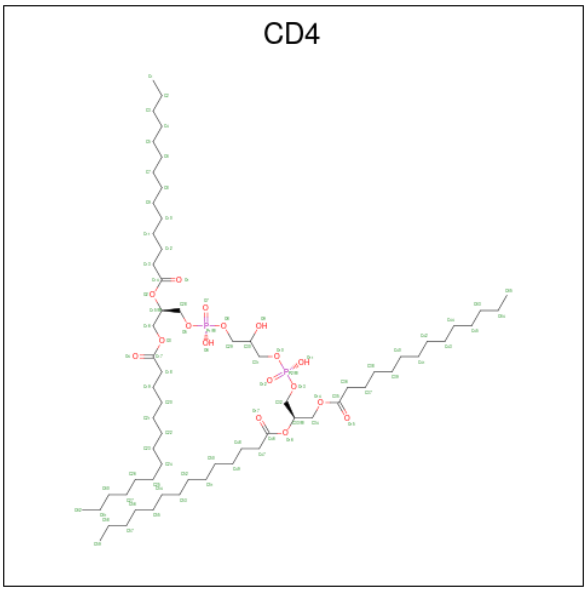
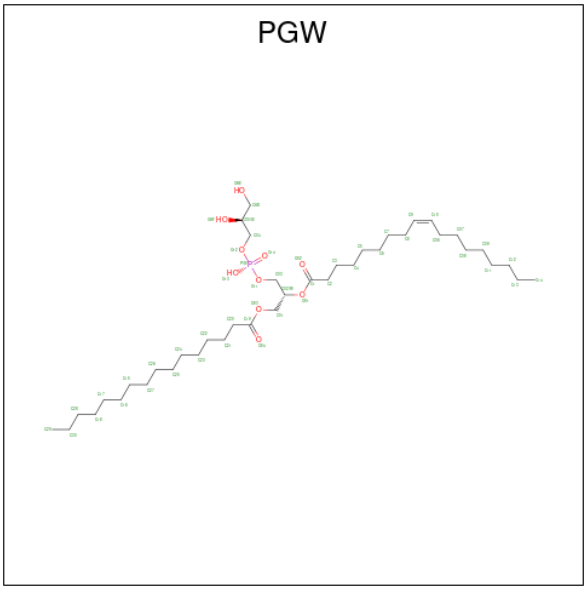
Mol	Chain	Residues	Atoms					AltConf
20	bg	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bh	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bi	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bj	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bk	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bk	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bl	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bm	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bn	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bo	1	Total	C	N	O	P	0
			45	35	1	8	1	
20	bp	1	Total	C	N	O	P	0
			45	35	1	8	1	

- Molecule 21 is (2R,5R,11R,14R)-5,8,11-trihydroxy-5,11-dioxido-17-oxo-2,14-bis(tetradecanoyloxy)-4,6,10,12,16-pentaoxa-5,11-diphosphatriacont-1-yl tetradecanoate (three-letter code: CD4) (formula: $C_{65}H_{126}O_{17}P_2$).



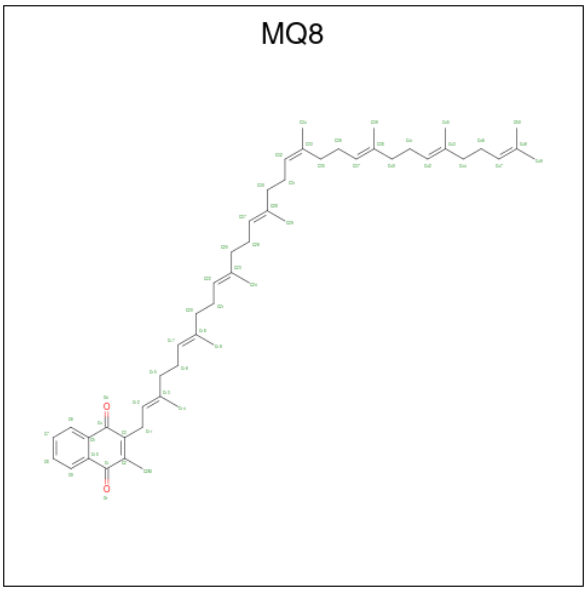
Mol	Chain	Residues	Atoms				AltConf
21	H1	1	Total	C	O	P	0
			84	65	17	2	
21	H1	1	Total	C	O	P	0
			84	65	17	2	
21	M	1	Total	C	O	P	0
			84	65	17	2	
21	ae	1	Total	C	O	P	0
			84	65	17	2	
21	af	1	Total	C	O	P	0
			84	65	17	2	
21	aj	1	Total	C	O	P	0
			84	65	17	2	

- Molecule 22 is (1R)-2-{[(S)-{[(2S)-2,3-dihydroxypropyl]oxy}(hydroxy)phosphoryl]oxy}-1-[(hexadecanoyloxy)methyl]ethyl (9Z)-octadec-9-enoate (three-letter code: PGW) (formula: $C_{40}H_{77}O_{10}P$).



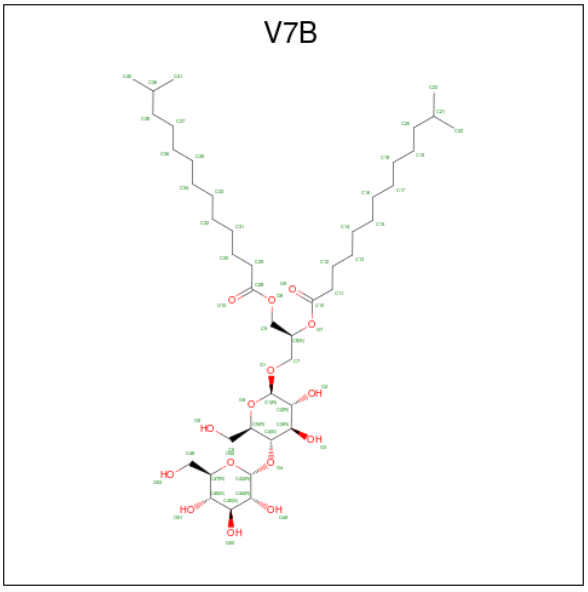
Mol	Chain	Residues	Atoms				AltConf
22	H1	1	Total	C	O	P	0
			51	40	10	1	

- Molecule 23 is MENAQUINONE 8 (three-letter code: MQ8) (formula: $C_{51}H_{72}O_2$).



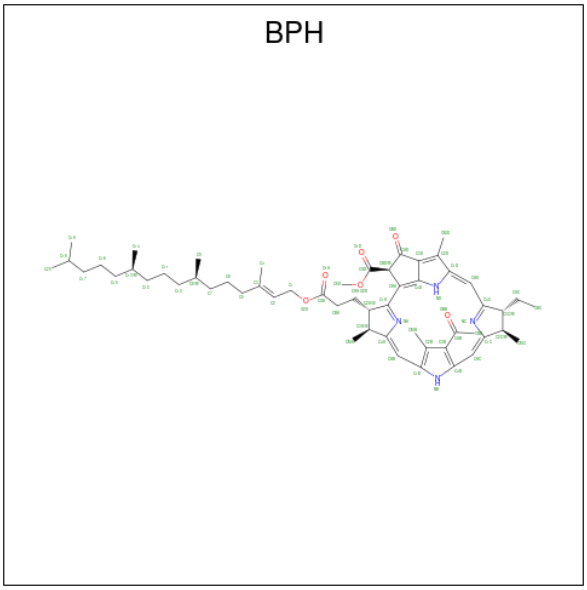
Mol	Chain	Residues	Atoms			AltConf
23	L	1	Total	C	O	0
			53	51	2	
23	M	1	Total	C	O	0
			53	51	2	
23	ao	1	Total	C	O	0
			53	51	2	

- Molecule 24 is [(2 {S})-3-[(2 {R},3 {R},4 {R},5 {S},6 {R})-6-(hydroxymethyl)-5-[(2 {R},3 {R},4 {S},5 {S},6 {R})-6-(hydroxymethyl)-3,4,5-tris(oxidanyl)oxan-2-yl]oxy-3,4-bis(oxidanyl)oxan-2-yl]oxy-2-(12-methyltridecanoyloxy)propyl] 12-methyltridecanoate (three-letter code: V7B) (formula: $C_{43}H_{80}O_{15}$).



Mol	Chain	Residues	Atoms	AltConf
24	L	1	Total C O 58 43 15	0
24	ag	1	Total C O 58 43 15	0

- Molecule 25 is BACTERIOPHEOPHYTIN A (three-letter code: BPH) (formula: $C_{55}H_{76}N_4O_6$).

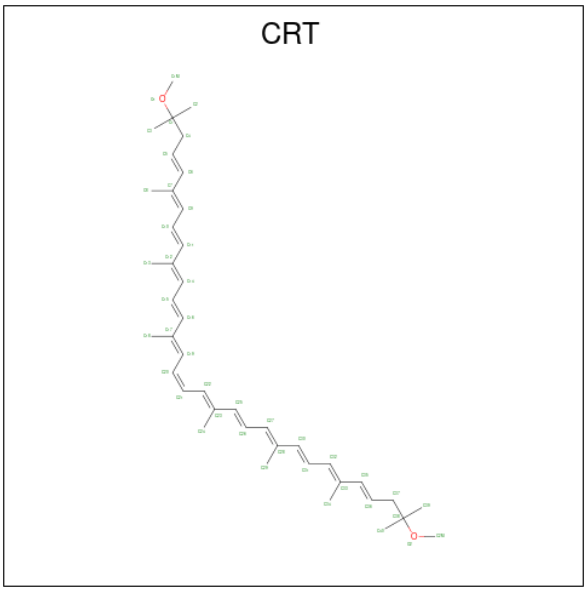


Mol	Chain	Residues	Atoms	AltConf
25	L	1	Total C N O 65 55 4 6	0
25	M	1	Total C N O 65 55 4 6	0

- Molecule 26 is FE (III) ION (three-letter code: FE) (formula: Fe).

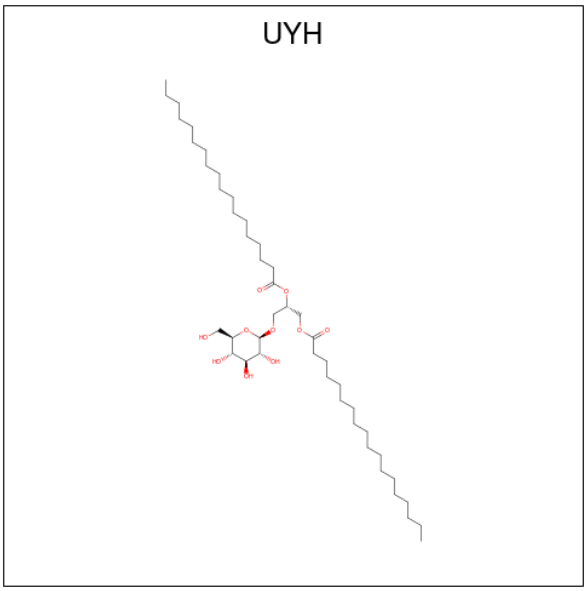
Mol	Chain	Residues	Atoms	AltConf
26	M	1	Total Fe 1 1	0

- Molecule 27 is SPIRILLOXANTHIN (three-letter code: CRT) (formula: $C_{42}H_{60}O_2$).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
27	M	1	44	42	2	0

- Molecule 28 is [(2 {S})-3-[(2 {R},3 {R},4 {S},5 {S},6 {R})-6-(hydroxymethyl)-3,4,5-tris(oxidanyl)oxan-2-yl]oxy-2-octadecanoyloxy-propyl] octadecanoate (three-letter code: UYH) (formula: $C_{45}H_{86}O_{10}$).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
28	ai	1	55	45	10	0

- Molecule 29 is water.

Mol	Chain	Residues	Atoms	AltConf
29	AA	2	Total O 2 2	0
29	AB	3	Total O 3 3	0
29	AC	3	Total O 3 3	0
29	AD	1	Total O 1 1	0
29	AE	3	Total O 3 3	0
29	AF	2	Total O 2 2	0
29	AG	5	Total O 5 5	0
29	AH	1	Total O 1 1	0
29	AI	3	Total O 3 3	0
29	AJ	5	Total O 5 5	0
29	AK	4	Total O 4 4	0
29	AL	2	Total O 2 2	0
29	AM	6	Total O 6 6	0
29	AN	4	Total O 4 4	0
29	AO	4	Total O 4 4	0
29	AP	4	Total O 4 4	0
29	AQ	4	Total O 4 4	0
29	AS	6	Total O 6 6	0
29	AT	2	Total O 2 2	0
29	AU	1	Total O 1 1	0
29	AV	6	Total O 6 6	0
29	AW	2	Total O 2 2	0

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Mol	Chain	Residues	Atoms	AltConf
29	AX	3	Total O 3 3	0
29	BB	1	Total O 1 1	0
29	BI	1	Total O 1 1	0
29	BJ	1	Total O 1 1	0
29	BO	1	Total O 1 1	0
29	BP	1	Total O 1 1	0
29	C	86	Total O 86 86	0
29	C1	42	Total O 42 42	0
29	H1	17	Total O 17 17	0
29	H2	9	Total O 9 9	0
29	L	51	Total O 51 51	0
29	M	58	Total O 58 58	0
29	aa	3	Total O 3 3	0
29	ab	3	Total O 3 3	0
29	ac	3	Total O 3 3	0
29	ad	6	Total O 6 6	0
29	ae	10	Total O 10 10	0
29	af	11	Total O 11 11	0
29	ag	7	Total O 7 7	0
29	ah	6	Total O 6 6	0
29	ai	5	Total O 5 5	0

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Mol	Chain	Residues	Atoms	AltConf
29	aj	7	Total O 7 7	0
29	ak	13	Total O 13 13	0
29	al	5	Total O 5 5	0
29	am	5	Total O 5 5	0
29	an	9	Total O 9 9	0
29	ao	5	Total O 5 5	0
29	ap	11	Total O 11 11	0
29	ba	3	Total O 3 3	0
29	bb	4	Total O 4 4	0
29	bc	2	Total O 2 2	0
29	bd	3	Total O 3 3	0
29	be	4	Total O 4 4	0
29	bf	1	Total O 1 1	0
29	bg	2	Total O 2 2	0
29	bh	2	Total O 2 2	0
29	bi	2	Total O 2 2	0
29	bj	3	Total O 3 3	0
29	bk	3	Total O 3 3	0
29	bl	3	Total O 3 3	0
29	bm	2	Total O 2 2	0
29	bn	1	Total O 1 1	0

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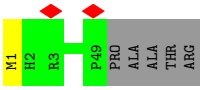
Mol	Chain	Residues	Atoms		AltConf
			Total	O	
29	bo	1	1	1	0

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.

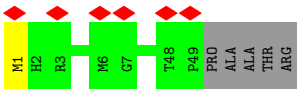
• Molecule 1: LHh-alpha

Chain AA:



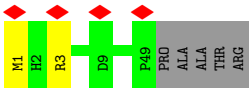
• Molecule 1: LHh-alpha

Chain AB:



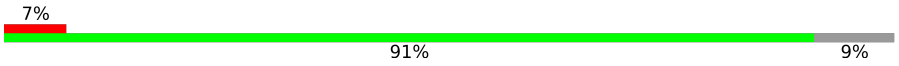
• Molecule 1: LHh-alpha

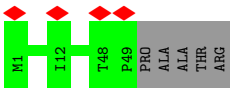
Chain AE:



• Molecule 1: LHh-alpha

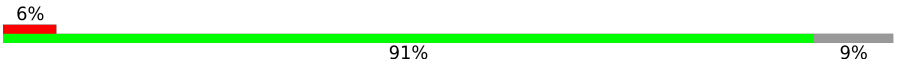
Chain AF:

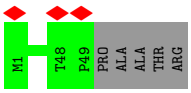




• Molecule 1: LHh-alpha

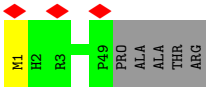
Chain AG:





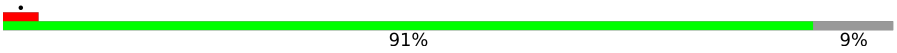
• Molecule 1: LHh-alpha

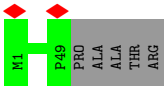
Chain AH:



• Molecule 1: LHh-alpha

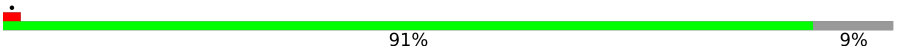
Chain AI:

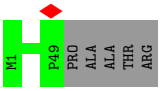




• Molecule 1: LHh-alpha

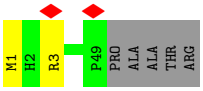
Chain AJ:





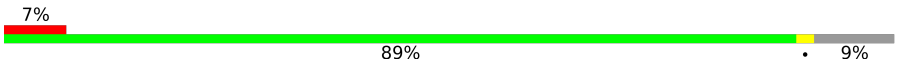
• Molecule 1: LHh-alpha

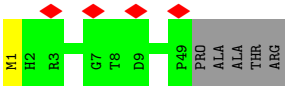
Chain AK:



• Molecule 1: LHh-alpha

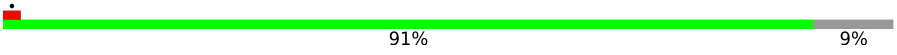
Chain AL:

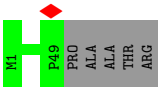




• Molecule 1: LHh-alpha

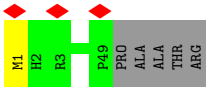
Chain AM:





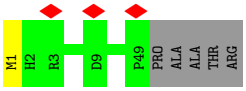
• Molecule 1: LHh-alpha

Chain AN:



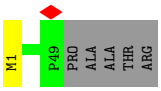
• Molecule 1: LHh-alpha

Chain AO:



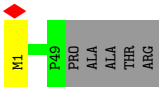
• Molecule 1: LHh-alpha

Chain AP:



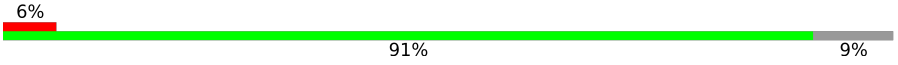
• Molecule 1: LHh-alpha

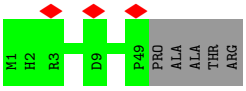
Chain AQ:



• Molecule 1: LHh-alpha

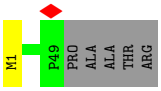
Chain AR:





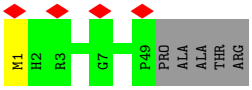
• Molecule 1: LHh-alpha

Chain AS:



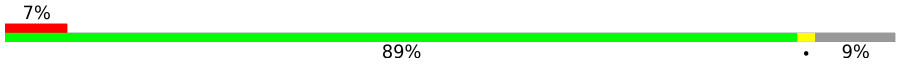
• Molecule 1: LHh-alpha

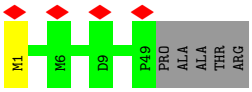
Chain AT:



• Molecule 1: LHh-alpha

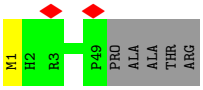
Chain AU:





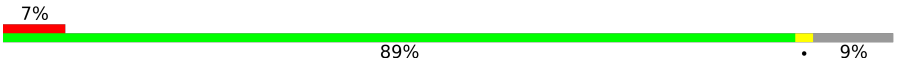
• Molecule 1: LHh-alpha

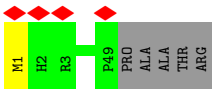
Chain AV:



• Molecule 1: LHh-alpha

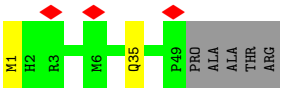
Chain AW:





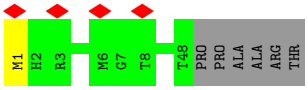
• Molecule 1: LHh-alpha

Chain AX:



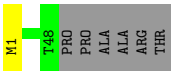
• Molecule 2: LHh-alpha

Chain AC:



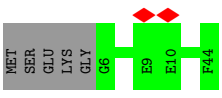
• Molecule 2: LHh-alpha

Chain AD:



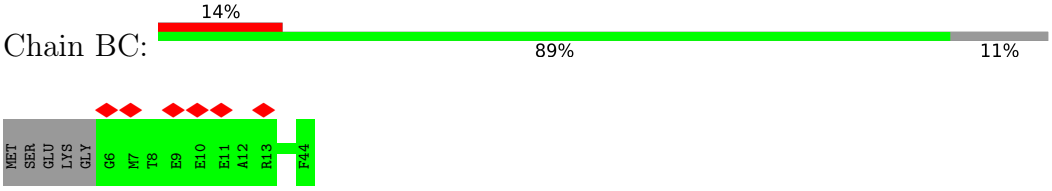
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BA:



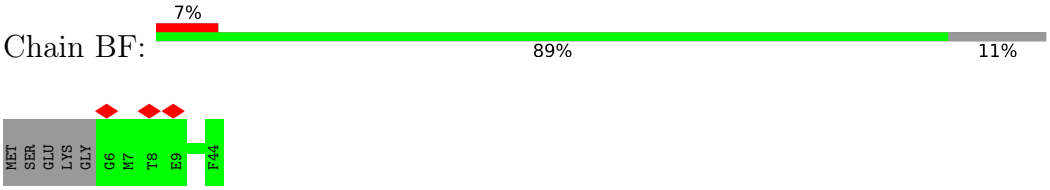
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BC:



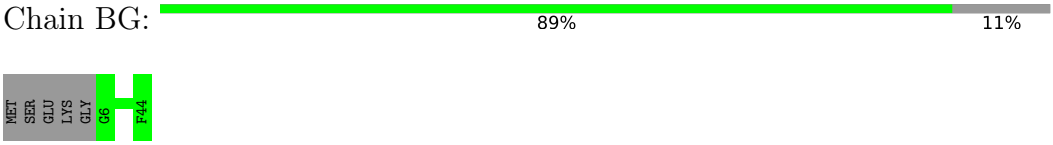
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BF:



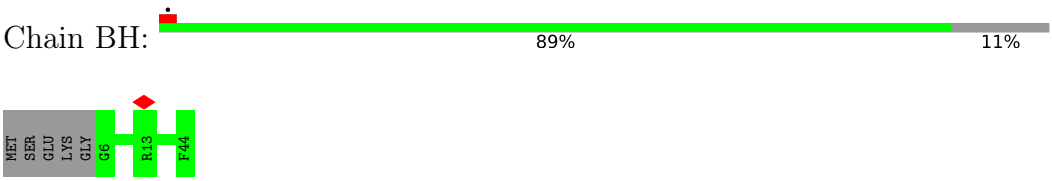
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BG:



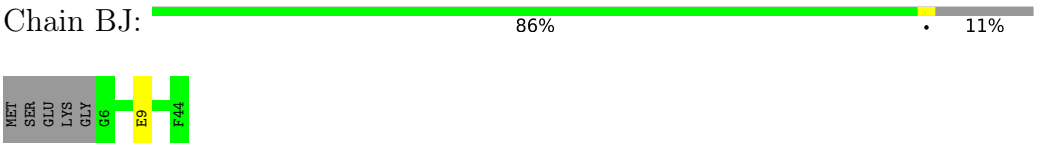
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BH:



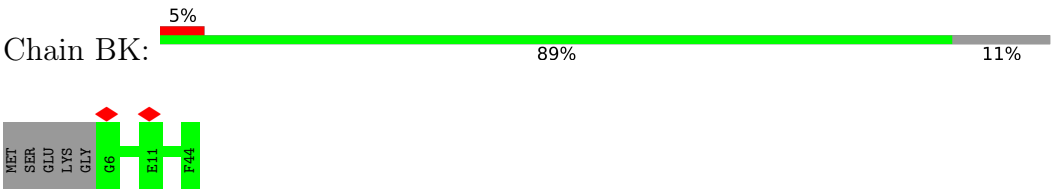
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BJ:



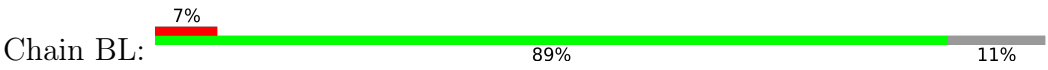
• Molecule 3: Light-harvesting protein B:885 subunit beta

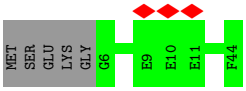
Chain BK:



• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BL:



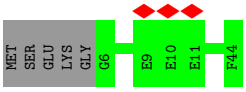


• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BM:

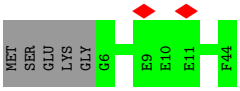
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BN:



• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BO:

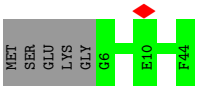


• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BP:

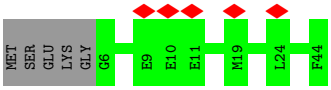
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BU:



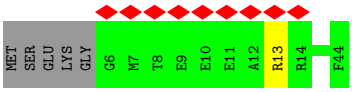
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain BX:



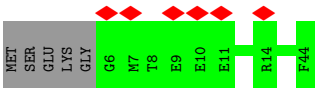
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain ba:



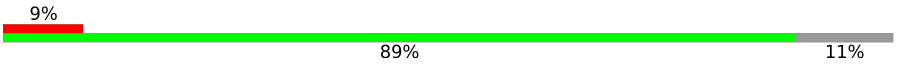
• Molecule 3: Light-harvesting protein B:885 subunit beta

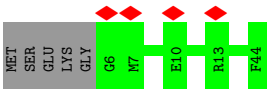
Chain bb:



• Molecule 3: Light-harvesting protein B:885 subunit beta

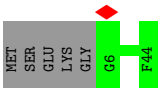
Chain bc:





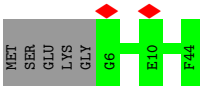
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain bd:



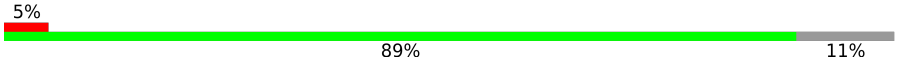
• Molecule 3: Light-harvesting protein B:885 subunit beta

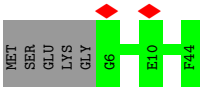
Chain be:



• Molecule 3: Light-harvesting protein B:885 subunit beta

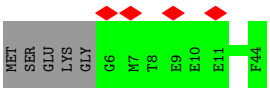
Chain bf:





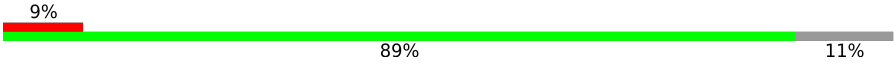
• Molecule 3: Light-harvesting protein B:885 subunit beta

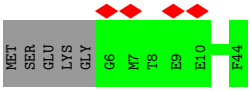
Chain bg:



• Molecule 3: Light-harvesting protein B:885 subunit beta

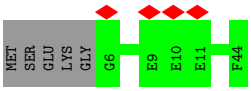
Chain bh:





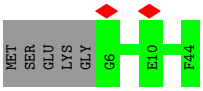
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain bi:



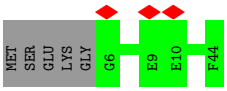
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain bj:



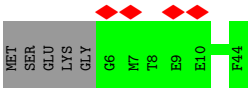
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain bk:



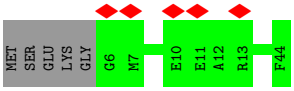
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain bl:



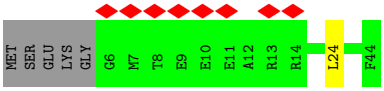
• Molecule 3: Light-harvesting protein B:885 subunit beta

Chain bm:

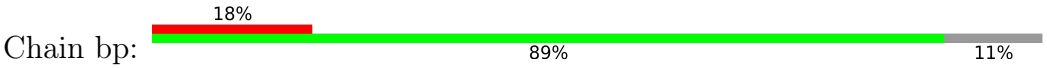


• Molecule 3: Light-harvesting protein B:885 subunit beta

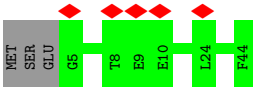
Chain bo:



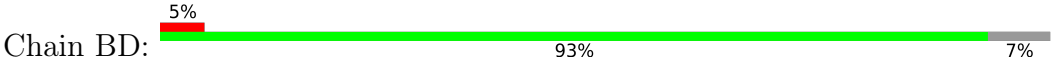
• Molecule 3: Light-harvesting protein B:885 subunit beta

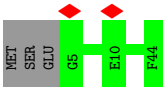


• Molecule 4: Light-harvesting protein B:885 subunit beta

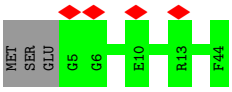


• Molecule 4: Light-harvesting protein B:885 subunit beta

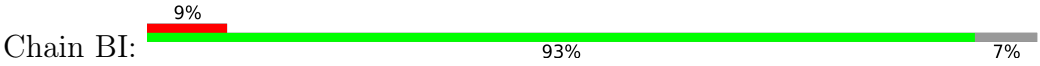


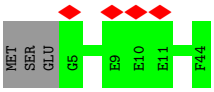


• Molecule 4: Light-harvesting protein B:885 subunit beta

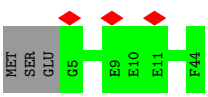


• Molecule 4: Light-harvesting protein B:885 subunit beta



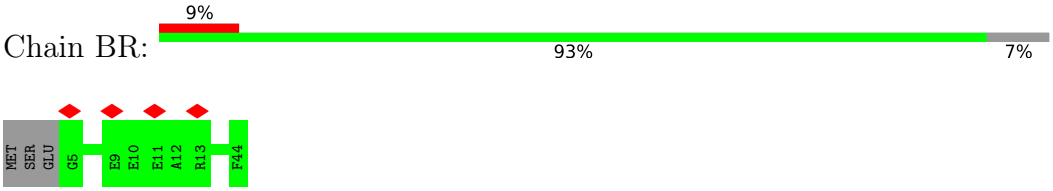


• Molecule 4: Light-harvesting protein B:885 subunit beta



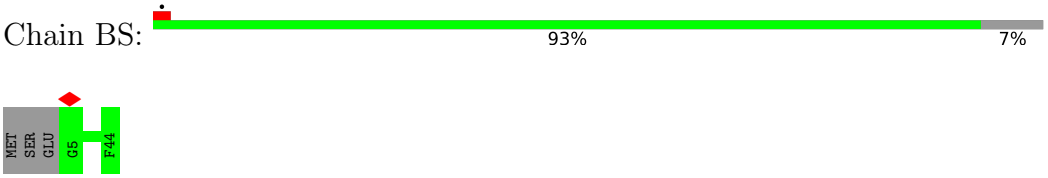
• Molecule 4: Light-harvesting protein B:885 subunit beta

Chain BR:



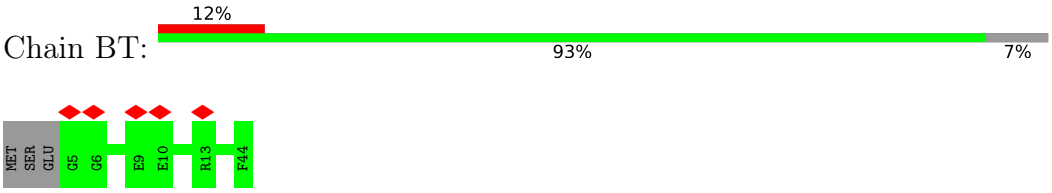
• Molecule 4: Light-harvesting protein B:885 subunit beta

Chain BS:



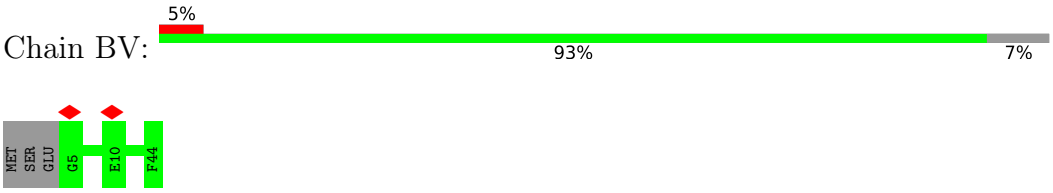
• Molecule 4: Light-harvesting protein B:885 subunit beta

Chain BT:



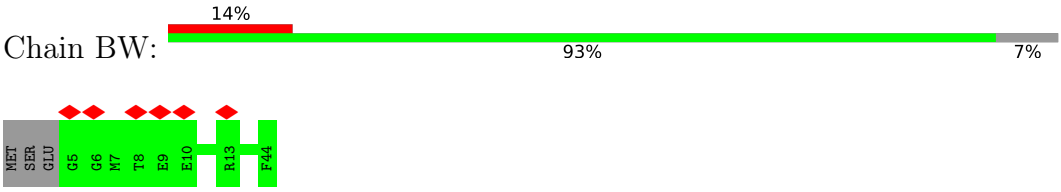
• Molecule 4: Light-harvesting protein B:885 subunit beta

Chain BV:



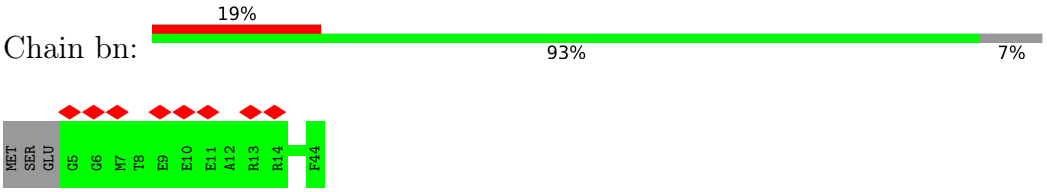
• Molecule 4: Light-harvesting protein B:885 subunit beta

Chain BW:



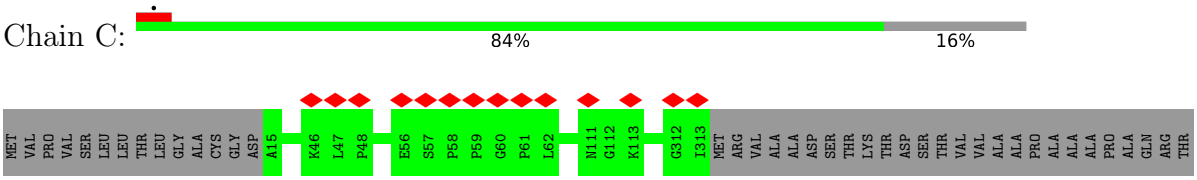
• Molecule 4: Light-harvesting protein B:885 subunit beta

Chain bn:



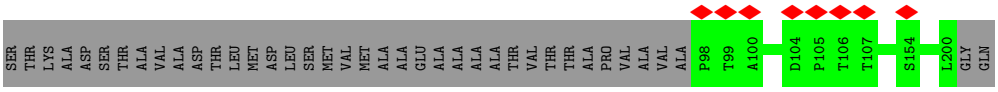
• Molecule 5: MULTIHEME_CYTC domain-containing protein

Chain C:



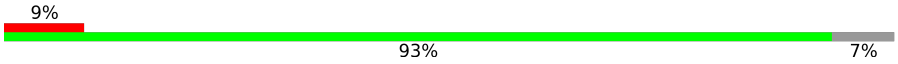
• Molecule 6: RC-S

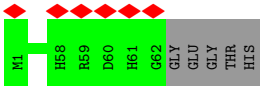
Chain C1:



• Molecule 7: PRCH domain-containing protein

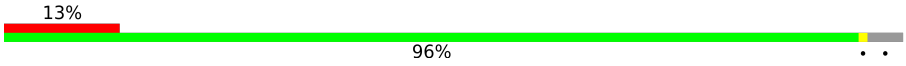
Chain H1:

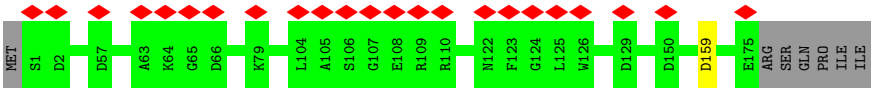




• Molecule 8: RC-Hc

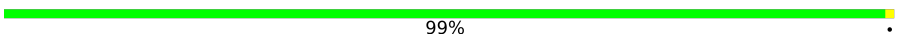
Chain H2:





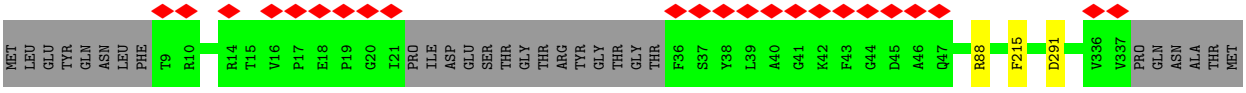
• Molecule 9: Photosynthetic reaction center L subunit

Chain L:



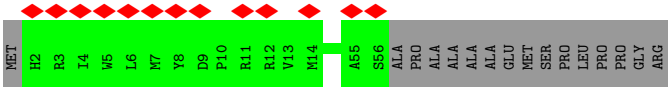
• Molecule 10: RC-M

Chain M:



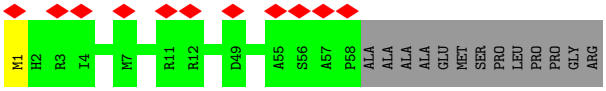
• Molecule 11: LHC domain-containing protein

Chain aa:



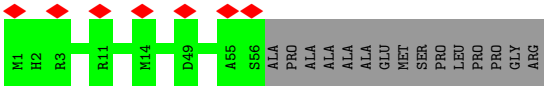
• Molecule 12: LHC domain-containing protein

Chain ab:



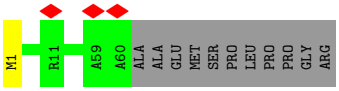
• Molecule 12: LHC domain-containing protein

Chain ac:



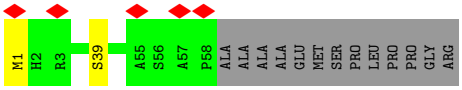
• Molecule 12: LHC domain-containing protein

Chain ad:



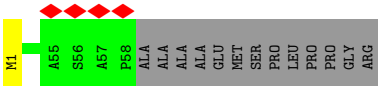
• Molecule 12: LHC domain-containing protein

Chain ae:



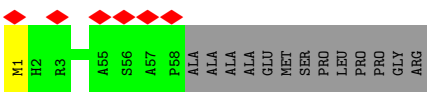
• Molecule 12: LHC domain-containing protein

Chain af:



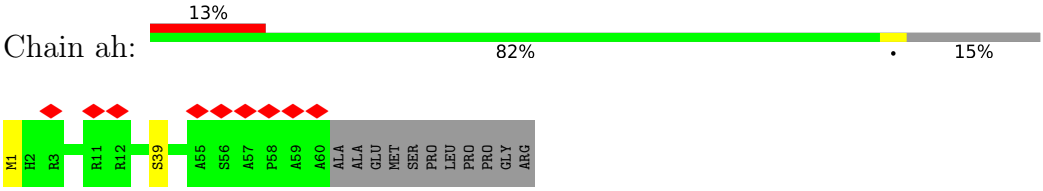
• Molecule 12: LHC domain-containing protein

Chain ag:



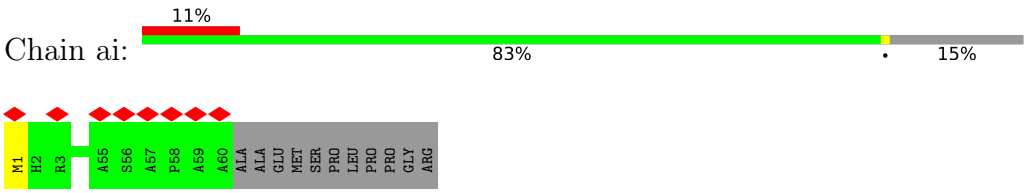
• Molecule 12: LHC domain-containing protein

Chain ah:



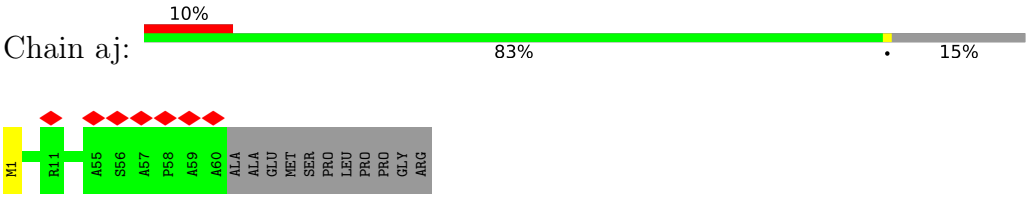
• Molecule 12: LHC domain-containing protein

Chain ai:



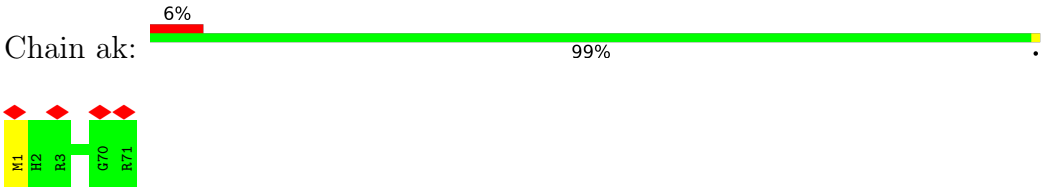
• Molecule 12: LHC domain-containing protein

Chain aj:



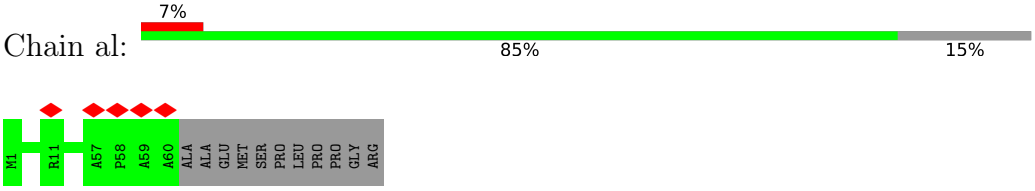
• Molecule 12: LHC domain-containing protein

Chain ak:



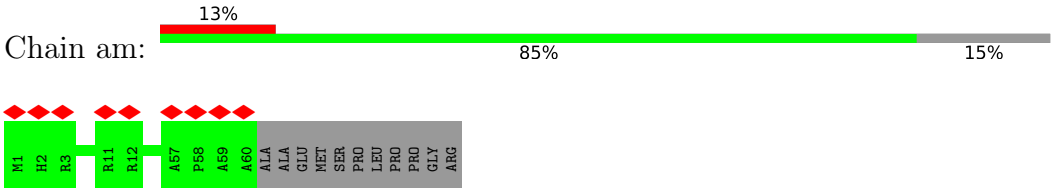
• Molecule 12: LHC domain-containing protein

Chain al:



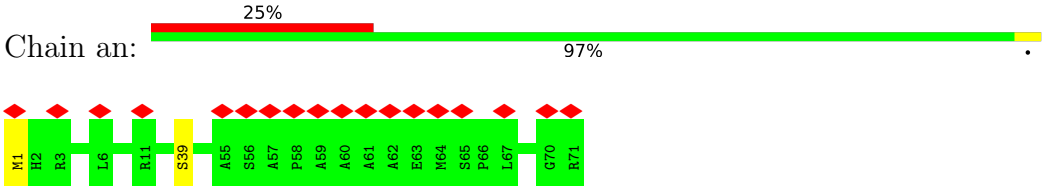
• Molecule 12: LHC domain-containing protein

Chain am:



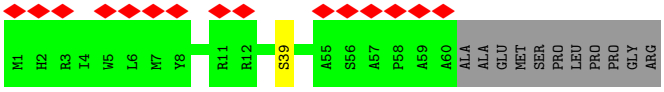
• Molecule 12: LHC domain-containing protein

Chain an:



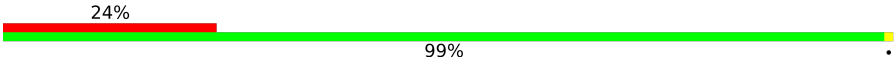
• Molecule 12: LHC domain-containing protein

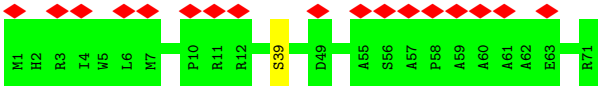
Chain ao:



• Molecule 12: LHC domain-containing protein

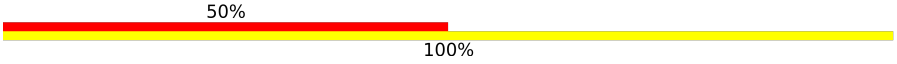
Chain ap:





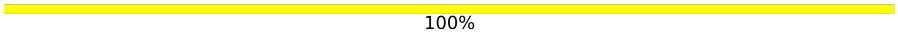
• Molecule 13: alpha-L-rhamnopyranose-(1-4)-alpha-D-mannopyranose

Chain CG:



• Molecule 13: alpha-L-rhamnopyranose-(1-4)-alpha-D-mannopyranose

Chain MG:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	103156	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	24.8	Depositor
Minimum defocus (nm)	-800	Depositor
Maximum defocus (nm)	-2400	Depositor
Magnification	120000	Depositor
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	0.192	Depositor
Minimum map value	-0.054	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.0348	Depositor
Map size (Å)	399.784, 399.784, 399.784	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.99946, 0.99946, 0.99946	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CD4, V75, LMT, CRT, BPH, BCL, V7N, 0V9, V7B, MAN, HEC, MQ8, RAM, NDG, PGW, UYH, FME, FE

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	AA	0.24	0/396	0.50	0/541
1	AB	0.23	0/396	0.50	0/541
1	AE	0.24	0/396	0.49	0/541
1	AF	0.24	0/396	0.53	0/541
1	AG	0.24	0/396	0.50	0/541
1	AH	0.24	0/396	0.54	0/541
1	AI	0.24	0/396	0.50	0/541
1	AJ	0.24	0/396	0.50	0/541
1	AK	0.24	0/396	0.51	0/541
1	AL	0.24	0/396	0.51	0/541
1	AM	0.25	0/396	0.50	0/541
1	AN	0.24	0/396	0.51	0/541
1	AO	0.24	0/396	0.52	0/541
1	AP	0.24	0/396	0.52	0/541
1	AQ	0.24	0/396	0.50	0/541
1	AR	0.24	0/396	0.49	0/541
1	AS	0.25	0/396	0.53	0/541
1	AT	0.24	0/396	0.53	0/541
1	AU	0.24	0/396	0.49	0/541
1	AV	0.24	0/396	0.50	0/541
1	AW	0.25	0/396	0.49	0/541
1	AX	0.24	0/396	0.51	0/541
2	AC	0.24	0/388	0.51	0/529
2	AD	0.24	0/388	0.51	0/529
3	BA	0.24	0/336	0.47	0/456
3	BC	0.24	0/336	0.48	0/456
3	BF	0.25	0/336	0.49	0/456
3	BG	0.24	0/336	0.50	0/456
3	BH	0.24	0/336	0.48	0/456
3	BJ	0.25	0/336	0.49	0/456
3	BK	0.24	0/336	0.49	0/456

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
3	BL	0.25	0/336	0.50	0/456
3	BM	0.25	0/336	0.50	0/456
3	BN	0.25	0/336	0.51	0/456
3	BO	0.24	0/336	0.49	0/456
3	BP	0.24	0/336	0.51	0/456
3	BU	0.23	0/336	0.50	0/456
3	BX	0.24	0/336	0.49	0/456
3	ba	0.25	0/336	0.50	0/456
3	bb	0.25	0/336	0.49	0/456
3	bc	0.26	0/336	0.51	0/456
3	bd	0.25	0/336	0.48	0/456
3	be	0.27	0/336	0.51	0/456
3	bf	0.26	0/336	0.48	0/456
3	bg	0.25	0/336	0.52	0/456
3	bh	0.24	0/336	0.47	0/456
3	bi	0.24	0/336	0.49	0/456
3	bj	0.25	0/336	0.51	0/456
3	bk	0.26	0/336	0.53	0/456
3	bl	0.25	0/336	0.50	0/456
3	bm	0.26	0/336	0.51	0/456
3	bo	0.25	0/336	0.51	0/456
3	bp	0.24	0/336	0.50	0/456
4	BB	0.26	0/340	0.51	0/461
4	BD	0.24	0/340	0.49	0/461
4	BE	0.24	0/340	0.48	0/461
4	BI	0.24	0/340	0.49	0/461
4	BQ	0.24	0/340	0.51	0/461
4	BR	0.25	0/340	0.50	0/461
4	BS	0.25	0/340	0.50	0/461
4	BT	0.25	0/340	0.51	0/461
4	BV	0.24	0/340	0.47	0/461
4	BW	0.24	0/340	0.49	0/461
4	bn	0.24	0/340	0.49	0/461
5	C	0.26	0/2392	0.55	0/3263
6	C1	0.24	0/826	0.58	0/1128
7	H1	0.25	0/531	0.53	0/717
8	H2	0.25	0/1392	0.52	0/1902
9	L	0.25	0/2252	0.50	0/3081
10	M	0.26	0/2632	0.52	0/3600
11	aa	0.25	0/444	0.53	0/605
12	ab	0.25	0/457	0.52	0/624
12	ac	0.25	0/444	0.53	0/605
12	ad	0.25	0/467	0.54	0/638

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
12	ae	0.26	0/457	0.54	0/624
12	af	0.25	0/457	0.53	0/624
12	ag	0.25	0/457	0.55	0/624
12	ah	0.25	0/467	0.53	0/638
12	ai	0.26	0/467	0.53	0/638
12	aj	0.25	0/467	0.53	0/638
12	ak	0.27	0/547	0.53	0/748
12	al	0.25	0/467	0.52	0/638
12	am	0.26	0/467	0.55	0/638
12	an	0.26	0/547	0.56	0/748
12	ao	0.25	0/467	0.53	0/638
12	ap	0.24	0/548	0.52	0/748
All	All	0.25	0/40624	0.51	0/55362

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AE	0	1
1	AK	0	1
10	M	0	1
All	All	0	3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AE	3	ARG	Sidechain
1	AK	3	ARG	Sidechain
10	M	88	ARG	Sidechain

5.2 Too-close contacts (i)

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

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	AA	47/54 (87%)	47 (100%)	0	0	100	100
1	AB	47/54 (87%)	47 (100%)	0	0	100	100
1	AE	47/54 (87%)	47 (100%)	0	0	100	100
1	AF	47/54 (87%)	47 (100%)	0	0	100	100
1	AG	47/54 (87%)	47 (100%)	0	0	100	100
1	AH	47/54 (87%)	47 (100%)	0	0	100	100
1	AI	47/54 (87%)	47 (100%)	0	0	100	100
1	AJ	47/54 (87%)	47 (100%)	0	0	100	100
1	AK	47/54 (87%)	47 (100%)	0	0	100	100
1	AL	47/54 (87%)	47 (100%)	0	0	100	100
1	AM	47/54 (87%)	47 (100%)	0	0	100	100
1	AN	47/54 (87%)	47 (100%)	0	0	100	100
1	AO	47/54 (87%)	46 (98%)	1 (2%)	0	100	100
1	AP	47/54 (87%)	47 (100%)	0	0	100	100
1	AQ	47/54 (87%)	47 (100%)	0	0	100	100
1	AR	47/54 (87%)	47 (100%)	0	0	100	100
1	AS	47/54 (87%)	47 (100%)	0	0	100	100
1	AT	47/54 (87%)	47 (100%)	0	0	100	100
1	AU	47/54 (87%)	47 (100%)	0	0	100	100
1	AV	47/54 (87%)	47 (100%)	0	0	100	100
1	AW	47/54 (87%)	46 (98%)	1 (2%)	0	100	100
1	AX	47/54 (87%)	46 (98%)	1 (2%)	0	100	100
2	AC	46/54 (85%)	46 (100%)	0	0	100	100
2	AD	46/54 (85%)	46 (100%)	0	0	100	100
3	BA	37/44 (84%)	37 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	BC	37/44 (84%)	37 (100%)	0	0	100	100
3	BF	37/44 (84%)	37 (100%)	0	0	100	100
3	BG	37/44 (84%)	37 (100%)	0	0	100	100
3	BH	37/44 (84%)	37 (100%)	0	0	100	100
3	BJ	37/44 (84%)	37 (100%)	0	0	100	100
3	BK	37/44 (84%)	37 (100%)	0	0	100	100
3	BL	37/44 (84%)	37 (100%)	0	0	100	100
3	BM	37/44 (84%)	37 (100%)	0	0	100	100
3	BN	37/44 (84%)	37 (100%)	0	0	100	100
3	BO	37/44 (84%)	37 (100%)	0	0	100	100
3	BP	37/44 (84%)	37 (100%)	0	0	100	100
3	BU	37/44 (84%)	37 (100%)	0	0	100	100
3	BX	37/44 (84%)	37 (100%)	0	0	100	100
3	ba	37/44 (84%)	37 (100%)	0	0	100	100
3	bb	37/44 (84%)	37 (100%)	0	0	100	100
3	bc	37/44 (84%)	37 (100%)	0	0	100	100
3	bd	37/44 (84%)	37 (100%)	0	0	100	100
3	be	37/44 (84%)	37 (100%)	0	0	100	100
3	bf	37/44 (84%)	37 (100%)	0	0	100	100
3	bg	37/44 (84%)	37 (100%)	0	0	100	100
3	bh	37/44 (84%)	37 (100%)	0	0	100	100
3	bi	37/44 (84%)	37 (100%)	0	0	100	100
3	bj	37/44 (84%)	37 (100%)	0	0	100	100
3	bk	37/44 (84%)	36 (97%)	1 (3%)	0	100	100
3	bl	37/44 (84%)	37 (100%)	0	0	100	100
3	bm	37/44 (84%)	37 (100%)	0	0	100	100
3	bo	37/44 (84%)	37 (100%)	0	0	100	100
3	bp	37/44 (84%)	37 (100%)	0	0	100	100
4	BB	38/43 (88%)	38 (100%)	0	0	100	100
4	BD	38/43 (88%)	38 (100%)	0	0	100	100
4	BE	38/43 (88%)	38 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	BI	38/43 (88%)	38 (100%)	0	0	100	100
4	BQ	38/43 (88%)	38 (100%)	0	0	100	100
4	BR	38/43 (88%)	38 (100%)	0	0	100	100
4	BS	38/43 (88%)	38 (100%)	0	0	100	100
4	BT	38/43 (88%)	38 (100%)	0	0	100	100
4	BV	38/43 (88%)	38 (100%)	0	0	100	100
4	BW	38/43 (88%)	38 (100%)	0	0	100	100
4	bn	38/43 (88%)	38 (100%)	0	0	100	100
5	C	297/354 (84%)	285 (96%)	12 (4%)	0	100	100
6	C1	101/202 (50%)	100 (99%)	1 (1%)	0	100	100
7	H1	60/67 (90%)	60 (100%)	0	0	100	100
8	H2	172/181 (95%)	169 (98%)	3 (2%)	0	100	100
9	L	271/274 (99%)	262 (97%)	9 (3%)	0	100	100
10	M	311/367 (85%)	298 (96%)	13 (4%)	0	100	100
11	aa	53/71 (75%)	53 (100%)	0	0	100	100
12	ab	56/71 (79%)	56 (100%)	0	0	100	100
12	ac	54/71 (76%)	53 (98%)	1 (2%)	0	100	100
12	ad	58/71 (82%)	56 (97%)	2 (3%)	0	100	100
12	ae	56/71 (79%)	55 (98%)	1 (2%)	0	100	100
12	af	56/71 (79%)	55 (98%)	1 (2%)	0	100	100
12	ag	56/71 (79%)	56 (100%)	0	0	100	100
12	ah	58/71 (82%)	57 (98%)	1 (2%)	0	100	100
12	ai	58/71 (82%)	58 (100%)	0	0	100	100
12	aj	58/71 (82%)	58 (100%)	0	0	100	100
12	ak	69/71 (97%)	67 (97%)	2 (3%)	0	100	100
12	al	58/71 (82%)	56 (97%)	2 (3%)	0	100	100
12	am	58/71 (82%)	57 (98%)	1 (2%)	0	100	100
12	an	69/71 (97%)	68 (99%)	1 (1%)	0	100	100
12	ao	58/71 (82%)	57 (98%)	1 (2%)	0	100	100
12	ap	69/71 (97%)	68 (99%)	1 (1%)	0	100	100
All	All	4773/5626 (85%)	4717 (99%)	56 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains

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	AA	38/41 (93%)	38 (100%)	0	100	100
1	AB	38/41 (93%)	38 (100%)	0	100	100
1	AE	38/41 (93%)	38 (100%)	0	100	100
1	AF	38/41 (93%)	38 (100%)	0	100	100
1	AG	38/41 (93%)	38 (100%)	0	100	100
1	AH	38/41 (93%)	38 (100%)	0	100	100
1	AI	38/41 (93%)	38 (100%)	0	100	100
1	AJ	38/41 (93%)	38 (100%)	0	100	100
1	AK	38/41 (93%)	38 (100%)	0	100	100
1	AL	38/41 (93%)	38 (100%)	0	100	100
1	AM	38/41 (93%)	38 (100%)	0	100	100
1	AN	38/41 (93%)	38 (100%)	0	100	100
1	AO	38/41 (93%)	38 (100%)	0	100	100
1	AP	38/41 (93%)	38 (100%)	0	100	100
1	AQ	38/41 (93%)	38 (100%)	0	100	100
1	AR	38/41 (93%)	38 (100%)	0	100	100
1	AS	38/41 (93%)	38 (100%)	0	100	100
1	AT	38/41 (93%)	38 (100%)	0	100	100
1	AU	38/41 (93%)	38 (100%)	0	100	100
1	AV	38/41 (93%)	38 (100%)	0	100	100
1	AW	38/41 (93%)	38 (100%)	0	100	100
1	AX	38/41 (93%)	37 (97%)	1 (3%)	41	68
2	AC	37/41 (90%)	37 (100%)	0	100	100
2	AD	37/41 (90%)	37 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	BA	31/35 (89%)	31 (100%)	0	100	100
3	BC	31/35 (89%)	31 (100%)	0	100	100
3	BF	31/35 (89%)	31 (100%)	0	100	100
3	BG	31/35 (89%)	31 (100%)	0	100	100
3	BH	31/35 (89%)	31 (100%)	0	100	100
3	BJ	31/35 (89%)	30 (97%)	1 (3%)	34	60
3	BK	31/35 (89%)	31 (100%)	0	100	100
3	BL	31/35 (89%)	31 (100%)	0	100	100
3	BM	31/35 (89%)	31 (100%)	0	100	100
3	BN	31/35 (89%)	31 (100%)	0	100	100
3	BO	31/35 (89%)	31 (100%)	0	100	100
3	BP	31/35 (89%)	31 (100%)	0	100	100
3	BU	31/35 (89%)	31 (100%)	0	100	100
3	BX	31/35 (89%)	31 (100%)	0	100	100
3	ba	31/35 (89%)	30 (97%)	1 (3%)	34	60
3	bb	31/35 (89%)	31 (100%)	0	100	100
3	bc	31/35 (89%)	31 (100%)	0	100	100
3	bd	31/35 (89%)	31 (100%)	0	100	100
3	be	31/35 (89%)	31 (100%)	0	100	100
3	bf	31/35 (89%)	31 (100%)	0	100	100
3	bg	31/35 (89%)	31 (100%)	0	100	100
3	bh	31/35 (89%)	31 (100%)	0	100	100
3	bi	31/35 (89%)	31 (100%)	0	100	100
3	bj	31/35 (89%)	31 (100%)	0	100	100
3	bk	31/35 (89%)	31 (100%)	0	100	100
3	bl	31/35 (89%)	31 (100%)	0	100	100
3	bm	31/35 (89%)	31 (100%)	0	100	100
3	bo	31/35 (89%)	30 (97%)	1 (3%)	34	60
3	bp	31/35 (89%)	31 (100%)	0	100	100
4	BB	31/34 (91%)	31 (100%)	0	100	100
4	BD	31/34 (91%)	31 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	BE	31/34 (91%)	31 (100%)	0	100	100
4	BI	31/34 (91%)	31 (100%)	0	100	100
4	BQ	31/34 (91%)	31 (100%)	0	100	100
4	BR	31/34 (91%)	31 (100%)	0	100	100
4	BS	31/34 (91%)	31 (100%)	0	100	100
4	BT	31/34 (91%)	31 (100%)	0	100	100
4	BV	31/34 (91%)	31 (100%)	0	100	100
4	BW	31/34 (91%)	31 (100%)	0	100	100
4	bn	31/34 (91%)	31 (100%)	0	100	100
5	C	245/285 (86%)	245 (100%)	0	100	100
6	C1	88/156 (56%)	88 (100%)	0	100	100
7	H1	50/53 (94%)	50 (100%)	0	100	100
8	H2	144/151 (95%)	143 (99%)	1 (1%)	81	93
9	L	215/216 (100%)	212 (99%)	3 (1%)	62	83
10	M	256/299 (86%)	254 (99%)	2 (1%)	79	91
11	aa	45/55 (82%)	45 (100%)	0	100	100
12	ab	46/54 (85%)	46 (100%)	0	100	100
12	ac	45/54 (83%)	45 (100%)	0	100	100
12	ad	46/54 (85%)	46 (100%)	0	100	100
12	ae	46/54 (85%)	45 (98%)	1 (2%)	47	73
12	af	46/54 (85%)	46 (100%)	0	100	100
12	ag	46/54 (85%)	46 (100%)	0	100	100
12	ah	46/54 (85%)	45 (98%)	1 (2%)	47	73
12	ai	46/54 (85%)	46 (100%)	0	100	100
12	aj	46/54 (85%)	46 (100%)	0	100	100
12	ak	54/54 (100%)	54 (100%)	0	100	100
12	al	46/54 (85%)	46 (100%)	0	100	100
12	am	46/54 (85%)	46 (100%)	0	100	100
12	an	54/54 (100%)	53 (98%)	1 (2%)	52	77
12	ao	46/54 (85%)	45 (98%)	1 (2%)	47	73
12	ap	54/54 (100%)	53 (98%)	1 (2%)	52	77

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	3906/4398 (89%)	3891 (100%)	15 (0%)	88 96

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AX	35	GLN
3	BJ	9	GLU
8	H2	159	ASP
9	L	247	CYS
9	L	249	VAL
9	L	272	TRP
10	M	215	PHE
10	M	291	ASP
12	ae	39	SER
12	ah	39	SER
12	an	39	SER
12	ao	39	SER
12	ap	39	SER
3	ba	13	ARG
3	bo	24	LEU

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

Mol	Chain	Res	Type
9	L	104	GLN
9	L	144	HIS
9	L	166	HIS
9	L	268	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

40 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The

Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
1	FME	AE	1	1	8,9,10	0.90	0	7,9,11	1.03	1 (14%)
1	FME	AS	1	1	8,9,10	0.93	0	7,9,11	1.13	1 (14%)
12	FME	am	1	12	8,9,10	0.91	0	7,9,11	0.96	0
1	FME	AT	1	1	8,9,10	0.92	0	7,9,11	0.98	1 (14%)
12	FME	ap	1	12	8,9,10	0.95	0	7,9,11	0.93	0
12	FME	an	1	12	8,9,10	0.94	0	7,9,11	1.17	1 (14%)
12	FME	ae	1	12	8,9,10	0.93	0	7,9,11	1.17	1 (14%)
7	FME	H1	1	7	8,9,10	0.92	0	7,9,11	0.89	0
12	FME	ag	1	12	8,9,10	0.92	0	7,9,11	1.04	1 (14%)
12	FME	ai	1	12	8,9,10	0.93	0	7,9,11	0.98	1 (14%)
12	FME	ao	1	12	8,9,10	0.92	0	7,9,11	1.01	0
1	FME	AU	1	1	8,9,10	0.92	0	7,9,11	0.99	1 (14%)
1	FME	AB	1	1	8,9,10	0.93	0	7,9,11	1.01	1 (14%)
1	FME	AG	1	1	8,9,10	0.92	0	7,9,11	1.01	0
1	FME	AI	1	1	8,9,10	0.95	0	7,9,11	0.93	0
1	FME	AA	1	1	8,9,10	0.94	0	7,9,11	0.98	1 (14%)
12	FME	ad	1	12	8,9,10	0.90	0	7,9,11	1.09	1 (14%)
1	FME	AK	1	1	8,9,10	0.91	0	7,9,11	1.05	1 (14%)
1	FME	AQ	1	1	8,9,10	0.92	0	7,9,11	1.14	1 (14%)
1	FME	AR	1	1	8,9,10	0.93	0	7,9,11	0.93	0
1	FME	AO	1	1	8,9,10	0.92	0	7,9,11	1.01	1 (14%)
1	FME	AH	1	1	8,9,10	0.93	0	7,9,11	1.06	1 (14%)
12	FME	af	1	12	8,9,10	0.93	0	7,9,11	1.08	1 (14%)
2	FME	AC	1	2	8,9,10	0.94	0	7,9,11	1.07	1 (14%)
12	FME	al	1	12	8,9,10	0.93	0	7,9,11	1.01	0
1	FME	AF	1	1	8,9,10	0.95	0	7,9,11	0.91	0
1	FME	AW	1	1	8,9,10	0.91	0	7,9,11	1.09	1 (14%)
1	FME	AJ	1	1	8,9,10	0.97	0	7,9,11	0.76	0
1	FME	AV	1	1	8,9,10	0.93	0	7,9,11	1.02	1 (14%)
12	FME	ak	1	12	8,9,10	0.95	0	7,9,11	1.09	1 (14%)
1	FME	AP	1	1	8,9,10	0.92	0	7,9,11	1.01	1 (14%)
1	FME	AL	1	1	8,9,10	0.92	0	7,9,11	1.19	1 (14%)
2	FME	AD	1	2	8,9,10	0.94	0	7,9,11	1.03	1 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
12	FME	ab	1	12	8,9,10	0.90	0	7,9,11	1.17	1 (14%)
12	FME	ac	1	12	8,9,10	0.91	0	7,9,11	0.90	0
12	FME	aj	1	12	8,9,10	0.93	0	7,9,11	1.06	1 (14%)
1	FME	AM	1	1	8,9,10	0.94	0	7,9,11	0.97	0
12	FME	ah	1	12	8,9,10	0.93	0	7,9,11	1.09	1 (14%)
1	FME	AN	1	1	8,9,10	0.94	0	7,9,11	1.05	1 (14%)
1	FME	AX	1	1	8,9,10	0.91	0	7,9,11	1.27	1 (14%)

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
1	FME	AE	1	1	-	1/7/9/11	-
1	FME	AS	1	1	-	0/7/9/11	-
12	FME	am	1	12	-	2/7/9/11	-
1	FME	AT	1	1	-	0/7/9/11	-
12	FME	ap	1	12	-	1/7/9/11	-
12	FME	an	1	12	-	1/7/9/11	-
12	FME	ae	1	12	-	1/7/9/11	-
7	FME	H1	1	7	-	0/7/9/11	-
12	FME	ag	1	12	-	0/7/9/11	-
12	FME	ai	1	12	-	0/7/9/11	-
12	FME	ao	1	12	-	1/7/9/11	-
1	FME	AU	1	1	-	1/7/9/11	-
1	FME	AB	1	1	-	1/7/9/11	-
1	FME	AG	1	1	-	0/7/9/11	-
1	FME	AI	1	1	-	1/7/9/11	-
1	FME	AA	1	1	-	1/7/9/11	-
12	FME	ad	1	12	-	0/7/9/11	-
1	FME	AK	1	1	-	0/7/9/11	-
1	FME	AQ	1	1	-	0/7/9/11	-
1	FME	AR	1	1	-	0/7/9/11	-
1	FME	AO	1	1	-	0/7/9/11	-
1	FME	AH	1	1	-	0/7/9/11	-
12	FME	af	1	12	-	2/7/9/11	-
2	FME	AC	1	2	-	0/7/9/11	-
12	FME	al	1	12	-	2/7/9/11	-
1	FME	AF	1	1	-	1/7/9/11	-
1	FME	AW	1	1	-	0/7/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	FME	AJ	1	1	-	1/7/9/11	-
1	FME	AV	1	1	-	0/7/9/11	-
12	FME	ak	1	12	-	2/7/9/11	-
1	FME	AP	1	1	-	1/7/9/11	-
1	FME	AL	1	1	-	1/7/9/11	-
2	FME	AD	1	2	-	0/7/9/11	-
12	FME	ab	1	12	-	1/7/9/11	-
12	FME	ac	1	12	-	1/7/9/11	-
12	FME	aj	1	12	-	1/7/9/11	-
1	FME	AM	1	1	-	1/7/9/11	-
12	FME	ah	1	12	-	0/7/9/11	-
1	FME	AN	1	1	-	1/7/9/11	-
1	FME	AX	1	1	-	1/7/9/11	-

There are no bond length outliers.

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AX	1	FME	C-CA-N	2.67	114.55	109.73
12	ab	1	FME	C-CA-N	2.61	114.44	109.73
1	AL	1	FME	C-CA-N	2.50	114.23	109.73
1	AQ	1	FME	C-CA-N	2.40	114.06	109.73
12	an	1	FME	C-CA-N	2.40	114.06	109.73
12	ak	1	FME	C-CA-N	2.36	113.99	109.73
1	AS	1	FME	C-CA-N	2.31	113.89	109.73
12	ah	1	FME	C-CA-N	2.28	113.85	109.73
12	ae	1	FME	C-CA-N	2.26	113.80	109.73
2	AC	1	FME	C-CA-N	2.23	113.76	109.73
12	af	1	FME	C-CA-N	2.22	113.75	109.73
1	AO	1	FME	C-CA-N	2.21	113.72	109.73
12	ad	1	FME	C-CA-N	2.20	113.71	109.73
1	AW	1	FME	C-CA-N	2.19	113.68	109.73
1	AK	1	FME	C-CA-N	2.17	113.64	109.73
2	AD	1	FME	C-CA-N	2.13	113.57	109.73
1	AH	1	FME	C-CA-N	2.11	113.55	109.73
1	AP	1	FME	C-CA-N	2.11	113.53	109.73
12	ai	1	FME	C-CA-N	2.10	113.52	109.73
1	AA	1	FME	C-CA-N	2.09	113.50	109.73
1	AN	1	FME	C-CA-N	2.08	113.49	109.73
12	aj	1	FME	C-CA-N	2.08	113.49	109.73
1	AE	1	FME	C-CA-N	2.08	113.49	109.73
1	AB	1	FME	C-CA-N	2.08	113.48	109.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	ag	1	FME	C-CA-N	2.08	113.48	109.73
1	AV	1	FME	C-CA-N	2.07	113.47	109.73
1	AT	1	FME	C-CA-N	2.03	113.40	109.73
1	AU	1	FME	C-CA-N	2.00	113.34	109.73

There are no chirality outliers.

All (27) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
12	ab	1	FME	O-C-CA-CB
12	ac	1	FME	O-C-CA-CB
12	af	1	FME	O-C-CA-CB
12	ak	1	FME	O-C-CA-CB
12	am	1	FME	CB-CA-N-CN
12	an	1	FME	O-C-CA-CB
1	AA	1	FME	O-C-CA-CB
1	AF	1	FME	O-C-CA-CB
1	AI	1	FME	O-C-CA-CB
1	AJ	1	FME	O-C-CA-CB
1	AU	1	FME	O-C-CA-CB
12	ae	1	FME	CA-CB-CG-SD
12	af	1	FME	N-CA-CB-CG
12	am	1	FME	N-CA-CB-CG
1	AL	1	FME	N-CA-CB-CG
1	AM	1	FME	N-CA-CB-CG
1	AX	1	FME	N-CA-CB-CG
1	AN	1	FME	N-CA-CB-CG
12	ao	1	FME	N-CA-CB-CG
1	AB	1	FME	N-CA-CB-CG
1	AP	1	FME	CB-CG-SD-CE
12	al	1	FME	N-CA-CB-CG
1	AE	1	FME	CB-CG-SD-CE
12	aj	1	FME	C-CA-CB-CG
12	ak	1	FME	C-CA-CB-CG
12	al	1	FME	CA-CB-CG-SD
12	ap	1	FME	CB-CA-N-CN

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

4 monosaccharides are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
13	MAN	CG	1	5,13,18	11,11,12	0.82	1 (9%)	15,15,17	1.02	0
13	RAM	CG	2	13	10,10,11	1.71	2 (20%)	14,14,16	0.98	0
13	MAN	MG	1	13,18,10	11,11,12	0.72	0	15,15,17	1.06	1 (6%)
13	RAM	MG	2	13	10,10,11	1.50	2 (20%)	14,14,16	1.35	3 (21%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	MAN	CG	1	5,13,18	-	1/2/19/22	0/1/1/1
13	RAM	CG	2	13	-	-	0/1/1/1
13	MAN	MG	1	13,18,10	-	0/2/19/22	0/1/1/1
13	RAM	MG	2	13	-	-	0/1/1/1

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	CG	2	RAM	O5-C1	4.19	1.50	1.43
13	MG	2	RAM	O5-C1	3.45	1.49	1.43
13	CG	2	RAM	C2-C3	-2.28	1.49	1.52
13	CG	1	MAN	O5-C1	-2.16	1.40	1.43
13	MG	2	RAM	C2-C3	-2.09	1.49	1.52

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	MG	2	RAM	C1-C2-C3	2.71	113.00	109.67
13	MG	2	RAM	C6-C5-C4	-2.59	108.29	113.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	MG	1	MAN	C1-O5-C5	2.30	115.31	112.19
13	MG	2	RAM	C1-O5-C5	-2.21	107.77	112.78

There are no chirality outliers.

All (1) torsion outliers are listed below:

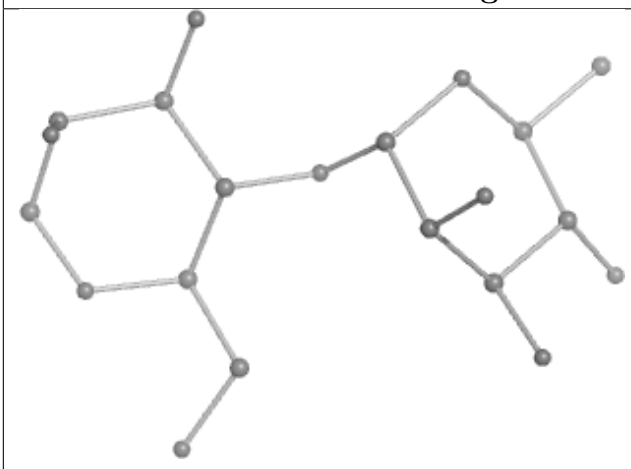
Mol	Chain	Res	Type	Atoms
13	CG	1	MAN	O5-C5-C6-O6

There are no ring outliers.

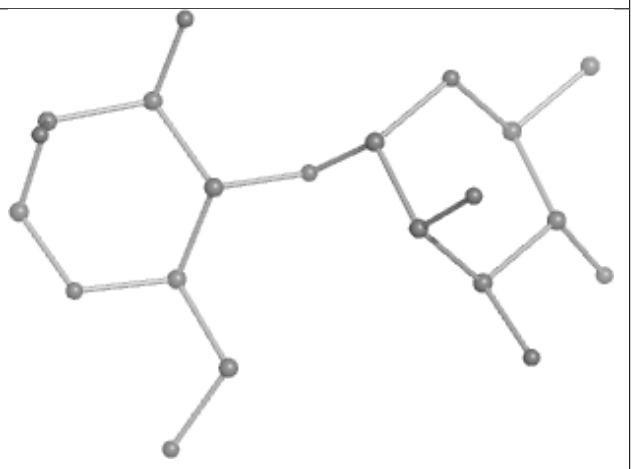
No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

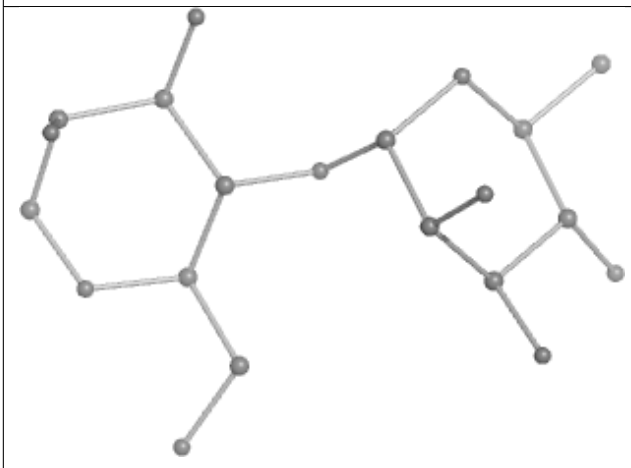
Oligosaccharide Chain CG



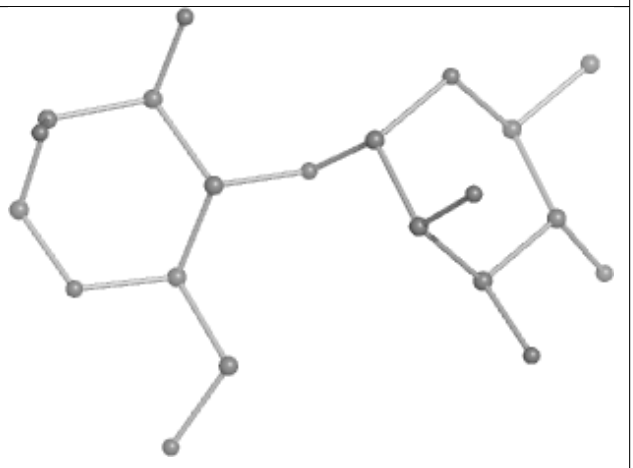
Bond lengths



Bond angles

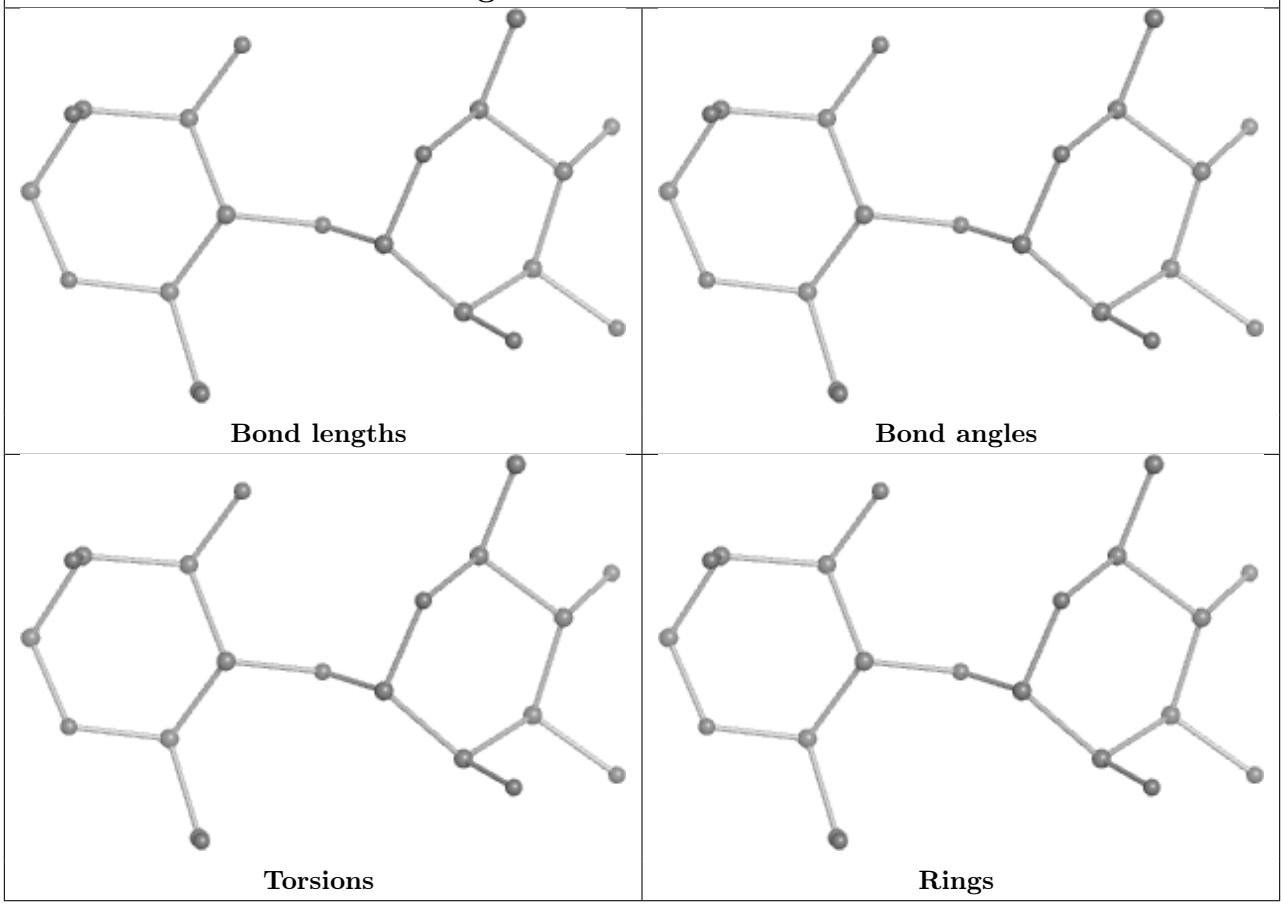


Torsions



Rings

Oligosaccharide Chain MG



5.6 Ligand geometry (i)

Of 313 ligands modelled in this entry, 1 is monoatomic - leaving 312 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	$\#\|Z\| > 2$
15	LMT	BN	104	-	36,36,36	1.09	5 (13%)	47,47,47	0.82	0
14	BCL	AV	101	29	64,74,74	1.27	5 (7%)	78,115,115	1.52	11 (14%)
16	V7N	bh	102	-	43,44,44	2.04	10 (23%)	44,54,54	1.56	8 (18%)
14	BCL	AB	1001	-	64,74,74	1.27	6 (9%)	78,115,115	1.54	11 (14%)
15	LMT	BJ	1004	-	36,36,36	1.09	5 (13%)	47,47,47	0.84	1 (2%)
15	LMT	BH	1003	-	36,36,36	1.09	5 (13%)	47,47,47	0.95	2 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
15	LMT	BD	103	-	36,36,36	1.07	5 (13%)	47,47,47	1.06	2 (4%)
15	LMT	BW	1005	-	36,36,36	1.13	5 (13%)	47,47,47	0.99	1 (2%)
16	V7N	BU	1001	-	43,44,44	2.12	9 (20%)	44,54,54	1.67	6 (13%)
15	LMT	AH	104	-	36,36,36	1.08	5 (13%)	47,47,47	1.08	3 (6%)
15	LMT	L	1005	-	36,36,36	1.05	5 (13%)	47,47,47	0.89	0
15	LMT	bc	104	-	36,36,36	1.11	4 (11%)	47,47,47	0.96	3 (6%)
14	BCL	AC	101	-	64,74,74	1.33	6 (9%)	78,115,115	1.54	13 (16%)
16	V7N	BI	1001	-	43,44,44	2.03	9 (20%)	44,54,54	1.49	9 (20%)
14	BCL	BO	1004	-	64,74,74	1.26	6 (9%)	78,115,115	1.55	12 (15%)
15	LMT	bh	101	-	36,36,36	1.10	5 (13%)	47,47,47	0.92	1 (2%)
16	V7N	bg	101	-	43,44,44	2.06	11 (25%)	44,54,54	1.66	8 (18%)
19	NDG	C1	1002	18	14,14,15	0.63	0	17,19,21	0.95	1 (5%)
15	LMT	BG	1002	-	36,36,36	1.06	5 (13%)	47,47,47	1.11	5 (10%)
20	0V9	bo	104	-	44,44,46	0.74	1 (2%)	47,49,51	0.90	2 (4%)
16	V7N	BE	101	-	43,44,44	2.05	10 (23%)	44,54,54	1.52	9 (20%)
14	BCL	ah	1001	-	64,74,74	1.30	7 (10%)	78,115,115	1.50	11 (14%)
15	LMT	BI	1002	-	36,36,36	1.08	5 (13%)	47,47,47	0.96	2 (4%)
14	BCL	AP	102	-	64,74,74	1.27	6 (9%)	78,115,115	1.49	10 (12%)
15	LMT	BL	1005	-	36,36,36	1.09	5 (13%)	47,47,47	0.94	1 (2%)
14	BCL	BF	102	-	64,74,74	1.25	6 (9%)	78,115,115	2.09	13 (16%)
20	0V9	be	102	-	44,44,46	0.75	1 (2%)	47,49,51	0.91	2 (4%)
14	BCL	AW	101	-	64,74,74	1.26	6 (9%)	78,115,115	1.47	9 (11%)
15	LMT	BQ	1005	-	36,36,36	1.09	4 (11%)	47,47,47	0.87	1 (2%)
15	LMT	BS	1005	-	36,36,36	1.09	5 (13%)	47,47,47	0.96	3 (6%)
18	V75	C	405	13,19	18,18,18	1.59	4 (22%)	21,25,25	1.70	3 (14%)
15	LMT	BK	1002	-	36,36,36	1.10	5 (13%)	47,47,47	1.00	3 (6%)
18	V75	M	409	13,19	18,18,18	1.63	5 (27%)	21,25,25	1.69	2 (9%)
16	V7N	BO	1001	-	43,44,44	2.08	9 (20%)	44,54,54	1.63	11 (25%)
17	HEC	C	401	5	32,50,50	1.96	3 (9%)	24,82,82	1.91	5 (20%)
14	BCL	ak	1001	-	64,74,74	1.27	6 (9%)	78,115,115	1.48	9 (11%)
16	V7N	BX	1001	-	43,44,44	2.01	9 (20%)	44,54,54	1.61	9 (20%)
16	V7N	BB	101	-	43,44,44	2.01	9 (20%)	44,54,54	1.59	10 (22%)
14	BCL	BW	1003	-	64,74,74	1.27	6 (9%)	78,115,115	1.53	12 (15%)
15	LMT	bh	104	-	36,36,36	1.09	5 (13%)	47,47,47	0.93	2 (4%)
15	LMT	BK	1005	-	36,36,36	1.09	5 (13%)	47,47,47	0.98	2 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
16	V7N	BV	1001	-	43,44,44	2.02	9 (20%)	44,54,54	1.53	9 (20%)
15	LMT	bd	103	-	36,36,36	1.11	5 (13%)	47,47,47	0.87	2 (4%)
15	LMT	BK	1003	-	36,36,36	1.08	4 (11%)	47,47,47	1.10	4 (8%)
14	BCL	bn	103	-	64,74,74	1.27	6 (9%)	78,115,115	1.44	10 (12%)
14	BCL	bl	104	-	64,74,74	1.27	6 (9%)	78,115,115	1.44	11 (14%)
15	LMT	bg	103	-	36,36,36	1.06	4 (11%)	47,47,47	0.91	2 (4%)
16	V7N	bd	101	-	43,44,44	2.08	11 (25%)	44,54,54	1.51	9 (20%)
15	LMT	BO	1003	-	36,36,36	1.10	4 (11%)	47,47,47	0.83	0
14	BCL	BH	1005	-	64,74,74	1.25	5 (7%)	78,115,115	1.53	11 (14%)
15	LMT	BA	102	-	36,36,36	1.07	4 (11%)	47,47,47	0.93	1 (2%)
16	V7N	be	101	-	43,44,44	2.02	10 (23%)	44,54,54	1.66	8 (18%)
14	BCL	AB	1002	29	64,74,74	1.25	5 (7%)	78,115,115	1.59	10 (12%)
14	BCL	BX	1002	-	64,74,74	1.26	5 (7%)	78,115,115	1.57	13 (16%)
20	0V9	bg	102	-	44,44,46	0.76	1 (2%)	47,49,51	1.08	3 (6%)
14	BCL	BR	1004	-	64,74,74	1.25	5 (7%)	78,115,115	1.50	10 (12%)
14	BCL	AH	103	-	64,74,74	1.26	6 (9%)	78,115,115	1.49	9 (11%)
23	MQ8	L	1001	-	54,54,54	0.60	0	66,69,69	0.87	1 (1%)
15	LMT	bl	101	-	36,36,36	1.08	5 (13%)	47,47,47	1.02	3 (6%)
15	LMT	M	403	-	36,36,36	1.10	5 (13%)	47,47,47	0.88	2 (4%)
20	0V9	bc	103	-	44,44,46	0.74	1 (2%)	47,49,51	0.94	3 (6%)
20	0V9	bl	103	-	44,44,46	0.75	1 (2%)	47,49,51	0.90	3 (6%)
20	0V9	bn	104	-	44,44,46	0.76	1 (2%)	47,49,51	0.88	2 (4%)
20	0V9	bp	103	-	44,44,46	0.74	1 (2%)	47,49,51	0.91	3 (6%)
23	MQ8	ao	101	-	54,54,54	0.60	0	66,69,69	1.03	2 (3%)
16	V7N	BD	101	-	43,44,44	2.02	9 (20%)	44,54,54	1.50	9 (20%)
14	BCL	BP	1005	-	64,74,74	1.25	5 (7%)	78,115,115	1.47	11 (14%)
15	LMT	BG	1003	-	36,36,36	1.08	5 (13%)	47,47,47	0.92	1 (2%)
21	CD4	H1	104	-	83,83,83	0.49	0	89,95,95	1.05	4 (4%)
16	V7N	BH	1001	-	43,44,44	2.04	10 (23%)	44,54,54	1.66	11 (25%)
15	LMT	BV	1004	-	36,36,36	1.08	5 (13%)	47,47,47	0.94	1 (2%)
16	V7N	bo	102	-	43,44,44	2.10	11 (25%)	44,54,54	1.47	9 (20%)
16	V7N	AO	1001	-	43,44,44	2.01	10 (23%)	44,54,54	1.68	10 (22%)
14	BCL	L	1010	-	64,74,74	1.26	6 (9%)	78,115,115	1.43	10 (12%)
15	LMT	bo	105	-	36,36,36	1.12	5 (13%)	47,47,47	1.01	3 (6%)
14	BCL	bh	105	-	64,74,74	1.27	5 (7%)	78,115,115	1.50	11 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	BCL	AA	1001	-	64,74,74	1.27	7 (10%)	78,115,115	1.46	9 (11%)
14	BCL	ad	1001	-	64,74,74	1.30	6 (9%)	78,115,115	1.48	9 (11%)
15	LMT	BB	102	-	36,36,36	1.09	4 (11%)	47,47,47	0.93	2 (4%)
17	HEC	C	402	5	32,50,50	1.99	3 (9%)	24,82,82	2.04	6 (25%)
14	BCL	AI	103	-	64,74,74	1.28	6 (9%)	78,115,115	1.64	13 (16%)
14	BCL	AQ	102	-	64,74,74	1.26	7 (10%)	78,115,115	1.46	9 (11%)
15	LMT	BM	1003	-	36,36,36	1.08	5 (13%)	47,47,47	0.85	0
14	BCL	AO	1002	-	64,74,74	1.26	6 (9%)	78,115,115	1.41	9 (11%)
21	CD4	H1	102	-	83,83,83	0.46	0	89,95,95	1.01	5 (5%)
15	LMT	BB	105	-	36,36,36	1.08	5 (13%)	47,47,47	0.92	1 (2%)
15	LMT	L	1011	-	36,36,36	1.08	5 (13%)	47,47,47	0.93	2 (4%)
20	0V9	C1	1001	-	44,44,46	0.74	1 (2%)	47,49,51	0.81	2 (4%)
15	LMT	AC	104	-	36,36,36	1.09	5 (13%)	47,47,47	0.96	2 (4%)
15	LMT	AN	103	-	36,36,36	1.10	5 (13%)	47,47,47	0.94	2 (4%)
16	V7N	BG	1001	-	43,44,44	2.00	10 (23%)	44,54,54	1.59	10 (22%)
21	CD4	ae	101	-	83,83,83	0.47	0	89,95,95	1.06	3 (3%)
14	BCL	BG	1004	-	64,74,74	1.26	6 (9%)	78,115,115	1.46	10 (12%)
21	CD4	M	402	-	83,83,83	0.48	0	89,95,95	1.07	5 (5%)
14	BCL	AK	101	29	64,74,74	1.31	6 (9%)	78,115,115	1.53	12 (15%)
15	LMT	BR	1002	-	36,36,36	1.08	5 (13%)	47,47,47	0.95	3 (6%)
14	BCL	BU	1004	-	64,74,74	1.25	6 (9%)	78,115,115	1.49	11 (14%)
14	BCL	BL	1003	-	64,74,74	1.24	5 (7%)	78,115,115	1.52	11 (14%)
19	NDG	C	406	18	14,14,15	0.66	0	17,19,21	0.90	1 (5%)
15	LMT	BF	101	-	36,36,36	1.09	5 (13%)	47,47,47	0.90	2 (4%)
15	LMT	BI	1005	-	36,36,36	1.09	5 (13%)	47,47,47	0.82	0
14	BCL	bb	104	-	64,74,74	1.25	5 (7%)	78,115,115	1.43	10 (12%)
14	BCL	bp	102	-	64,74,74	1.27	6 (9%)	78,115,115	1.52	11 (14%)
15	LMT	BV	1006	-	36,36,36	1.08	5 (13%)	47,47,47	0.82	0
20	0V9	H1	101	-	44,44,46	0.76	1 (2%)	47,49,51	0.79	3 (6%)
20	0V9	be	103	-	44,44,46	0.75	1 (2%)	47,49,51	0.87	2 (4%)
14	BCL	BB	103	-	64,74,74	1.25	5 (7%)	78,115,115	1.52	10 (12%)
14	BCL	AE	1001	-	64,74,74	1.27	7 (10%)	78,115,115	1.45	9 (11%)
15	LMT	BV	1003	-	36,36,36	1.08	5 (13%)	47,47,47	0.85	0
15	LMT	BC	106	-	36,36,36	1.08	4 (11%)	47,47,47	0.81	1 (2%)
16	V7N	bf	101	-	43,44,44	2.06	11 (25%)	44,54,54	1.55	8 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
20	0V9	bk	104	-	44,44,46	0.74	1 (2%)	47,49,51	0.86	1 (2%)
15	LMT	BF	103	-	36,36,36	1.08	5 (13%)	47,47,47	0.94	1 (2%)
14	BCL	BE	104	-	64,74,74	1.27	5 (7%)	78,115,115	1.53	13 (16%)
14	BCL	AS	103	-	64,74,74	1.25	6 (9%)	78,115,115	1.46	9 (11%)
15	LMT	L	1003	-	36,36,36	1.11	5 (13%)	47,47,47	0.80	0
16	V7N	BM	1001	-	43,44,44	2.00	9 (20%)	44,54,54	1.68	11 (25%)
15	LMT	BI	1004	-	36,36,36	1.09	5 (13%)	47,47,47	0.91	2 (4%)
15	LMT	BS	1006	-	36,36,36	1.06	5 (13%)	47,47,47	0.91	2 (4%)
15	LMT	BA	104	-	36,36,36	1.08	5 (13%)	47,47,47	0.90	2 (4%)
20	0V9	bh	103	-	44,44,46	0.76	1 (2%)	47,49,51	0.95	3 (6%)
16	V7N	BW	1001	-	43,44,44	2.03	9 (20%)	44,54,54	1.50	9 (20%)
15	LMT	BU	1002	-	36,36,36	1.08	4 (11%)	47,47,47	0.92	1 (2%)
16	V7N	AS	105	-	43,44,44	2.04	9 (20%)	44,54,54	1.71	7 (15%)
14	BCL	AG	102	-	64,74,74	1.26	6 (9%)	78,115,115	1.44	9 (11%)
16	V7N	bk	101	-	43,44,44	2.05	10 (23%)	44,54,54	1.50	8 (18%)
15	LMT	BJ	1003	-	36,36,36	1.09	5 (13%)	47,47,47	0.88	1 (2%)
14	BCL	AR	101	-	64,74,74	1.26	6 (9%)	78,115,115	1.46	9 (11%)
15	LMT	BN	105	-	36,36,36	1.07	5 (13%)	47,47,47	0.89	1 (2%)
14	BCL	bg	105	-	64,74,74	1.25	5 (7%)	78,115,115	1.42	11 (14%)
14	BCL	be	105	-	64,74,74	1.28	5 (7%)	78,115,115	1.45	9 (11%)
23	MQ8	M	407	-	54,54,54	0.64	0	66,69,69	0.93	4 (6%)
21	CD4	aj	102	-	83,83,83	0.50	0	89,95,95	1.21	8 (8%)
14	BCL	am	1001	-	64,74,74	1.34	8 (12%)	78,115,115	1.88	12 (15%)
14	BCL	BI	1003	-	64,74,74	1.49	8 (12%)	78,115,115	1.92	14 (17%)
15	LMT	AI	101	-	36,36,36	1.08	4 (11%)	47,47,47	1.12	3 (6%)
14	BCL	BQ	1003	-	64,74,74	1.26	5 (7%)	78,115,115	1.48	10 (12%)
16	V7N	bj	101	-	43,44,44	2.04	9 (20%)	44,54,54	1.62	10 (22%)
15	LMT	BL	1004	-	36,36,36	1.07	4 (11%)	47,47,47	0.93	3 (6%)
14	BCL	BC	104	-	64,74,74	1.26	6 (9%)	78,115,115	1.59	12 (15%)
15	LMT	bn	105	-	36,36,36	1.11	5 (13%)	47,47,47	0.98	2 (4%)
14	BCL	AC	103	29	64,74,74	1.29	6 (9%)	78,115,115	1.49	11 (14%)
14	BCL	AC	102	-	64,74,74	1.27	7 (10%)	78,115,115	1.44	9 (11%)
15	LMT	L	1007	-	36,36,36	1.10	5 (13%)	47,47,47	0.83	1 (2%)
14	BCL	AV	103	29	64,74,74	1.31	6 (9%)	78,115,115	1.53	10 (12%)
15	LMT	AP	101	-	36,36,36	1.08	5 (13%)	47,47,47	1.09	4 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	BCL	bk	102	-	64,74,74	1.27	5 (7%)	78,115,115	1.47	10 (12%)
15	LMT	AU	101	-	36,36,36	1.08	5 (13%)	47,47,47	0.84	0
15	LMT	BD	104	-	36,36,36	1.10	5 (13%)	47,47,47	0.87	1 (2%)
14	BCL	bj	103	-	64,74,74	1.27	5 (7%)	78,115,115	1.47	11 (14%)
15	LMT	AD	103	-	36,36,36	1.09	5 (13%)	47,47,47	0.97	2 (4%)
28	UYH	ai	102	-	55,55,55	2.08	14 (25%)	63,63,63	0.99	2 (3%)
14	BCL	BA	103	-	64,74,74	1.26	5 (7%)	78,115,115	1.68	11 (14%)
16	V7N	BR	1001	-	43,44,44	2.05	10 (23%)	44,54,54	1.65	10 (22%)
15	LMT	BX	1004	-	36,36,36	1.08	5 (13%)	47,47,47	0.90	2 (4%)
15	LMT	BS	1004	-	36,36,36	1.07	5 (13%)	47,47,47	0.91	2 (4%)
20	0V9	bg	104	-	44,44,46	0.74	1 (2%)	47,49,51	0.86	3 (6%)
15	LMT	BC	103	-	36,36,36	1.08	5 (13%)	47,47,47	0.85	1 (2%)
15	LMT	BH	1004	-	36,36,36	1.11	5 (13%)	47,47,47	0.88	0
14	BCL	M	405	-	64,74,74	1.25	6 (9%)	78,115,115	1.51	10 (12%)
24	V7B	L	1006	-	59,59,59	0.89	3 (5%)	75,75,75	1.04	5 (6%)
14	BCL	BD	105	-	64,74,74	1.25	6 (9%)	78,115,115	1.47	10 (12%)
15	LMT	BN	101	-	36,36,36	1.08	5 (13%)	47,47,47	0.89	1 (2%)
25	BPH	M	406	-	51,70,70	0.84	1 (1%)	52,101,101	1.02	4 (7%)
14	BCL	AP	103	29	64,74,74	1.30	6 (9%)	78,115,115	1.51	10 (12%)
14	BCL	ac	1001	-	64,74,74	1.25	6 (9%)	78,115,115	1.50	9 (11%)
14	BCL	aa	1001	-	64,74,74	1.30	7 (10%)	78,115,115	1.50	10 (12%)
15	LMT	AF	1002	-	36,36,36	1.10	4 (11%)	47,47,47	0.85	0
15	LMT	BV	1002	-	36,36,36	1.10	5 (13%)	47,47,47	0.88	2 (4%)
16	V7N	bp	101	-	43,44,44	2.09	11 (25%)	44,54,54	1.53	9 (20%)
14	BCL	AN	101	-	64,74,74	1.30	6 (9%)	78,115,115	1.49	10 (12%)
22	PGW	H1	103	-	50,50,50	0.46	0	53,56,56	1.01	3 (5%)
15	LMT	bm	103	-	36,36,36	1.06	4 (11%)	47,47,47	0.95	3 (6%)
15	LMT	AG	103	-	36,36,36	1.09	5 (13%)	47,47,47	0.86	1 (2%)
14	BCL	AM	101	-	64,74,74	1.26	6 (9%)	78,115,115	1.45	9 (11%)
14	BCL	af	101	-	64,74,74	1.28	6 (9%)	78,115,115	1.47	10 (12%)
15	LMT	be	104	-	36,36,36	1.09	5 (13%)	47,47,47	0.94	2 (4%)
15	LMT	BA	105	-	36,36,36	1.09	5 (13%)	47,47,47	0.86	1 (2%)
14	BCL	BJ	1002	-	64,74,74	1.24	5 (7%)	78,115,115	1.50	10 (12%)
20	0V9	aj	101	-	44,44,46	0.76	1 (2%)	47,49,51	0.82	1 (2%)
14	BCL	AK	102	-	64,74,74	1.27	7 (10%)	78,115,115	1.44	9 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
15	LMT	BN	102	-	36,36,36	1.08	5 (13%)	47,47,47	0.99	2 (4%)
14	BCL	bf	103	-	64,74,74	1.28	5 (7%)	78,115,115	1.48	12 (15%)
15	LMT	AS	101	-	36,36,36	1.09	5 (13%)	47,47,47	0.95	2 (4%)
14	BCL	AL	101	-	64,74,74	1.33	5 (7%)	78,115,115	1.82	14 (17%)
14	BCL	bc	102	-	64,74,74	1.31	5 (7%)	78,115,115	1.56	13 (16%)
14	BCL	bi	104	-	64,74,74	1.26	5 (7%)	78,115,115	1.46	11 (14%)
15	LMT	BW	1004	-	36,36,36	1.08	5 (13%)	47,47,47	0.89	1 (2%)
14	BCL	AJ	102	29	64,74,74	1.30	5 (7%)	78,115,115	1.56	14 (17%)
14	BCL	AF	1001	-	64,74,74	1.27	7 (10%)	78,115,115	1.48	9 (11%)
20	0V9	bk	103	-	44,44,46	0.77	1 (2%)	47,49,51	0.76	2 (4%)
14	BCL	AS	102	29	64,74,74	1.28	5 (7%)	78,115,115	1.50	11 (14%)
15	LMT	BW	1002	-	36,36,36	1.09	5 (13%)	47,47,47	0.90	1 (2%)
16	V7N	bb	101	-	43,44,44	2.06	10 (23%)	44,54,54	1.64	8 (18%)
14	BCL	AG	101	29	64,74,74	1.28	6 (9%)	78,115,115	1.71	14 (17%)
15	LMT	BG	1005	-	36,36,36	1.07	4 (11%)	47,47,47	0.85	0
16	V7N	BS	1001	-	43,44,44	2.03	9 (20%)	44,54,54	1.53	9 (20%)
15	LMT	AE	1002	-	36,36,36	1.08	4 (11%)	47,47,47	1.03	4 (8%)
14	BCL	BS	1003	-	64,74,74	1.26	5 (7%)	78,115,115	1.56	12 (15%)
14	BCL	ai	101	-	64,74,74	1.25	5 (7%)	78,115,115	1.63	11 (14%)
14	BCL	BT	103	-	64,74,74	1.26	5 (7%)	78,115,115	1.55	12 (15%)
15	LMT	BM	1004	-	36,36,36	1.08	4 (11%)	47,47,47	0.87	2 (4%)
15	LMT	BQ	1002	-	36,36,36	1.10	4 (11%)	47,47,47	0.86	2 (4%)
14	BCL	BN	103	-	64,74,74	1.42	7 (10%)	78,115,115	1.85	13 (16%)
15	LMT	BS	1002	-	36,36,36	1.08	4 (11%)	47,47,47	0.91	2 (4%)
15	LMT	BT	101	-	36,36,36	1.09	5 (13%)	47,47,47	0.86	2 (4%)
14	BCL	AU	103	-	64,74,74	1.27	6 (9%)	78,115,115	1.55	12 (15%)
16	V7N	BK	1001	-	43,44,44	2.05	10 (23%)	44,54,54	1.53	9 (20%)
16	V7N	ba	101	-	43,44,44	2.09	9 (20%)	44,54,54	1.84	13 (29%)
15	LMT	AT	102	-	36,36,36	1.11	5 (13%)	47,47,47	1.20	3 (6%)
16	V7N	AE	1005	-	43,44,44	2.05	10 (23%)	44,54,54	1.64	8 (18%)
15	LMT	BD	102	-	36,36,36	1.08	5 (13%)	47,47,47	0.90	2 (4%)
14	BCL	L	1002	-	64,74,74	1.24	6 (9%)	78,115,115	1.43	10 (12%)
15	LMT	BR	1003	-	36,36,36	1.08	5 (13%)	47,47,47	0.98	2 (4%)
15	LMT	bm	105	-	36,36,36	1.08	4 (11%)	47,47,47	0.87	2 (4%)
24	V7B	ag	1002	-	59,59,59	0.88	4 (6%)	75,75,75	1.03	4 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
25	BPH	L	1009	-	51,70,70	0.84	1 (1%)	52,101,101	1.01	5 (9%)
15	LMT	BK	1004	-	36,36,36	1.08	4 (11%)	47,47,47	0.94	2 (4%)
14	BCL	ao	102	-	64,74,74	1.29	6 (9%)	78,115,115	1.51	11 (14%)
14	BCL	ae	102	-	64,74,74	1.27	7 (10%)	78,115,115	1.51	10 (12%)
14	BCL	al	1001	-	64,74,74	1.27	6 (9%)	78,115,115	1.54	10 (12%)
14	BCL	AQ	101	29	64,74,74	1.29	5 (7%)	78,115,115	1.80	16 (20%)
15	LMT	BP	1003	-	36,36,36	1.06	4 (11%)	47,47,47	0.87	1 (2%)
15	LMT	AH	102	-	36,36,36	1.11	5 (13%)	47,47,47	0.99	3 (6%)
14	BCL	AI	102	-	64,74,74	1.24	7 (10%)	78,115,115	1.48	9 (11%)
20	0V9	bi	103	-	44,44,46	0.74	1 (2%)	47,49,51	0.86	2 (4%)
15	LMT	bi	102	-	36,36,36	1.08	4 (11%)	47,47,47	0.90	0
15	LMT	bn	101	-	36,36,36	1.10	5 (13%)	47,47,47	0.78	0
14	BCL	ba	103	-	64,74,74	1.27	5 (7%)	78,115,115	1.44	10 (12%)
14	BCL	aj	103	-	64,74,74	1.26	5 (7%)	78,115,115	1.49	9 (11%)
15	LMT	BE	103	-	36,36,36	1.08	5 (13%)	47,47,47	0.89	1 (2%)
20	0V9	bb	103	-	44,44,46	0.75	1 (2%)	47,49,51	0.82	1 (2%)
14	BCL	bd	102	-	64,74,74	1.28	5 (7%)	78,115,115	1.43	11 (14%)
14	BCL	ap	1001	-	64,74,74	1.27	7 (10%)	78,115,115	1.52	12 (15%)
15	LMT	L	1004	-	36,36,36	1.08	4 (11%)	47,47,47	0.97	1 (2%)
14	BCL	AH	101	-	64,74,74	1.30	5 (7%)	78,115,115	1.59	13 (16%)
14	BCL	AN	104	-	64,74,74	1.30	5 (7%)	78,115,115	1.56	11 (14%)
14	BCL	bm	104	-	64,74,74	1.24	6 (9%)	78,115,115	1.50	14 (17%)
20	0V9	ba	102	-	44,44,46	0.75	1 (2%)	47,49,51	0.79	1 (2%)
16	V7N	BQ	1001	-	43,44,44	2.04	9 (20%)	44,54,54	1.50	9 (20%)
15	LMT	AD	101	-	36,36,36	1.07	5 (13%)	47,47,47	1.00	3 (6%)
15	LMT	AA	1003	-	36,36,36	1.10	5 (13%)	47,47,47	1.03	2 (4%)
14	BCL	AU	102	-	64,74,74	1.26	7 (10%)	78,115,115	1.44	9 (11%)
14	BCL	AA	1002	29	64,74,74	1.28	6 (9%)	78,115,115	1.55	13 (16%)
14	BCL	an	1001	-	64,74,74	1.27	5 (7%)	78,115,115	1.45	10 (12%)
15	LMT	BU	1003	-	36,36,36	1.09	5 (13%)	47,47,47	0.81	1 (2%)
15	LMT	ab	101	-	36,36,36	1.10	5 (13%)	47,47,47	0.90	1 (2%)
14	BCL	AR	102	-	64,74,74	1.30	7 (10%)	78,115,115	1.61	15 (19%)
14	BCL	AM	102	29	64,74,74	1.30	6 (9%)	78,115,115	1.57	12 (15%)
15	LMT	BG	1006	-	36,36,36	1.08	5 (13%)	47,47,47	0.86	1 (2%)
15	LMT	bb	102	-	36,36,36	1.10	5 (13%)	47,47,47	1.11	4 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
16	V7N	BP	1001	-	43,44,44	2.03	9 (20%)	44,54,54	1.51	9 (20%)
16	V7N	BC	101	-	43,44,44	2.08	11 (25%)	44,54,54	1.49	9 (20%)
14	BCL	AE	1003	29	64,74,74	1.29	5 (7%)	78,115,115	1.46	11 (14%)
14	BCL	ag	1001	-	64,74,74	1.27	5 (7%)	78,115,115	1.48	9 (11%)
15	LMT	BB	104	-	36,36,36	1.09	5 (13%)	47,47,47	0.88	1 (2%)
16	V7N	bl	102	-	43,44,44	2.05	10 (23%)	44,54,54	1.56	10 (22%)
15	LMT	BI	1006	-	36,36,36	1.07	4 (11%)	47,47,47	1.05	2 (4%)
16	V7N	bn	102	-	43,44,44	2.11	11 (25%)	44,54,54	1.56	8 (18%)
14	BCL	ab	102	-	64,74,74	1.29	6 (9%)	78,115,115	1.47	10 (12%)
14	BCL	BV	1005	-	64,74,74	1.24	5 (7%)	78,115,115	1.46	10 (12%)
17	HEC	C	404	5	32,50,50	1.99	3 (9%)	24,82,82	1.82	5 (20%)
15	LMT	BO	1002	-	36,36,36	1.06	4 (11%)	47,47,47	0.90	1 (2%)
14	BCL	BM	1002	-	64,74,74	1.26	5 (7%)	78,115,115	1.46	11 (14%)
15	LMT	BT	104	-	36,36,36	1.12	5 (13%)	47,47,47	0.85	0
14	BCL	AV	102	-	64,74,74	1.26	6 (9%)	78,115,115	1.41	9 (11%)
14	BCL	AE	1004	-	64,74,74	1.32	6 (9%)	78,115,115	1.53	12 (15%)
15	LMT	BL	1002	-	36,36,36	1.07	5 (13%)	47,47,47	1.00	2 (4%)
14	BCL	AD	102	-	64,74,74	1.26	6 (9%)	78,115,115	1.49	10 (12%)
15	LMT	AJ	104	-	36,36,36	1.08	5 (13%)	47,47,47	0.95	3 (6%)
15	LMT	AJ	103	-	36,36,36	1.09	4 (11%)	47,47,47	1.20	5 (10%)
21	CD4	af	102	-	83,83,83	0.47	0	89,95,95	1.13	6 (6%)
15	LMT	BC	102	-	36,36,36	1.09	5 (13%)	47,47,47	0.87	1 (2%)
20	0V9	bj	104	-	44,44,46	0.75	1 (2%)	47,49,51	0.91	3 (6%)
16	V7N	bi	101	-	43,44,44	2.07	11 (25%)	44,54,54	1.60	12 (27%)
15	LMT	bo	101	-	36,36,36	1.11	5 (13%)	47,47,47	0.88	1 (2%)
15	LMT	BP	1004	-	36,36,36	1.07	5 (13%)	47,47,47	0.94	2 (4%)
14	BCL	AT	101	-	64,74,74	1.27	7 (10%)	78,115,115	1.45	9 (11%)
16	V7N	bc	101	-	43,44,44	2.04	10 (23%)	44,54,54	1.54	9 (20%)
15	LMT	BP	1002	-	36,36,36	1.09	5 (13%)	47,47,47	0.88	0
14	BCL	AS	104	29	64,74,74	1.33	6 (9%)	78,115,115	1.61	11 (14%)
14	BCL	bo	103	-	64,74,74	1.25	5 (7%)	78,115,115	1.45	11 (14%)
15	LMT	BE	102	-	36,36,36	1.10	5 (13%)	47,47,47	0.97	3 (6%)
15	LMT	BT	102	-	36,36,36	1.05	5 (13%)	47,47,47	1.01	3 (6%)
16	V7N	BA	101	-	43,44,44	2.05	9 (20%)	44,54,54	1.45	8 (18%)
27	CRT	M	404	-	41,43,43	0.56	0	50,54,54	0.91	3 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	BCL	AL	103	-	64,74,74	1.27	7 (10%)	78,115,115	1.46	9 (11%)
14	BCL	BK	1006	-	64,74,74	1.25	5 (7%)	78,115,115	1.48	10 (12%)
15	LMT	AL	102	-	36,36,36	1.09	4 (11%)	47,47,47	0.83	0
15	LMT	BQ	1004	-	36,36,36	1.10	5 (13%)	47,47,47	0.87	1 (2%)
15	LMT	bl	105	-	36,36,36	1.10	5 (13%)	47,47,47	0.84	2 (4%)
15	LMT	BR	1005	-	36,36,36	1.06	4 (11%)	47,47,47	0.86	0
14	BCL	M	408	-	64,74,74	1.26	5 (7%)	78,115,115	1.51	11 (14%)
14	BCL	AJ	101	-	64,74,74	1.26	6 (9%)	78,115,115	1.47	9 (11%)
15	LMT	AX	101	-	36,36,36	1.06	4 (11%)	47,47,47	0.96	3 (6%)
15	LMT	AP	104	-	36,36,36	1.08	5 (13%)	47,47,47	0.94	1 (2%)
14	BCL	AN	102	-	64,74,74	1.26	6 (9%)	78,115,115	1.45	9 (11%)
16	V7N	BL	1001	-	43,44,44	2.01	9 (20%)	44,54,54	1.58	10 (22%)
15	LMT	AA	1004	-	36,36,36	1.10	5 (13%)	47,47,47	0.93	2 (4%)
15	LMT	BC	105	-	36,36,36	1.09	4 (11%)	47,47,47	0.91	1 (2%)
16	V7N	bm	101	-	43,44,44	2.09	9 (20%)	44,54,54	1.55	9 (20%)
15	LMT	BH	1002	-	36,36,36	1.10	5 (13%)	47,47,47	0.94	2 (4%)
14	BCL	AX	103	-	64,74,74	1.28	7 (10%)	78,115,115	1.48	9 (11%)
14	BCL	AX	102	-	64,74,74	1.29	6 (9%)	78,115,115	1.61	14 (17%)
15	LMT	bj	102	-	36,36,36	1.11	5 (13%)	47,47,47	0.92	2 (4%)
15	LMT	AQ	103	-	36,36,36	1.09	5 (13%)	47,47,47	1.02	3 (6%)
15	LMT	L	1008	-	36,36,36	1.08	4 (11%)	47,47,47	0.94	2 (4%)
17	HEC	C	403	5	32,50,50	1.96	3 (9%)	24,82,82	2.00	6 (25%)
15	LMT	BX	1003	-	36,36,36	1.06	5 (13%)	47,47,47	0.95	2 (4%)
16	V7N	BJ	1001	-	43,44,44	2.00	9 (20%)	44,54,54	1.57	10 (22%)
15	LMT	bf	102	-	36,36,36	1.10	5 (13%)	47,47,47	0.82	0
20	0V9	bm	102	-	44,44,46	0.74	1 (2%)	47,49,51	0.83	1 (2%)

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
15	LMT	BN	104	-	-	5/21/61/61	0/2/2/2
14	BCL	AV	101	29	-	4/37/137/137	-
16	V7N	bh	102	-	-	5/53/53/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	BCL	AB	1001	-	-	4/37/137/137	-
15	LMT	BJ	1004	-	-	1/21/61/61	0/2/2/2
15	LMT	BH	1003	-	-	7/21/61/61	0/2/2/2
15	LMT	BD	103	-	-	7/21/61/61	0/2/2/2
15	LMT	BW	1005	-	-	1/21/61/61	0/2/2/2
16	V7N	BU	1001	-	-	8/53/53/53	-
15	LMT	AH	104	-	-	6/21/61/61	0/2/2/2
15	LMT	L	1005	-	-	1/21/61/61	0/2/2/2
15	LMT	bc	104	-	-	7/21/61/61	0/2/2/2
14	BCL	AC	101	-	-	10/37/137/137	-
16	V7N	BI	1001	-	-	5/53/53/53	-
14	BCL	BO	1004	-	-	8/37/137/137	-
15	LMT	bh	101	-	-	6/21/61/61	0/2/2/2
16	V7N	bg	101	-	-	6/53/53/53	-
19	NDG	C1	1002	18	-	0/6/23/26	0/1/1/1
15	LMT	BG	1002	-	-	7/21/61/61	0/2/2/2
20	0V9	bo	104	-	-	9/48/48/50	-
16	V7N	BE	101	-	-	3/53/53/53	-
14	BCL	ah	1001	-	-	2/37/137/137	-
15	LMT	BI	1002	-	-	2/21/61/61	0/2/2/2
14	BCL	AP	102	-	-	4/37/137/137	-
15	LMT	BL	1005	-	-	2/21/61/61	0/2/2/2
14	BCL	BF	102	-	-	9/37/137/137	-
20	0V9	be	102	-	-	12/48/48/50	-
14	BCL	AW	101	-	-	1/37/137/137	-
15	LMT	BQ	1005	-	-	1/21/61/61	0/2/2/2
15	LMT	BS	1005	-	-	4/21/61/61	0/2/2/2
18	V75	C	405	13,19	-	2/12/29/29	0/1/1/1
15	LMT	BK	1002	-	-	3/21/61/61	0/2/2/2
18	V75	M	409	13,19	-	0/12/29/29	0/1/1/1
16	V7N	BO	1001	-	-	6/53/53/53	-
17	HEC	C	401	5	-	2/10/54/54	-
14	BCL	ak	1001	-	-	6/37/137/137	-
16	V7N	BX	1001	-	-	5/53/53/53	-
16	V7N	BB	101	-	-	5/53/53/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	BCL	BW	1003	-	-	8/37/137/137	-
15	LMT	bh	104	-	-	5/21/61/61	0/2/2/2
15	LMT	BK	1005	-	-	4/21/61/61	0/2/2/2
16	V7N	BV	1001	-	-	3/53/53/53	-
15	LMT	bd	103	-	-	5/21/61/61	0/2/2/2
15	LMT	BK	1003	-	-	8/21/61/61	0/2/2/2
14	BCL	bn	103	-	-	7/37/137/137	-
14	BCL	bl	104	-	-	12/37/137/137	-
15	LMT	bg	103	-	-	4/21/61/61	0/2/2/2
16	V7N	bd	101	-	-	3/53/53/53	-
15	LMT	BO	1003	-	-	1/21/61/61	0/2/2/2
14	BCL	BH	1005	-	-	10/37/137/137	-
15	LMT	BA	102	-	-	4/21/61/61	0/2/2/2
16	V7N	be	101	-	-	5/53/53/53	-
14	BCL	AB	1002	29	-	7/37/137/137	-
14	BCL	BX	1002	-	-	9/37/137/137	-
20	0V9	bg	102	-	-	17/48/48/50	-
14	BCL	BR	1004	-	-	3/37/137/137	-
14	BCL	AH	103	-	-	5/37/137/137	-
23	MQ8	L	1001	-	-	8/47/67/67	0/2/2/2
15	LMT	bl	101	-	-	8/21/61/61	0/2/2/2
15	LMT	M	403	-	-	5/21/61/61	0/2/2/2
20	0V9	bc	103	-	-	11/48/48/50	-
20	0V9	bl	103	-	-	16/48/48/50	-
20	0V9	bn	104	-	-	10/48/48/50	-
20	0V9	bp	103	-	-	13/48/48/50	-
23	MQ8	ao	101	-	-	11/47/67/67	0/2/2/2
16	V7N	BD	101	-	-	3/53/53/53	-
14	BCL	BP	1005	-	-	6/37/137/137	-
15	LMT	BG	1003	-	-	2/21/61/61	0/2/2/2
21	CD4	H1	104	-	-	19/94/94/94	-
16	V7N	BH	1001	-	-	5/53/53/53	-
15	LMT	BV	1004	-	-	4/21/61/61	0/2/2/2
16	V7N	bo	102	-	-	4/53/53/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
16	V7N	AO	1001	-	-	6/53/53/53	-
14	BCL	L	1010	-	-	4/37/137/137	-
15	LMT	bo	105	-	-	5/21/61/61	0/2/2/2
14	BCL	bh	105	-	-	6/37/137/137	-
14	BCL	AA	1001	-	-	5/37/137/137	-
14	BCL	ad	1001	-	-	8/37/137/137	-
15	LMT	BB	102	-	-	2/21/61/61	0/2/2/2
17	HEC	C	402	5	-	0/10/54/54	-
14	BCL	AI	103	-	-	11/37/137/137	-
14	BCL	AQ	102	-	-	0/37/137/137	-
15	LMT	BM	1003	-	-	8/21/61/61	0/2/2/2
14	BCL	AO	1002	-	-	1/37/137/137	-
21	CD4	H1	102	-	-	22/94/94/94	-
15	LMT	BB	105	-	-	5/21/61/61	0/2/2/2
15	LMT	L	1011	-	-	3/21/61/61	0/2/2/2
20	0V9	C1	1001	-	-	13/48/48/50	-
15	LMT	AC	104	-	-	4/21/61/61	0/2/2/2
15	LMT	AN	103	-	-	2/21/61/61	0/2/2/2
16	V7N	BG	1001	-	-	5/53/53/53	-
21	CD4	ae	101	-	-	28/94/94/94	-
14	BCL	BG	1004	-	-	6/37/137/137	-
21	CD4	M	402	-	-	22/94/94/94	-
14	BCL	AK	101	29	-	11/37/137/137	-
15	LMT	BR	1002	-	-	4/21/61/61	0/2/2/2
14	BCL	BU	1004	-	-	9/37/137/137	-
14	BCL	BL	1003	-	-	3/37/137/137	-
19	NDG	C	406	18	-	0/6/23/26	0/1/1/1
15	LMT	BF	101	-	-	2/21/61/61	0/2/2/2
15	LMT	BI	1005	-	-	1/21/61/61	0/2/2/2
14	BCL	bb	104	-	-	7/37/137/137	-
14	BCL	bp	102	-	-	11/37/137/137	-
15	LMT	BV	1006	-	-	2/21/61/61	0/2/2/2
20	0V9	H1	101	-	-	9/48/48/50	-
20	0V9	be	103	-	-	12/48/48/50	-
14	BCL	BB	103	-	-	10/37/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	BCL	AE	1001	-	-	1/37/137/137	-
15	LMT	BV	1003	-	-	3/21/61/61	0/2/2/2
15	LMT	BC	106	-	-	3/21/61/61	0/2/2/2
16	V7N	bf	101	-	-	5/53/53/53	-
20	0V9	bk	104	-	-	13/48/48/50	-
15	LMT	BF	103	-	-	4/21/61/61	0/2/2/2
14	BCL	BE	104	-	-	7/37/137/137	-
14	BCL	AS	103	-	-	2/37/137/137	-
15	LMT	L	1003	-	-	8/21/61/61	0/2/2/2
16	V7N	BM	1001	-	-	6/53/53/53	-
15	LMT	BI	1004	-	-	3/21/61/61	0/2/2/2
15	LMT	BS	1006	-	-	3/21/61/61	0/2/2/2
15	LMT	BA	104	-	-	7/21/61/61	0/2/2/2
20	0V9	bh	103	-	-	11/48/48/50	-
16	V7N	BW	1001	-	-	3/53/53/53	-
15	LMT	BU	1002	-	-	8/21/61/61	0/2/2/2
16	V7N	AS	105	-	-	5/53/53/53	-
14	BCL	AG	102	-	-	5/37/137/137	-
16	V7N	bk	101	-	-	3/53/53/53	-
15	LMT	BJ	1003	-	-	3/21/61/61	0/2/2/2
14	BCL	AR	101	-	-	3/37/137/137	-
15	LMT	BN	105	-	-	3/21/61/61	0/2/2/2
14	BCL	bg	105	-	-	5/37/137/137	-
14	BCL	be	105	-	-	8/37/137/137	-
23	MQ8	M	407	-	-	6/47/67/67	0/2/2/2
21	CD4	aj	102	-	-	26/94/94/94	-
14	BCL	am	1001	-	-	4/37/137/137	-
14	BCL	BI	1003	-	-	12/37/137/137	-
15	LMT	AI	101	-	-	4/21/61/61	0/2/2/2
14	BCL	BQ	1003	-	-	9/37/137/137	-
16	V7N	bj	101	-	-	7/53/53/53	-
15	LMT	BL	1004	-	-	7/21/61/61	0/2/2/2
14	BCL	BC	104	-	-	9/37/137/137	-
15	LMT	bn	105	-	-	5/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	BCL	AC	103	29	-	4/37/137/137	-
14	BCL	AC	102	-	-	5/37/137/137	-
15	LMT	L	1007	-	-	2/21/61/61	0/2/2/2
14	BCL	AV	103	29	-	11/37/137/137	-
15	LMT	AP	101	-	-	5/21/61/61	0/2/2/2
14	BCL	bk	102	-	-	9/37/137/137	-
15	LMT	AU	101	-	-	6/21/61/61	0/2/2/2
15	LMT	BD	104	-	-	3/21/61/61	0/2/2/2
14	BCL	bj	103	-	-	7/37/137/137	-
15	LMT	AD	103	-	-	3/21/61/61	0/2/2/2
28	UYH	ai	102	-	-	7/50/70/70	0/1/1/1
14	BCL	BA	103	-	-	9/37/137/137	-
16	V7N	BR	1001	-	-	6/53/53/53	-
15	LMT	BX	1004	-	-	5/21/61/61	0/2/2/2
15	LMT	BS	1004	-	-	6/21/61/61	0/2/2/2
20	0V9	bg	104	-	-	9/48/48/50	-
15	LMT	BC	103	-	-	3/21/61/61	0/2/2/2
15	LMT	BH	1004	-	-	3/21/61/61	0/2/2/2
14	BCL	M	405	-	-	2/37/137/137	-
24	V7B	L	1006	-	-	9/48/88/88	0/2/2/2
14	BCL	BD	105	-	-	5/37/137/137	-
15	LMT	BN	101	-	-	7/21/61/61	0/2/2/2
25	BPH	M	406	-	-	6/37/105/105	0/5/6/6
14	BCL	AP	103	29	-	6/37/137/137	-
14	BCL	ac	1001	-	-	4/37/137/137	-
14	BCL	aa	1001	-	-	7/37/137/137	-
15	LMT	AF	1002	-	-	7/21/61/61	0/2/2/2
15	LMT	BV	1002	-	-	1/21/61/61	0/2/2/2
16	V7N	bp	101	-	-	4/53/53/53	-
14	BCL	AN	101	-	-	5/37/137/137	-
22	PGW	H1	103	-	-	15/55/55/55	-
15	LMT	bm	103	-	-	8/21/61/61	0/2/2/2
15	LMT	AG	103	-	-	10/21/61/61	0/2/2/2
14	BCL	AM	101	-	-	4/37/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	BCL	af	101	-	-	3/37/137/137	-
15	LMT	be	104	-	-	10/21/61/61	0/2/2/2
15	LMT	BA	105	-	-	6/21/61/61	0/2/2/2
14	BCL	BJ	1002	-	-	9/37/137/137	-
20	0V9	aj	101	-	-	15/48/48/50	-
14	BCL	AK	102	-	-	1/37/137/137	-
15	LMT	BN	102	-	-	3/21/61/61	0/2/2/2
14	BCL	bf	103	-	-	8/37/137/137	-
15	LMT	AS	101	-	-	8/21/61/61	0/2/2/2
14	BCL	AL	101	-	-	11/37/137/137	-
14	BCL	bc	102	-	-	10/37/137/137	-
14	BCL	bi	104	-	-	6/37/137/137	-
15	LMT	BW	1004	-	-	4/21/61/61	0/2/2/2
14	BCL	AJ	102	29	-	11/37/137/137	-
14	BCL	AF	1001	-	-	4/37/137/137	-
20	0V9	bk	103	-	-	10/48/48/50	-
14	BCL	AS	102	29	-	9/37/137/137	-
15	LMT	BW	1002	-	-	3/21/61/61	0/2/2/2
16	V7N	bb	101	-	-	11/53/53/53	-
14	BCL	AG	101	29	-	12/37/137/137	-
15	LMT	BG	1005	-	-	3/21/61/61	0/2/2/2
16	V7N	BS	1001	-	-	4/53/53/53	-
15	LMT	AE	1002	-	-	4/21/61/61	0/2/2/2
14	BCL	BS	1003	-	-	6/37/137/137	-
14	BCL	ai	101	-	-	11/37/137/137	-
14	BCL	BT	103	-	-	6/37/137/137	-
15	LMT	BM	1004	-	-	1/21/61/61	0/2/2/2
15	LMT	BQ	1002	-	-	3/21/61/61	0/2/2/2
14	BCL	BN	103	-	-	11/37/137/137	-
15	LMT	BS	1002	-	-	3/21/61/61	0/2/2/2
15	LMT	BT	101	-	-	4/21/61/61	0/2/2/2
14	BCL	AU	103	-	-	5/37/137/137	-
16	V7N	BK	1001	-	-	3/53/53/53	-
16	V7N	ba	101	-	-	7/53/53/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
15	LMT	AT	102	-	-	3/21/61/61	0/2/2/2
16	V7N	AE	1005	-	-	4/53/53/53	-
15	LMT	BD	102	-	-	6/21/61/61	0/2/2/2
14	BCL	L	1002	-	-	1/37/137/137	-
15	LMT	BR	1003	-	-	7/21/61/61	0/2/2/2
15	LMT	bm	105	-	-	10/21/61/61	0/2/2/2
24	V7B	ag	1002	-	-	11/48/88/88	0/2/2/2
25	BPH	L	1009	-	-	6/37/105/105	0/5/6/6
15	LMT	BK	1004	-	-	5/21/61/61	0/2/2/2
14	BCL	ao	102	-	-	6/37/137/137	-
14	BCL	ae	102	-	-	10/37/137/137	-
14	BCL	al	1001	-	-	7/37/137/137	-
14	BCL	AQ	101	29	-	10/37/137/137	-
15	LMT	BP	1003	-	-	3/21/61/61	0/2/2/2
15	LMT	AH	102	-	-	3/21/61/61	0/2/2/2
14	BCL	AI	102	-	-	8/37/137/137	-
20	0V9	bi	103	-	-	10/48/48/50	-
15	LMT	bi	102	-	-	3/21/61/61	0/2/2/2
15	LMT	bn	101	-	-	9/21/61/61	0/2/2/2
14	BCL	ba	103	-	-	2/37/137/137	-
14	BCL	aj	103	-	-	9/37/137/137	-
15	LMT	BE	103	-	-	5/21/61/61	0/2/2/2
20	0V9	bb	103	-	-	12/48/48/50	-
14	BCL	bd	102	-	-	4/37/137/137	-
14	BCL	ap	1001	-	-	7/37/137/137	-
15	LMT	L	1004	-	-	5/21/61/61	0/2/2/2
14	BCL	AH	101	-	-	7/37/137/137	-
14	BCL	AN	104	-	-	9/37/137/137	-
14	BCL	bm	104	-	-	8/37/137/137	-
20	0V9	ba	102	-	-	9/48/48/50	-
16	V7N	BQ	1001	-	-	5/53/53/53	-
15	LMT	AD	101	-	-	8/21/61/61	0/2/2/2
15	LMT	AA	1003	-	-	9/21/61/61	0/2/2/2
14	BCL	AU	102	-	-	2/37/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	BCL	AA	1002	29	-	6/37/137/137	-
14	BCL	an	1001	-	-	9/37/137/137	-
15	LMT	BU	1003	-	-	2/21/61/61	0/2/2/2
15	LMT	ab	101	-	-	3/21/61/61	0/2/2/2
14	BCL	AR	102	-	-	10/37/137/137	-
14	BCL	AM	102	29	-	8/37/137/137	-
15	LMT	BG	1006	-	-	1/21/61/61	0/2/2/2
15	LMT	bb	102	-	-	9/21/61/61	0/2/2/2
16	V7N	BP	1001	-	-	2/53/53/53	-
16	V7N	BC	101	-	-	3/53/53/53	-
14	BCL	AE	1003	29	-	12/37/137/137	-
14	BCL	ag	1001	-	-	7/37/137/137	-
15	LMT	BB	104	-	-	6/21/61/61	0/2/2/2
16	V7N	bl	102	-	-	4/53/53/53	-
15	LMT	BI	1006	-	-	4/21/61/61	0/2/2/2
16	V7N	bn	102	-	-	3/53/53/53	-
14	BCL	ab	102	-	-	6/37/137/137	-
14	BCL	BV	1005	-	-	10/37/137/137	-
17	HEC	C	404	5	-	2/10/54/54	-
15	LMT	BO	1002	-	-	3/21/61/61	0/2/2/2
14	BCL	BM	1002	-	-	14/37/137/137	-
15	LMT	BT	104	-	-	6/21/61/61	0/2/2/2
14	BCL	AV	102	-	-	3/37/137/137	-
14	BCL	AE	1004	-	-	7/37/137/137	-
15	LMT	BL	1002	-	-	6/21/61/61	0/2/2/2
14	BCL	AD	102	-	-	1/37/137/137	-
15	LMT	AJ	104	-	-	7/21/61/61	0/2/2/2
15	LMT	AJ	103	-	-	9/21/61/61	0/2/2/2
21	CD4	af	102	-	-	22/94/94/94	-
15	LMT	BC	102	-	-	5/21/61/61	0/2/2/2
20	0V9	bj	104	-	-	13/48/48/50	-
16	V7N	bi	101	-	-	8/53/53/53	-
15	LMT	bo	101	-	-	0/21/61/61	0/2/2/2
15	LMT	BP	1004	-	-	2/21/61/61	0/2/2/2
14	BCL	AT	101	-	-	0/37/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
16	V7N	bc	101	-	-	4/53/53/53	-
15	LMT	BP	1002	-	-	5/21/61/61	0/2/2/2
14	BCL	AS	104	29	-	8/37/137/137	-
14	BCL	bo	103	-	-	4/37/137/137	-
15	LMT	BE	102	-	-	3/21/61/61	0/2/2/2
15	LMT	BT	102	-	-	6/21/61/61	0/2/2/2
16	V7N	BA	101	-	-	3/53/53/53	-
27	CRT	M	404	-	-	4/51/51/51	-
14	BCL	AL	103	-	-	4/37/137/137	-
14	BCL	BK	1006	-	-	8/37/137/137	-
15	LMT	AL	102	-	-	1/21/61/61	0/2/2/2
15	LMT	BQ	1004	-	-	7/21/61/61	0/2/2/2
15	LMT	bl	105	-	-	2/21/61/61	0/2/2/2
15	LMT	BR	1005	-	-	6/21/61/61	0/2/2/2
14	BCL	M	408	-	-	1/37/137/137	-
14	BCL	AJ	101	-	-	0/37/137/137	-
15	LMT	AX	101	-	-	10/21/61/61	0/2/2/2
15	LMT	AP	104	-	-	3/21/61/61	0/2/2/2
14	BCL	AN	102	-	-	1/37/137/137	-
16	V7N	BL	1001	-	-	5/53/53/53	-
15	LMT	AA	1004	-	-	3/21/61/61	0/2/2/2
15	LMT	BC	105	-	-	4/21/61/61	0/2/2/2
16	V7N	bm	101	-	-	8/53/53/53	-
15	LMT	BH	1002	-	-	4/21/61/61	0/2/2/2
14	BCL	AX	103	-	-	5/37/137/137	-
14	BCL	AX	102	-	-	11/37/137/137	-
15	LMT	bj	102	-	-	6/21/61/61	0/2/2/2
15	LMT	AQ	103	-	-	7/21/61/61	0/2/2/2
15	LMT	L	1008	-	-	6/21/61/61	0/2/2/2
17	HEC	C	403	5	-	4/10/54/54	-
15	LMT	BX	1003	-	-	7/21/61/61	0/2/2/2
16	V7N	BJ	1001	-	-	4/53/53/53	-
15	LMT	bf	102	-	-	4/21/61/61	0/2/2/2
20	0V9	bm	102	-	-	10/48/48/50	-

