



Full wwPDB EM Validation Report ⓘ

Mar 25, 2026 – 07:22 PM UTC

PDB ID : 9KQQ / pdb_00009kqq
EMDB ID : EMD-62512
Title : PSI-LHCI supercomplex binding with 8 Lhcas from *C. subellipsoidea*
Authors : Tsai, P.-C.; Kato, K.; Shen, J.-R.; Akita, F.
Deposited on : 2024-11-26
Resolution : 2.06 Å (reported)
Based on initial model : 6zzx

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.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

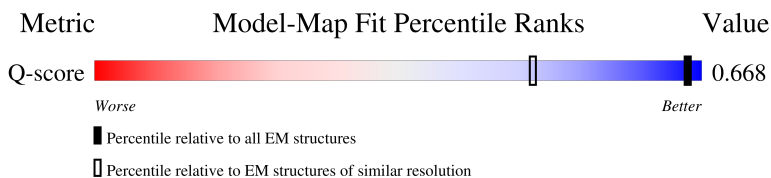
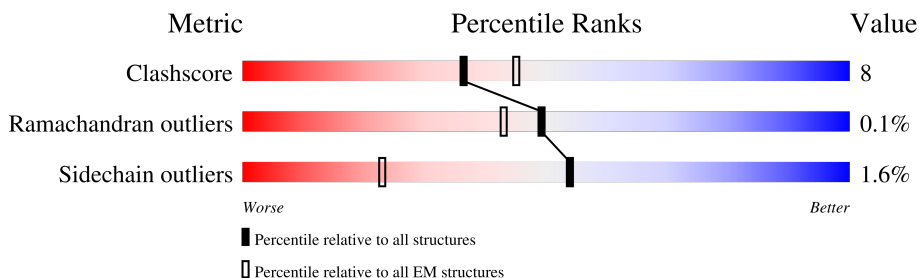
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.06 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	1895 (1.56 - 2.56)

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 $\leq 5\%$. 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	A	751	
2	B	734	
3	C	81	
4	D	192	

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Mol	Chain	Length	Quality of chain
5	E	71	
6	F	245	
7	G	138	
8	I	36	
9	J	41	
10	K	131	
11	M	31	
12	a	229	
12	b	229	
13	3	246	
14	4	246	
15	5	274	
16	6	272	
17	7	259	
18	8	255	
19	L	210	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
26	CL0	A	815	X	-	-	-
27	CHL	3	308	X	-	-	-
27	CHL	3	309	X	-	-	-
27	CHL	3	310	X	-	-	-
27	CHL	3	311	X	-	-	-
27	CHL	3	312	X	-	-	-
27	CHL	3	313	X	-	-	-
27	CHL	3	314	X	-	-	-
27	CHL	3	315	X	-	-	-
27	CHL	3	316	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
27	CHL	3	317	X	-	-	-
27	CHL	3	318	X	-	-	-
27	CHL	3	319	X	-	-	-
27	CHL	3	320	X	-	-	-
27	CHL	3	321	X	-	-	-
27	CHL	4	304	X	-	-	-
27	CHL	4	305	X	-	-	-
27	CHL	4	306	X	-	-	-
27	CHL	4	307	X	-	-	-
27	CHL	4	308	X	-	-	-
27	CHL	4	309	X	-	-	-
27	CHL	4	310	X	-	-	-
27	CHL	4	311	X	-	-	-
27	CHL	4	312	X	-	-	-
27	CHL	4	313	X	-	-	-
27	CHL	4	314	X	-	-	-
27	CHL	4	315	X	-	-	-
27	CHL	4	316	X	-	-	-
27	CHL	4	317	X	-	-	-
27	CHL	4	318	X	-	-	-
27	CHL	4	319	X	-	-	-
27	CHL	4	320	X	-	-	-
27	CHL	5	307	X	-	-	-
27	CHL	5	308	X	-	-	-
27	CHL	5	309	X	-	-	-
27	CHL	5	310	X	-	-	-
27	CHL	5	311	X	-	-	-
27	CHL	5	312	X	-	-	-
27	CHL	5	313	X	-	-	-
27	CHL	5	314	X	-	-	-
27	CHL	5	315	X	-	-	-
27	CHL	5	316	X	-	-	-
27	CHL	5	317	X	-	-	-
27	CHL	5	318	X	-	-	-
27	CHL	5	319	X	-	-	-
27	CHL	5	320	X	-	-	-
27	CHL	5	321	X	-	-	-
27	CHL	5	322	X	-	-	-
27	CHL	5	323	X	-	-	-
27	CHL	5	325	X	-	-	-
27	CHL	6	305	X	-	-	-
27	CHL	6	306	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
27	CHL	6	307	X	-	-	-
27	CHL	6	308	X	-	-	-
27	CHL	6	309	X	-	-	-
27	CHL	6	310	X	-	-	-
27	CHL	6	311	X	-	-	-
27	CHL	6	312	X	-	-	-
27	CHL	6	313	X	-	-	-
27	CHL	6	314	X	-	-	-
27	CHL	6	315	X	-	-	-
27	CHL	6	316	X	-	-	-
27	CHL	6	317	X	-	-	-
27	CHL	6	318	X	-	-	-
27	CHL	6	319	X	-	-	-
27	CHL	6	320	X	-	-	-
27	CHL	7	311	X	-	-	-
27	CHL	7	312	X	-	-	-
27	CHL	7	313	X	-	-	-
27	CHL	7	314	X	-	-	-
27	CHL	7	315	X	-	-	-
27	CHL	7	316	X	-	-	-
27	CHL	7	317	X	-	-	-
27	CHL	7	318	X	-	-	-
27	CHL	7	319	X	-	-	-
27	CHL	7	320	X	-	-	-
27	CHL	7	321	X	-	-	-
27	CHL	7	322	X	-	-	-
27	CHL	7	323	X	-	-	-
27	CHL	7	324	X	-	-	-
27	CHL	8	311	X	-	-	-
27	CHL	8	312	X	-	-	-
27	CHL	8	313	X	-	-	-
27	CHL	8	314	X	-	-	-
27	CHL	8	315	X	-	-	-
27	CHL	8	316	X	-	-	-
27	CHL	8	317	X	-	-	-
27	CHL	8	318	X	-	-	-
27	CHL	8	319	X	-	-	-
27	CHL	8	320	X	-	-	-
27	CHL	8	321	X	-	-	-
27	CHL	8	322	X	-	-	-
27	CHL	8	323	X	-	-	-
27	CHL	8	324	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
27	CHL	8	325	X	-	-	-
27	CHL	8	326	X	-	-	-
27	CHL	A	816	X	-	-	-
27	CHL	A	817	X	-	-	-
27	CHL	A	818	X	-	-	-
27	CHL	A	819	X	-	-	-
27	CHL	A	820	X	-	-	-
27	CHL	A	821	X	-	-	-
27	CHL	A	822	X	-	-	-
27	CHL	A	823	X	-	-	-
27	CHL	A	824	X	-	-	-
27	CHL	A	825	X	-	-	-
27	CHL	A	826	X	-	-	-
27	CHL	A	827	X	-	-	-
27	CHL	A	828	X	-	-	-
27	CHL	A	829	X	-	-	-
27	CHL	A	830	X	-	-	-
27	CHL	A	831	X	-	-	-
27	CHL	A	832	X	-	-	-
27	CHL	A	833	X	-	-	-
27	CHL	A	834	X	-	-	-
27	CHL	A	835	X	-	-	-
27	CHL	A	836	X	-	-	-
27	CHL	A	837	X	-	-	-
27	CHL	A	838	X	-	-	-
27	CHL	A	839	X	-	-	-
27	CHL	A	840	X	-	-	-
27	CHL	A	841	X	-	-	-
27	CHL	A	842	X	-	-	-
27	CHL	A	843	X	-	-	-
27	CHL	A	844	X	-	-	-
27	CHL	A	845	X	-	-	-
27	CHL	A	846	X	-	-	-
27	CHL	A	847	X	-	-	-
27	CHL	A	848	X	-	-	-
27	CHL	A	849	X	-	-	-
27	CHL	A	850	X	-	-	-
27	CHL	A	851	X	-	-	-
27	CHL	A	852	X	-	-	-
27	CHL	A	853	X	-	-	-
27	CHL	A	854	X	-	-	-
27	CHL	A	855	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
27	CHL	A	856	X	-	-	-
27	CHL	A	857	X	-	-	-
27	CHL	A	858	X	-	-	-
27	CHL	A	859	X	-	-	-
27	CHL	B	811	X	-	-	-
27	CHL	B	812	X	-	-	-
27	CHL	B	813	X	-	-	-
27	CHL	B	814	X	-	-	-
27	CHL	B	815	X	-	-	-
27	CHL	B	816	X	-	-	-
27	CHL	B	817	X	-	-	-
27	CHL	B	818	X	-	-	-
27	CHL	B	819	X	-	-	-
27	CHL	B	820	X	-	-	-
27	CHL	B	821	X	-	-	-
27	CHL	B	822	X	-	-	-
27	CHL	B	823	X	-	-	-
27	CHL	B	824	X	-	-	-
27	CHL	B	825	X	-	-	-
27	CHL	B	826	X	-	-	-
27	CHL	B	827	X	-	-	-
27	CHL	B	828	X	-	-	-
27	CHL	B	829	X	-	-	-
27	CHL	B	830	X	-	-	-
27	CHL	B	831	X	-	-	-
27	CHL	B	832	X	-	-	-
27	CHL	B	833	X	-	-	-
27	CHL	B	834	X	-	-	-
27	CHL	B	835	X	-	-	-
27	CHL	B	836	X	-	-	-
27	CHL	B	837	X	-	-	-
27	CHL	B	838	X	-	-	-
27	CHL	B	839	X	-	-	-
27	CHL	B	840	X	-	-	-
27	CHL	B	841	X	-	-	-
27	CHL	B	842	X	-	-	-
27	CHL	B	843	X	-	-	-
27	CHL	B	844	X	-	-	-
27	CHL	B	845	X	-	-	-
27	CHL	B	846	X	-	-	-
27	CHL	B	847	X	-	-	-
27	CHL	B	848	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
27	CHL	B	849	X	-	-	-
27	CHL	B	850	X	-	-	-
27	CHL	B	851	X	-	-	-
27	CHL	F	308	X	-	-	-
27	CHL	F	309	X	-	-	-
27	CHL	J	106	X	-	-	-
27	CHL	K	204	X	-	-	-
27	CHL	K	205	X	-	-	-
27	CHL	K	206	X	-	-	-
27	CHL	K	207	X	-	-	-
27	CHL	L	303	X	-	-	-
27	CHL	L	304	X	-	-	-
27	CHL	a	307	X	-	-	-
27	CHL	a	308	X	-	-	-
27	CHL	a	309	X	-	-	-
27	CHL	a	310	X	-	-	-
27	CHL	a	311	X	-	-	-
27	CHL	a	312	X	-	-	-
27	CHL	a	313	X	-	-	-
27	CHL	a	314	X	-	-	-
27	CHL	a	315	X	-	-	-
27	CHL	a	316	X	-	-	-
27	CHL	a	317	X	-	-	-
27	CHL	a	318	X	-	-	-
27	CHL	a	319	X	-	-	-
27	CHL	a	320	X	-	-	-
27	CHL	b	304	X	-	-	-
27	CHL	b	305	X	-	-	-
27	CHL	b	306	X	-	-	-
27	CHL	b	307	X	-	-	-
27	CHL	b	308	X	-	X	-
27	CHL	b	309	X	-	-	-
27	CHL	b	310	X	-	-	-
27	CHL	b	311	X	-	-	-
27	CHL	b	312	X	-	-	-
27	CHL	b	313	X	-	-	-
27	CHL	b	314	X	-	-	-
27	CHL	b	315	X	-	-	-
27	CHL	b	316	X	-	-	-
27	CHL	b	317	X	-	-	-
29	LUT	4	301	-	X	-	-
29	LUT	4	302	-	X	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
29	LUT	5	303	-	X	-	-
29	LUT	6	302	-	X	-	-
29	LUT	6	303	-	X	-	-
29	LUT	7	304	-	X	-	-
29	LUT	8	304	-	X	-	-
29	LUT	F	303	-	X	-	-
29	LUT	J	103	-	X	-	-
29	LUT	a	302	-	X	-	-
29	LUT	b	301	-	X	-	-

2 Entry composition

There are 36 unique types of molecules in this entry. The entry contains 46812 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 Photosystem I P700 chlorophyll a apoprotein A1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	741	Total	C	N	O	S	0	0
			5823	3806	994	1005	18		

- Molecule 2 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	732	Total	C	N	O	S	3	0
			5832	3829	989	1001	13		

- Molecule 3 is a protein called Photosystem I iron-sulfur center.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	80	Total	C	N	O	S	0	0
			596	365	103	117	11		

- Molecule 4 is a protein called Photosystem I reaction center subunit II, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	143	Total	C	N	O	S	0	0
			1110	711	193	203	3		

- Molecule 5 is a protein called Photosystem I reaction centre subunit IV/PsaE.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	60	Total	C	N	O	S	0	0
			490	316	83	90	1		

- Molecule 6 is a protein called Photosystem I reaction center subunit III.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	165	Total	C	N	O	S	0	0
			1264	805	223	234	2		

- Molecule 7 is a protein called Photosystem I reaction center subunit V, chloroplastic.

Mol	Chain	Residues	Atoms				AltConf	Trace
7	G	20	Total	C	N	O	0	0
			159	107	23	29		

- Molecule 8 is a protein called Photosystem I reaction center subunit VIII.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	I	33	Total	C	N	O	S	0	0
			248	171	34	41	2		

- Molecule 9 is a protein called Photosystem I reaction center subunit IX.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	J	41	Total	C	N	O	S	0	0
			336	232	48	55	1		

- Molecule 10 is a protein called PSI-K.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	K	82	Total	C	N	O	S	0	0
			571	365	97	108	1		

- Molecule 11 is a protein called Photosystem I reaction center subunit XII.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	M	31	Total	C	N	O	S	0	0
			237	160	35	41	1		

- Molecule 12 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	a	195	Total	C	N	O	S	0	0
			1458	944	245	267	2		
12	b	192	Total	C	N	O	S	0	0
			1441	933	242	264	2		

- Molecule 13 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	3	220	Total	C	N	O	S	0	0
			1707	1117	275	312	3		

- Molecule 14 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	4	207	Total	C	N	O	S	0	0
			1603	1045	264	290	4		

- Molecule 15 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	5	231	Total	C	N	O	S	0	0
			1779	1160	306	309	4		

- Molecule 16 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	6	234	Total	C	N	O	S	0	0
			1774	1159	296	311	8		

- Molecule 17 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	7	216	Total	C	N	O	S	0	0
			1650	1070	280	298	2		

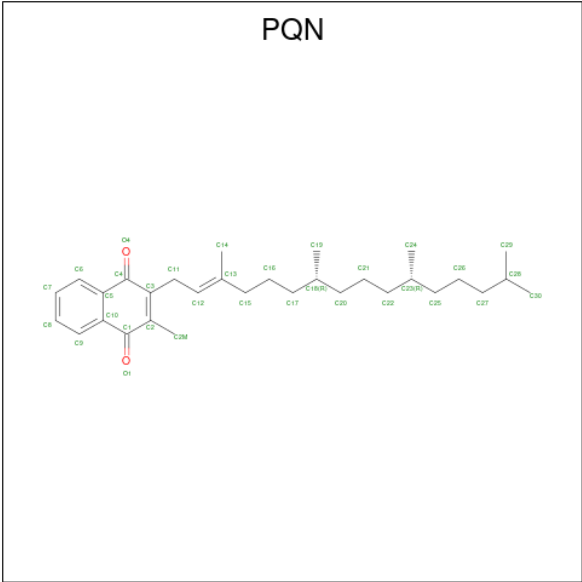
- Molecule 18 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	8	222	Total	C	N	O	S	0	0
			1701	1112	276	310	3		

- Molecule 19 is a protein called PSI subunit V.

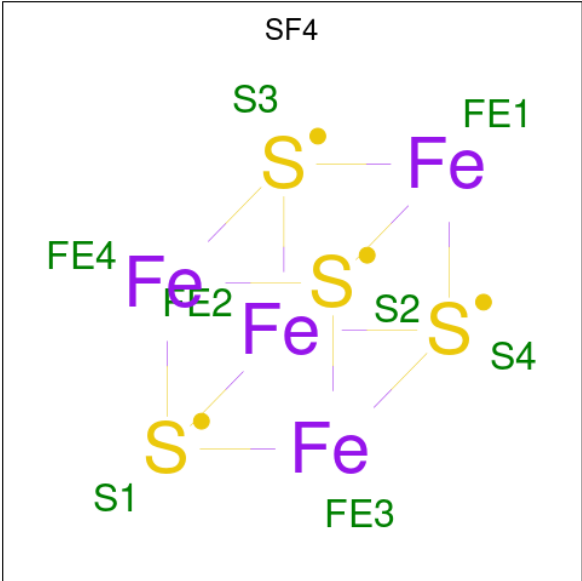
Mol	Chain	Residues	Atoms					AltConf	Trace
19	L	122	Total	C	N	O	S	0	0
			890	585	148	155	2		

- Molecule 20 is PHYLLOQUINONE (CCD ID: PQN) (formula: C₃₁H₄₆O₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
20	A	1	Total	C	O	0
			33	31	2	
20	B	1	Total	C	O	0
			33	31	2	

- Molecule 21 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe₄S₄) (labeled as "Ligand of Interest" by depositor).



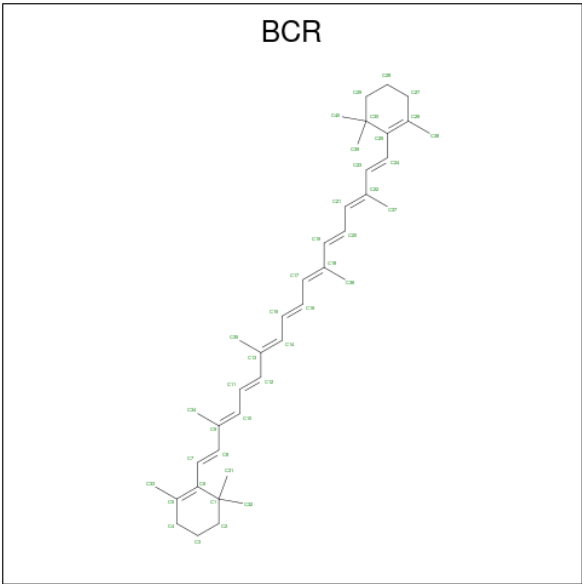
Mol	Chain	Residues	Atoms			AltConf
21	A	1	Total	Fe	S	0
			8	4	4	

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Mol	Chain	Residues	Atoms			AltConf
21	C	1	Total	Fe	S	0
			8	4	4	
21	C	1	Total	Fe	S	0
			8	4	4	

- Molecule 22 is BETA-CAROTENE (CCD ID: BCR) (formula: C₄₀H₅₆) (labeled as "Ligand of Interest" by depositor).



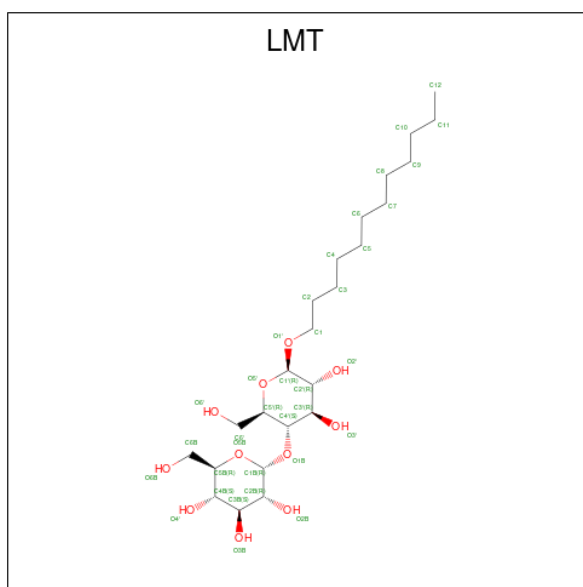
Mol	Chain	Residues	Atoms		AltConf
22	A	1	Total	C	0
			40	40	
22	A	1	Total	C	0
			40	40	
22	A	1	Total	C	0
			40	40	
22	A	1	Total	C	0
			40	40	
22	A	1	Total	C	0
			40	40	
22	B	1	Total	C	0
			40	40	
22	B	1	Total	C	0
			40	40	
22	B	1	Total	C	0
			40	40	
22	B	1	Total	C	0
			40	40	

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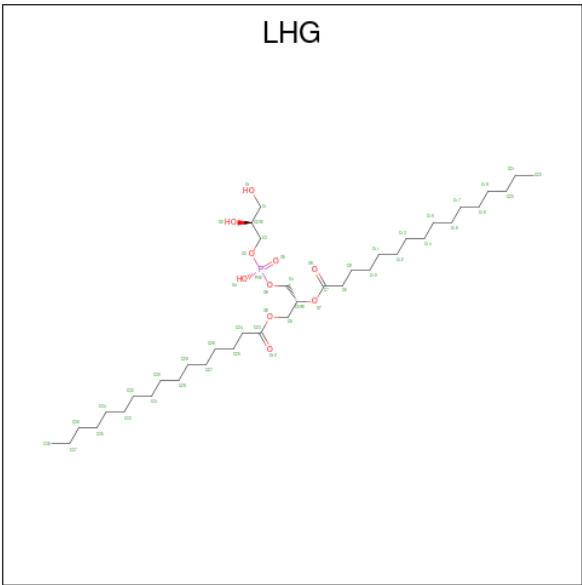
Mol	Chain	Residues	Atoms	AltConf
22	B	1	Total C 40 40	0
22	B	1	Total C 40 40	0
22	F	1	Total C 40 40	0
22	I	1	Total C 40 40	0
22	J	1	Total C 40 40	0
22	K	1	Total C 40 40	0
22	K	1	Total C 40 40	0
22	M	1	Total C 40 40	0
22	3	1	Total C 40 40	0
22	3	1	Total C 40 40	0
22	3	1	Total C 40 40	0
22	5	1	Total C 40 40	0
22	6	1	Total C 40 40	0
22	7	1	Total C 40 40	0
22	8	1	Total C 40 40	0
22	L	1	Total C 40 40	0
22	L	1	Total C 40 40	0

- Molecule 23 is DODECYL-BETA-D-MALTOSIDE (CCD ID: LMT) (formula: C₂₄H₄₆O₁₁) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
23	A	1	Total 35	C 24	O 11	0
23	A	1	Total 35	C 24	O 11	0
23	B	1	Total 35	C 24	O 11	0
23	F	1	Total 29	C 18	O 11	0
23	5	1	Total 30	C 19	O 11	0
23	5	1	Total 35	C 24	O 11	0
23	7	1	Total 35	C 24	O 11	0

- Molecule 24 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: C₃₈H₇₅O₁₀P) (labeled as "Ligand of Interest" by depositor).

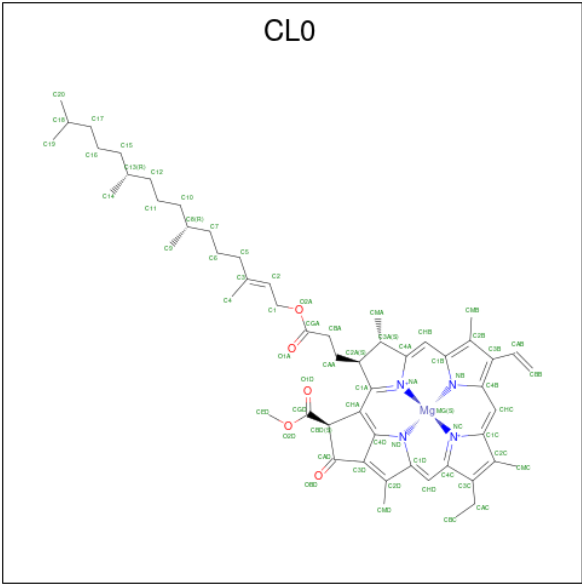


Mol	Chain	Residues	Atoms				AltConf
24	A	1	Total	C	O	P	0
			42	31	10	1	
24	A	1	Total	C	O	P	0
			42	31	10	1	
24	A	1	Total	C	O	P	0
			49	38	10	1	
24	B	1	Total	C	O	P	0
			32	21	10	1	
24	a	1	Total	C	O	P	0
			49	38	10	1	
24	4	1	Total	C	O	P	0
			49	38	10	1	
24	5	1	Total	C	O	P	0
			35	24	10	1	
24	5	1	Total	C	O	P	0
			32	21	10	1	
24	7	1	Total	C	O	P	0
			49	38	10	1	
24	7	1	Total	C	O	P	0
			44	33	10	1	
24	8	1	Total	C	O	P	0
			49	38	10	1	
24	b	1	Total	C	O	P	0
			35	24	10	1	

- Molecule 25 is UNKNOWN LIGAND (CCD ID: UNL) (formula:) (labeled as "Ligand of Interest" by depositor).