All (1650) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	bn	102	V7N	C28-C27	7.04	1.52	1.34
16	BI	1001	V7N	C28-C27	7.03	1.52	1.34
16	BC	101	V7N	C28-C27	7.02	1.52	1.34
16	BK	1001	V7N	C28-C27	7.00	1.52	1.34
16	BP	1001	V7N	C28-C27	7.00	1.52	1.34
16	be	101	V7N	C28-C27	6.99	1.52	1.34
16	bp	101	V7N	C28-C27	6.99	1.52	1.34
16	bg	101	V7N	C28-C27	6.95	1.52	1.34
16	BU	1001	V7N	C28-C27	6.94	1.52	1.34
16	BX	1001	V7N	C28-C27	6.94	1.52	1.34
16	BD	101	V7N	C28-C27	6.93	1.52	1.34
16	AE	1005	V7N	C28-C27	6.93	1.52	1.34
16	bo	102	V7N	C28-C27	6.93	1.52	1.34
16	BV	1001	V7N	C28-C27	6.92	1.52	1.34
16	BO	1001	V7N	C28-C27	6.92	1.52	1.34
16	BR	1001	V7N	C28-C27	6.92	1.52	1.34
16	BL	1001	V7N	C28-C27	6.91	1.52	1.34
16	bd	101	V7N	C28-C27	6.90	1.52	1.34
16	bb	101	V7N	C28-C27	6.90	1.52	1.34
16	ba	101	V7N	C28-C27	6.89	1.52	1.34
16	AO	1001	V7N	C28-C27	6.89	1.52	1.34
16	BE	101	V7N	C28-C27	6.88	1.52	1.34
16	BH	1001	V7N	C28-C27	6.87	1.52	1.34
16	BS	1001	V7N	C28-C27	6.87	1.52	1.34
16	BQ	1001	V7N	C28-C27	6.87	1.52	1.34
16	bi	101	V7N	C28-C27	6.87	1.52	1.34
16	bl	102	V7N	C28-C27	6.86	1.52	1.34
16	bm	101	V7N	C28-C27	6.86	1.52	1.34
16	bh	102	V7N	C28-C27	6.85	1.52	1.34
16	BJ	1001	V7N	C28-C27	6.85	1.52	1.34
16	bf	101	V7N	C28-C27	6.85	1.52	1.34
16	BM	1001	V7N	C28-C27	6.85	1.52	1.34
16	BW	1001	V7N	C28-C27	6.84	1.52	1.34
16	BA	101	V7N	C28-C27	6.83	1.52	1.34
16	BG	1001	V7N	C28-C27	6.82	1.52	1.34
16	AS	105	V7N	C28-C27	6.81	1.52	1.34
16	bj	101	V7N	C28-C27	6.79	1.52	1.34
16	BB	101	V7N	C28-C27	6.79	1.52	1.34
16	bk	101	V7N	C28-C27	6.78	1.52	1.34
16	bc	101	V7N	C28-C27	6.77	1.52	1.34
14	BI	1003	BCL	O2A-CGA	-5.59	1.16	1.33
17	C	402	HEC	C2B-C3B	-5.49	1.35	1.40
17	C	403	HEC	C3C-C2C	-5.41	1.35	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
17	C	404	HEC	C3C-C2C	-5.40	1.35	1.40
17	C	401	HEC	C3C-C2C	-5.39	1.35	1.40
17	C	402	HEC	C3C-C2C	-5.35	1.35	1.40
17	C	404	HEC	C2B-C3B	-5.34	1.35	1.40
17	C	404	HEC	C3D-C2D	5.29	1.53	1.37
17	C	402	HEC	C3D-C2D	5.24	1.53	1.37
17	C	403	HEC	C3D-C2D	5.24	1.53	1.37
14	AX	103	BCL	MG-NA	5.23	2.18	2.06
14	AC	103	BCL	C1B-NB	5.23	1.39	1.35
14	AN	104	BCL	C1B-NB	5.23	1.39	1.35
17	C	401	HEC	C3D-C2D	5.20	1.53	1.37
17	C	403	HEC	C2B-C3B	-5.18	1.35	1.40
14	AE	1004	BCL	MG-NA	5.14	2.18	2.06
14	AN	101	BCL	MG-NA	5.13	2.18	2.06
14	AA	1001	BCL	MG-NA	5.12	2.18	2.06
14	AM	101	BCL	MG-NA	5.12	2.18	2.06
14	AR	102	BCL	MG-NA	5.12	2.18	2.06
14	AH	101	BCL	C1B-NB	5.12	1.39	1.35
14	AV	103	BCL	C1B-NB	5.11	1.39	1.35
14	AB	1001	BCL	MG-NA	5.10	2.18	2.06
14	AP	102	BCL	MG-NA	5.10	2.18	2.06
14	AG	101	BCL	C1B-NB	5.09	1.39	1.35
14	AD	102	BCL	MG-NA	5.09	2.18	2.06
14	AR	101	BCL	MG-NA	5.08	2.18	2.06
14	AV	102	BCL	MG-NA	5.08	2.18	2.06
14	AC	102	BCL	MG-NA	5.07	2.18	2.06
16	bm	101	V7N	C14-C13	5.07	1.42	1.35
14	AE	1003	BCL	C1B-NB	5.07	1.39	1.35
14	AL	103	BCL	MG-NA	5.06	2.18	2.06
14	AK	102	BCL	MG-NA	5.06	2.18	2.06
14	AC	101	BCL	MG-NA	5.06	2.18	2.06
14	AE	1001	BCL	MG-NA	5.06	2.18	2.06
14	AP	103	BCL	MG-NA	5.06	2.18	2.06
14	AA	1002	BCL	C1B-NB	5.05	1.39	1.35
16	bo	102	V7N	C14-C13	5.05	1.42	1.35
14	AC	101	BCL	C1B-NB	5.05	1.39	1.35
16	BU	1001	V7N	C14-C13	5.04	1.42	1.35
14	AH	103	BCL	MG-NA	5.04	2.18	2.06
14	AL	101	BCL	MG-NA	5.03	2.18	2.06
14	AX	102	BCL	C1B-NB	5.03	1.39	1.35
14	ah	1001	BCL	MG-NA	5.03	2.18	2.06
14	AG	102	BCL	MG-NA	5.03	2.18	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	AJ	102	BCL	C1B-NB	5.03	1.39	1.35
14	AM	102	BCL	MG-NA	5.03	2.18	2.06
14	AT	101	BCL	MG-NA	5.03	2.18	2.06
14	AJ	101	BCL	MG-NA	5.02	2.18	2.06
14	AQ	101	BCL	C1B-NB	5.01	1.39	1.35
14	AQ	102	BCL	MG-NA	5.01	2.18	2.06
14	AU	102	BCL	MG-NA	5.01	2.18	2.06
14	AS	104	BCL	C1B-NB	5.01	1.39	1.35
14	AJ	102	BCL	MG-NA	5.00	2.18	2.06
17	C	401	HEC	C2B-C3B	-5.00	1.35	1.40
14	AW	101	BCL	MG-NA	4.99	2.18	2.06
14	ad	1001	BCL	C1B-NB	4.99	1.39	1.35
14	AF	1001	BCL	MG-NA	4.99	2.18	2.06
16	ba	101	V7N	C14-C13	4.99	1.42	1.35
14	AL	101	BCL	C1B-NB	4.99	1.39	1.35
16	bn	102	V7N	C14-C13	4.98	1.42	1.35
14	AS	102	BCL	C1B-NB	4.98	1.39	1.35
14	AO	1002	BCL	MG-NA	4.97	2.18	2.06
14	aa	1001	BCL	MG-NA	4.97	2.18	2.06
14	ab	102	BCL	C1B-NB	4.97	1.39	1.35
14	al	1001	BCL	MG-NA	4.97	2.18	2.06
14	ak	1001	BCL	MG-NA	4.96	2.18	2.06
14	AS	103	BCL	MG-NA	4.96	2.18	2.06
14	AS	104	BCL	MG-NA	4.95	2.18	2.06
14	aa	1001	BCL	C1B-NB	4.95	1.39	1.35
14	bf	103	BCL	C1B-NB	4.95	1.39	1.35
16	BC	101	V7N	C14-C13	4.95	1.42	1.35
14	AV	101	BCL	MG-NA	4.95	2.18	2.06
14	ah	1001	BCL	C1B-NB	4.94	1.39	1.35
16	bi	101	V7N	C14-C13	4.94	1.42	1.35
14	AI	102	BCL	MG-NA	4.94	2.18	2.06
14	bp	102	BCL	MG-NA	4.94	2.18	2.06
16	BO	1001	V7N	C14-C13	4.94	1.42	1.35
16	bk	101	V7N	C14-C13	4.94	1.42	1.35
14	bh	105	BCL	MG-NA	4.94	2.18	2.06
14	AI	103	BCL	C1B-NB	4.93	1.39	1.35
14	be	105	BCL	C1B-NB	4.93	1.39	1.35
14	AK	101	BCL	C1B-NB	4.93	1.39	1.35
16	bp	101	V7N	C14-C13	4.93	1.42	1.35
14	AP	103	BCL	C1B-NB	4.93	1.39	1.35
14	AE	1004	BCL	C1B-NB	4.92	1.39	1.35
14	AV	101	BCL	C1B-NB	4.92	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	ab	102	BCL	MG-NA	4.91	2.17	2.06
14	bd	102	BCL	C1B-NB	4.91	1.39	1.35
14	ad	1001	BCL	MG-NA	4.90	2.17	2.06
16	bb	101	V7N	C14-C13	4.90	1.42	1.35
14	AN	101	BCL	C1B-NB	4.90	1.39	1.35
14	af	101	BCL	MG-NA	4.89	2.17	2.06
14	ao	102	BCL	MG-NA	4.89	2.17	2.06
14	ap	1001	BCL	MG-NA	4.89	2.17	2.06
14	ai	101	BCL	C1B-NB	4.89	1.39	1.35
14	AN	102	BCL	MG-NA	4.89	2.17	2.06
14	bc	102	BCL	C1B-NB	4.89	1.39	1.35
14	AV	103	BCL	MG-NA	4.89	2.17	2.06
14	AX	102	BCL	MG-NA	4.88	2.17	2.06
14	ae	102	BCL	MG-NA	4.88	2.17	2.06
14	ap	1001	BCL	C1B-NB	4.88	1.39	1.35
16	bl	102	V7N	C14-C13	4.88	1.42	1.35
14	bi	104	BCL	MG-NA	4.88	2.17	2.06
14	ac	1001	BCL	MG-NA	4.88	2.17	2.06
16	AE	1005	V7N	C14-C13	4.87	1.42	1.35
14	an	1001	BCL	C1B-NB	4.87	1.39	1.35
16	bc	101	V7N	C14-C13	4.86	1.42	1.35
14	AQ	101	BCL	MG-NA	4.86	2.17	2.06
14	bn	103	BCL	C1B-NB	4.86	1.39	1.35
14	ae	102	BCL	C1B-NB	4.86	1.39	1.35
14	BX	1002	BCL	MG-NA	4.85	2.17	2.06
14	L	1002	BCL	C1B-NB	4.85	1.39	1.35
14	BG	1004	BCL	C1B-NB	4.85	1.39	1.35
14	AU	103	BCL	MG-NA	4.85	2.17	2.06
14	ag	1001	BCL	C1B-NB	4.85	1.39	1.35
14	AF	1001	BCL	C1B-NB	4.85	1.39	1.35
14	ag	1001	BCL	MG-NA	4.85	2.17	2.06
16	bf	101	V7N	C14-C13	4.85	1.42	1.35
16	BA	101	V7N	C14-C13	4.84	1.42	1.35
14	AS	102	BCL	MG-NA	4.84	2.17	2.06
16	BE	101	V7N	C14-C13	4.84	1.42	1.35
16	BQ	1001	V7N	C14-C13	4.84	1.42	1.35
16	bd	101	V7N	C14-C13	4.84	1.42	1.35
14	bl	104	BCL	C1B-NB	4.84	1.39	1.35
14	BA	103	BCL	MG-NA	4.84	2.17	2.06
14	AH	101	BCL	MG-NA	4.84	2.17	2.06
14	AT	101	BCL	C1B-NB	4.83	1.39	1.35
14	af	101	BCL	C1B-NB	4.83	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	AG	102	BCL	C1B-NB	4.83	1.39	1.35
14	AK	101	BCL	MG-NA	4.83	2.17	2.06
14	AB	1002	BCL	C1B-NB	4.83	1.39	1.35
14	AO	1002	BCL	C1B-NB	4.83	1.39	1.35
14	L	1010	BCL	C1B-NB	4.83	1.39	1.35
14	M	408	BCL	C1B-NB	4.83	1.39	1.35
14	ba	103	BCL	MG-NA	4.83	2.17	2.06
14	BU	1004	BCL	C1B-NB	4.83	1.39	1.35
14	bn	103	BCL	MG-NA	4.83	2.17	2.06
16	bj	101	V7N	C14-C13	4.83	1.42	1.35
14	am	1001	BCL	MG-NA	4.82	2.17	2.06
16	BR	1001	V7N	C14-C13	4.82	1.42	1.35
16	bg	101	V7N	C14-C13	4.82	1.42	1.35
14	bk	102	BCL	C1B-NB	4.82	1.39	1.35
14	ai	101	BCL	MG-NA	4.82	2.17	2.06
14	AN	102	BCL	C1B-NB	4.81	1.39	1.35
14	AV	102	BCL	C1B-NB	4.81	1.39	1.35
14	BO	1004	BCL	MG-NA	4.81	2.17	2.06
14	AI	103	BCL	MG-NA	4.81	2.17	2.06
14	BD	105	BCL	MG-NA	4.81	2.17	2.06
14	BK	1006	BCL	MG-NA	4.81	2.17	2.06
14	BE	104	BCL	MG-NA	4.81	2.17	2.06
14	BL	1003	BCL	MG-NA	4.81	2.17	2.06
14	BH	1005	BCL	MG-NA	4.80	2.17	2.06
14	BV	1005	BCL	MG-NA	4.80	2.17	2.06
14	AP	102	BCL	C1B-NB	4.80	1.39	1.35
14	AR	102	BCL	C1B-NB	4.80	1.39	1.35
14	bj	103	BCL	C1B-NB	4.80	1.39	1.35
14	bc	102	BCL	MG-NA	4.80	2.17	2.06
14	AE	1001	BCL	C1B-NB	4.80	1.39	1.35
14	AA	1001	BCL	C1B-NB	4.79	1.39	1.35
16	bp	101	V7N	C17-C18	4.79	1.42	1.35
14	AC	102	BCL	C1B-NB	4.79	1.39	1.35
14	M	405	BCL	MG-NA	4.79	2.17	2.06
14	AS	103	BCL	C1B-NB	4.79	1.39	1.35
14	AK	102	BCL	C1B-NB	4.79	1.39	1.35
14	bp	102	BCL	C1B-NB	4.79	1.39	1.35
14	AM	102	BCL	C1B-NB	4.79	1.39	1.35
14	AU	102	BCL	C1B-NB	4.79	1.39	1.35
14	an	1001	BCL	MG-NA	4.79	2.17	2.06
14	AQ	102	BCL	C1B-NB	4.79	1.39	1.35
14	BM	1002	BCL	C1B-NB	4.79	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	AU	103	BCL	C1B-NB	4.78	1.39	1.35
14	BI	1003	BCL	MG-NA	4.78	2.17	2.06
14	BC	104	BCL	MG-NA	4.78	2.17	2.06
14	AH	103	BCL	C1B-NB	4.78	1.39	1.35
14	ac	1001	BCL	C1B-NB	4.78	1.39	1.35
14	AL	103	BCL	C1B-NB	4.78	1.39	1.35
14	AW	101	BCL	C1B-NB	4.78	1.39	1.35
14	BN	103	BCL	O2A-CGA	-4.78	1.19	1.33
14	BW	1003	BCL	MG-NA	4.78	2.17	2.06
14	aj	103	BCL	C1B-NB	4.77	1.39	1.35
16	bm	101	V7N	C17-C18	4.77	1.42	1.35
14	BT	103	BCL	MG-NA	4.77	2.17	2.06
14	ba	103	BCL	C1B-NB	4.77	1.39	1.35
14	AB	1001	BCL	C1B-NB	4.77	1.39	1.35
16	bh	102	V7N	C14-C13	4.76	1.42	1.35
14	bd	102	BCL	MG-NA	4.76	2.17	2.06
16	BH	1001	V7N	C14-C13	4.76	1.42	1.35
14	BI	1003	BCL	C1B-NB	4.76	1.39	1.35
14	bi	104	BCL	C1B-NB	4.76	1.39	1.35
14	BJ	1002	BCL	MG-NA	4.76	2.17	2.06
14	ao	102	BCL	C1B-NB	4.76	1.39	1.35
14	aj	103	BCL	MG-NA	4.76	2.17	2.06
14	AJ	101	BCL	C1B-NB	4.76	1.39	1.35
14	AX	103	BCL	C1B-NB	4.76	1.39	1.35
14	am	1001	BCL	C1B-NB	4.76	1.39	1.35
14	AM	101	BCL	C1B-NB	4.75	1.39	1.35
14	bb	104	BCL	C1B-NB	4.75	1.39	1.35
14	AE	1003	BCL	MG-NA	4.75	2.17	2.06
14	bh	105	BCL	C1B-NB	4.75	1.39	1.35
16	bo	102	V7N	C17-C18	4.75	1.42	1.35
14	BT	103	BCL	C1B-NB	4.75	1.39	1.35
16	BU	1001	V7N	C17-C18	4.75	1.42	1.35
14	bl	104	BCL	MG-NA	4.74	2.17	2.06
14	al	1001	BCL	C1B-NB	4.74	1.39	1.35
14	BN	103	BCL	MG-NA	4.74	2.17	2.06
14	AR	101	BCL	C1B-NB	4.74	1.39	1.35
16	bn	102	V7N	C17-C18	4.74	1.42	1.35
16	BS	1001	V7N	C14-C13	4.74	1.42	1.35
14	BD	105	BCL	C1B-NB	4.74	1.39	1.35
14	be	105	BCL	MG-NA	4.74	2.17	2.06
14	bf	103	BCL	MG-NA	4.74	2.17	2.06
14	BA	103	BCL	C1B-NB	4.73	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	bg	105	BCL	C1B-NB	4.73	1.39	1.35
14	BB	103	BCL	MG-NA	4.73	2.17	2.06
14	bb	104	BCL	MG-NA	4.73	2.17	2.06
14	bk	102	BCL	MG-NA	4.73	2.17	2.06
14	BR	1004	BCL	C1B-NB	4.73	1.39	1.35
14	bo	103	BCL	C1B-NB	4.72	1.39	1.35
14	BM	1002	BCL	MG-NA	4.72	2.17	2.06
14	BS	1003	BCL	MG-NA	4.72	2.17	2.06
14	BF	102	BCL	MG-NA	4.72	2.17	2.06
16	BW	1001	V7N	C14-C13	4.72	1.42	1.35
14	BW	1003	BCL	C1B-NB	4.72	1.39	1.35
14	ak	1001	BCL	C1B-NB	4.71	1.39	1.35
16	BO	1001	V7N	C17-C18	4.71	1.42	1.35
14	BB	103	BCL	C1B-NB	4.71	1.39	1.35
14	BQ	1003	BCL	C1B-NB	4.71	1.39	1.35
14	BX	1002	BCL	C1B-NB	4.70	1.39	1.35
16	bd	101	V7N	C17-C18	4.70	1.42	1.35
16	BK	1001	V7N	C14-C13	4.70	1.42	1.35
16	AS	105	V7N	C14-C13	4.69	1.42	1.35
14	BQ	1003	BCL	MG-NA	4.69	2.17	2.06
14	bm	104	BCL	C1B-NB	4.69	1.39	1.35
14	AA	1002	BCL	MG-NA	4.69	2.17	2.06
14	AG	101	BCL	MG-NA	4.69	2.17	2.06
16	BB	101	V7N	C14-C13	4.69	1.42	1.35
14	bg	105	BCL	MG-NA	4.69	2.17	2.06
14	AD	102	BCL	C1B-NB	4.69	1.39	1.35
14	BS	1003	BCL	C1B-NB	4.69	1.39	1.35
14	L	1010	BCL	MG-NA	4.68	2.17	2.06
14	BP	1005	BCL	C1B-NB	4.68	1.39	1.35
14	L	1002	BCL	MG-NA	4.68	2.17	2.06
16	BI	1001	V7N	C14-C13	4.68	1.42	1.35
14	BF	102	BCL	C1B-NB	4.68	1.39	1.35
14	AC	103	BCL	MG-NA	4.68	2.17	2.06
14	BC	104	BCL	C1B-NB	4.67	1.39	1.35
14	BN	103	BCL	C1B-NB	4.67	1.39	1.35
16	ba	101	V7N	C17-C18	4.67	1.42	1.35
14	AN	104	BCL	MG-NA	4.67	2.17	2.06
14	BO	1004	BCL	C1B-NB	4.67	1.39	1.35
14	BH	1005	BCL	C1B-NB	4.67	1.39	1.35
16	BV	1001	V7N	C14-C13	4.67	1.42	1.35
14	bo	103	BCL	MG-NA	4.66	2.17	2.06
14	BE	104	BCL	C1B-NB	4.66	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
28	ai	102	UYH	O8-C28	4.66	1.46	1.33
16	BC	101	V7N	C17-C18	4.66	1.42	1.35
14	BK	1006	BCL	C1B-NB	4.65	1.39	1.35
14	bm	104	BCL	MG-NA	4.65	2.17	2.06
16	bf	101	V7N	C17-C18	4.65	1.41	1.35
16	BD	101	V7N	C14-C13	4.65	1.41	1.35
14	BG	1004	BCL	MG-NA	4.65	2.17	2.06
14	bj	103	BCL	MG-NA	4.64	2.17	2.06
14	BJ	1002	BCL	C1B-NB	4.64	1.39	1.35
14	M	408	BCL	MG-NA	4.64	2.17	2.06
14	M	405	BCL	C1B-NB	4.63	1.39	1.35
14	BP	1005	BCL	MG-NA	4.63	2.17	2.06
14	AI	102	BCL	C1B-NB	4.63	1.39	1.35
14	BV	1005	BCL	C1B-NB	4.62	1.39	1.35
16	bb	101	V7N	C17-C18	4.62	1.41	1.35
16	bi	101	V7N	C17-C18	4.62	1.41	1.35
16	AO	1001	V7N	C14-C13	4.61	1.41	1.35
16	bl	102	V7N	C17-C18	4.61	1.41	1.35
16	BM	1001	V7N	C14-C13	4.60	1.41	1.35
16	BP	1001	V7N	C14-C13	4.60	1.41	1.35
14	BR	1004	BCL	MG-NA	4.60	2.17	2.06
16	BA	101	V7N	C17-C18	4.60	1.41	1.35
14	BL	1003	BCL	C1B-NB	4.59	1.39	1.35
16	BJ	1001	V7N	C14-C13	4.59	1.41	1.35
16	BL	1001	V7N	C14-C13	4.58	1.41	1.35
16	bc	101	V7N	C17-C18	4.58	1.41	1.35
14	BU	1004	BCL	MG-NA	4.58	2.17	2.06
16	bk	101	V7N	C17-C18	4.58	1.41	1.35
16	BH	1001	V7N	C17-C18	4.57	1.41	1.35
16	BG	1001	V7N	C14-C13	4.55	1.41	1.35
16	BE	101	V7N	C17-C18	4.54	1.41	1.35
16	BR	1001	V7N	C17-C18	4.54	1.41	1.35
16	bh	102	V7N	C17-C18	4.54	1.41	1.35
16	BX	1001	V7N	C14-C13	4.53	1.41	1.35
16	AS	105	V7N	C17-C18	4.52	1.41	1.35
16	BQ	1001	V7N	C17-C18	4.52	1.41	1.35
16	bg	101	V7N	C17-C18	4.52	1.41	1.35
16	be	101	V7N	C14-C13	4.51	1.41	1.35
28	ai	102	UYH	O7-C10	4.51	1.47	1.34
16	BS	1001	V7N	C17-C18	4.50	1.41	1.35
16	bj	101	V7N	C17-C18	4.49	1.41	1.35
16	bn	102	V7N	C21-C22	4.48	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	BW	1001	V7N	C17-C18	4.47	1.41	1.35
16	bo	102	V7N	C21-C22	4.46	1.38	1.34
16	BU	1001	V7N	C6-C5	4.45	1.41	1.35
16	bp	101	V7N	C21-C22	4.43	1.38	1.34
16	BI	1001	V7N	C17-C18	4.40	1.41	1.35
16	AE	1005	V7N	C17-C18	4.40	1.41	1.35
16	BB	101	V7N	C17-C18	4.40	1.41	1.35
16	BV	1001	V7N	C17-C18	4.38	1.41	1.35
16	BK	1001	V7N	C17-C18	4.38	1.41	1.35
16	BO	1001	V7N	C21-C22	4.38	1.38	1.34
16	bm	101	V7N	C21-C22	4.37	1.38	1.34
16	BP	1001	V7N	C17-C18	4.37	1.41	1.35
14	AB	1002	BCL	MG-NA	4.37	2.16	2.06
16	BG	1001	V7N	C17-C18	4.36	1.41	1.35
16	BX	1001	V7N	C17-C18	4.35	1.41	1.35
16	bd	101	V7N	C21-C22	4.34	1.38	1.34
16	BD	101	V7N	C17-C18	4.33	1.41	1.35
16	bi	101	V7N	C21-C22	4.32	1.38	1.34
16	BU	1001	V7N	C21-C22	4.31	1.38	1.34
16	BL	1001	V7N	C17-C18	4.30	1.41	1.35
16	AO	1001	V7N	C17-C18	4.29	1.41	1.35
16	be	101	V7N	C17-C18	4.28	1.41	1.35
16	BM	1001	V7N	C17-C18	4.26	1.41	1.35
16	BC	101	V7N	C21-C22	4.25	1.38	1.34
16	ba	101	V7N	C21-C22	4.23	1.38	1.34
16	BJ	1001	V7N	C17-C18	4.23	1.41	1.35
16	bh	102	V7N	C21-C22	4.17	1.38	1.34
16	bc	101	V7N	C21-C22	4.16	1.38	1.34
16	bk	101	V7N	C21-C22	4.15	1.38	1.34
16	BR	1001	V7N	C21-C22	4.13	1.38	1.34
16	bb	101	V7N	C21-C22	4.12	1.38	1.34
16	BQ	1001	V7N	C21-C22	4.12	1.38	1.34
16	bf	101	V7N	C21-C22	4.12	1.38	1.34
16	bm	101	V7N	C6-C5	4.11	1.41	1.35
16	AS	105	V7N	C21-C22	4.11	1.38	1.34
16	BA	101	V7N	C21-C22	4.11	1.38	1.34
16	bl	102	V7N	C21-C22	4.10	1.38	1.34
16	bg	101	V7N	C21-C22	4.06	1.38	1.34
16	BK	1001	V7N	C21-C22	4.05	1.38	1.34
16	bj	101	V7N	C21-C22	4.04	1.38	1.34
16	AE	1005	V7N	C21-C22	4.03	1.38	1.34
16	BS	1001	V7N	C21-C22	4.02	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	BH	1001	V7N	C21-C22	4.02	1.38	1.34
16	BE	101	V7N	C21-C22	4.02	1.38	1.34
16	BW	1001	V7N	C21-C22	3.97	1.38	1.34
16	BI	1001	V7N	C21-C22	3.93	1.38	1.34
16	BV	1001	V7N	C21-C22	3.92	1.38	1.34
16	BB	101	V7N	C21-C22	3.92	1.38	1.34
16	BL	1001	V7N	C21-C22	3.92	1.38	1.34
16	BP	1001	V7N	C21-C22	3.90	1.38	1.34
16	ba	101	V7N	C6-C5	3.89	1.40	1.35
16	BX	1001	V7N	C21-C22	3.89	1.38	1.34
16	bo	102	V7N	C6-C5	3.88	1.40	1.35
25	M	406	BPH	CBD-CGD	-3.88	1.47	1.52
16	BJ	1001	V7N	C21-C22	3.87	1.38	1.34
16	bn	102	V7N	C6-C5	3.87	1.40	1.35
14	AC	101	BCL	MG-NC	3.87	2.15	2.06
16	be	101	V7N	C21-C22	3.86	1.38	1.34
16	BD	101	V7N	C21-C22	3.84	1.38	1.34
25	L	1009	BPH	CBD-CGD	-3.83	1.47	1.52
16	bj	101	V7N	C6-C5	3.83	1.40	1.35
16	AO	1001	V7N	C21-C22	3.81	1.38	1.34
16	BO	1001	V7N	C6-C5	3.81	1.40	1.35
16	BG	1001	V7N	C21-C22	3.79	1.38	1.34
14	AE	1004	BCL	MG-NC	3.78	2.15	2.06
16	bd	101	V7N	C6-C5	3.77	1.40	1.35
16	bi	101	V7N	C6-C5	3.77	1.40	1.35
20	H1	101	0V9	P-O2P	-3.77	1.37	1.50
16	BM	1001	V7N	C21-C22	3.76	1.38	1.34
20	bb	103	0V9	P-O2P	-3.75	1.37	1.50
16	BE	101	V7N	C6-C5	3.75	1.40	1.35
16	bf	101	V7N	C6-C5	3.75	1.40	1.35
16	bb	101	V7N	C6-C5	3.74	1.40	1.35
20	bk	103	0V9	P-O2P	-3.73	1.37	1.50
20	bn	104	0V9	P-O2P	-3.73	1.37	1.50
28	ai	102	UYH	C4-C5	3.73	1.60	1.53
20	bc	103	0V9	P-O2P	-3.73	1.37	1.50
16	bp	101	V7N	C6-C5	3.72	1.40	1.35
16	BR	1001	V7N	C6-C5	3.71	1.40	1.35
20	C1	1001	0V9	P-O2P	-3.71	1.37	1.50
20	bh	103	0V9	P-O2P	-3.71	1.37	1.50
20	bo	104	0V9	P-O2P	-3.70	1.37	1.50
20	bj	104	0V9	P-O2P	-3.70	1.37	1.50
20	aj	101	0V9	P-O2P	-3.69	1.37	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	bg	104	0V9	P-O2P	-3.69	1.37	1.50
20	bi	103	0V9	P-O2P	-3.69	1.37	1.50
20	bm	102	0V9	P-O2P	-3.68	1.37	1.50
20	ba	102	0V9	P-O2P	-3.68	1.37	1.50
20	bk	104	0V9	P-O2P	-3.68	1.37	1.50
16	bk	101	V7N	C6-C5	3.68	1.40	1.35
16	BC	101	V7N	C6-C5	3.67	1.40	1.35
16	BA	101	V7N	C6-C5	3.67	1.40	1.35
20	bl	103	0V9	P-O2P	-3.67	1.37	1.50
20	be	102	0V9	P-O2P	-3.67	1.37	1.50
20	bp	103	0V9	P-O2P	-3.66	1.37	1.50
20	be	103	0V9	P-O2P	-3.66	1.37	1.50
16	BH	1001	V7N	C6-C5	3.65	1.40	1.35
20	bg	102	0V9	P-O2P	-3.65	1.38	1.50
16	BM	1001	V7N	C6-C5	3.64	1.40	1.35
16	BW	1001	V7N	C6-C5	3.63	1.40	1.35
16	AS	105	V7N	C6-C5	3.63	1.40	1.35
16	BK	1001	V7N	C6-C5	3.63	1.40	1.35
16	BQ	1001	V7N	C6-C5	3.63	1.40	1.35
16	bg	101	V7N	C6-C5	3.63	1.40	1.35
16	BD	101	V7N	C6-C5	3.61	1.40	1.35
14	AV	103	BCL	MG-NC	3.61	2.14	2.06
16	AE	1005	V7N	C6-C5	3.60	1.40	1.35
16	bl	102	V7N	C6-C5	3.59	1.40	1.35
14	AL	101	BCL	MG-NC	3.59	2.14	2.06
16	bc	101	V7N	C6-C5	3.58	1.40	1.35
14	AR	102	BCL	MG-NC	3.58	2.14	2.06
18	M	409	V75	O2-C2	-3.57	1.40	1.46
16	BX	1001	V7N	C6-C5	3.57	1.40	1.35
16	BP	1001	V7N	C6-C5	3.56	1.40	1.35
14	AX	103	BCL	MG-NC	3.55	2.14	2.06
16	be	101	V7N	C6-C5	3.55	1.40	1.35
14	AB	1001	BCL	MG-NC	3.55	2.14	2.06
14	AA	1001	BCL	MG-NC	3.54	2.14	2.06
14	AI	103	BCL	MG-NC	3.54	2.14	2.06
16	BI	1001	V7N	C6-C5	3.54	1.40	1.35
16	AO	1001	V7N	C6-C5	3.53	1.40	1.35
14	AM	101	BCL	MG-NC	3.53	2.14	2.06
14	AD	102	BCL	MG-NC	3.53	2.14	2.06
14	bn	103	BCL	MG-NC	3.52	2.14	2.06
16	BJ	1001	V7N	C6-C5	3.52	1.40	1.35
14	AG	102	BCL	MG-NC	3.52	2.14	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	bh	102	V7N	C6-C5	3.52	1.40	1.35
14	bp	102	BCL	MG-NC	3.52	2.14	2.06
14	AV	102	BCL	MG-NC	3.51	2.14	2.06
14	AJ	101	BCL	MG-NC	3.51	2.14	2.06
16	BV	1001	V7N	C6-C5	3.51	1.40	1.35
14	AN	101	BCL	MG-NC	3.51	2.14	2.06
14	AN	104	BCL	MG-NC	3.50	2.14	2.06
14	AJ	102	BCL	MG-NC	3.50	2.14	2.06
14	AC	102	BCL	MG-NC	3.49	2.14	2.06
14	AX	102	BCL	MG-NC	3.49	2.14	2.06
14	AH	101	BCL	MG-NC	3.49	2.14	2.06
16	BG	1001	V7N	C6-C5	3.49	1.40	1.35
14	AP	102	BCL	MG-NC	3.49	2.14	2.06
16	BB	101	V7N	C6-C5	3.48	1.40	1.35
16	BS	1001	V7N	C6-C5	3.47	1.40	1.35
16	BL	1001	V7N	C6-C5	3.46	1.40	1.35
14	ad	1001	BCL	MG-NC	3.46	2.14	2.06
14	AM	102	BCL	MG-NC	3.45	2.14	2.06
14	AG	101	BCL	MG-NC	3.45	2.14	2.06
14	AE	1001	BCL	MG-NC	3.45	2.14	2.06
14	bh	105	BCL	MG-NC	3.45	2.14	2.06
14	AW	101	BCL	MG-NC	3.44	2.14	2.06
14	AU	102	BCL	MG-NC	3.44	2.14	2.06
14	AQ	102	BCL	MG-NC	3.43	2.14	2.06
14	AS	103	BCL	MG-NC	3.43	2.14	2.06
14	bl	104	BCL	MG-NC	3.42	2.14	2.06
14	AQ	101	BCL	MG-NC	3.42	2.14	2.06
14	al	1001	BCL	MG-NC	3.42	2.14	2.06
14	AK	102	BCL	MG-NC	3.42	2.14	2.06
14	AE	1003	BCL	MG-NC	3.41	2.14	2.06
14	AL	103	BCL	MG-NC	3.41	2.14	2.06
14	ba	103	BCL	MG-NC	3.41	2.14	2.06
14	ah	1001	BCL	MG-NC	3.41	2.14	2.06
14	AS	104	BCL	MG-NC	3.40	2.14	2.06
14	ab	102	BCL	MG-NC	3.40	2.14	2.06
14	L	1010	BCL	MG-NC	3.40	2.14	2.06
14	AT	101	BCL	MG-NC	3.39	2.14	2.06
14	AK	101	BCL	MG-NC	3.39	2.14	2.06
14	bd	102	BCL	MG-NC	3.39	2.14	2.06
14	AF	1001	BCL	MG-NC	3.39	2.14	2.06
14	AP	103	BCL	MG-NC	3.38	2.14	2.06
14	bk	102	BCL	MG-NC	3.38	2.14	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	be	105	BCL	MG-NC	3.38	2.14	2.06
14	bc	102	BCL	MG-NC	3.38	2.14	2.06
14	BE	104	BCL	MG-NC	3.37	2.14	2.06
14	ak	1001	BCL	MG-NC	3.37	2.14	2.06
14	bb	104	BCL	MG-NC	3.37	2.14	2.06
14	aa	1001	BCL	MG-NC	3.37	2.14	2.06
14	BW	1003	BCL	MG-NC	3.37	2.14	2.06
14	bf	103	BCL	MG-NC	3.37	2.14	2.06
14	bi	104	BCL	MG-NC	3.36	2.14	2.06
14	AN	102	BCL	MG-NC	3.36	2.14	2.06
18	C	405	V75	O2-C2	-3.36	1.40	1.46
14	bj	103	BCL	MG-NC	3.36	2.14	2.06
14	AV	101	BCL	MG-NC	3.35	2.14	2.06
14	af	101	BCL	MG-NC	3.35	2.14	2.06
14	AA	1002	BCL	MG-NC	3.35	2.14	2.06
14	AI	102	BCL	MG-NC	3.34	2.14	2.06
14	ae	102	BCL	MG-NC	3.34	2.14	2.06
14	ao	102	BCL	MG-NC	3.34	2.14	2.06
14	AH	103	BCL	MG-NC	3.33	2.14	2.06
14	BT	103	BCL	MG-NC	3.33	2.14	2.06
14	BL	1003	BCL	MG-NC	3.33	2.14	2.06
14	BA	103	BCL	MG-NC	3.32	2.14	2.06
14	AR	101	BCL	MG-NC	3.31	2.14	2.06
14	BK	1006	BCL	MG-NC	3.31	2.14	2.06
14	ap	1001	BCL	MG-NC	3.31	2.14	2.06
14	bm	104	BCL	MG-NC	3.30	2.14	2.06
14	bg	105	BCL	MG-NC	3.30	2.14	2.06
14	am	1001	BCL	MG-NC	3.30	2.14	2.06
14	BV	1005	BCL	MG-NC	3.30	2.14	2.06
14	BI	1003	BCL	MG-NC	3.30	2.14	2.06
14	AO	1002	BCL	MG-NC	3.30	2.14	2.06
28	ai	102	UYH	C3-C4	3.30	1.60	1.52
14	BD	105	BCL	MG-NC	3.30	2.14	2.06
14	BC	104	BCL	MG-NC	3.30	2.14	2.06
14	BB	103	BCL	MG-NC	3.29	2.14	2.06
14	BX	1002	BCL	MG-NC	3.29	2.14	2.06
14	BG	1004	BCL	MG-NC	3.29	2.14	2.06
14	AC	103	BCL	MG-NC	3.29	2.14	2.06
14	M	408	BCL	MG-NC	3.28	2.14	2.06
14	AS	102	BCL	MG-NC	3.28	2.14	2.06
14	an	1001	BCL	MG-NC	3.28	2.14	2.06
14	ac	1001	BCL	MG-NC	3.28	2.14	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	BQ	1003	BCL	MG-NC	3.28	2.14	2.06
14	BU	1004	BCL	MG-NC	3.27	2.14	2.06
14	ai	101	BCL	MG-NC	3.27	2.14	2.06
14	bo	103	BCL	MG-NC	3.25	2.14	2.06
14	BO	1004	BCL	MG-NC	3.25	2.14	2.06
14	BH	1005	BCL	MG-NC	3.25	2.14	2.06
14	BJ	1002	BCL	MG-NC	3.25	2.14	2.06
28	ai	102	UYH	O1-C1	3.24	1.45	1.40
14	BM	1002	BCL	MG-NC	3.24	2.14	2.06
14	aj	103	BCL	MG-NC	3.24	2.14	2.06
14	ag	1001	BCL	MG-NC	3.23	2.14	2.06
14	AU	103	BCL	MG-NC	3.23	2.13	2.06
14	AB	1002	BCL	MG-NC	3.22	2.13	2.06
14	BN	103	BCL	MG-NC	3.22	2.13	2.06
14	BS	1003	BCL	MG-NC	3.22	2.13	2.06
14	BP	1005	BCL	MG-NC	3.20	2.13	2.06
28	ai	102	UYH	C29-C28	3.20	1.60	1.50
14	BF	102	BCL	MG-NC	3.19	2.13	2.06
14	BR	1004	BCL	MG-NC	3.17	2.13	2.06
14	L	1002	BCL	MG-NC	3.17	2.13	2.06
28	ai	102	UYH	C11-C10	3.13	1.59	1.50
18	M	409	V75	O3-C3	-3.09	1.40	1.44
28	ai	102	UYH	C3-C2	3.05	1.60	1.52
18	C	405	V75	O3-C3	-3.04	1.40	1.44
14	M	405	BCL	MG-NC	3.04	2.13	2.06
28	ai	102	UYH	C9-C8	3.03	1.60	1.50
28	ai	102	UYH	C7-C8	2.83	1.59	1.50
14	AB	1002	BCL	CHD-C1D	2.82	1.43	1.38
15	AE	1002	LMT	O3'-C3'	-2.72	1.36	1.43
15	AJ	104	LMT	O3'-C3'	-2.71	1.36	1.43
15	bb	102	LMT	O3'-C3'	-2.70	1.36	1.43
15	BX	1004	LMT	O3'-C3'	-2.69	1.36	1.43
15	BH	1002	LMT	O3'-C3'	-2.69	1.36	1.43
14	AN	104	BCL	CHD-C1D	2.69	1.43	1.38
15	BA	104	LMT	O3'-C3'	-2.68	1.36	1.43
15	BN	101	LMT	O3'-C3'	-2.68	1.36	1.43
15	M	403	LMT	O3'-C3'	-2.68	1.36	1.43
15	bf	102	LMT	O3'-C3'	-2.67	1.36	1.43
15	BU	1003	LMT	O3'-C3'	-2.67	1.36	1.43
15	AA	1003	LMT	O3'-C3'	-2.67	1.36	1.43
15	AT	102	LMT	O3'-C3'	-2.67	1.36	1.43
15	BK	1005	LMT	O3'-C3'	-2.67	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	AC	101	BCL	CHD-C1D	2.67	1.43	1.38
15	BH	1003	LMT	O3'-C3'	-2.66	1.36	1.43
14	AG	101	BCL	CHD-C1D	2.66	1.43	1.38
14	AC	103	BCL	CHD-C1D	2.66	1.43	1.38
15	BW	1005	LMT	O3'-C3'	-2.66	1.36	1.43
15	bj	102	LMT	O3'-C3'	-2.65	1.36	1.43
15	bd	103	LMT	O3'-C3'	-2.65	1.36	1.43
15	BA	105	LMT	O3'-C3'	-2.65	1.36	1.43
15	BB	104	LMT	O3'-C3'	-2.65	1.36	1.43
15	AH	104	LMT	O3'-C3'	-2.65	1.36	1.43
15	BQ	1004	LMT	O3'-C3'	-2.65	1.36	1.43
15	BI	1005	LMT	O3'-C3'	-2.64	1.36	1.43
15	BB	102	LMT	O3'-C3'	-2.64	1.36	1.43
15	BI	1002	LMT	O3'-C3'	-2.64	1.36	1.43
15	bn	101	LMT	O3'-C3'	-2.64	1.36	1.43
15	BK	1002	LMT	O3'-C3'	-2.64	1.36	1.43
15	bc	104	LMT	O3'-C3'	-2.63	1.36	1.43
15	BR	1002	LMT	O3'-C3'	-2.63	1.36	1.43
15	BV	1002	LMT	O3'-C3'	-2.63	1.36	1.43
15	BD	103	LMT	O3'-C3'	-2.63	1.36	1.43
15	BS	1005	LMT	O3'-C3'	-2.63	1.36	1.43
15	AD	103	LMT	O3'-C3'	-2.63	1.36	1.43
15	L	1005	LMT	O3'-C3'	-2.63	1.36	1.43
15	BJ	1003	LMT	O3'-C3'	-2.63	1.36	1.43
15	bl	105	LMT	O3'-C3'	-2.62	1.36	1.43
15	BP	1004	LMT	O3'-C3'	-2.62	1.36	1.43
15	BS	1002	LMT	O3'-C3'	-2.62	1.36	1.43
15	AU	101	LMT	O3'-C3'	-2.62	1.36	1.43
14	AU	103	BCL	CHD-C1D	2.62	1.43	1.38
15	AL	102	LMT	O3'-C3'	-2.62	1.36	1.43
15	BG	1003	LMT	O3'-C3'	-2.62	1.36	1.43
28	ai	102	UYH	C6-C5	2.62	1.60	1.51
15	L	1008	LMT	O3'-C3'	-2.62	1.36	1.43
15	BR	1005	LMT	O3'-C3'	-2.61	1.36	1.43
15	L	1007	LMT	O3'-C3'	-2.61	1.36	1.43
15	AI	101	LMT	O3'-C3'	-2.61	1.36	1.43
15	AS	101	LMT	O3'-C3'	-2.61	1.36	1.43
15	bo	105	LMT	O3'-C3'	-2.61	1.36	1.43
15	bh	104	LMT	O3'-C3'	-2.61	1.36	1.43
15	BL	1005	LMT	O3'-C3'	-2.61	1.36	1.43
15	BW	1002	LMT	O3'-C3'	-2.61	1.36	1.43
15	BJ	1004	LMT	O3'-C3'	-2.61	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	L	1003	LMT	O3'-C3'	-2.61	1.36	1.43
15	BN	105	LMT	O3'-C3'	-2.60	1.36	1.43
15	BV	1004	LMT	O3'-C3'	-2.60	1.36	1.43
15	BN	102	LMT	O3'-C3'	-2.60	1.36	1.43
15	BT	101	LMT	O3'-C3'	-2.60	1.36	1.43
15	ab	101	LMT	O3'-C3'	-2.60	1.36	1.43
15	BB	105	LMT	O3'-C3'	-2.60	1.36	1.43
15	BC	103	LMT	O3'-C3'	-2.60	1.36	1.43
15	AH	102	LMT	O3'-C3'	-2.60	1.36	1.43
15	BT	104	LMT	O3'-C3'	-2.60	1.36	1.43
15	BI	1004	LMT	O3'-C3'	-2.60	1.36	1.43
15	BP	1002	LMT	O3'-C3'	-2.60	1.36	1.43
15	AJ	103	LMT	O3'-C3'	-2.60	1.36	1.43
15	BD	104	LMT	O3'-C3'	-2.60	1.36	1.43
15	bn	105	LMT	O3'-C3'	-2.60	1.36	1.43
15	BS	1004	LMT	O3'-C3'	-2.59	1.36	1.43
14	am	1001	BCL	O1A-CGA	-2.59	1.14	1.22
15	AP	101	LMT	O3'-C3'	-2.59	1.36	1.43
15	BT	102	LMT	O3'-C3'	-2.59	1.36	1.43
15	AP	104	LMT	O3'-C3'	-2.59	1.36	1.43
15	BL	1002	LMT	O3'-C3'	-2.59	1.36	1.43
15	BO	1003	LMT	O3'-C3'	-2.59	1.36	1.43
15	BC	106	LMT	O3'-C3'	-2.59	1.36	1.43
15	BC	102	LMT	O3'-C3'	-2.59	1.36	1.43
15	BU	1002	LMT	O3'-C3'	-2.59	1.36	1.43
15	BD	102	LMT	O3'-C3'	-2.59	1.36	1.43
15	BQ	1005	LMT	O3'-C3'	-2.58	1.36	1.43
15	bi	102	LMT	O3'-C3'	-2.58	1.36	1.43
15	BG	1005	LMT	O3'-C3'	-2.58	1.36	1.43
15	L	1004	LMT	O3'-C3'	-2.58	1.36	1.43
15	BQ	1002	LMT	O3'-C3'	-2.58	1.36	1.43
15	L	1011	LMT	O3'-C3'	-2.58	1.36	1.43
15	bh	101	LMT	O3'-C3'	-2.58	1.36	1.43
15	BG	1002	LMT	O3'-C3'	-2.57	1.36	1.43
15	BK	1004	LMT	O3'-C3'	-2.57	1.36	1.43
15	bg	103	LMT	O3'-C3'	-2.57	1.36	1.43
15	bo	101	LMT	O3'-C3'	-2.57	1.36	1.43
15	BH	1004	LMT	O3'-C3'	-2.57	1.36	1.43
15	bm	105	LMT	O3'-C3'	-2.57	1.36	1.43
15	AN	103	LMT	O3'-C3'	-2.57	1.36	1.43
14	AP	103	BCL	CHD-C1D	2.57	1.43	1.38
15	AQ	103	LMT	O3'-C3'	-2.56	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	bm	103	LMT	O3'-C3'	-2.56	1.36	1.43
15	AA	1004	LMT	O3'-C3'	-2.56	1.36	1.43
15	AF	1002	LMT	O3'-C3'	-2.56	1.36	1.43
15	BV	1006	LMT	O3'-C3'	-2.56	1.36	1.43
15	AD	101	LMT	O3'-C3'	-2.56	1.37	1.43
15	BW	1004	LMT	O3'-C3'	-2.55	1.37	1.43
15	AC	104	LMT	O3'-C3'	-2.55	1.37	1.43
14	AS	102	BCL	CHD-C1D	2.55	1.43	1.38
15	BG	1006	LMT	O3'-C3'	-2.55	1.37	1.43
15	BF	103	LMT	O3'-C3'	-2.55	1.37	1.43
16	ba	101	V7N	C11-C12	2.55	1.41	1.34
15	BM	1004	LMT	O3'-C3'	-2.54	1.37	1.43
15	BX	1003	LMT	O3'-C3'	-2.54	1.37	1.43
15	BI	1006	LMT	O3'-C3'	-2.54	1.37	1.43
14	AI	103	BCL	CHD-C1D	2.54	1.43	1.38
15	BF	101	LMT	O3'-C3'	-2.54	1.37	1.43
15	BL	1004	LMT	O3'-C3'	-2.54	1.37	1.43
16	BU	1001	V7N	C11-C12	2.54	1.41	1.34
15	BM	1003	LMT	O3'-C3'	-2.54	1.37	1.43
15	BV	1003	LMT	O3'-C3'	-2.54	1.37	1.43
15	BP	1003	LMT	O3'-C3'	-2.54	1.37	1.43
14	AN	101	BCL	CHD-C1D	2.53	1.43	1.38
15	BE	103	LMT	O3'-C3'	-2.53	1.37	1.43
14	M	408	BCL	CHD-C1D	2.53	1.43	1.38
15	BO	1002	LMT	O3'-C3'	-2.53	1.37	1.43
15	BE	102	LMT	O3'-C3'	-2.52	1.37	1.43
16	bm	101	V7N	C11-C12	2.52	1.41	1.34
14	AH	101	BCL	CHD-C1D	2.52	1.43	1.38
15	BK	1003	LMT	O3'-C3'	-2.52	1.37	1.43
14	AE	1003	BCL	CHD-C1D	2.52	1.43	1.38
28	ai	102	UYH	C1-C2	2.52	1.59	1.52
15	AX	101	LMT	O3'-C3'	-2.51	1.37	1.43
15	BC	105	LMT	O3'-C3'	-2.51	1.37	1.43
15	BA	102	LMT	O3'-C3'	-2.51	1.37	1.43
16	bo	102	V7N	C11-C12	2.50	1.41	1.34
15	AU	101	LMT	O2'-C2'	-2.49	1.37	1.43
14	AX	102	BCL	CHD-C1D	2.49	1.43	1.38
15	BN	104	LMT	O3'-C3'	-2.49	1.37	1.43
15	be	104	LMT	O3'-C3'	-2.49	1.37	1.43
15	BS	1006	LMT	O3'-C3'	-2.48	1.37	1.43
15	bl	101	LMT	O3'-C3'	-2.48	1.37	1.43
15	BR	1003	LMT	O3'-C3'	-2.47	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	BN	101	LMT	O2'-C2'	-2.47	1.37	1.43
14	BN	103	BCL	O2A-C1	-2.47	1.39	1.46
14	AW	101	BCL	CHD-C1D	2.46	1.43	1.38
14	L	1002	BCL	CHD-C1D	2.46	1.43	1.38
15	BK	1002	LMT	O2'-C2'	-2.46	1.37	1.43
16	BO	1001	V7N	C11-C12	2.46	1.40	1.34
15	BD	103	LMT	O2'-C2'	-2.46	1.37	1.43
14	AS	104	BCL	CHD-C1D	2.45	1.43	1.38
15	AG	103	LMT	O2'-C2'	-2.45	1.37	1.43
14	AL	101	BCL	CHD-C1D	2.45	1.43	1.38
15	AG	103	LMT	O3'-C3'	-2.45	1.37	1.43
15	BH	1003	LMT	O2'-C2'	-2.45	1.37	1.43
16	bn	102	V7N	C11-C12	2.44	1.40	1.34
16	bd	101	V7N	C11-C12	2.44	1.40	1.34
14	AR	102	BCL	CHD-C1D	2.44	1.43	1.38
16	bf	101	V7N	C11-C12	2.44	1.40	1.34
14	AA	1002	BCL	CHD-C1D	2.44	1.43	1.38
16	bm	101	V7N	C7-C8	2.44	1.40	1.34
15	bn	105	LMT	O2'-C2'	-2.44	1.37	1.43
24	ag	1002	V7B	O8-C28	2.44	1.40	1.33
15	bl	101	LMT	O2B-C2B	-2.44	1.37	1.43
24	L	1006	V7B	O8-C28	2.43	1.40	1.33
24	ag	1002	V7B	O7-C8	-2.43	1.40	1.46
16	bi	101	V7N	C11-C12	2.42	1.40	1.34
15	AH	104	LMT	O3B-C3B	-2.42	1.37	1.43
14	AK	101	BCL	CHD-C1D	2.42	1.43	1.38
14	AR	102	BCL	C4B-NB	2.42	1.37	1.35
16	bp	101	V7N	C11-C12	2.41	1.40	1.34
14	BS	1003	BCL	CHD-C1D	2.41	1.43	1.38
14	BN	103	BCL	CHD-C1D	2.41	1.43	1.38
16	bk	101	V7N	C11-C12	2.41	1.40	1.34
16	bj	101	V7N	C11-C12	2.41	1.40	1.34
14	AO	1002	BCL	CHD-C1D	2.40	1.43	1.38
16	bb	101	V7N	C11-C12	2.40	1.40	1.34
14	BW	1003	BCL	CHD-C1D	2.40	1.43	1.38
14	AJ	102	BCL	CHD-C1D	2.40	1.43	1.38
15	BI	1004	LMT	O2'-C2'	-2.40	1.37	1.43
14	AI	102	BCL	CHD-C1D	2.40	1.43	1.38
15	bc	104	LMT	O2'-C2'	-2.40	1.37	1.43
15	AC	104	LMT	O2'-C2'	-2.40	1.37	1.43
14	AE	1004	BCL	CHD-C1D	2.39	1.43	1.38
14	AX	103	BCL	CHD-C1D	2.39	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	BO	1004	BCL	CHD-C1D	2.39	1.43	1.38
15	AA	1004	LMT	O2'-C2'	-2.39	1.37	1.43
14	AV	101	BCL	CHD-C1D	2.39	1.43	1.38
16	bl	102	V7N	C11-C12	2.39	1.40	1.34
14	AU	102	BCL	CHD-C1D	2.39	1.43	1.38
15	AJ	104	LMT	O3B-C3B	-2.39	1.37	1.43
16	BC	101	V7N	C11-C12	2.39	1.40	1.34
14	AC	102	BCL	CHD-C1D	2.39	1.43	1.38
15	BI	1002	LMT	O2'-C2'	-2.39	1.37	1.43
16	bc	101	V7N	C11-C12	2.39	1.40	1.34
14	BC	104	BCL	CHD-C1D	2.39	1.43	1.38
14	AQ	101	BCL	CHD-C1D	2.38	1.43	1.38
14	BB	103	BCL	CHD-C1D	2.38	1.43	1.38
14	ao	102	BCL	CHD-C1D	2.38	1.43	1.38
16	BA	101	V7N	C11-C12	2.38	1.40	1.34
16	BE	101	V7N	C11-C12	2.38	1.40	1.34
15	BG	1003	LMT	O2'-C2'	-2.38	1.37	1.43
14	AL	101	BCL	C1D-ND	2.38	1.40	1.37
15	L	1005	LMT	O2'-C2'	-2.38	1.37	1.43
24	L	1006	V7B	O7-C10	2.38	1.41	1.34
15	be	104	LMT	O2B-C2B	-2.38	1.37	1.43
14	AT	101	BCL	CHD-C1D	2.38	1.43	1.38
15	AP	104	LMT	O2'-C2'	-2.38	1.37	1.43
14	AU	103	BCL	C1D-ND	2.37	1.40	1.37
14	BK	1006	BCL	CHD-C1D	2.37	1.43	1.38
14	BA	103	BCL	CHD-C1D	2.37	1.43	1.38
14	BG	1004	BCL	CHD-C1D	2.37	1.43	1.38
14	BX	1002	BCL	CHD-C1D	2.37	1.43	1.38
16	AE	1005	V7N	C11-C12	2.36	1.40	1.34
14	AN	102	BCL	CHD-C1D	2.36	1.43	1.38
15	BD	104	LMT	O2'-C2'	-2.36	1.37	1.43
14	AM	102	BCL	CHD-C1D	2.36	1.43	1.38
16	bh	102	V7N	C11-C12	2.36	1.40	1.34
14	BR	1004	BCL	CHD-C1D	2.36	1.43	1.38
15	AE	1002	LMT	O2'-C2'	-2.36	1.37	1.43
14	BE	104	BCL	CHD-C1D	2.36	1.43	1.38
15	BK	1003	LMT	O3B-C3B	-2.36	1.37	1.43
15	bb	102	LMT	O2B-C2B	-2.36	1.37	1.43
14	BP	1005	BCL	CHD-C1D	2.36	1.43	1.38
14	AE	1003	BCL	C1D-ND	2.35	1.40	1.37
15	BA	105	LMT	O2'-C2'	-2.35	1.37	1.43
16	bg	101	V7N	C11-C12	2.35	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	BN	105	LMT	O2'-C2'	-2.35	1.37	1.43
15	AP	101	LMT	O2'-C2'	-2.35	1.37	1.43
14	AE	1001	BCL	CHD-C1D	2.35	1.42	1.38
15	BC	102	LMT	O3B-C3B	-2.35	1.37	1.43
15	AI	101	LMT	O3B-C3B	-2.35	1.37	1.43
16	BK	1001	V7N	C12-C13	-2.35	1.40	1.45
16	BW	1001	V7N	C11-C12	2.35	1.40	1.34
14	BM	1002	BCL	CHD-C1D	2.34	1.42	1.38
14	AD	102	BCL	CHD-C1D	2.34	1.42	1.38
15	BG	1006	LMT	O2'-C2'	-2.34	1.37	1.43
15	bn	101	LMT	O3B-C3B	-2.34	1.37	1.43
15	BT	101	LMT	O2'-C2'	-2.34	1.37	1.43
14	BD	105	BCL	CHD-C1D	2.34	1.42	1.38
15	BC	102	LMT	O2'-C2'	-2.34	1.37	1.43
16	BR	1001	V7N	C11-C12	2.34	1.40	1.34
15	M	403	LMT	O2'-C2'	-2.34	1.37	1.43
14	AH	103	BCL	CHD-C1D	2.34	1.42	1.38
15	BS	1006	LMT	O3B-C3B	-2.34	1.37	1.43
14	ap	1001	BCL	CHD-C1D	2.34	1.42	1.38
14	AR	101	BCL	CHD-C1D	2.34	1.42	1.38
15	BC	103	LMT	O2'-C2'	-2.33	1.37	1.43
15	BK	1003	LMT	O2'-C2'	-2.33	1.37	1.43
14	BJ	1002	BCL	CHD-C1D	2.33	1.42	1.38
16	be	101	V7N	C12-C13	-2.33	1.40	1.45
18	C	405	V75	O2-C2A	2.33	1.40	1.35
15	AJ	103	LMT	O2'-C2'	-2.33	1.37	1.43
15	BF	103	LMT	O2'-C2'	-2.33	1.37	1.43
15	BX	1004	LMT	O2'-C2'	-2.33	1.37	1.43
15	AE	1002	LMT	O2B-C2B	-2.33	1.37	1.43
16	BH	1001	V7N	C11-C12	2.33	1.40	1.34
16	BQ	1001	V7N	C11-C12	2.33	1.40	1.34
15	BA	104	LMT	O2'-C2'	-2.33	1.37	1.43
14	BI	1003	BCL	CHD-C1D	2.33	1.42	1.38
15	AH	102	LMT	O2'-C2'	-2.33	1.37	1.43
15	BR	1002	LMT	O2'-C2'	-2.33	1.37	1.43
16	AS	105	V7N	C11-C12	2.33	1.40	1.34
15	BV	1002	LMT	O2'-C2'	-2.33	1.37	1.43
15	BH	1002	LMT	O2'-C2'	-2.33	1.37	1.43
14	AN	101	BCL	C1D-ND	2.33	1.40	1.37
14	BH	1005	BCL	CHD-C1D	2.33	1.42	1.38
14	BU	1004	BCL	CHD-C1D	2.32	1.42	1.38
14	AL	103	BCL	CHD-C1D	2.32	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	AJ	103	LMT	O3B-C3B	-2.32	1.37	1.43
15	BV	1002	LMT	O3B-C3B	-2.32	1.37	1.43
15	BB	104	LMT	O3B-C3B	-2.32	1.37	1.43
15	bl	105	LMT	O2'-C2'	-2.32	1.37	1.43
16	BV	1001	V7N	C12-C13	-2.32	1.41	1.45
15	BJ	1004	LMT	O3B-C3B	-2.32	1.37	1.43
15	bh	104	LMT	O2B-C2B	-2.32	1.37	1.43
15	L	1007	LMT	O3B-C3B	-2.32	1.37	1.43
15	AP	101	LMT	O2B-C2B	-2.32	1.37	1.43
14	an	1001	BCL	CHD-C1D	2.32	1.42	1.38
15	AF	1002	LMT	O2'-C2'	-2.31	1.37	1.43
15	BT	104	LMT	O2'-C2'	-2.31	1.37	1.43
15	bm	103	LMT	O3B-C3B	-2.31	1.37	1.43
15	BV	1004	LMT	O2'-C2'	-2.31	1.37	1.43
14	BV	1005	BCL	CHD-C1D	2.31	1.42	1.38
16	BL	1001	V7N	C12-C13	-2.31	1.41	1.45
16	BP	1001	V7N	C12-C13	-2.31	1.41	1.45
15	BV	1004	LMT	O3B-C3B	-2.31	1.37	1.43
15	bn	105	LMT	O2B-C2B	-2.31	1.37	1.43
14	BL	1003	BCL	CHD-C1D	2.31	1.42	1.38
16	AO	1001	V7N	C11-C12	2.31	1.40	1.34
14	al	1001	BCL	CHD-C1D	2.31	1.42	1.38
15	bi	102	LMT	O2'-C2'	-2.31	1.37	1.43
24	L	1006	V7B	O7-C8	-2.31	1.40	1.46
15	BP	1004	LMT	O2'-C2'	-2.31	1.37	1.43
15	AL	102	LMT	O2'-C2'	-2.31	1.37	1.43
15	AD	103	LMT	O3B-C3B	-2.31	1.37	1.43
15	BS	1002	LMT	O3B-C3B	-2.31	1.37	1.43
14	AJ	101	BCL	CHD-C1D	2.31	1.42	1.38
16	BM	1001	V7N	C12-C13	-2.31	1.41	1.45
14	AH	101	BCL	C1D-ND	2.31	1.40	1.37
16	BS	1001	V7N	C11-C12	2.31	1.40	1.34
14	AP	102	BCL	CHD-C1D	2.31	1.42	1.38
14	AC	103	BCL	C1D-ND	2.31	1.40	1.37
14	BT	103	BCL	CHD-C1D	2.30	1.42	1.38
14	AE	1004	BCL	C1D-ND	2.30	1.40	1.37
16	ba	101	V7N	C7-C8	2.30	1.40	1.34
15	ab	101	LMT	O2'-C2'	-2.30	1.37	1.43
14	BF	102	BCL	CHD-C1D	2.30	1.42	1.38
15	BR	1003	LMT	O3B-C3B	-2.30	1.37	1.43
15	BS	1005	LMT	O2'-C2'	-2.30	1.37	1.43
16	be	101	V7N	C11-C12	2.30	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	BG	1005	LMT	O2'-C2'	-2.30	1.37	1.43
15	BB	102	LMT	O3B-C3B	-2.30	1.37	1.43
15	L	1003	LMT	O2'-C2'	-2.30	1.37	1.43
15	BO	1002	LMT	O3B-C3B	-2.30	1.37	1.43
14	AS	103	BCL	CHD-C1D	2.30	1.42	1.38
15	BI	1004	LMT	O3B-C3B	-2.30	1.37	1.43
15	BS	1002	LMT	O2'-C2'	-2.30	1.37	1.43
15	BW	1005	LMT	O3B-C3B	-2.30	1.37	1.43
15	AT	102	LMT	O2B-C2B	-2.30	1.37	1.43
15	bo	105	LMT	O3B-C3B	-2.30	1.37	1.43
15	AT	102	LMT	O3B-C3B	-2.30	1.37	1.43
15	L	1008	LMT	O2B-C2B	-2.30	1.37	1.43
16	bo	102	V7N	C7-C8	2.30	1.40	1.34
15	BP	1002	LMT	O2'-C2'	-2.30	1.37	1.43
15	BM	1003	LMT	O3B-C3B	-2.30	1.37	1.43
15	AH	102	LMT	O2B-C2B	-2.30	1.37	1.43
15	AP	101	LMT	O3B-C3B	-2.30	1.37	1.43
15	AS	101	LMT	O2'-C2'	-2.30	1.37	1.43
15	BL	1004	LMT	O2'-C2'	-2.30	1.37	1.43
16	BV	1001	V7N	C11-C12	2.30	1.40	1.34
16	BK	1001	V7N	C11-C12	2.29	1.40	1.34
15	AL	102	LMT	O2B-C2B	-2.29	1.37	1.43
15	bh	101	LMT	O2'-C2'	-2.29	1.37	1.43
15	be	104	LMT	O2'-C2'	-2.29	1.37	1.43
15	bj	102	LMT	O2'-C2'	-2.29	1.37	1.43
15	BT	104	LMT	O3B-C3B	-2.29	1.37	1.43
15	AA	1004	LMT	O3B-C3B	-2.29	1.37	1.43
15	BD	103	LMT	O3B-C3B	-2.29	1.37	1.43
15	BV	1004	LMT	O2B-C2B	-2.29	1.37	1.43
16	BB	101	V7N	C12-C13	-2.29	1.41	1.45
16	BD	101	V7N	C12-C13	-2.29	1.41	1.45
14	AF	1001	BCL	CHD-C1D	2.29	1.42	1.38
15	AG	103	LMT	O3B-C3B	-2.29	1.37	1.43
15	L	1005	LMT	O3B-C3B	-2.29	1.37	1.43
15	BP	1002	LMT	O3B-C3B	-2.29	1.37	1.43
15	BB	102	LMT	O2'-C2'	-2.29	1.37	1.43
14	aj	103	BCL	CHD-C1D	2.29	1.42	1.38
15	BH	1004	LMT	O3B-C3B	-2.29	1.37	1.43
15	BQ	1004	LMT	O2'-C2'	-2.29	1.37	1.43
14	ak	1001	BCL	CHD-C1D	2.29	1.42	1.38
15	AL	102	LMT	O3B-C3B	-2.29	1.37	1.43
15	BT	101	LMT	O3B-C3B	-2.29	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	bm	103	LMT	O2B-C2B	-2.29	1.37	1.43
16	bk	101	V7N	C7-C8	2.29	1.40	1.34
15	bn	105	LMT	O3B-C3B	-2.29	1.37	1.43
15	bf	102	LMT	O2B-C2B	-2.29	1.37	1.43
15	BC	103	LMT	O3B-C3B	-2.28	1.37	1.43
15	BM	1003	LMT	O2'-C2'	-2.28	1.37	1.43
16	BM	1001	V7N	C11-C12	2.28	1.40	1.34
15	BE	103	LMT	O2B-C2B	-2.28	1.37	1.43
15	AH	104	LMT	O2'-C2'	-2.28	1.37	1.43
15	bi	102	LMT	O3B-C3B	-2.28	1.37	1.43
14	AA	1001	BCL	CHD-C1D	2.28	1.42	1.38
16	BG	1001	V7N	C11-C12	2.28	1.40	1.34
15	BU	1003	LMT	O3B-C3B	-2.28	1.37	1.43
15	BM	1004	LMT	O2B-C2B	-2.28	1.37	1.43
14	AV	101	BCL	C1D-ND	2.28	1.40	1.37
15	BL	1005	LMT	O3B-C3B	-2.28	1.37	1.43
15	BP	1003	LMT	O2'-C2'	-2.28	1.37	1.43
15	BX	1004	LMT	O3B-C3B	-2.28	1.37	1.43
15	bl	101	LMT	O3B-C3B	-2.28	1.37	1.43
18	M	409	V75	O5-C1	-2.28	1.40	1.43
14	AP	103	BCL	C1D-ND	2.28	1.40	1.37
15	BW	1004	LMT	O2'-C2'	-2.28	1.37	1.43
15	L	1007	LMT	O2B-C2B	-2.28	1.37	1.43
15	BS	1006	LMT	O2'-C2'	-2.28	1.37	1.43
15	BQ	1004	LMT	O3B-C3B	-2.28	1.37	1.43
15	L	1004	LMT	O3B-C3B	-2.28	1.37	1.43
16	bb	101	V7N	C7-C8	2.28	1.40	1.34
15	AS	101	LMT	O3B-C3B	-2.28	1.37	1.43
15	BP	1004	LMT	O2B-C2B	-2.28	1.37	1.43
15	L	1003	LMT	O3B-C3B	-2.28	1.37	1.43
14	AB	1001	BCL	CHD-C1D	2.28	1.42	1.38
15	BB	105	LMT	O3B-C3B	-2.28	1.37	1.43
15	bh	101	LMT	O2B-C2B	-2.28	1.37	1.43
14	BI	1003	BCL	O2A-C1	-2.28	1.39	1.46
15	BH	1002	LMT	O3B-C3B	-2.28	1.37	1.43
14	AV	103	BCL	CHD-C1D	2.28	1.42	1.38
14	M	405	BCL	CHD-C1D	2.28	1.42	1.38
16	BU	1001	V7N	C7-C8	2.27	1.40	1.34
15	AA	1003	LMT	O3B-C3B	-2.27	1.37	1.43
15	AU	101	LMT	O3B-C3B	-2.27	1.37	1.43
15	BF	101	LMT	O2'-C2'	-2.27	1.37	1.43
15	M	403	LMT	O3B-C3B	-2.27	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	bj	102	LMT	O3B-C3B	-2.27	1.37	1.43
14	AQ	102	BCL	CHD-C1D	2.27	1.42	1.38
15	BR	1002	LMT	O3B-C3B	-2.27	1.37	1.43
15	AC	104	LMT	O2B-C2B	-2.27	1.37	1.43
15	be	104	LMT	O3B-C3B	-2.27	1.37	1.43
15	bl	105	LMT	O3B-C3B	-2.27	1.37	1.43
15	BS	1002	LMT	O2B-C2B	-2.27	1.37	1.43
15	BS	1005	LMT	O2B-C2B	-2.27	1.37	1.43
15	BS	1004	LMT	O3B-C3B	-2.27	1.37	1.43
16	BP	1001	V7N	C11-C12	2.27	1.40	1.34
15	BA	105	LMT	O3B-C3B	-2.27	1.37	1.43
15	bg	103	LMT	O3B-C3B	-2.27	1.37	1.43
16	BX	1001	V7N	C12-C13	-2.27	1.41	1.45
15	BO	1003	LMT	O2'-C2'	-2.27	1.37	1.43
15	BX	1003	LMT	O3B-C3B	-2.27	1.37	1.43
15	bl	105	LMT	O2B-C2B	-2.27	1.37	1.43
14	AS	104	BCL	C1D-ND	2.27	1.40	1.37
15	AQ	103	LMT	O2'-C2'	-2.27	1.37	1.43
15	BK	1004	LMT	O2B-C2B	-2.27	1.37	1.43
15	BH	1003	LMT	O3B-C3B	-2.27	1.37	1.43
15	BR	1003	LMT	O2'-C2'	-2.27	1.37	1.43
15	BT	102	LMT	O3B-C3B	-2.27	1.37	1.43
15	AA	1003	LMT	O2B-C2B	-2.27	1.37	1.43
14	ah	1001	BCL	CHD-C1D	2.27	1.42	1.38
15	AE	1002	LMT	O3B-C3B	-2.27	1.37	1.43
15	BE	102	LMT	O3B-C3B	-2.27	1.37	1.43
15	bd	103	LMT	O2B-C2B	-2.27	1.37	1.43
15	BU	1002	LMT	O2B-C2B	-2.27	1.37	1.43
16	bn	102	V7N	C7-C8	2.27	1.40	1.34
15	BN	101	LMT	O2B-C2B	-2.27	1.37	1.43
15	BP	1004	LMT	O3B-C3B	-2.27	1.37	1.43
15	BW	1004	LMT	O3B-C3B	-2.27	1.37	1.43
14	AN	101	BCL	C4B-NB	2.27	1.37	1.35
15	bh	101	LMT	O3B-C3B	-2.27	1.37	1.43
15	BV	1006	LMT	O2'-C2'	-2.26	1.37	1.43
14	BQ	1003	BCL	CHD-C1D	2.26	1.42	1.38
15	AN	103	LMT	O3B-C3B	-2.26	1.37	1.43
15	AP	104	LMT	O3B-C3B	-2.26	1.37	1.43
14	AX	102	BCL	C1D-ND	2.26	1.40	1.37
16	AS	105	V7N	C12-C13	-2.26	1.41	1.45
15	AD	101	LMT	O3B-C3B	-2.26	1.37	1.43
15	bj	102	LMT	O2B-C2B	-2.26	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	BB	101	V7N	C11-C12	2.26	1.40	1.34
15	AA	1003	LMT	O2'-C2'	-2.26	1.37	1.43
15	AQ	103	LMT	O2B-C2B	-2.26	1.37	1.43
15	bd	103	LMT	O3B-C3B	-2.26	1.37	1.43
15	BP	1003	LMT	O3B-C3B	-2.26	1.37	1.43
15	bg	103	LMT	O2'-C2'	-2.26	1.37	1.43
15	bm	105	LMT	O2'-C2'	-2.26	1.37	1.43
16	bi	101	V7N	C7-C8	2.26	1.40	1.34
15	BH	1004	LMT	O2B-C2B	-2.26	1.37	1.43
15	BV	1003	LMT	O3B-C3B	-2.26	1.37	1.43
15	AD	103	LMT	O2B-C2B	-2.26	1.37	1.43
15	BV	1003	LMT	O2'-C2'	-2.26	1.37	1.43
15	bh	104	LMT	O3B-C3B	-2.26	1.37	1.43
14	aa	1001	BCL	CHD-C1D	2.26	1.42	1.38
15	L	1004	LMT	O2'-C2'	-2.26	1.37	1.43
15	L	1005	LMT	O2B-C2B	-2.26	1.37	1.43
15	BK	1004	LMT	O2'-C2'	-2.26	1.37	1.43
15	bo	101	LMT	O3B-C3B	-2.26	1.37	1.43
15	BK	1004	LMT	O3B-C3B	-2.26	1.37	1.43
16	BI	1001	V7N	C11-C12	2.26	1.40	1.34
16	BL	1001	V7N	C11-C12	2.26	1.40	1.34
16	BO	1001	V7N	C7-C8	2.26	1.40	1.34
15	L	1008	LMT	O3B-C3B	-2.26	1.37	1.43
15	BG	1005	LMT	O3B-C3B	-2.26	1.37	1.43
16	BD	101	V7N	C11-C12	2.26	1.40	1.34
16	bf	101	V7N	C7-C8	2.26	1.40	1.34
15	AH	102	LMT	O3B-C3B	-2.26	1.37	1.43
14	AK	102	BCL	CHD-C1D	2.26	1.42	1.38
15	bc	104	LMT	O3B-C3B	-2.26	1.37	1.43
15	AD	103	LMT	O2'-C2'	-2.26	1.37	1.43
15	BC	103	LMT	O2B-C2B	-2.26	1.37	1.43
15	AN	103	LMT	O2B-C2B	-2.26	1.37	1.43
16	BJ	1001	V7N	C11-C12	2.26	1.40	1.34
15	BN	101	LMT	O3B-C3B	-2.26	1.37	1.43
15	BC	105	LMT	O3B-C3B	-2.25	1.37	1.43
15	BN	105	LMT	O3B-C3B	-2.25	1.37	1.43
15	bo	101	LMT	O2'-C2'	-2.25	1.37	1.43
15	bf	102	LMT	O3B-C3B	-2.25	1.37	1.43
15	BA	104	LMT	O3B-C3B	-2.25	1.37	1.43
15	BL	1002	LMT	O3B-C3B	-2.25	1.37	1.43
15	AD	101	LMT	O2'-C2'	-2.25	1.37	1.43
15	BI	1006	LMT	O3B-C3B	-2.25	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	bd	101	V7N	C7-C8	2.25	1.40	1.34
15	BN	104	LMT	O3B-C3B	-2.25	1.37	1.43
14	AV	102	BCL	CHD-C1D	2.25	1.42	1.38
14	AC	101	BCL	C1D-ND	2.25	1.40	1.37
14	am	1001	BCL	CHD-C1D	2.25	1.42	1.38
14	ad	1001	BCL	CHD-C1D	2.25	1.42	1.38
15	bd	103	LMT	O2'-C2'	-2.25	1.37	1.43
15	bm	103	LMT	O2'-C2'	-2.25	1.37	1.43
14	ai	101	BCL	CHD-C1D	2.25	1.42	1.38
15	BI	1002	LMT	O3B-C3B	-2.25	1.37	1.43
15	bn	101	LMT	O2'-C2'	-2.25	1.37	1.43
15	BB	102	LMT	O2B-C2B	-2.25	1.37	1.43
15	BK	1005	LMT	O3B-C3B	-2.25	1.37	1.43
15	BW	1002	LMT	O3B-C3B	-2.25	1.37	1.43
15	BD	102	LMT	O2'-C2'	-2.25	1.37	1.43
15	BW	1004	LMT	O2B-C2B	-2.25	1.37	1.43
15	bg	103	LMT	O2B-C2B	-2.25	1.37	1.43
15	BO	1002	LMT	O2'-C2'	-2.25	1.37	1.43
16	BP	1001	V7N	C8-C9	-2.25	1.41	1.45
16	bp	101	V7N	C7-C8	2.24	1.40	1.34
15	BD	102	LMT	O3B-C3B	-2.24	1.37	1.43
15	BL	1004	LMT	O3B-C3B	-2.24	1.37	1.43
15	BA	102	LMT	O2B-C2B	-2.24	1.37	1.43
15	BV	1006	LMT	O3B-C3B	-2.24	1.37	1.43
15	BL	1004	LMT	O2B-C2B	-2.24	1.37	1.43
24	ag	1002	V7B	O7-C10	2.24	1.40	1.34
15	BF	103	LMT	O3B-C3B	-2.24	1.37	1.43
15	BG	1002	LMT	O2B-C2B	-2.24	1.37	1.43
14	AS	102	BCL	C1D-ND	2.24	1.40	1.37
15	BE	102	LMT	O2'-C2'	-2.24	1.37	1.43
15	BI	1006	LMT	O2B-C2B	-2.24	1.37	1.43
15	BJ	1003	LMT	O2B-C2B	-2.24	1.37	1.43
15	BG	1006	LMT	O3B-C3B	-2.24	1.37	1.43
14	AM	102	BCL	C1D-ND	2.24	1.40	1.37
15	BA	102	LMT	O2'-C2'	-2.24	1.37	1.43
15	bb	102	LMT	O3B-C3B	-2.24	1.37	1.43
15	BG	1003	LMT	O2B-C2B	-2.24	1.37	1.43
15	BA	105	LMT	O2B-C2B	-2.24	1.37	1.43
15	ab	101	LMT	O3B-C3B	-2.24	1.37	1.43
15	bf	102	LMT	O2'-C2'	-2.24	1.37	1.43
16	BG	1001	V7N	C12-C13	-2.24	1.41	1.45
15	AG	103	LMT	O2B-C2B	-2.24	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	BG	1005	LMT	O2B-C2B	-2.24	1.37	1.43
16	bj	101	V7N	C7-C8	2.24	1.40	1.34
15	AF	1002	LMT	O3B-C3B	-2.24	1.37	1.43
15	BG	1002	LMT	O3B-C3B	-2.24	1.37	1.43
14	bc	102	BCL	CHD-C1D	2.24	1.42	1.38
15	BB	105	LMT	O2'-C2'	-2.24	1.37	1.43
14	bm	104	BCL	C3D-C4D	-2.24	1.39	1.44
15	L	1011	LMT	O2'-C2'	-2.23	1.37	1.43
15	BC	102	LMT	O2B-C2B	-2.23	1.37	1.43
16	BS	1001	V7N	C8-C9	-2.23	1.41	1.45
15	AJ	104	LMT	O2'-C2'	-2.23	1.37	1.43
15	BP	1002	LMT	O2B-C2B	-2.23	1.37	1.43
14	ac	1001	BCL	CHD-C1D	2.23	1.42	1.38
15	bn	101	LMT	O2B-C2B	-2.23	1.37	1.43
15	BQ	1004	LMT	O2B-C2B	-2.23	1.37	1.43
15	BE	102	LMT	O2B-C2B	-2.23	1.37	1.43
14	AN	104	BCL	C1D-ND	2.23	1.40	1.37
15	BI	1005	LMT	O3B-C3B	-2.23	1.37	1.43
15	AF	1002	LMT	O2B-C2B	-2.23	1.37	1.43
14	ab	102	BCL	CHD-C1D	2.23	1.42	1.38
16	BI	1001	V7N	C12-C13	-2.23	1.41	1.45
15	BB	104	LMT	O2'-C2'	-2.23	1.37	1.43
15	BM	1004	LMT	O3B-C3B	-2.23	1.37	1.43
15	BS	1004	LMT	O2B-C2B	-2.23	1.37	1.43
16	be	101	V7N	C19-C18	-2.23	1.41	1.45
15	BH	1002	LMT	O2B-C2B	-2.23	1.37	1.43
15	BH	1004	LMT	O2'-C2'	-2.23	1.37	1.43
14	AM	101	BCL	CHD-C1D	2.23	1.42	1.38
15	AS	101	LMT	O2B-C2B	-2.23	1.37	1.43
15	BC	105	LMT	O2B-C2B	-2.23	1.37	1.43
15	BU	1002	LMT	O3B-C3B	-2.23	1.37	1.43
16	BX	1001	V7N	C11-C12	2.23	1.40	1.34
14	AK	101	BCL	C1D-ND	2.23	1.40	1.37
15	BG	1003	LMT	O3B-C3B	-2.23	1.37	1.43
15	L	1011	LMT	O3B-C3B	-2.23	1.37	1.43
15	AH	104	LMT	O2B-C2B	-2.22	1.37	1.43
15	BA	102	LMT	O3B-C3B	-2.22	1.37	1.43
15	AC	104	LMT	O3B-C3B	-2.22	1.37	1.43
15	BV	1003	LMT	O2B-C2B	-2.22	1.37	1.43
15	BW	1005	LMT	O2B-C2B	-2.22	1.37	1.43
14	ae	102	BCL	CHD-C1D	2.22	1.42	1.38
16	bg	101	V7N	C7-C8	2.22	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	BR	1002	LMT	O2B-C2B	-2.22	1.37	1.43
15	BT	104	LMT	O2B-C2B	-2.22	1.37	1.43
15	BV	1002	LMT	O2B-C2B	-2.22	1.37	1.43
15	BK	1005	LMT	O2'-C2'	-2.22	1.37	1.43
15	BQ	1002	LMT	O2B-C2B	-2.22	1.37	1.43
15	AA	1004	LMT	O2B-C2B	-2.22	1.37	1.43
15	AX	101	LMT	O2B-C2B	-2.22	1.37	1.43
15	BE	103	LMT	O3B-C3B	-2.22	1.37	1.43
15	BQ	1002	LMT	O3B-C3B	-2.22	1.37	1.43
15	BR	1005	LMT	O2B-C2B	-2.22	1.37	1.43
15	BF	103	LMT	O2B-C2B	-2.22	1.37	1.43
15	L	1004	LMT	O2B-C2B	-2.22	1.37	1.43
15	BC	105	LMT	O2'-C2'	-2.22	1.37	1.43
15	BK	1002	LMT	O2B-C2B	-2.22	1.37	1.43
15	BN	104	LMT	O2B-C2B	-2.22	1.37	1.43
15	BO	1003	LMT	O3B-C3B	-2.22	1.37	1.43
15	BQ	1005	LMT	O3B-C3B	-2.22	1.37	1.43
15	BD	104	LMT	O3B-C3B	-2.22	1.37	1.43
15	AX	101	LMT	O3B-C3B	-2.22	1.37	1.43
15	BN	102	LMT	O2B-C2B	-2.22	1.37	1.43
15	BV	1006	LMT	O2B-C2B	-2.22	1.37	1.43
16	BJ	1001	V7N	C12-C13	-2.22	1.41	1.45
15	BL	1005	LMT	O2B-C2B	-2.22	1.37	1.43
15	BO	1003	LMT	O2B-C2B	-2.22	1.37	1.43
15	bo	101	LMT	O2B-C2B	-2.22	1.37	1.43
14	AX	103	BCL	C4B-NB	2.22	1.37	1.35
15	BK	1002	LMT	O3B-C3B	-2.22	1.37	1.43
14	AG	101	BCL	C1D-ND	2.21	1.40	1.37
14	AG	102	BCL	CHD-C1D	2.21	1.42	1.38
14	bk	102	BCL	CHD-C1D	2.21	1.42	1.38
15	BR	1005	LMT	O3B-C3B	-2.21	1.37	1.43
15	BS	1005	LMT	O3B-C3B	-2.21	1.37	1.43
15	bm	105	LMT	O3B-C3B	-2.21	1.37	1.43
15	BB	105	LMT	O2B-C2B	-2.21	1.37	1.43
15	BN	102	LMT	O3B-C3B	-2.21	1.37	1.43
15	L	1007	LMT	O2'-C2'	-2.21	1.37	1.43
15	BJ	1004	LMT	O2B-C2B	-2.21	1.37	1.43
15	BC	106	LMT	O3B-C3B	-2.21	1.37	1.43
18	C	405	V75	O3-C3A	2.21	1.40	1.35
15	BM	1004	LMT	O2'-C2'	-2.21	1.37	1.43
15	BI	1004	LMT	O2B-C2B	-2.21	1.37	1.43
15	BR	1005	LMT	O2'-C2'	-2.21	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	BS	1004	LMT	O2'-C2'	-2.21	1.37	1.43
15	L	1003	LMT	O2B-C2B	-2.21	1.37	1.43
16	BS	1001	V7N	C12-C13	-2.21	1.41	1.45
15	BF	101	LMT	O3B-C3B	-2.21	1.37	1.43
16	AE	1005	V7N	C12-C13	-2.21	1.41	1.45
15	BB	104	LMT	O2B-C2B	-2.21	1.37	1.43
15	BI	1005	LMT	O2B-C2B	-2.21	1.37	1.43
15	AT	102	LMT	O2'-C2'	-2.21	1.37	1.43
15	BL	1005	LMT	O2'-C2'	-2.21	1.37	1.43
15	BU	1003	LMT	O2B-C2B	-2.21	1.37	1.43
15	BT	102	LMT	O2B-C2B	-2.21	1.37	1.43
15	BE	103	LMT	O2'-C2'	-2.21	1.37	1.43
15	bo	105	LMT	O2B-C2B	-2.21	1.37	1.43
15	BJ	1003	LMT	O3B-C3B	-2.21	1.37	1.43
15	bm	105	LMT	O2B-C2B	-2.21	1.37	1.43
16	BR	1001	V7N	C7-C8	2.21	1.40	1.34
16	BW	1001	V7N	C12-C13	-2.21	1.41	1.45
16	BG	1001	V7N	C8-C9	-2.20	1.41	1.45
14	bg	105	BCL	CHD-C1D	2.20	1.42	1.38
15	BP	1003	LMT	O2B-C2B	-2.20	1.37	1.43
15	BR	1003	LMT	O2B-C2B	-2.20	1.37	1.43
16	BV	1001	V7N	C8-C9	-2.20	1.41	1.45
15	AU	101	LMT	O2B-C2B	-2.20	1.37	1.43
15	AQ	103	LMT	O3B-C3B	-2.20	1.37	1.43
15	M	403	LMT	O2B-C2B	-2.20	1.37	1.43
15	BC	106	LMT	O2B-C2B	-2.20	1.37	1.43
15	BW	1002	LMT	O2'-C2'	-2.20	1.37	1.43
16	bh	102	V7N	C8-C9	-2.20	1.41	1.45
14	be	105	BCL	CHD-C1D	2.20	1.42	1.38
15	BC	106	LMT	O2'-C2'	-2.20	1.37	1.43
16	BJ	1001	V7N	C8-C9	-2.20	1.41	1.45
15	BU	1002	LMT	O2'-C2'	-2.20	1.37	1.43
16	bg	101	V7N	C12-C13	-2.20	1.41	1.45
16	be	101	V7N	C8-C9	-2.20	1.41	1.45
16	BK	1001	V7N	C7-C8	2.20	1.40	1.34
16	bh	102	V7N	C7-C8	2.20	1.40	1.34
16	BI	1001	V7N	C8-C9	-2.20	1.41	1.45
14	bo	103	BCL	CHD-C1D	2.20	1.42	1.38
15	BF	101	LMT	O2B-C2B	-2.19	1.37	1.43
15	BQ	1005	LMT	O2B-C2B	-2.19	1.37	1.43
18	M	409	V75	O3-C3A	2.19	1.40	1.35
14	bm	104	BCL	CHD-C1D	2.19	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	BK	1005	LMT	O2B-C2B	-2.19	1.37	1.43
16	bl	102	V7N	C7-C8	2.19	1.40	1.34
18	M	409	V75	O2-C2A	2.19	1.40	1.35
14	bb	104	BCL	CHD-C1D	2.19	1.42	1.38
15	BI	1005	LMT	O2'-C2'	-2.19	1.37	1.43
16	bn	102	V7N	C20-C19	2.19	1.40	1.34
16	AE	1005	V7N	C7-C8	2.19	1.40	1.34
15	BD	102	LMT	O2B-C2B	-2.19	1.37	1.43
15	BD	103	LMT	O2B-C2B	-2.19	1.37	1.43
14	ag	1001	BCL	CHD-C1D	2.19	1.42	1.38
15	ab	101	LMT	O2B-C2B	-2.19	1.37	1.43
14	AM	102	BCL	O1A-CGA	-2.19	1.16	1.22
15	AD	101	LMT	O2B-C2B	-2.19	1.37	1.43
15	bl	101	LMT	O2'-C2'	-2.19	1.37	1.43
15	BD	104	LMT	O2B-C2B	-2.19	1.37	1.43
16	BW	1001	V7N	C7-C8	2.18	1.40	1.34
15	BN	104	LMT	O2'-C2'	-2.18	1.37	1.43
14	AU	103	BCL	C4B-NB	2.18	1.37	1.35
15	bi	102	LMT	O2B-C2B	-2.18	1.37	1.43
15	BW	1002	LMT	O2B-C2B	-2.18	1.37	1.43
15	L	1011	LMT	O2B-C2B	-2.18	1.37	1.43
16	be	101	V7N	C7-C8	2.18	1.40	1.34
15	BL	1002	LMT	O2B-C2B	-2.18	1.37	1.43
16	BC	101	V7N	C7-C8	2.18	1.40	1.34
14	M	405	BCL	C3D-C4D	-2.18	1.39	1.44
14	bl	104	BCL	C3D-C4D	-2.18	1.39	1.44
15	BJ	1004	LMT	O2'-C2'	-2.18	1.37	1.43
14	AT	101	BCL	C1D-ND	2.18	1.40	1.37
16	BD	101	V7N	C7-C8	2.18	1.40	1.34
16	BE	101	V7N	C7-C8	2.18	1.40	1.34
15	BX	1003	LMT	O2'-C2'	-2.18	1.37	1.43
15	BT	101	LMT	O2B-C2B	-2.18	1.37	1.43
14	L	1010	BCL	CHD-C1D	2.18	1.42	1.38
14	AI	103	BCL	C1D-ND	2.18	1.40	1.37
16	bc	101	V7N	C8-C9	-2.18	1.41	1.45
15	BH	1003	LMT	O2B-C2B	-2.18	1.37	1.43
14	bg	105	BCL	C3D-C4D	-2.18	1.39	1.44
15	BN	105	LMT	O2B-C2B	-2.17	1.37	1.43
15	AN	103	LMT	O2'-C2'	-2.17	1.37	1.43
14	BT	103	BCL	C3D-C4D	-2.17	1.39	1.44
14	BB	103	BCL	C3D-C4D	-2.17	1.39	1.44
15	BI	1002	LMT	O2B-C2B	-2.17	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	AO	1001	V7N	C12-C13	-2.17	1.41	1.45
16	BM	1001	V7N	C7-C8	2.17	1.40	1.34
15	BI	1006	LMT	O2'-C2'	-2.17	1.37	1.43
16	BL	1001	V7N	C8-C9	-2.17	1.41	1.45
15	BQ	1002	LMT	O2'-C2'	-2.17	1.37	1.43
16	bl	102	V7N	C12-C13	-2.17	1.41	1.45
16	BB	101	V7N	C8-C9	-2.17	1.41	1.45
15	BQ	1005	LMT	O2'-C2'	-2.17	1.37	1.43
16	BQ	1001	V7N	C12-C13	-2.17	1.41	1.45
16	BQ	1001	V7N	C8-C9	-2.17	1.41	1.45
15	BL	1002	LMT	O2'-C2'	-2.16	1.37	1.43
14	AL	103	BCL	C1D-ND	2.16	1.40	1.37
16	bo	102	V7N	C20-C19	2.16	1.40	1.34
14	af	101	BCL	CHD-C1D	2.16	1.42	1.38
14	BI	1003	BCL	C3D-C4D	-2.16	1.39	1.44
15	AI	101	LMT	O2'-C2'	-2.16	1.37	1.43
14	AA	1002	BCL	C1D-ND	2.16	1.40	1.37
15	BN	102	LMT	O2'-C2'	-2.16	1.37	1.43
14	BM	1002	BCL	C3D-C4D	-2.16	1.39	1.44
14	bj	103	BCL	C3D-C4D	-2.16	1.39	1.44
15	BG	1006	LMT	O2B-C2B	-2.16	1.37	1.43
16	BW	1001	V7N	C8-C9	-2.16	1.41	1.45
15	L	1008	LMT	O2'-C2'	-2.16	1.37	1.43
14	bi	104	BCL	CHD-C1D	2.16	1.42	1.38
28	ai	102	UYH	C30-C29	2.15	1.60	1.52
14	BK	1006	BCL	C3D-C4D	-2.15	1.39	1.44
14	aa	1001	BCL	C4B-NB	2.15	1.37	1.35
15	BJ	1003	LMT	O2'-C2'	-2.15	1.37	1.43
16	BA	101	V7N	C12-C13	-2.15	1.41	1.45
14	an	1001	BCL	C3D-C4D	-2.15	1.39	1.44
16	BE	101	V7N	C12-C13	-2.15	1.41	1.45
15	BA	104	LMT	O2B-C2B	-2.15	1.37	1.43
14	bb	104	BCL	C3D-C4D	-2.15	1.39	1.44
16	BH	1001	V7N	C7-C8	2.15	1.40	1.34
14	BP	1005	BCL	C3D-C4D	-2.15	1.39	1.44
14	BR	1004	BCL	C3D-C4D	-2.15	1.39	1.44
16	bh	102	V7N	C12-C13	-2.15	1.41	1.45
16	AS	105	V7N	C7-C8	2.15	1.40	1.34
15	bc	104	LMT	O2B-C2B	-2.15	1.37	1.43
15	BS	1006	LMT	O2B-C2B	-2.15	1.37	1.43
14	bn	103	BCL	CHD-C1D	2.14	1.42	1.38
14	AX	103	BCL	C1D-ND	2.14	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	AS	105	V7N	C8-C9	-2.14	1.41	1.45
16	bc	101	V7N	C7-C8	2.14	1.40	1.34
16	BX	1001	V7N	C7-C8	2.14	1.40	1.34
15	BK	1002	LMT	O4'-C4B	-2.14	1.37	1.43
14	ak	1001	BCL	C3D-C4D	-2.14	1.39	1.44
14	BX	1002	BCL	C3D-C4D	-2.14	1.39	1.44
16	BX	1001	V7N	C8-C9	-2.14	1.41	1.45
14	AT	101	BCL	C3D-C4D	-2.14	1.39	1.44
14	BU	1004	BCL	C3D-C4D	-2.14	1.39	1.44
16	BA	101	V7N	C7-C8	2.14	1.40	1.34
14	BQ	1003	BCL	C3D-C4D	-2.14	1.39	1.44
14	AN	102	BCL	C3D-C4D	-2.14	1.39	1.44
16	bl	102	V7N	C8-C9	-2.14	1.41	1.45
14	bd	102	BCL	CHD-C1D	2.14	1.42	1.38
14	bn	103	BCL	C3D-C4D	-2.14	1.39	1.44
15	bh	104	LMT	O2'-C2'	-2.14	1.37	1.43
16	BQ	1001	V7N	C7-C8	2.14	1.40	1.34
15	BG	1002	LMT	O2'-C2'	-2.14	1.37	1.43
14	AJ	102	BCL	C1D-ND	2.14	1.40	1.37
15	BW	1005	LMT	O4'-C4B	-2.13	1.37	1.43
16	BJ	1001	V7N	C7-C8	2.13	1.40	1.34
14	AC	102	BCL	C4B-NB	2.13	1.37	1.35
14	BI	1003	BCL	C2-C3	-2.13	1.27	1.33
15	BX	1003	LMT	O2B-C2B	-2.13	1.38	1.43
16	BC	101	V7N	C12-C13	-2.13	1.41	1.45
14	be	105	BCL	C3D-C4D	-2.13	1.39	1.44
15	bo	105	LMT	O2'-C2'	-2.13	1.38	1.43
16	bj	101	V7N	C12-C13	-2.13	1.41	1.45
15	BX	1004	LMT	O2B-C2B	-2.13	1.38	1.43
16	bb	101	V7N	C12-C13	-2.13	1.41	1.45
14	BA	103	BCL	C3D-C4D	-2.13	1.39	1.44
14	bd	102	BCL	C3D-C4D	-2.13	1.39	1.44
15	bb	102	LMT	O2'-C2'	-2.13	1.38	1.43
15	AP	104	LMT	O2B-C2B	-2.12	1.38	1.43
14	AI	102	BCL	C4B-NB	2.12	1.37	1.35
14	AQ	101	BCL	C1D-ND	2.12	1.40	1.37
14	AH	103	BCL	C1D-ND	2.12	1.40	1.37
14	ab	102	BCL	C3D-C4D	-2.12	1.39	1.44
14	ba	103	BCL	CHD-C1D	2.12	1.42	1.38
15	AX	101	LMT	O2'-C2'	-2.12	1.38	1.43
14	bl	104	BCL	CHD-C1D	2.12	1.42	1.38
16	bm	101	V7N	C20-C19	2.12	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	BH	1001	V7N	C12-C13	-2.12	1.41	1.45
14	bh	105	BCL	CHD-C1D	2.12	1.42	1.38
16	bg	101	V7N	C8-C9	-2.12	1.41	1.45
16	bp	101	V7N	C20-C19	2.12	1.40	1.34
14	bi	104	BCL	C3D-C4D	-2.11	1.39	1.44
14	AR	101	BCL	C1D-ND	2.11	1.40	1.37
14	ba	103	BCL	C3D-C4D	-2.11	1.39	1.44
14	al	1001	BCL	C4B-NB	2.11	1.37	1.35
14	BW	1003	BCL	C3D-C4D	-2.11	1.39	1.44
14	AC	102	BCL	C3D-C4D	-2.11	1.39	1.44
14	bk	102	BCL	C3D-C4D	-2.11	1.39	1.44
16	AO	1001	V7N	C8-C9	-2.11	1.41	1.45
16	bd	101	V7N	C8-C9	-2.11	1.41	1.45
14	AB	1002	BCL	C1D-ND	2.11	1.40	1.37
16	bo	102	V7N	C16-C15	2.11	1.41	1.36
14	AS	103	BCL	C3D-C4D	-2.11	1.39	1.44
15	bn	105	LMT	O4'-C4B	-2.11	1.38	1.43
14	AX	102	BCL	C4B-NB	2.11	1.37	1.35
14	bc	102	BCL	C3D-C4D	-2.11	1.39	1.44
16	bk	101	V7N	C12-C13	-2.11	1.41	1.45
14	AP	102	BCL	C3D-C4D	-2.11	1.39	1.44
14	AR	102	BCL	C1D-ND	2.11	1.40	1.37
15	BU	1003	LMT	O2'-C2'	-2.10	1.38	1.43
14	BN	103	BCL	C3D-C4D	-2.10	1.39	1.44
16	bf	101	V7N	C12-C13	-2.10	1.41	1.45
14	bf	103	BCL	C3D-C4D	-2.10	1.39	1.44
15	BM	1003	LMT	O2B-C2B	-2.10	1.38	1.43
14	AJ	101	BCL	C4B-NB	2.10	1.37	1.35
16	AO	1001	V7N	C7-C8	2.10	1.40	1.34
14	AI	102	BCL	C3D-C4D	-2.10	1.39	1.44
16	AE	1005	V7N	C8-C9	-2.10	1.41	1.45
15	AD	103	LMT	O4'-C4B	-2.10	1.38	1.43
15	BT	102	LMT	O4'-C4B	-2.10	1.38	1.43
15	BJ	1003	LMT	O4'-C4B	-2.10	1.38	1.43
15	BI	1004	LMT	O4'-C4B	-2.10	1.38	1.43
14	BV	1005	BCL	C3D-C4D	-2.10	1.39	1.44
14	AQ	102	BCL	C1D-ND	2.10	1.40	1.37
14	AA	1001	BCL	C4B-NB	2.10	1.37	1.35
14	AO	1002	BCL	C1D-ND	2.10	1.40	1.37
15	BB	105	LMT	O4'-C4B	-2.10	1.38	1.43
14	AB	1001	BCL	C1D-ND	2.10	1.40	1.37
14	AE	1001	BCL	C4B-NB	2.10	1.37	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	bf	103	BCL	CHD-C1D	2.09	1.42	1.38
16	BB	101	V7N	C7-C8	2.09	1.40	1.34
14	BH	1005	BCL	C3D-C4D	-2.09	1.39	1.44
14	AP	102	BCL	C1D-ND	2.09	1.40	1.37
15	AA	1004	LMT	O4'-C4B	-2.09	1.38	1.43
14	AL	103	BCL	C3D-C4D	-2.09	1.39	1.44
16	ba	101	V7N	C16-C15	2.09	1.41	1.36
14	M	408	BCL	C3D-C4D	-2.09	1.39	1.44
14	ao	102	BCL	C1D-ND	2.09	1.40	1.37
16	BR	1001	V7N	C12-C13	-2.09	1.41	1.45
16	BH	1001	V7N	C8-C9	-2.09	1.41	1.45
14	bo	103	BCL	C3D-C4D	-2.09	1.39	1.44
15	L	1003	LMT	O4'-C4B	-2.09	1.38	1.43
15	bn	101	LMT	O4'-C4B	-2.09	1.38	1.43
15	AH	104	LMT	O4'-C4B	-2.09	1.38	1.43
15	L	1007	LMT	O4'-C4B	-2.09	1.38	1.43
15	BH	1004	LMT	O4'-C4B	-2.09	1.38	1.43
15	BN	101	LMT	O4'-C4B	-2.09	1.38	1.43
16	bc	101	V7N	C12-C13	-2.09	1.41	1.45
28	ai	102	UYH	C12-C11	2.09	1.59	1.52
14	bl	104	BCL	C1D-C2D	-2.09	1.41	1.45
16	BC	101	V7N	C20-C19	2.09	1.40	1.34
14	AV	103	BCL	C1D-ND	2.09	1.40	1.37
14	AV	102	BCL	C3D-C4D	-2.09	1.39	1.44
16	bp	101	V7N	C12-C13	-2.09	1.41	1.45
16	BU	1001	V7N	C20-C19	2.09	1.40	1.34
16	BM	1001	V7N	C8-C9	-2.09	1.41	1.45
16	bd	101	V7N	C12-C13	-2.08	1.41	1.45
14	L	1002	BCL	C3D-C4D	-2.08	1.39	1.44
14	ad	1001	BCL	C1D-ND	2.08	1.40	1.37
14	BL	1003	BCL	C3D-C4D	-2.08	1.39	1.44
14	AU	102	BCL	C4B-NB	2.08	1.37	1.35
16	BL	1001	V7N	C7-C8	2.08	1.39	1.34
16	BC	101	V7N	C8-C9	-2.08	1.41	1.45
14	ap	1001	BCL	C3D-C4D	-2.08	1.39	1.44
14	AO	1002	BCL	C3D-C4D	-2.08	1.39	1.44
15	AI	101	LMT	O4'-C4B	-2.08	1.38	1.43
16	bn	102	V7N	C16-C15	2.08	1.41	1.36
14	AI	103	BCL	C4B-NB	2.08	1.37	1.35
14	AF	1001	BCL	C1D-ND	2.08	1.40	1.37
16	bp	101	V7N	C16-C15	2.08	1.41	1.36
14	AI	102	BCL	C1D-ND	2.08	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	BA	105	LMT	O4'-C4B	-2.08	1.38	1.43
16	bb	101	V7N	C8-C9	-2.08	1.41	1.45
16	bm	101	V7N	C16-C15	2.08	1.41	1.36
14	BE	104	BCL	C3D-C4D	-2.08	1.39	1.44
14	BG	1004	BCL	C3D-C4D	-2.08	1.39	1.44
15	BW	1005	LMT	O2'-C2'	-2.08	1.38	1.43
15	BP	1004	LMT	O4'-C4B	-2.08	1.38	1.43
15	bd	103	LMT	O4'-C4B	-2.08	1.38	1.43
15	be	104	LMT	O4'-C4B	-2.08	1.38	1.43
16	bn	102	V7N	C12-C13	-2.08	1.41	1.45
15	BT	102	LMT	O2'-C2'	-2.08	1.38	1.43
16	BI	1001	V7N	C7-C8	2.08	1.39	1.34
15	bf	102	LMT	O4'-C4B	-2.08	1.38	1.43
16	BR	1001	V7N	C8-C9	-2.08	1.41	1.45
15	AQ	103	LMT	O4'-C4B	-2.08	1.38	1.43
15	BH	1002	LMT	O4'-C4B	-2.08	1.38	1.43
14	aj	103	BCL	C3D-C4D	-2.07	1.39	1.44
15	BO	1002	LMT	O2B-C2B	-2.07	1.38	1.43
14	BD	105	BCL	C3D-C4D	-2.07	1.39	1.44
16	BU	1001	V7N	C16-C15	2.07	1.41	1.36
14	AC	102	BCL	C1D-ND	2.07	1.40	1.37
14	bj	103	BCL	CHD-C1D	2.07	1.42	1.38
14	BF	102	BCL	C3D-C4D	-2.07	1.39	1.44
15	BW	1004	LMT	O4'-C4B	-2.07	1.38	1.43
14	AK	102	BCL	C3D-C4D	-2.07	1.39	1.44
14	ab	102	BCL	C1D-ND	2.07	1.40	1.37
15	BK	1005	LMT	O4'-C4B	-2.07	1.38	1.43
15	bj	102	LMT	O4'-C4B	-2.07	1.38	1.43
14	ag	1001	BCL	C3D-C4D	-2.07	1.39	1.44
14	al	1001	BCL	C3D-C4D	-2.07	1.39	1.44
16	bp	101	V7N	C8-C9	-2.07	1.41	1.45
16	BE	101	V7N	C8-C9	-2.07	1.41	1.45
16	bf	101	V7N	C8-C9	-2.07	1.41	1.45
15	bb	102	LMT	O4'-C4B	-2.07	1.38	1.43
16	BG	1001	V7N	C7-C8	2.07	1.39	1.34
16	bd	101	V7N	C20-C19	2.07	1.39	1.34
14	BO	1004	BCL	C3D-C4D	-2.07	1.39	1.44
14	L	1010	BCL	C3D-C4D	-2.07	1.39	1.44
15	M	403	LMT	O4'-C4B	-2.07	1.38	1.43
16	bf	101	V7N	C16-C15	2.07	1.41	1.36
14	AN	102	BCL	C1D-ND	2.07	1.40	1.37
15	AS	101	LMT	O4'-C4B	-2.07	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	bj	101	V7N	C8-C9	-2.07	1.41	1.45
15	AU	101	LMT	O4'-C4B	-2.07	1.38	1.43
16	BV	1001	V7N	C7-C8	2.07	1.39	1.34
15	bo	105	LMT	O4'-C4B	-2.07	1.38	1.43
14	ac	1001	BCL	C1D-ND	2.07	1.40	1.37
16	BO	1001	V7N	C20-C19	2.06	1.39	1.34
14	BJ	1002	BCL	C3D-C4D	-2.06	1.39	1.44
15	BN	105	LMT	O4'-C4B	-2.06	1.38	1.43
14	bh	105	BCL	C3D-C4D	-2.06	1.39	1.44
16	BA	101	V7N	C8-C9	-2.06	1.41	1.45
16	BC	101	V7N	C16-C15	2.06	1.41	1.36
15	BD	103	LMT	O4'-C4B	-2.06	1.38	1.43
15	BE	103	LMT	O4'-C4B	-2.06	1.38	1.43
14	ad	1001	BCL	C3D-C4D	-2.06	1.39	1.44
15	BN	104	LMT	O4'-C4B	-2.06	1.38	1.43
15	BT	104	LMT	O4'-C4B	-2.06	1.38	1.43
14	AQ	102	BCL	C3D-C4D	-2.06	1.39	1.44
14	aa	1001	BCL	C3D-C4D	-2.06	1.39	1.44
15	BL	1002	LMT	O4'-C4B	-2.06	1.38	1.43
14	ah	1001	BCL	C4B-NB	2.06	1.37	1.35
14	AU	102	BCL	C3D-C4D	-2.06	1.39	1.44
14	BS	1003	BCL	C3D-C4D	-2.06	1.39	1.44
14	bp	102	BCL	C3D-C4D	-2.06	1.39	1.44
15	BA	104	LMT	O4'-C4B	-2.06	1.38	1.43
15	AC	104	LMT	O4'-C4B	-2.06	1.38	1.43
15	BF	101	LMT	O4'-C4B	-2.06	1.38	1.43
15	BH	1003	LMT	O4'-C4B	-2.06	1.38	1.43
15	BP	1002	LMT	O4'-C4B	-2.06	1.38	1.43
16	BS	1001	V7N	C7-C8	2.06	1.39	1.34
15	AA	1003	LMT	O4'-C4B	-2.06	1.38	1.43
14	AC	103	BCL	C3D-C4D	-2.06	1.39	1.44
15	BC	102	LMT	O4'-C4B	-2.06	1.38	1.43
14	AK	102	BCL	C4B-NB	2.06	1.37	1.35
14	af	101	BCL	C1D-ND	2.06	1.40	1.37
15	AP	104	LMT	O4'-C4B	-2.06	1.38	1.43
15	BG	1006	LMT	O4'-C4B	-2.06	1.38	1.43
14	AR	101	BCL	C3D-C4D	-2.06	1.39	1.44
14	ac	1001	BCL	C3D-C4D	-2.06	1.39	1.44
14	AD	102	BCL	C1D-ND	2.06	1.40	1.37
14	bp	102	BCL	C1D-C2D	-2.06	1.41	1.45
14	ao	102	BCL	C3D-C4D	-2.06	1.39	1.44
15	BI	1002	LMT	O4'-C4B	-2.05	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	AF	1001	BCL	C3D-C4D	-2.05	1.39	1.44
24	ag	1002	V7B	O8-C9	-2.05	1.40	1.45
15	BJ	1004	LMT	O4'-C4B	-2.05	1.38	1.43
14	BC	104	BCL	C3D-C4D	-2.05	1.39	1.44
15	BD	104	LMT	O4'-C4B	-2.05	1.38	1.43
15	BI	1005	LMT	O4'-C4B	-2.05	1.38	1.43
15	BR	1003	LMT	O4'-C4B	-2.05	1.38	1.43
15	BX	1004	LMT	O4'-C4B	-2.05	1.38	1.43
16	bi	101	V7N	C20-C19	2.05	1.39	1.34
14	ap	1001	BCL	C4B-NB	2.05	1.37	1.35
15	BS	1004	LMT	O4'-C4B	-2.05	1.38	1.43
15	bl	105	LMT	O4'-C4B	-2.05	1.38	1.43
14	AT	101	BCL	C4B-NB	2.05	1.37	1.35
16	BK	1001	V7N	C19-C18	-2.05	1.41	1.45
14	AG	102	BCL	C3D-C4D	-2.05	1.39	1.44
16	BO	1001	V7N	C16-C15	2.05	1.41	1.36
14	AK	102	BCL	C1D-ND	2.04	1.40	1.37
14	ah	1001	BCL	C3D-C4D	-2.04	1.39	1.44
14	AS	103	BCL	C1D-ND	2.04	1.40	1.37
14	L	1002	BCL	C1D-ND	2.04	1.40	1.37
14	AM	101	BCL	C3D-C4D	-2.04	1.39	1.44
14	AU	102	BCL	C1D-ND	2.04	1.40	1.37
14	am	1001	BCL	C3D-C4D	-2.04	1.39	1.44
15	AJ	104	LMT	O2B-C2B	-2.04	1.38	1.43
16	BP	1001	V7N	C7-C8	2.04	1.39	1.34
15	BS	1006	LMT	O4'-C4B	-2.04	1.38	1.43
16	bb	101	V7N	C16-C15	2.04	1.41	1.36
16	bd	101	V7N	C16-C15	2.04	1.41	1.36
14	AG	102	BCL	C1D-ND	2.04	1.40	1.37
14	BC	104	BCL	C1D-ND	2.04	1.40	1.37
14	AH	103	BCL	C3D-C4D	-2.04	1.39	1.44
15	AG	103	LMT	O4'-C4B	-2.04	1.38	1.43
15	BB	104	LMT	O4'-C4B	-2.04	1.38	1.43
14	AA	1001	BCL	C1D-ND	2.04	1.40	1.37
14	AW	101	BCL	C1D-ND	2.04	1.40	1.37
15	BS	1005	LMT	O4'-C4B	-2.04	1.38	1.43
15	BK	1003	LMT	O2B-C2B	-2.04	1.38	1.43
14	AE	1001	BCL	C1D-ND	2.04	1.40	1.37
14	am	1001	BCL	C1D-ND	2.04	1.40	1.37
14	AJ	101	BCL	C3D-C4D	-2.03	1.39	1.44
15	AJ	104	LMT	O4'-C4B	-2.03	1.38	1.43
16	bo	102	V7N	C8-C9	-2.03	1.41	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	AA	1001	BCL	C3D-C4D	-2.03	1.39	1.44
15	BG	1002	LMT	O4'-C4B	-2.03	1.38	1.43
15	BX	1003	LMT	O4'-C4B	-2.03	1.38	1.43
14	AQ	102	BCL	C4B-NB	2.03	1.37	1.35
16	AO	1001	V7N	C19-C18	-2.03	1.41	1.45
14	BF	102	BCL	C1D-ND	2.03	1.40	1.37
14	BG	1004	BCL	C1D-ND	2.03	1.40	1.37
14	AD	102	BCL	C3D-C4D	-2.03	1.39	1.44
14	AW	101	BCL	C3D-C4D	-2.03	1.39	1.44
14	am	1001	BCL	O2A-CGA	-2.03	1.27	1.33
14	AK	101	BCL	C3D-C4D	-2.03	1.39	1.44
15	BU	1003	LMT	O4'-C4B	-2.03	1.38	1.43
14	BO	1004	BCL	C1D-ND	2.03	1.40	1.37
14	M	405	BCL	C1D-ND	2.03	1.40	1.37
16	bi	101	V7N	C16-C15	2.03	1.41	1.36
14	bp	102	BCL	CHD-C1D	2.03	1.42	1.38
15	BE	102	LMT	O4'-C4B	-2.03	1.38	1.43
15	bo	101	LMT	O4'-C4B	-2.03	1.38	1.43
16	bc	101	V7N	C16-C15	2.03	1.41	1.36
15	BV	1002	LMT	O4'-C4B	-2.03	1.38	1.43
14	AE	1001	BCL	C3D-C4D	-2.03	1.39	1.44
16	ba	101	V7N	C20-C19	2.03	1.39	1.34
14	ai	101	BCL	C3D-C4D	-2.03	1.39	1.44
15	bh	104	LMT	O4'-C4B	-2.03	1.38	1.43
16	BE	101	V7N	C16-C15	2.02	1.41	1.36
16	bi	101	V7N	C12-C13	-2.02	1.41	1.45
16	BD	101	V7N	C8-C9	-2.02	1.41	1.45
15	BV	1006	LMT	O4'-C4B	-2.02	1.38	1.43
16	bg	101	V7N	C19-C18	-2.02	1.41	1.45
15	BQ	1004	LMT	O4'-C4B	-2.02	1.38	1.43
16	bk	101	V7N	C16-C15	2.02	1.41	1.36
14	AL	103	BCL	C4B-NB	2.02	1.37	1.35
15	BG	1003	LMT	O4'-C4B	-2.02	1.38	1.43
15	L	1011	LMT	O4'-C4B	-2.02	1.38	1.43
15	bl	101	LMT	O4'-C4B	-2.02	1.38	1.43
16	bk	101	V7N	C20-C19	2.02	1.39	1.34
16	AE	1005	V7N	C19-C18	-2.02	1.41	1.45
15	BM	1003	LMT	O4'-C4B	-2.02	1.38	1.43
14	AF	1001	BCL	C4B-NB	2.02	1.37	1.35
15	BV	1004	LMT	O4'-C4B	-2.02	1.38	1.43
16	bo	102	V7N	C27-C26	2.02	1.50	1.45
15	BT	101	LMT	O4'-C4B	-2.02	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	bh	102	V7N	C20-C19	2.02	1.39	1.34
16	bl	102	V7N	C20-C19	2.02	1.39	1.34
14	AC	101	BCL	C3D-C4D	-2.02	1.39	1.44
14	AV	102	BCL	C1D-ND	2.02	1.40	1.37
15	BL	1005	LMT	O4'-C4B	-2.02	1.38	1.43
14	ak	1001	BCL	C1D-ND	2.02	1.40	1.37
14	AB	1001	BCL	C3D-C4D	-2.02	1.39	1.44
14	BW	1003	BCL	C1D-ND	2.02	1.40	1.37
14	ae	102	BCL	C1D-ND	2.02	1.40	1.37
14	AE	1004	BCL	C4B-NB	2.02	1.37	1.35
14	AS	104	BCL	C4B-NB	2.02	1.37	1.35
14	ae	102	BCL	C3D-C4D	-2.02	1.39	1.44
16	bn	102	V7N	C8-C9	-2.02	1.41	1.45
15	AN	103	LMT	O4'-C4B	-2.02	1.38	1.43
14	aa	1001	BCL	C1D-ND	2.02	1.40	1.37
15	BF	103	LMT	O4'-C4B	-2.02	1.38	1.43
16	bi	101	V7N	C8-C9	-2.01	1.41	1.45
14	ap	1001	BCL	C1D-ND	2.01	1.40	1.37
14	AR	102	BCL	C3D-C4D	-2.01	1.39	1.44
14	bm	104	BCL	C1D-C2D	-2.01	1.41	1.45
14	AA	1002	BCL	C3D-C4D	-2.01	1.39	1.44
15	bh	101	LMT	O4'-C4B	-2.01	1.38	1.43
14	bn	103	BCL	C1D-C2D	-2.01	1.41	1.45
15	AD	101	LMT	O4'-C4B	-2.01	1.38	1.43
15	BD	102	LMT	O4'-C4B	-2.01	1.38	1.43
16	bf	101	V7N	C20-C19	2.01	1.39	1.34
14	AM	101	BCL	C1D-ND	2.01	1.40	1.37
15	BR	1002	LMT	O4'-C4B	-2.01	1.38	1.43
15	ab	101	LMT	O4'-C4B	-2.01	1.38	1.43
15	L	1005	LMT	O4'-C4B	-2.01	1.38	1.43
14	AX	103	BCL	C3D-C4D	-2.01	1.39	1.44
15	AH	102	LMT	O4'-C4B	-2.01	1.38	1.43
15	AJ	103	LMT	O4'-C4B	-2.01	1.38	1.43
14	AG	101	BCL	C3D-C4D	-2.01	1.39	1.44
15	AT	102	LMT	O4'-C4B	-2.01	1.38	1.43
16	bg	101	V7N	C16-C15	2.01	1.41	1.36
14	AV	103	BCL	C3D-C4D	-2.01	1.39	1.44
15	BN	102	LMT	O4'-C4B	-2.01	1.38	1.43
14	AP	103	BCL	C4B-NB	2.01	1.37	1.35
14	L	1010	BCL	C1D-C2D	-2.01	1.41	1.45
16	BG	1001	V7N	C19-C18	-2.00	1.41	1.45
15	BC	103	LMT	O4'-C4B	-2.00	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	ah	1001	BCL	C1D-ND	2.00	1.40	1.37
15	BW	1002	LMT	O4'-C4B	-2.00	1.38	1.43
16	BH	1001	V7N	C20-C19	2.00	1.39	1.34
14	ae	102	BCL	C4B-NB	2.00	1.37	1.35
14	BU	1004	BCL	C1D-ND	2.00	1.40	1.37
14	af	101	BCL	C3D-C4D	-2.00	1.39	1.44
15	AP	101	LMT	O4'-C4B	-2.00	1.38	1.43
15	BV	1003	LMT	O4'-C4B	-2.00	1.38	1.43
14	BD	105	BCL	C1D-ND	2.00	1.40	1.37
16	BR	1001	V7N	C16-C15	2.00	1.41	1.36
16	BK	1001	V7N	C8-C9	-2.00	1.41	1.45

All (1866) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BF	102	BCL	C1-C2-C3	12.31	147.32	126.04
14	BI	1003	BCL	C1-O2A-CGA	9.20	140.59	116.44
14	am	1001	BCL	C1-C2-C3	9.06	141.72	126.04
14	BN	103	BCL	C1-O2A-CGA	8.58	138.95	116.44
14	AL	101	BCL	C1-O2A-CGA	7.38	135.80	116.44
16	AS	105	V7N	C28-C27-C26	-7.31	105.88	126.42
16	bg	101	V7N	C28-C27-C26	-6.86	107.13	126.42
16	BU	1001	V7N	C28-C27-C26	-6.84	107.21	126.42
14	AQ	101	BCL	C1-O2A-CGA	6.45	133.37	116.44
14	AG	101	BCL	C1-C2-C3	6.17	136.72	126.04
14	BA	103	BCL	C1-C2-C3	6.15	136.69	126.04
14	ai	101	BCL	C1-C2-C3	5.90	136.24	126.04
16	be	101	V7N	C28-C27-C26	-5.88	109.89	126.42
16	BX	1001	V7N	C28-C27-C26	-5.76	110.24	126.42
21	af	102	CD4	O2-C14-C13	5.71	123.81	111.50
14	AN	104	BCL	CHD-C1D-ND	-5.70	119.21	124.45
14	AB	1002	BCL	CHD-C1D-ND	-5.69	119.22	124.45
21	aj	102	CD4	O2-C14-C13	5.61	123.59	111.50
21	H1	104	CD4	O2-C14-C13	5.61	123.59	111.50
14	M	408	BCL	CHD-C1D-ND	-5.58	119.33	124.45
14	AC	103	BCL	C4D-CHA-C1A	5.55	128.00	121.25
14	AP	103	BCL	C4D-CHA-C1A	5.55	128.00	121.25
14	AV	101	BCL	C4D-CHA-C1A	5.53	127.98	121.25
14	AV	103	BCL	CHD-C1D-ND	-5.52	119.38	124.45
14	AJ	102	BCL	C4D-CHA-C1A	5.50	127.94	121.25
14	AG	101	BCL	CHD-C1D-ND	-5.46	119.44	124.45
14	AC	101	BCL	C4D-CHA-C1A	5.45	127.88	121.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AN	101	BCL	C4D-CHA-C1A	5.44	127.86	121.25
14	BP	1005	BCL	C4D-CHA-C1A	5.41	127.84	121.25
14	AL	101	BCL	C4D-CHA-C1A	5.41	127.83	121.25
14	AH	101	BCL	C4D-CHA-C1A	5.40	127.83	121.25
14	AX	102	BCL	C4D-CHA-C1A	5.39	127.81	121.25
14	AN	104	BCL	C4D-CHA-C1A	5.38	127.80	121.25
14	L	1002	BCL	CHD-C1D-ND	-5.37	119.52	124.45
14	BC	104	BCL	C4D-CHA-C1A	5.36	127.77	121.25
14	BN	103	BCL	C4D-CHA-C1A	5.36	127.77	121.25
14	BU	1004	BCL	C4D-CHA-C1A	5.35	127.76	121.25
14	an	1001	BCL	C4D-CHA-C1A	5.34	127.75	121.25
16	bp	101	V7N	C28-C27-C26	-5.34	111.41	126.42
14	AM	102	BCL	C4D-CHA-C1A	5.34	127.75	121.25
23	ao	101	MQ8	C11-C3-C4	-5.34	112.79	118.50
14	AE	1004	BCL	CHD-C1D-ND	-5.34	119.55	124.45
14	bi	104	BCL	C4D-CHA-C1A	5.33	127.73	121.25
14	BO	1004	BCL	C4D-CHA-C1A	5.32	127.73	121.25
14	M	405	BCL	C4D-CHA-C1A	5.32	127.72	121.25
14	ao	102	BCL	C4D-CHA-C1A	5.32	127.72	121.25
14	AA	1002	BCL	C4D-CHA-C1A	5.32	127.72	121.25
14	BD	105	BCL	C4D-CHA-C1A	5.32	127.72	121.25
14	AX	102	BCL	CHD-C1D-ND	-5.31	119.57	124.45
14	bk	102	BCL	C4D-CHA-C1A	5.31	127.71	121.25
14	ae	102	BCL	C4D-CHA-C1A	5.31	127.71	121.25
14	AX	103	BCL	C4D-CHA-C1A	5.30	127.70	121.25
14	BM	1002	BCL	C4D-CHA-C1A	5.30	127.70	121.25
14	ag	1001	BCL	C4D-CHA-C1A	5.30	127.70	121.25
16	AE	1005	V7N	C28-C27-C26	-5.29	111.55	126.42
14	BF	102	BCL	C4D-CHA-C1A	5.29	127.69	121.25
14	BV	1005	BCL	C4D-CHA-C1A	5.29	127.69	121.25
14	BX	1002	BCL	C4D-CHA-C1A	5.29	127.68	121.25
14	be	105	BCL	C4D-CHA-C1A	5.29	127.68	121.25
14	BW	1003	BCL	C4D-CHA-C1A	5.28	127.68	121.25
14	BR	1004	BCL	C4D-CHA-C1A	5.28	127.68	121.25
14	BI	1003	BCL	C4D-CHA-C1A	5.28	127.67	121.25
14	aa	1001	BCL	C4D-CHA-C1A	5.28	127.67	121.25
14	al	1001	BCL	C4D-CHA-C1A	5.28	127.67	121.25
14	AS	102	BCL	C4D-CHA-C1A	5.28	127.67	121.25
14	BB	103	BCL	C4D-CHA-C1A	5.28	127.67	121.25
14	BT	103	BCL	C4D-CHA-C1A	5.28	127.67	121.25
14	BG	1004	BCL	C4D-CHA-C1A	5.27	127.66	121.25
14	AQ	101	BCL	C4D-CHA-C1A	5.27	127.66	121.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BS	1003	BCL	C4D-CHA-C1A	5.26	127.66	121.25
17	C	403	HEC	CMC-C2C-C1C	-5.26	120.37	128.46
14	AW	101	BCL	C4D-CHA-C1A	5.26	127.65	121.25
14	BJ	1002	BCL	C4D-CHA-C1A	5.26	127.65	121.25
14	AI	103	BCL	CHD-C1D-ND	-5.26	119.62	124.45
14	BA	103	BCL	C4D-CHA-C1A	5.26	127.64	121.25
14	AG	101	BCL	C4D-CHA-C1A	5.25	127.64	121.25
14	BK	1006	BCL	C4D-CHA-C1A	5.25	127.63	121.25
17	C	401	HEC	CMC-C2C-C1C	-5.24	120.41	128.46
14	bm	104	BCL	C4D-CHA-C1A	5.24	127.62	121.25
14	bl	104	BCL	C4D-CHA-C1A	5.24	127.62	121.25
14	bc	102	BCL	C4D-CHA-C1A	5.24	127.62	121.25
14	am	1001	BCL	C4D-CHA-C1A	5.23	127.61	121.25
14	af	101	BCL	C4D-CHA-C1A	5.22	127.61	121.25
14	ai	101	BCL	C4D-CHA-C1A	5.22	127.60	121.25
14	bj	103	BCL	C4D-CHA-C1A	5.22	127.60	121.25
14	BL	1003	BCL	C4D-CHA-C1A	5.22	127.60	121.25
14	bo	103	BCL	C4D-CHA-C1A	5.21	127.59	121.25
14	L	1002	BCL	C4D-CHA-C1A	5.21	127.58	121.25
14	AN	102	BCL	C4D-CHA-C1A	5.20	127.58	121.25
14	ad	1001	BCL	C4D-CHA-C1A	5.20	127.58	121.25
14	aj	103	BCL	C4D-CHA-C1A	5.20	127.58	121.25
17	C	402	HEC	CMC-C2C-C1C	-5.20	120.47	128.46
14	BQ	1003	BCL	C4D-CHA-C1A	5.20	127.58	121.25
14	ab	102	BCL	C4D-CHA-C1A	5.20	127.57	121.25
14	bg	105	BCL	C4D-CHA-C1A	5.20	127.57	121.25
14	AB	1001	BCL	C4D-CHA-C1A	5.19	127.57	121.25
14	BH	1005	BCL	C4D-CHA-C1A	5.19	127.57	121.25
14	AH	101	BCL	CHD-C1D-ND	-5.19	119.69	124.45
14	ah	1001	BCL	C4D-CHA-C1A	5.19	127.56	121.25
14	bh	105	BCL	C4D-CHA-C1A	5.19	127.56	121.25
14	AF	1001	BCL	C4D-CHA-C1A	5.18	127.55	121.25
14	AA	1002	BCL	CHD-C1D-ND	-5.18	119.69	124.45
14	bp	102	BCL	C4D-CHA-C1A	5.18	127.55	121.25
14	AQ	102	BCL	C4D-CHA-C1A	5.18	127.55	121.25
14	ap	1001	BCL	C4D-CHA-C1A	5.17	127.54	121.25
14	bf	103	BCL	C4D-CHA-C1A	5.17	127.54	121.25
14	bn	103	BCL	C4D-CHA-C1A	5.16	127.53	121.25
14	AE	1001	BCL	C4D-CHA-C1A	5.15	127.52	121.25
14	AI	103	BCL	C4D-CHA-C1A	5.15	127.52	121.25
14	AR	101	BCL	C4D-CHA-C1A	5.15	127.51	121.25
14	ak	1001	BCL	C4D-CHA-C1A	5.15	127.51	121.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	bb	104	BCL	C4D-CHA-C1A	5.13	127.50	121.25
14	AH	103	BCL	C4D-CHA-C1A	5.13	127.49	121.25
14	BG	1004	BCL	CHD-C1D-ND	-5.13	119.74	124.45
14	ba	103	BCL	C4D-CHA-C1A	5.12	127.48	121.25
14	AK	101	BCL	CHD-C1D-ND	-5.11	119.76	124.45
14	BR	1004	BCL	CHD-C1D-ND	-5.10	119.76	124.45
14	AL	103	BCL	C4D-CHA-C1A	5.09	127.45	121.25
16	bj	101	V7N	C29-C28-C27	-5.09	107.32	123.22
14	BN	103	BCL	CHD-C1D-ND	-5.09	119.78	124.45
14	AS	104	BCL	C4D-CHA-C1A	5.08	127.43	121.25
14	AD	102	BCL	C4D-CHA-C1A	5.07	127.42	121.25
14	BC	104	BCL	CHD-C1D-ND	-5.07	119.80	124.45
14	bd	102	BCL	C4D-CHA-C1A	5.06	127.41	121.25
14	AI	102	BCL	C4D-CHA-C1A	5.06	127.41	121.25
14	AC	101	BCL	CHD-C1D-ND	-5.06	119.81	124.45
14	AU	102	BCL	C4D-CHA-C1A	5.05	127.40	121.25
14	BJ	1002	BCL	CHD-C1D-ND	-5.05	119.81	124.45
14	AJ	101	BCL	C4D-CHA-C1A	5.05	127.39	121.25
14	BE	104	BCL	C4D-CHA-C1A	5.04	127.39	121.25
14	AL	101	BCL	CHD-C1D-ND	-5.04	119.82	124.45
14	M	408	BCL	C4D-CHA-C1A	5.04	127.38	121.25
14	AK	101	BCL	C4D-CHA-C1A	5.04	127.38	121.25
14	AT	101	BCL	C4D-CHA-C1A	5.04	127.38	121.25
14	ac	1001	BCL	C4D-CHA-C1A	5.03	127.38	121.25
14	BQ	1003	BCL	CHD-C1D-ND	-5.03	119.83	124.45
14	AO	1002	BCL	C4D-CHA-C1A	5.02	127.36	121.25
14	AS	102	BCL	CHD-C1D-ND	-5.02	119.84	124.45
14	AC	103	BCL	CHD-C1D-ND	-5.02	119.84	124.45
14	AQ	101	BCL	CHD-C1D-ND	-5.01	119.85	124.45
14	BP	1005	BCL	CHD-C1D-ND	-5.01	119.85	124.45
14	AP	102	BCL	C4D-CHA-C1A	5.00	127.33	121.25
14	AS	103	BCL	C4D-CHA-C1A	5.00	127.33	121.25
14	BU	1004	BCL	CHD-C1D-ND	-4.99	119.86	124.45
14	L	1010	BCL	CHD-C1D-ND	-4.99	119.87	124.45
14	BF	102	BCL	CHD-C1D-ND	-4.99	119.87	124.45
14	BM	1002	BCL	CHD-C1D-ND	-4.99	119.87	124.45
14	AC	102	BCL	C4D-CHA-C1A	4.99	127.32	121.25
14	AM	101	BCL	C4D-CHA-C1A	4.99	127.32	121.25
14	BS	1003	BCL	CHD-C1D-ND	-4.98	119.88	124.45
16	BC	101	V7N	C28-C27-C26	-4.97	112.46	126.42
14	AS	104	BCL	CHD-C1D-ND	-4.97	119.89	124.45
14	BH	1005	BCL	CHD-C1D-ND	-4.97	119.89	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AU	103	BCL	CHD-C1D-ND	-4.97	119.89	124.45
14	AJ	102	BCL	CHD-C1D-ND	-4.96	119.90	124.45
14	AP	103	BCL	CHD-C1D-ND	-4.95	119.90	124.45
14	M	405	BCL	CHD-C1D-ND	-4.94	119.91	124.45
14	aj	103	BCL	CHD-C1D-ND	-4.94	119.92	124.45
14	BK	1006	BCL	CHD-C1D-ND	-4.93	119.92	124.45
14	ai	101	BCL	CHD-C1D-ND	-4.93	119.92	124.45
14	BI	1003	BCL	CHD-C1D-ND	-4.93	119.93	124.45
14	BO	1004	BCL	CHD-C1D-ND	-4.93	119.93	124.45
14	AK	102	BCL	C4D-CHA-C1A	4.93	127.24	121.25
14	BB	103	BCL	CHD-C1D-ND	-4.92	119.94	124.45
14	AR	102	BCL	CHD-C1D-ND	-4.92	119.94	124.45
14	be	105	BCL	CHD-C1D-ND	-4.91	119.94	124.45
14	AR	102	BCL	C4D-CHA-C1A	4.91	127.22	121.25
16	ba	101	V7N	C28-C27-C26	-4.90	112.65	126.42
16	bo	102	V7N	C28-C27-C26	-4.90	112.66	126.42
14	BW	1003	BCL	CHD-C1D-ND	-4.90	119.95	124.45
14	ad	1001	BCL	CHD-C1D-ND	-4.89	119.96	124.45
14	AN	101	BCL	CHD-C1D-ND	-4.89	119.96	124.45
14	am	1001	BCL	CHD-C1D-ND	-4.89	119.96	124.45
14	ap	1001	BCL	CHD-C1D-ND	-4.89	119.96	124.45
14	AJ	101	BCL	CHD-C1D-ND	-4.89	119.96	124.45
14	AE	1004	BCL	C4D-CHA-C1A	4.88	127.18	121.25
14	ag	1001	BCL	CHD-C1D-ND	-4.87	119.97	124.45
16	BW	1001	V7N	C29-C28-C27	-4.87	108.01	123.22
14	BL	1003	BCL	CHD-C1D-ND	-4.87	119.98	124.45
14	AV	102	BCL	C4D-CHA-C1A	4.87	127.17	121.25
14	bc	102	BCL	CHD-C1D-ND	-4.87	119.98	124.45
14	al	1001	BCL	CHD-C1D-ND	-4.86	119.99	124.45
14	AG	102	BCL	C4D-CHA-C1A	4.86	127.17	121.25
14	BT	103	BCL	CHD-C1D-ND	-4.86	119.99	124.45
14	bj	103	BCL	CHD-C1D-ND	-4.86	119.99	124.45
14	an	1001	BCL	CHD-C1D-ND	-4.85	120.00	124.45
14	AM	102	BCL	CHD-C1D-ND	-4.85	120.00	124.45
14	BA	103	BCL	CHD-C1D-ND	-4.85	120.00	124.45
14	BD	105	BCL	CHD-C1D-ND	-4.84	120.01	124.45
14	AV	101	BCL	CHD-C1D-ND	-4.83	120.01	124.45
14	ae	102	BCL	CHD-C1D-ND	-4.83	120.02	124.45
15	AT	102	LMT	C1-O1'-C1'	4.83	121.84	113.84
14	ao	102	BCL	CHD-C1D-ND	-4.82	120.02	124.45
14	AV	103	BCL	C4D-CHA-C1A	4.82	127.12	121.25
14	aa	1001	BCL	CHD-C1D-ND	-4.82	120.03	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	ac	1001	BCL	CHD-C1D-ND	-4.82	120.03	124.45
14	af	101	BCL	CHD-C1D-ND	-4.82	120.03	124.45
14	BX	1002	BCL	CHD-C1D-ND	-4.82	120.03	124.45
14	bk	102	BCL	CHD-C1D-ND	-4.82	120.03	124.45
14	ah	1001	BCL	CHD-C1D-ND	-4.81	120.03	124.45
14	AD	102	BCL	CHD-C1D-ND	-4.81	120.03	124.45
14	BV	1005	BCL	CHD-C1D-ND	-4.80	120.04	124.45
14	bg	105	BCL	CHD-C1D-ND	-4.79	120.05	124.45
14	AE	1003	BCL	CHD-C1D-ND	-4.78	120.06	124.45
14	bn	103	BCL	CHD-C1D-ND	-4.78	120.06	124.45
14	AU	103	BCL	C4D-CHA-C1A	4.78	127.07	121.25
14	bf	103	BCL	CHD-C1D-ND	-4.78	120.06	124.45
14	bo	103	BCL	CHD-C1D-ND	-4.78	120.06	124.45
14	bb	104	BCL	CHD-C1D-ND	-4.77	120.07	124.45
14	ab	102	BCL	CHD-C1D-ND	-4.77	120.07	124.45
14	AW	101	BCL	CHD-C1D-ND	-4.76	120.08	124.45
14	bh	105	BCL	CHD-C1D-ND	-4.76	120.08	124.45
14	AA	1001	BCL	C4D-CHA-C1A	4.76	127.04	121.25
14	BE	104	BCL	CHD-C1D-ND	-4.76	120.08	124.45
14	bd	102	BCL	CHD-C1D-ND	-4.75	120.09	124.45
14	L	1010	BCL	C4D-CHA-C1A	4.74	127.02	121.25
21	M	402	CD4	O2-C14-C13	4.74	121.72	111.50
14	AB	1002	BCL	CMB-C2B-C1B	-4.74	121.18	128.46
16	BM	1001	V7N	C28-C27-C26	-4.73	113.12	126.42
14	bp	102	BCL	CHD-C1D-ND	-4.73	120.11	124.45
14	AF	1001	BCL	CHD-C1D-ND	-4.72	120.11	124.45
14	bl	104	BCL	CHD-C1D-ND	-4.72	120.11	124.45
14	AE	1003	BCL	C4D-CHA-C1A	4.72	126.99	121.25
14	ak	1001	BCL	CHD-C1D-ND	-4.72	120.12	124.45
14	bi	104	BCL	CHD-C1D-ND	-4.71	120.12	124.45
14	ba	103	BCL	CHD-C1D-ND	-4.71	120.13	124.45
16	BP	1001	V7N	C28-C27-C26	-4.69	113.23	126.42
16	bd	101	V7N	C29-C28-C27	-4.69	108.59	123.22
14	AH	103	BCL	CHD-C1D-ND	-4.69	120.15	124.45
14	AM	101	BCL	CHD-C1D-ND	-4.67	120.16	124.45
14	AB	1002	BCL	C4D-CHA-C1A	4.67	126.94	121.25
14	AS	103	BCL	CHD-C1D-ND	-4.67	120.16	124.45
16	bf	101	V7N	C28-C27-C26	-4.67	113.31	126.42
14	AI	102	BCL	CHD-C1D-ND	-4.67	120.17	124.45
14	AA	1001	BCL	CHD-C1D-ND	-4.66	120.17	124.45
14	AN	102	BCL	CHD-C1D-ND	-4.65	120.18	124.45
14	AT	101	BCL	CHD-C1D-ND	-4.65	120.18	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AU	102	BCL	CHD-C1D-ND	-4.64	120.19	124.45
14	AG	102	BCL	CHD-C1D-ND	-4.64	120.19	124.45
14	AB	1001	BCL	CHD-C1D-ND	-4.64	120.19	124.45
14	AC	102	BCL	CHD-C1D-ND	-4.63	120.20	124.45
14	AO	1002	BCL	CHD-C1D-ND	-4.63	120.20	124.45
17	C	404	HEC	CMC-C2C-C1C	-4.63	121.35	128.46
14	AR	101	BCL	CHD-C1D-ND	-4.62	120.20	124.45
14	bm	104	BCL	CHD-C1D-ND	-4.62	120.20	124.45
14	AE	1001	BCL	CHD-C1D-ND	-4.61	120.22	124.45
14	AQ	102	BCL	CHD-C1D-ND	-4.60	120.22	124.45
16	BJ	1001	V7N	C28-C27-C26	-4.59	113.51	126.42
14	AV	102	BCL	CHD-C1D-ND	-4.59	120.24	124.45
14	AK	102	BCL	CHD-C1D-ND	-4.58	120.24	124.45
14	AX	103	BCL	CHD-C1D-ND	-4.57	120.25	124.45
14	AL	103	BCL	CHD-C1D-ND	-4.57	120.26	124.45
16	BR	1001	V7N	C28-C27-C26	-4.56	113.60	126.42
16	bk	101	V7N	C29-C28-C27	-4.54	109.05	123.22
16	bi	101	V7N	C29-C28-C27	-4.49	109.19	123.22
14	AP	102	BCL	CHD-C1D-ND	-4.49	120.33	124.45
16	BE	101	V7N	C29-C28-C27	-4.49	109.21	123.22
17	C	402	HEC	CBD-CAD-C3D	-4.48	104.97	112.62
21	ae	101	CD4	O2-C14-C13	4.48	121.16	111.50
16	bl	102	V7N	C29-C28-C27	-4.48	109.23	123.22
18	C	405	V75	O3-C3A-C3B	4.47	119.32	111.09
14	AI	103	BCL	C1-O2A-CGA	4.47	128.16	116.44
16	BK	1001	V7N	C28-C27-C26	-4.46	113.88	126.42
14	AS	104	BCL	C1-O2A-CGA	4.46	128.14	116.44
14	ag	1001	BCL	CMB-C2B-C1B	-4.45	121.62	128.46
16	bc	101	V7N	C29-C28-C27	-4.44	109.36	123.22
16	BH	1001	V7N	C28-C27-C26	-4.44	113.96	126.42
16	BG	1001	V7N	C28-C27-C26	-4.44	113.96	126.42
20	bg	102	0V9	C2-O2-C10	4.42	128.67	117.79
14	ak	1001	BCL	CMB-C2B-C1B	-4.40	121.69	128.46
18	M	409	V75	O3-C3A-C3B	4.39	119.17	111.09
16	BL	1001	V7N	C28-C27-C26	-4.39	114.10	126.42
16	BD	101	V7N	C28-C27-C26	-4.37	114.15	126.42
14	aj	103	BCL	CMB-C2B-C1B	-4.35	121.78	128.46
14	ba	103	BCL	CMB-C2B-C1B	-4.35	121.78	128.46
14	ac	1001	BCL	CMB-C2B-C1B	-4.34	121.79	128.46
16	BO	1001	V7N	C29-C28-C27	-4.34	109.66	123.22
18	C	405	V75	O2-C2A-C2B	4.34	119.08	111.09
16	BV	1001	V7N	C28-C27-C26	-4.34	114.23	126.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	M	405	BCL	CMB-C2B-C1B	-4.34	121.80	128.46
14	AM	102	BCL	CMB-C2B-C1B	-4.33	121.80	128.46
14	ap	1001	BCL	CMB-C2B-C1B	-4.33	121.81	128.46
14	ae	102	BCL	CMB-C2B-C1B	-4.32	121.82	128.46
14	am	1001	BCL	CMB-C2B-C1B	-4.32	121.82	128.46
14	ao	102	BCL	CMB-C2B-C1B	-4.31	121.84	128.46
14	aa	1001	BCL	CMB-C2B-C1B	-4.31	121.84	128.46
14	al	1001	BCL	CMB-C2B-C1B	-4.30	121.85	128.46
14	AX	102	BCL	CMB-C2B-C1B	-4.30	121.85	128.46
14	AS	104	BCL	CMB-C2B-C1B	-4.30	121.86	128.46
14	ai	101	BCL	CMB-C2B-C1B	-4.30	121.86	128.46
16	bh	102	V7N	C28-C27-C26	-4.29	114.36	126.42
16	BS	1001	V7N	C28-C27-C26	-4.28	114.41	126.42
14	AI	103	BCL	CMB-C2B-C1B	-4.27	121.89	128.46
14	AQ	101	BCL	CMB-C2B-C1B	-4.27	121.89	128.46
14	ad	1001	BCL	CMB-C2B-C1B	-4.27	121.90	128.46
16	bn	102	V7N	C29-C28-C27	-4.27	109.89	123.22
14	AP	103	BCL	CMB-C2B-C1B	-4.27	121.91	128.46
16	BA	101	V7N	C29-C28-C27	-4.27	109.91	123.22
16	BB	101	V7N	C29-C28-C27	-4.26	109.94	123.22
16	AO	1001	V7N	C28-C27-C26	-4.24	114.49	126.42
14	AV	101	BCL	CMB-C2B-C1B	-4.24	121.94	128.46
14	AR	102	BCL	CMB-C2B-C1B	-4.23	121.95	128.46
14	af	101	BCL	CMB-C2B-C1B	-4.23	121.96	128.46
14	BR	1004	BCL	CMB-C2B-C1B	-4.23	121.96	128.46
14	ah	1001	BCL	CMB-C2B-C1B	-4.23	121.97	128.46
14	bh	105	BCL	CMB-C2B-C1B	-4.22	121.97	128.46
16	BI	1001	V7N	C28-C27-C26	-4.22	114.57	126.42
14	bk	102	BCL	CMB-C2B-C1B	-4.21	121.99	128.46
14	an	1001	BCL	CMB-C2B-C1B	-4.21	121.99	128.46
14	BH	1005	BCL	CMB-C2B-C1B	-4.21	122.00	128.46
14	BO	1004	BCL	CMB-C2B-C1B	-4.20	122.01	128.46
16	BQ	1001	V7N	C29-C28-C27	-4.20	110.12	123.22
14	bg	105	BCL	CMB-C2B-C1B	-4.19	122.02	128.46
14	BQ	1003	BCL	CMB-C2B-C1B	-4.19	122.03	128.46
14	AA	1002	BCL	CMB-C2B-C1B	-4.18	122.04	128.46
14	AC	103	BCL	CMB-C2B-C1B	-4.18	122.04	128.46
14	bj	103	BCL	CMB-C2B-C1B	-4.18	122.04	128.46
18	M	409	V75	O2-C2A-C2B	4.16	118.75	111.09
14	bb	104	BCL	CMB-C2B-C1B	-4.16	122.07	128.46
14	bm	104	BCL	CMB-C2B-C1B	-4.15	122.08	128.46
14	AL	101	BCL	CMB-C2B-C1B	-4.14	122.09	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AJ	102	BCL	CMB-C2B-C1B	-4.14	122.10	128.46
14	BP	1005	BCL	CMB-C2B-C1B	-4.14	122.10	128.46
14	AD	102	BCL	CMB-C2B-C1B	-4.14	122.11	128.46
14	bl	104	BCL	CMB-C2B-C1B	-4.13	122.12	128.46
14	AC	101	BCL	CMB-C2B-C1B	-4.13	122.12	128.46
16	bm	101	V7N	C29-C28-C27	-4.12	110.34	123.22
14	AG	101	BCL	CMB-C2B-C1B	-4.12	122.12	128.46
14	bf	103	BCL	CMB-C2B-C1B	-4.12	122.13	128.46
16	bh	102	V7N	C29-C28-C27	-4.12	110.36	123.22
16	BV	1001	V7N	C29-C28-C27	-4.12	110.37	123.22
14	AB	1001	BCL	CMB-C2B-C1B	-4.12	122.14	128.46
14	AN	104	BCL	CMB-C2B-C1B	-4.11	122.14	128.46
14	BB	103	BCL	CMB-C2B-C1B	-4.11	122.14	128.46
14	bd	102	BCL	CMB-C2B-C1B	-4.11	122.14	128.46
14	BF	102	BCL	CMB-C2B-C1B	-4.10	122.16	128.46
14	bo	103	BCL	CMB-C2B-C1B	-4.10	122.16	128.46
14	AV	103	BCL	CMB-C2B-C1B	-4.10	122.16	128.46
14	AS	102	BCL	CMB-C2B-C1B	-4.10	122.17	128.46
14	bp	102	BCL	CMB-C2B-C1B	-4.10	122.17	128.46
14	AN	101	BCL	CMB-C2B-C1B	-4.09	122.17	128.46
14	BK	1006	BCL	CMB-C2B-C1B	-4.09	122.18	128.46
14	BD	105	BCL	CMB-C2B-C1B	-4.08	122.19	128.46
14	BW	1003	BCL	CMB-C2B-C1B	-4.07	122.21	128.46
14	L	1010	BCL	CMB-C2B-C1B	-4.07	122.21	128.46
16	BB	101	V7N	C28-C27-C26	-4.07	114.99	126.42
14	AU	103	BCL	CMB-C2B-C1B	-4.07	122.21	128.46
14	BE	104	BCL	CMB-C2B-C1B	-4.07	122.21	128.46
14	be	105	BCL	CMB-C2B-C1B	-4.06	122.22	128.46
17	C	401	HEC	CMB-C2B-C1B	-4.06	122.23	128.46
14	BM	1002	BCL	CMB-C2B-C1B	-4.05	122.24	128.46
14	BV	1005	BCL	CMB-C2B-C1B	-4.04	122.25	128.46
14	BX	1002	BCL	CMB-C2B-C1B	-4.04	122.25	128.46
14	BC	104	BCL	CMB-C2B-C1B	-4.04	122.25	128.46
14	BL	1003	BCL	CMB-C2B-C1B	-4.04	122.25	128.46
16	bb	101	V7N	C28-C27-C26	-4.04	115.07	126.42
16	BQ	1001	V7N	C28-C27-C26	-4.03	115.09	126.42
14	AH	101	BCL	CMB-C2B-C1B	-4.03	122.27	128.46
14	AL	101	BCL	C1-C2-C3	-4.02	119.09	126.04
14	BA	103	BCL	CMB-C2B-C1B	-4.02	122.28	128.46
14	bc	102	BCL	CMB-C2B-C1B	-4.02	122.29	128.46
14	BT	103	BCL	CMB-C2B-C1B	-4.01	122.30	128.46
14	BI	1003	BCL	CMB-C2B-C1B	-4.01	122.30	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	bi	104	BCL	CMB-C2B-C1B	-4.00	122.32	128.46
14	bn	103	BCL	CMB-C2B-C1B	-4.00	122.32	128.46
14	BS	1003	BCL	CMB-C2B-C1B	-3.99	122.33	128.46
14	BU	1004	BCL	CMB-C2B-C1B	-3.99	122.33	128.46
16	BM	1001	V7N	C29-C28-C27	-3.99	110.76	123.22
16	BO	1001	V7N	C28-C27-C26	-3.99	115.21	126.42
16	BR	1001	V7N	C7-C6-C5	-3.99	121.62	127.31
16	BD	101	V7N	C29-C28-C27	-3.98	110.78	123.22
16	BG	1001	V7N	C29-C28-C27	-3.97	110.83	123.22
16	bn	102	V7N	C28-C27-C26	-3.97	115.26	126.42
14	BJ	1002	BCL	CMB-C2B-C1B	-3.96	122.38	128.46
16	BJ	1001	V7N	C29-C28-C27	-3.95	110.88	123.22
16	bl	102	V7N	C28-C27-C26	-3.94	115.33	126.42
14	BN	103	BCL	CMB-C2B-C1B	-3.94	122.41	128.46
14	AE	1004	BCL	CMB-C2B-C1B	-3.94	122.41	128.46
14	ac	1001	BCL	C4A-NA-C1A	3.94	108.48	106.71
15	AI	101	LMT	C3'-C4'-C5'	-3.94	101.90	110.93
16	AO	1001	V7N	C7-C6-C5	-3.93	121.71	127.31
14	BG	1004	BCL	CMB-C2B-C1B	-3.91	122.46	128.46
16	AO	1001	V7N	C29-C28-C27	-3.90	111.03	123.22
14	AK	102	BCL	CMB-C2B-C1B	-3.89	122.49	128.46
14	AI	102	BCL	CMB-C2B-C1B	-3.88	122.50	128.46
14	AM	101	BCL	CMB-C2B-C1B	-3.88	122.50	128.46
14	AS	103	BCL	CMB-C2B-C1B	-3.86	122.53	128.46
14	M	405	BCL	C4A-NA-C1A	3.86	108.44	106.71
14	AJ	101	BCL	CMB-C2B-C1B	-3.86	122.53	128.46
14	AH	103	BCL	CMB-C2B-C1B	-3.85	122.54	128.46
14	AE	1003	BCL	CMB-C2B-C1B	-3.85	122.54	128.46
14	AW	101	BCL	CMB-C2B-C1B	-3.85	122.54	128.46
14	AG	102	BCL	CMB-C2B-C1B	-3.85	122.55	128.46
14	AC	102	BCL	CMB-C2B-C1B	-3.84	122.56	128.46
14	AK	101	BCL	CMB-C2B-C1B	-3.84	122.57	128.46
14	AL	103	BCL	CMB-C2B-C1B	-3.83	122.57	128.46
16	BS	1001	V7N	C29-C28-C27	-3.83	111.26	123.22
14	AT	101	BCL	CMB-C2B-C1B	-3.83	122.58	128.46
14	AV	102	BCL	CMB-C2B-C1B	-3.83	122.58	128.46
14	L	1002	BCL	C1D-ND-C4D	-3.82	103.62	106.33
14	AN	102	BCL	CMB-C2B-C1B	-3.82	122.60	128.46
14	AU	102	BCL	CMB-C2B-C1B	-3.82	122.60	128.46
14	AA	1001	BCL	CMB-C2B-C1B	-3.81	122.60	128.46
14	AF	1001	BCL	CMB-C2B-C1B	-3.81	122.60	128.46
17	C	402	HEC	CMB-C2B-C1B	-3.81	122.61	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AO	1002	BCL	CMB-C2B-C1B	-3.81	122.61	128.46
17	C	403	HEC	CBD-CAD-C3D	-3.80	106.14	112.62
14	AE	1001	BCL	CMB-C2B-C1B	-3.80	122.63	128.46
21	ae	101	CD4	O3-C16-C15	3.78	119.44	108.43
14	AQ	102	BCL	CMB-C2B-C1B	-3.78	122.66	128.46
16	AE	1005	V7N	C15-C14-C13	-3.78	121.92	127.31
14	AX	103	BCL	CMB-C2B-C1B	-3.78	122.66	128.46
16	BH	1001	V7N	C29-C28-C27	-3.78	111.43	123.22
14	AB	1002	BCL	C1D-ND-C4D	-3.78	103.65	106.33
14	ab	102	BCL	CMB-C2B-C1B	-3.77	122.67	128.46
14	AP	102	BCL	CMB-C2B-C1B	-3.77	122.68	128.46
16	bm	101	V7N	C28-C27-C26	-3.75	115.88	126.42
14	AR	101	BCL	CMB-C2B-C1B	-3.74	122.71	128.46
15	BI	1006	LMT	C1-O1'-C1'	3.74	120.04	113.84
16	BA	101	V7N	C28-C27-C26	-3.73	115.93	126.42
16	BU	1001	V7N	C7-C6-C5	3.72	132.62	127.31
16	ba	101	V7N	C38-C26-C27	-3.72	112.22	118.08
14	AP	103	BCL	C4A-NA-C1A	3.70	108.37	106.71
14	AR	101	BCL	C4A-NA-C1A	3.70	108.37	106.71
14	ae	102	BCL	C4A-NA-C1A	3.70	108.37	106.71
16	ba	101	V7N	C29-C28-C27	-3.70	111.68	123.22
14	M	408	BCL	C1D-ND-C4D	-3.68	103.72	106.33
14	bp	102	BCL	C4A-NA-C1A	3.66	108.35	106.71
14	BH	1005	BCL	C4A-NA-C1A	3.66	108.35	106.71
14	aj	103	BCL	C4A-NA-C1A	3.65	108.35	106.71
14	ah	1001	BCL	C4A-NA-C1A	3.65	108.35	106.71
17	C	404	HEC	CMB-C2B-C1B	-3.65	122.86	128.46
14	BL	1003	BCL	C4A-NA-C1A	3.64	108.34	106.71
14	AH	103	BCL	C4A-NA-C1A	3.64	108.34	106.71
14	AX	102	BCL	C4A-NA-C1A	3.62	108.33	106.71
14	M	408	BCL	CMB-C2B-C1B	-3.61	122.91	128.46
17	C	401	HEC	CMB-C2B-C3B	3.61	130.06	125.82
16	BL	1001	V7N	C29-C28-C27	-3.60	111.98	123.22
14	aa	1001	BCL	C4A-NA-C1A	3.60	108.32	106.71
14	ai	101	BCL	C4A-NA-C1A	3.58	108.32	106.71
14	AU	103	BCL	C4A-NA-C1A	3.58	108.31	106.71
14	AH	101	BCL	C1D-ND-C4D	-3.57	103.80	106.33
14	AL	103	BCL	C4A-NA-C1A	3.57	108.31	106.71
14	AV	101	BCL	C4A-NA-C1A	3.57	108.31	106.71
15	BW	1005	LMT	C3'-C4'-C5'	-3.57	102.74	110.93
14	AA	1001	BCL	C4A-NA-C1A	3.57	108.31	106.71
15	BN	102	LMT	C1-O1'-C1'	3.56	119.75	113.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AQ	101	BCL	C1-C2-C3	-3.56	119.89	126.04
14	AI	103	BCL	C1D-ND-C4D	-3.55	103.81	106.33
14	BJ	1002	BCL	C4A-NA-C1A	3.55	108.30	106.71
14	al	1001	BCL	C4A-NA-C1A	3.54	108.30	106.71
17	C	403	HEC	CMB-C2B-C1B	-3.53	123.03	128.46
14	BN	103	BCL	O2A-C1-C2	-3.53	99.35	108.64
14	AG	102	BCL	C4A-NA-C1A	3.53	108.29	106.71
14	ad	1001	BCL	C4A-NA-C1A	3.51	108.29	106.71
14	aj	103	BCL	C1D-ND-C4D	-3.51	103.84	106.33
14	BC	104	BCL	C4A-NA-C1A	3.51	108.28	106.71
16	BR	1001	V7N	C29-C28-C27	-3.50	112.28	123.22
14	AN	101	BCL	C4A-NA-C1A	3.50	108.28	106.71
23	ao	101	MQ8	C12-C11-C3	3.50	121.47	112.05
14	bc	102	BCL	C4A-NA-C1A	3.49	108.28	106.71
14	am	1001	BCL	C4A-NA-C1A	3.49	108.27	106.71
16	bc	101	V7N	C28-C27-C26	-3.49	116.62	126.42
14	BN	103	BCL	C1D-ND-C4D	-3.48	103.86	106.33
14	ak	1001	BCL	C4A-NA-C1A	3.48	108.27	106.71
14	AD	102	BCL	C4A-NA-C1A	3.48	108.27	106.71
21	aj	102	CD4	O16-C46-C47	3.48	118.99	111.50
14	AS	104	BCL	C1D-ND-C4D	-3.47	103.87	106.33
14	AE	1004	BCL	C4A-NA-C1A	3.47	108.27	106.71
14	AK	101	BCL	C1D-ND-C4D	-3.47	103.87	106.33
14	AH	101	BCL	C4A-NA-C1A	3.46	108.26	106.71
14	L	1002	BCL	CMB-C2B-C1B	-3.46	123.14	128.46
16	bj	101	V7N	C28-C27-C26	-3.46	116.70	126.42
14	AX	103	BCL	CHA-C1A-NA	-3.46	118.48	126.40
14	ag	1001	BCL	C4A-NA-C1A	3.46	108.26	106.71
16	BX	1001	V7N	C15-C14-C13	-3.46	122.38	127.31
16	BH	1001	V7N	C7-C6-C5	-3.45	122.38	127.31
14	BR	1004	BCL	C1D-ND-C4D	-3.45	103.88	106.33
14	BC	104	BCL	C1D-ND-C4D	-3.45	103.89	106.33
14	ab	102	BCL	C4A-NA-C1A	3.45	108.26	106.71
16	AE	1005	V7N	C35-C13-C14	-3.44	118.10	122.92
14	BE	104	BCL	C4A-NA-C1A	3.44	108.25	106.71
21	ae	101	CD4	O16-C46-C47	3.44	118.92	111.50
15	BD	103	LMT	C1-O1'-C1'	3.44	119.55	113.84
14	AF	1001	BCL	C4A-NA-C1A	3.44	108.25	106.71
16	BW	1001	V7N	C28-C27-C26	-3.44	116.76	126.42
15	AA	1003	LMT	C3'-C4'-C5'	-3.44	103.05	110.93
14	BG	1004	BCL	C1D-ND-C4D	-3.43	103.89	106.33
14	ap	1001	BCL	C4A-NA-C1A	3.43	108.25	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AK	102	BCL	C4A-NA-C1A	3.43	108.25	106.71
14	AU	102	BCL	C4A-NA-C1A	3.43	108.25	106.71
14	AR	102	BCL	C4A-NA-C1A	3.43	108.25	106.71
14	AX	102	BCL	C1D-ND-C4D	-3.42	103.90	106.33
14	af	101	BCL	C4A-NA-C1A	3.42	108.24	106.71
15	AC	104	LMT	C1-O1'-C1'	3.42	119.51	113.84
14	AL	101	BCL	C1D-ND-C4D	-3.41	103.91	106.33
14	AI	102	BCL	C4A-NA-C1A	3.41	108.24	106.71
16	BI	1001	V7N	C29-C28-C27	-3.41	112.58	123.22
14	BI	1003	BCL	O2A-C1-C2	-3.41	99.68	108.64
14	AT	101	BCL	C4A-NA-C1A	3.41	108.24	106.71
15	L	1004	LMT	C1-O1'-C1'	3.40	119.48	113.84
14	AQ	101	BCL	CAA-CBA-CGA	3.40	123.19	113.25
14	AM	102	BCL	C1D-ND-C4D	-3.40	103.92	106.33
14	AM	101	BCL	C4A-NA-C1A	3.40	108.23	106.71
14	BX	1002	BCL	C4A-NA-C1A	3.40	108.23	106.71
14	BN	103	BCL	C4A-NA-C1A	3.39	108.23	106.71
16	BB	101	V7N	C15-C14-C13	-3.39	122.47	127.31
14	AQ	101	BCL	C1D-ND-C4D	-3.39	103.93	106.33
15	AP	101	LMT	O1'-C1'-C2'	3.39	113.59	108.30
14	BF	102	BCL	C1D-ND-C4D	-3.38	103.93	106.33
14	AO	1002	BCL	C4A-NA-C1A	3.38	108.23	106.71
14	BI	1003	BCL	C4A-NA-C1A	3.38	108.23	106.71
14	BT	103	BCL	C4A-NA-C1A	3.38	108.22	106.71
14	aa	1001	BCL	C1D-ND-C4D	-3.38	103.94	106.33
14	ad	1001	BCL	C1D-ND-C4D	-3.37	103.94	106.33
14	ac	1001	BCL	C1D-ND-C4D	-3.36	103.95	106.33
14	AA	1002	BCL	C1D-ND-C4D	-3.36	103.95	106.33
14	BQ	1003	BCL	C1D-ND-C4D	-3.36	103.95	106.33
14	ao	102	BCL	C1D-ND-C4D	-3.36	103.95	106.33
14	AG	101	BCL	C1D-ND-C4D	-3.36	103.95	106.33
14	M	405	BCL	C1D-ND-C4D	-3.36	103.95	106.33
14	AQ	102	BCL	C4A-NA-C1A	3.35	108.21	106.71
14	ak	1001	BCL	C1D-ND-C4D	-3.35	103.95	106.33
14	AN	101	BCL	C1D-ND-C4D	-3.35	103.95	106.33
16	BE	101	V7N	C28-C27-C26	-3.34	117.03	126.42
14	ap	1001	BCL	C1D-ND-C4D	-3.34	103.96	106.33
14	BI	1003	BCL	C1D-ND-C4D	-3.34	103.96	106.33
14	an	1001	BCL	C1D-ND-C4D	-3.34	103.96	106.33
16	ba	101	V7N	C3-C4-C5	3.34	130.94	125.89
14	AS	104	BCL	C4A-NA-C1A	3.34	108.21	106.71
14	BJ	1002	BCL	C1D-ND-C4D	-3.34	103.97	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	ab	102	BCL	C1D-ND-C4D	-3.34	103.97	106.33
14	BM	1002	BCL	C1D-ND-C4D	-3.33	103.97	106.33
16	bn	102	V7N	C36-C18-C17	-3.33	118.25	122.92
21	H1	102	CD4	C15-O2-C14	3.33	125.99	117.79
16	bb	101	V7N	C36-C18-C17	-3.33	118.26	122.92
14	am	1001	BCL	C1D-ND-C4D	-3.33	103.97	106.33
14	AU	103	BCL	C1D-ND-C4D	-3.33	103.97	106.33
16	BC	101	V7N	C29-C28-C27	-3.33	112.84	123.22
14	BH	1005	BCL	C1D-ND-C4D	-3.32	103.97	106.33
14	ag	1001	BCL	C1D-ND-C4D	-3.32	103.97	106.33
14	af	101	BCL	C1D-ND-C4D	-3.32	103.98	106.33
14	bj	103	BCL	C1D-ND-C4D	-3.32	103.98	106.33
16	bd	101	V7N	O44-C40-O45	-3.31	116.02	123.61
14	ai	101	BCL	C1D-ND-C4D	-3.31	103.98	106.33
14	BP	1005	BCL	C1D-ND-C4D	-3.31	103.98	106.33
14	bc	102	BCL	C1D-ND-C4D	-3.31	103.98	106.33
15	BG	1002	LMT	C1-O1'-C1'	3.31	119.33	113.84
14	AS	103	BCL	C4A-NA-C1A	3.31	108.19	106.71
16	BM	1001	V7N	C38-C26-C27	-3.30	112.87	118.08
15	bb	102	LMT	C3'-C4'-C5'	-3.30	103.35	110.93
14	ah	1001	BCL	C1D-ND-C4D	-3.30	103.99	106.33
14	al	1001	BCL	C1D-ND-C4D	-3.30	103.99	106.33
16	ba	101	V7N	O44-C40-O45	-3.30	116.06	123.61
14	AE	1004	BCL	C1D-ND-C4D	-3.30	103.99	106.33
14	BS	1003	BCL	C1D-ND-C4D	-3.30	103.99	106.33
14	ae	102	BCL	C1D-ND-C4D	-3.29	104.00	106.33
14	BD	105	BCL	C1D-ND-C4D	-3.29	104.00	106.33
14	AC	102	BCL	C4A-NA-C1A	3.29	108.19	106.71
14	AJ	101	BCL	C4A-NA-C1A	3.29	108.19	106.71
14	BU	1004	BCL	C1D-ND-C4D	-3.28	104.00	106.33
14	AE	1001	BCL	C4A-NA-C1A	3.28	108.18	106.71
14	AW	101	BCL	C4A-NA-C1A	3.28	108.18	106.71
15	BK	1005	LMT	C1-O1'-C1'	3.28	119.28	113.84
16	bn	102	V7N	O44-C40-O45	-3.28	116.10	123.61
16	BM	1001	V7N	C15-C14-C13	-3.28	122.63	127.31
14	BT	103	BCL	C1D-ND-C4D	-3.28	104.01	106.33
14	BL	1003	BCL	C1D-ND-C4D	-3.27	104.01	106.33
14	BO	1004	BCL	C4A-NA-C1A	3.27	108.18	106.71
14	bi	104	BCL	C4A-NA-C1A	3.27	108.18	106.71
14	AB	1002	BCL	CMB-C2B-C3B	3.26	130.78	124.68
14	AP	103	BCL	C1D-ND-C4D	-3.26	104.02	106.33
16	BE	101	V7N	O44-C40-O45	-3.26	116.16	123.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BK	1006	BCL	C1D-ND-C4D	-3.25	104.02	106.33
21	M	402	CD4	O16-C46-C47	3.25	118.51	111.50
16	bk	101	V7N	C28-C27-C26	-3.25	117.28	126.42
14	L	1010	BCL	C1D-ND-C4D	-3.25	104.02	106.33
14	M	405	BCL	CHA-C1A-NA	-3.25	118.95	126.40
14	bl	104	BCL	C1D-ND-C4D	-3.25	104.03	106.33
14	bp	102	BCL	C1D-ND-C4D	-3.25	104.03	106.33
14	BW	1003	BCL	C4A-NA-C1A	3.25	108.17	106.71
16	BO	1001	V7N	C7-C6-C5	-3.24	122.68	127.31
14	BF	102	BCL	C4A-NA-C1A	3.24	108.16	106.71
14	be	105	BCL	C1D-ND-C4D	-3.24	104.03	106.33
16	bo	102	V7N	O44-C40-O45	-3.24	116.20	123.61
14	BI	1003	BCL	C11-C10-C8	3.24	126.39	115.92
14	AB	1001	BCL	C4A-NA-C1A	3.24	108.16	106.71
14	AL	101	BCL	C4A-NA-C1A	3.24	108.16	106.71
14	AJ	102	BCL	C1-O2A-CGA	3.24	124.94	116.44
16	bp	101	V7N	O44-C40-O45	-3.24	116.20	123.61
16	BH	1001	V7N	O44-C40-O45	-3.24	116.20	123.61
24	L	1006	V7B	O7-C10-C11	3.23	118.47	111.50
14	BS	1003	BCL	C4A-NA-C1A	3.23	108.16	106.71
16	bi	101	V7N	O44-C40-O45	-3.23	116.21	123.61
16	bc	101	V7N	O44-C40-O45	-3.23	116.21	123.61
16	AO	1001	V7N	O44-C40-O45	-3.23	116.22	123.61
16	bm	101	V7N	O44-C40-O45	-3.23	116.22	123.61
14	AJ	101	BCL	C1D-ND-C4D	-3.23	104.04	106.33
16	BL	1001	V7N	O44-C40-O45	-3.23	116.22	123.61
14	BB	103	BCL	C1D-ND-C4D	-3.23	104.04	106.33
14	BW	1003	BCL	C1D-ND-C4D	-3.23	104.04	106.33
16	AE	1005	V7N	O44-C40-O45	-3.22	116.23	123.61
16	bb	101	V7N	O44-C40-O45	-3.22	116.23	123.61
16	BA	101	V7N	O44-C40-O45	-3.22	116.24	123.61
14	ag	1001	BCL	CMB-C2B-C3B	3.22	130.70	124.68
14	AQ	102	BCL	CHA-C1A-NA	-3.22	119.03	126.40
16	bd	101	V7N	C28-C27-C26	-3.22	117.38	126.42
14	BX	1002	BCL	C1D-ND-C4D	-3.22	104.05	106.33
14	AI	103	BCL	C1-C2-C3	-3.22	120.48	126.04
14	AV	103	BCL	C1D-ND-C4D	-3.21	104.05	106.33
14	BO	1004	BCL	C1D-ND-C4D	-3.21	104.06	106.33
16	BM	1001	V7N	O44-C40-O45	-3.21	116.27	123.61
14	bf	103	BCL	C1D-ND-C4D	-3.21	104.06	106.33
16	BS	1001	V7N	O44-C40-O45	-3.21	116.27	123.61
16	bg	101	V7N	O44-C40-O45	-3.21	116.27	123.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AR	102	BCL	C1D-ND-C4D	-3.20	104.06	106.33
16	BQ	1001	V7N	O44-C40-O45	-3.20	116.28	123.61
14	bi	104	BCL	C1D-ND-C4D	-3.20	104.06	106.33
16	BK	1001	V7N	O44-C40-O45	-3.20	116.29	123.61
14	AM	101	BCL	C1D-ND-C4D	-3.20	104.06	106.33
14	AN	104	BCL	C1D-ND-C4D	-3.20	104.06	106.33
21	aj	102	CD4	C28-C15-C16	-3.20	104.23	111.79
14	ao	102	BCL	C4A-NA-C1A	3.20	108.14	106.71
16	bb	101	V7N	C16-C17-C18	-3.20	122.75	127.31
14	AJ	102	BCL	C4A-NA-C1A	3.19	108.14	106.71
14	AJ	102	BCL	C1D-ND-C4D	-3.19	104.07	106.33
16	BW	1001	V7N	O44-C40-O45	-3.19	116.31	123.61
25	L	1009	BPH	OBD-CAD-CBD	-3.19	121.14	125.82
14	AP	102	BCL	CHA-C1A-NA	-3.19	119.10	126.40
16	BL	1001	V7N	C15-C14-C13	-3.19	122.76	127.31
14	AK	102	BCL	CHA-C1A-NA	-3.19	119.10	126.40
16	BV	1001	V7N	O44-C40-O45	-3.18	116.32	123.61
14	AK	101	BCL	C4A-NA-C1A	3.18	108.14	106.71
16	BU	1001	V7N	C35-C13-C14	-3.18	118.47	122.92
16	bf	101	V7N	O44-C40-O45	-3.18	116.33	123.61
16	BJ	1001	V7N	O44-C40-O45	-3.18	116.33	123.61
14	bh	105	BCL	CHA-C1A-NA	-3.18	119.12	126.40
16	BB	101	V7N	O44-C40-O45	-3.18	116.34	123.61
16	AE	1005	V7N	C29-C28-C27	-3.18	113.31	123.22
24	L	1006	V7B	C1-O6-C5	3.18	119.92	113.69
14	AS	102	BCL	C1D-ND-C4D	-3.18	104.08	106.33
14	bd	102	BCL	C1D-ND-C4D	-3.18	104.08	106.33
16	BC	101	V7N	O44-C40-O45	-3.17	116.34	123.61
14	AA	1001	BCL	C1D-ND-C4D	-3.17	104.08	106.33
14	BA	103	BCL	C1D-ND-C4D	-3.17	104.08	106.33
16	be	101	V7N	O44-C40-O45	-3.17	116.35	123.61
14	AQ	101	BCL	C4A-NA-C1A	3.17	108.13	106.71
16	bk	101	V7N	O44-C40-O45	-3.17	116.35	123.61
14	AE	1003	BCL	C1D-ND-C4D	-3.17	104.08	106.33
16	BO	1001	V7N	O44-C40-O45	-3.17	116.36	123.61
14	AB	1001	BCL	C1D-ND-C4D	-3.17	104.08	106.33
14	ba	103	BCL	C1D-ND-C4D	-3.17	104.08	106.33
14	bb	104	BCL	C1D-ND-C4D	-3.17	104.08	106.33
14	AE	1001	BCL	CHA-C1A-NA	-3.17	119.14	126.40
25	M	406	BPH	OBD-CAD-CBD	-3.17	121.18	125.82
15	AT	102	LMT	C3'-C4'-C5'	-3.16	103.68	110.93
14	AB	1001	BCL	CHA-C1A-NA	-3.16	119.16	126.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BQ	1003	BCL	CHA-C1A-NA	-3.16	119.16	126.40
16	bi	101	V7N	C28-C27-C26	-3.16	117.54	126.42
16	BK	1001	V7N	C15-C14-C13	-3.16	122.80	127.31
14	AD	102	BCL	C1D-ND-C4D	-3.16	104.09	106.33
16	BE	101	V7N	C15-C14-C13	-3.16	122.81	127.31
16	BP	1001	V7N	O44-C40-O45	-3.16	116.39	123.61
16	BI	1001	V7N	O44-C40-O45	-3.15	116.39	123.61
14	AL	103	BCL	CHA-C1A-NA	-3.15	119.18	126.40
14	AF	1001	BCL	C1D-ND-C4D	-3.15	104.10	106.33
14	BA	103	BCL	CHA-C1A-NA	-3.15	119.18	126.40
16	AS	105	V7N	C35-C13-C14	-3.15	118.51	122.92
16	BG	1001	V7N	O44-C40-O45	-3.15	116.40	123.61
14	AP	102	BCL	C4A-NA-C1A	3.15	108.12	106.71
16	bh	102	V7N	O44-C40-O45	-3.15	116.40	123.61
16	bj	101	V7N	O44-C40-O45	-3.15	116.40	123.61
17	C	404	HEC	CMB-C2B-C3B	3.15	129.52	125.82
21	aj	102	CD4	O3-C16-C15	-3.15	99.27	108.43
16	BE	101	V7N	C35-C13-C14	-3.15	118.52	122.92
14	bg	105	BCL	C1D-ND-C4D	-3.14	104.10	106.33
14	AN	102	BCL	C4A-NA-C1A	3.14	108.12	106.71
14	AV	101	BCL	CHA-C1A-NA	-3.14	119.20	126.40
14	ac	1001	BCL	CMB-C2B-C3B	3.14	130.56	124.68
14	ak	1001	BCL	CMB-C2B-C3B	3.14	130.56	124.68
14	AH	103	BCL	CHA-C1A-NA	-3.14	119.21	126.40
22	H1	103	PGW	C02-O01-C1	3.14	125.52	117.79
14	AV	101	BCL	C1D-ND-C4D	-3.14	104.11	106.33
14	AW	101	BCL	C1D-ND-C4D	-3.14	104.11	106.33
14	bk	102	BCL	C1D-ND-C4D	-3.14	104.11	106.33
14	AC	102	BCL	C1D-ND-C4D	-3.14	104.11	106.33
14	aj	103	BCL	CMB-C2B-C3B	3.14	130.55	124.68
14	BV	1005	BCL	C1D-ND-C4D	-3.14	104.11	106.33
14	BV	1005	BCL	C4A-NA-C1A	3.14	108.12	106.71
14	BB	103	BCL	CHA-C1A-NA	-3.14	119.22	126.40
16	BR	1001	V7N	O44-C40-O45	-3.14	116.43	123.61
14	M	405	BCL	CMB-C2B-C3B	3.14	130.54	124.68
14	bh	105	BCL	C1D-ND-C4D	-3.13	104.11	106.33
14	AC	101	BCL	C1D-ND-C4D	-3.13	104.11	106.33
14	AU	102	BCL	CHA-C1A-NA	-3.13	119.23	126.40
14	AM	101	BCL	CHA-C1A-NA	-3.13	119.23	126.40
16	BU	1001	V7N	O44-C40-O45	-3.13	116.45	123.61
14	BS	1003	BCL	C1-C2-C3	-3.13	120.63	126.04
14	BE	104	BCL	C1D-ND-C4D	-3.13	104.11	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	am	1001	BCL	CHA-C1A-NA	-3.13	119.24	126.40
14	BK	1006	BCL	C4A-NA-C1A	3.13	108.11	106.71
14	AR	101	BCL	CHA-C1A-NA	-3.13	119.24	126.40
14	bm	104	BCL	C1D-ND-C4D	-3.13	104.11	106.33
14	bn	103	BCL	C1D-ND-C4D	-3.13	104.11	106.33
14	AI	102	BCL	CHA-C1A-NA	-3.12	119.24	126.40
14	AN	102	BCL	CHA-C1A-NA	-3.12	119.25	126.40
14	ao	102	BCL	CMB-C2B-C3B	3.12	130.52	124.68
14	AL	103	BCL	C1D-ND-C4D	-3.12	104.12	106.33
14	AC	102	BCL	CHA-C1A-NA	-3.12	119.25	126.40
14	AT	101	BCL	CHA-C1A-NA	-3.12	119.25	126.40
14	AG	102	BCL	C1D-ND-C4D	-3.12	104.12	106.33
14	am	1001	BCL	CMB-C2B-C3B	3.12	130.51	124.68
24	ag	1002	V7B	C1-O6-C5	3.12	119.81	113.69
14	BV	1005	BCL	CHA-C1A-NA	-3.12	119.26	126.40
14	AC	103	BCL	C1D-ND-C4D	-3.12	104.12	106.33
14	AK	102	BCL	C1D-ND-C4D	-3.12	104.12	106.33
14	AV	103	BCL	C4A-NA-C1A	3.12	108.11	106.71
16	AO	1001	V7N	C33-C5-C6	-3.12	118.56	122.92
14	AD	102	BCL	CHA-C1A-NA	-3.11	119.27	126.40
14	AA	1001	BCL	CHA-C1A-NA	-3.11	119.27	126.40
14	AM	102	BCL	CHA-C1A-NA	-3.11	119.27	126.40
16	bl	102	V7N	O44-C40-O45	-3.11	116.50	123.61
14	AT	101	BCL	C1D-ND-C4D	-3.11	104.13	106.33
16	BR	1001	V7N	C33-C5-C6	-3.11	118.57	122.92
14	BU	1004	BCL	CHA-C1A-NA	-3.11	119.28	126.40
14	AR	102	BCL	CHA-C1A-NA	-3.11	119.29	126.40
14	AV	102	BCL	C1D-ND-C4D	-3.11	104.13	106.33
14	bo	103	BCL	C1D-ND-C4D	-3.11	104.13	106.33
14	BC	104	BCL	CHA-C1A-NA	-3.10	119.29	126.40
16	BX	1001	V7N	O44-C40-O45	-3.10	116.51	123.61
14	AU	103	BCL	CHA-C1A-NA	-3.10	119.29	126.40
16	bm	101	V7N	C35-C13-C14	-3.10	118.58	122.92
14	AM	102	BCL	CMB-C2B-C3B	3.10	130.48	124.68
14	ai	101	BCL	CMB-C2B-C3B	3.10	130.48	124.68
21	af	102	CD4	C15-O2-C14	-3.10	110.16	117.79
14	bc	102	BCL	C1-O2A-CGA	3.10	124.57	116.44
14	BR	1004	BCL	CHA-C1A-NA	-3.10	119.31	126.40
14	AR	101	BCL	C1D-ND-C4D	-3.10	104.14	106.33
14	AO	1002	BCL	CHA-C1A-NA	-3.10	119.31	126.40
16	BD	101	V7N	O44-C40-O45	-3.10	116.52	123.61
14	AQ	102	BCL	C1D-ND-C4D	-3.10	104.14	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	ap	1001	BCL	CMB-C2B-C3B	3.09	130.47	124.68
14	AS	103	BCL	C1D-ND-C4D	-3.09	104.14	106.33
14	AU	102	BCL	C1D-ND-C4D	-3.09	104.14	106.33
14	BQ	1003	BCL	C4A-NA-C1A	3.09	108.10	106.71
14	AS	103	BCL	CHA-C1A-NA	-3.09	119.31	126.40
14	AW	101	BCL	CHA-C1A-NA	-3.09	119.31	126.40
14	BL	1003	BCL	CHA-C1A-NA	-3.09	119.31	126.40
14	ba	103	BCL	CMB-C2B-C3B	3.09	130.46	124.68
14	AV	102	BCL	CHA-C1A-NA	-3.09	119.32	126.40
16	BX	1001	V7N	C35-C13-C14	-3.09	118.60	122.92
14	AI	103	BCL	CMB-C2B-C3B	3.09	130.46	124.68
14	BD	105	BCL	CHA-C1A-NA	-3.09	119.33	126.40
14	ae	102	BCL	CMB-C2B-C3B	3.09	130.45	124.68
14	BW	1003	BCL	CHA-C1A-NA	-3.09	119.33	126.40
14	AF	1001	BCL	CHA-C1A-NA	-3.09	119.33	126.40
14	AJ	101	BCL	CHA-C1A-NA	-3.08	119.34	126.40
24	ag	1002	V7B	O7-C10-C11	3.08	118.14	111.50
15	BG	1002	LMT	O1'-C1'-C2'	3.08	113.12	108.30
14	BK	1006	BCL	CHA-C1A-NA	-3.08	119.34	126.40
14	AS	104	BCL	CMB-C2B-C3B	3.08	130.44	124.68
14	AN	101	BCL	CHA-C1A-NA	-3.08	119.34	126.40
16	AS	105	V7N	C15-C14-C13	-3.08	122.91	127.31
14	AG	102	BCL	CHA-C1A-NA	-3.08	119.34	126.40
17	C	402	HEC	CMB-C2B-C3B	3.08	129.44	125.82
14	BA	103	BCL	C4A-NA-C1A	3.08	108.09	106.71
14	BB	103	BCL	C4A-NA-C1A	3.08	108.09	106.71
16	bg	101	V7N	C36-C18-C17	-3.07	118.62	122.92
14	BT	103	BCL	CHA-C1A-NA	-3.07	119.36	126.40
14	AB	1002	BCL	C1C-NC-C4C	3.07	108.09	106.71
14	AN	102	BCL	C1D-ND-C4D	-3.07	104.15	106.33
14	BE	104	BCL	CHA-C1A-NA	-3.07	119.36	126.40
14	AX	103	BCL	C4A-NA-C1A	3.07	108.09	106.71
14	BF	102	BCL	CHA-C1A-NA	-3.07	119.37	126.40
16	BS	1001	V7N	C35-C13-C14	-3.07	118.63	122.92
14	BO	1004	BCL	CHA-C1A-NA	-3.06	119.38	126.40
14	AC	103	BCL	CHA-C1A-NA	-3.06	119.39	126.40
14	AX	103	BCL	C1D-ND-C4D	-3.06	104.16	106.33
14	AP	103	BCL	CMB-C2B-C3B	3.06	130.40	124.68
14	ba	103	BCL	CHA-C1A-NA	-3.06	119.40	126.40
16	BH	1001	V7N	C33-C5-C6	-3.06	118.64	122.92
22	H1	103	PGW	O03-C01-C02	3.06	117.33	108.43
14	AQ	101	BCL	CMB-C2B-C3B	3.06	130.40	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AV	101	BCL	CMB-C2B-C3B	3.06	130.40	124.68
14	BX	1002	BCL	CHA-C1A-NA	-3.06	119.40	126.40
14	al	1001	BCL	CMB-C2B-C3B	3.06	130.40	124.68
14	AH	103	BCL	C1D-ND-C4D	-3.05	104.17	106.33
14	AX	102	BCL	CMB-C2B-C3B	3.05	130.39	124.68
15	BK	1002	LMT	O1'-C1'-C2'	3.05	113.07	108.30
14	AE	1001	BCL	C1D-ND-C4D	-3.05	104.17	106.33
14	aa	1001	BCL	CMB-C2B-C3B	3.05	130.38	124.68
14	AO	1002	BCL	C1D-ND-C4D	-3.05	104.17	106.33
14	BG	1004	BCL	CHA-C1A-NA	-3.05	119.42	126.40
14	AM	102	BCL	C4A-NA-C1A	3.05	108.08	106.71
14	an	1001	BCL	CMB-C2B-C3B	3.05	130.38	124.68
14	af	101	BCL	CMB-C2B-C3B	3.04	130.38	124.68
14	bn	103	BCL	CHA-C1A-NA	-3.04	119.43	126.40
14	BI	1003	BCL	CHA-C1A-NA	-3.04	119.43	126.40
14	AS	102	BCL	CHA-C1A-NA	-3.04	119.44	126.40
14	BN	103	BCL	CHA-C1A-NA	-3.04	119.44	126.40
14	AI	102	BCL	C1D-ND-C4D	-3.04	104.18	106.33
16	be	101	V7N	C36-C18-C17	-3.04	118.67	122.92
14	ad	1001	BCL	CMB-C2B-C3B	3.04	130.36	124.68
14	bh	105	BCL	CMB-C2B-C3B	3.04	130.36	124.68
14	bl	104	BCL	CMB-C2B-C3B	3.04	130.36	124.68
14	ao	102	BCL	CHA-C1A-NA	-3.04	119.44	126.40
14	AA	1002	BCL	CMB-C2B-C3B	3.04	130.36	124.68
14	AC	103	BCL	CMB-C2B-C3B	3.03	130.36	124.68
14	AG	101	BCL	CMB-C2B-C3B	3.03	130.35	124.68
14	AD	102	BCL	CMB-C2B-C3B	3.03	130.35	124.68
14	ah	1001	BCL	CMB-C2B-C3B	3.03	130.34	124.68
14	BS	1003	BCL	CHA-C1A-NA	-3.03	119.47	126.40
14	BQ	1003	BCL	CMB-C2B-C3B	3.03	130.34	124.68
14	AS	104	BCL	CHA-C1A-NA	-3.02	119.47	126.40
14	BH	1005	BCL	CMB-C2B-C3B	3.02	130.33	124.68
14	bb	104	BCL	CMB-C2B-C3B	3.02	130.33	124.68
14	an	1001	BCL	CHA-C1A-NA	-3.02	119.48	126.40
14	AJ	102	BCL	CHA-C1A-NA	-3.02	119.48	126.40
14	AK	101	BCL	C1-O2A-CGA	3.02	124.37	116.44
16	AS	105	V7N	O44-C40-O45	-3.02	116.70	123.61
14	AK	101	BCL	CHA-C1A-NA	-3.02	119.48	126.40
14	BH	1005	BCL	CHA-C1A-NA	-3.02	119.49	126.40
14	BM	1002	BCL	CHA-C1A-NA	-3.02	119.49	126.40
14	AP	103	BCL	CHA-C1A-NA	-3.02	119.49	126.40
14	bm	104	BCL	CMB-C2B-C3B	3.02	130.32	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BR	1004	BCL	CMB-C2B-C3B	3.01	130.32	124.68
14	bi	104	BCL	CHA-C1A-NA	-3.01	119.51	126.40
16	BK	1001	V7N	C35-C13-C14	-3.01	118.71	122.92
14	AC	101	BCL	CHA-C1A-NA	-3.01	119.52	126.40
14	AV	103	BCL	CMB-C2B-C3B	3.00	130.30	124.68
14	bj	103	BCL	CMB-C2B-C3B	3.00	130.30	124.68
14	AR	102	BCL	CMB-C2B-C3B	3.00	130.30	124.68
14	AP	102	BCL	C1D-ND-C4D	-3.00	104.20	106.33
14	BI	1003	BCL	O2A-CGA-O1A	-3.00	116.02	123.59
14	AL	101	BCL	CHA-C1A-NA	-3.00	119.53	126.40
17	C	403	HEC	CMB-C2B-C3B	3.00	129.34	125.82
14	AC	101	BCL	CMB-C2B-C3B	2.99	130.28	124.68
14	BJ	1002	BCL	CHA-C1A-NA	-2.99	119.55	126.40
15	BP	1004	LMT	C3'-C4'-C5'	-2.99	104.07	110.93
14	BO	1004	BCL	CMB-C2B-C3B	2.99	130.27	124.68
14	BP	1005	BCL	CHA-C1A-NA	-2.98	119.57	126.40
14	AB	1001	BCL	CMB-C2B-C3B	2.98	130.25	124.68
14	bm	104	BCL	CHA-C1A-NA	-2.98	119.58	126.40
14	bk	102	BCL	CMB-C2B-C3B	2.98	130.25	124.68
16	BS	1001	V7N	C15-C14-C13	-2.97	123.07	127.31
14	AL	101	BCL	CMB-C2B-C3B	2.97	130.24	124.68
14	AN	104	BCL	CMB-C2B-C3B	2.97	130.24	124.68
14	bf	103	BCL	CMB-C2B-C3B	2.97	130.24	124.68
14	bl	104	BCL	CHA-C1A-NA	-2.97	119.59	126.40
14	bb	104	BCL	CHA-C1A-NA	-2.97	119.60	126.40
16	BL	1001	V7N	C35-C13-C14	-2.97	118.77	122.92
15	AJ	103	LMT	C1B-O1B-C4'	2.97	125.31	117.96
20	bo	104	0V9	C2-O2-C10	2.96	125.09	117.79
14	ai	101	BCL	CHA-C1A-NA	-2.96	119.61	126.40
15	AT	102	LMT	O5'-C1'-O1'	-2.96	102.96	109.97
14	BB	103	BCL	CMB-C2B-C3B	2.96	130.22	124.68
14	ac	1001	BCL	CHA-C1A-NA	-2.96	119.62	126.40
16	bb	101	V7N	C29-C28-C27	-2.96	113.98	123.22
14	BP	1005	BCL	CMB-C2B-C3B	2.96	130.21	124.68
14	AV	102	BCL	C4A-NA-C1A	2.96	108.04	106.71
16	BB	101	V7N	C35-C13-C14	-2.96	118.78	122.92
16	ba	101	V7N	C33-C5-C4	2.96	122.74	118.08
16	BQ	1001	V7N	C35-C13-C14	-2.96	118.78	122.92
14	bd	102	BCL	CMB-C2B-C3B	2.96	130.21	124.68
14	bg	105	BCL	CMB-C2B-C3B	2.96	130.21	124.68
14	AJ	102	BCL	CMB-C2B-C3B	2.96	130.21	124.68
14	AA	1002	BCL	CHA-C1A-NA	-2.95	119.63	126.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	L	1010	BCL	CMB-C2B-C3B	2.95	130.20	124.68
14	bg	105	BCL	CHA-C1A-NA	-2.95	119.64	126.40
16	be	101	V7N	C35-C13-C12	2.95	122.73	118.08
16	BM	1001	V7N	C35-C13-C14	-2.95	118.79	122.92
14	af	101	BCL	CHA-C1A-NA	-2.95	119.64	126.40
14	bn	103	BCL	CMB-C2B-C3B	2.95	130.19	124.68
14	ak	1001	BCL	CHA-C1A-NA	-2.95	119.65	126.40
14	bf	103	BCL	CHA-C1A-NA	-2.95	119.65	126.40
14	al	1001	BCL	CHA-C1A-NA	-2.94	119.66	126.40
16	bo	102	V7N	C35-C13-C14	-2.94	118.80	122.92
14	AN	101	BCL	CMB-C2B-C3B	2.94	130.18	124.68
14	AQ	102	BCL	C2A-C1A-CHA	2.94	128.99	123.86
14	AU	103	BCL	CMB-C2B-C3B	2.94	130.17	124.68
16	AS	105	V7N	C36-C18-C17	-2.93	118.81	122.92
14	AS	102	BCL	CMB-C2B-C3B	2.93	130.16	124.68
14	BW	1003	BCL	CMB-C2B-C3B	2.93	130.15	124.68
14	be	105	BCL	CMB-C2B-C3B	2.93	130.15	124.68
14	bp	102	BCL	CMB-C2B-C3B	2.93	130.15	124.68
16	BO	1001	V7N	C35-C13-C14	-2.93	118.82	122.92
14	AH	101	BCL	CMB-C2B-C3B	2.92	130.15	124.68
14	AK	102	BCL	C2A-C1A-CHA	2.92	128.97	123.86
16	bi	101	V7N	C35-C13-C14	-2.92	118.83	122.92
15	AQ	103	LMT	C1-O1'-C1'	2.92	118.69	113.84
16	ba	101	V7N	C35-C13-C14	-2.92	118.83	122.92
14	ae	102	BCL	CHA-C1A-NA	-2.92	119.70	126.40
14	bp	102	BCL	CHA-C1A-NA	-2.92	119.70	126.40
14	BF	102	BCL	CMB-C2B-C3B	2.92	130.15	124.68
14	BM	1002	BCL	CMB-C2B-C3B	2.92	130.14	124.68
16	BH	1001	V7N	C35-C13-C14	-2.92	118.83	122.92
14	BD	105	BCL	CMB-C2B-C3B	2.92	130.14	124.68
14	ab	102	BCL	CHA-C1A-NA	-2.92	119.71	126.40
14	bk	102	BCL	CHA-C1A-NA	-2.92	119.71	126.40
14	bd	102	BCL	CHA-C1A-NA	-2.92	119.72	126.40
14	bj	103	BCL	CHA-C1A-NA	-2.92	119.72	126.40
14	bo	103	BCL	CMB-C2B-C3B	2.92	130.13	124.68
14	bi	104	BCL	CMB-C2B-C3B	2.91	130.13	124.68
14	BR	1004	BCL	C4A-NA-C1A	2.91	108.02	106.71
16	AO	1001	V7N	C35-C13-C14	-2.91	118.85	122.92
14	L	1002	BCL	CHA-C1A-NA	-2.91	119.74	126.40
14	bo	103	BCL	CHA-C1A-NA	-2.91	119.74	126.40
15	AH	102	LMT	C1-O1'-C1'	2.91	118.66	113.84
15	BX	1003	LMT	C1-O1'-C1'	2.91	118.66	113.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BP	1005	BCL	C4A-NA-C1A	2.90	108.01	106.71
14	M	408	BCL	C4A-NA-C1A	2.90	108.01	106.71
14	BE	104	BCL	CMB-C2B-C3B	2.90	130.11	124.68
16	bh	102	V7N	C33-C5-C4	2.90	122.65	118.08
15	AP	104	LMT	C3'-C4'-C5'	-2.90	104.27	110.93
14	aa	1001	BCL	CHA-C1A-NA	-2.90	119.75	126.40
14	BM	1002	BCL	C4A-NA-C1A	2.90	108.01	106.71
14	BU	1004	BCL	CMB-C2B-C3B	2.90	130.10	124.68
14	BT	103	BCL	CMB-C2B-C3B	2.90	130.10	124.68
14	AN	104	BCL	C1C-NC-C4C	2.90	108.01	106.71
14	AE	1001	BCL	C2A-C1A-CHA	2.90	128.92	123.86
14	am	1001	BCL	O2A-C1-C2	-2.90	101.02	108.64
14	BK	1006	BCL	CMB-C2B-C3B	2.90	130.09	124.68
14	AB	1001	BCL	C1-C2-C3	2.90	131.05	126.04
14	AR	102	BCL	C1-O2A-CGA	2.89	124.04	116.44
14	AG	101	BCL	CHA-C1A-NA	-2.89	119.77	126.40
14	BC	104	BCL	CBA-CAA-C2A	2.89	122.40	113.86
16	BK	1001	V7N	C29-C28-C27	-2.89	114.19	123.22
16	bf	101	V7N	C29-C28-C27	-2.89	114.20	123.22
16	BP	1001	V7N	C29-C28-C27	-2.89	114.21	123.22
14	BC	104	BCL	C1-O2A-CGA	2.88	124.01	116.44
14	ap	1001	BCL	CHA-C1A-NA	-2.88	119.79	126.40
14	BX	1002	BCL	CMB-C2B-C3B	2.88	130.07	124.68
16	BM	1001	V7N	C36-C18-C19	2.88	122.62	118.08
14	bb	104	BCL	C4A-NA-C1A	2.88	108.00	106.71
16	BI	1001	V7N	C35-C13-C14	-2.88	118.89	122.92
16	bj	101	V7N	C35-C13-C12	2.88	122.62	118.08
14	bc	102	BCL	CMB-C2B-C3B	2.88	130.07	124.68
14	AQ	101	BCL	CHA-C1A-NA	-2.88	119.80	126.40
15	BD	102	LMT	C1-O1'-C1'	2.88	118.61	113.84
16	bh	102	V7N	C35-C13-C12	2.88	122.61	118.08
14	AH	103	BCL	C2A-C1A-CHA	2.88	128.89	123.86
14	BG	1004	BCL	C4A-NA-C1A	2.88	108.00	106.71
14	ag	1001	BCL	CHA-C1A-NA	-2.88	119.81	126.40
14	AD	102	BCL	C2A-C1A-CHA	2.87	128.88	123.86
14	AI	103	BCL	C4A-NA-C1A	2.87	108.00	106.71
14	BS	1003	BCL	CMB-C2B-C3B	2.87	130.05	124.68
16	bl	102	V7N	C35-C13-C12	2.87	122.60	118.08
14	ad	1001	BCL	CHA-C1A-NA	-2.87	119.83	126.40
14	BJ	1002	BCL	CMB-C2B-C3B	2.87	130.04	124.68
16	BP	1001	V7N	C36-C18-C19	2.87	122.60	118.08
14	AH	101	BCL	CHA-C1A-NA	-2.87	119.83	126.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BV	1005	BCL	CMB-C2B-C3B	2.87	130.04	124.68
14	BL	1003	BCL	CMB-C2B-C3B	2.87	130.04	124.68
14	AB	1002	BCL	CAA-CBA-CGA	2.87	121.63	113.25
14	ah	1001	BCL	CHA-C1A-NA	-2.86	119.84	126.40
14	L	1010	BCL	CHA-C1A-NA	-2.86	119.84	126.40
14	BC	104	BCL	CMB-C2B-C3B	2.86	130.03	124.68
14	BN	103	BCL	CMB-C2B-C3B	2.86	130.03	124.68
16	BC	101	V7N	C35-C13-C14	-2.86	118.92	122.92
14	aj	103	BCL	CHA-C1A-NA	-2.86	119.85	126.40
14	bk	102	BCL	C4A-NA-C1A	2.86	107.99	106.71
14	AN	104	BCL	CHA-C1A-NA	-2.86	119.86	126.40
14	bf	103	BCL	C4A-NA-C1A	2.86	107.99	106.71
15	AJ	103	LMT	O1B-C1B-C2B	2.85	115.50	108.10
14	AE	1003	BCL	CHA-C1A-NA	-2.85	119.86	126.40
14	M	405	BCL	C2A-C1A-CHA	2.85	128.85	123.86
16	BU	1001	V7N	C36-C18-C17	-2.85	118.93	122.92
14	AE	1004	BCL	C1-C2-C3	-2.85	121.11	126.04
14	be	105	BCL	CHA-C1A-NA	-2.85	119.87	126.40
14	BD	105	BCL	C4A-NA-C1A	2.85	107.99	106.71
14	bd	102	BCL	C4A-NA-C1A	2.85	107.99	106.71
16	bl	102	V7N	C33-C5-C4	2.85	122.56	118.08
16	be	101	V7N	C16-C17-C18	-2.85	123.25	127.31
16	bd	101	V7N	C35-C13-C12	2.85	122.56	118.08
16	bf	101	V7N	C33-C5-C4	2.85	122.56	118.08
14	AE	1004	BCL	CMB-C2B-C3B	2.85	130.00	124.68
14	AI	102	BCL	C2A-C1A-CHA	2.84	128.83	123.86
16	bo	102	V7N	C36-C18-C17	-2.84	118.94	122.92
14	AN	102	BCL	C2A-C1A-CHA	2.84	128.83	123.86
14	AE	1004	BCL	CHA-C1A-NA	-2.84	119.90	126.40
16	bb	101	V7N	C33-C5-C4	2.84	122.55	118.08
14	BI	1003	BCL	CMB-C2B-C3B	2.84	129.99	124.68
16	bc	101	V7N	C35-C13-C14	-2.84	118.95	122.92
15	BS	1005	LMT	O1'-C1'-C2'	2.84	112.73	108.30
14	AF	1001	BCL	C2A-C1A-CHA	2.84	128.82	123.86
14	M	408	BCL	CHA-C1A-NA	-2.84	119.91	126.40
16	BL	1001	V7N	C36-C18-C19	2.83	122.54	118.08
14	AT	101	BCL	C2A-C1A-CHA	2.83	128.81	123.86
14	bl	104	BCL	C4A-NA-C1A	2.83	107.98	106.71
14	AC	102	BCL	C2A-C1A-CHA	2.83	128.81	123.86
14	AA	1002	BCL	C1-C2-C3	2.83	130.94	126.04
14	bc	102	BCL	CHA-C1A-NA	-2.83	119.92	126.40
14	AE	1003	BCL	CMB-C2B-C3B	2.83	129.97	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BA	103	BCL	CMB-C2B-C3B	2.83	129.97	124.68
14	AW	101	BCL	C2A-C1A-CHA	2.83	128.80	123.86
14	AG	101	BCL	C1-O2A-CGA	2.82	123.85	116.44
16	BI	1001	V7N	C15-C14-C13	-2.82	123.28	127.31
15	BI	1002	LMT	C1-O1'-C1'	2.82	118.52	113.84
14	AJ	101	BCL	C2A-C1A-CHA	2.82	128.79	123.86
14	AX	102	BCL	CHA-C1A-NA	-2.82	119.95	126.40
14	AI	103	BCL	CHA-C1A-NA	-2.82	119.95	126.40
14	AU	102	BCL	C2A-C1A-CHA	2.82	128.78	123.86
14	BG	1004	BCL	CMB-C2B-C3B	2.81	129.94	124.68
14	AR	101	BCL	C2A-C1A-CHA	2.81	128.77	123.86
16	BV	1001	V7N	C15-C14-C13	-2.81	123.30	127.31
15	BC	105	LMT	C1-O1'-C1'	2.81	118.50	113.84
14	an	1001	BCL	C4A-NA-C1A	2.80	107.97	106.71
16	BO	1001	V7N	C33-C5-C6	-2.80	119.00	122.92
14	AL	103	BCL	C2A-C1A-CHA	2.80	128.75	123.86
14	BX	1002	BCL	O2A-CGA-O1A	-2.80	116.53	123.59
15	BK	1003	LMT	C1B-O1B-C4'	2.80	124.88	117.96
16	BG	1001	V7N	C35-C13-C14	-2.80	119.01	122.92
14	AV	103	BCL	CHA-C1A-NA	-2.79	120.00	126.40
14	AM	101	BCL	C2A-C1A-CHA	2.79	128.75	123.86
14	AS	103	BCL	C2A-C1A-CHA	2.79	128.74	123.86
14	AS	104	BCL	C2A-C1A-CHA	2.79	128.74	123.86
14	AK	101	BCL	CMB-C2B-C3B	2.79	129.90	124.68
21	af	102	CD4	O16-C46-C47	2.79	117.51	111.50
14	AA	1002	BCL	C2A-C1A-CHA	2.79	128.73	123.86
14	AS	104	BCL	O2A-CGA-O1A	-2.79	116.56	123.59
16	bg	101	V7N	C35-C13-C14	-2.79	119.02	122.92
14	bh	105	BCL	C2A-C1A-CHA	2.79	128.73	123.86
14	L	1002	BCL	C4A-NA-C1A	2.78	107.96	106.71
15	bo	105	LMT	C3'-C4'-C5'	-2.78	104.55	110.93
14	AR	102	BCL	C2A-C1A-CHA	2.78	128.72	123.86
15	AD	103	LMT	C1-O1'-C1'	2.78	118.45	113.84
16	BW	1001	V7N	C35-C13-C14	-2.78	119.03	122.92
14	AA	1001	BCL	C2A-C1A-CHA	2.78	128.72	123.86
14	L	1010	BCL	C2A-C1A-CHA	2.77	128.71	123.86
16	BG	1001	V7N	C36-C18-C19	2.77	122.44	118.08
14	AO	1002	BCL	C2A-C1A-CHA	2.77	128.70	123.86
16	bd	101	V7N	C35-C13-C14	-2.77	119.04	122.92
15	BK	1005	LMT	C3'-C4'-C5'	-2.77	104.58	110.93
14	M	408	BCL	C1-O2A-CGA	2.76	123.69	116.44
16	bc	101	V7N	C33-C5-C4	2.76	122.42	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	bk	101	V7N	C35-C13-C12	2.76	122.42	118.08
16	BA	101	V7N	C35-C13-C14	-2.76	119.06	122.92
14	AA	1002	BCL	C4A-NA-C1A	2.76	107.94	106.71
14	BA	103	BCL	C2A-C1A-CHA	2.75	128.67	123.86
14	be	105	BCL	C4A-NA-C1A	2.75	107.94	106.71
14	BF	102	BCL	CAA-CBA-CGA	2.75	121.29	113.25
14	bo	103	BCL	C4A-NA-C1A	2.75	107.94	106.71
14	BE	104	BCL	C2A-C1A-CHA	2.75	128.66	123.86
20	bc	103	0V9	O2-C10-O4	-2.75	117.06	123.70
14	AB	1002	BCL	C2A-C1A-CHA	2.75	128.66	123.86
15	BL	1005	LMT	C3'-C4'-C5'	-2.75	104.63	110.93
14	AG	102	BCL	C2A-C1A-CHA	2.75	128.66	123.86
21	M	402	CD4	O3-C16-C15	-2.74	100.45	108.43
17	C	404	HEC	C1D-C2D-C3D	-2.74	105.09	107.00
15	BB	102	LMT	O1'-C1'-C2'	2.74	112.58	108.30
14	AB	1002	BCL	CHA-C1A-NA	-2.74	120.13	126.40
14	AV	101	BCL	C2A-C1A-CHA	2.74	128.64	123.86
16	BJ	1001	V7N	C38-C26-C27	-2.73	113.78	118.08
16	BR	1001	V7N	C35-C13-C14	-2.73	119.10	122.92
16	bp	101	V7N	C35-C13-C14	-2.72	119.11	122.92
14	AV	102	BCL	C2A-C1A-CHA	2.72	128.62	123.86
14	bj	103	BCL	C4A-NA-C1A	2.72	107.93	106.71
15	M	403	LMT	C1-O1'-C1'	2.72	118.35	113.84
14	AK	101	BCL	CBA-CAA-C2A	2.72	121.89	113.86
16	bj	101	V7N	C35-C13-C14	-2.72	119.12	122.92
16	ba	101	V7N	C35-C13-C12	2.71	122.35	118.08
15	BI	1002	LMT	C3'-C4'-C5'	-2.71	104.71	110.93
16	BV	1001	V7N	C35-C13-C14	-2.71	119.13	122.92
16	bi	101	V7N	C36-C18-C17	-2.71	119.13	122.92
15	BJ	1003	LMT	C3'-C4'-C5'	-2.70	104.73	110.93
16	bb	101	V7N	C35-C13-C14	-2.70	119.14	122.92
16	ba	101	V7N	C36-C18-C17	-2.70	119.14	122.92
16	bf	101	V7N	C35-C13-C14	-2.70	119.14	122.92
15	L	1008	LMT	C3'-C4'-C5'	-2.70	104.74	110.93
15	BT	102	LMT	C3'-C4'-C5'	-2.70	104.75	110.93
15	bc	104	LMT	C1-O1'-C1'	2.69	118.31	113.84
14	AE	1003	BCL	C4A-NA-C1A	2.69	107.92	106.71
15	BP	1004	LMT	C1-O1'-C1'	2.69	118.30	113.84
14	BK	1006	BCL	C2A-C1A-CHA	2.69	128.56	123.86
14	AX	102	BCL	C1-O2A-CGA	2.69	123.49	116.44
16	BP	1001	V7N	C35-C13-C14	-2.68	119.17	122.92
14	am	1001	BCL	C2A-C1A-CHA	2.68	128.54	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	C	406	NDG	C1-O5-C5	2.68	115.82	112.19
15	AD	103	LMT	C3'-C4'-C5'	-2.68	104.79	110.93
16	bn	102	V7N	C35-C13-C12	2.68	122.29	118.08
14	AX	102	BCL	C1-C2-C3	-2.67	121.42	126.04
14	AM	102	BCL	C2A-C1A-CHA	2.67	128.53	123.86
16	bo	102	V7N	C29-C28-C27	-2.67	114.88	123.22
15	BU	1002	LMT	C1-O1'-C1'	2.67	118.26	113.84
15	BL	1004	LMT	C1'-O5'-C5'	-2.67	108.46	113.69
16	AO	1001	V7N	C36-C18-C19	2.66	122.27	118.08
16	bp	101	V7N	C33-C5-C4	2.66	122.27	118.08
14	AS	102	BCL	C4A-NA-C1A	2.66	107.90	106.71
14	AQ	101	BCL	CBA-CAA-C2A	2.66	121.71	113.86
15	AD	101	LMT	O1'-C1'-C2'	2.65	112.44	108.30
15	BK	1004	LMT	O1'-C1'-C2'	2.65	112.44	108.30
16	BJ	1001	V7N	C36-C18-C19	2.65	122.25	118.08
14	AS	102	BCL	C2A-C1A-CHA	2.65	128.49	123.86
14	AL	101	BCL	CAA-CBA-CGA	2.64	120.97	113.25
14	BB	103	BCL	C2A-C1A-CHA	2.64	128.48	123.86
14	AJ	102	BCL	CBA-CAA-C2A	2.64	121.66	113.86
27	M	404	CRT	C31-C32-C33	-2.64	123.54	127.31
23	L	1001	MQ8	C11-C3-C4	-2.64	115.68	118.50
15	AH	102	LMT	C3'-C4'-C5'	-2.64	104.88	110.93
16	bf	101	V7N	C36-C18-C17	-2.64	119.23	122.92
14	AP	102	BCL	C2A-C1A-CHA	2.63	128.46	123.86
16	BJ	1001	V7N	C35-C13-C14	-2.63	119.24	122.92
14	M	408	BCL	C2A-C1A-CHA	2.63	128.46	123.86
14	AI	102	BCL	OBB-CAB-CBB	-2.63	114.25	120.17
14	AE	1003	BCL	C2A-C1A-CHA	2.63	128.46	123.86
14	BW	1003	BCL	C2A-C1A-CHA	2.63	128.45	123.86
14	AR	102	BCL	O2D-CGD-CBD	2.63	115.94	111.27
20	bh	103	0V9	O3P-P-O2P	2.62	119.32	109.07
16	bk	101	V7N	C35-C13-C14	-2.62	119.25	122.92
14	bc	102	BCL	CBA-CAA-C2A	2.62	121.60	113.86
14	AK	102	BCL	OBB-CAB-CBB	-2.62	114.27	120.17
14	BF	102	BCL	C1-O2A-CGA	2.62	123.31	116.44
16	be	101	V7N	C33-C5-C4	2.61	122.20	118.08
15	BH	1002	LMT	C3'-C4'-C5'	-2.61	104.93	110.93
21	H1	102	CD4	O2-C14-C13	2.61	117.13	111.50
14	AU	102	BCL	OBB-CAB-CBB	-2.61	114.30	120.17
14	AQ	102	BCL	OBB-CAB-CBB	-2.61	114.30	120.17
14	ap	1001	BCL	C1-O2A-CGA	2.61	123.29	116.44
15	AS	101	LMT	C3'-C4'-C5'	-2.61	104.95	110.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	L	1002	BCL	C2A-C1A-CHA	2.60	128.41	123.86
16	BV	1001	V7N	C36-C18-C19	2.60	122.18	118.08
16	bn	102	V7N	C35-C13-C14	-2.60	119.28	122.92
14	AP	102	BCL	OBB-CAB-CBB	-2.60	114.31	120.17
15	BE	102	LMT	C1'-O5'-C5'	-2.60	108.58	113.69
14	AM	101	BCL	OBB-CAB-CBB	-2.60	114.32	120.17
16	BX	1001	V7N	C36-C18-C17	-2.60	119.28	122.92
15	L	1008	LMT	O5'-C1'-O1'	-2.60	103.82	109.97
16	BG	1001	V7N	C38-C26-C27	-2.60	113.98	118.08
15	L	1011	LMT	C3'-C4'-C5'	-2.59	104.98	110.93
14	AL	103	BCL	OBB-CAB-CBB	-2.59	114.33	120.17
16	BB	101	V7N	C36-C18-C19	2.59	122.16	118.08
14	AP	103	BCL	C2A-C1A-CHA	2.59	128.38	123.86
14	AV	102	BCL	OBB-CAB-CBB	-2.59	114.35	120.17
15	bl	101	LMT	C1'-O5'-C5'	-2.59	108.61	113.69
16	AO	1001	V7N	C15-C14-C13	-2.59	123.62	127.31
14	AJ	101	BCL	OBB-CAB-CBB	-2.59	114.35	120.17
16	bh	102	V7N	C36-C18-C17	-2.59	119.30	122.92
14	AR	101	BCL	OBB-CAB-CBB	-2.59	114.35	120.17
14	AT	101	BCL	OBB-CAB-CBB	-2.59	114.35	120.17
14	AS	103	BCL	CMB-C2B-C3B	2.59	129.52	124.68
16	bf	101	V7N	C35-C13-C12	2.59	122.15	118.08
14	AU	103	BCL	C2A-C1A-CHA	2.58	128.38	123.86
15	bo	101	LMT	C3'-C4'-C5'	-2.58	105.00	110.93
14	AE	1004	BCL	C2A-C1A-CHA	2.58	128.37	123.86
14	bg	105	BCL	C4A-NA-C1A	2.58	107.87	106.71
14	AG	102	BCL	CMB-C2B-C3B	2.58	129.50	124.68
16	BG	1001	V7N	C33-C5-C4	2.58	122.14	118.08
14	AA	1001	BCL	OBB-CAB-CBB	-2.58	114.37	120.17
14	AL	101	BCL	CBA-CAA-C2A	2.58	121.47	113.86
16	bm	101	V7N	C36-C18-C17	-2.58	119.31	122.92
14	AM	101	BCL	CMB-C2B-C3B	2.57	129.50	124.68
17	C	403	HEC	C1D-C2D-C3D	-2.57	105.20	107.00
16	BO	1001	V7N	C36-C18-C17	-2.57	119.32	122.92
14	AX	103	BCL	OBB-CAB-CBB	-2.57	114.38	120.17
14	AI	103	BCL	CAA-CBA-CGA	2.57	120.77	113.25
14	AN	102	BCL	OBB-CAB-CBB	-2.57	114.38	120.17
14	AO	1002	BCL	OBB-CAB-CBB	-2.57	114.38	120.17
14	AR	102	BCL	C1-C2-C3	2.57	130.49	126.04
14	AH	103	BCL	OBB-CAB-CBB	-2.57	114.39	120.17
14	AB	1001	BCL	C2A-C1A-CHA	2.57	128.35	123.86
14	AK	102	BCL	CMB-C2B-C3B	2.57	129.48	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	BR	1001	V7N	C3-C4-C5	2.57	129.77	125.89
14	AS	103	BCL	OBB-CAB-CBB	-2.57	114.39	120.17
14	bn	103	BCL	C4A-NA-C1A	2.56	107.86	106.71
27	M	404	CRT	C35-C33-C32	2.56	122.88	118.94
14	AF	1001	BCL	OBB-CAB-CBB	-2.56	114.40	120.17
14	AH	101	BCL	CBA-CAA-C2A	2.56	121.43	113.86
16	bp	101	V7N	C36-C18-C17	-2.56	119.33	122.92
14	BW	1003	BCL	CAA-CBA-CGA	2.56	120.74	113.25
14	AN	104	BCL	C2A-C1A-CHA	2.56	128.34	123.86
14	AI	102	BCL	CMB-C2B-C3B	2.56	129.47	124.68
14	AK	101	BCL	C2A-C1A-CHA	2.56	128.33	123.86
14	AH	103	BCL	CMB-C2B-C3B	2.56	129.46	124.68
14	AC	101	BCL	CBA-CAA-C2A	2.56	121.41	113.86
14	AW	101	BCL	OBB-CAB-CBB	-2.56	114.42	120.17
15	BA	102	LMT	C3'-C4'-C5'	-2.55	105.07	110.93
14	AG	101	BCL	C1C-NC-C4C	2.55	107.85	106.71
14	ba	103	BCL	C4A-NA-C1A	2.55	107.85	106.71
14	AB	1001	BCL	OBB-CAB-CBB	-2.55	114.42	120.17
21	af	102	CD4	C48-C47-C46	-2.55	104.34	113.62
14	AW	101	BCL	CMB-C2B-C3B	2.55	129.45	124.68
16	bp	101	V7N	C1-C2-C3	2.55	119.81	113.06
15	BB	105	LMT	C3'-C4'-C5'	-2.55	105.09	110.93
25	L	1009	BPH	CMB-C2B-C3B	2.55	129.44	124.68
15	AD	101	LMT	C1'-O5'-C5'	-2.55	108.69	113.69
14	AT	101	BCL	CMB-C2B-C3B	2.55	129.44	124.68
14	AE	1003	BCL	CAA-CBA-CGA	2.54	120.69	113.25
21	aj	102	CD4	O2-C14-O1	-2.54	117.56	123.70
16	bc	101	V7N	C36-C18-C17	-2.54	119.36	122.92
14	BX	1002	BCL	C1-O2A-CGA	2.54	123.10	116.44
14	AC	102	BCL	OBB-CAB-CBB	-2.54	114.46	120.17
16	BS	1001	V7N	C33-C5-C4	2.54	122.07	118.08
15	AH	104	LMT	C3'-C4'-C5'	-2.54	105.11	110.93
15	bc	104	LMT	C3'-C4'-C5'	-2.53	105.11	110.93
14	AG	102	BCL	OBB-CAB-CBB	-2.53	114.47	120.17
14	BF	102	BCL	C2A-C1A-CHA	2.53	128.29	123.86
14	AG	101	BCL	C2A-C1A-CHA	2.53	128.29	123.86
14	AU	102	BCL	CMB-C2B-C3B	2.53	129.42	124.68
16	BJ	1001	V7N	C35-C13-C12	2.53	122.07	118.08
15	BF	103	LMT	C1-O1'-C1'	2.53	118.04	113.84
15	bh	104	LMT	C3'-C4'-C5'	-2.53	105.13	110.93
14	AA	1001	BCL	CMB-C2B-C3B	2.53	129.41	124.68
14	bh	105	BCL	C4A-NA-C1A	2.53	107.84	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AX	103	BCL	C2A-C1A-CHA	2.53	128.28	123.86
16	BK	1001	V7N	C36-C18-C19	2.53	122.06	118.08
14	AN	102	BCL	CMB-C2B-C3B	2.52	129.40	124.68
14	AO	1002	BCL	CMB-C2B-C3B	2.52	129.40	124.68
15	bg	103	LMT	O1'-C1'-C2'	2.52	112.24	108.30
14	bp	102	BCL	CBA-CAA-C2A	2.52	121.31	113.86
14	AC	102	BCL	CMB-C2B-C3B	2.52	129.40	124.68
14	al	1001	BCL	C1-O2A-CGA	2.52	123.06	116.44
16	BG	1001	V7N	C15-C14-C13	-2.52	123.71	127.31
14	BV	1005	BCL	C2A-C1A-CHA	2.52	128.27	123.86
15	BL	1004	LMT	C3'-C4'-C5'	-2.52	105.15	110.93
14	AX	102	BCL	CBA-CAA-C2A	2.52	121.30	113.86
16	bn	102	V7N	C36-C18-C19	2.52	122.05	118.08
15	AJ	104	LMT	C3'-C4'-C5'	-2.52	105.15	110.93
14	BC	104	BCL	C2A-C1A-CHA	2.52	128.26	123.86
15	BW	1002	LMT	C3'-C4'-C5'	-2.52	105.16	110.93
16	bj	101	V7N	C33-C5-C4	2.52	122.04	118.08
14	AF	1001	BCL	CMB-C2B-C3B	2.52	129.39	124.68
14	AL	103	BCL	CMB-C2B-C3B	2.52	129.39	124.68
14	BD	105	BCL	C2A-C1A-CHA	2.51	128.25	123.86
14	AG	101	BCL	C4A-NA-C1A	2.51	107.84	106.71
21	H1	102	CD4	O16-C46-C47	2.51	116.92	111.50
14	am	1001	BCL	OBB-CAB-CBB	-2.51	114.52	120.17
16	AE	1005	V7N	C36-C18-C17	-2.51	119.40	122.92
16	bm	101	V7N	C33-C5-C6	-2.51	119.41	122.92
14	ac	1001	BCL	C2A-C1A-CHA	2.51	128.25	123.86
14	AI	103	BCL	C1C-NC-C4C	2.51	107.83	106.71
16	bi	101	V7N	C35-C13-C12	2.51	122.03	118.08
14	AJ	101	BCL	CMB-C2B-C3B	2.51	129.37	124.68
14	ai	101	BCL	C2A-C1A-CHA	2.51	128.24	123.86
16	BD	101	V7N	C36-C18-C19	2.51	122.03	118.08
14	af	101	BCL	C2A-C1A-CHA	2.51	128.24	123.86
14	ae	102	BCL	OBB-CAB-CBB	-2.51	114.53	120.17
14	AX	102	BCL	OBB-CAB-CBB	-2.50	114.53	120.17
14	BE	104	BCL	C1-O2A-CGA	2.50	123.01	116.44
14	AV	103	BCL	C4B-C3B-CAB	-2.50	122.29	127.13
22	H1	103	PGW	O01-C1-C2	2.50	116.89	111.50
14	AN	101	BCL	C2A-C1A-CHA	2.50	128.23	123.86
14	AN	104	BCL	CBA-CAA-C2A	2.50	121.25	113.86
14	aa	1001	BCL	OBB-CAB-CBB	-2.50	114.54	120.17
16	bg	101	V7N	C33-C5-C4	2.50	122.02	118.08
14	AX	103	BCL	CMB-C2B-C3B	2.50	129.35	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	BJ	1004	LMT	C3'-C4'-C5'	-2.50	105.20	110.93
16	BD	101	V7N	C35-C13-C14	-2.50	119.43	122.92
15	BK	1003	LMT	O1B-C1B-C2B	2.50	114.57	108.10
16	BC	101	V7N	C36-C18-C17	-2.50	119.43	122.92
14	AJ	102	BCL	C1-C2-C3	-2.50	121.73	126.04
16	BS	1001	V7N	C36-C18-C17	-2.50	119.43	122.92
14	ab	102	BCL	OBB-CAB-CBB	-2.49	114.56	120.17
14	AV	103	BCL	C2A-C1A-CHA	2.49	128.22	123.86
14	al	1001	BCL	OBB-CAB-CBB	-2.49	114.56	120.17
16	BD	101	V7N	C33-C5-C4	2.49	122.01	118.08
14	BJ	1002	BCL	C2A-C1A-CHA	2.49	128.22	123.86
14	AV	102	BCL	CMB-C2B-C3B	2.49	129.34	124.68
14	AP	102	BCL	CMB-C2B-C3B	2.49	129.34	124.68
15	BG	1003	LMT	C3'-C4'-C5'	-2.49	105.21	110.93
16	BI	1001	V7N	C36-C18-C19	2.49	122.00	118.08
16	bl	102	V7N	C36-C18-C19	2.49	122.00	118.08
14	ao	102	BCL	C2A-C1A-CHA	2.49	128.22	123.86
16	BX	1001	V7N	C33-C5-C4	2.49	122.00	118.08
14	BE	104	BCL	CAA-CBA-CGA	2.49	120.53	113.25
16	bd	101	V7N	C36-C18-C17	-2.49	119.44	122.92
15	bn	105	LMT	C1'-O5'-C5'	-2.49	108.80	113.69
16	BO	1001	V7N	C35-C13-C12	2.49	122.00	118.08
16	BK	1001	V7N	C36-C18-C17	-2.49	119.44	122.92
21	H1	102	CD4	O3-C17-C18	2.48	119.70	111.91
14	ae	102	BCL	C2A-C1A-CHA	2.48	128.20	123.86
15	bm	103	LMT	O5B-C5B-C4B	2.48	114.20	109.69
16	BH	1001	V7N	C36-C18-C19	2.48	121.99	118.08
14	BT	103	BCL	C2A-C1A-CHA	2.48	128.20	123.86
16	BL	1001	V7N	C35-C13-C12	2.48	121.99	118.08
14	aj	103	BCL	OBB-CAB-CBB	-2.48	114.59	120.17
16	AO	1001	V7N	C35-C13-C12	2.48	121.98	118.08
14	AL	101	BCL	C2A-C1A-CHA	2.48	128.19	123.86
14	AQ	101	BCL	C2A-C1A-CHA	2.48	128.19	123.86
14	ab	102	BCL	CMB-C2B-C3B	2.47	129.31	124.68
14	AE	1001	BCL	OBB-CAB-CBB	-2.47	114.61	120.17
14	AQ	102	BCL	CMB-C2B-C3B	2.47	129.30	124.68
14	AC	103	BCL	C2A-C1A-CHA	2.47	128.18	123.86
16	BA	101	V7N	C36-C18-C17	-2.47	119.46	122.92
14	AS	102	BCL	C1-C2-C3	2.47	130.32	126.04
16	BO	1001	V7N	C3-C4-C5	2.47	129.62	125.89
14	ag	1001	BCL	OBB-CAB-CBB	-2.47	114.61	120.17
14	AI	103	BCL	C2A-C1A-CHA	2.47	128.18	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	ak	1001	BCL	C2A-C1A-CHA	2.47	128.18	123.86
14	an	1001	BCL	OBB-CAB-CBB	-2.47	114.62	120.17
14	ah	1001	BCL	OBB-CAB-CBB	-2.47	114.62	120.17
16	BR	1001	V7N	C36-C18-C17	-2.47	119.47	122.92
14	AE	1001	BCL	CMB-C2B-C3B	2.47	129.29	124.68
16	BS	1001	V7N	C36-C18-C19	2.47	121.96	118.08
14	ap	1001	BCL	OBB-CAB-CBB	-2.47	114.62	120.17
20	be	102	0V9	O3-C30-O5	-2.46	117.37	123.59
14	AB	1001	BCL	C4B-C3B-CAB	-2.46	122.37	127.13
14	AV	103	BCL	OBB-CAB-CBB	-2.46	114.63	120.17
16	BV	1001	V7N	C33-C5-C4	2.46	121.95	118.08
15	BH	1003	LMT	C1-O1'-C1'	2.46	117.92	113.84
16	bk	101	V7N	C33-C5-C4	2.46	121.95	118.08
21	af	102	CD4	O2-C14-O1	-2.46	117.76	123.70
14	AR	101	BCL	CMB-C2B-C3B	2.46	129.28	124.68
14	ai	101	BCL	OBB-CAB-CBB	-2.46	114.64	120.17
14	BU	1004	BCL	C2A-C1A-CHA	2.46	128.16	123.86
14	ac	1001	BCL	OBB-CAB-CBB	-2.46	114.64	120.17
14	ak	1001	BCL	OBB-CAB-CBB	-2.46	114.64	120.17
16	BG	1001	V7N	C35-C13-C12	2.46	121.95	118.08
14	an	1001	BCL	C2A-C1A-CHA	2.46	128.15	123.86
14	ab	102	BCL	C2A-C1A-CHA	2.45	128.15	123.86
16	bc	101	V7N	C35-C13-C12	2.45	121.94	118.08
14	AB	1002	BCL	OBB-CAB-CBB	-2.45	114.66	120.17
14	af	101	BCL	OBB-CAB-CBB	-2.45	114.66	120.17
16	BJ	1001	V7N	C36-C18-C17	-2.45	119.50	122.92
16	bo	102	V7N	C33-C5-C4	2.45	121.93	118.08
27	M	404	CRT	C36-C35-C33	2.45	129.59	125.89
15	BT	102	LMT	O5B-C5B-C4B	2.44	114.13	109.69
16	BL	1001	V7N	C33-C5-C4	2.44	121.93	118.08
16	bb	101	V7N	C35-C13-C12	2.44	121.92	118.08
15	M	403	LMT	C3'-C4'-C5'	-2.44	105.33	110.93
14	M	405	BCL	OBB-CAB-CBB	-2.44	114.67	120.17
23	M	407	MQ8	C15-C13-C12	2.44	126.06	121.12
16	BD	101	V7N	C36-C18-C17	-2.44	119.50	122.92
14	BR	1004	BCL	C2A-C1A-CHA	2.44	128.12	123.86
16	BI	1001	V7N	C36-C18-C17	-2.44	119.51	122.92
16	bk	101	V7N	C36-C18-C17	-2.44	119.51	122.92
16	bl	102	V7N	C35-C13-C14	-2.44	119.51	122.92
16	BQ	1001	V7N	C36-C18-C17	-2.44	119.51	122.92
16	BV	1001	V7N	C36-C18-C17	-2.44	119.51	122.92
15	BI	1006	LMT	C3'-C4'-C5'	-2.44	105.34	110.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	M	408	BCL	CMB-C2B-C3B	2.43	129.23	124.68
14	BL	1003	BCL	C4B-C3B-CAB	-2.43	122.43	127.13
16	bi	101	V7N	C30-C1-C2	-2.43	107.12	110.86
15	BH	1003	LMT	C3'-C4'-C5'	-2.43	105.35	110.93
14	BO	1004	BCL	C2A-C1A-CHA	2.43	128.11	123.86
19	C1	1002	NDG	C1-O5-C5	2.43	115.48	112.19
16	bm	101	V7N	C35-C13-C12	2.43	121.91	118.08
14	ap	1001	BCL	C2A-C1A-CHA	2.43	128.10	123.86
15	BE	103	LMT	C1'-O5'-C5'	-2.43	108.92	113.69
16	BH	1001	V7N	C35-C13-C12	2.43	121.90	118.08
14	BM	1002	BCL	C2A-C1A-CHA	2.42	128.10	123.86
14	BU	1004	BCL	C4B-C3B-CAB	-2.42	122.45	127.13
15	AC	104	LMT	C3'-C4'-C5'	-2.42	105.37	110.93
17	C	402	HEC	C1D-C2D-C3D	-2.42	105.31	107.00
16	bj	101	V7N	C30-C1-C2	-2.42	107.14	110.86
16	bi	101	V7N	C1-C2-C3	2.42	119.47	113.06
16	BO	1001	V7N	C38-C26-C27	-2.42	114.27	118.08
16	BC	101	V7N	C36-C18-C19	2.42	121.89	118.08
16	BP	1001	V7N	C35-C13-C12	2.42	121.89	118.08
14	ap	1001	BCL	O2A-C1-C2	-2.42	102.28	108.64
14	AD	102	BCL	OBB-CAB-CBB	-2.42	114.73	120.17
16	bn	102	V7N	C33-C5-C4	2.42	121.88	118.08
15	BR	1002	LMT	C3'-C4'-C5'	-2.42	105.39	110.93
14	AA	1002	BCL	C1C-NC-C4C	2.42	107.79	106.71
16	BX	1001	V7N	C36-C18-C19	2.42	121.88	118.08
16	BQ	1001	V7N	C33-C5-C4	2.41	121.88	118.08
14	AC	101	BCL	CAC-C3C-C4C	2.41	117.94	112.58
16	bp	101	V7N	C29-C28-C27	-2.41	115.69	123.22
16	BX	1001	V7N	C29-C28-C27	-2.41	115.69	123.22
14	ao	102	BCL	OBB-CAB-CBB	-2.41	114.74	120.17
16	BJ	1001	V7N	C33-C5-C4	2.41	121.88	118.08
16	BP	1001	V7N	C33-C5-C4	2.41	121.88	118.08
14	AN	104	BCL	C4A-NA-C1A	2.41	107.79	106.71
14	AI	103	BCL	OBB-CAB-CBB	-2.41	114.75	120.17
16	BQ	1001	V7N	C15-C14-C13	-2.41	123.87	127.31
16	BV	1001	V7N	C35-C13-C12	2.41	121.87	118.08
14	AQ	101	BCL	OBB-CAB-CBB	-2.41	114.75	120.17
15	BG	1002	LMT	C3'-C4'-C5'	-2.41	105.41	110.93
14	ad	1001	BCL	C2A-C1A-CHA	2.41	128.07	123.86
16	BB	101	V7N	C38-C26-C27	-2.41	114.29	118.08
14	AD	102	BCL	C4B-C3B-CAB	-2.40	122.48	127.13
14	AM	102	BCL	OBB-CAB-CBB	-2.40	114.76	120.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	BA	101	V7N	C35-C13-C12	2.40	121.86	118.08
14	AJ	102	BCL	C2A-C1A-CHA	2.40	128.06	123.86
16	BW	1001	V7N	C15-C14-C13	-2.40	123.88	127.31
14	AC	101	BCL	C2A-C1A-CHA	2.40	128.06	123.86
16	BE	101	V7N	C36-C18-C17	-2.40	119.56	122.92
16	bd	101	V7N	C36-C18-C19	2.40	121.85	118.08
15	BV	1004	LMT	C3'-C4'-C5'	-2.40	105.43	110.93
14	AH	101	BCL	C2A-C1A-CHA	2.40	128.05	123.86
16	BM	1001	V7N	C36-C18-C17	-2.39	119.57	122.92
16	bg	101	V7N	C16-C17-C18	-2.39	123.89	127.31
14	aj	103	BCL	C2A-C1A-CHA	2.39	128.04	123.86
14	AX	102	BCL	C2A-C1A-CHA	2.39	128.04	123.86
25	L	1009	BPH	OBB-CAB-CBB	-2.39	114.79	120.17
15	AX	101	LMT	O5'-C1'-C2'	-2.39	105.29	110.35
14	BH	1005	BCL	C2A-C1A-CHA	2.39	128.04	123.86
16	BH	1001	V7N	C3-C4-C5	2.39	129.50	125.89
16	BW	1001	V7N	C36-C18-C17	-2.39	119.58	122.92
16	bj	101	V7N	C36-C18-C17	-2.39	119.58	122.92
15	AA	1003	LMT	O1'-C1'-C2'	2.39	112.03	108.30
14	ad	1001	BCL	OBB-CAB-CBB	-2.39	114.80	120.17
16	bl	102	V7N	C36-C18-C17	-2.39	119.58	122.92
16	bd	101	V7N	C33-C5-C4	2.39	121.83	118.08
14	bm	104	BCL	O2A-C1-C2	-2.38	102.37	108.64
16	BP	1001	V7N	C15-C14-C13	-2.38	123.91	127.31
16	BB	101	V7N	C33-C5-C4	2.38	121.83	118.08
14	BC	104	BCL	C4B-C3B-CAB	-2.38	122.53	127.13
14	al	1001	BCL	C2A-C1A-CHA	2.38	128.02	123.86
14	bm	104	BCL	C4B-C3B-CAB	-2.38	122.54	127.13
15	BQ	1005	LMT	C3'-C4'-C5'	-2.38	105.48	110.93
15	BX	1004	LMT	C1-O1'-C1'	2.37	117.78	113.84
14	BX	1002	BCL	C2A-C1A-CHA	2.37	128.01	123.86
16	BW	1001	V7N	C36-C18-C19	2.37	121.82	118.08
14	AS	104	BCL	OBB-CAB-CBB	-2.37	114.83	120.17
14	BR	1004	BCL	OBB-CAB-CBB	-2.37	114.83	120.17
14	ba	103	BCL	C2A-C1A-CHA	2.37	128.00	123.86
21	H1	104	CD4	O16-C46-C47	2.37	116.60	111.50
15	BQ	1002	LMT	O5'-C1'-O1'	-2.37	104.37	109.97
15	AX	101	LMT	O1'-C1'-C2'	2.37	112.00	108.30
16	bh	102	V7N	C35-C13-C14	-2.37	119.61	122.92
14	bp	102	BCL	C2A-C1A-CHA	2.37	128.00	123.86
20	aj	101	0V9	C2-O2-C10	2.37	123.61	117.79
21	M	402	CD4	O14-C35-C36	2.36	119.32	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	BS	1005	LMT	C3'-C4'-C5'	-2.36	105.51	110.93
21	aj	102	CD4	O2-C15-C28	2.36	116.95	108.40
15	bb	102	LMT	O5'-C1'-O1'	-2.36	104.39	109.97
14	BN	103	BCL	C4B-C3B-CAB	-2.36	122.57	127.13
14	bj	103	BCL	OBB-CAB-CBB	-2.36	114.86	120.17
17	C	402	HEC	CBA-CAA-C2A	-2.36	108.63	112.60
16	BA	101	V7N	C36-C18-C19	2.36	121.79	118.08
14	BU	1004	BCL	C4A-NA-C1A	2.35	107.76	106.71
14	L	1010	BCL	OBB-CAB-CBB	-2.35	114.88	120.17
15	bn	105	LMT	O1'-C1'-C2'	2.35	111.97	108.30
14	BN	103	BCL	OBB-CAB-CBB	-2.35	114.88	120.17
14	bm	104	BCL	C4A-NA-C1A	2.35	107.76	106.71
14	bd	102	BCL	C2A-C1A-CHA	2.35	127.96	123.86
16	BQ	1001	V7N	C35-C13-C12	2.35	121.77	118.08
15	BF	101	LMT	O1'-C1'-C2'	2.35	111.97	108.30
15	AH	104	LMT	O5B-C5B-C4B	2.35	113.95	109.69
14	AP	103	BCL	OBB-CAB-CBB	-2.34	114.89	120.17
20	bi	103	0V9	O2-C10-O4	-2.34	118.04	123.70
15	BQ	1002	LMT	C3'-C4'-C5'	-2.34	105.56	110.93
15	AE	1002	LMT	C3'-C4'-C5'	-2.34	105.56	110.93
23	M	407	MQ8	C14-C13-C15	-2.34	111.34	115.27
14	BQ	1003	BCL	C2A-C1A-CHA	2.34	127.94	123.86
16	BI	1001	V7N	C35-C13-C12	2.33	121.76	118.08
16	BW	1001	V7N	C35-C13-C12	2.33	121.76	118.08
16	bh	102	V7N	C36-C18-C19	2.33	121.76	118.08
15	BG	1006	LMT	C1'-O5'-C5'	-2.33	109.11	113.69
14	BE	104	BCL	C1-C2-C3	-2.33	122.01	126.04
14	BN	103	BCL	C2A-C1A-CHA	2.33	127.94	123.86
14	L	1002	BCL	CMB-C2B-C3B	2.33	129.04	124.68
16	BH	1001	V7N	C36-C18-C17	-2.33	119.66	122.92
15	AA	1004	LMT	C3'-C4'-C5'	-2.33	105.58	110.93
16	BA	101	V7N	C33-C5-C4	2.33	121.75	118.08
21	H1	104	CD4	O2-C14-O1	-2.33	118.08	123.70
16	BE	101	V7N	C36-C18-C19	2.33	121.75	118.08
23	M	407	MQ8	C12-C11-C3	2.33	118.32	112.05
14	ag	1001	BCL	C2A-C1A-CHA	2.33	127.93	123.86
20	bb	103	0V9	O2-C10-O4	-2.33	118.08	123.70
16	ba	101	V7N	C4-C5-C6	-2.32	115.38	118.94
14	BG	1004	BCL	C2A-C1A-CHA	2.32	127.92	123.86
16	BO	1001	V7N	C36-C18-C19	2.32	121.74	118.08
15	BC	103	LMT	C3'-C4'-C5'	-2.32	105.60	110.93
20	bi	103	0V9	O3P-P-O2P	2.32	118.13	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	AE	1002	LMT	O1'-C1'-C2'	2.32	111.92	108.30
14	BQ	1003	BCL	OBB-CAB-CBB	-2.32	114.95	120.17
15	BK	1002	LMT	C1'-O5'-C5'	-2.32	109.14	113.69
16	BM	1001	V7N	C33-C5-C4	2.32	121.73	118.08
15	BR	1002	LMT	O5B-C5B-C4B	2.31	113.90	109.69
14	BS	1003	BCL	C2A-C1A-CHA	2.31	127.91	123.86
16	BG	1001	V7N	C36-C18-C17	-2.31	119.68	122.92
15	BN	105	LMT	C3'-C4'-C5'	-2.31	105.62	110.93
16	BQ	1001	V7N	C36-C18-C19	2.31	121.72	118.08
16	bj	101	V7N	C1-C2-C3	2.31	119.18	113.06
14	BP	1005	BCL	C2A-C1A-CHA	2.31	127.90	123.86
20	bg	104	0V9	O3-C30-O5	-2.31	117.76	123.59
14	BL	1003	BCL	C2A-C1A-CHA	2.31	127.90	123.86
16	ba	101	V7N	C7-C6-C5	2.31	130.60	127.31
14	BP	1005	BCL	OBB-CAB-CBB	-2.31	114.98	120.17
14	bg	105	BCL	C1C-NC-C4C	2.31	107.74	106.71
14	BX	1002	BCL	C4B-C3B-CAB	-2.31	122.67	127.13
20	bg	102	0V9	O3P-P-O2P	2.31	118.08	109.07
16	be	101	V7N	C35-C13-C14	-2.31	119.69	122.92
15	BA	104	LMT	C1'-O5'-C5'	-2.31	109.16	113.69
15	AQ	103	LMT	C3B-C4B-C5B	-2.31	106.13	110.24
15	BP	1003	LMT	C1'-O5'-C5'	-2.30	109.16	113.69
16	bc	101	V7N	C36-C18-C19	2.30	121.71	118.08
15	AN	103	LMT	C3'-C4'-C5'	-2.30	105.65	110.93
16	BD	101	V7N	C35-C13-C12	2.30	121.70	118.08
14	bi	104	BCL	CBA-CAA-C2A	2.30	120.65	113.86
14	AC	101	BCL	OBB-CAB-CBB	-2.30	114.99	120.17
14	bf	103	BCL	OBB-CAB-CBB	-2.30	114.99	120.17
14	bn	103	BCL	C4B-C3B-CAB	-2.30	122.69	127.13
14	BD	105	BCL	OBB-CAB-CBB	-2.30	115.00	120.17
14	M	408	BCL	C1C-NC-C4C	2.30	107.74	106.71
14	AR	102	BCL	OBB-CAB-CBB	-2.30	115.00	120.17
15	BF	101	LMT	C1'-O5'-C5'	-2.29	109.18	113.69
15	AN	103	LMT	C1-O1'-C1'	2.29	117.64	113.84
14	AV	101	BCL	C1C-NC-C4C	2.29	107.74	106.71
14	BI	1003	BCL	C4B-C3B-CAB	-2.29	122.70	127.13
20	bl	103	0V9	O3P-P-O2P	2.29	118.02	109.07
14	L	1010	BCL	C4A-NA-C1A	2.29	107.74	106.71
16	BR	1001	V7N	C35-C13-C12	2.29	121.69	118.08
16	bi	101	V7N	C33-C5-C4	2.29	121.69	118.08
15	bm	105	LMT	C3'-C4'-C5'	-2.29	105.67	110.93
15	BH	1002	LMT	C1-O1'-C1'	2.29	117.63	113.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BA	103	BCL	C4B-C3B-CAB	-2.29	122.71	127.13
14	be	105	BCL	C1C-NC-C4C	2.28	107.73	106.71
16	BM	1001	V7N	C35-C13-C12	2.28	121.67	118.08
14	bm	104	BCL	C2A-C1A-CHA	2.28	127.85	123.86
16	bg	101	V7N	C35-C13-C12	2.28	121.67	118.08
14	BC	104	BCL	OBB-CAB-CBB	-2.28	115.04	120.17
14	AN	104	BCL	OBB-CAB-CBB	-2.28	115.04	120.17
14	BX	1002	BCL	C1-C2-C3	-2.28	122.11	126.04
15	be	104	LMT	O5B-C5B-C4B	2.27	113.82	109.69
16	bc	101	V7N	C15-C14-C13	-2.27	124.06	127.31
15	bb	102	LMT	C1-O1'-C1'	2.27	117.61	113.84
15	L	1007	LMT	C3'-C4'-C5'	-2.27	105.72	110.93
15	BK	1003	LMT	O5'-C1'-C2'	-2.27	105.55	110.35
14	bh	105	BCL	O2D-CGD-CBD	2.27	115.30	111.27
14	aa	1001	BCL	C2A-C1A-CHA	2.27	127.83	123.86
15	BV	1002	LMT	O1'-C1'-C2'	2.27	111.84	108.30
14	bd	102	BCL	OBB-CAB-CBB	-2.27	115.07	120.17
14	bk	102	BCL	O2A-C1-C2	-2.27	102.68	108.64
14	BS	1003	BCL	C4B-C3B-CAB	-2.26	122.75	127.13
14	AU	103	BCL	CAC-C3C-C4C	2.26	117.61	112.58
14	BR	1004	BCL	C4B-C3B-CAB	-2.26	122.76	127.13
14	BT	103	BCL	CBA-CAA-C2A	2.26	120.54	113.86
16	BH	1001	V7N	C15-C14-C13	-2.26	124.08	127.31
14	bn	103	BCL	C2A-C1A-CHA	2.26	127.81	123.86
14	AR	102	BCL	C6-C5-C3	2.26	119.39	113.45
15	BX	1004	LMT	C3'-C4'-C5'	-2.26	105.74	110.93
15	bo	105	LMT	C1-O1'-C1'	2.26	117.59	113.84
14	BH	1005	BCL	OBB-CAB-CBB	-2.26	115.09	120.17
14	BF	102	BCL	OBB-CAB-CBB	-2.26	115.09	120.17
16	BP	1001	V7N	C36-C18-C17	-2.26	119.76	122.92
14	ba	103	BCL	OBB-CAB-CBB	-2.26	115.09	120.17
25	M	406	BPH	CMD-C2D-C3D	2.26	128.90	124.68
14	BE	104	BCL	OBB-CAB-CBB	-2.26	115.09	120.17
16	BW	1001	V7N	C33-C5-C4	2.25	121.63	118.08
14	BJ	1002	BCL	C4B-C3B-CAB	-2.25	122.77	127.13
14	AH	101	BCL	C1-O2A-CGA	2.25	122.36	116.44
14	AC	103	BCL	OBB-CAB-CBB	-2.25	115.10	120.17
14	BO	1004	BCL	O2A-CGA-CBA	2.25	118.98	111.91
14	bh	105	BCL	OBB-CAB-CBB	-2.25	115.11	120.17
14	AN	101	BCL	OBB-CAB-CBB	-2.25	115.11	120.17
15	BN	102	LMT	C3'-C4'-C5'	-2.25	105.77	110.93
21	H1	102	CD4	O3-C16-C15	-2.25	101.89	108.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	bb	104	BCL	C2A-C1A-CHA	2.25	127.79	123.86
14	AV	101	BCL	OBB-CAB-CBB	-2.25	115.12	120.17
20	bk	104	0V9	O3P-P-O2P	2.24	117.83	109.07
15	BX	1003	LMT	C3'-C4'-C5'	-2.24	105.78	110.93
14	bl	104	BCL	OBB-CAB-CBB	-2.24	115.12	120.17
15	AE	1002	LMT	O5B-C5B-C4B	2.24	113.76	109.69
14	bk	102	BCL	OBB-CAB-CBB	-2.24	115.13	120.17
15	AH	102	LMT	O5'-C1'-O1'	-2.24	104.67	109.97
14	bi	104	BCL	C2A-C1A-CHA	2.24	127.78	123.86
16	bk	101	V7N	C36-C18-C19	2.24	121.60	118.08
14	bg	105	BCL	C2A-C1A-CHA	2.24	127.77	123.86
14	bk	102	BCL	C1C-NC-C4C	2.24	107.71	106.71
14	BT	103	BCL	O2A-C1-C2	-2.24	102.76	108.64
14	BD	105	BCL	C4B-C3B-CAB	-2.24	122.81	127.13
21	H1	104	CD4	O3-C17-C18	2.24	118.92	111.91
14	bp	102	BCL	OBB-CAB-CBB	-2.24	115.14	120.17
14	AG	101	BCL	C4B-C3B-CAB	-2.23	122.81	127.13
15	bm	103	LMT	O5'-C1'-C2'	-2.23	105.62	110.35
14	BW	1003	BCL	C4B-C3B-CAB	-2.23	122.81	127.13
14	AE	1003	BCL	C4B-C3B-CAB	-2.23	122.81	127.13
14	bm	104	BCL	OBB-CAB-CBB	-2.23	115.14	120.17
15	BL	1002	LMT	C3'-C4'-C5'	-2.23	105.81	110.93
14	BX	1002	BCL	OBB-CAB-CBB	-2.23	115.15	120.17
16	BB	101	V7N	C36-C18-C17	-2.23	119.80	122.92
14	AA	1002	BCL	OBB-CAB-CBB	-2.23	115.15	120.17
14	AJ	102	BCL	OBB-CAB-CBB	-2.23	115.15	120.17
14	BH	1005	BCL	CBA-CAA-C2A	2.23	120.44	113.86
24	L	1006	V7B	C43-O4-C4	-2.23	112.45	117.96
20	C1	1001	0V9	O3-C30-O5	-2.23	117.97	123.59
14	AM	102	BCL	C6-C5-C3	2.23	119.30	113.45
14	bg	105	BCL	OBB-CAB-CBB	-2.23	115.16	120.17
25	L	1009	BPH	CMD-C2D-C3D	2.23	128.84	124.68
15	BR	1002	LMT	O1'-C1'-C2'	2.23	111.78	108.30
16	BI	1001	V7N	C33-C5-C4	2.23	121.58	118.08
15	BR	1003	LMT	O5'-C1'-C2'	-2.23	105.64	110.35
16	BC	101	V7N	C35-C13-C12	2.22	121.58	118.08
20	be	102	0V9	O3P-P-O2P	2.22	117.75	109.07
14	BT	103	BCL	C4B-C3B-CAB	-2.22	122.84	127.13
16	bj	101	V7N	C36-C18-C19	2.22	121.58	118.08
23	M	407	MQ8	C21-C20-C18	2.22	120.28	112.98
14	AS	102	BCL	OBB-CAB-CBB	-2.22	115.17	120.17
14	AC	103	BCL	C4B-C3B-CAB	-2.22	122.84	127.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	BL	1002	LMT	C3B-C4B-C5B	-2.22	106.28	110.24
15	BI	1004	LMT	O1'-C1'-C2'	2.22	111.77	108.30
15	BC	102	LMT	C3'-C4'-C5'	-2.22	105.84	110.93
15	BS	1004	LMT	C3'-C4'-C5'	-2.22	105.84	110.93
14	be	105	BCL	OBB-CAB-CBB	-2.22	115.18	120.17
15	AP	101	LMT	O5'-C1'-C2'	-2.22	105.65	110.35
14	BL	1003	BCL	OBB-CAB-CBB	-2.22	115.18	120.17
14	AU	103	BCL	OBB-CAB-CBB	-2.22	115.18	120.17
14	BJ	1002	BCL	OBB-CAB-CBB	-2.22	115.18	120.17
14	BO	1004	BCL	O2A-CGA-O1A	-2.22	118.00	123.59
15	BD	102	LMT	C3'-C4'-C5'	-2.22	105.85	110.93
16	BS	1001	V7N	C35-C13-C12	2.22	121.57	118.08
14	bd	102	BCL	C1C-NC-C4C	2.22	107.70	106.71
14	AH	101	BCL	CAA-CBA-CGA	2.21	119.72	113.25
14	AL	101	BCL	OBB-CAB-CBB	-2.21	115.19	120.17
14	BP	1005	BCL	C4B-C3B-CAB	-2.21	122.86	127.13
14	BW	1003	BCL	OBB-CAB-CBB	-2.21	115.19	120.17
16	BL	1001	V7N	C36-C18-C17	-2.21	119.83	122.92
14	bl	104	BCL	C4B-C3B-CAB	-2.21	122.86	127.13
15	BR	1003	LMT	C1-O1'-C1'	2.21	117.50	113.84
20	bg	104	0V9	O2-C10-O4	-2.21	118.36	123.70
15	BK	1003	LMT	O5'-C5'-C4'	2.21	114.41	109.75
14	bf	103	BCL	C11-C10-C8	2.21	123.05	115.92
14	ab	102	BCL	C1-O2A-CGA	2.21	122.23	116.44
15	AE	1002	LMT	O1B-C4'-C3'	2.21	113.15	107.28
16	BE	101	V7N	C35-C13-C12	2.20	121.55	118.08
14	BV	1005	BCL	C4B-C3B-CAB	-2.20	122.87	127.13
16	bd	101	V7N	C1-C2-C3	2.20	118.89	113.06
14	bl	104	BCL	C2A-C1A-CHA	2.20	127.71	123.86
14	AR	102	BCL	CED-O2D-CGD	2.20	120.91	115.94
16	bm	101	V7N	C36-C18-C19	2.20	121.54	118.08
14	AG	101	BCL	OBB-CAB-CBB	-2.20	115.22	120.17
14	BT	103	BCL	OBB-CAB-CBB	-2.20	115.22	120.17
20	be	103	0V9	O2-C10-O4	-2.20	118.40	123.70
18	C	405	V75	C3-O3-C3A	-2.20	114.32	117.72
14	BV	1005	BCL	OBB-CAB-CBB	-2.19	115.23	120.17
14	BK	1006	BCL	OBB-CAB-CBB	-2.19	115.23	120.17
15	bm	103	LMT	C1-O1'-C1'	2.19	117.48	113.84
20	bn	104	0V9	O3-C30-O5	-2.19	118.06	123.59
16	BU	1001	V7N	C35-C13-C12	2.19	121.53	118.08
14	AC	101	BCL	C4A-NA-C1A	2.19	107.69	106.71
20	bc	103	0V9	O3P-P-O2P	2.19	117.62	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BO	1004	BCL	OBB-CAB-CBB	-2.19	115.25	120.17
14	BO	1004	BCL	C4B-C3B-CAB	-2.19	122.90	127.13
14	L	1002	BCL	C1-O2A-CGA	2.19	122.18	116.44
14	bb	104	BCL	OBB-CAB-CBB	-2.19	115.25	120.17
14	BK	1006	BCL	CBA-CAA-C2A	2.19	120.32	113.86
15	AJ	104	LMT	O5B-C5B-C4B	2.19	113.66	109.69
20	bg	104	0V9	O3P-P-O2P	2.19	117.61	109.07
16	BL	1001	V7N	C38-C26-C27	-2.19	114.63	118.08
15	bc	104	LMT	C3B-C4B-C5B	-2.18	106.34	110.24
14	BI	1003	BCL	C2A-C1A-CHA	2.18	127.68	123.86
14	bb	104	BCL	C4B-C3B-CAB	-2.18	122.91	127.13
14	bo	103	BCL	OBB-CAB-CBB	-2.18	115.26	120.17
16	AE	1005	V7N	C33-C5-C4	2.18	121.51	118.08
14	bj	103	BCL	C1C-NC-C4C	2.18	107.69	106.71
21	M	402	CD4	O2-C14-O1	-2.18	118.44	123.70
14	BW	1003	BCL	C1-O2A-CGA	2.18	122.16	116.44
14	bc	102	BCL	OBB-CAB-CBB	-2.18	115.27	120.17
20	be	103	0V9	O3P-P-O2P	2.18	117.58	109.07
15	AP	101	LMT	C1'-O5'-C5'	-2.18	109.41	113.69
14	ah	1001	BCL	C2A-C1A-CHA	2.18	127.67	123.86
14	BM	1002	BCL	C4B-C3B-CAB	-2.18	122.92	127.13
21	af	102	CD4	O14-C35-C36	2.18	118.74	111.91
14	BA	103	BCL	OBB-CAB-CBB	-2.18	115.27	120.17
14	BI	1003	BCL	OBB-CAB-CBB	-2.18	115.27	120.17
14	bi	104	BCL	OBB-CAB-CBB	-2.18	115.27	120.17
14	BE	104	BCL	C4B-C3B-CAB	-2.17	122.93	127.13
14	BB	103	BCL	OBB-CAB-CBB	-2.17	115.28	120.17
15	BD	104	LMT	C1'-O5'-C5'	-2.17	109.42	113.69
15	bl	101	LMT	O5B-C5B-C4B	2.17	113.64	109.69
16	BC	101	V7N	C33-C5-C4	2.17	121.50	118.08
16	AS	105	V7N	C33-C5-C4	2.17	121.50	118.08
15	BB	104	LMT	C1-O1'-C1'	2.17	117.44	113.84
14	bn	103	BCL	OBB-CAB-CBB	-2.17	115.29	120.17
14	BG	1004	BCL	C4B-C3B-CAB	-2.17	122.94	127.13
15	BG	1002	LMT	O5'-C1'-O1'	-2.17	104.84	109.97
20	bg	102	0V9	O1P-P-O4P	-2.16	97.69	107.75
16	BK	1001	V7N	C33-C5-C4	2.16	121.49	118.08
14	BF	102	BCL	C4B-C3B-CAB	-2.16	122.95	127.13
14	AE	1004	BCL	OBB-CAB-CBB	-2.16	115.30	120.17
15	BB	102	LMT	C1'-O5'-C5'	-2.16	109.45	113.69
14	BQ	1003	BCL	C4B-C3B-CAB	-2.16	122.95	127.13
14	BM	1002	BCL	OBB-CAB-CBB	-2.16	115.31	120.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BG	1004	BCL	OBB-CAB-CBB	-2.16	115.31	120.17
15	BD	103	LMT	C3'-C4'-C5'	-2.16	105.98	110.93
14	AE	1003	BCL	OBB-CAB-CBB	-2.16	115.32	120.17
15	bg	103	LMT	C3'-C4'-C5'	-2.16	105.98	110.93
16	bi	101	V7N	C36-C18-C19	2.15	121.47	118.08
14	AQ	101	BCL	C1C-NC-C4C	2.15	107.67	106.71
14	BU	1004	BCL	OBB-CAB-CBB	-2.15	115.33	120.17
20	H1	101	0V9	O2-C10-O4	-2.15	118.50	123.70
14	bf	103	BCL	C1C-NC-C4C	2.15	107.67	106.71
14	BS	1003	BCL	OBB-CAB-CBB	-2.15	115.33	120.17
25	M	406	BPH	C1-C2-C3	2.15	129.76	126.04
21	aj	102	CD4	O14-C35-C36	2.15	118.66	111.91
14	AV	101	BCL	C4B-C3B-CAB	-2.15	122.98	127.13
14	bj	103	BCL	C4B-C3B-CAB	-2.15	122.98	127.13
16	bi	101	V7N	C31-C1-C2	2.15	114.16	110.86
14	AM	102	BCL	C1-C2-C3	2.15	129.75	126.04
15	bo	105	LMT	O5'-C1'-O1'	-2.15	104.89	109.97
14	AE	1004	BCL	C4B-C3B-CAB	-2.14	122.99	127.13
16	BC	101	V7N	C15-C14-C13	-2.14	124.25	127.31
14	AS	102	BCL	C4B-C3B-CAB	-2.14	122.99	127.13
14	AU	103	BCL	C1-C2-C3	2.14	129.75	126.04
24	L	1006	V7B	C43-O52-C47	2.14	117.89	113.69
15	BS	1006	LMT	O1'-C1'-C2'	2.14	111.65	108.30
24	ag	1002	V7B	O8-C9-C8	2.14	114.67	108.43
14	AM	102	BCL	C1-O2A-CGA	2.14	122.06	116.44
24	L	1006	V7B	O8-C28-C29	2.14	118.62	111.91
14	AC	101	BCL	C4B-C3B-CAB	-2.14	123.00	127.13
20	C1	1001	0V9	O3P-P-O2P	2.14	117.42	109.07
15	BS	1002	LMT	C3'-C4'-C5'	-2.13	106.03	110.93
15	AQ	103	LMT	C3'-C4'-C5'	-2.13	106.03	110.93
15	BE	102	LMT	O5'-C1'-C2'	-2.13	105.84	110.35
14	ah	1001	BCL	C1-O2A-CGA	2.13	122.04	116.44
14	BB	103	BCL	C4B-C3B-CAB	-2.13	123.01	127.13
24	ag	1002	V7B	C7-O1-C1	2.13	117.90	113.74
20	bj	104	0V9	O3P-P-O2P	2.13	117.39	109.07
14	ba	103	BCL	C1C-NC-C4C	2.13	107.66	106.71
20	H1	101	0V9	O3-C30-O5	-2.13	118.22	123.59
20	bp	103	0V9	O3-C30-O5	-2.13	118.22	123.59
16	bp	101	V7N	C35-C13-C12	2.13	121.43	118.08
14	AL	101	BCL	C1C-NC-C4C	2.12	107.66	106.71
14	AK	101	BCL	OBB-CAB-CBB	-2.12	115.39	120.17
14	AC	101	BCL	CAC-C3C-C2C	-2.12	108.95	114.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	BL	1004	LMT	O5B-C5B-C4B	2.12	113.55	109.69
14	bd	102	BCL	C4B-C3B-CAB	-2.12	123.03	127.13
14	M	408	BCL	OBB-CAB-CBB	-2.12	115.39	120.17
15	bj	102	LMT	C1-O1'-C1'	2.12	117.36	113.84
14	AH	101	BCL	C4B-C3B-CAB	-2.12	123.03	127.13
15	AJ	103	LMT	C1-O1'-C1'	2.12	117.36	113.84
16	AS	105	V7N	C16-C17-C18	-2.12	124.29	127.31
20	ba	102	0V9	O3-C30-O5	-2.12	118.25	123.59
15	BA	104	LMT	C3'-C4'-C5'	-2.12	106.07	110.93
14	bm	104	BCL	C4-C3-C5	-2.12	111.71	115.27
16	AO	1001	V7N	C36-C18-C17	-2.12	119.96	122.92
15	AG	103	LMT	O5B-C5B-C4B	2.12	113.54	109.69
14	bl	104	BCL	C1C-NC-C4C	2.12	107.66	106.71
16	bp	101	V7N	C36-C18-C19	2.11	121.41	118.08
16	BR	1001	V7N	C36-C18-C19	2.11	121.41	118.08
15	AP	101	LMT	O5'-C5'-C4'	2.11	114.20	109.75
14	AQ	101	BCL	C6-C5-C3	2.11	118.99	113.45
14	bh	105	BCL	C4B-C3B-CAB	-2.11	123.05	127.13
15	BE	102	LMT	O5'-C5'-C4'	2.11	114.20	109.75
15	AJ	103	LMT	C1'-O5'-C5'	-2.11	109.55	113.69
17	C	404	HEC	CAD-CBD-CGD	-2.11	107.85	113.76
16	bo	102	V7N	C15-C14-C13	-2.11	124.30	127.31
15	BN	101	LMT	C3'-C4'-C5'	-2.11	106.10	110.93
14	bm	104	BCL	C1C-NC-C4C	2.10	107.65	106.71
14	AH	101	BCL	OBB-CAB-CBB	-2.10	115.43	120.17
15	bl	105	LMT	C1'-O5'-C5'	-2.10	109.56	113.69
16	bf	101	V7N	C36-C18-C19	2.10	121.39	118.08
20	bl	103	0V9	O3-C30-O5	-2.10	118.28	123.59
15	bd	103	LMT	C3'-C4'-C5'	-2.10	106.11	110.93
20	bm	102	0V9	O2-C10-O4	-2.10	118.62	123.70
14	AJ	102	BCL	C1C-NC-C4C	2.10	107.65	106.71
17	C	401	HEC	CBD-CAD-C3D	-2.10	109.04	112.62
16	ba	101	V7N	C23-C24-C25	2.10	118.77	111.88
15	BS	1004	LMT	O1'-C1'-C2'	2.10	111.58	108.30
15	bj	102	LMT	C1'-O5'-C5'	-2.10	109.57	113.69
20	bo	104	0V9	O3-C30-O5	-2.10	118.30	123.59
15	AJ	103	LMT	C2'-C3'-C4'	2.09	114.46	109.68
25	M	406	BPH	CMB-C2B-C3B	2.09	128.59	124.68
14	aa	1001	BCL	C4B-C3B-CAB	-2.09	123.09	127.13
14	AC	103	BCL	C4A-NA-C1A	2.09	107.65	106.71
14	bc	102	BCL	C1C-NC-C4C	2.09	107.64	106.71
16	bl	102	V7N	C1-C2-C3	2.09	118.59	113.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	BV	1002	LMT	C3'-C4'-C5'	-2.09	106.14	110.93
15	bb	102	LMT	O5B-C5B-C4B	2.09	113.48	109.69
16	bl	102	V7N	C3-C4-C5	2.09	129.04	125.89
14	bi	104	BCL	C4B-C3B-CAB	-2.08	123.10	127.13
15	bl	101	LMT	O1'-C1'-C2'	2.08	111.56	108.30
14	bp	102	BCL	C4B-C3B-CAB	-2.08	123.11	127.13
16	be	101	V7N	C29-C28-C27	-2.08	116.72	123.22
16	bg	101	V7N	C15-C14-C13	-2.08	124.34	127.31
14	BU	1004	BCL	C9-C8-C10	-2.08	103.76	111.29
14	M	405	BCL	C4B-C3B-CAB	-2.08	123.11	127.13
15	AS	101	LMT	O5B-C5B-C4B	2.08	113.47	109.69
14	AA	1002	BCL	C6-C5-C3	2.08	118.91	113.45
28	ai	102	UYH	O7-C10-C11	2.08	115.98	111.50
14	ao	102	BCL	C6-C5-C3	2.08	118.90	113.45
14	AX	102	BCL	C4B-C3B-CAB	-2.08	123.12	127.13
14	bm	104	BCL	C1-C2-C3	2.07	129.63	126.04
14	ai	101	BCL	C4B-C3B-CAB	-2.07	123.12	127.13
15	bh	104	LMT	C1-O1'-C1'	2.07	117.28	113.84
15	BK	1004	LMT	C1'-O5'-C5'	-2.07	109.63	113.69
14	BL	1003	BCL	CBA-CAA-C2A	2.07	119.97	113.86
14	bj	103	BCL	C2A-C1A-CHA	2.07	127.47	123.86
16	AE	1005	V7N	C36-C18-C19	2.07	121.33	118.08
14	AE	1004	BCL	C1-O2A-CGA	2.07	121.86	116.44
14	AG	101	BCL	CBA-CAA-C2A	2.06	119.96	113.86
14	ah	1001	BCL	C4B-C3B-CAB	-2.06	123.14	127.13
16	bm	101	V7N	C3-C4-C5	2.06	129.01	125.89
15	BK	1002	LMT	C3B-C4B-C5B	-2.06	106.56	110.24
15	BA	105	LMT	C1'-O5'-C5'	-2.06	109.64	113.69
16	BB	101	V7N	C35-C13-C12	2.06	121.32	118.08
14	L	1002	BCL	OBB-CAB-CBB	-2.06	115.53	120.17
14	AP	103	BCL	C4B-C3B-CAB	-2.06	123.15	127.13
15	BO	1002	LMT	C1'-O5'-C5'	-2.06	109.65	113.69
15	be	104	LMT	C1'-O5'-C5'	-2.06	109.65	113.69
15	BM	1004	LMT	O1'-C1'-C2'	2.06	111.52	108.30
14	ao	102	BCL	C4B-C3B-CAB	-2.06	123.15	127.13
14	AX	102	BCL	C1C-NC-C4C	2.06	107.63	106.71
15	bm	105	LMT	O1'-C1'-C2'	2.06	111.52	108.30
16	bo	102	V7N	C35-C13-C12	2.06	121.32	118.08
15	BU	1003	LMT	C3'-C4'-C5'	-2.06	106.21	110.93
14	AA	1002	BCL	C4B-C3B-CAB	-2.06	123.16	127.13
14	an	1001	BCL	C4B-C3B-CAB	-2.06	123.16	127.13
14	AJ	102	BCL	C4B-C3B-CAB	-2.06	123.16	127.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	bc	102	BCL	C4B-C3B-CAB	-2.05	123.16	127.13
16	BE	101	V7N	C33-C5-C4	2.05	121.31	118.08
14	AQ	101	BCL	C4B-C3B-CAB	-2.05	123.16	127.13
20	bp	103	0V9	O3P-P-O2P	2.05	117.09	109.07
17	C	403	HEC	CBA-CAA-C2A	-2.05	109.14	112.60
15	BQ	1004	LMT	C3'-C4'-C5'	-2.05	106.22	110.93
14	bo	103	BCL	C2A-C1A-CHA	2.05	127.45	123.86
14	bo	103	BCL	C1C-NC-C4C	2.05	107.63	106.71
15	AI	101	LMT	O1B-C1B-C2B	2.05	113.41	108.10
14	AP	102	BCL	C6-C5-C3	2.05	118.82	113.45
20	bj	104	0V9	C2-O2-C10	2.04	122.82	117.79
21	aj	102	CD4	C15-O2-C14	2.04	122.82	117.79
15	AJ	104	LMT	C1'-O5'-C5'	-2.04	109.68	113.69
15	BS	1005	LMT	C1'-O5'-C5'	-2.04	109.68	113.69
15	BT	101	LMT	C1-O1'-C1'	2.04	117.23	113.84
14	BS	1003	BCL	C11-C10-C8	-2.04	109.33	115.92
16	bo	102	V7N	C36-C18-C19	2.04	121.29	118.08
28	ai	102	UYH	O1-C7-C8	-2.04	105.98	110.90
15	L	1011	LMT	C1-O1'-C1'	2.04	117.22	113.84
14	AR	102	BCL	O2D-CGD-O1D	-2.04	119.85	123.84
20	bn	104	0V9	O3P-P-O2P	2.04	117.03	109.07
20	bk	103	0V9	O3P-P-O2P	2.04	117.03	109.07
15	ab	101	LMT	C1'-O5'-C5'	-2.04	109.69	113.69
16	BD	101	V7N	O45-C40-C39	2.04	127.49	122.11
15	BI	1004	LMT	C3'-C4'-C5'	-2.03	106.26	110.93
17	C	401	HEC	C1D-C2D-C3D	-2.03	105.58	107.00
15	AA	1004	LMT	O1'-C1'-C2'	2.03	111.48	108.30
16	BK	1001	V7N	C35-C13-C12	2.03	121.28	118.08
20	bh	103	0V9	O1P-P-O4P	-2.03	98.31	107.75
20	bl	103	0V9	O1P-P-O4P	-2.03	98.32	107.75
15	bh	101	LMT	O1'-C1'-C2'	2.03	111.47	108.30
14	AK	101	BCL	C4B-C3B-CAB	-2.03	123.21	127.13
15	AI	101	LMT	O5'-C1'-O1'	-2.03	105.17	109.97
15	BC	106	LMT	C3'-C4'-C5'	-2.03	106.28	110.93
25	L	1009	BPH	C1-O2A-CGA	2.03	121.76	116.44
14	BH	1005	BCL	C4B-C3B-CAB	-2.03	123.21	127.13
15	BM	1004	LMT	C3'-C4'-C5'	-2.03	106.28	110.93
15	AX	101	LMT	O5'-C5'-C4'	2.03	114.03	109.75
15	BW	1004	LMT	C1'-O5'-C5'	-2.03	109.71	113.69
16	BX	1001	V7N	C35-C13-C12	2.03	121.27	118.08
14	AN	101	BCL	C4B-C3B-CAB	-2.03	123.22	127.13
14	bc	102	BCL	C2A-C1A-CHA	2.03	127.40	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	af	101	BCL	C4B-C3B-CAB	-2.02	123.22	127.13
15	BT	102	LMT	O5'-C1'-O1'	-2.02	105.18	109.97
16	BJ	1001	V7N	C15-C14-C13	-2.02	124.42	127.31
14	ae	102	BCL	C6-C5-C3	2.02	118.76	113.45
20	bj	104	0V9	O3-C30-O5	-2.02	118.49	123.59
16	ba	101	V7N	C16-C17-C18	-2.02	124.42	127.31
20	bk	103	0V9	O3-C30-O5	-2.02	118.49	123.59
20	bh	103	0V9	O2-C10-O4	-2.02	118.82	123.70
15	AH	104	LMT	C1B-O5B-C5B	2.02	117.65	113.69
15	AD	101	LMT	C3'-C4'-C5'	-2.02	106.30	110.93
14	bo	103	BCL	C4B-C3B-CAB	-2.02	123.23	127.13
15	BG	1002	LMT	O5B-C5B-C4B	2.02	113.36	109.69
14	bf	103	BCL	C2A-C1A-CHA	2.02	127.39	123.86
14	bf	103	BCL	C4B-C3B-CAB	-2.02	123.23	127.13
14	am	1001	BCL	C6-C5-C3	-2.02	108.17	113.45
20	bc	103	0V9	O1P-P-O4P	-2.01	98.39	107.75
14	BP	1005	BCL	O2A-C1-C2	-2.01	103.35	108.64
14	BN	103	BCL	C11-C10-C8	2.01	122.42	115.92
15	BT	101	LMT	O5'-C1'-C2'	-2.01	106.09	110.35
15	bl	105	LMT	C3'-C4'-C5'	-2.01	106.32	110.93
14	BM	1002	BCL	O2A-C1-C2	-2.01	103.36	108.64
14	L	1010	BCL	C1C-NC-C4C	2.01	107.61	106.71
20	bp	103	0V9	O2-C10-O4	-2.01	118.85	123.70
14	AU	103	BCL	C4B-C3B-CAB	-2.01	123.25	127.13
14	AC	103	BCL	CAC-C3C-C4C	2.01	117.04	112.58
15	bd	103	LMT	C1'-O5'-C5'	-2.01	109.75	113.69
16	BM	1001	V7N	O45-C40-C39	2.01	127.41	122.11
14	ap	1001	BCL	C4B-C3B-CAB	-2.01	123.25	127.13
20	H1	101	0V9	O3P-P-O2P	2.00	116.90	109.07
16	bi	101	V7N	C15-C14-C13	-2.00	124.45	127.31
15	BS	1002	LMT	C1'-O5'-C5'	-2.00	109.76	113.69
15	BS	1006	LMT	C1'-O5'-C5'	-2.00	109.76	113.69
14	bg	105	BCL	C4B-C3B-CAB	-2.00	123.26	127.13