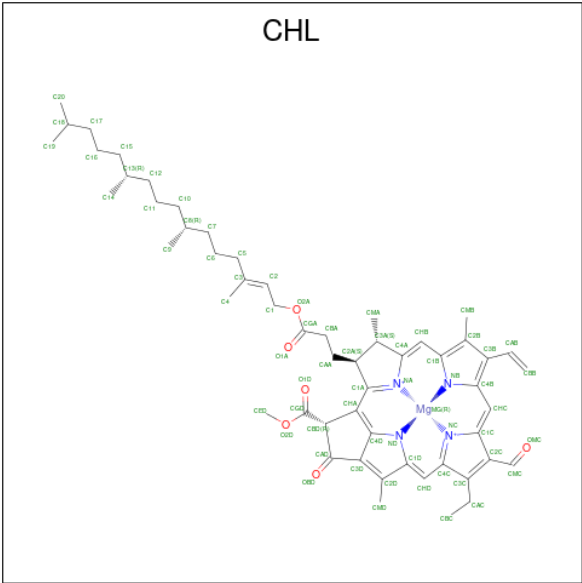
Mol	Chain	Residues	Atoms		AltConf
25	A	3	Total	C	0
			43	43	
25	F	4	Total	C	0
			66	66	
25	J	1	Total	C	0
			14	14	
25	K	1	Total	C	0
			18	18	
25	M	1	Total	C	0
			18	18	
25	a	1	Total	C	0
			18	18	
25	3	2	Total	C	0
			32	32	
25	4	1	Total	C	0
			18	18	
25	6	1	Total	C	0
			18	18	
25	7	3	Total	C	0
			43	43	
25	8	3	Total	C	0
			46	46	

- Molecule 26 is CHLOROPHYLL A ISOMER (CCD ID: CL0) (formula: $C_{55}H_{72}MgN_4O_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
26	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

- Molecule 27 is CHLOROPHYLL B (CCD ID: CHL) (formula: C₅₅H₇₀MgN₄O₆) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
27	A	1	Total	C	Mg	N	O	0
			62	52	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			61	50	1	4	6	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			56	45	1	4	6	
27	A	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			50	40	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
27	A	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			58	48	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			57	47	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			57	47	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	B	1	Total	C	Mg	N	O	0
			60	50	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
27	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	B	1	Total 55	C 45	Mg 1	N 4	O 5	0
27	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	B	1	Total 45	C 35	Mg 1	N 4	O 5	0
27	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	B	1	Total 50	C 40	Mg 1	N 4	O 5	0
27	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	B	1	Total 50	C 40	Mg 1	N 4	O 5	0
27	B	1	Total 62	C 52	Mg 1	N 4	O 5	0
27	F	1	Total 46	C 36	Mg 1	N 4	O 5	0
27	F	1	Total 50	C 40	Mg 1	N 4	O 5	0
27	J	1	Total 42	C 34	Mg 1	N 4	O 3	0
27	K	1	Total 50	C 40	Mg 1	N 4	O 5	0
27	K	1	Total 46	C 36	Mg 1	N 4	O 5	0
27	K	1	Total 46	C 36	Mg 1	N 4	O 5	0
27	K	1	Total 47	C 36	Mg 1	N 4	O 6	0
27	a	1	Total 60	C 50	Mg 1	N 4	O 5	0
27	a	1	Total 45	C 35	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
27	a	1	Total 60	C 50	Mg 1	N 4	O 5	0
27	a	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	a	1	Total 60	C 50	Mg 1	N 4	O 5	0
27	a	1	Total 50	C 40	Mg 1	N 4	O 5	0
27	a	1	Total 55	C 45	Mg 1	N 4	O 5	0
27	a	1	Total 45	C 35	Mg 1	N 4	O 5	0
27	a	1	Total 61	C 50	Mg 1	N 4	O 6	0
27	a	1	Total 48	C 37	Mg 1	N 4	O 6	0
27	a	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	a	1	Total 48	C 37	Mg 1	N 4	O 6	0
27	a	1	Total 50	C 40	Mg 1	N 4	O 5	0
27	a	1	Total 46	C 36	Mg 1	N 4	O 5	0
27	3	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	3	1	Total 46	C 36	Mg 1	N 4	O 5	0
27	3	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	3	1	Total 60	C 50	Mg 1	N 4	O 5	0
27	3	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	3	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	3	1	Total 60	C 50	Mg 1	N 4	O 5	0
27	3	1	Total 52	C 42	Mg 1	N 4	O 5	0
27	3	1	Total 66	C 55	Mg 1	N 4	O 6	0

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Mol	Chain	Residues	Atoms					AltConf
27	3	1	Total	C	Mg	N	O	0
			62	52	1	4	5	
27	3	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
27	3	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	3	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
27	3	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
27	4	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			48	37	1	4	6	
27	4	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
27	4	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
27	4	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
27	4	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
27	4	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			57	47	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
27	5	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
27	5	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
27	5	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
27	5	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
27	5	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
27	6	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	6	1	Total	C	Mg	N	O	0
			57	47	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
27	6	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	6	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
27	6	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
27	6	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	6	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	6	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	6	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
27	6	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	6	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
27	6	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
27	6	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
27	6	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
27	6	1	Total	C	Mg	N	O	0
			43	34	1	4	4	
27	6	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	7	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	7	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
27	7	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	7	1	Total	C	Mg	N	O	0
			62	52	1	4	5	
27	7	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
27	7	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
27	7	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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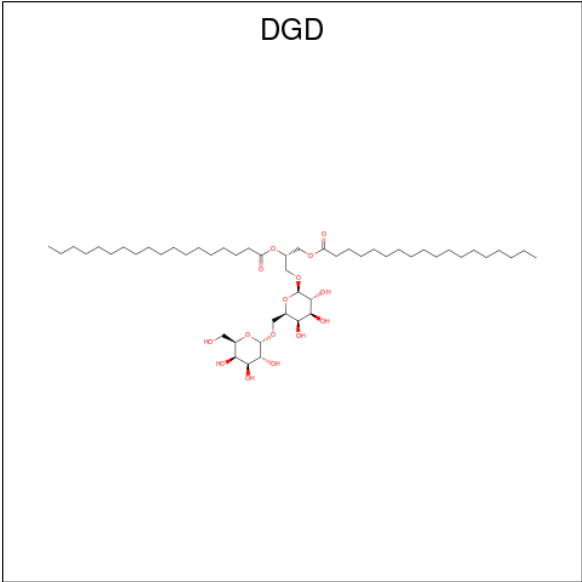
Mol	Chain	Residues	Atoms					AltConf
27	7	1	Total 55	C 45	Mg 1	N 4	O 5	0
27	7	1	Total 66	C 55	Mg 1	N 4	O 6	0
27	7	1	Total 47	C 36	Mg 1	N 4	O 6	0
27	7	1	Total 47	C 36	Mg 1	N 4	O 6	0
27	7	1	Total 61	C 50	Mg 1	N 4	O 6	0
27	7	1	Total 52	C 42	Mg 1	N 4	O 5	0
27	7	1	Total 46	C 36	Mg 1	N 4	O 5	0
27	8	1	Total 46	C 36	Mg 1	N 4	O 5	0
27	8	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	8	1	Total 50	C 40	Mg 1	N 4	O 5	0
27	8	1	Total 66	C 55	Mg 1	N 4	O 6	0
27	8	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	8	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	8	1	Total 65	C 55	Mg 1	N 4	O 5	0
27	8	1	Total 46	C 36	Mg 1	N 4	O 5	0
27	8	1	Total 55	C 45	Mg 1	N 4	O 5	0
27	8	1	Total 52	C 42	Mg 1	N 4	O 5	0
27	8	1	Total 66	C 55	Mg 1	N 4	O 6	0
27	8	1	Total 50	C 40	Mg 1	N 4	O 5	0
27	8	1	Total 50	C 40	Mg 1	N 4	O 5	0
27	8	1	Total 45	C 35	Mg 1	N 4	O 5	0

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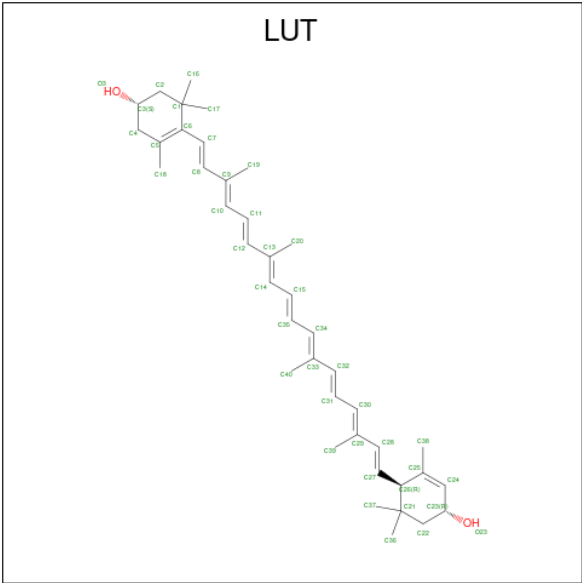
Mol	Chain	Residues	Atoms					AltConf
27	8	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	8	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	L	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
27	L	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
27	b	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	b	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	b	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
27	b	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	b	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	b	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	b	1	Total	C	Mg	N	O	0
			47	36	1	4	6	
27	b	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	b	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
27	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
27	b	1	Total	C	Mg	N	O	0
			48	37	1	4	6	
27	b	1	Total	C	Mg	N	O	0
			48	37	1	4	6	

- Molecule 28 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: $C_{51}H_{96}O_{15}$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
28	B	1	Total	C	O	0
			61	46	15	
28	7	1	Total	C	O	0
			66	51	15	

- Molecule 29 is (3R,3'R,6S)-4,5-DIDEHYDRO-5,6-DIHYDRO-BETA,BETA-CAROTENE-3,3'-DIOL (CCD ID: LUT) (formula: C₄₀H₅₆O₂) (labeled as "Ligand of Interest" by depositor).



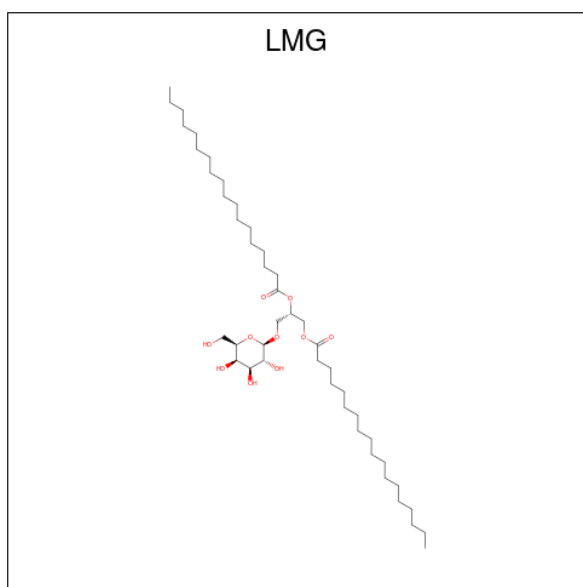
Mol	Chain	Residues	Atoms			AltConf
29	F	1	Total	C	O	0
			42	40	2	

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Mol	Chain	Residues	Atoms			AltConf
29	J	1	Total	C	O	0
			42	40	2	
29	a	1	Total	C	O	0
			42	40	2	
29	a	1	Total	C	O	0
			42	40	2	
29	3	1	Total	C	O	0
			42	40	2	
29	3	1	Total	C	O	0
			42	40	2	
29	4	1	Total	C	O	0
			42	40	2	
29	4	1	Total	C	O	0
			42	40	2	
29	5	1	Total	C	O	0
			42	40	2	
29	5	1	Total	C	O	0
			42	40	2	
29	6	1	Total	C	O	0
			42	40	2	
29	6	1	Total	C	O	0
			42	40	2	
29	7	1	Total	C	O	0
			42	40	2	
29	8	1	Total	C	O	0
			42	40	2	
29	8	1	Total	C	O	0
			42	40	2	
29	b	1	Total	C	O	0
			42	40	2	
29	b	1	Total	C	O	0
			42	40	2	

- Molecule 30 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (CCD ID: LMG) (formula: C₄₅H₈₆O₁₀) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
30	J	1	Total	C	O	0
			49	39	10	
30	J	1	Total	C	O	0
			29	19	10	
30	a	1	Total	C	O	0
			44	34	10	
30	7	1	Total	C	O	0
			41	31	10	
30	8	1	Total	C	O	0
			32	22	10	

- Molecule 31 is ASTAXANTHIN (CCD ID: AXT) (formula: $C_{40}H_{52}O_4$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltCon
31	a	1	Total	C	O	0
			43	40	3	

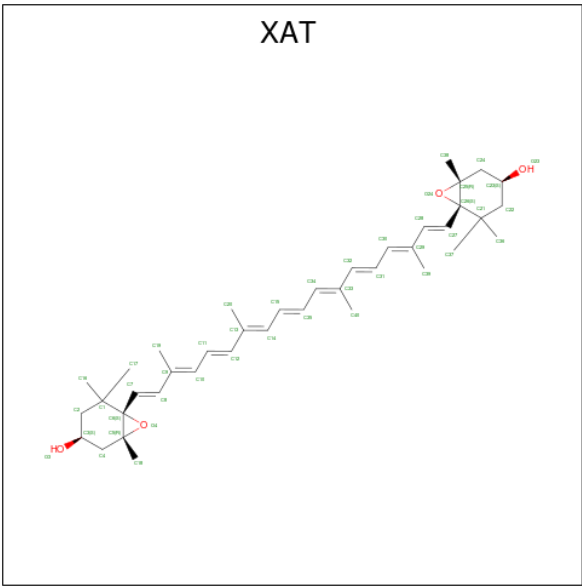
- Molecule 32 is PHOSPHATIDYLETHANOLAMINE (CCD ID: PTY) (formula: $\text{C}_{40}\text{H}_{80}\text{NO}_8\text{P}$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
32	5	1	Total	C	N	O	P	0
			31	21	1	8	1	

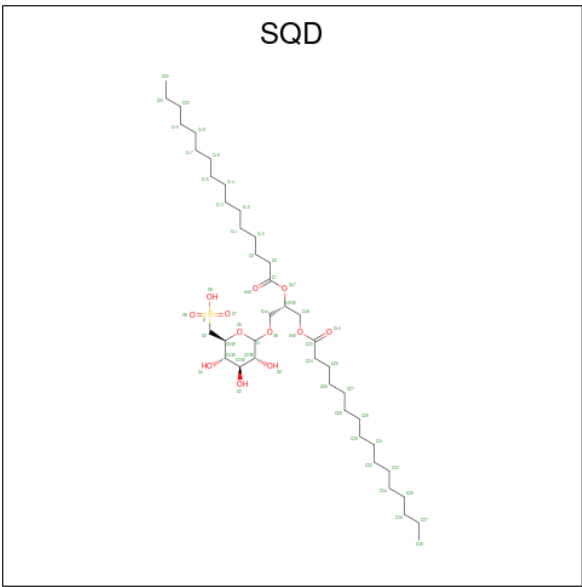
- Molecule 33 is (3S,5R,6S,3'S,5'R,6'S)-5,6,5',6'-DIEPOXY-5,6,5',6'- TETRAHYDRO-BETA ,BETA-CAROTENE-3,3'-DIOL (CCD ID: XAT) (formula: C₄₀H₅₆O₄) (labeled as "Ligand

of Interest" by depositor).



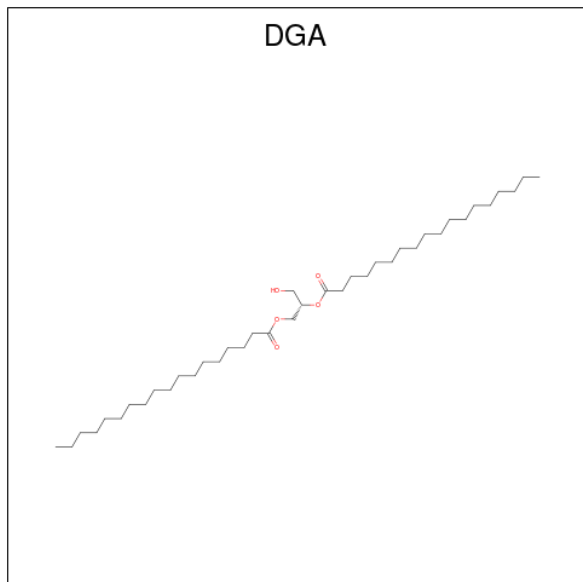
Mol	Chain	Residues	Atoms			AltConf
33	7	1	Total	C	O	0
			44	40	4	

- Molecule 34 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (CCD ID: SQD) (formula: C₄₁H₇₈O₁₂S) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
34	8	1	Total	C	O	S	0
			35	22	12	1	

- Molecule 35 is DIACYL GLYCEROL (CCD ID: DGA) (formula: $C_{39}H_{76}O_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
35	8	1	Total	C	O	0
			28	23	5	

- Molecule 36 is water.

Mol	Chain	Residues	Atoms		AltConf
36	A	189	Total	O	0
			189	189	
36	B	174	Total	O	0
			174	174	
36	C	37	Total	O	0
			37	37	
36	D	26	Total	O	0
			26	26	
36	E	9	Total	O	0
			9	9	
36	F	30	Total	O	0
			30	30	
36	I	1	Total	O	0
			1	1	
36	J	5	Total	O	0
			5	5	
36	K	2	Total	O	0
			2	2	

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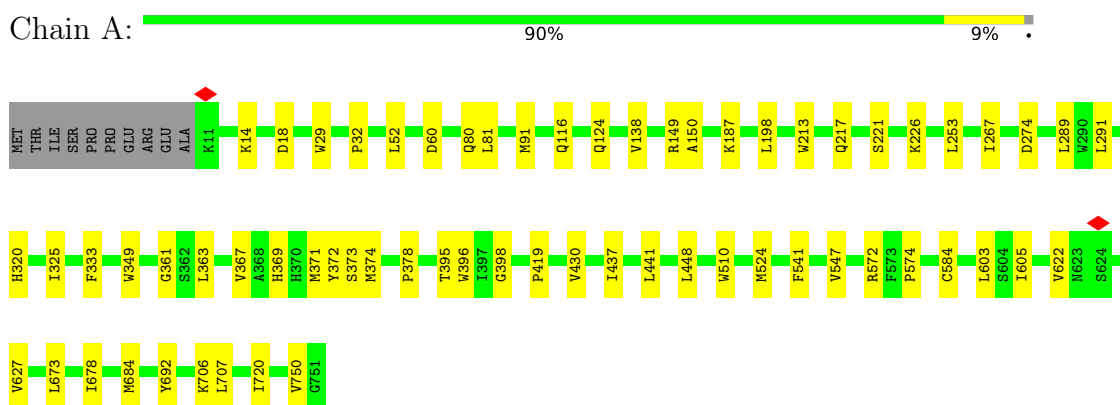
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Mol	Chain	Residues	Atoms		AltConf
36	a	13	Total 13	O 13	0
36	3	25	Total 25	O 25	0
36	5	7	Total 7	O 7	0
36	6	2	Total 2	O 2	0
36	7	25	Total 25	O 25	0
36	8	24	Total 24	O 24	0
36	L	1	Total 1	O 1	0

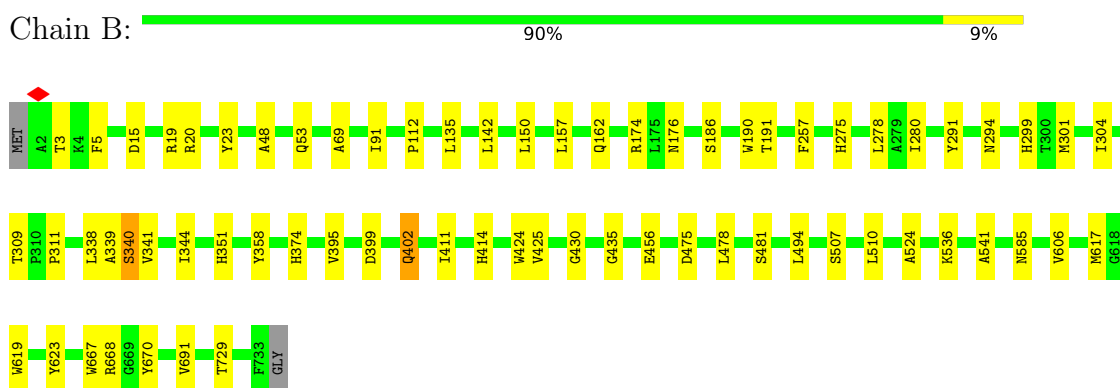
3 Residue-property plots

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.