There are no chirality outliers.

All (1911) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
14	AA	1002	BCL	CHA-CBD-CGD-O1D
14	AA	1002	BCL	CHA-CBD-CGD-O2D
14	AB	1002	BCL	C1A-C2A-CAA-CBA
14	AB	1002	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
14	AB	1002	BCL	CHA-CBD-CGD-O1D
14	AC	101	BCL	C1A-C2A-CAA-CBA
14	AC	101	BCL	C3A-C2A-CAA-CBA
14	AC	103	BCL	C3A-C2A-CAA-CBA
14	AE	1003	BCL	C1A-C2A-CAA-CBA
14	AG	101	BCL	C2C-C3C-CAC-CBC
14	AG	101	BCL	C4C-C3C-CAC-CBC
14	AH	101	BCL	C1A-C2A-CAA-CBA
14	AH	101	BCL	C3A-C2A-CAA-CBA
14	AI	103	BCL	CHA-CBD-CGD-O1D
14	AI	103	BCL	CHA-CBD-CGD-O2D
14	AJ	102	BCL	C1A-C2A-CAA-CBA
14	AJ	102	BCL	C3A-C2A-CAA-CBA
14	AJ	102	BCL	CHA-CBD-CGD-O1D
14	AJ	102	BCL	CHA-CBD-CGD-O2D
14	AK	101	BCL	C1A-C2A-CAA-CBA
14	AK	101	BCL	C3A-C2A-CAA-CBA
14	AL	101	BCL	C1A-C2A-CAA-CBA
14	AM	102	BCL	CHA-CBD-CGD-O1D
14	AM	102	BCL	CHA-CBD-CGD-O2D
14	AN	104	BCL	C1A-C2A-CAA-CBA
14	AN	104	BCL	C3A-C2A-CAA-CBA
14	AN	104	BCL	CHA-CBD-CGD-O1D
14	AN	104	BCL	CHA-CBD-CGD-O2D
14	AP	103	BCL	CHA-CBD-CGD-O1D
14	AQ	101	BCL	C1A-C2A-CAA-CBA
14	AQ	101	BCL	C3A-C2A-CAA-CBA
14	AR	102	BCL	C1A-C2A-CAA-CBA
14	AR	102	BCL	CBD-CGD-O2D-CED
14	AS	104	BCL	CBA-CGA-O2A-C1
14	AS	104	BCL	O1A-CGA-O2A-C1
14	AV	103	BCL	C1A-C2A-CAA-CBA
14	AV	103	BCL	C3A-C2A-CAA-CBA
14	AX	102	BCL	C1A-C2A-CAA-CBA
14	AX	102	BCL	C3A-C2A-CAA-CBA
14	AX	102	BCL	CHA-CBD-CGD-O1D
14	AX	102	BCL	CHA-CBD-CGD-O2D
14	BA	103	BCL	CHA-CBD-CGD-O1D
14	BA	103	BCL	CHA-CBD-CGD-O2D
14	BA	103	BCL	O2A-C1-C2-C3
14	BB	103	BCL	O2A-C1-C2-C3
14	BG	1004	BCL	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
14	BG	1004	BCL	C3A-C2A-CAA-CBA
14	BJ	1002	BCL	CHA-CBD-CGD-O1D
14	BK	1006	BCL	CHA-CBD-CGD-O1D
14	BO	1004	BCL	CBA-CGA-O2A-C1
14	BO	1004	BCL	O1A-CGA-O2A-C1
14	BP	1005	BCL	C1A-C2A-CAA-CBA
14	BP	1005	BCL	C3A-C2A-CAA-CBA
14	BQ	1003	BCL	C1A-C2A-CAA-CBA
14	BR	1004	BCL	C1A-C2A-CAA-CBA
14	BU	1004	BCL	C1A-C2A-CAA-CBA
14	BX	1002	BCL	CBA-CGA-O2A-C1
14	BX	1002	BCL	O1A-CGA-O2A-C1
14	aa	1001	BCL	O2A-C1-C2-C3
14	ao	102	BCL	C2-C3-C5-C6
14	ao	102	BCL	C4-C3-C5-C6
14	bc	102	BCL	C3A-C2A-CAA-CBA
14	be	105	BCL	C1A-C2A-CAA-CBA
14	be	105	BCL	C3A-C2A-CAA-CBA
14	bf	103	BCL	C1A-C2A-CAA-CBA
14	bf	103	BCL	C3A-C2A-CAA-CBA
14	bj	103	BCL	C1A-C2A-CAA-CBA
14	bj	103	BCL	C3A-C2A-CAA-CBA
14	bm	104	BCL	C1A-C2A-CAA-CBA
14	bm	104	BCL	C3A-C2A-CAA-CBA
14	bo	103	BCL	C1A-C2A-CAA-CBA
14	bo	103	BCL	C3A-C2A-CAA-CBA
15	AA	1003	LMT	C2'-C1'-O1'-C1
15	AA	1003	LMT	O5'-C1'-O1'-C1
15	AA	1004	LMT	C2'-C1'-O1'-C1
15	AA	1004	LMT	O5'-C1'-O1'-C1
15	AA	1004	LMT	C2-C1-O1'-C1'
15	AH	102	LMT	C2'-C1'-O1'-C1
15	AH	102	LMT	O5'-C1'-O1'-C1
15	AP	101	LMT	C2'-C1'-O1'-C1
15	AP	101	LMT	O5'-C1'-O1'-C1
15	AQ	103	LMT	C2'-C1'-O1'-C1
15	AQ	103	LMT	O5'-C1'-O1'-C1
15	AT	102	LMT	O5'-C1'-O1'-C1
15	AX	101	LMT	O5'-C1'-O1'-C1
15	BA	104	LMT	C2'-C1'-O1'-C1
15	BA	104	LMT	O5'-C1'-O1'-C1
15	BD	103	LMT	C2'-C1'-O1'-C1

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Mol	Chain	Res	Type	Atoms
15	BD	103	LMT	O5'-C1'-O1'-C1
15	BG	1002	LMT	O5'-C1'-O1'-C1
15	BG	1002	LMT	C2-C1-O1'-C1'
15	BH	1003	LMT	O5'-C1'-O1'-C1
15	BI	1002	LMT	C2-C1-O1'-C1'
15	BK	1003	LMT	C2'-C1'-O1'-C1
15	BK	1003	LMT	O5'-C1'-O1'-C1
15	BL	1002	LMT	C2'-C1'-O1'-C1
15	BL	1002	LMT	O5'-C1'-O1'-C1
15	BN	101	LMT	C2-C1-O1'-C1'
15	BP	1004	LMT	C2-C1-O1'-C1'
15	BT	102	LMT	O5'-C1'-O1'-C1
15	BU	1002	LMT	C2'-C1'-O1'-C1
15	BU	1002	LMT	O5'-C1'-O1'-C1
15	BV	1004	LMT	O5'-C1'-O1'-C1
15	L	1003	LMT	C2'-C1'-O1'-C1
15	L	1003	LMT	O5'-C1'-O1'-C1
15	L	1008	LMT	C2-C1-O1'-C1'
15	bb	102	LMT	O5'-C1'-O1'-C1
15	bg	103	LMT	C2'-C1'-O1'-C1
15	bg	103	LMT	O5'-C1'-O1'-C1
15	bm	105	LMT	C2'-C1'-O1'-C1
15	bm	105	LMT	O5'-C1'-O1'-C1
15	bo	105	LMT	O5'-C1'-O1'-C1
16	AS	105	V7N	C25-C26-C27-C28
16	AS	105	V7N	C38-C26-C27-C28
16	BA	101	V7N	C25-C26-C27-C28
16	BA	101	V7N	C38-C26-C27-C28
16	BC	101	V7N	C38-C26-C27-C28
16	BG	1001	V7N	C25-C26-C27-C28
16	BI	1001	V7N	C25-C26-C27-C28
16	BI	1001	V7N	C38-C26-C27-C28
16	BI	1001	V7N	C27-C28-C29-C39
16	BK	1001	V7N	C27-C28-C29-C39
16	BL	1001	V7N	C25-C26-C27-C28
16	BL	1001	V7N	C38-C26-C27-C28
16	BL	1001	V7N	C3-C4-C5-C33
16	BM	1001	V7N	C25-C26-C27-C28
16	BP	1001	V7N	C27-C28-C29-C39
16	BU	1001	V7N	O42-C34-C9-C10
16	BW	1001	V7N	C25-C26-C27-C28
16	BX	1001	V7N	C27-C28-C29-C39

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Mol	Chain	Res	Type	Atoms
16	ba	101	V7N	C1-C2-C3-C4
16	ba	101	V7N	C23-C24-C25-C26
16	ba	101	V7N	C26-C27-C28-C29
16	bb	101	V7N	C25-C26-C27-C28
16	bb	101	V7N	C38-C26-C27-C28
16	bb	101	V7N	C26-C27-C28-C29
16	bb	101	V7N	C3-C4-C5-C33
16	bc	101	V7N	C25-C26-C27-C28
16	bd	101	V7N	C27-C28-C29-C39
16	be	101	V7N	C26-C27-C28-C29
16	be	101	V7N	C27-C28-C29-C39
16	bf	101	V7N	C25-C26-C27-C28
16	bf	101	V7N	C38-C26-C27-C28
16	bf	101	V7N	C3-C4-C5-C33
16	bg	101	V7N	C38-C26-C27-C28
16	bh	102	V7N	C25-C26-C27-C28
16	bh	102	V7N	C38-C26-C27-C28
16	bh	102	V7N	C3-C4-C5-C33
16	bj	101	V7N	C2-C1-O32-C41
16	bm	101	V7N	C30-C1-C2-C3
16	bm	101	V7N	C31-C1-C2-C3
16	bm	101	V7N	O32-C1-C2-C3
16	bm	101	V7N	C25-C26-C27-C28
16	bm	101	V7N	C38-C26-C27-C28
16	bp	101	V7N	C27-C28-C29-C39
20	C1	1001	0V9	C1-O3P-P-O2P
20	C1	1001	0V9	C4-O4P-P-O2P
20	C1	1001	0V9	C4-O4P-P-O3P
20	aj	101	0V9	C1-O3P-P-O1P
20	ba	102	0V9	C2-C1-O3P-P
20	ba	102	0V9	C5-C4-O4P-P
20	ba	102	0V9	C4-O4P-P-O1P
20	bb	103	0V9	C2-C1-O3P-P
20	bc	103	0V9	C2-C1-O3P-P
20	bc	103	0V9	C1-O3P-P-O4P
20	be	102	0V9	C1-O3P-P-O1P
20	bg	102	0V9	C5-C4-O4P-P
20	bg	102	0V9	C1-O3P-P-O1P
20	bg	102	0V9	C1-O3P-P-O2P
20	bh	103	0V9	C2-C1-O3P-P
20	bi	103	0V9	C2-C1-O3P-P
20	bi	103	0V9	C5-C4-O4P-P

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Mol	Chain	Res	Type	Atoms
20	bi	103	0V9	C1-O3P-P-O2P
20	bj	104	0V9	C2-C1-O3P-P
20	bj	104	0V9	C5-C4-O4P-P
20	bj	104	0V9	C1-O3P-P-O2P
20	bk	103	0V9	C1-O3P-P-O2P
20	bk	104	0V9	C5-C4-O4P-P
20	bk	104	0V9	C1-O3P-P-O1P
20	bl	103	0V9	C2-C1-O3P-P
20	bl	103	0V9	C5-C4-O4P-P
20	bl	103	0V9	C1-O3P-P-O2P
20	bm	102	0V9	C2-C1-O3P-P
20	bn	104	0V9	C2-C1-O3P-P
20	bn	104	0V9	C1-O3P-P-O2P
20	bn	104	0V9	C1-O3P-P-O4P
20	bo	104	0V9	C2-C1-O3P-P
20	bo	104	0V9	C5-C4-O4P-P
20	bp	103	0V9	C2-C1-O3P-P
20	bp	103	0V9	C5-C4-O4P-P
21	H1	102	CD4	C28-O5-P1-O7
21	H1	104	CD4	C13-C14-O2-C15
21	H1	104	CD4	C31-O10-P2-O11
21	M	402	CD4	C13-C14-O2-C15
21	M	402	CD4	C29-C30-C31-O10
21	M	402	CD4	O9-C30-C31-O10
21	M	402	CD4	C32-O13-P2-O11
21	M	402	CD4	C32-O13-P2-O12
21	ae	101	CD4	O1-C14-O2-C15
21	ae	101	CD4	C15-C28-O5-P1
21	ae	101	CD4	C29-O8-P1-O5
21	ae	101	CD4	C29-O8-P1-O6
21	af	102	CD4	C15-C28-O5-P1
21	aj	102	CD4	C13-C14-O2-C15
21	aj	102	CD4	C15-C28-O5-P1
21	aj	102	CD4	C29-O8-P1-O7
22	H1	103	PGW	C04-O12-P-O14
23	L	1001	MQ8	C33-C35-C36-C37
27	M	404	CRT	C32-C33-C35-C36
27	M	404	CRT	C35-C36-C37-C38
15	AJ	103	LMT	O5B-C1B-O1B-C4'
15	BK	1003	LMT	O5B-C1B-O1B-C4'
15	AJ	103	LMT	C2B-C1B-O1B-C4'
15	AH	104	LMT	O5B-C1B-O1B-C4'

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Mol	Chain	Res	Type	Atoms
15	BK	1003	LMT	C2B-C1B-O1B-C4'
15	AJ	104	LMT	O5B-C1B-O1B-C4'
15	BL	1002	LMT	O5B-C1B-O1B-C4'
14	AR	102	BCL	O1D-CGD-O2D-CED
14	BI	1003	BCL	O1A-CGA-O2A-C1
15	BT	102	LMT	O5B-C1B-O1B-C4'
21	H1	104	CD4	O1-C14-O2-C15
21	M	402	CD4	O1-C14-O2-C15
21	aj	102	CD4	O1-C14-O2-C15
15	AJ	104	LMT	C2B-C1B-O1B-C4'
14	AK	101	BCL	C3-C5-C6-C7
14	AS	104	BCL	C3-C5-C6-C7
14	AV	103	BCL	C3-C5-C6-C7
14	BN	103	BCL	C3-C5-C6-C7
14	bj	103	BCL	C3-C5-C6-C7
21	ae	101	CD4	C18-C17-O3-C16
15	bb	102	LMT	O5'-C5'-C6'-O6'
21	ae	101	CD4	C13-C14-O2-C15
15	AE	1002	LMT	C3'-C4'-O1B-C1B
14	BC	104	BCL	C2A-CAA-CBA-CGA
14	an	1001	BCL	C2A-CAA-CBA-CGA
15	BM	1003	LMT	O5B-C1B-O1B-C4'
15	BO	1002	LMT	O5B-C1B-O1B-C4'
15	be	104	LMT	C4'-C5'-C6'-O6'
16	AS	105	V7N	C27-C28-C29-C39
16	BL	1001	V7N	C27-C28-C29-C39
16	BO	1001	V7N	C27-C28-C29-C39
16	bb	101	V7N	C27-C28-C29-C39
16	bg	101	V7N	C27-C28-C29-C39
16	bi	101	V7N	C27-C28-C29-C39
16	bo	102	V7N	C27-C28-C29-C39
15	AP	104	LMT	O5B-C1B-O1B-C4'
15	BO	1002	LMT	C2B-C1B-O1B-C4'
15	BA	105	LMT	O5'-C5'-C6'-O6'
21	H1	102	CD4	O9-C30-C31-O10
14	AC	101	BCL	C3-C5-C6-C7
14	AU	102	BCL	C3-C5-C6-C7
15	BX	1003	LMT	O5B-C1B-O1B-C4'
15	BM	1003	LMT	C2B-C1B-O1B-C4'
15	BH	1003	LMT	O5'-C5'-C6'-O6'
15	BS	1006	LMT	O5B-C1B-O1B-C4'
15	AP	104	LMT	C2B-C1B-O1B-C4'

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Mol	Chain	Res	Type	Atoms
15	BF	103	LMT	O5'-C5'-C6'-O6'
28	ai	102	UYH	O6-C5-C6-O5
15	BX	1004	LMT	O5B-C1B-O1B-C4'
15	AI	101	LMT	C2B-C1B-O1B-C4'
15	BR	1003	LMT	C3'-C4'-O1B-C1B
15	BW	1004	LMT	O5'-C5'-C6'-O6'
15	bm	105	LMT	O5'-C5'-C6'-O6'
15	bo	105	LMT	C4'-C5'-C6'-O6'
14	BI	1003	BCL	CBA-CGA-O2A-C1
15	M	403	LMT	O5'-C5'-C6'-O6'
15	bb	102	LMT	C4'-C5'-C6'-O6'
14	BN	103	BCL	O1A-CGA-O2A-C1
15	AF	1002	LMT	O5B-C5B-C6B-O6B
15	be	104	LMT	O5'-C5'-C6'-O6'
15	bo	105	LMT	O5'-C5'-C6'-O6'
15	BS	1006	LMT	C2B-C1B-O1B-C4'
15	AF	1002	LMT	O5'-C5'-C6'-O6'
15	bh	101	LMT	O5'-C5'-C6'-O6'
15	AJ	103	LMT	O5'-C1'-O1'-C1
15	BC	103	LMT	O5'-C1'-O1'-C1
15	BM	1003	LMT	O5'-C1'-O1'-C1
15	BA	105	LMT	C4'-C5'-C6'-O6'
15	BC	106	LMT	C4'-C5'-C6'-O6'
15	be	104	LMT	O5B-C1B-O1B-C4'
20	bb	103	0V9	C11-C10-O2-C2
15	BS	1004	LMT	O5B-C1B-O1B-C4'
21	H1	104	CD4	C42-C43-C44-C45
15	BM	1003	LMT	O5'-C5'-C6'-O6'
15	BQ	1004	LMT	O5'-C5'-C6'-O6'
14	BM	1002	BCL	C3-C5-C6-C7
15	AI	101	LMT	O5B-C1B-O1B-C4'
21	af	102	CD4	C53-C54-C55-C56
14	AA	1001	BCL	C10-C11-C12-C13
15	AG	103	LMT	O5B-C5B-C6B-O6B
15	BD	102	LMT	O5'-C5'-C6'-O6'
15	AJ	103	LMT	C4'-C5'-C6'-O6'
14	AI	102	BCL	C10-C11-C12-C13
21	ae	101	CD4	O9-C30-C31-O10
15	AJ	103	LMT	C2'-C1'-O1'-C1
15	AX	101	LMT	C2'-C1'-O1'-C1
15	BE	102	LMT	C2'-C1'-O1'-C1
15	BG	1002	LMT	C2'-C1'-O1'-C1

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Mol	Chain	Res	Type	Atoms
15	BH	1003	LMT	C2'-C1'-O1'-C1
15	BT	102	LMT	C2'-C1'-O1'-C1
15	bb	102	LMT	C2'-C1'-O1'-C1
15	bn	105	LMT	C2'-C1'-O1'-C1
15	bo	105	LMT	C2'-C1'-O1'-C1
20	bh	103	0V9	O2-C2-C3-O3
21	ae	101	CD4	O4-C17-O3-C16
15	BH	1003	LMT	C4'-C5'-C6'-O6'
15	bh	101	LMT	C4'-C5'-C6'-O6'
14	AE	1003	BCL	C11-C12-C13-C14
14	AN	104	BCL	C6-C7-C8-C9
14	BA	103	BCL	C6-C7-C8-C9
14	BS	1003	BCL	C6-C7-C8-C9
14	BX	1002	BCL	C6-C7-C8-C9
14	ab	102	BCL	C6-C7-C8-C9
14	an	1001	BCL	C11-C10-C8-C9
14	AO	1002	BCL	C10-C11-C12-C13
16	AE	1005	V7N	C38-C26-C27-C28
16	AO	1001	V7N	C3-C4-C5-C33
16	BB	101	V7N	C38-C26-C27-C28
16	BD	101	V7N	C38-C26-C27-C28
16	BG	1001	V7N	C38-C26-C27-C28
16	BH	1001	V7N	C3-C4-C5-C33
16	BI	1001	V7N	C3-C4-C5-C33
16	BJ	1001	V7N	C38-C26-C27-C28
16	BM	1001	V7N	C38-C26-C27-C28
16	BO	1001	V7N	C38-C26-C27-C28
16	BQ	1001	V7N	C38-C26-C27-C28
16	BQ	1001	V7N	C3-C4-C5-C33
16	BR	1001	V7N	C3-C4-C5-C33
16	BS	1001	V7N	C38-C26-C27-C28
16	BW	1001	V7N	C38-C26-C27-C28
16	BX	1001	V7N	C3-C4-C5-C33
16	ba	101	V7N	C38-C26-C27-C28
16	bb	101	V7N	C36-C18-C19-C20
16	bc	101	V7N	C38-C26-C27-C28
16	bd	101	V7N	C38-C26-C27-C28
16	be	101	V7N	C38-C26-C27-C28
16	bj	101	V7N	C38-C26-C27-C28
16	bk	101	V7N	C38-C26-C27-C28
16	bn	102	V7N	C38-C26-C27-C28
27	M	404	CRT	C34-C33-C35-C36

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Mol	Chain	Res	Type	Atoms
16	AE	1005	V7N	C25-C26-C27-C28
16	AO	1001	V7N	C3-C4-C5-C6
16	BB	101	V7N	C25-C26-C27-C28
16	BD	101	V7N	C25-C26-C27-C28
16	BE	101	V7N	C25-C26-C27-C28
16	BH	1001	V7N	C3-C4-C5-C6
16	BJ	1001	V7N	C25-C26-C27-C28
16	BO	1001	V7N	C25-C26-C27-C28
16	BO	1001	V7N	C3-C4-C5-C6
16	BQ	1001	V7N	C25-C26-C27-C28
16	BR	1001	V7N	C3-C4-C5-C6
16	BS	1001	V7N	C25-C26-C27-C28
16	BU	1001	V7N	C25-C26-C27-C28
16	bd	101	V7N	C25-C26-C27-C28
16	bg	101	V7N	C25-C26-C27-C28
16	bj	101	V7N	C25-C26-C27-C28
16	bk	101	V7N	C25-C26-C27-C28
16	bl	102	V7N	C25-C26-C27-C28
16	bn	102	V7N	C25-C26-C27-C28
15	AD	103	LMT	O5'-C5'-C6'-O6'
15	BW	1004	LMT	C4'-C5'-C6'-O6'
15	AQ	103	LMT	O5'-C5'-C6'-O6'
15	bc	104	LMT	O5'-C5'-C6'-O6'
15	bn	101	LMT	O5'-C5'-C6'-O6'
15	AF	1002	LMT	C4B-C5B-C6B-O6B
14	ad	1001	BCL	C10-C11-C12-C13
15	AJ	104	LMT	O5'-C5'-C6'-O6'
15	BK	1002	LMT	O5B-C1B-O1B-C4'
15	BR	1003	LMT	O5B-C1B-O1B-C4'
15	ab	101	LMT	O5'-C5'-C6'-O6'
15	bi	102	LMT	O5'-C5'-C6'-O6'
14	AE	1004	BCL	C15-C16-C17-C18
14	AS	103	BCL	C8-C10-C11-C12
14	ap	1001	BCL	C8-C10-C11-C12
14	bk	102	BCL	C15-C16-C17-C18
20	bc	103	0V9	C10-C11-C12-C13
21	af	102	CD4	C11-C12-C13-C14
15	AC	104	LMT	O5B-C5B-C6B-O6B
15	BV	1003	LMT	O5'-C5'-C6'-O6'
14	BQ	1003	BCL	C5-C6-C7-C8
15	bb	102	LMT	C3'-C4'-O1B-C1B
15	BB	105	LMT	O5B-C1B-O1B-C4'

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Mol	Chain	Res	Type	Atoms
15	BH	1004	LMT	O5'-C5'-C6'-O6'
15	M	403	LMT	O1'-C1-C2-C3
15	be	104	LMT	C3'-C4'-O1B-C1B
14	AC	102	BCL	C3-C5-C6-C7
14	BT	103	BCL	C3-C5-C6-C7
16	BU	1001	V7N	C27-C28-C29-C39
16	ba	101	V7N	C27-C28-C29-C39
16	bf	101	V7N	C27-C28-C29-C39
14	AV	102	BCL	C13-C15-C16-C17
14	an	1001	BCL	C10-C11-C12-C13
15	BQ	1004	LMT	O5'-C1'-O1'-C1
24	ag	1002	V7B	O6-C1-O1-C7
14	AE	1001	BCL	C13-C15-C16-C17
23	ao	101	MQ8	C33-C35-C36-C37
16	BS	1001	V7N	C26-C27-C28-C29
16	bg	101	V7N	C26-C27-C28-C29
15	AU	101	LMT	O5'-C5'-C6'-O6'
15	BK	1004	LMT	O5'-C5'-C6'-O6'
15	bm	103	LMT	O5B-C5B-C6B-O6B
21	aj	102	CD4	O9-C30-C31-O10
14	ae	102	BCL	C5-C6-C7-C8
21	H1	104	CD4	C46-C47-C48-C49
15	BH	1002	LMT	O5B-C1B-O1B-C4'
14	AI	103	BCL	C13-C15-C16-C17
14	AU	102	BCL	C10-C11-C12-C13
14	BF	102	BCL	C10-C11-C12-C13
14	BJ	1002	BCL	C10-C11-C12-C13
14	bb	104	BCL	C15-C16-C17-C18
14	bd	102	BCL	C8-C10-C11-C12
15	BQ	1002	LMT	O1'-C1-C2-C3
15	BC	106	LMT	O5'-C5'-C6'-O6'
14	AR	101	BCL	C5-C6-C7-C8
14	AS	103	BCL	C10-C11-C12-C13
14	ac	1001	BCL	C10-C11-C12-C13
20	bi	103	0V9	C1-O3P-P-O4P
20	bj	104	0V9	C1-O3P-P-O4P
20	bk	103	0V9	C1-O3P-P-O4P
20	bl	103	0V9	C1-O3P-P-O4P
20	bp	103	0V9	C1-O3P-P-O4P
21	H1	104	CD4	C31-O10-P2-O13
21	M	402	CD4	C32-O13-P2-O10
15	AL	102	LMT	O5'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
15	BU	1002	LMT	O5'-C5'-C6'-O6'
15	AD	101	LMT	O5B-C1B-O1B-C4'
15	BC	102	LMT	O5B-C1B-O1B-C4'
15	M	403	LMT	C4'-C5'-C6'-O6'
15	BR	1005	LMT	C3'-C4'-O1B-C1B
20	be	103	0V9	C12-C13-C14-C15
14	BN	103	BCL	CBA-CGA-O2A-C1
14	AS	102	BCL	C5-C6-C7-C8
14	ap	1001	BCL	C13-C15-C16-C17
21	aj	102	CD4	C29-C30-C31-O10
20	bb	103	0V9	O4-C10-O2-C2
14	BG	1004	BCL	C4-C3-C5-C6
14	BO	1004	BCL	C4-C3-C5-C6
14	an	1001	BCL	C13-C15-C16-C17
15	BO	1003	LMT	O5'-C5'-C6'-O6'
14	AR	101	BCL	C3-C5-C6-C7
14	AJ	102	BCL	C13-C15-C16-C17
15	be	104	LMT	C5'-C4'-O1B-C1B
15	BL	1002	LMT	C5'-C4'-O1B-C1B
15	bl	101	LMT	C5'-C4'-O1B-C1B
16	bj	101	V7N	C27-C28-C29-C39
16	bn	102	V7N	C27-C28-C29-C39
15	BA	104	LMT	O5B-C1B-O1B-C4'
20	bc	103	0V9	C11-C10-O2-C2
14	AI	102	BCL	C3-C5-C6-C7
15	bb	102	LMT	C5'-C4'-O1B-C1B
14	bk	102	BCL	C16-C17-C18-C19
15	BB	104	LMT	O1'-C1-C2-C3
21	H1	102	CD4	C47-C48-C49-C50
15	BF	103	LMT	C4'-C5'-C6'-O6'
15	BU	1003	LMT	C6-C7-C8-C9
20	aj	101	0V9	C2-C1-O3P-P
20	be	103	0V9	C2-C1-O3P-P
20	bg	102	0V9	C2-C1-O3P-P
15	BG	1005	LMT	O5'-C5'-C6'-O6'
15	BK	1003	LMT	O5'-C5'-C6'-O6'
15	bn	105	LMT	O5'-C5'-C6'-O6'
15	bd	103	LMT	C6-C7-C8-C9
14	bm	104	BCL	C8-C10-C11-C12
14	bp	102	BCL	C8-C10-C11-C12
15	AP	101	LMT	C5-C6-C7-C8
15	L	1004	LMT	O1'-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
15	BM	1003	LMT	C2'-C1'-O1'-C1
15	BQ	1004	LMT	C2'-C1'-O1'-C1
15	BX	1004	LMT	C2'-C1'-O1'-C1
24	ag	1002	V7B	C2-C1-O1-C7
21	aj	102	CD4	O16-C33-C34-O14
15	bo	105	LMT	C6-C7-C8-C9
14	AG	101	BCL	C13-C15-C16-C17
14	ae	102	BCL	C8-C10-C11-C12
14	AM	102	BCL	C16-C17-C18-C19
14	AV	103	BCL	C16-C17-C18-C20
14	bk	102	BCL	C16-C17-C18-C20
15	AJ	103	LMT	O5B-C5B-C6B-O6B
14	AB	1002	BCL	C4-C3-C5-C6
14	ai	101	BCL	C4-C3-C5-C6
14	bi	104	BCL	C4-C3-C5-C6
16	AS	105	V7N	C37-C22-C23-C24
23	ao	101	MQ8	C45-C43-C44-C46
15	BR	1005	LMT	C5'-C4'-O1B-C1B
15	bf	102	LMT	C5-C6-C7-C8
20	bb	103	0V9	C32-C33-C34-C35
28	ai	102	UYH	C4-C5-C6-O5
14	AG	101	BCL	C2-C3-C5-C6
14	AL	101	BCL	C2-C3-C5-C6
14	BO	1004	BCL	C2-C3-C5-C6
16	AS	105	V7N	C21-C22-C23-C24
14	BD	105	BCL	C11-C10-C8-C9
14	BI	1003	BCL	C11-C10-C8-C9
14	ai	101	BCL	C11-C10-C8-C9
14	ai	101	BCL	C14-C13-C15-C16
14	ao	102	BCL	C11-C12-C13-C14
14	bg	105	BCL	C6-C7-C8-C9
14	bl	104	BCL	C6-C7-C8-C9
15	AG	103	LMT	C6-C7-C8-C9
15	BS	1004	LMT	C3-C4-C5-C6
14	AM	101	BCL	C15-C16-C17-C18
14	BL	1003	BCL	C2A-CAA-CBA-CGA
14	BU	1004	BCL	C2A-CAA-CBA-CGA
16	AO	1001	V7N	C38-C26-C27-C28
16	BE	101	V7N	C38-C26-C27-C28
16	BH	1001	V7N	C38-C26-C27-C28
16	BO	1001	V7N	C3-C4-C5-C33
16	BU	1001	V7N	C38-C26-C27-C28

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Mol	Chain	Res	Type	Atoms
16	BV	1001	V7N	C38-C26-C27-C28
16	BX	1001	V7N	C38-C26-C27-C28
16	bi	101	V7N	C38-C26-C27-C28
16	bl	102	V7N	C38-C26-C27-C28
16	bp	101	V7N	C38-C26-C27-C28
15	AA	1003	LMT	C6-C7-C8-C9
15	BT	101	LMT	O1'-C1-C2-C3
20	bp	103	0V9	C34-C35-C36-C37
16	AO	1001	V7N	C25-C26-C27-C28
16	BC	101	V7N	C25-C26-C27-C28
16	BH	1001	V7N	C25-C26-C27-C28
16	BV	1001	V7N	C25-C26-C27-C28
16	BX	1001	V7N	C25-C26-C27-C28
16	ba	101	V7N	C25-C26-C27-C28
16	be	101	V7N	C25-C26-C27-C28
16	bf	101	V7N	C3-C4-C5-C6
16	bi	101	V7N	C25-C26-C27-C28
16	bm	101	V7N	C3-C4-C5-C6
16	bp	101	V7N	C25-C26-C27-C28
20	C1	1001	0V9	C10-C11-C12-C13
21	aj	102	CD4	C46-C47-C48-C49
15	L	1011	LMT	C3-C4-C5-C6
14	AM	102	BCL	C16-C17-C18-C20
15	BX	1004	LMT	O5'-C1'-O1'-C1
14	AN	104	BCL	C10-C11-C12-C13
14	M	408	BCL	C5-C6-C7-C8
15	AD	101	LMT	C4-C5-C6-C7
15	BT	102	LMT	O1'-C1-C2-C3
20	aj	101	0V9	O4P-C4-C5-N
20	H1	101	0V9	C10-C11-C12-C13
21	ae	101	CD4	C35-C36-C37-C38
14	AK	101	BCL	C8-C10-C11-C12
14	af	101	BCL	C13-C15-C16-C17
15	L	1003	LMT	C7-C8-C9-C10
15	bh	104	LMT	O5'-C5'-C6'-O6'
21	aj	102	CD4	C51-C52-C53-C54
15	BT	104	LMT	O5B-C1B-O1B-C4'
15	bl	101	LMT	O5B-C1B-O1B-C4'
14	BM	1002	BCL	C3A-C2A-CAA-CBA
14	BQ	1003	BCL	C3A-C2A-CAA-CBA
14	BR	1004	BCL	C3A-C2A-CAA-CBA
14	BU	1004	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
14	bi	104	BCL	C3A-C2A-CAA-CBA
14	bk	102	BCL	C3A-C2A-CAA-CBA
14	bn	103	BCL	C3A-C2A-CAA-CBA
14	BJ	1002	BCL	C15-C16-C17-C18
14	bc	102	BCL	C8-C10-C11-C12
14	bc	102	BCL	C15-C16-C17-C18
15	AG	103	LMT	C2-C1-O1'-C1'
15	AH	102	LMT	C2-C1-O1'-C1'
15	AH	104	LMT	C2-C1-O1'-C1'
15	AX	101	LMT	C2-C1-O1'-C1'
15	BD	102	LMT	C2-C1-O1'-C1'
15	BK	1004	LMT	C2-C1-O1'-C1'
15	BQ	1002	LMT	C2-C1-O1'-C1'
15	BX	1004	LMT	C2-C1-O1'-C1'
15	L	1011	LMT	C2-C1-O1'-C1'
15	bj	102	LMT	C5-C6-C7-C8
14	AV	103	BCL	C16-C17-C18-C19
15	AX	101	LMT	O5'-C5'-C6'-O6'
15	BN	102	LMT	O5'-C5'-C6'-O6'
21	M	402	CD4	C32-C33-C34-O14
21	af	102	CD4	C24-C25-C26-C27
14	BC	104	BCL	O2A-C1-C2-C3
21	af	102	CD4	C46-C47-C48-C49
15	bm	103	LMT	O1'-C1-C2-C3
14	AC	103	BCL	C4-C3-C5-C6
14	AL	101	BCL	C4-C3-C5-C6
14	AU	103	BCL	C4-C3-C5-C6
14	ab	102	BCL	C4-C3-C5-C6
14	bh	105	BCL	C4-C3-C5-C6
23	L	1001	MQ8	C45-C43-C44-C46
14	AB	1002	BCL	C2-C3-C5-C6
14	AV	103	BCL	C2-C3-C5-C6
14	ab	102	BCL	C2-C3-C5-C6
14	ae	102	BCL	C2-C3-C5-C6
14	be	105	BCL	C2-C3-C5-C6
14	bh	105	BCL	C2-C3-C5-C6
23	L	1001	MQ8	C42-C43-C44-C46
14	AM	101	BCL	C10-C11-C12-C13
20	bm	102	0V9	C13-C14-C15-C16
21	af	102	CD4	C43-C44-C45-C63
14	aa	1001	BCL	C16-C17-C18-C20
14	BI	1003	BCL	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
14	bc	102	BCL	C10-C11-C12-C13
14	bl	104	BCL	C3-C5-C6-C7
15	L	1008	LMT	C4B-C5B-C6B-O6B
15	AX	101	LMT	C5-C6-C7-C8
20	bc	103	0V9	O4-C10-O2-C2
14	AJ	102	BCL	C2-C1-O2A-CGA
14	AK	101	BCL	C2-C1-O2A-CGA
14	BE	104	BCL	C2-C1-O2A-CGA
14	BF	102	BCL	C2-C1-O2A-CGA
14	ai	101	BCL	C2-C1-O2A-CGA
15	AF	1002	LMT	C4'-C5'-C6'-O6'
20	bl	103	0V9	C13-C14-C15-C16
15	bj	102	LMT	O5'-C5'-C6'-O6'
14	AN	101	BCL	C10-C11-C12-C13
21	H1	102	CD4	C33-C32-O13-P2
15	AH	104	LMT	C2-C3-C4-C5
21	ae	101	CD4	C22-C23-C24-C25
15	bn	101	LMT	C2B-C1B-O1B-C4'
15	bn	101	LMT	O5B-C1B-O1B-C4'
15	BC	105	LMT	O5B-C5B-C6B-O6B
15	BJ	1003	LMT	O5'-C5'-C6'-O6'
15	L	1007	LMT	O5'-C5'-C6'-O6'
20	bm	102	0V9	C31-C32-C33-C34
15	AG	103	LMT	O1'-C1-C2-C3
15	AA	1003	LMT	O5'-C5'-C6'-O6'
15	BM	1004	LMT	O5B-C5B-C6B-O6B
14	ag	1001	BCL	C5-C6-C7-C8
14	AG	101	BCL	C4-C3-C5-C6
14	AN	104	BCL	C4-C3-C5-C6
14	AR	102	BCL	C4-C3-C5-C6
14	ag	1001	BCL	C4-C3-C5-C6
23	L	1001	MQ8	C19-C18-C20-C21
23	M	407	MQ8	C14-C13-C15-C16
23	ao	101	MQ8	C34-C33-C35-C36
14	AA	1002	BCL	C2-C3-C5-C6
14	AC	102	BCL	C11-C10-C8-C7
14	AE	1003	BCL	C2-C3-C5-C6
14	AE	1003	BCL	C11-C12-C13-C15
14	AL	103	BCL	C11-C10-C8-C7
14	AN	104	BCL	C2-C3-C5-C6
14	AR	102	BCL	C2-C3-C5-C6
14	AU	103	BCL	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
14	AX	103	BCL	C11-C10-C8-C7
14	BA	103	BCL	C6-C7-C8-C10
14	BD	105	BCL	C11-C10-C8-C7
14	BG	1004	BCL	C2-C3-C5-C6
14	BI	1003	BCL	C11-C10-C8-C7
14	BM	1002	BCL	C11-C10-C8-C7
14	BX	1002	BCL	C6-C7-C8-C10
14	ab	102	BCL	C6-C7-C8-C10
14	ae	102	BCL	C11-C10-C8-C7
14	ag	1001	BCL	C2-C3-C5-C6
14	ai	101	BCL	C2-C3-C5-C6
14	ai	101	BCL	C11-C10-C8-C7
14	ai	101	BCL	C12-C13-C15-C16
14	al	1001	BCL	C6-C7-C8-C10
14	ao	102	BCL	C11-C12-C13-C15
14	bg	105	BCL	C6-C7-C8-C10
14	bi	104	BCL	C2-C3-C5-C6
14	bl	104	BCL	C6-C7-C8-C10
14	bl	104	BCL	C12-C13-C15-C16
14	bo	103	BCL	C12-C13-C15-C16
23	L	1001	MQ8	C17-C18-C20-C21
23	M	407	MQ8	C12-C13-C15-C16
14	BA	103	BCL	C3-C5-C6-C7
22	H1	103	PGW	C16-C17-C18-C28
20	bj	104	0V9	O4-C10-O2-C2
20	bg	104	0V9	C10-C11-C12-C13
14	AB	1002	BCL	C2A-CAA-CBA-CGA
14	AC	102	BCL	C10-C11-C12-C13
14	BQ	1003	BCL	C15-C16-C17-C18
20	bo	104	0V9	C11-C12-C13-C14
24	ag	1002	V7B	C12-C13-C14-C15
24	L	1006	V7B	C16-C17-C18-C19
15	AU	101	LMT	C2B-C1B-O1B-C4'
20	be	103	0V9	C2-C3-O3-C30
15	BU	1002	LMT	O1'-C1-C2-C3
15	AU	101	LMT	O5'-C1'-O1'-C1
23	L	1001	MQ8	C28-C30-C31-C32
15	AX	101	LMT	O1'-C1-C2-C3
21	M	402	CD4	C51-C52-C53-C54
24	L	1006	V7B	C17-C18-C19-C20
20	bj	104	0V9	C11-C10-O2-C2
20	bl	103	0V9	C11-C10-O2-C2

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Mol	Chain	Res	Type	Atoms
21	H1	102	CD4	C13-C14-O2-C15
21	aj	102	CD4	O2-C15-C28-O5
16	BV	1001	V7N	C26-C27-C28-C29
15	BA	102	LMT	C3-C4-C5-C6
14	be	105	BCL	C5-C6-C7-C8
20	bl	103	0V9	O4-C10-O2-C2
14	BP	1005	BCL	C3-C5-C6-C7
14	ak	1001	BCL	C3-C5-C6-C7
15	AE	1002	LMT	C2'-C1'-O1'-C1
15	AT	102	LMT	C2'-C1'-O1'-C1
15	BL	1004	LMT	C2'-C1'-O1'-C1
15	bl	101	LMT	C2'-C1'-O1'-C1
20	be	102	0V9	O2-C2-C3-O3
20	bp	103	0V9	O2-C2-C3-O3
21	M	402	CD4	O16-C33-C34-O14
15	BR	1003	LMT	O5'-C5'-C6'-O6'
14	BL	1003	BCL	C13-C15-C16-C17
14	BO	1004	BCL	C5-C6-C7-C8
14	AE	1003	BCL	C4-C3-C5-C6
14	AV	103	BCL	C4-C3-C5-C6
14	ad	1001	BCL	C4-C3-C5-C6
14	ae	102	BCL	C4-C3-C5-C6
14	be	105	BCL	C4-C3-C5-C6
14	bn	103	BCL	C4-C3-C5-C6
14	ad	1001	BCL	C2-C3-C5-C6
14	bn	103	BCL	C2-C3-C5-C6
23	ao	101	MQ8	C32-C33-C35-C36
23	ao	101	MQ8	C42-C43-C44-C46
14	AC	102	BCL	C11-C10-C8-C9
14	AI	102	BCL	C6-C7-C8-C9
14	AL	103	BCL	C11-C10-C8-C9
14	AQ	101	BCL	C14-C13-C15-C16
14	AX	103	BCL	C11-C10-C8-C9
14	BM	1002	BCL	C11-C10-C8-C9
14	ae	102	BCL	C11-C10-C8-C9
14	al	1001	BCL	C6-C7-C8-C9
14	bn	103	BCL	C11-C10-C8-C9
14	bo	103	BCL	C14-C13-C15-C16
15	AI	101	LMT	O5B-C5B-C6B-O6B
15	BB	104	LMT	C5-C6-C7-C8
15	AU	101	LMT	O5B-C1B-O1B-C4'
15	BC	102	LMT	O5'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
15	BJ	1004	LMT	O5B-C5B-C6B-O6B
15	BQ	1002	LMT	O5'-C5'-C6'-O6'
16	bm	101	V7N	C3-C4-C5-C33
14	bm	104	BCL	C13-C15-C16-C17
16	bb	101	V7N	C3-C4-C5-C6
16	bh	102	V7N	C3-C4-C5-C6
14	AC	103	BCL	C1A-C2A-CAA-CBA
14	AE	1004	BCL	C1A-C2A-CAA-CBA
14	AG	101	BCL	C1A-C2A-CAA-CBA
14	AS	102	BCL	C1A-C2A-CAA-CBA
14	BM	1002	BCL	C1A-C2A-CAA-CBA
14	bc	102	BCL	C1A-C2A-CAA-CBA
14	bk	102	BCL	C1A-C2A-CAA-CBA
14	bn	103	BCL	C1A-C2A-CAA-CBA
14	BB	103	BCL	C16-C17-C18-C19
14	aa	1001	BCL	C16-C17-C18-C19
21	H1	102	CD4	O1-C14-O2-C15
21	af	102	CD4	C13-C14-O2-C15
20	C1	1001	0V9	C1-O3P-P-O4P
20	bc	103	0V9	C4-O4P-P-O3P
20	bg	102	0V9	C1-O3P-P-O4P
20	bi	103	0V9	C4-O4P-P-O3P
20	bk	104	0V9	C4-O4P-P-O3P
21	aj	102	CD4	C29-O8-P1-O5
22	H1	103	PGW	C04-O12-P-O11
21	af	102	CD4	C48-C49-C50-C51
21	aj	102	CD4	C26-C27-C60-C61
15	BW	1002	LMT	O5'-C5'-C6'-O6'
15	bm	103	LMT	O5'-C5'-C6'-O6'
20	bg	104	0V9	C2-C1-O3P-P
21	af	102	CD4	C30-C29-O8-P1
21	aj	102	CD4	C30-C31-O10-P2
21	H1	102	CD4	C54-C55-C56-C57
21	H1	104	CD4	C11-C10-C9-C8
23	ao	101	MQ8	C3-C11-C12-C13
15	BG	1005	LMT	C1-C2-C3-C4
14	BH	1005	BCL	C10-C11-C12-C13
25	M	406	BPH	C13-C15-C16-C17
15	bd	103	LMT	O5'-C5'-C6'-O6'
20	be	102	0V9	O3P-C1-C2-C3
20	bk	103	0V9	O3P-C1-C2-C3
15	AH	104	LMT	C5'-C4'-O1B-C1B

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Mol	Chain	Res	Type	Atoms
15	AJ	104	LMT	C7-C8-C9-C10
15	BK	1003	LMT	C3'-C4'-O1B-C1B
20	be	102	0V9	C10-C11-C12-C13
15	BA	104	LMT	C5'-C4'-O1B-C1B
15	BD	103	LMT	C5'-C4'-O1B-C1B
15	BR	1003	LMT	C5'-C4'-O1B-C1B
15	BN	104	LMT	O5'-C5'-C6'-O6'
14	bb	104	BCL	C10-C11-C12-C13
15	bf	102	LMT	C2-C3-C4-C5
14	AA	1002	BCL	C3-C5-C6-C7
15	AD	103	LMT	C4'-C5'-C6'-O6'
24	L	1006	V7B	O52-C47-C48-O53
14	al	1001	BCL	C4-C3-C5-C6
21	M	402	CD4	C20-C21-C22-C23
14	AH	101	BCL	C8-C10-C11-C12
15	BP	1003	LMT	C11-C10-C9-C8
20	H1	101	0V9	C35-C36-C37-C38
14	BB	103	BCL	C16-C17-C18-C20
15	BI	1005	LMT	O5'-C5'-C6'-O6'
15	BS	1005	LMT	O5'-C5'-C6'-O6'
15	BW	1002	LMT	C4-C5-C6-C7
15	bd	103	LMT	C3-C4-C5-C6
15	bl	105	LMT	C3-C4-C5-C6
20	bo	104	0V9	C1-C2-C3-O3
24	L	1006	V7B	C33-C34-C35-C36
15	BC	103	LMT	O5'-C5'-C6'-O6'
14	AX	102	BCL	C13-C15-C16-C17
15	AG	103	LMT	C4B-C5B-C6B-O6B
23	ao	101	MQ8	C12-C11-C3-C2
24	ag	1002	V7B	C8-C7-O1-C1
22	H1	103	PGW	C02-C01-O03-C19
15	BL	1004	LMT	O5B-C5B-C6B-O6B
15	BT	104	LMT	O5'-C5'-C6'-O6'
15	bn	101	LMT	C1-C2-C3-C4
15	BG	1003	LMT	O5'-C1'-O1'-C1
16	bi	101	V7N	C2-C1-O32-C41
15	AG	103	LMT	O5'-C5'-C6'-O6'
15	AS	101	LMT	C4-C5-C6-C7
15	BL	1002	LMT	C3'-C4'-O1B-C1B
20	bk	103	0V9	C39-C40-C41-C42
21	ae	101	CD4	C4-C5-C6-C7
14	ah	1001	BCL	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
15	BD	102	LMT	O1'-C1-C2-C3
15	bl	105	LMT	C4-C5-C6-C7
15	BK	1004	LMT	O1'-C1-C2-C3
14	bg	105	BCL	C8-C10-C11-C12
15	AD	103	LMT	O5B-C5B-C6B-O6B
15	AJ	103	LMT	O5'-C5'-C6'-O6'
15	AN	103	LMT	O5'-C5'-C6'-O6'
14	bi	104	BCL	C3-C5-C6-C7
14	AA	1002	BCL	C4-C3-C5-C6
14	bf	103	BCL	C4-C3-C5-C6
15	BV	1006	LMT	O5'-C5'-C6'-O6'
14	BM	1002	BCL	C13-C15-C16-C17
23	ao	101	MQ8	C12-C11-C3-C4
15	BD	102	LMT	C4'-C5'-C6'-O6'
15	bl	101	LMT	C3'-C4'-O1B-C1B
21	aj	102	CD4	C16-C15-O2-C14
15	AD	101	LMT	O5'-C5'-C6'-O6'
15	AH	104	LMT	O5'-C5'-C6'-O6'
15	AS	101	LMT	O5B-C5B-C6B-O6B
15	AS	101	LMT	O5'-C5'-C6'-O6'
15	BO	1002	LMT	O5B-C5B-C6B-O6B
14	BS	1003	BCL	C2A-CAA-CBA-CGA
14	BW	1003	BCL	C2-C1-O2A-CGA
15	AA	1003	LMT	C7-C8-C9-C10
21	aj	102	CD4	C24-C25-C26-C27
15	AI	101	LMT	O5'-C5'-C6'-O6'
15	BX	1003	LMT	O5'-C5'-C6'-O6'
20	bk	104	0V9	C11-C12-C13-C14
20	bp	103	0V9	C37-C38-C39-C40
21	ae	101	CD4	C43-C44-C45-C63
15	bn	105	LMT	C3-C4-C5-C6
20	aj	101	0V9	O3P-C1-C2-O2
24	L	1006	V7B	C13-C14-C15-C16
14	am	1001	BCL	C15-C16-C17-C18
14	an	1001	BCL	C8-C10-C11-C12
16	bi	101	V7N	C30-C1-O32-C41
16	bi	101	V7N	C31-C1-O32-C41
16	bj	101	V7N	C30-C1-O32-C41
15	BJ	1003	LMT	C7-C8-C9-C10
15	L	1011	LMT	C6-C7-C8-C9
15	bj	102	LMT	C9-C10-C11-C12
20	ba	102	0V9	O2-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
20	bg	102	0V9	O2-C2-C3-O3
20	bo	104	0V9	O2-C2-C3-O3
15	bg	103	LMT	C9-C10-C11-C12
20	bb	103	0V9	C35-C36-C37-C38
14	AI	102	BCL	C8-C10-C11-C12
15	bb	102	LMT	C4-C5-C6-C7
14	AI	103	BCL	C4-C3-C5-C6
14	BN	103	BCL	C4-C3-C5-C6
14	BQ	1003	BCL	C4-C3-C5-C6
15	BI	1006	LMT	O1'-C1-C2-C3
15	BN	104	LMT	C4-C5-C6-C7
14	AV	101	BCL	C10-C11-C12-C13
14	AA	1001	BCL	C12-C13-C15-C16
14	AG	101	BCL	C6-C7-C8-C10
14	AI	102	BCL	C6-C7-C8-C10
14	AI	103	BCL	C2-C3-C5-C6
14	AQ	101	BCL	C12-C13-C15-C16
14	ae	102	BCL	C11-C12-C13-C15
14	ak	1001	BCL	C12-C13-C15-C16
14	bn	103	BCL	C11-C10-C8-C7
14	AA	1001	BCL	C11-C10-C8-C9
14	AF	1001	BCL	C11-C12-C13-C14
14	AH	103	BCL	C11-C12-C13-C14
14	AK	101	BCL	C6-C7-C8-C9
14	BI	1003	BCL	C11-C12-C13-C14
14	aj	103	BCL	C14-C13-C15-C16
14	bj	103	BCL	C6-C7-C8-C9
14	bk	102	BCL	C11-C10-C8-C9
14	bl	104	BCL	C11-C10-C8-C9
14	bl	104	BCL	C14-C13-C15-C16
14	bp	102	BCL	C14-C13-C15-C16
15	BK	1005	LMT	O1'-C1-C2-C3
20	bm	102	0V9	C12-C13-C14-C15
16	bp	101	V7N	O32-C1-C2-C3
16	BL	1001	V7N	C3-C4-C5-C6
14	AP	103	BCL	C3-C5-C6-C7
14	ab	102	BCL	C3-C5-C6-C7
14	BJ	1002	BCL	C8-C10-C11-C12
15	BS	1004	LMT	C2-C3-C4-C5
14	AL	101	BCL	CBA-CGA-O2A-C1
15	BA	104	LMT	O5B-C5B-C6B-O6B
15	BK	1003	LMT	C5'-C4'-O1B-C1B

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Mol	Chain	Res	Type	Atoms
15	BG	1002	LMT	C3-C4-C5-C6
14	AX	103	BCL	C13-C15-C16-C17
14	BM	1002	BCL	C5-C6-C7-C8
14	L	1002	BCL	C15-C16-C17-C18
20	aj	101	0V9	O3P-C1-C2-C3
20	ba	102	0V9	O3P-C1-C2-C3
20	bb	103	0V9	O3P-C1-C2-C3
20	bg	102	0V9	O3P-C1-C2-C3
20	bl	103	0V9	O3P-C1-C2-C3
20	bp	103	0V9	O3P-C1-C2-C3
21	H1	102	CD4	O13-C32-C33-C34
23	ao	101	MQ8	C28-C30-C31-C32
20	bi	103	0V9	C14-C15-C16-C17
15	BX	1003	LMT	O5B-C5B-C6B-O6B
20	bo	104	0V9	O4P-C4-C5-N
14	AF	1001	BCL	C10-C11-C12-C13
15	BN	104	LMT	C7-C8-C9-C10
15	BA	105	LMT	O5B-C1B-O1B-C4'
15	BI	1004	LMT	O5B-C1B-O1B-C4'
14	AH	101	BCL	C4-C3-C5-C6
14	bf	103	BCL	C2-C3-C5-C6
14	BW	1003	BCL	C5-C6-C7-C8
21	H1	104	CD4	C49-C50-C51-C52
14	BO	1004	BCL	C2A-CAA-CBA-CGA
14	bp	102	BCL	C2A-CAA-CBA-CGA
20	be	102	0V9	C2-C1-O3P-P
20	bk	104	0V9	C2-C1-O3P-P
15	BP	1002	LMT	O5B-C1B-O1B-C4'
14	AE	1003	BCL	C3A-C2A-CAA-CBA
14	AL	101	BCL	C3A-C2A-CAA-CBA
14	BK	1006	BCL	C3A-C2A-CAA-CBA
14	bp	102	BCL	C3A-C2A-CAA-CBA
15	AS	101	LMT	C2-C3-C4-C5
15	BL	1004	LMT	C4-C5-C6-C7
15	AC	104	LMT	C2-C1-O1'-C1'
15	AP	104	LMT	C2-C1-O1'-C1'
15	AQ	103	LMT	C2-C1-O1'-C1'
15	AT	102	LMT	C2-C1-O1'-C1'
15	BB	102	LMT	C2-C1-O1'-C1'
15	BB	104	LMT	C2-C1-O1'-C1'
15	BC	105	LMT	C2-C1-O1'-C1'
15	BD	103	LMT	C2-C1-O1'-C1'

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Mol	Chain	Res	Type	Atoms
15	BE	103	LMT	C2-C1-O1'-C1'
15	BF	103	LMT	C2-C1-O1'-C1'
15	BH	1002	LMT	C2-C1-O1'-C1'
15	BH	1003	LMT	C2-C1-O1'-C1'
15	BI	1006	LMT	C2-C1-O1'-C1'
15	BK	1005	LMT	C2-C1-O1'-C1'
15	BN	102	LMT	C2-C1-O1'-C1'
15	BQ	1004	LMT	C2-C1-O1'-C1'
15	BR	1003	LMT	C2-C1-O1'-C1'
15	BT	101	LMT	C2-C1-O1'-C1'
15	BT	104	LMT	C2-C1-O1'-C1'
15	BU	1002	LMT	C2-C1-O1'-C1'
15	L	1003	LMT	C2-C1-O1'-C1'
15	L	1004	LMT	C2-C1-O1'-C1'
15	M	403	LMT	C2-C1-O1'-C1'
15	bc	104	LMT	C2-C1-O1'-C1'
15	bm	103	LMT	C2-C1-O1'-C1'
15	AA	1003	LMT	C9-C10-C11-C12
15	AG	103	LMT	C5'-C4'-O1B-C1B
14	BN	103	BCL	C5-C6-C7-C8
20	be	103	0V9	C1-C2-C3-O3
20	bg	102	0V9	C1-C2-C3-O3
20	bh	103	0V9	C1-C2-C3-O3
21	H1	104	CD4	C28-C15-C16-O3
21	M	402	CD4	C28-C15-C16-O3
21	aj	102	CD4	C32-C33-C34-O14
15	BC	105	LMT	O1'-C1-C2-C3
21	aj	102	CD4	C41-C42-C43-C44
14	AR	102	BCL	O2A-C1-C2-C3
14	BH	1005	BCL	O2A-C1-C2-C3
14	bi	104	BCL	O2A-C1-C2-C3
15	BE	103	LMT	O5'-C5'-C6'-O6'
14	BQ	1003	BCL	C3-C5-C6-C7
14	BN	103	BCL	C2-C3-C5-C6
14	BQ	1003	BCL	C2-C3-C5-C6
21	ae	101	CD4	C7-C8-C9-C10
15	BI	1006	LMT	O5'-C5'-C6'-O6'
15	BG	1003	LMT	O1'-C1-C2-C3
14	BV	1005	BCL	C10-C11-C12-C13
21	H1	102	CD4	C28-O5-P1-O8
20	aj	101	0V9	C10-C11-C12-C13
14	BK	1006	BCL	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
20	bb	103	0V9	O3P-C1-C2-O2
21	H1	102	CD4	O13-C32-C33-O16
21	M	402	CD4	O2-C15-C28-O5
15	AE	1002	LMT	C5'-C4'-O1B-C1B
21	H1	102	CD4	C6-C7-C8-C9
14	AL	101	BCL	O1A-CGA-O2A-C1
15	AD	101	LMT	C1-C2-C3-C4
15	bf	102	LMT	O1'-C1-C2-C3
16	BU	1001	V7N	O42-C34-C9-C8
21	ae	101	CD4	C5-C6-C7-C8
20	aj	101	0V9	O2-C2-C3-O3
20	bl	103	0V9	O2-C2-C3-O3
22	H1	103	PGW	C07-C06-C10-C9
15	AQ	103	LMT	C4-C5-C6-C7
21	ae	101	CD4	C42-C43-C44-C45
16	BU	1001	V7N	C5-C6-C7-C8
15	BE	102	LMT	O5'-C1'-O1'-C1
14	bm	104	BCL	C15-C16-C17-C18
16	bb	101	V7N	C22-C23-C24-C25
21	H1	102	CD4	C29-C30-C31-O10
21	ae	101	CD4	C29-C30-C31-O10
23	ao	101	MQ8	C43-C44-C46-C47
15	AC	104	LMT	C3-C4-C5-C6
15	BE	102	LMT	C5-C6-C7-C8
14	AU	103	BCL	C5-C6-C7-C8
14	AA	1001	BCL	C14-C13-C15-C16
14	AE	1004	BCL	C6-C7-C8-C9
14	AM	102	BCL	C14-C13-C15-C16
14	ak	1001	BCL	C14-C13-C15-C16
14	bj	103	BCL	C11-C12-C13-C14
15	AX	101	LMT	O5B-C1B-O1B-C4'
15	BR	1005	LMT	O5'-C5'-C6'-O6'
15	BT	101	LMT	C4-C5-C6-C7
14	AG	102	BCL	C13-C15-C16-C17
14	AH	103	BCL	C15-C16-C17-C18
14	aa	1001	BCL	C10-C11-C12-C13
14	AW	101	BCL	C8-C10-C11-C12
15	BV	1004	LMT	O1'-C1-C2-C3
15	BR	1003	LMT	C5-C6-C7-C8
16	BI	1001	V7N	C3-C4-C5-C6
16	BQ	1001	V7N	C3-C4-C5-C6
16	BX	1001	V7N	C3-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
14	bk	102	BCL	C10-C11-C12-C13
15	AF	1002	LMT	C7-C8-C9-C10
28	ai	102	UYH	C15-C16-C17-C18
15	bm	105	LMT	C4'-C5'-C6'-O6'
15	BD	104	LMT	C4-C5-C6-C7
20	H1	101	0V9	O3P-C1-C2-C3
20	bn	104	0V9	O3P-C1-C2-C3
21	H1	102	CD4	C16-C15-C28-O5
21	af	102	CD4	O13-C32-C33-C34
21	aj	102	CD4	C16-C15-C28-O5
21	ae	101	CD4	C44-C45-C63-C64
14	AA	1001	BCL	C11-C10-C8-C7
14	AF	1001	BCL	C11-C12-C13-C15
14	AG	102	BCL	C6-C7-C8-C10
14	AG	102	BCL	C11-C12-C13-C15
14	AH	101	BCL	C2-C3-C5-C6
14	AK	101	BCL	C6-C7-C8-C10
14	AV	102	BCL	C6-C7-C8-C10
14	AX	102	BCL	C2-C3-C5-C6
14	AX	102	BCL	C11-C10-C8-C7
14	BI	1003	BCL	C11-C12-C13-C15
14	BK	1006	BCL	C11-C12-C13-C15
14	BP	1005	BCL	C11-C12-C13-C15
14	aj	103	BCL	C12-C13-C15-C16
14	bc	102	BCL	C12-C13-C15-C16
14	bf	103	BCL	C6-C7-C8-C10
14	bk	102	BCL	C11-C10-C8-C7
14	bl	104	BCL	C11-C10-C8-C7
14	bp	102	BCL	C12-C13-C15-C16
16	BE	101	V7N	C27-C28-C29-C39
16	BW	1001	V7N	C27-C28-C29-C39
16	bm	101	V7N	C27-C28-C29-C39
15	BB	104	LMT	C1-C2-C3-C4
14	AX	103	BCL	C2A-CAA-CBA-CGA
15	BA	104	LMT	C3'-C4'-O1B-C1B
15	AP	101	LMT	C1-C2-C3-C4
14	BE	104	BCL	C13-C15-C16-C17
20	bc	103	0V9	C38-C39-C40-C41
20	be	102	0V9	C30-C31-C32-C33
20	bn	104	0V9	C34-C35-C36-C37
14	BM	1002	BCL	C8-C10-C11-C12
20	bl	103	0V9	C31-C30-O3-C3

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Mol	Chain	Res	Type	Atoms
20	bk	104	0V9	C36-C37-C38-C39
20	bh	103	0V9	C14-C15-C16-C17
14	ao	102	BCL	C8-C10-C11-C12
15	BD	103	LMT	C3'-C4'-O1B-C1B
15	BR	1005	LMT	C2-C3-C4-C5
15	BS	1005	LMT	C4-C5-C6-C7
14	L	1010	BCL	CAD-CBD-CGD-O2D
20	bj	104	0V9	C3-C2-O2-C10
14	AR	102	BCL	C3-C5-C6-C7
15	bn	105	LMT	C7-C8-C9-C10
14	AX	102	BCL	C4-C3-C5-C6
14	af	101	BCL	C4-C3-C5-C6
15	L	1004	LMT	O5'-C1'-O1'-C1
15	bn	105	LMT	O5'-C1'-O1'-C1
20	H1	101	0V9	C1-C2-C3-O3
20	aj	101	0V9	C1-C2-C3-O3
20	be	102	0V9	C1-C2-C3-O3
20	bk	104	0V9	C1-C2-C3-O3
21	H1	102	CD4	C30-C29-O8-P1
21	H1	104	CD4	C15-C28-O5-P1
20	bb	103	0V9	C33-C34-C35-C36
20	H1	101	0V9	O3P-C1-C2-O2
20	ba	102	0V9	O3P-C1-C2-O2
20	be	102	0V9	O3P-C1-C2-O2
20	bk	103	0V9	O3P-C1-C2-O2
20	bl	103	0V9	O3P-C1-C2-O2
21	ae	101	CD4	O13-C32-C33-O16
21	af	102	CD4	O13-C32-C33-O16
15	BP	1002	LMT	O5B-C5B-C6B-O6B
15	bh	104	LMT	O5B-C5B-C6B-O6B
15	bf	102	LMT	C1-C2-C3-C4
15	AH	104	LMT	C3'-C4'-O1B-C1B
15	BR	1005	LMT	O1'-C1-C2-C3
14	AB	1002	BCL	CHA-CBD-CGD-O2D
14	AP	103	BCL	CHA-CBD-CGD-O2D
14	BJ	1002	BCL	CHA-CBD-CGD-O2D
14	BK	1006	BCL	CHA-CBD-CGD-O2D
14	bh	105	BCL	CHA-CBD-CGD-O1D
14	bh	105	BCL	CHA-CBD-CGD-O2D
15	AD	101	LMT	C5'-C4'-O1B-C1B
15	M	403	LMT	C1-C2-C3-C4
15	AU	101	LMT	C2'-C1'-O1'-C1

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Mol	Chain	Res	Type	Atoms
20	bk	104	0V9	O2-C2-C3-O3
21	M	402	CD4	O2-C15-C16-O3
15	BX	1003	LMT	C5'-C4'-O1B-C1B
14	aj	103	BCL	C8-C10-C11-C12
16	BJ	1001	V7N	C23-C24-C25-C26
20	C1	1001	0V9	C19-C20-C21-C22
20	bb	103	0V9	C15-C16-C17-C18
16	BK	1001	V7N	C37-C22-C23-C24
25	L	1009	BPH	C4-C3-C5-C6
15	BA	105	LMT	C4-C5-C6-C7
28	ai	102	UYH	C17-C18-C19-C20
21	af	102	CD4	O1-C14-O2-C15
14	BG	1004	BCL	C5-C6-C7-C8
14	AG	102	BCL	C6-C7-C8-C9
14	AG	102	BCL	C11-C12-C13-C14
14	ag	1001	BCL	C14-C13-C15-C16
14	bc	102	BCL	C14-C13-C15-C16
15	BP	1002	LMT	C4-C5-C6-C7
21	M	402	CD4	C36-C37-C38-C39
14	BI	1003	BCL	C13-C15-C16-C17
15	BE	103	LMT	C6-C7-C8-C9
15	BQ	1005	LMT	O5'-C5'-C6'-O6'
20	bi	103	0V9	C35-C36-C37-C38
14	BH	1005	BCL	C13-C15-C16-C17
15	AX	101	LMT	C2B-C1B-O1B-C4'
15	AA	1003	LMT	C5'-C4'-O1B-C1B
20	bm	102	0V9	C37-C38-C39-C40
14	AI	103	BCL	C1A-C2A-CAA-CBA
14	AV	101	BCL	C1A-C2A-CAA-CBA
14	bi	104	BCL	C1A-C2A-CAA-CBA
14	bp	102	BCL	C1A-C2A-CAA-CBA
14	aj	103	BCL	C2-C1-O2A-CGA
14	an	1001	BCL	C2-C1-O2A-CGA
15	L	1008	LMT	O5B-C5B-C6B-O6B
16	BJ	1001	V7N	C27-C28-C29-C39
20	aj	101	0V9	C4-O4P-P-O3P
20	bh	103	0V9	C1-O3P-P-O4P
15	bh	104	LMT	C11-C10-C9-C8
14	AG	101	BCL	C3-C5-C6-C7
20	C1	1001	0V9	C2-C1-O3P-P
20	bk	103	0V9	C2-C1-O3P-P
22	H1	103	PGW	C02-C03-O11-P

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Mol	Chain	Res	Type	Atoms
15	bc	104	LMT	C2B-C1B-O1B-C4'
15	BN	101	LMT	C5'-C4'-O1B-C1B
20	C1	1001	0V9	C1-O3P-P-O1P
20	C1	1001	0V9	C4-O4P-P-O1P
20	ba	102	0V9	C4-O4P-P-O2P
20	bc	103	0V9	C1-O3P-P-O2P
20	bh	103	0V9	C1-O3P-P-O1P
20	bk	103	0V9	C1-O3P-P-O1P
20	bn	104	0V9	C1-O3P-P-O1P
20	bp	103	0V9	C1-O3P-P-O2P
21	H1	104	CD4	C31-O10-P2-O12
21	ae	101	CD4	C29-O8-P1-O7
21	aj	102	CD4	C29-O8-P1-O6
22	H1	103	PGW	C04-O12-P-O13
15	bl	101	LMT	O1'-C1-C2-C3
15	bn	101	LMT	O5'-C1'-O1'-C1
14	AQ	101	BCL	CBA-CGA-O2A-C1
20	be	103	0V9	O3P-C1-C2-C3
21	M	402	CD4	C16-C15-C28-O5
21	ae	101	CD4	O13-C32-C33-C34
20	bn	104	0V9	C32-C33-C34-C35
20	bb	103	0V9	O4P-C4-C5-N
15	BQ	1004	LMT	C4'-C5'-C6'-O6'
20	aj	101	0V9	C35-C36-C37-C38
14	am	1001	BCL	C3-C5-C6-C7
15	bh	101	LMT	C11-C10-C9-C8
21	aj	102	CD4	C23-C24-C25-C26
16	BM	1001	V7N	C23-C24-C25-C26
15	be	104	LMT	C7-C8-C9-C10
14	bh	105	BCL	CAD-CBD-CGD-O1D
20	C1	1001	0V9	C5-C4-O4P-P
20	H1	101	0V9	C5-C4-O4P-P
20	aj	101	0V9	C5-C4-O4P-P
20	bc	103	0V9	C5-C4-O4P-P
20	be	103	0V9	C5-C4-O4P-P
20	bh	103	0V9	C5-C4-O4P-P
20	bk	103	0V9	C5-C4-O4P-P
14	ae	102	BCL	C13-C15-C16-C17
15	BN	101	LMT	C9-C10-C11-C12
15	BS	1002	LMT	C4-C5-C6-C7
15	bc	104	LMT	C7-C8-C9-C10
21	H1	102	CD4	C42-C43-C44-C45

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Mol	Chain	Res	Type	Atoms
15	BC	102	LMT	C4-C5-C6-C7
15	BL	1004	LMT	O5B-C1B-O1B-C4'
15	AG	103	LMT	C4-C5-C6-C7
15	BM	1003	LMT	C5-C6-C7-C8
15	BG	1006	LMT	O5'-C5'-C6'-O6'
15	AP	101	LMT	C3-C4-C5-C6
15	bm	105	LMT	O1'-C1-C2-C3
14	BU	1004	BCL	C16-C17-C18-C19
15	bh	104	LMT	O5B-C1B-O1B-C4'
14	AH	103	BCL	C12-C13-C15-C16
14	AN	104	BCL	C6-C7-C8-C10
14	BM	1002	BCL	C6-C7-C8-C10
14	BS	1003	BCL	C6-C7-C8-C10
14	BV	1005	BCL	C3A-C2A-CAA-CBA
14	BW	1003	BCL	C12-C13-C15-C16
14	ag	1001	BCL	C11-C12-C13-C15
14	al	1001	BCL	C12-C13-C15-C16
20	be	103	0V9	O3P-C1-C2-O2
20	bg	102	0V9	O3P-C1-C2-O2
20	bp	103	0V9	O3P-C1-C2-O2
20	bp	103	0V9	C10-C11-C12-C13
24	L	1006	V7B	C10-C11-C12-C13
16	BA	101	V7N	C27-C28-C29-C39
15	BX	1003	LMT	C2-C1-O1'-C1'
15	BQ	1004	LMT	C3-C4-C5-C6
14	AE	1003	BCL	C16-C17-C18-C20
15	AX	101	LMT	C6-C7-C8-C9
16	BQ	1001	V7N	O42-C34-C9-C10
16	BU	1001	V7N	C7-C8-C9-C10
16	bo	102	V7N	O42-C34-C9-C10
21	H1	104	CD4	C37-C38-C39-C40
21	af	102	CD4	C28-C15-C16-O3
24	L	1006	V7B	O1-C7-C8-C9
20	be	103	0V9	O2-C2-C3-O3
21	H1	104	CD4	O2-C15-C16-O3
21	ae	101	CD4	O2-C15-C16-O3
24	L	1006	V7B	O1-C7-C8-O7
24	ag	1002	V7B	O1-C7-C8-O7
14	ak	1001	BCL	C8-C10-C11-C12
15	BB	102	LMT	C4-C5-C6-C7
15	BU	1002	LMT	O5B-C5B-C6B-O6B
15	BS	1005	LMT	O5B-C1B-O1B-C4'

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Mol	Chain	Res	Type	Atoms
15	BR	1005	LMT	C7-C8-C9-C10
14	BM	1002	BCL	C4-C3-C5-C6
15	BG	1002	LMT	O5B-C5B-C6B-O6B
15	BN	101	LMT	O1'-C1-C2-C3
14	AH	103	BCL	C14-C13-C15-C16
14	AV	102	BCL	C6-C7-C8-C9
14	AV	103	BCL	C11-C10-C8-C9
14	AX	102	BCL	C11-C10-C8-C9
14	BK	1006	BCL	C11-C12-C13-C14
14	BP	1005	BCL	C11-C12-C13-C14
14	BW	1003	BCL	C14-C13-C15-C16
14	L	1010	BCL	C14-C13-C15-C16
15	AF	1002	LMT	O5'-C1'-O1'-C1
15	BN	105	LMT	O5'-C1'-O1'-C1
15	AS	101	LMT	O1'-C1-C2-C3
15	bn	101	LMT	C4-C5-C6-C7
15	AG	103	LMT	C3'-C4'-O1B-C1B
14	BE	104	BCL	C5-C6-C7-C8
15	AQ	103	LMT	C4'-C5'-C6'-O6'
15	BC	105	LMT	O5'-C5'-C6'-O6'
15	BF	101	LMT	C4-C5-C6-C7
20	bc	103	0V9	C37-C38-C39-C40
14	AI	102	BCL	C2-C3-C5-C6
14	BM	1002	BCL	C2-C3-C5-C6
14	af	101	BCL	C2-C3-C5-C6
15	AE	1002	LMT	C3-C4-C5-C6
15	BD	102	LMT	C2-C3-C4-C5
15	BV	1006	LMT	C5-C6-C7-C8
15	be	104	LMT	C5-C6-C7-C8
14	AE	1003	BCL	C5-C6-C7-C8
15	AS	101	LMT	C1-C2-C3-C4
15	BC	103	LMT	O1'-C1-C2-C3
20	bn	104	0V9	C38-C39-C40-C41
21	H1	104	CD4	C39-C40-C41-C42
14	AB	1001	BCL	C8-C10-C11-C12
20	bg	102	0V9	C1-C2-O2-C10
14	AG	101	BCL	C2A-CAA-CBA-CGA
14	BH	1005	BCL	C2A-CAA-CBA-CGA
14	bd	102	BCL	C2A-CAA-CBA-CGA
15	BS	1006	LMT	O1'-C1-C2-C3
20	bj	104	0V9	C35-C36-C37-C38
14	ad	1001	BCL	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
14	AG	101	BCL	C2-C1-O2A-CGA
14	AI	103	BCL	C2-C1-O2A-CGA
14	AQ	101	BCL	C2-C1-O2A-CGA
15	AD	101	LMT	C7-C8-C9-C10
15	BL	1004	LMT	C5'-C4'-O1B-C1B
15	bn	101	LMT	C5-C6-C7-C8
20	bn	104	0V9	O3P-C1-C2-O2
15	BL	1005	LMT	C4-C5-C6-C7
20	bn	104	0V9	C37-C38-C39-C40
22	H1	103	PGW	C15-C16-C17-C18
14	AC	103	BCL	C2-C3-C5-C6
16	BK	1001	V7N	C21-C22-C23-C24
15	bc	104	LMT	C4'-C5'-C6'-O6'
15	BN	101	LMT	O5B-C1B-O1B-C4'
15	BR	1002	LMT	C4-C5-C6-C7
15	BV	1003	LMT	O5B-C5B-C6B-O6B
16	bj	101	V7N	C31-C1-O32-C41
15	BM	1003	LMT	C4'-C5'-C6'-O6'
20	H1	101	0V9	O2-C2-C3-O3
15	AJ	103	LMT	C7-C8-C9-C10
21	H1	104	CD4	C21-C22-C23-C24
20	H1	101	0V9	C4-O4P-P-O3P
20	bg	104	0V9	C4-O4P-P-O3P
20	bk	103	0V9	C4-O4P-P-O3P
20	bm	102	0V9	C4-O4P-P-O3P
21	af	102	CD4	C29-O8-P1-O5
15	bh	104	LMT	C2B-C1B-O1B-C4'
15	be	104	LMT	C3-C4-C5-C6
15	L	1003	LMT	C1-C2-C3-C4
14	AH	103	BCL	C8-C10-C11-C12
16	bi	101	V7N	C31-C1-C2-C3
22	H1	103	PGW	C06-C07-C08-C09
14	AJ	102	BCL	C10-C11-C12-C13
15	BF	103	LMT	O1'-C1-C2-C3
21	H1	104	CD4	C36-C37-C38-C39
20	bp	103	0V9	C1-C2-C3-O3
21	ae	101	CD4	C28-C15-C16-O3
14	BV	1005	BCL	C4-C3-C5-C6
16	bb	101	V7N	C37-C22-C23-C24
14	aj	103	BCL	C11-C12-C13-C15
14	an	1001	BCL	C11-C10-C8-C7
20	bh	103	0V9	C33-C34-C35-C36

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Mol	Chain	Res	Type	Atoms
14	BM	1002	BCL	C6-C7-C8-C9
14	bf	103	BCL	C6-C7-C8-C9
14	AC	102	BCL	C8-C10-C11-C12
16	BG	1001	V7N	C27-C28-C29-C39
16	bc	101	V7N	C27-C28-C29-C39
14	AE	1003	BCL	C16-C17-C18-C19
15	BI	1004	LMT	C4-C5-C6-C7
15	BP	1003	LMT	C5'-C4'-O1B-C1B
16	bl	102	V7N	O32-C1-C2-C3
27	M	404	CRT	C36-C37-C38-O2
15	BA	105	LMT	C2B-C1B-O1B-C4'
28	ai	102	UYH	C22-C23-C24-C25
16	bo	102	V7N	C38-C26-C27-C28
14	BC	104	BCL	C15-C16-C17-C18
15	L	1004	LMT	C2-C3-C4-C5
15	be	104	LMT	C2-C3-C4-C5
15	AQ	103	LMT	C3-C4-C5-C6
20	be	103	0V9	C16-C17-C18-C19
15	BC	102	LMT	C5'-C4'-O1B-C1B
15	BK	1004	LMT	O5B-C5B-C6B-O6B
16	BG	1001	V7N	C23-C24-C25-C26
20	bg	102	0V9	C10-C11-C12-C13
15	AA	1003	LMT	O5B-C5B-C6B-O6B
20	aj	101	0V9	C33-C34-C35-C36
14	BU	1004	BCL	C16-C17-C18-C20
20	be	103	0V9	C31-C30-O3-C3
15	bm	103	LMT	C4B-C5B-C6B-O6B
20	bg	104	0V9	C15-C16-C17-C18
15	BP	1002	LMT	C2B-C1B-O1B-C4'
15	BR	1003	LMT	C6-C7-C8-C9
15	bj	102	LMT	C4-C5-C6-C7
15	BP	1002	LMT	C5'-C4'-O1B-C1B
15	BT	104	LMT	C4-C5-C6-C7
20	C1	1001	0V9	C20-C21-C22-C23
15	BH	1004	LMT	C4'-C5'-C6'-O6'
20	bk	104	0V9	O5-C30-O3-C3
21	H1	104	CD4	C15-C16-O3-C17
16	bk	101	V7N	C27-C28-C29-C39
14	BF	102	BCL	C5-C6-C7-C8
15	BS	1004	LMT	C5'-C4'-O1B-C1B
15	bm	103	LMT	C5-C6-C7-C8
20	bi	103	0V9	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
15	BR	1002	LMT	O5B-C1B-O1B-C4'
14	bm	104	BCL	C4-C3-C5-C6
23	L	1001	MQ8	C34-C33-C35-C36
23	M	407	MQ8	C19-C18-C20-C21
14	AV	101	BCL	C2-C3-C5-C6
14	al	1001	BCL	C2-C3-C5-C6
14	AQ	101	BCL	O1A-CGA-O2A-C1
20	bi	103	0V9	C15-C16-C17-C18
15	BV	1004	LMT	O5B-C1B-O1B-C4'
14	L	1010	BCL	C2-C1-O2A-CGA
14	ad	1001	BCL	C2-C1-O2A-CGA
14	AN	101	BCL	C15-C16-C17-C18
15	BI	1004	LMT	C2B-C1B-O1B-C4'
15	AS	101	LMT	C5'-C4'-O1B-C1B
15	BS	1002	LMT	C5'-C4'-O1B-C1B
14	AE	1004	BCL	C2A-CAA-CBA-CGA
14	BX	1002	BCL	C2A-CAA-CBA-CGA
20	bg	102	0V9	C35-C36-C37-C38
15	BV	1002	LMT	C4-C5-C6-C7
14	AR	102	BCL	C3A-C2A-CAA-CBA
14	BA	103	BCL	C3A-C2A-CAA-CBA
14	BB	103	BCL	C3A-C2A-CAA-CBA
14	BH	1005	BCL	C3A-C2A-CAA-CBA
14	BT	103	BCL	C3A-C2A-CAA-CBA
15	bn	101	LMT	C4'-C5'-C6'-O6'
16	bh	102	V7N	C27-C28-C29-C39
15	BM	1003	LMT	C2-C1-O1'-C1'
20	bj	104	0V9	C13-C14-C15-C16
15	AN	103	LMT	C7-C8-C9-C10
23	M	407	MQ8	C17-C18-C20-C21
21	aj	102	CD4	C9-C10-C11-C12
14	AC	101	BCL	C11-C12-C13-C14
14	AR	102	BCL	C14-C13-C15-C16
14	AS	104	BCL	C11-C12-C13-C14
14	BS	1003	BCL	C11-C10-C8-C9
14	bp	102	BCL	C5-C6-C7-C8
15	BH	1002	LMT	C4-C5-C6-C7
15	AJ	103	LMT	C3'-C4'-O1B-C1B
15	BL	1005	LMT	C2-C3-C4-C5
20	bh	103	0V9	C34-C35-C36-C37
20	ba	102	0V9	C1-C2-C3-O3
14	AJ	102	BCL	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
15	BK	1005	LMT	O5B-C1B-O1B-C4'
15	BH	1003	LMT	C3-C4-C5-C6
14	bb	104	BCL	C16-C17-C18-C20
14	AS	104	BCL	O2A-C1-C2-C3
14	bd	102	BCL	O2A-C1-C2-C3
14	bp	102	BCL	O2A-C1-C2-C3
25	L	1009	BPH	O2A-C1-C2-C3
20	bm	102	0V9	C31-C30-O3-C3
15	BT	102	LMT	C5'-C4'-O1B-C1B
16	BR	1001	V7N	C38-C26-C27-C28
15	BS	1004	LMT	O5B-C5B-C6B-O6B
20	be	102	0V9	C20-C21-C22-C23
21	M	402	CD4	C40-C41-C42-C43
15	BI	1002	LMT	O5B-C1B-O1B-C4'
20	bl	103	0V9	C1-C2-O2-C10
20	bl	103	0V9	C3-C2-O2-C10
20	bo	104	0V9	C3-C2-O2-C10
22	H1	103	PGW	C03-C02-O01-C1
15	BT	104	LMT	C2B-C1B-O1B-C4'
14	bp	102	BCL	C4-C3-C5-C6
14	AM	102	BCL	C1A-C2A-CAA-CBA
14	BF	102	BCL	C1A-C2A-CAA-CBA
14	BW	1003	BCL	C1A-C2A-CAA-CBA
14	ba	103	BCL	C1A-C2A-CAA-CBA
14	bb	104	BCL	C1A-C2A-CAA-CBA
14	bg	105	BCL	C1A-C2A-CAA-CBA
14	bl	104	BCL	C1A-C2A-CAA-CBA
15	BB	105	LMT	C5-C6-C7-C8
14	bb	104	BCL	C16-C17-C18-C19
14	BI	1003	BCL	C6-C7-C8-C10
14	BM	1002	BCL	C11-C12-C13-C15
14	BN	103	BCL	C11-C12-C13-C15
14	ag	1001	BCL	C12-C13-C15-C16
14	ap	1001	BCL	C11-C12-C13-C15
14	bb	104	BCL	C12-C13-C15-C16
21	aj	102	CD4	C6-C7-C8-C9
20	bj	104	0V9	C18-C19-C20-C21
15	bi	102	LMT	C6-C7-C8-C9
20	bl	103	0V9	C4-O4P-P-O3P
20	be	102	0V9	C31-C30-O3-C3
17	C	404	HEC	CAD-CBD-CGD-O2D
20	bg	104	0V9	C35-C36-C37-C38

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Mol	Chain	Res	Type	Atoms
14	ai	101	BCL	C10-C11-C12-C13
25	M	406	BPH	C8-C10-C11-C12
15	AS	101	LMT	O5B-C1B-O1B-C4'
15	L	1008	LMT	C6-C7-C8-C9
15	bj	102	LMT	C3-C4-C5-C6
14	BB	103	BCL	C2A-CAA-CBA-CGA
14	BJ	1002	BCL	C2A-CAA-CBA-CGA
14	bl	104	BCL	C2A-CAA-CBA-CGA
15	AJ	104	LMT	O5B-C5B-C6B-O6B
20	bk	104	0V9	O2-C10-C11-C12
17	C	404	HEC	CAD-CBD-CGD-O1D
20	bg	104	0V9	O4-C10-O2-C2
14	ah	1001	BCL	C13-C15-C16-C17
20	bc	103	0V9	C35-C36-C37-C38
14	AS	104	BCL	C4-C3-C5-C6
16	bg	101	V7N	C37-C22-C23-C24
15	AA	1003	LMT	C3-C4-C5-C6
15	AX	101	LMT	C4-C5-C6-C7
15	BV	1004	LMT	C5'-C4'-O1B-C1B
15	BC	106	LMT	O5B-C5B-C6B-O6B
25	L	1009	BPH	C2-C3-C5-C6
15	ab	101	LMT	C6-C7-C8-C9
15	bl	101	LMT	C2B-C1B-O1B-C4'
15	bi	102	LMT	C4'-C5'-C6'-O6'
21	H1	104	CD4	C24-C25-C26-C27
15	BA	104	LMT	C2B-C1B-O1B-C4'
15	BL	1004	LMT	C2B-C1B-O1B-C4'
15	BX	1003	LMT	C3'-C4'-O1B-C1B
15	bm	105	LMT	C3-C4-C5-C6
15	bg	103	LMT	O5'-C5'-C6'-O6'
20	be	103	0V9	C36-C37-C38-C39
21	ae	101	CD4	O16-C33-C34-O14
24	L	1006	V7B	O7-C8-C9-O8
16	AE	1005	V7N	C27-C28-C29-C39
14	AK	102	BCL	C8-C10-C11-C12
14	AX	103	BCL	C8-C10-C11-C12
15	BW	1004	LMT	C4-C5-C6-C7
16	BB	101	V7N	C23-C24-C25-C26
15	BH	1003	LMT	C2-C3-C4-C5
15	bc	104	LMT	C2-C3-C4-C5
14	aa	1001	BCL	C8-C10-C11-C12
21	af	102	CD4	C37-C38-C39-C40

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Mol	Chain	Res	Type	Atoms
15	BB	104	LMT	O5B-C5B-C6B-O6B
14	ap	1001	BCL	C3-C5-C6-C7
14	AI	102	BCL	C4-C3-C5-C6
14	BF	102	BCL	C4-C3-C5-C6
16	BR	1001	V7N	C37-C22-C23-C24
15	AD	101	LMT	C3'-C4'-O1B-C1B
15	bb	102	LMT	C1-C2-C3-C4
14	bp	102	BCL	C2-C3-C5-C6
16	bb	101	V7N	C21-C22-C23-C24
15	BS	1002	LMT	O5B-C5B-C6B-O6B
14	aj	103	BCL	C11-C12-C13-C14
14	bc	102	BCL	C5-C6-C7-C8
14	bm	104	BCL	C5-C6-C7-C8
15	BK	1004	LMT	C6-C7-C8-C9
15	bb	102	LMT	C11-C10-C9-C8
15	L	1008	LMT	C4-C5-C6-C7
15	bd	103	LMT	C4-C5-C6-C7
14	AE	1003	BCL	C15-C16-C17-C18
14	AP	102	BCL	C15-C16-C17-C18
25	M	406	BPH	C10-C11-C12-C13
14	BV	1005	BCL	C2A-CAA-CBA-CGA
15	L	1003	LMT	O5'-C5'-C6'-O6'
20	bm	102	0V9	O5-C30-O3-C3
14	AL	101	BCL	C15-C16-C17-C18
14	M	405	BCL	CAA-CBA-CGA-O2A
15	bl	101	LMT	C4B-C5B-C6B-O6B
21	H1	102	CD4	C10-C11-C12-C13
16	BB	101	V7N	C27-C28-C29-C39
16	BD	101	V7N	C9-C10-C11-C12
16	BM	1001	V7N	C27-C28-C29-C39
14	BO	1004	BCL	C4C-C3C-CAC-CBC
16	BR	1001	V7N	C25-C26-C27-C28
14	AL	103	BCL	C13-C15-C16-C17
15	BT	101	LMT	C1-C2-C3-C4
14	BV	1005	BCL	C2-C3-C5-C6
15	BS	1004	LMT	C9-C10-C11-C12
20	bj	104	0V9	C31-C32-C33-C34
21	M	402	CD4	C52-C53-C54-C55
24	ag	1002	V7B	C30-C31-C32-C33
20	bg	104	0V9	C36-C37-C38-C39
20	bk	103	0V9	C18-C19-C20-C21
14	AC	101	BCL	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
15	AJ	104	LMT	C4'-C5'-C6'-O6'
17	C	403	HEC	CAD-CBD-CGD-O2D
14	BN	103	BCL	C2A-CAA-CBA-CGA
14	BR	1004	BCL	C2A-CAA-CBA-CGA
15	BV	1003	LMT	C4'-C5'-C6'-O6'
15	bm	103	LMT	C11-C10-C9-C8
15	BH	1002	LMT	C2B-C1B-O1B-C4'
15	BD	104	LMT	O5B-C1B-O1B-C4'
14	BJ	1002	BCL	C4-C3-C5-C6
14	ap	1001	BCL	C4-C3-C5-C6
16	AE	1005	V7N	C37-C22-C23-C24
16	AO	1001	V7N	C37-C22-C23-C24
15	bm	105	LMT	C2B-C1B-O1B-C4'
14	AM	102	BCL	C12-C13-C15-C16
14	L	1010	BCL	C12-C13-C15-C16
14	bj	103	BCL	C6-C7-C8-C10
14	bj	103	BCL	C11-C12-C13-C15
16	bg	101	V7N	C21-C22-C23-C24
23	M	407	MQ8	C37-C38-C40-C41
15	BN	101	LMT	C3'-C4'-O1B-C1B
15	L	1008	LMT	C1-C2-C3-C4
15	BA	105	LMT	C5'-C4'-O1B-C1B
14	BF	102	BCL	C1-C2-C3-C4
14	am	1001	BCL	C1-C2-C3-C4
14	BW	1003	BCL	CAA-CBA-CGA-O2A
15	AF	1002	LMT	C2'-C1'-O1'-C1
20	bk	104	0V9	C19-C20-C21-C22
15	L	1005	LMT	C2B-C1B-O1B-C4'
14	al	1001	BCL	C3-C5-C6-C7
14	AQ	101	BCL	CAA-CBA-CGA-O2A
15	BD	103	LMT	O5B-C1B-O1B-C4'
20	aj	101	0V9	C16-C17-C18-C19
15	BD	104	LMT	C5'-C4'-O1B-C1B
14	BB	103	BCL	C4-C3-C5-C6
16	BH	1001	V7N	C37-C22-C23-C24
16	BU	1001	V7N	C37-C22-C23-C24
17	C	403	HEC	CAD-CBD-CGD-O1D
14	BB	103	BCL	C2-C3-C5-C6
14	BJ	1002	BCL	C2-C3-C5-C6
14	bm	104	BCL	C2-C3-C5-C6
15	AG	103	LMT	C7-C8-C9-C10
21	H1	104	CD4	C2-C3-C4-C5

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Mol	Chain	Res	Type	Atoms
14	AC	101	BCL	C16-C17-C18-C20
20	bg	102	0V9	O2-C10-C11-C12
14	AA	1002	BCL	C11-C10-C8-C9
14	AB	1001	BCL	C6-C7-C8-C9
14	AI	102	BCL	C14-C13-C15-C16
14	AP	103	BCL	C6-C7-C8-C9
14	BT	103	BCL	C14-C13-C15-C16
14	ag	1001	BCL	C11-C12-C13-C14
15	BJ	1003	LMT	C1-C2-C3-C4
20	be	103	0V9	C15-C16-C17-C18
15	BQ	1004	LMT	C7-C8-C9-C10
14	AP	102	BCL	C8-C10-C11-C12
14	AI	103	BCL	C3A-C2A-CAA-CBA
14	AM	102	BCL	C3A-C2A-CAA-CBA
14	bg	105	BCL	C3A-C2A-CAA-CBA
14	bl	104	BCL	C3A-C2A-CAA-CBA
17	C	403	HEC	C3D-CAD-CBD-CGD
14	ad	1001	BCL	CAA-CBA-CGA-O2A
20	bh	103	0V9	C16-C17-C18-C19
15	BL	1002	LMT	C6-C7-C8-C9
14	AL	101	BCL	CAD-CBD-CGD-O2D
14	AR	102	BCL	CAD-CBD-CGD-O2D
14	AV	103	BCL	CAD-CBD-CGD-O2D
20	bo	104	0V9	C1-C2-O2-C10
25	L	1009	BPH	CAD-CBD-CGD-O2D
14	AC	101	BCL	C16-C17-C18-C19
15	BU	1003	LMT	O5B-C5B-C6B-O6B
16	AO	1001	V7N	C27-C28-C29-C39
15	BW	1004	LMT	O5B-C1B-O1B-C4'
21	M	402	CD4	C48-C49-C50-C51
15	BE	103	LMT	C3-C4-C5-C6
21	aj	102	CD4	C36-C37-C38-C39
15	bh	101	LMT	C5-C6-C7-C8
15	BS	1005	LMT	C2B-C1B-O1B-C4'
15	BW	1002	LMT	C9-C10-C11-C12
21	aj	102	CD4	C1-C2-C3-C4
16	BB	101	V7N	C37-C22-C23-C24
17	C	401	HEC	CAA-CBA-CGA-O2A
15	BX	1004	LMT	C5'-C4'-O1B-C1B
14	bl	104	BCL	C5-C6-C7-C8
14	AS	104	BCL	C2-C3-C5-C6
14	ap	1001	BCL	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
16	BR	1001	V7N	C21-C22-C23-C24
14	aj	103	BCL	CAA-CBA-CGA-O2A
15	BL	1004	LMT	O1'-C1-C2-C3
15	BN	104	LMT	C3-C4-C5-C6
20	ba	102	0V9	C15-C16-C17-C18
15	BR	1002	LMT	C5'-C4'-O1B-C1B
20	bl	103	0V9	C1-C2-C3-O3
24	ag	1002	V7B	O1-C7-C8-C9
21	af	102	CD4	O2-C15-C28-O5
20	bk	104	0V9	C14-C15-C16-C17
24	ag	1002	V7B	C10-C11-C12-C13
14	AJ	102	BCL	CBD-CGD-O2D-CED
15	BU	1002	LMT	C9-C10-C11-C12
14	BK	1006	BCL	O2A-C1-C2-C3
14	BT	103	BCL	O2A-C1-C2-C3
14	an	1001	BCL	O2A-C1-C2-C3
14	bl	104	BCL	O2A-C1-C2-C3
25	M	406	BPH	O2A-C1-C2-C3
15	BK	1002	LMT	O1'-C1-C2-C3
15	bj	102	LMT	C5'-C4'-O1B-C1B
15	AD	101	LMT	C2B-C1B-O1B-C4'
17	C	401	HEC	CAA-CBA-CGA-O1A
14	AS	102	BCL	C8-C10-C11-C12
14	AC	101	BCL	CHA-CBD-CGD-O1D
14	AC	101	BCL	CHA-CBD-CGD-O2D
14	AE	1003	BCL	CHA-CBD-CGD-O1D
14	AE	1003	BCL	CHA-CBD-CGD-O2D
14	AF	1001	BCL	CHA-CBD-CGD-O2D
14	AG	101	BCL	CHA-CBD-CGD-O2D
14	AK	101	BCL	CHA-CBD-CGD-O1D
14	AK	101	BCL	CHA-CBD-CGD-O2D
14	AM	101	BCL	CHA-CBD-CGD-O1D
14	AM	101	BCL	CHA-CBD-CGD-O2D
14	AN	101	BCL	CHA-CBD-CGD-O1D
14	AN	101	BCL	CHA-CBD-CGD-O2D
14	AP	102	BCL	CHA-CBD-CGD-O2D
14	AS	102	BCL	CHA-CBD-CGD-O1D
14	AS	102	BCL	CHA-CBD-CGD-O2D
14	AS	104	BCL	CHA-CBD-CGD-O2D
14	AU	103	BCL	CHA-CBD-CGD-O1D
14	AU	103	BCL	CHA-CBD-CGD-O2D
14	BB	103	BCL	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
14	BC	104	BCL	CHA-CBD-CGD-O1D
14	BC	104	BCL	CHA-CBD-CGD-O2D
14	BD	105	BCL	CHA-CBD-CGD-O1D
14	BD	105	BCL	CHA-CBD-CGD-O2D
14	BE	104	BCL	CHA-CBD-CGD-O1D
14	BE	104	BCL	CHA-CBD-CGD-O2D
14	BF	102	BCL	CHA-CBD-CGD-O1D
14	BF	102	BCL	CHA-CBD-CGD-O2D
14	BH	1005	BCL	CHA-CBD-CGD-O1D
14	BH	1005	BCL	CHA-CBD-CGD-O2D
14	BI	1003	BCL	CHA-CBD-CGD-O1D
14	BI	1003	BCL	CHA-CBD-CGD-O2D
14	BN	103	BCL	CHA-CBD-CGD-O1D
14	BN	103	BCL	CHA-CBD-CGD-O2D
14	BO	1004	BCL	CHA-CBD-CGD-O2D
14	BQ	1003	BCL	CHA-CBD-CGD-O2D
14	BS	1003	BCL	CHA-CBD-CGD-O1D
14	BS	1003	BCL	CHA-CBD-CGD-O2D
14	BU	1004	BCL	CHA-CBD-CGD-O1D
14	BU	1004	BCL	CHA-CBD-CGD-O2D
14	BV	1005	BCL	CHA-CBD-CGD-O1D
14	BV	1005	BCL	CHA-CBD-CGD-O2D
14	BW	1003	BCL	CHA-CBD-CGD-O1D
14	BW	1003	BCL	CHA-CBD-CGD-O2D
14	BX	1002	BCL	CHA-CBD-CGD-O1D
14	BX	1002	BCL	CHA-CBD-CGD-O2D
14	ao	102	BCL	C15-C16-C17-C18
14	AV	101	BCL	C4-C3-C5-C6
14	AX	102	BCL	CAA-CBA-CGA-O2A
14	BC	104	BCL	CAA-CBA-CGA-O2A
28	ai	102	UYH	C16-C17-C18-C19
15	BC	102	LMT	C2B-C1B-O1B-C4'
14	bf	103	BCL	C10-C11-C12-C13
15	BB	105	LMT	C2B-C1B-O1B-C4'
15	BD	102	LMT	C9-C10-C11-C12
14	AL	101	BCL	CAA-CBA-CGA-O2A
14	AV	103	BCL	CAA-CBA-CGA-O2A
21	H1	102	CD4	C12-C13-C14-O2
20	H1	101	0V9	C34-C35-C36-C37
20	bg	104	0V9	O2-C2-C3-O3
20	bj	104	0V9	O2-C2-C3-O3
21	af	102	CD4	O2-C15-C16-O3

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Mol	Chain	Res	Type	Atoms
20	bk	104	0V9	C30-C31-C32-C33
15	bm	105	LMT	C6-C7-C8-C9
15	BN	102	LMT	O5B-C5B-C6B-O6B
15	BA	102	LMT	C2-C3-C4-C5
21	ae	101	CD4	C6-C7-C8-C9
21	ae	101	CD4	O3-C17-C18-C19
14	AL	101	BCL	C2A-CAA-CBA-CGA
14	BG	1004	BCL	C2A-CAA-CBA-CGA
14	BT	103	BCL	C2A-CAA-CBA-CGA
15	BE	103	LMT	C1-C2-C3-C4
25	L	1009	BPH	CHA-CBD-CGD-O1D
14	bc	102	BCL	CBA-CGA-O2A-C1
20	bh	103	0V9	C31-C30-O3-C3
15	AU	101	LMT	C5-C6-C7-C8
14	BJ	1002	BCL	CAA-CBA-CGA-O2A
20	bi	103	0V9	O2-C10-C11-C12
22	H1	103	PGW	O01-C1-C2-C3
16	be	101	V7N	C23-C24-C25-C26
15	bh	101	LMT	C9-C10-C11-C12
25	M	406	BPH	C11-C12-C13-C15
15	BP	1004	LMT	O5'-C1'-O1'-C1
14	ai	101	BCL	CAA-CBA-CGA-O2A
14	AP	102	BCL	C6-C7-C8-C9
14	BE	104	BCL	C6-C7-C8-C9
14	BM	1002	BCL	C11-C12-C13-C14
14	al	1001	BCL	C14-C13-C15-C16
14	ap	1001	BCL	C11-C12-C13-C14
14	bb	104	BCL	C14-C13-C15-C16
14	be	105	BCL	C11-C10-C8-C9
25	M	406	BPH	C11-C12-C13-C14
20	bp	103	0V9	C35-C36-C37-C38
15	L	1003	LMT	O5B-C1B-O1B-C4'
21	af	102	CD4	C17-C18-C19-C20
24	ag	1002	V7B	C28-C29-C30-C31
14	AK	101	BCL	CAA-CBA-CGA-O2A
15	L	1003	LMT	C2B-C1B-O1B-C4'
15	BU	1002	LMT	C6-C7-C8-C9
21	H1	102	CD4	C47-C46-O16-C33
16	BP	1001	V7N	C23-C24-C25-C26
15	BN	104	LMT	C5'-C4'-O1B-C1B
21	H1	102	CD4	C45-C63-C64-C65
14	AC	101	BCL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
16	bc	101	V7N	C37-C22-C23-C24
16	bl	102	V7N	C37-C22-C23-C24
15	ab	101	LMT	C4'-C5'-C6'-O6'
15	BT	104	LMT	C5'-C4'-O1B-C1B
20	bg	102	0V9	O4-C10-C11-C12
16	bb	101	V7N	C17-C18-C19-C20
16	bo	102	V7N	C25-C26-C27-C28
15	BG	1002	LMT	C5'-C4'-O1B-C1B
14	AI	103	BCL	CBA-CGA-O2A-C1
14	BH	1005	BCL	C8-C10-C11-C12
14	AJ	102	BCL	O1D-CGD-O2D-CED
14	AN	101	BCL	C1A-C2A-CAA-CBA
14	BA	103	BCL	C1A-C2A-CAA-CBA
14	BB	103	BCL	C1A-C2A-CAA-CBA
14	BH	1005	BCL	C1A-C2A-CAA-CBA
14	BK	1006	BCL	C1A-C2A-CAA-CBA
14	BT	103	BCL	C1A-C2A-CAA-CBA
14	BV	1005	BCL	C1A-C2A-CAA-CBA
14	aa	1001	BCL	C1A-C2A-CAA-CBA
14	ab	102	BCL	C1A-C2A-CAA-CBA
14	ad	1001	BCL	C1A-C2A-CAA-CBA
14	bd	102	BCL	C1A-C2A-CAA-CBA
14	bh	105	BCL	C1A-C2A-CAA-CBA
15	BA	102	LMT	O5B-C1B-O1B-C4'
20	bp	103	0V9	C36-C37-C38-C39
15	BG	1002	LMT	C6-C7-C8-C9
20	bg	102	0V9	C18-C19-C20-C21
14	AQ	101	BCL	CAA-CBA-CGA-O1A
14	BC	104	BCL	CAA-CBA-CGA-O1A
14	ae	102	BCL	CAA-CBA-CGA-O1A
15	BB	105	LMT	C3-C4-C5-C6
14	AV	103	BCL	C2A-CAA-CBA-CGA
14	ac	1001	BCL	C16-C17-C18-C20
15	AC	104	LMT	O5B-C1B-O1B-C4'
14	ad	1001	BCL	CAA-CBA-CGA-O1A
14	bc	102	BCL	O1A-CGA-O2A-C1
15	BX	1003	LMT	C5-C6-C7-C8
15	bm	103	LMT	C5'-C4'-O1B-C1B
14	AP	103	BCL	C4-C3-C5-C6
14	ak	1001	BCL	C13-C15-C16-C17
14	ba	103	BCL	C15-C16-C17-C18
14	ai	101	BCL	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
23	L	1001	MQ8	C32-C33-C35-C36
21	ae	101	CD4	C1-C2-C3-C4
15	L	1004	LMT	C2'-C1'-O1'-C1
15	bn	101	LMT	C2'-C1'-O1'-C1
15	BB	105	LMT	C5'-C4'-O1B-C1B
15	BN	105	LMT	C2-C3-C4-C5
18	C	405	V75	O5-C5-C6-O6A
18	C	405	V75	O5-C5-C6-O6B
20	aj	101	0V9	C1-O3P-P-O2P
20	aj	101	0V9	C4-O4P-P-O2P
20	bb	103	0V9	C1-O3P-P-O2P
20	bg	102	0V9	C4-O4P-P-O2P
20	bj	104	0V9	C4-O4P-P-O2P
20	bm	102	0V9	C4-O4P-P-O2P
20	bo	104	0V9	C4-O4P-P-O2P
21	ae	101	CD4	C31-O10-P2-O12
21	af	102	CD4	C32-O13-P2-O12
22	H1	103	PGW	C03-O11-P-O14
15	BK	1003	LMT	C4-C5-C6-C7
21	aj	102	CD4	C11-C10-C9-C8
16	ba	101	V7N	C22-C23-C24-C25
20	bb	103	0V9	C13-C14-C15-C16
15	bd	103	LMT	O5B-C5B-C6B-O6B
14	aj	103	BCL	CAA-CBA-CGA-O1A
22	H1	103	PGW	O02-C1-C2-C3
15	BN	101	LMT	C2B-C1B-O1B-C4'
15	BB	104	LMT	O5'-C5'-C6'-O6'
16	BM	1001	V7N	C26-C27-C28-C29
14	BA	103	BCL	C2A-CAA-CBA-CGA
14	BD	105	BCL	C2A-CAA-CBA-CGA
14	AL	101	BCL	CAA-CBA-CGA-O1A
20	bg	104	0V9	C33-C34-C35-C36
21	M	402	CD4	O16-C46-C47-C48
15	bm	105	LMT	C2-C3-C4-C5
14	AH	101	BCL	CAA-CBA-CGA-O1A
23	M	407	MQ8	C39-C38-C40-C41
16	BO	1001	V7N	C23-C24-C25-C26
15	bh	101	LMT	C1-C2-C3-C4
15	AJ	104	LMT	C11-C10-C9-C8
15	BG	1005	LMT	C9-C10-C11-C12
14	AB	1001	BCL	CAD-CBD-CGD-O1D
14	AE	1004	BCL	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
14	AN	102	BCL	CAD-CBD-CGD-O1D
14	AS	102	BCL	CAD-CBD-CGD-O1D
14	BF	102	BCL	CAD-CBD-CGD-O1D
14	BH	1005	BCL	CAD-CBD-CGD-O1D
14	BI	1003	BCL	CAD-CBD-CGD-O1D
14	BL	1003	BCL	CAD-CBD-CGD-O1D
14	BN	103	BCL	CAD-CBD-CGD-O1D
14	BU	1004	BCL	CAD-CBD-CGD-O1D
14	BX	1002	BCL	CAD-CBD-CGD-O1D
14	M	405	BCL	CAD-CBD-CGD-O1D
20	bm	102	0V9	C5-C4-O4P-P
21	H1	102	CD4	C28-C15-O2-C14
22	H1	103	PGW	C01-C02-O01-C1
14	AX	102	BCL	CAA-CBA-CGA-O1A
21	af	102	CD4	C12-C13-C14-O1
15	BK	1002	LMT	C5'-C4'-O1B-C1B
14	BU	1004	BCL	CAA-CBA-CGA-O2A
14	an	1001	BCL	CAA-CBA-CGA-O2A
14	AP	103	BCL	C8-C10-C11-C12
25	L	1009	BPH	C8-C10-C11-C12
14	AG	101	BCL	C6-C7-C8-C9
14	AS	102	BCL	C14-C13-C15-C16
14	BV	1005	BCL	C14-C13-C15-C16
14	BX	1002	BCL	C11-C12-C13-C14
14	ai	101	BCL	C11-C12-C13-C14
21	af	102	CD4	C51-C52-C53-C54
15	BI	1006	LMT	C4B-C5B-C6B-O6B
15	BP	1003	LMT	C3'-C4'-O1B-C1B
14	be	105	BCL	C8-C10-C11-C12
21	H1	102	CD4	C12-C13-C14-O1
15	BW	1005	LMT	C6-C7-C8-C9
14	ac	1001	BCL	CAA-CBA-CGA-O2A
20	C1	1001	0V9	O3-C30-C31-C32
20	bg	102	0V9	O3-C30-C31-C32
21	af	102	CD4	C12-C13-C14-O2
14	BV	1005	BCL	C5-C6-C7-C8
14	ak	1001	BCL	C5-C6-C7-C8
16	bi	101	V7N	C1-C2-C3-C4
16	bj	101	V7N	C1-C2-C3-C4
15	bc	104	LMT	O5B-C1B-O1B-C4'
14	AI	103	BCL	CAA-CBA-CGA-O1A
20	be	102	0V9	C40-C41-C42-C43

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Mol	Chain	Res	Type	Atoms
15	BH	1004	LMT	C3-C4-C5-C6
20	be	102	0V9	O2-C10-C11-C12
21	M	402	CD4	O14-C35-C36-C37
23	ao	101	MQ8	C44-C46-C47-C48
14	BB	103	BCL	C15-C16-C17-C18
15	bl	101	LMT	C11-C10-C9-C8
28	ai	102	UYH	C21-C22-C23-C24
22	H1	103	PGW	C1-C2-C3-C4
14	aj	103	BCL	C4-C3-C5-C6
14	AD	102	BCL	C10-C11-C12-C13
14	BC	104	BCL	C5-C6-C7-C8
15	BF	101	LMT	C5'-C4'-O1B-C1B
24	ag	1002	V7B	C32-C33-C34-C35
14	AB	1001	BCL	C6-C7-C8-C10
14	AE	1004	BCL	C3A-C2A-CAA-CBA
14	AE	1004	BCL	C6-C7-C8-C10
14	AQ	101	BCL	C6-C7-C8-C10
14	AS	102	BCL	C3A-C2A-CAA-CBA
14	AS	102	BCL	C12-C13-C15-C16
14	BC	104	BCL	C11-C10-C8-C7
14	BE	104	BCL	C6-C7-C8-C10
14	BQ	1003	BCL	C11-C10-C8-C7
14	am	1001	BCL	C6-C7-C8-C10
14	be	105	BCL	C11-C10-C8-C7
14	bk	102	BCL	C12-C13-C15-C16
14	bn	103	BCL	C11-C12-C13-C15
14	bp	102	BCL	C11-C10-C8-C7
20	C1	1001	0V9	O5-C30-C31-C32
14	AH	101	BCL	CAA-CBA-CGA-O2A
14	AI	103	BCL	CAA-CBA-CGA-O2A
24	ag	1002	V7B	O8-C28-C29-C30
16	BC	101	V7N	C3-C4-C5-C6
16	BG	1001	V7N	C3-C4-C5-C6
16	BS	1001	V7N	C3-C4-C5-C6
20	bl	103	0V9	O5-C30-C31-C32
21	aj	102	CD4	C12-C13-C14-O1
15	BA	102	LMT	C9-C10-C11-C12
21	ae	101	CD4	C27-C60-C61-C62
15	BN	105	LMT	C2-C1-O1'-C1'
15	BT	102	LMT	C2-C1-O1'-C1'
15	L	1007	LMT	C2-C1-O1'-C1'
15	bm	105	LMT	C2-C1-O1'-C1'

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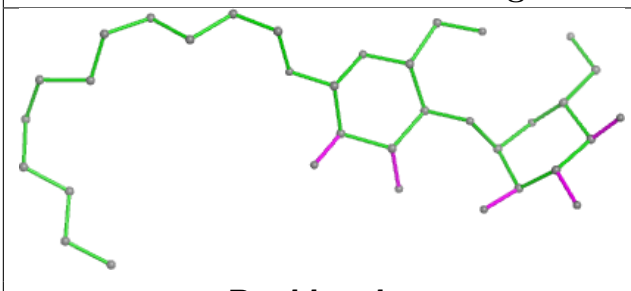
Mol	Chain	Res	Type	Atoms
14	ae	102	BCL	CAA-CBA-CGA-O2A
15	BK	1005	LMT	C5'-C4'-O1B-C1B
15	be	104	LMT	O5'-C1'-O1'-C1
14	AL	103	BCL	C5-C6-C7-C8
14	BP	1005	BCL	C5-C6-C7-C8
21	M	402	CD4	O15-C35-C36-C37
16	BM	1001	V7N	C22-C23-C24-C25
14	bf	103	BCL	C8-C10-C11-C12
15	BR	1002	LMT	C2B-C1B-O1B-C4'
21	H1	102	CD4	C39-C40-C41-C42
14	AJ	102	BCL	C15-C16-C17-C18
14	AK	101	BCL	CAA-CBA-CGA-O1A
14	ac	1001	BCL	CAA-CBA-CGA-O1A
14	aa	1001	BCL	C2A-CAA-CBA-CGA
17	C	403	HEC	CAA-CBA-CGA-O1A
14	AR	101	BCL	C10-C11-C12-C13
15	BD	103	LMT	C4-C5-C6-C7

There are no ring outliers.