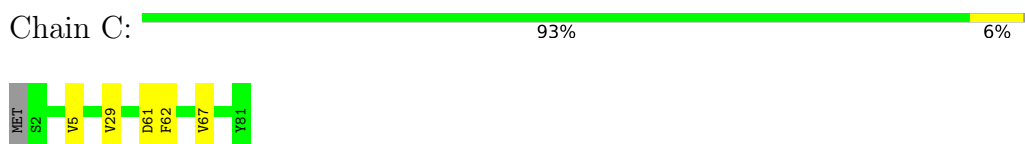
- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1



- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

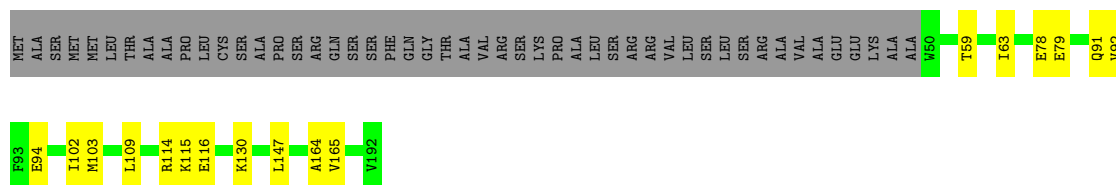


- Molecule 3: Photosystem I iron-sulfur center



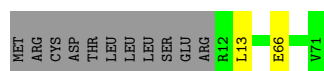
- Molecule 4: Photosystem I reaction center subunit II, chloroplastic

Chain D:  66% 9% 26%



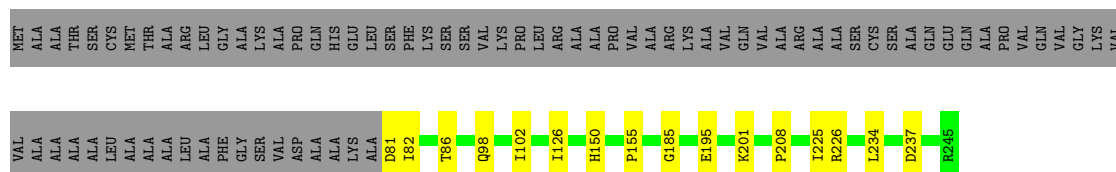
- Molecule 5: Photosystem I reaction centre subunit IV/PsaE

Chain E:  82% 15%



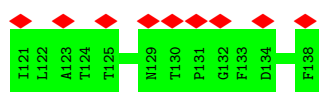
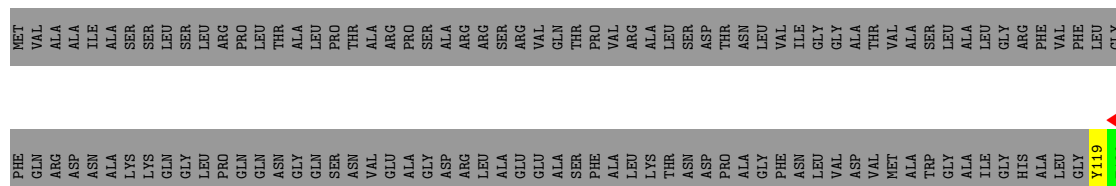
- Molecule 6: Photosystem I reaction center subunit III

Chain F:  61% 7% 33%



- Molecule 7: Photosystem I reaction center subunit V, chloroplastic

Chain G:  7% 14% 86%



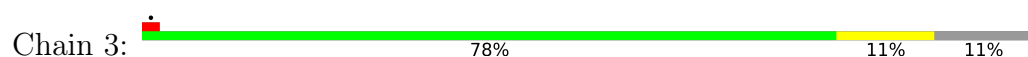
- Molecule 8: Photosystem I reaction center subunit VIII

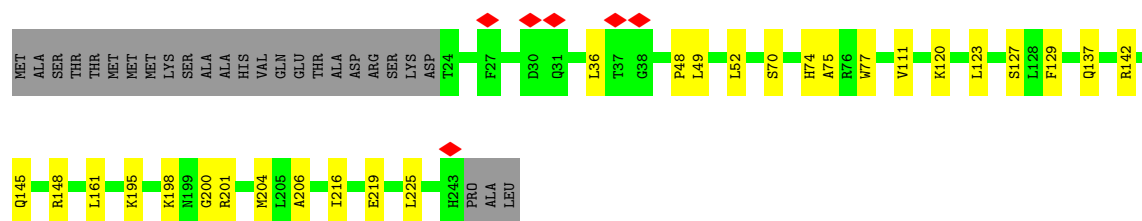
Chain I:  86% 8% 8%



- Molecule 9: Photosystem I reaction center subunit IX

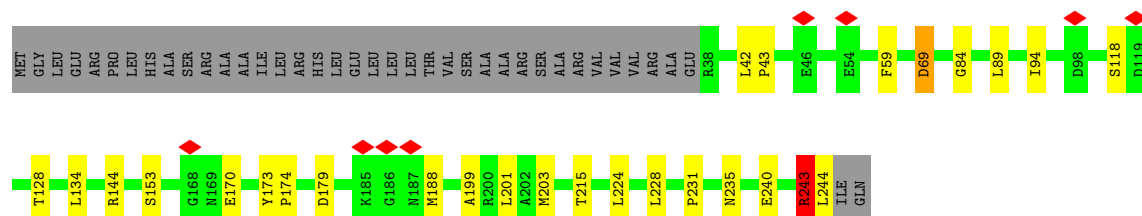
Chain J:  83% 17%





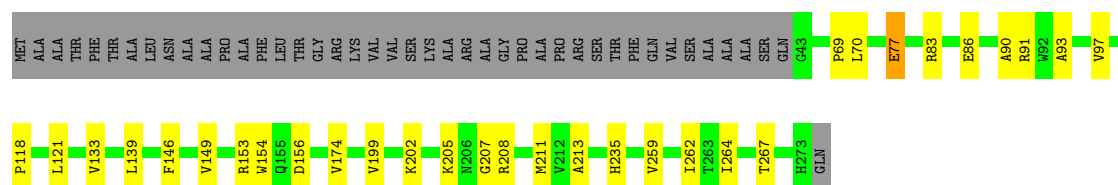
- Molecule 14: Chlorophyll a-b binding protein, chloroplastic

Chain 4: 73% 11% 16%



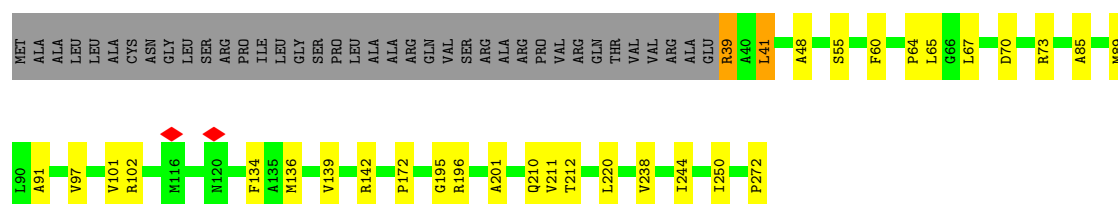
- Molecule 15: Chlorophyll a-b binding protein, chloroplastic

Chain 5: 73% 11% 16%



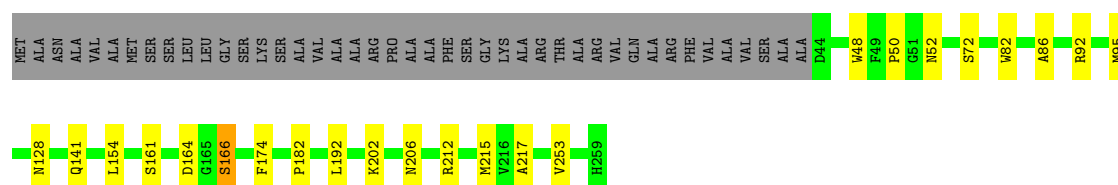
- Molecule 16: Chlorophyll a-b binding protein, chloroplastic

Chain 6: 74% 11% 14%



- Molecule 17: Chlorophyll a-b binding protein, chloroplastic

Chain 7: 75% 8% 17%



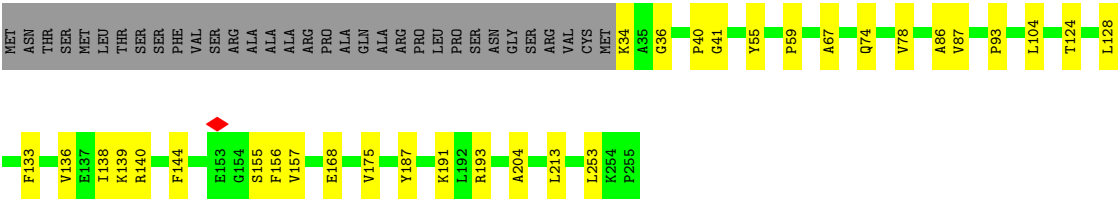
- Molecule 18: Chlorophyll a-b binding protein, chloroplastic

Chain 8:

75%

13%

13%



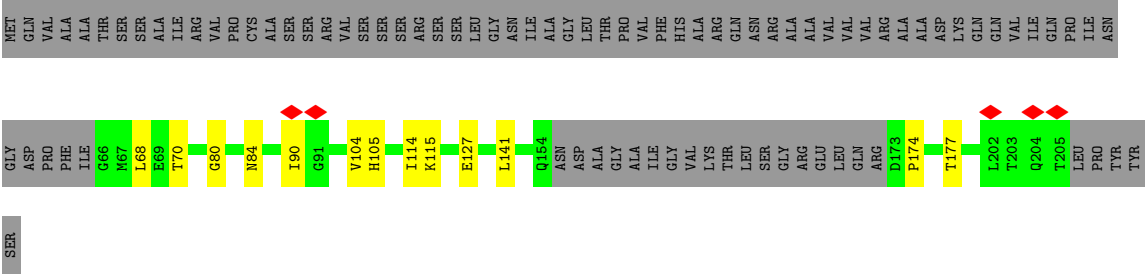
● Molecule 19: PSI subunit V

Chain L:

52%

6%

42%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	63984	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	165000	Depositor
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	0.519	Depositor
Minimum map value	-0.166	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.010	Depositor
Recommended contour level	0.06	Depositor
Map size (Å)	436.2, 436.2, 436.2	wwPDB
Map dimensions	600, 600, 600	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.727, 0.727, 0.727	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: LHG, DGD, LUT, LMT, CL0, BCR, SQD, UNL, CHL, AXT, PQN, XAT, DGA, LMG, SF4, PTY

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	A	0.24	0/6021	0.42	0/8213
2	B	0.21	0/6041	0.41	1/8247 (0.0%)
3	C	0.28	0/606	0.47	0/822
4	D	0.16	0/1136	0.34	0/1537
5	E	0.17	0/502	0.31	0/686
6	F	0.19	0/1288	0.34	0/1737
7	G	0.10	0/165	0.24	0/226
8	I	0.25	0/254	0.52	0/347
9	J	0.18	0/348	0.35	0/476
10	K	0.16	0/580	0.37	0/789
11	M	0.17	0/240	0.42	0/325
12	a	0.16	0/1501	0.33	0/2045
12	b	0.22	0/1483	0.45	0/2019
13	3	0.23	0/1759	0.41	0/2394
14	4	0.22	0/1653	0.40	0/2250
15	5	0.18	0/1834	0.41	0/2496
16	6	0.19	0/1832	0.36	0/2501
17	7	0.18	0/1702	0.33	0/2323
18	8	0.19	0/1752	0.36	0/2379
19	L	0.18	0/912	0.34	0/1247
All	All	0.21	0/31609	0.39	1/43059 (0.0%)

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
14	4	0	1
16	6	0	1
All	All	0	2

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
2	B	668	ARG	N-CA-C	6.44	117.96	111.07

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
14	4	243	ARG	Sidechain
16	6	39	ARG	Sidechain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5823	0	5662	52	0
2	B	5832	0	5609	45	0
3	C	596	0	573	3	0
4	D	1110	0	1131	10	0
5	E	490	0	482	2	0
6	F	1264	0	1300	11	0
7	G	159	0	152	0	0
8	I	248	0	269	2	0
9	J	336	0	340	8	0
10	K	571	0	592	4	0
11	M	237	0	260	3	0
12	a	1458	0	1423	12	0
12	b	1441	0	1403	46	0
13	3	1707	0	1667	25	0
14	4	1603	0	1572	25	0
15	5	1779	0	1763	25	0
16	6	1774	0	1758	26	0
17	7	1650	0	1595	18	0
18	8	1701	0	1683	24	0
19	L	890	0	917	9	0
20	A	33	0	46	0	0
20	B	33	0	46	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
21	A	8	0	0	0	0
21	C	16	0	0	0	0
22	3	120	0	168	9	0
22	5	40	0	56	8	0
22	6	40	0	56	1	0
22	7	40	0	56	3	0
22	8	40	0	56	5	0
22	A	200	0	280	11	0
22	B	240	0	336	13	0
22	F	40	0	56	1	0
22	I	40	0	56	2	0
22	J	40	0	56	6	0
22	K	80	0	112	9	0
22	L	80	0	112	2	0
22	M	40	0	56	0	0
23	5	65	0	77	2	0
23	7	35	0	45	1	0
23	A	70	0	87	2	0
23	B	35	0	45	4	0
23	F	29	0	30	1	0
24	4	49	0	74	7	0
24	5	67	0	74	4	0
24	7	93	0	135	7	0
24	8	49	0	74	0	0
24	A	133	0	188	7	0
24	B	32	0	34	0	0
24	a	49	0	74	12	0
24	b	35	0	40	2	0
25	3	32	0	0	0	0
25	4	18	0	0	0	0
25	6	18	0	0	0	0
25	7	43	0	0	0	0
25	8	46	0	0	0	0
25	A	43	0	0	0	0
25	F	66	0	0	0	0
25	J	14	0	0	3	0
25	K	18	0	0	0	0
25	M	18	0	0	0	0
25	a	18	0	0	0	0
26	A	65	0	72	2	0
27	3	818	0	759	22	0
27	4	829	0	606	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
27	5	956	0	783	41	0
27	6	819	0	643	35	0
27	7	768	0	648	33	0
27	8	897	0	797	24	0
27	A	2666	0	2592	120	0
27	B	2466	0	2374	66	0
27	F	96	0	66	0	0
27	J	42	0	28	2	0
27	K	189	0	126	3	0
27	L	105	0	86	3	0
27	a	758	0	634	23	0
27	b	677	0	479	62	0
28	7	66	0	96	5	0
28	B	61	0	83	1	0
29	3	84	0	110	10	0
29	4	84	0	110	8	0
29	5	84	0	110	8	0
29	6	84	0	110	4	0
29	7	42	0	55	3	0
29	8	84	0	112	8	0
29	F	42	0	55	4	0
29	J	42	0	54	1	0
29	a	84	0	108	2	0
29	b	84	0	112	10	0
30	7	41	0	52	1	0
30	8	32	0	34	3	0
30	J	78	0	99	5	0
30	a	44	0	58	2	0
31	a	43	0	52	0	0
32	5	31	0	35	1	0
33	7	44	0	56	0	0
34	8	35	0	34	1	0
35	8	28	0	38	3	0
36	3	25	0	0	1	0
36	5	7	0	0	0	0
36	6	2	0	0	1	0
36	7	25	0	0	0	0
36	8	24	0	0	0	0
36	A	189	0	0	2	0
36	B	174	0	0	1	0
36	C	37	0	0	0	0
36	D	26	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
36	E	9	0	0	0	0
36	F	30	0	0	1	0
36	I	1	0	0	0	0
36	J	5	0	0	0	0
36	K	2	0	0	0	0
36	L	1	0	0	0	0
36	a	13	0	0	0	0
All	All	46812	0	44942	705	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 8.

All (705) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:b:84:ALA:CB	27:b:308:CHL:HBA2	1.55	1.36
27:b:308:CHL:CBB	27:b:317:CHL:HHD	1.55	1.34
27:b:308:CHL:CBB	27:b:317:CHL:HAC1	1.59	1.31
12:b:84:ALA:HB1	27:b:308:CHL:CBA	1.62	1.26
27:b:308:CHL:HBB1	27:b:317:CHL:CHD	1.74	1.17
12:b:97:GLN:CG	27:b:308:CHL:HAC2	1.78	1.14
12:b:97:GLN:HG3	27:b:308:CHL:CAC	1.78	1.11
12:b:84:ALA:HB1	27:b:308:CHL:CGA	1.86	1.04
27:b:308:CHL:C3B	27:b:317:CHL:CHD	2.35	1.04
12:b:84:ALA:HB3	27:b:308:CHL:HBA2	1.36	1.00
12:b:84:ALA:HB1	27:b:308:CHL:HBA2	1.23	1.00
29:5:303:LUT:H193	27:5:316:CHL:HAB	1.47	0.95
12:b:116:LEU:HD13	27:b:308:CHL:HBC1	1.50	0.94
27:b:308:CHL:C3B	27:b:317:CHL:C4C	2.52	0.88
27:A:843:CHL:H201	27:B:841:CHL:HBC1	1.55	0.88
27:b:308:CHL:CAB	27:b:317:CHL:HHD	2.04	0.88
27:4:306:CHL:HBC2	27:4:317:CHL:HBC1	1.55	0.86
27:b:308:CHL:HBB1	27:b:317:CHL:HHD	0.88	0.86
29:b:303:LUT:H30	27:b:306:CHL:HAB	1.62	0.81
12:b:97:GLN:HG3	27:b:308:CHL:HAC2	0.88	0.81
27:7:319:CHL:H92	27:7:319:CHL:H41	1.62	0.80
27:4:313:CHL:CMC	27:4:316:CHL:HHC	2.10	0.80
22:5:301:BCR:H362	27:6:308:CHL:HED1	1.64	0.79
27:A:823:CHL:HBB2	27:A:843:CHL:H142	1.64	0.79
12:b:84:ALA:CB	27:b:308:CHL:CBA	2.31	0.79
27:A:827:CHL:H2	13:3:49:LEU:HD13	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:b:308:CHL:HMB3	27:b:308:CHL:NC	1.99	0.77
27:6:307:CHL:HBB2	27:7:317:CHL:H151	1.67	0.76
27:A:839:CHL:H203	27:A:846:CHL:CAC	2.17	0.75
27:b:308:CHL:CAB	27:b:317:CHL:HAC1	2.15	0.75
27:A:831:CHL:MG	36:A:959:HOH:O	1.30	0.74
27:A:839:CHL:H203	27:A:846:CHL:HAC1	1.70	0.73
27:6:307:CHL:MG	36:6:402:HOH:O	1.32	0.72
12:b:84:ALA:HB1	27:b:308:CHL:O2A	1.89	0.71
27:b:308:CHL:CBB	27:b:317:CHL:CAC	2.55	0.71
27:a:314:CHL:HAA2	18:8:128:LEU:HD21	1.71	0.70
27:b:308:CHL:HBB1	27:b:317:CHL:HAC1	1.68	0.70
18:8:74:GLN:HE21	18:8:140:ARG:HH11	1.39	0.70
27:A:843:CHL:H172	22:J:102:BCR:H19C	1.72	0.70
27:B:834:CHL:HBB2	27:B:851:CHL:HBA2	1.73	0.69
27:b:308:CHL:C3B	27:b:317:CHL:HHD	2.13	0.69
12:b:84:ALA:CB	27:b:308:CHL:CGA	2.64	0.69
12:a:128:LEU:HD21	27:a:316:CHL:HAC2	1.73	0.69
14:4:240:GLU:HB3	27:4:317:CHL:C1B	2.23	0.69
27:8:311:CHL:C1C	27:8:323:CHL:HMB2	2.22	0.68
27:A:816:CHL:H122	27:A:843:CHL:H203	1.76	0.68
27:A:839:CHL:H201	27:A:839:CHL:HAB	1.76	0.68
27:5:316:CHL:C4C	27:5:319:CHL:HMC	2.26	0.65
1:A:437:ILE:HG12	27:A:846:CHL:CHC	2.26	0.65
27:A:816:CHL:H142	27:A:843:CHL:H192	1.80	0.64
15:5:93:ALA:HB2	29:5:303:LUT:H14	1.77	0.64
18:8:193:ARG:HG3	27:8:318:CHL:HED2	1.80	0.63
18:8:78:VAL:HG12	27:8:323:CHL:HMD3	1.79	0.63
27:A:830:CHL:H52	22:3:303:BCR:HC7	1.80	0.63
17:7:128:ASN:HB3	23:7:308:LMT:H6'1	1.81	0.62
12:b:39:PRO:HD2	27:b:311:CHL:HED2	1.81	0.62
17:7:50:PRO:HD2	27:7:319:CHL:HED3	1.81	0.62
27:a:315:CHL:HMA2	18:8:138:ILE:HD13	1.82	0.62
18:8:67:ALA:HB1	30:8:307:LMG:HC4	1.81	0.62
27:5:323:CHL:HED2	27:5:325:CHL:H3A	1.82	0.61
14:4:69:ASP:OD1	14:4:69:ASP:N	2.32	0.61
29:3:305:LUT:H393	27:3:320:CHL:H151	1.83	0.61
12:b:115:TYR:HB3	12:b:120:VAL:HG21	1.82	0.61
27:4:306:CHL:CMD	27:4:317:CHL:HBC3	2.30	0.61
2:B:15:ASP:HB3	2:B:20:ARG:HB2	1.82	0.61
27:3:316:CHL:H143	27:3:317:CHL:H11	1.83	0.61
12:b:173:ASN:HA	12:b:176:LYS:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:8:303:LUT:H31	27:8:312:CHL:H112	1.83	0.60
27:7:320:CHL:HAA1	27:7:320:CHL:CGD	2.32	0.60
13:3:49:LEU:HD12	29:3:305:LUT:H222	1.83	0.60
27:A:835:CHL:C2	13:3:48:PRO:HB2	2.31	0.60
22:F:301:BCR:HC32	30:J:101:LMG:H121	1.82	0.59
12:b:182:ARG:NH2	27:b:315:CHL:O1D	2.34	0.59
13:3:75:ALA:HB1	13:3:200:GLY:HA3	1.84	0.59
27:7:319:CHL:H202	27:7:324:CHL:HAC2	1.84	0.59
24:4:303:LHG:H141	27:4:312:CHL:HAB	1.85	0.59
29:b:301:LUT:C18	27:b:308:CHL:H3A	2.31	0.59
22:B:802:BCR:HC7	27:B:829:CHL:HMD2	1.84	0.59
15:5:90:ALA:HB1	15:5:207:GLY:HA3	1.85	0.59
27:A:859:CHL:H122	22:B:807:BCR:H12C	1.85	0.58
16:6:85:ALA:HB1	16:6:195:GLY:HA3	1.84	0.58
15:5:69:PRO:HD2	29:5:303:LUT:H23	1.86	0.58
27:8:323:CHL:HBB1	27:8:323:CHL:HMB1	1.86	0.58
29:b:301:LUT:H183	27:b:308:CHL:H3A	1.84	0.58
27:6:317:CHL:H2A	27:6:317:CHL:HED3	1.85	0.58
18:8:40:PRO:HD2	27:8:314:CHL:HED3	1.85	0.58
27:A:825:CHL:HBB2	27:A:828:CHL:HMA3	1.85	0.57
24:A:811:LHG:H332	27:A:839:CHL:H141	1.85	0.57
14:4:42:LEU:HD12	27:4:312:CHL:HED3	1.85	0.57
23:5:306:LMT:H52	27:5:323:CHL:H92	1.87	0.57
18:8:144:PHE:HE2	30:8:307:LMG:HC2	1.69	0.57
1:A:32:PRO:HB3	27:A:818:CHL:HAC1	1.87	0.57
27:A:823:CHL:CBB	27:A:843:CHL:H142	2.35	0.57
15:5:91:ARG:HB2	27:5:317:CHL:HED1	1.87	0.57
15:5:208:ARG:HH22	27:5:310:CHL:HED3	1.69	0.57
19:L:104:VAL:HG21	27:L:303:CHL:HED3	1.87	0.57
2:B:311:PRO:HB2	12:a:64:THR:HG21	1.87	0.57
27:b:308:CHL:NC	27:b:308:CHL:CMB	2.65	0.57
1:A:217:GLN:HA	1:A:221:SER:HB2	1.87	0.56
1:A:678:ILE:HD11	27:A:858:CHL:HBB1	1.87	0.56
27:A:841:CHL:HBB1	27:A:841:CHL:HMB3	1.87	0.56
27:B:820:CHL:H142	27:B:821:CHL:HBC1	1.86	0.56
27:4:306:CHL:HMD2	27:4:317:CHL:HBC3	1.86	0.56
27:7:320:CHL:HBC2	27:7:320:CHL:HMC	1.86	0.56
1:A:124:GLN:NE2	27:A:824:CHL:O1D	2.39	0.56
2:B:351:HIS:ND1	27:B:851:CHL:OBD	2.39	0.56
27:6:316:CHL:HMC	27:6:316:CHL:HBC2	1.88	0.56
18:8:34:LYS:NZ	18:8:36:GLY:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:b:84:ALA:HB1	27:b:308:CHL:CAA	2.32	0.56
12:b:183:LEU:HB2	29:b:303:LUT:H202	1.88	0.56
27:a:315:CHL:OBD	18:8:139:LYS:NZ	2.39	0.56
29:b:303:LUT:H30	27:b:306:CHL:HHC	1.88	0.55
27:A:843:CHL:HBB1	27:A:843:CHL:HMB3	1.87	0.55
17:7:174:PHE:CZ	27:7:323:CHL:HAB	2.42	0.55
2:B:536:LYS:NZ	36:B:910:HOH:O	2.39	0.55
27:B:846:CHL:H13	19:L:141:LEU:HD21	1.86	0.55
15:5:83:ARG:NH1	15:5:86:GLU:OE1	2.40	0.55
1:A:622:VAL:HG22	1:A:627:VAL:HG22	1.87	0.55
16:6:211:VAL:HG23	16:6:212:THR:HG23	1.88	0.55
24:A:811:LHG:H251	27:A:846:CHL:HAA2	1.88	0.55
27:A:843:CHL:H201	27:B:841:CHL:CBC	2.32	0.55
27:4:306:CHL:H8	27:4:306:CHL:HAB	1.88	0.55
27:A:841:CHL:HMA2	27:A:842:CHL:O1D	2.06	0.55
18:8:87:VAL:HG11	29:8:303:LUT:H12	1.87	0.55
12:a:176:LYS:HE2	27:a:313:CHL:HED3	1.88	0.55
27:A:829:CHL:H62	27:A:831:CHL:HMB3	1.88	0.54
4:D:91:GLN:HG3	4:D:103:MET:HE3	1.89	0.54
1:A:524:MET:HE1	1:A:627:VAL:HG11	1.89	0.54
27:4:313:CHL:C1C	27:4:316:CHL:HMC	2.37	0.54
29:5:303:LUT:H363	27:5:315:CHL:H43	1.90	0.54
9:J:41:PHE:HB3	25:J:105:UNL:C9	2.38	0.54
12:b:73:GLU:HG2	12:b:152:LYS:HG2	1.90	0.54
23:A:808:LMT:O3'	27:A:830:CHL:O1D	2.25	0.54
27:A:834:CHL:H172	27:A:850:CHL:H41	1.89	0.54
27:A:843:CHL:C19	22:J:102:BCR:H21C	2.38	0.54
4:D:92:VAL:HG22	4:D:102:ILE:HG12	1.89	0.54
16:6:70:ASP:HB3	16:6:73:ARG:HB2	1.90	0.54
27:A:843:CHL:H193	22:J:102:BCR:H21C	1.88	0.54
13:3:195:LYS:NZ	27:3:309:CHL:O1D	2.41	0.54
17:7:82:TRP:CE2	27:7:321:CHL:HED3	2.43	0.54
9:J:41:PHE:HA	30:J:101:LMG:HC62	1.90	0.54
27:4:313:CHL:CMC	27:4:316:CHL:HAB	2.38	0.54
16:6:67:LEU:HD12	17:7:192:LEU:HD21	1.89	0.54
16:6:272:PRO:HB2	27:6:308:CHL:HAB	1.89	0.53
9:J:24:GLY:HA3	27:J:106:CHL:HAB	1.90	0.53
16:6:172:PRO:HB3	27:6:317:CHL:HBC2	1.88	0.53
17:7:206:ASN:ND2	27:7:317:CHL:OBD	2.34	0.53
27:A:816:CHL:HHB	27:B:811:CHL:H202	1.88	0.53
27:3:316:CHL:H121	27:3:317:CHL:H42	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:5:318:CHL:H111	27:6:308:CHL:H43	1.89	0.53
10:K:76:SER:OG	10:K:77:ALA:N	2.39	0.53
14:4:84:GLY:HA3	14:4:199:ALA:HB1	1.90	0.53
14:4:144:ARG:NH2	27:4:315:CHL:O1D	2.40	0.53
27:a:316:CHL:C3C	27:a:318:CHL:HMC	2.39	0.53
15:5:146:PHE:HA	15:5:149:VAL:HG22	1.91	0.53
2:B:507:SER:HA	2:B:510:LEU:HD21	1.91	0.53
13:3:195:LYS:HE2	27:3:314:CHL:HED3	1.91	0.53
1:A:396:TRP:CD1	27:A:843:CHL:HAB	2.44	0.53
2:B:91:ILE:HB	2:B:112:PRO:HB2	1.91	0.53
17:7:182:PRO:HB3	27:7:323:CHL:HBC2	1.91	0.53
12:b:78:HIS:HD2	29:b:301:LUT:H15	1.75	0.52
24:a:305:LHG:H362	27:a:309:CHL:H52	1.91	0.52
18:8:157:VAL:HG23	27:b:307:CHL:H43	1.91	0.52
19:L:114:ILE:HG12	19:L:127:GLU:HA	1.90	0.52
1:A:369:HIS:CG	27:A:841:CHL:HED1	2.43	0.52
12:b:84:ALA:O	27:b:308:CHL:HAA2	2.08	0.52
16:6:91:ALA:HB2	29:6:303:LUT:H192	1.90	0.52
27:A:833:CHL:H93	27:A:833:CHL:HMC	1.90	0.52
12:a:39:PRO:HD2	27:a:315:CHL:HED3	1.92	0.52
15:5:121:LEU:HD21	27:5:319:CHL:HAC1	1.90	0.52
28:7:307:DGD:HA51	27:7:320:CHL:HBB1	1.90	0.52
1:A:448:LEU:HB3	1:A:541:PHE:HB2	1.90	0.52
10:K:113:ILE:HD11	22:K:202:BCR:H23C	1.91	0.52
4:D:114:ARG:NH2	4:D:116:GLU:OE1	2.39	0.52
10:K:103:THR:OG1	10:K:106:ASP:OD2	2.27	0.52
12:a:176:LYS:NZ	27:a:308:CHL:O1D	2.42	0.52
24:5:324:LHG:HC81	27:5:325:CHL:HMD2	1.90	0.52
27:B:831:CHL:HAB	27:B:838:CHL:HMD2	1.92	0.52
29:7:304:LUT:H8	29:7:304:LUT:H171	1.90	0.52
1:A:149:ARG:NH2	36:A:918:HOH:O	2.42	0.52
27:A:832:CHL:CHD	27:A:833:CHL:HBB2	2.40	0.52
27:B:814:CHL:H112	27:B:814:CHL:HBD	1.92	0.51
24:b:302:LHG:O4	27:b:309:CHL:NA	2.42	0.51
14:4:188:MET:HE1	27:4:304:CHL:H2A	1.92	0.51
27:8:311:CHL:C2C	27:8:323:CHL:HMB2	2.39	0.51
13:3:161:LEU:HD22	22:3:302:BCR:HC32	1.92	0.51
27:6:307:CHL:C1C	27:6:308:CHL:HMC	2.40	0.51
22:5:301:BCR:H373	27:6:308:CHL:H52	1.91	0.51
24:4:303:LHG:H132	24:4:303:LHG:H241	1.92	0.51
14:4:153:SER:HB2	12:b:40:GLY:HA3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:b:54:PHE:CD2	27:b:311:CHL:HMC	2.46	0.51
12:b:84:ALA:CB	27:b:308:CHL:O2A	2.57	0.51
15:5:235:HIS:CG	27:5:309:CHL:HAA2	2.46	0.51
1:A:320:HIS:HB3	1:A:325:ILE:HD11	1.92	0.51
27:4:317:CHL:HAB	27:4:320:CHL:C3B	2.40	0.51
27:B:846:CHL:H41	27:B:847:CHL:H41	1.93	0.50
12:b:159:ASP:OD2	12:b:164:SER:OG	2.29	0.50
22:A:807:BCR:H313	27:A:843:CHL:HBC2	1.94	0.50
27:A:830:CHL:H12	13:3:216:ILE:HD11	1.92	0.50
27:a:311:CHL:HED3	27:a:317:CHL:H8	1.92	0.50
13:3:77:TRP:NE1	27:3:316:CHL:HED1	2.26	0.50
1:A:289:LEU:HD21	1:A:374:MET:HB3	1.94	0.50
27:K:204:CHL:H2A	27:K:204:CHL:HED3	1.93	0.50
14:4:224:LEU:HB2	29:4:301:LUT:H22	1.93	0.50
14:4:224:LEU:HD22	29:4:301:LUT:H172	1.94	0.50
27:3:310:CHL:H192	17:7:52:ASN:HD22	1.76	0.50
27:7:319:CHL:H41	27:7:319:CHL:C9	2.38	0.50
27:a:316:CHL:C4C	27:a:318:CHL:HMC	2.41	0.50
18:8:59:PRO:HD2	29:8:304:LUT:H23	1.93	0.50
15:5:139:LEU:HD21	27:5:318:CHL:H171	1.92	0.50
35:8:306:DGA:HG11	27:8:326:CHL:HED2	1.93	0.50
27:B:837:CHL:H101	27:B:848:CHL:HED1	1.93	0.50
27:6:307:CHL:H61	27:6:312:CHL:HAB	1.94	0.50
1:A:605:ILE:HG13	26:A:815:CL0:H66	1.94	0.50
27:A:846:CHL:HMA2	19:L:70:THR:HG21	1.92	0.49
14:4:59:PHE:CD2	27:4:312:CHL:HMC	2.47	0.49
27:4:313:CHL:C3C	27:4:316:CHL:HMC	2.42	0.49
27:A:816:CHL:HBC2	2:B:585:ASN:HB2	1.94	0.49
24:a:305:LHG:H312	27:8:311:CHL:HED1	1.94	0.49
27:3:316:CHL:H201	27:7:318:CHL:H43	1.94	0.49
27:5:317:CHL:HMC	27:5:317:CHL:HBC3	1.94	0.49
28:7:307:DGD:HBG2	27:7:321:CHL:HMB2	1.95	0.49
18:8:213:LEU:HD12	35:8:306:DGA:HG32	1.94	0.49
12:b:177:GLU:HG3	27:b:306:CHL:C1B	2.42	0.49
27:A:842:CHL:HBB1	27:A:842:CHL:HMB3	1.94	0.49
29:b:303:LUT:H361	29:b:303:LUT:H392	1.94	0.49
27:A:843:CHL:H172	22:J:102:BCR:H17C	1.95	0.49
27:A:843:CHL:C20	27:B:841:CHL:HBC1	2.35	0.49
2:B:299:HIS:HB3	2:B:304:ILE:HD11	1.93	0.49
27:5:309:CHL:H13	27:5:309:CHL:H61	1.95	0.49
27:8:324:CHL:HBB1	27:8:324:CHL:HMB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:J:33:PHE:HB3	30:J:101:LMG:HC2	1.95	0.49
27:a:316:CHL:HBC2	27:a:316:CHL:HMC	1.95	0.49
12:b:182:ARG:HB3	27:b:315:CHL:HBC3	1.94	0.49
12:b:84:ALA:O	27:b:308:CHL:CAA	2.61	0.49
27:A:836:CHL:H102	27:A:839:CHL:H71	1.95	0.48
27:A:855:CHL:HAB	27:A:855:CHL:H111	1.95	0.48
22:A:803:BCR:H392	22:K:202:BCR:HC8	1.93	0.48
27:3:319:CHL:H61	27:3:319:CHL:H41	1.56	0.48
27:7:313:CHL:H2	27:7:318:CHL:HMD1	1.95	0.48
27:a:315:CHL:HMB1	27:8:311:CHL:HED3	1.95	0.48
13:3:198:LYS:NZ	36:3:407:HOH:O	2.46	0.48
27:5:325:CHL:HMC	16:6:60:PHE:CD2	2.49	0.48
28:7:307:DGD:HG32	18:8:253:LEU:HD21	1.96	0.48
3:C:5:VAL:HG22	3:C:67:VAL:HG22	1.96	0.48
24:4:303:LHG:H282	24:4:303:LHG:H171	1.95	0.48
12:b:217:ASN:N	12:b:217:ASN:OD1	2.46	0.48
1:A:274:ASP:OD1	1:A:274:ASP:N	2.44	0.48
24:A:812:LHG:H161	27:A:858:CHL:HBA2	1.94	0.48
27:A:831:CHL:H61	27:A:831:CHL:H2	1.37	0.48
27:B:820:CHL:HBB2	27:B:822:CHL:HMA3	1.95	0.48
29:b:303:LUT:H402	27:b:304:CHL:HHB	1.95	0.48
14:4:118:SER:HA	27:4:316:CHL:HBC1	1.94	0.48
15:5:264:ILE:HD11	22:5:301:BCR:H14C	1.96	0.48
2:B:15:ASP:OD2	2:B:19:ARG:NH1	2.47	0.48
27:B:830:CHL:H12	30:a:301:LMG:H111	1.96	0.48
4:D:63:ILE:HB	4:D:102:ILE:HB	1.96	0.48
27:4:309:CHL:HMB2	27:4:316:CHL:HBB1	1.95	0.48
1:A:430:VAL:HG11	27:A:836:CHL:H202	1.95	0.48
22:A:804:BCR:HC8	27:A:820:CHL:H72	1.94	0.48
27:A:817:CHL:H143	27:A:858:CHL:H143	1.96	0.48
9:J:41:PHE:CD1	25:J:105:UNL:C13	2.97	0.48
18:8:168:GLU:OE2	18:8:191:LYS:NZ	2.43	0.48
27:A:846:CHL:HED2	19:L:68:LEU:HD21	1.94	0.47
2:B:176:ASN:ND2	2:B:291:TYR:O	2.46	0.47
22:6:301:BCR:H19C	27:6:316:CHL:NB	2.28	0.47
1:A:116:GLN:HB3	1:A:138:VAL:HB	1.96	0.47
14:4:231:PRO:O	14:4:235:ASN:ND2	2.44	0.47
2:B:338:LEU:HD21	27:B:837:CHL:HAB	1.96	0.47
27:B:844:CHL:H93	27:B:845:CHL:HBC1	1.96	0.47
9:J:12:PRO:HB2	29:J:103:LUT:H363	1.96	0.47
27:3:317:CHL:H61	27:3:317:CHL:H41	1.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:6:65:LEU:HB3	16:6:67:LEU:HD13	1.97	0.47
2:B:524:ALA:HB2	27:B:844:CHL:HMA1	1.96	0.47
27:4:316:CHL:HAA2	27:4:316:CHL:CGD	2.44	0.47
27:6:316:CHL:HAB	27:6:318:CHL:HBB2	1.97	0.47
12:b:177:GLU:HG3	27:b:306:CHL:NB	2.30	0.47
24:A:812:LHG:HC92	27:A:858:CHL:HED3	1.96	0.47
23:B:810:LMT:H21	27:B:820:CHL:H11	1.95	0.47
27:B:839:CHL:HBA1	6:F:234:LEU:HD21	1.95	0.47
24:a:305:LHG:H262	27:a:310:CHL:HAC2	1.95	0.47
16:6:64:PRO:HD2	29:6:303:LUT:H23	1.95	0.47
29:7:304:LUT:H162	27:7:318:CHL:HBC1	1.95	0.47
24:5:304:LHG:H102	24:5:304:LHG:H132	1.54	0.47
27:5:313:CHL:H61	27:5:313:CHL:H41	1.57	0.47
17:7:217:ALA:HB2	29:7:304:LUT:H192	1.96	0.47
27:b:310:CHL:H2A	27:b:310:CHL:HED2	1.95	0.47
1:A:150:ALA:HB2	1:A:378:PRO:HD2	1.96	0.47
1:A:363:LEU:HD11	27:A:834:CHL:H51	1.97	0.47
27:A:831:CHL:HBA2	24:7:302:LHG:H242	1.96	0.47
13:3:137:GLN:HG2	27:7:319:CHL:HBA1	1.96	0.47
27:3:313:CHL:H43	27:5:321:CHL:HED2	1.97	0.47
27:5:316:CHL:H122	27:6:308:CHL:HBD	1.96	0.47
1:A:18:ASP:OD1	1:A:187:LYS:NZ	2.46	0.47
27:a:316:CHL:HED2	27:a:316:CHL:HAA1	1.96	0.47
27:A:841:CHL:H3A	27:A:841:CHL:HBA2	1.69	0.46
2:B:174:ARG:HB2	27:B:822:CHL:HBC2	1.96	0.46
22:3:302:BCR:HC31	15:5:70:LEU:HD22	1.96	0.46
15:5:97:VAL:HG11	29:5:302:LUT:H12	1.96	0.46
27:8:314:CHL:H52	27:8:320:CHL:H42	1.97	0.46
27:8:314:CHL:HAA2	27:8:314:CHL:O1D	2.15	0.46
27:b:309:CHL:HED2	27:b:309:CHL:HAA1	1.97	0.46
16:6:41:LEU:HD22	16:6:41:LEU:HA	1.77	0.46
24:A:812:LHG:H111	27:A:845:CHL:H41	1.97	0.46
2:B:275:HIS:HB3	27:B:851:CHL:HMB2	1.97	0.46
22:K:203:BCR:H391	27:K:207:CHL:HED3	1.97	0.46
14:4:43:PRO:HD2	27:4:312:CHL:HED2	1.97	0.46
27:A:841:CHL:H52	27:A:852:CHL:H2	1.97	0.46
2:B:191:THR:HG21	2:B:278:LEU:HB2	1.96	0.46
2:B:619:TRP:O	2:B:623:TYR:HB3	2.15	0.46
12:a:113:PRO:HB2	12:a:120:VAL:HB	1.98	0.46
2:B:150:LEU:HD22	11:M:22:ALA:HA	1.97	0.46
6:F:81:ASP:HB3	6:F:82:ILE:H	1.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3:129:PHE:HE1	24:7:302:LHG:H202	1.80	0.46
14:4:243:ARG:HH12	27:4:317:CHL:C1A	2.29	0.46
12:b:168:LYS:HG3	12:b:169:VAL:HG13	1.97	0.46
27:b:311:CHL:O1D	27:b:311:CHL:HAA1	2.15	0.46
27:B:816:CHL:H102	22:I:801:BCR:HC41	1.96	0.46
14:4:174:PRO:HB3	27:4:314:CHL:HBC2	1.98	0.46
14:4:203:MET:HB3	29:4:302:LUT:H402	1.98	0.46
18:8:93:PRO:HB3	18:8:104:LEU:HD12	1.98	0.46
1:A:373:SER:HB3	27:A:842:CHL:HAC2	1.98	0.46
27:5:316:CHL:H52	27:5:316:CHL:H8	1.49	0.46
2:B:456:GLU:OE1	6:F:150:HIS:ND1	2.48	0.46
12:a:161:LEU:HD12	29:a:302:LUT:H222	1.98	0.46
27:3:315:CHL:HBB1	24:7:302:LHG:H252	1.97	0.46
19:L:80:GLY:O	19:L:84:ASN:ND2	2.49	0.46
27:A:837:CHL:HMB1	27:A:838:CHL:H2	1.97	0.46
27:A:853:CHL:H141	27:A:853:CHL:H161	1.81	0.46
27:B:833:CHL:H43	27:B:844:CHL:HBA1	1.98	0.46
27:B:837:CHL:H41	27:B:837:CHL:H61	1.56	0.46
13:3:206:ALA:HB2	29:3:304:LUT:H192	1.97	0.46
14:4:179:ASP:OD1	29:4:301:LUT:O23	2.31	0.46
1:A:213:TRP:NE1	27:A:834:CHL:O1D	2.38	0.46
27:A:821:CHL:H71	27:A:845:CHL:HBC3	1.97	0.46
27:B:822:CHL:H92	27:B:832:CHL:H42	1.97	0.46
27:5:319:CHL:HBA1	27:5:319:CHL:H3A	1.72	0.46
16:6:136:MET:HA	16:6:139:VAL:HG22	1.97	0.46
1:A:441:LEU:HD21	1:A:547:VAL:HG12	1.98	0.45
2:B:424:TRP:HZ3	27:B:845:CHL:HBC2	1.81	0.45
11:M:5:ASP:N	11:M:5:ASP:OD1	2.50	0.45
27:4:313:CHL:C2C	27:4:316:CHL:HMC	2.46	0.45
22:5:301:BCR:H402	27:5:316:CHL:H3A	1.98	0.45
1:A:349:TRP:HB3	27:A:820:CHL:HAC1	1.98	0.45
6:F:98:GLN:NE2	36:F:407:HOH:O	2.47	0.45
13:3:137:GLN:NE2	27:3:310:CHL:O1D	2.49	0.45
27:A:830:CHL:H191	29:3:305:LUT:H8	1.98	0.45
27:A:841:CHL:H43	27:A:853:CHL:HBA1	1.98	0.45
27:A:855:CHL:HAA2	27:B:839:CHL:HMB1	1.98	0.45
27:6:317:CHL:H3A	27:6:317:CHL:HBA2	1.34	0.45
12:b:97:GLN:CB	27:b:308:CHL:HAC2	2.43	0.45
22:B:807:BCR:H20C	22:B:807:BCR:H361	1.84	0.45
14:4:170:GLU:HB2	14:4:173:TYR:HB2	1.97	0.45
27:5:308:CHL:C2D	27:5:313:CHL:H52	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:8:321:CHL:H3A	27:8:321:CHL:HBA2	1.41	0.45
27:A:835:CHL:H3A	27:A:835:CHL:HBA2	1.61	0.45
6:F:102:ILE:HD12	6:F:126:ILE:HG23	1.97	0.45
15:5:154:TRP:HE1	23:5:306:LMT:H2'	1.81	0.45
29:5:303:LUT:C19	27:5:316:CHL:HAB	2.32	0.45
22:A:805:BCR:H20C	22:A:805:BCR:H361	1.80	0.45
27:A:828:CHL:HAA2	27:A:840:CHL:H52	1.99	0.45
27:A:831:CHL:H62	24:7:302:LHG:H121	1.99	0.45
27:A:834:CHL:H92	27:A:844:CHL:H91	1.98	0.45
22:B:802:BCR:H20C	22:B:802:BCR:H361	1.83	0.45
27:B:831:CHL:HBB2	27:B:849:CHL:H52	1.97	0.45
27:B:840:CHL:H62	27:B:840:CHL:H2	1.68	0.45
27:7:319:CHL:HBA2	27:7:319:CHL:H3A	1.45	0.45
24:A:811:LHG:H302	27:A:839:CHL:H172	1.98	0.45
30:J:101:LMG:O4	30:J:101:LMG:O5	2.33	0.45
24:a:305:LHG:H223	24:a:305:LHG:H192	1.79	0.45
17:7:141:GLN:OE1	27:7:320:CHL:HMC	2.17	0.45
29:b:303:LUT:C30	27:b:306:CHL:HAB	2.40	0.45
27:B:816:CHL:HHB	27:B:817:CHL:HHB	1.99	0.45
27:B:830:CHL:H92	27:B:830:CHL:H62	1.87	0.45
27:a:320:CHL:HBA1	27:a:320:CHL:H3A	1.76	0.45
17:7:202:LYS:HD3	27:7:317:CHL:HED1	1.98	0.45
27:7:311:CHL:HBC1	27:7:322:CHL:H72	1.99	0.45
27:b:308:CHL:C3B	27:b:317:CHL:C3C	2.95	0.45
27:A:839:CHL:H102	27:A:841:CHL:HMB3	1.98	0.45
27:A:853:CHL:H122	27:A:854:CHL:HBC1	1.98	0.45
22:A:803:BCR:H362	22:A:804:BCR:H21C	1.97	0.45
2:B:339:ALA:HB2	22:B:806:BCR:H372	1.99	0.45
4:D:78:GLU:HG2	4:D:79:GLU:HG2	1.98	0.45
15:5:267:THR:OG1	32:5:305:PTY:O10	2.35	0.45
17:7:92:ARG:HA	17:7:95:MET:HE3	1.99	0.45
1:A:29:TRP:NE1	27:A:826:CHL:O1A	2.50	0.44
2:B:53:GLN:HG2	27:B:814:CHL:H3A	1.99	0.44
29:4:301:LUT:H201	29:4:301:LUT:H15	1.75	0.44
16:6:201:ALA:HB2	29:6:302:LUT:H192	1.99	0.44
28:7:307:DGD:HG12	28:7:307:DGD:HAF2	2.00	0.44
27:A:824:CHL:HAB	27:A:824:CHL:HHC	1.78	0.44
27:A:831:CHL:CMC	24:7:302:LHG:H301	2.47	0.44
2:B:5:PHE:HB2	8:I:30:ILE:HA	1.99	0.44
16:6:101:VAL:HG12	16:6:102:ARG:HG3	1.99	0.44
19:L:115:LYS:HG2	27:L:304:CHL:HMA1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A:843:CHL:H162	27:A:843:CHL:H202	1.47	0.44
12:a:47:LEU:HD11	12:a:57:ASP:HB2	2.00	0.44
13:3:74:HIS:HD2	29:3:305:LUT:H15	1.82	0.44
14:4:215:THR:HG22	14:4:243:ARG:HH11	1.82	0.44
24:4:303:LHG:H111	24:4:303:LHG:HC81	1.49	0.44
27:5:311:CHL:HHC	27:5:311:CHL:HAB	1.82	0.44
16:6:238:VAL:HB	27:6:308:CHL:C1C	2.47	0.44
1:A:198:LEU:HG	27:A:840:CHL:HMD2	2.00	0.44
1:A:572:ARG:NH1	27:A:845:CHL:O1D	2.51	0.44
2:B:411:ILE:HA	2:B:414:HIS:CE1	2.52	0.44
16:6:142:ARG:NH2	27:6:319:CHL:HMC	2.32	0.44
2:B:69:ALA:HB2	2:B:135:LEU:HB2	2.00	0.44
2:B:425:VAL:HG23	27:B:844:CHL:HBB1	2.00	0.44
22:B:806:BCR:H313	27:B:842:CHL:HAB	1.99	0.44
27:8:311:CHL:C1C	27:8:323:CHL:CMB	2.94	0.44
27:b:316:CHL:HMC	27:b:317:CHL:CHC	2.47	0.44
2:B:340:SER:HA	27:B:834:CHL:H51	2.00	0.44
25:J:105:UNL:C18	35:8:306:DGA:CDA	2.96	0.44
29:a:302:LUT:H201	29:a:302:LUT:H15	1.76	0.44
16:6:89:MET:SD	27:6:306:CHL:HAB	2.57	0.44
17:7:212:ARG:HA	17:7:215:MET:HE3	1.98	0.44
1:A:91:MET:HE1	27:A:823:CHL:HMA2	2.00	0.44
1:A:510:TRP:HH2	27:A:852:CHL:HED2	1.83	0.44
22:B:807:BCR:H23C	27:B:848:CHL:HAC2	2.00	0.44
12:a:145:GLU:HG2	27:a:319:CHL:HBC1	2.00	0.44
22:7:303:BCR:H21C	27:7:322:CHL:H62	1.99	0.44
1:A:706:LYS:NZ	6:F:237:ASP:OD1	2.47	0.44
22:A:805:BCR:H15C	22:A:805:BCR:H351	1.90	0.44
27:A:843:CHL:C17	22:J:102:BCR:H19C	2.45	0.44
20:B:801:PQN:H241	27:B:848:CHL:HBA2	1.99	0.44
22:B:802:BCR:H15C	22:B:802:BCR:H351	1.87	0.44
27:B:818:CHL:H93	27:B:818:CHL:H61	1.86	0.44
13:3:201:ARG:HA	13:3:204:MET:HE3	1.99	0.44
27:4:309:CHL:CMB	27:4:316:CHL:HBB1	2.48	0.44
27:8:312:CHL:H193	27:8:312:CHL:H161	1.79	0.44
2:B:257:PHE:CE2	27:B:851:CHL:HBB1	2.52	0.43
28:7:307:DGD:HAT2	28:7:307:DGD:HA72	1.75	0.43
27:8:323:CHL:HBA1	27:8:323:CHL:H3A	1.65	0.43
12:b:183:LEU:HD21	27:b:309:CHL:HAC1	2.00	0.43
27:b:308:CHL:HBC3	27:b:308:CHL:HHD	1.98	0.43
1:A:267:ILE:HD11	27:K:205:CHL:HHD	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:806:BCR:H15C	22:B:806:BCR:H351	1.84	0.43
27:B:830:CHL:HBA1	30:a:301:LMG:H302	1.99	0.43
24:a:305:LHG:HC92	24:a:305:LHG:H121	1.87	0.43
27:4:316:CHL:HAA2	27:4:316:CHL:O2D	2.18	0.43
16:6:272:PRO:CB	27:6:308:CHL:HAB	2.47	0.43
27:6:317:CHL:HBB2	27:6:319:CHL:CHC	2.48	0.43
1:A:584:CYS:HB2	2:B:667:TRP:HB3	2.00	0.43
27:B:822:CHL:H61	27:B:822:CHL:H102	1.90	0.43
13:3:36:LEU:HD21	13:3:52:LEU:HD23	2.00	0.43
13:3:145:GLN:OE1	13:3:148:ARG:NH2	2.48	0.43
27:3:310:CHL:H111	17:7:48:TRP:HH2	1.83	0.43
14:4:201:LEU:HG	29:4:301:LUT:H11	2.00	0.43
27:4:309:CHL:HMA2	27:4:316:CHL:HAC2	1.99	0.43
27:6:308:CHL:H91	27:6:308:CHL:H112	1.76	0.43
14:4:215:THR:CG2	27:4:317:CHL:C1D	2.97	0.43
1:A:371:MET:HE2	1:A:371:MET:HB3	1.90	0.43
27:A:825:CHL:H91	27:A:825:CHL:H111	1.79	0.43
8:I:14:VAL:HG22	22:I:801:BCR:H333	2.00	0.43
24:4:303:LHG:H131	24:4:303:LHG:H102	1.63	0.43
27:5:317:CHL:HAB	27:5:322:CHL:CMC	2.49	0.43
27:6:307:CHL:H18	27:6:312:CHL:HED3	2.00	0.43
17:7:72:SER:HB2	30:7:301:LMG:HC92	2.01	0.43
1:A:684:MET:HB2	27:A:817:CHL:NC	2.34	0.43
27:A:831:CHL:HAA1	27:A:831:CHL:HBD	1.99	0.43
27:A:837:CHL:HMD2	22:K:202:BCR:H24C	2.00	0.43
27:A:856:CHL:H42	9:J:15:ALA:HA	2.01	0.43
4:D:115:LYS:HE3	4:D:147:LEU:HD13	2.00	0.43
27:5:309:CHL:H41	27:5:309:CHL:H62	1.68	0.43
22:8:302:BCR:H24C	22:8:302:BCR:H371	1.81	0.43
22:8:302:BCR:H21C	27:8:317:CHL:H122	2.01	0.43
27:A:855:CHL:H62	27:A:855:CHL:H102	1.80	0.43
2:B:301:MET:HE2	2:B:301:MET:HB3	1.87	0.43
2:B:341:VAL:HG21	27:B:814:CHL:H41	2.00	0.43
2:B:478:LEU:HD22	2:B:494:LEU:HD11	2.00	0.43
27:4:313:CHL:C4C	27:4:316:CHL:HMC	2.49	0.43
24:b:302:LHG:HC42	27:b:311:CHL:HAC1	2.00	0.43
2:B:157:LEU:O	2:B:162:GLN:NE2	2.41	0.43
22:K:203:BCR:H15C	22:K:203:BCR:H351	1.89	0.43
29:3:305:LUT:H15	29:3:305:LUT:H201	1.75	0.43
15:5:77:GLU:CD	15:5:77:GLU:H	2.27	0.43
27:6:306:CHL:H92	27:6:306:CHL:H61	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:7:313:CHL:H72	27:7:319:CHL:H62	2.00	0.43
12:b:217:ASN:HA	27:b:305:CHL:HED2	2.01	0.43
1:A:684:MET:HB2	27:A:817:CHL:C1C	2.48	0.43
24:a:305:LHG:H132	24:a:305:LHG:H162	1.86	0.43
22:3:302:BCR:H311	27:3:316:CHL:H152	2.01	0.43
15:5:202:LYS:HD3	27:5:308:CHL:HBD	2.00	0.43
27:5:315:CHL:HBA1	27:5:315:CHL:HED2	2.01	0.43
27:6:306:CHL:H61	27:6:306:CHL:H41	1.82	0.43
27:6:316:CHL:C1C	27:6:318:CHL:HMC	2.48	0.43
22:7:303:BCR:C23	27:7:322:CHL:H2	2.49	0.43
1:A:692:TYR:CE2	27:A:817:CHL:HMD1	2.54	0.43
27:A:824:CHL:H72	27:A:824:CHL:H112	1.84	0.43
22:K:203:BCR:H24C	22:K:203:BCR:H371	1.80	0.43
13:3:142:ARG:NH1	27:7:319:CHL:OBD	2.43	0.43
14:4:134:LEU:HD23	14:4:134:LEU:HA	1.89	0.43
29:5:302:LUT:H201	29:5:302:LUT:H15	1.78	0.43
27:5:308:CHL:HED3	27:5:313:CHL:H72	2.01	0.43
12:b:64:THR:HG22	12:b:67:ASN:H	1.84	0.43
2:B:358:TYR:OH	27:B:836:CHL:OBD	2.26	0.42
2:B:435:GLY:HA3	27:B:841:CHL:HAB	1.99	0.42
27:B:834:CHL:H191	27:B:849:CHL:H152	2.01	0.42
22:3:302:BCR:H11C	22:3:302:BCR:H341	1.89	0.42
16:6:142:ARG:CZ	27:6:319:CHL:HMC	2.48	0.42
27:6:316:CHL:H3A	27:6:316:CHL:HBA2	1.49	0.42
22:A:804:BCR:H20C	22:A:804:BCR:H361	1.79	0.42
2:B:395:VAL:HG23	2:B:541:ALA:HB1	2.01	0.42
27:a:310:CHL:H51	27:a:311:CHL:H3A	2.01	0.42
27:a:316:CHL:HBC3	27:a:318:CHL:C2C	2.50	0.42
27:a:318:CHL:HBA1	27:a:318:CHL:H3A	1.87	0.42
27:3:310:CHL:H2	27:3:310:CHL:H62	1.70	0.42
27:4:311:CHL:HED2	16:6:134:PHE:HE2	1.83	0.42
15:5:208:ARG:HA	15:5:211:MET:HE3	2.01	0.42
27:A:832:CHL:H122	27:A:832:CHL:H8	1.94	0.42
27:A:839:CHL:H162	27:A:839:CHL:H91	2.00	0.42
27:A:847:CHL:H61	27:A:847:CHL:H41	1.74	0.42
3:C:29:VAL:HG21	4:D:164:ALA:HB2	2.00	0.42
14:4:243:ARG:HH12	27:4:317:CHL:CHA	2.32	0.42
27:4:315:CHL:H3A	34:8:301:SQD:H91	2.01	0.42
27:5:316:CHL:H2	27:5:316:CHL:H61	1.65	0.42
27:6:305:CHL:H3A	27:6:305:CHL:HBA2	1.62	0.42
18:8:187:TYR:CZ	18:8:191:LYS:HE3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:81:LEU:HD22	27:A:820:CHL:H92	2.01	0.42
1:A:707:LEU:HD13	29:F:303:LUT:H383	2.01	0.42
27:A:834:CHL:H72	27:A:834:CHL:H111	1.80	0.42
27:B:835:CHL:O1D	27:B:836:CHL:HHB	2.19	0.42
27:B:841:CHL:H62	27:B:841:CHL:H41	1.59	0.42
27:B:846:CHL:H191	19:L:105:HIS:HD2	1.83	0.42
4:D:130:LYS:HA	4:D:130:LYS:HD2	1.96	0.42
24:a:305:LHG:HC82	24:a:305:LHG:H291	2.01	0.42
27:a:318:CHL:HAA2	27:a:318:CHL:CGD	2.50	0.42
13:3:120:LYS:HA	13:3:120:LYS:HD2	1.86	0.42
15:5:213:ALA:HB2	29:5:302:LUT:H192	2.00	0.42
24:7:306:LHG:HC31	27:7:317:CHL:C1B	2.48	0.42
30:8:307:LMG:H302	27:8:316:CHL:H12	2.00	0.42
12:b:143:ASN:OD1	12:b:143:ASN:N	2.52	0.42
23:A:808:LMT:H52	24:7:302:LHG:H342	2.02	0.42
23:B:810:LMT:H42	27:B:820:CHL:HBA2	2.02	0.42
29:8:303:LUT:H201	29:8:303:LUT:H15	1.71	0.42
27:B:820:CHL:H203	27:B:820:CHL:H162	1.90	0.42
27:B:839:CHL:HHC	27:B:839:CHL:HAB	1.87	0.42
14:4:94:ILE:HG13	29:4:302:LUT:H182	2.01	0.42
27:b:315:CHL:H3A	27:b:315:CHL:HBA2	1.75	0.42
22:A:803:BCR:H403	22:K:202:BCR:H10C	2.01	0.42
2:B:670:TYR:OH	27:B:812:CHL:OBD	2.30	0.42
23:B:810:LMT:H4'	27:B:820:CHL:HED2	2.01	0.42
27:B:815:CHL:H151	27:B:836:CHL:HBB2	2.01	0.42
22:3:303:BCR:H24C	22:3:303:BCR:H371	1.81	0.42
2:B:48:ALA:HB3	11:M:29:LEU:HD21	2.02	0.42
5:E:13:LEU:HD12	5:E:13:LEU:HA	1.95	0.42
12:a:210:LEU:HD23	12:a:210:LEU:HA	1.90	0.42
24:a:305:LHG:H121	22:8:302:BCR:HC42	2.02	0.42
22:3:301:BCR:H11C	22:3:301:BCR:H341	1.88	0.42
29:3:304:LUT:H15	29:3:304:LUT:H201	1.76	0.42
15:5:205:LYS:HE3	24:5:304:LHG:HC42	2.02	0.42
22:5:301:BCR:H332	16:6:244:ILE:HG21	2.02	0.42
16:6:196:ARG:NH2	27:6:311:CHL:HED3	2.35	0.42
27:7:323:CHL:H2	27:7:323:CHL:H62	1.59	0.42
18:8:204:ALA:HB2	29:8:303:LUT:H192	2.01	0.42
29:8:303:LUT:H391	27:8:312:CHL:H172	2.02	0.42
27:A:850:CHL:H162	27:A:850:CHL:H141	1.80	0.42
2:B:399:ASP:HB3	2:B:402:GLN:HB2	2.01	0.42
23:B:810:LMT:H112	23:B:810:LMT:H81	1.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:4:301:LUT:H371	27:4:304:CHL:H61	2.02	0.42
15:5:199:VAL:HG22	27:5:307:CHL:HBB	2.02	0.42
27:b:308:CHL:CAB	27:b:317:CHL:CAC	2.91	0.42
1:A:80:GLN:HG2	27:A:820:CHL:H3A	2.02	0.42
1:A:291:LEU:HD23	1:A:291:LEU:HA	1.92	0.42
1:A:419:PRO:HG3	4:D:94:GLU:HB2	2.02	0.42
22:A:804:BCR:H11C	22:A:804:BCR:H341	1.93	0.42
27:A:848:CHL:H143	20:B:801:PQN:H191	2.02	0.42
24:a:305:LHG:H182	24:a:305:LHG:H151	1.62	0.42
27:a:309:CHL:HAB	27:a:309:CHL:H8	2.02	0.42
24:4:303:LHG:H342	24:4:303:LHG:H371	1.67	0.42
27:7:322:CHL:HBB1	27:7:322:CHL:HMB1	2.01	0.42
22:L:301:BCR:H281	27:L:303:CHL:CHD	2.49	0.42
12:b:147:ASP:HB3	12:b:150:LYS:HB2	2.01	0.42
1:A:226:LYS:HD3	1:A:253:LEU:HB3	2.02	0.41
27:A:833:CHL:H93	27:A:833:CHL:H111	1.89	0.41
27:B:816:CHL:HAA2	27:B:818:CHL:HED1	2.02	0.41
27:B:837:CHL:HAB	27:B:837:CHL:HHC	1.84	0.41
27:5:318:CHL:H191	27:6:307:CHL:HBC1	2.02	0.41
16:6:210:GLN:HA	16:6:250:ILE:HD12	2.01	0.41
17:7:86:ALA:HB2	27:7:321:CHL:HED1	2.02	0.41
29:8:303:LUT:H32	27:8:312:CHL:HHC	2.01	0.41
27:A:848:CHL:H51	22:B:807:BCR:H372	2.02	0.41
6:F:226:ARG:HA	6:F:226:ARG:HD2	1.91	0.41
27:5:325:CHL:H3A	27:5:325:CHL:HBA2	1.86	0.41
18:8:133:PHE:HA	18:8:136:VAL:HG22	2.02	0.41
27:8:321:CHL:H62	27:8:321:CHL:H41	1.70	0.41
12:b:84:ALA:C	27:b:308:CHL:CAA	2.93	0.41
12:b:139:GLU:OE2	12:b:142:ARG:NH1	2.53	0.41
27:b:313:CHL:HBA2	27:b:313:CHL:H3A	1.52	0.41
1:A:361:GLY:HA2	1:A:398:GLY:HA2	2.03	0.41
27:A:843:CHL:H161	27:A:843:CHL:H141	1.25	0.41
3:C:61:ASP:HA	3:C:62:PHE:HA	1.86	0.41
10:K:78:ASN:ND2	10:K:101:GLY:O	2.52	0.41
22:K:203:BCR:H11C	22:K:203:BCR:H341	1.93	0.41
22:K:203:BCR:H20C	22:K:203:BCR:H361	1.93	0.41
24:a:305:LHG:H151	27:a:315:CHL:H2	2.02	0.41
13:3:111:VAL:HG21	29:3:305:LUT:H172	2.02	0.41
22:3:302:BCR:HC7	27:3:316:CHL:HMB2	2.02	0.41
27:3:315:CHL:H61	27:3:315:CHL:H41	1.78	0.41
14:4:203:MET:SD	27:4:307:CHL:HAB	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:4:303:LHG:H222	27:4:306:CHL:H61	2.01	0.41
16:6:41:LEU:HD21	16:6:48:ALA:HB2	2.01	0.41
1:A:395:THR:HG22	1:A:603:LEU:HG	2.03	0.41
27:A:818:CHL:HBB2	27:A:826:CHL:H122	2.02	0.41
27:A:828:CHL:H152	27:A:828:CHL:H112	1.89	0.41
27:A:857:CHL:HAB	27:A:857:CHL:HHC	1.82	0.41
27:B:814:CHL:H3A	27:B:814:CHL:HBA1	1.91	0.41
27:B:821:CHL:HAB	27:B:821:CHL:HHC	1.87	0.41
13:3:123:LEU:HG	13:3:127:SER:HB2	2.02	0.41
27:7:322:CHL:H112	27:7:323:CHL:HED2	2.03	0.41
12:b:39:PRO:HD2	27:b:311:CHL:CED	2.50	0.41
1:A:574:PRO:HB3	1:A:720:ILE:HB	2.02	0.41
22:A:807:BCR:H313	27:A:843:CHL:CBC	2.50	0.41
27:B:844:CHL:HHC	27:B:844:CHL:HAB	1.80	0.41
29:F:303:LUT:H193	29:F:303:LUT:H7	1.92	0.41
12:a:39:PRO:HB3	18:8:155:SER:HA	2.01	0.41
22:5:301:BCR:H24C	27:5:316:CHL:HBA1	2.02	0.41
24:5:304:LHG:H151	24:5:304:LHG:H121	1.92	0.41
27:5:311:CHL:HED3	27:6:308:CHL:H142	2.03	0.41
18:8:86:ALA:HB2	29:8:304:LUT:H192	2.03	0.41
22:8:302:BCR:H11C	22:8:302:BCR:H341	1.90	0.41
12:b:52:GLY:HA2	12:b:175:LEU:HD12	2.01	0.41
1:A:333:PHE:CE1	27:A:846:CHL:H11	2.55	0.41
27:A:822:CHL:H51	27:A:822:CHL:H11	1.85	0.41
27:A:855:CHL:H172	6:F:185:GLY:HA2	2.01	0.41
6:F:208:PRO:HD3	30:J:104:LMG:HC72	2.03	0.41
24:a:305:LHG:H171	24:a:305:LHG:H201	1.83	0.41
15:5:153:ARG:NH2	27:5:318:CHL:O1D	2.50	0.41
15:5:156:ASP:HB2	27:5:317:CHL:HAC1	2.03	0.41
17:7:161:SER:HB2	18:8:41:GLY:HA2	2.01	0.41
27:b:308:CHL:CBB	27:b:317:CHL:CHD	2.48	0.41
2:B:299:HIS:CE1	27:B:829:CHL:NA	2.89	0.41
15:5:118:PRO:HA	15:5:121:LEU:HD12	2.03	0.41
12:b:47:LEU:HD11	12:b:57:ASP:HB2	2.02	0.41
1:A:373:SER:HB2	27:A:842:CHL:HMC	2.03	0.41
22:3:301:BCR:H15C	22:3:301:BCR:H351	1.86	0.41
27:5:323:CHL:H11	27:5:323:CHL:H52	1.88	0.41
1:A:14:LYS:HB3	1:A:14:LYS:HE2	1.73	0.41
1:A:373:SER:CB	27:A:842:CHL:HAC2	2.51	0.41
27:A:830:CHL:HAB	27:A:830:CHL:HHC	1.88	0.41
27:A:842:CHL:H2	27:A:842:CHL:H71	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:374:HIS:HE2	27:B:836:CHL:C1B	2.34	0.41
22:B:805:BCR:H20C	22:B:805:BCR:H361	1.92	0.41
27:B:818:CHL:H41	27:B:818:CHL:H62	1.85	0.41
5:E:66:GLU:OE1	5:E:66:GLU:N	2.51	0.41
6:F:155:PRO:HD3	29:F:303:LUT:H162	2.03	0.41
13:3:70:SER:OG	27:3:311:CHL:OBD	2.37	0.41
27:4:314:CHL:HBB2	27:4:319:CHL:HBD	2.03	0.41
27:4:317:CHL:HAB	27:4:320:CHL:C4B	2.51	0.41
27:5:311:CHL:CED	27:6:308:CHL:H142	2.51	0.41
16:6:220:LEU:HB2	29:6:302:LUT:H22	2.03	0.41
18:8:55:TYR:CE2	27:8:314:CHL:HMC	2.56	0.41
22:L:302:BCR:H15C	22:L:302:BCR:H351	1.87	0.41
22:A:807:BCR:H361	22:A:807:BCR:H20C	1.76	0.41
27:A:832:CHL:HHC	27:A:832:CHL:HAB	1.84	0.41
2:B:142:LEU:HD23	2:B:142:LEU:HA	1.93	0.41
22:B:806:BCR:H20C	22:B:806:BCR:H361	1.89	0.41
27:4:306:CHL:HBC2	27:4:317:CHL:CBC	2.39	0.41
17:7:164:ASP:OD1	17:7:166:SER:OG	2.37	0.41
27:b:315:CHL:H91	27:b:315:CHL:H111	1.90	0.41
27:A:817:CHL:O1A	2:B:430:GLY:HA3	2.21	0.40
27:A:842:CHL:O1D	27:A:842:CHL:HAA2	2.21	0.40
27:A:843:CHL:HHD	27:A:843:CHL:HAC2	1.91	0.40
4:D:59:THR:HB	4:D:109:LEU:HB2	2.04	0.40
22:J:102:BCR:H20C	22:J:102:BCR:H361	1.84	0.40
27:3:308:CHL:HHC	27:3:308:CHL:HAB	1.81	0.40
12:b:54:PHE:CE2	27:b:311:CHL:HMC	2.55	0.40
12:b:171:GLU:OE2	12:b:174:LYS:NZ	2.43	0.40
29:b:303:LUT:H11	29:b:303:LUT:H191	1.93	0.40
1:A:673:LEU:HD11	2:B:617:MET:HB2	2.02	0.40
27:A:826:CHL:H41	27:A:826:CHL:H62	1.79	0.40
2:B:190:TRP:NE1	27:B:827:CHL:O1D	2.41	0.40
12:a:73:GLU:H	12:a:73:GLU:HG3	1.69	0.40
27:6:308:CHL:H51	27:6:308:CHL:H11	1.81	0.40
27:6:318:CHL:O2A	27:6:318:CHL:H3A	2.21	0.40
27:7:313:CHL:H152	27:7:313:CHL:H111	1.82	0.40
12:b:73:GLU:H	12:b:73:GLU:HG3	1.64	0.40
12:b:221:ASN:OD1	12:b:221:ASN:N	2.53	0.40
27:A:831:CHL:H51	27:3:315:CHL:H51	2.02	0.40
27:A:853:CHL:H121	27:A:853:CHL:H8	1.86	0.40
13:3:52:LEU:HD13	27:3:320:CHL:HBA2	2.04	0.40
13:3:225:LEU:HD22	29:3:304:LUT:H172	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:5:262:ILE:HD11	22:5:301:BCR:H12C	2.03	0.40
16:6:97:VAL:HG11	27:6:313:CHL:HAC2	2.04	0.40
22:B:804:BCR:H371	22:B:804:BCR:H24C	1.87	0.40
27:B:815:CHL:H92	27:B:815:CHL:H61	1.81	0.40
23:F:302:LMT:H32	29:F:303:LUT:H401	2.04	0.40
9:J:31:ARG:NH2	27:J:106:CHL:O1D	2.46	0.40
24:a:305:LHG:H142	24:a:305:LHG:H112	1.69	0.40
22:5:301:BCR:H11C	22:5:301:BCR:H341	1.90	0.40
27:5:309:CHL:H61	27:5:309:CHL:H102	1.58	0.40
27:7:319:CHL:H92	27:7:319:CHL:H61	1.59	0.40
27:8:314:CHL:H71	27:8:314:CHL:H112	1.76	0.40
19:L:174:PRO:O	19:L:177:THR:OG1	2.39	0.40
27:b:315:CHL:H141	27:b:315:CHL:H162	1.92	0.40
1:A:448:LEU:HD23	24:A:810:LHG:H221	2.04	0.40
1:A:605:ILE:HD12	26:A:815:CL0:H53	2.04	0.40
27:A:840:CHL:HHC	27:A:840:CHL:HAB	1.80	0.40
2:B:23:TYR:CE2	28:B:809:DGD:HG32	2.57	0.40
27:B:816:CHL:HHB	27:B:817:CHL:HMB3	2.03	0.40
6:F:195:GLU:OE2	6:F:201:LYS:NZ	2.50	0.40
29:3:304:LUT:H27	29:3:304:LUT:H361	1.91	0.40
27:5:315:CHL:H111	27:5:315:CHL:H72	1.83	0.40
22:7:303:BCR:H372	27:7:322:CHL:H8	2.03	0.40
22:8:302:BCR:H15C	22:8:302:BCR:H351	1.85	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	739/751 (98%)	720 (97%)	19 (3%)	0	100	100
2	B	732/734 (100%)	719 (98%)	13 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	C	78/81 (96%)	76 (97%)	2 (3%)	0	100	100
4	D	141/192 (73%)	138 (98%)	3 (2%)	0	100	100
5	E	58/71 (82%)	57 (98%)	1 (2%)	0	100	100
6	F	163/245 (66%)	161 (99%)	2 (1%)	0	100	100
7	G	18/138 (13%)	17 (94%)	1 (6%)	0	100	100
8	I	31/36 (86%)	31 (100%)	0	0	100	100
9	J	39/41 (95%)	38 (97%)	1 (3%)	0	100	100
10	K	80/131 (61%)	80 (100%)	0	0	100	100
11	M	29/31 (94%)	29 (100%)	0	0	100	100
12	a	193/229 (84%)	188 (97%)	5 (3%)	0	100	100
12	b	188/229 (82%)	177 (94%)	9 (5%)	2 (1%)	11	4
13	3	218/246 (89%)	214 (98%)	4 (2%)	0	100	100
14	4	205/246 (83%)	198 (97%)	7 (3%)	0	100	100
15	5	229/274 (84%)	219 (96%)	10 (4%)	0	100	100
16	6	232/272 (85%)	227 (98%)	5 (2%)	0	100	100
17	7	214/259 (83%)	209 (98%)	5 (2%)	0	100	100
18	8	220/255 (86%)	217 (99%)	3 (1%)	0	100	100
19	L	118/210 (56%)	116 (98%)	2 (2%)	0	100	100
All	All	3925/4671 (84%)	3831 (98%)	92 (2%)	2 (0%)	49	44