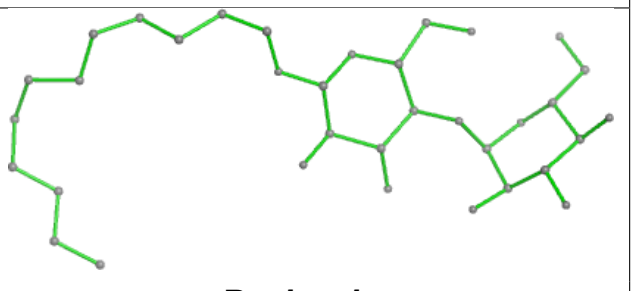
No monomer is involved in short contacts.

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

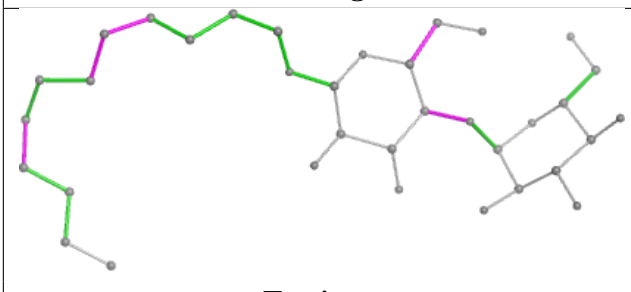
Ligand LMT BN 104



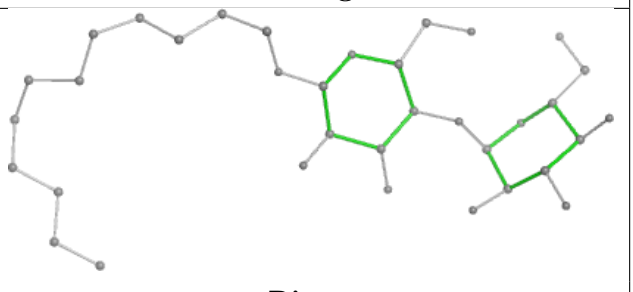
Bond lengths



Bond angles

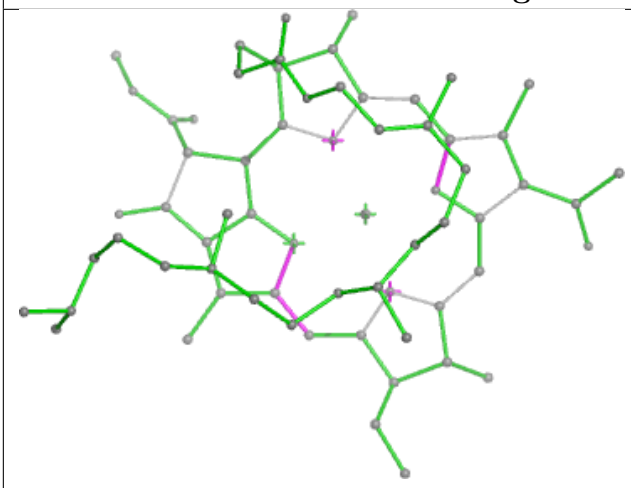


Torsions

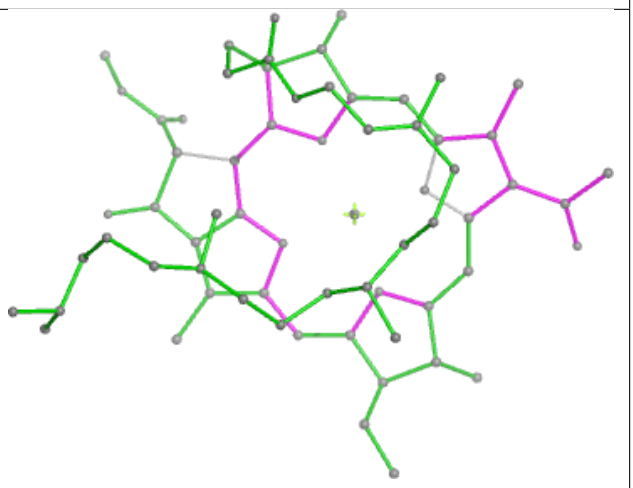


Rings

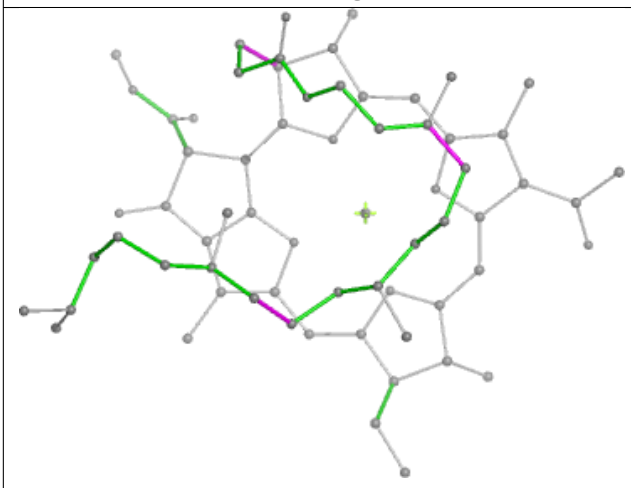
Ligand BCL AV 101



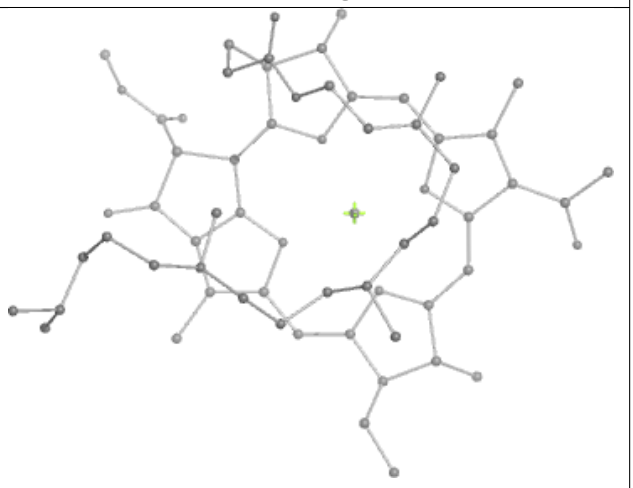
Bond lengths



Bond angles

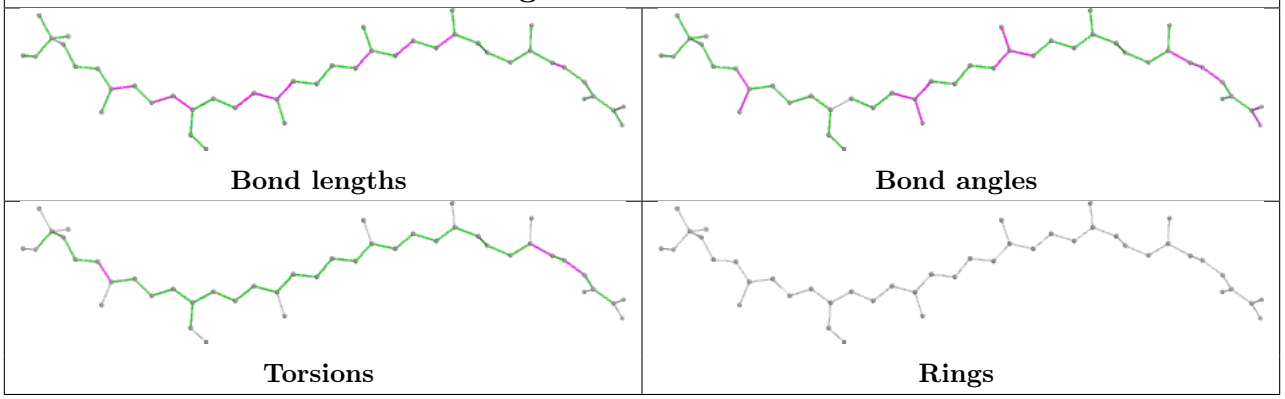


Torsions

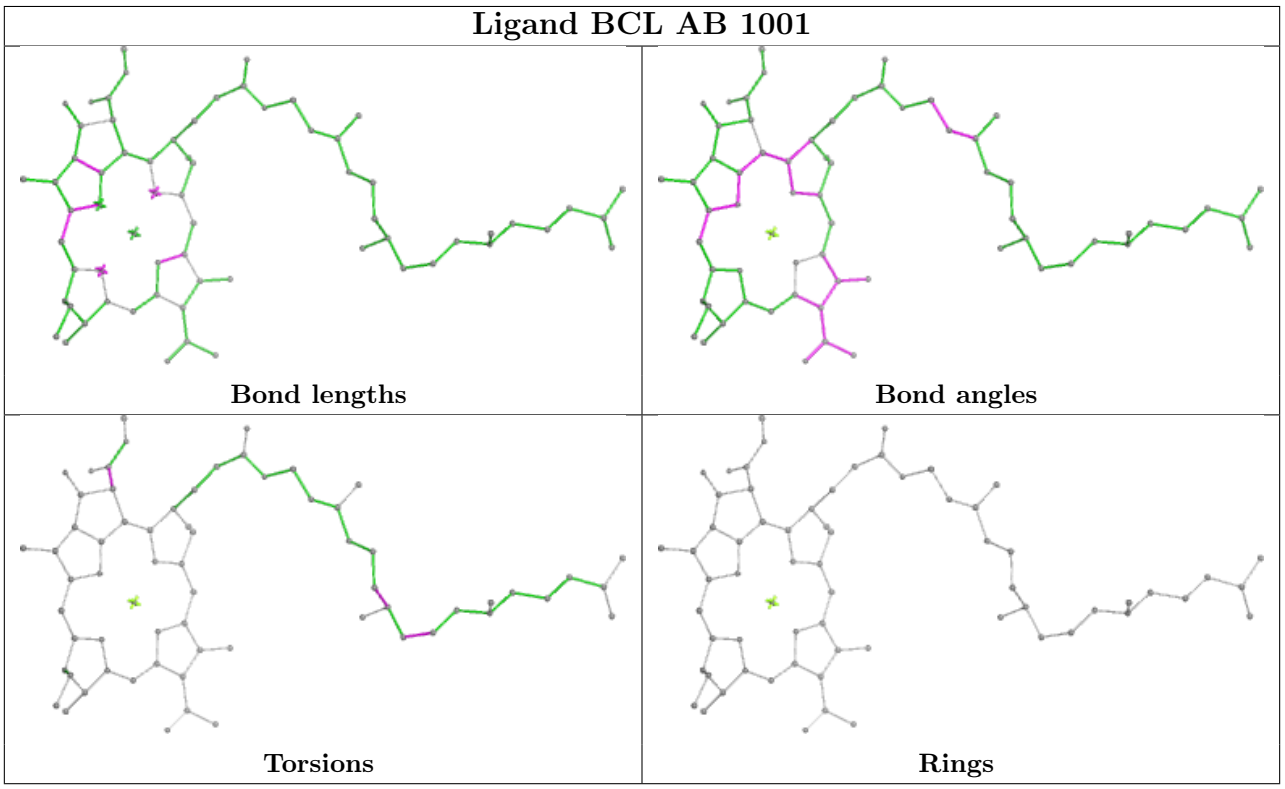


Rings

Ligand V7N bh 102



Ligand BCL AB 1001



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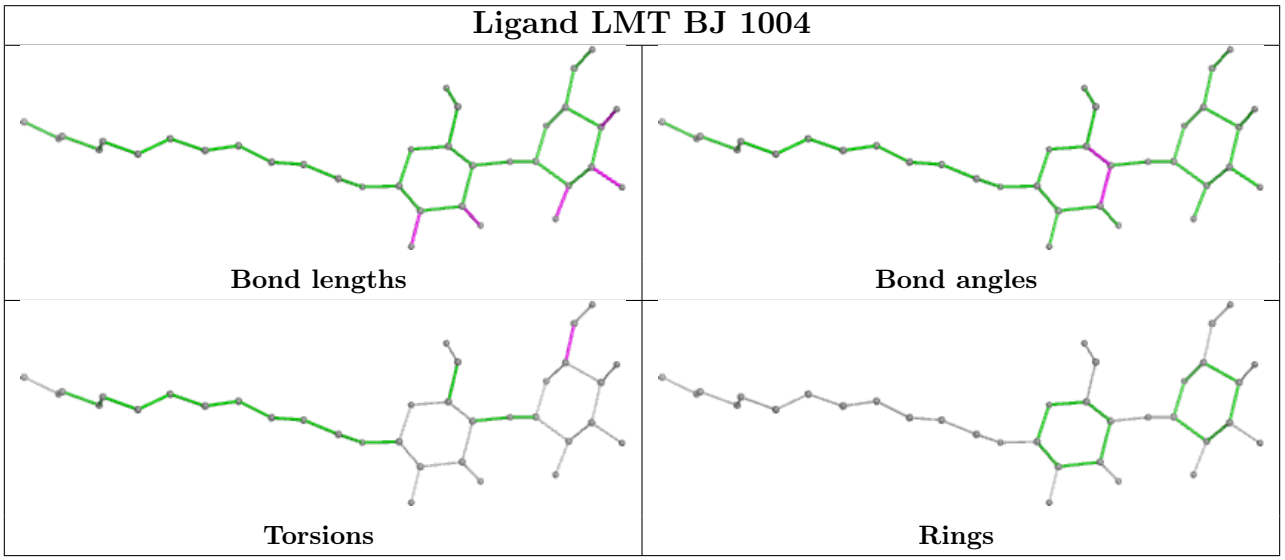
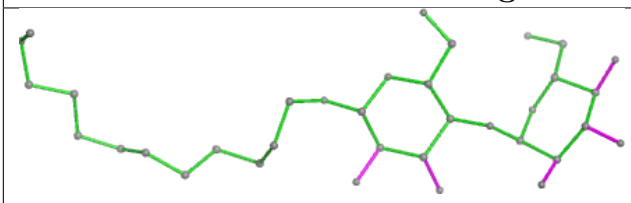
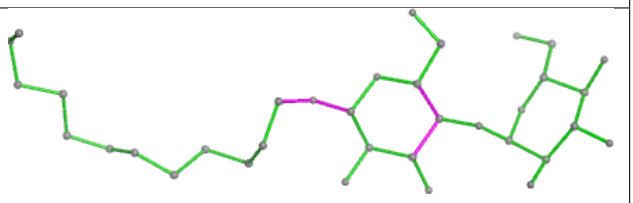


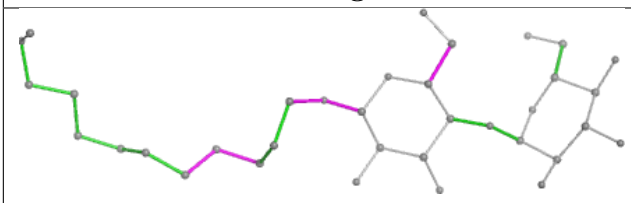
Ligand LMT BH 1003



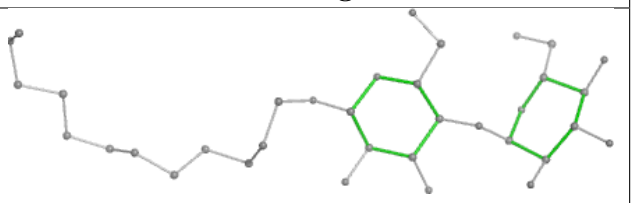
Bond lengths



Bond angles

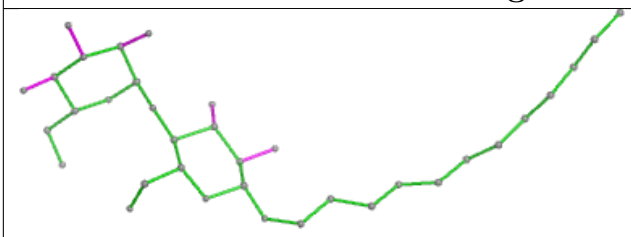


Torsions

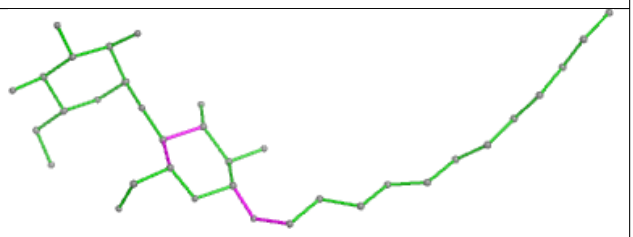


Rings

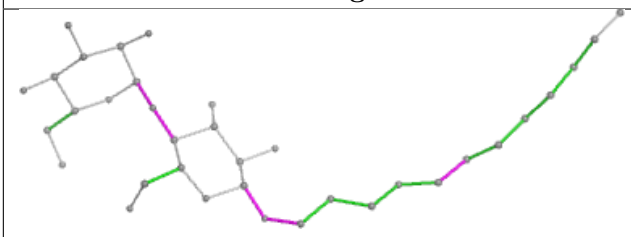
Ligand LMT BD 103



Bond lengths



Bond angles



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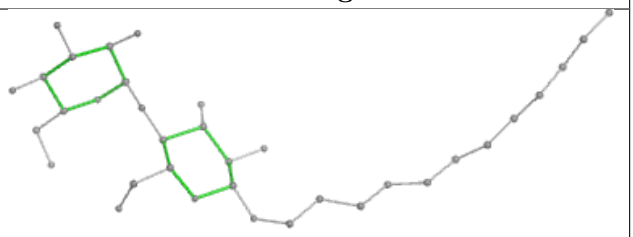
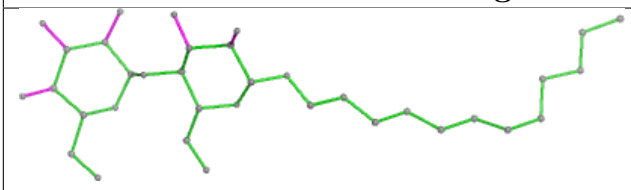
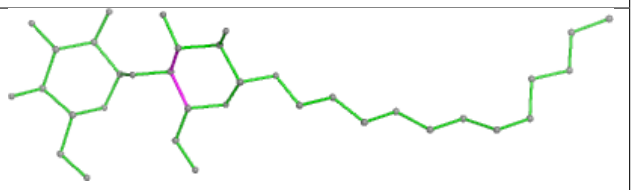


Rings

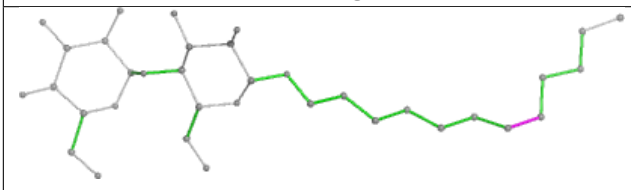
Ligand LMT BW 1005



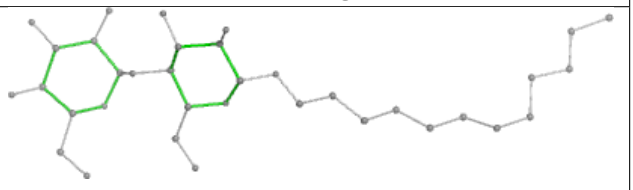
Bond lengths



Bond angles

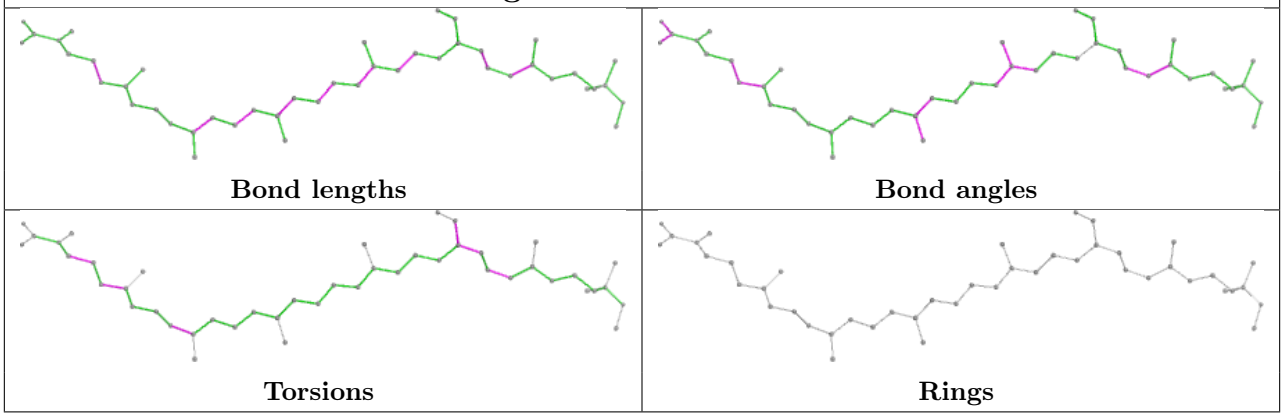


Torsions

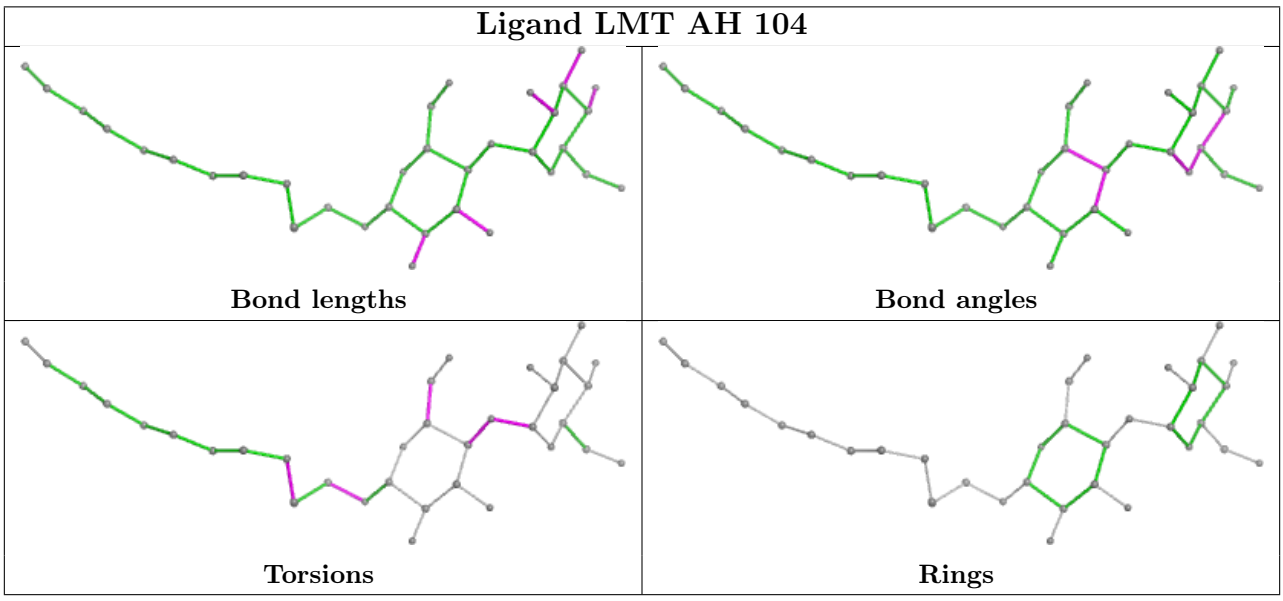


Rings

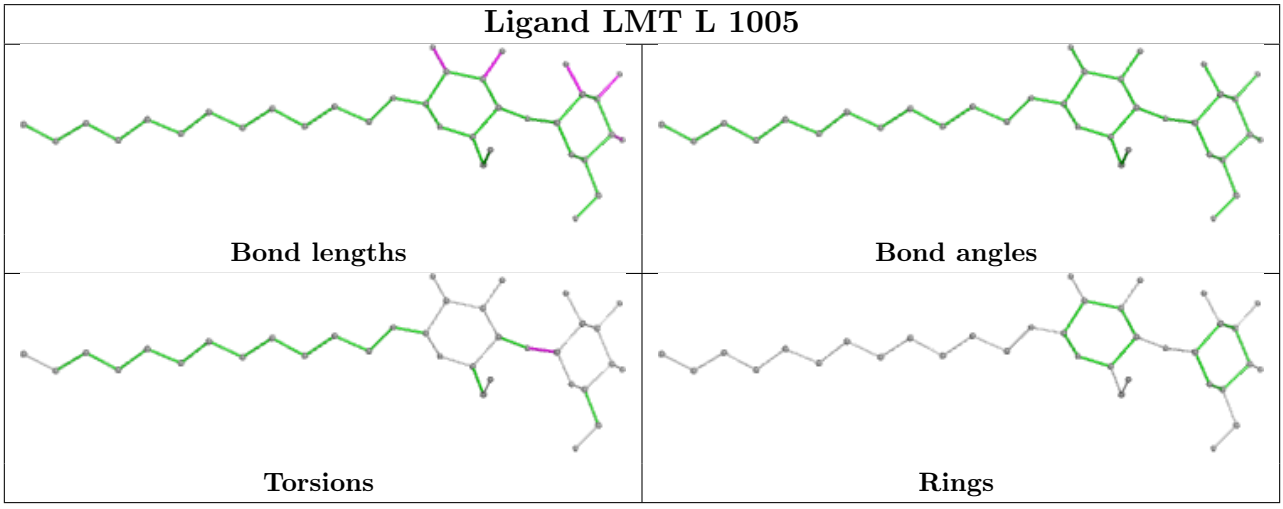
Ligand V7N BU 1001



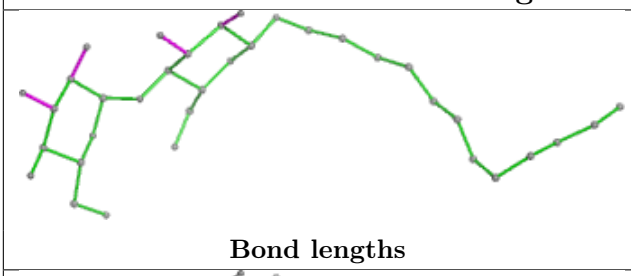
Ligand LMT AH 104



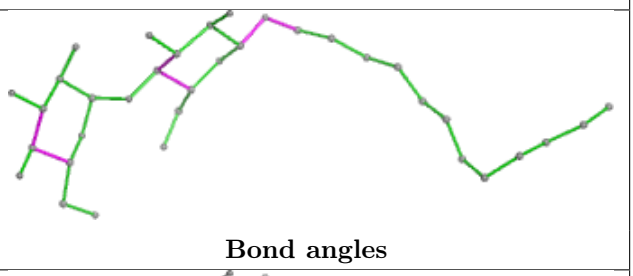
Ligand LMT L 1005



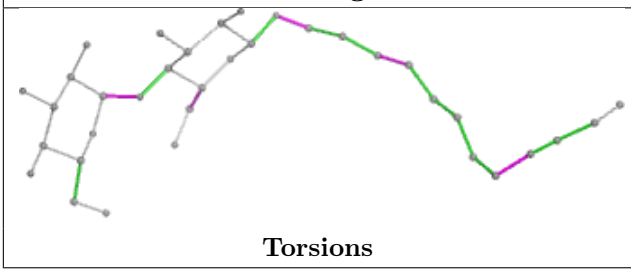
Ligand LMT bc 104



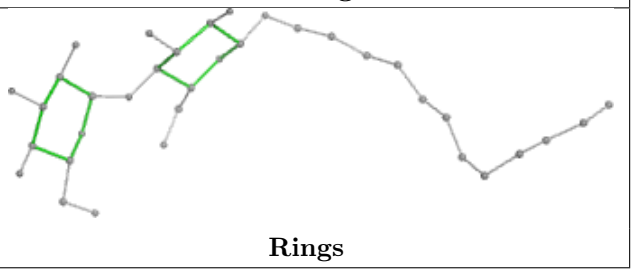
Bond lengths



Bond angles

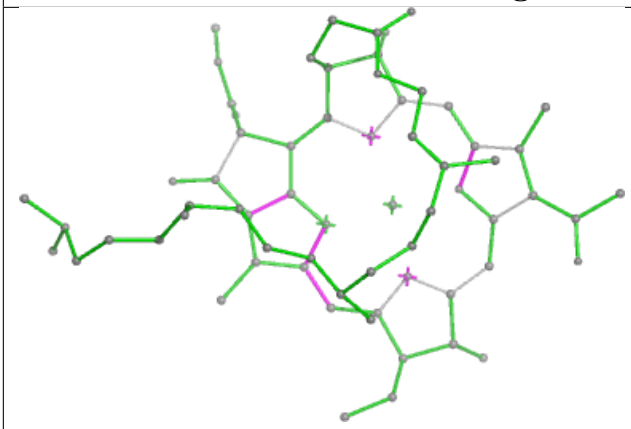


Torsions

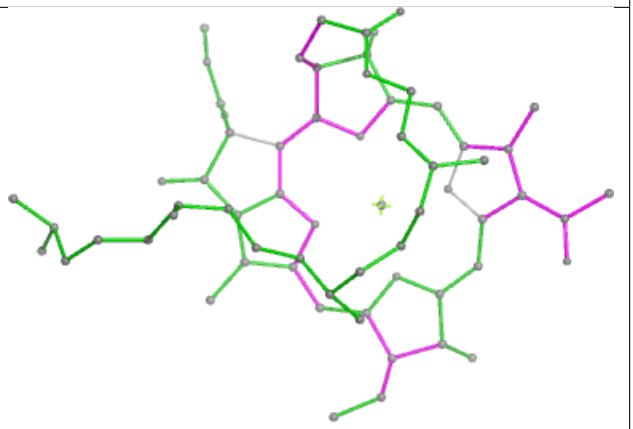


Rings

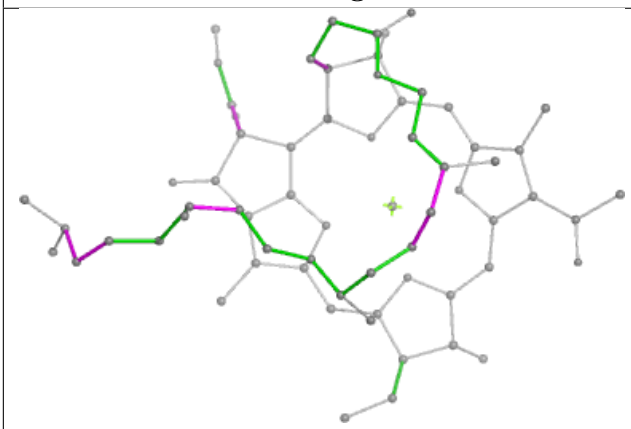
Ligand BCL AC 101



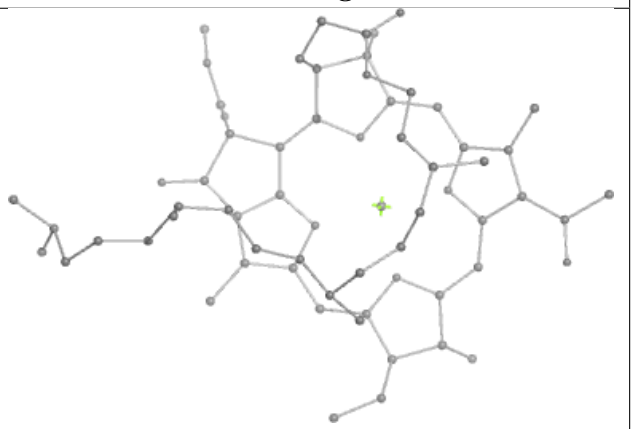
Bond lengths



Bond angles

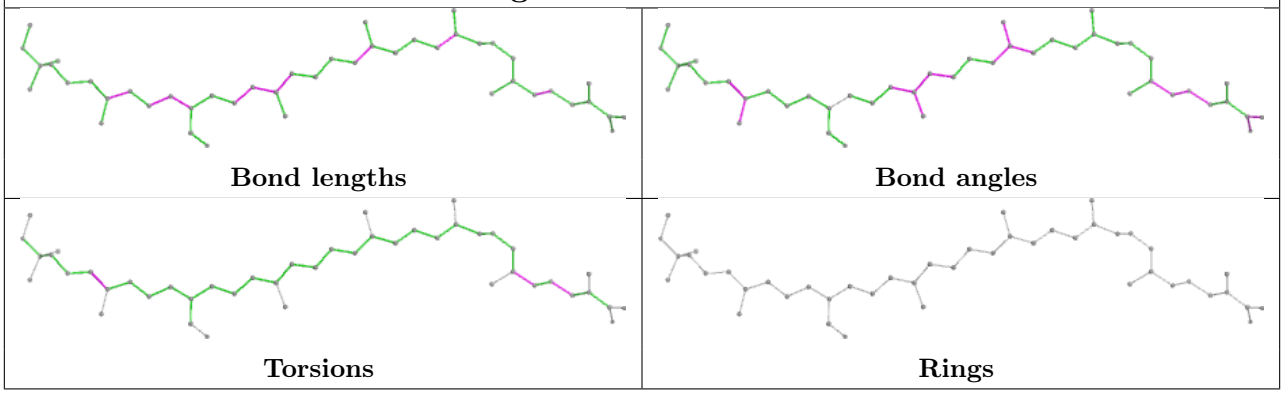


Torsions

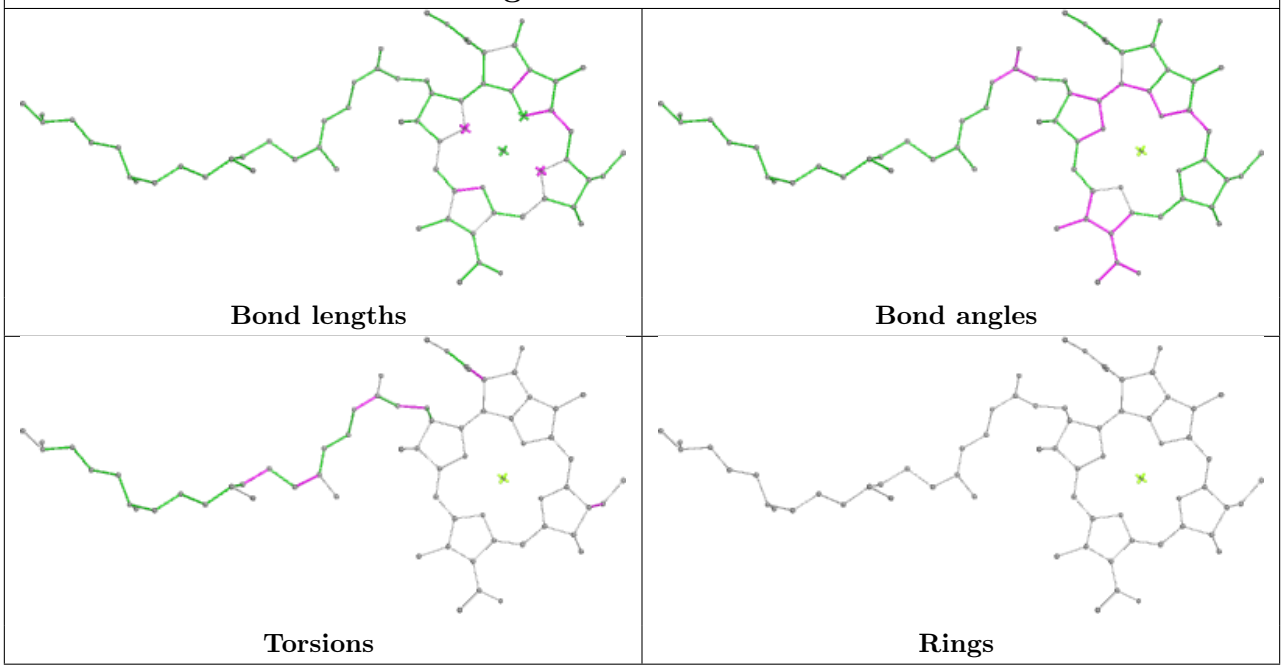


Rings

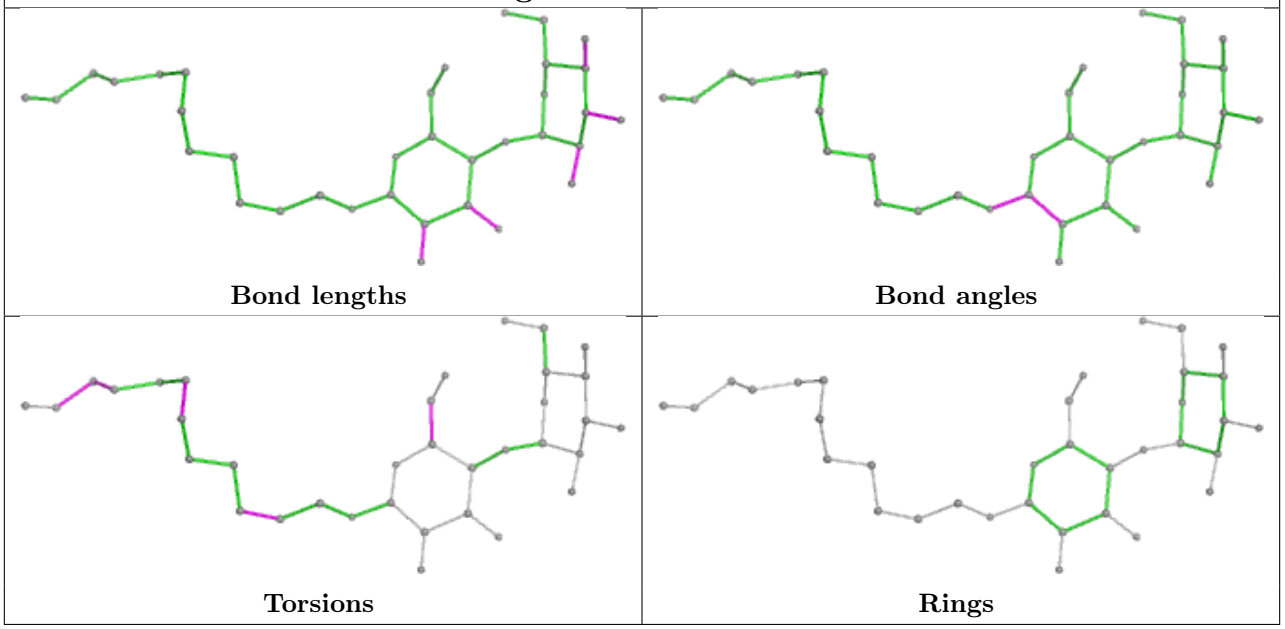
Ligand V7N BI 1001



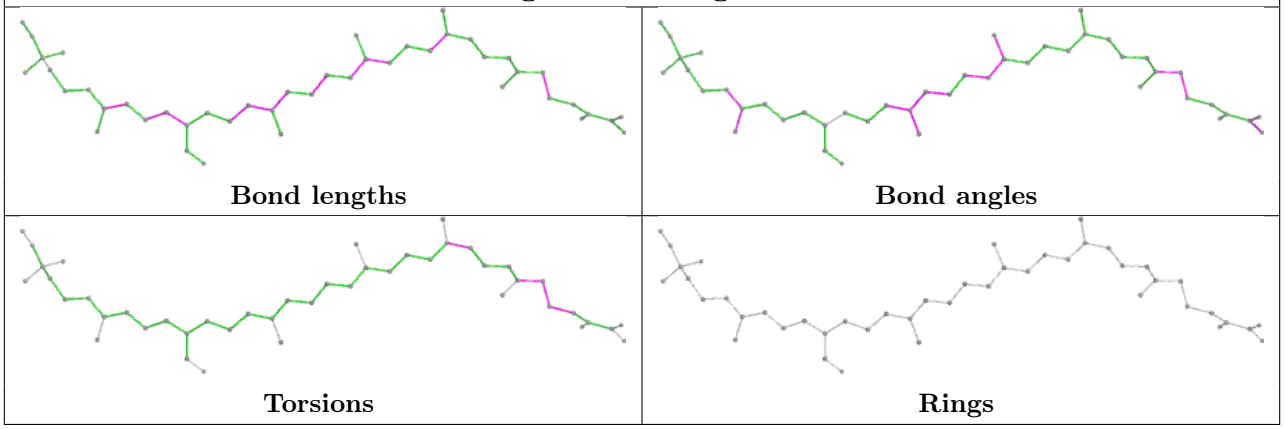
Ligand BCL BO 1004



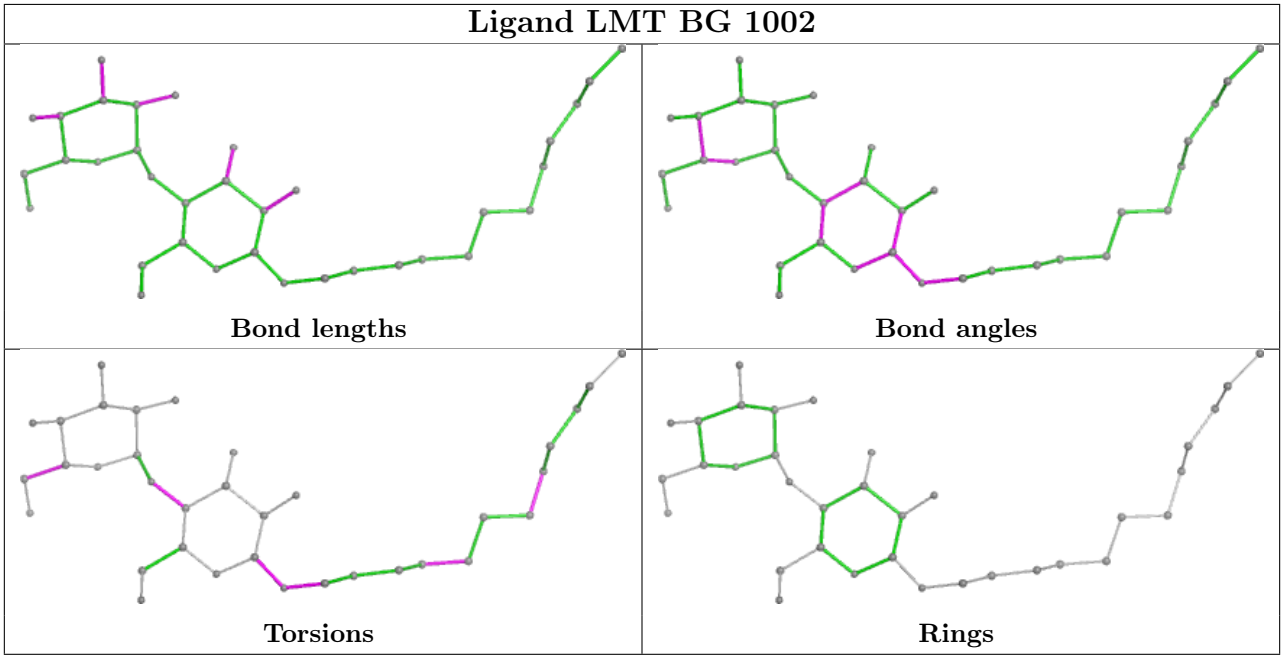
Ligand LMT bh 101



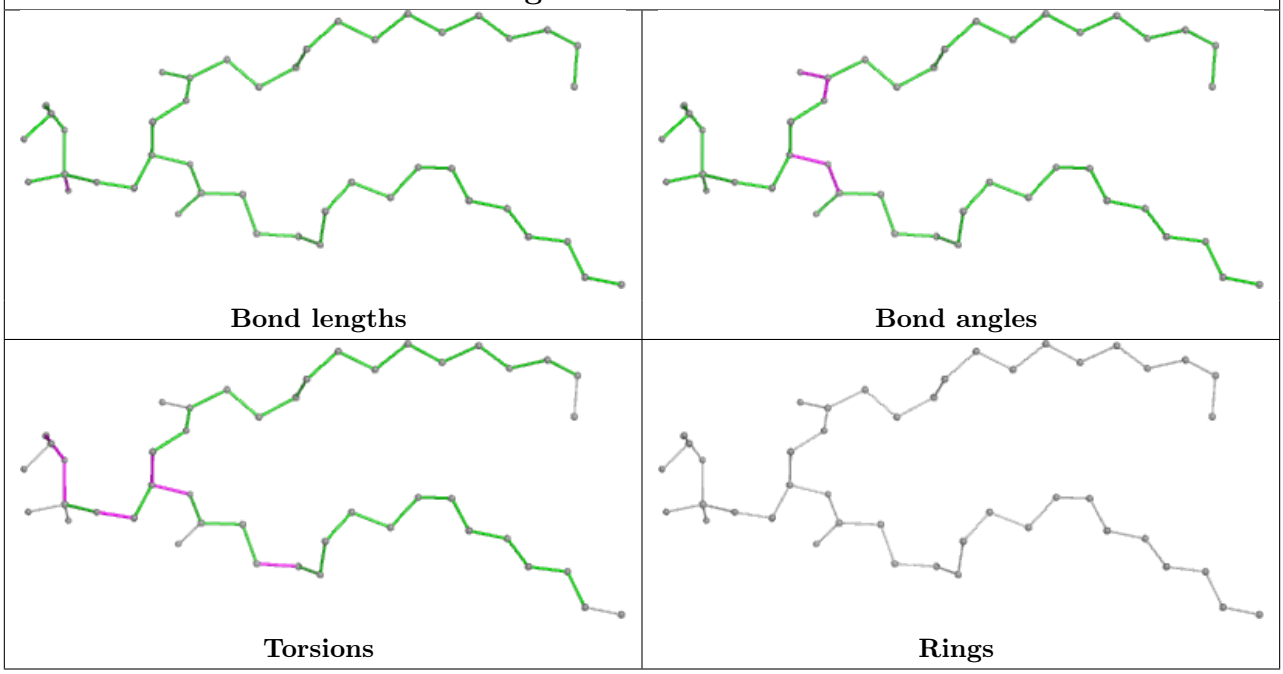
Ligand V7N bg 101



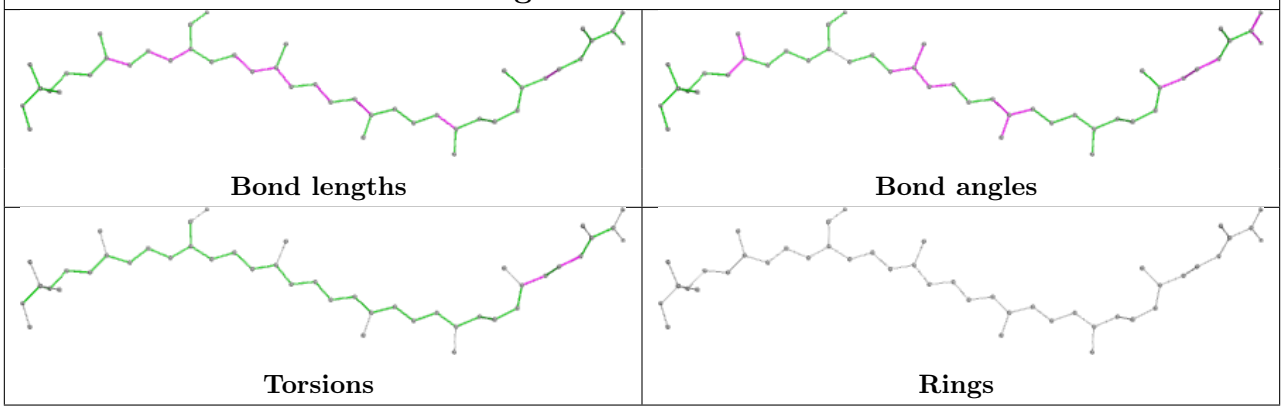
Ligand LMT BG 1002



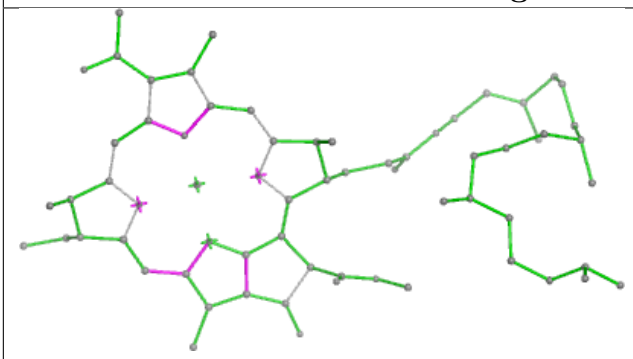
Ligand 0V9 bo 104



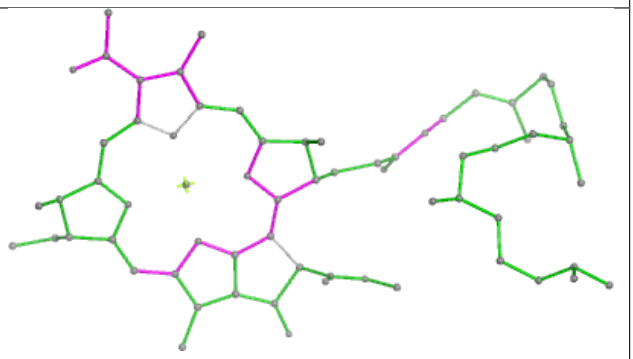
Ligand V7N BE 101



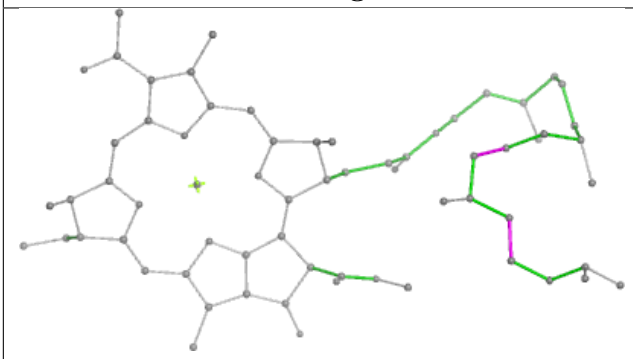
Ligand BCL ah 1001



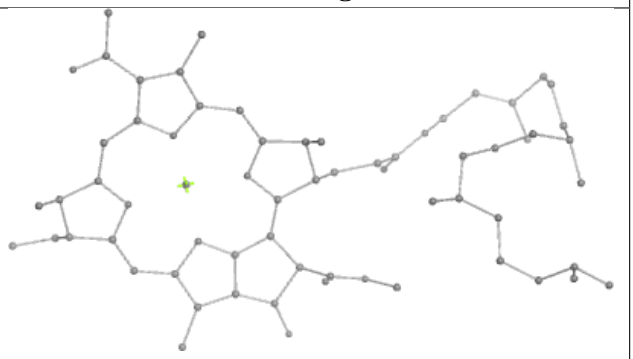
Bond lengths



Bond angles

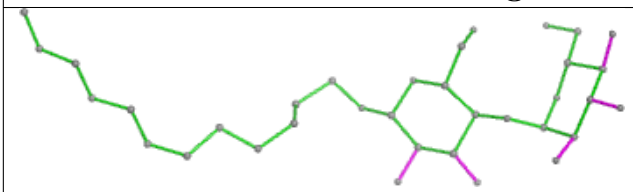


Torsions

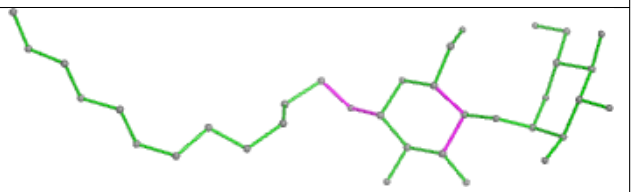


Rings

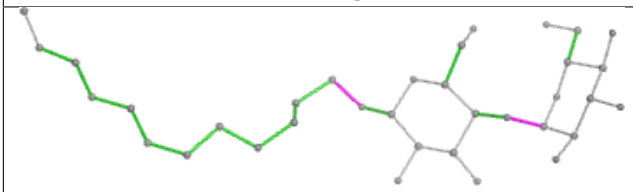
Ligand LMT BI 1002



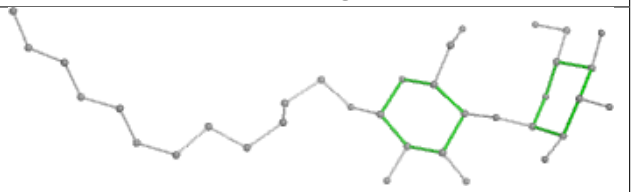
Bond lengths



Bond angles

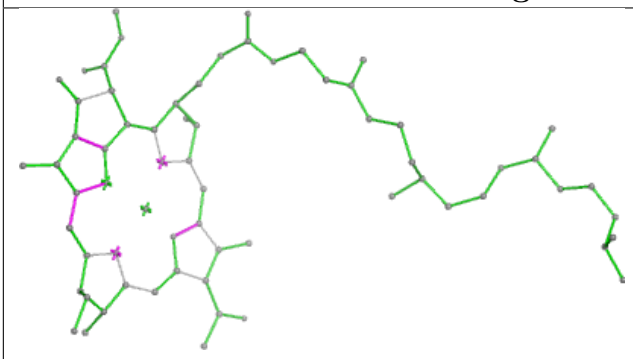


Torsions

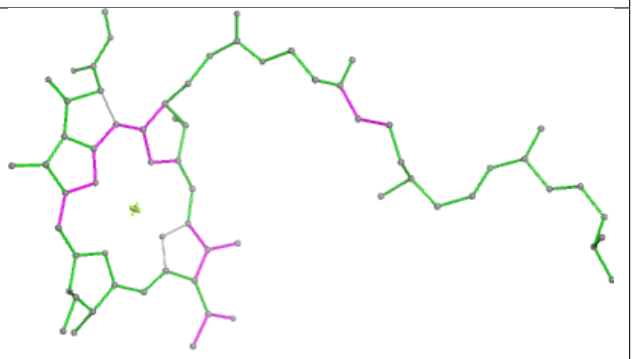


Rings

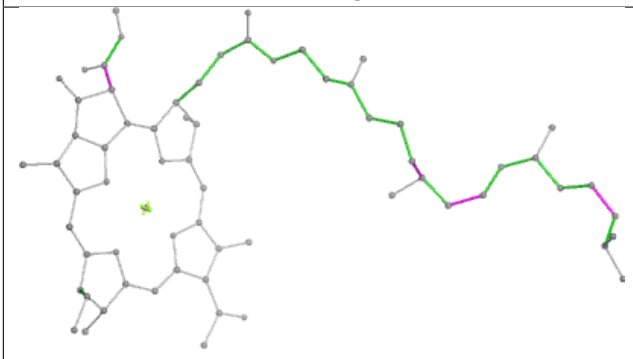
Ligand BCL AP 102



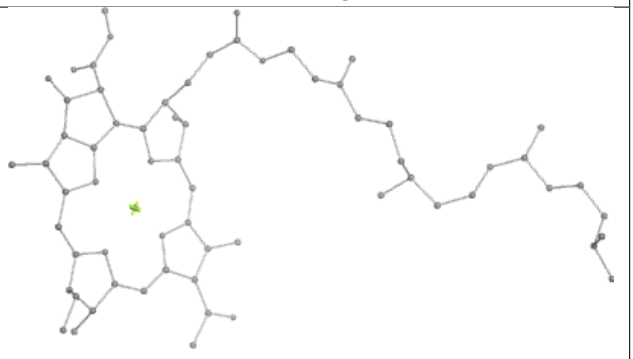
Bond lengths



Bond angles

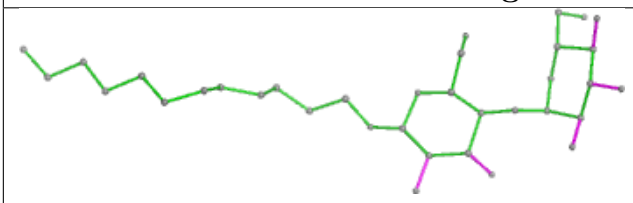


Torsions

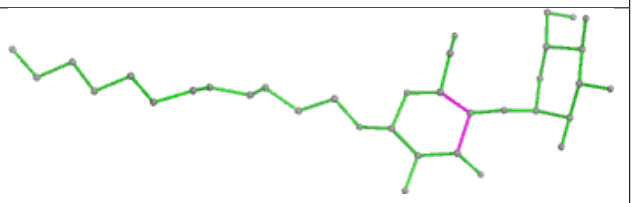


Rings

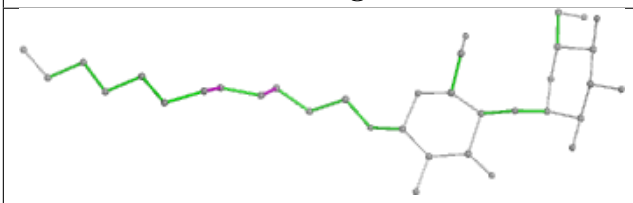
Ligand LMT BL 1005



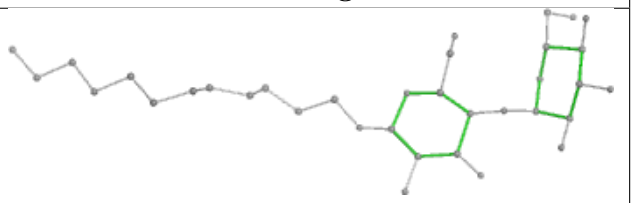
Bond lengths



Bond angles

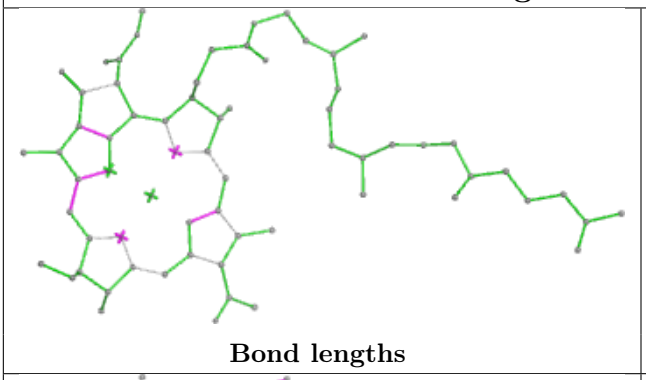


Torsions

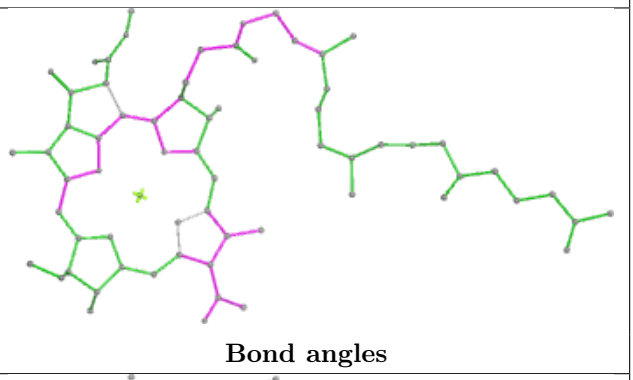


Rings

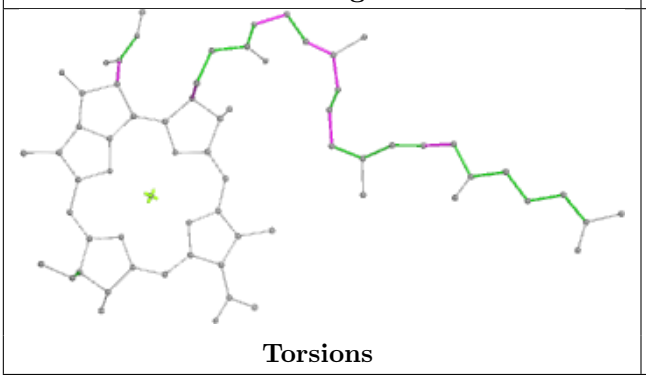
Ligand BCL BF 102



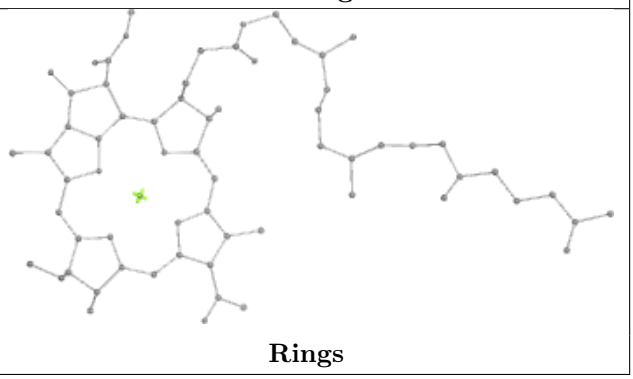
Bond lengths



Bond angles

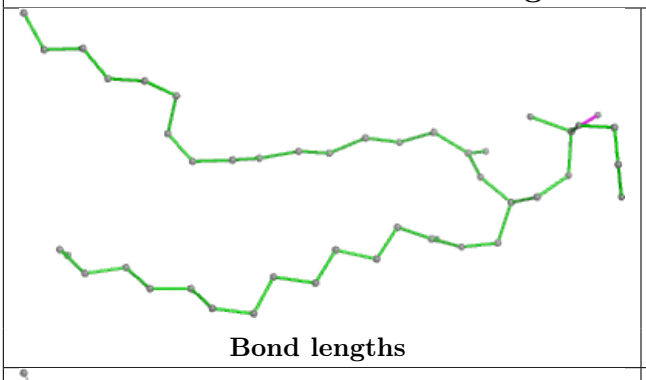


Torsions

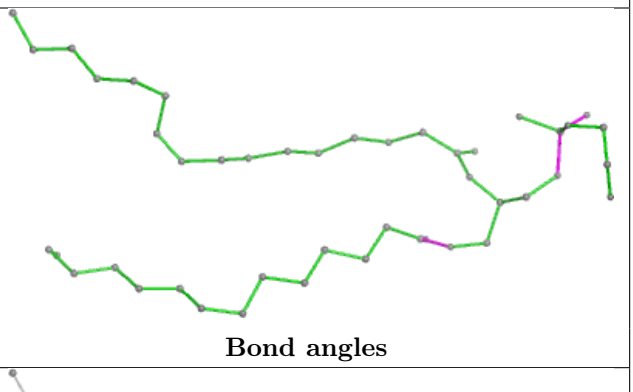


Rings

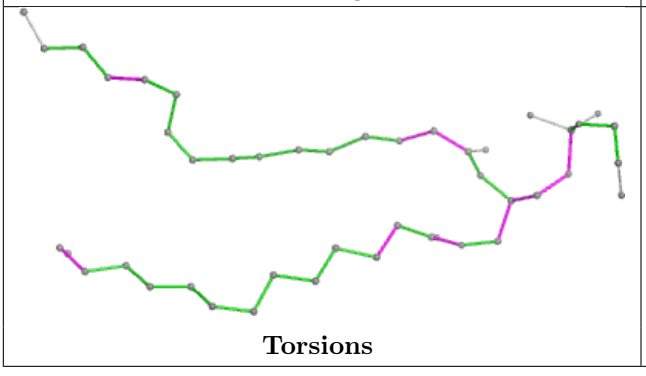
Ligand 0V9 be 102



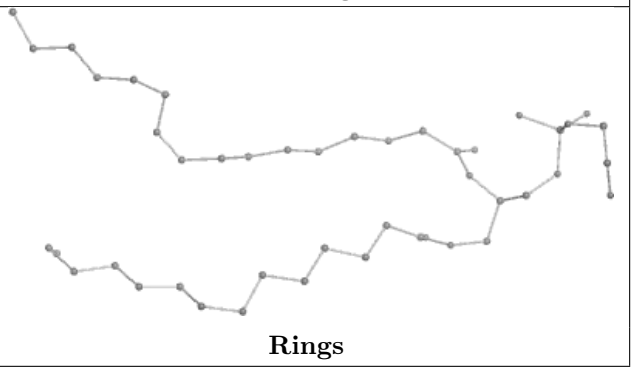
Bond lengths



Bond angles

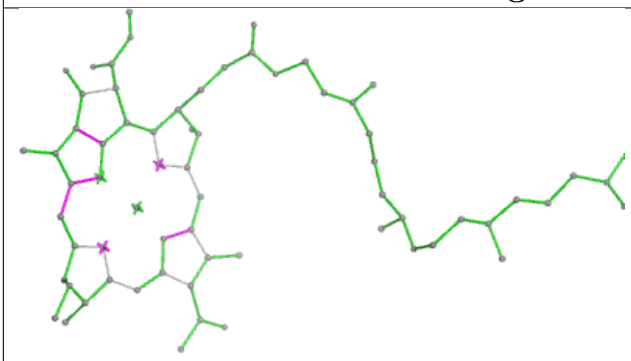


Torsions

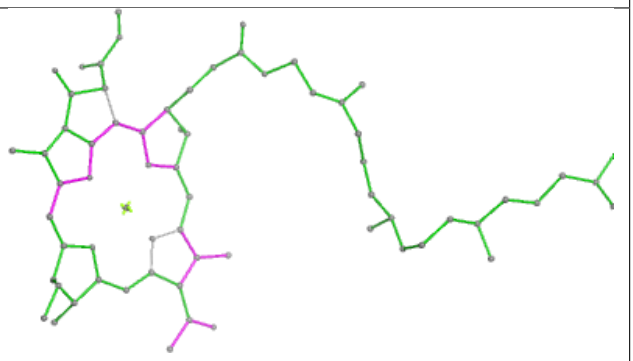


Rings

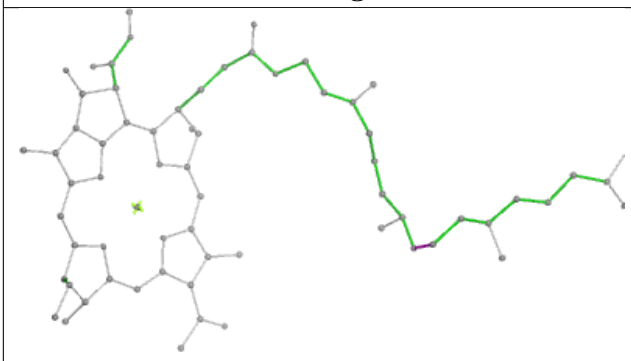
Ligand BCL AW 101



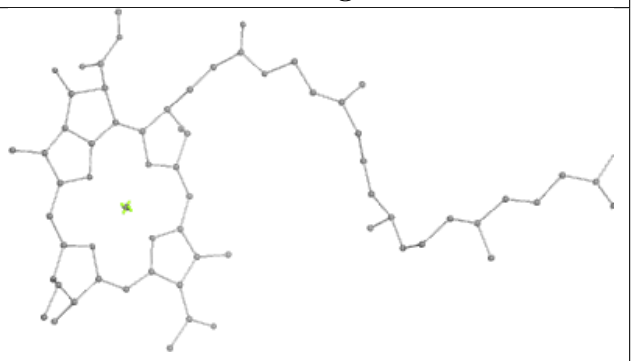
Bond lengths



Bond angles

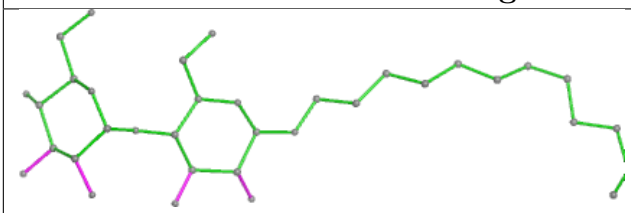


Torsions

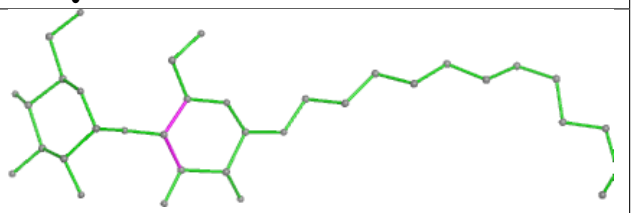


Rings

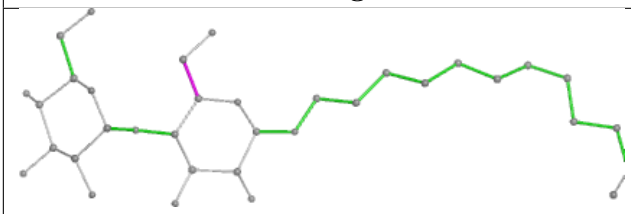
Ligand LMT BQ 1005



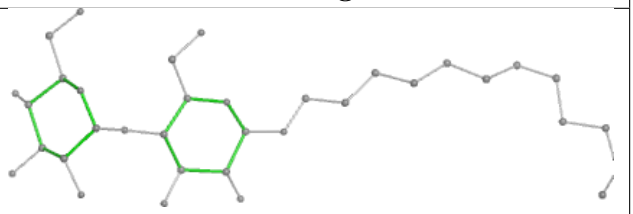
Bond lengths



Bond angles

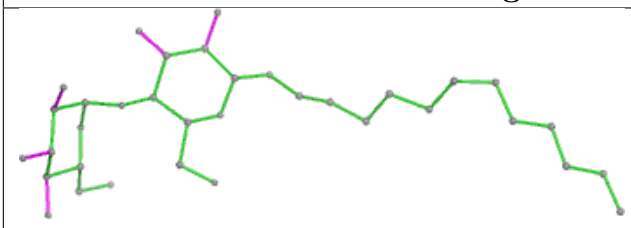


Torsions

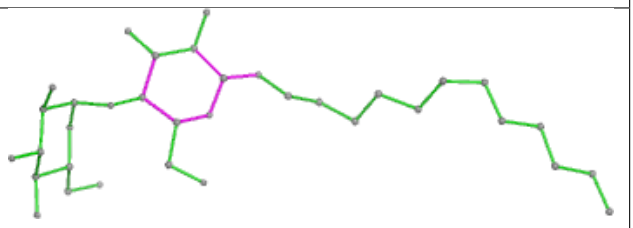


Rings

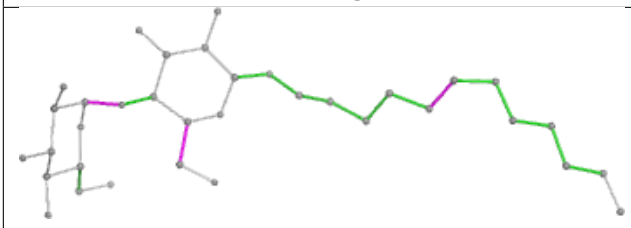
Ligand LMT BS 1005



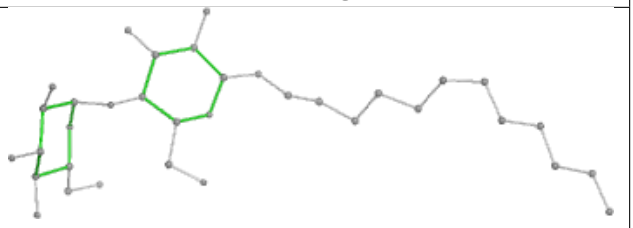
Bond lengths



Bond angles

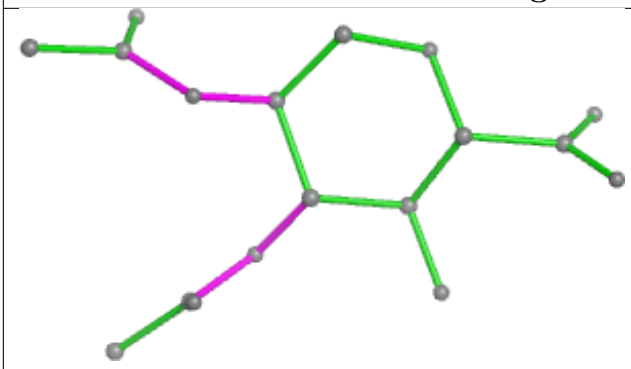


Torsions

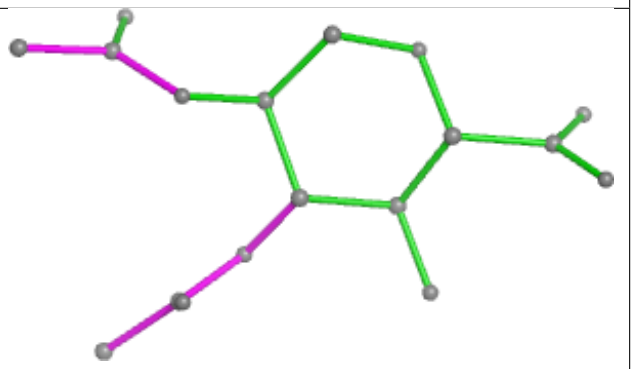


Rings

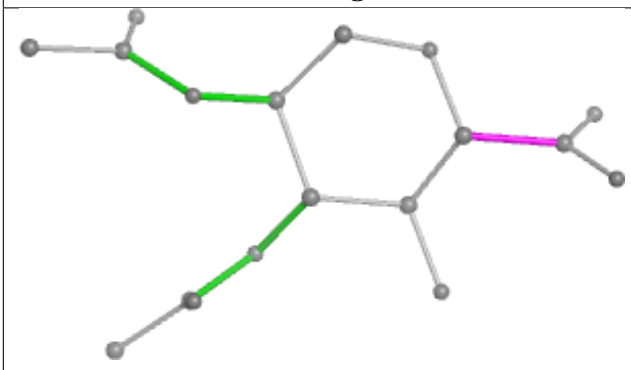
Ligand V75 C 405



Bond lengths



Bond angles



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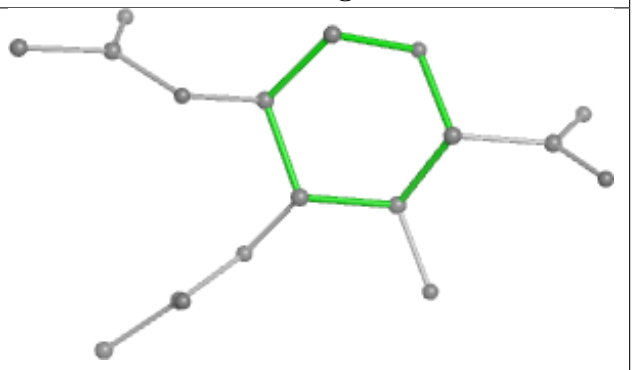
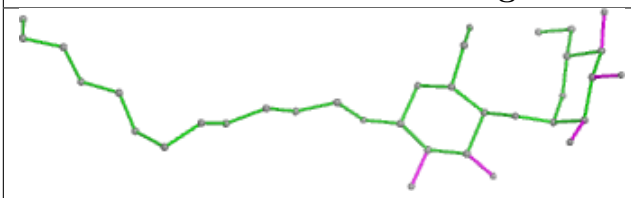
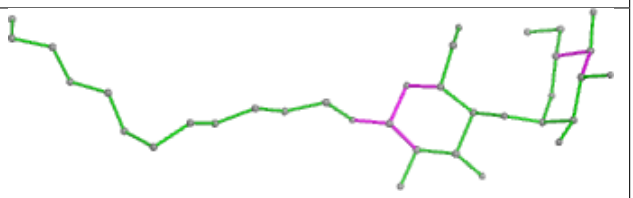


Rings

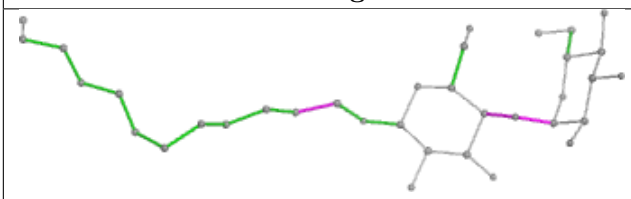
Ligand LMT BK 1002



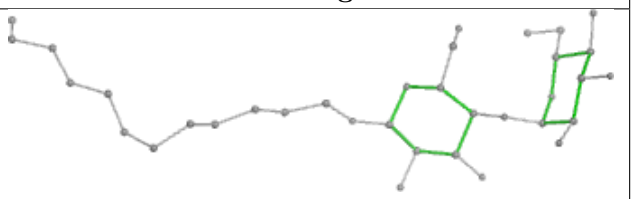
Bond lengths



Bond angles

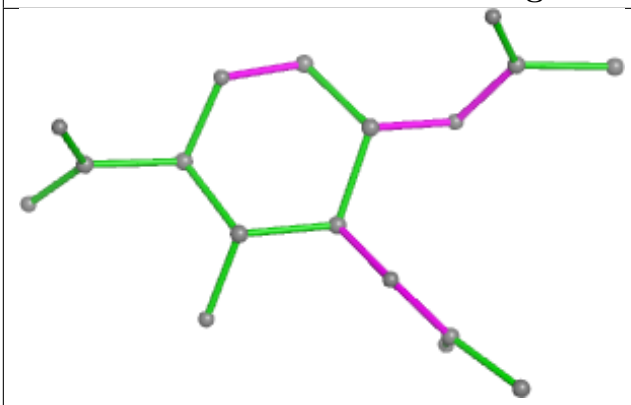


Torsions



Rings

Ligand V75 M 409



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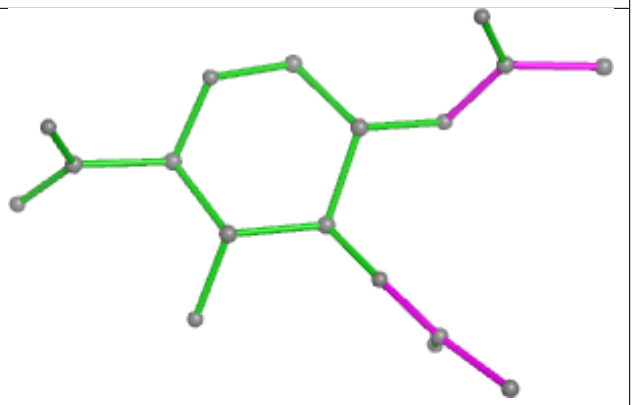

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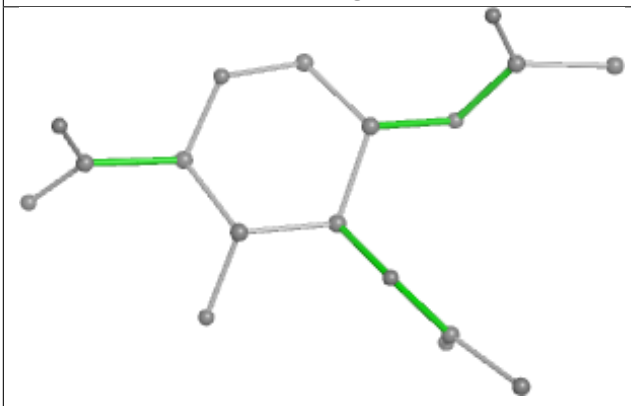
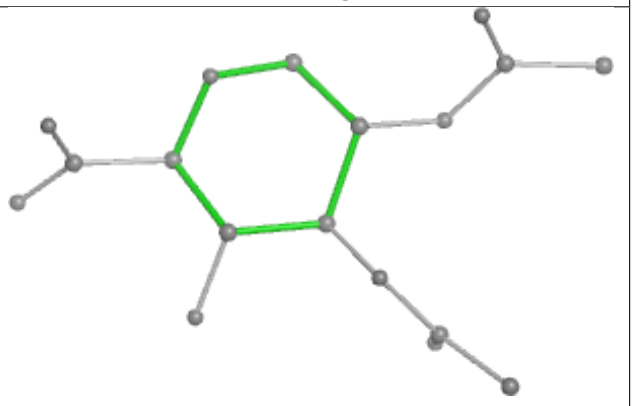
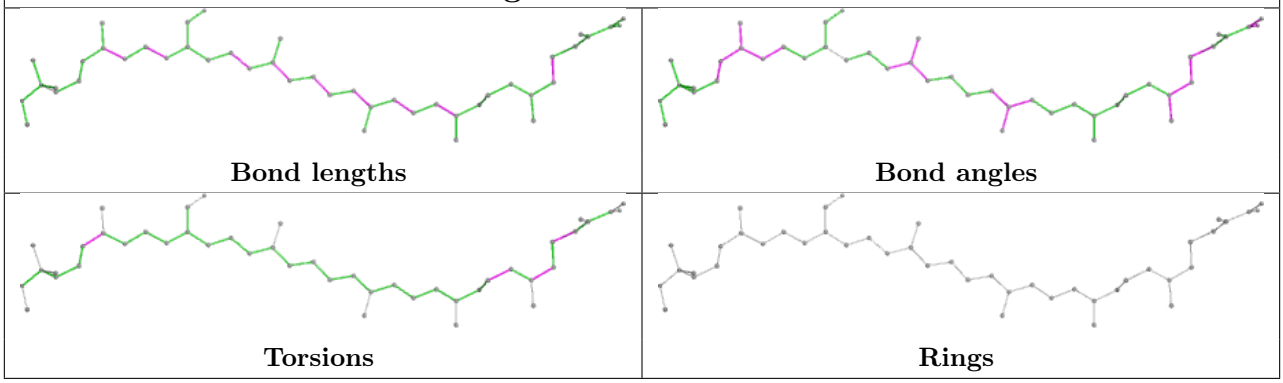


Torsions

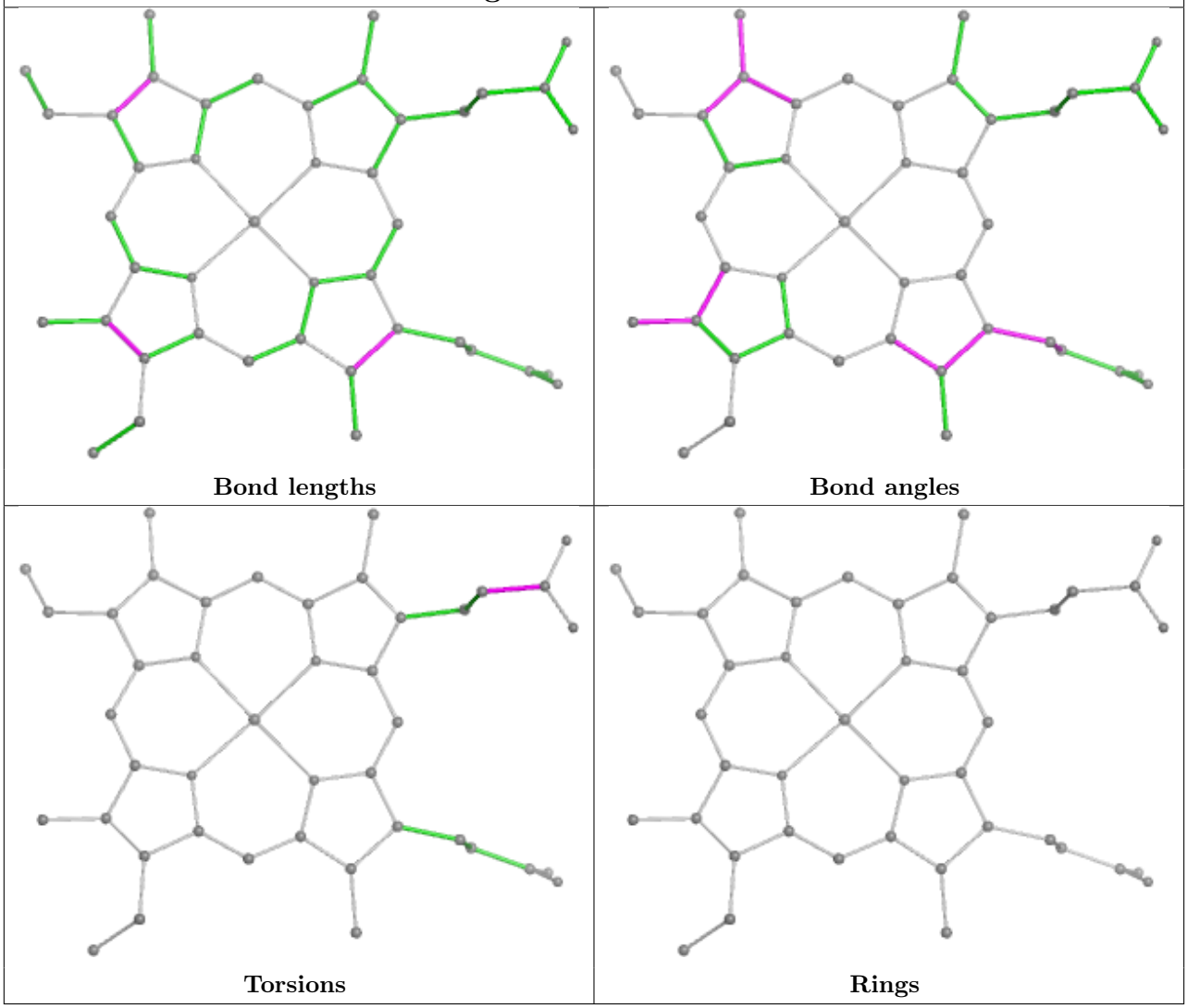


Rings

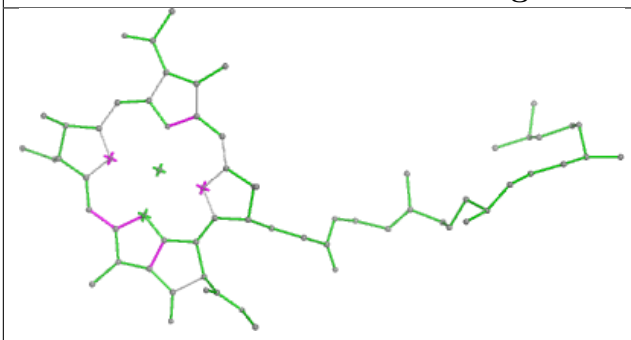
Ligand V7N BO 1001



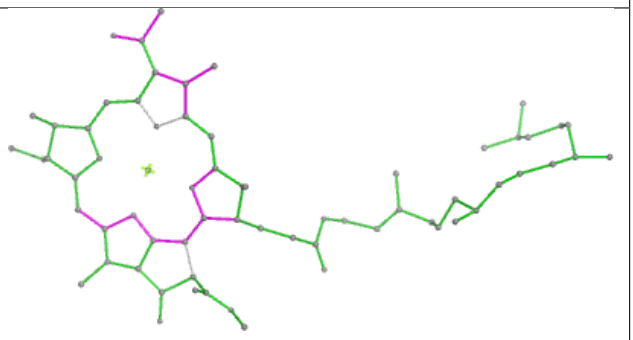
Ligand HEC C 401



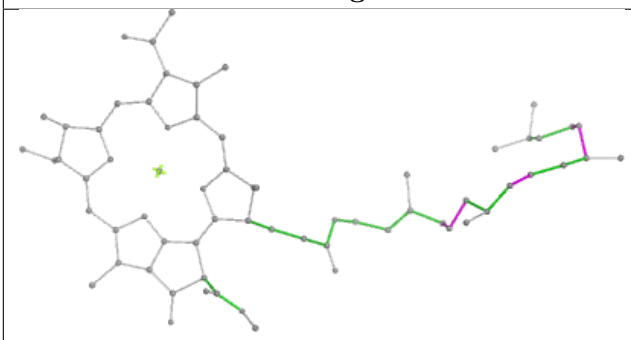
Ligand BCL ak 1001



Bond lengths



Bond angles



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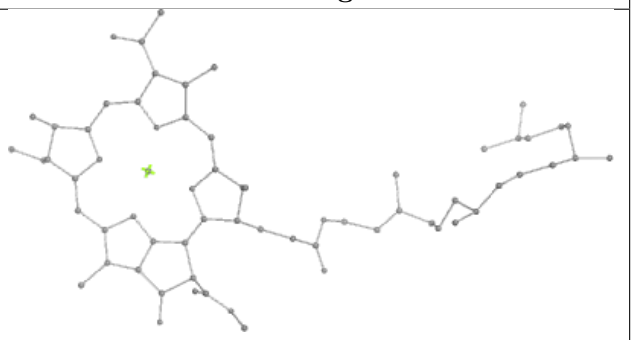
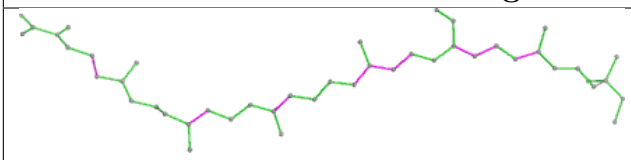


Rings

Ligand V7N BX 1001



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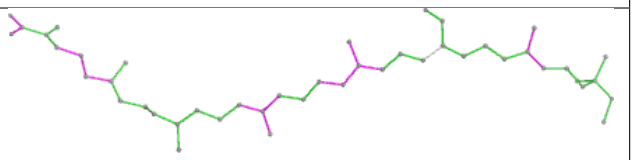
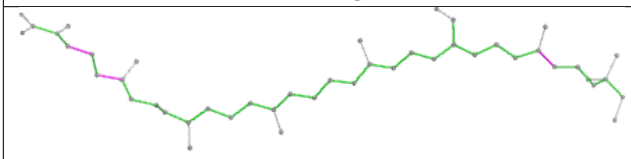
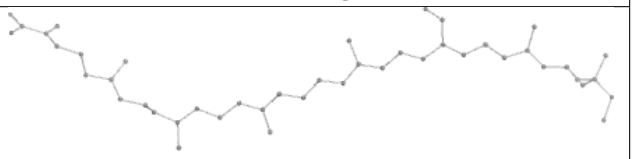


Bond angles

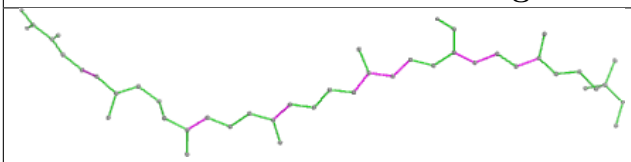


Torsions

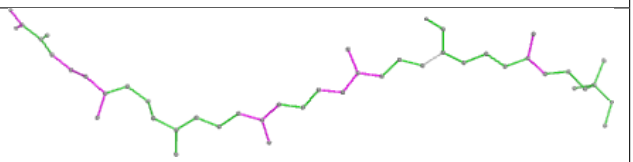


Rings

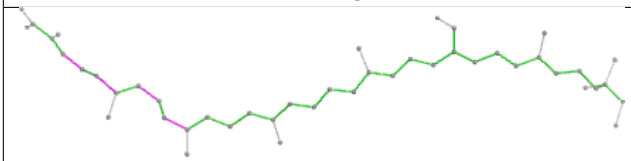
Ligand V7N BB 101



Bond lengths



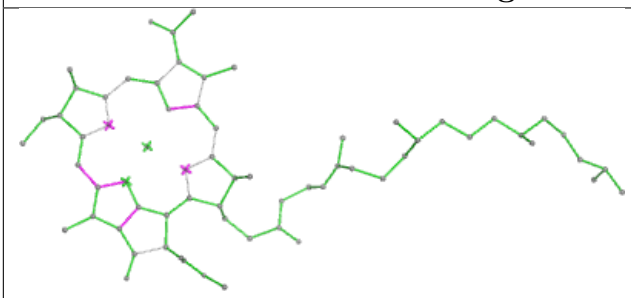
Bond angles



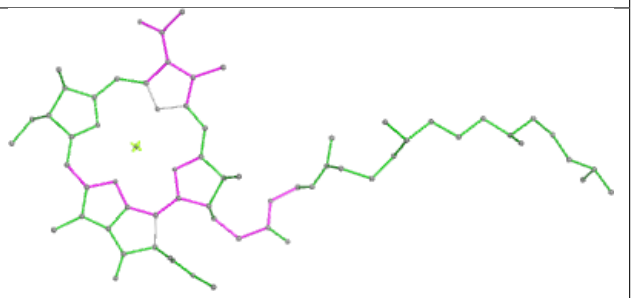
Torsions

Rings

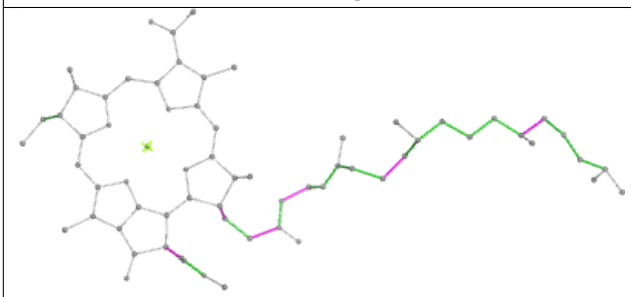
Ligand BCL BW 1003



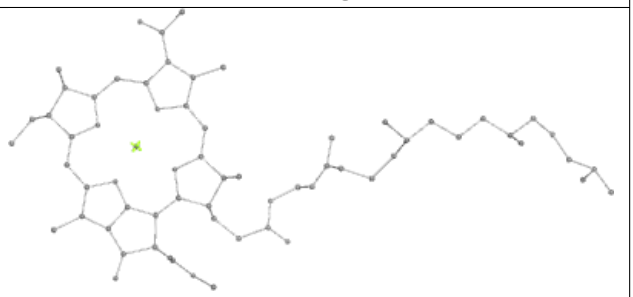
Bond lengths



Bond angles

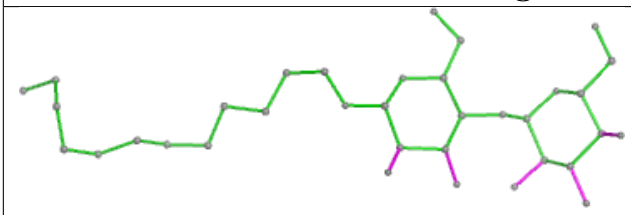


Torsions



Rings

Ligand LMT bh 104



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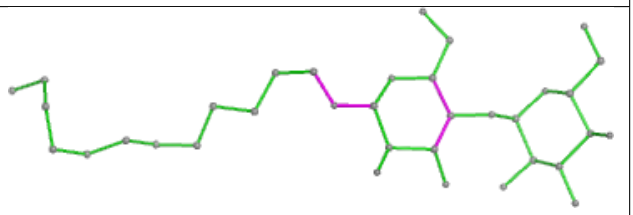
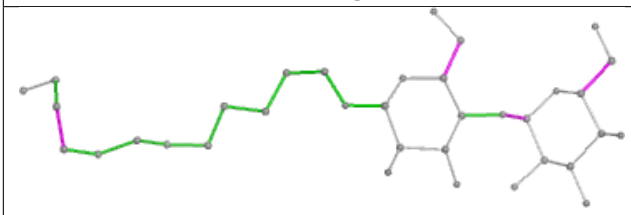
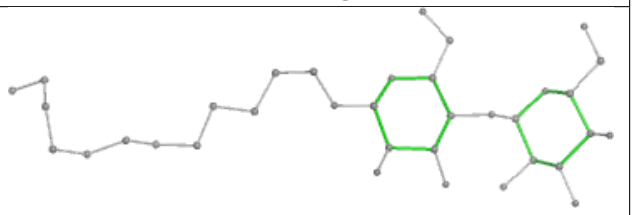


Bond angles

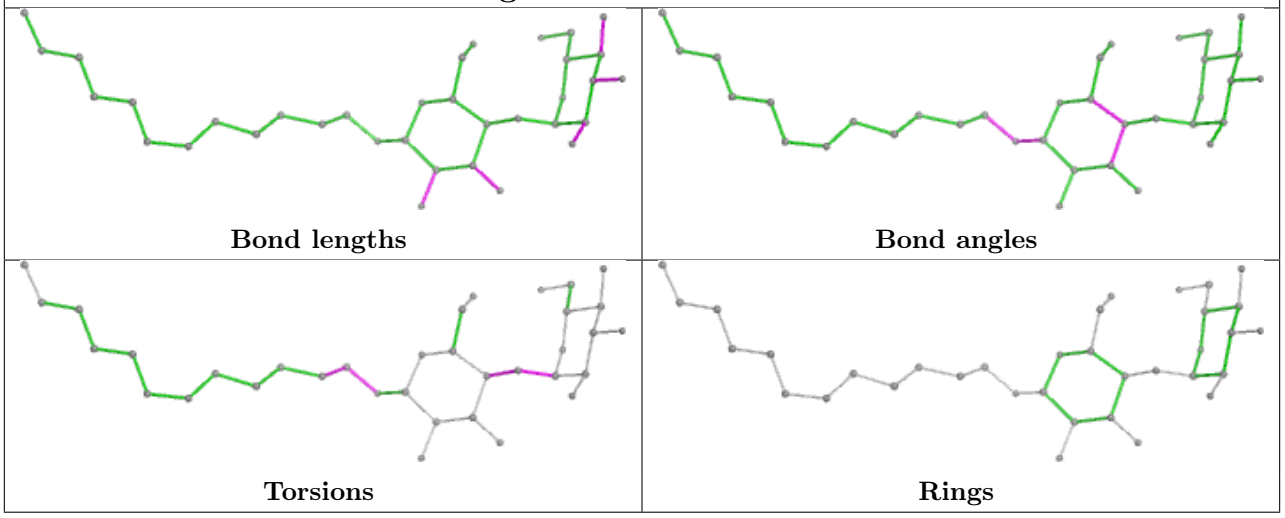


Torsions

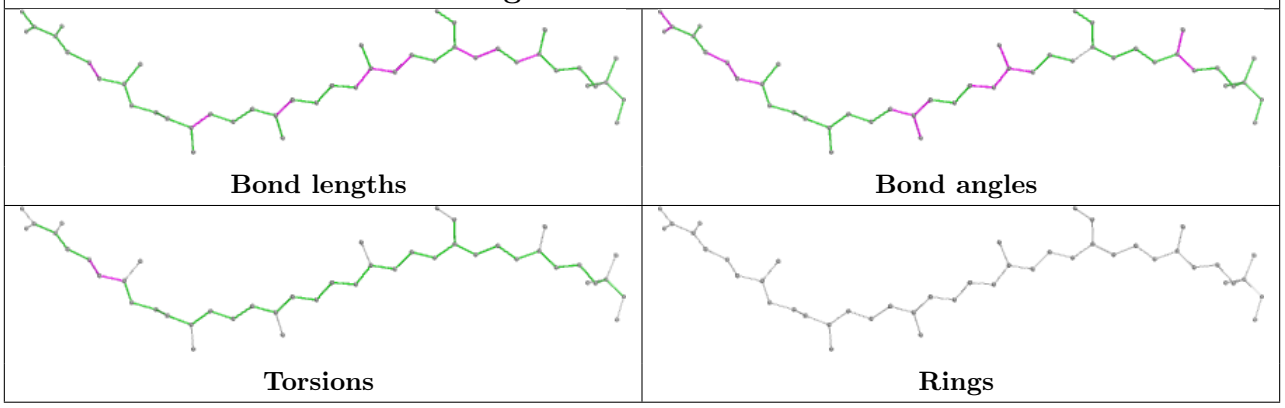


Rings

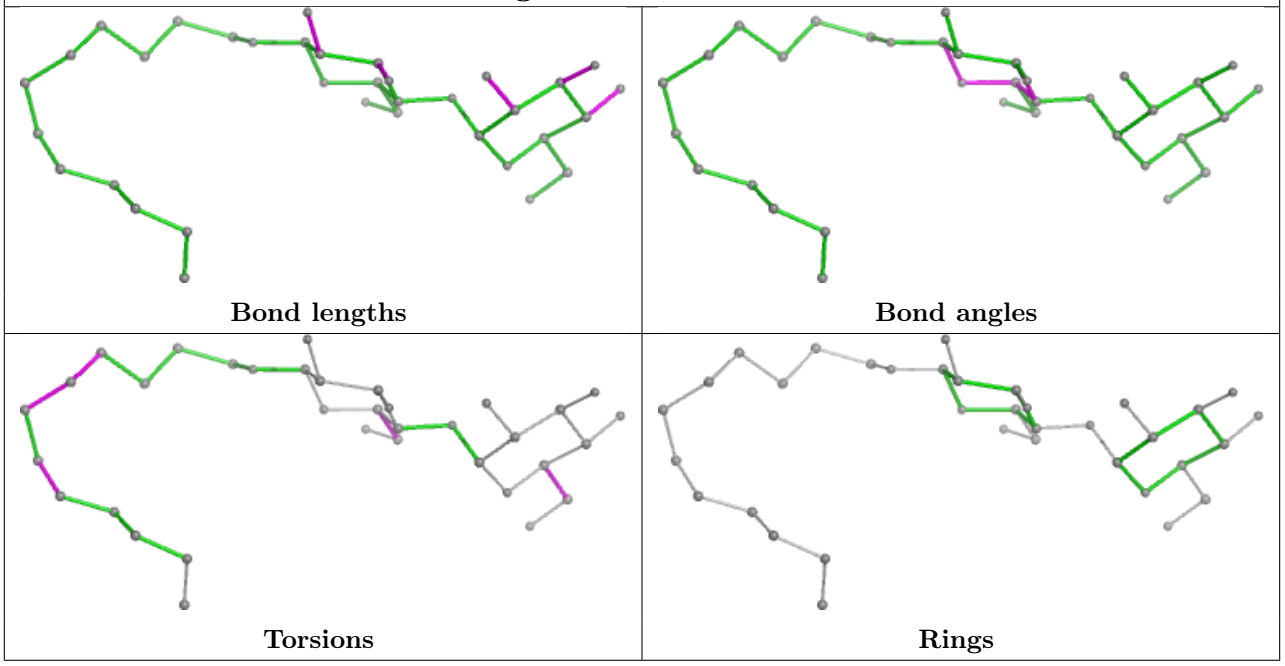
Ligand LMT BK 1005



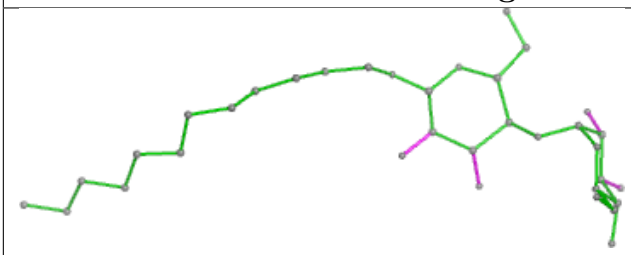
Ligand V7N BV 1001



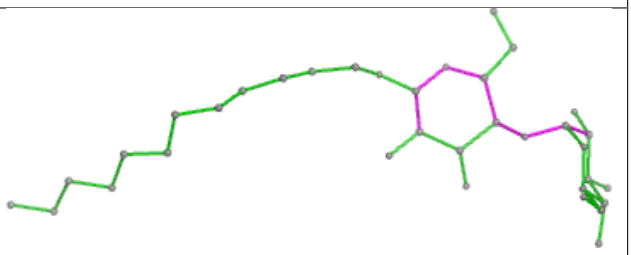
Ligand LMT bd 103



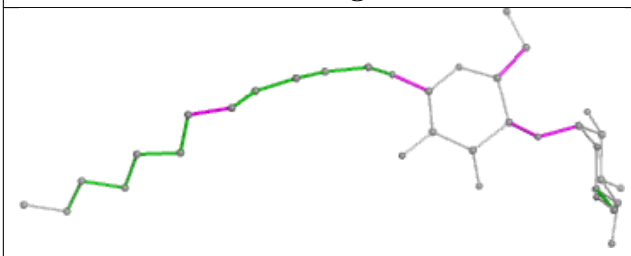
Ligand LMT BK 1003



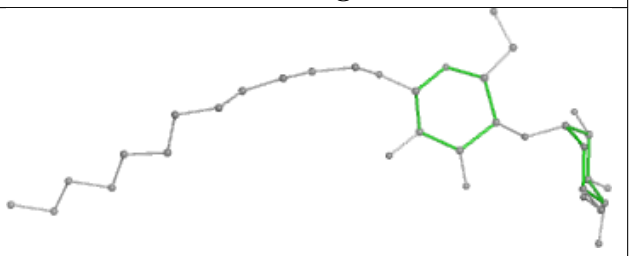
Bond lengths



Bond angles

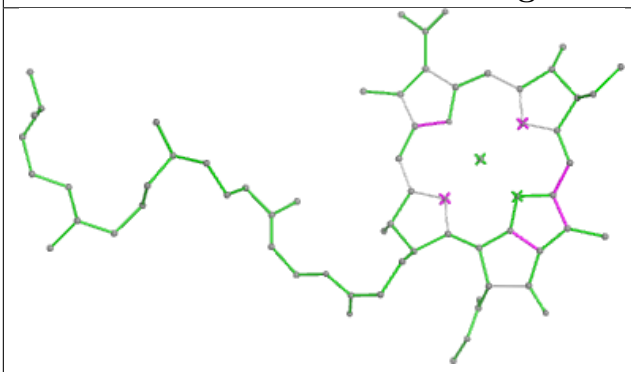


Torsions



Rings

Ligand BCL bn 103



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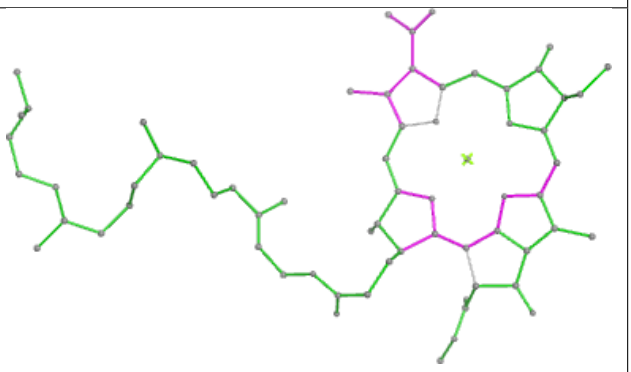
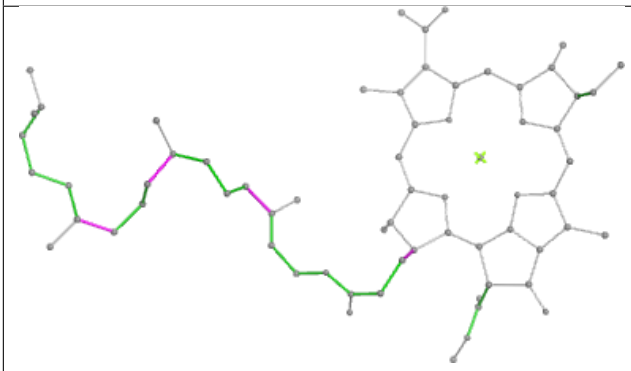


Bond angles



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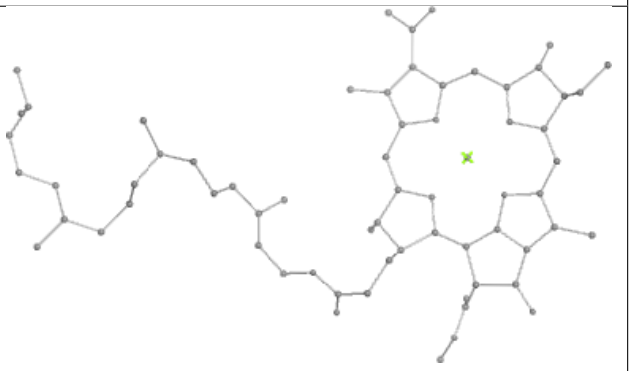
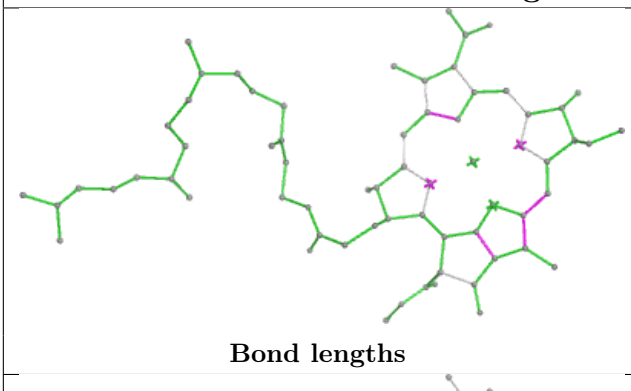
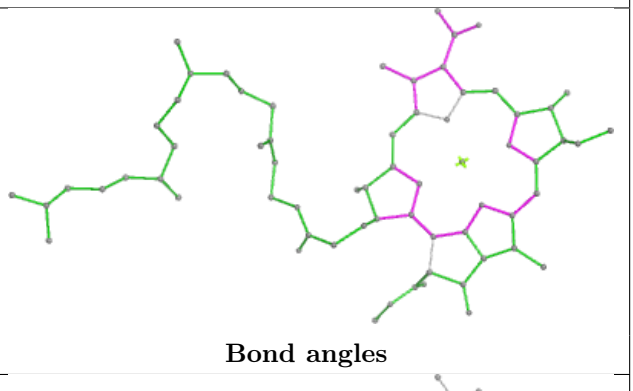


Rings

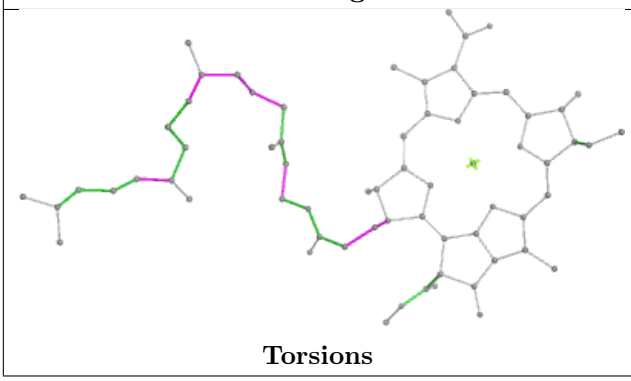
Ligand BCL bl 104



Bond lengths



Bond angles



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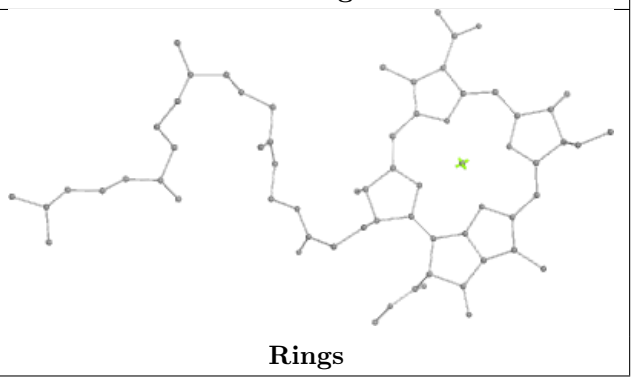
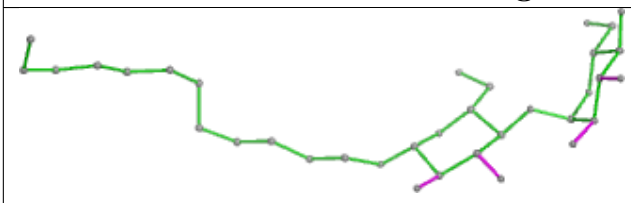
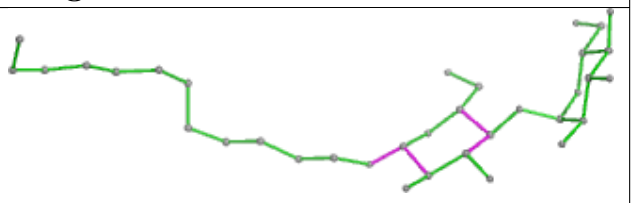


Rings

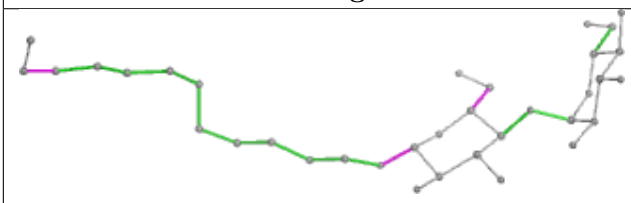
Ligand LMT bg 103



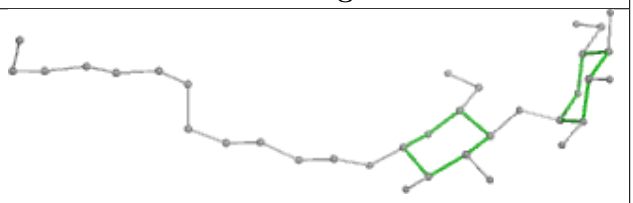
Bond lengths



Bond angles

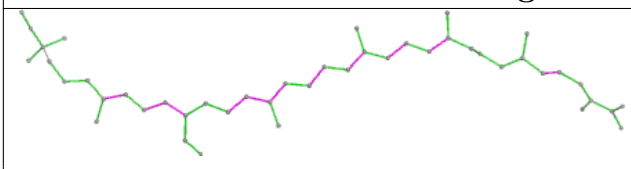


Torsions

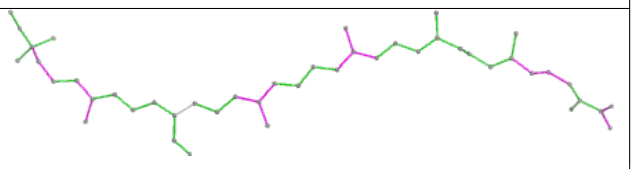


Rings

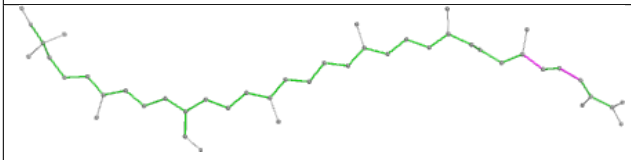
Ligand V7N bd 101



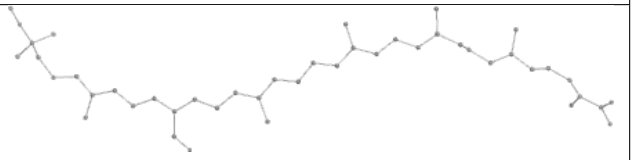
Bond lengths



Bond angles

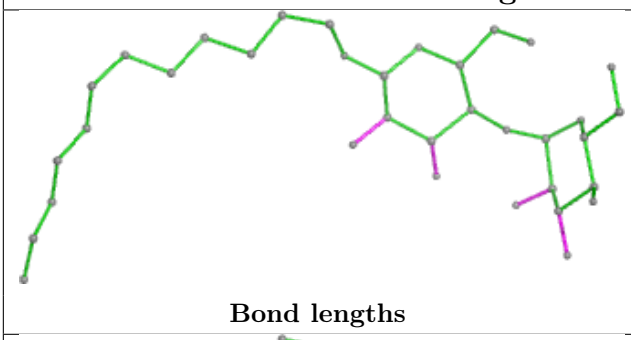


Torsions

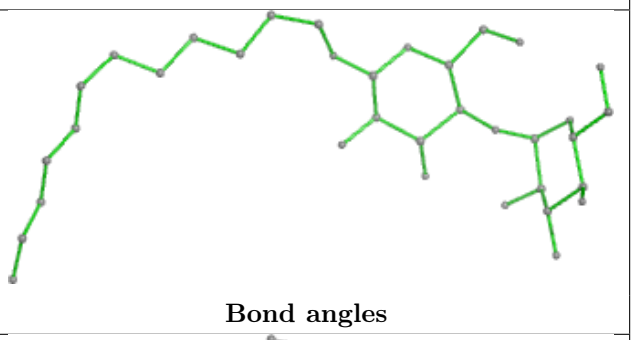


Rings

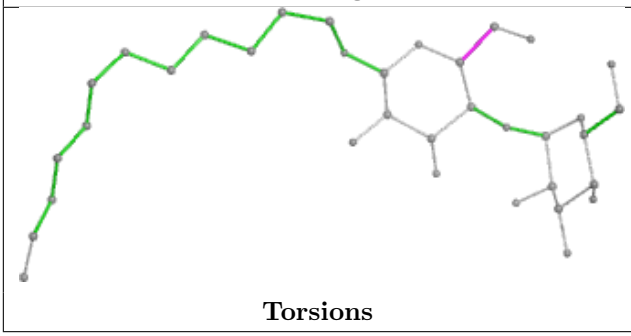
Ligand LMT BO 1003



Bond lengths



Bond angles



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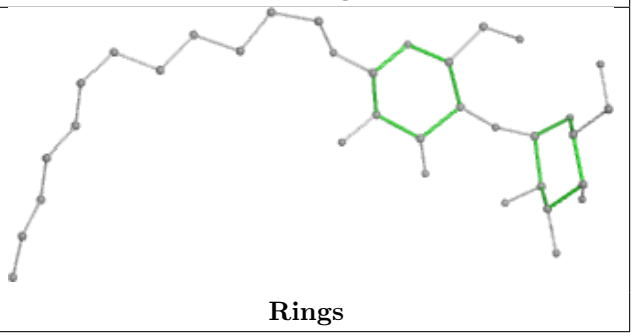
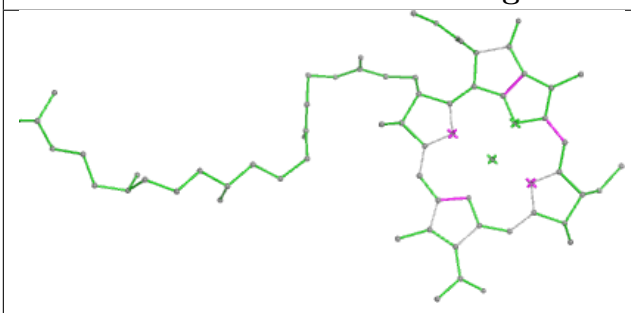
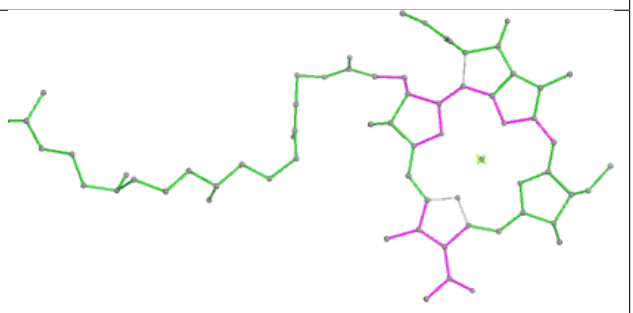


Rings

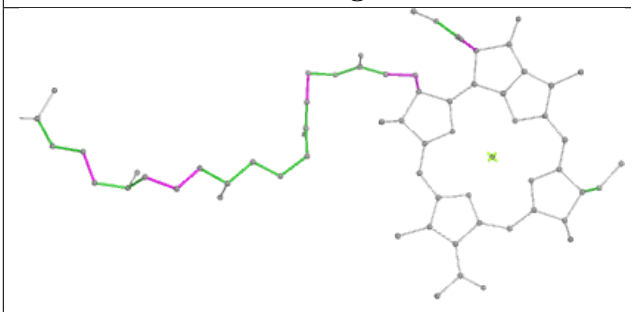
Ligand BCL BH 1005



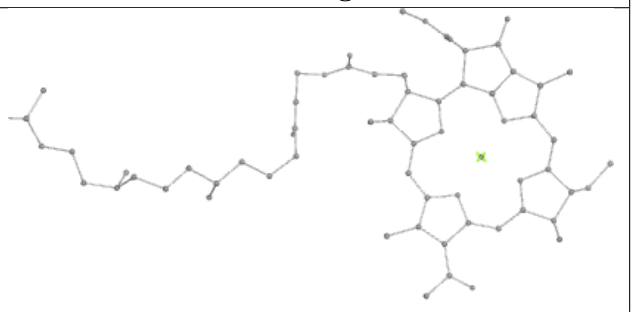
Bond lengths



Bond angles

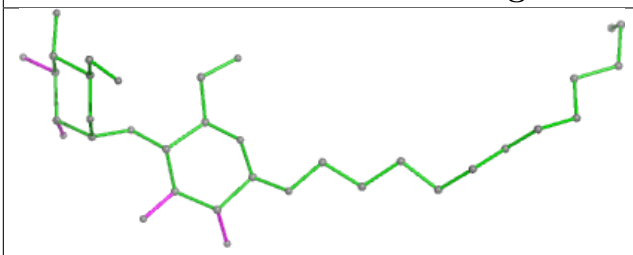


Torsions

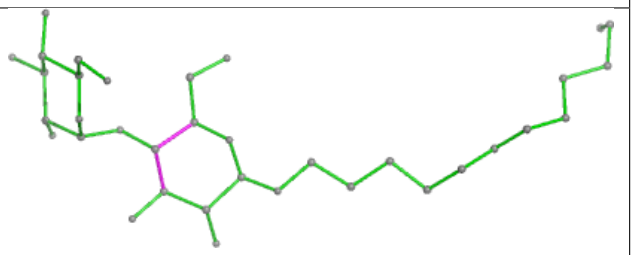


Rings

Ligand LMT BA 102



Bond lengths



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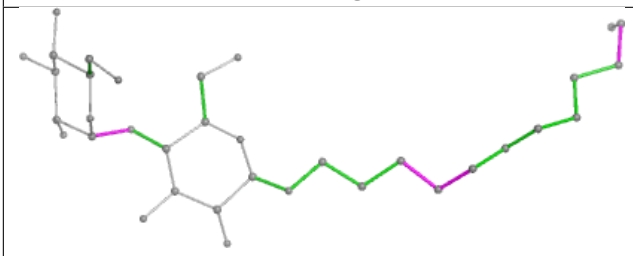
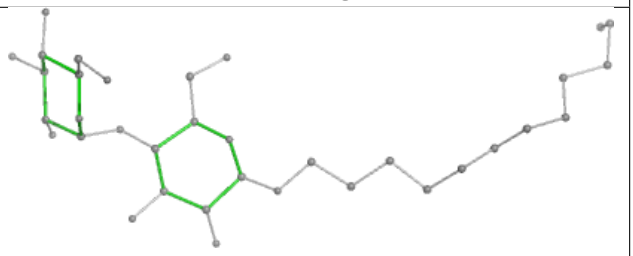
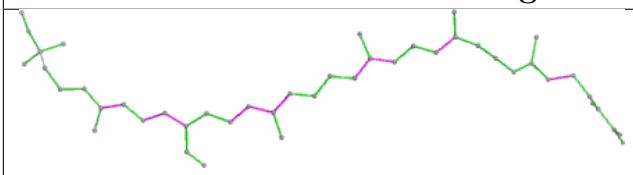


Torsions



Rings

Ligand V7N be 101



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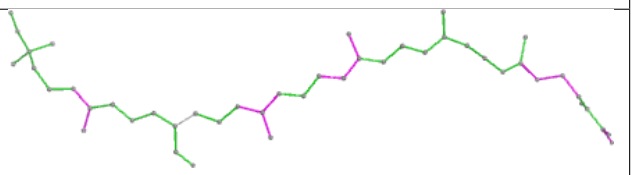
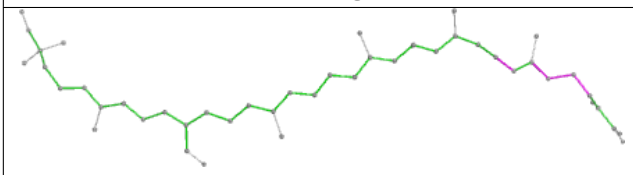
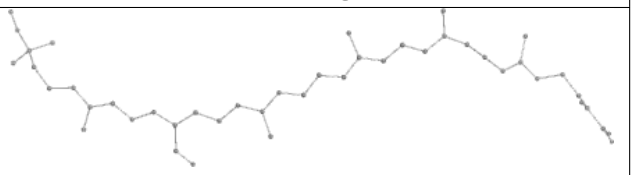


Bond angles

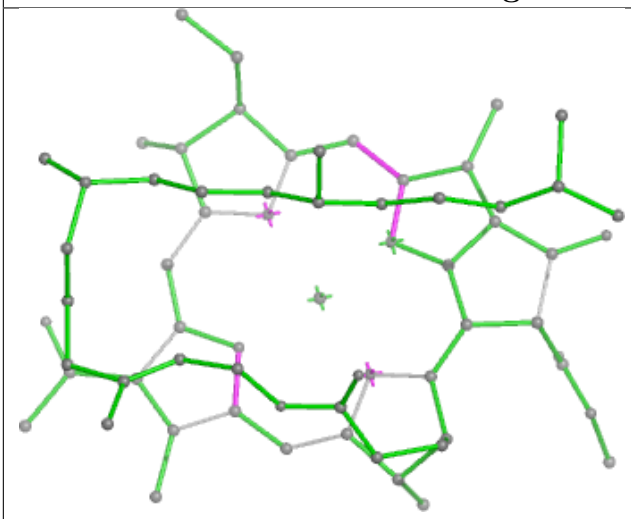


Torsions



Rings

Ligand BCL AB 1002



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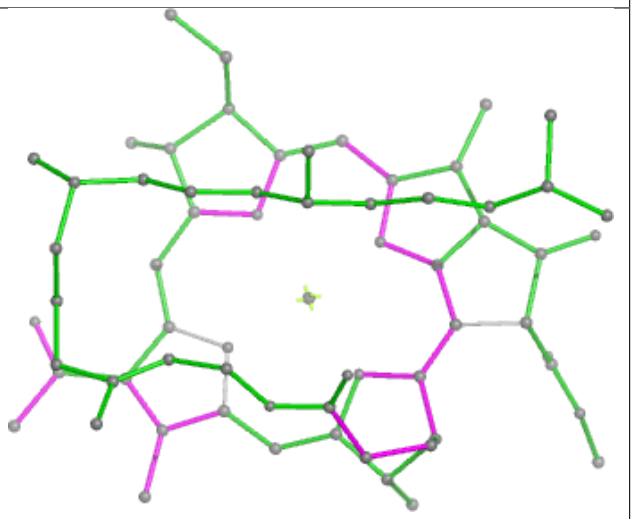
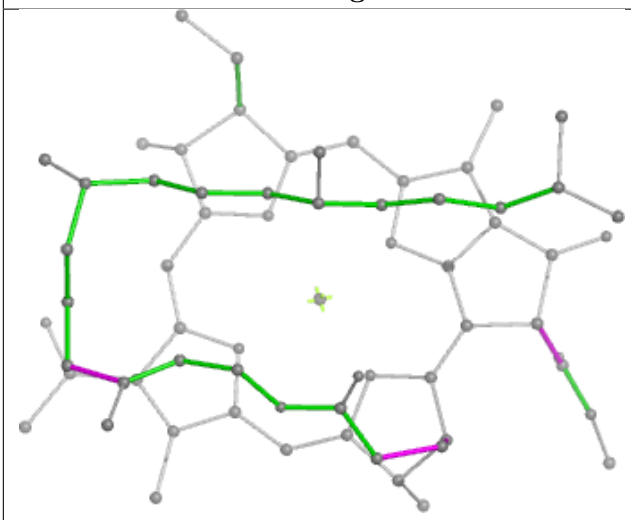
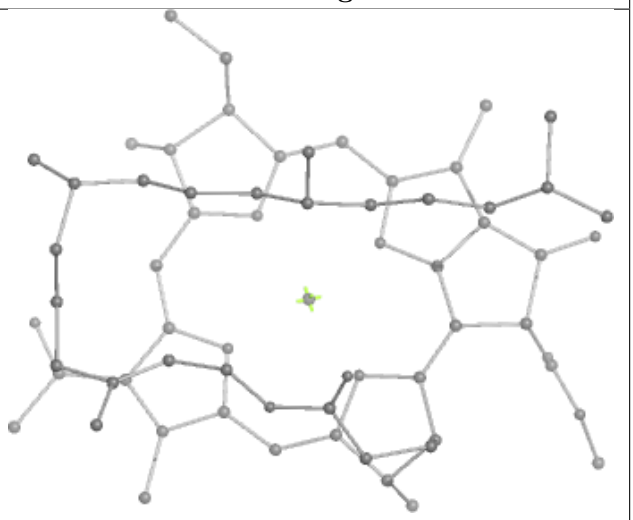


Bond angles

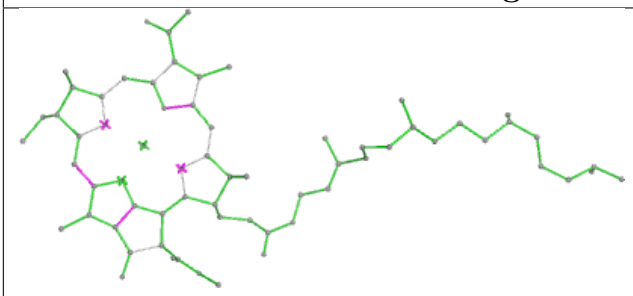


Torsions



Rings

Ligand BCL BX 1002



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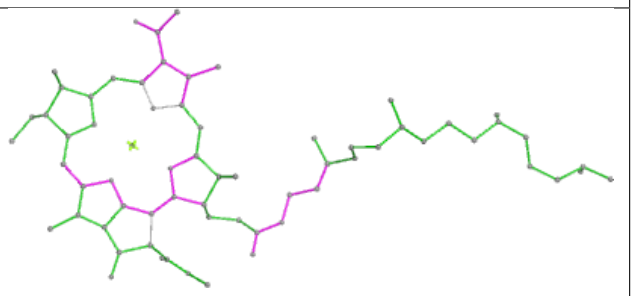
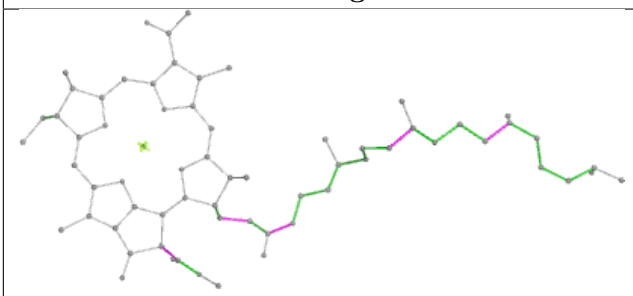


Bond angles



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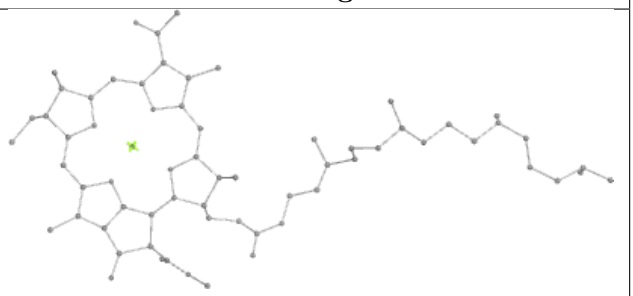
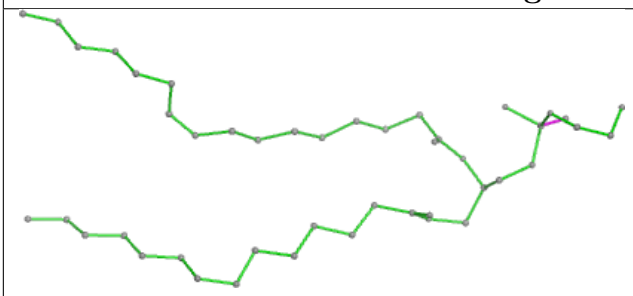
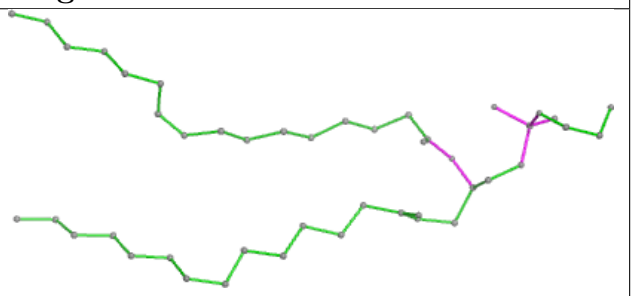


Rings

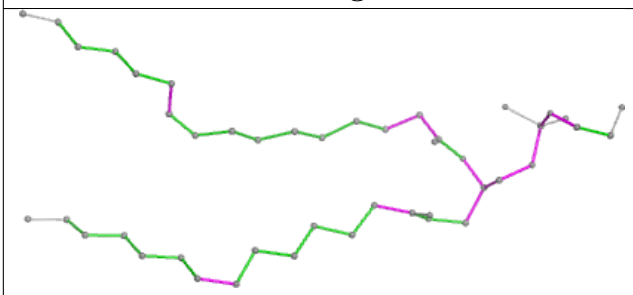
Ligand 0V9 bg 102



Bond lengths



Bond angles



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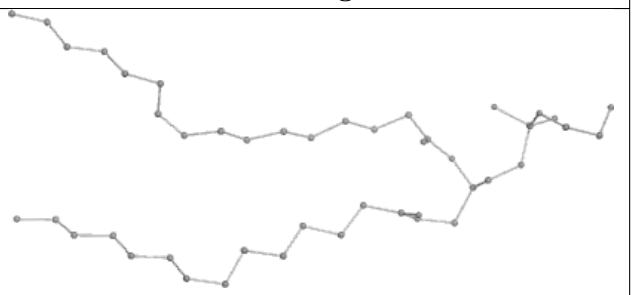
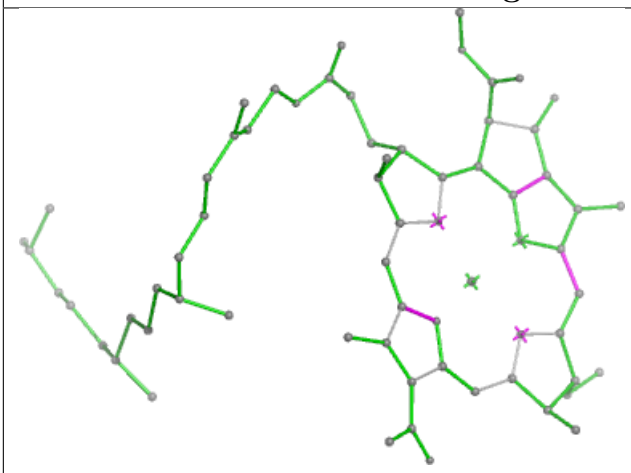
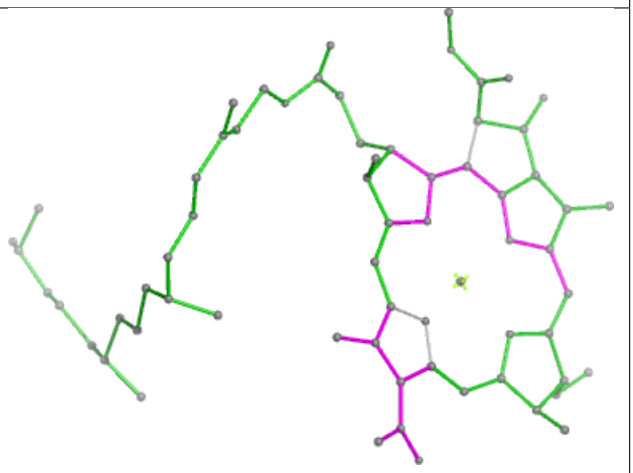


Rings

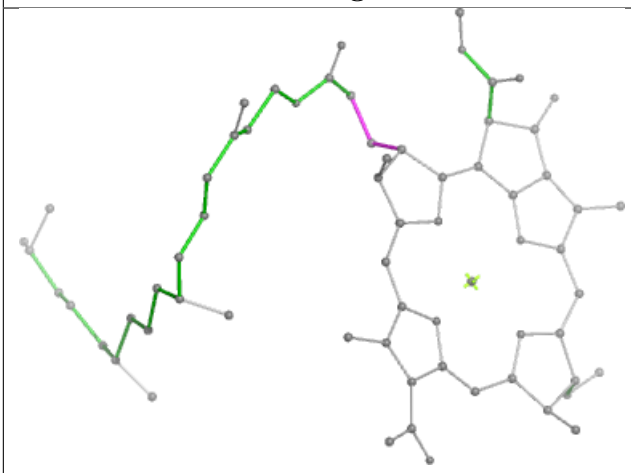
Ligand BCL BR 1004



Bond lengths



Bond angles



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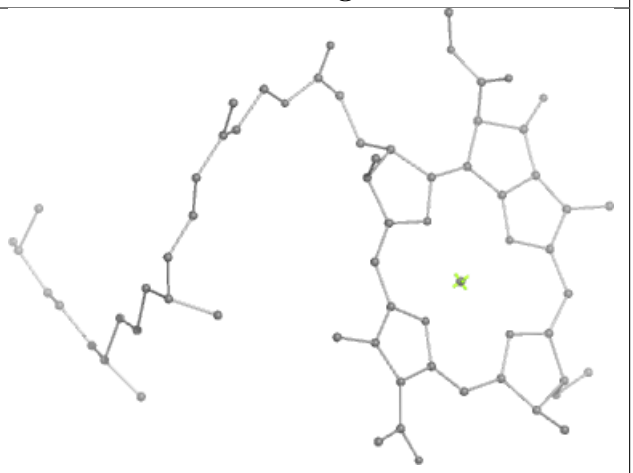
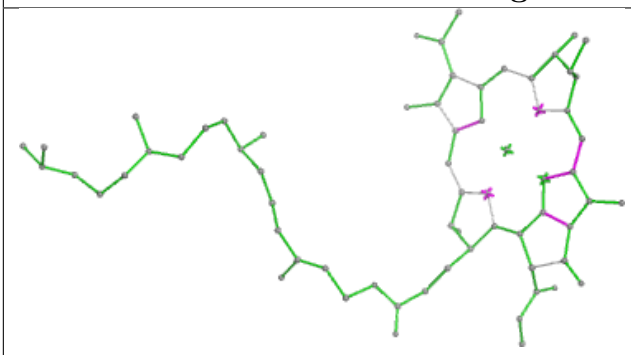
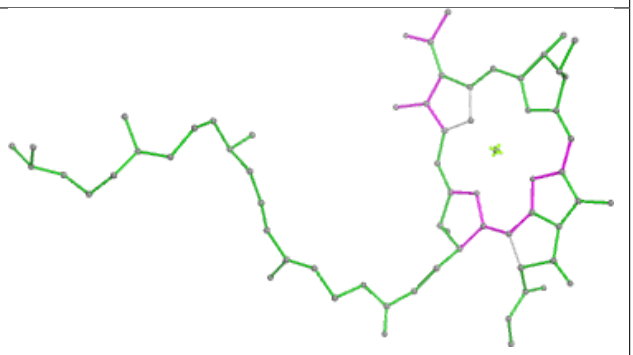


Rings

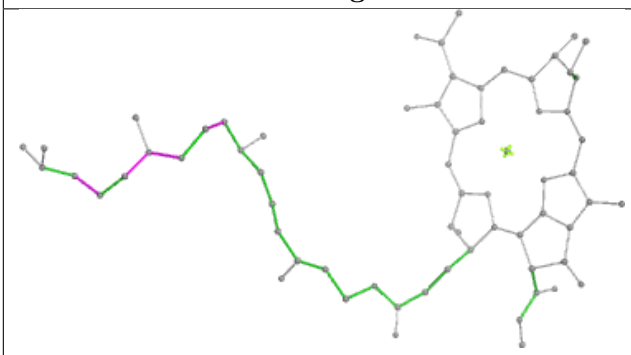
Ligand BCL AH 103



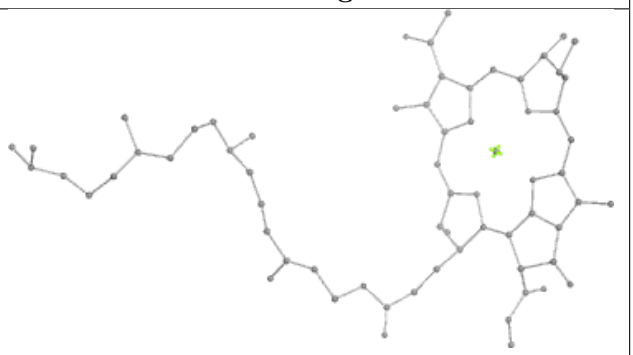
Bond lengths



Bond angles

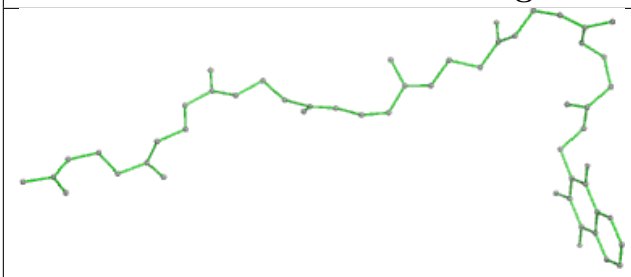


Torsions

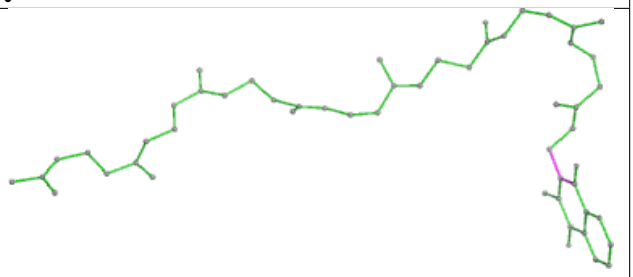


Rings

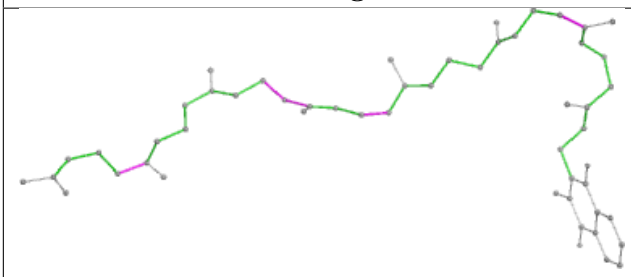
Ligand MQ8 L 1001



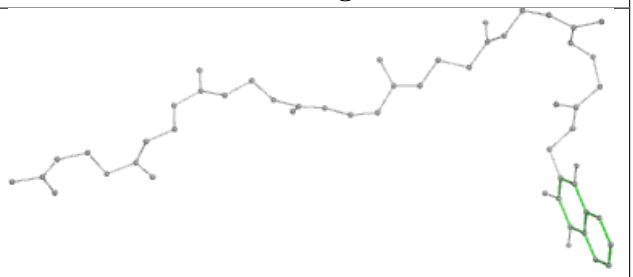
Bond lengths



Bond angles

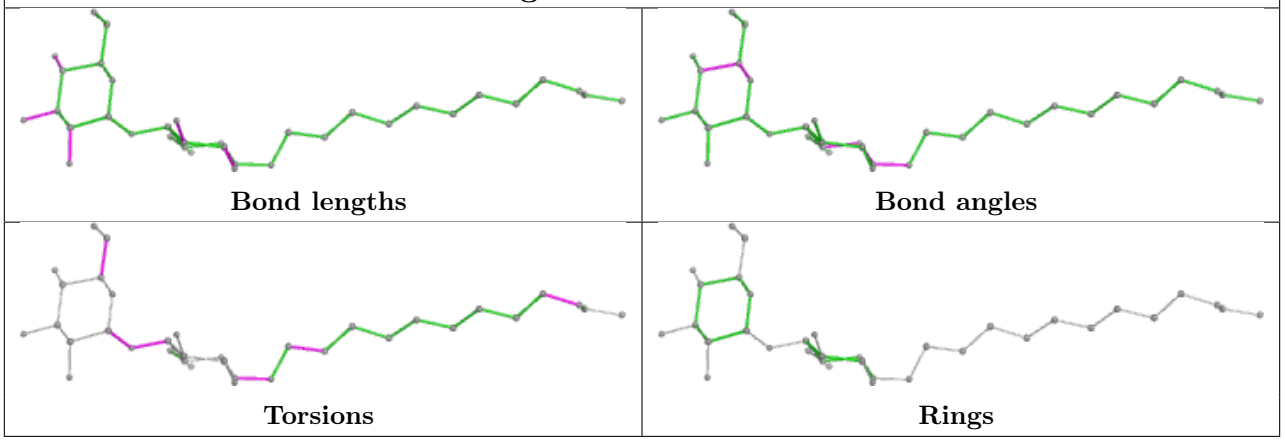


Torsions

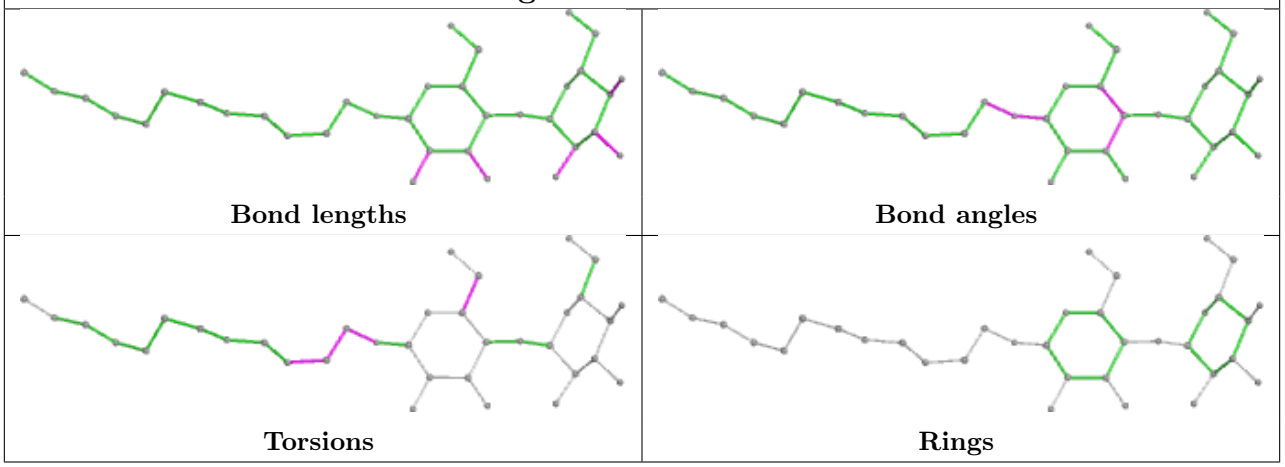


Rings

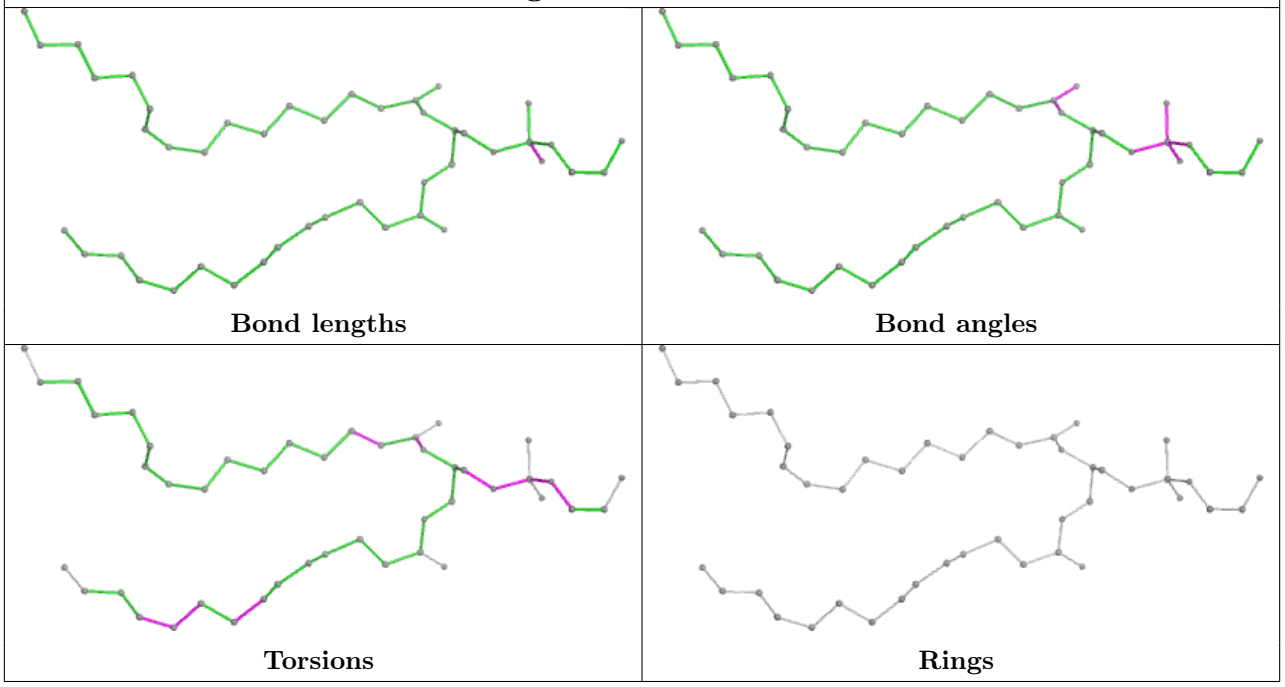
Ligand LMT bl 101



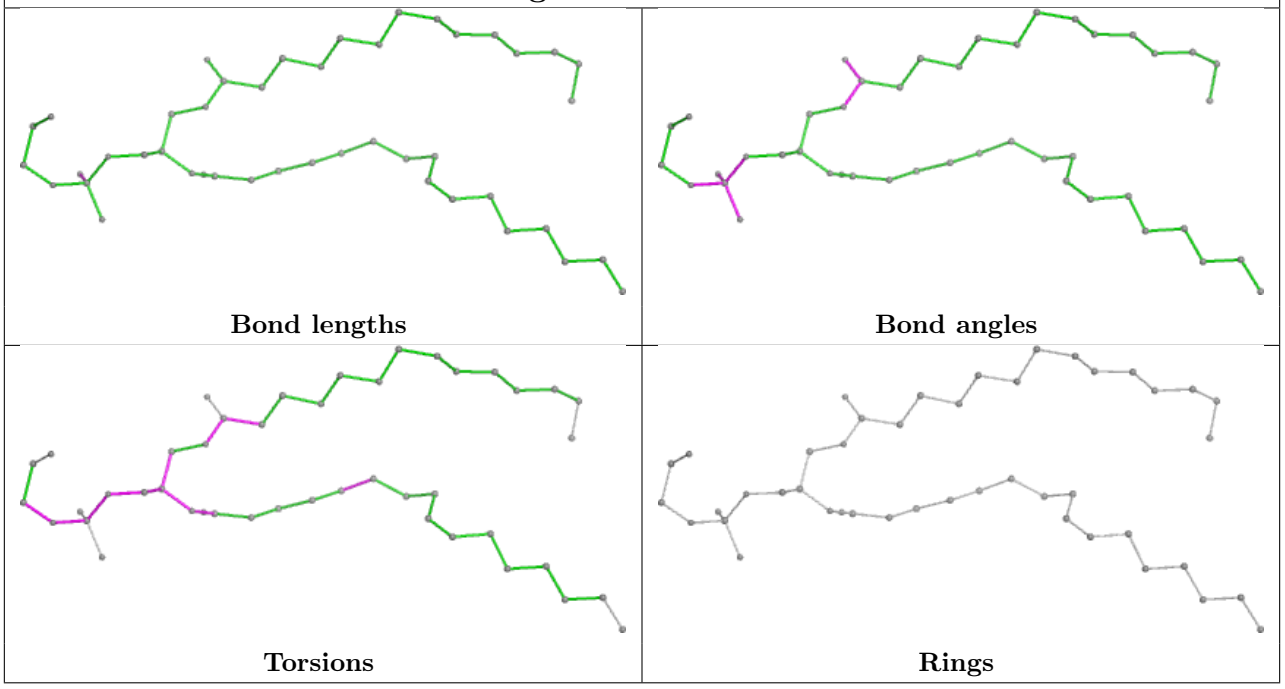
Ligand LMT M 403



Ligand 0V9 bc 103



Ligand 0V9 bl 103



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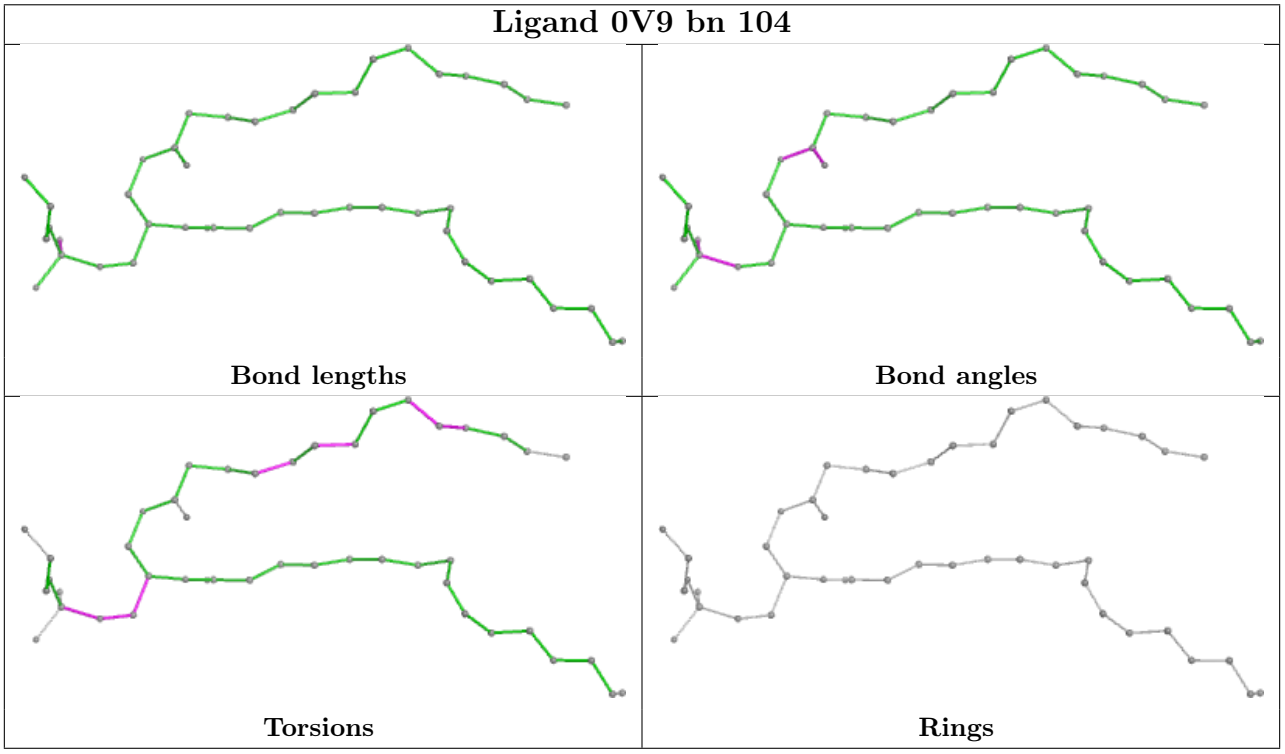
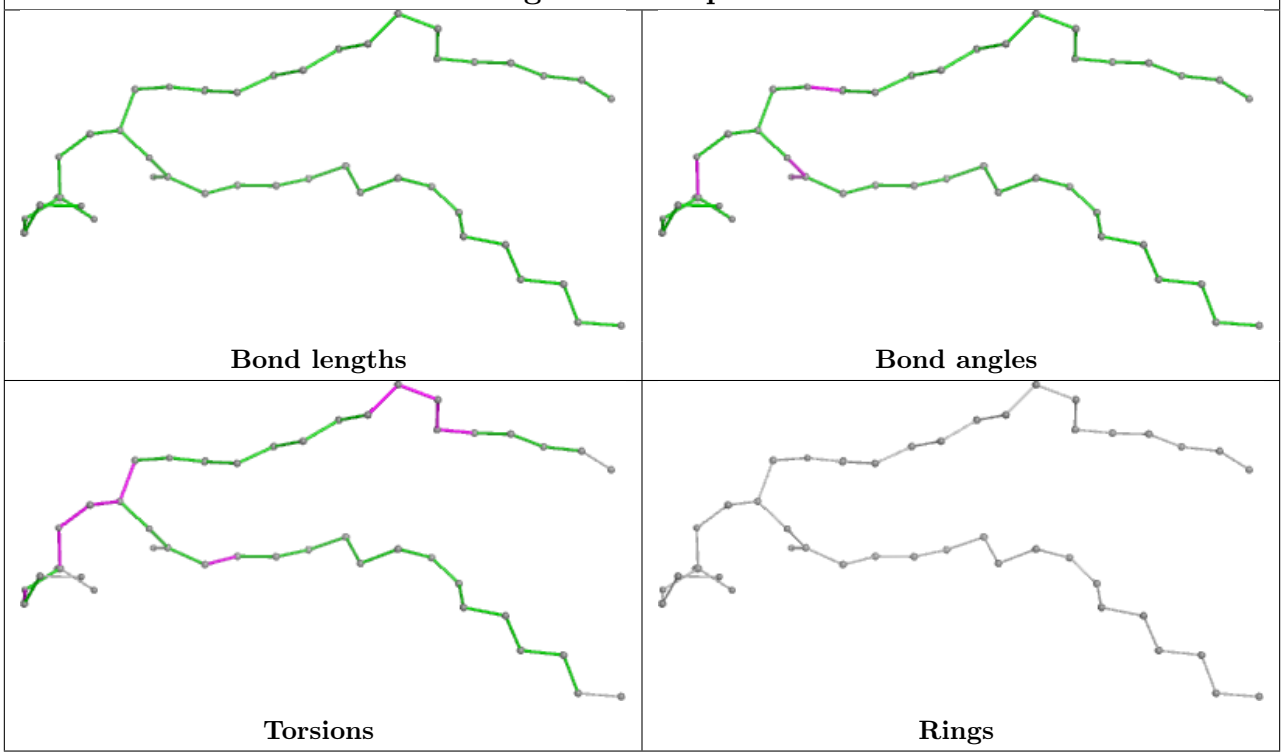
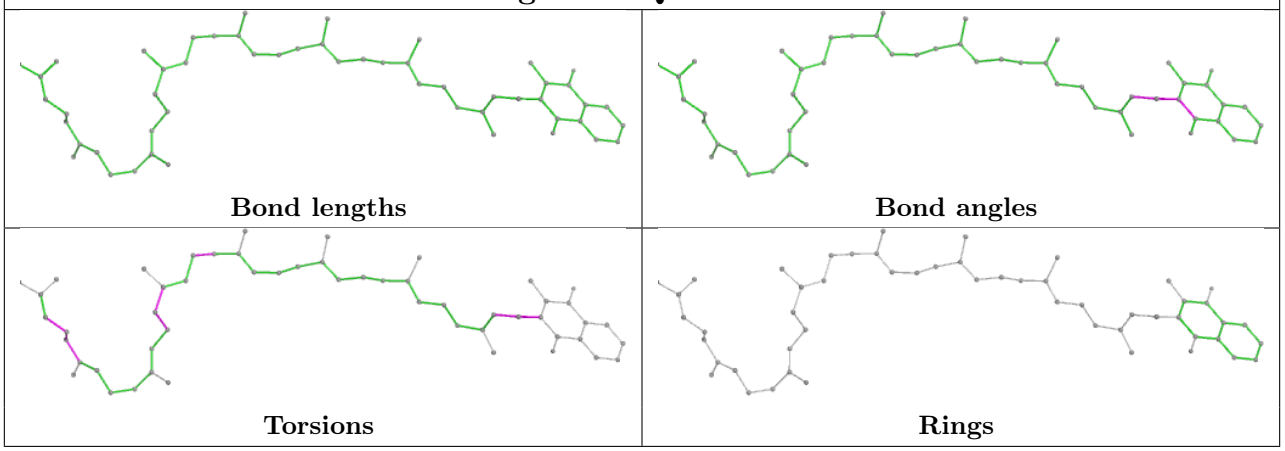