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
12	b	165	LYS
12	b	164	SER

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	A	604/613 (98%)	599 (99%)	5 (1%)	73	77
2	B	594/593 (100%)	581 (98%)	13 (2%)	45	43
3	C	68/69 (99%)	68 (100%)	0	100	100
4	D	118/156 (76%)	117 (99%)	1 (1%)	73	77
5	E	56/67 (84%)	56 (100%)	0	100	100
6	F	131/183 (72%)	129 (98%)	2 (2%)	57	58
7	G	18/106 (17%)	17 (94%)	1 (6%)	19	12
8	I	26/28 (93%)	25 (96%)	1 (4%)	29	23
9	J	37/37 (100%)	36 (97%)	1 (3%)	39	35
10	K	60/100 (60%)	58 (97%)	2 (3%)	33	28
11	M	26/26 (100%)	26 (100%)	0	100	100
12	a	141/166 (85%)	141 (100%)	0	100	100
12	b	140/166 (84%)	138 (99%)	2 (1%)	59	60
13	3	176/197 (89%)	175 (99%)	1 (1%)	78	82
14	4	164/195 (84%)	158 (96%)	6 (4%)	30	24
15	5	179/208 (86%)	175 (98%)	4 (2%)	45	43
16	6	183/212 (86%)	180 (98%)	3 (2%)	55	55
17	7	168/195 (86%)	165 (98%)	3 (2%)	51	51
18	8	175/202 (87%)	172 (98%)	3 (2%)	53	53
19	L	91/161 (56%)	90 (99%)	1 (1%)	65	68
All	All	3155/3680 (86%)	3106 (98%)	49 (2%)	54	55