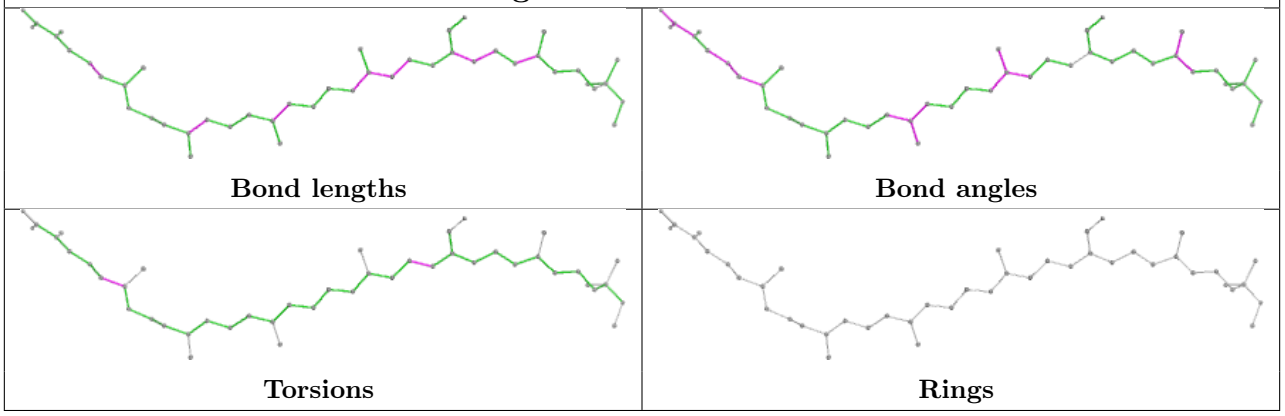
Ligand 0V9 bp 103



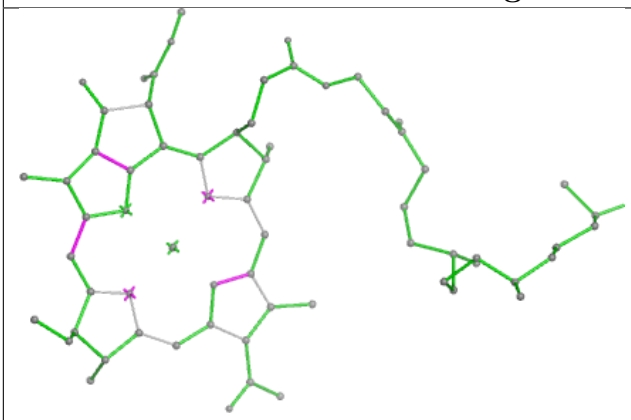
Ligand MQ8 ao 101



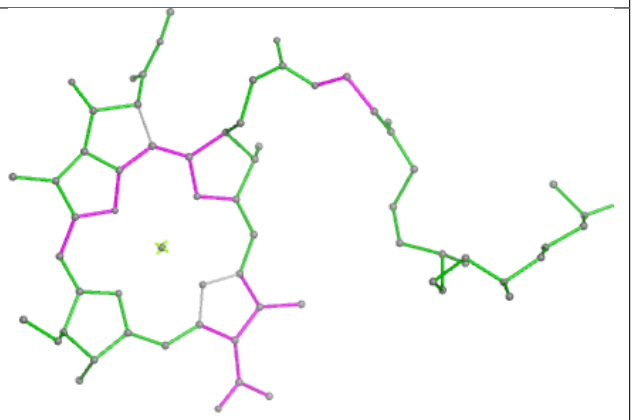
Ligand V7N BD 101



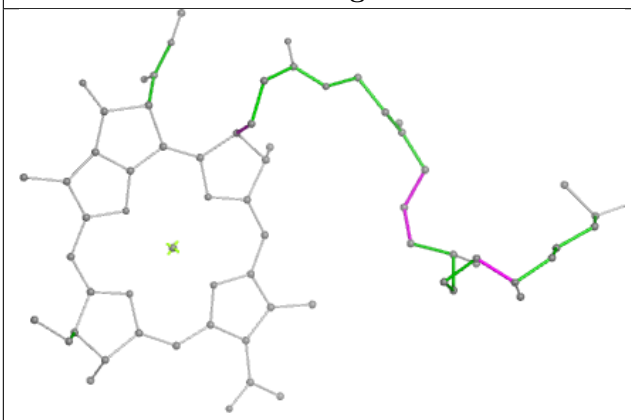
Ligand BCL BP 1005



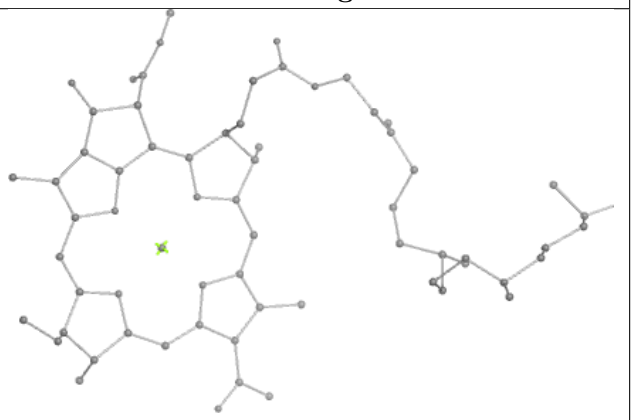
Bond lengths



Bond angles

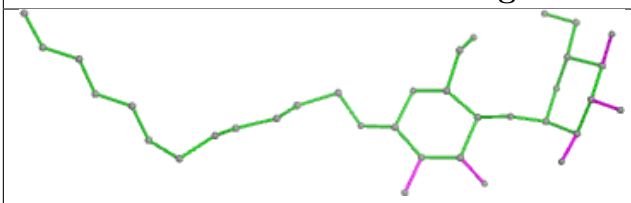


Torsions

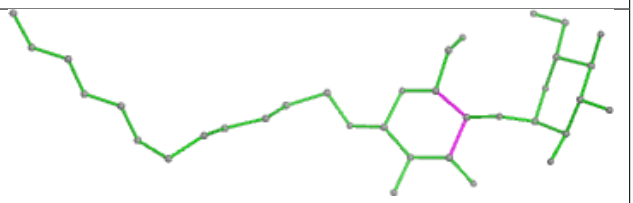


Rings

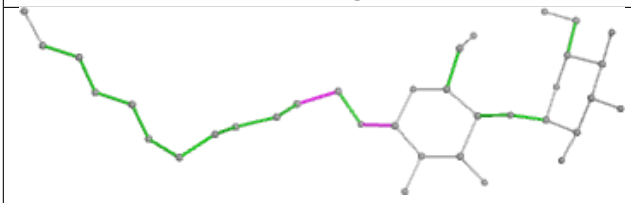
Ligand LMT BG 1003



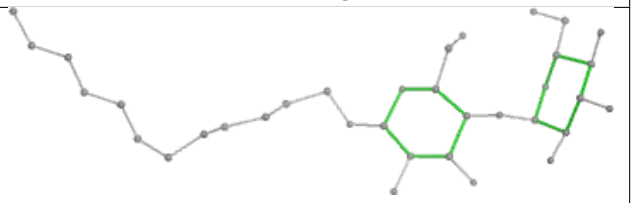
Bond lengths



Bond angles

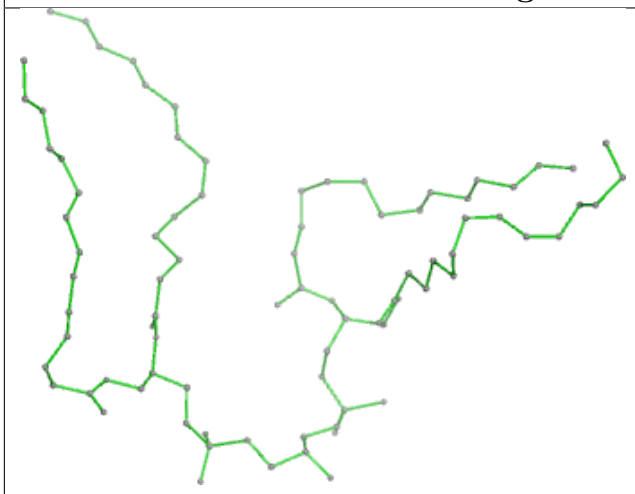


Torsions

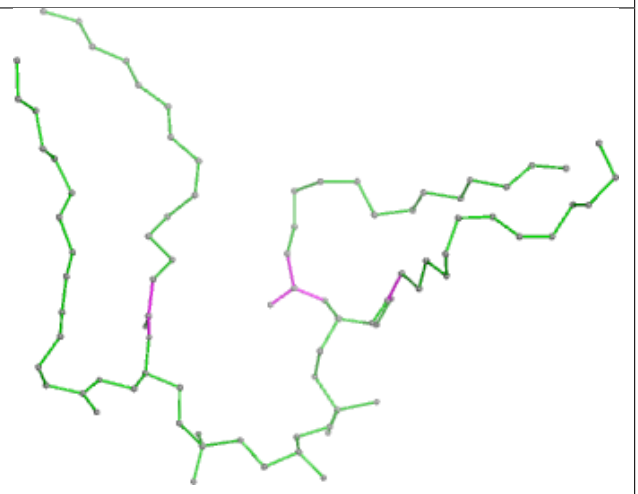


Rings

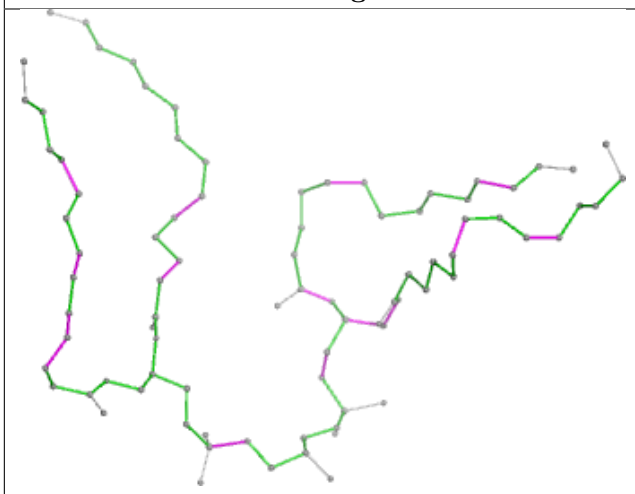
Ligand CD4 H1 104



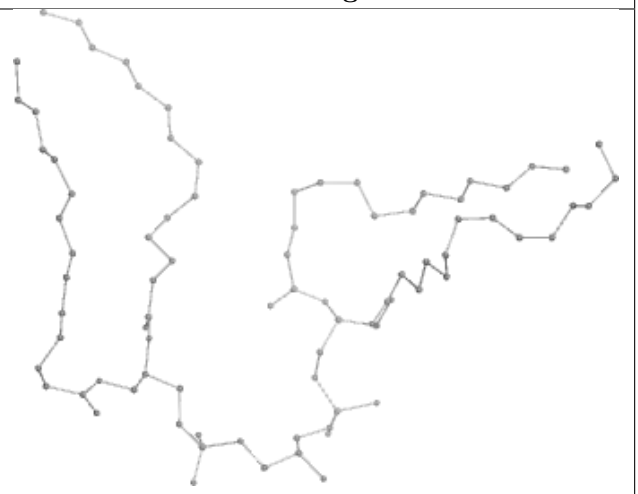
Bond lengths



Bond angles

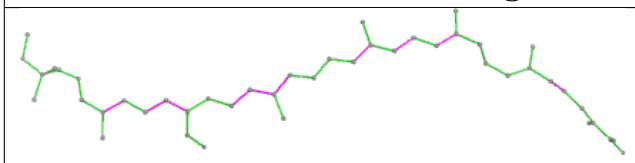


Torsions

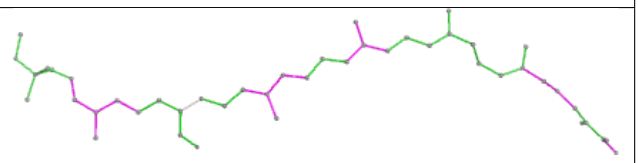


Rings

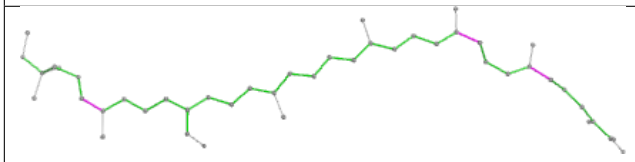
Ligand V7N BH 1001



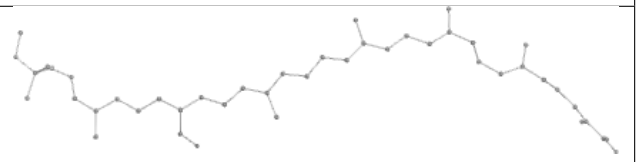
Bond lengths



Bond angles

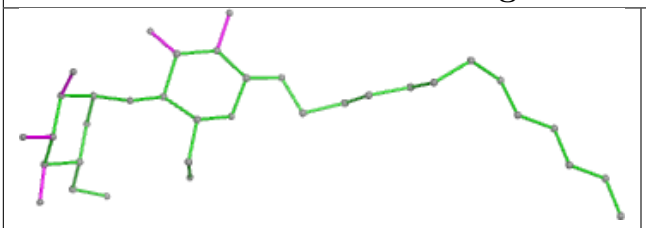


Torsions

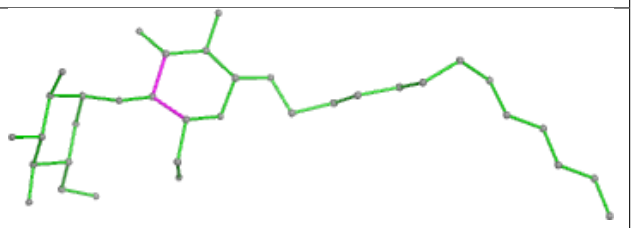


Rings

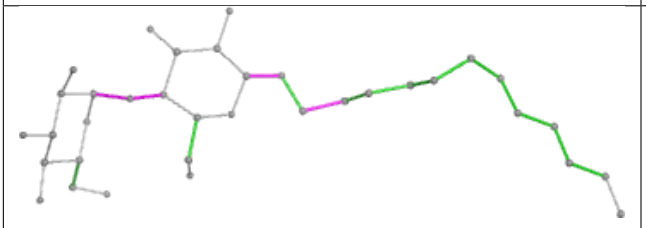
Ligand LMT BV 1004



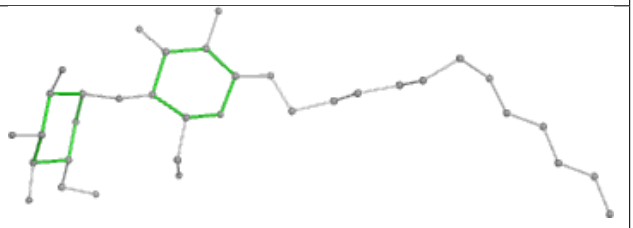
Bond lengths



Bond angles

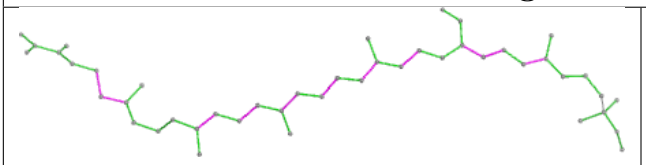


Torsions

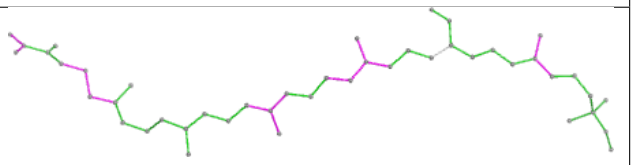


Rings

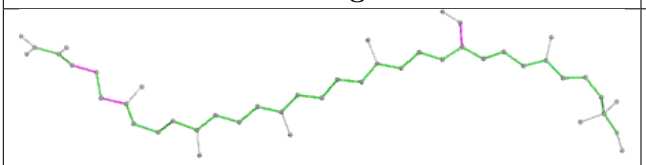
Ligand V7N bo 102



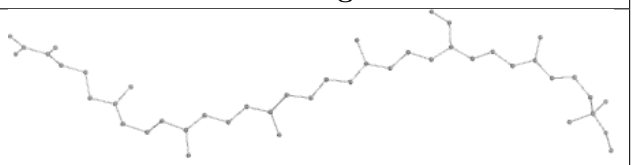
Bond lengths



Bond angles

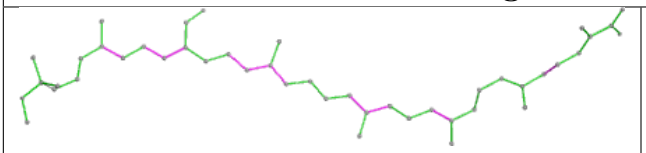


Torsions

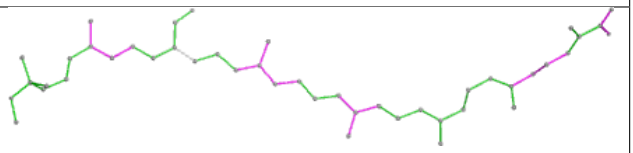


Rings

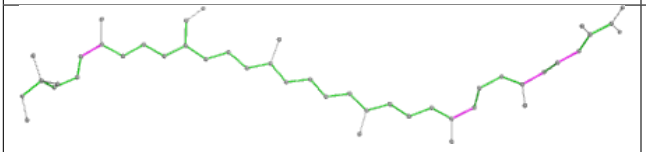
Ligand V7N AO 1001



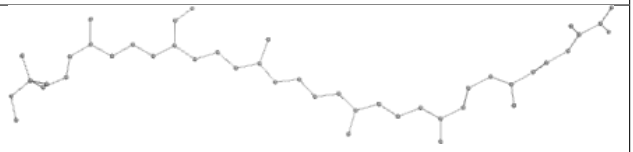
Bond lengths



Bond angles

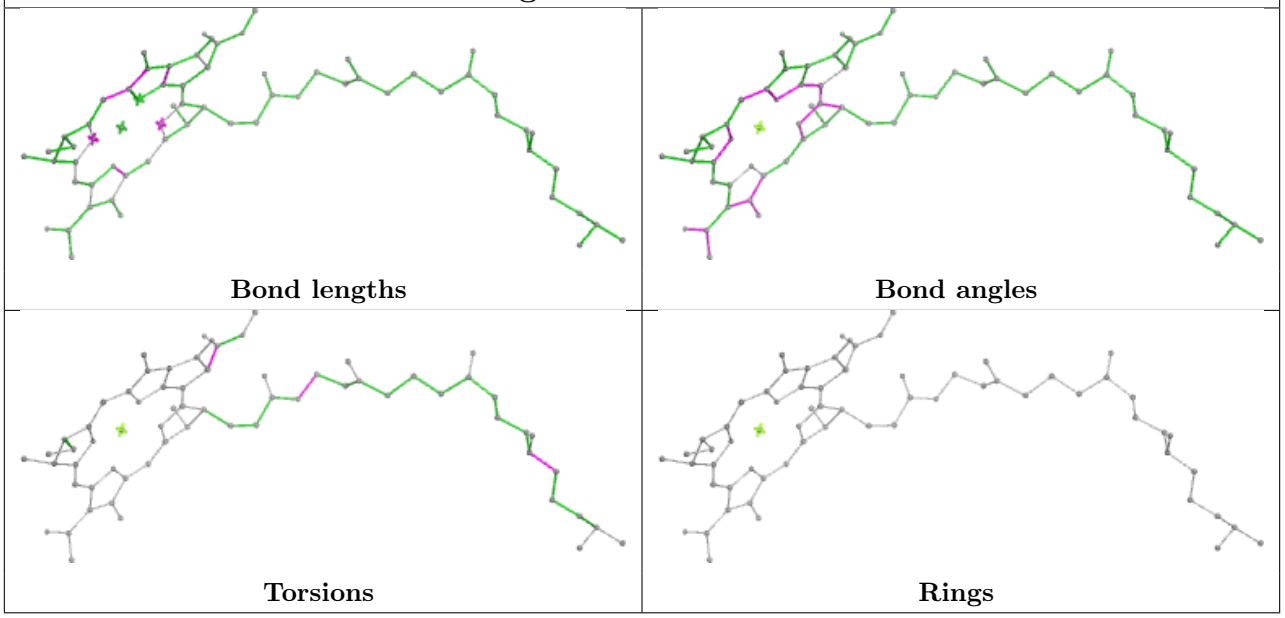


Torsions

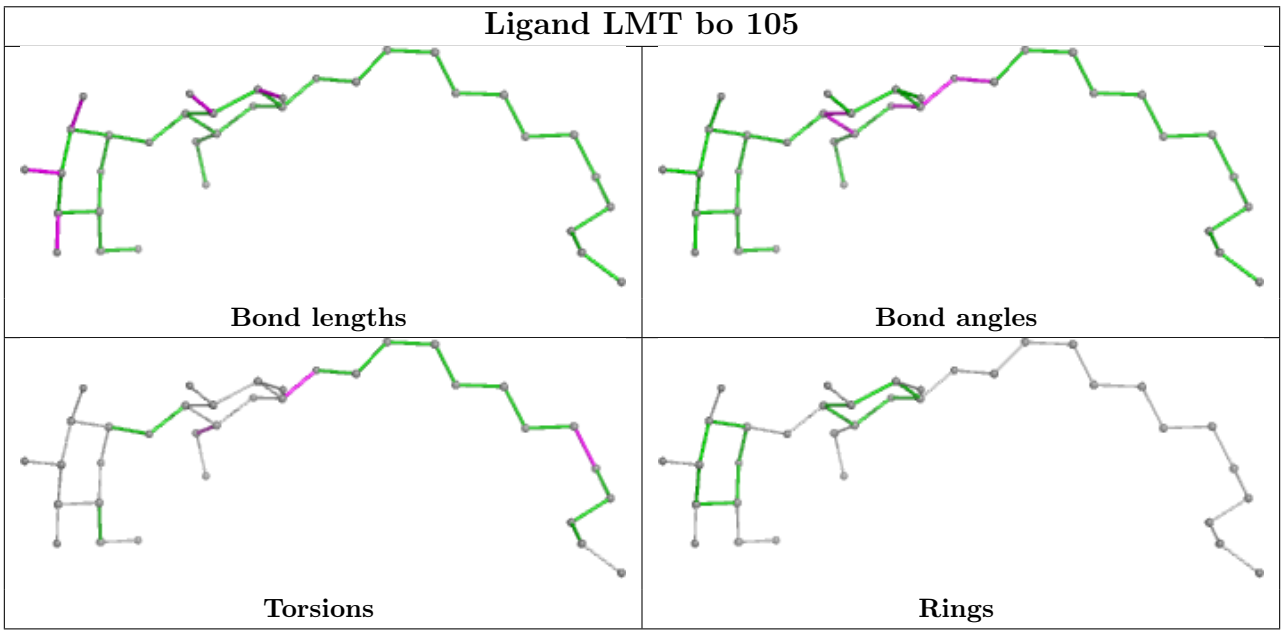


Rings

Ligand BCL L 1010



Ligand LMT bo 105



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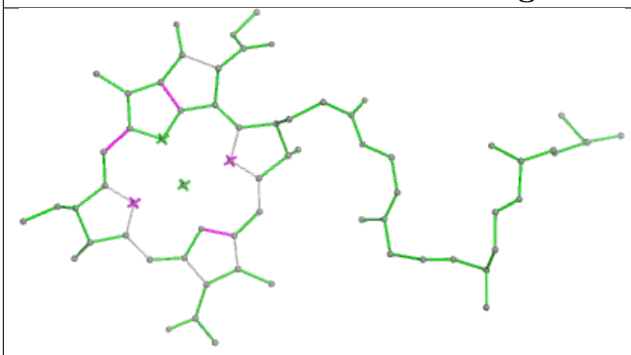
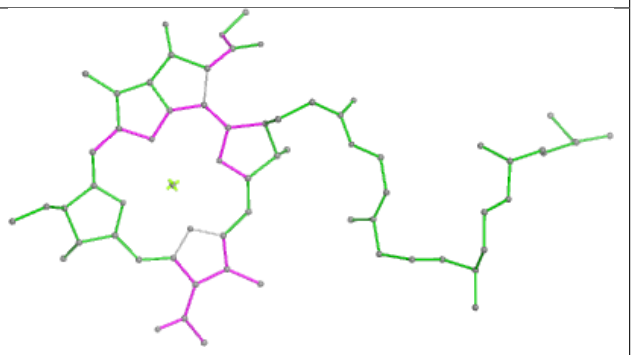
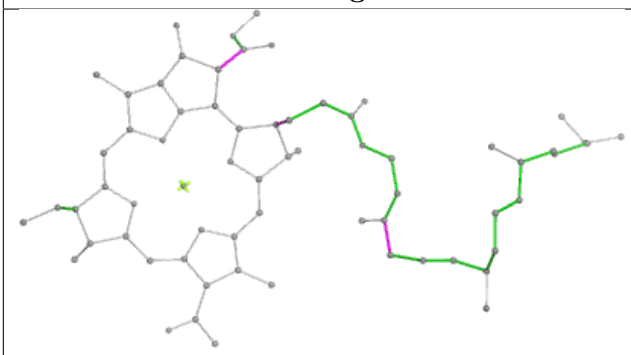


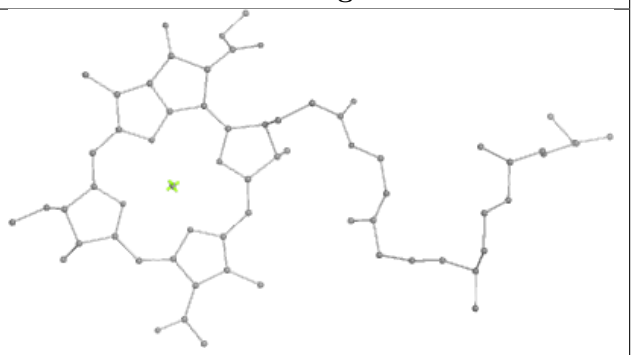
Bond lengths



Bond angles

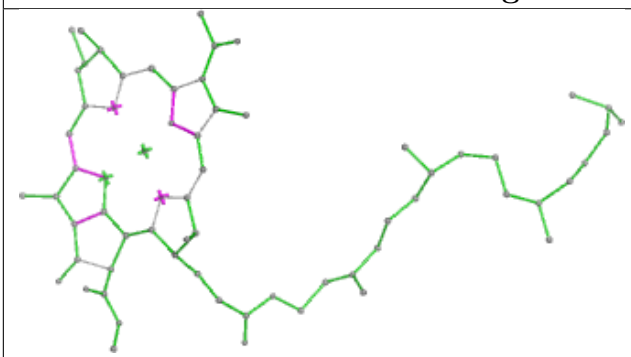


Torsions



Rings

Ligand BCL AA 1001



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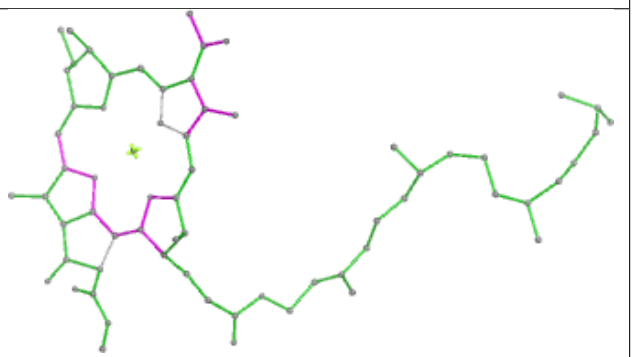
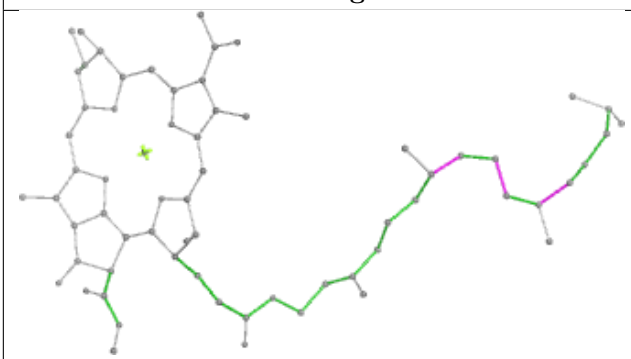
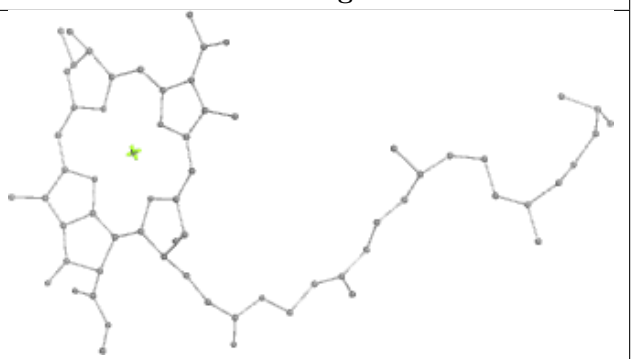


Bond angles

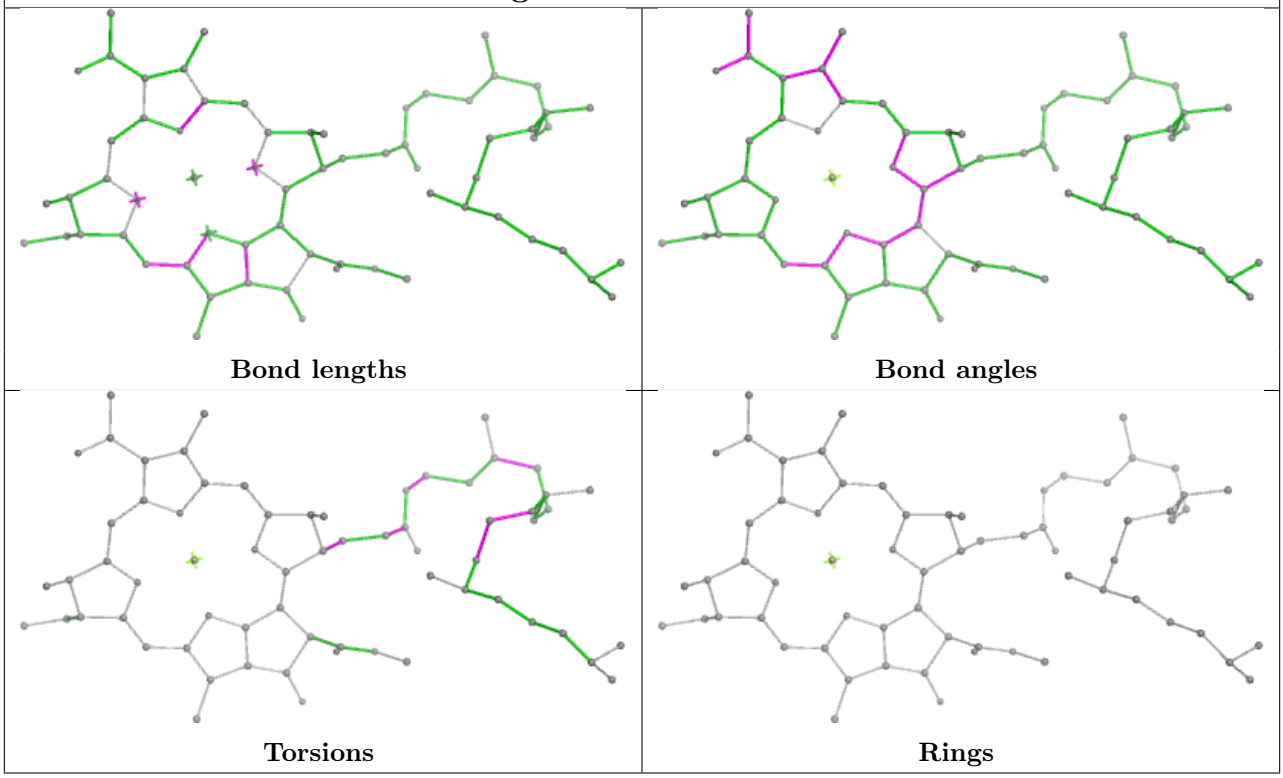


Torsions

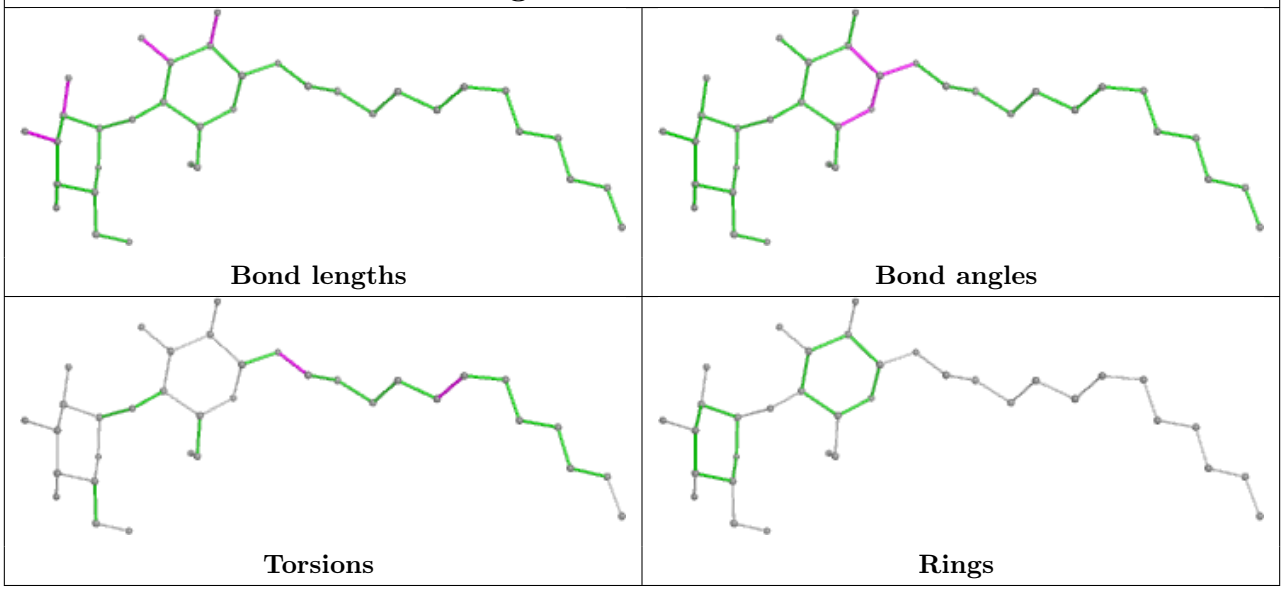


Rings

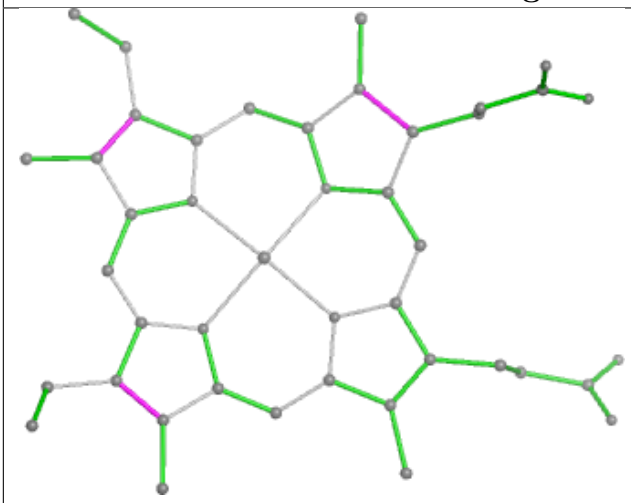
Ligand BCL ad 1001



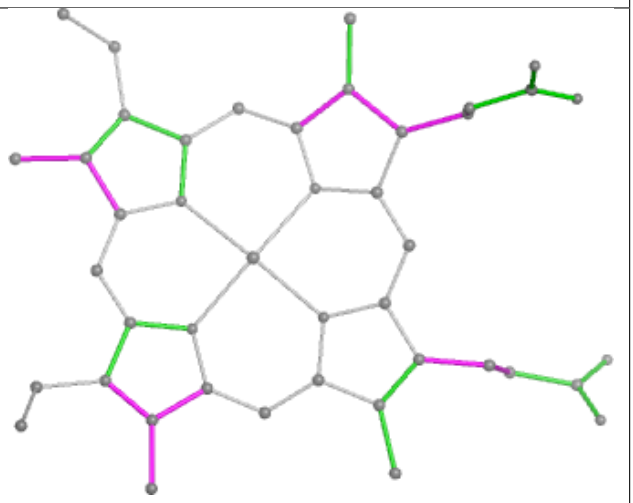
Ligand LMT BB 102



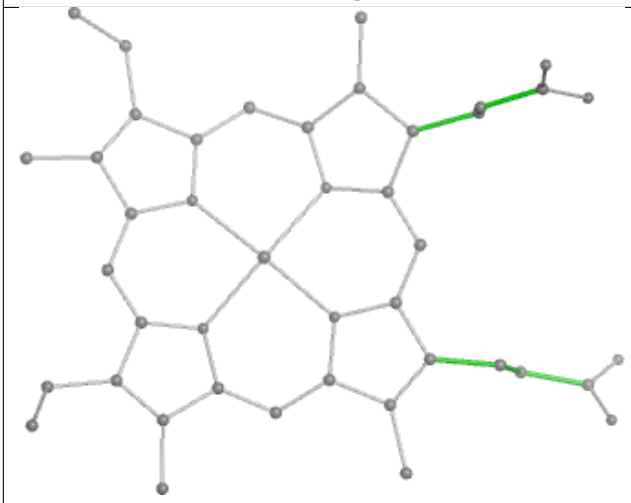
Ligand HEC C 402



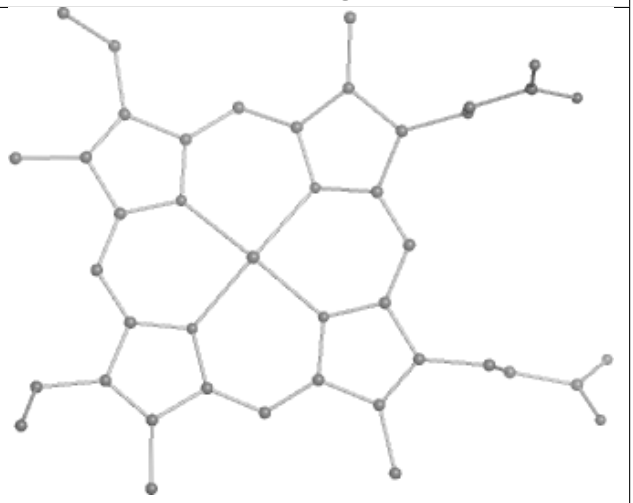
Bond lengths



Bond angles

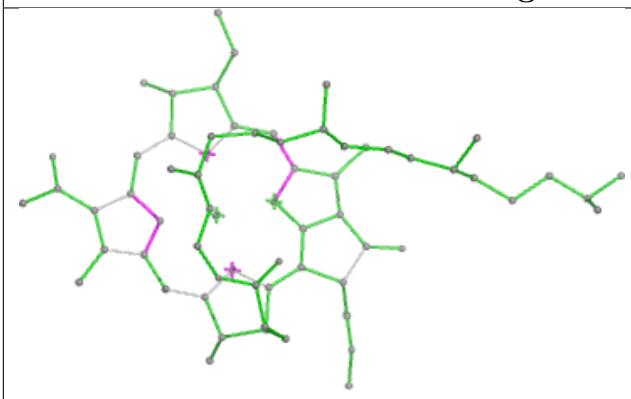


Torsions

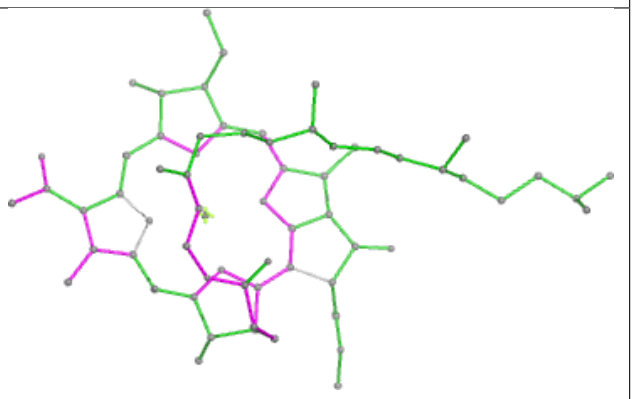


Rings

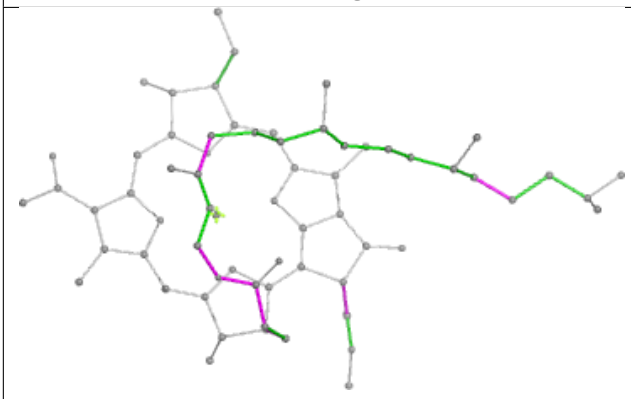
Ligand BCL AI 103



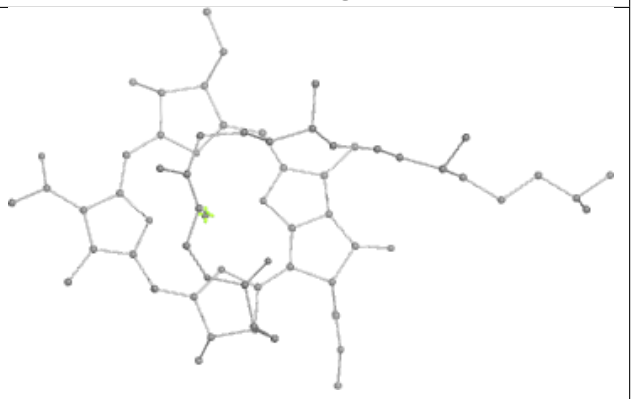
Bond lengths



Bond angles

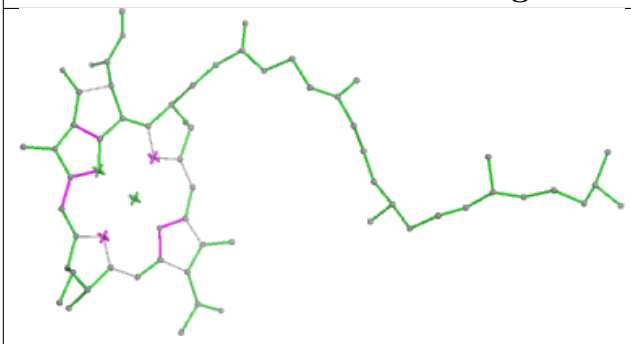


Torsions

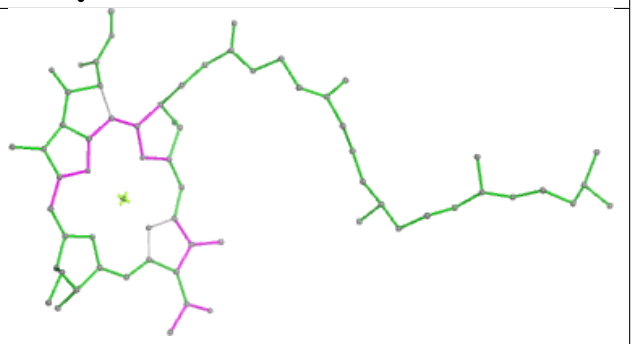


Rings

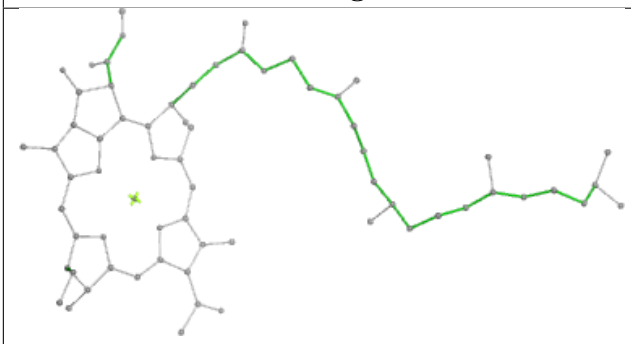
Ligand BCL AQ 102



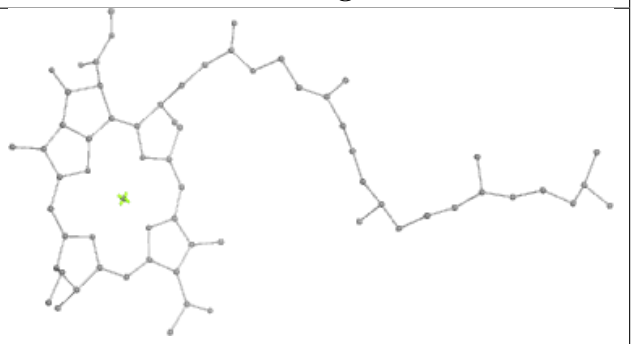
Bond lengths



Bond angles

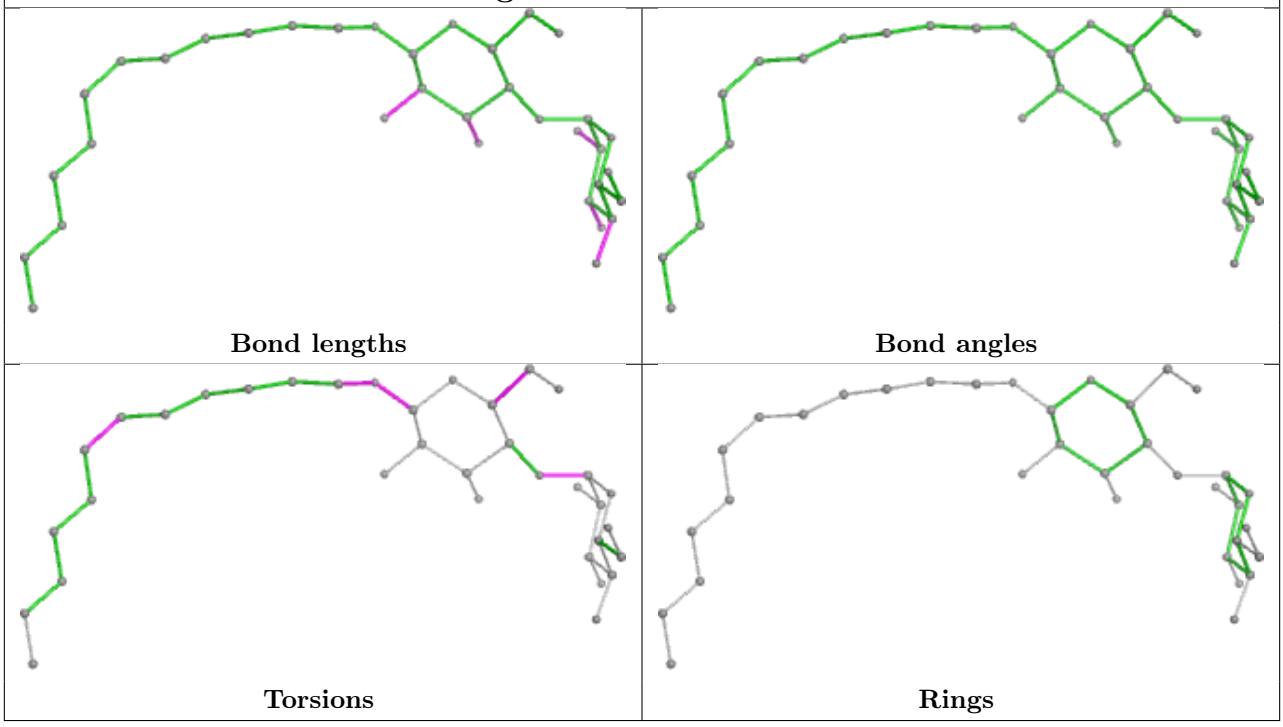


Torsions

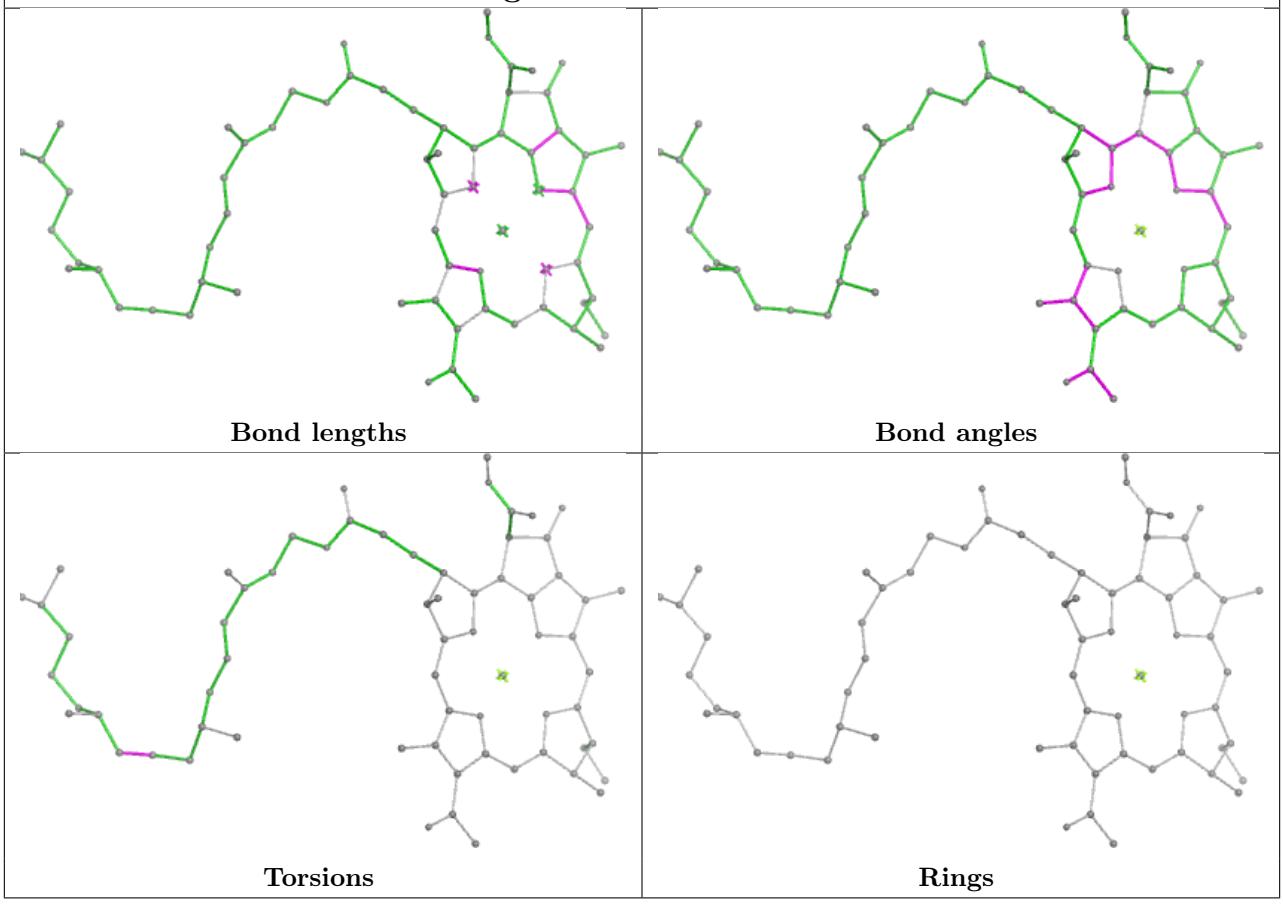


Rings

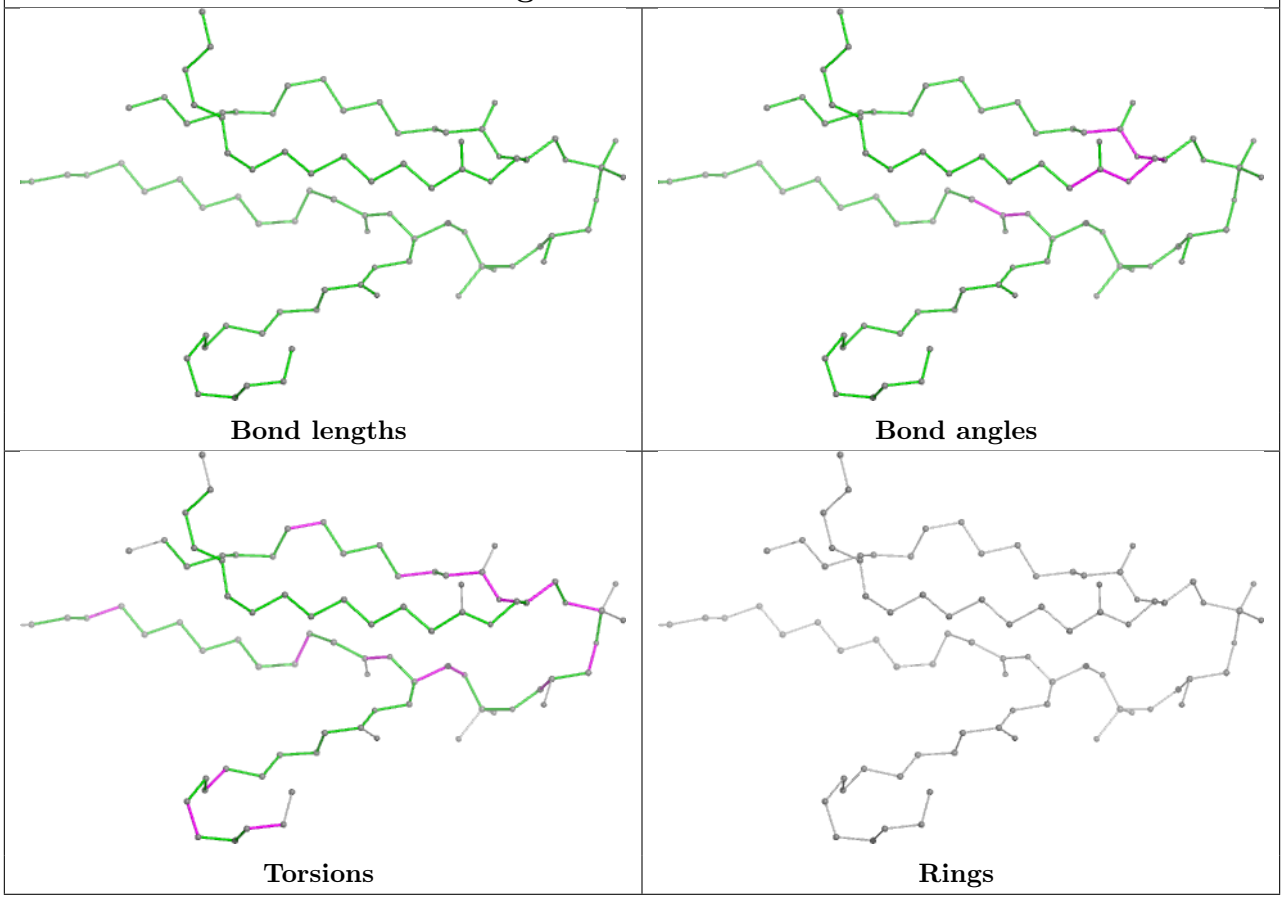
Ligand LMT BM 1003



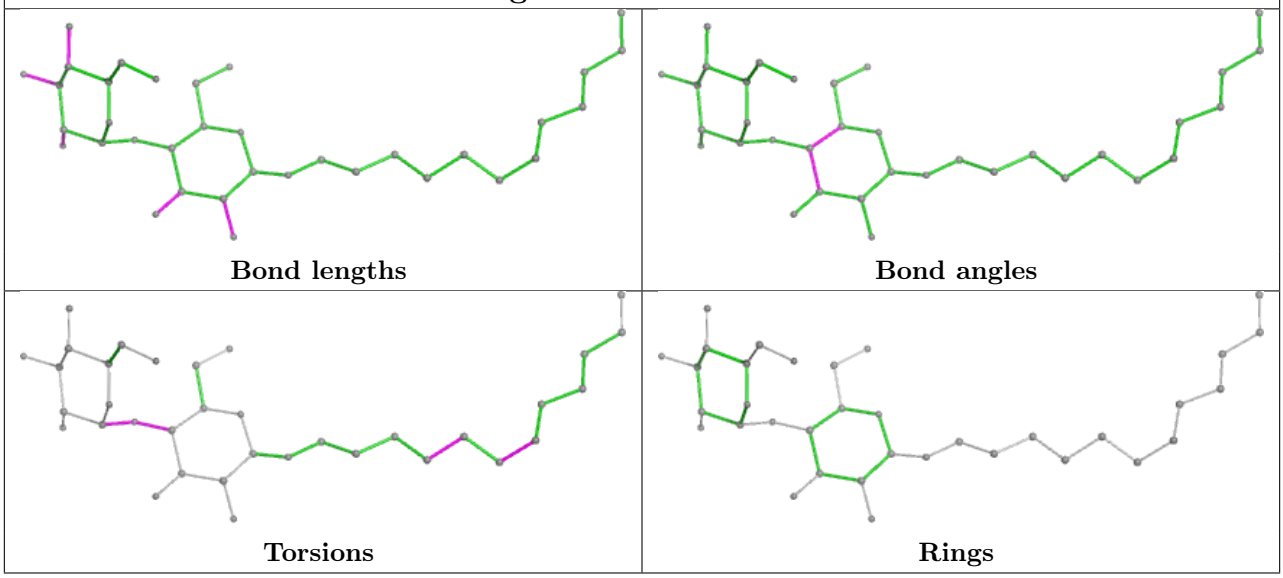
Ligand BCL AO 1002



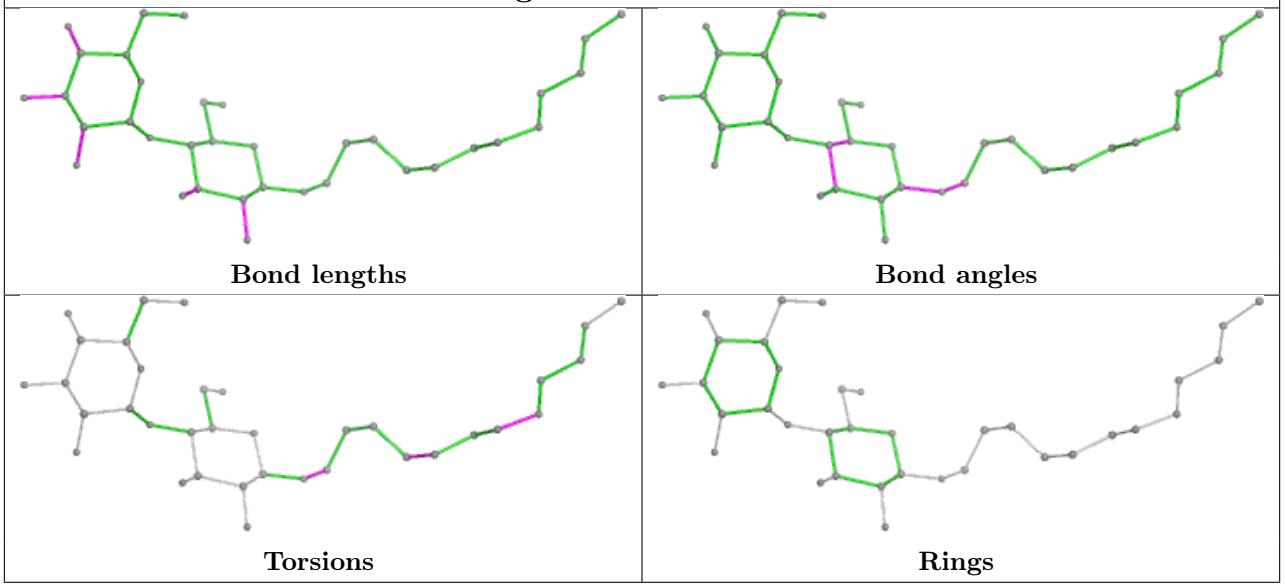
Ligand CD4 H1 102



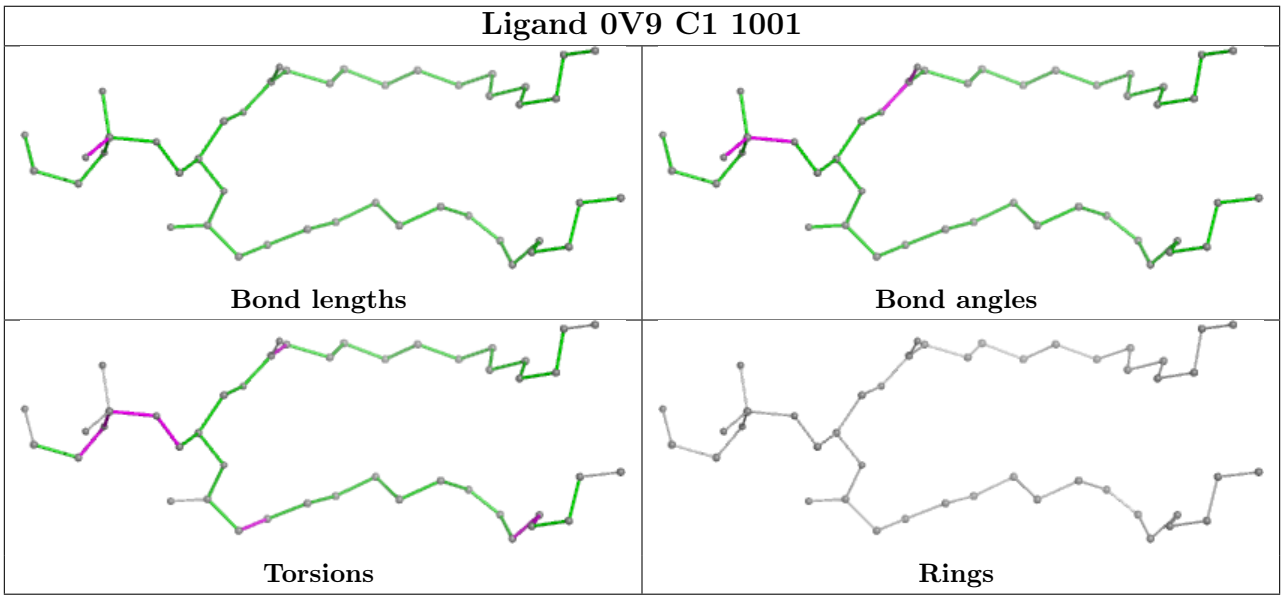
Ligand LMT BB 105



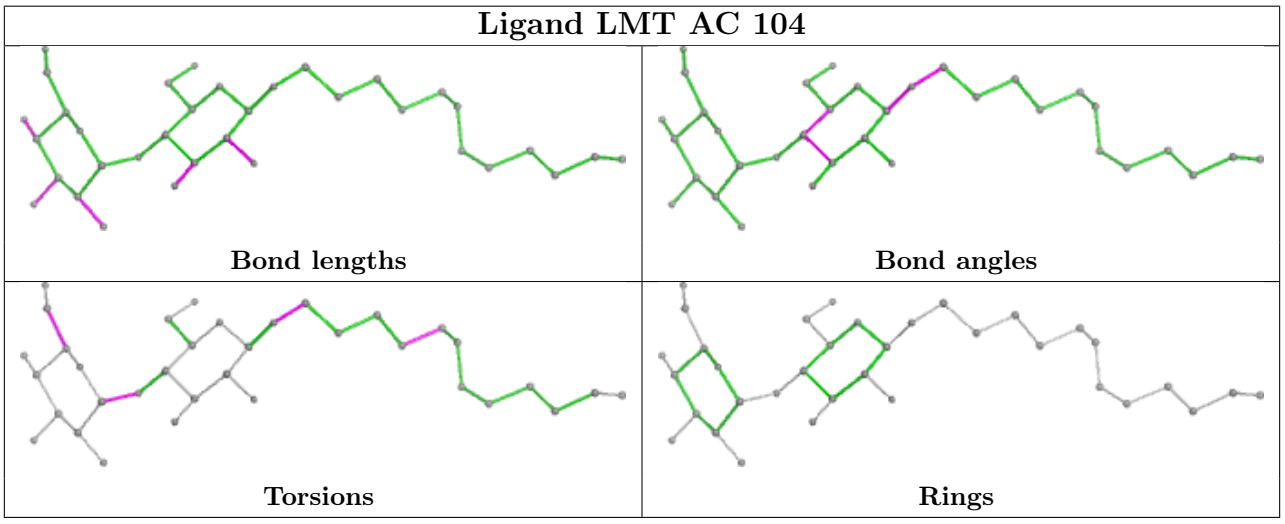
Ligand LMT L 1011



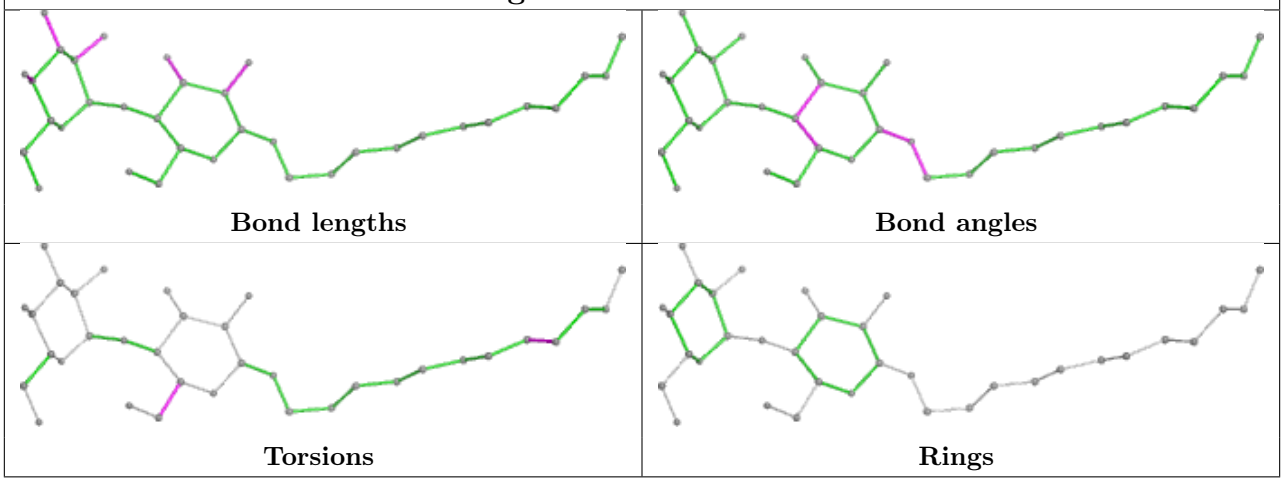
Ligand 0V9 C1 1001



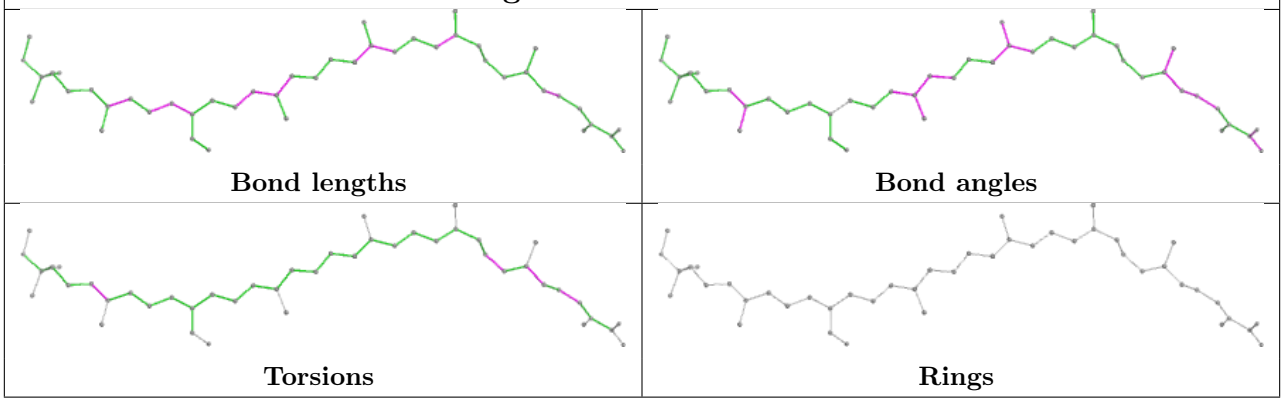
Ligand LMT AC 104



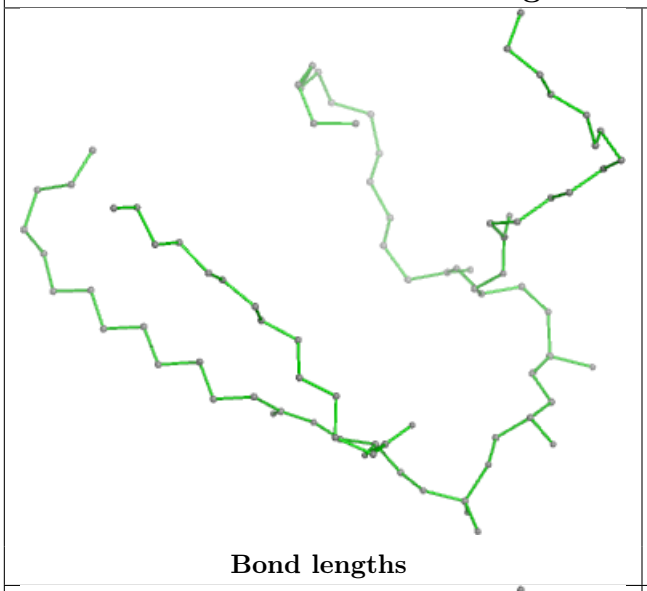
Ligand LMT AN 103



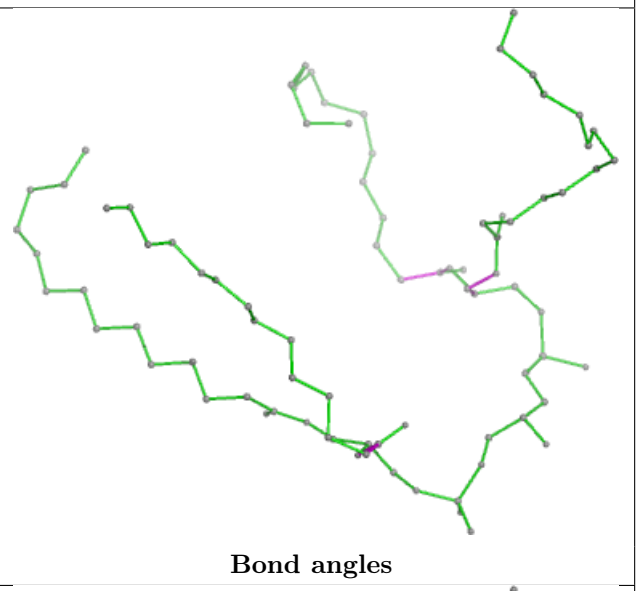
Ligand V7N BG 1001



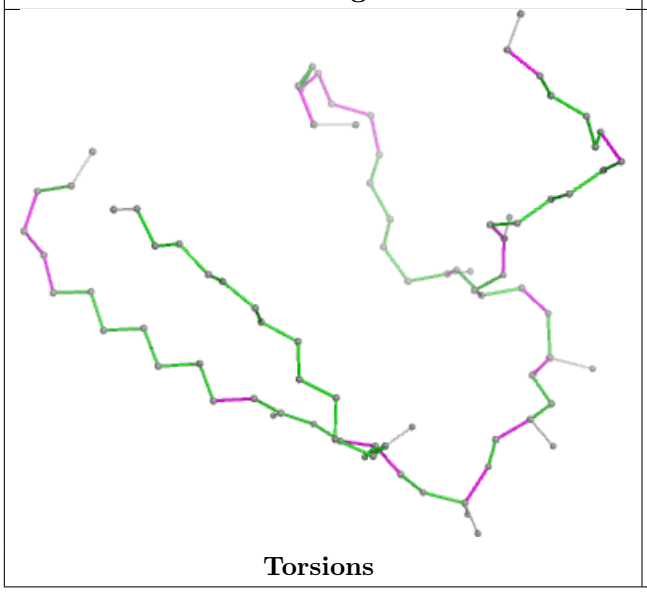
Ligand CD4 ae 101



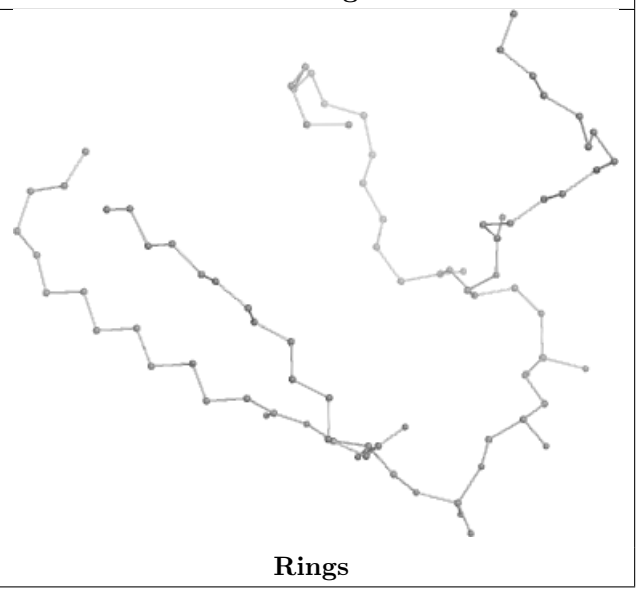
Bond lengths



Bond angles

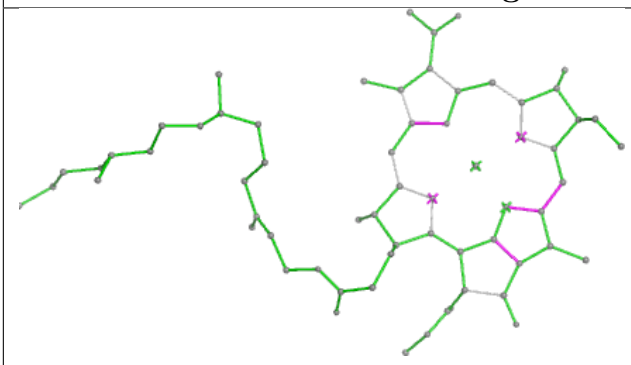


Torsions

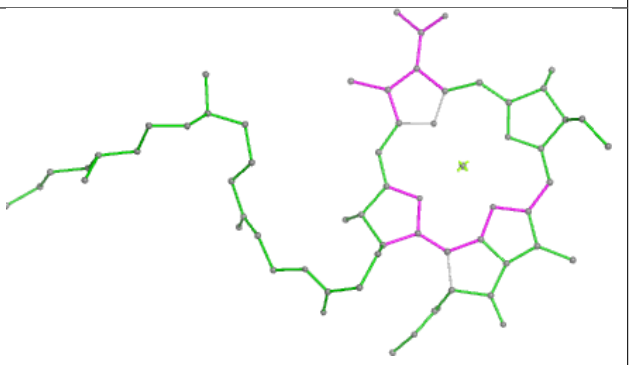


Rings

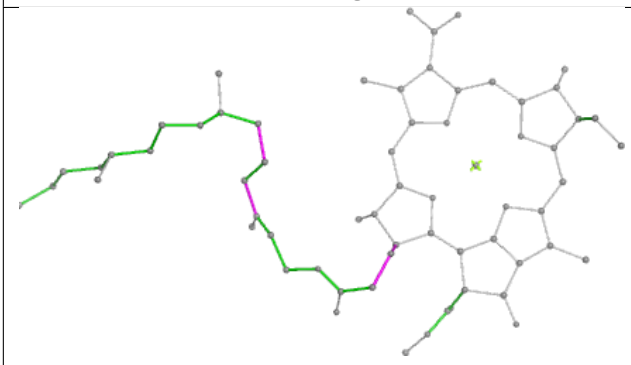
Ligand BCL BG 1004



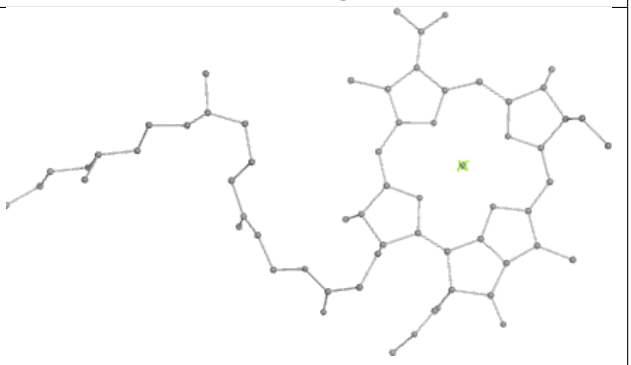
Bond lengths



Bond angles

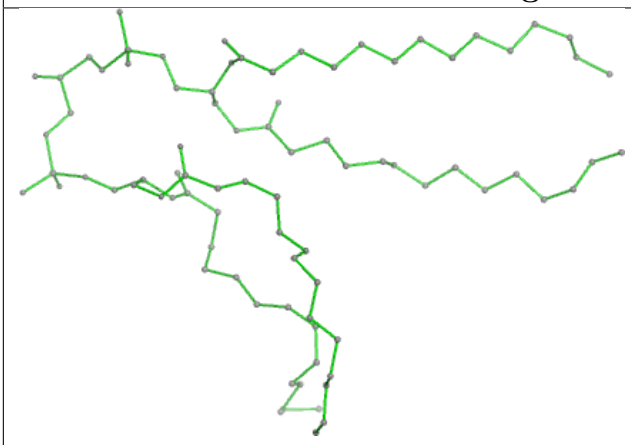


Torsions

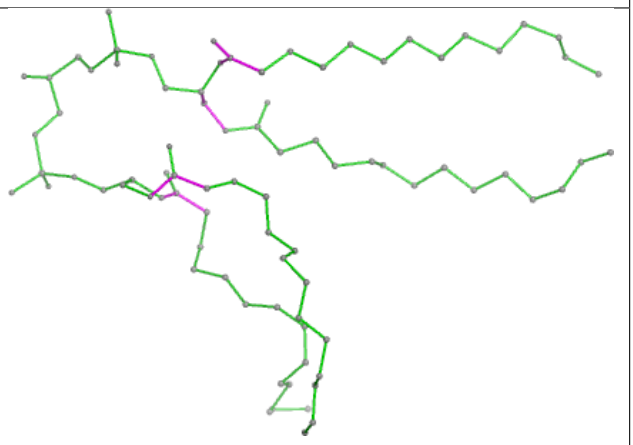


Rings

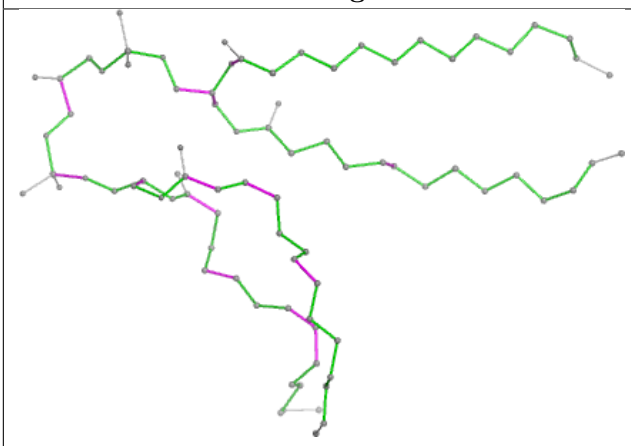
Ligand CD4 M 402



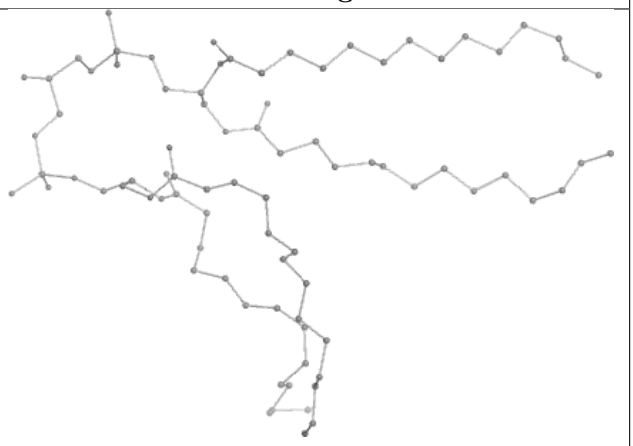
Bond lengths



Bond angles

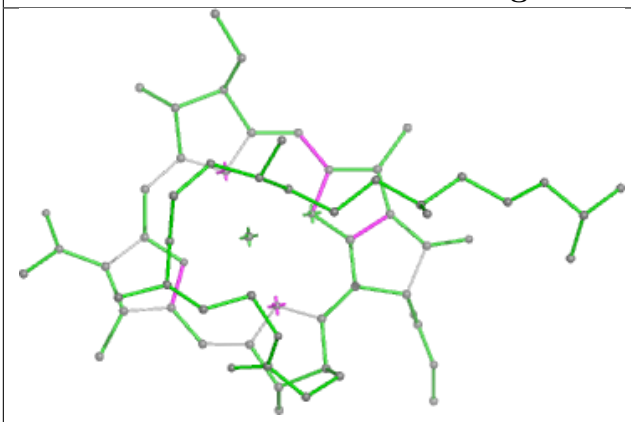


Torsions

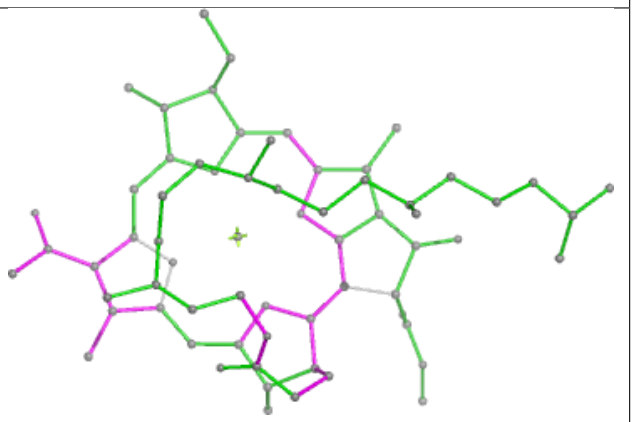


Rings

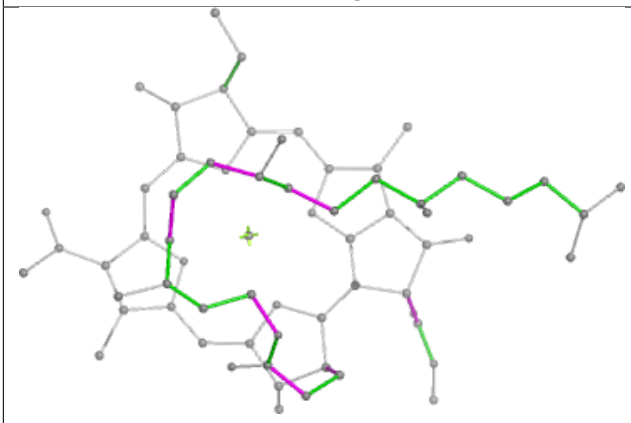
Ligand BCL AK 101



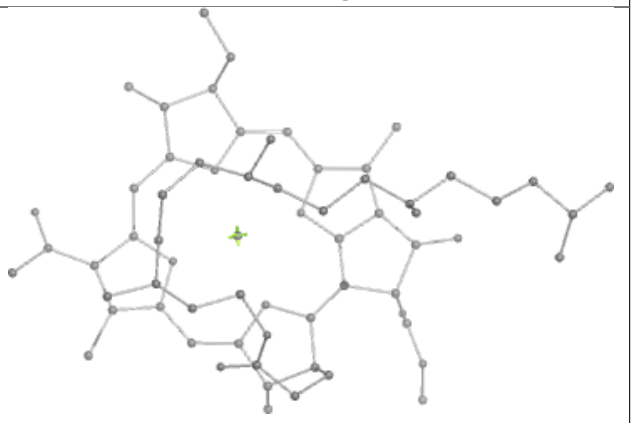
Bond lengths



Bond angles

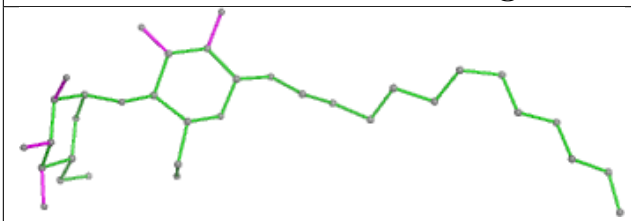


Torsions

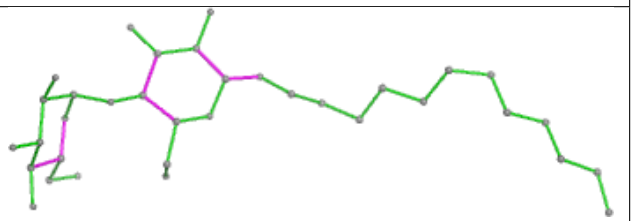


Rings

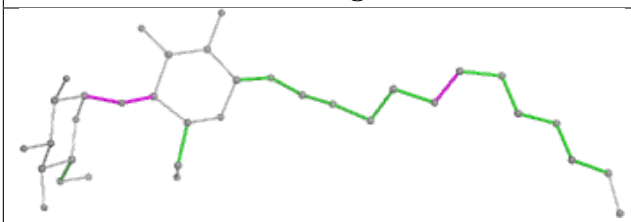
Ligand LMT BR 1002



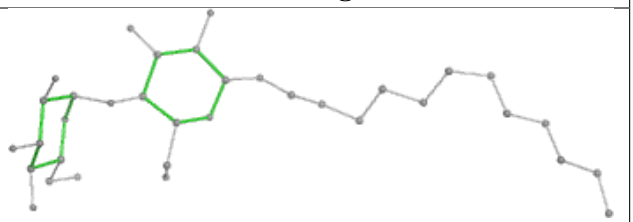
Bond lengths



Bond angles

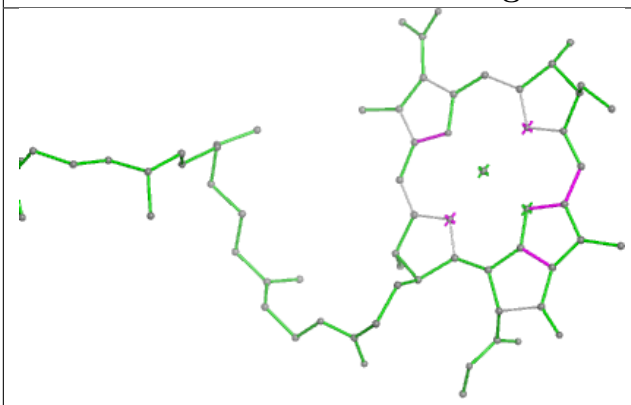


Torsions

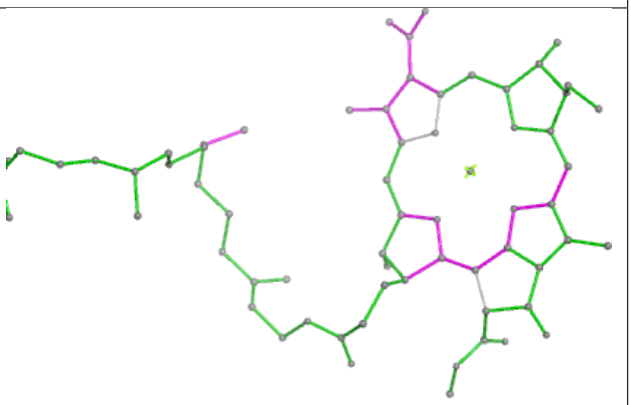


Rings

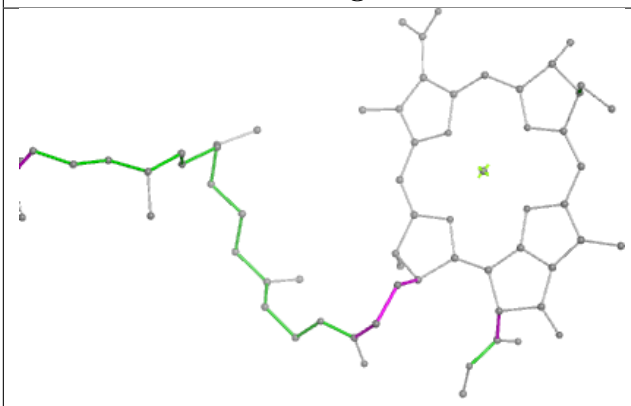
Ligand BCL BU 1004



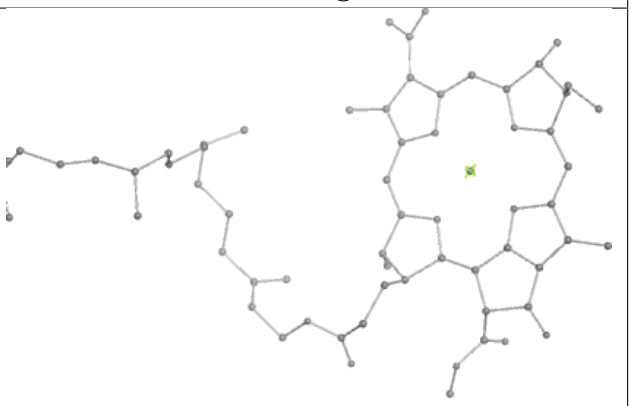
Bond lengths



Bond angles

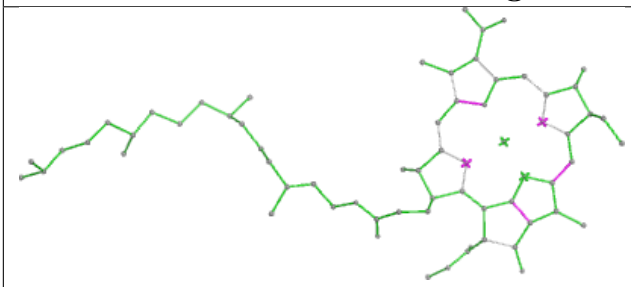


Torsions

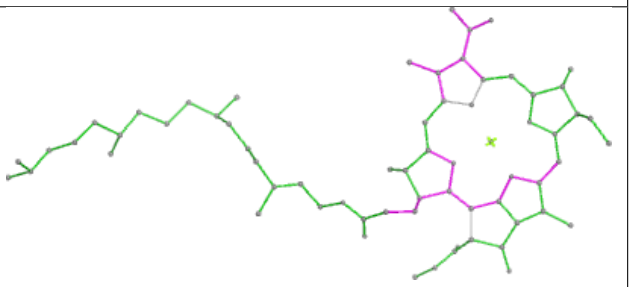


Rings

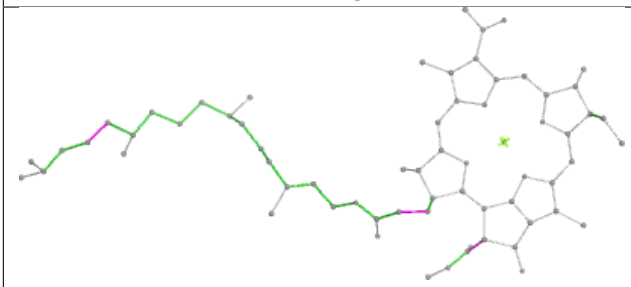
Ligand BCL BL 1003



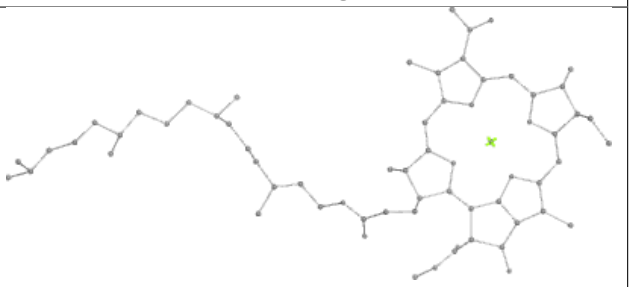
Bond lengths



Bond angles

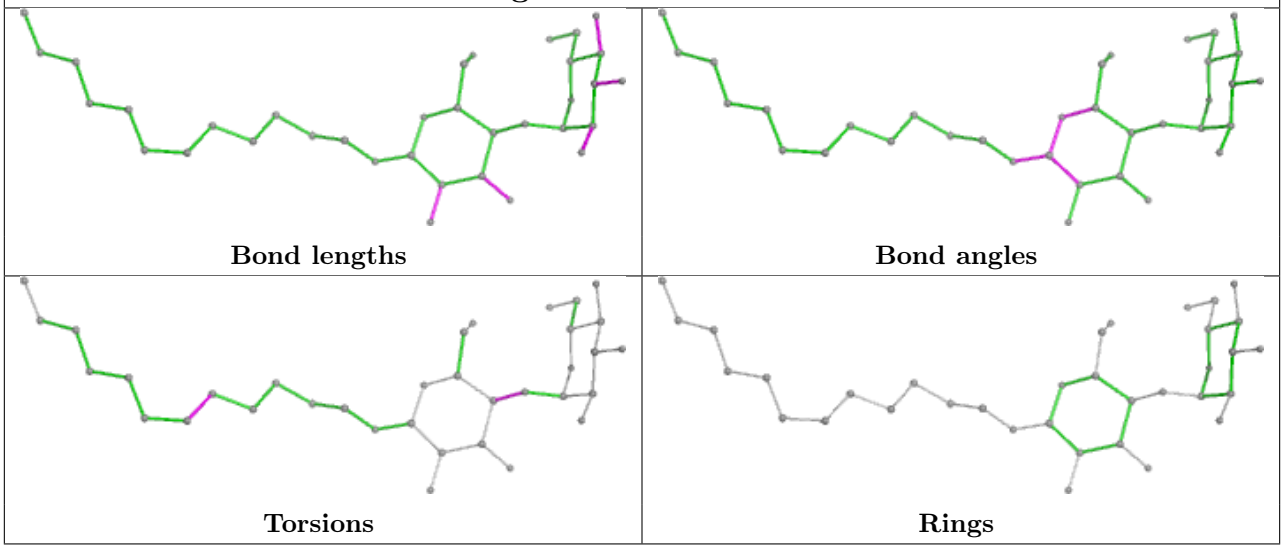


Torsions

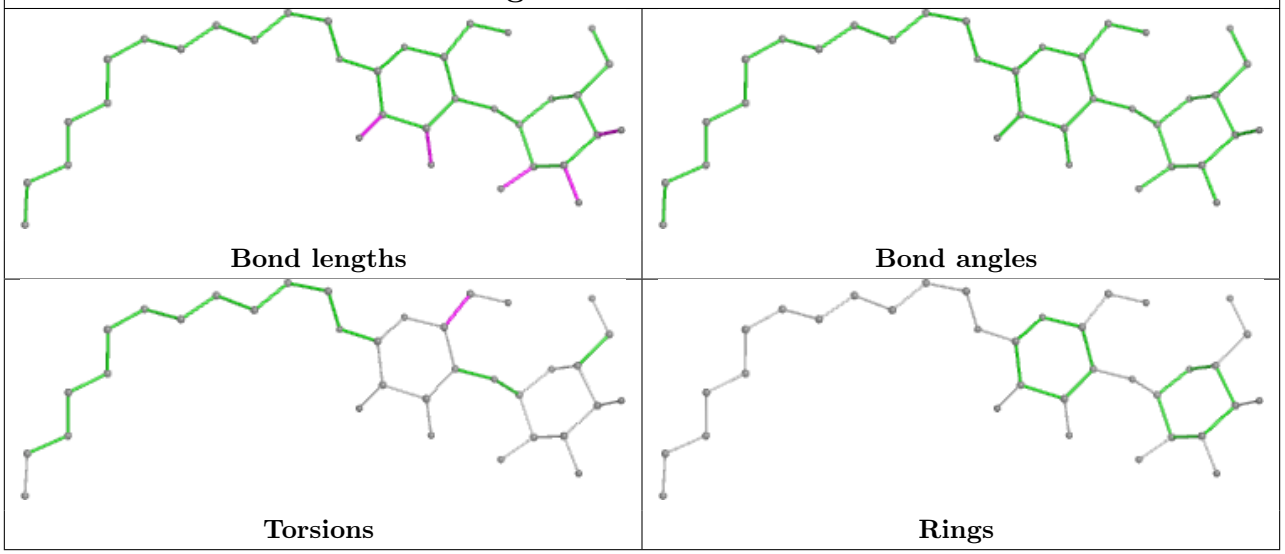


Rings

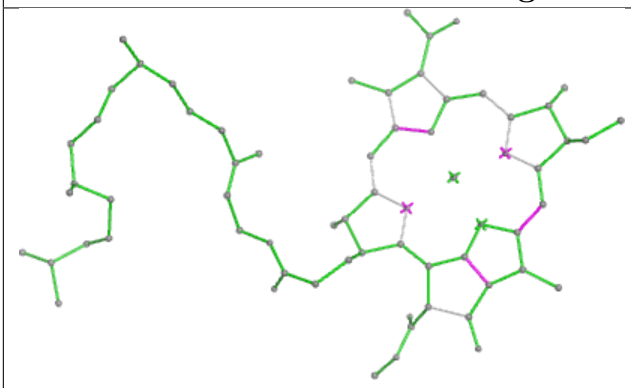
Ligand LMT BF 101



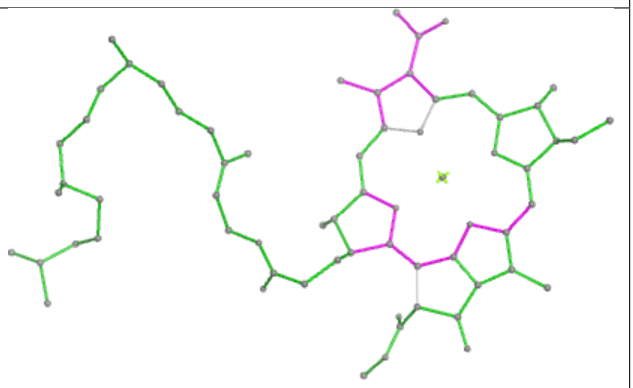
Ligand LMT BI 1005



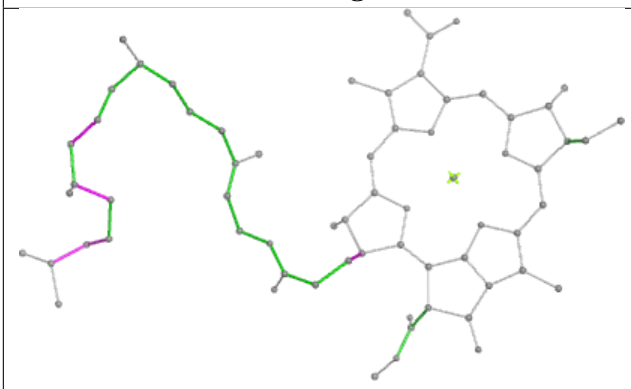
Ligand BCL bb 104



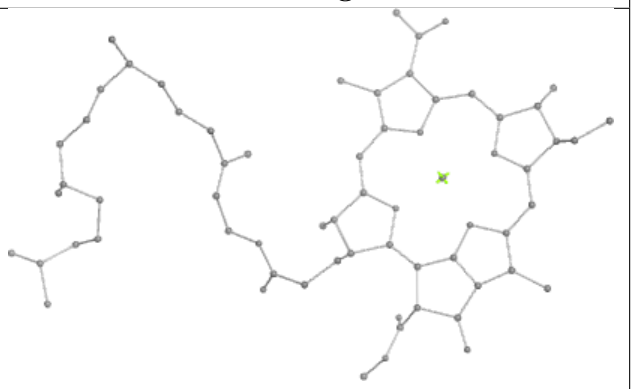
Bond lengths



Bond angles



Torsions



Rings

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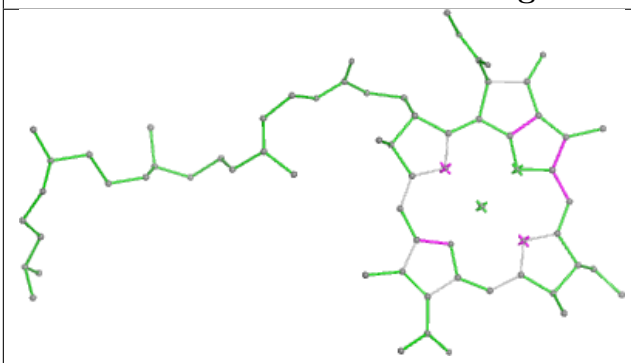
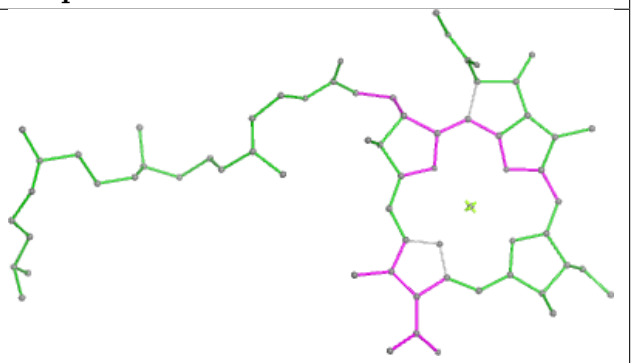
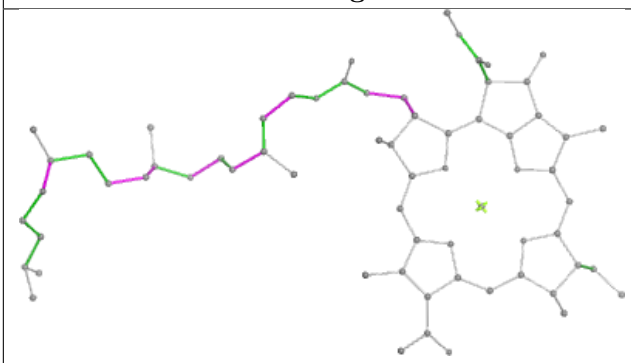


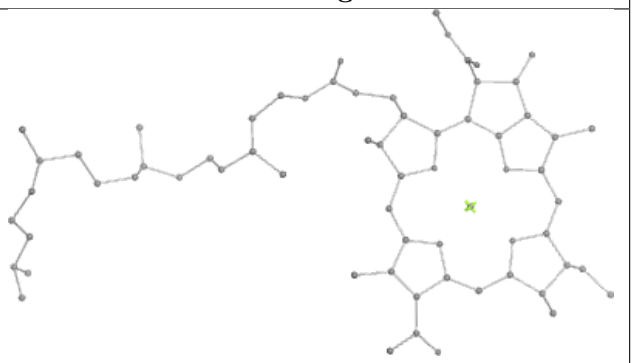
Bond lengths



Bond angles

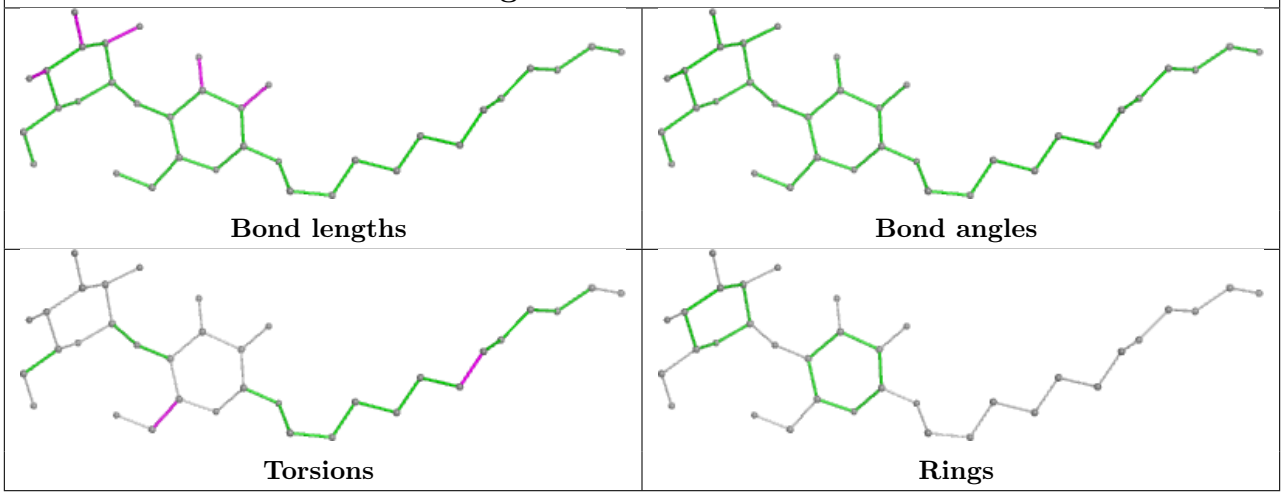


Torsions

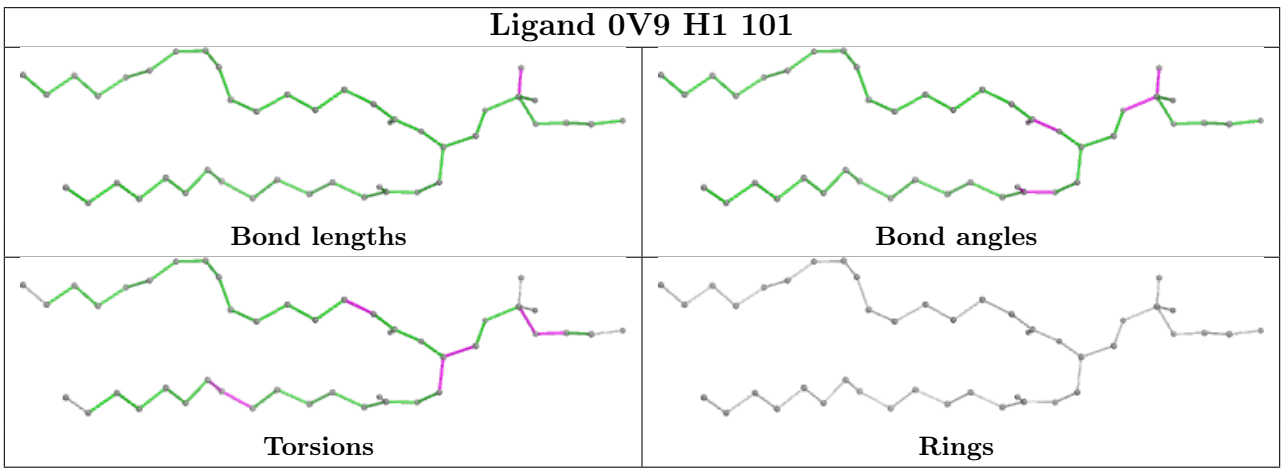


Rings

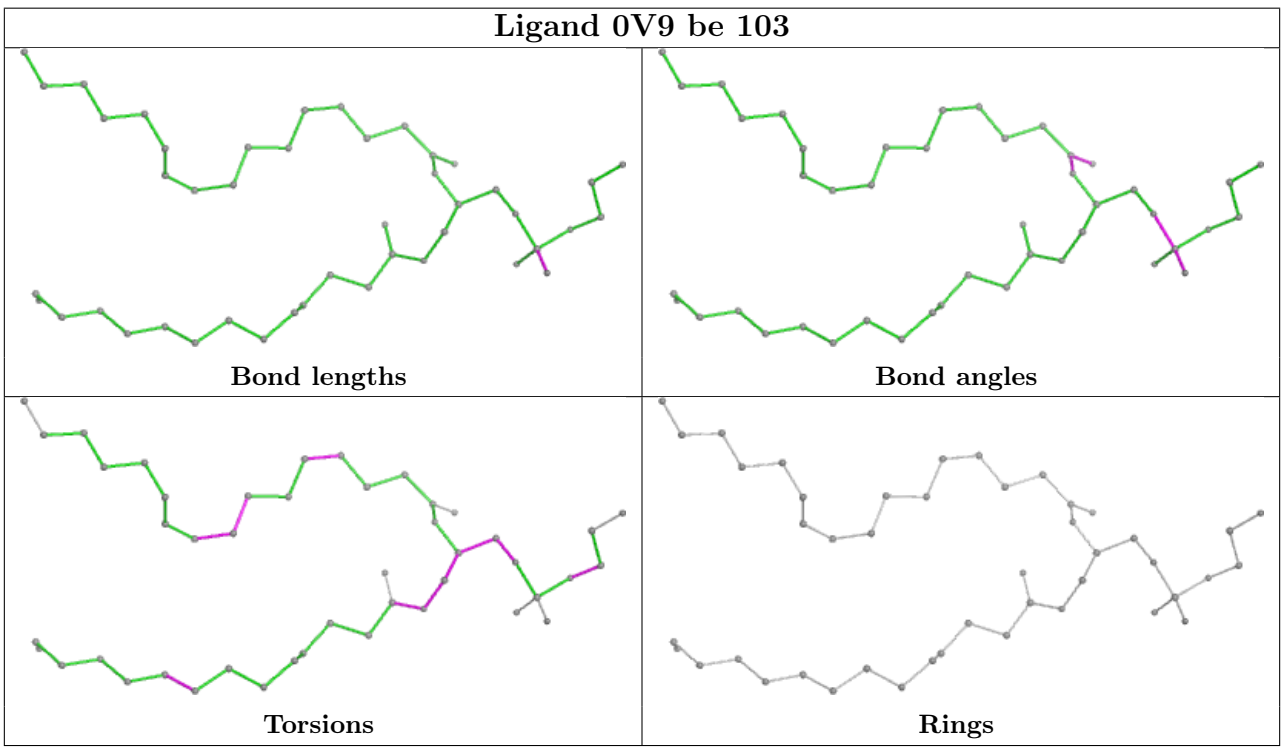
Ligand LMT BV 1006



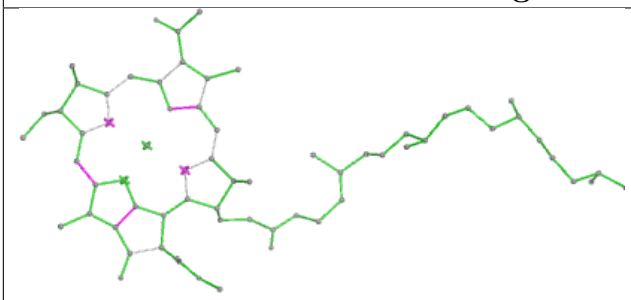
Ligand 0V9 H1 101



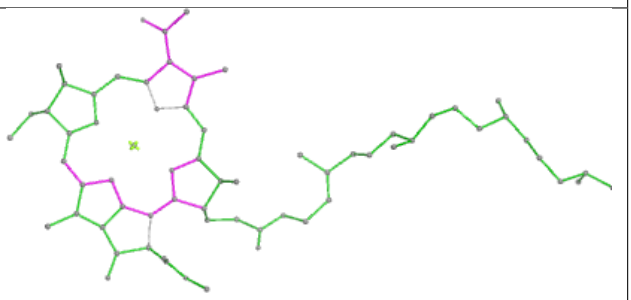
Ligand 0V9 be 103



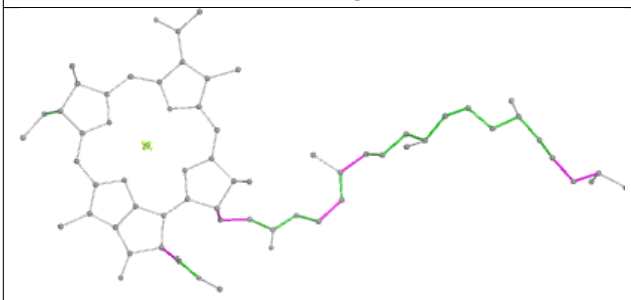
Ligand BCL BB 103



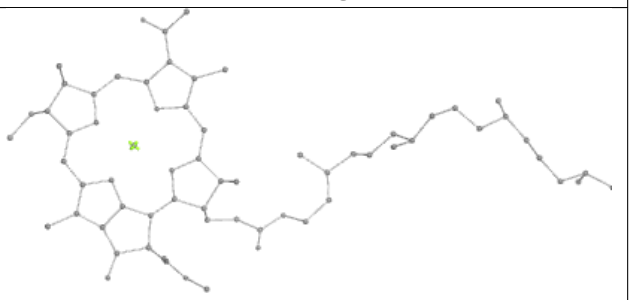
Bond lengths



Bond angles

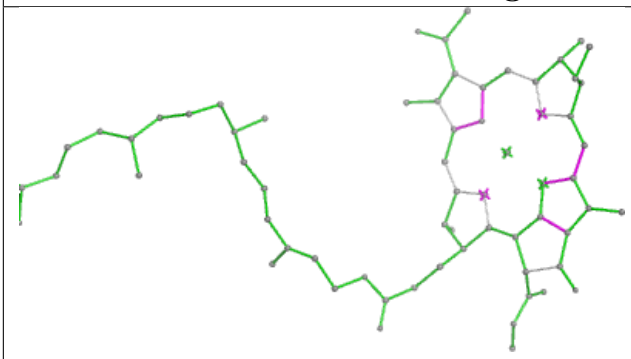


Torsions

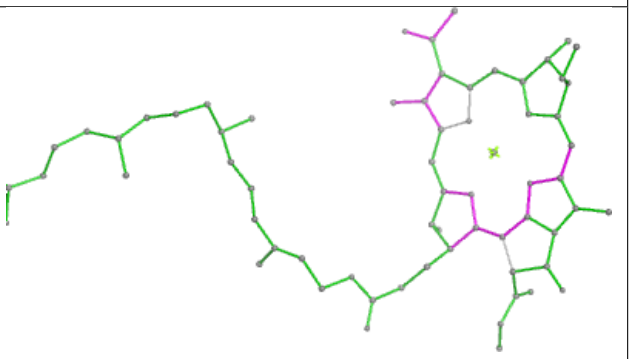


Rings

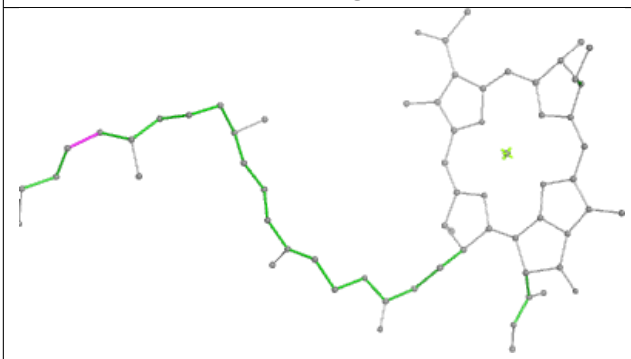
Ligand BCL AE 1001



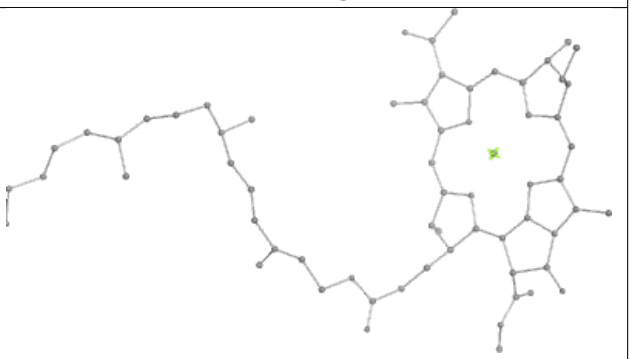
Bond lengths



Bond angles

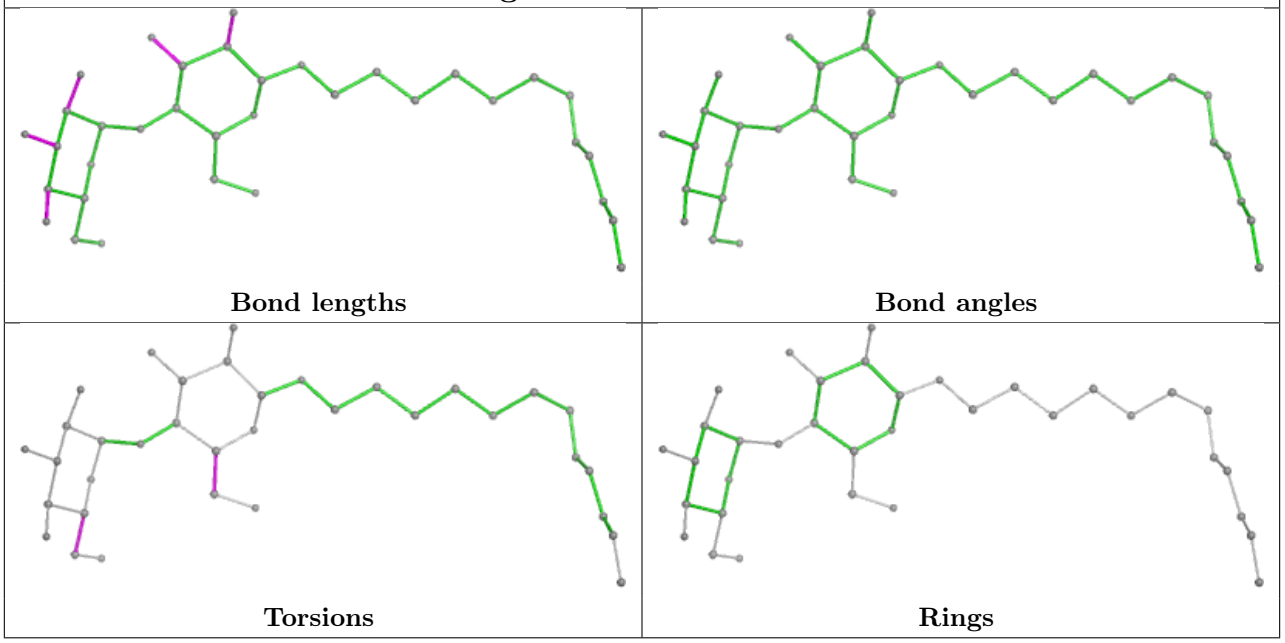


Torsions

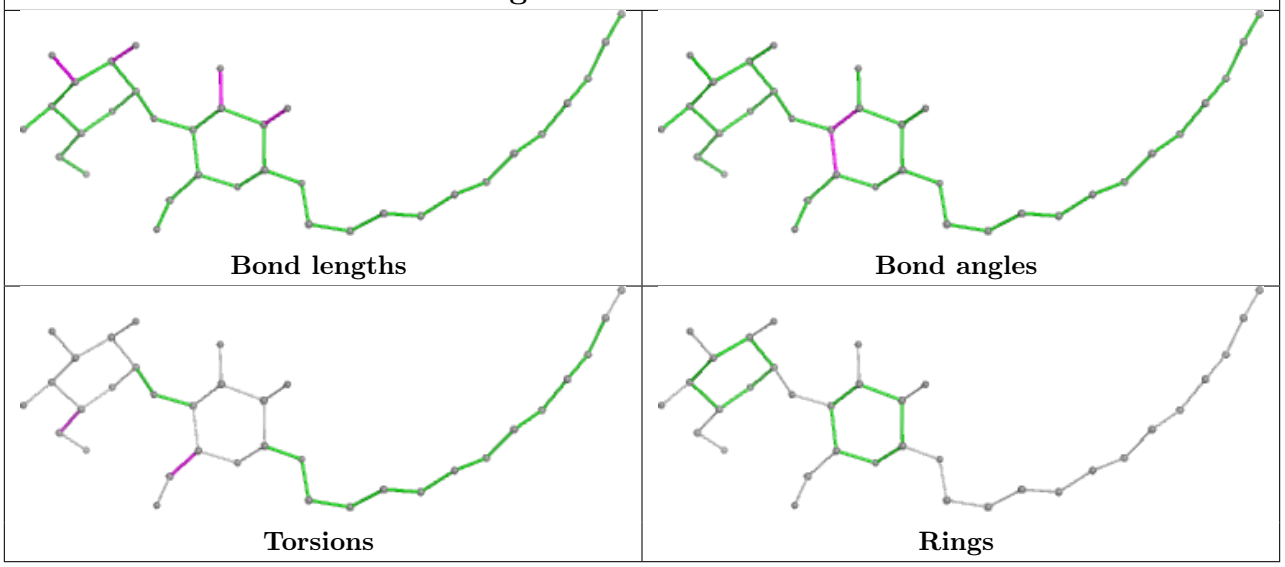


Rings

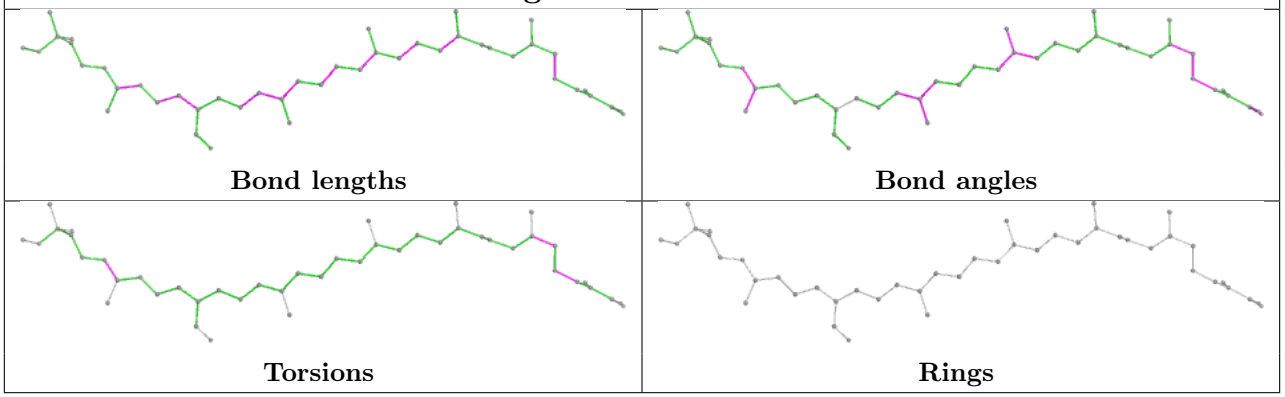
Ligand LMT BV 1003



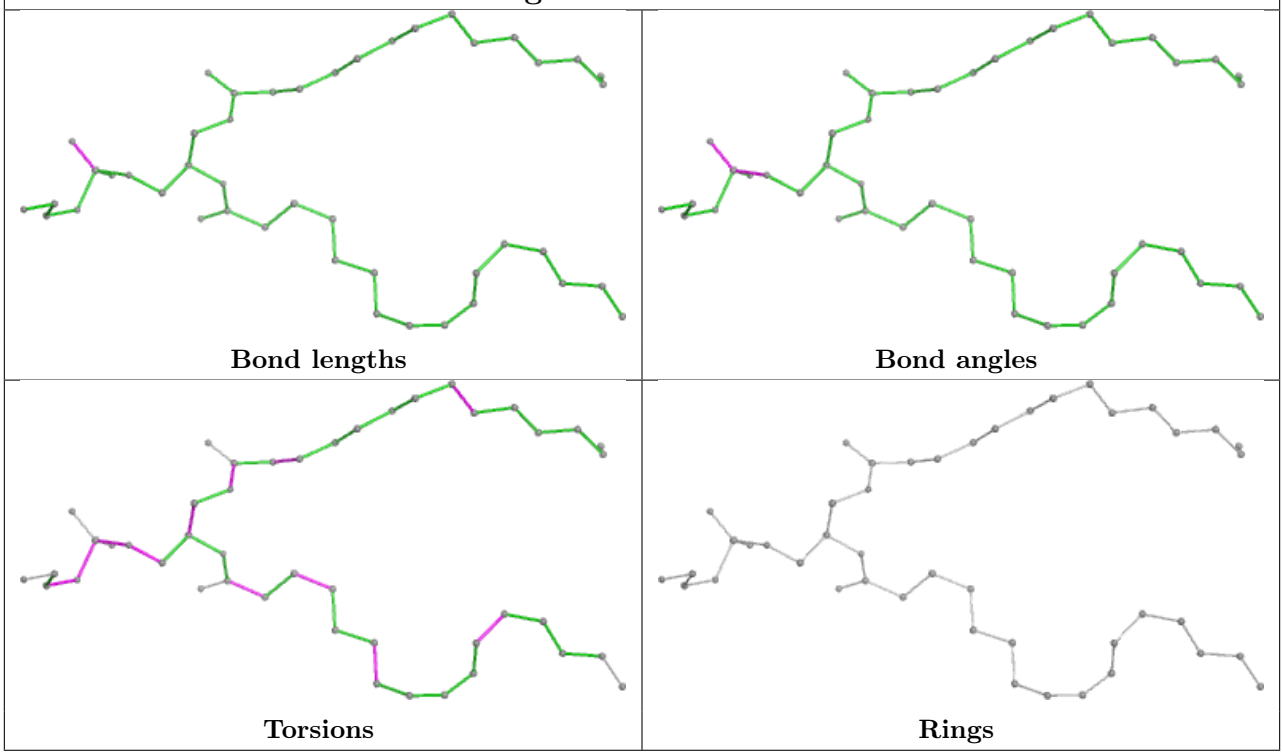
Ligand LMT BC 106



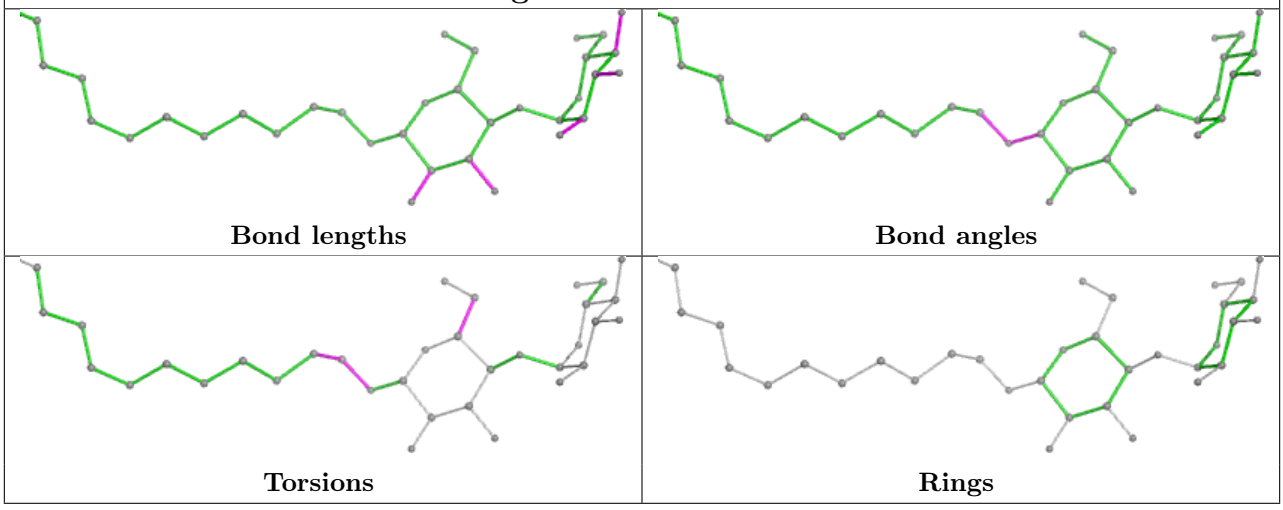
Ligand V7N bf 101



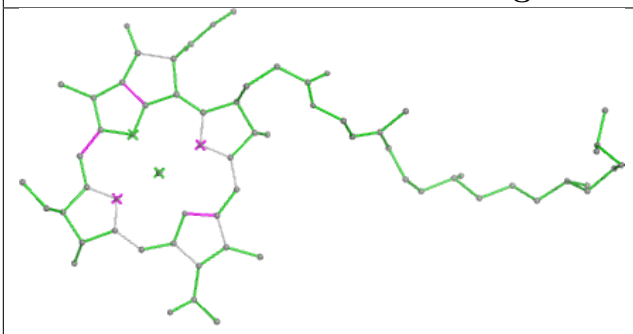
Ligand 0V9 bk 104



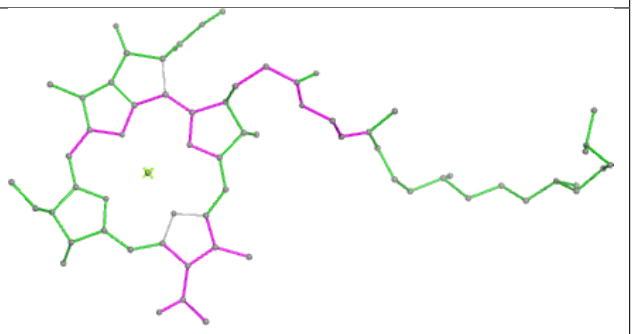
Ligand LMT BF 103



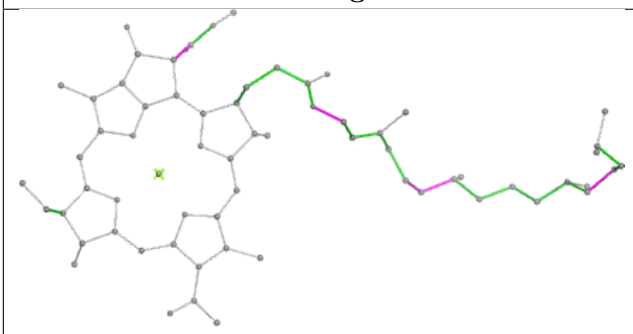
Ligand BCL BE 104



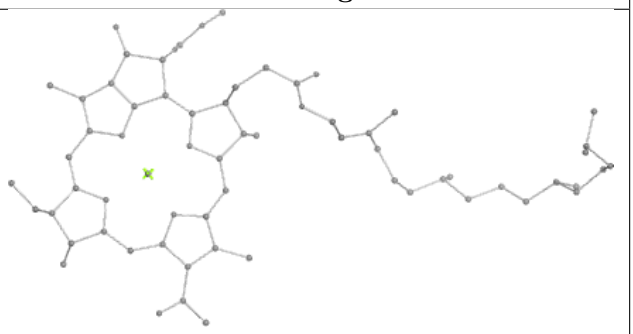
Bond lengths



Bond angles

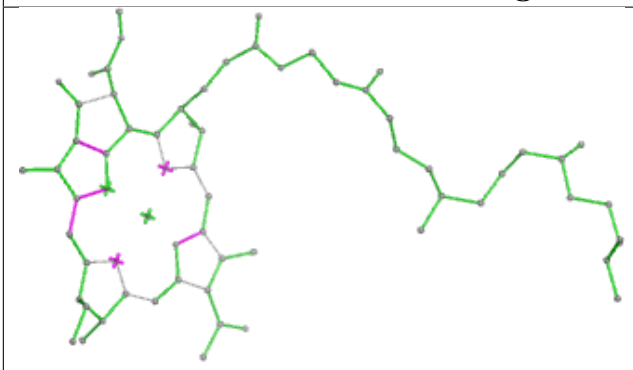


Torsions

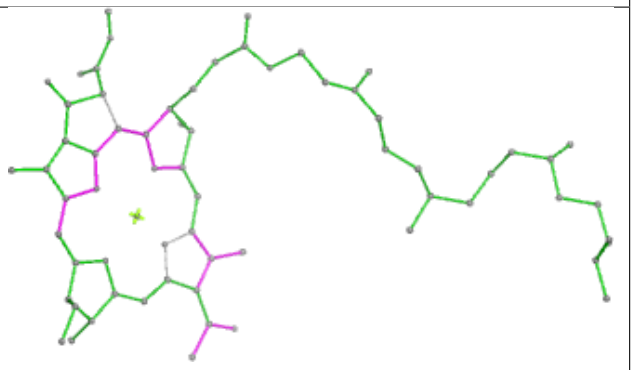


Rings

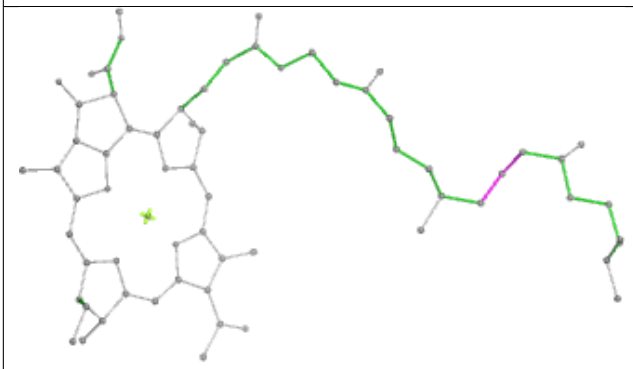
Ligand BCL AS 103



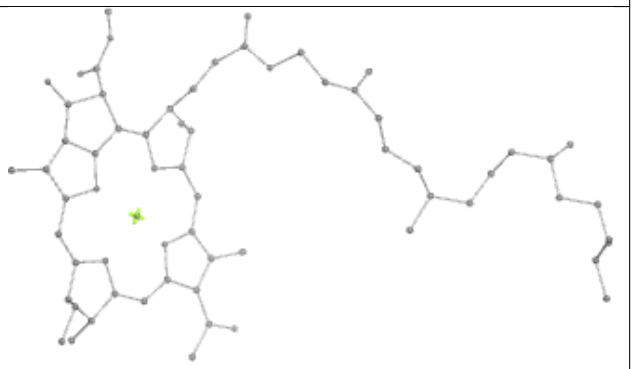
Bond lengths



Bond angles

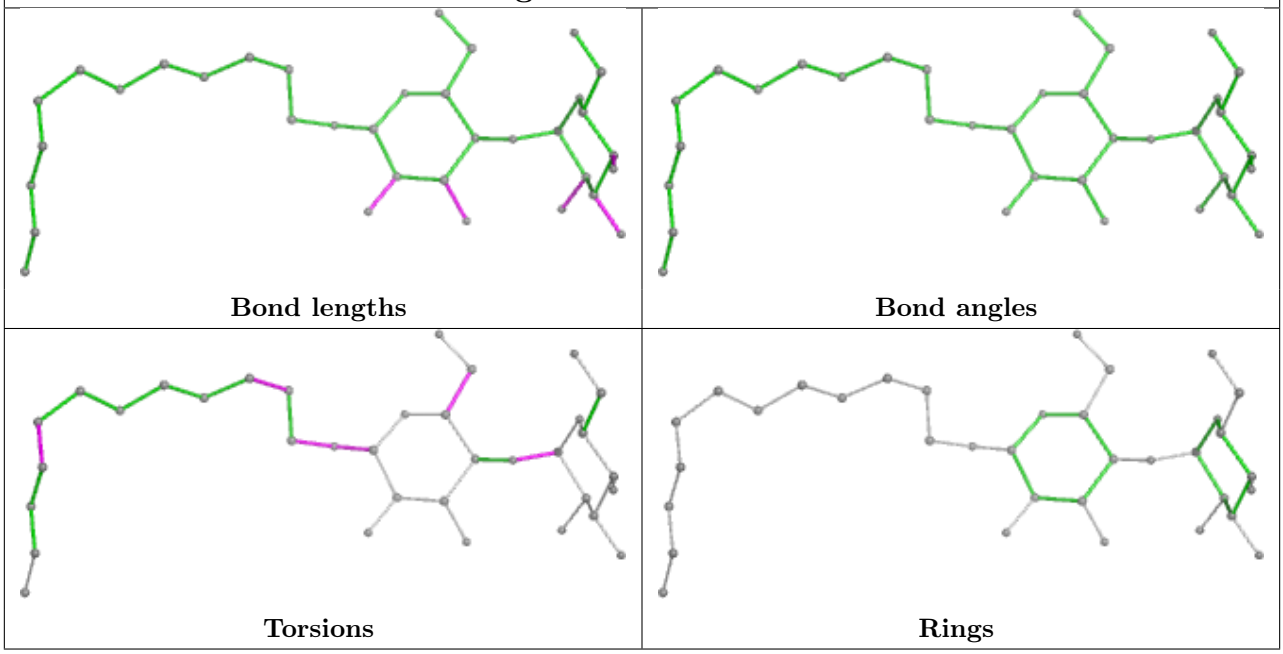


Torsions

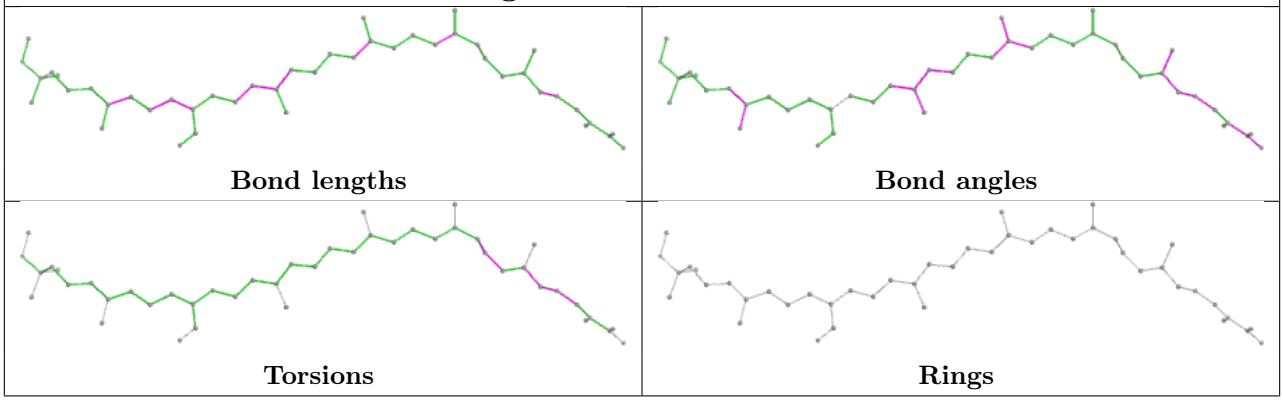


Rings

Ligand LMT L 1003



Ligand V7N BM 1001



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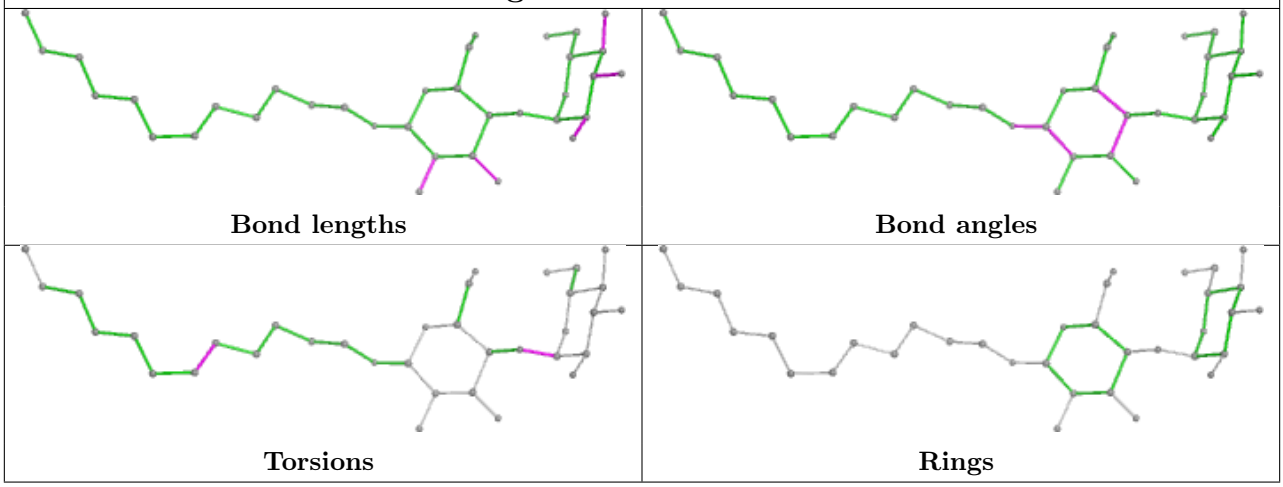

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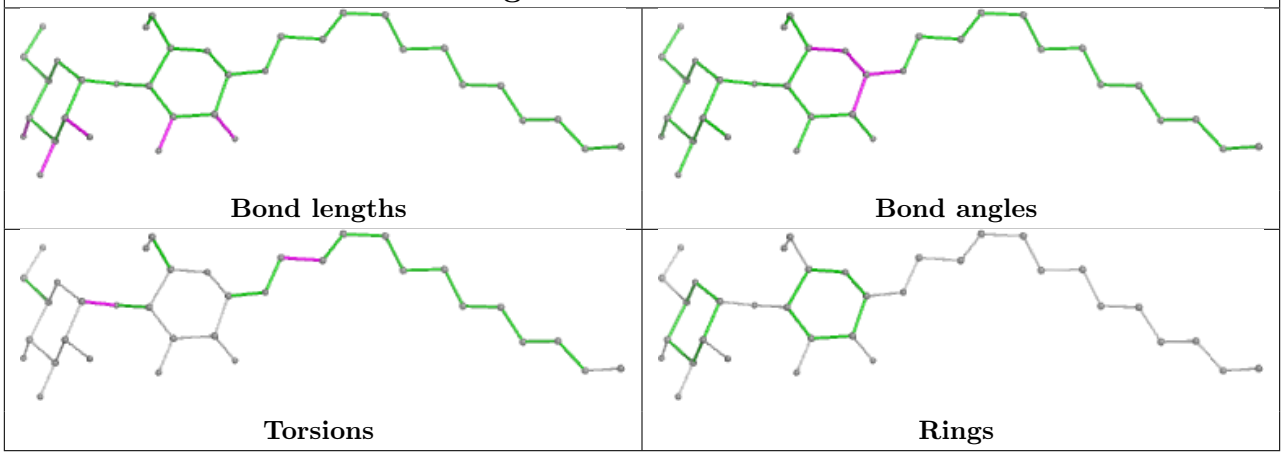
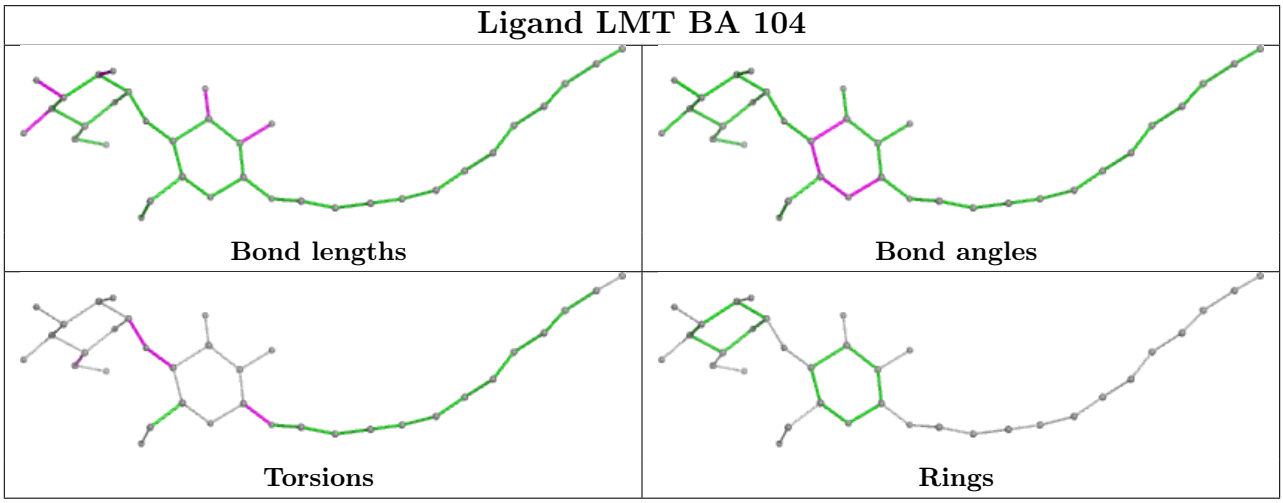
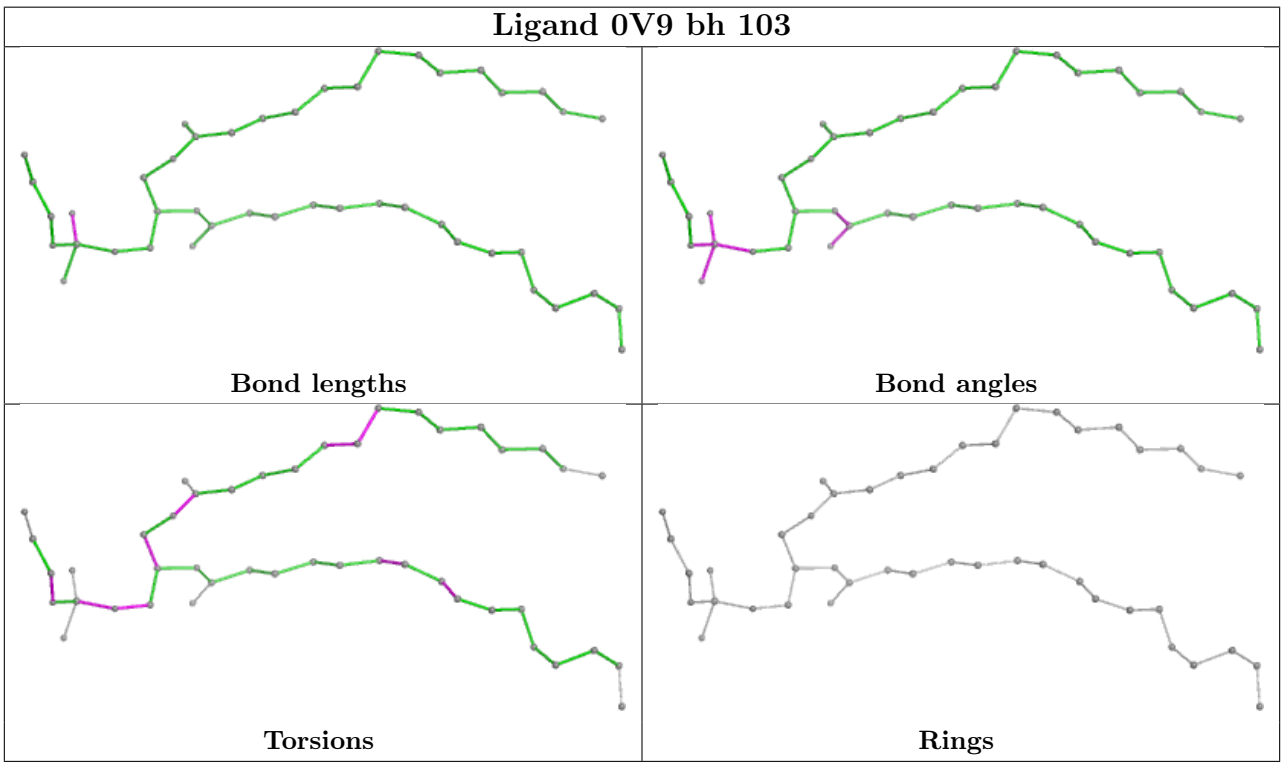


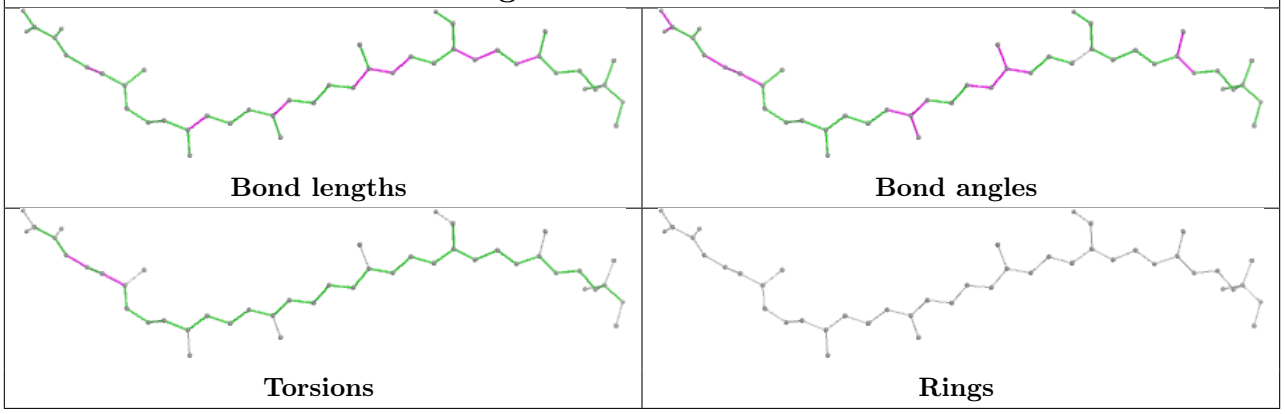
Ligand LMT BA 104



Ligand 0V9 bh 103



Ligand V7N BW 1001



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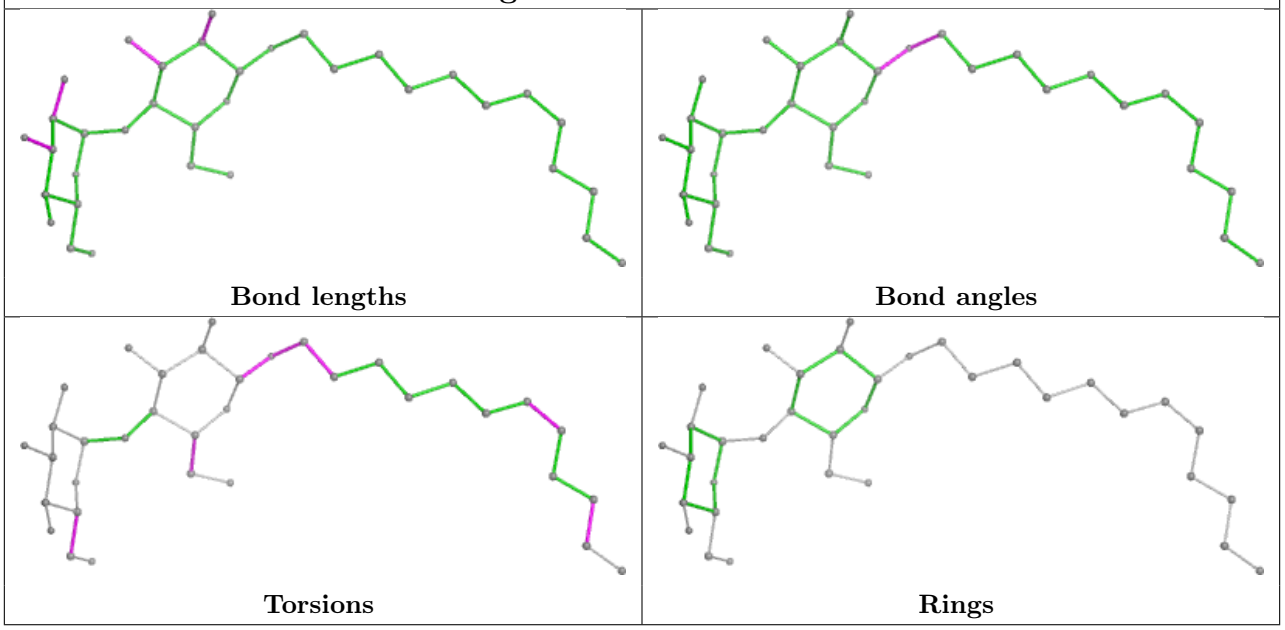
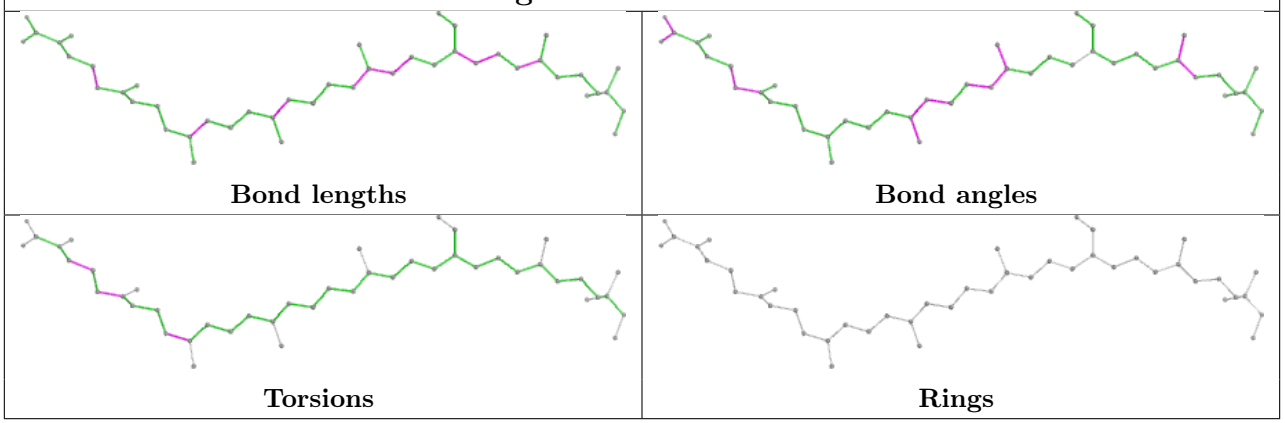
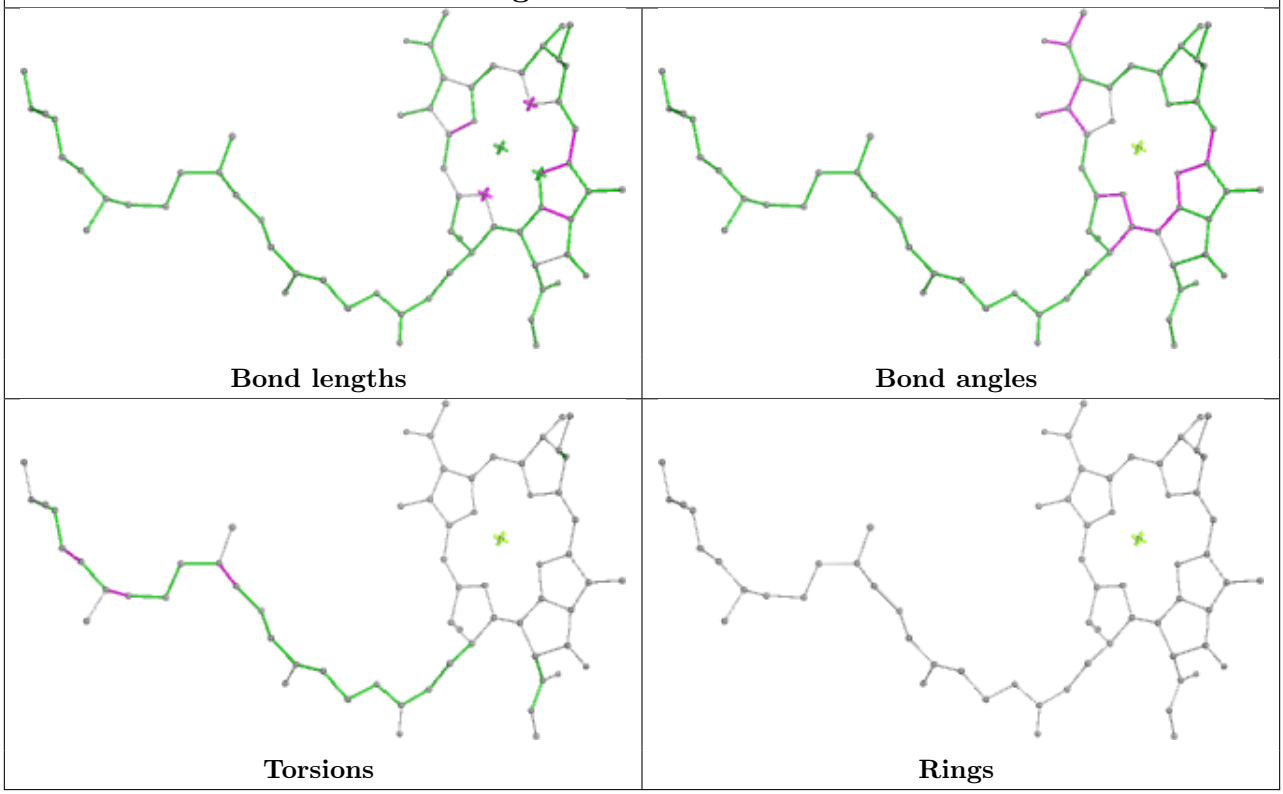


Ligand V7N AS 105



Ligand BCL AG 102



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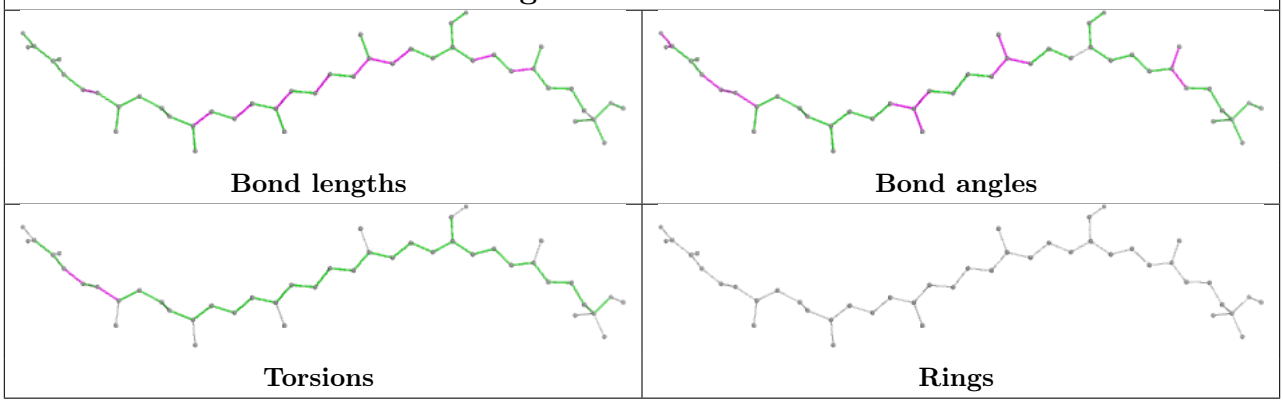

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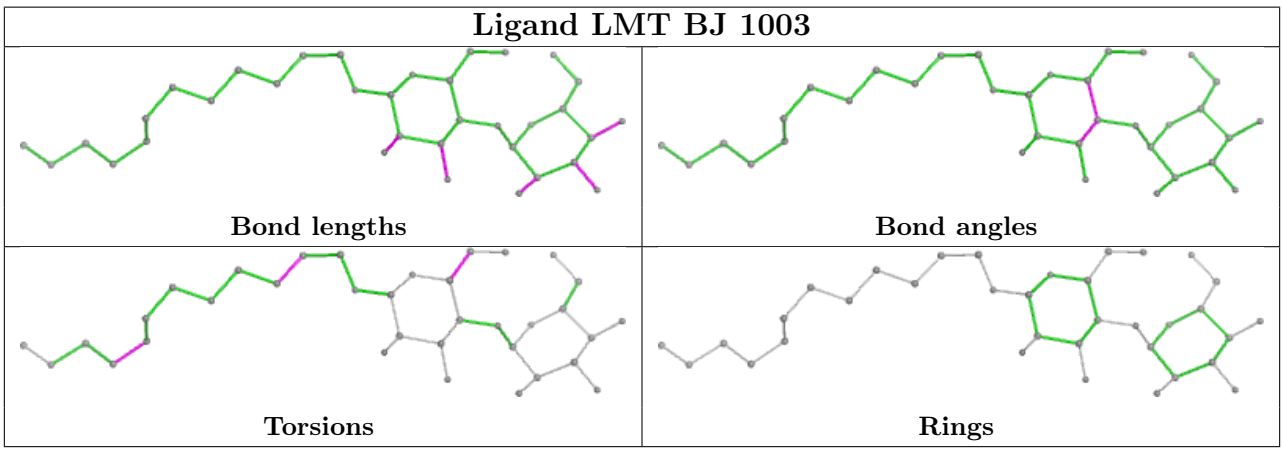

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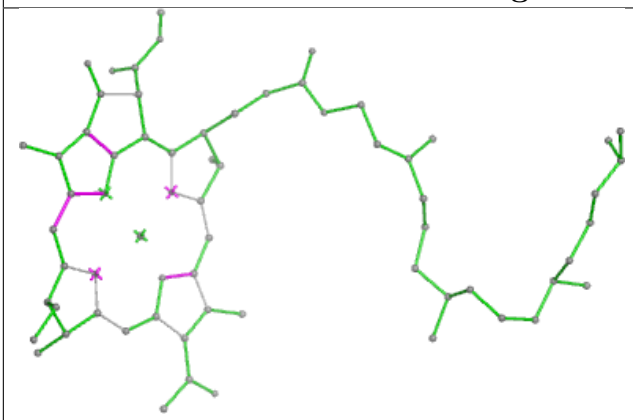
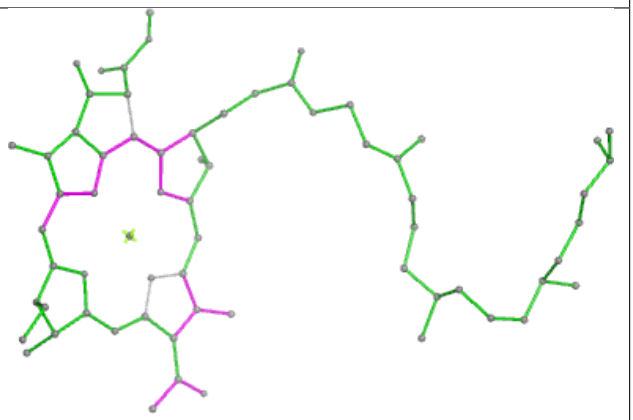
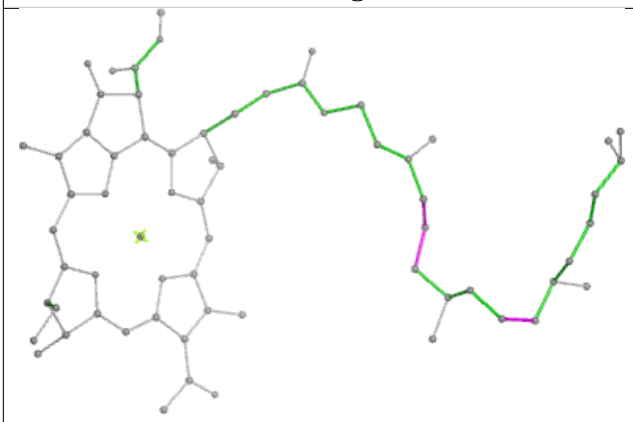


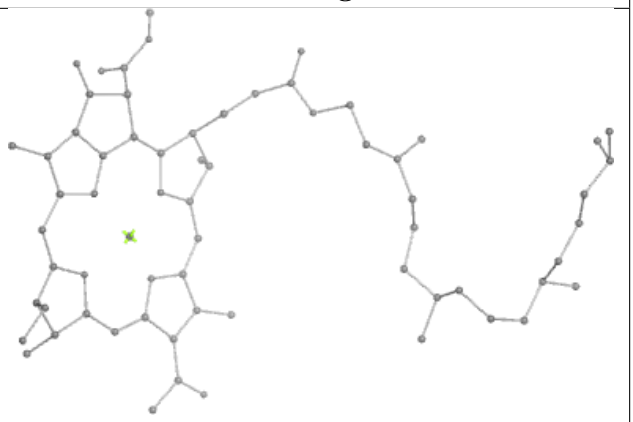
Bond lengths



Bond angles

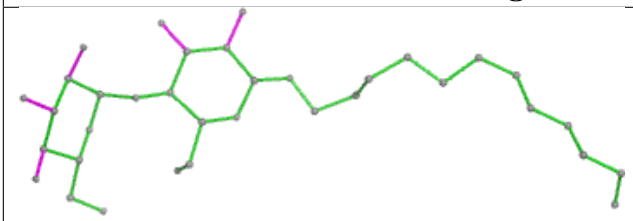


Torsions



Rings

Ligand LMT BN 105



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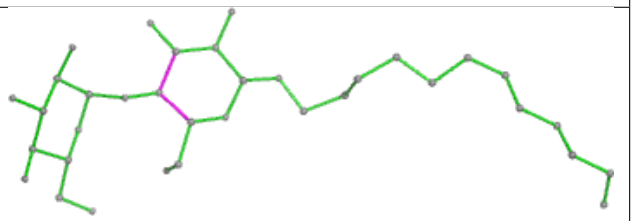
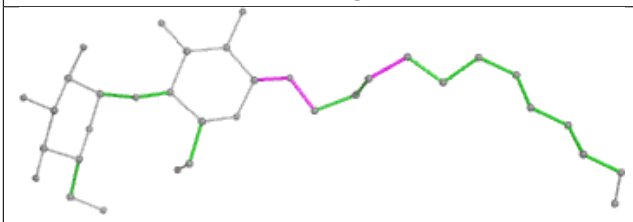


Bond angles



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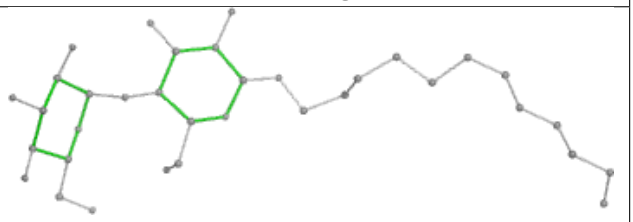
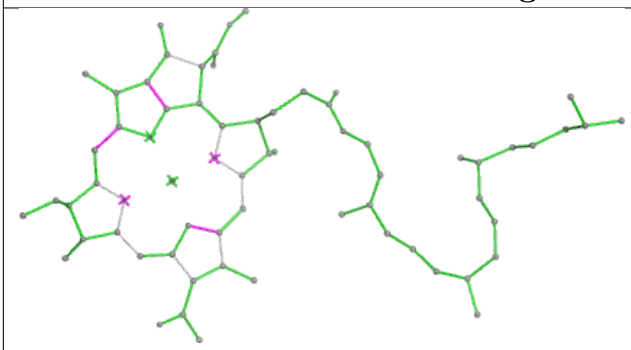


Rings

Ligand BCL bg 105



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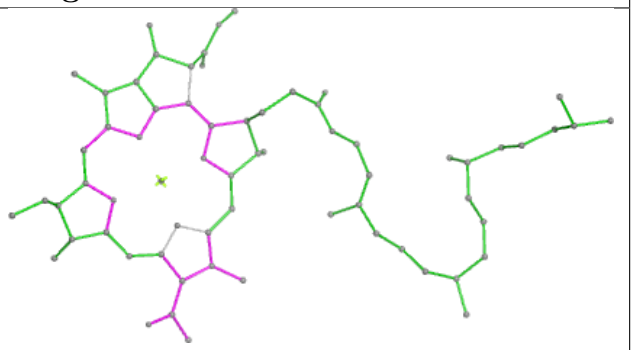
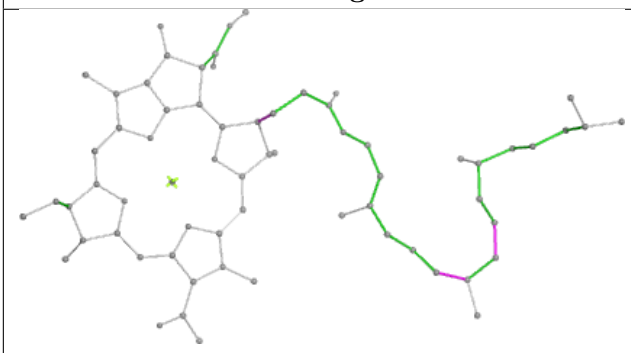


Bond angles



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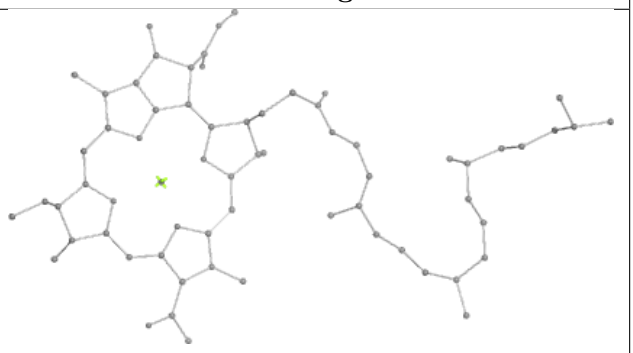
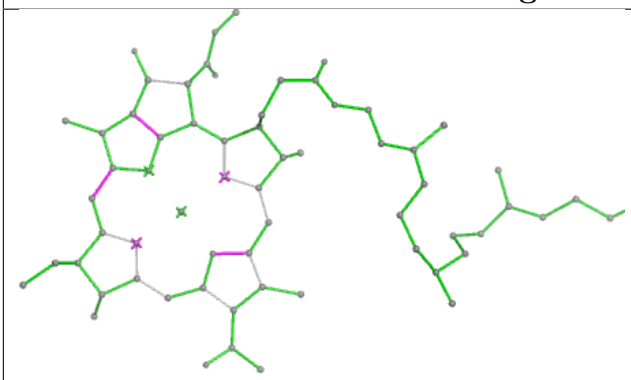
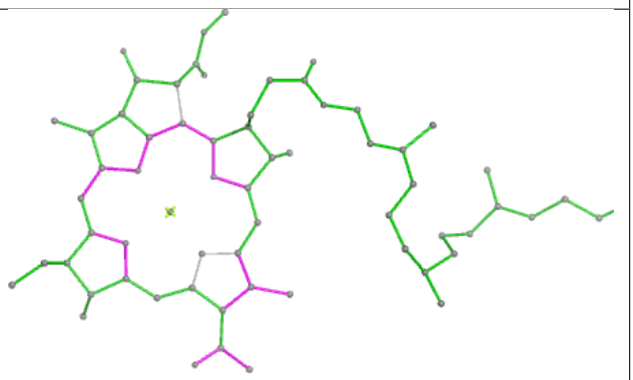


Rings

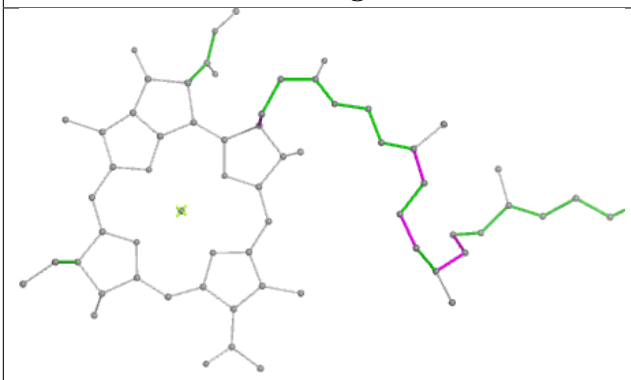
Ligand BCL be 105



Bond lengths



Bond angles



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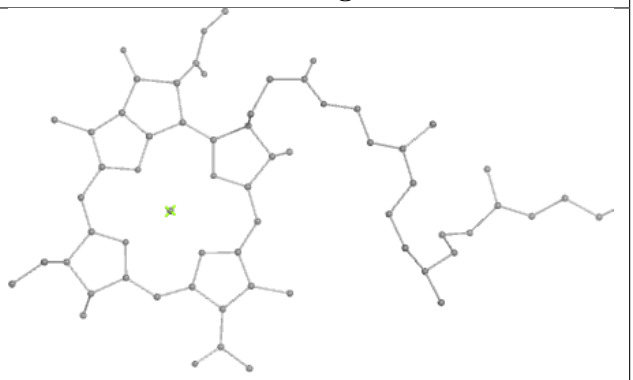
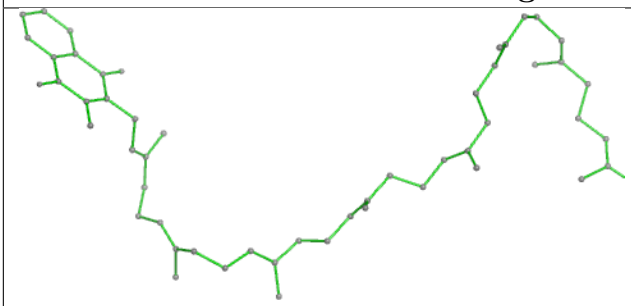


Rings

Ligand MQ8 M 407



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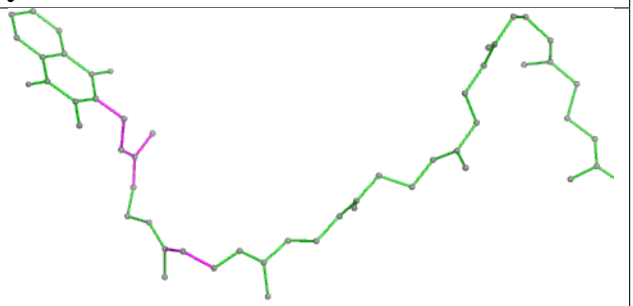
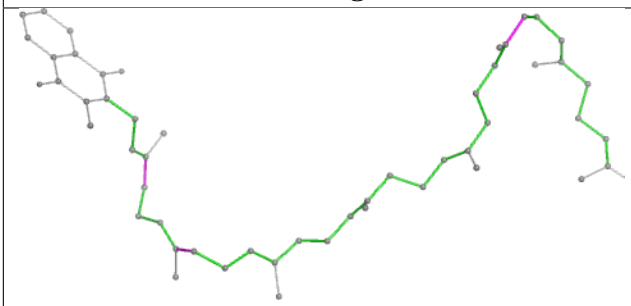


Bond angles



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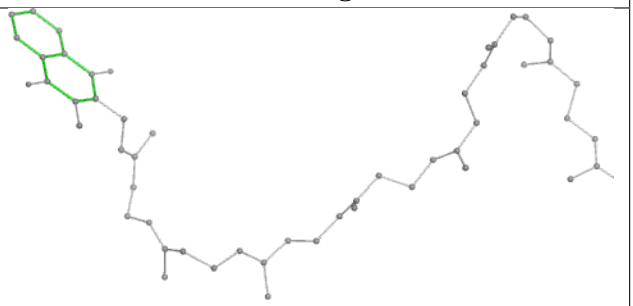
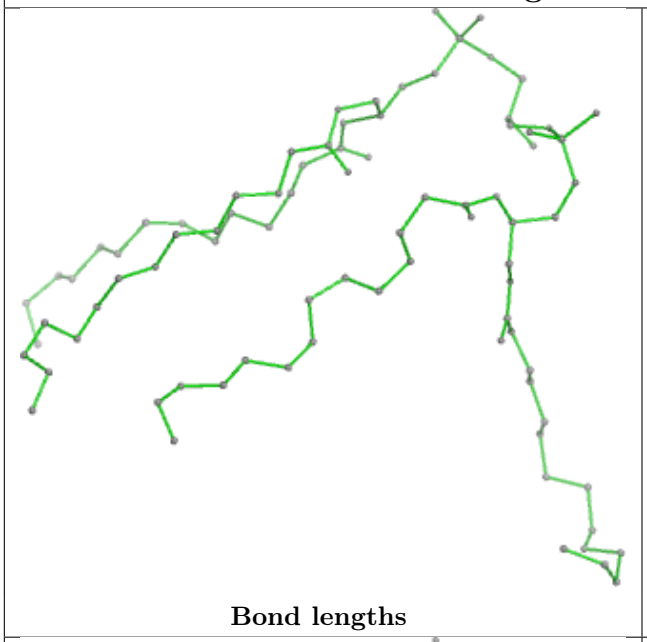


Rings

Ligand CD4 aj 102



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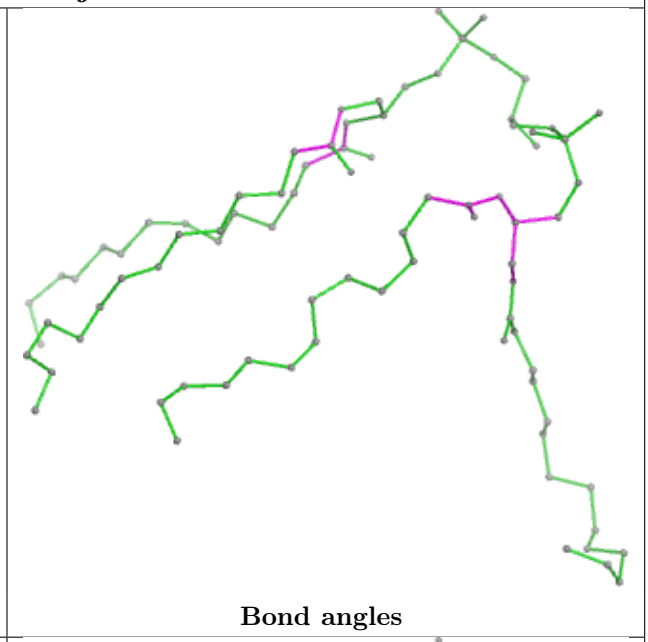
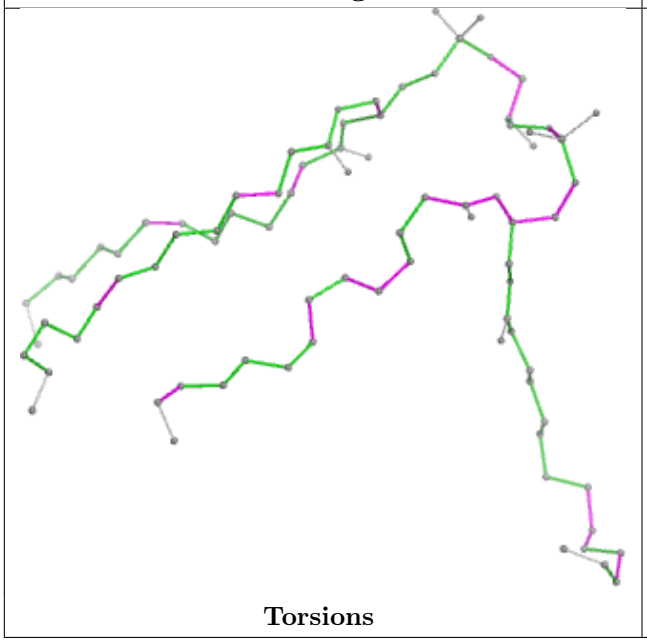


Bond angles



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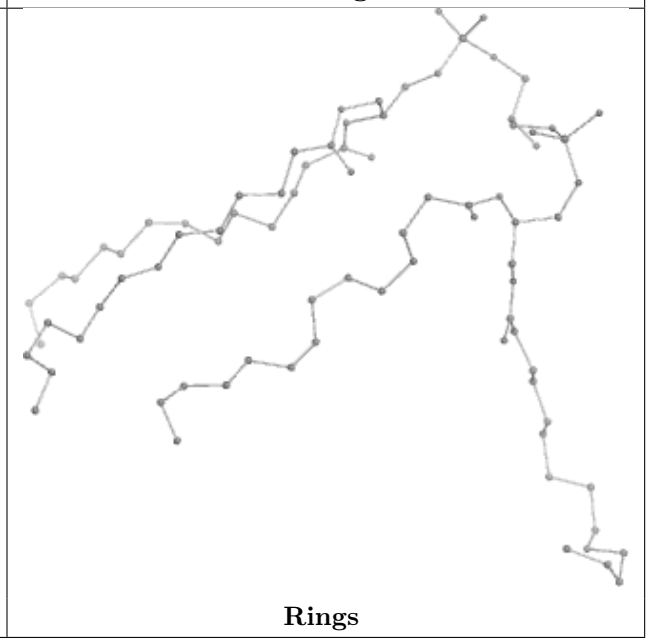
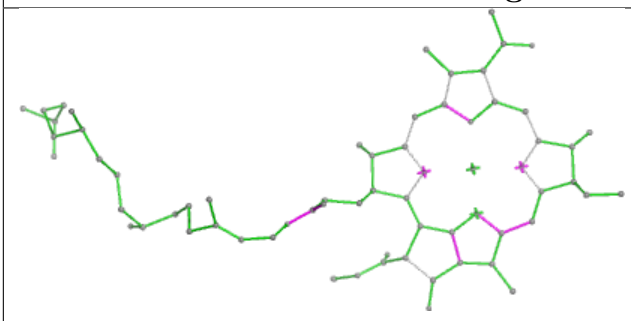
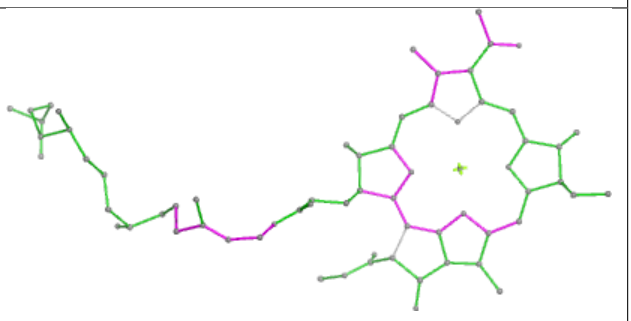


Rings

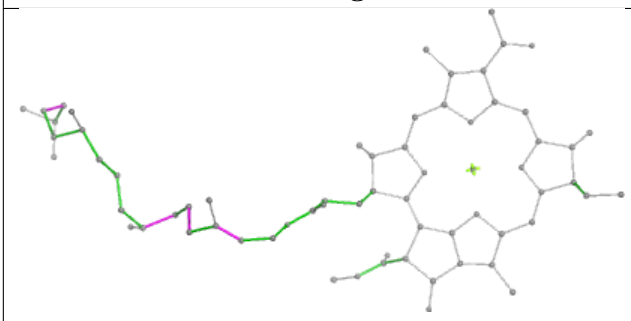
Ligand BCL am 1001



Bond lengths



Bond angles



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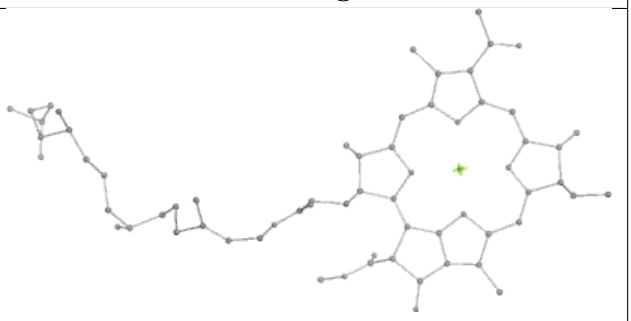
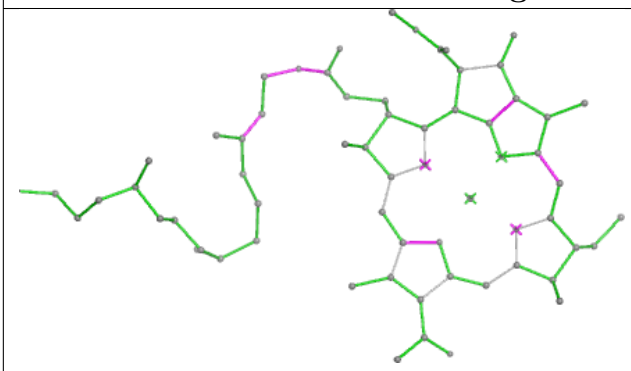
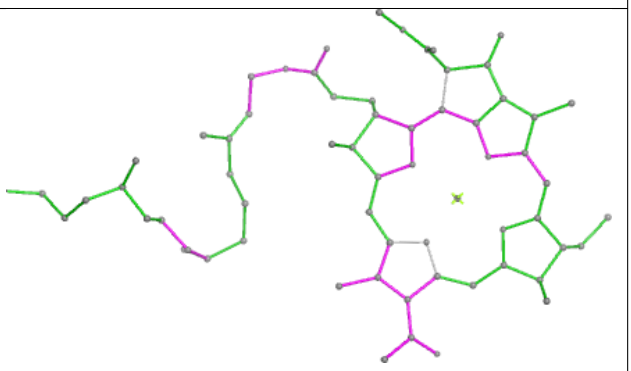


Rings

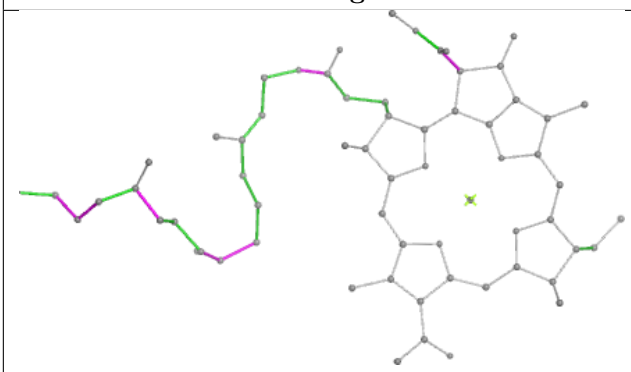
Ligand BCL BI 1003



Bond lengths



Bond angles



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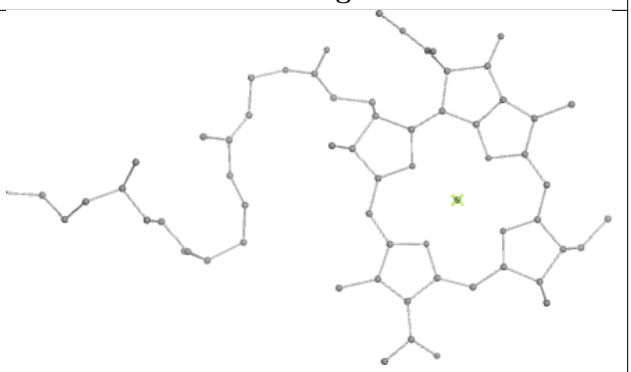
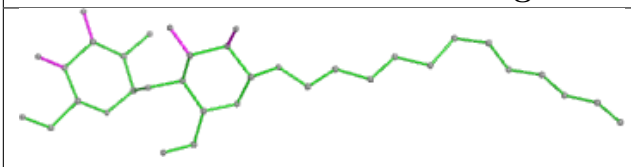


Rings

Ligand LMT AI 101



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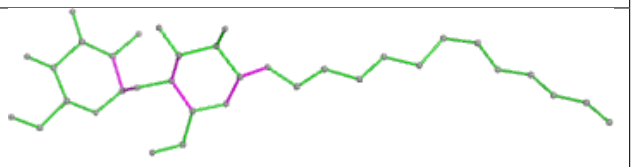
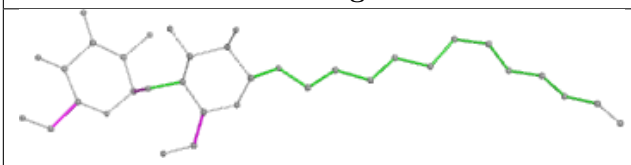
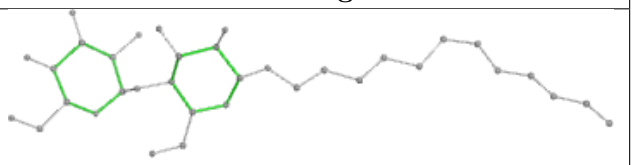


Bond angles

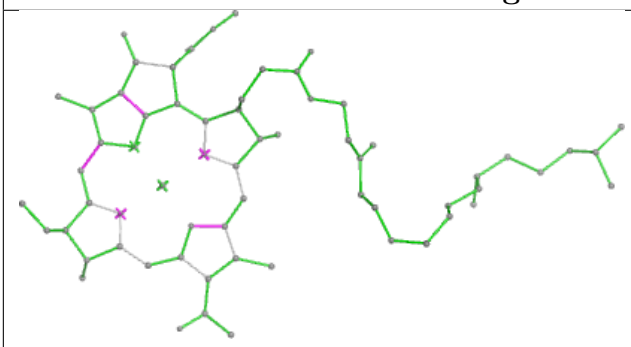


Torsions

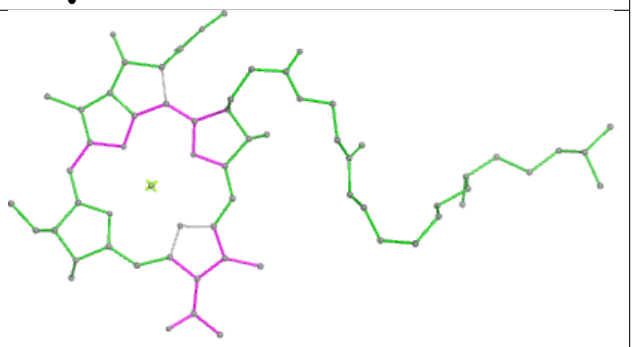


Rings

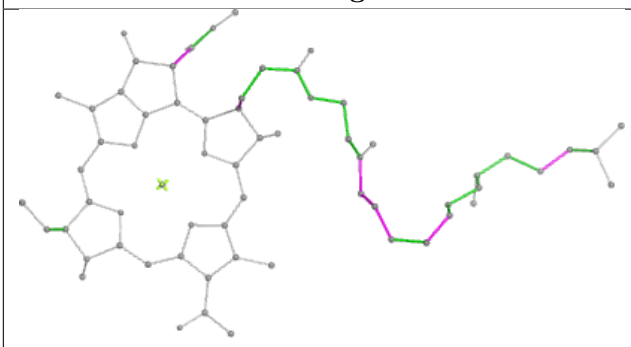
Ligand BCL BQ 1003



Bond lengths



Bond angles



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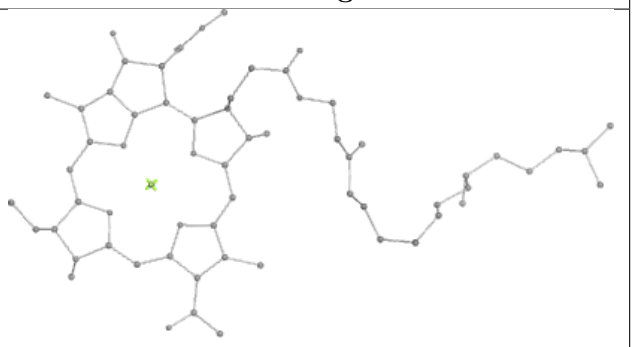
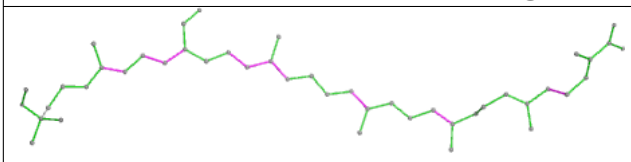


Rings

Ligand V7N bj 101



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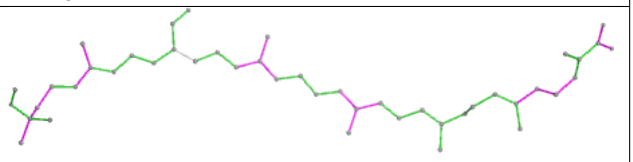
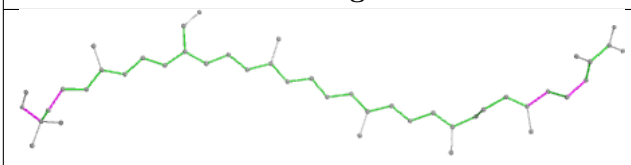


Bond angles



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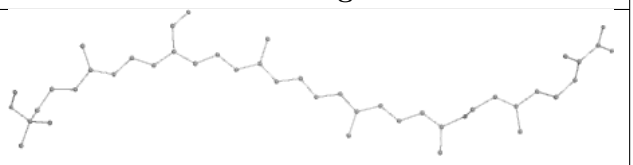
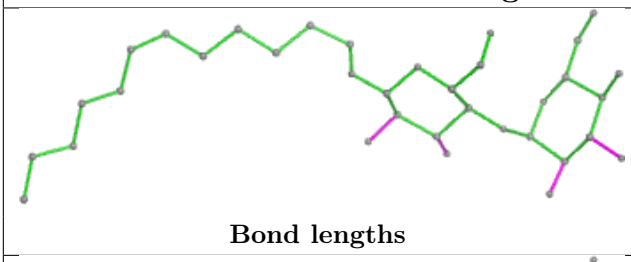
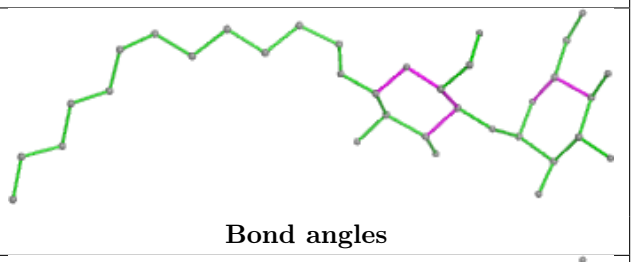


Rings

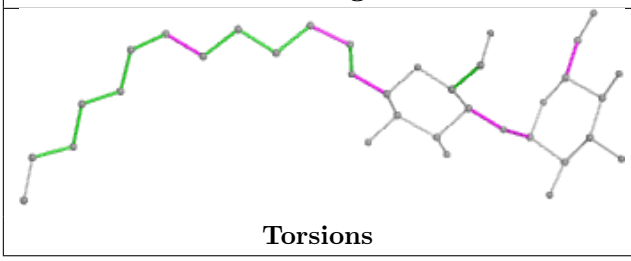
Ligand LMT BL 1004



Bond lengths



Bond angles



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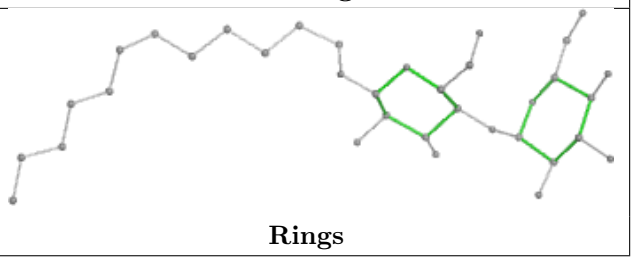
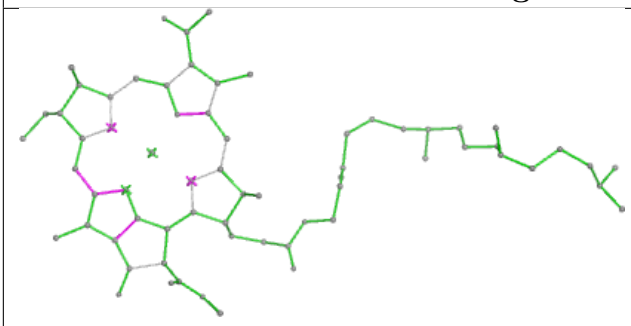


Rings

Ligand BCL BC 104



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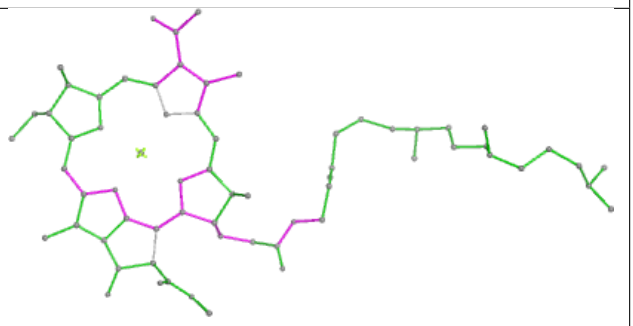
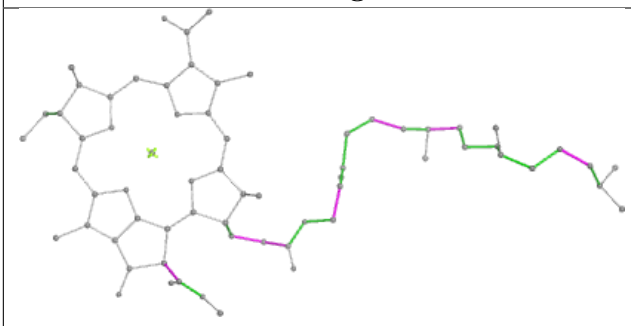


Bond angles



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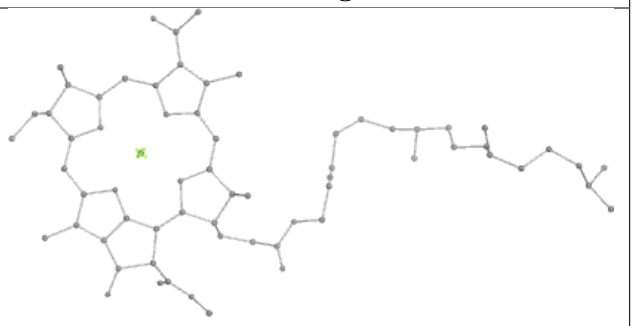
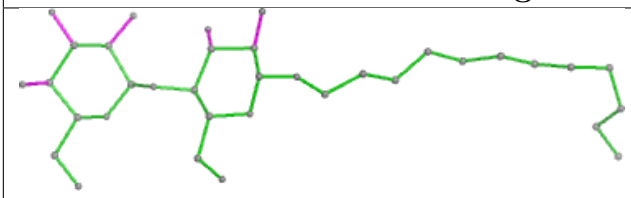
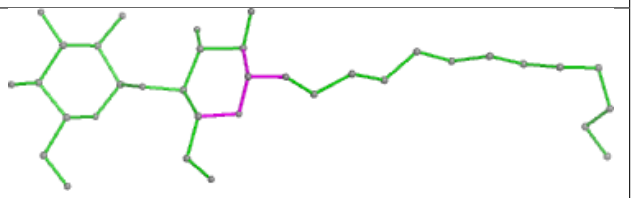


Rings

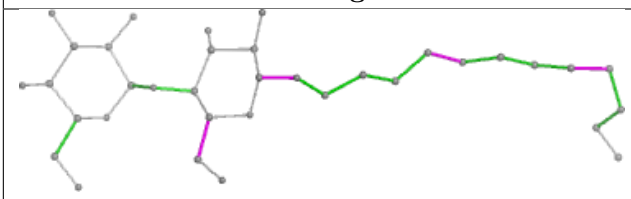
Ligand LMT bn 105



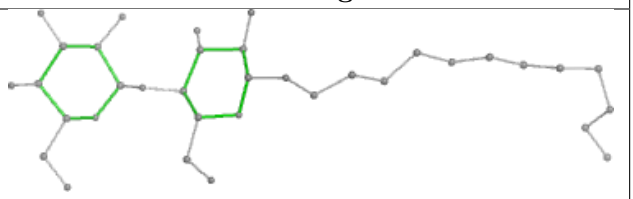
Bond lengths



Bond angles

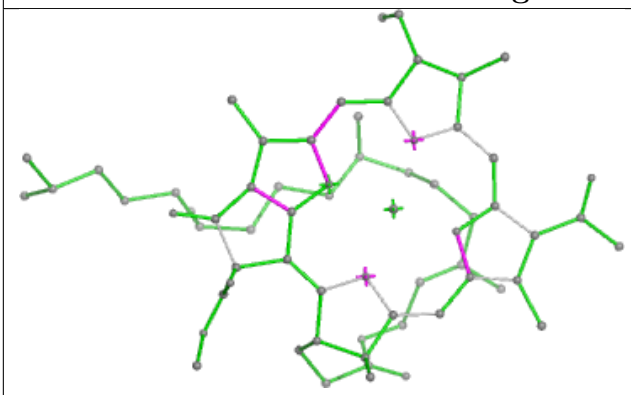


Torsions



Rings

Ligand BCL AC 103



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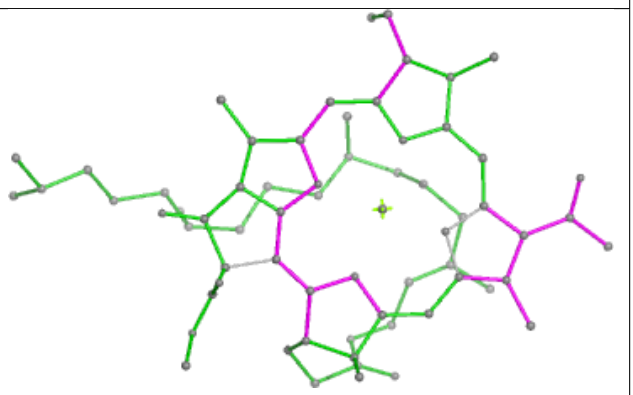
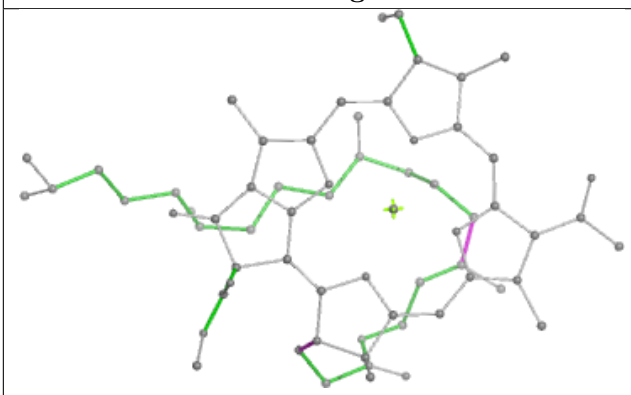
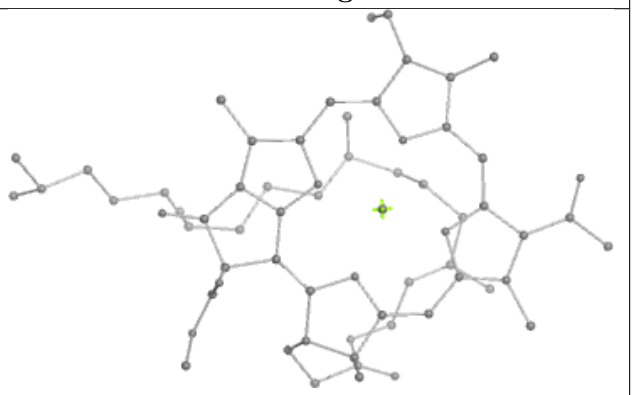


Bond angles

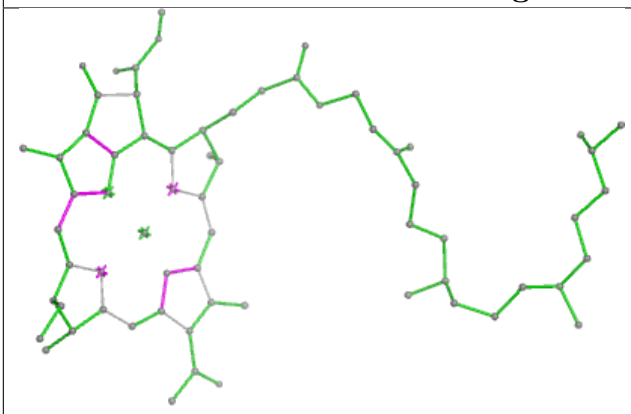


Torsions



Rings

Ligand BCL AC 102



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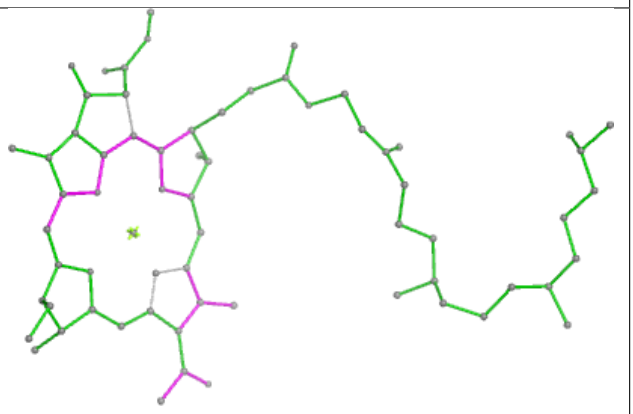
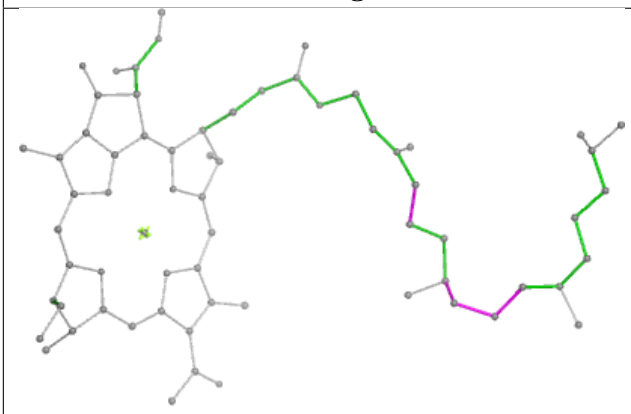
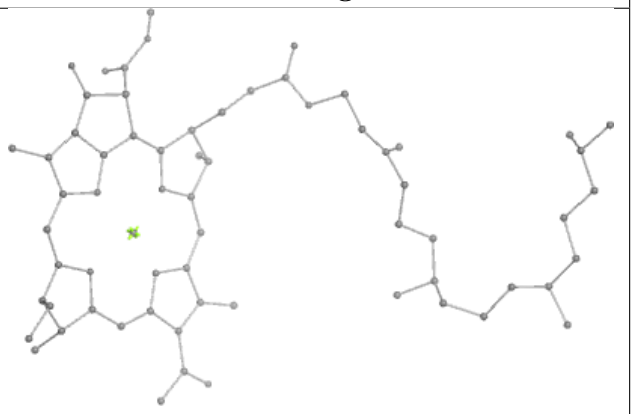


Bond angles

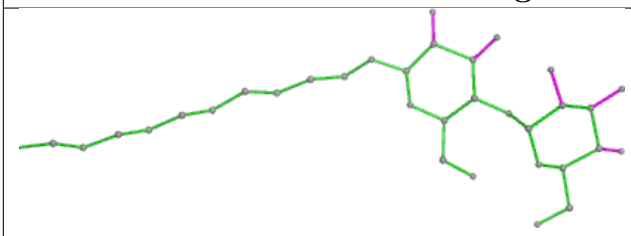


Torsions

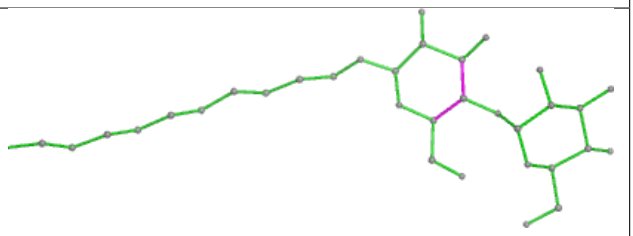


Rings

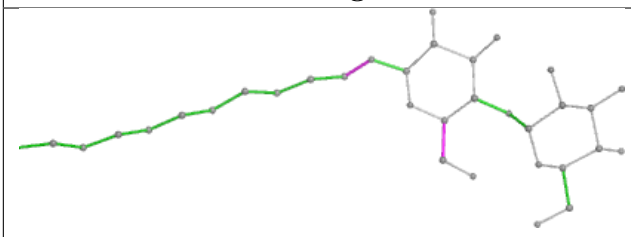
Ligand LMT L 1007



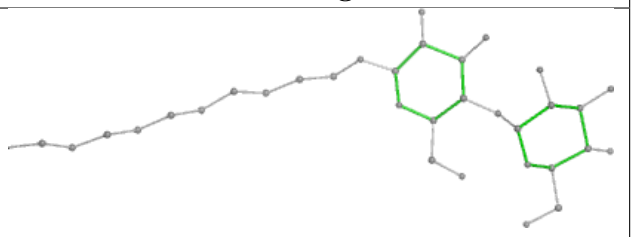
Bond lengths



Bond angles

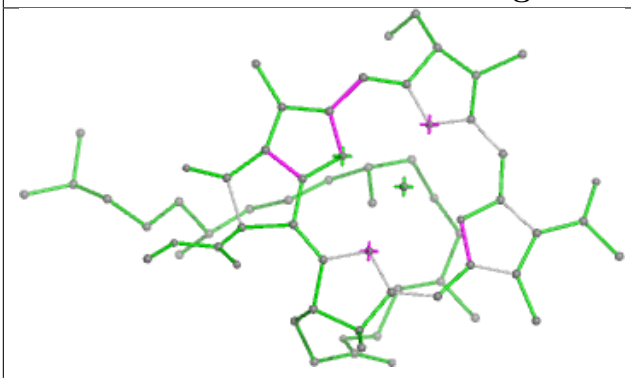


Torsions

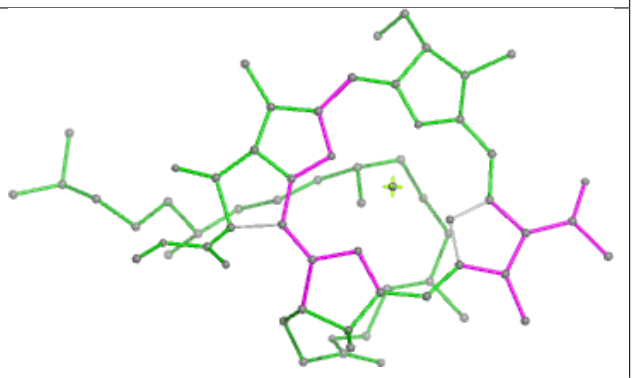


Rings

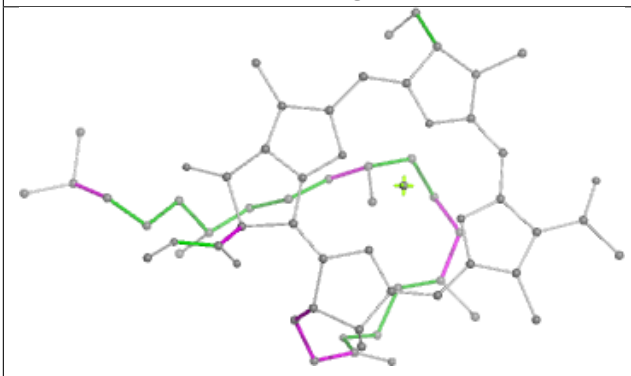
Ligand BCL AV 103



Bond lengths



Bond angles



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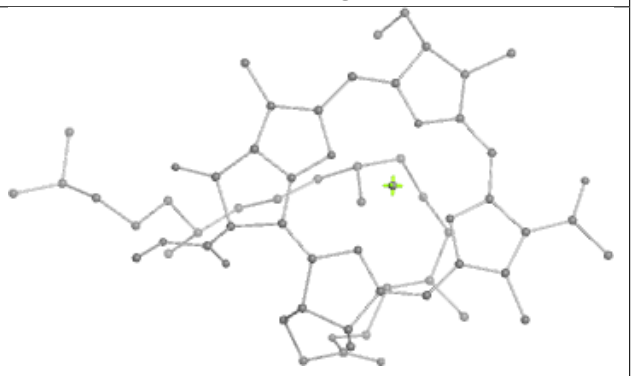
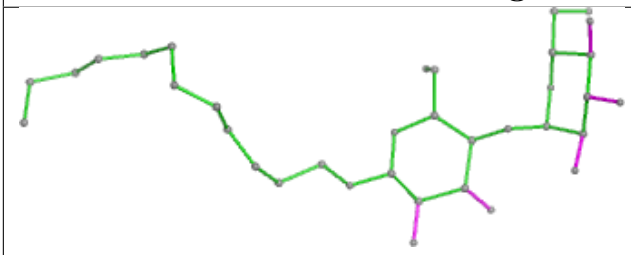
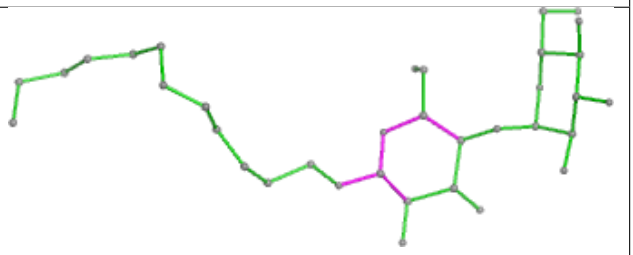


Rings

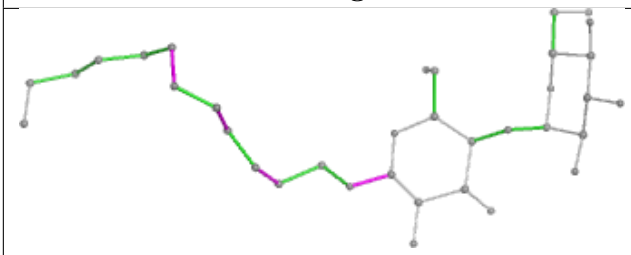
Ligand LMT AP 101



Bond lengths



Bond angles



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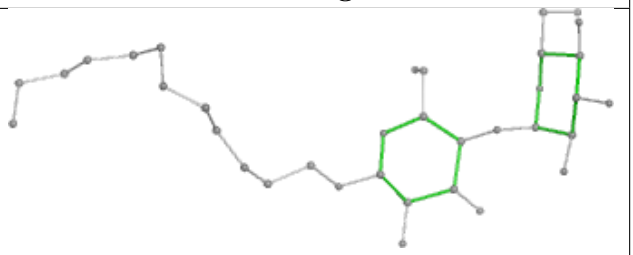
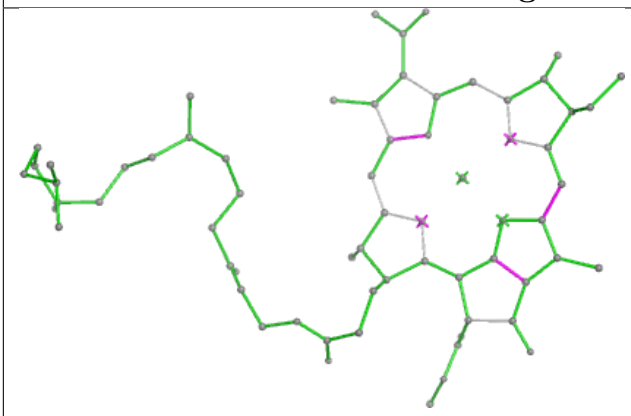


Rings

Ligand BCL bk 102



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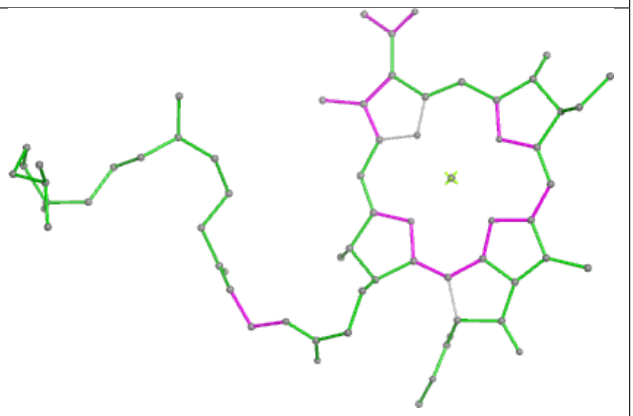
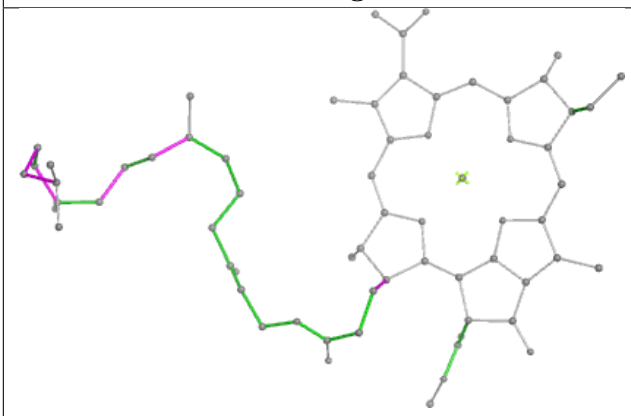


Bond angles



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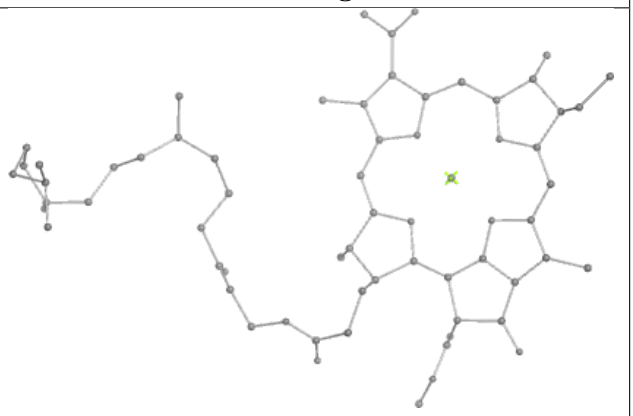
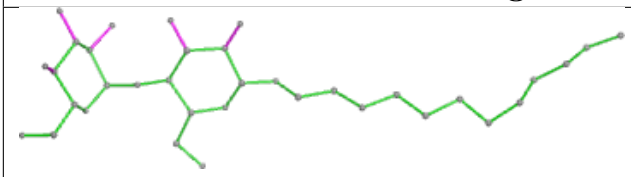
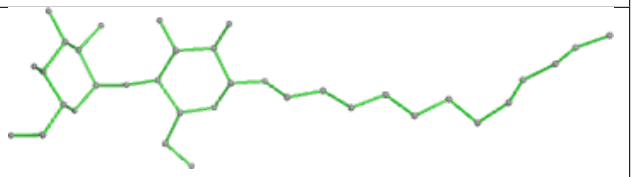


Rings

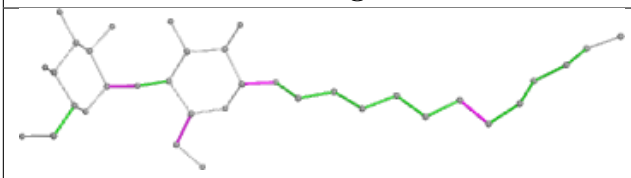
Ligand LMT AU 101



Bond lengths



Bond angles



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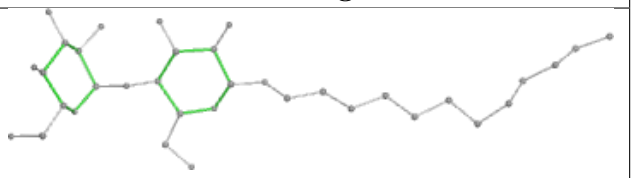
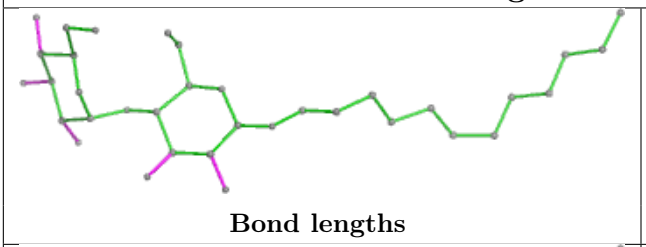
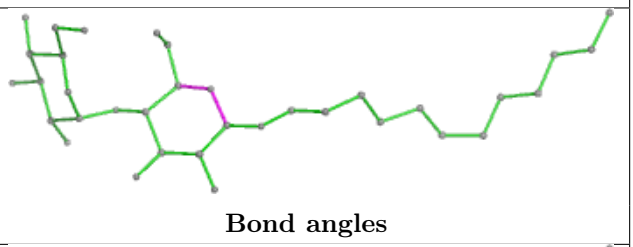


Rings

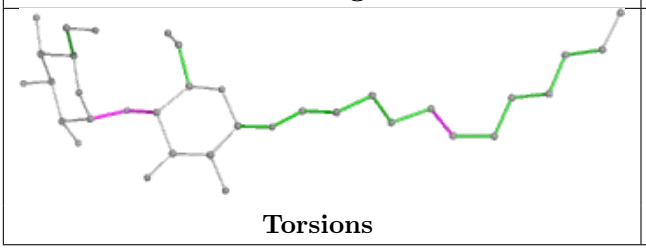
Ligand LMT BD 104



Bond lengths



Bond angles



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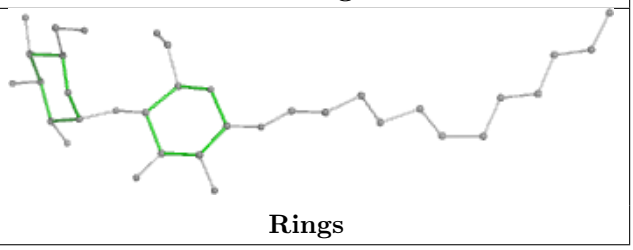
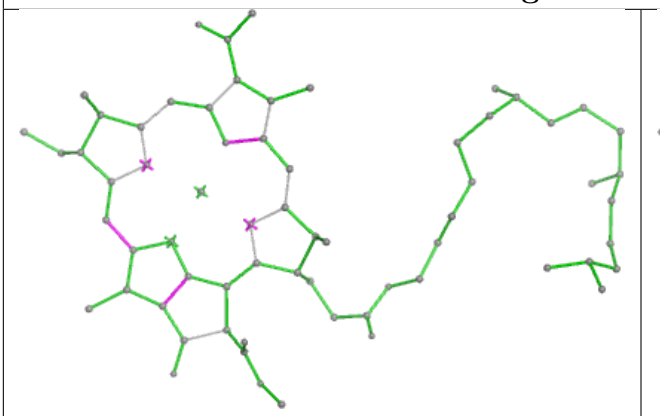


Rings

Ligand BCL bj 103



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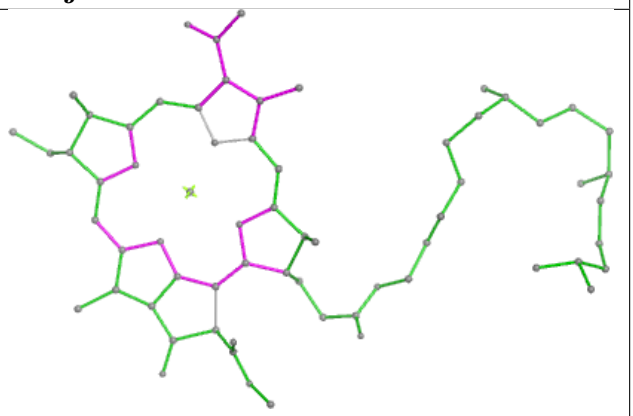
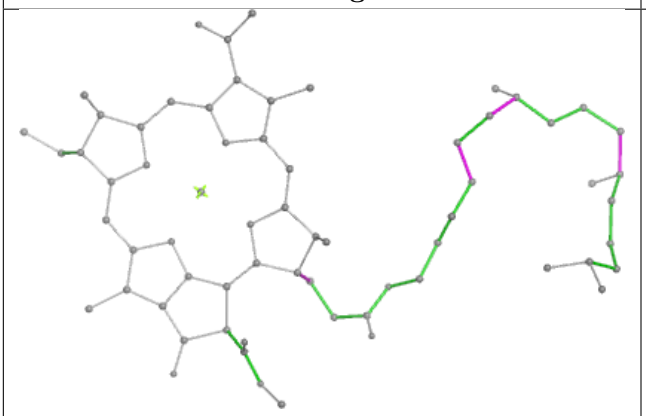


Bond angles



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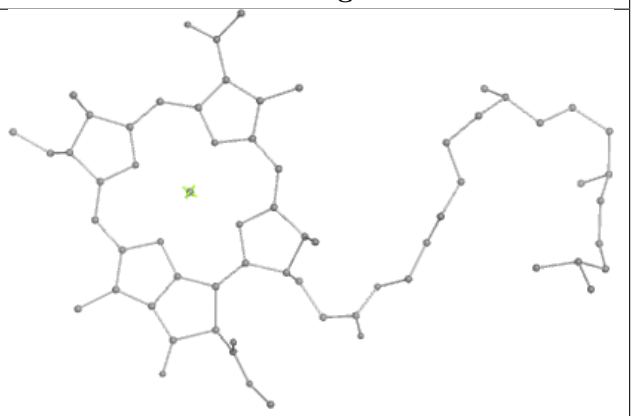
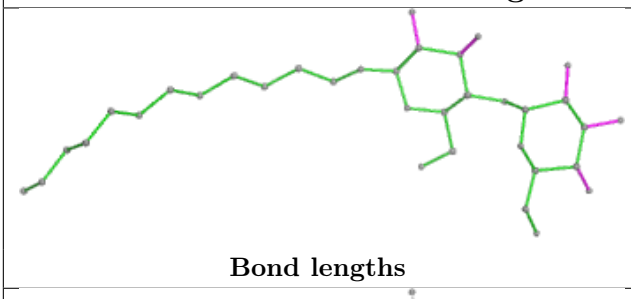


Rings

Ligand LMT AD 103



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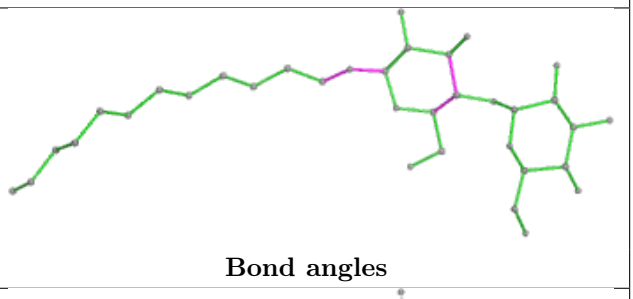
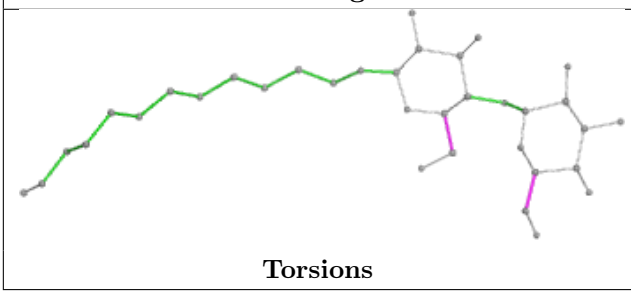
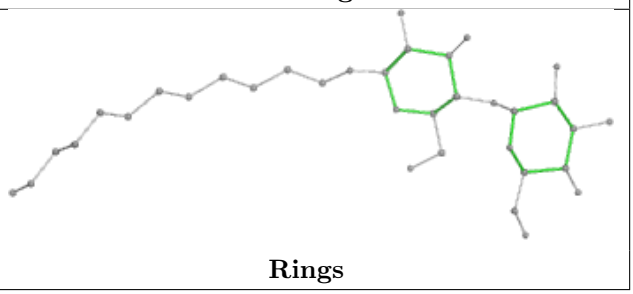


Bond angles

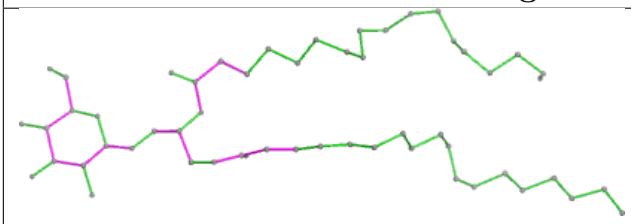


Torsions



Rings

Ligand UYH ai 102



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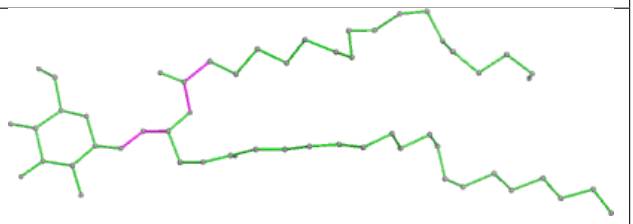
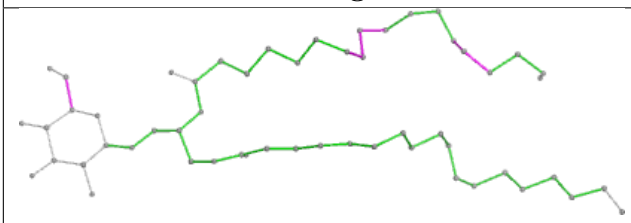


Bond angles



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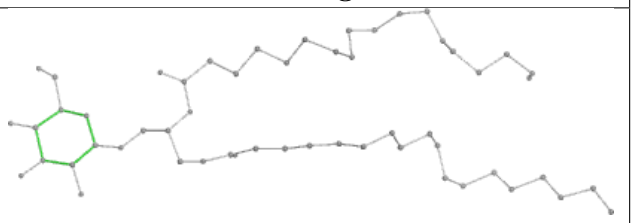
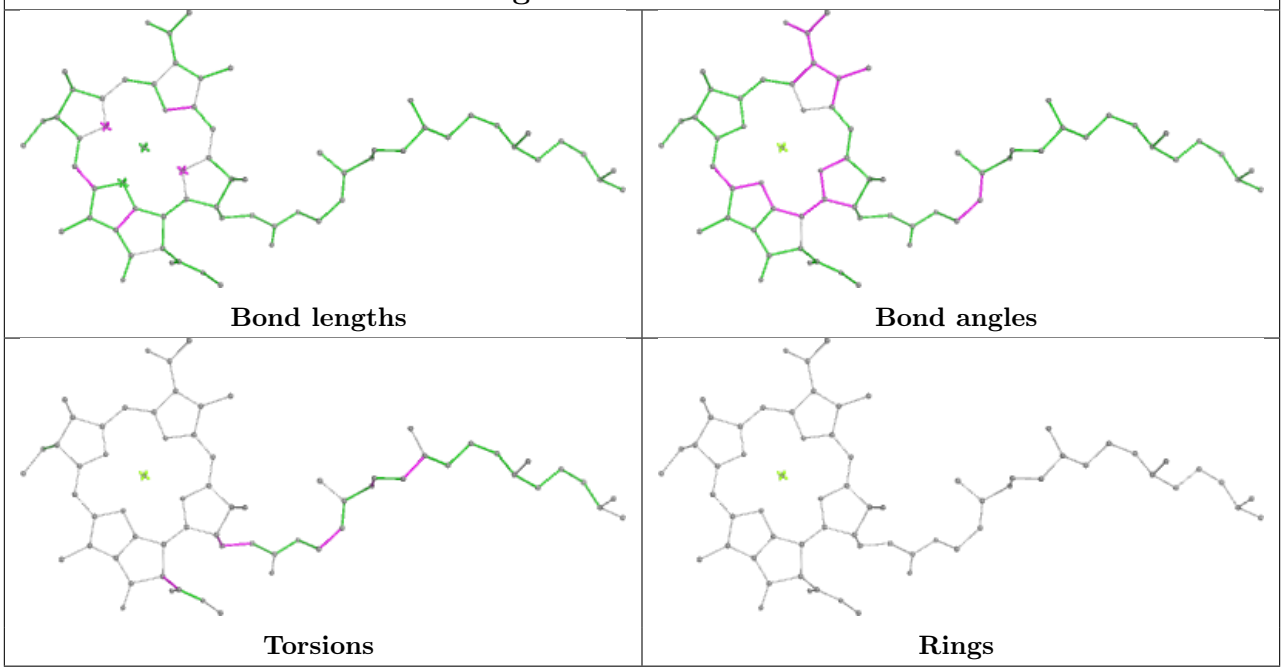
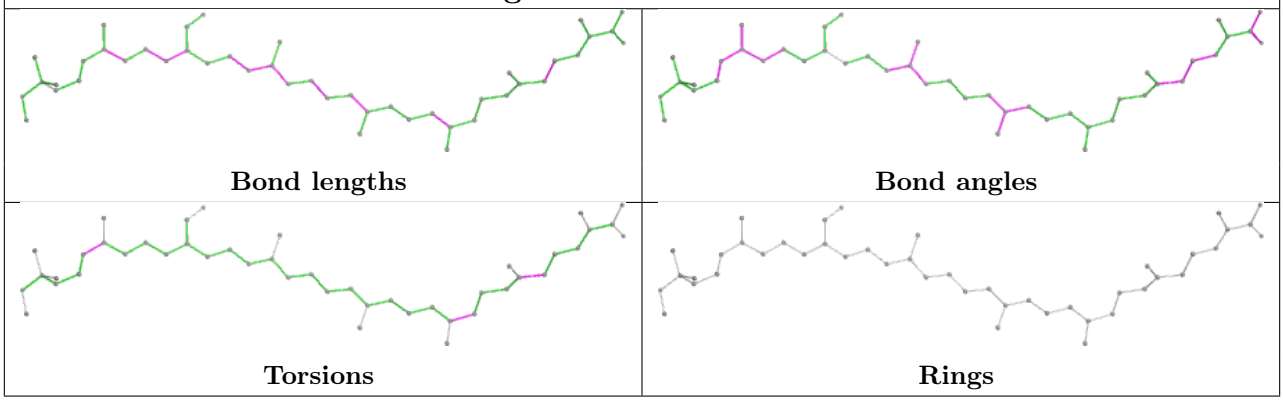


Rings

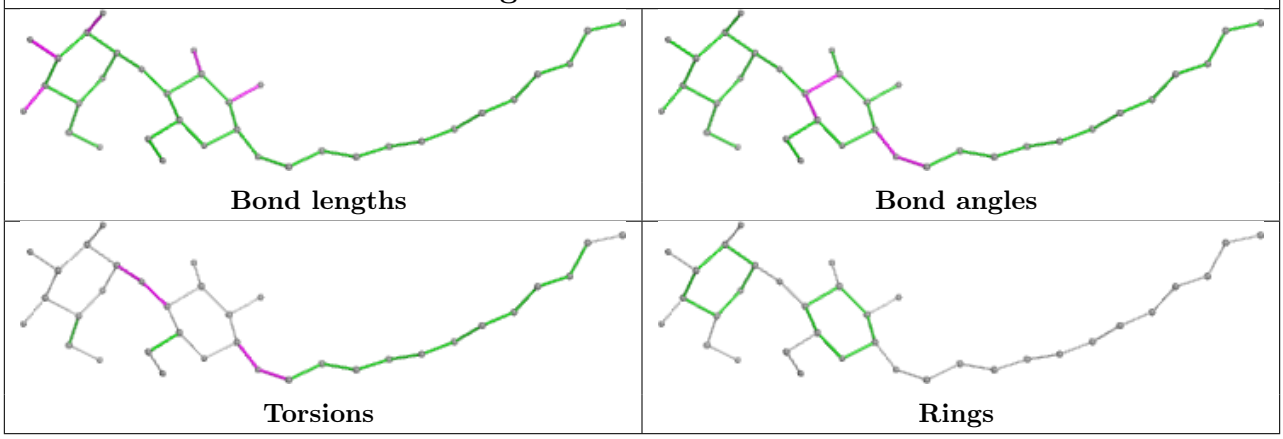
Ligand BCL BA 103



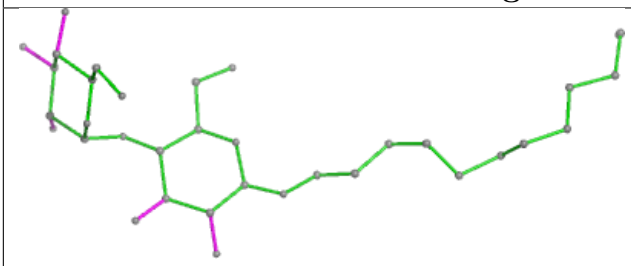
Ligand V7N BR 1001



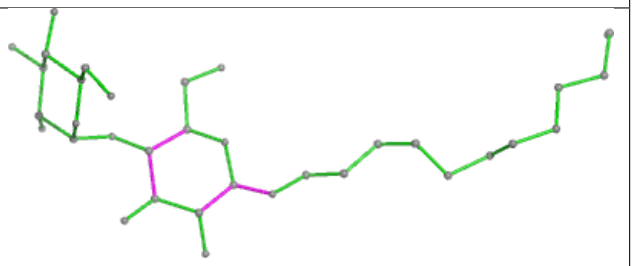
Ligand LMT BX 1004



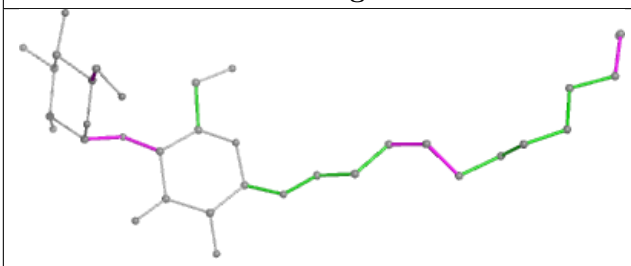
Ligand LMT BS 1004



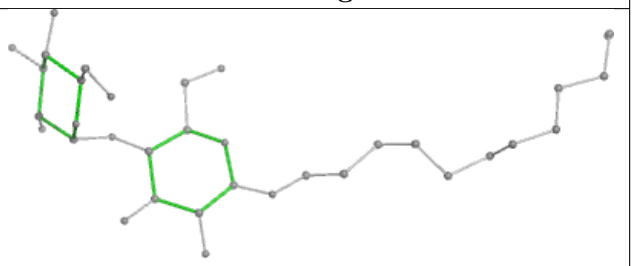
Bond lengths



Bond angles

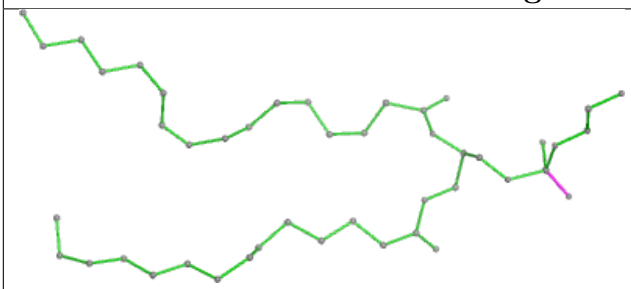


Torsions

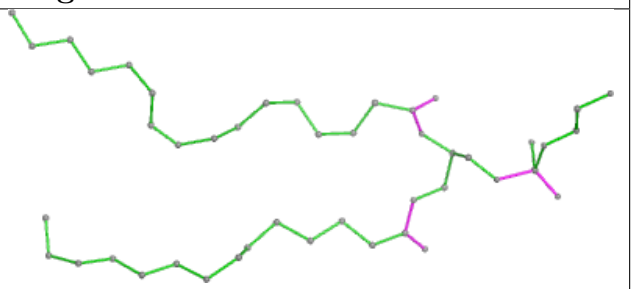


Rings

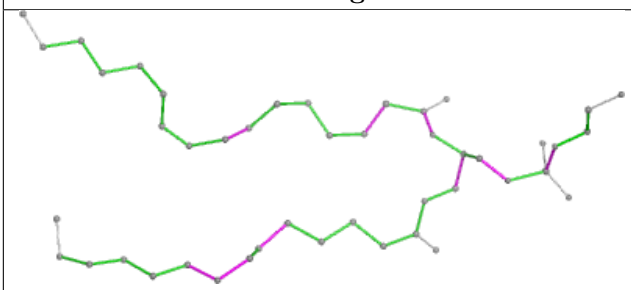
Ligand 0V9 bg 104



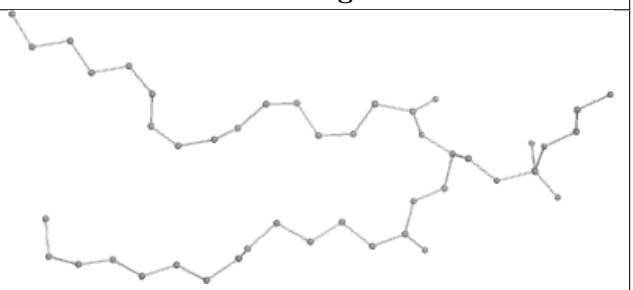
Bond lengths



Bond angles

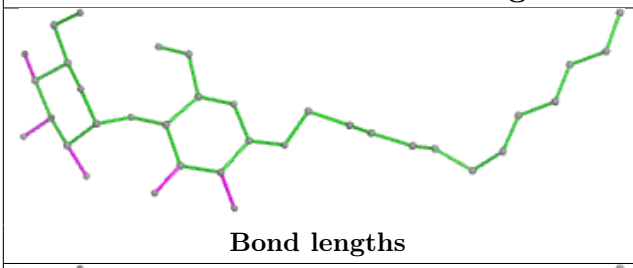


Torsions

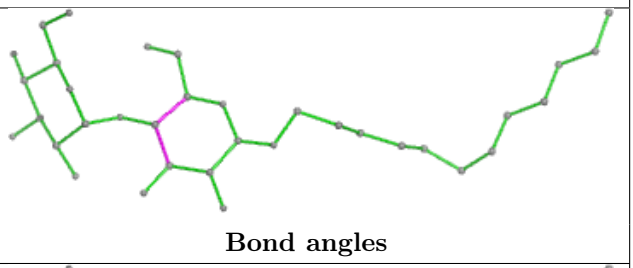


Rings

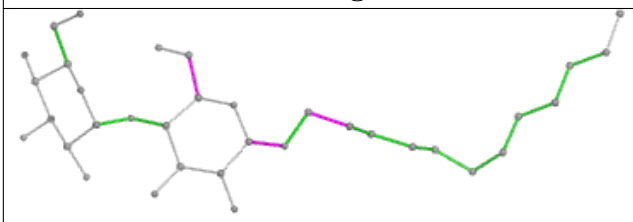
Ligand LMT BC 103



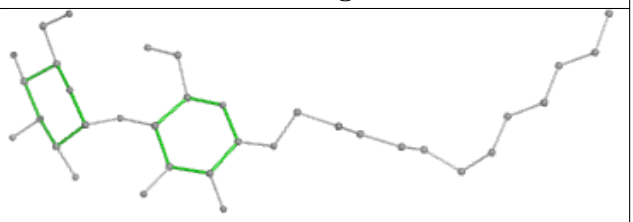
Bond lengths



Bond angles

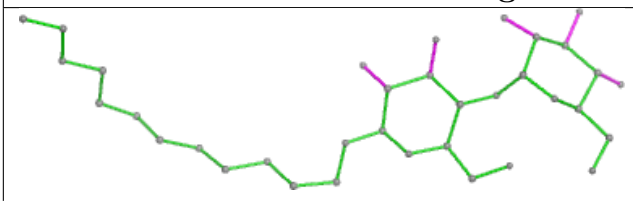


Torsions

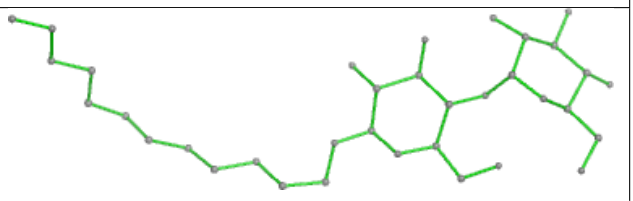


Rings

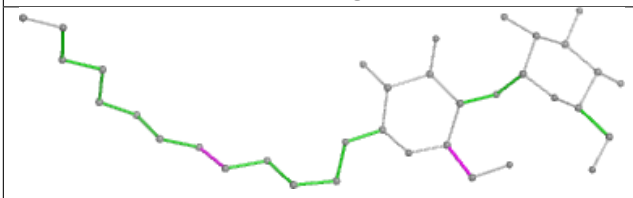
Ligand LMT BH 1004



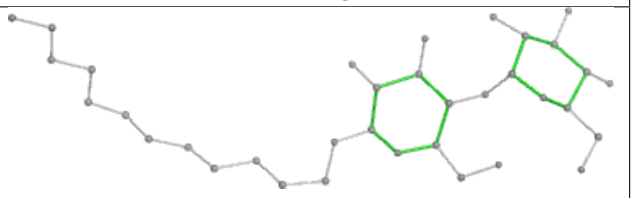
Bond lengths



Bond angles

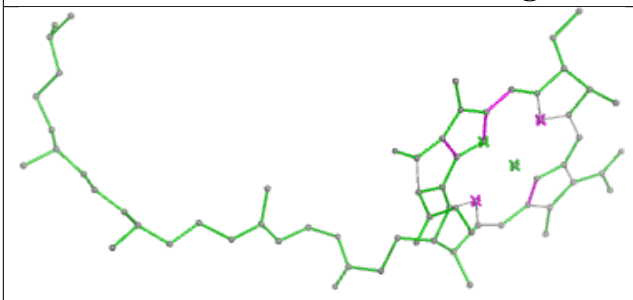


Torsions

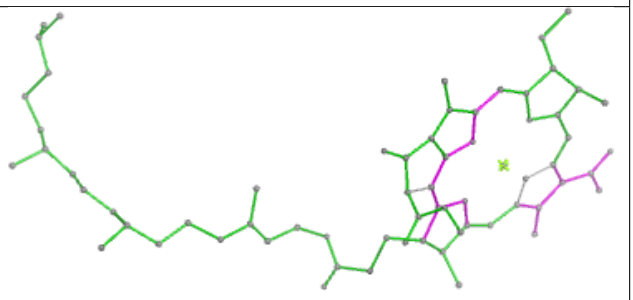


Rings

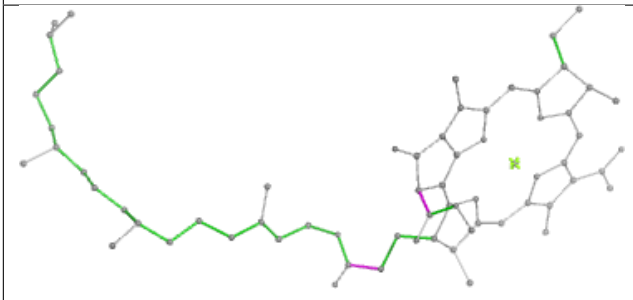
Ligand BCL M 405



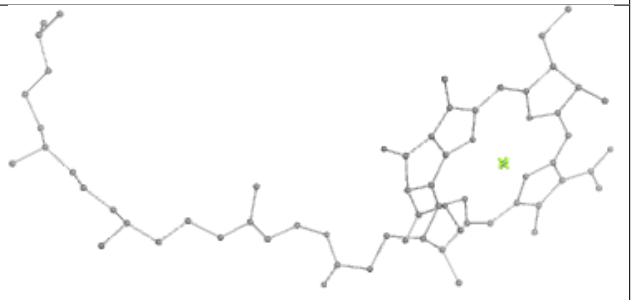
Bond lengths



Bond angles

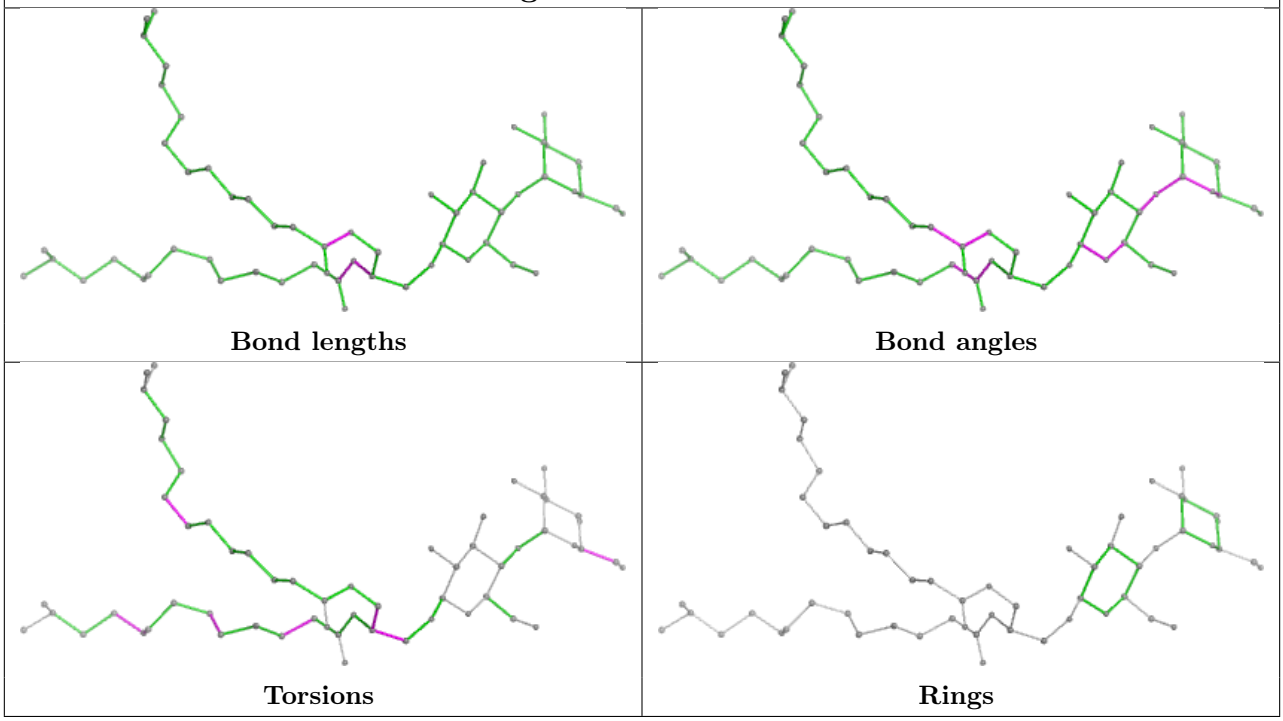


Torsions

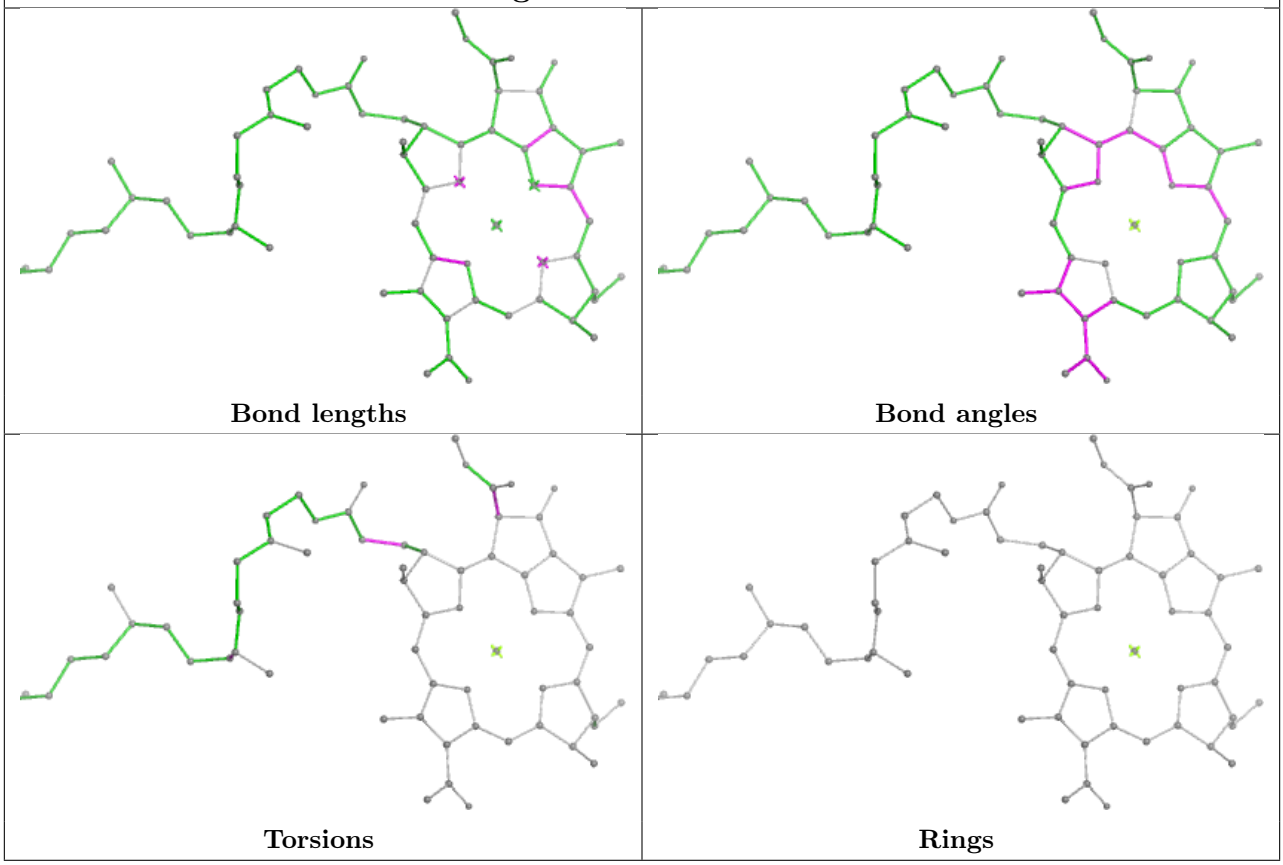


Rings

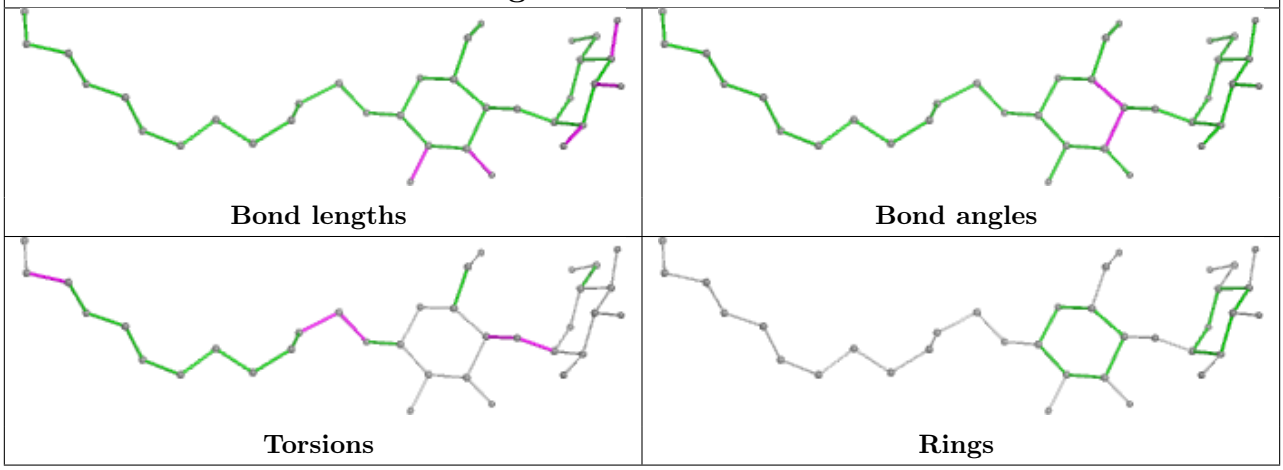
Ligand V7B L 1006



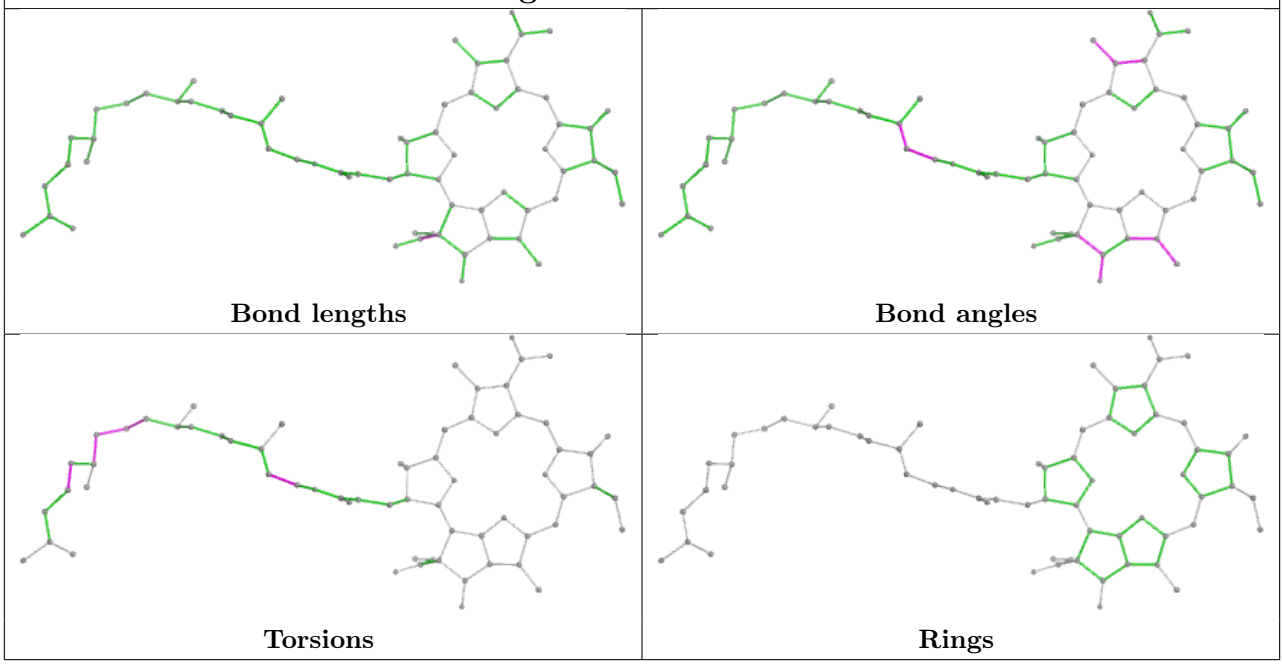
Ligand BCL BD 105



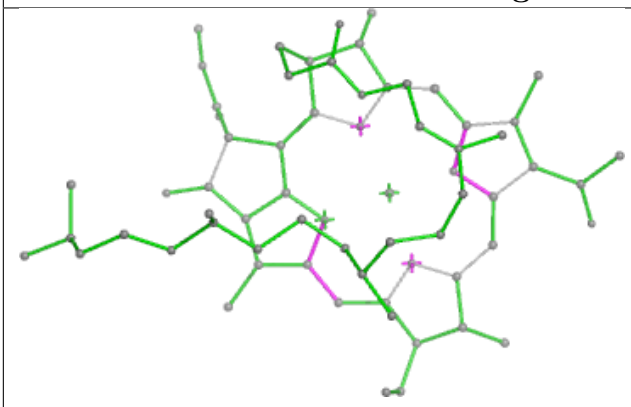
Ligand LMT BN 101



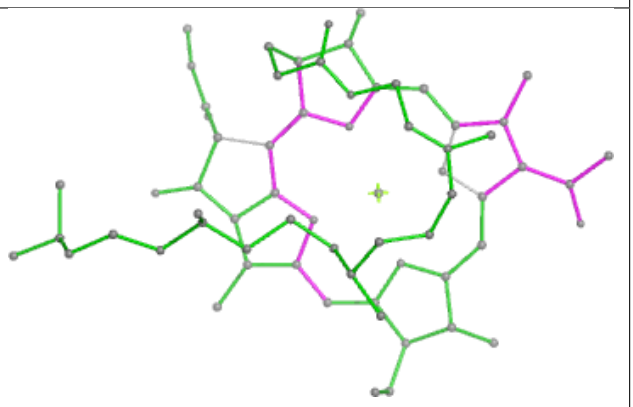
Ligand BPH M 406



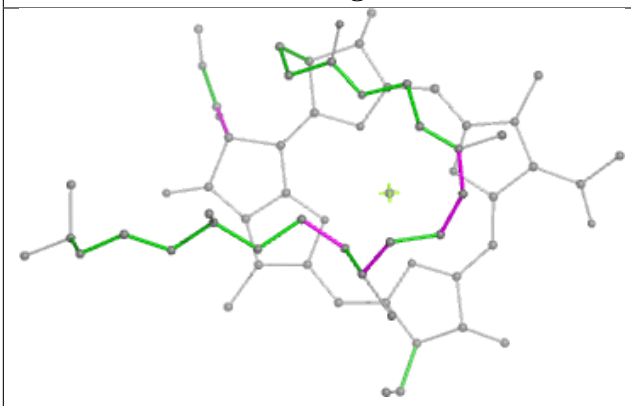
Ligand BCL AP 103



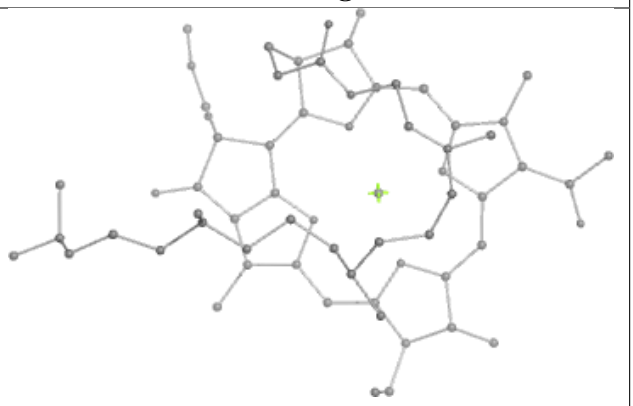
Bond lengths



Bond angles

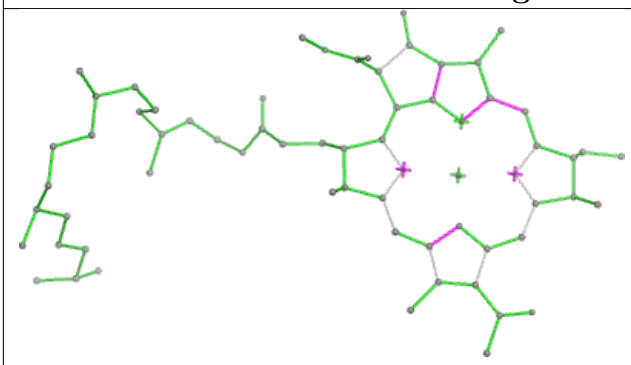


Torsions

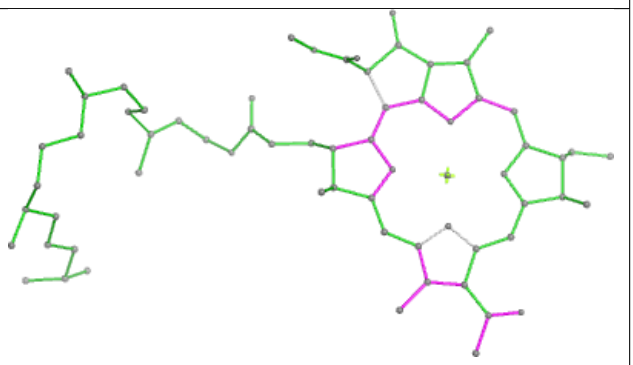


Rings

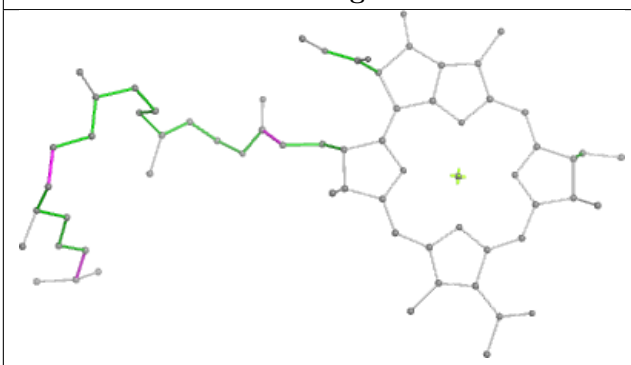
Ligand BCL ac 1001



Bond lengths



Bond angles



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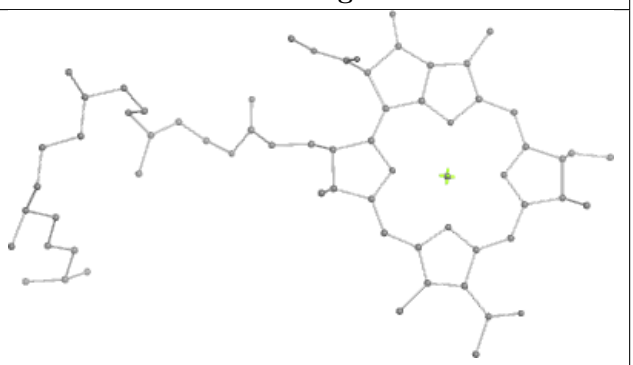
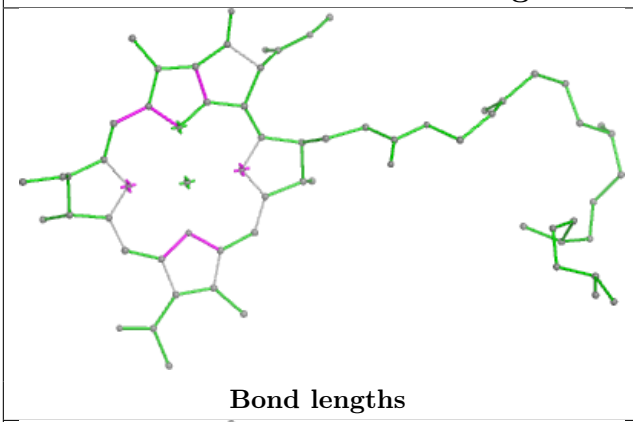


Rings

Ligand BCL aa 1001



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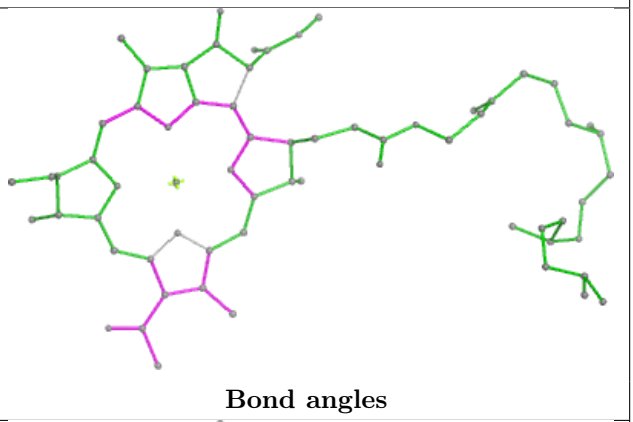
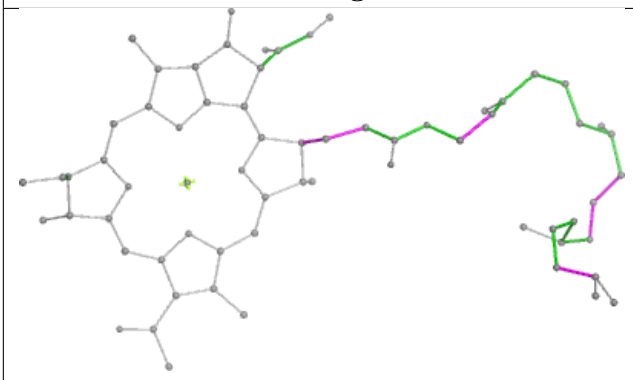


Bond angles



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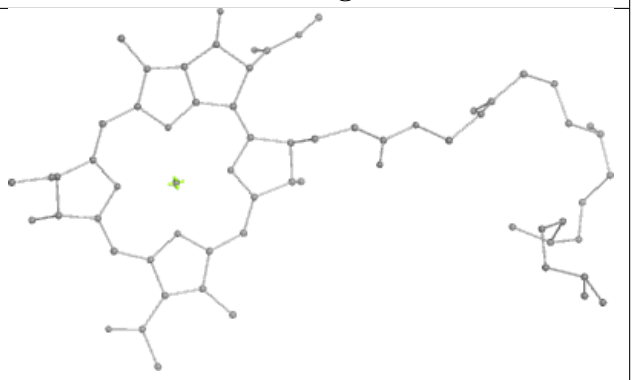
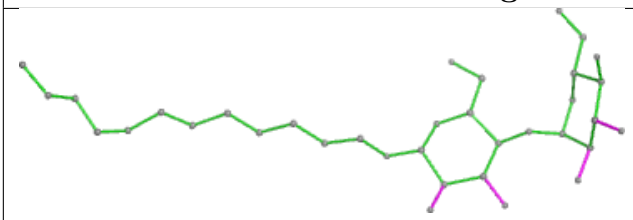
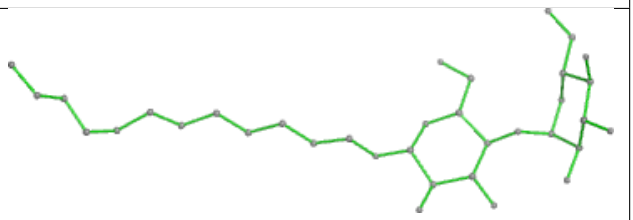


Rings

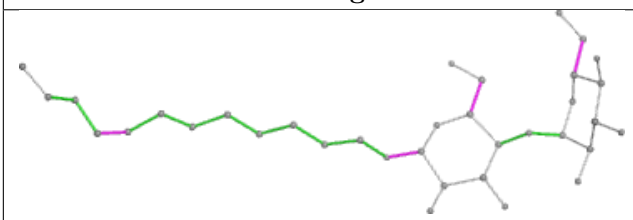
Ligand LMT AF 1002



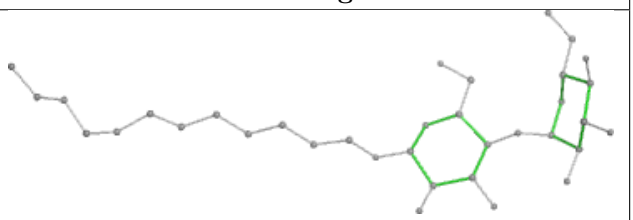
Bond lengths



Bond angles

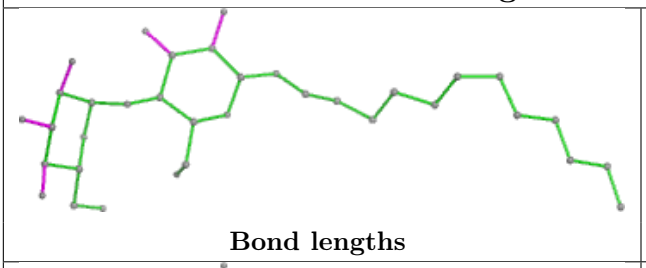


Torsions

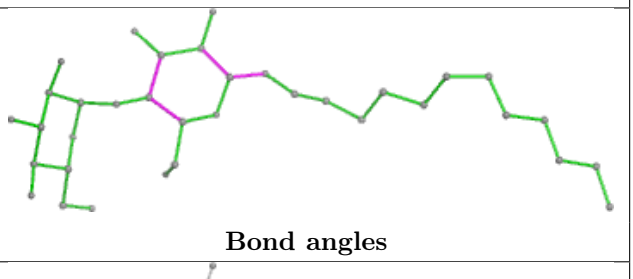


Rings

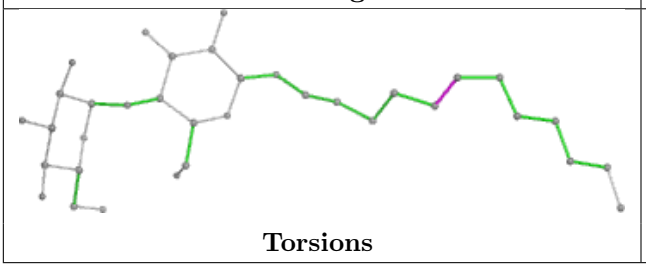
Ligand LMT BV 1002



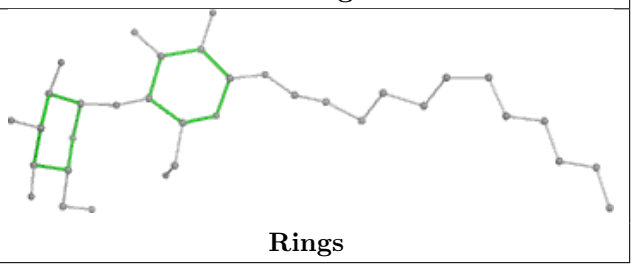
Bond lengths



Bond angles

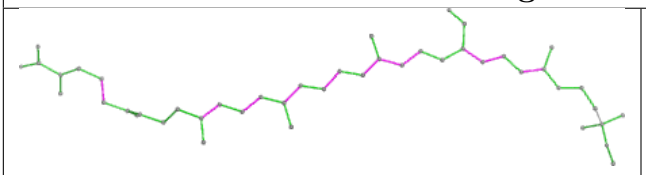


Torsions



Rings

Ligand V7N bp 101



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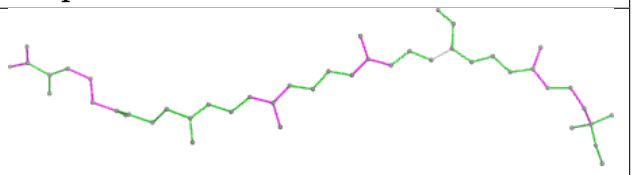
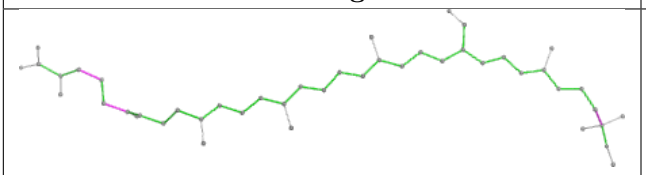
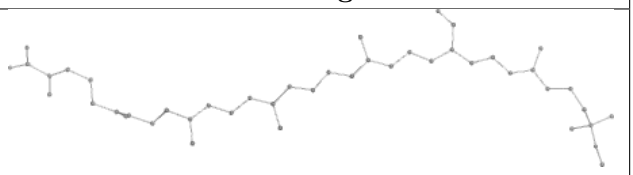


Bond angles

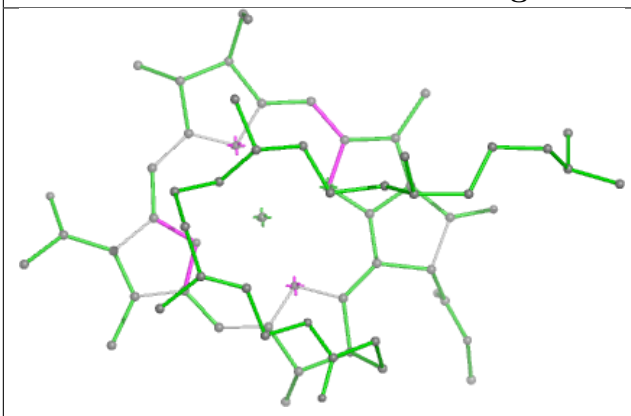


Torsions



Rings

Ligand BCL AN 101



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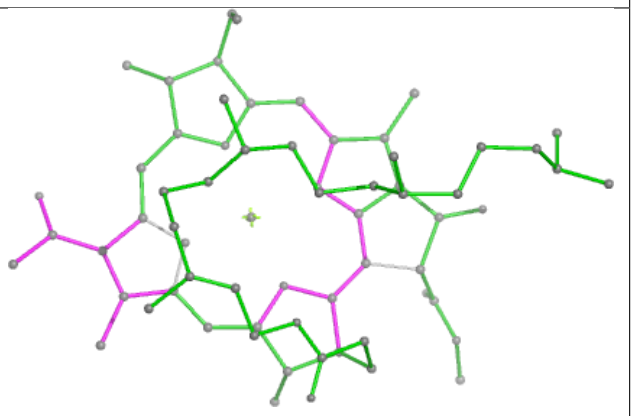
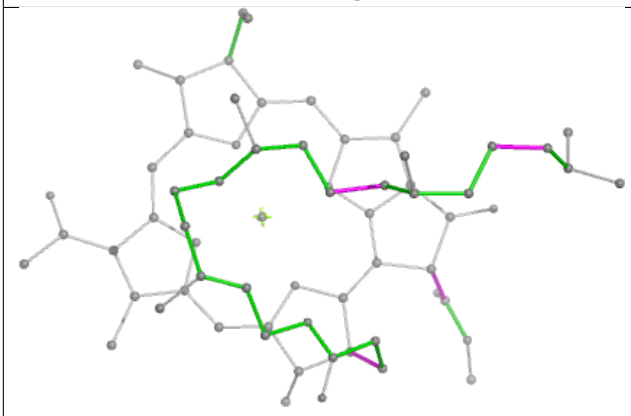
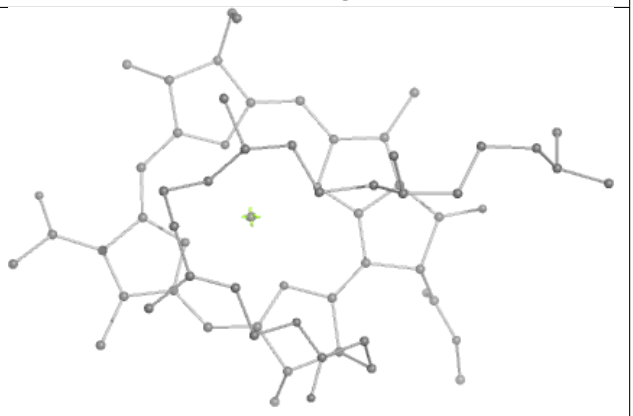


Bond angles

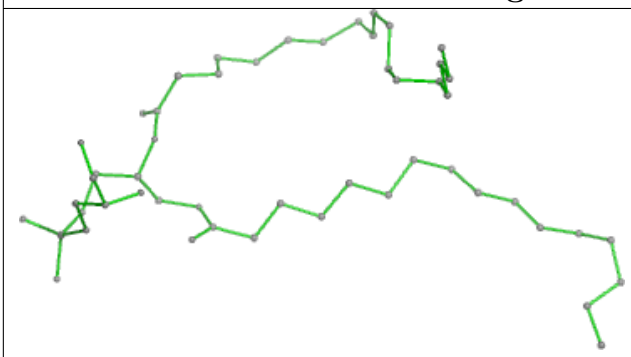


Torsions

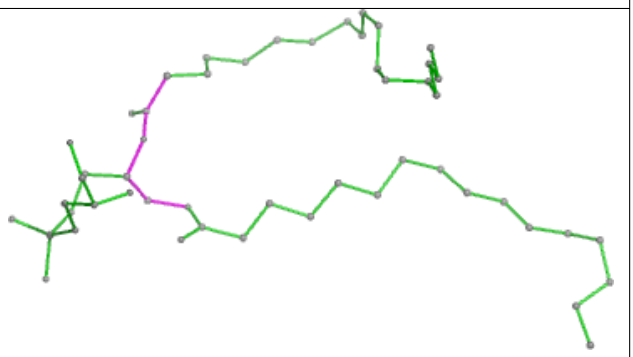


Rings

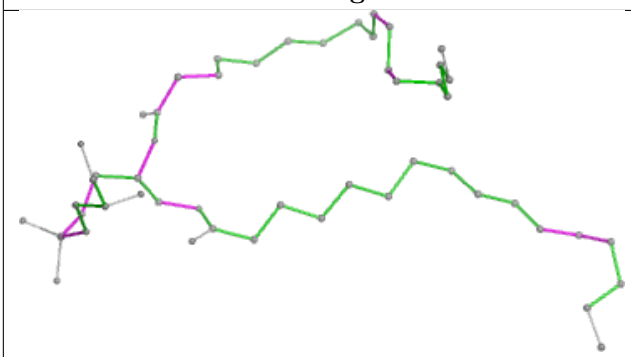
Ligand PGW H1 103



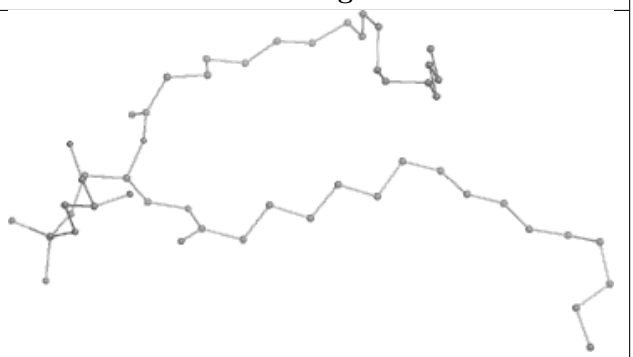
Bond lengths



Bond angles

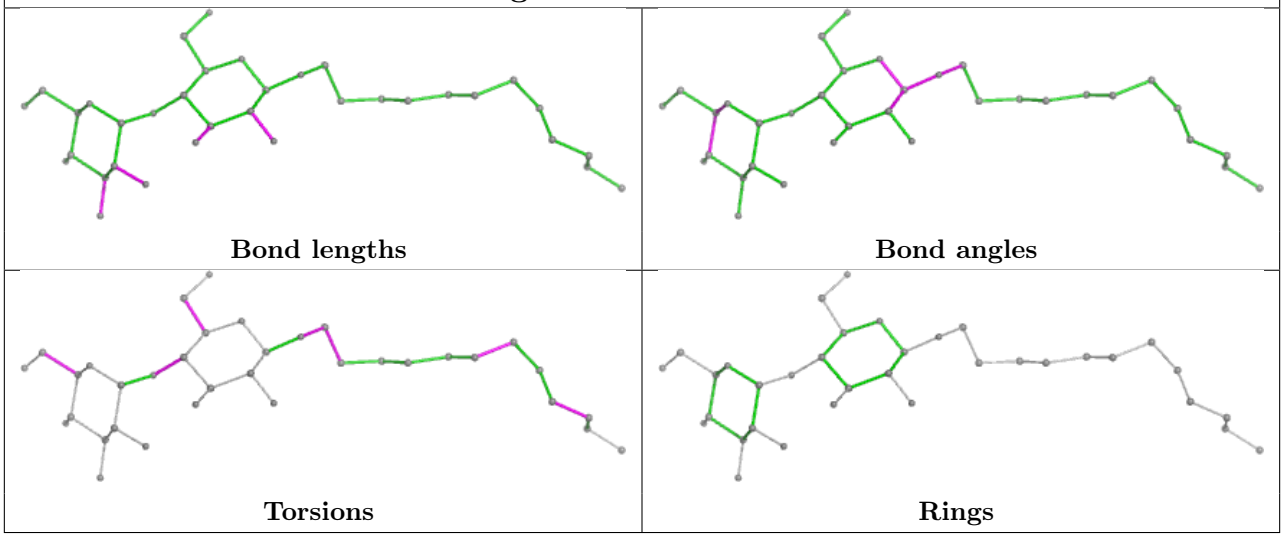


Torsions

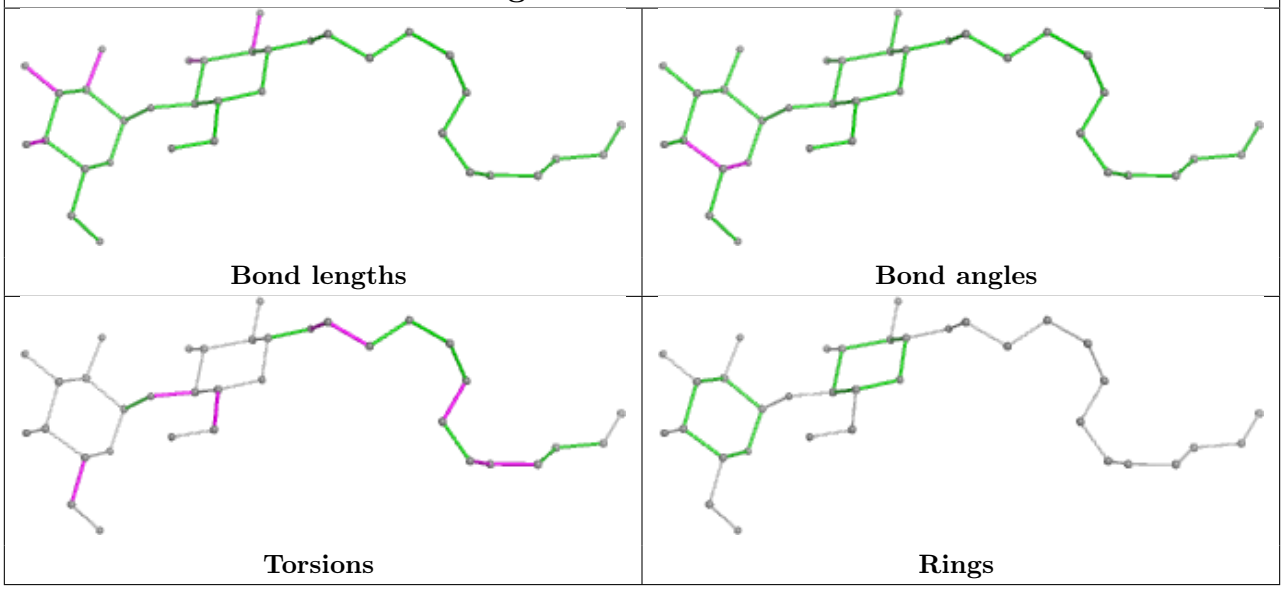


Rings

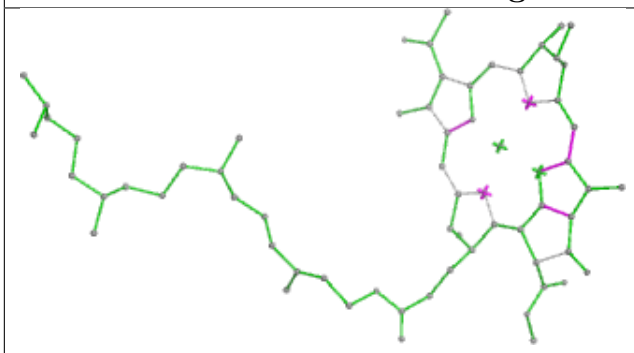
Ligand LMT bm 103



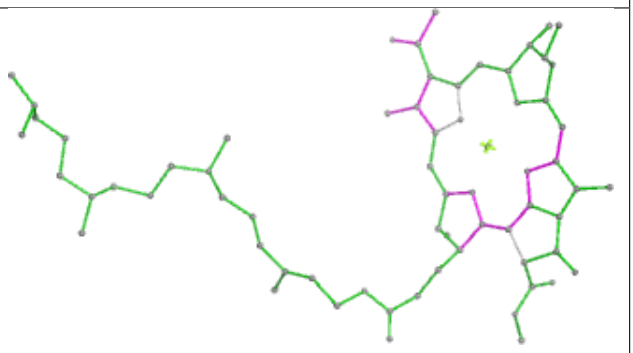
Ligand LMT AG 103



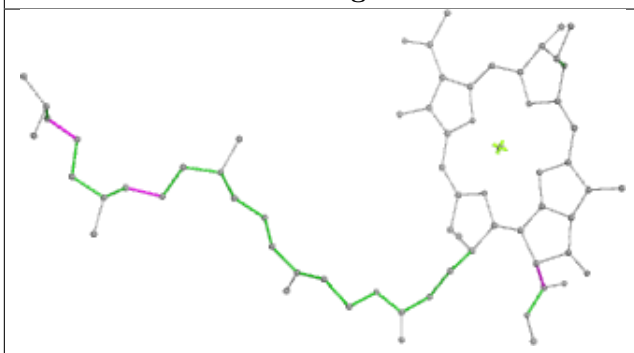
Ligand BCL AM 101



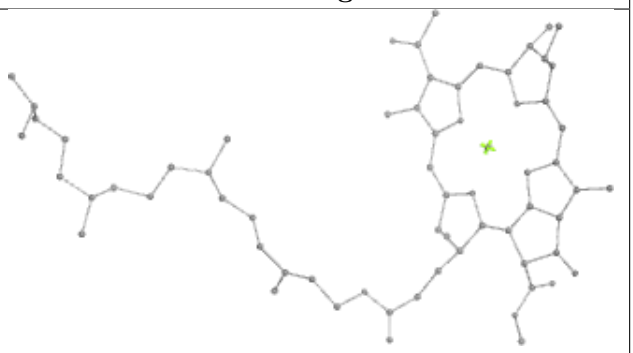
Bond lengths



Bond angles

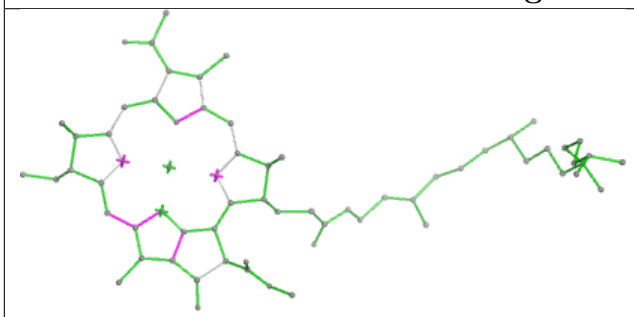


Torsions

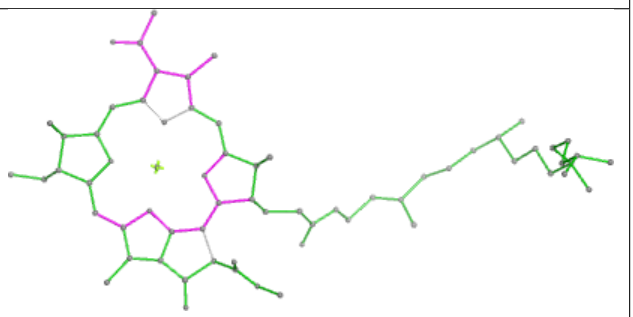


Rings

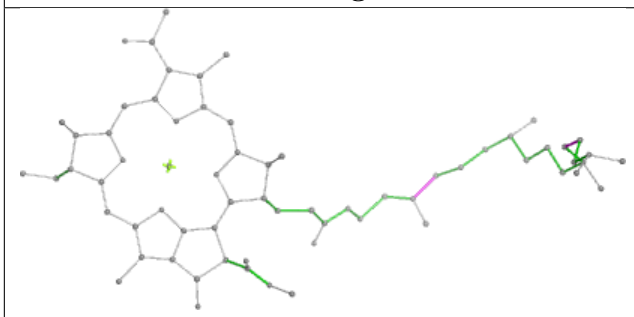
Ligand BCL af 101



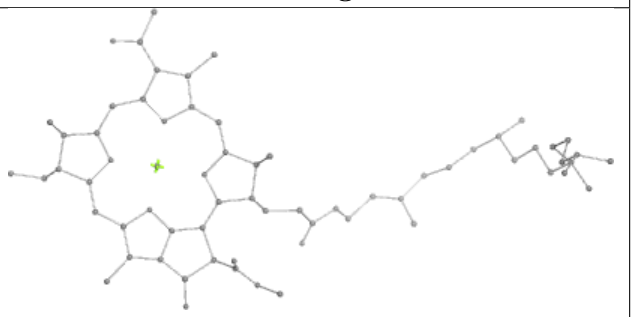
Bond lengths



Bond angles

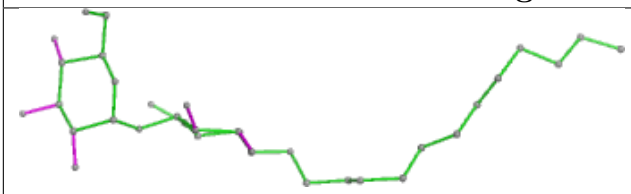


Torsions



Rings

Ligand LMT be 104



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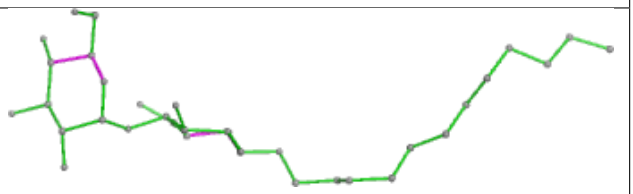

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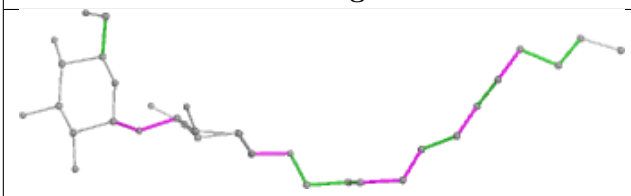

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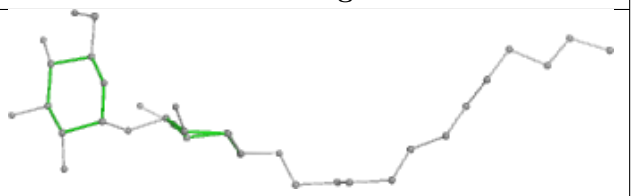
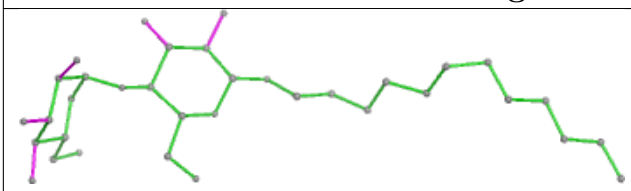


Rings

Ligand LMT BA 105



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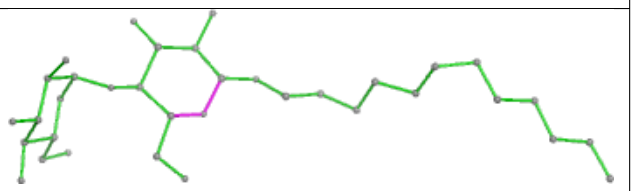
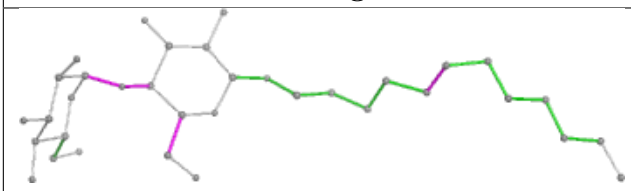


Bond angles



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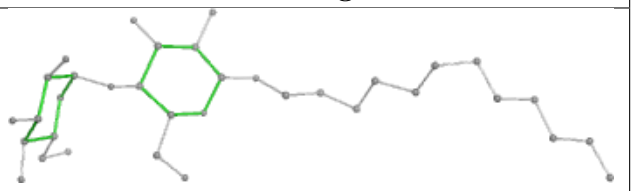
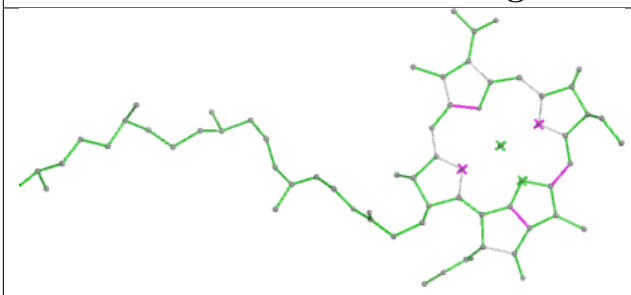


Rings

Ligand BCL BJ 1002



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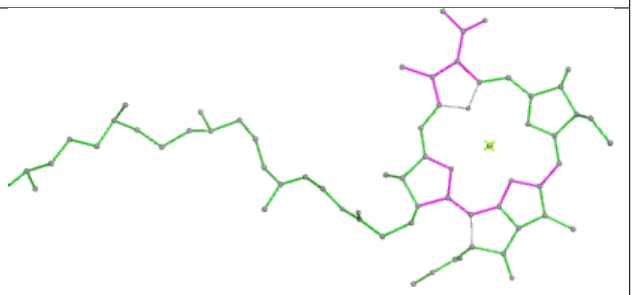
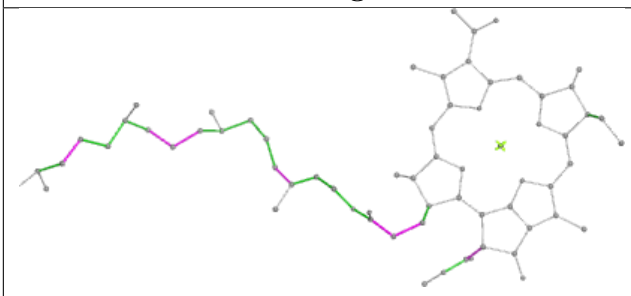


Bond angles



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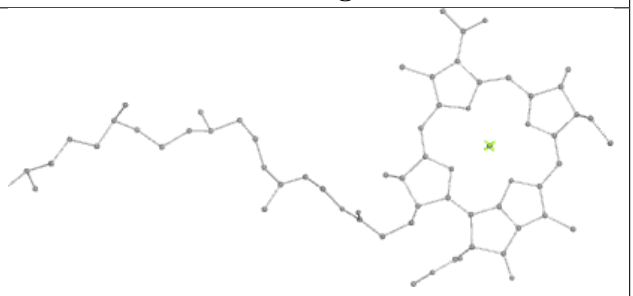
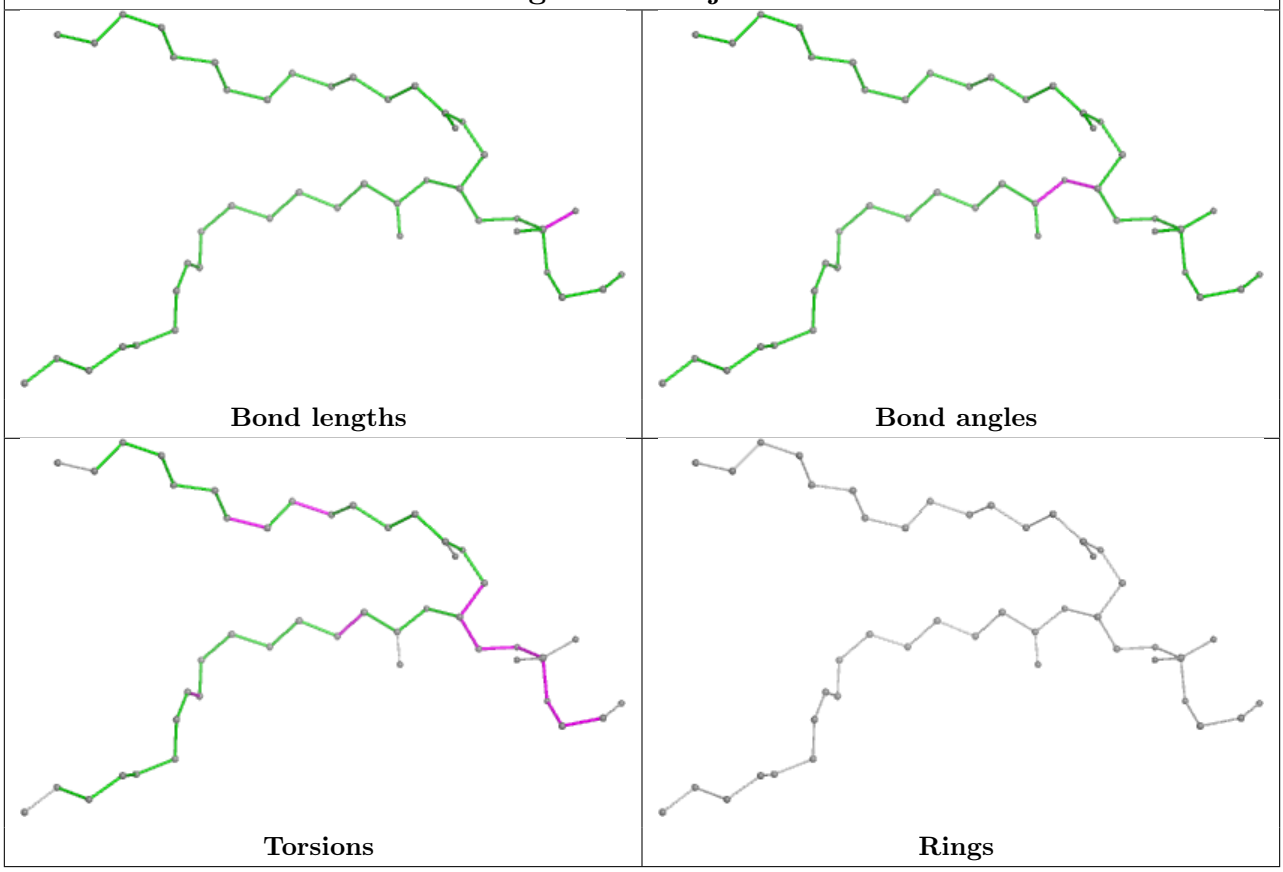
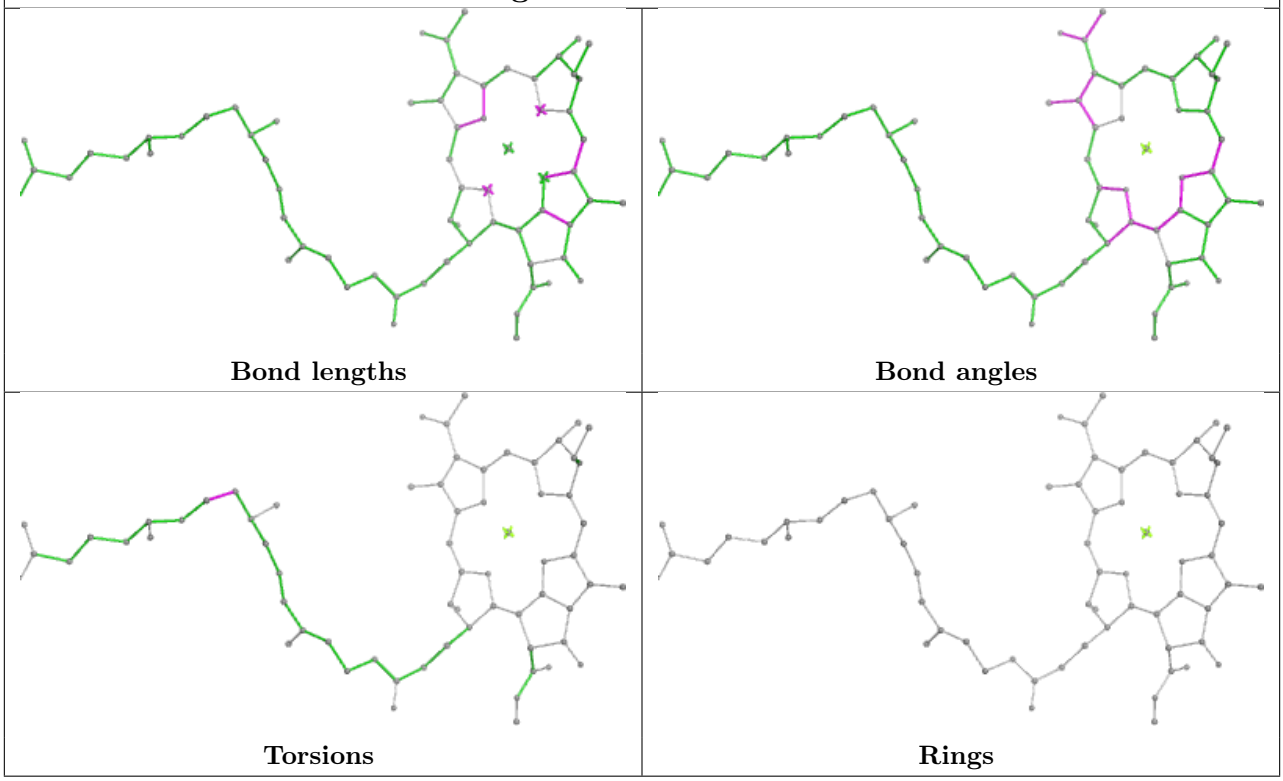


Rings

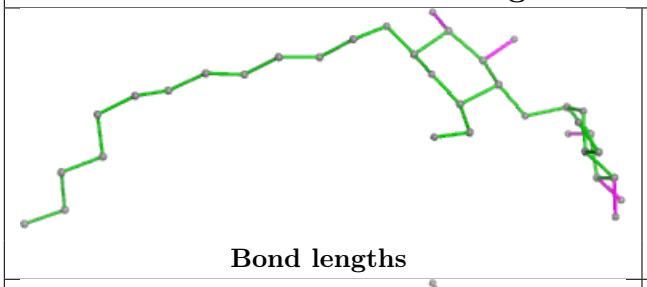
Ligand 0V9 aj 101



Ligand BCL AK 102



Ligand LMT BN 102



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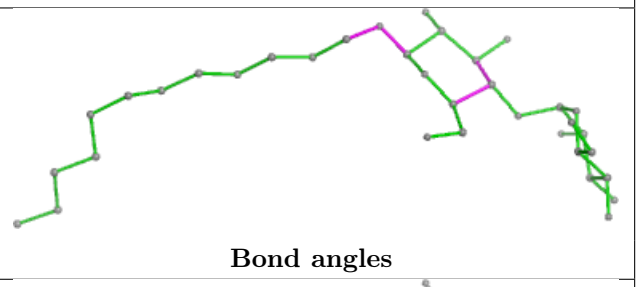
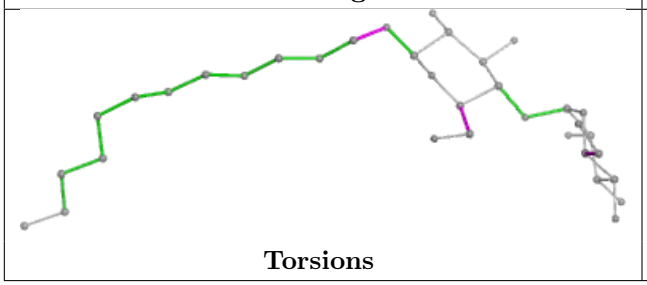


Bond angles



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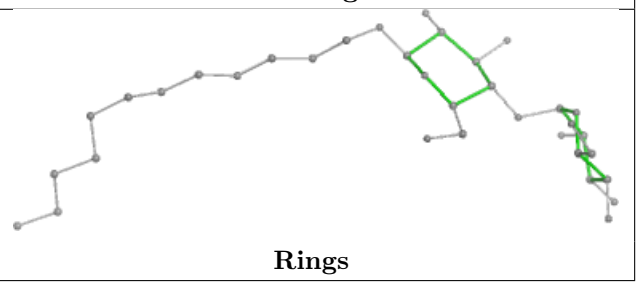
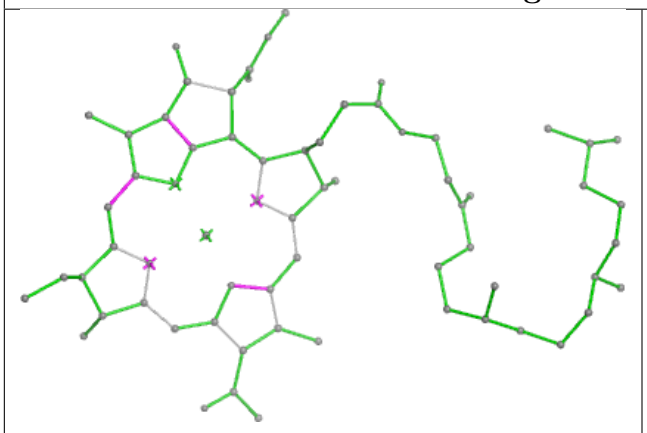


Rings

Ligand BCL bf 103



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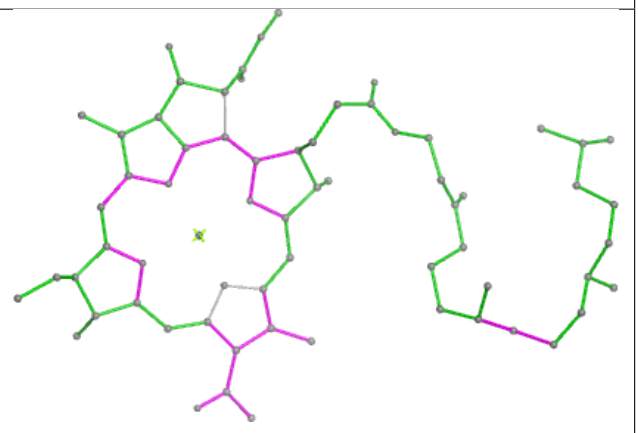
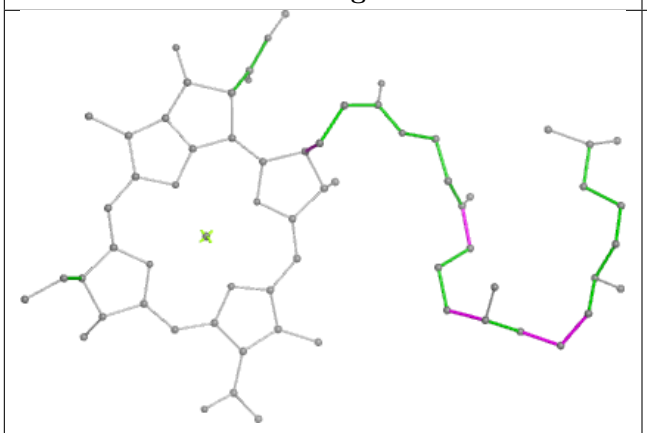


Bond angles



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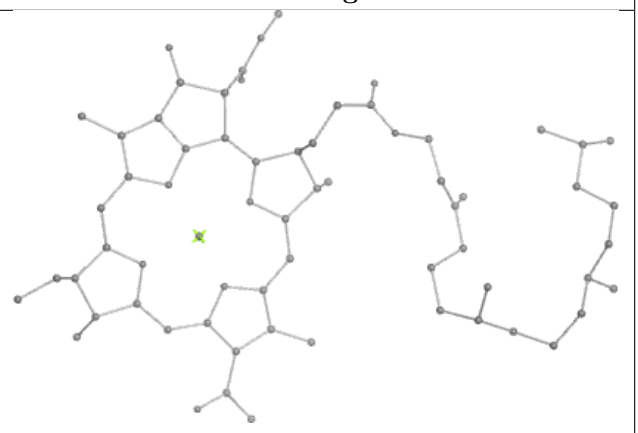
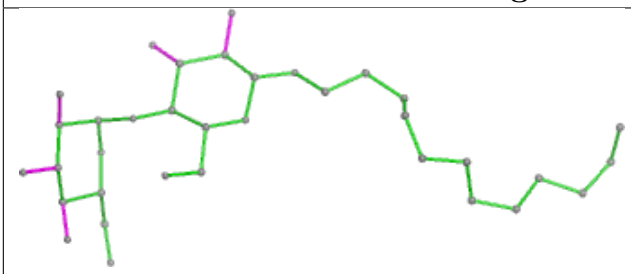


Rings

Ligand LMT AS 101



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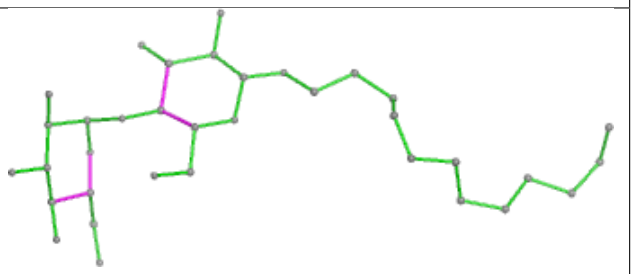

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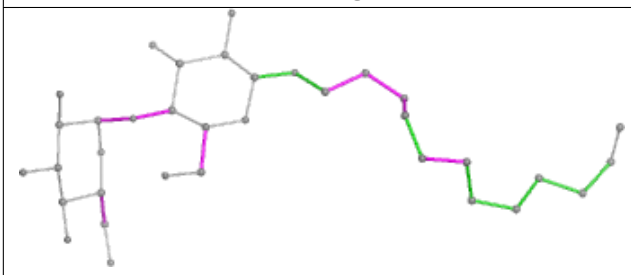

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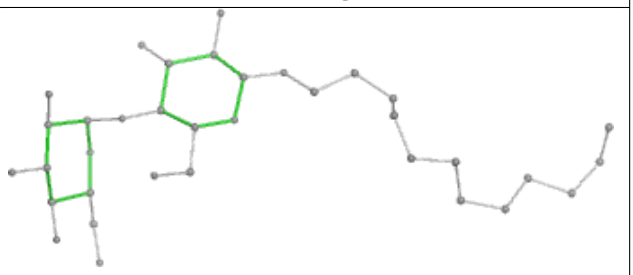
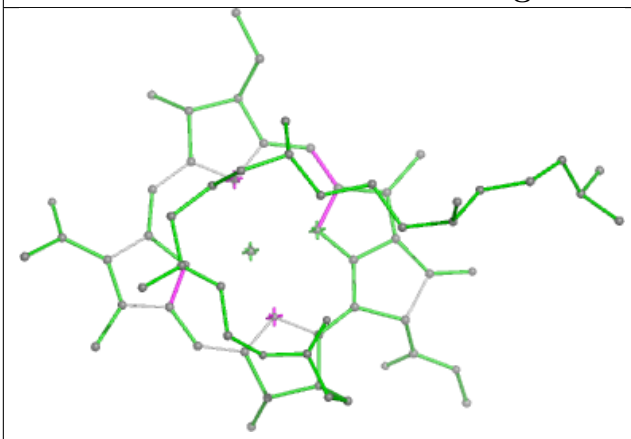


Rings

Ligand BCL AL 101



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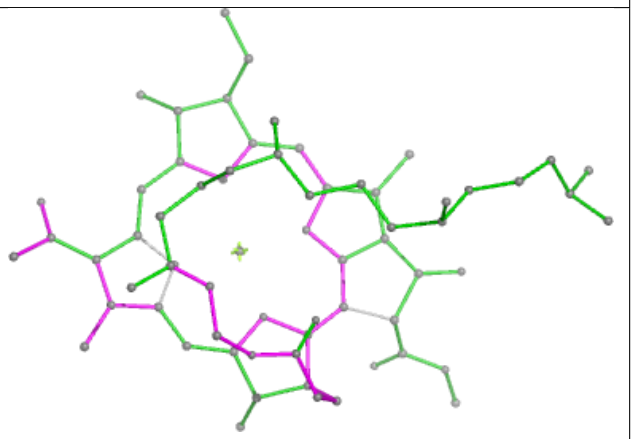

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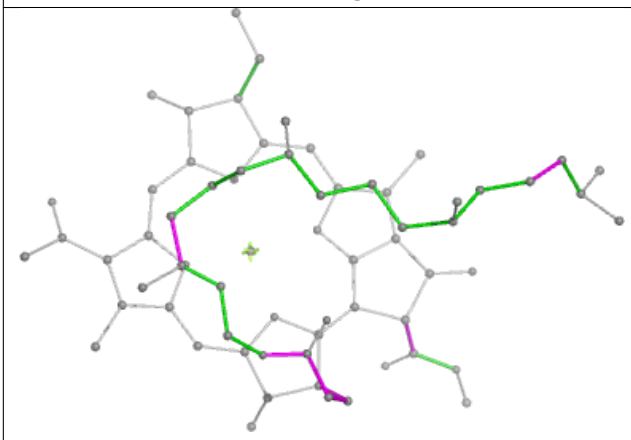

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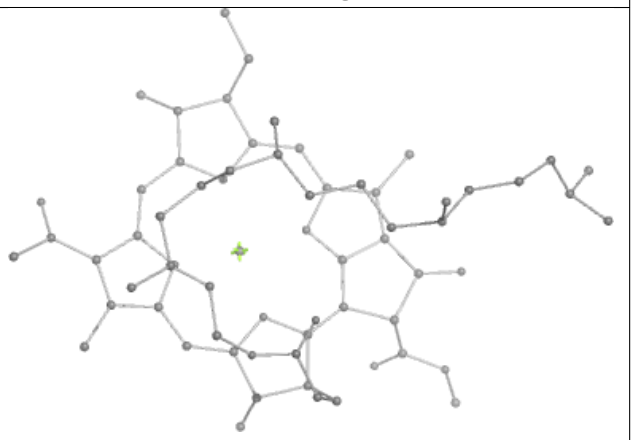
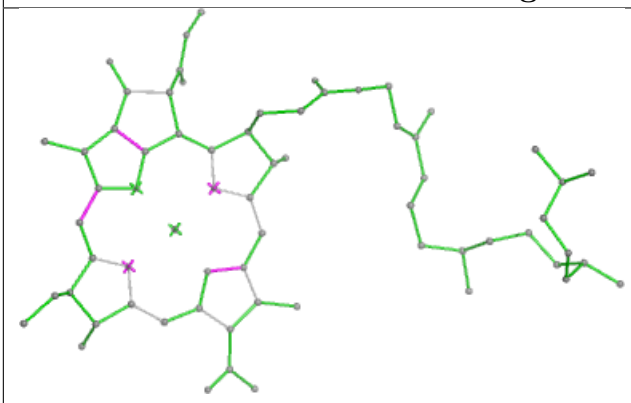


Rings

Ligand BCL bc 102



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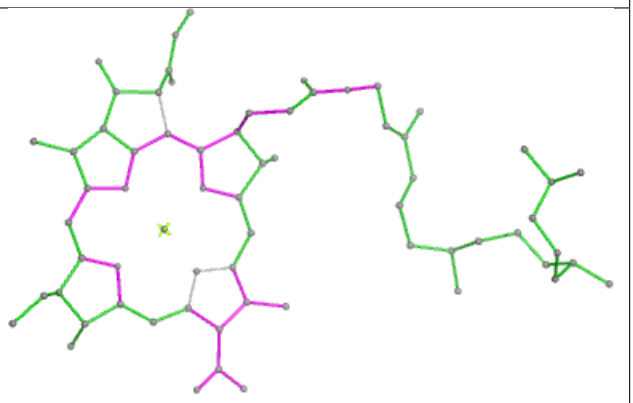
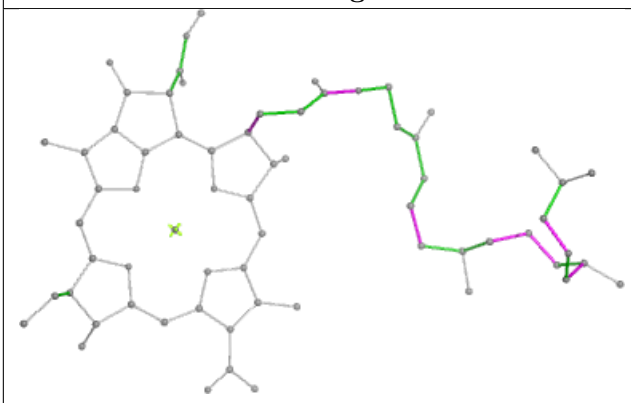
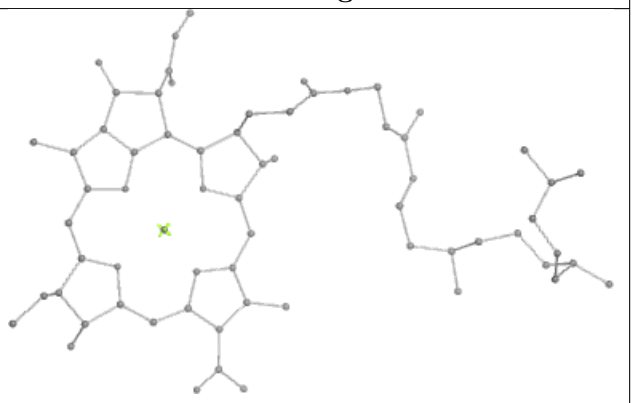


Bond angles

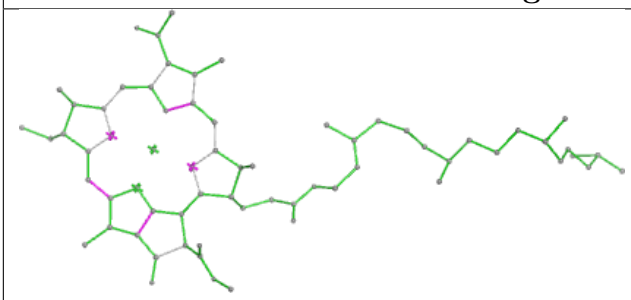


Torsions



Rings

Ligand BCL bi 104



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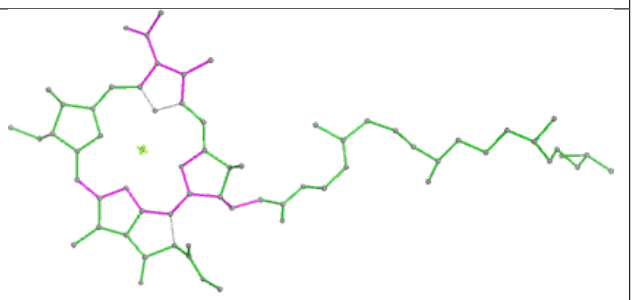
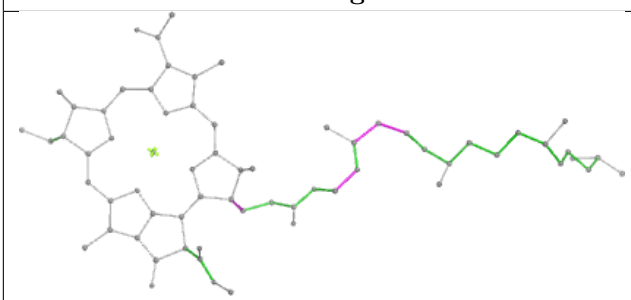


Bond angles



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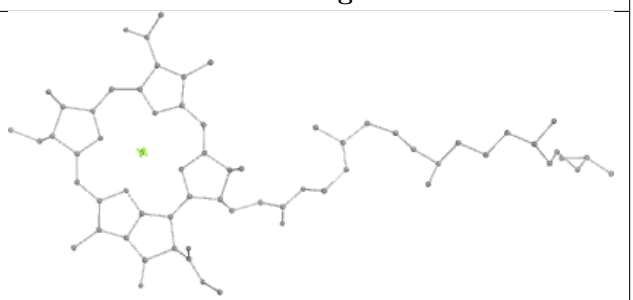
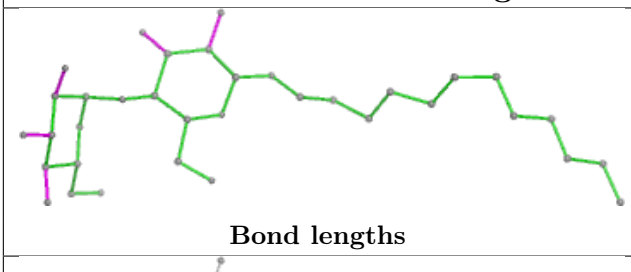


Rings

Ligand LMT BW 1004



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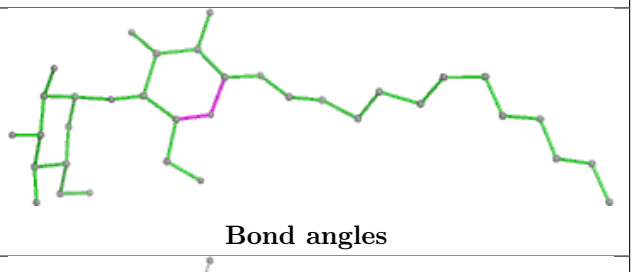
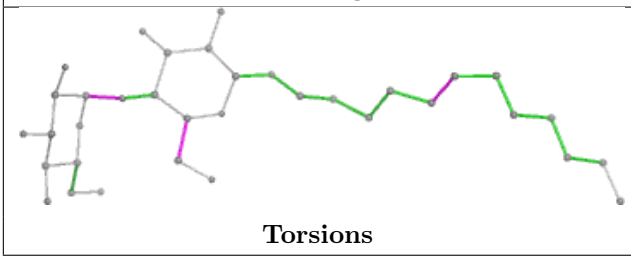


Bond angles



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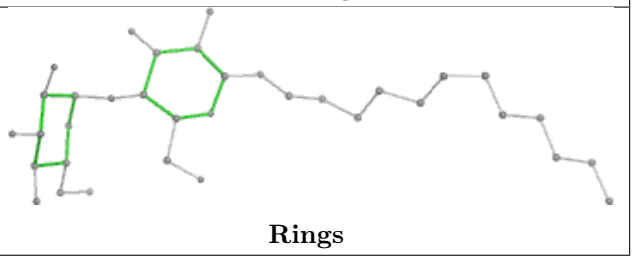
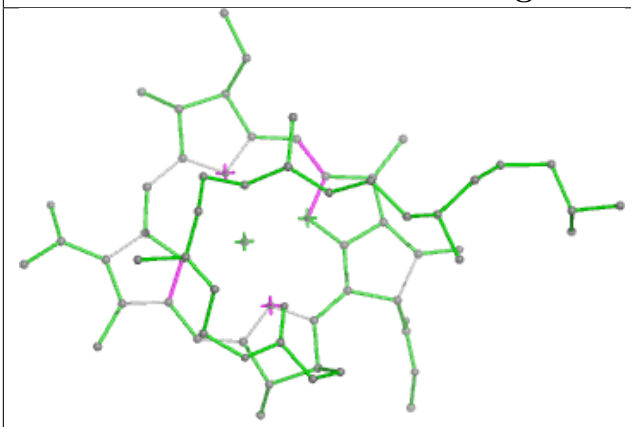


Rings

Ligand BCL AJ 102



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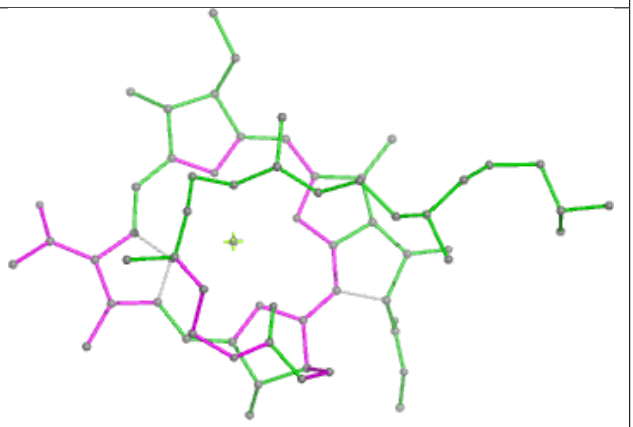
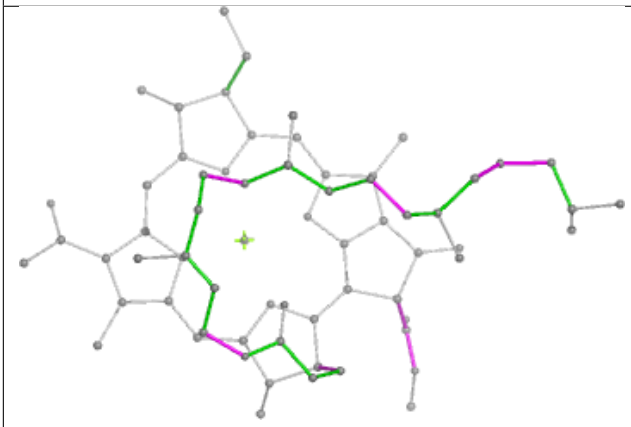


Bond angles



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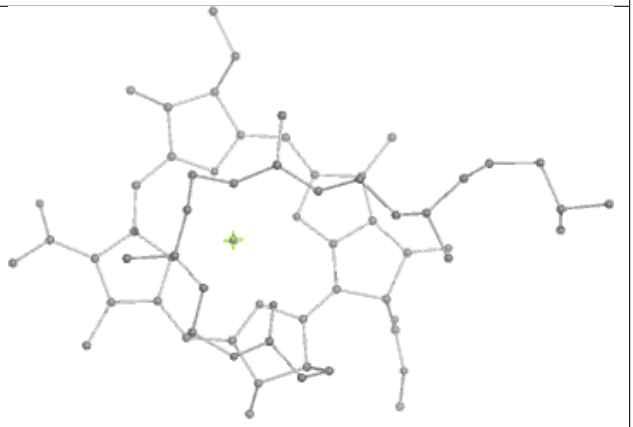
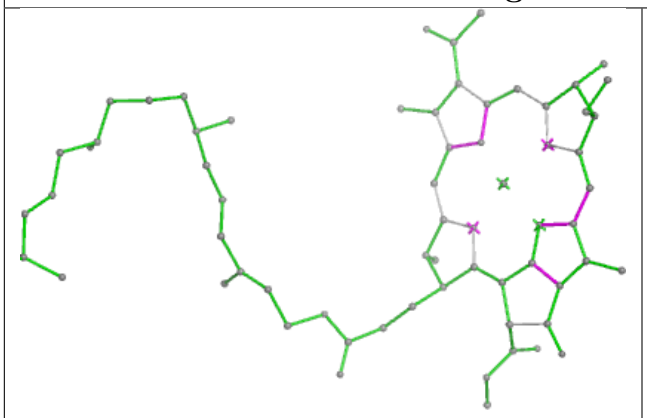
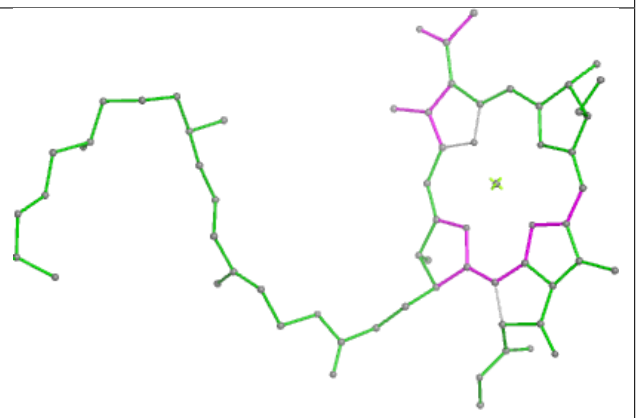


Rings

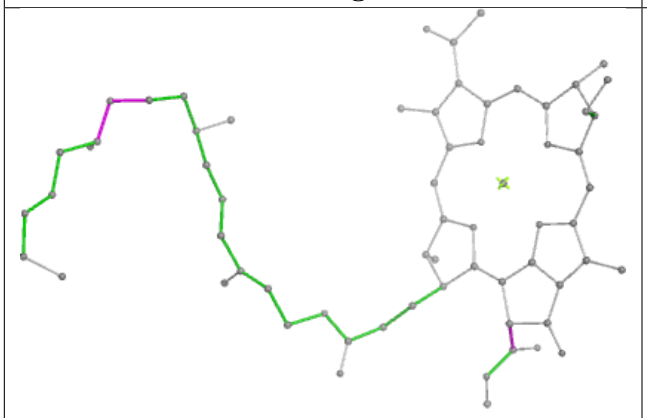
Ligand BCL AF 1001



Bond lengths



Bond angles



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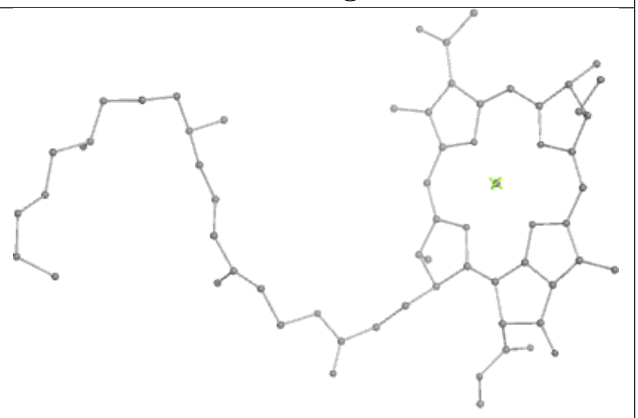
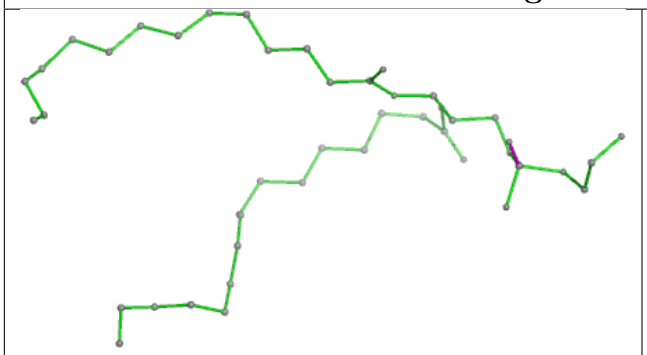


Rings

Ligand 0V9 bk 103



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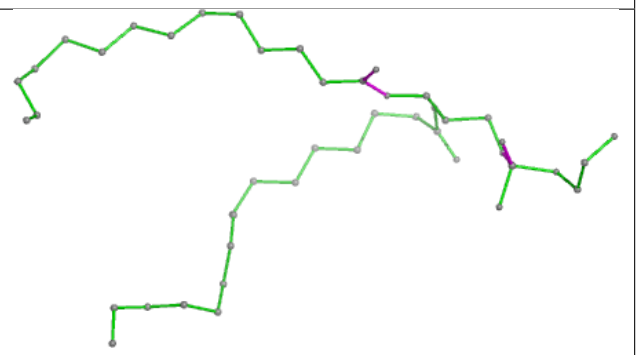
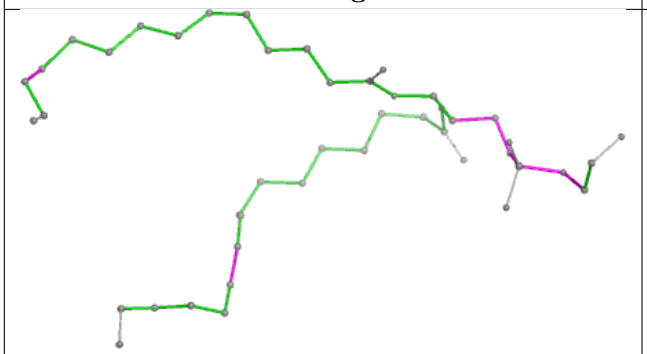


Bond angles



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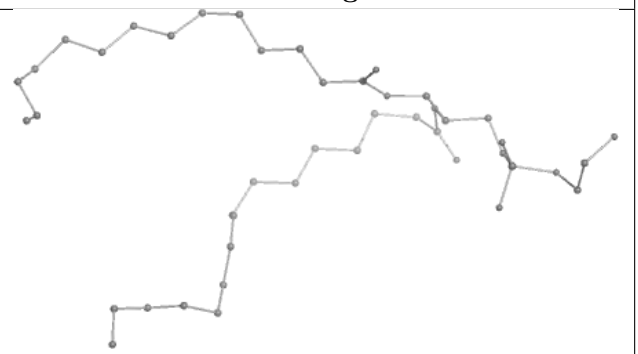
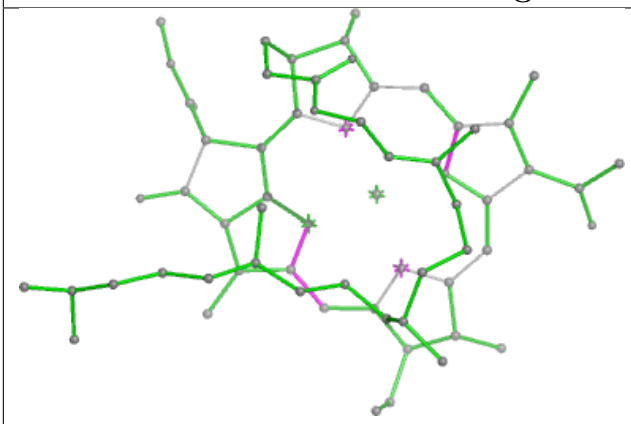
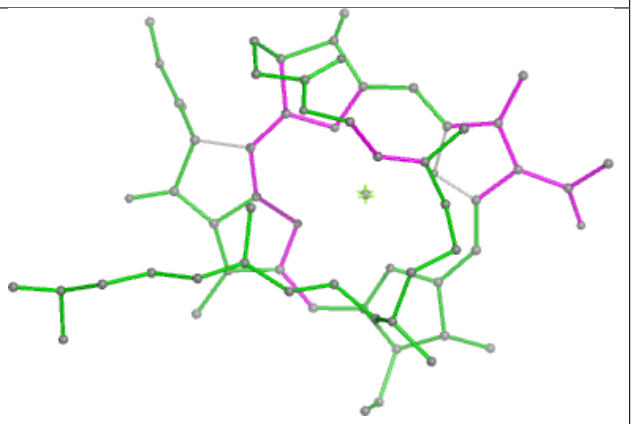