All (49) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	52	LEU
1	A	60	ASP
1	A	367	VAL
1	A	372	TYR
1	A	750	VAL
2	B	3	THR
2	B	186	SER
2	B	280	ILE
2	B	294	ASN
2	B	309	THR
2	B	340	SER

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Mol	Chain	Res	Type
2	B	344	ILE
2	B	402	GLN
2	B	475	ASP
2	B	481	SER
2	B	606	VAL
2	B	691	VAL
2	B	729	THR
4	D	165	VAL
6	F	86	THR
6	F	225	ILE
7	G	119	TYR
8	I	14	VAL
9	J	40	SER
10	K	105	THR
10	K	109	TYR
13	3	219	GLU
14	4	69	ASP
14	4	89	LEU
14	4	128	THR
14	4	228	LEU
14	4	243	ARG
14	4	244	LEU
15	5	77	GLU
15	5	133	VAL
15	5	174	VAL
15	5	259	VAL
16	6	39	ARG
16	6	41	LEU
16	6	55	SER
17	7	154	LEU
17	7	166	SER
17	7	253	VAL
18	8	124	THR
18	8	156	PHE
18	8	175	VAL
19	L	90	ILE
12	b	124	LEU
12	b	203	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (47) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	252	GLN
1	A	369	HIS
1	A	387	GLN
1	A	478	GLN
1	A	659	GLN
2	B	34	HIS
2	B	64	ASN
2	B	229	ASN
2	B	236	ASN
2	B	350	GLN
2	B	368	GLN
2	B	480	GLN
2	B	482	ASN
2	B	504	ASN
2	B	605	ASN
2	B	607	ASN
6	F	111	GLN
6	F	239	ASN
7	G	129	ASN
10	K	95	GLN
12	a	69	GLN
12	a	97	GLN
13	3	68	GLN
13	3	180	ASN
14	4	102	HIS
14	4	156	GLN
15	5	103	GLN
15	5	134	ASN
15	5	165	GLN
15	5	172	ASN
15	5	226	GLN
15	5	231	ASN
15	5	247	ASN
17	7	46	GLN
17	7	114	ASN
17	7	127	GLN
17	7	131	ASN
17	7	225	HIS
18	8	74	GLN
18	8	123	ASN
18	8	245	GLN
19	L	84	ASN
19	L	176	GLN

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Mol	Chain	Res	Type
12	b	67	ASN
12	b	69	GLN
12	b	97	GLN
12	b	194	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 318 ligands modelled in this entry, 21 are unknown - leaving 297 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	$\# Z > 2$
27	CHL	A	854	1	49,64,74	3.40	19 (38%)	49,102,114	2.87	16 (32%)
27	CHL	B	829	2	48,63,74	3.39	18 (37%)	48,101,114	2.68	16 (33%)
26	CL0	A	815	1	58,73,73	2.66	18 (31%)	60,113,113	2.86	19 (31%)
27	CHL	B	844	2	58,73,74	3.08	18 (31%)	60,113,114	2.43	13 (21%)
27	CHL	6	315	16	43,58,74	3.91	19 (44%)	42,95,114	2.69	16 (38%)
27	CHL	7	316	36	48,62,74	3.54	19 (39%)	47,100,114	2.65	14 (29%)
27	CHL	b	315	12	58,73,74	4.26	19 (32%)	60,113,114	2.47	14 (23%)
24	LHG	a	305	27	48,48,48	0.28	0	51,54,54	0.31	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
30	LMG	7	301	-	41,41,55	0.87	2 (4%)	49,49,63	1.22	4 (8%)
27	CHL	A	853	1	58,73,74	3.06	18 (31%)	60,113,114	2.65	14 (23%)
27	CHL	A	855	1	58,73,74	3.28	19 (32%)	60,113,114	2.45	18 (30%)
27	CHL	A	840	36	58,73,74	3.24	19 (32%)	60,113,114	2.60	15 (25%)
24	LHG	5	304	-	34,34,48	0.37	0	37,40,54	0.45	0
27	CHL	B	836	2	58,73,74	3.09	18 (31%)	60,113,114	2.48	13 (21%)
27	CHL	B	851	2	55,70,74	3.20	20 (36%)	56,109,114	2.42	14 (25%)
27	CHL	6	306	16	50,65,74	4.20	20 (40%)	50,103,114	2.69	17 (34%)
27	CHL	4	313	-	38,53,74	3.68	21 (55%)	36,89,114	3.05	13 (36%)
27	CHL	J	106	9	35,50,74	4.85	18 (51%)	32,85,114	3.12	12 (37%)
27	CHL	3	314	36	53,68,74	3.27	17 (32%)	54,107,114	2.42	16 (29%)
27	CHL	6	308	16	60,74,74	3.19	20 (33%)	58,114,114	2.43	15 (25%)
27	CHL	A	833	1	55,69,74	3.29	22 (40%)	52,108,114	2.78	17 (32%)
27	CHL	7	320	36,28	41,55,74	3.71	20 (48%)	35,91,114	3.30	12 (34%)
31	AXT	a	303	-	44,44,45	0.70	1 (2%)	54,62,64	0.95	1 (1%)
22	BCR	B	806	-	41,41,41	1.08	2 (4%)	56,56,56	1.38	7 (12%)
22	BCR	6	301	-	41,41,41	1.38	8 (19%)	56,56,56	1.52	11 (19%)
24	LHG	b	302	27	34,34,48	0.75	1 (2%)	37,40,54	1.31	4 (10%)
27	CHL	B	847	36	58,73,74	3.10	20 (34%)	60,113,114	2.30	16 (26%)
27	CHL	a	315	12	55,69,74	3.51	22 (40%)	52,108,114	2.68	20 (38%)
27	CHL	b	307	12	48,63,74	3.39	17 (35%)	48,101,114	2.63	16 (33%)
21	SF4	A	802	1,2	0,12,12	-	-	-	-	-
27	CHL	b	310	12	39,54,74	4.89	19 (48%)	37,90,114	2.43	15 (40%)
27	CHL	A	830	1	58,73,74	3.08	17 (29%)	60,113,114	2.64	14 (23%)
27	CHL	4	305	14	38,53,74	3.85	18 (47%)	36,89,114	2.78	12 (33%)
29	LUT	3	304	-	42,43,43	4.53	19 (45%)	51,60,60	5.76	34 (66%)
27	CHL	5	315	15	58,73,74	3.72	19 (32%)	60,113,114	4.75	17 (28%)
27	CHL	3	318	36	44,59,74	3.73	19 (43%)	42,96,114	2.85	16 (38%)
27	CHL	8	322	36	43,58,74	3.54	17 (39%)	42,95,114	2.83	12 (28%)
27	CHL	b	305	-	39,54,74	4.79	19 (48%)	37,90,114	2.67	14 (37%)
27	CHL	b	314	12	39,54,74	3.89	19 (48%)	37,90,114	2.47	13 (35%)
27	CHL	6	316	36	40,54,74	3.95	22 (55%)	34,90,114	3.30	14 (41%)
27	CHL	A	820	1	58,73,74	3.19	19 (32%)	60,113,114	2.51	15 (25%)
27	CHL	B	826	2	43,58,74	3.71	19 (44%)	42,95,114	3.06	15 (35%)
27	CHL	b	309	24	39,54,74	4.68	19 (48%)	37,90,114	2.31	13 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	CHL	B	833	36	48,63,74	3.63	19 (39%)	48,101,114	2.60	15 (31%)
27	CHL	A	858	1	58,73,74	3.26	19 (32%)	60,113,114	2.62	15 (25%)
27	CHL	a	312	36	43,58,74	4.62	19 (44%)	42,95,114	2.71	14 (33%)
27	CHL	A	842	1	60,74,74	3.09	21 (35%)	58,114,114	2.46	16 (27%)
27	CHL	8	312	18	58,73,74	3.10	19 (32%)	60,113,114	2.41	15 (25%)
27	CHL	3	317	36	55,70,74	3.35	19 (34%)	56,109,114	2.50	13 (23%)
27	CHL	6	311	16	58,73,74	3.45	19 (32%)	60,113,114	2.73	17 (28%)
27	CHL	7	312	17	38,52,74	3.86	18 (47%)	35,88,114	2.90	11 (31%)
27	CHL	3	308	13	58,73,74	3.61	20 (34%)	60,113,114	2.60	17 (28%)
27	CHL	A	844	1	58,73,74	3.17	19 (32%)	60,113,114	2.78	14 (23%)
22	BCR	B	803	-	41,41,41	1.16	2 (4%)	56,56,56	1.16	4 (7%)
32	PTY	5	305	-	30,30,49	0.57	0	33,35,54	0.56	1 (3%)
27	CHL	5	323	15	49,64,74	3.32	18 (36%)	49,102,114	2.92	14 (28%)
27	CHL	F	309	36	43,58,74	3.71	19 (44%)	42,95,114	3.01	15 (35%)
21	SF4	C	101	3	0,12,12	-	-	-	-	-
22	BCR	8	302	-	41,41,41	1.10	2 (4%)	56,56,56	1.29	8 (14%)
27	CHL	B	845	2	43,58,74	3.56	17 (39%)	42,95,114	3.05	16 (38%)
29	LUT	4	302	-	42,43,43	4.54	19 (45%)	51,60,60	5.77	32 (62%)
27	CHL	A	832	1	53,68,74	3.19	18 (33%)	54,107,114	2.74	16 (29%)
27	CHL	3	319	13	48,63,74	3.48	19 (39%)	48,101,114	2.83	15 (31%)
29	LUT	8	304	-	42,43,43	4.48	20 (47%)	51,60,60	6.06	35 (68%)
27	CHL	A	843	1	58,73,74	2.66	18 (31%)	60,113,114	4.37	26 (43%)
27	CHL	B	819	2	58,73,74	3.19	19 (32%)	60,113,114	2.46	15 (25%)
29	LUT	b	301	-	42,43,43	4.59	19 (45%)	51,60,60	5.93	36 (70%)
27	CHL	a	316	36	42,56,74	3.70	21 (50%)	36,92,114	2.64	13 (36%)
22	BCR	F	301	-	41,41,41	1.11	2 (4%)	56,56,56	1.17	4 (7%)
27	CHL	B	815	2	58,73,74	3.24	19 (32%)	60,113,114	2.51	18 (30%)
27	CHL	a	317	12	58,73,74	3.15	19 (32%)	60,113,114	2.37	15 (25%)
27	CHL	4	318	-	35,50,74	4.40	18 (51%)	32,85,114	2.47	10 (31%)
27	CHL	4	315	14	40,55,74	3.75	19 (47%)	38,91,114	2.86	13 (34%)
27	CHL	8	317	36	58,73,74	3.31	19 (32%)	60,113,114	2.41	13 (21%)
30	LMG	8	307	-	32,32,55	0.27	0	40,40,63	0.34	0
35	DGA	8	306	-	27,27,43	0.22	0	29,29,45	0.16	0
27	CHL	6	309	16	40,55,74	3.83	19 (47%)	38,91,114	2.74	12 (31%)
27	CHL	B	822	2	58,73,74	3.05	17 (29%)	60,113,114	2.50	13 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	CHL	6	318	-	41,55,74	4.55	22 (53%)	35,91,114	2.96	15 (42%)
27	CHL	b	317	-	42,56,74	4.36	22 (52%)	36,92,114	2.96	15 (41%)
27	CHL	A	829	1	48,63,74	3.37	17 (35%)	48,101,114	2.85	14 (29%)
27	CHL	3	312	13	58,73,74	3.46	19 (32%)	60,113,114	2.57	15 (25%)
27	CHL	6	307	-	58,73,74	2.76	19 (32%)	60,113,114	3.13	20 (33%)
23	LMT	B	810	-	36,36,36	1.17	5 (13%)	47,47,47	0.95	2 (4%)
22	BCR	K	203	-	41,41,41	1.12	3 (7%)	56,56,56	1.29	7 (12%)
22	BCR	J	102	-	41,41,41	1.07	2 (4%)	56,56,56	1.27	6 (10%)
27	CHL	A	839	1	58,73,74	3.07	18 (31%)	60,113,114	2.43	16 (26%)
27	CHL	B	830	2	53,68,74	3.28	20 (37%)	54,107,114	2.62	15 (27%)
23	LMT	F	302	-	30,30,36	1.29	6 (20%)	41,41,47	1.03	4 (9%)
27	CHL	B	848	2	58,73,74	3.13	18 (31%)	60,113,114	2.44	14 (23%)
27	CHL	a	310	12	58,73,74	3.28	19 (32%)	60,113,114	2.47	14 (23%)
27	CHL	8	325	18	58,73,74	3.09	17 (29%)	60,113,114	2.39	14 (23%)
27	CHL	a	313	24	48,63,74	3.41	18 (37%)	48,101,114	2.48	16 (33%)
27	CHL	B	825	2	53,68,74	3.17	17 (32%)	54,107,114	2.70	17 (31%)
27	CHL	L	304	-	38,53,74	3.89	17 (44%)	36,89,114	2.90	10 (27%)
27	CHL	A	859	36	58,73,74	3.28	20 (34%)	60,113,114	2.33	15 (25%)
27	CHL	3	316	36	60,74,74	3.04	21 (35%)	58,114,114	2.64	18 (31%)
27	CHL	B	818	2	48,63,74	3.32	19 (39%)	48,101,114	2.82	12 (25%)
27	CHL	5	313	-	50,65,74	2.98	19 (38%)	50,103,114	3.27	18 (36%)
27	CHL	B	849	24	58,73,74	3.21	19 (32%)	60,113,114	2.43	15 (25%)
27	CHL	7	314	17	55,70,74	3.89	19 (34%)	56,109,114	2.54	15 (26%)
24	LHG	7	306	27	43,43,48	0.71	1 (2%)	46,49,54	1.24	4 (8%)
27	CHL	B	838	2	58,73,74	3.06	18 (31%)	60,113,114	2.55	16 (26%)
22	BCR	B	804	-	41,41,41	1.10	2 (4%)	56,56,56	1.21	4 (7%)
22	BCR	A	804	-	41,41,41	1.13	2 (4%)	56,56,56	1.21	5 (8%)
27	CHL	7	313	17	58,73,74	3.17	20 (34%)	60,113,114	2.48	14 (23%)
27	CHL	A	856	36	58,73,74	3.05	19 (32%)	60,113,114	2.55	16 (26%)
27	CHL	A	831	-	48,63,74	2.95	18 (37%)	48,101,114	3.25	18 (37%)
27	CHL	5	307	15	48,63,74	3.43	19 (39%)	48,101,114	2.70	16 (33%)
24	LHG	A	811	27	41,41,48	0.70	2 (4%)	44,47,54	1.21	4 (9%)
27	CHL	8	314	18	60,74,74	3.08	21 (35%)	58,114,114	2.51	18 (31%)
23	LMT	5	306	-	31,31,36	1.25	6 (19%)	42,42,47	0.97	3 (7%)
27	CHL	5	311	15	39,54,74	3.72	18 (46%)	37,90,114	3.12	14 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
24	LHG	5	324	27	31,31,48	0.80	1 (3%)	34,37,54	1.31	4 (11%)
27	CHL	8	315	18	58,73,74	3.07	18 (31%)	60,113,114	2.56	15 (25%)
27	CHL	b	312	-	39,54,74	3.80	18 (46%)	37,90,114	2.98	14 (37%)
27	CHL	7	311	17	53,68,74	3.29	19 (35%)	54,107,114	2.57	17 (31%)
27	CHL	4	306	14	49,64,74	3.40	18 (36%)	49,102,114	2.62	15 (30%)
27	CHL	4	320	14	43,58,74	3.76	19 (44%)	42,95,114	2.91	17 (40%)
22	BCR	5	301	-	41,41,41	1.14	2 (4%)	56,56,56	1.18	4 (7%)
22	BCR	3	301	-	41,41,41	1.10	2 (4%)	56,56,56	1.28	6 (10%)
27	CHL	b	306	12	39,54,74	4.19	19 (48%)	37,90,114	2.77	12 (32%)
23	LMT	5	326	-	36,36,36	1.20	6 (16%)	47,47,47	0.95	2 (4%)
27	CHL	3	313	36	58,73,74	3.52	19 (32%)	60,113,114	2.46	14 (23%)
27	CHL	4	319	14	38,53,74	4.16	19 (50%)	36,89,114	2.36	10 (27%)
27	CHL	5	319	-	41,55,74	4.88	22 (53%)	35,91,114	3.02	15 (42%)
29	LUT	4	301	-	42,43,43	4.58	20 (47%)	51,60,60	5.90	35 (68%)
27	CHL	5	325	16	41,55,74	3.75	22 (53%)	35,91,114	2.94	16 (45%)
27	CHL	B	817	2	58,73,74	2.96	17 (29%)	60,113,114	2.65	16 (26%)
27	CHL	8	324	36	38,53,74	4.23	22 (57%)	31,88,114	3.42	14 (45%)
27	CHL	7	319	17	60,74,74	3.06	21 (35%)	58,114,114	2.70	18 (31%)
24	LHG	7	302	-	48,48,48	0.61	2 (4%)	51,54,54	1.26	6 (11%)
27	CHL	A	845	1	58,73,74	3.09	18 (31%)	60,113,114	2.47	13 (21%)
27	CHL	4	309	-	41,55,74	3.72	20 (48%)	35,91,114	2.75	15 (42%)
27	CHL	A	822	1	48,63,74	3.44	19 (39%)	48,101,114	2.75	17 (35%)
27	CHL	7	321	17	41,55,74	3.89	22 (53%)	35,91,114	3.55	15 (42%)
27	CHL	7	324	17	39,54,74	3.80	18 (46%)	37,90,114	2.74	11 (29%)
27	CHL	8	318	24	39,54,74	4.14	19 (48%)	37,90,114	2.94	11 (29%)
27	CHL	A	838	1	53,68,74	3.20	18 (33%)	54,107,114	2.56	13 (24%)
27	CHL	A	818	1	58,73,74	3.05	18 (31%)	60,113,114	2.57	16 (26%)
22	BCR	B	805	-	41,41,41	1.12	2 (4%)	56,56,56	1.17	4 (7%)
27	CHL	A	816	36	58,73,74	3.08	18 (31%)	60,113,114	2.53	16 (26%)
27	CHL	4	304	14	48,63,74	3.47	20 (41%)	48,101,114	2.67	15 (31%)
27	CHL	4	316	-	40,54,74	5.02	22 (55%)	34,90,114	2.79	11 (32%)
24	LHG	A	810	-	41,41,48	0.69	2 (4%)	44,47,54	1.35	6 (13%)
27	CHL	4	311	14	40,55,74	3.97	20 (50%)	38,91,114	2.96	13 (34%)
27	CHL	B	840	2	58,73,74	3.10	18 (31%)	60,113,114	2.49	16 (26%)
27	CHL	8	326	18	39,54,74	3.68	17 (43%)	37,90,114	3.22	12 (32%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
23	LMT	A	809	-	36,36,36	1.18	5 (13%)	47,47,47	0.94	1 (2%)
27	CHL	5	309	15	53,68,74	3.28	19 (35%)	54,107,114	2.63	13 (24%)
27	CHL	5	316	36	60,74,74	3.10	19 (31%)	58,114,114	2.44	14 (24%)
27	CHL	7	318	17	48,63,74	3.39	19 (39%)	48,101,114	2.79	14 (29%)
20	PQN	A	801	-	34,34,34	0.38	0	43,45,45	0.61	1 (2%)
27	CHL	5	308	15	39,54,74	3.73	17 (43%)	37,90,114	2.87	11 (29%)
22	BCR	K	202	-	41,41,41	1.14	3 (7%)	56,56,56	1.25	7 (12%)
27	CHL	8	323	-	43,58,74	3.49	21 (48%)	42,95,114	2.62	14 (33%)
27	CHL	B	811	2	58,73,74	3.08	18 (31%)	60,113,114	2.63	18 (30%)
27	CHL	6	312	16	39,54,74	3.90	19 (48%)	37,90,114	3.04	14 (37%)
22	BCR	A	807	-	41,41,41	1.07	2 (4%)	56,56,56	1.15	3 (5%)
27	CHL	b	308	-	39,54,74	3.62	21 (53%)	37,90,114	4.40	16 (43%)
30	LMG	J	101	-	49,49,55	0.81	2 (4%)	57,57,63	1.26	3 (5%)
27	CHL	5	322	15	41,55,74	4.64	22 (53%)	35,91,114	3.27	16 (45%)
29	LUT	F	303	-	42,43,43	4.49	20 (47%)	51,60,60	6.04	34 (66%)
29	LUT	5	302	-	42,43,43	4.55	19 (45%)	51,60,60	5.89	35 (68%)
24	LHG	4	303	27	48,48,48	0.27	0	51,54,54	0.38	0
24	LHG	A	812	-	48,48,48	0.71	1 (2%)	51,54,54	1.30	6 (11%)
27	CHL	K	204	36	43,58,74	4.91	20 (46%)	42,95,114	3.00	15 (35%)
27	CHL	8	319	36	48,63,74	3.63	19 (39%)	48,101,114	2.82	15 (31%)
27	CHL	6	319	16	37,51,74	4.22	20 (54%)	30,86,114	2.44	11 (36%)
27	CHL	B	828	36	53,68,74	3.25	19 (35%)	54,107,114	2.42	15 (27%)
20	PQN	B	801	-	34,34,34	0.49	0	43,45,45	0.75	1 (2%)
21	SF4	C	102	3	0,12,12	-	-	-	-	-
22	BCR	3	303	-	41,41,41	1.09	2 (4%)	56,56,56	1.31	7 (12%)
27	CHL	A	841	36	50,64,74	3.54	22 (44%)	46,102,114	3.07	16 (34%)
27	CHL	A	848	1	58,73,74	3.04	17 (29%)	60,113,114	2.47	15 (25%)
27	CHL	A	852	1	44,59,74	3.48	17 (38%)	42,96,114	3.33	15 (35%)
22	BCR	B	802	-	41,41,41	1.15	2 (4%)	56,56,56	1.28	8 (14%)
27	CHL	B	820	2	58,73,74	3.18	20 (34%)	60,113,114	2.48	15 (25%)
27	CHL	B	843	36	38,53,74	3.93	19 (50%)	36,89,114	2.94	13 (36%)
27	CHL	F	308	6	39,54,74	4.04	19 (48%)	37,90,114	2.97	13 (35%)
27	CHL	3	309	13	39,54,74	4.01	19 (48%)	37,90,114	3.03	14 (37%)
27	CHL	6	314	24	39,54,74	3.82	18 (46%)	37,90,114	2.74	12 (32%)
27	CHL	b	304	12	39,54,74	3.94	19 (48%)	37,90,114	2.42	12 (32%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	CHL	7	315	17	37,52,74	3.80	19 (51%)	35,88,114	2.54	11 (31%)
27	CHL	B	831	2	39,54,74	3.74	17 (43%)	37,90,114	2.97	13 (35%)
27	CHL	3	315	13	45,60,74	3.46	17 (37%)	43,97,114	2.77	15 (34%)
27	CHL	B	846	36	58,73,74	3.06	18 (31%)	60,113,114	2.44	15 (25%)
29	LUT	8	303	-	42,43,43	4.42	19 (45%)	51,60,60	5.92	34 (66%)
27	CHL	5	320	15	39,54,74	3.93	19 (48%)	37,90,114	2.38	14 (37%)
27	CHL	b	316	-	42,56,74	4.03	22 (52%)	36,92,114	2.63	15 (41%)
27	CHL	B	835	2	50,65,74	3.30	18 (36%)	50,103,114	2.75	14 (28%)
27	CHL	B	832	36	58,73,74	3.07	18 (31%)	60,113,114	2.61	16 (26%)
22	BCR	3	302	-	41,41,41	1.12	2 (4%)	56,56,56	1.25	5 (8%)
27	CHL	7	323	-	45,60,74	3.41	20 (44%)	43,97,114	2.79	13 (30%)
29	LUT	J	103	-	42,43,43	4.57	20 (47%)	51,60,60	5.95	33 (64%)
29	LUT	a	302	-	42,43,43	4.58	19 (45%)	51,60,60	5.90	35 (68%)
27	CHL	K	205	10	39,54,74	4.00	19 (48%)	37,90,114	2.86	11 (29%)
27	CHL	A	827	1	47,62,74	3.61	19 (40%)	46,99,114	2.72	15 (32%)
22	BCR	A	805	-	41,41,41	1.11	2 (4%)	56,56,56	1.29	6 (10%)
22	BCR	I	801	-	41,41,41	1.11	2 (4%)	56,56,56	1.17	4 (7%)
27	CHL	B	834	2	58,73,74	3.04	18 (31%)	60,113,114	2.52	14 (23%)
27	CHL	B	837	2	58,73,74	3.05	17 (29%)	60,113,114	2.53	13 (21%)
22	BCR	B	807	-	41,41,41	1.11	2 (4%)	56,56,56	1.12	3 (5%)
27	CHL	B	841	2	48,63,74	3.37	19 (39%)	48,101,114	2.74	14 (29%)
27	CHL	B	842	2	58,73,74	3.53	20 (34%)	60,113,114	2.47	15 (25%)
27	CHL	7	322	36	55,69,74	3.54	22 (40%)	52,108,114	2.94	17 (32%)
22	BCR	A	806	-	41,41,41	1.14	2 (4%)	56,56,56	1.30	7 (12%)
27	CHL	K	206	10	39,54,74	4.30	19 (48%)	37,90,114	2.85	13 (35%)
29	LUT	6	303	-	42,43,43	4.54	20 (47%)	51,60,60	5.82	33 (64%)
27	CHL	A	824	1	53,68,74	3.18	18 (33%)	54,107,114	2.47	14 (25%)
27	CHL	a	307	12	53,68,74	3.59	20 (37%)	54,107,114	2.60	14 (25%)
27	CHL	B	839	2	53,68,74	3.24	19 (35%)	54,107,114	2.63	13 (24%)
27	CHL	3	311	13	53,68,74	3.24	20 (37%)	54,107,114	2.62	13 (24%)
27	CHL	4	308	14	53,68,74	3.29	19 (35%)	54,107,114	2.51	15 (27%)
27	CHL	8	320	18	45,60,74	3.50	18 (40%)	43,97,114	2.97	15 (34%)
33	XAT	7	305	-	41,47,47	1.28	8 (19%)	54,74,74	1.50	10 (18%)
27	CHL	8	311	18	39,54,74	3.88	19 (48%)	37,90,114	2.77	13 (35%)
27	CHL	A	835	1	40,55,74	3.98	19 (47%)	38,91,114	3.15	12 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	CHL	3	320	13	54,69,74	3.20	18 (33%)	55,108,114	2.60	15 (27%)
28	DGD	B	809	-	62,62,67	0.98	2 (3%)	76,76,81	1.34	10 (13%)
22	BCR	A	803	-	41,41,41	1.09	2 (4%)	56,56,56	1.21	3 (5%)
29	LUT	7	304	-	42,43,43	4.55	21 (50%)	51,60,60	5.93	31 (60%)
24	LHG	8	305	27	48,48,48	0.65	1 (2%)	51,54,54	1.27	6 (11%)
27	CHL	A	821	1	58,73,74	3.19	19 (32%)	60,113,114	2.63	15 (25%)
27	CHL	a	314	12	38,53,74	3.90	18 (47%)	36,89,114	2.91	12 (33%)
27	CHL	8	313	18	43,58,74	3.77	19 (44%)	42,95,114	3.03	14 (33%)
29	LUT	5	303	-	42,43,43	4.49	20 (47%)	51,60,60	6.05	34 (66%)
27	CHL	b	313	12	39,54,74	4.36	19 (48%)	37,90,114	2.67	13 (35%)
27	CHL	B	816	2	54,69,74	3.14	18 (33%)	55,108,114	2.60	16 (29%)
27	CHL	A	847	1	49,64,74	3.35	18 (36%)	49,102,114	2.76	15 (30%)
27	CHL	B	827	2	53,68,74	3.15	18 (33%)	54,107,114	2.50	14 (25%)
27	CHL	A	823	1	58,73,74	3.04	17 (29%)	60,113,114	2.51	17 (28%)
23	LMT	A	808	-	36,36,36	1.22	6 (16%)	47,47,47	1.06	2 (4%)
29	LUT	3	305	-	42,43,43	4.44	19 (45%)	51,60,60	6.04	34 (66%)
27	CHL	5	314	15	38,53,74	4.01	19 (50%)	36,89,114	2.99	12 (33%)
27	CHL	B	814	2	58,73,74	3.20	19 (32%)	60,113,114	2.60	12 (20%)
22	BCR	7	303	-	41,41,41	1.09	2 (4%)	56,56,56	1.28	5 (8%)
27	CHL	a	311	12	53,68,74	3.29	19 (35%)	54,107,114	2.75	18 (33%)
27	CHL	6	305	16	39,54,74	3.78	19 (48%)	37,90,114	2.71	13 (35%)
28	DGD	7	307	27	67,67,67	0.91	2 (2%)	81,81,81	1.37	9 (11%)
27	CHL	A	828	1	58,73,74	3.17	19 (32%)	60,113,114	2.44	13 (21%)
22	BCR	L	301	-	41,41,41	1.07	2 (4%)	56,56,56	1.24	7 (12%)
27	CHL	4	307	14	53,68,74	3.28	18 (33%)	54,107,114	2.64	15 (27%)
27	CHL	A	817	-	58,73,74	2.96	17 (29%)	60,113,114	2.51	15 (25%)
27	CHL	a	309	36	53,68,74	4.31	19 (35%)	54,107,114	2.81	17 (31%)
27	CHL	5	317	36	41,55,74	3.69	21 (51%)	35,91,114	3.03	14 (40%)
27	CHL	5	321	15	39,54,74	3.81	19 (48%)	37,90,114	2.54	14 (37%)
27	CHL	7	317	24	58,73,74	3.11	18 (31%)	60,113,114	2.49	17 (28%)
27	CHL	8	316	18	58,73,74	3.21	19 (32%)	60,113,114	2.40	16 (26%)
27	CHL	4	317	14	38,53,74	4.02	19 (50%)	36,89,114	2.29	11 (30%)
27	CHL	8	321	36	60,74,74	3.12	22 (36%)	58,114,114	2.62	16 (27%)
27	CHL	b	311	12	41,55,74	3.78	22 (53%)	35,91,114	3.00	13 (37%)
27	CHL	6	313	16	40,55,74	4.74	19 (47%)	38,91,114	2.83	13 (34%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	CHL	A	849	1	58,73,74	3.34	19 (32%)	60,113,114	2.19	13 (21%)
27	CHL	a	308	12	38,53,74	3.88	19 (50%)	36,89,114	2.89	13 (36%)
27	CHL	B	821	2	51,66,74	3.34	19 (37%)	51,104,114	2.76	16 (31%)
29	LUT	b	303	-	42,43,43	1.28	8 (19%)	51,60,60	1.64	11 (21%)
22	BCR	L	302	-	41,41,41	1.08	2 (4%)	56,56,56	1.21	4 (7%)
27	CHL	A	857	24	39,54,74	3.80	18 (46%)	37,90,114	3.18	14 (37%)
34	SQD	8	301	-	33,35,54	1.81	7 (21%)	43,46,65	1.43	6 (13%)
23	LMT	7	308	-	36,36,36	1.16	5 (13%)	47,47,47	0.90	0
29	LUT	a	304	-	42,43,43	4.50	19 (45%)	51,60,60	6.31	34 (66%)
27	CHL	A	851	1	39,54,74	3.77	18 (46%)	37,90,114	3.14	13 (35%)
27	CHL	a	320	12	39,54,74	4.20	19 (48%)	37,90,114	3.00	14 (37%)
27	CHL	4	312	14	42,56,74	3.65	20 (47%)	36,92,114	2.88	15 (41%)
27	CHL	4	310	24	39,54,74	4.19	19 (48%)	37,90,114	2.49	12 (32%)
27	CHL	A	846	-	43,58,74	3.18	19 (44%)	42,95,114	3.55	19 (45%)
27	CHL	B	823	2	48,63,74	3.37	18 (37%)	48,101,114	2.68	15 (31%)
27	CHL	B	813	2	48,63,74	3.41	18 (37%)	48,101,114	2.78	15 (31%)
27	CHL	B	850	2	43,58,74	3.64	19 (44%)	42,95,114	2.95	16 (38%)
27	CHL	6	320	16	39,54,74	3.79	18 (46%)	37,90,114	2.67	13 (35%)
27	CHL	6	310	16	48,63,74	3.54	19 (39%)	48,101,114	2.68	16 (33%)
27	CHL	6	317	-	41,55,74	3.68	19 (46%)	35,91,114	3.34	12 (34%)
30	LMG	J	104	-	29,29,55	0.99	2 (6%)	37,37,63	1.21	3 (8%)
22	BCR	M	102	-	41,41,41	1.14	2 (4%)	56,56,56	1.23	5 (8%)
27	CHL	5	310	15	58,73,74	3.07	18 (31%)	60,113,114	2.74	15 (25%)
27	CHL	A	819	1	48,63,74	3.37	17 (35%)	48,101,114	2.80	15 (31%)
27	CHL	B	812	-	58,73,74	3.05	17 (29%)	60,113,114	2.36	15 (25%)
30	LMG	a	301	-	44,44,55	0.87	2 (4%)	52,52,63	1.28	6 (11%)
27	CHL	3	321	13	38,53,74	3.82	17 (44%)	36,89,114	3.17	13 (36%)
27	CHL	A	850	1	58,73,74	3.04	18 (31%)	60,113,114	2.53	16 (26%)
27	CHL	B	824	2	50,65,74	3.32	17 (34%)	50,103,114	2.54	15 (30%)
27	CHL	a	319	36	43,58,74	3.76	19 (44%)	42,95,114	2.71	15 (35%)
27	CHL	3	310	13	58,73,74	3.12	18 (31%)	60,113,114	2.46	14 (23%)
27	CHL	A	836	36	58,73,74	3.67	20 (34%)	60,113,114	2.28	14 (23%)
24	LHG	B	808	27	31,31,48	0.79	1 (3%)	34,37,54	1.34	4 (11%)
27	CHL	4	314	-	38,53,74	4.05	20 (52%)	36,89,114	2.88	13 (36%)
27	CHL	A	834	1	58,73,74	3.01	20 (34%)	60,113,114	2.27	13 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	CHL	a	318	36	42,56,74	4.60	22 (52%)	36,92,114	3.28	15 (41%)
27	CHL	L	303	-	53,68,74	2.98	19 (35%)	54,107,114	3.30	20 (37%)
27	CHL	A	825	1	58,73,74	3.41	19 (32%)	60,113,114	2.56	15 (25%)
29	LUT	6	302	-	42,43,43	4.53	19 (45%)	51,60,60	6.13	35 (68%)
27	CHL	A	837	1	48,63,74	3.59	19 (39%)	48,101,114	2.77	16 (33%)
27	CHL	K	207	10	41,55,74	4.28	22 (53%)	35,91,114	2.91	14 (40%)
27	CHL	A	826	1	55,70,74	3.20	18 (32%)	56,109,114	2.54	15 (26%)
27	CHL	5	312	36	43,58,74	3.73	19 (44%)	42,95,114	2.63	15 (35%)
27	CHL	5	318	15	58,73,74	3.46	20 (34%)	60,113,114	2.40	16 (26%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	CHL	A	854	1	1/1/18/26	3/27/125/137	-
27	CHL	B	829	2	2/2/18/26	8/25/123/137	-
26	CLO	A	815	1	1/1/20/25	8/37/135/135	-
27	CHL	B	844	2	3/3/20/26	11/37/135/137	-
27	CHL	6	315	16	2/2/17/26	2/19/117/137	-
27	CHL	7	316	36	3/3/18/26	8/23/121/137	-
27	CHL	b	315	12	3/3/20/26	15/37/135/137	-
24	LHG	a	305	27	-	26/53/53/53	-
30	LMG	7	301	-	-	19/36/56/70	0/1/1/1
27	CHL	A	853	1	3/3/20/26	8/37/135/137	-
27	CHL	A	855	1	1/1/20/26	10/37/135/137	-
27	CHL	A	840	36	3/3/20/26	8/37/135/137	-
27	CHL	B	851	2	2/2/19/26	8/34/132/137	-
27	CHL	B	836	2	2/2/20/26	7/37/135/137	-
27	CHL	6	306	16	3/3/18/26	10/28/126/137	-
24	LHG	5	304	-	-	20/39/39/53	-
27	CHL	4	313	-	1/1/16/26	6/13/111/137	-
27	CHL	J	106	9	3/3/15/26	3/10/108/137	-
27	CHL	3	314	36	3/3/19/26	8/31/129/137	-
27	CHL	6	308	16	3/3/20/26	17/39/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	CHL	A	833	1	2/2/19/26	11/33/131/137	-
27	CHL	7	320	36,28	2/2/16/26	9/17/115/137	-
31	AXT	a	303	-	-	1/29/71/75	0/2/2/2
22	BCR	B	806	-	-	9/29/63/63	0/2/2/2
22	BCR	6	301	-	-	23/29/63/63	0/2/2/2
27	CHL	B	847	36	2/2/20/26	9/37/135/137	-
27	CHL	a	315	12	2/2/19/26	9/33/131/137	-
27	CHL	b	307	12	2/2/18/26	8/25/123/137	-
27	CHL	b	310	12	2/2/16/26	2/15/113/137	-
24	LHG	b	302	27	-	17/39/39/53	-
29	LUT	3	304	-	-	14/29/67/67	0/2/2/2
27	CHL	A	830	1	2/2/20/26	7/37/135/137	-
27	CHL	4	305	14	3/3/16/26	5/13/111/137	-
21	SF4	A	802	1,2	-	-	0/6/5/5
27	CHL	5	315	15	3/3/20/26	7/37/135/137	-
27	CHL	3	318	36	3/3/17/26	9/21/119/137	-
27	CHL	8	322	36	2/2/17/26	4/19/117/137	-
27	CHL	b	305	-	3/3/16/26	3/15/113/137	-
27	CHL	b	314	12	3/3/16/26	3/15/113/137	-
27	CHL	6	316	36	3/3/16/26	10/15/113/137	-
27	CHL	A	820	1	3/3/20/26	5/37/135/137	-
27	CHL	B	826	2	1/1/17/26	4/19/117/137	-
27	CHL	b	309	24	3/3/16/26	4/15/113/137	-
27	CHL	B	833	36	3/3/18/26	7/25/123/137	-
27	CHL	A	858	1	2/2/20/26	14/37/135/137	-
27	CHL	a	312	36	3/3/17/26	4/19/117/137	-
27	CHL	A	842	1	2/2/20/26	5/39/137/137	-
27	CHL	8	312	18	3/3/20/26	16/37/135/137	-
27	CHL	3	317	36	2/2/19/26	10/34/132/137	-
27	CHL	6	311	16	3/3/20/26	9/37/135/137	-
27	CHL	7	312	17	3/3/16/26	4/11/109/137	-
27	CHL	3	308	13	3/3/20/26	7/37/135/137	-
27	CHL	A	844	1	1/1/20/26	8/37/135/137	-
22	BCR	B	803	-	-	8/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	PTY	5	305	-	-	17/34/34/53	-
27	CHL	5	323	15	2/2/18/26	7/27/125/137	-
21	SF4	C	101	3	-	-	0/6/5/5
27	CHL	B	845	2	2/2/17/26	3/19/117/137	-
22	BCR	8	302	-	-	6/29/63/63	0/2/2/2
29	LUT	4	302	-	-	19/29/67/67	0/2/2/2
27	CHL	A	832	1	2/2/19/26	11/31/129/137	-
27	CHL	3	319	13	2/2/18/26	9/25/123/137	-
29	LUT	8	304	-	-	14/29/67/67	0/2/2/2
27	CHL	A	843	1	2/2/20/26	15/37/135/137	-
27	CHL	B	819	2	3/3/20/26	9/37/135/137	-
29	LUT	b	301	-	-	16/29/67/67	0/2/2/2
27	CHL	a	316	36	3/3/16/26	7/18/116/137	-
27	CHL	B	815	2	3/3/20/26	13/37/135/137	-
27	CHL	4	318	-	3/3/15/26	4/10/108/137	-
27	CHL	a	317	12	3/3/20/26	10/37/135/137	-
22	BCR	F	301	-	-	8/29/63/63	0/2/2/2
27	CHL	4	315	14	3/3/16/26	2/16/114/137	-
27	CHL	8	317	36	3/3/20/26	11/37/135/137	-
30	LMG	8	307	-	-	13/27/47/70	0/1/1/1
35	DGA	8	306	-	-	5/29/29/45	-
27	CHL	6	309	16	3/3/16/26	5/16/114/137	-
27	CHL	B	822	2	2/2/20/26	12/37/135/137	-
27	CHL	6	318	-	3/3/16/26	7/17/115/137	-
27	CHL	b	317	-	2/2/16/26	6/18/116/137	-
27	CHL	A	829	1	2/2/18/26	8/25/123/137	-
27	CHL	3	312	13	2/2/20/26	7/37/135/137	-
27	CHL	6	307	-	2/2/20/26	12/37/135/137	-
23	LMT	B	810	-	-	7/21/61/61	0/2/2/2
27	CHL	A	839	1	2/2/20/26	11/37/135/137	-
22	BCR	J	102	-	-	6/29/63/63	0/2/2/2
27	CHL	8	325	18	2/2/20/26	9/37/135/137	-
27	CHL	B	830	2	2/2/19/26	5/31/129/137	-
27	CHL	B	848	2	1/1/20/26	10/37/135/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	CHL	a	310	12	2/2/20/26	10/37/135/137	-
22	BCR	K	203	-	-	5/29/63/63	0/2/2/2
27	CHL	L	304	-	2/2/16/26	3/13/111/137	-
27	CHL	a	313	24	3/3/18/26	10/25/123/137	-
27	CHL	B	825	2	2/2/19/26	7/31/129/137	-
23	LMT	F	302	-	-	5/15/55/61	0/2/2/2
27	CHL	A	859	36	3/3/20/26	5/37/135/137	-
27	CHL	3	316	36	2/2/20/26	6/39/137/137	-
27	CHL	B	818	2	2/2/18/26	6/25/123/137	-
27	CHL	5	313	-	2/2/18/26	9/28/126/137	-
27	CHL	B	849	24	3/3/20/26	5/37/135/137	-
27	CHL	7	314	17	3/3/19/26	8/34/132/137	-
27	CHL	B	838	2	1/1/20/26	10/37/135/137	-
24	LHG	7	306	27	-	20/48/48/53	-
22	BCR	B	804	-	-	9/29/63/63	0/2/2/2
27	CHL	7	313	17	2/2/20/26	11/37/135/137	-
22	BCR	A	804	-	-	5/29/63/63	0/2/2/2
27	CHL	A	856	36	2/2/20/26	7/37/135/137	-
27	CHL	A	831	-	2/2/18/26	10/25/123/137	-
27	CHL	5	307	15	3/3/18/26	5/25/123/137	-
24	LHG	A	811	27	-	25/46/46/53	-
27	CHL	8	314	18	3/3/20/26	9/39/137/137	-
23	LMT	5	306	-	-	6/16/56/61	0/2/2/2
27	CHL	5	311	15	3/3/16/26	5/15/113/137	-
27	CHL	8	315	18	2/2/20/26	11/37/135/137	-
24	LHG	5	324	27	-	14/36/36/53	-
27	CHL	b	312	-	1/1/16/26	6/15/113/137	-
27	CHL	7	311	17	3/3/19/26	4/31/129/137	-
27	CHL	4	306	14	3/3/18/26	6/27/125/137	-
27	CHL	4	320	14	3/3/17/26	6/19/117/137	-
22	BCR	5	301	-	-	13/29/63/63	0/2/2/2
22	BCR	3	301	-	-	8/29/63/63	0/2/2/2
27	CHL	b	306	12	2/2/16/26	5/15/113/137	-
23	LMT	5	326	-	-	8/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	CHL	3	313	36	3/3/20/26	7/37/135/137	-
27	CHL	4	319	14	2/2/16/26	4/13/111/137	-
27	CHL	5	319	-	2/2/16/26	8/17/115/137	-
29	LUT	4	301	-	-	15/29/67/67	0/2/2/2
27	CHL	5	325	16	2/2/16/26	5/17/115/137	-
27	CHL	B	817	2	3/3/20/26	10/37/135/137	-
27	CHL	8	324	36	3/3/15/26	4/14/112/137	-
27	CHL	7	319	17	3/3/20/26	19/39/137/137	-
24	LHG	7	302	-	-	31/53/53/53	-
27	CHL	A	845	1	1/1/20/26	9/37/135/137	-
27	CHL	4	309	-	3/3/16/26	5/17/115/137	-
27	CHL	A	822	1	1/1/18/26	5/25/123/137	-
27	CHL	7	321	17	3/3/16/26	4/17/115/137	-
27	CHL	7	324	17	2/2/16/26	8/15/113/137	-
27	CHL	8	318	24	3/3/16/26	5/15/113/137	-
27	CHL	A	838	1	1/1/19/26	9/31/129/137	-
27	CHL	A	816	36	3/3/20/26	6/37/135/137	-
27	CHL	A	818	1	3/3/20/26	7/37/135/137	-
27	CHL	4	304	14	3/3/18/26	5/25/123/137	-
22	BCR	B	805	-	-	7/29/63/63	0/2/2/2
27	CHL	4	316	-	3/3/16/26	6/15/113/137	-
24	LHG	A	810	-	-	20/46/46/53	-
27	CHL	4	311	14	3/3/16/26	6/16/114/137	-
27	CHL	B	840	2	3/3/20/26	11/37/135/137	-
27	CHL	8	326	18	3/3/16/26	3/15/113/137	-
23	LMT	A	809	-	-	6/21/61/61	0/2/2/2
27	CHL	5	309	15	2/2/19/26	16/31/129/137	-
27	CHL	5	316	36	3/3/20/26	24/39/137/137	-
27	CHL	7	318	17	2/2/18/26	6/25/123/137	-
20	PQN	A	801	-	-	4/23/43/43	0/2/2/2
27	CHL	5	308	15	3/3/16/26	2/15/113/137	-
27	CHL	8	323	-	2/2/17/26	4/19/117/137	-
22	BCR	K	202	-	-	9/29/63/63	0/2/2/2
27	CHL	B	811	2	2/2/20/26	6/37/135/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	CHL	6	312	16	3/3/16/26	5/15/113/137	-
22	BCR	A	807	-	-	9/29/63/63	0/2/2/2
27	CHL	b	308	-	2/2/16/26	5/15/113/137	-
30	LMG	J	101	-	-	25/44/64/70	0/1/1/1
27	CHL	5	322	15	3/3/16/26	5/17/115/137	-
29	LUT	F	303	-	-	18/29/67/67	0/2/2/2
29	LUT	5	302	-	-	14/29/67/67	0/2/2/2
24	LHG	4	303	27	-	30/53/53/53	-
24	LHG	A	812	-	-	21/53/53/53	-
27	CHL	K	204	36	3/3/17/26	2/19/117/137	-
27	CHL	8	319	36	3/3/18/26	6/25/123/137	-
27	CHL	6	319	16	3/3/15/26	6/12/110/137	-
27	CHL	B	828	36	3/3/19/26	3/31/129/137	-
27	CHL	A	841	36	3/3/18/26	9/27/125/137	-
27	CHL	A	848	1	2/2/20/26	5/37/135/137	-
27	CHL	B	820	2	1/1/20/26	10/37/135/137	-
27	CHL	B	843	36	3/3/16/26	3/13/111/137	-
27	CHL	F	309	36	3/3/17/26	3/19/117/137	-
27	CHL	A	852	1	3/3/17/26	4/21/119/137	-
20	PQN	B	801	-	-	3/23/43/43	0/2/2/2
27	CHL	6	314	24	3/3/16/26	3/15/113/137	-
27	CHL	F	308	6	3/3/16/26	4/15/113/137	-
22	BCR	B	802	-	-	9/29/63/63	0/2/2/2
27	CHL	3	309	13	3/3/16/26	2/15/113/137	-
27	CHL	b	304	12	2/2/16/26	5/15/113/137	-
22	BCR	L	301	-	-	10/29/63/63	0/2/2/2
27	CHL	7	315	17	2/2/16/26	2/11/109/137	-
27	CHL	B	831	2	2/2/16/26	3/15/113/137	-
27	CHL	3	315	13	2/2/17/26	9/22/120/137	-
27	CHL	B	846	36	3/3/20/26	12/37/135/137	-
29	LUT	8	303	-	-	13/29/67/67	0/2/2/2
27	CHL	5	320	15	3/3/16/26	3/15/113/137	-
27	CHL	b	316	-	3/3/16/26	7/18/116/137	-
27	CHL	B	835	2	2/2/18/26	12/28/126/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	CHL	B	832	36	3/3/20/26	6/37/135/137	-
27	CHL	7	323	-	2/2/17/26	4/22/120/137	-
22	BCR	3	302	-	-	10/29/63/63	0/2/2/2
29	LUT	J	103	-	-	18/29/67/67	0/2/2/2
29	LUT	a	302	-	-	15/29/67/67	0/2/2/2
27	CHL	K	205	10	3/3/16/26	3/15/113/137	-
27	CHL	A	827	1	2/2/17/26	8/24/122/137	-
22	BCR	A	805	-	-	4/29/63/63	0/2/2/2
27	CHL	B	834	2	3/3/20/26	3/37/135/137	-
22	BCR	I	801	-	-	8/29/63/63	0/2/2/2
27	CHL	B	837	2	1/1/20/26	9/37/135/137	-
22	BCR	B	807	-	-	6/29/63/63	0/2/2/2
27	CHL	B	841	2	2/2/18/26	7/25/123/137	-
27	CHL	B	842	2	2/2/20/26	6/37/135/137	-
27	CHL	7	322	36	2/2/19/26	11/33/131/137	-
22	BCR	A	806	-	-	9/29/63/63	0/2/2/2
27	CHL	K	206	10	2/2/16/26	2/15/113/137	-
29	LUT	6	303	-	-	18/29/67/67	0/2/2/2
27	CHL	A	824	1	2/2/19/26	8/31/129/137	-
27	CHL	a	307	12	3/3/19/26	5/31/129/137	-
27	CHL	B	839	2	2/2/19/26	7/31/129/137	-
27	CHL	3	311	13	3/3/19/26	15/31/129/137	-
27	CHL	4	308	14	3/3/19/26	10/31/129/137	-
22	BCR	3	303	-	-	10/29/63/63	0/2/2/2
27	CHL	8	320	18	2/2/17/26	4/22/120/137	-
27	CHL	8	311	18	3/3/16/26	3/15/113/137	-
27	CHL	A	835	1	3/3/16/26	4/16/114/137	-
27	CHL	3	320	13	3/3/19/26	5/33/131/137	-
28	DGD	B	809	-	-	23/50/90/95	0/2/2/2
22	BCR	A	803	-	-	7/29/63/63	0/2/2/2
29	LUT	7	304	-	-	17/29/67/67	0/2/2/2
27	CHL	A	821	1	3/3/20/26	10/37/135/137	-
24	LHG	8	305	27	-	17/53/53/53	-
27	CHL	a	314	12	2/2/16/26	8/13/111/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	CHL	8	313	18	3/3/17/26	5/19/117/137	-
29	LUT	5	303	-	-	18/29/67/67	0/2/2/2
27	CHL	b	313	12	3/3/16/26	9/15/113/137	-
27	CHL	B	816	2	3/3/19/26	6/33/131/137	-
27	CHL	A	847	1	2/2/18/26	8/27/125/137	-
27	CHL	B	827	2	3/3/19/26	11/31/129/137	-
27	CHL	A	823	1	3/3/20/26	12/37/135/137	-
23	LMT	A	808	-	-	8/21/61/61	0/2/2/2
29	LUT	3	305	-	-	12/29/67/67	0/2/2/2
27	CHL	5	314	15	2/2/16/26	5/13/111/137	-
27	CHL	B	814	2	3/3/20/26	12/37/135/137	-
22	BCR	7	303	-	-	6/29/63/63	0/2/2/2
27	CHL	a	311	12	2/2/19/26	7/31/129/137	-
27	CHL	6	305	16	3/3/16/26	9/15/113/137	-
28	DGD	7	307	27	-	22/55/95/95	0/2/2/2
27	CHL	A	828	1	2/2/20/26	13/37/135/137	-
27	CHL	4	307	14	2/2/19/26	6/31/129/137	-
27	CHL	7	317	24	3/3/20/26	14/37/135/137	-
27	CHL	A	817	-	1/1/20/26	4/37/135/137	-
27	CHL	a	309	36	3/3/19/26	4/31/129/137	-
27	CHL	5	317	36	2/2/16/26	5/17/115/137	-
27	CHL	5	321	15	2/2/16/26	3/15/113/137	-
27	CHL	8	316	18	2/2/20/26	13/37/135/137	-
27	CHL	8	321	36	3/3/20/26	15/39/137/137	-
27	CHL	4	317	14	2/2/16/26	4/13/111/137	-
27	CHL	b	311	12	3/3/16/26	5/17/115/137	-
33	XAT	7	305	-	-	7/31/93/93	0/4/4/4
27	CHL	6	313	16	2/2/16/26	4/16/114/137	-
27	CHL	A	849	1	2/2/20/26	7/37/135/137	-
27	CHL	a	308	12	3/3/16/26	4/13/111/137	-
27	CHL	B	821	2	2/2/18/26	9/29/127/137	-
29	LUT	b	303	-	-	23/29/67/67	0/2/2/2
27	CHL	A	857	24	3/3/16/26	3/15/113/137	-
22	BCR	L	302	-	-	6/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
34	SQD	8	301	-	-	15/30/50/69	0/1/1/1
23	LMT	7	308	-	-	9/21/61/61	0/2/2/2
21	SF4	C	102	3	-	-	0/6/5/5
29	LUT	a	304	-	-	15/29/67/67	0/2/2/2
27	CHL	A	851	1	3/3/16/26	2/15/113/137	-
27	CHL	a	320	12	3/3/16/26	5/15/113/137	-
27	CHL	4	312	14	2/2/16/26	5/18/116/137	-
27	CHL	4	310	24	3/3/16/26	8/15/113/137	-
27	CHL	A	846	-	2/2/17/26	4/19/117/137	-
27	CHL	B	823	2	3/3/18/26	7/25/123/137	-
27	CHL	B	813	2	3/3/18/26	7/25/123/137	-
27	CHL	B	850	2	2/2/17/26	3/19/117/137	-
27	CHL	6	320	16	3/3/16/26	3/15/113/137	-
27	CHL	6	310	16	3/3/18/26	8/25/123/137	-
27	CHL	6	317	-	2/2/16/26	6/17/115/137	-
30	LMG	J	104	-	-	7/24/44/70	0/1/1/1
22	BCR	M	102	-	-	9/29/63/63	0/2/2/2
27	CHL	5	310	15	3/3/20/26	6/37/135/137	-
27	CHL	A	819	1	2/2/18/26	8/25/123/137	-
27	CHL	B	812	-	2/2/20/26	7/37/135/137	-
30	LMG	a	301	-	-	16/39/59/70	0/1/1/1
27	CHL	3	321	13	2/2/16/26	4/13/111/137	-
27	CHL	A	850	1	1/1/20/26	11/37/135/137	-
27	CHL	B	824	2	2/2/18/26	5/28/126/137	-
27	CHL	a	319	36	2/2/17/26	6/19/117/137	-
27	CHL	3	310	13	3/3/20/26	14/37/135/137	-
27	CHL	A	836	36	3/3/20/26	11/37/135/137	-
27	CHL	4	314	-	3/3/16/26	5/13/111/137	-
24	LHG	B	808	27	-	6/36/36/53	-
27	CHL	A	834	1	2/2/20/26	7/37/135/137	-
27	CHL	a	318	36	3/3/16/26	8/18/116/137	-
27	CHL	L	303	-	2/2/19/26	12/31/129/137	-
27	CHL	A	825	1	1/1/20/26	11/37/135/137	-
29	LUT	6	302	-	-	16/29/67/67	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	CHL	A	837	1	2/2/18/26	5/25/123/137	-
27	CHL	K	207	10	3/3/16/26	4/17/115/137	-
27	CHL	A	826	1	1/1/19/26	11/34/132/137	-
27	CHL	5	312	36	3/3/17/26	3/19/117/137	-
27	CHL	5	318	15	3/3/20/26	9/37/135/137	-