Rings

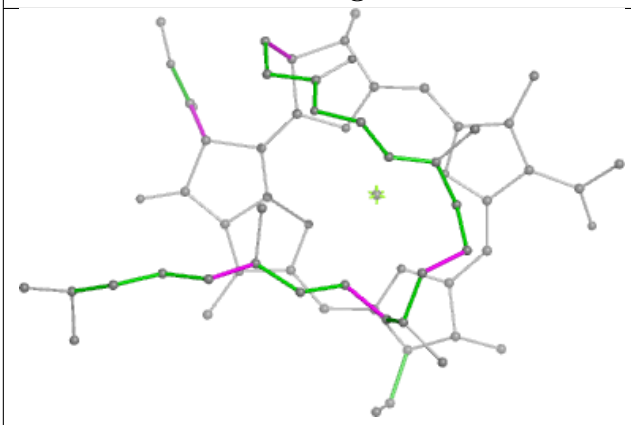
Ligand BCL AS 102



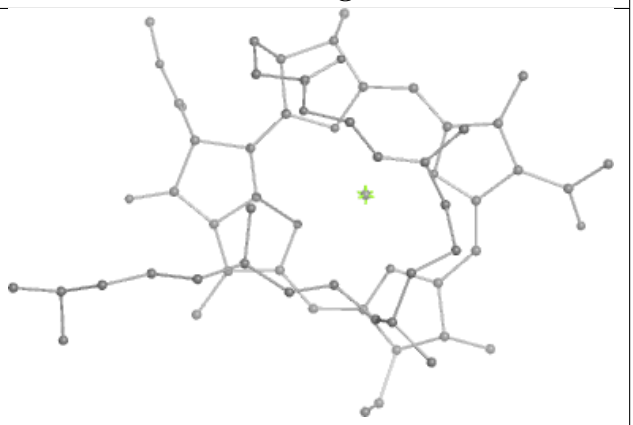
Bond lengths



Bond angles

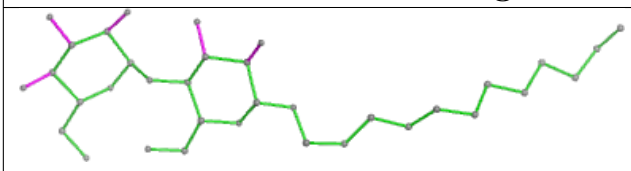


Torsions

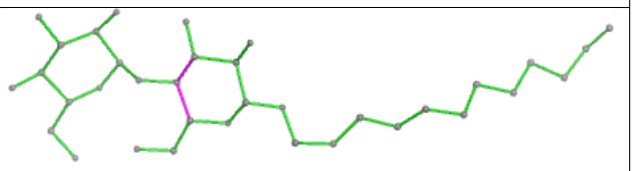


Rings

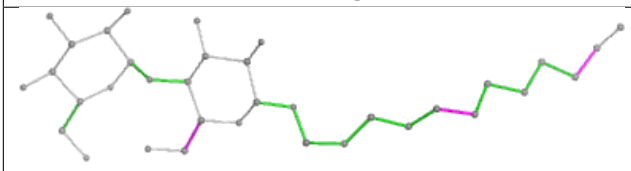
Ligand LMT BW 1002



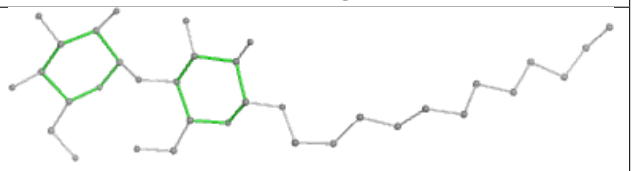
Bond lengths



Bond angles

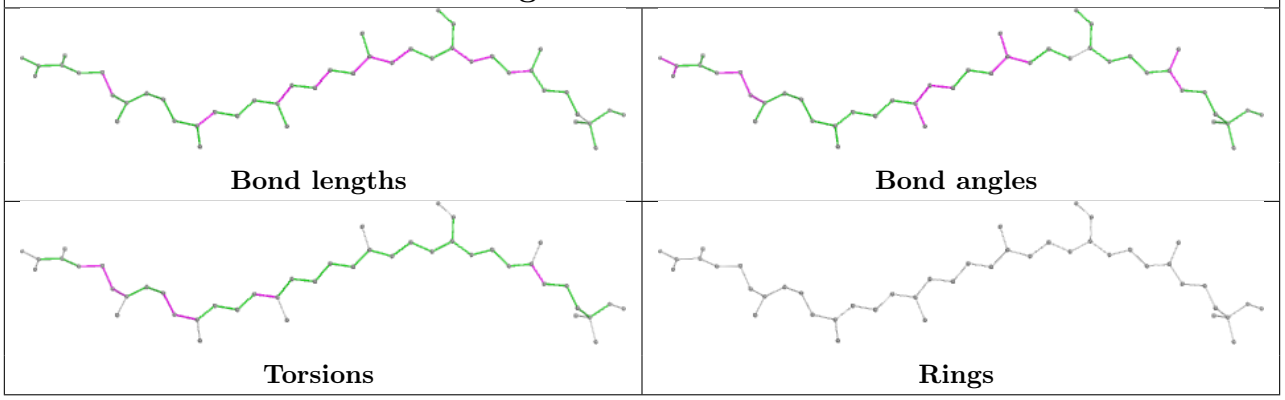


Torsions

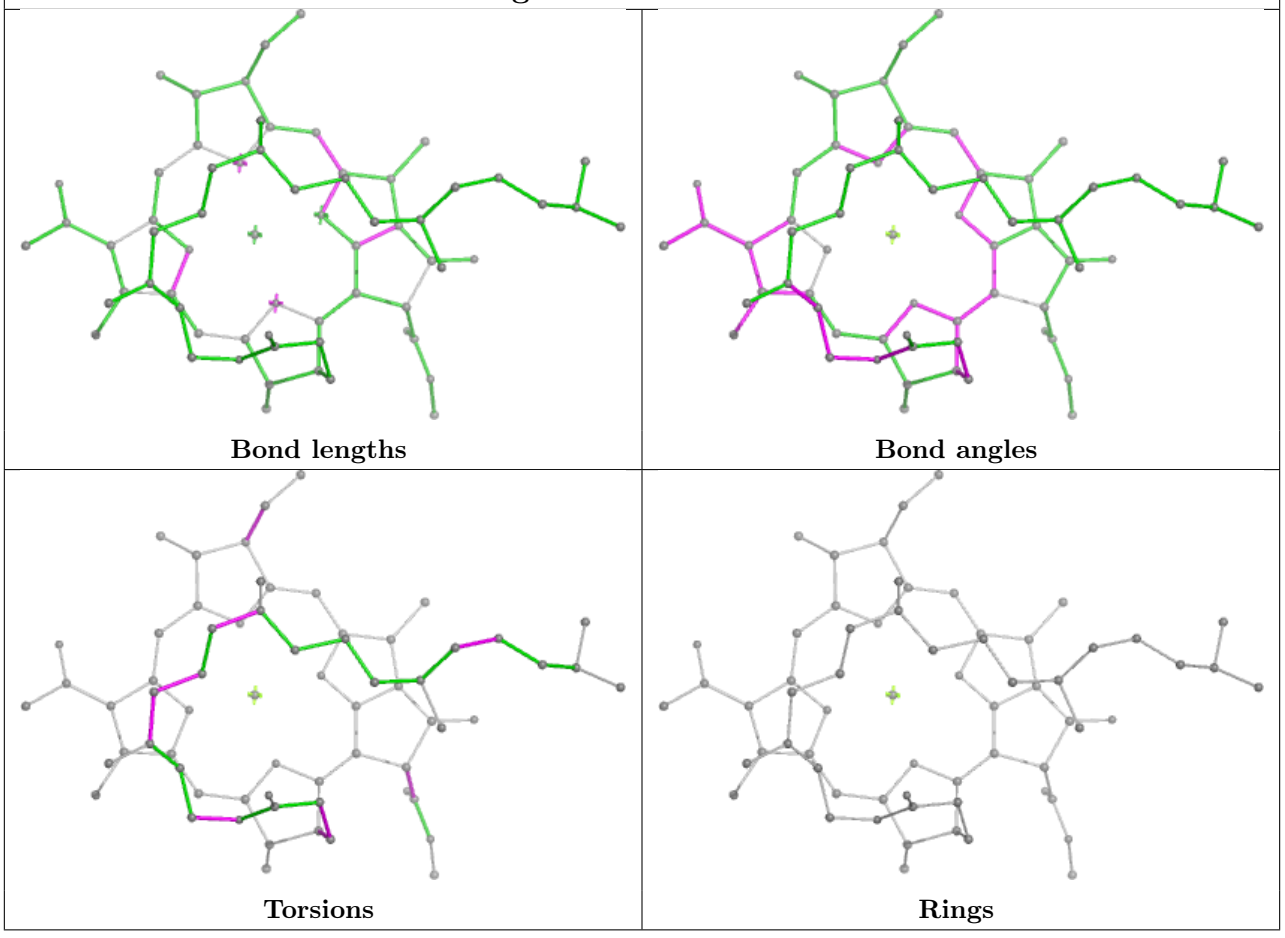


Rings

Ligand V7N bb 101



Ligand BCL AG 101



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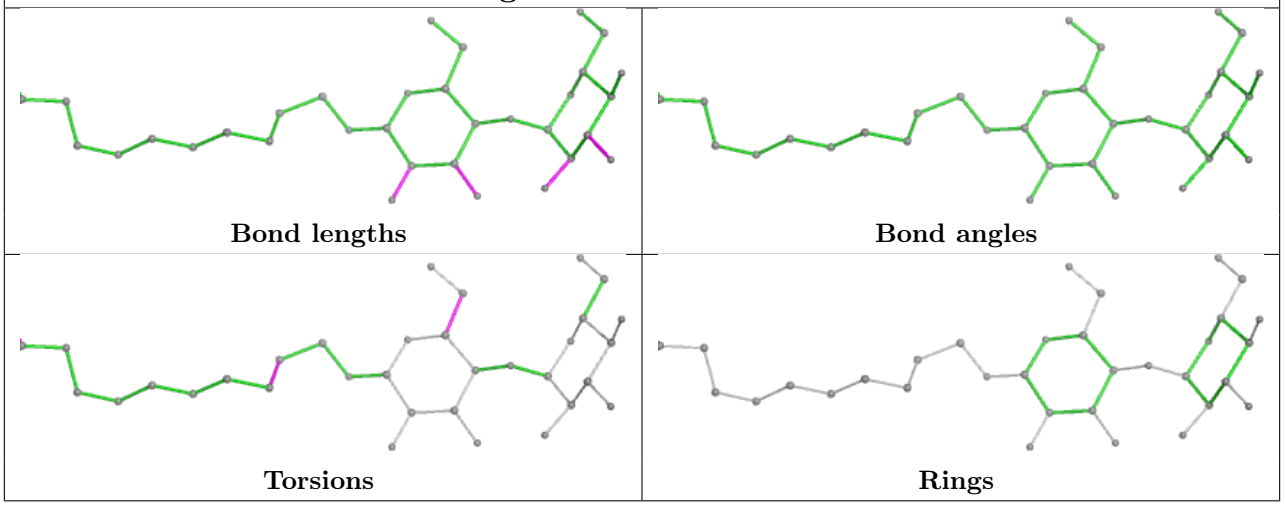
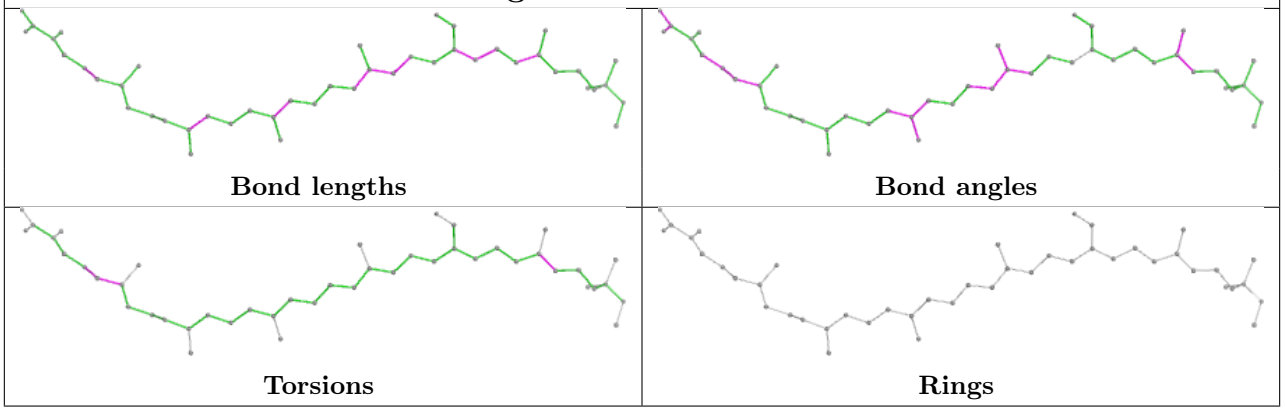
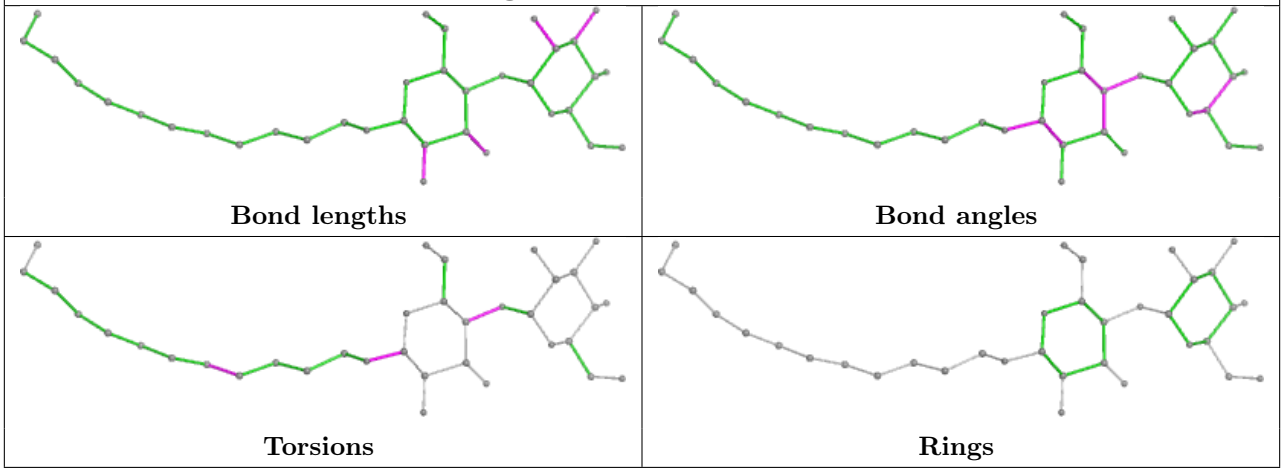


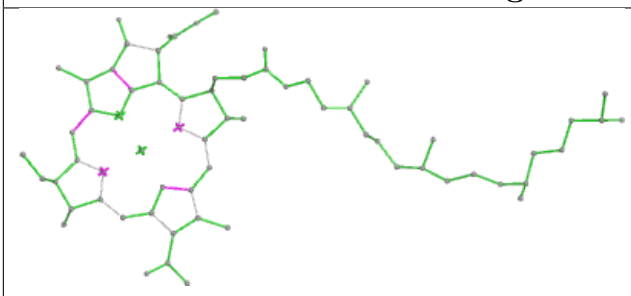
Ligand V7N BS 1001



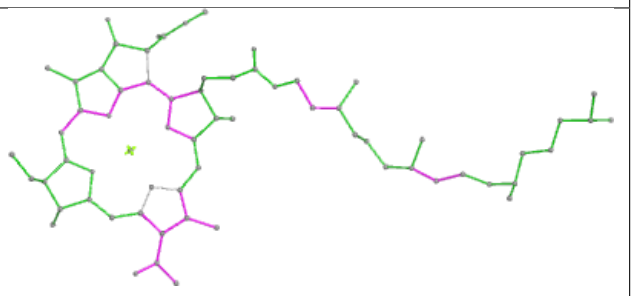
Ligand LMT AE 1002



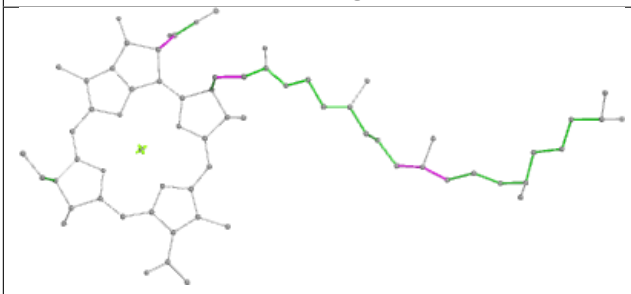
Ligand BCL BS 1003



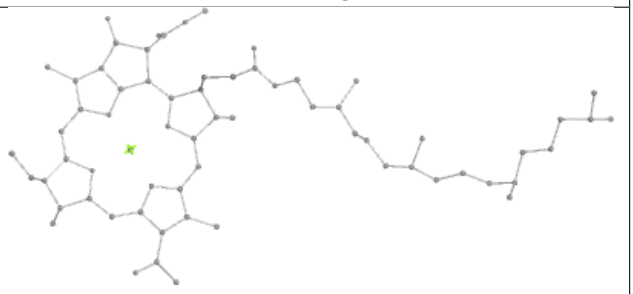
Bond lengths



Bond angles

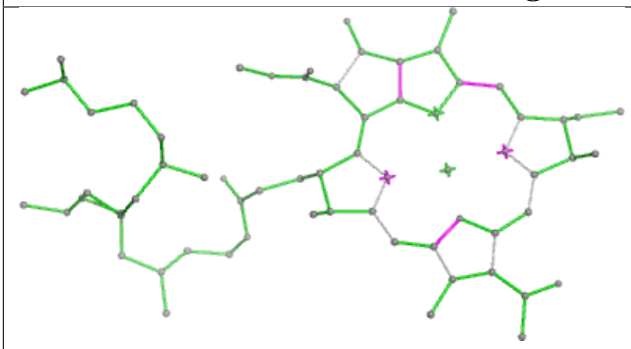


Torsions

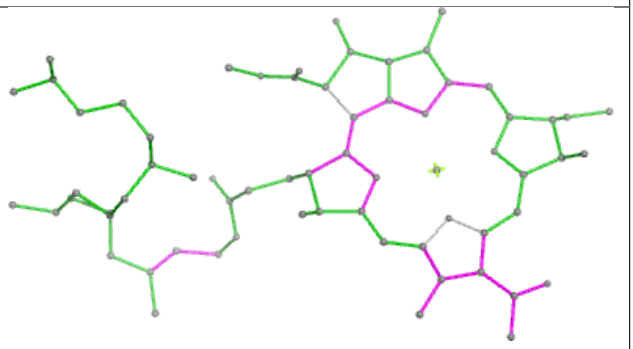


Rings

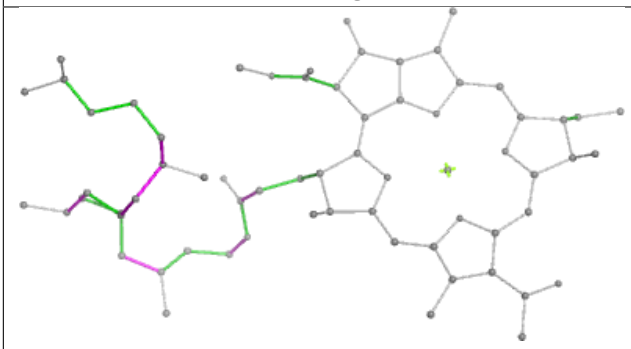
Ligand BCL ai 101



Bond lengths



Bond angles



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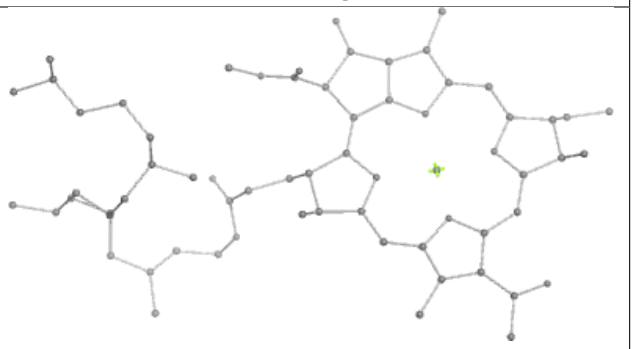
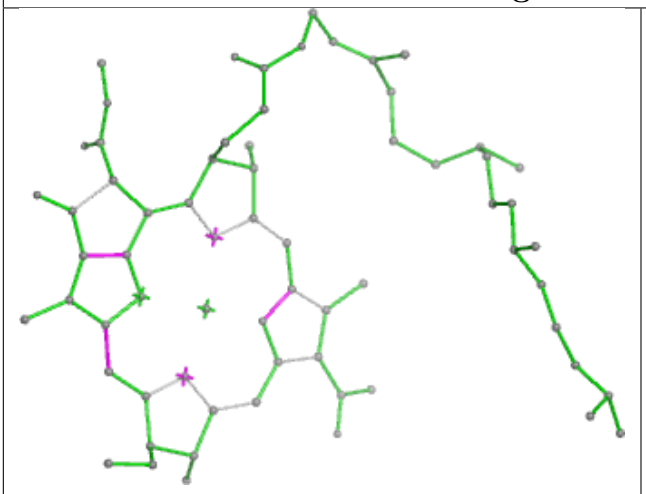
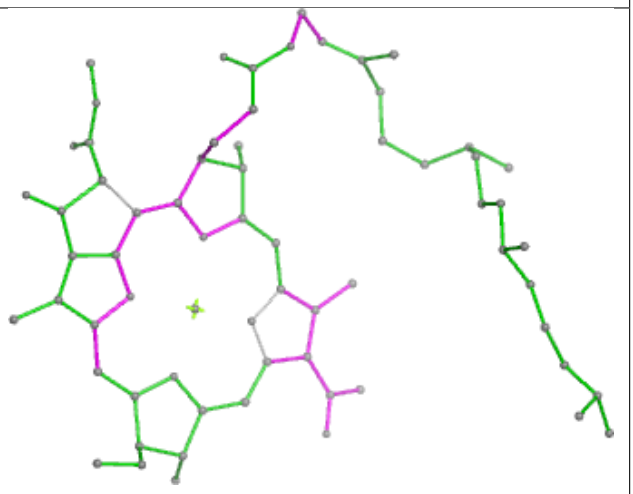


Rings

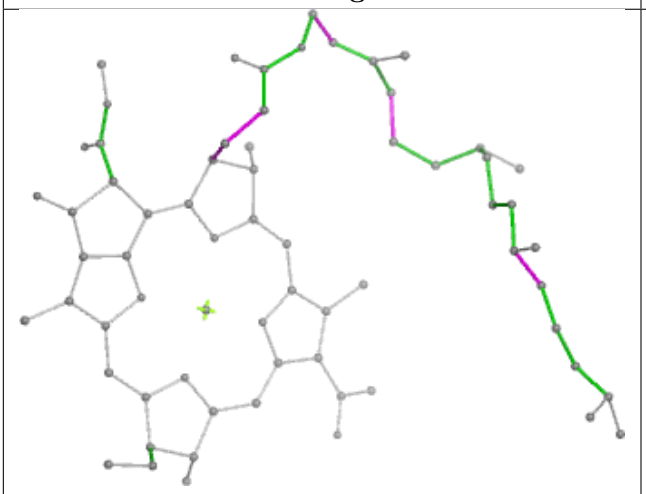
Ligand BCL BT 103



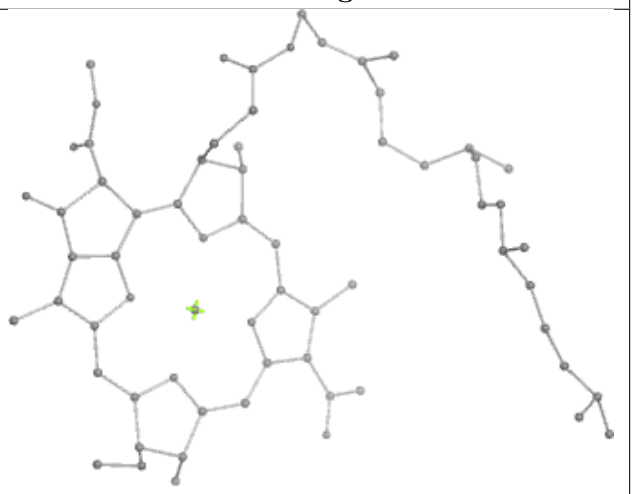
Bond lengths



Bond angles

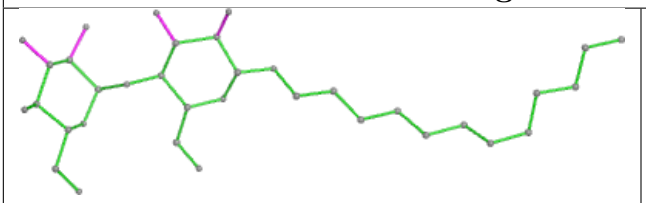


Torsions

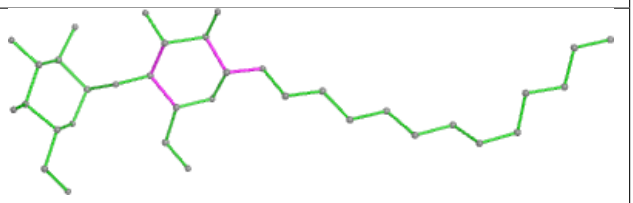


Rings

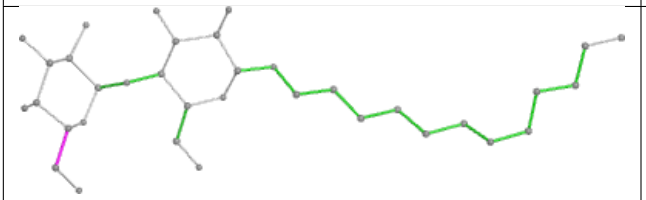
Ligand LMT BM 1004



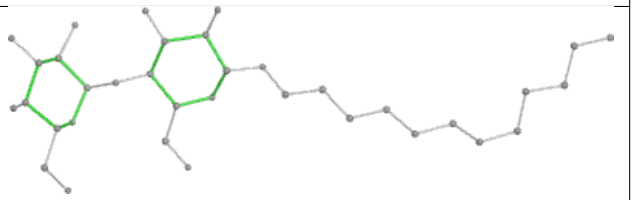
Bond lengths



Bond angles

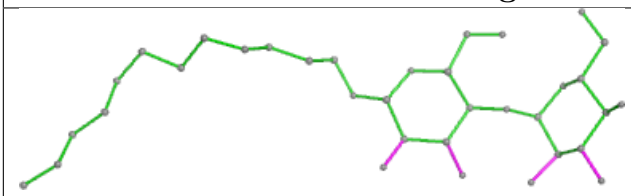


Torsions

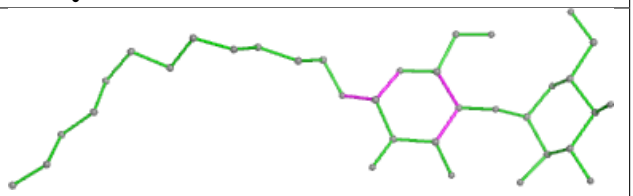


Rings

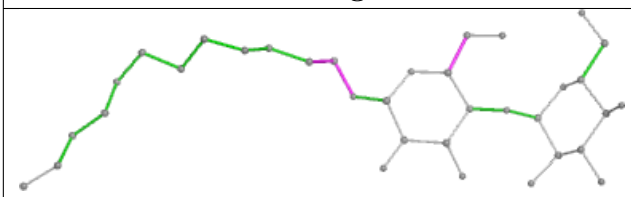
Ligand LMT BQ 1002



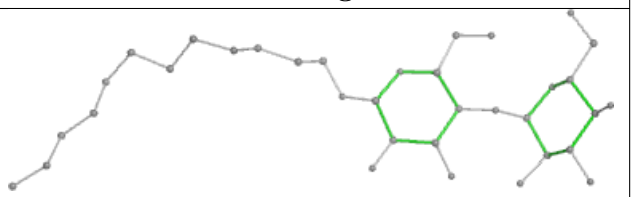
Bond lengths



Bond angles



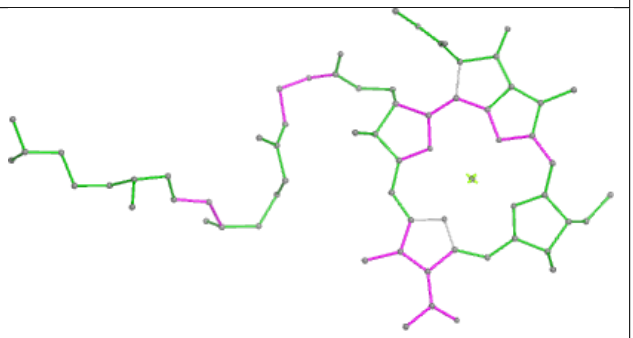
Torsions



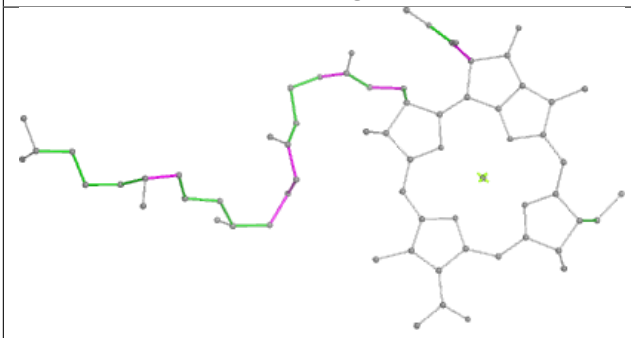
Rings

Ligand BCL BN 103

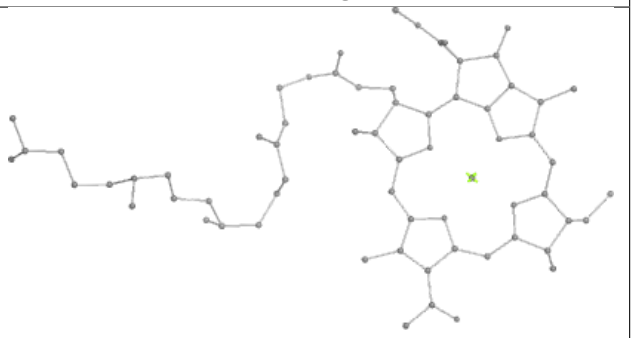
Bond lengths



Bond angles

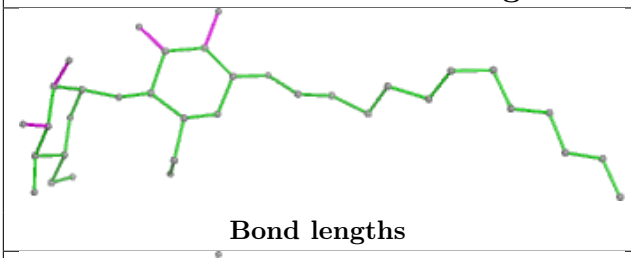


Torsions

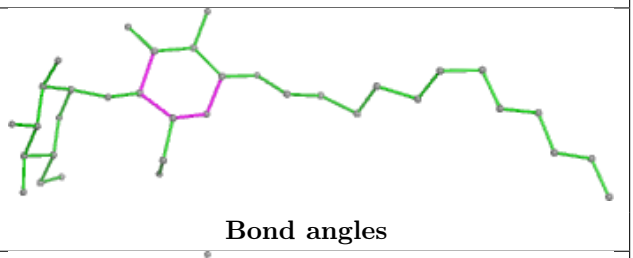


Rings

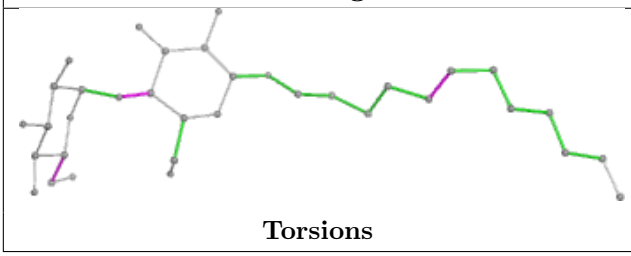
Ligand LMT BS 1002



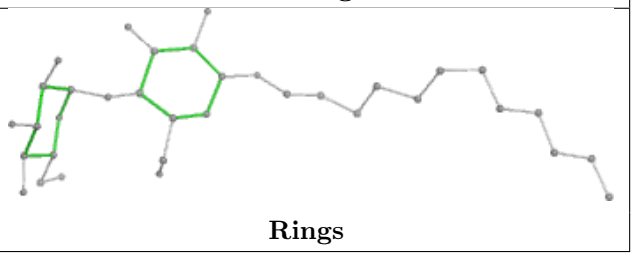
Bond lengths



Bond angles

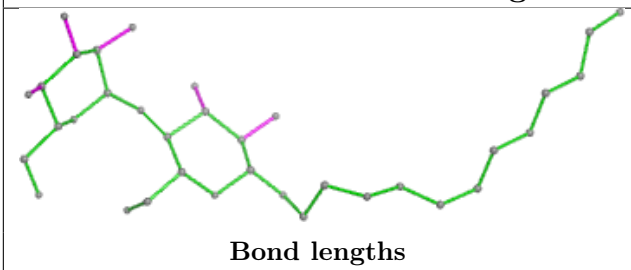


Torsions

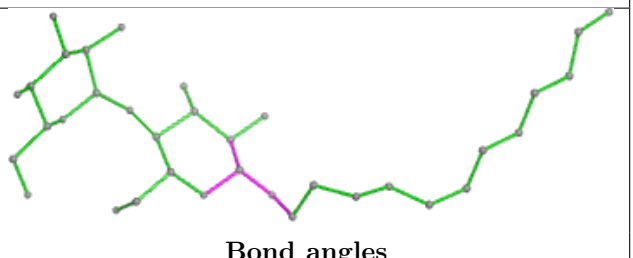


Rings

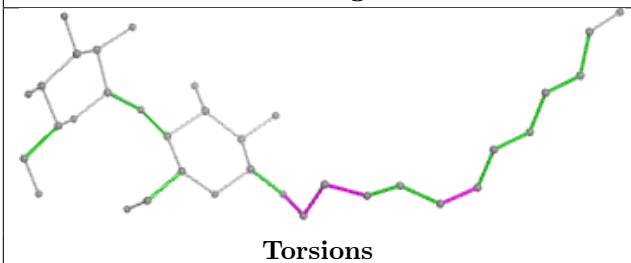
Ligand LMT BT 101



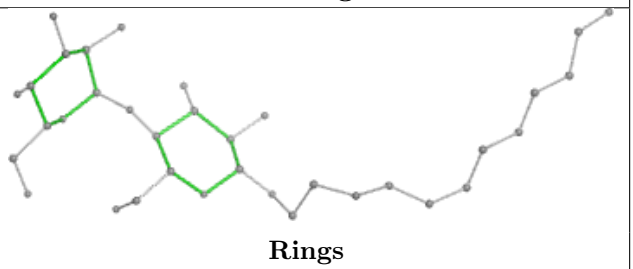
Bond lengths



Bond angles

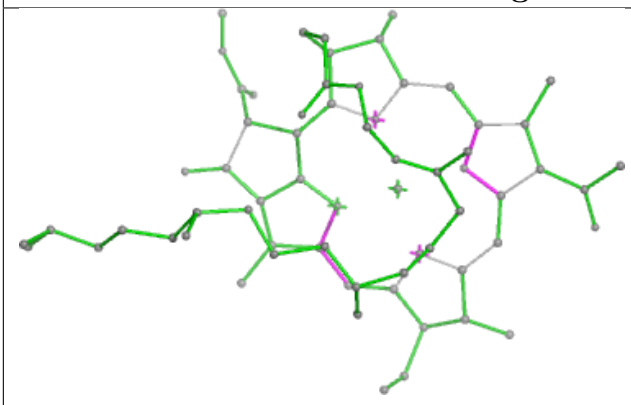


Torsions

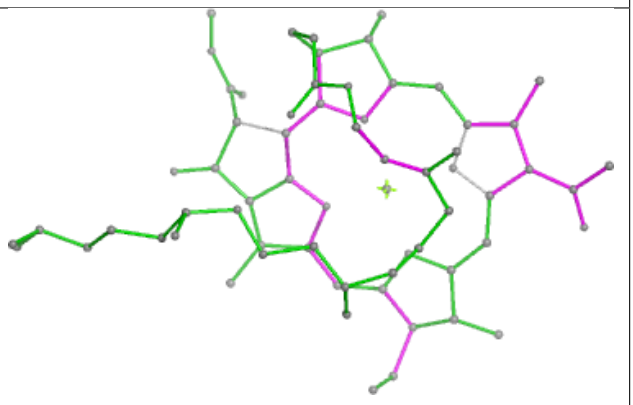


Rings

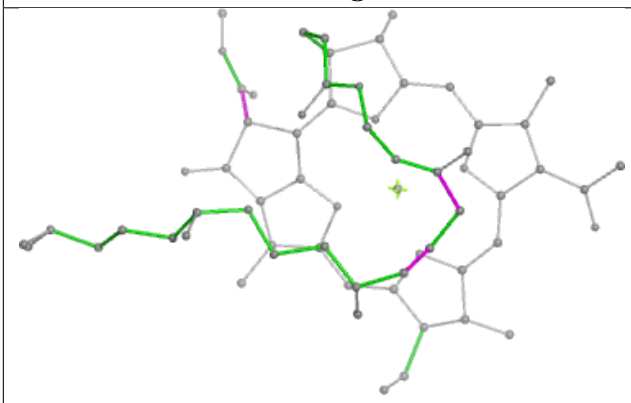
Ligand BCL AU 103



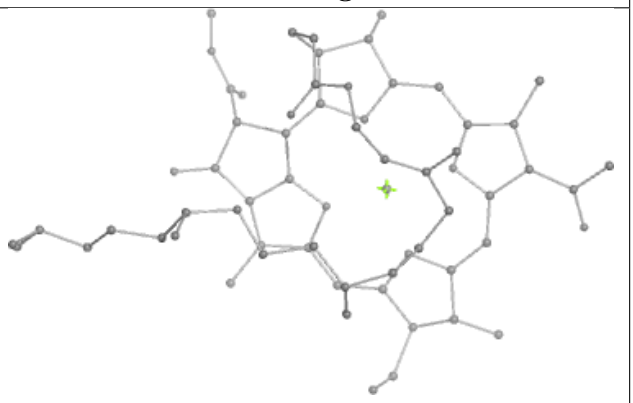
Bond lengths



Bond angles

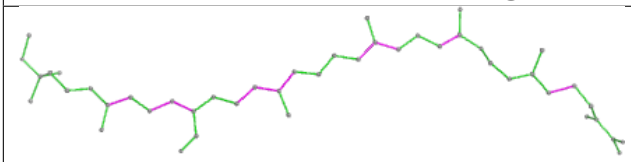


Torsions

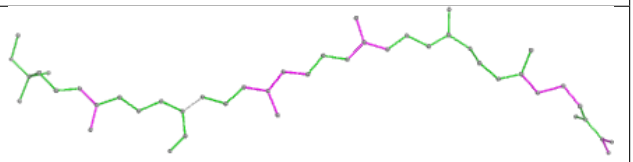


Rings

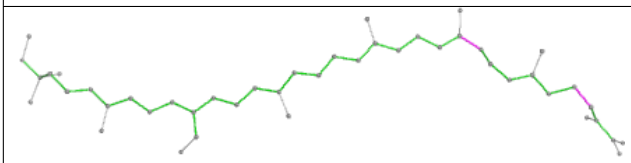
Ligand V7N BK 1001



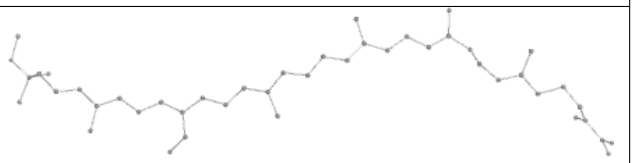
Bond lengths



Bond angles

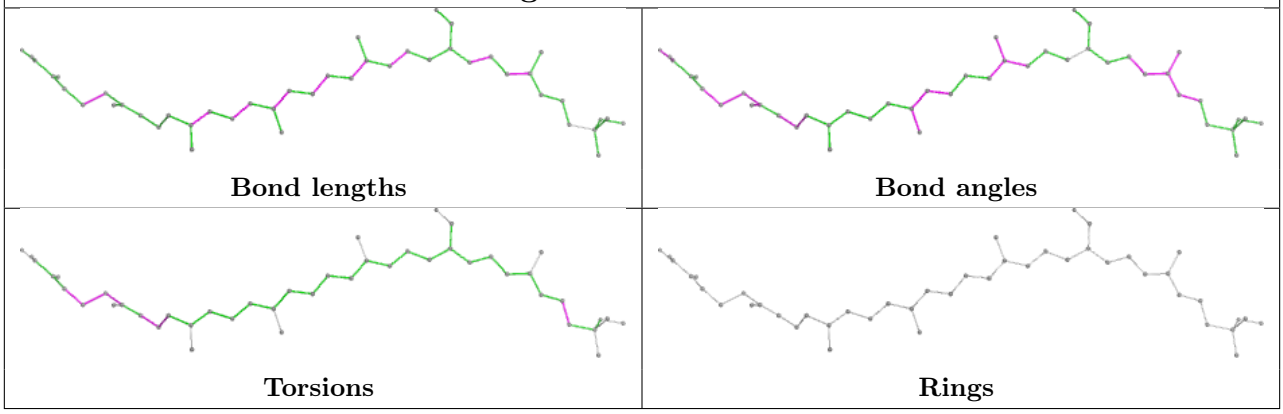


Torsions

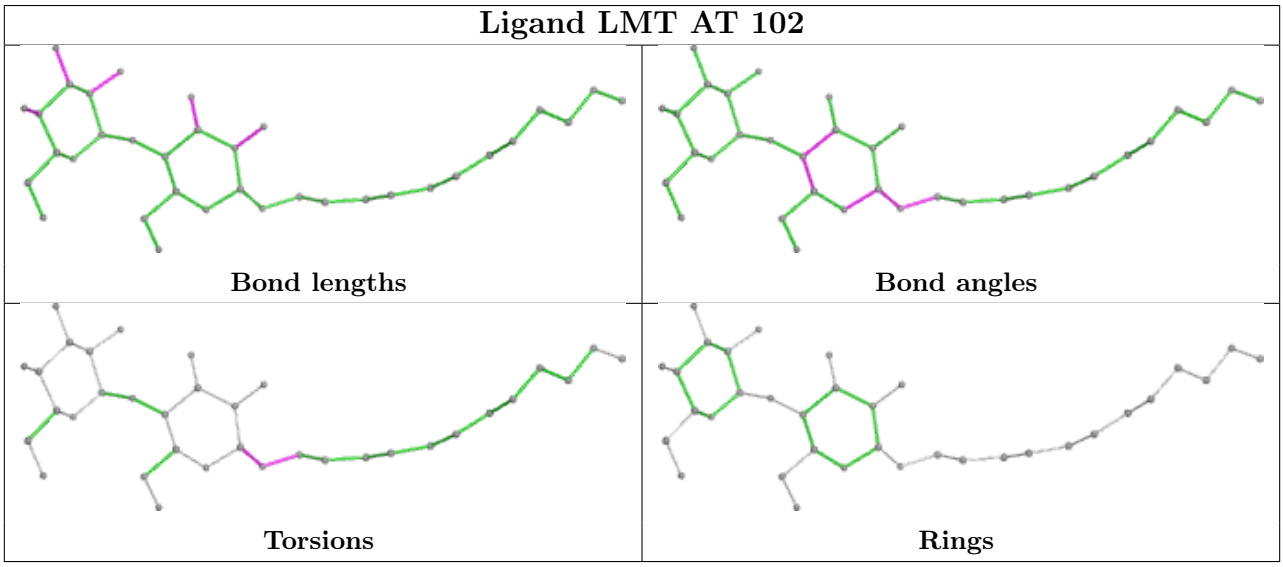


Rings

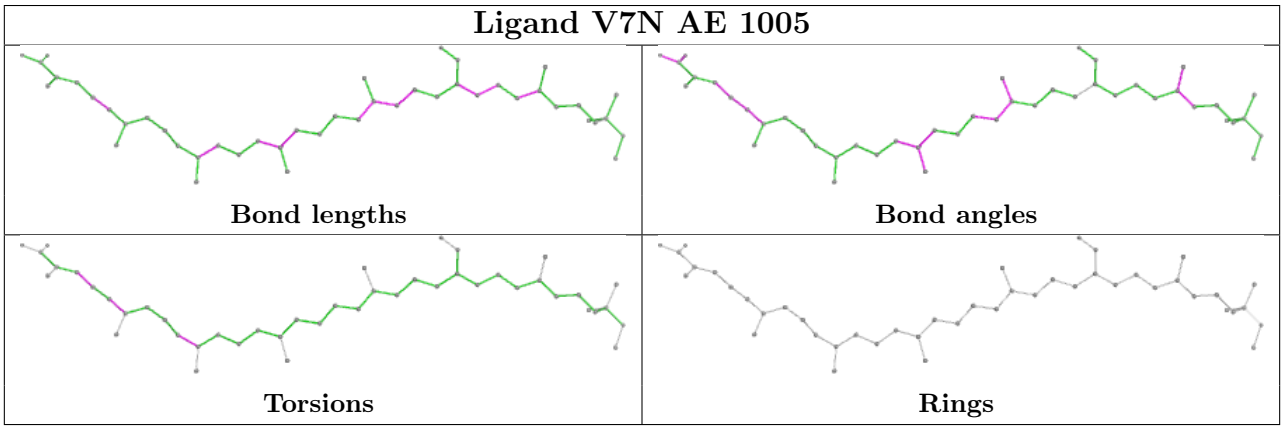
Ligand V7N ba 101



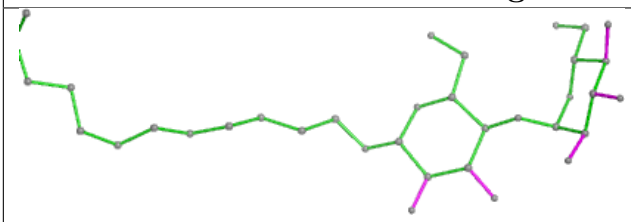
Ligand LMT AT 102



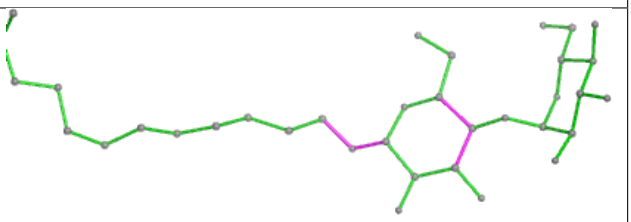
Ligand V7N AE 1005



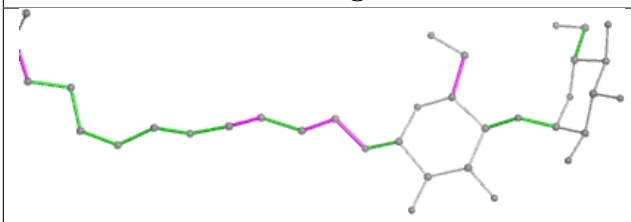
Ligand LMT BD 102



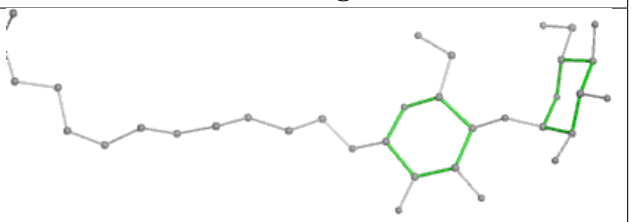
Bond lengths



Bond angles

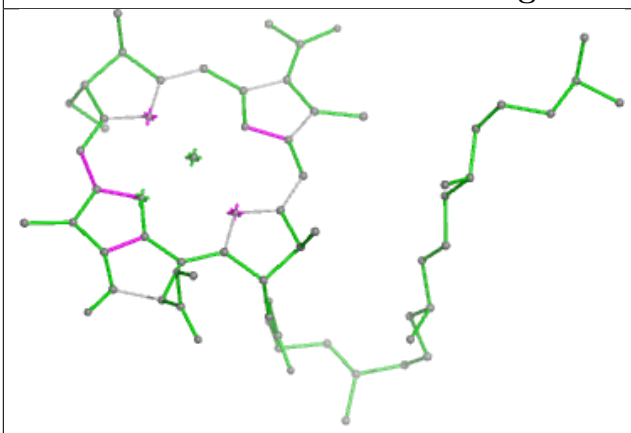


Torsions

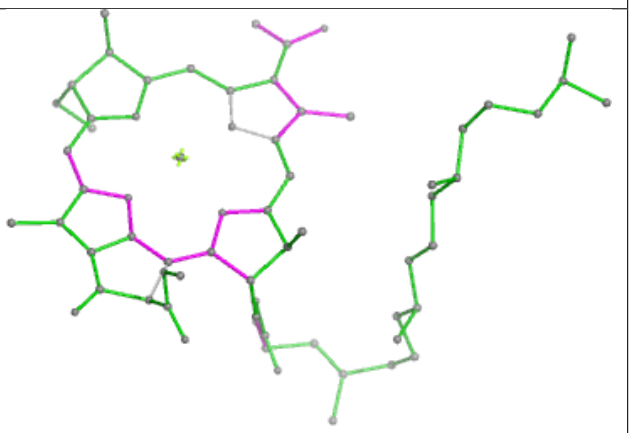


Rings

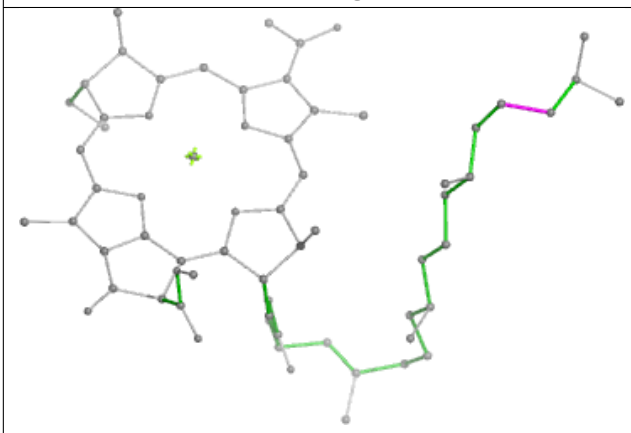
Ligand BCL L 1002



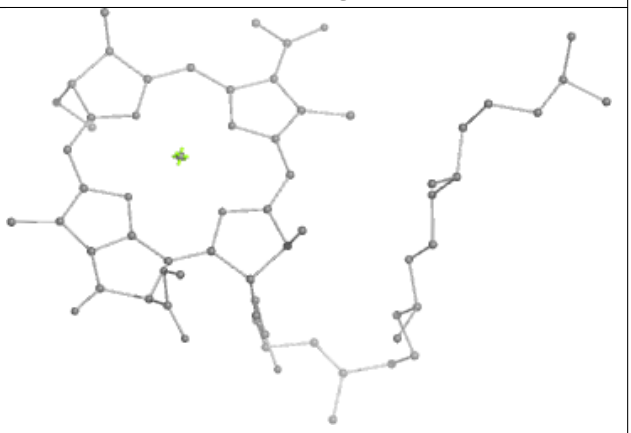
Bond lengths



Bond angles

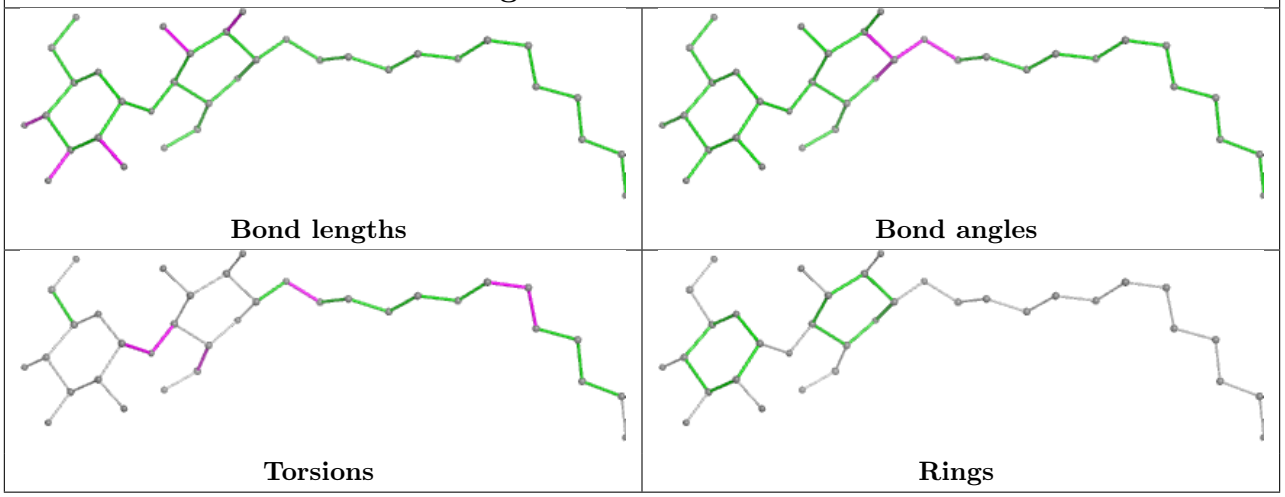


Torsions

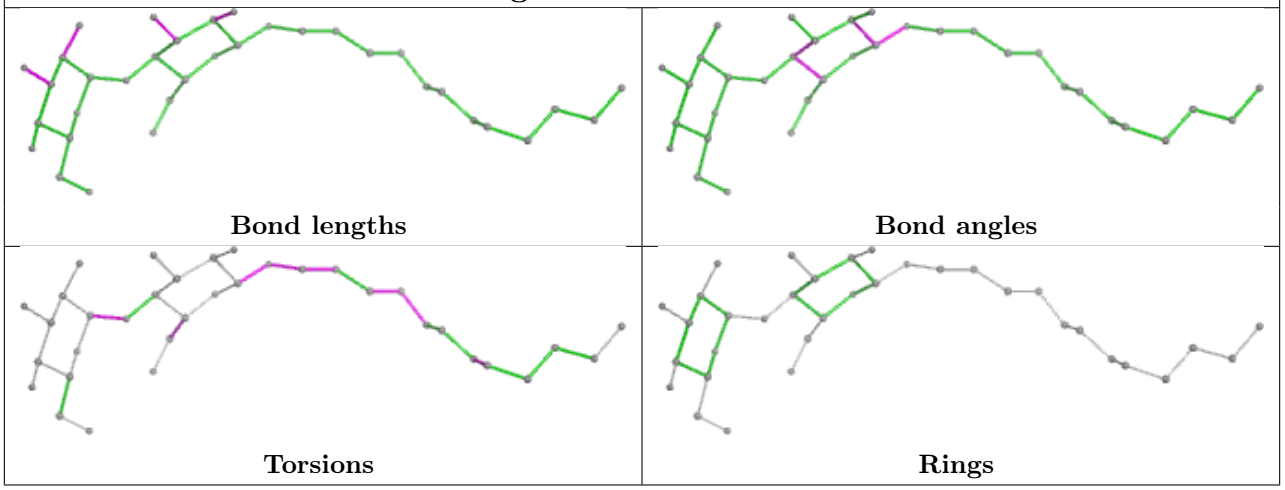


Rings

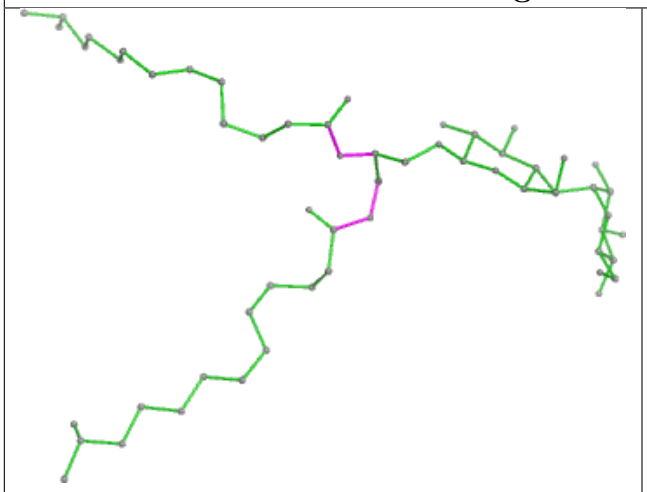
Ligand LMT BR 1003



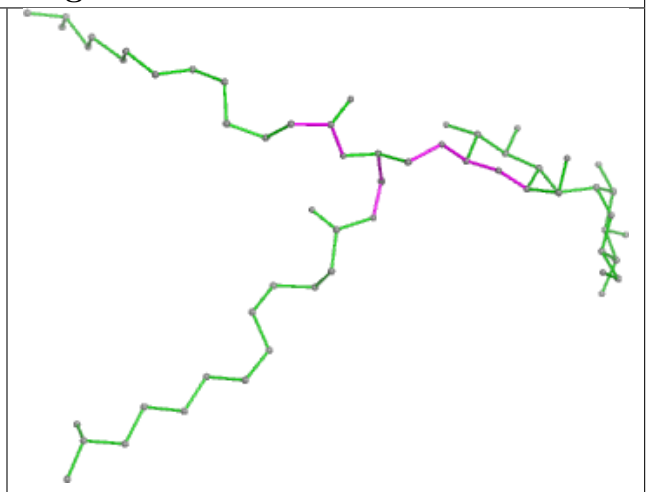
Ligand LMT bm 105



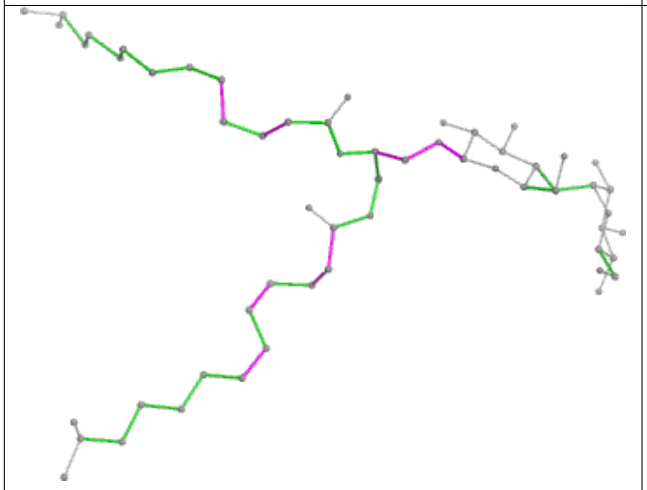
Ligand V7B ag 1002



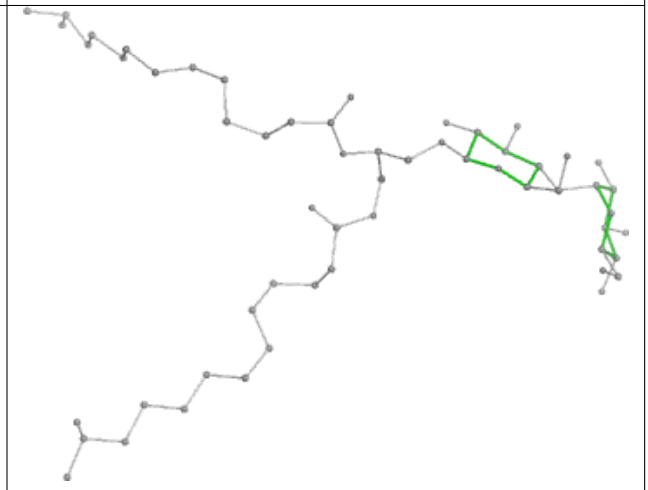
Bond lengths



Bond angles

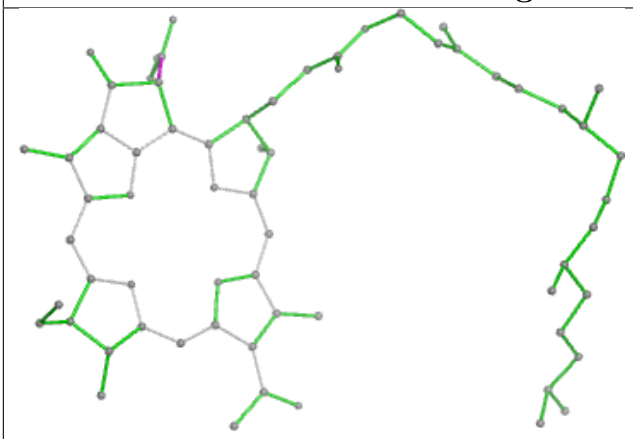


Torsions

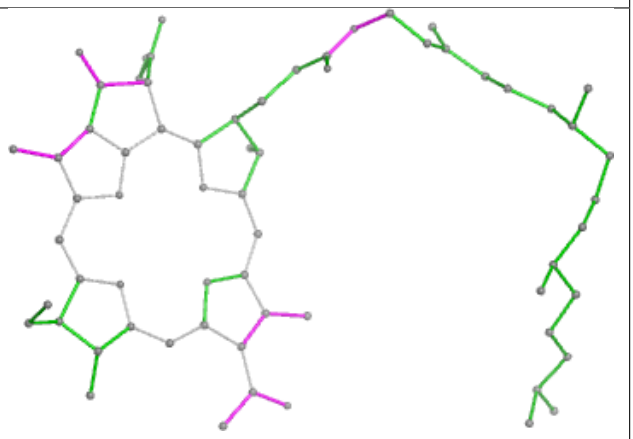


Rings

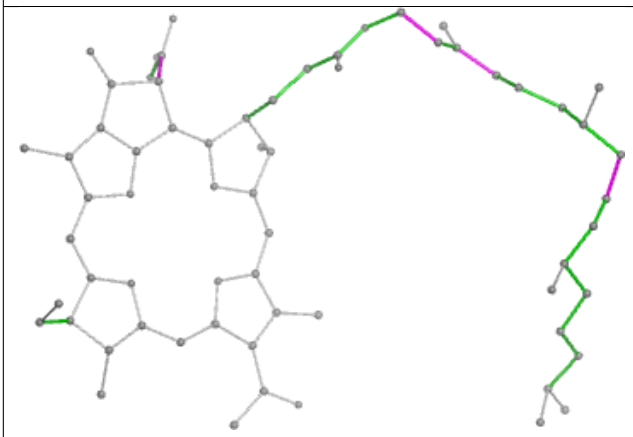
Ligand BPH L 1009



Bond lengths



Bond angles



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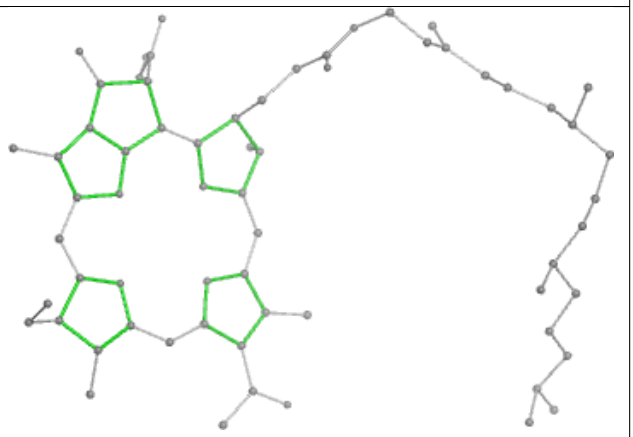
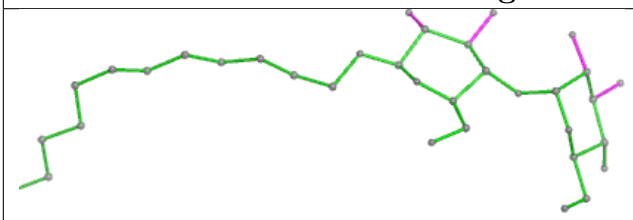
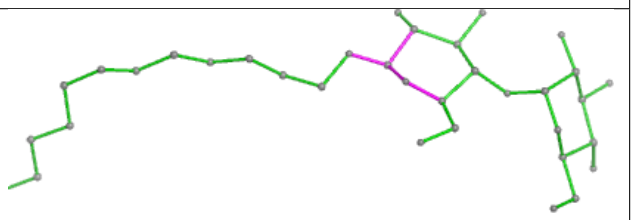


Rings

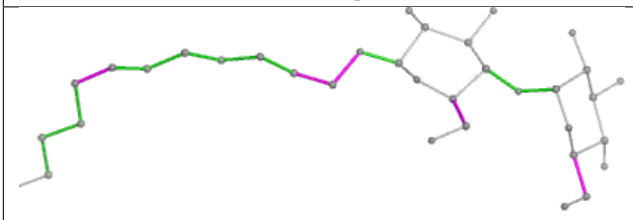
Ligand LMT BK 1004



Bond lengths



Bond angles



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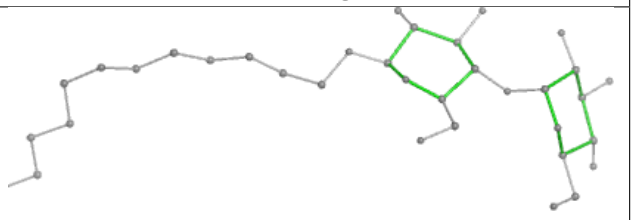
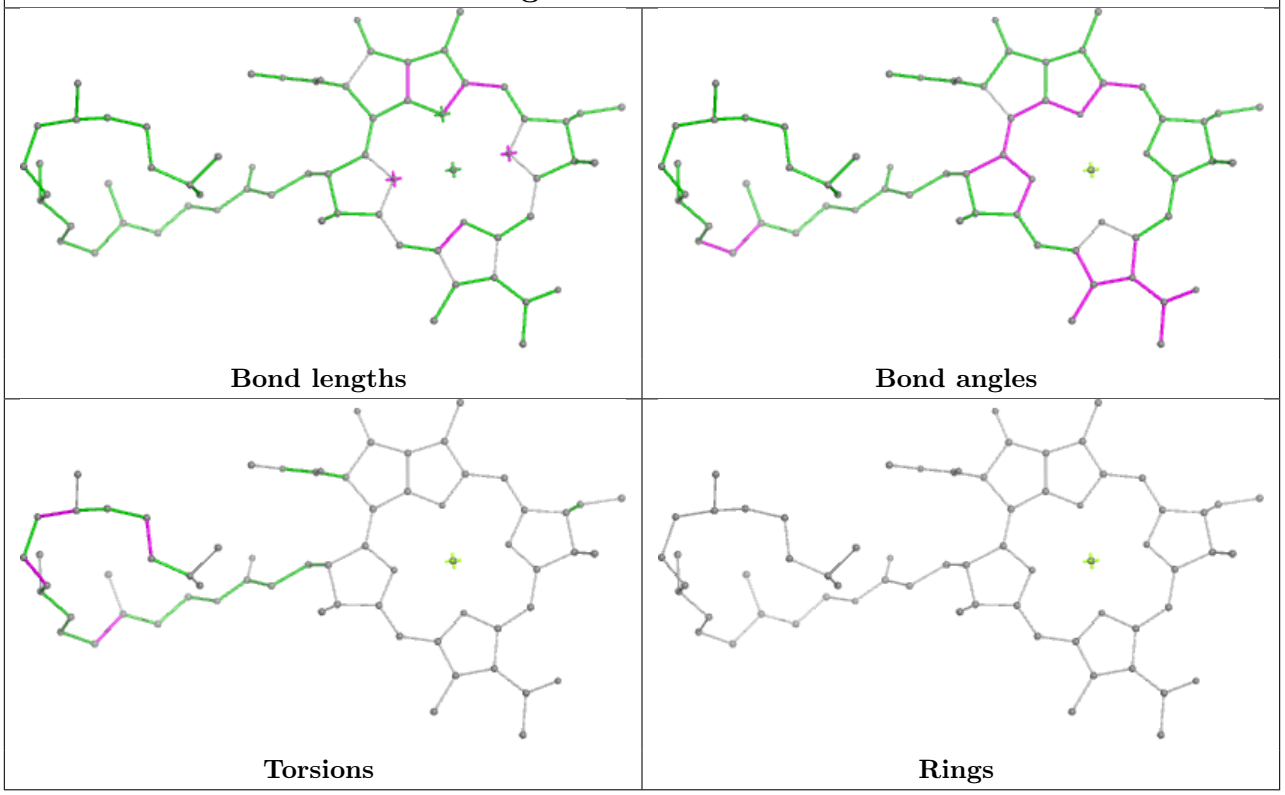
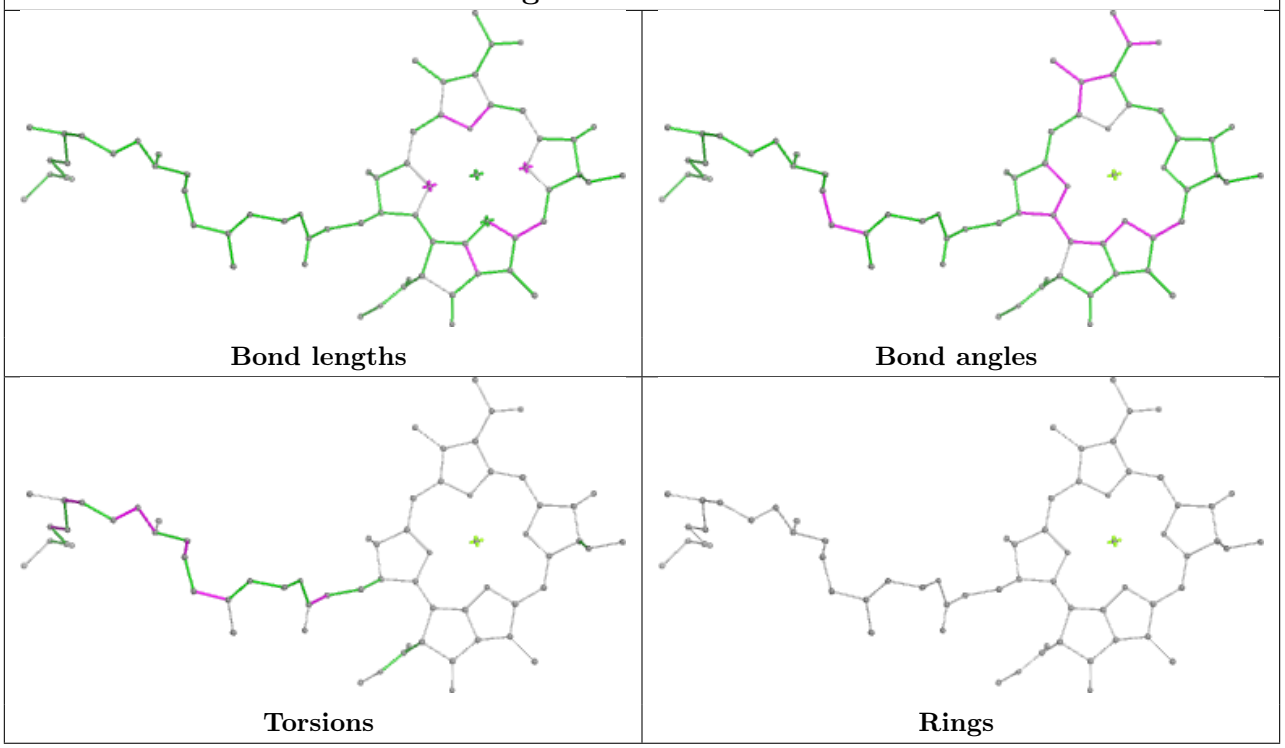


Rings

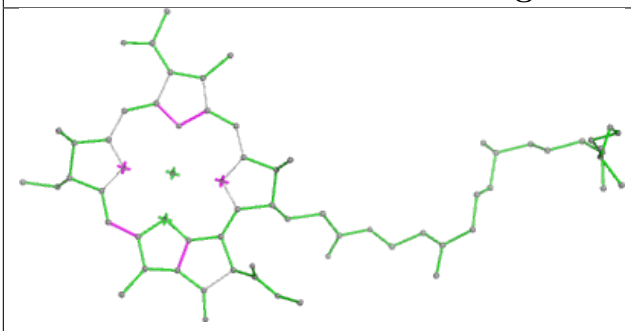
Ligand BCL ao 102



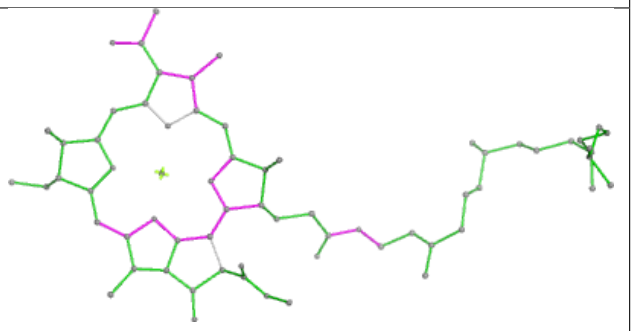
Ligand BCL ae 102



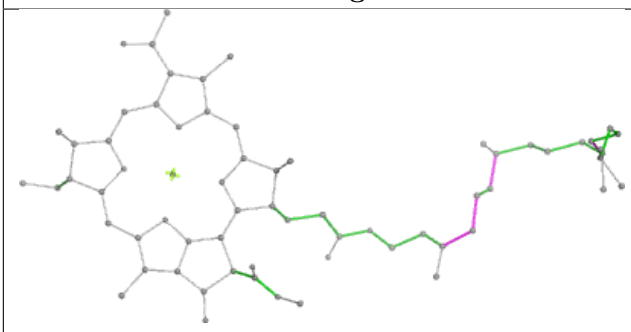
Ligand BCL al 1001



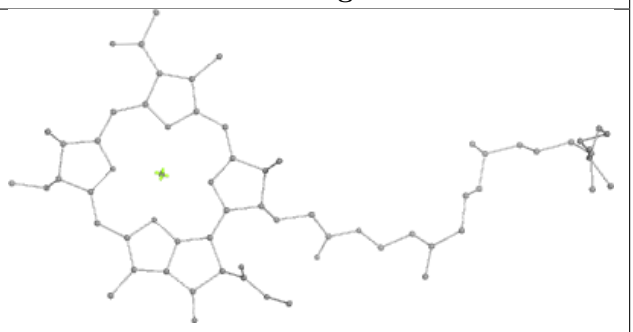
Bond lengths



Bond angles

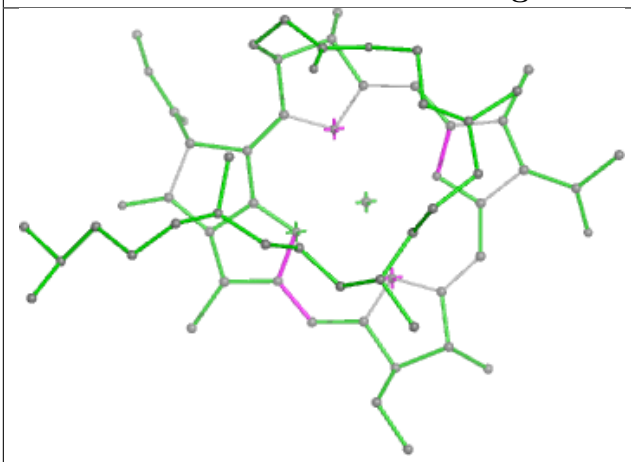


Torsions

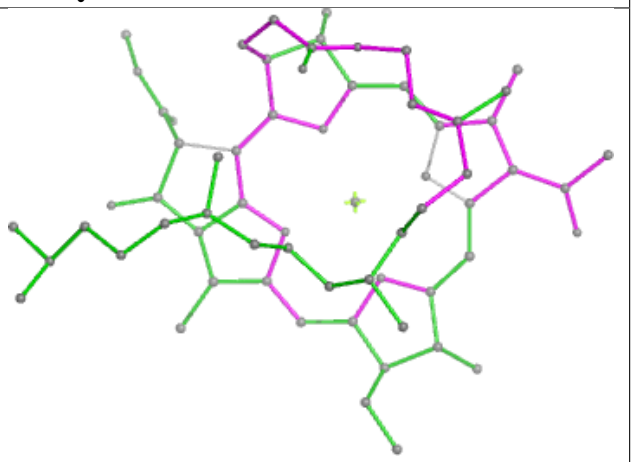


Rings

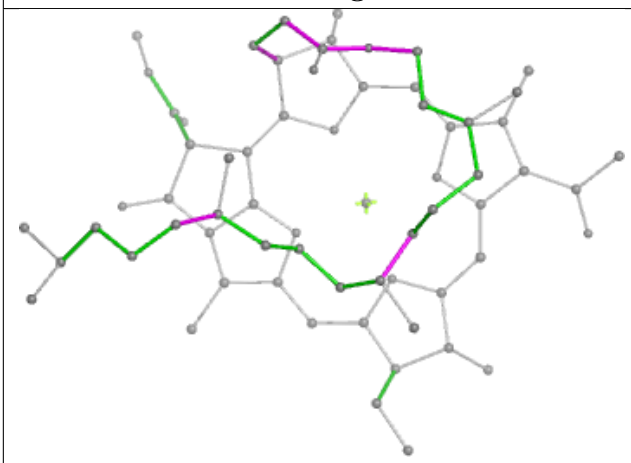
Ligand BCL AQ 101



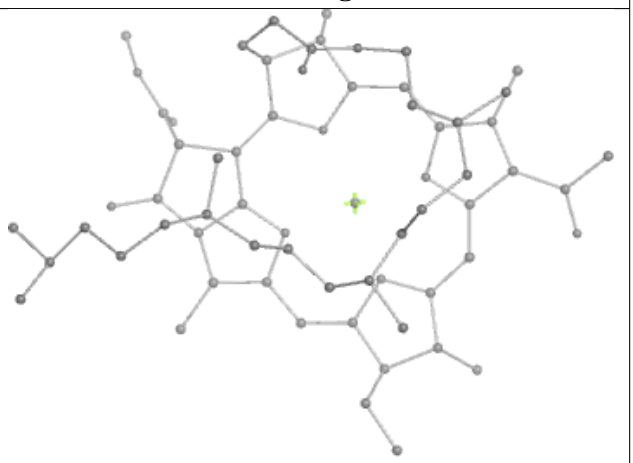
Bond lengths



Bond angles

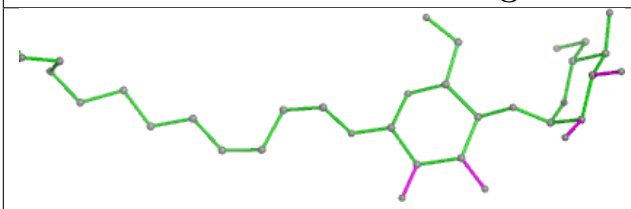


Torsions

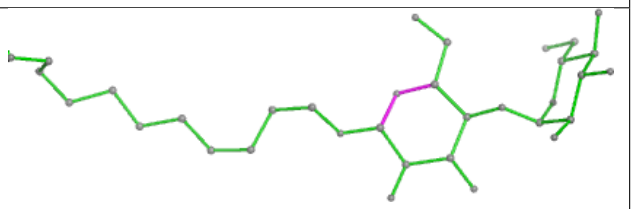


Rings

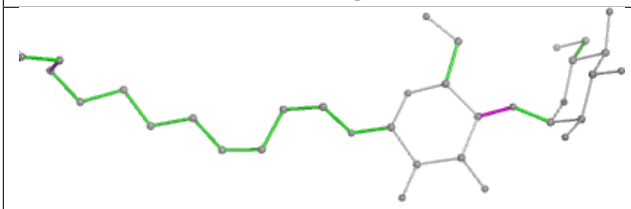
Ligand LMT BP 1003



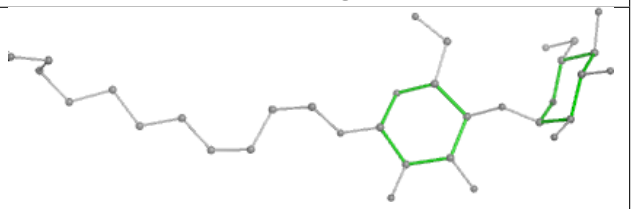
Bond lengths



Bond angles

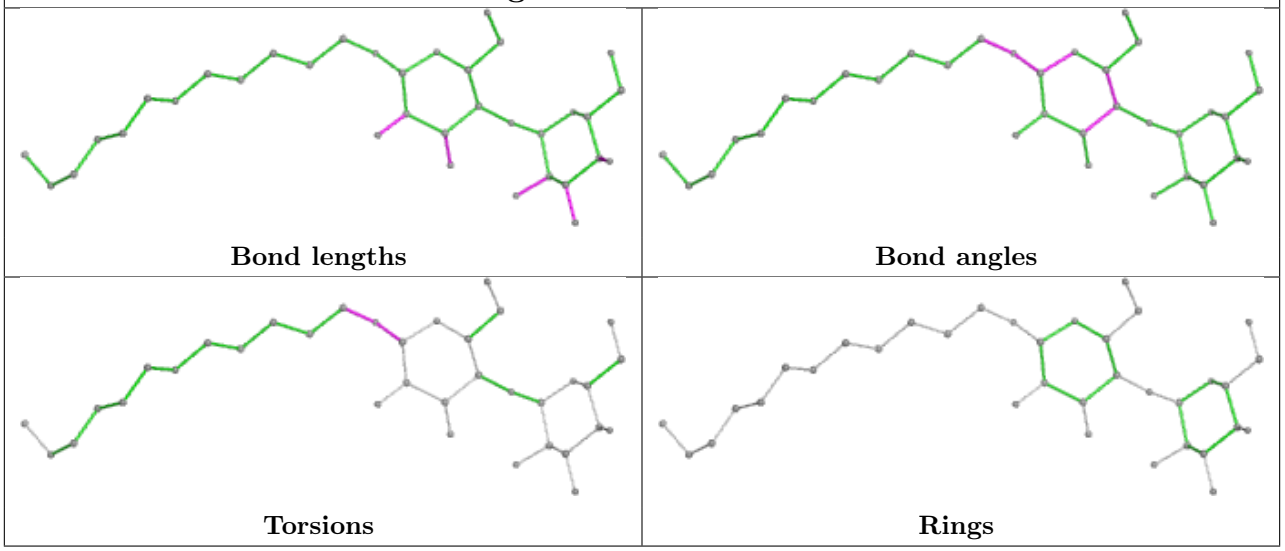


Torsions

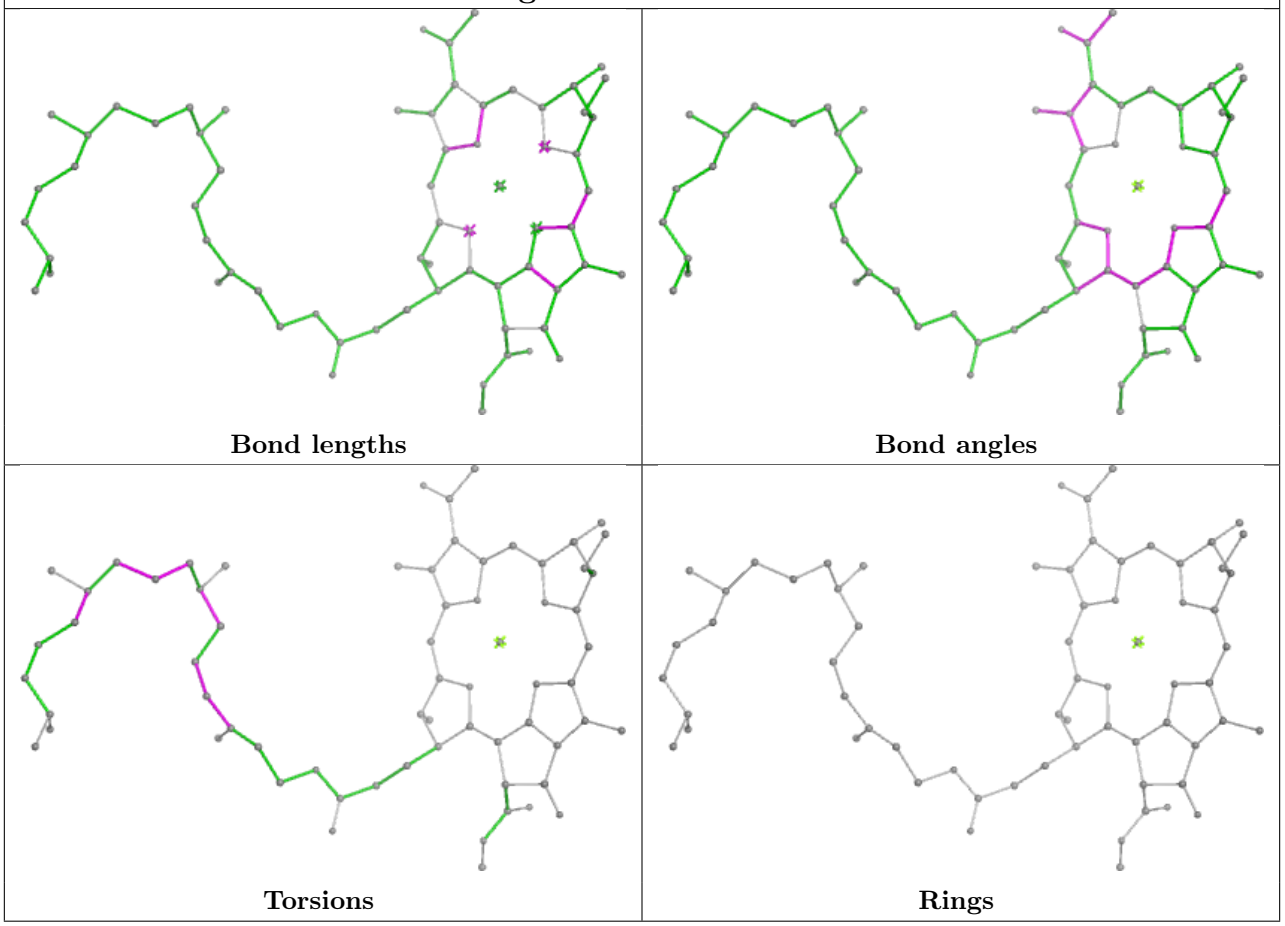


Rings

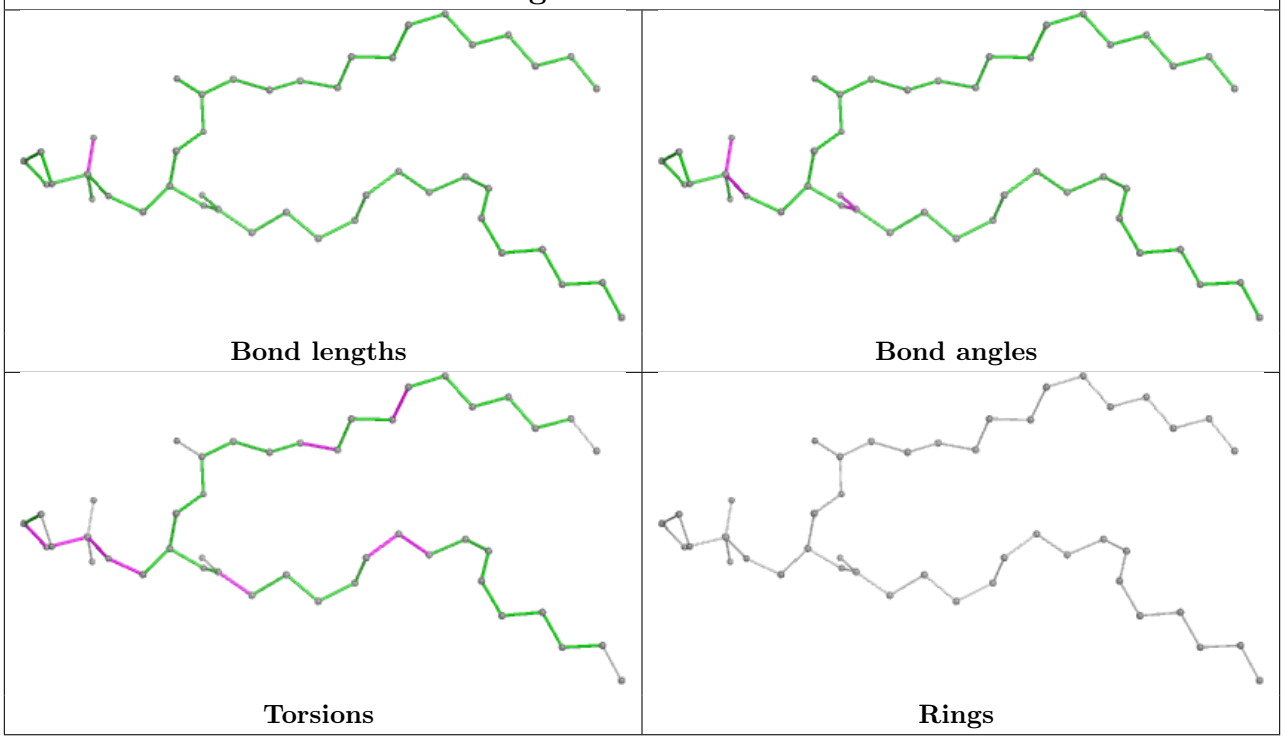
Ligand LMT AH 102



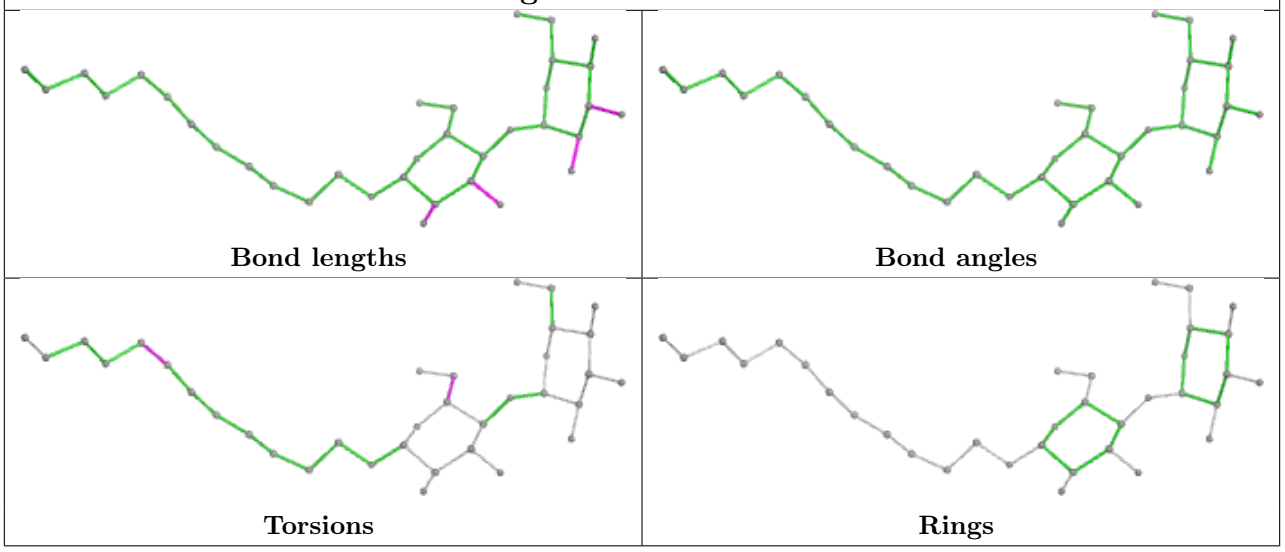
Ligand BCL AI 102



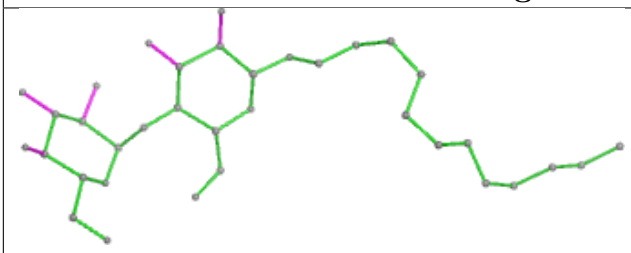
Ligand 0V9 bi 103



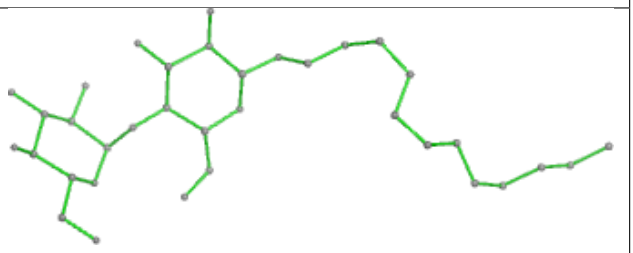
Ligand LMT bi 102



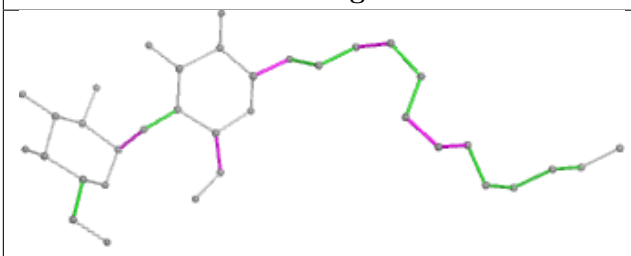
Ligand LMT bn 101



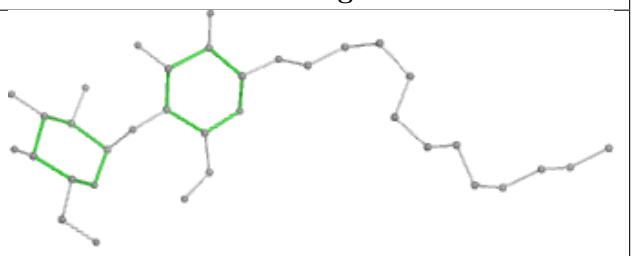
Bond lengths



Bond angles

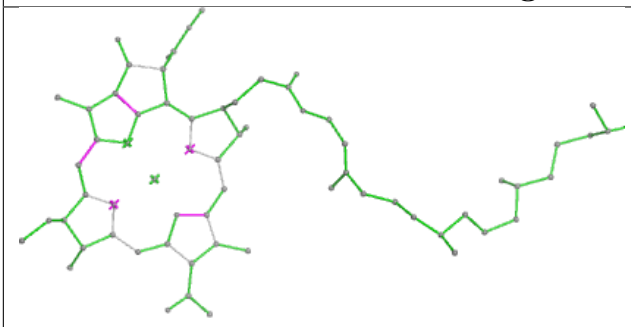


Torsions



Rings

Ligand BCL ba 103



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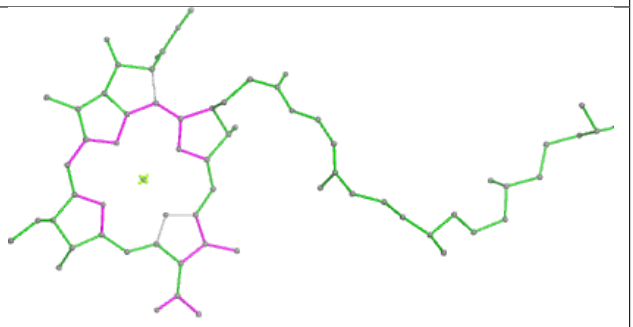
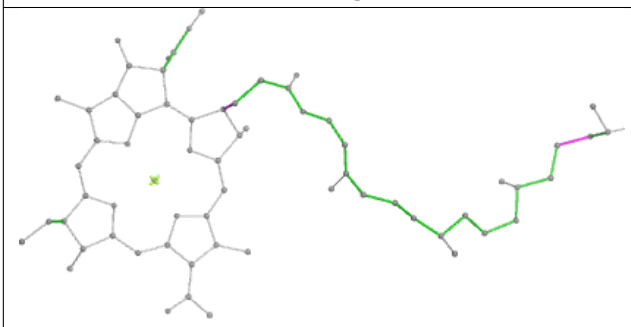


Bond angles



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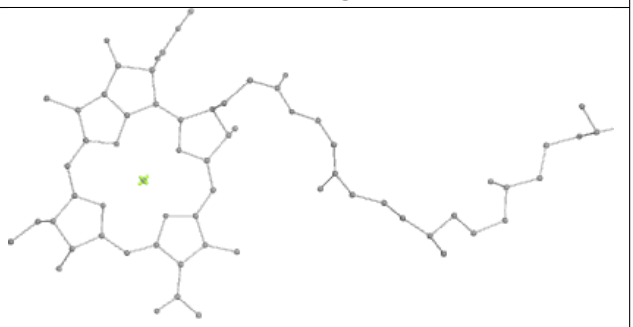
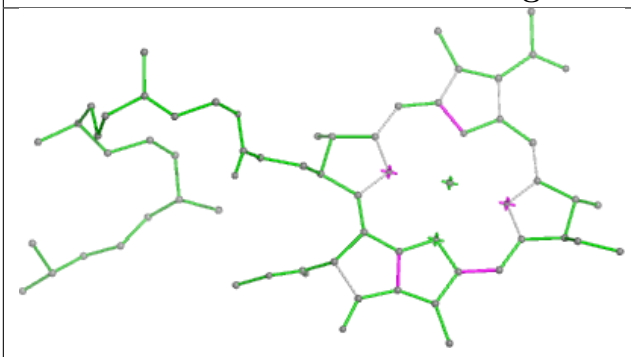


Rings

Ligand BCL aj 103



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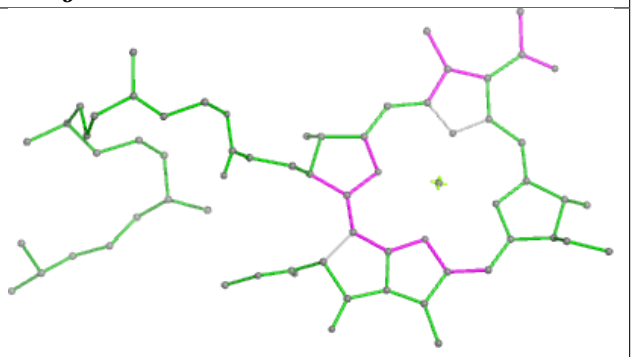
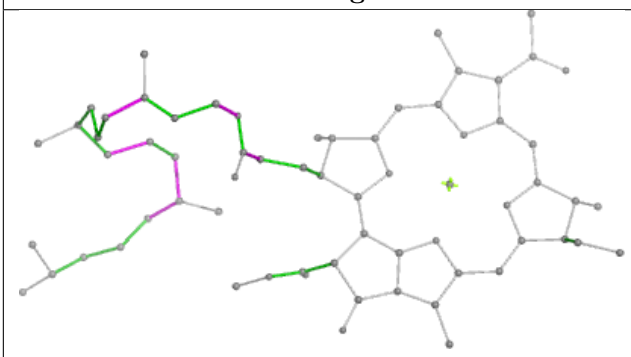


Bond angles



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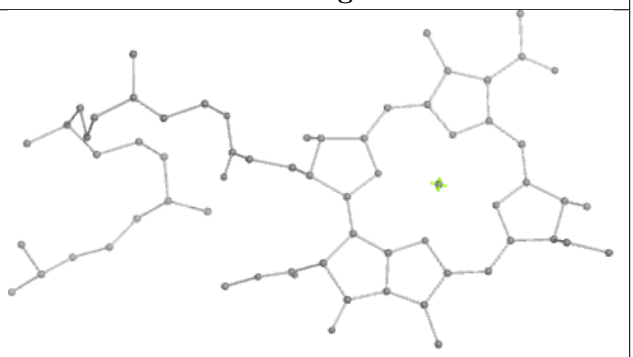
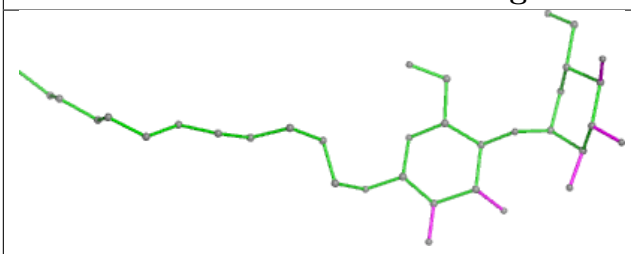
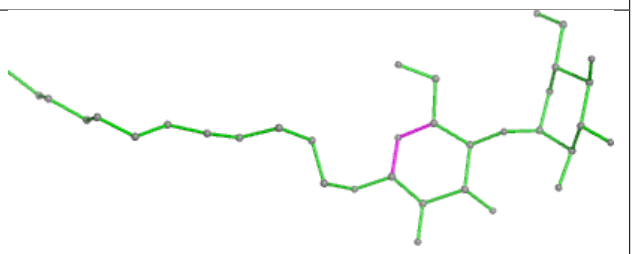


Rings

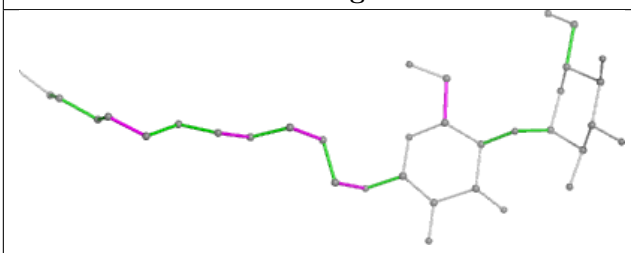
Ligand LMT BE 103



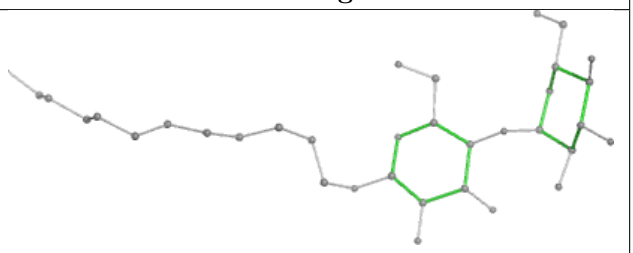
Bond lengths



Bond angles

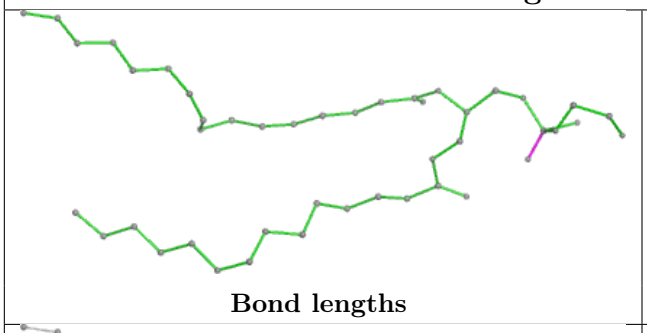


Torsions

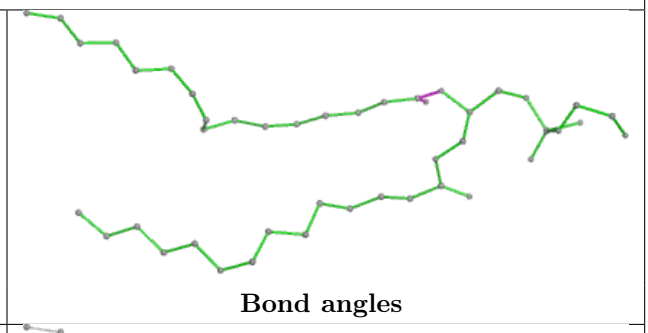


Rings

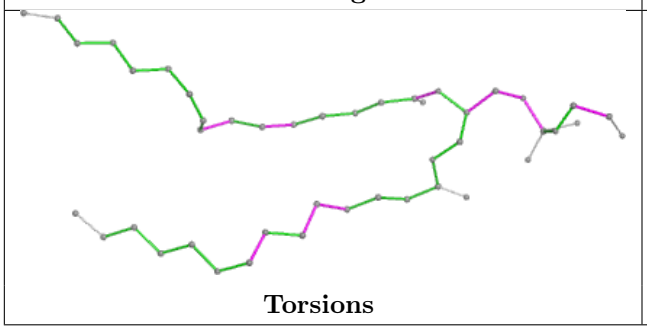
Ligand 0V9 bb 103



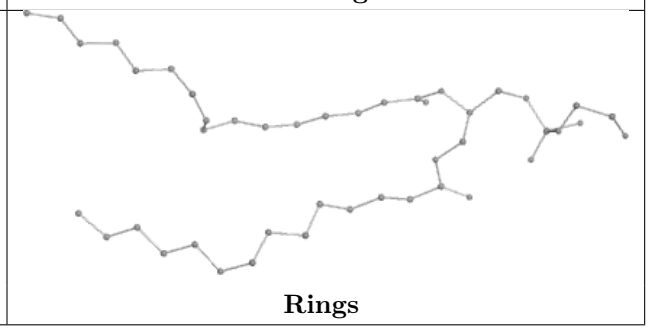
Bond lengths



Bond angles

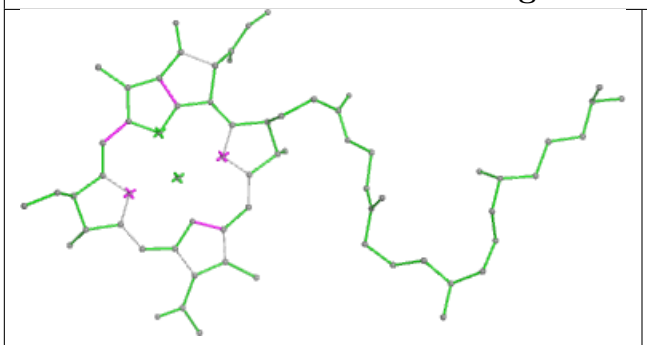


Torsions

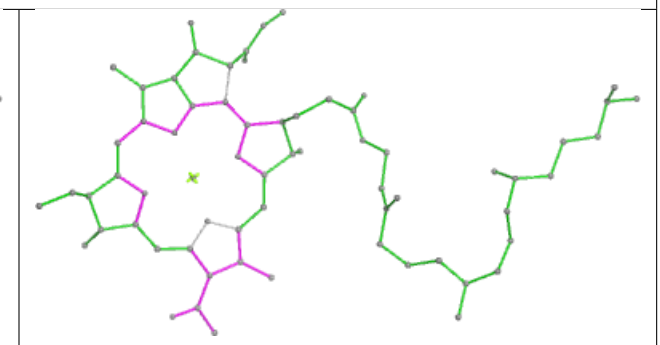


Rings

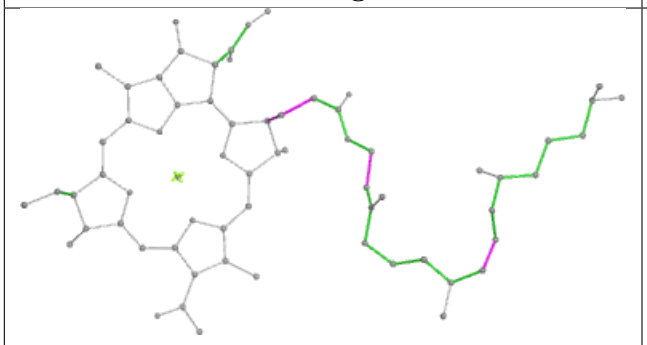
Ligand BCL bd 102



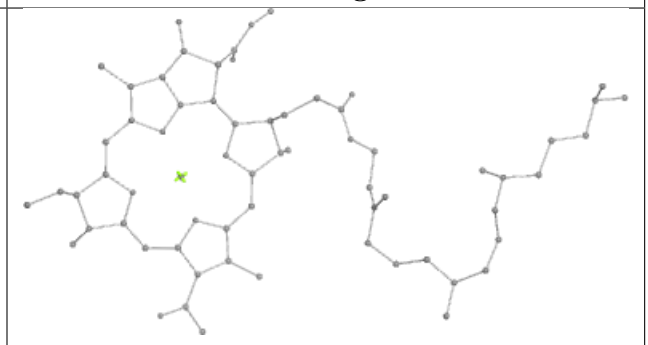
Bond lengths



Bond angles

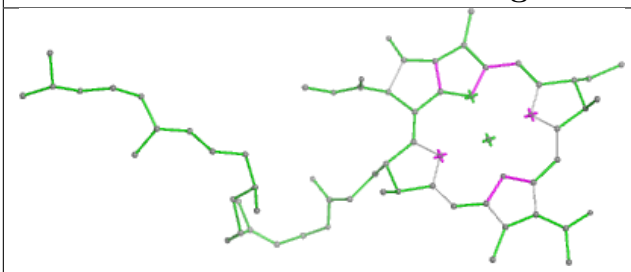


Torsions



Rings

Ligand BCL ap 1001



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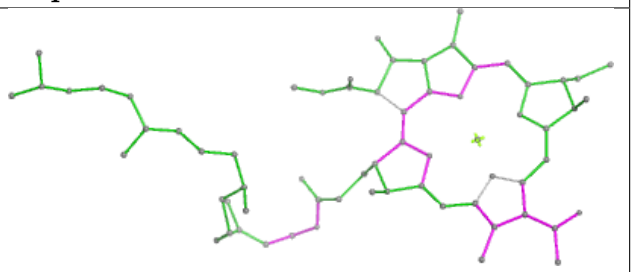

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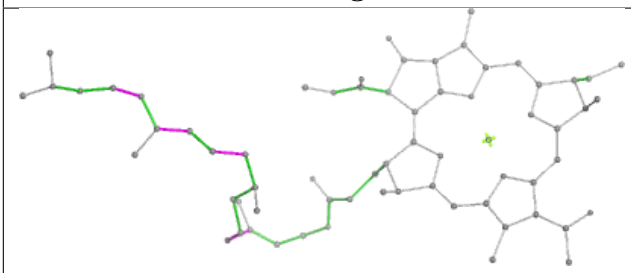

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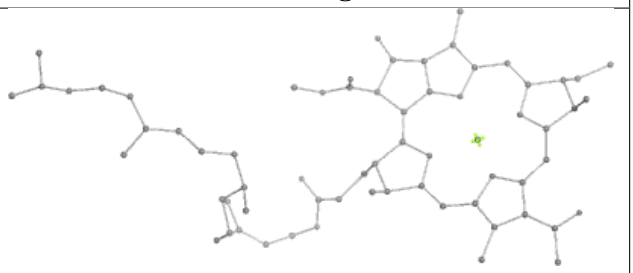
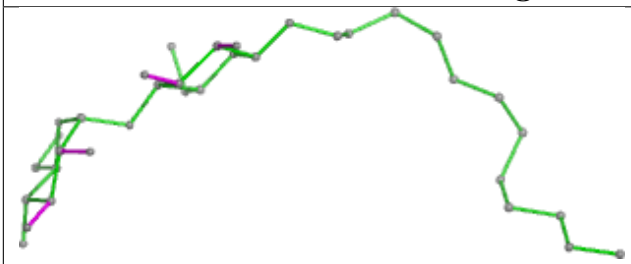


Rings

Ligand LMT L 1004



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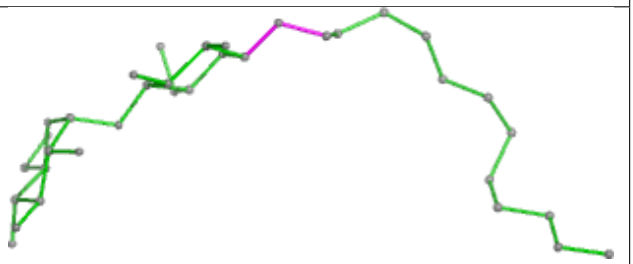

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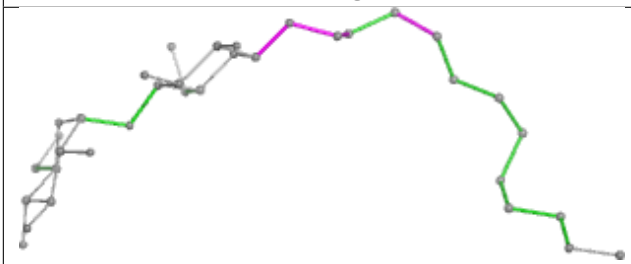

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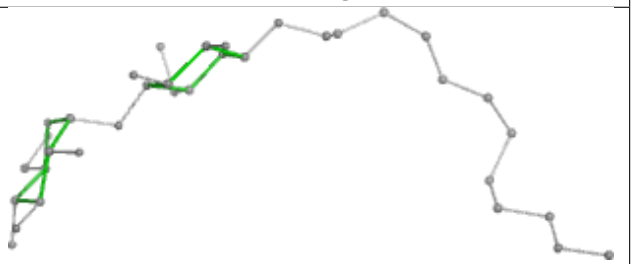
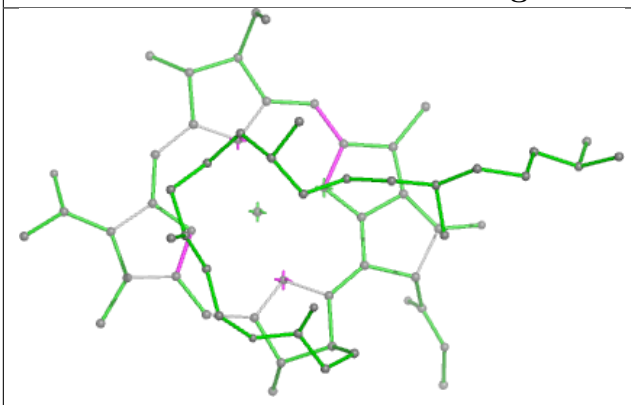


Rings

Ligand BCL AH 101



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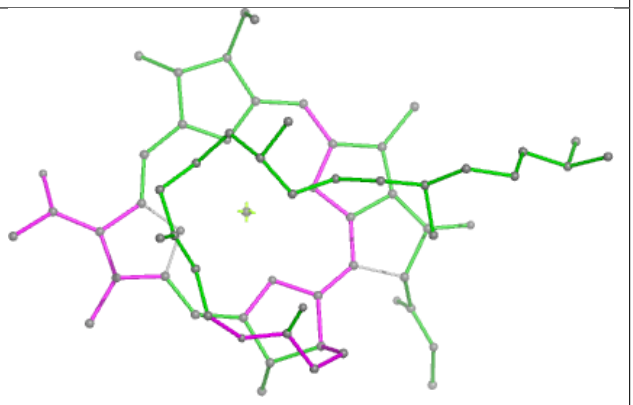

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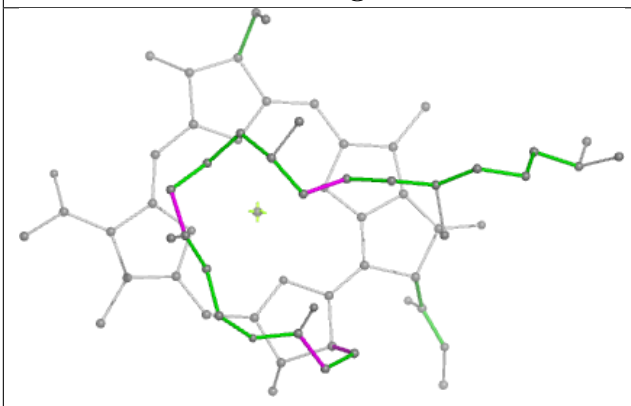

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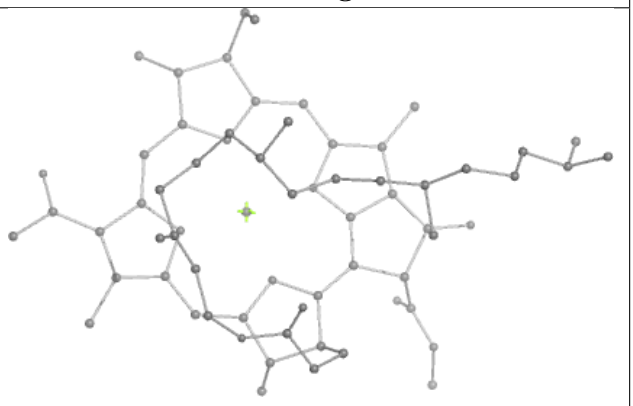
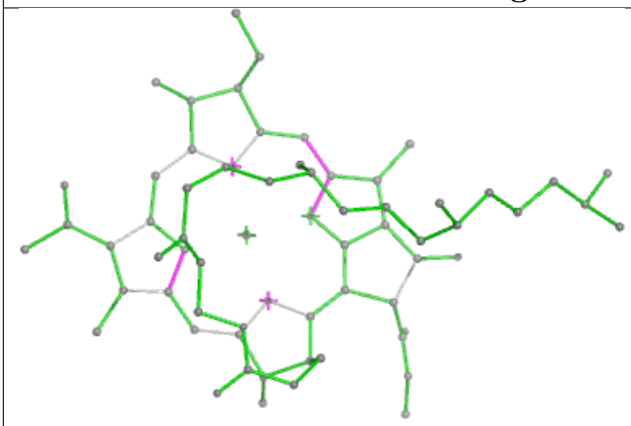


Rings

Ligand BCL AN 104



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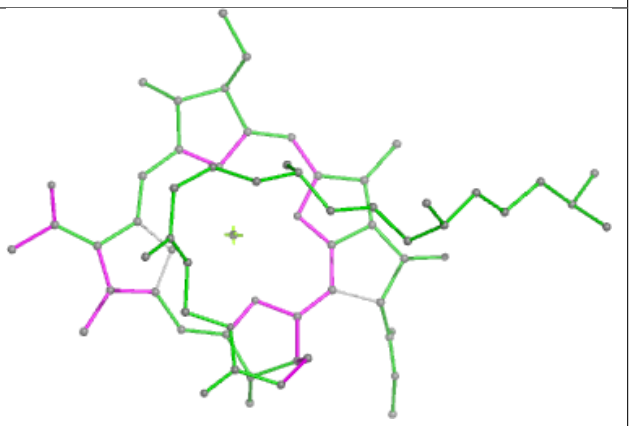

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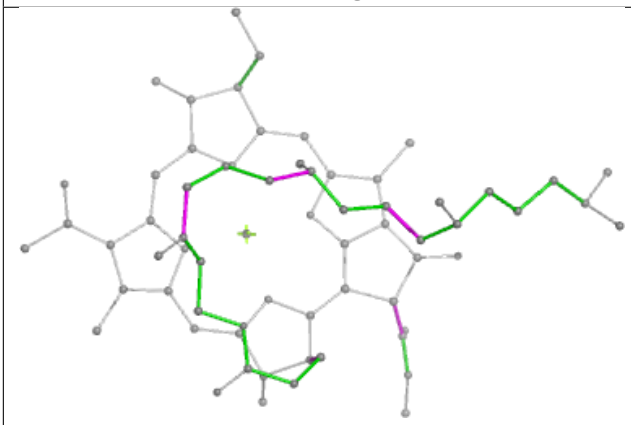

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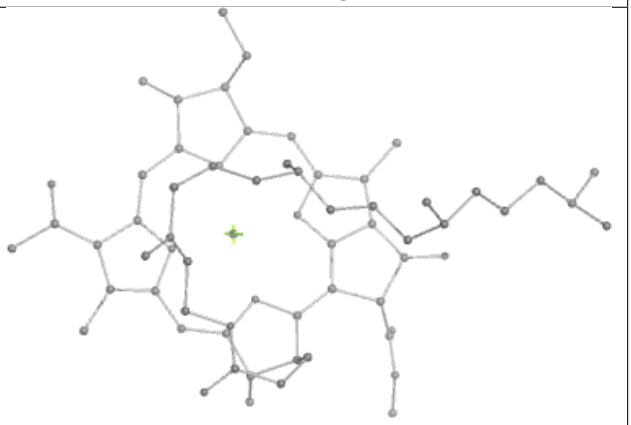
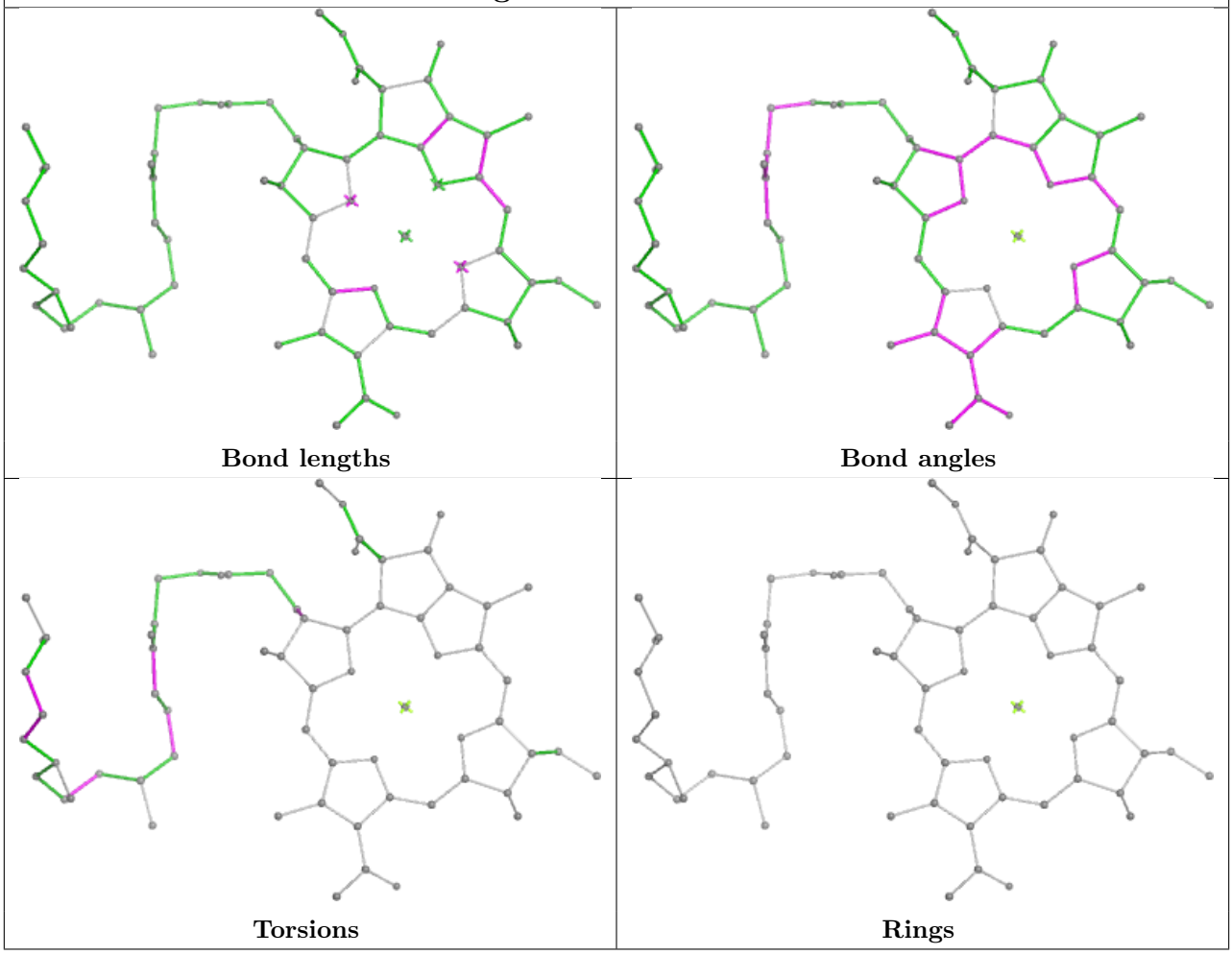
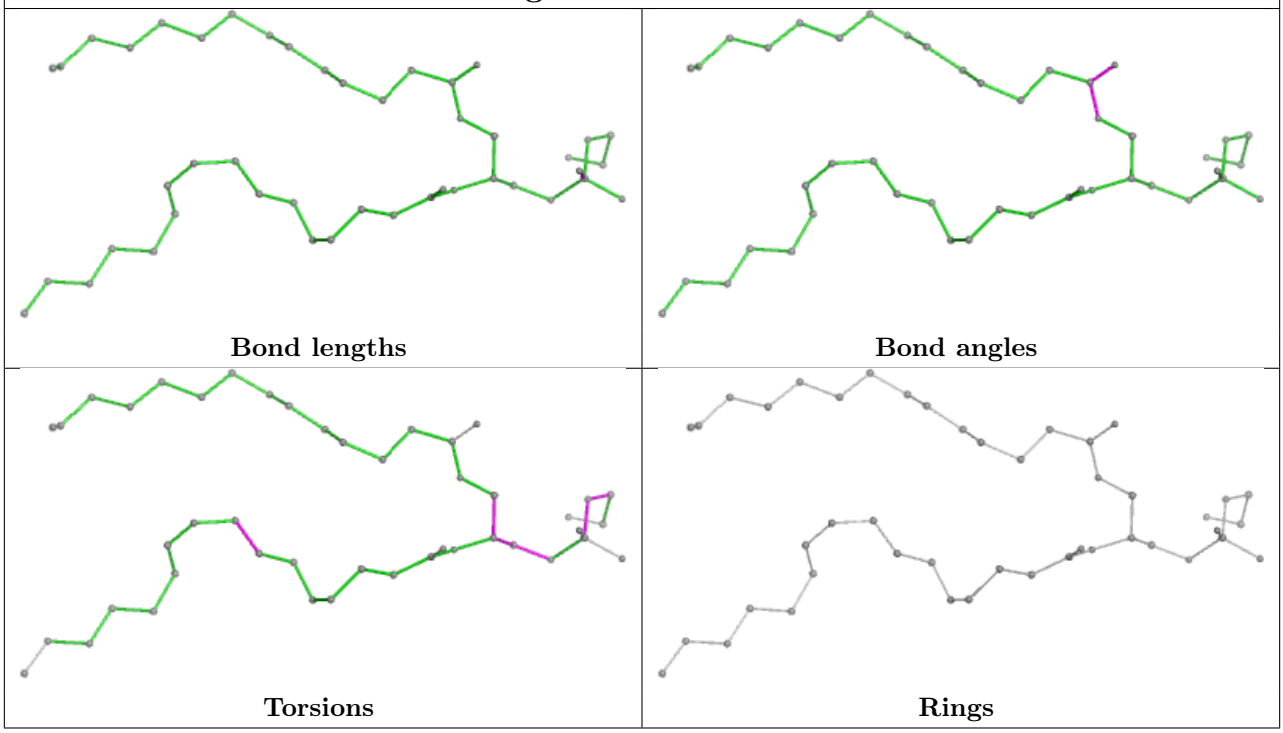


Rings

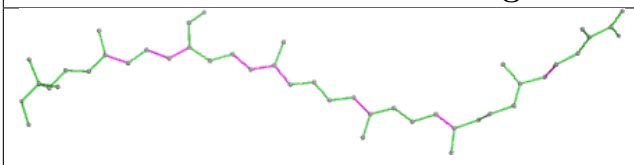
Ligand BCL bm 104



Ligand 0V9 ba 102



Ligand V7N BQ 1001



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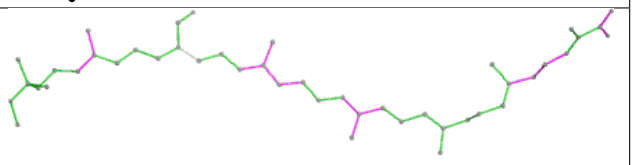

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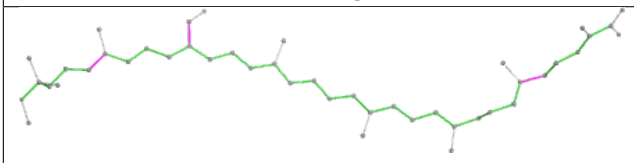

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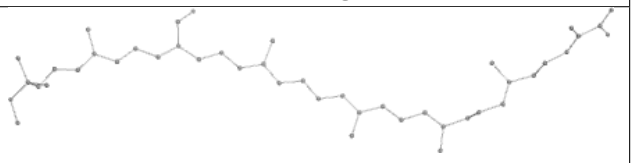
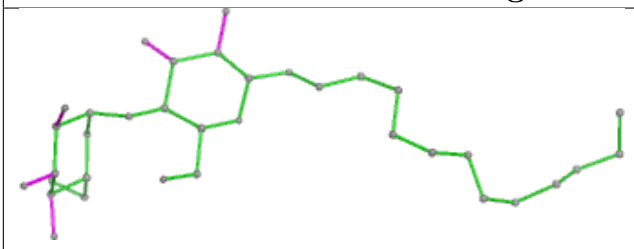


Rings

Ligand LMT AD 101



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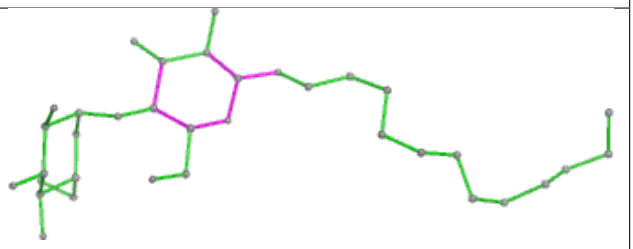

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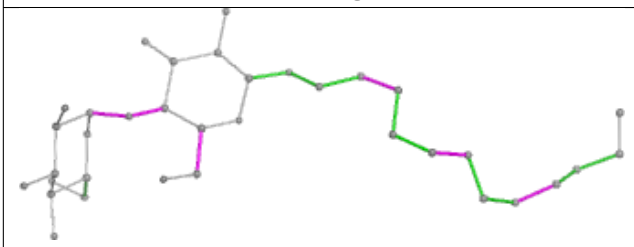

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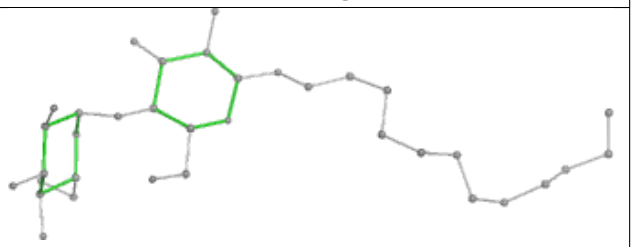
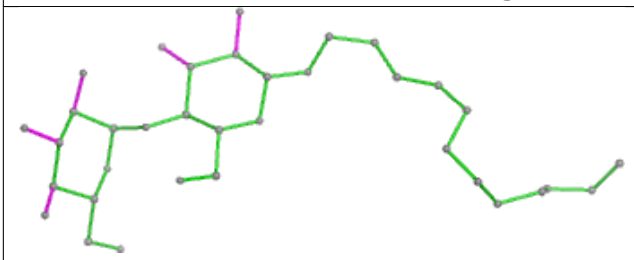


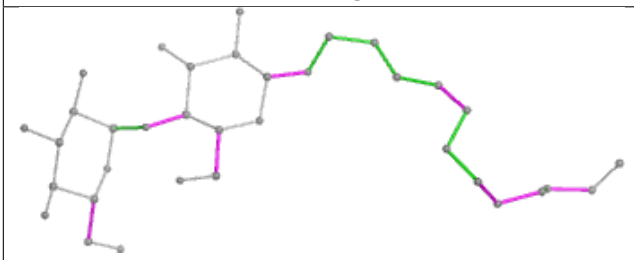
Rings

Ligand LMT AA 1003



Bond lengths

Bond angles



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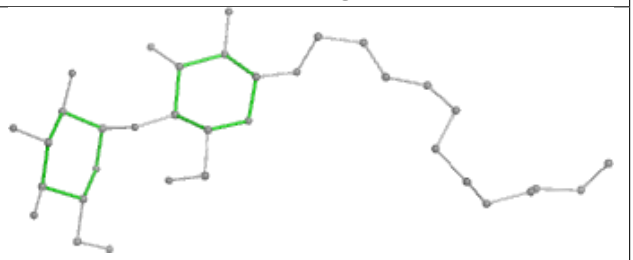
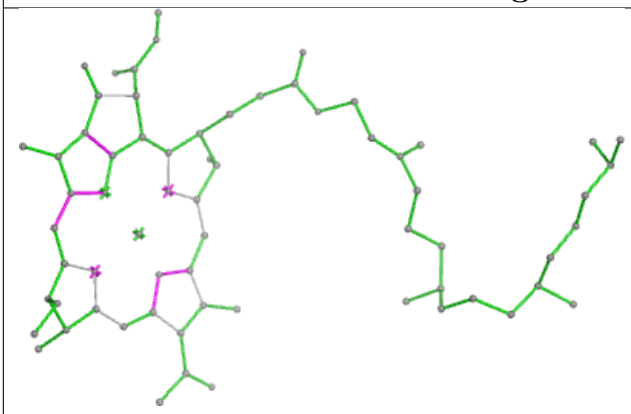


Rings

Ligand BCL AU 102



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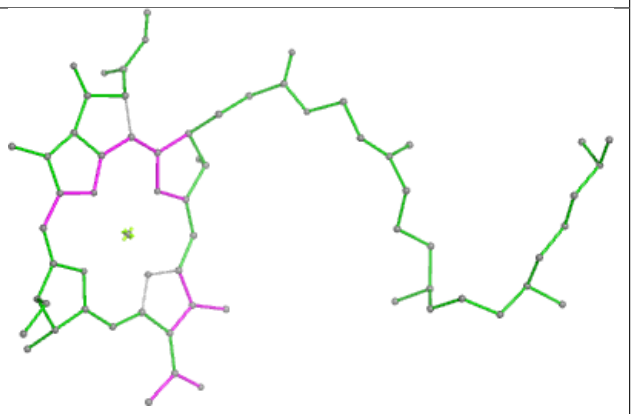

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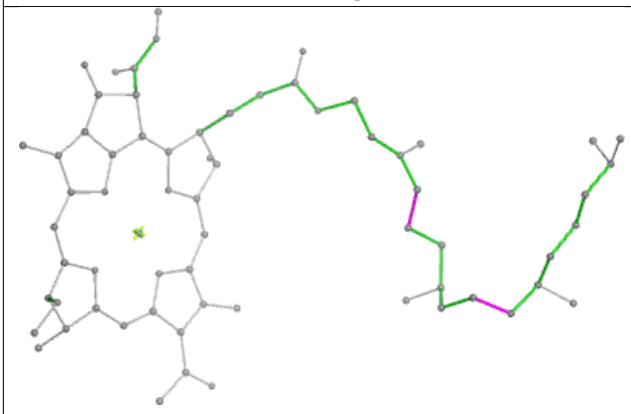

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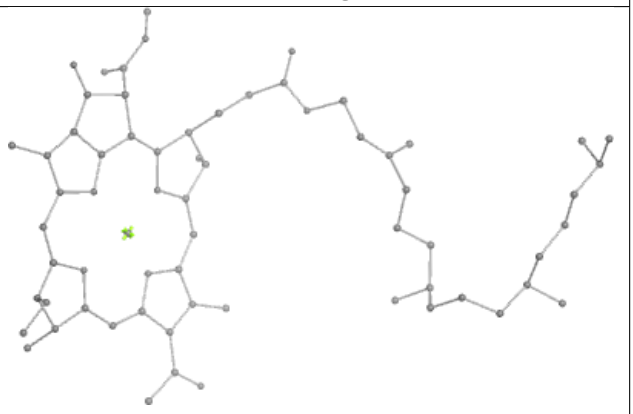
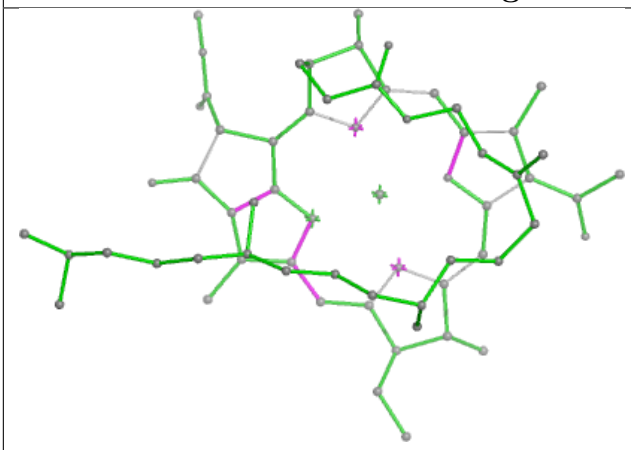


Rings

Ligand BCL AA 1002



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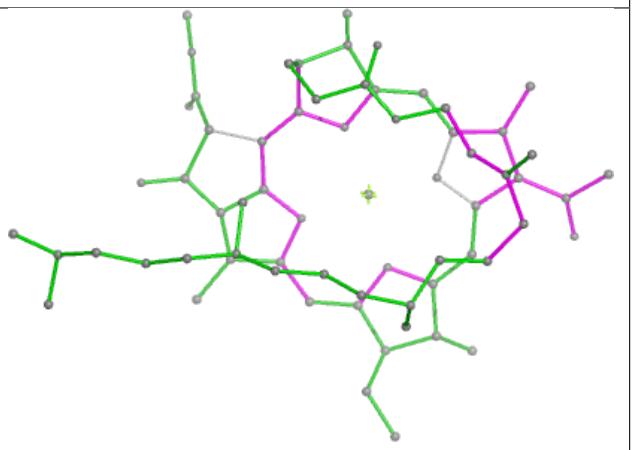

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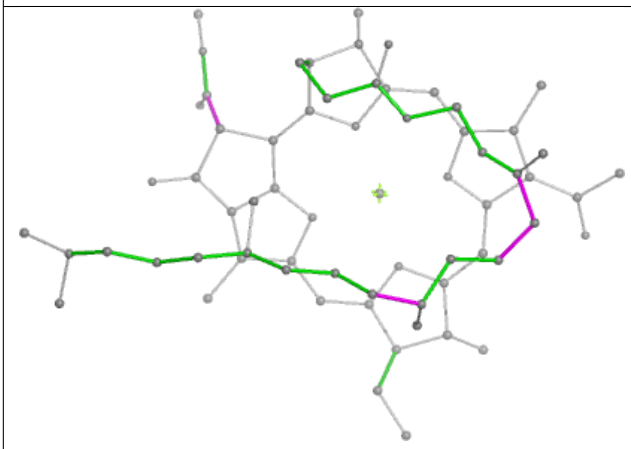

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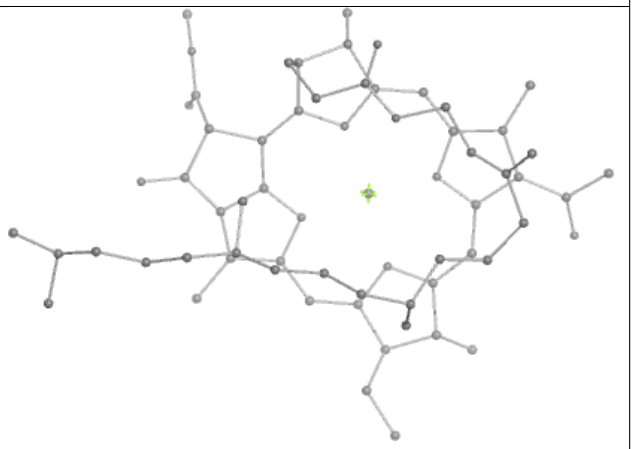
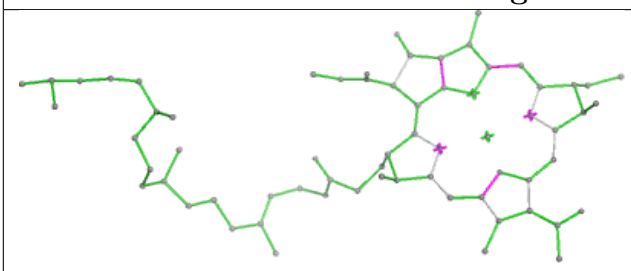


Rings

Ligand BCL an 1001



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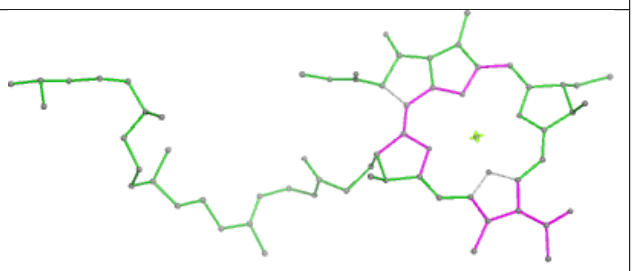

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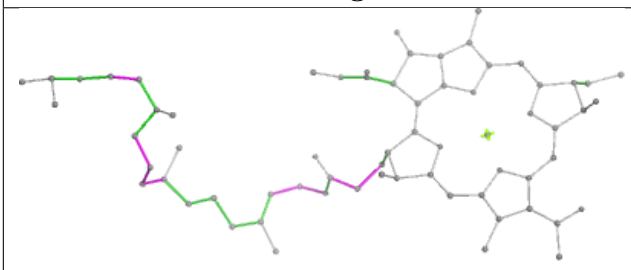

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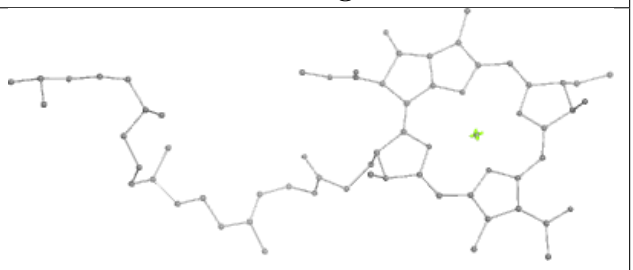
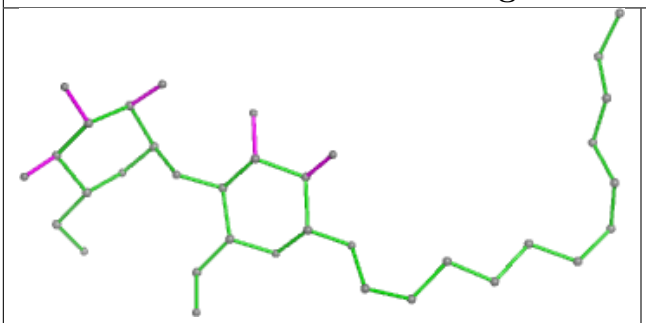
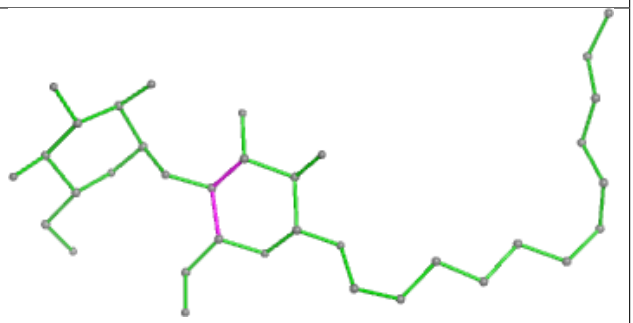


Rings

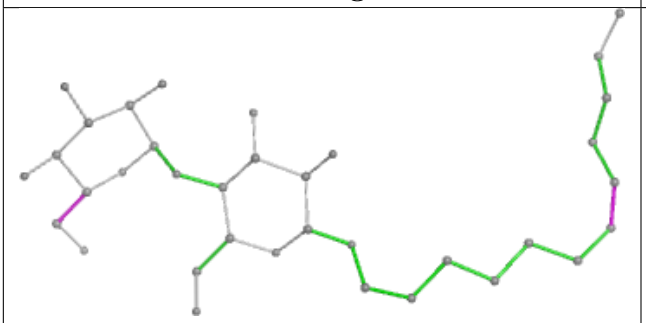
Ligand LMT BU 1003



Bond lengths



Bond angles



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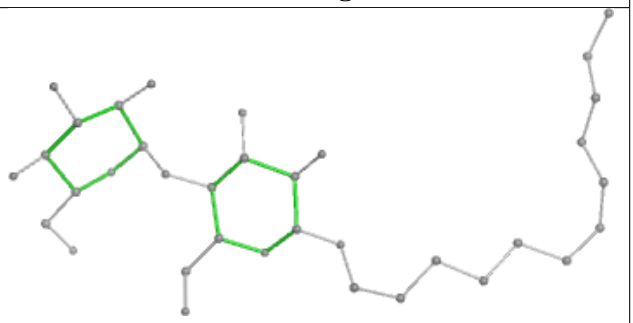
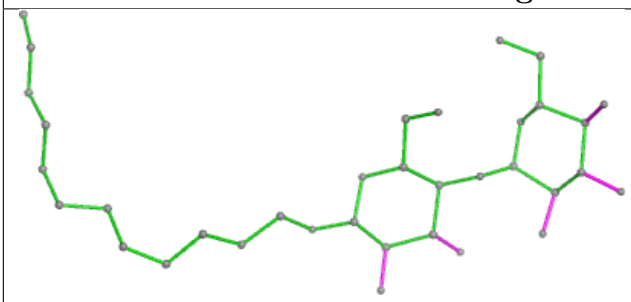


Rings

Ligand LMT ab 101



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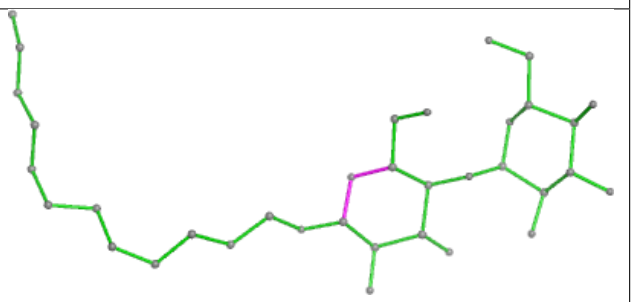
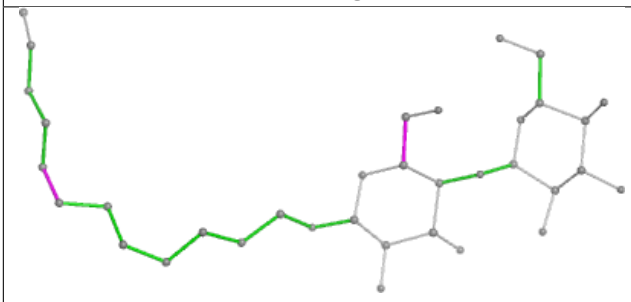


Bond angles



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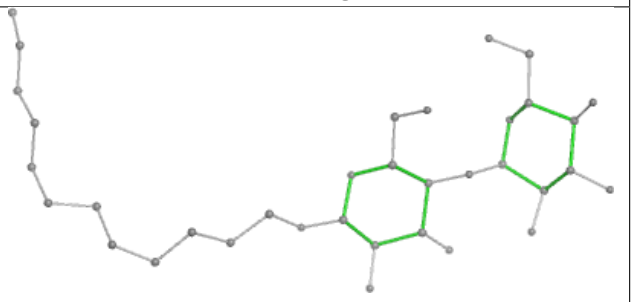
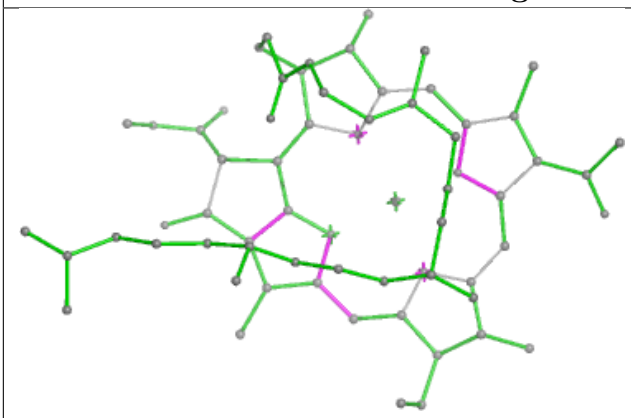
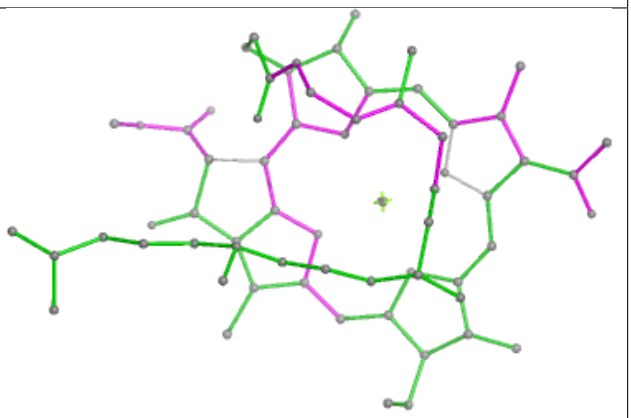


Rings

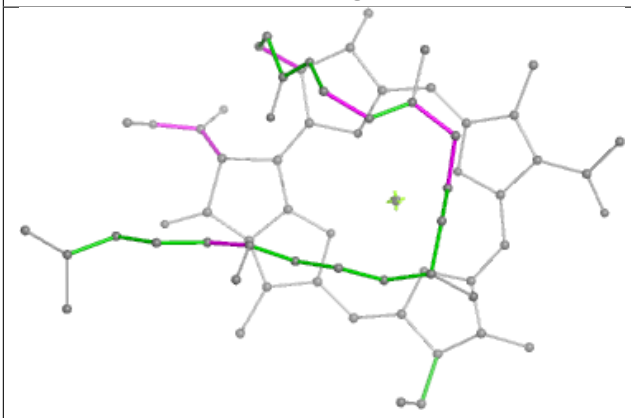
Ligand BCL AR 102



Bond lengths



Bond angles



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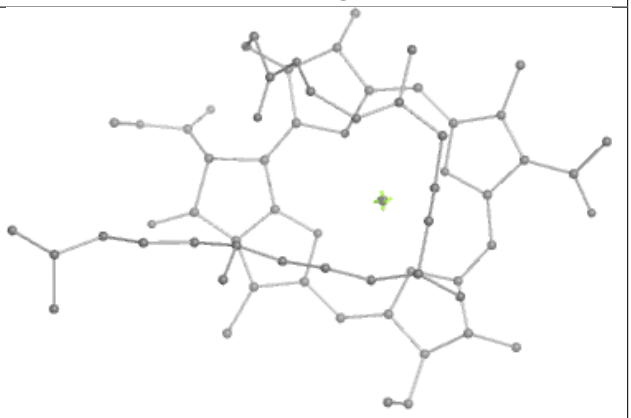
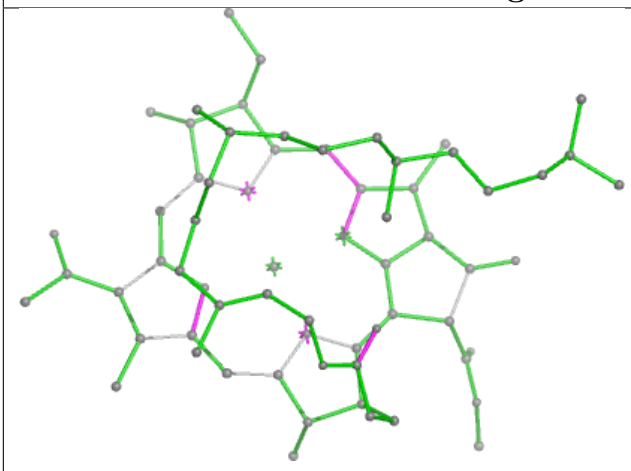
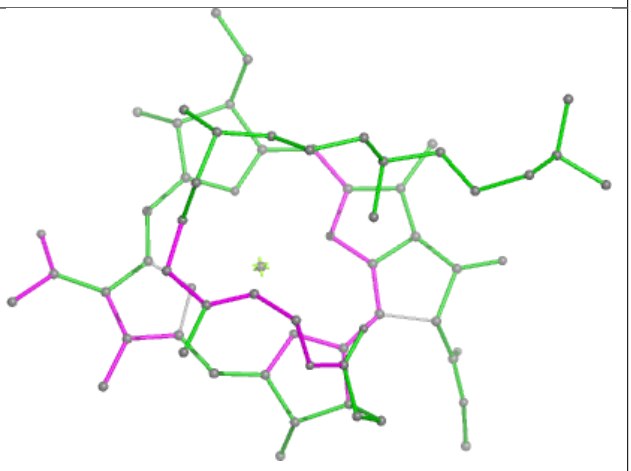


Rings

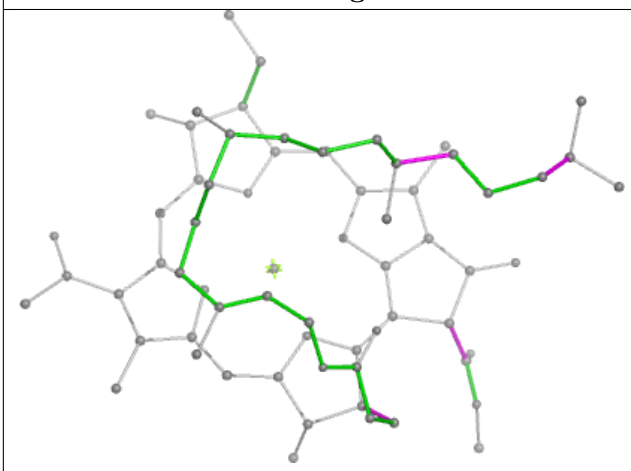
Ligand BCL AM 102



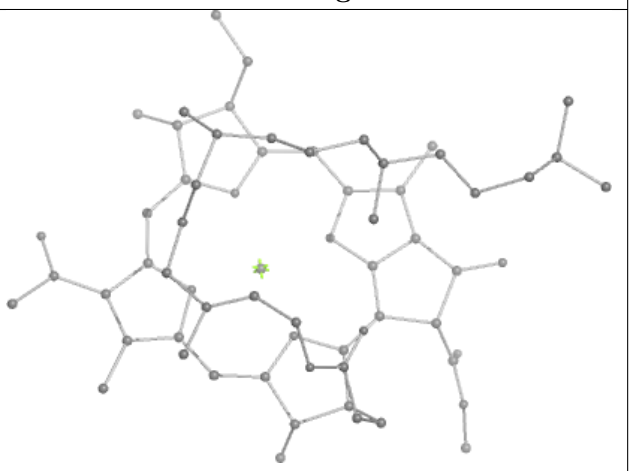
Bond lengths



Bond angles

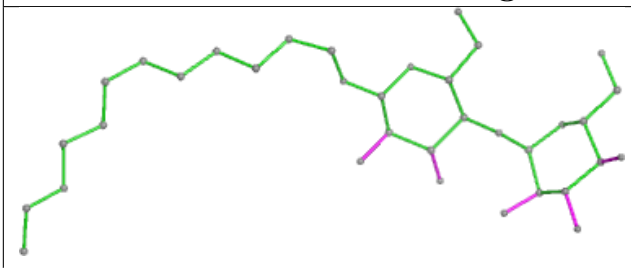


Torsions

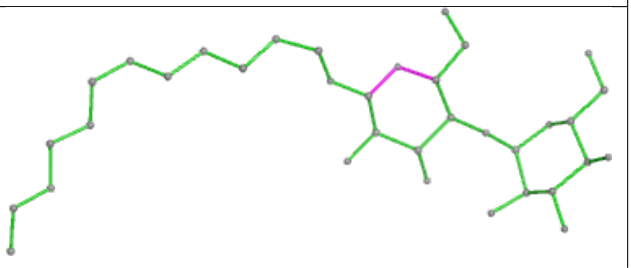


Rings

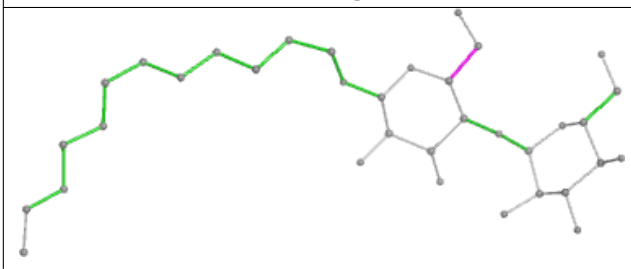
Ligand LMT BG 1006



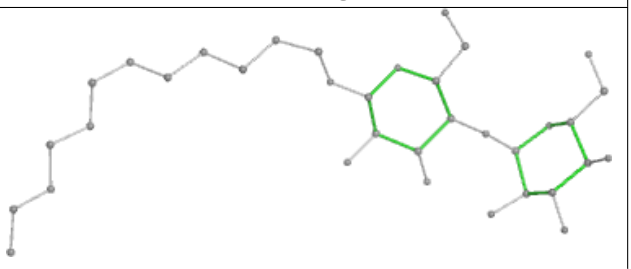
Bond lengths



Bond angles

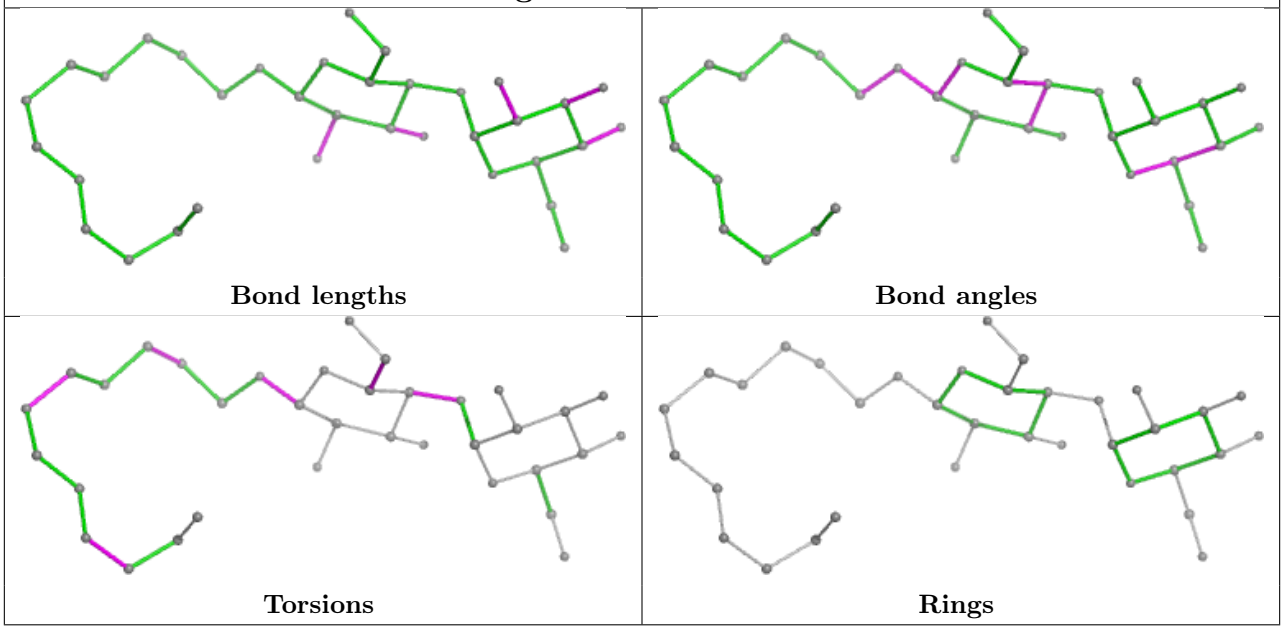


Torsions

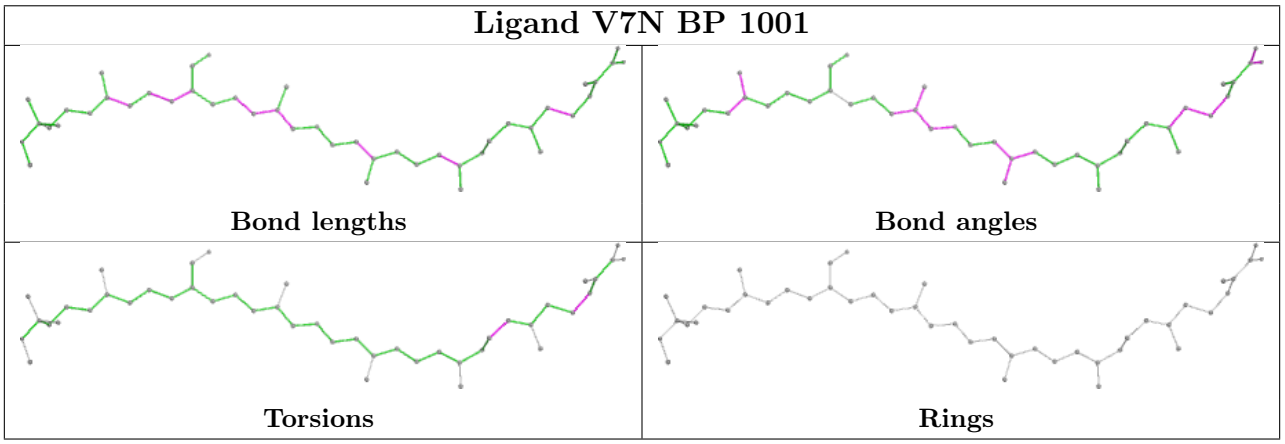


Rings

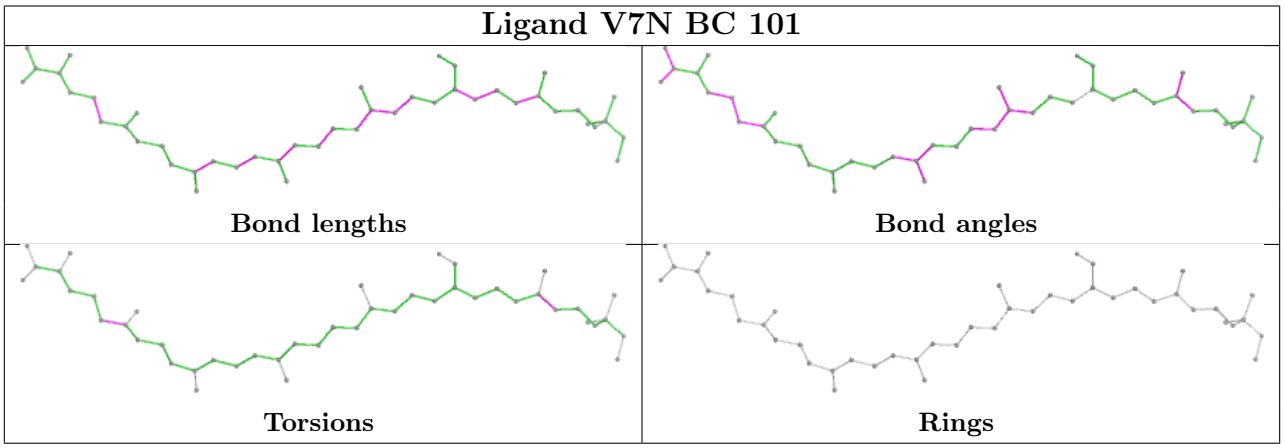
Ligand LMT bb 102



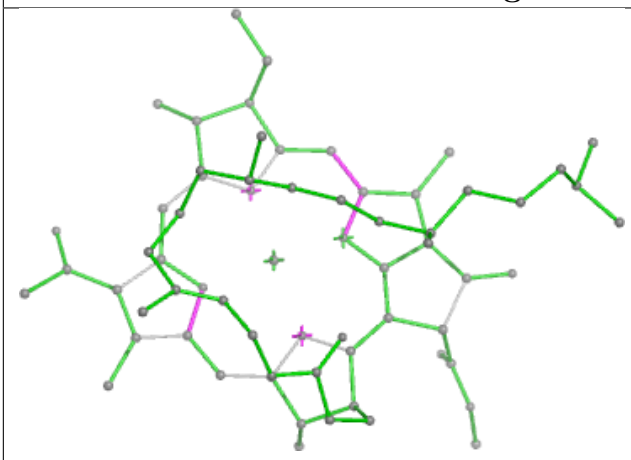
Ligand V7N BP 1001



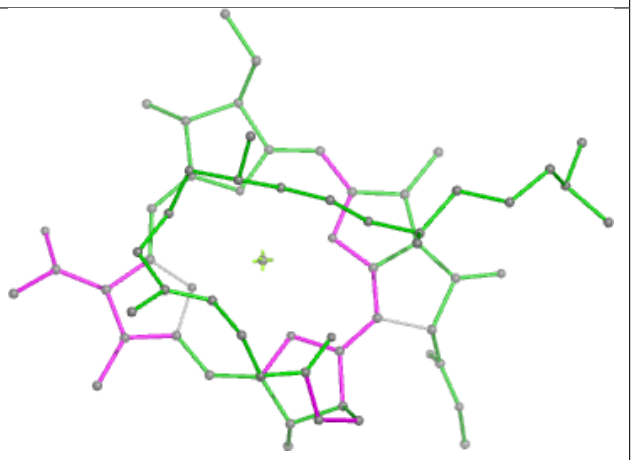
Ligand V7N BC 101



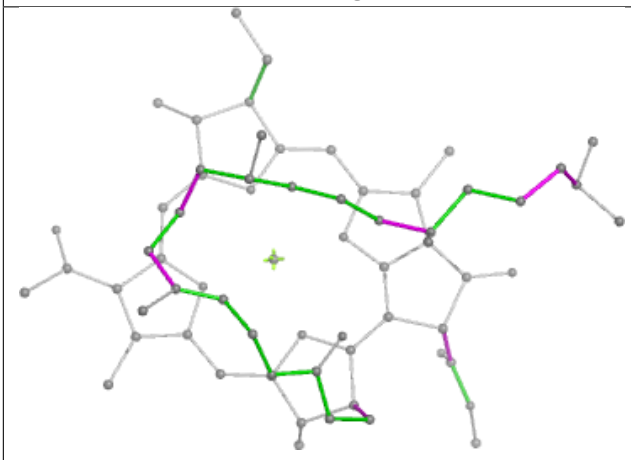
Ligand BCL AE 1003



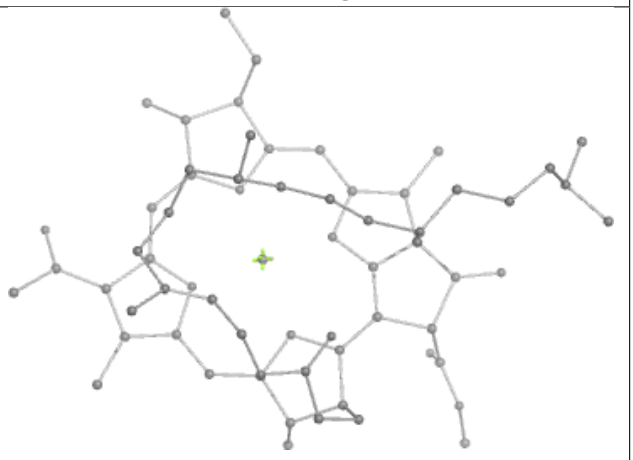
Bond lengths



Bond angles

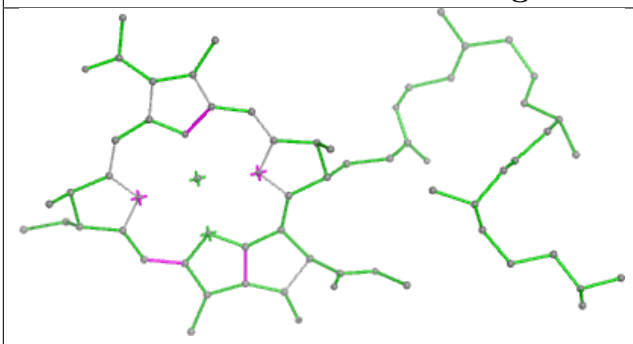


Torsions

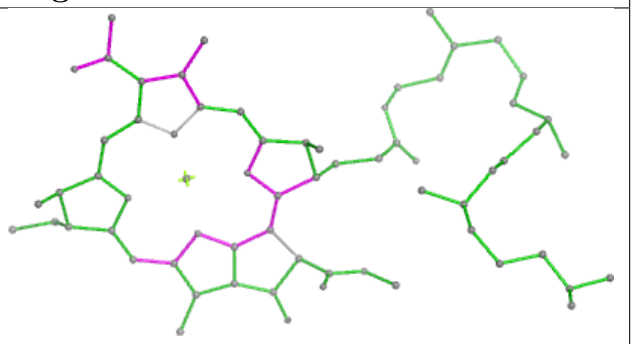


Rings

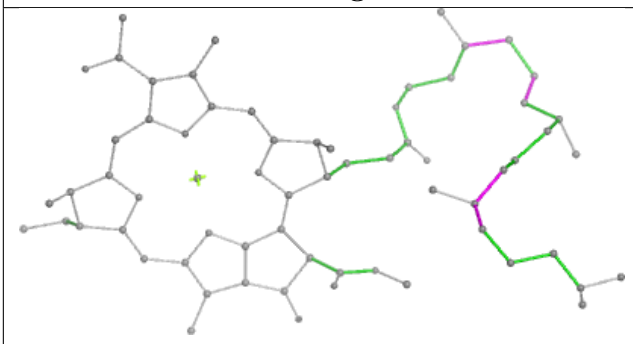
Ligand BCL ag 1001



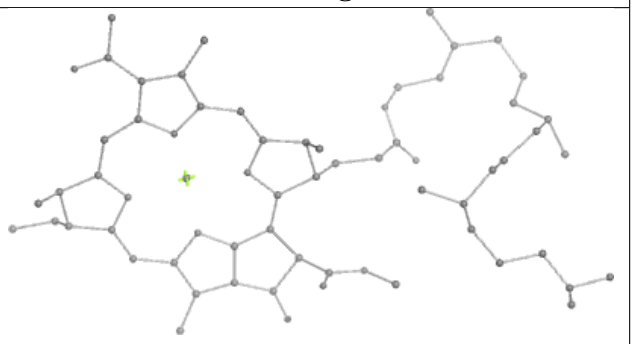
Bond lengths



Bond angles

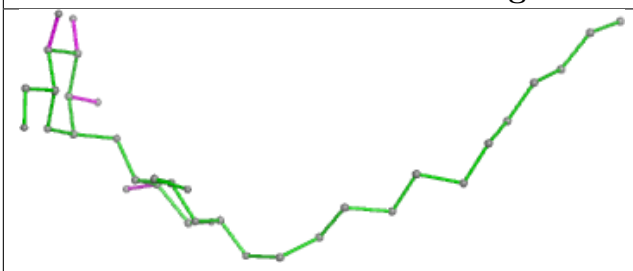


Torsions

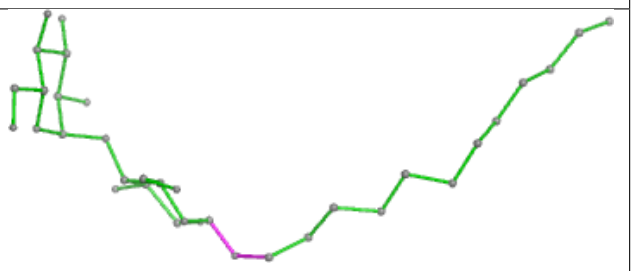


Rings

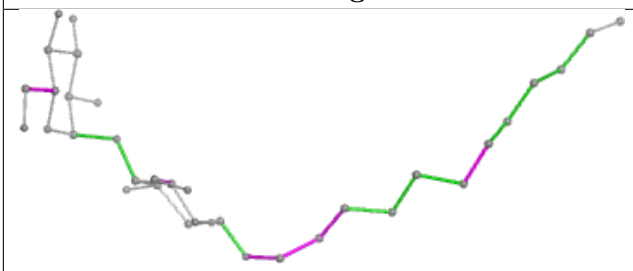
Ligand LMT BB 104



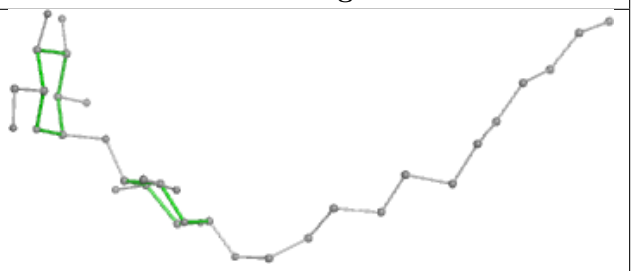
Bond lengths



Bond angles

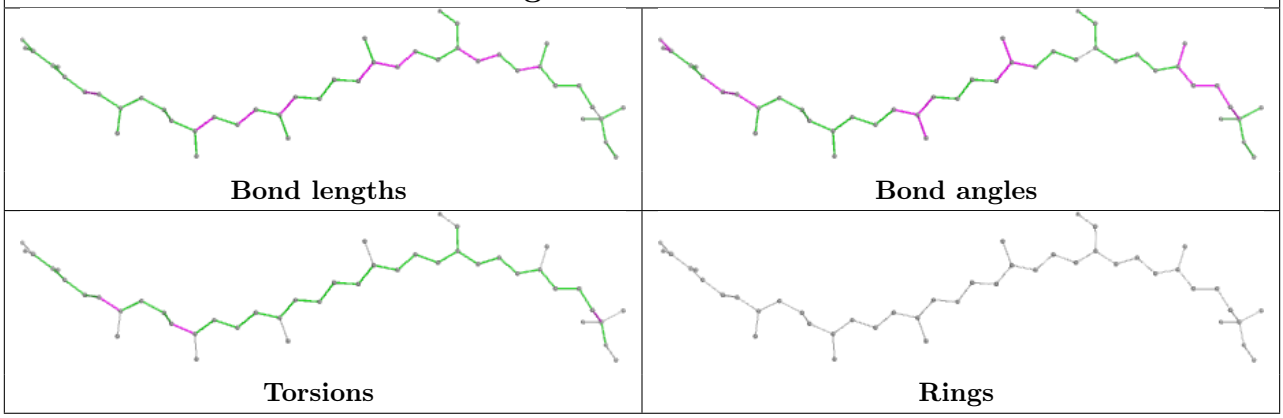


Torsions

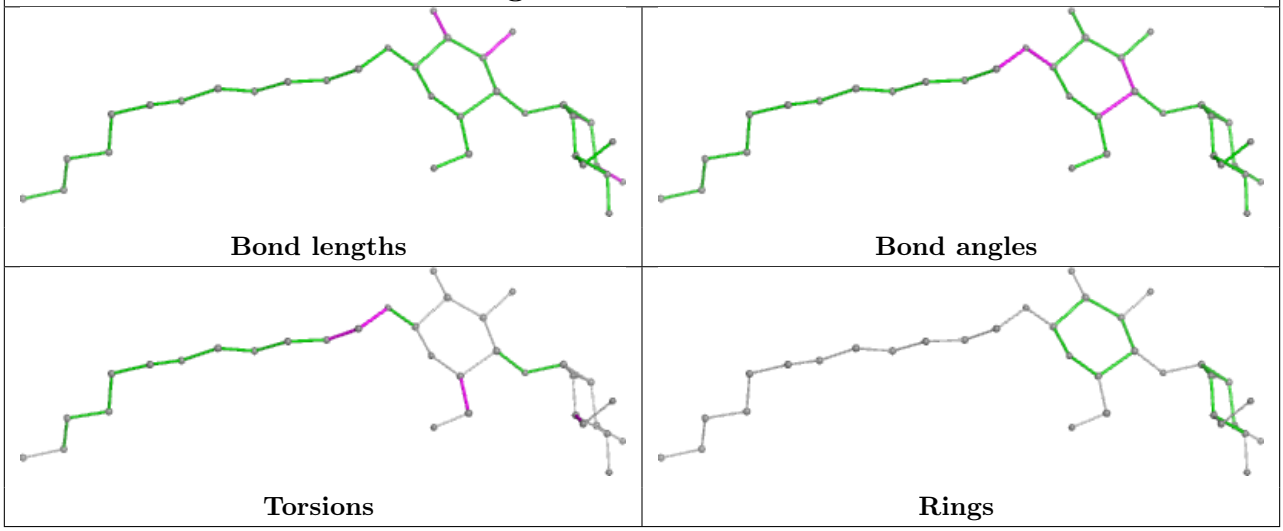


Rings

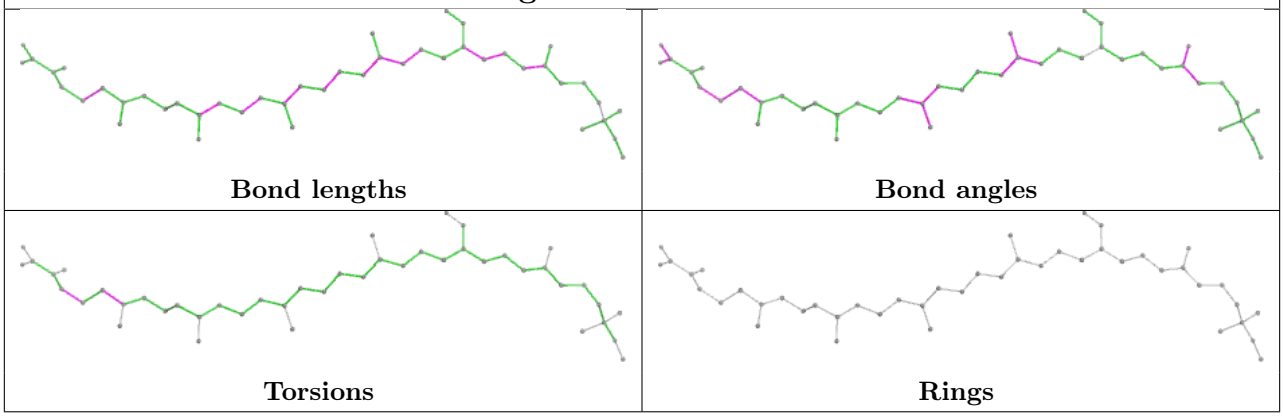
Ligand V7N bl 102



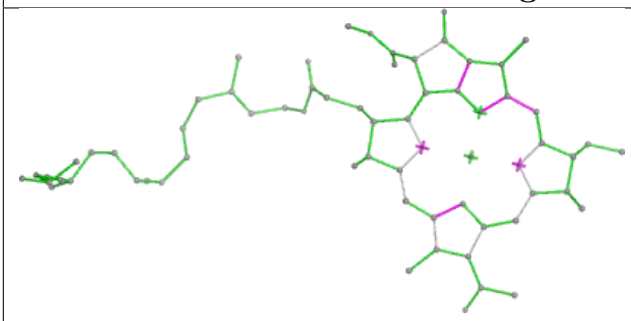
Ligand LMT BI 1006



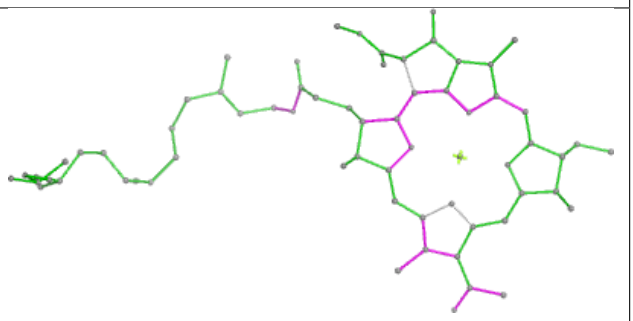
Ligand V7N bn 102



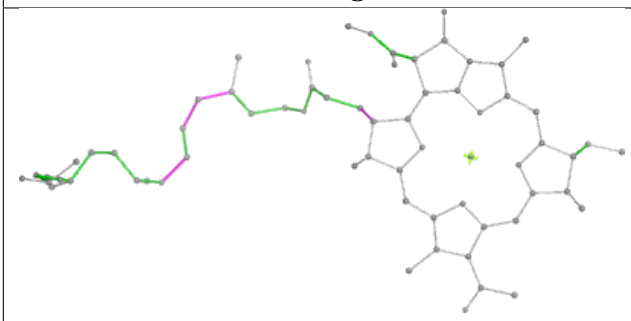
Ligand BCL ab 102



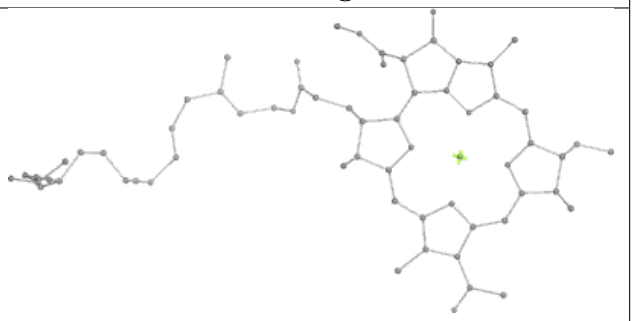
Bond lengths



Bond angles

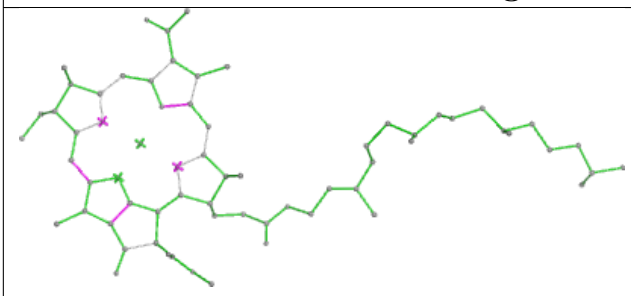


Torsions

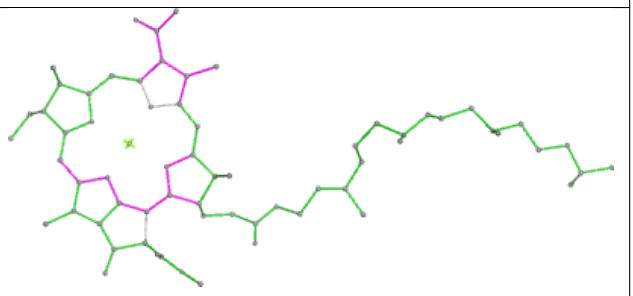


Rings

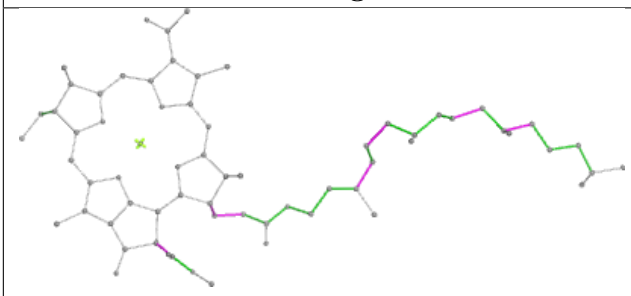
Ligand BCL BV 1005



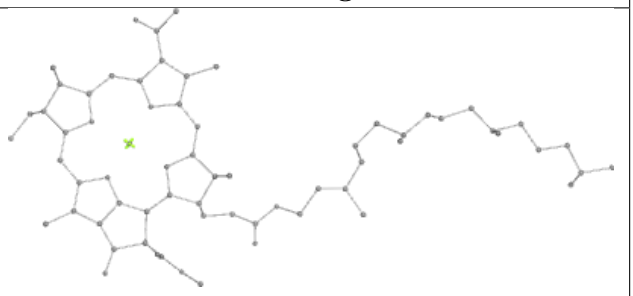
Bond lengths



Bond angles

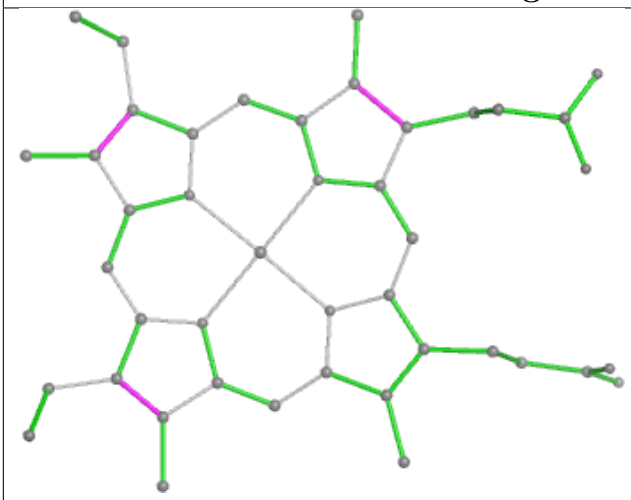


Torsions

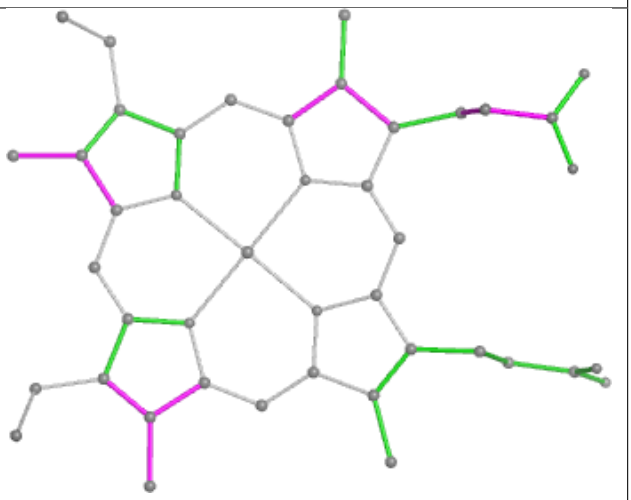


Rings

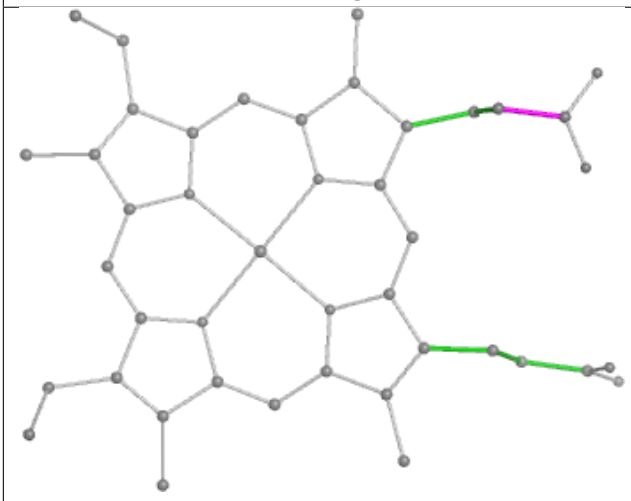
Ligand HEC C 404



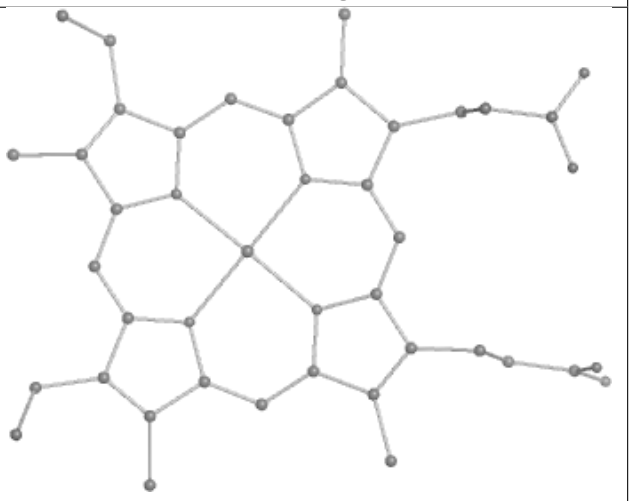
Bond lengths



Bond angles

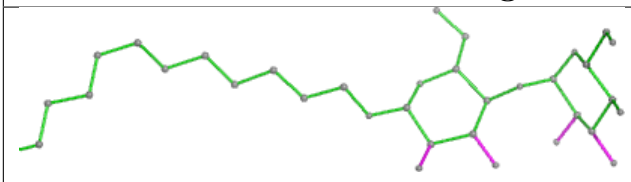


Torsions

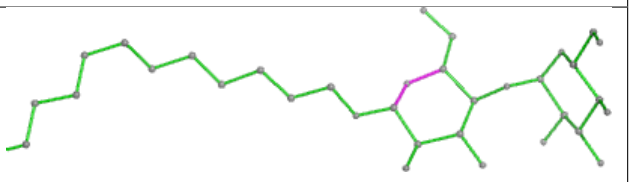


Rings

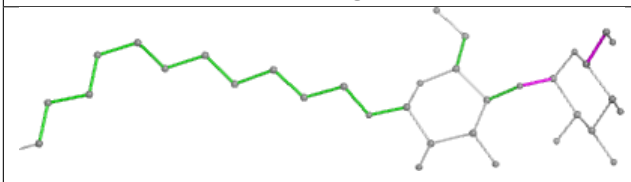
Ligand LMT BO 1002



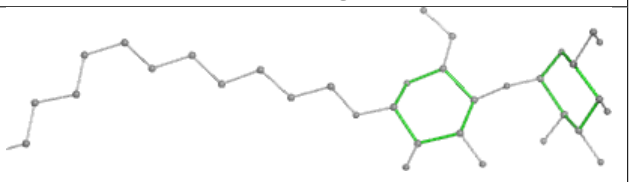
Bond lengths



Bond angles

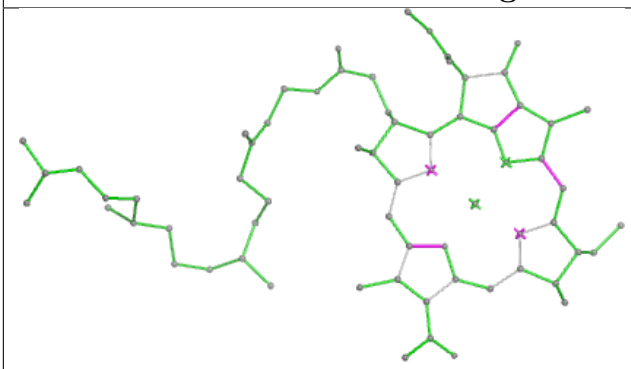


Torsions

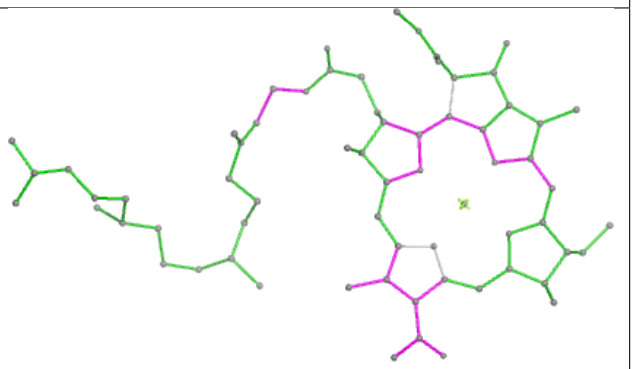


Rings

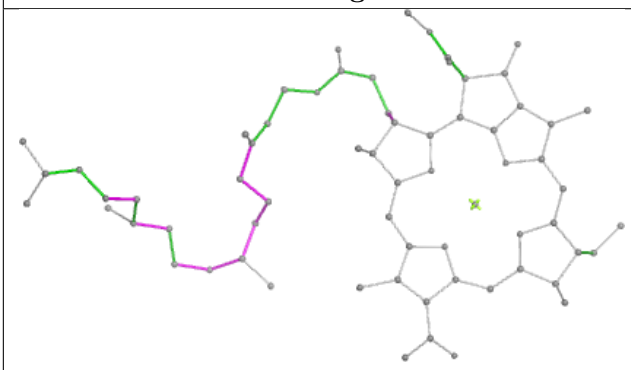
Ligand BCL BM 1002



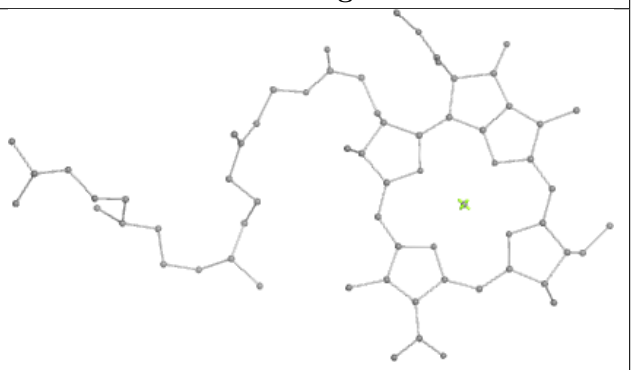
Bond lengths



Bond angles

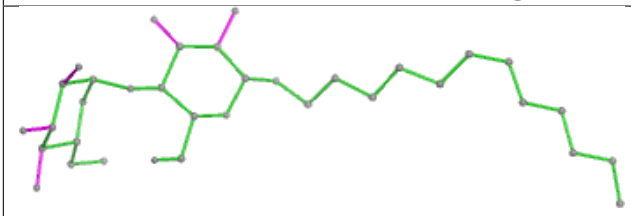


Torsions

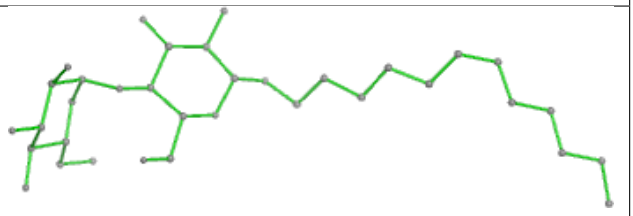


Rings

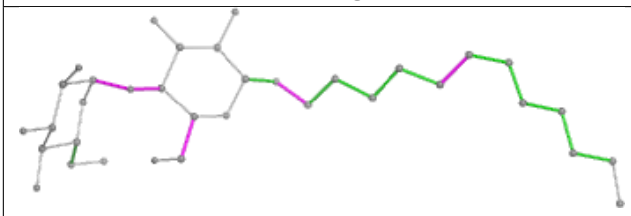
Ligand LMT BT 104



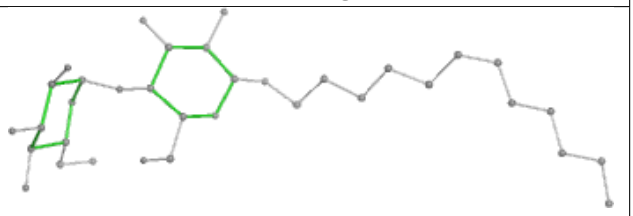
Bond lengths



Bond angles

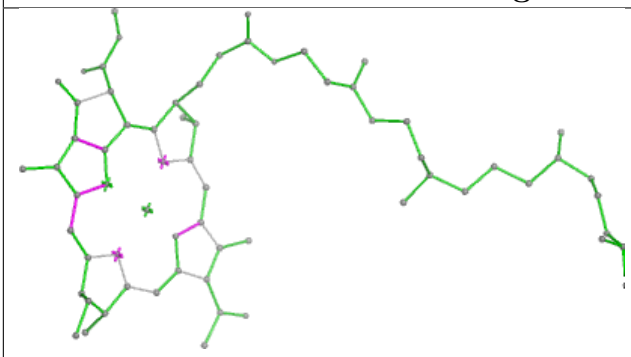


Torsions

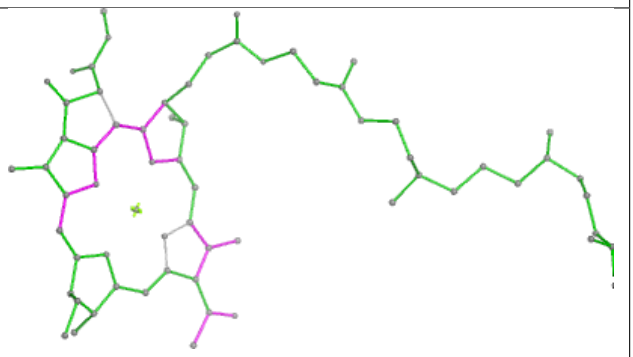


Rings

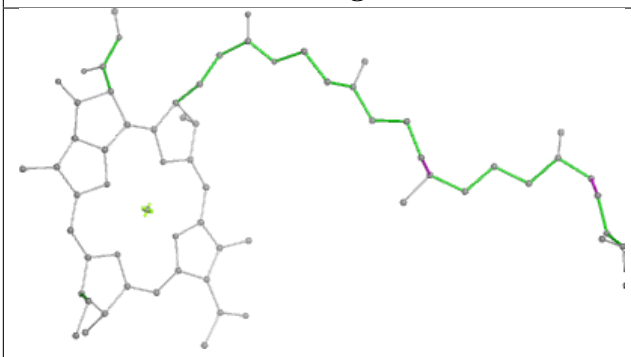
Ligand BCL AV 102



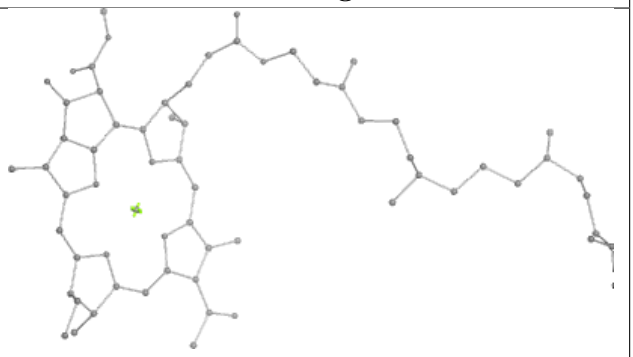
Bond lengths



Bond angles

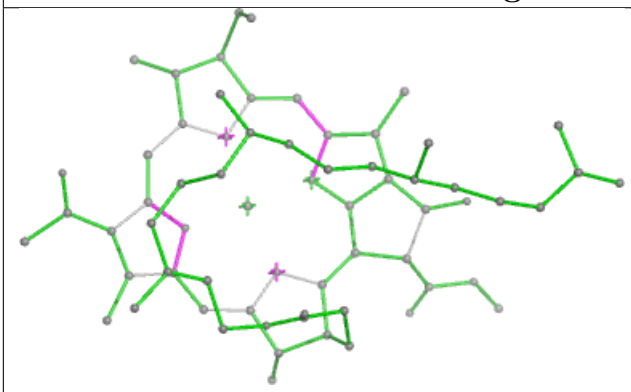


Torsions

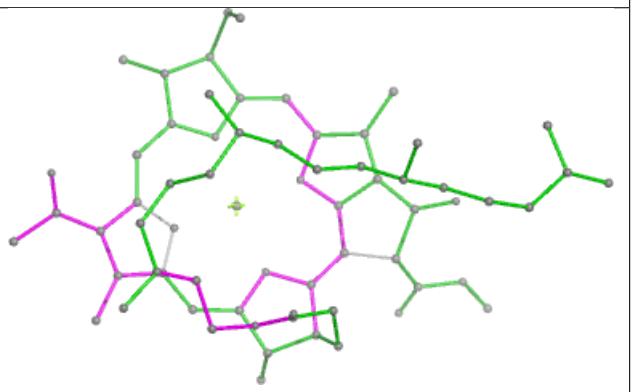


Rings

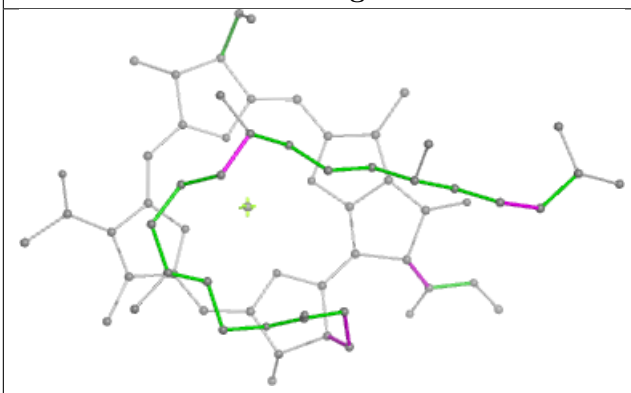
Ligand BCL AE 1004



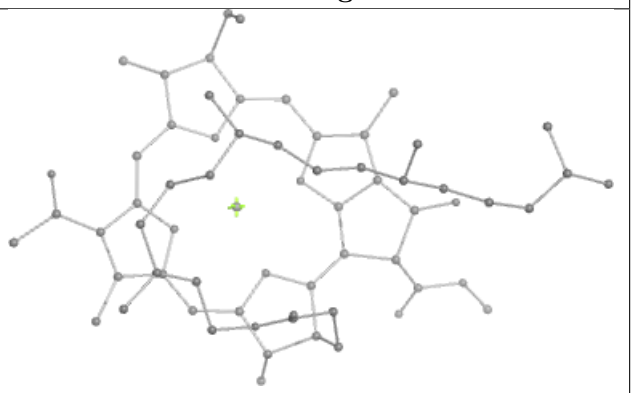
Bond lengths



Bond angles

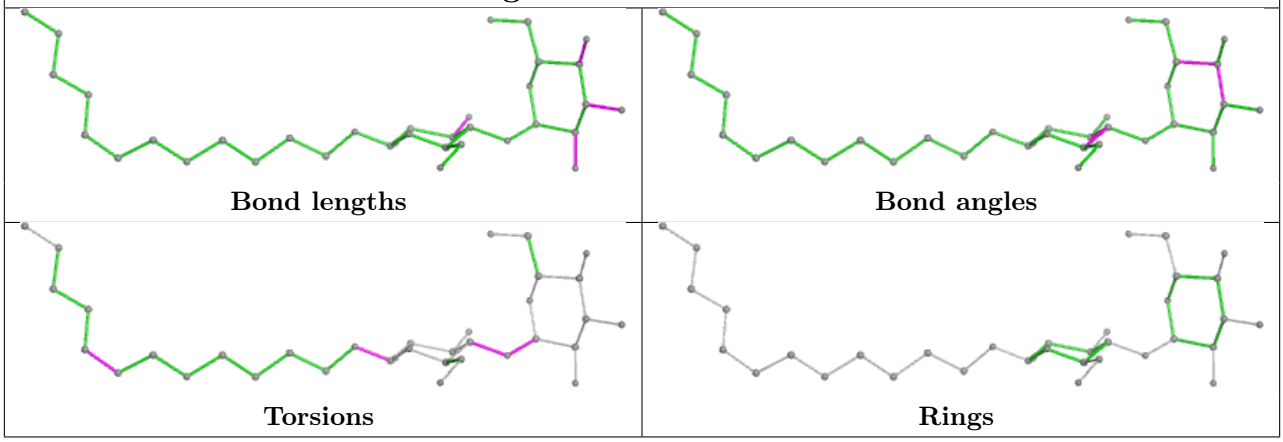


Torsions

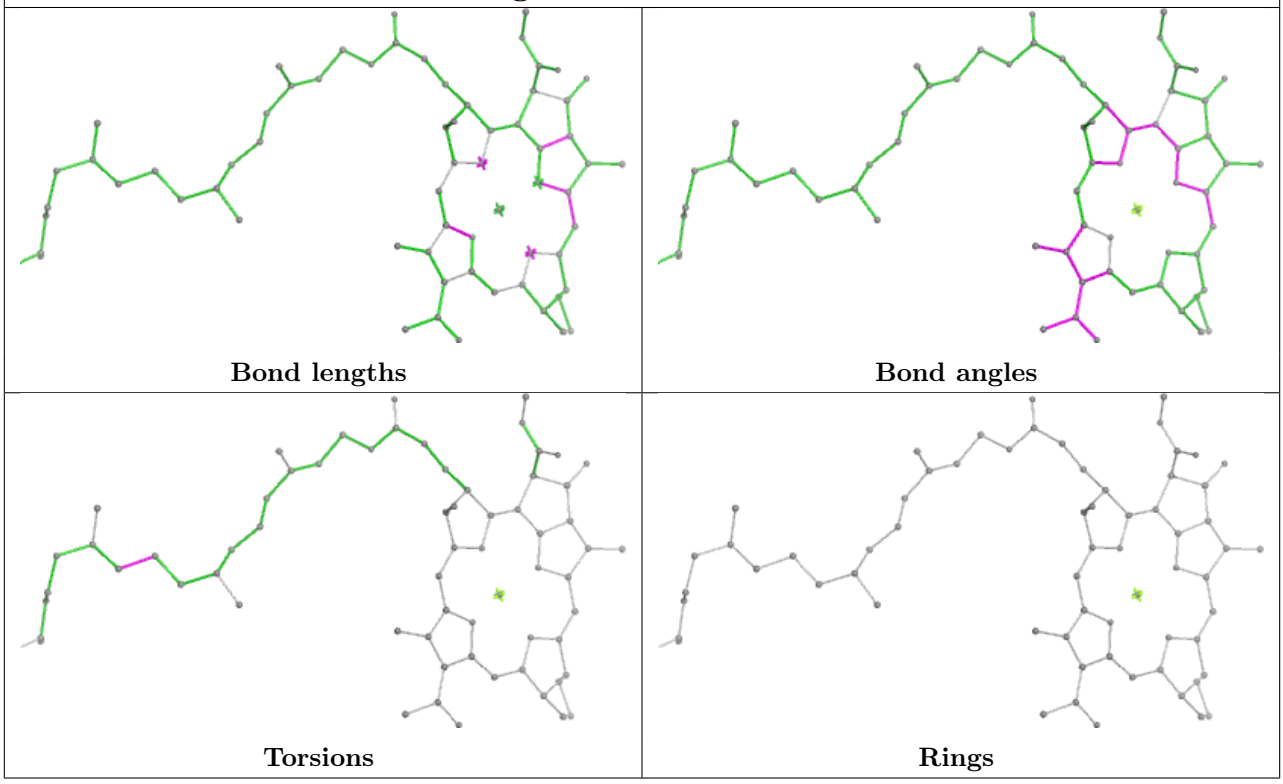


Rings

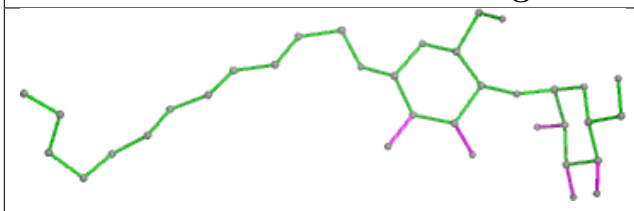
Ligand LMT BL 1002



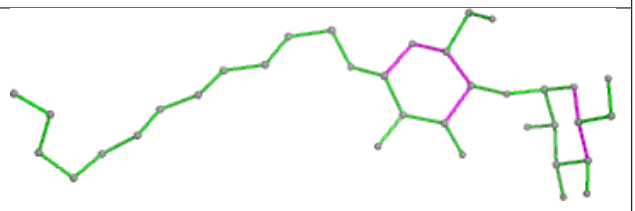
Ligand BCL AD 102



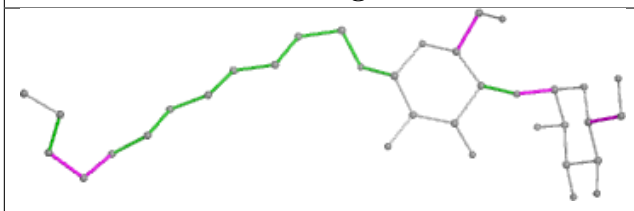
Ligand LMT AJ 104



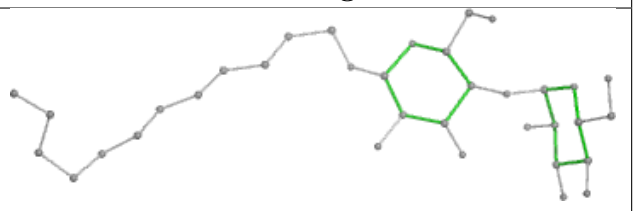
Bond lengths



Bond angles

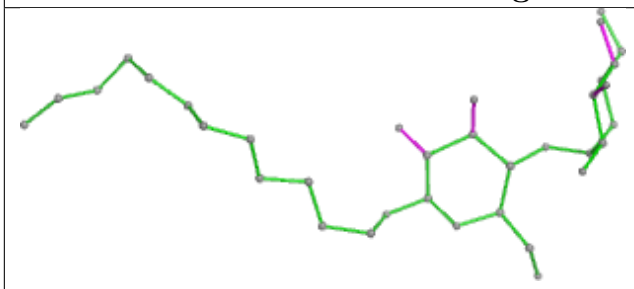


Torsions

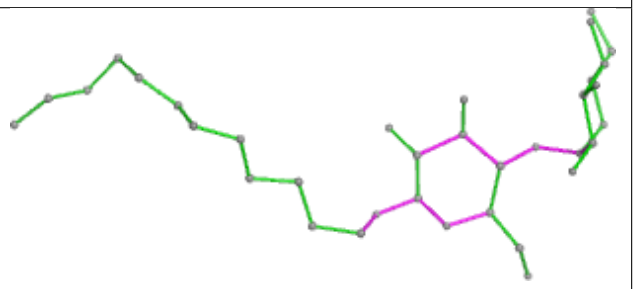


Rings

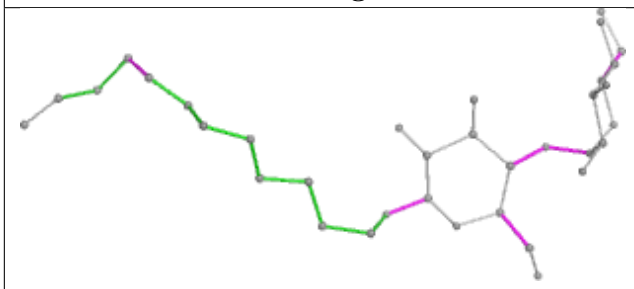
Ligand LMT AJ 103



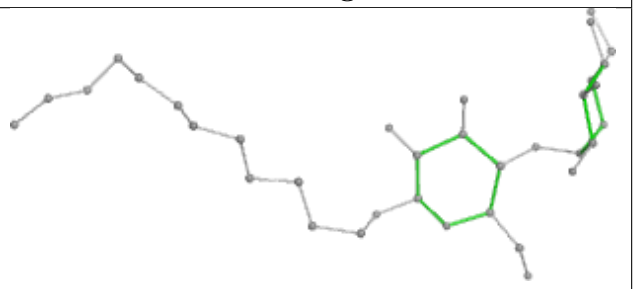
Bond lengths



Bond angles

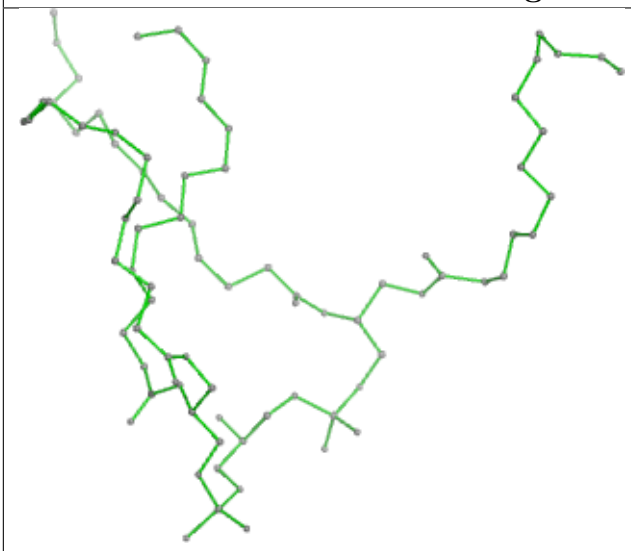


Torsions



Rings

Ligand CD4 af 102



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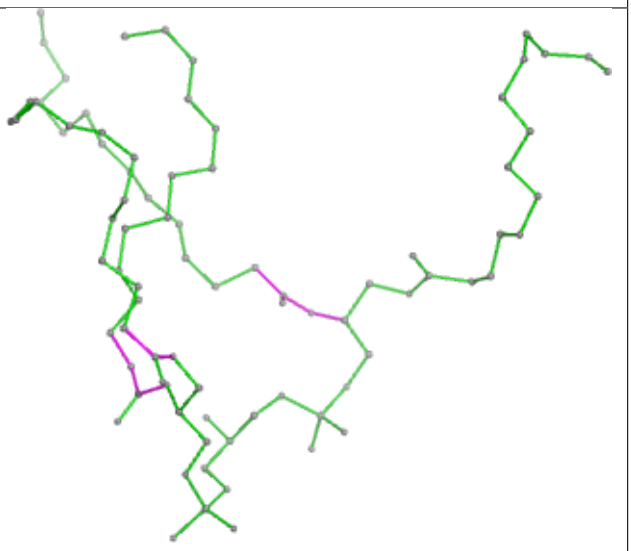
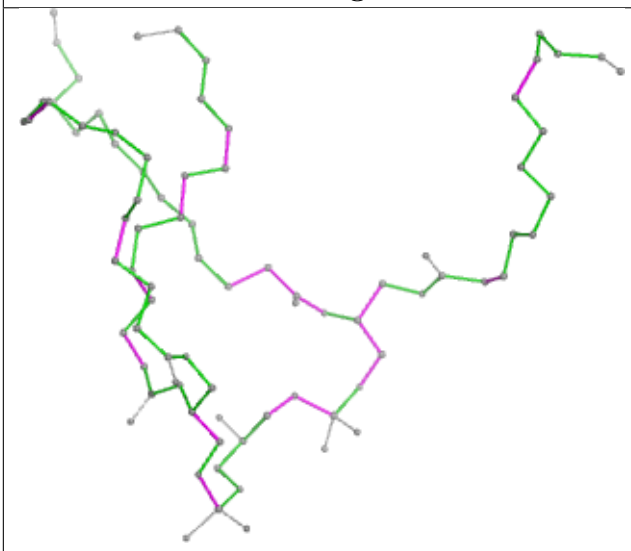


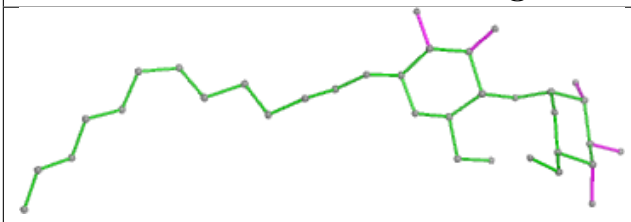
Bond angles



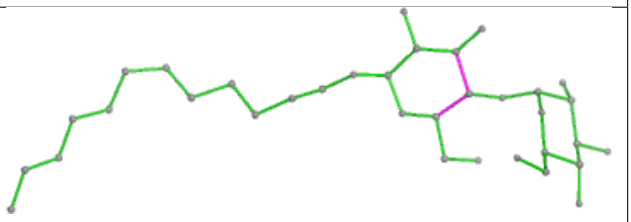
Torsions

Rings

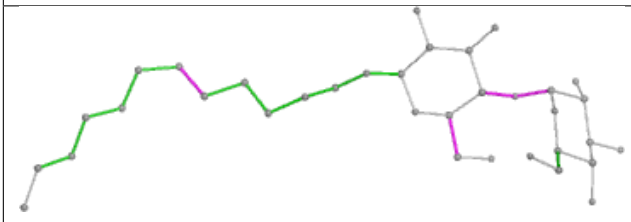
Ligand LMT BC 102



Bond lengths



Bond angles



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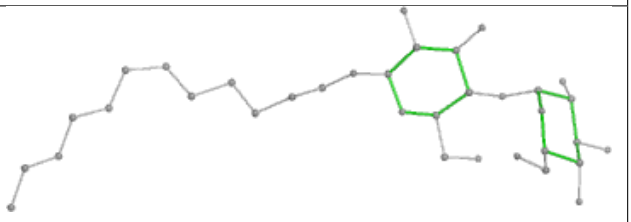
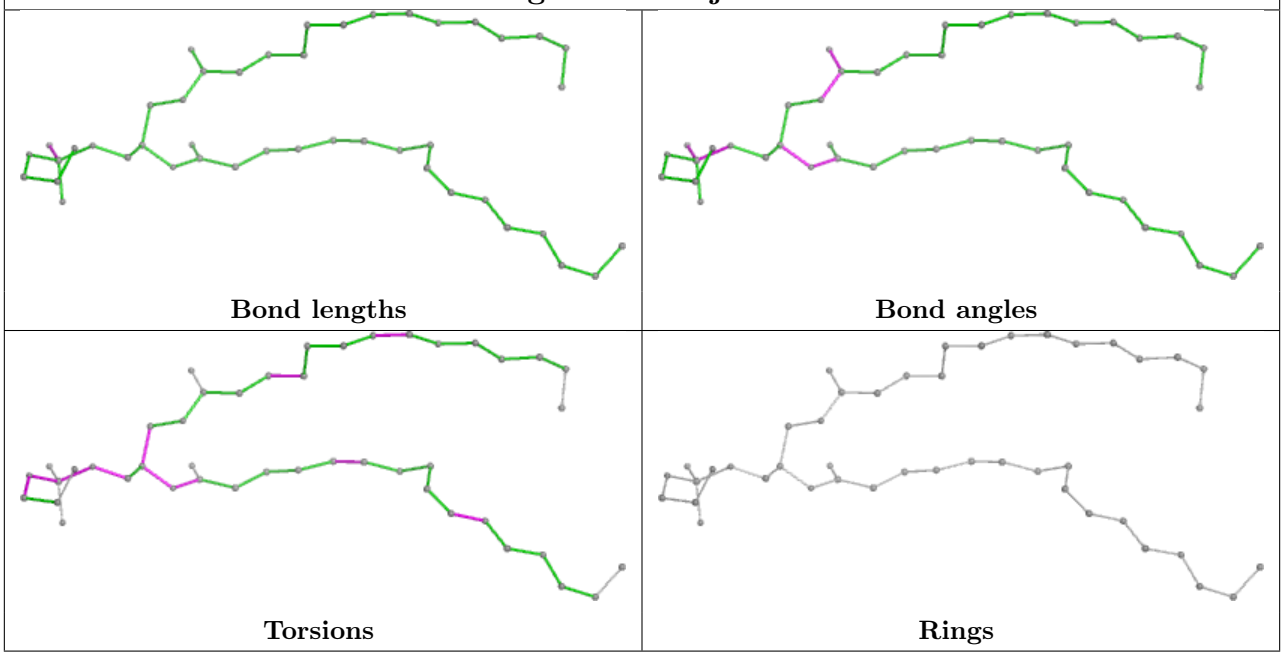
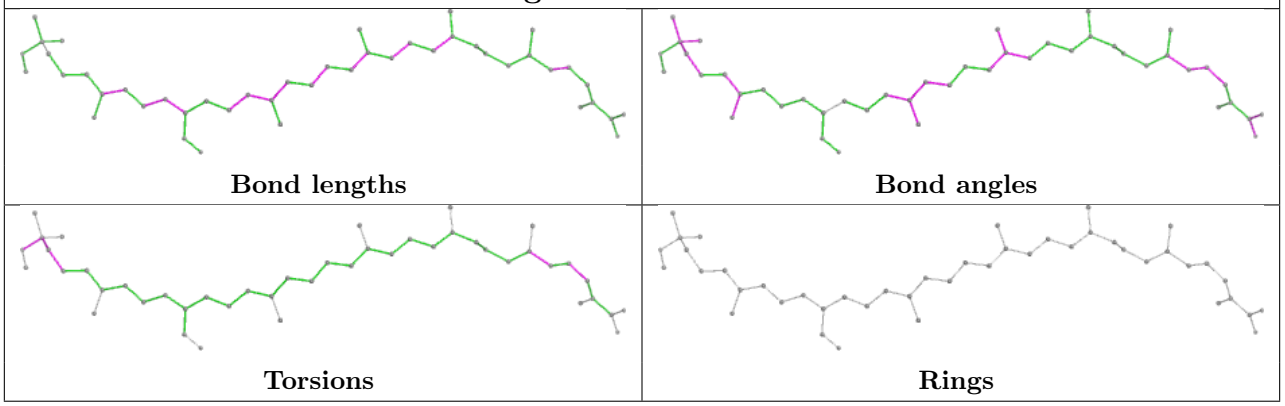


Rings

Ligand 0V9 bj 104



Ligand V7N bi 101



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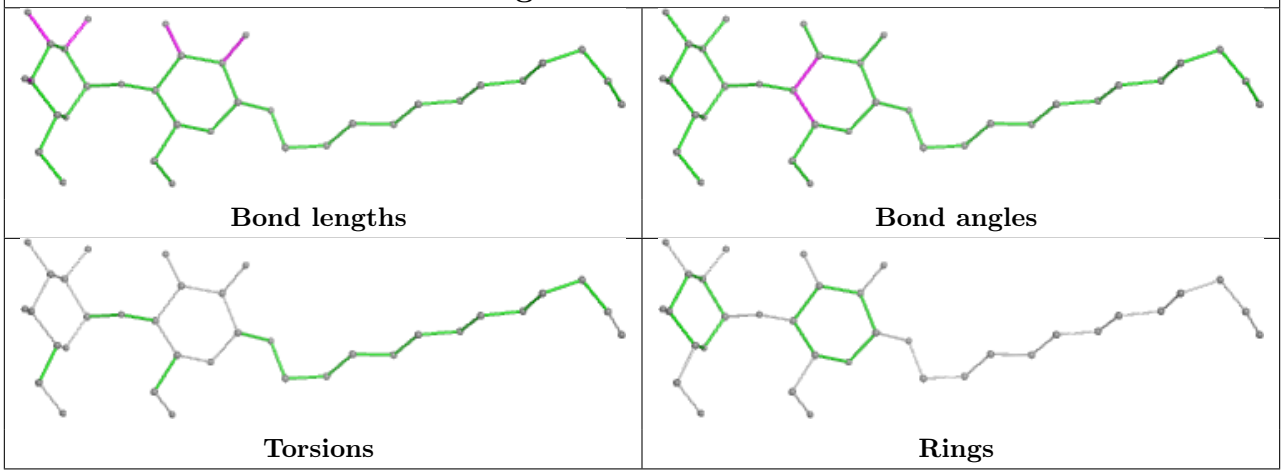

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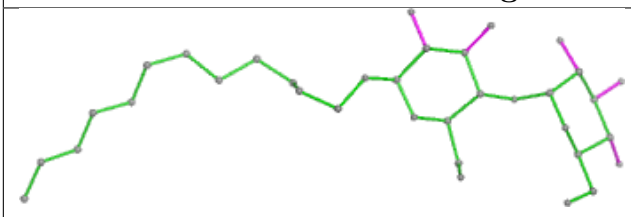
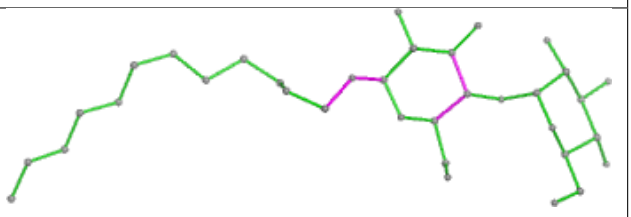
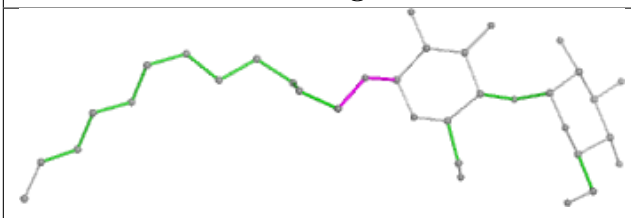


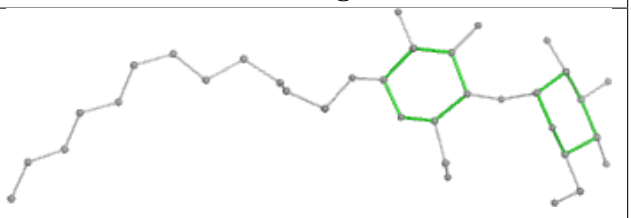
Bond lengths



Bond angles

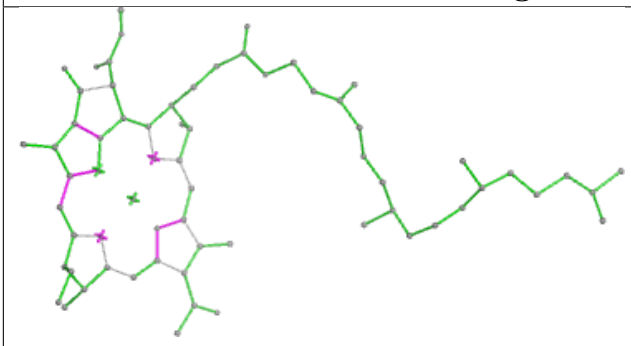


Torsions

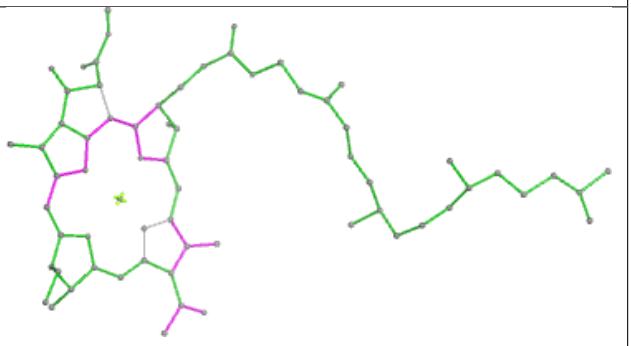


Rings

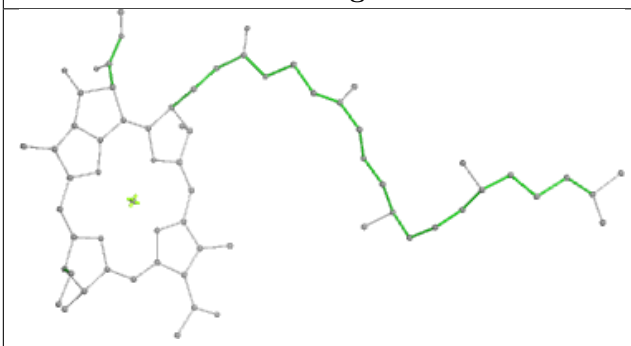
Ligand BCL AT 101



Bond lengths



Bond angles



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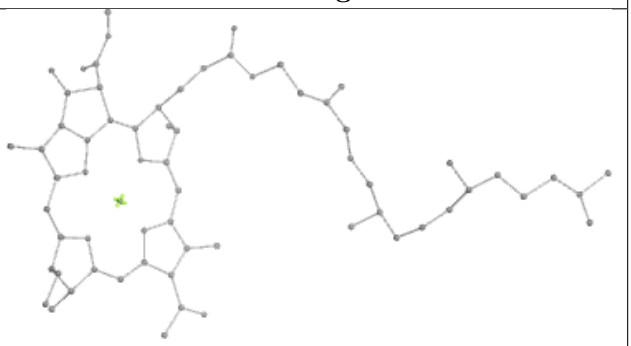
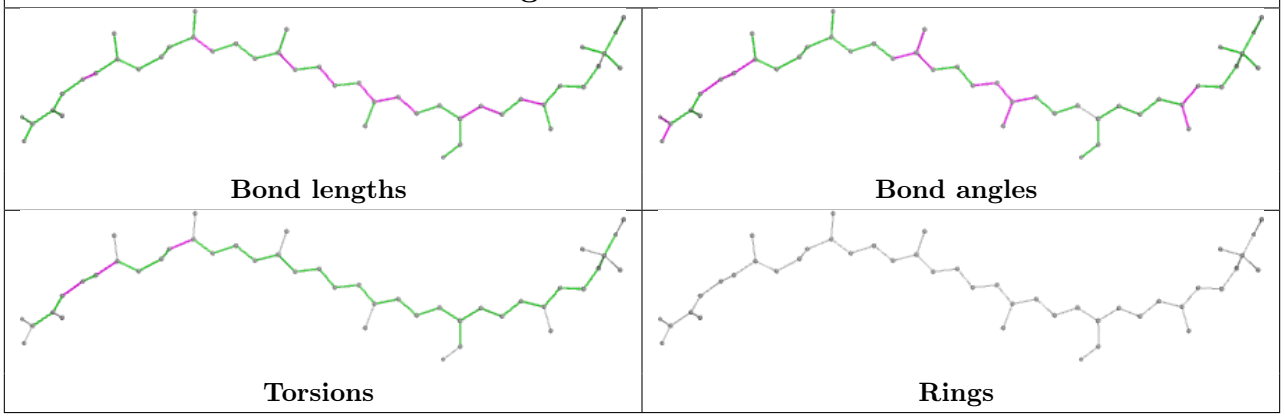
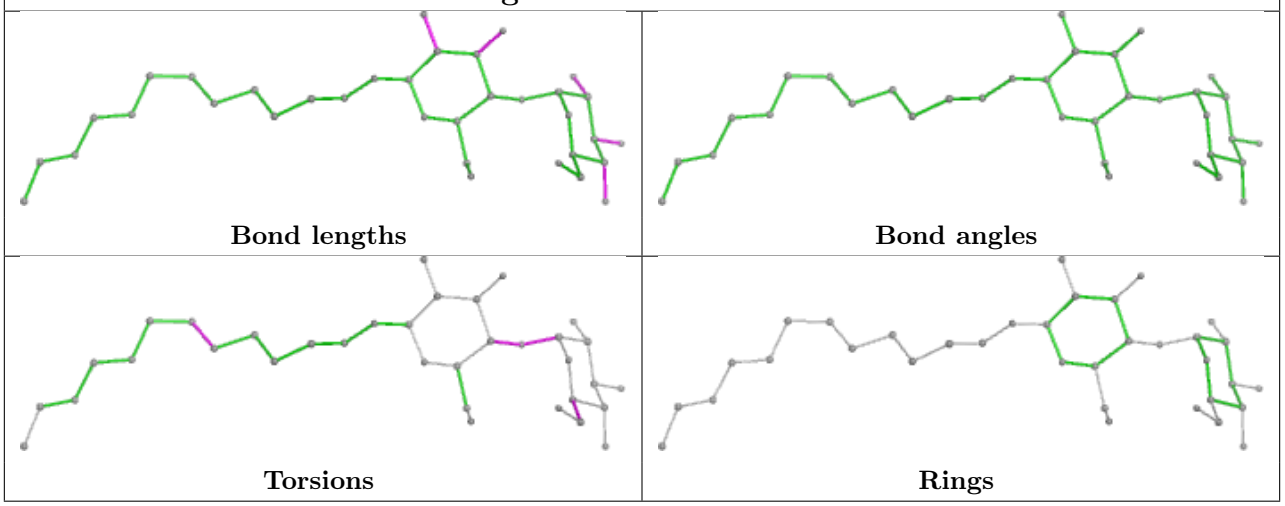


Rings

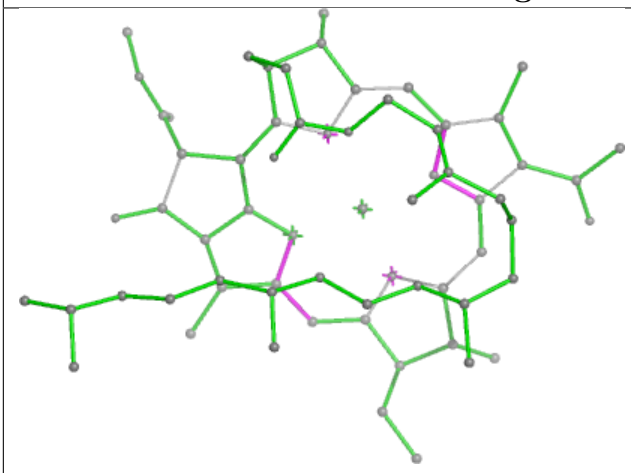
Ligand V7N bc 101



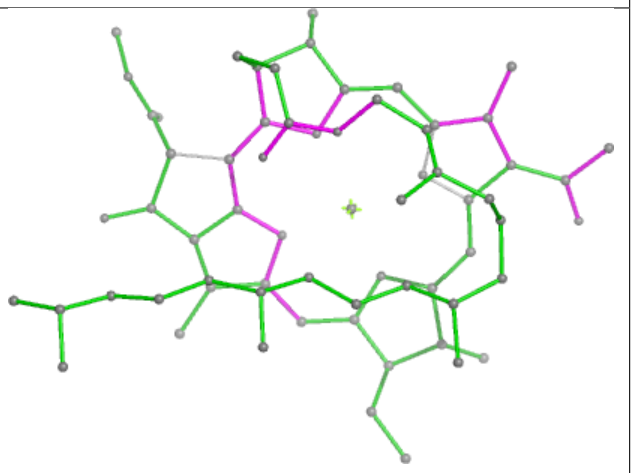
Ligand LMT BP 1002



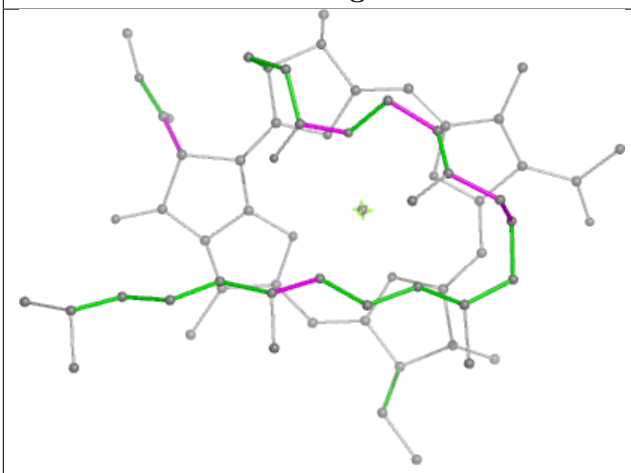
Ligand BCL AS 104



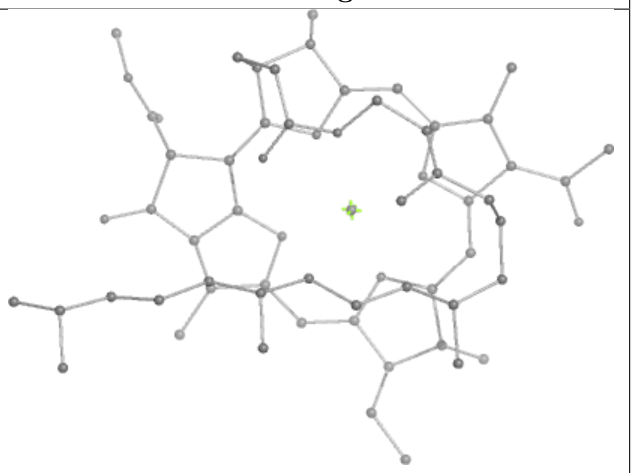
Bond lengths



Bond angles

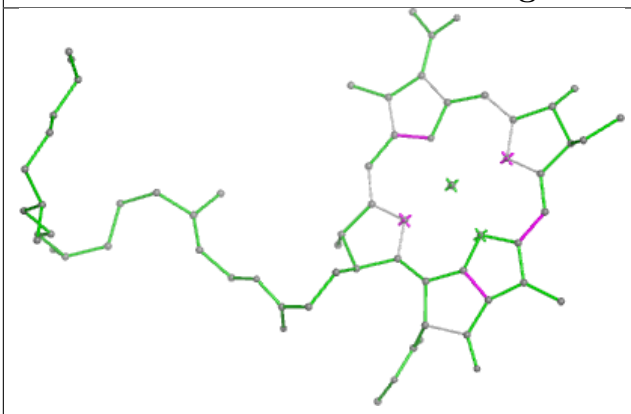


Torsions

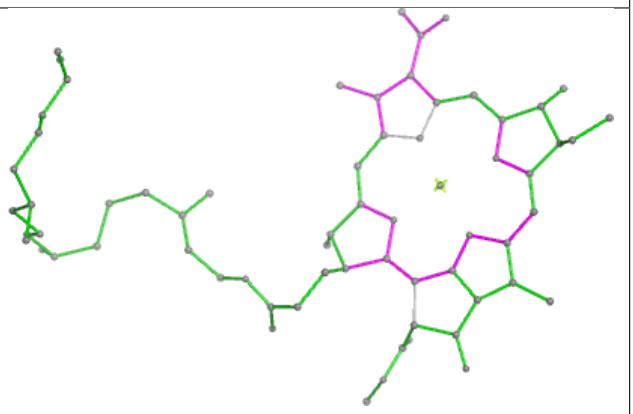


Rings

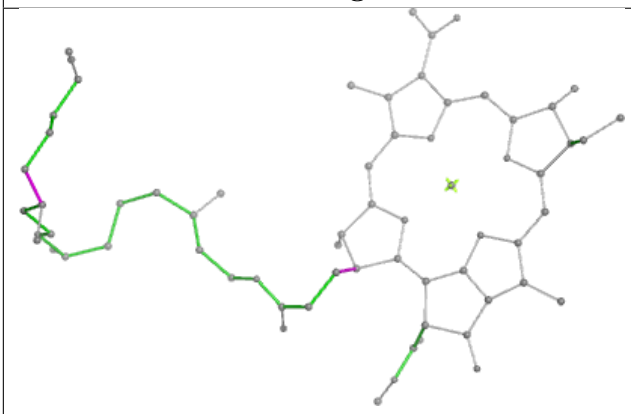
Ligand BCL bo 103



Bond lengths



Bond angles



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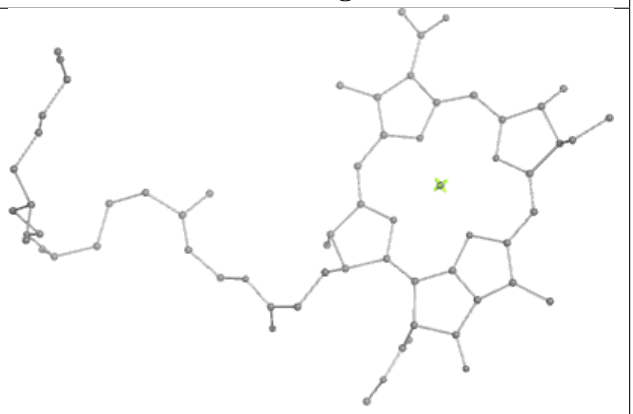
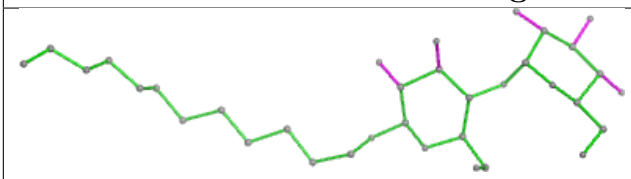
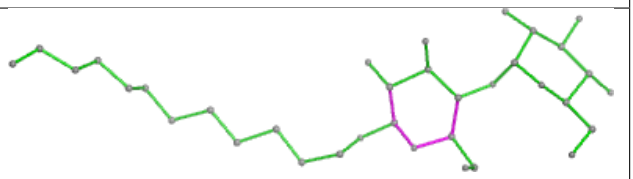


Rings

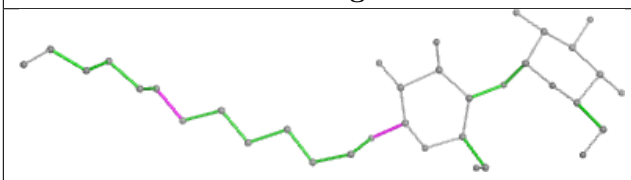
Ligand LMT BE 102



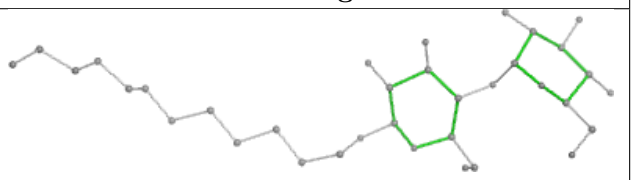
Bond lengths



Bond angles

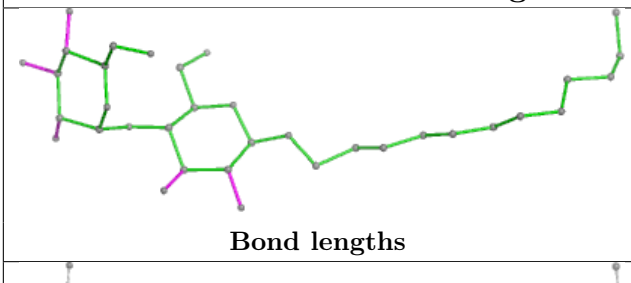


Torsions



Rings

Ligand LMT BT 102



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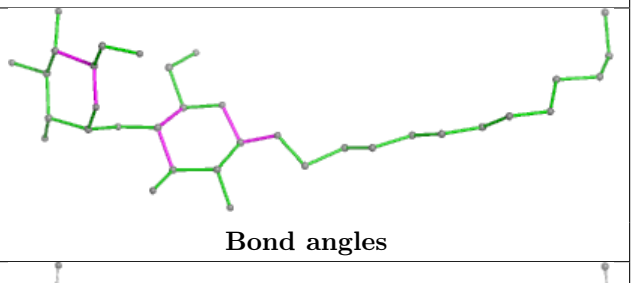
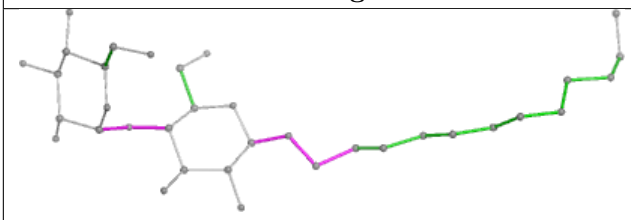
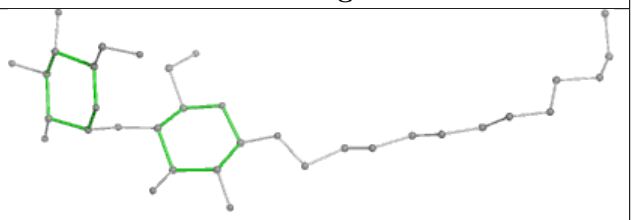


Bond angles

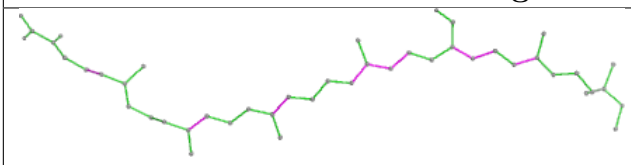


Torsions

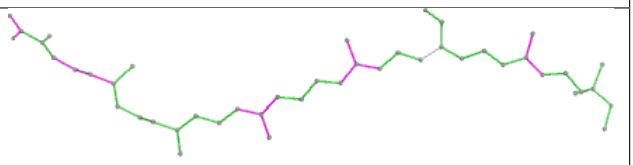


Rings

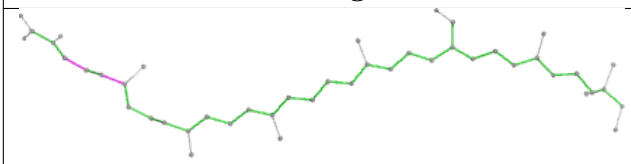
Ligand V7N BA 101



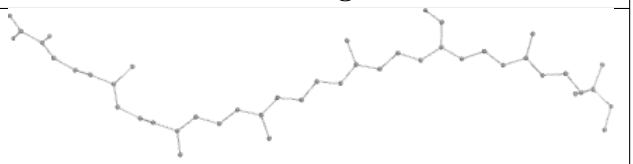
Bond lengths



Bond angles

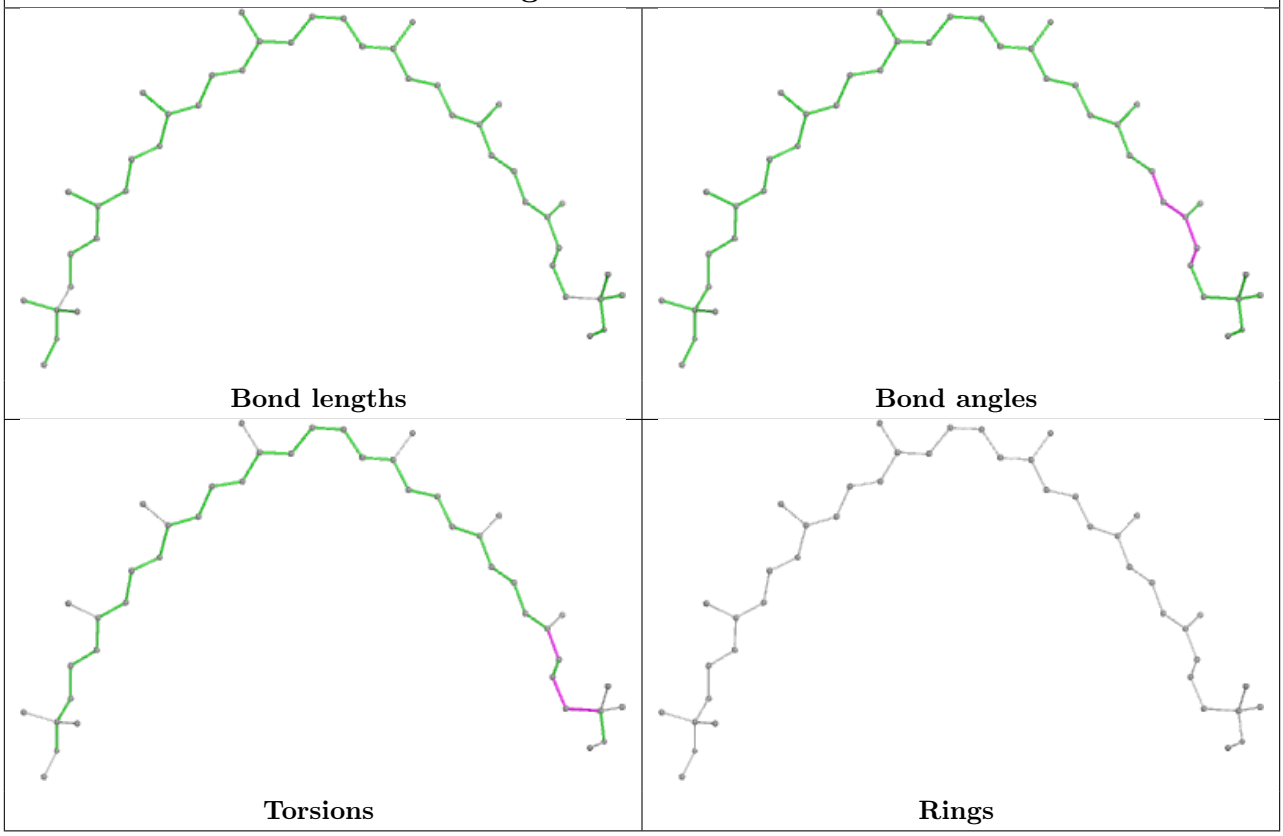


Torsions

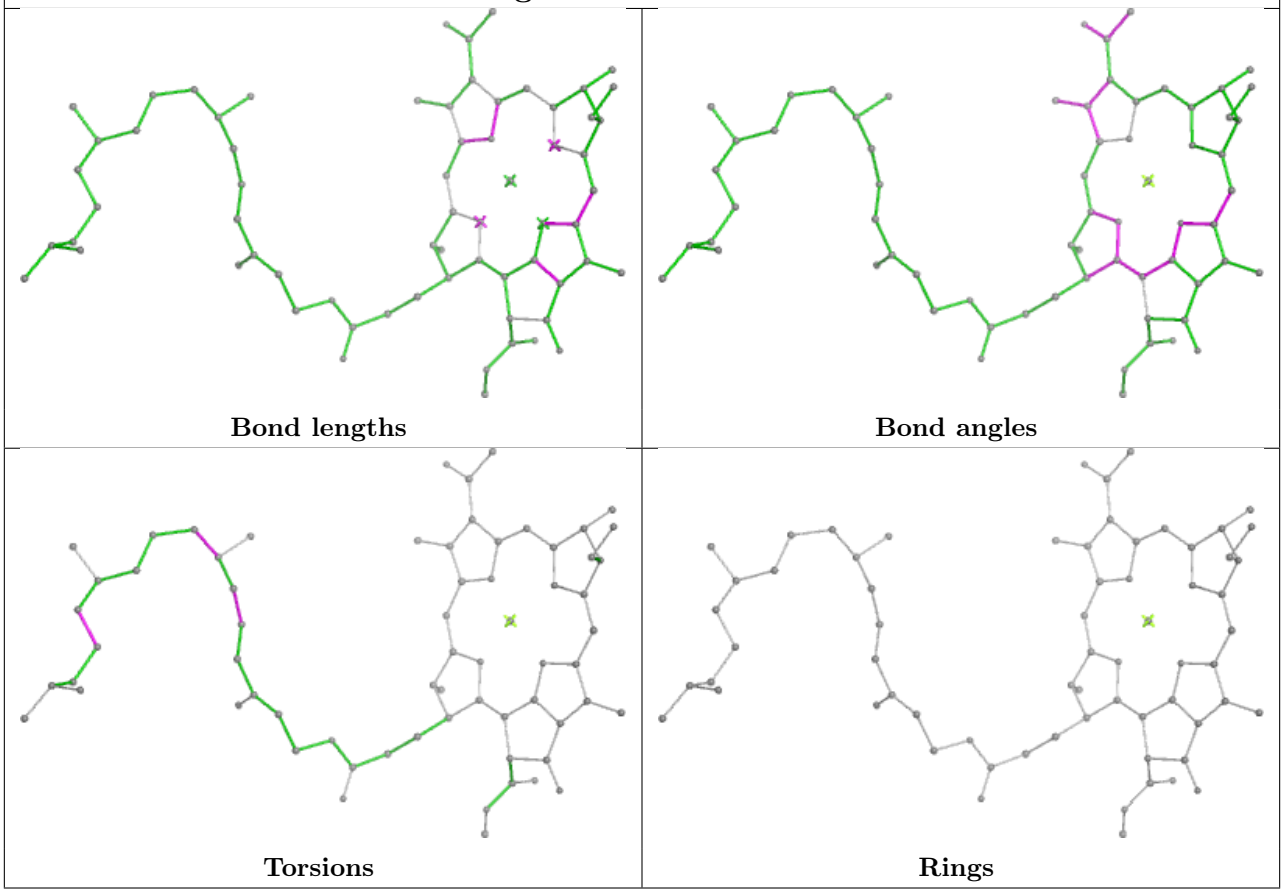


Rings

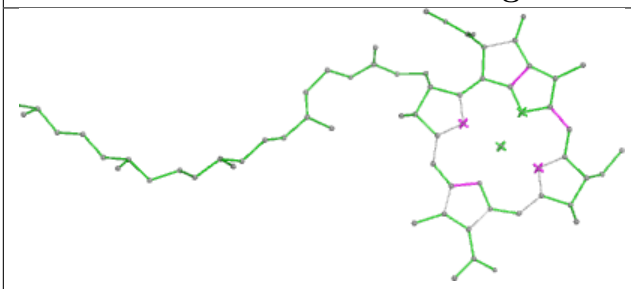
Ligand CRT M 404



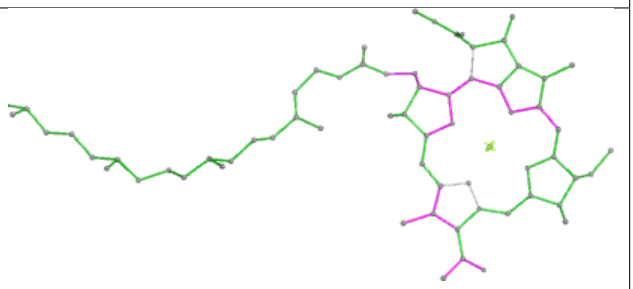
Ligand BCL AL 103



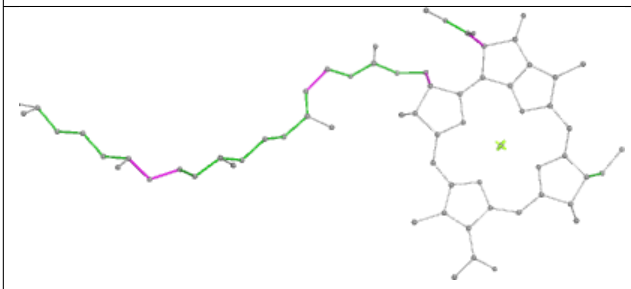
Ligand BCL BK 1006



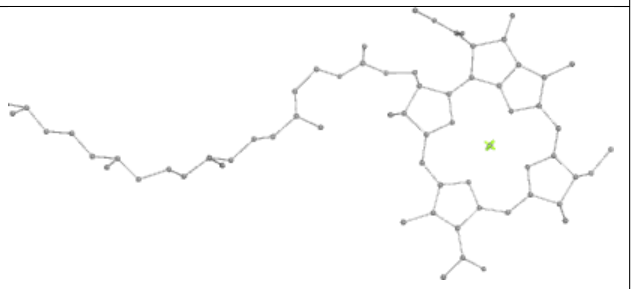
Bond lengths



Bond angles

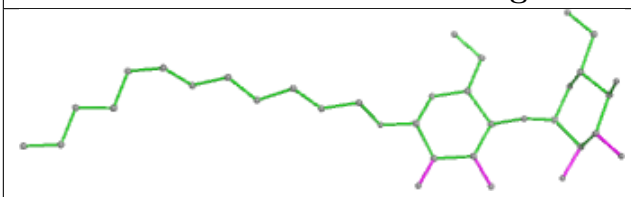


Torsions

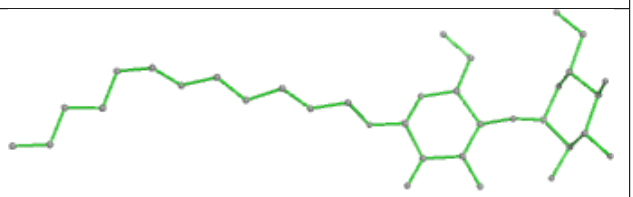


Rings

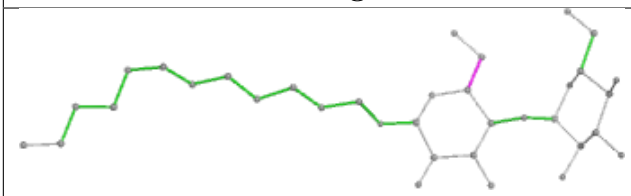
Ligand LMT AL 102



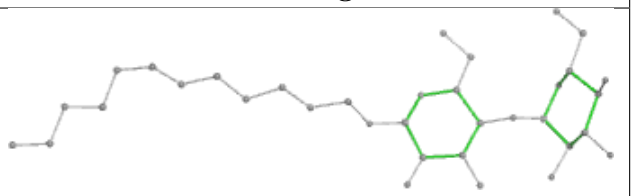
Bond lengths



Bond angles

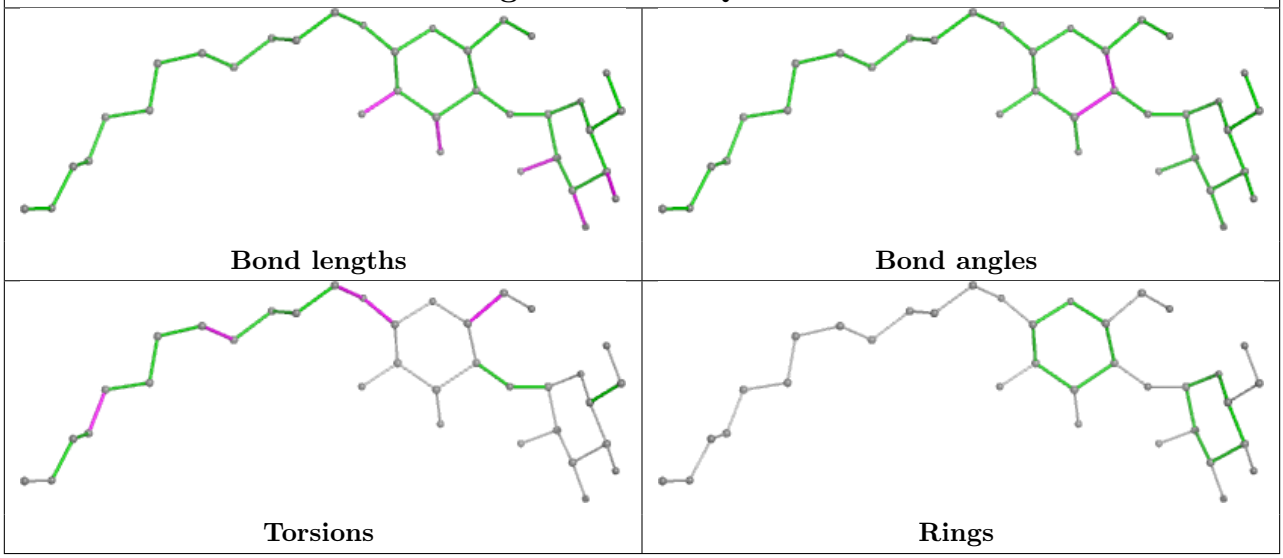


Torsions

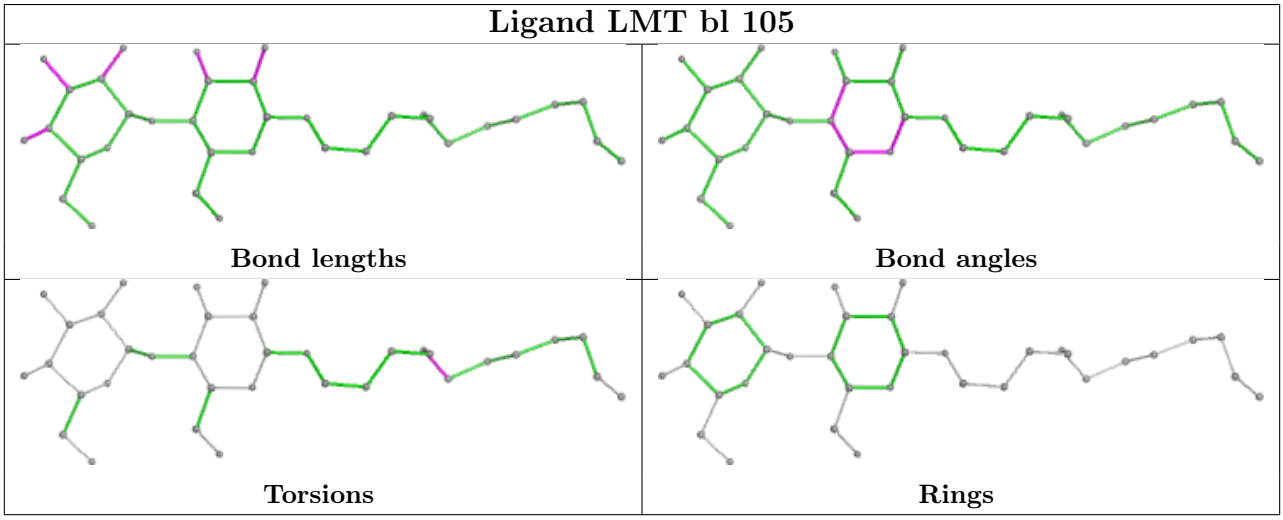


Rings

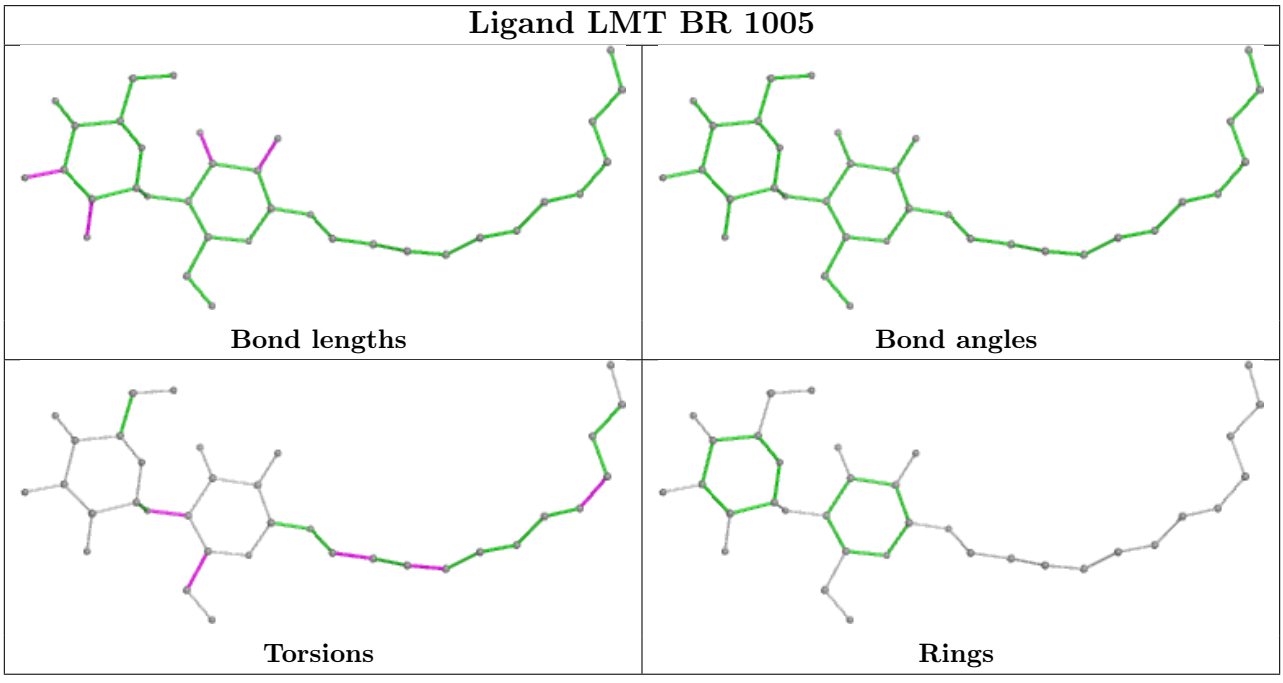
Ligand LMT BQ 1004



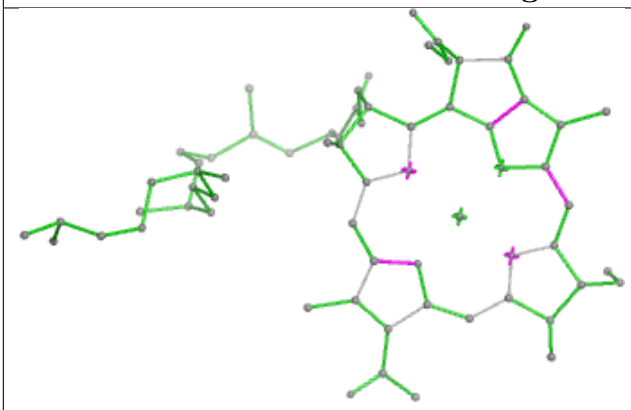
Ligand LMT bl 105



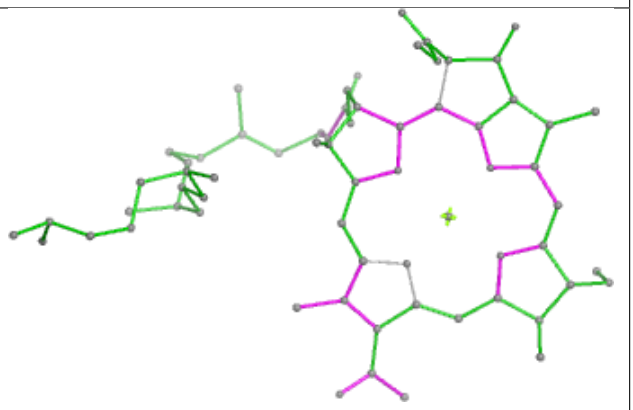
Ligand LMT BR 1005



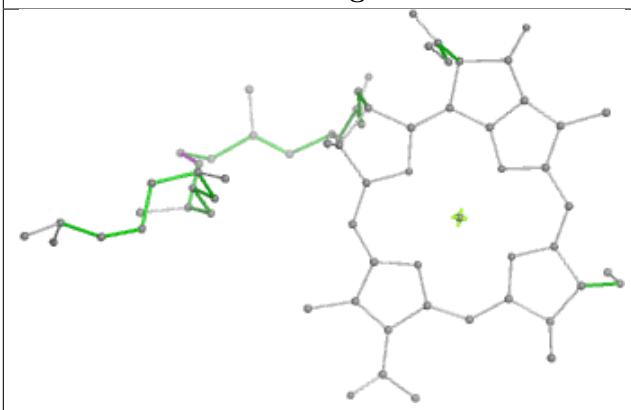
Ligand BCL M 408



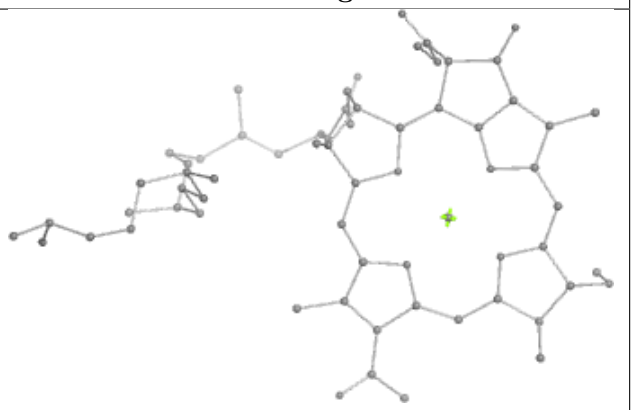
Bond lengths



Bond angles

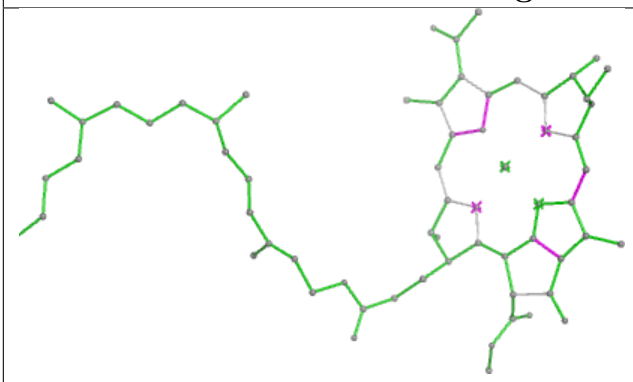


Torsions

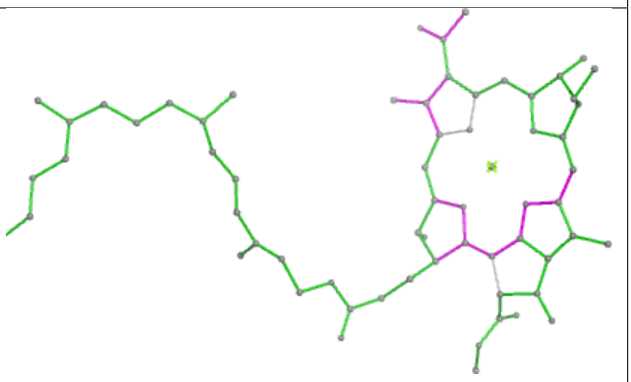


Rings

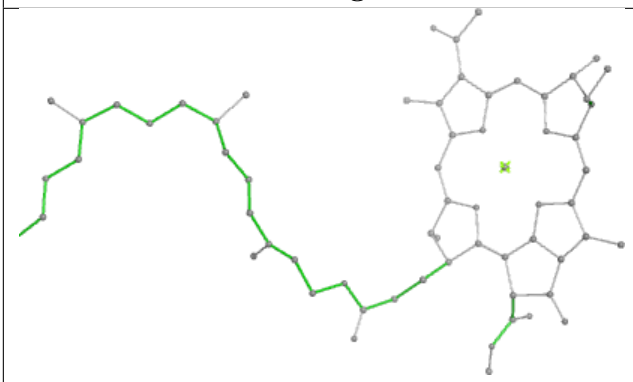
Ligand BCL AJ 101



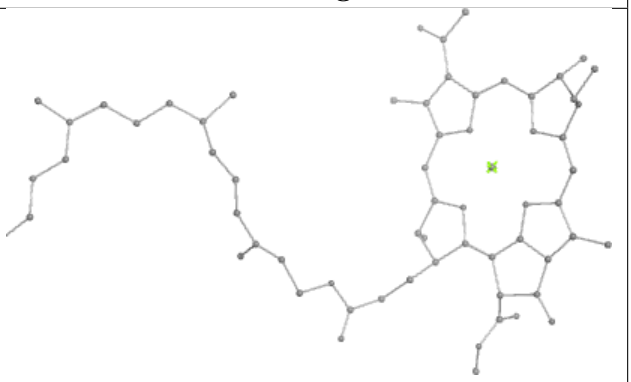
Bond lengths



Bond angles

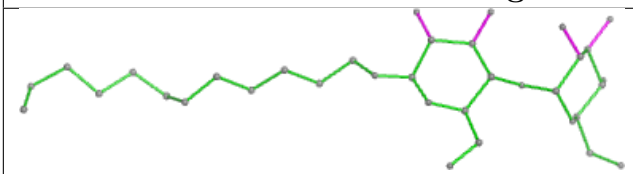


Torsions

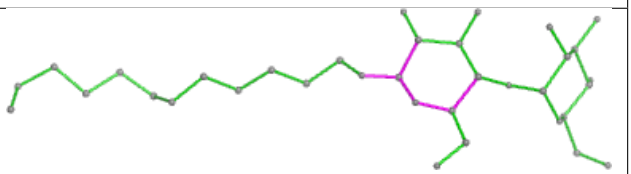


Rings

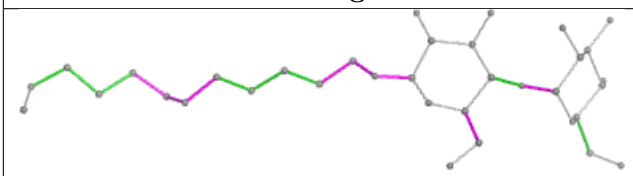
Ligand LMT AX 101



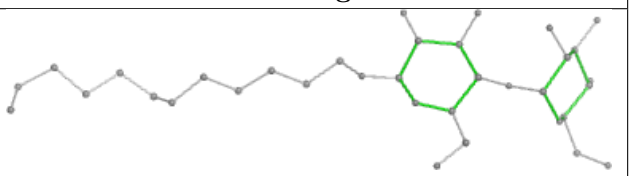
Bond lengths



Bond angles

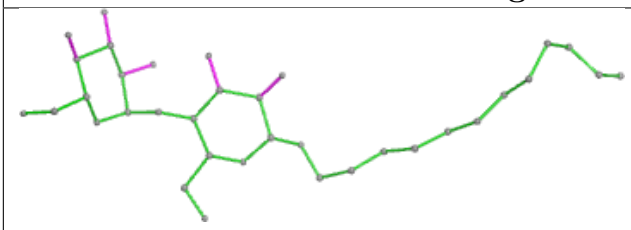


Torsions

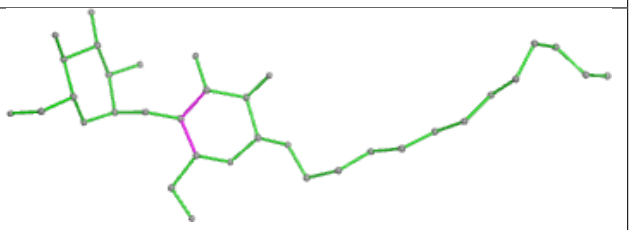


Rings

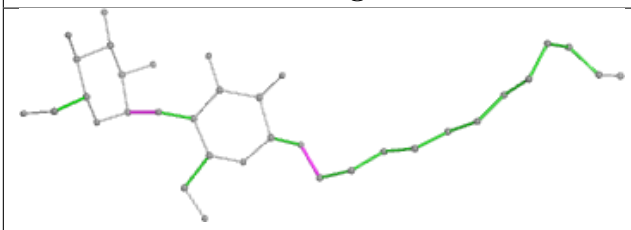
Ligand LMT AP 104



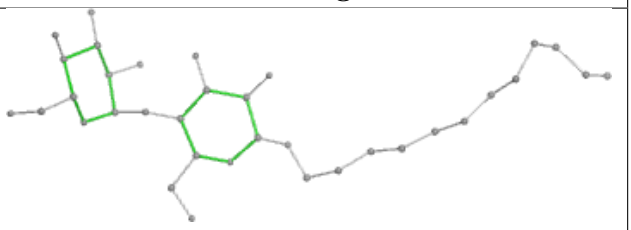
Bond lengths



Bond angles

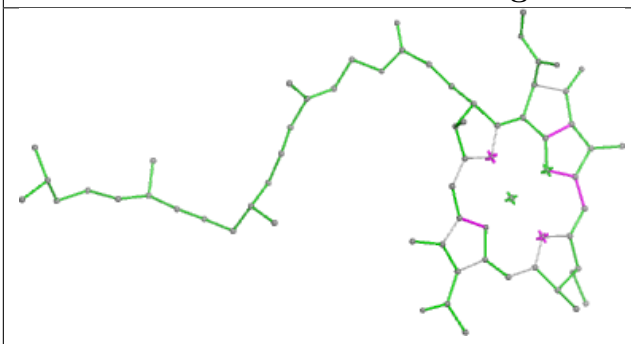


Torsions

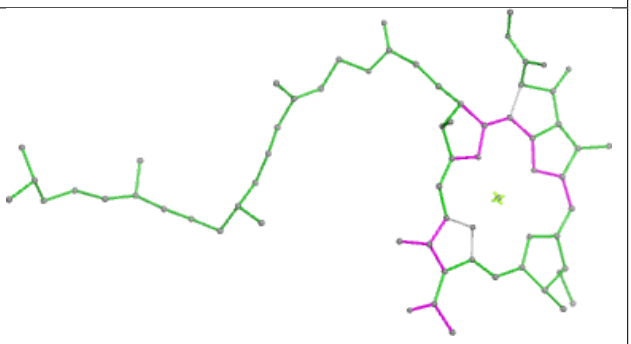


Rings

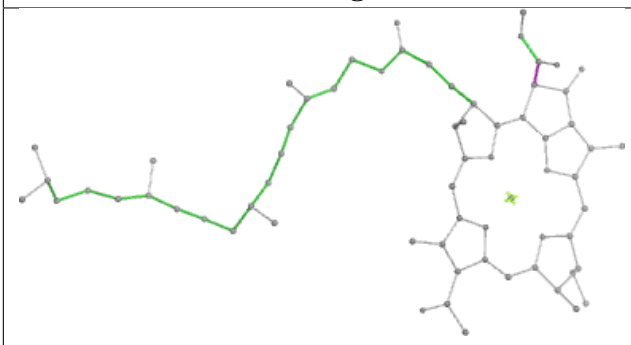
Ligand BCL AN 102



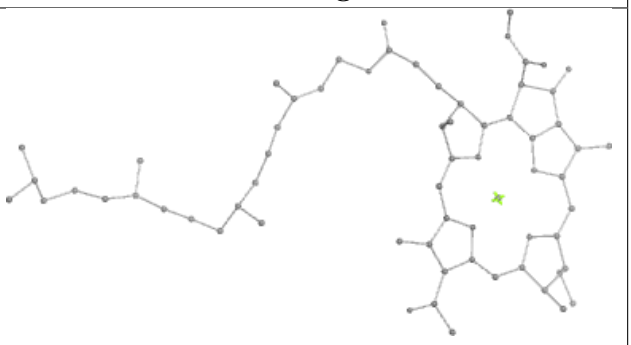
Bond lengths



Bond angles

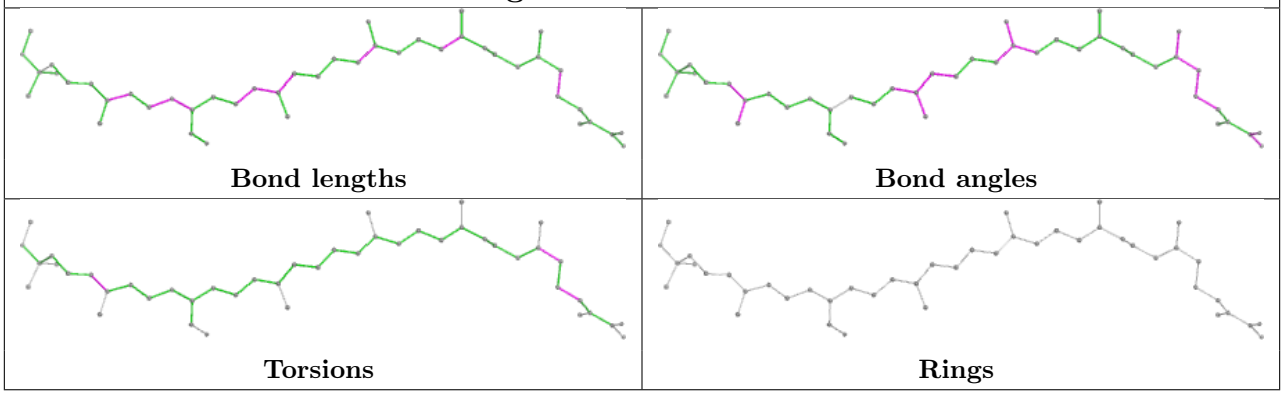


Torsions

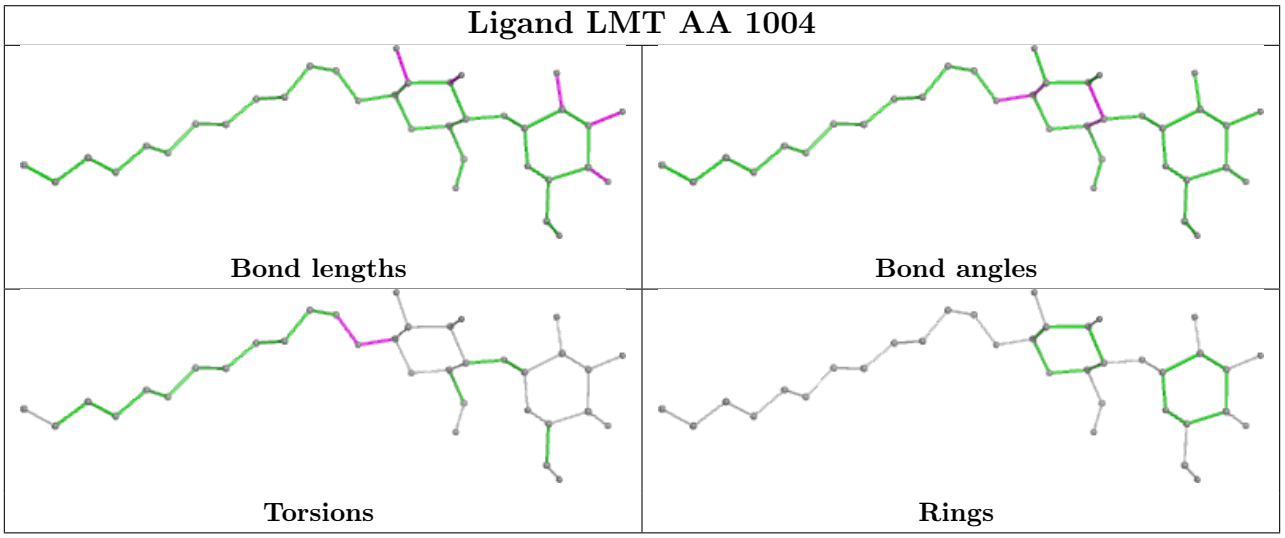


Rings

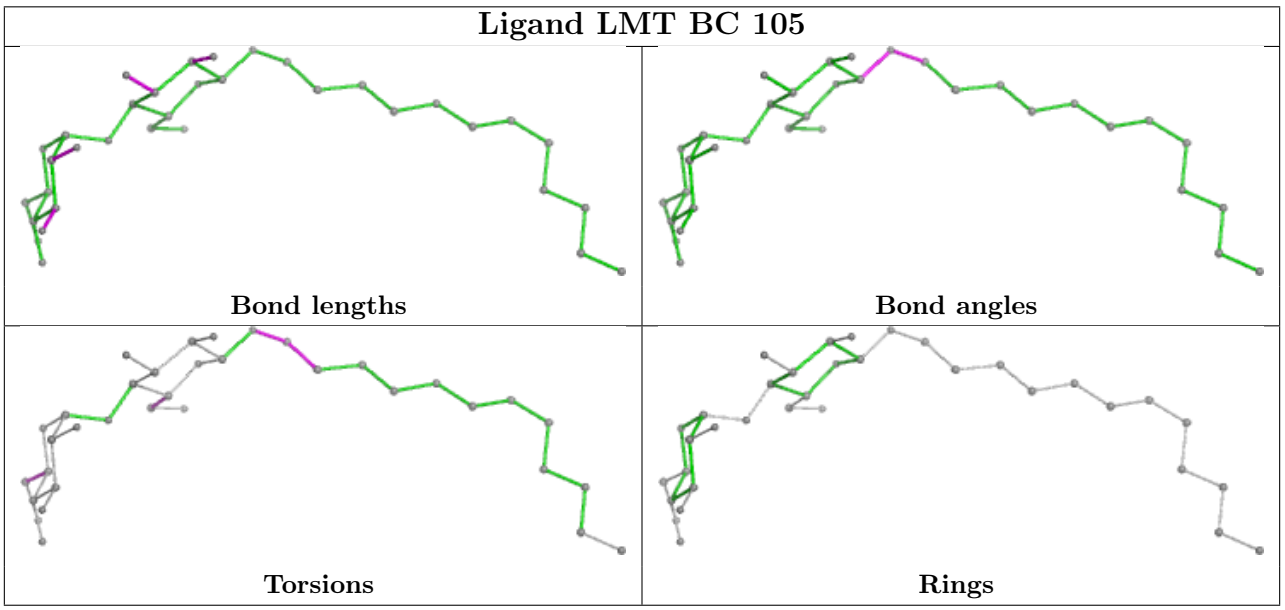
Ligand V7N BL 1001



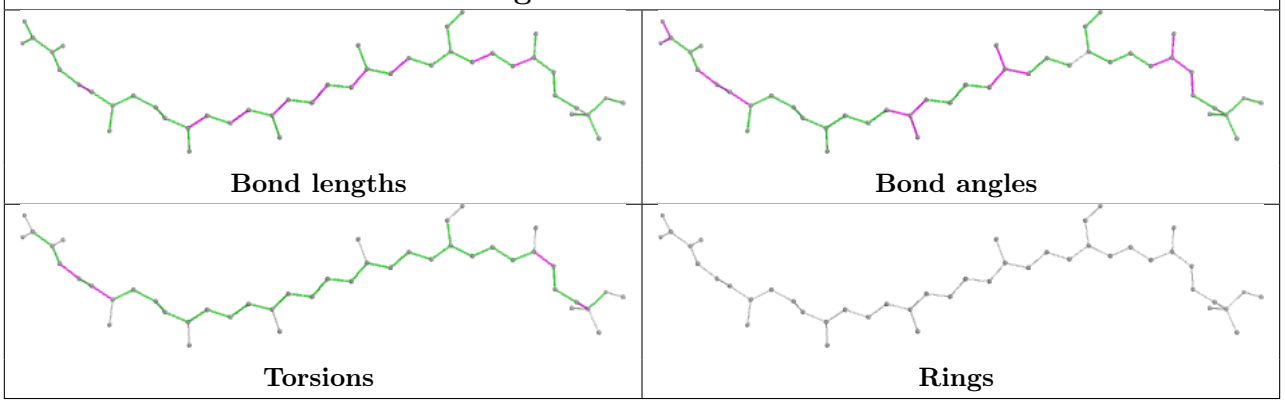
Ligand LMT AA 1004



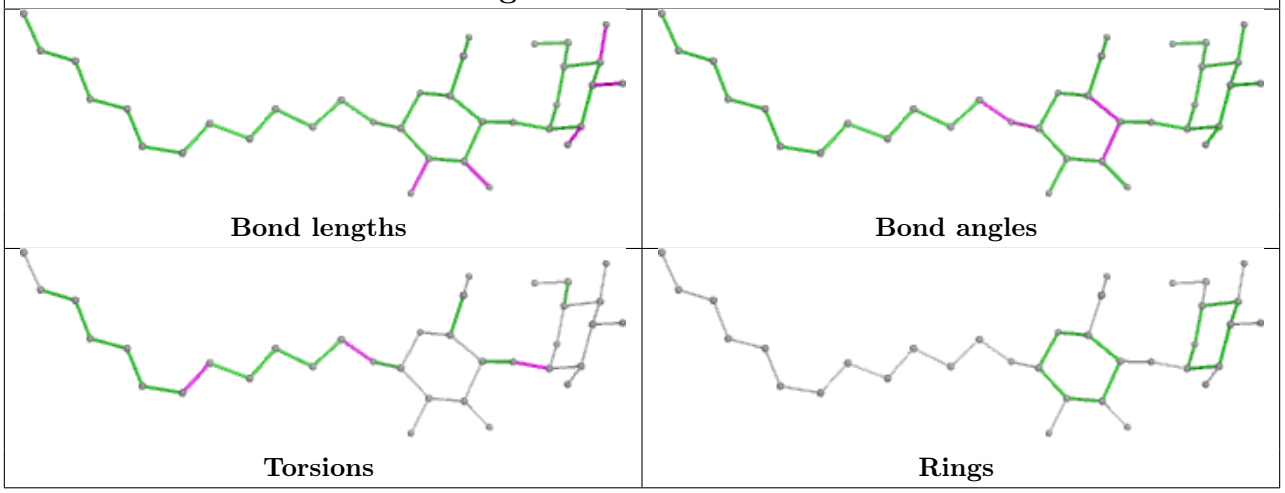
Ligand LMT BC 105



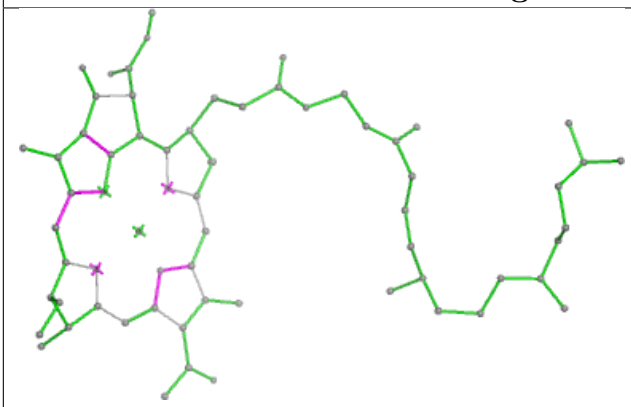
Ligand V7N bm 101



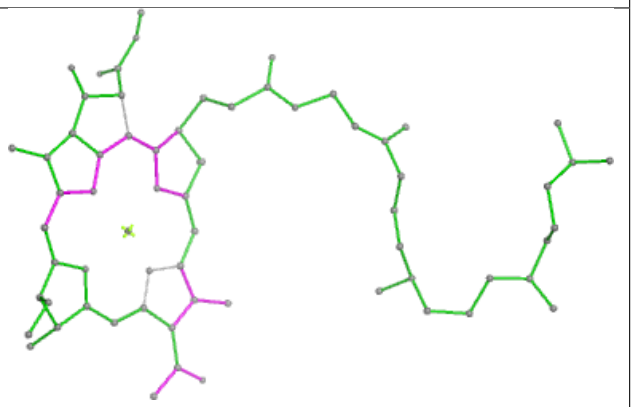
Ligand LMT BH 1002



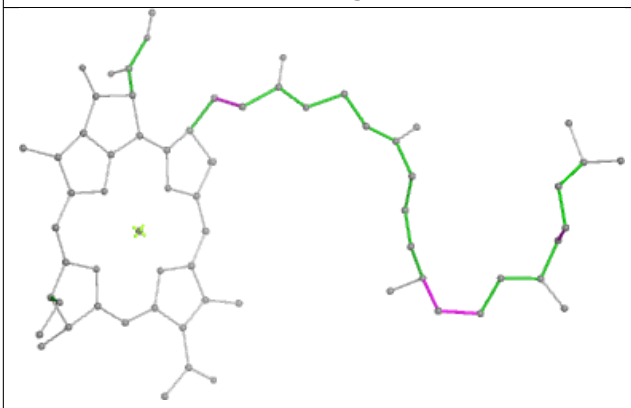
Ligand BCL AX 103



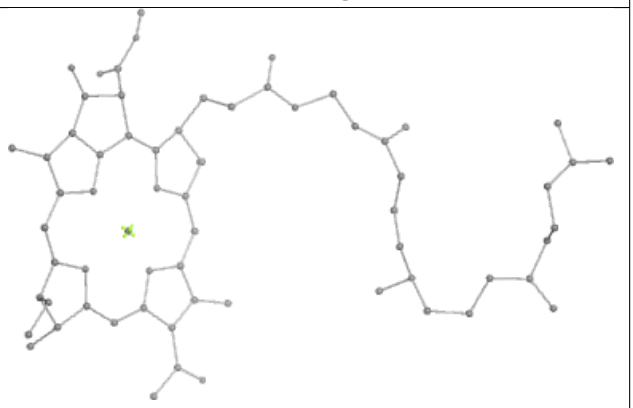
Bond lengths



Bond angles

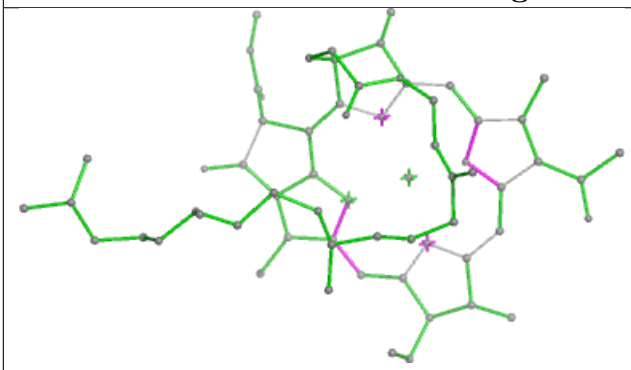


Torsions

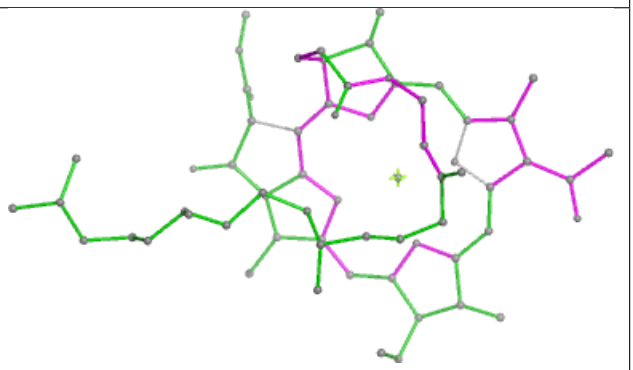


Rings

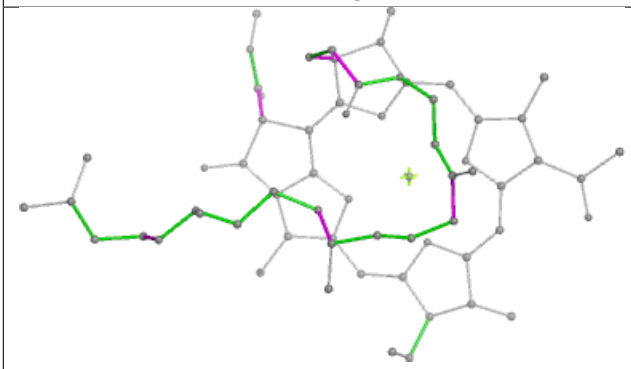
Ligand BCL AX 102



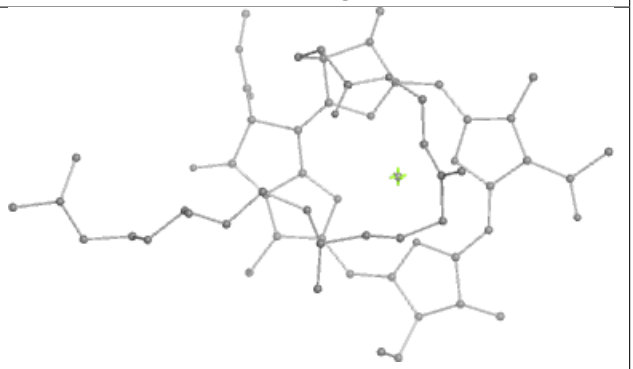
Bond lengths



Bond angles

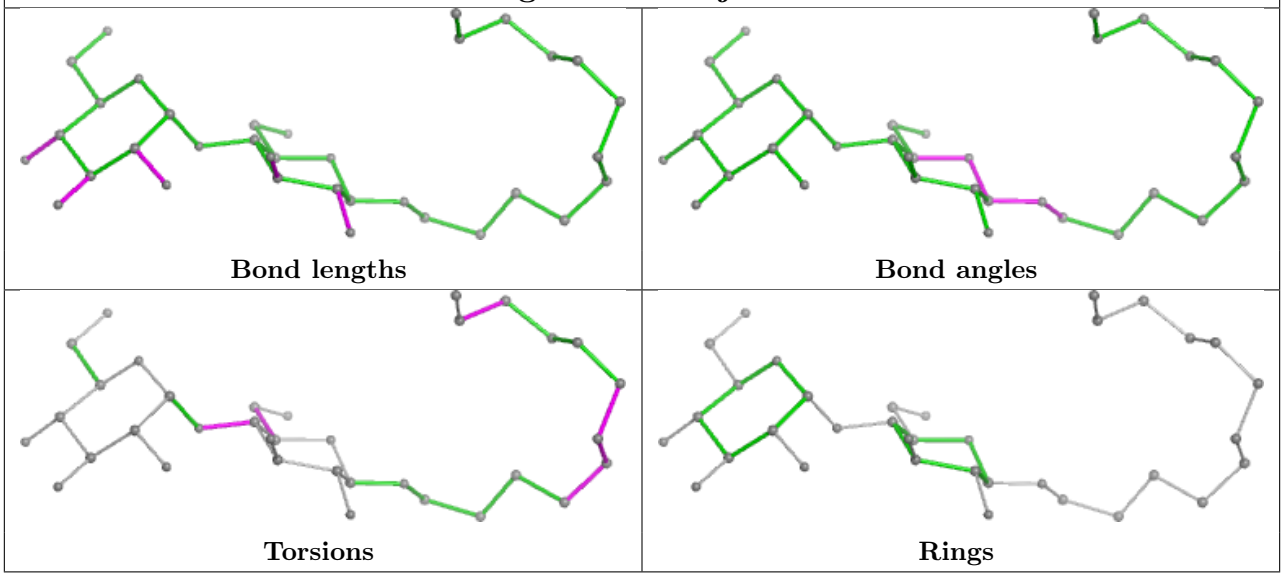


Torsions

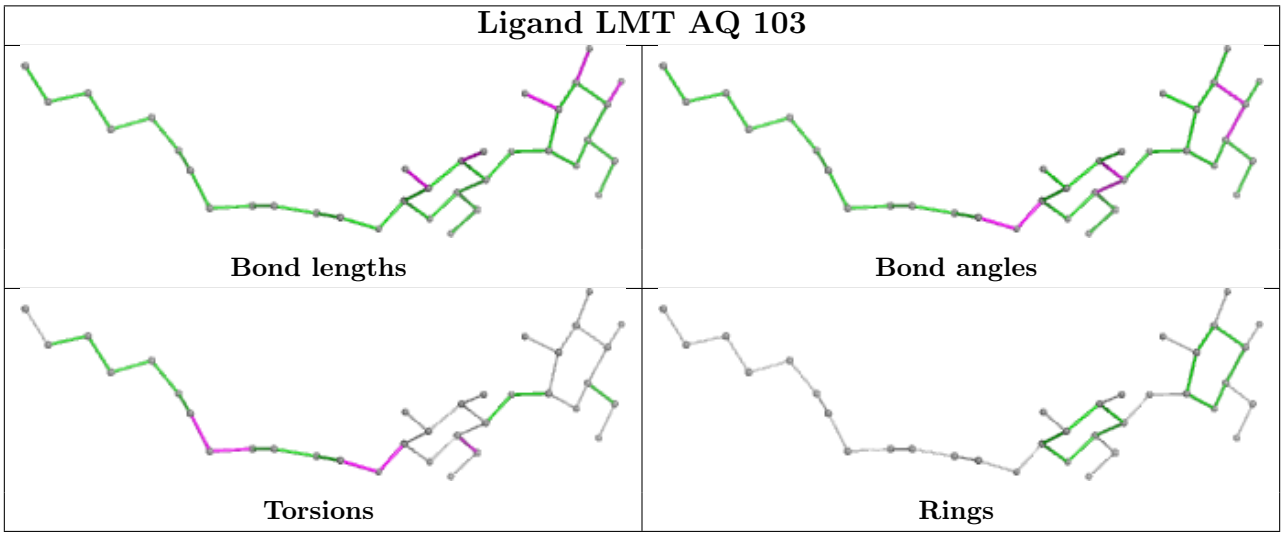


Rings

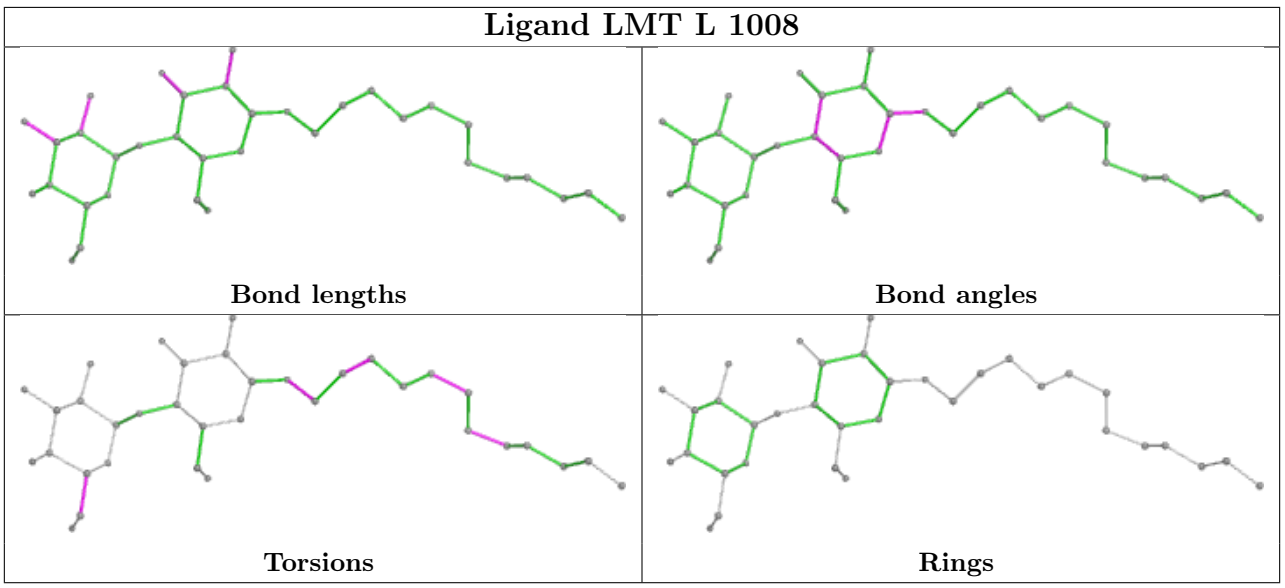
Ligand LMT bj 102



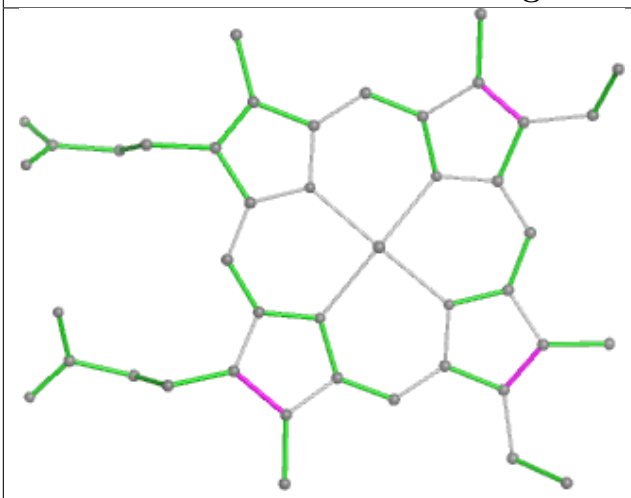
Ligand LMT AQ 103



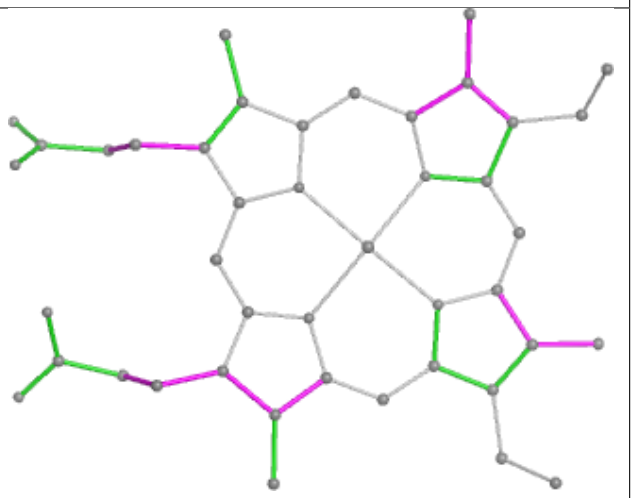
Ligand LMT L 1008



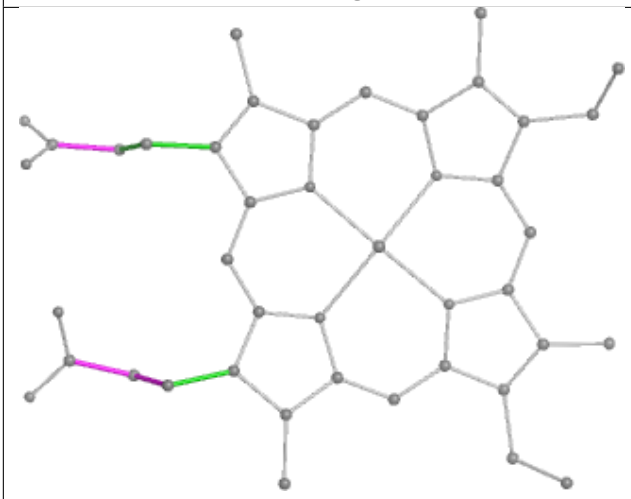
Ligand HEC C 403



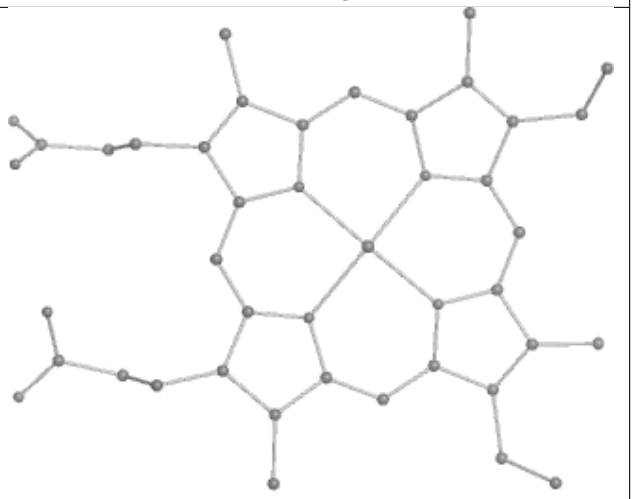
Bond lengths



Bond angles

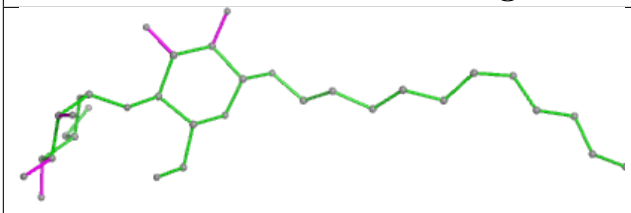


Torsions

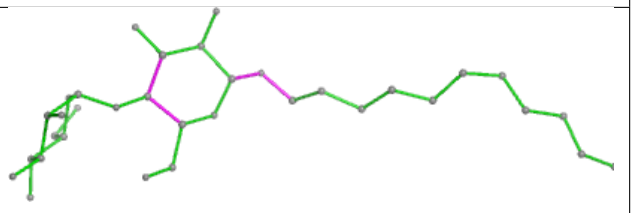


Rings

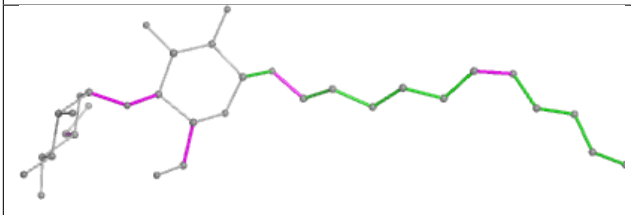
Ligand LMT BX 1003



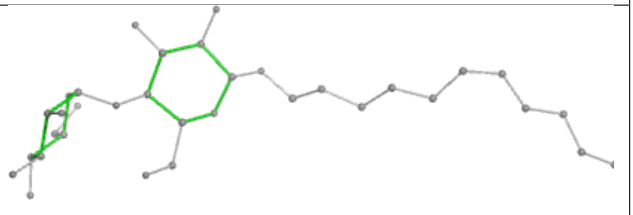
Bond lengths



Bond angles

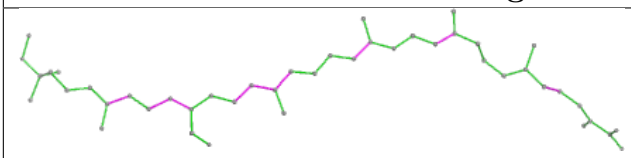


Torsions

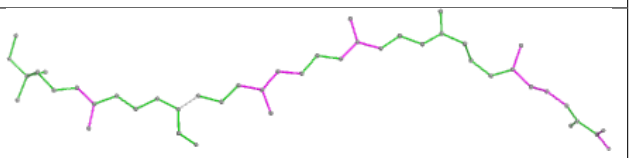


Rings

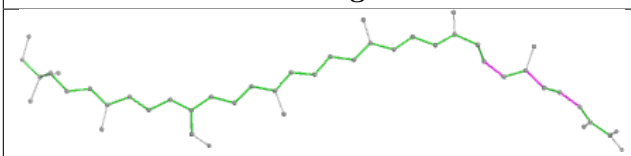
Ligand V7N BJ 1001



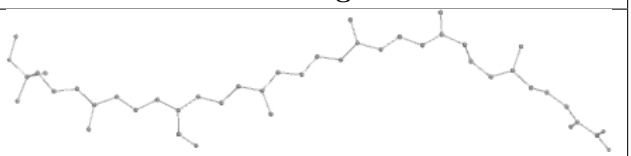
Bond lengths



Bond angles

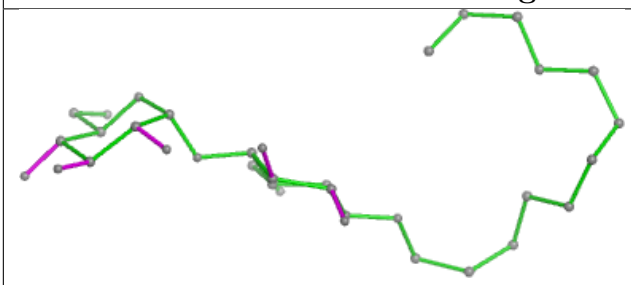


Torsions

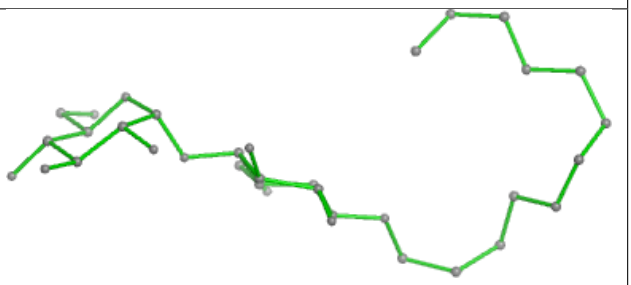


Rings

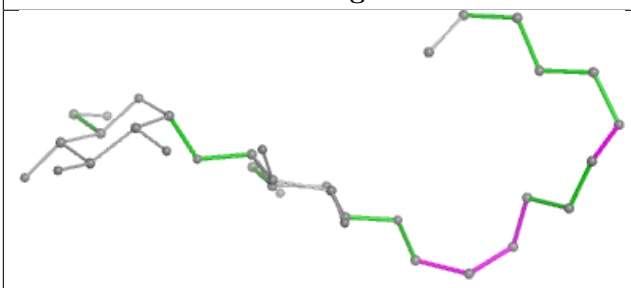
Ligand LMT bf 102



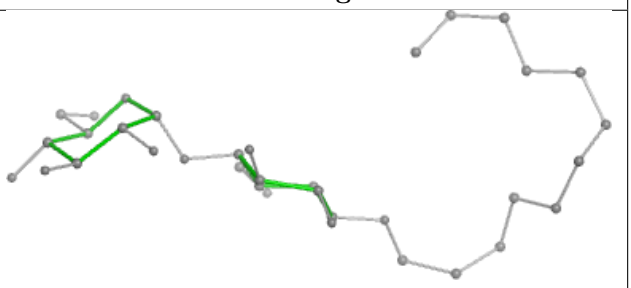
Bond lengths



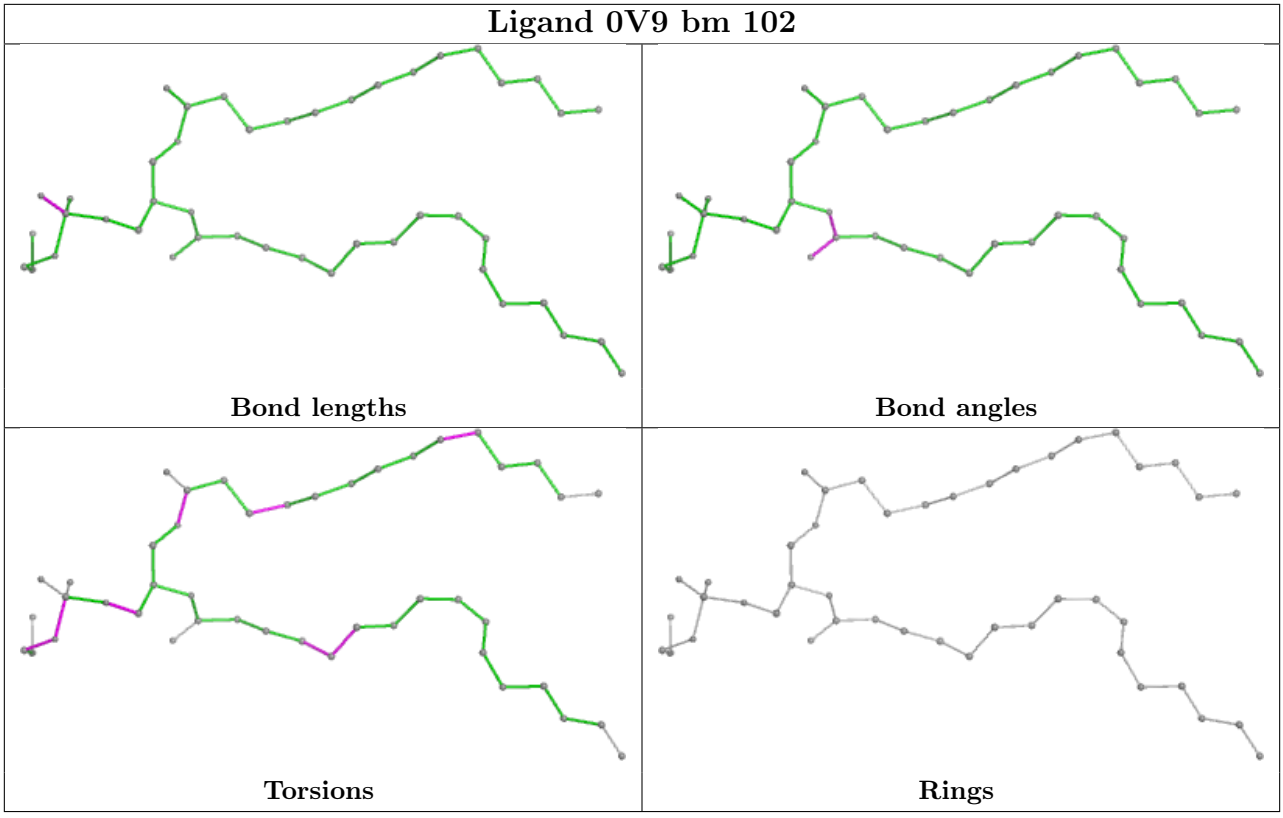
Bond angles



Torsions



Rings



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

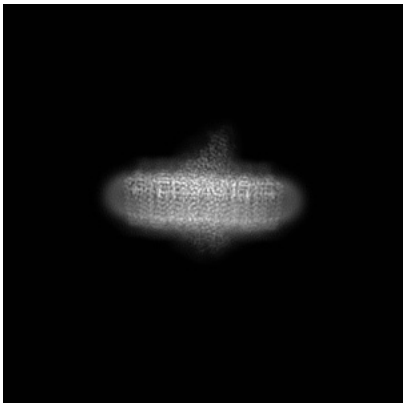
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-12680. These allow visual inspection of the internal detail of the map and identification of artifacts.

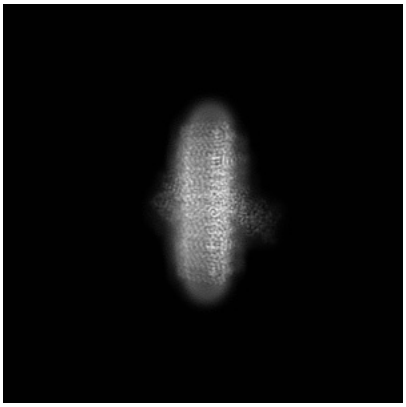
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

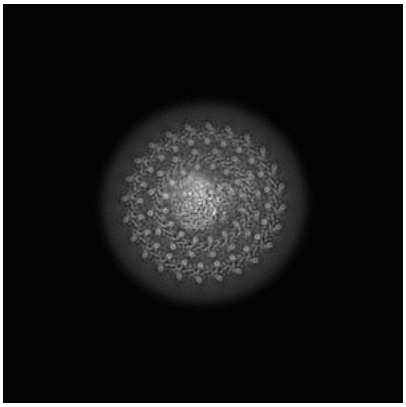
6.1.1 Primary map



X



Y

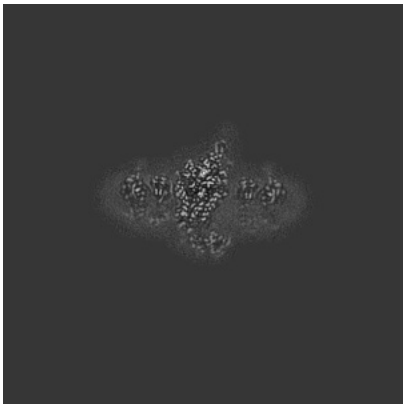


Z

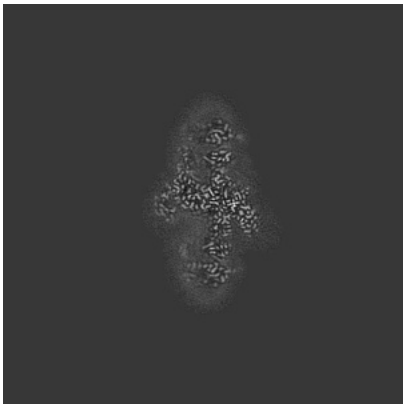
The images above show the map projected in three orthogonal directions.

6.2 Central slices

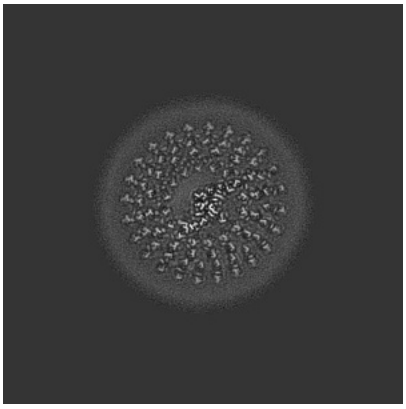
6.2.1 Primary map



X Index: 200



Y Index: 200

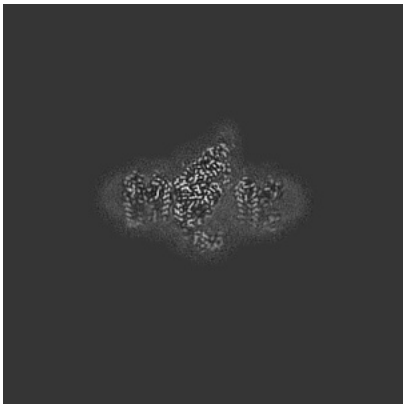


Z Index: 200

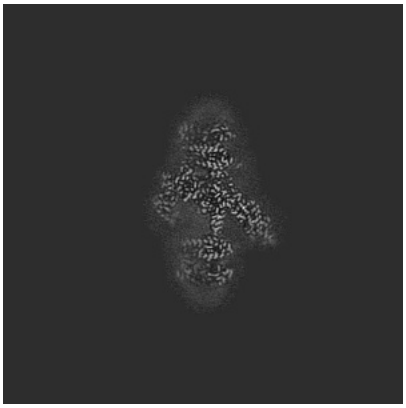
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

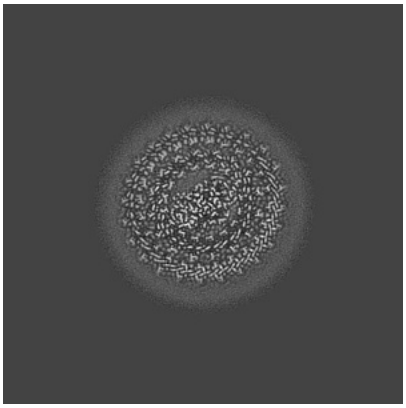
6.3.1 Primary map



X Index: 193



Y Index: 209

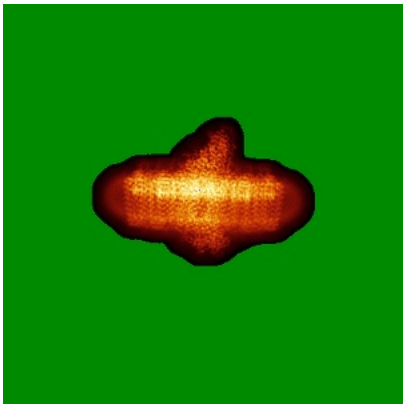


Z Index: 214

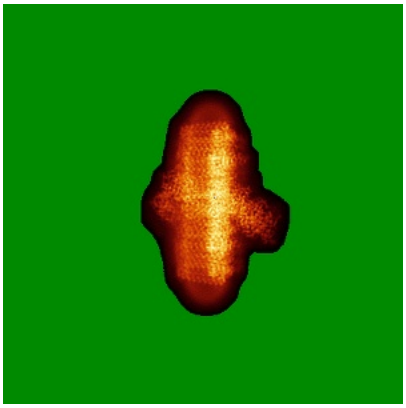
The images above show the largest variance slices of the map in three orthogonal directions.

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

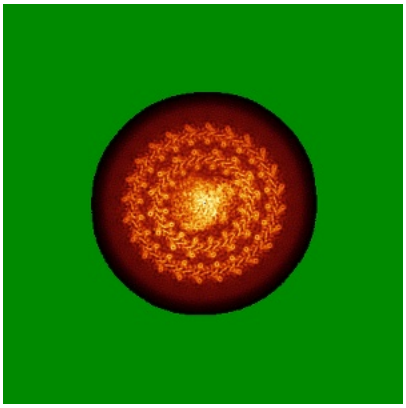
6.4.1 Primary map



X



Y

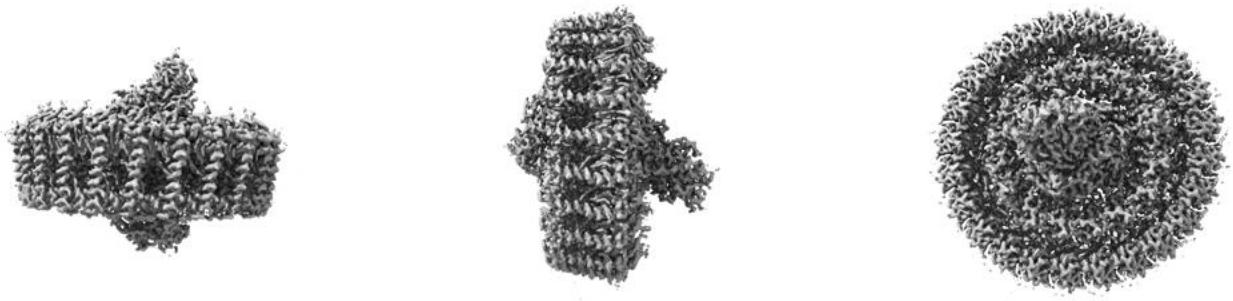


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.0348. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

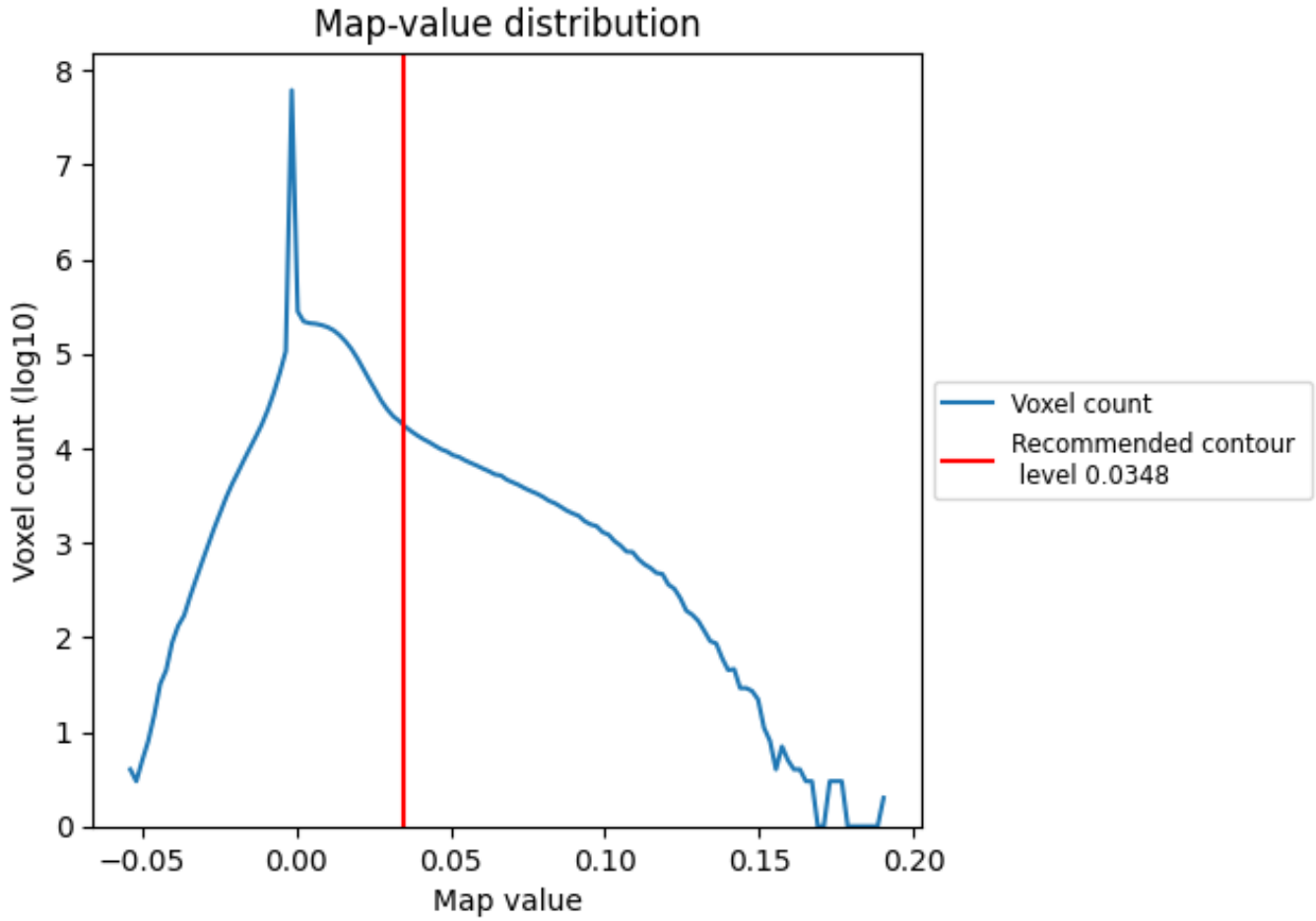
6.6 Mask visualisation (i)

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

7 Map analysis

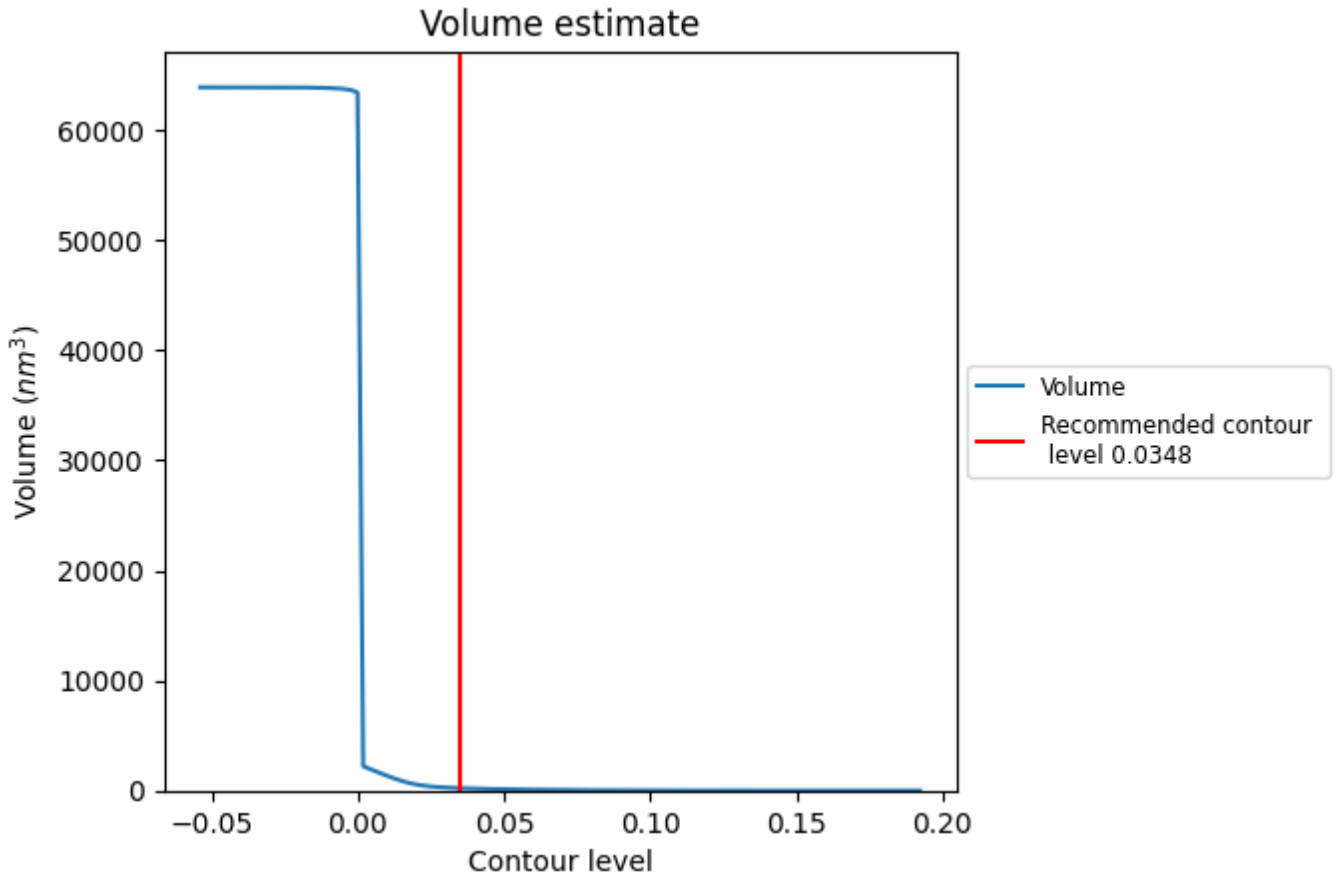
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

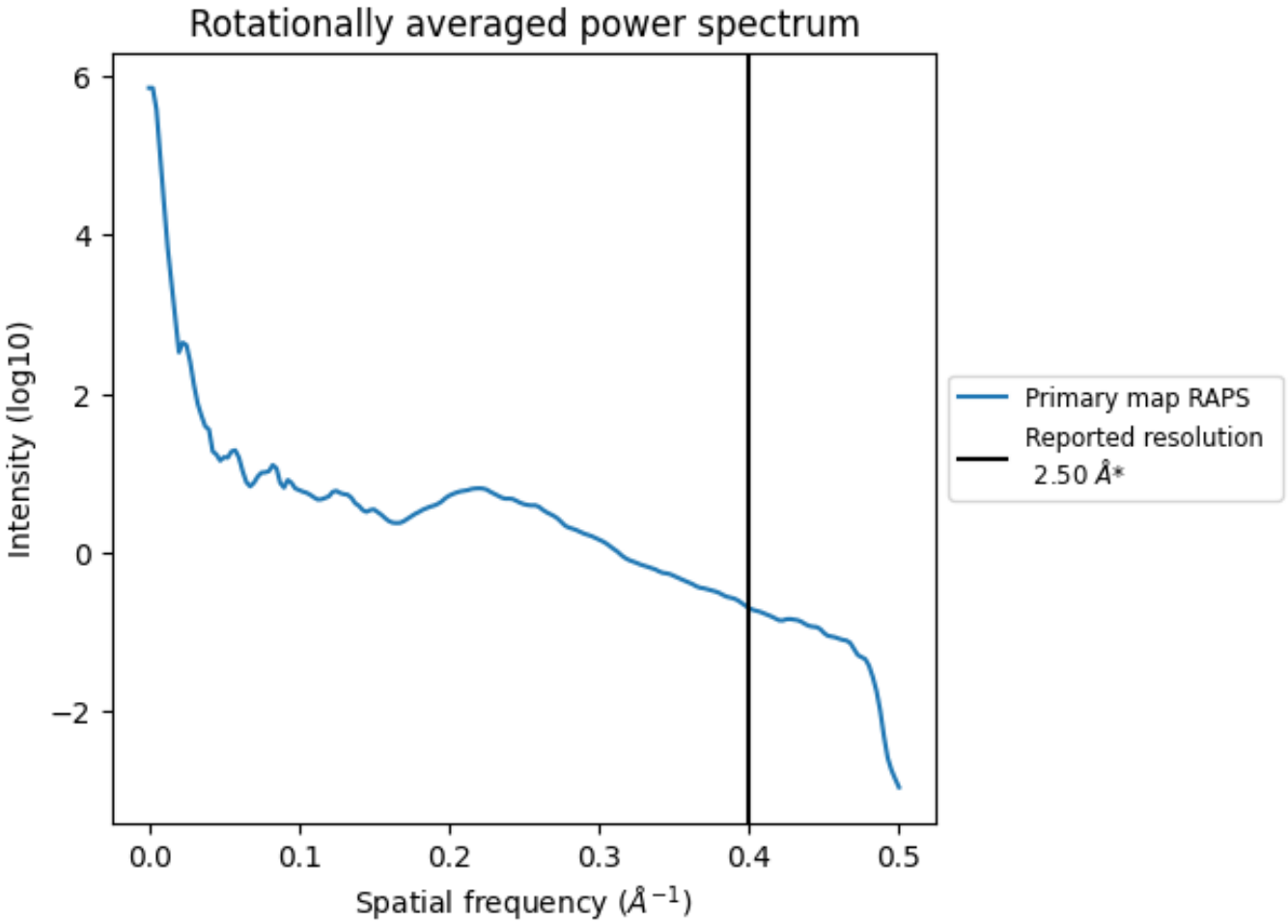
7.2 Volume estimate



The volume at the recommended contour level is 219 nm^3; this corresponds to an approximate mass of 198 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)

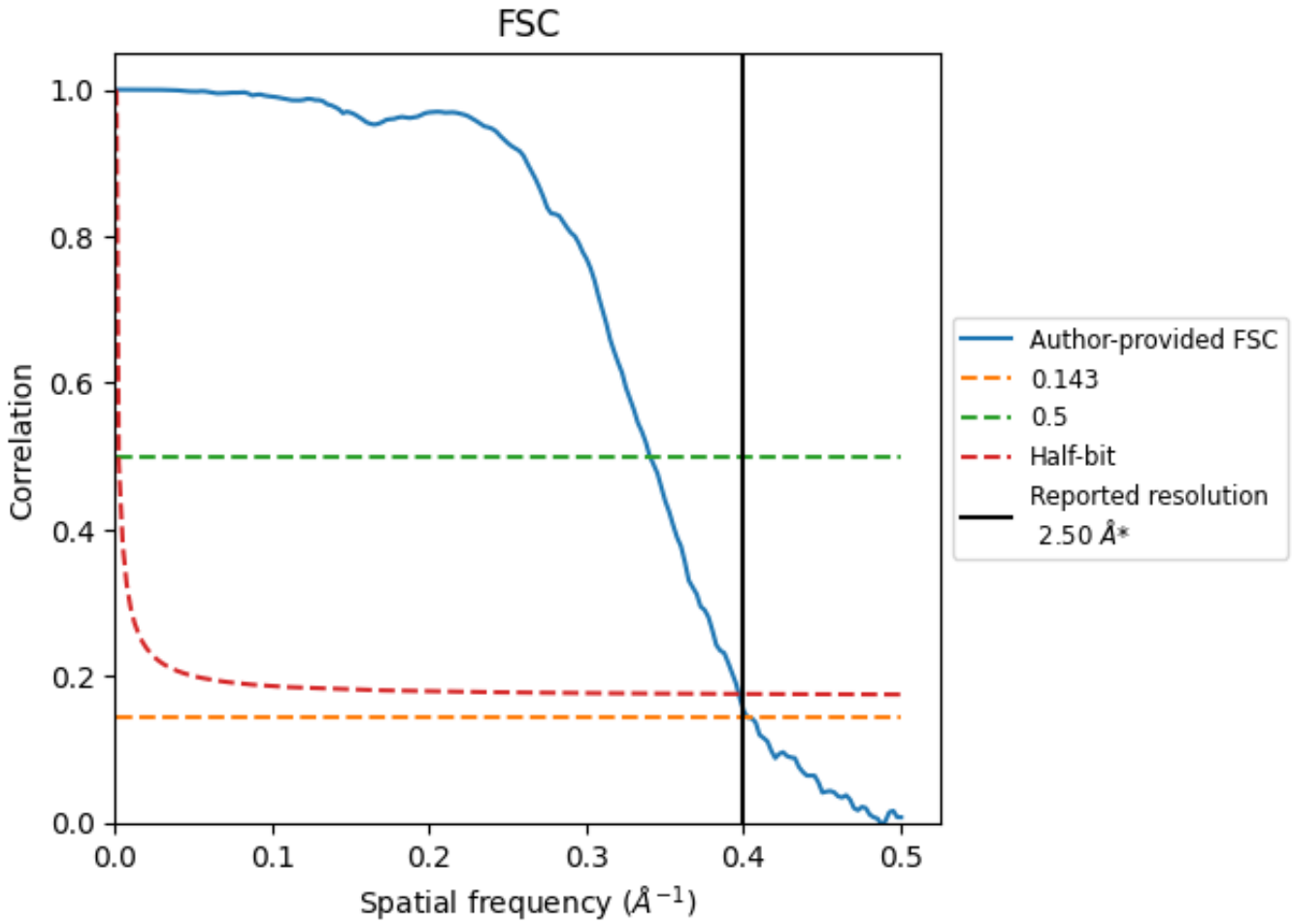


*Reported resolution corresponds to spatial frequency of 0.400 Å^{-1}

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 0.400 Å^{-1}

8.2 Resolution estimates (i)

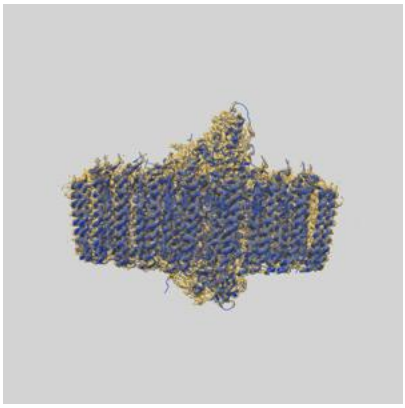
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.50	-	-
Author-provided FSC curve	2.48	2.94	2.52
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

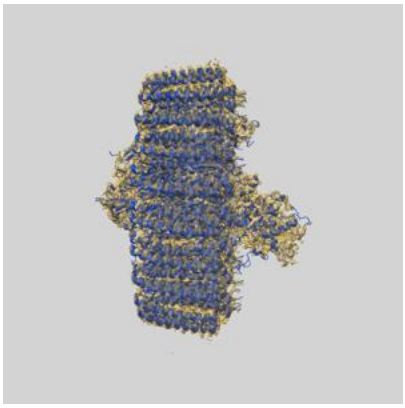
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-12680 and PDB model 7O0V. Per-residue inclusion information can be found in section 3 on page 39.

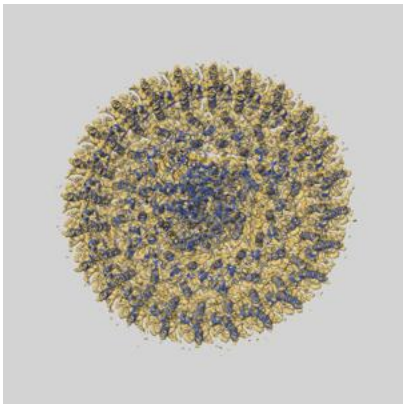
9.1 Map-model overlay



X



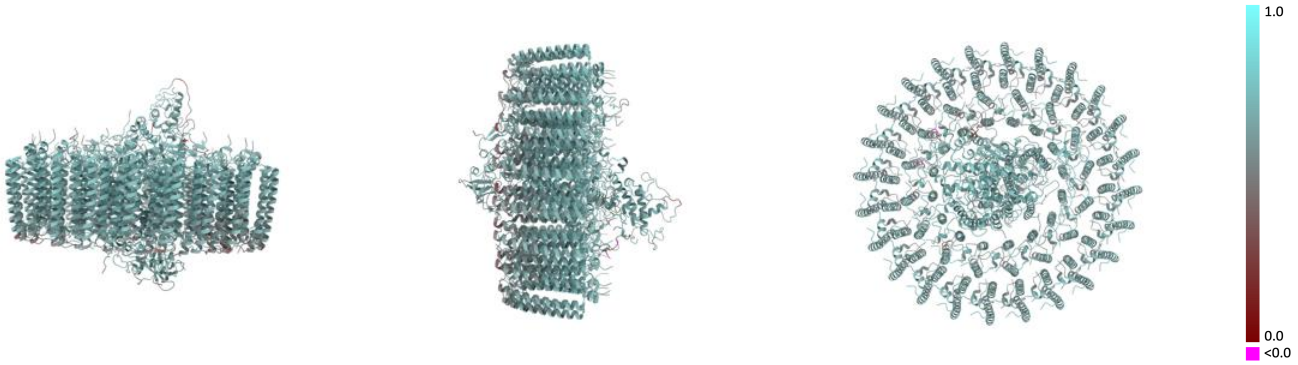
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0348 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.

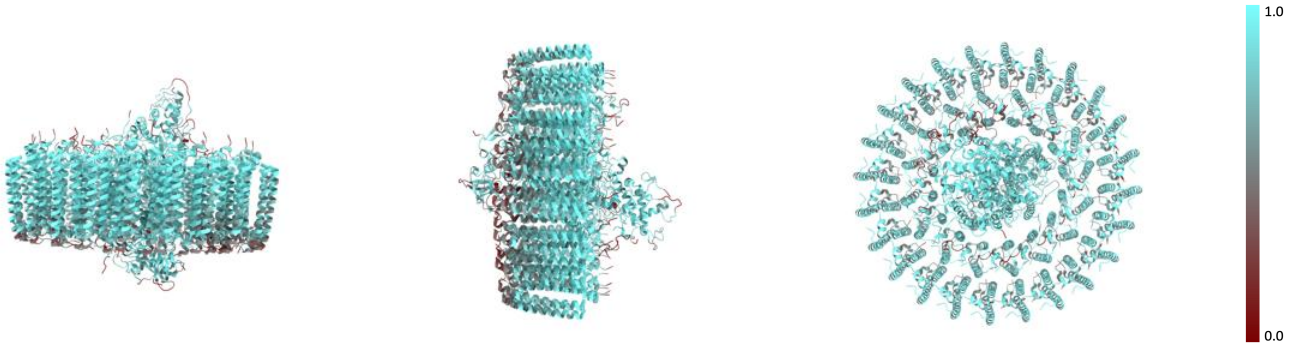
9.2 Q-score mapped to coordinate model (i)



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.

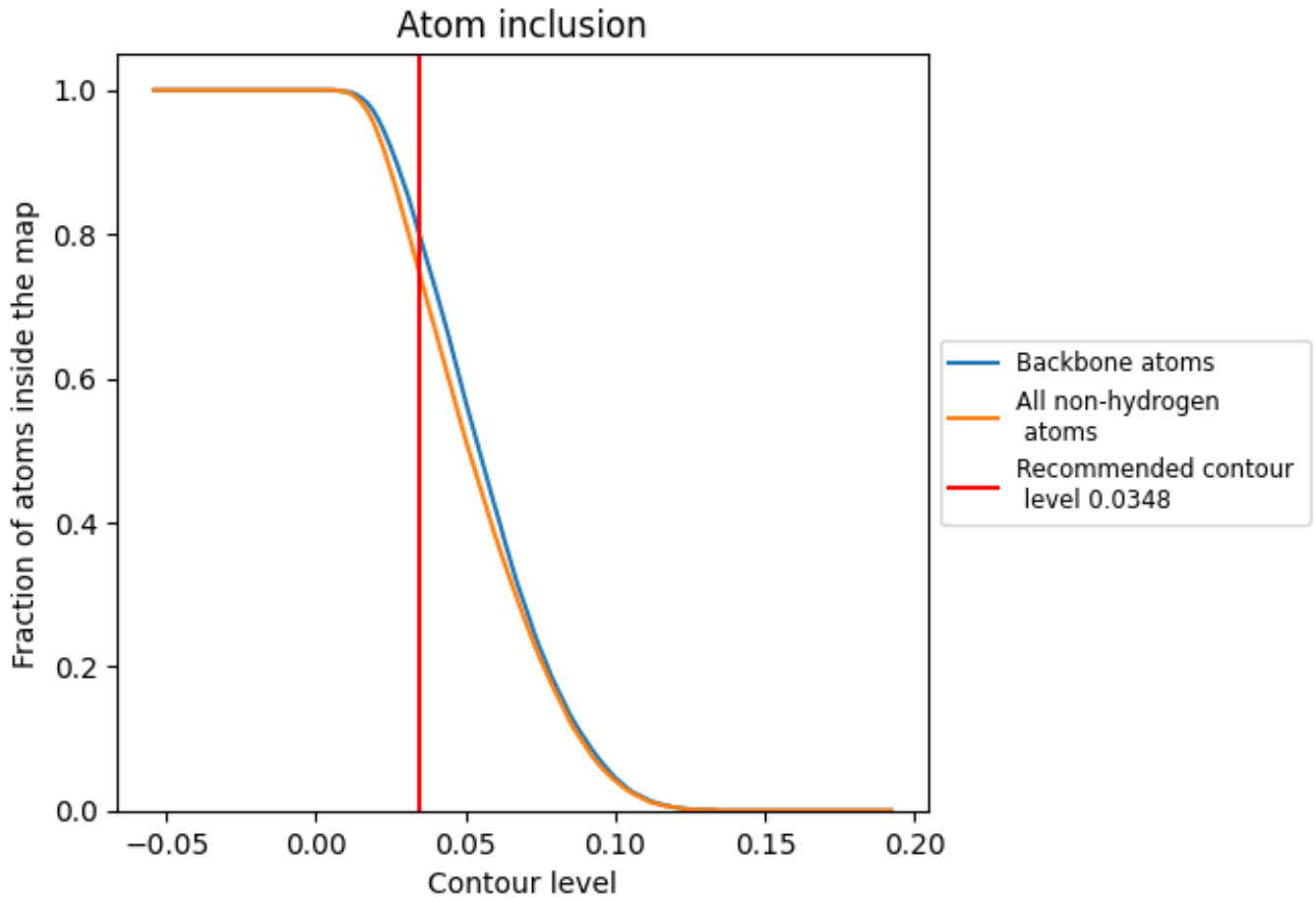
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.0348).

9.4 Atom inclusion (i)



At the recommended contour level, 80% of all backbone atoms, 74% 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 (0.0348) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7430	0.6200
AA	0.7230	0.6150
AB	0.7170	0.6040
AC	0.5990	0.5800
AD	0.7860	0.6170
AE	0.6220	0.5890
AF	0.7400	0.6050
AG	0.7640	0.6210
AH	0.7390	0.6200
AI	0.7180	0.6030
AJ	0.8150	0.6380
AK	0.8010	0.6360
AL	0.6780	0.5990
AM	0.8230	0.6430
AN	0.6830	0.6060
AO	0.8090	0.6280
AP	0.7820	0.6280
AQ	0.7570	0.6270
AR	0.7300	0.6120
AS	0.7340	0.6230
AT	0.8230	0.6390
AU	0.7020	0.6020
AV	0.7300	0.6250
AW	0.7940	0.6240
AX	0.6650	0.5980
BA	0.6340	0.5780
BB	0.6040	0.5650
BC	0.5730	0.5530
BD	0.6160	0.5740
BE	0.6370	0.5800
BF	0.6580	0.5810
BG	0.6600	0.5800
BH	0.6700	0.5930
BI	0.6500	0.5940
BJ	0.7220	0.6150

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Chain	Atom inclusion	Q-score
BK	0.6920	0.6040
BL	0.6450	0.5830
BM	0.6930	0.6030
BN	0.6500	0.5700
BO	0.6690	0.6010
BP	0.7140	0.6000
BQ	0.6610	0.5810
BR	0.6510	0.5920
BS	0.6680	0.6050
BT	0.6460	0.5780
BU	0.6500	0.5840
BV	0.6480	0.5810
BW	0.6310	0.5720
BX	0.6140	0.5720
C	0.8820	0.6630
C1	0.8260	0.6580
CG	0.3810	0.5410
H1	0.7240	0.6280
H2	0.7200	0.6080
L	0.9010	0.6790
M	0.8970	0.6830
MG	0.9520	0.6170
aa	0.6690	0.6100
ab	0.7090	0.6210
ac	0.7750	0.6250
ad	0.8850	0.6710
ae	0.8320	0.6540
af	0.8030	0.6490
ag	0.7480	0.6240
ah	0.7960	0.6400
ai	0.7250	0.6220
aj	0.7580	0.6230
ak	0.8610	0.6680
al	0.8160	0.6570
am	0.7500	0.6230
an	0.6590	0.5980
ao	0.6430	0.5970
ap	0.6820	0.6010
ba	0.6570	0.5920
bb	0.6870	0.6050
bc	0.7130	0.6110
bd	0.8190	0.6430

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Chain	Atom inclusion	Q-score
be	0.7810	0.6270
bf	0.8240	0.6480
bg	0.7550	0.6200
bh	0.7470	0.6210
bi	0.7510	0.6130
bj	0.8060	0.6370
bk	0.7620	0.6300
bl	0.7150	0.6170
bm	0.7080	0.6000
bn	0.6730	0.6000
bo	0.6440	0.5970
bp	0.7050	0.6030