All (4598) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	K	204	CHL	MG-ND	-18.47	1.69	2.05
27	b	315	CHL	MG-NB	-18.17	1.69	2.05
29	a	302	LUT	C24-C25	18.02	1.54	1.33
29	6	302	LUT	C24-C25	17.78	1.54	1.33
29	b	301	LUT	C24-C25	17.73	1.54	1.33
27	4	316	CHL	MG-NB	-17.59	1.70	2.05
29	3	305	LUT	C24-C25	17.56	1.54	1.33
29	3	304	LUT	C24-C25	17.51	1.53	1.33
29	5	302	LUT	C24-C25	17.50	1.53	1.33
29	a	304	LUT	C24-C25	17.45	1.53	1.33
29	J	103	LUT	C24-C25	17.45	1.53	1.33
29	4	301	LUT	C24-C25	17.42	1.53	1.33
29	8	304	LUT	C24-C25	17.41	1.53	1.33
29	5	303	LUT	C24-C25	17.34	1.53	1.33
29	8	303	LUT	C24-C25	17.29	1.53	1.33
29	6	303	LUT	C24-C25	17.26	1.53	1.33
29	F	303	LUT	C24-C25	17.25	1.53	1.33
29	4	302	LUT	C24-C25	17.25	1.53	1.33
29	7	304	LUT	C24-C25	17.20	1.53	1.33
27	5	319	CHL	MG-NB	-16.62	1.72	2.05
27	a	309	CHL	MG-NB	-16.04	1.74	2.05
27	6	313	CHL	MG-NB	15.69	2.36	2.05
27	a	312	CHL	MG-NB	-15.08	1.75	2.05
27	5	322	CHL	MG-NB	-14.87	1.76	2.05
27	b	305	CHL	MG-NB	-14.59	1.76	2.05
27	a	318	CHL	MG-NB	-14.33	1.77	2.05
27	b	309	CHL	MG-NB	-14.24	1.77	2.05
27	b	310	CHL	MG-ND	13.93	2.33	2.05
27	6	306	CHL	MG-NB	-13.88	1.78	2.05
27	J	106	CHL	MG-NB	-13.76	1.78	2.05
27	A	836	CHL	MG-NB	-13.63	1.78	2.05
27	6	318	CHL	MG-NB	-13.42	1.79	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	b	315	CHL	MG-ND	13.36	2.32	2.05
29	7	304	LUT	C5-C6	13.26	1.56	1.34
27	a	309	CHL	MG-ND	13.21	2.32	2.05
27	5	315	CHL	MG-NB	-13.19	1.79	2.05
27	7	314	CHL	MG-NB	-13.11	1.79	2.05
27	3	308	CHL	MG-ND	-13.10	1.79	2.05
27	b	310	CHL	MG-NB	-12.92	1.80	2.05
29	J	103	LUT	C5-C6	12.89	1.56	1.34
29	5	302	LUT	C5-C6	12.77	1.55	1.34
29	3	304	LUT	C5-C6	12.75	1.55	1.34
29	4	301	LUT	C5-C6	12.72	1.55	1.34
29	a	302	LUT	C5-C6	12.71	1.55	1.34
29	6	303	LUT	C5-C6	12.66	1.55	1.34
27	K	204	CHL	MG-NB	12.56	2.30	2.05
29	5	303	LUT	C5-C6	12.49	1.55	1.34
29	b	301	LUT	C5-C6	12.40	1.55	1.34
27	5	319	CHL	MG-ND	12.22	2.30	2.05
29	F	303	LUT	C5-C6	12.17	1.54	1.34
27	K	206	CHL	MG-NB	-12.01	1.82	2.05
27	6	306	CHL	MG-ND	11.85	2.29	2.05
27	a	312	CHL	MG-ND	11.81	2.29	2.05
29	8	304	LUT	C5-C6	11.79	1.54	1.34
29	a	304	LUT	C5-C6	11.78	1.54	1.34
29	4	302	LUT	C5-C6	11.75	1.54	1.34
27	4	316	CHL	MG-ND	11.67	2.28	2.05
27	b	313	CHL	MG-ND	-11.59	1.82	2.05
27	3	313	CHL	MG-NB	-11.53	1.82	2.05
29	6	302	LUT	C5-C6	11.52	1.53	1.34
29	3	305	LUT	C5-C6	11.45	1.53	1.34
29	8	303	LUT	C5-C6	11.33	1.53	1.34
27	B	842	CHL	MG-NB	-11.28	1.83	2.05
27	6	319	CHL	C2C-C3C	11.26	1.47	1.36
27	b	317	CHL	MG-NB	-11.15	1.83	2.05
27	b	305	CHL	MG-ND	11.14	2.27	2.05
27	7	314	CHL	MG-ND	10.84	2.27	2.05
27	b	306	CHL	MG-NB	10.83	2.27	2.05
27	J	106	CHL	MG-ND	10.80	2.27	2.05
27	a	318	CHL	MG-ND	10.72	2.27	2.05
27	6	318	CHL	MG-ND	10.49	2.26	2.05
27	b	317	CHL	MG-ND	10.28	2.26	2.05
27	5	322	CHL	MG-ND	10.24	2.26	2.05
27	K	207	CHL	MG-NB	-10.22	1.85	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	825	CHL	MG-NB	10.13	2.25	2.05
27	6	313	CHL	MG-ND	-10.09	1.85	2.05
27	a	307	CHL	MG-NB	-9.87	1.86	2.05
27	6	311	CHL	MG-ND	-9.86	1.86	2.05
27	4	317	CHL	C1D-C2D	9.73	1.50	1.39
27	6	319	CHL	C1D-C2D	9.72	1.50	1.39
27	A	840	CHL	C1A-CHA	9.67	1.51	1.40
27	3	312	CHL	MG-ND	-9.65	1.86	2.05
27	5	316	CHL	C2C-C3C	9.61	1.45	1.36
27	7	322	CHL	MG-NB	-9.58	1.86	2.05
27	a	320	CHL	MG-ND	-9.55	1.86	2.05
27	b	308	CHL	C1B-C2B	-9.54	1.28	1.39
27	5	318	CHL	MG-ND	-9.49	1.87	2.05
27	8	318	CHL	MG-ND	-9.47	1.87	2.05
27	6	308	CHL	C2C-C3C	9.42	1.45	1.36
27	8	324	CHL	MG-NB	-9.37	1.87	2.05
27	b	316	CHL	C2C-C3C	9.36	1.45	1.36
27	b	309	CHL	MG-ND	9.35	2.24	2.05
27	4	310	CHL	MG-ND	-9.30	1.87	2.05
27	A	849	CHL	MG-NB	9.29	2.24	2.05
27	4	316	CHL	C2C-C3C	9.26	1.45	1.36
27	K	207	CHL	MG-ND	9.18	2.24	2.05
27	a	316	CHL	C2C-C3C	9.13	1.45	1.36
27	A	835	CHL	C1A-CHA	9.12	1.50	1.40
27	b	317	CHL	C2C-C3C	9.12	1.45	1.36
27	6	308	CHL	C1D-C2D	9.12	1.49	1.39
27	6	318	CHL	C2C-C3C	9.11	1.45	1.36
27	4	318	CHL	MG-NB	-9.10	1.87	2.05
27	B	832	CHL	C1A-CHA	9.09	1.50	1.40
27	8	324	CHL	C2C-C3C	9.07	1.45	1.36
27	5	319	CHL	C2C-C3C	9.05	1.45	1.36
27	3	309	CHL	C1A-CHA	9.04	1.50	1.40
27	a	318	CHL	C2C-C3C	9.03	1.45	1.36
27	A	836	CHL	MG-ND	9.01	2.23	2.05
27	b	311	CHL	C2C-C3C	8.99	1.45	1.36
27	B	834	CHL	C1A-CHA	8.99	1.50	1.40
27	A	829	CHL	C1A-CHA	8.99	1.50	1.40
27	5	323	CHL	C1A-CHA	8.98	1.50	1.40
27	5	322	CHL	C2C-C3C	8.98	1.45	1.36
27	6	316	CHL	C2C-C3C	8.98	1.45	1.36
27	7	322	CHL	C2C-C3C	8.97	1.45	1.36
27	B	835	CHL	C1A-CHA	8.97	1.50	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	a	309	CHL	C1A-CHA	8.95	1.50	1.40
27	b	316	CHL	MG-NB	-8.95	1.88	2.05
27	A	857	CHL	C1A-CHA	8.94	1.50	1.40
27	A	855	CHL	C1A-CHA	8.93	1.50	1.40
27	5	317	CHL	C2C-C3C	8.92	1.45	1.36
27	A	830	CHL	C1A-CHA	8.92	1.50	1.40
27	7	320	CHL	C2C-C3C	8.92	1.45	1.36
27	4	309	CHL	C2C-C3C	8.91	1.45	1.36
27	A	852	CHL	C1A-CHA	8.90	1.50	1.40
27	4	317	CHL	MG-NB	-8.88	1.88	2.05
27	A	826	CHL	C1A-CHA	8.88	1.50	1.40
27	A	858	CHL	C1A-CHA	8.87	1.50	1.40
27	L	303	CHL	C1D-C2D	8.87	1.49	1.39
27	4	312	CHL	C2C-C3C	8.86	1.45	1.36
27	3	317	CHL	C1A-CHA	8.86	1.50	1.40
27	B	811	CHL	C1A-CHA	8.85	1.50	1.40
27	8	321	CHL	C2C-C3C	8.83	1.44	1.36
27	7	313	CHL	C1A-CHA	8.83	1.50	1.40
27	B	826	CHL	C1A-CHA	8.83	1.50	1.40
27	K	207	CHL	C2C-C3C	8.83	1.44	1.36
27	7	318	CHL	C1A-CHA	8.83	1.50	1.40
27	A	821	CHL	C1A-CHA	8.82	1.50	1.40
27	B	824	CHL	C1A-CHA	8.80	1.50	1.40
27	5	314	CHL	C1A-CHA	8.80	1.50	1.40
27	B	822	CHL	C1A-CHA	8.80	1.50	1.40
27	8	314	CHL	C2C-C3C	8.79	1.44	1.36
27	a	308	CHL	C1A-CHA	8.77	1.50	1.40
27	3	318	CHL	C1A-CHA	8.77	1.50	1.40
27	7	321	CHL	C2C-C3C	8.75	1.44	1.36
27	7	317	CHL	C1A-CHA	8.74	1.49	1.40
27	3	312	CHL	MG-NB	8.73	2.23	2.05
27	B	829	CHL	C1A-CHA	8.73	1.49	1.40
27	7	319	CHL	C2C-C3C	8.72	1.44	1.36
27	A	856	CHL	C1A-CHA	8.72	1.49	1.40
27	A	837	CHL	C1A-CHA	8.71	1.49	1.40
27	3	314	CHL	C1A-CHA	8.71	1.49	1.40
27	8	313	CHL	C1A-CHA	8.71	1.49	1.40
27	F	308	CHL	C1A-CHA	8.71	1.49	1.40
27	5	325	CHL	C2C-C3C	8.71	1.44	1.36
27	6	312	CHL	C1A-CHA	8.71	1.49	1.40
27	5	316	CHL	C1D-C2D	8.70	1.49	1.39
27	6	305	CHL	C1A-CHA	8.70	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	5	308	CHL	C1A-CHA	8.70	1.49	1.40
27	a	315	CHL	C2C-C3C	8.68	1.44	1.36
27	A	841	CHL	C2C-C3C	8.67	1.44	1.36
27	F	309	CHL	C1A-CHA	8.66	1.49	1.40
27	6	317	CHL	C2C-C3C	8.66	1.44	1.36
27	a	310	CHL	C1A-CHA	8.66	1.49	1.40
27	A	828	CHL	C1A-CHA	8.65	1.49	1.40
27	A	820	CHL	C1A-CHA	8.64	1.49	1.40
27	8	325	CHL	C1A-CHA	8.64	1.49	1.40
27	B	817	CHL	C1A-CHA	8.64	1.49	1.40
27	a	311	CHL	C1A-CHA	8.64	1.49	1.40
27	A	851	CHL	C1A-CHA	8.64	1.49	1.40
27	A	845	CHL	C1A-CHA	8.64	1.49	1.40
27	A	819	CHL	C1A-CHA	8.64	1.49	1.40
27	B	845	CHL	C1A-CHA	8.63	1.49	1.40
27	A	833	CHL	C2C-C3C	8.63	1.44	1.36
27	6	313	CHL	C1A-CHA	8.63	1.49	1.40
27	a	317	CHL	C1A-CHA	8.63	1.49	1.40
27	B	813	CHL	C1A-CHA	8.63	1.49	1.40
27	A	824	CHL	C1A-CHA	8.62	1.49	1.40
27	A	854	CHL	C1A-CHA	8.61	1.49	1.40
27	6	306	CHL	C1A-CHA	8.60	1.49	1.40
27	B	814	CHL	C1A-CHA	8.60	1.49	1.40
27	6	307	CHL	C1D-C2D	8.60	1.49	1.39
27	B	838	CHL	C1A-CHA	8.59	1.49	1.40
27	5	315	CHL	MG-ND	8.59	2.22	2.05
27	A	822	CHL	C1A-CHA	8.58	1.49	1.40
27	5	312	CHL	C1A-CHA	8.58	1.49	1.40
27	4	310	CHL	C1A-CHA	8.57	1.49	1.40
27	B	823	CHL	C1A-CHA	8.56	1.49	1.40
27	B	850	CHL	C1A-CHA	8.56	1.49	1.40
27	8	317	CHL	C1A-CHA	8.55	1.49	1.40
27	B	849	CHL	C1A-CHA	8.55	1.49	1.40
27	A	816	CHL	C1A-CHA	8.55	1.49	1.40
27	A	827	CHL	C1A-CHA	8.55	1.49	1.40
27	8	326	CHL	C1A-CHA	8.54	1.49	1.40
27	b	305	CHL	C1A-CHA	8.54	1.49	1.40
27	A	842	CHL	C2C-C3C	8.53	1.44	1.36
27	8	323	CHL	C1D-C2D	8.52	1.49	1.39
27	b	313	CHL	C1A-CHA	8.52	1.49	1.40
27	6	315	CHL	C1A-CHA	8.52	1.49	1.40
27	a	307	CHL	C1A-CHA	8.51	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	7	314	CHL	C1A-CHA	8.51	1.49	1.40
27	4	304	CHL	C1A-CHA	8.51	1.49	1.40
27	B	848	CHL	C1A-CHA	8.51	1.49	1.40
27	B	839	CHL	C1A-CHA	8.51	1.49	1.40
27	3	315	CHL	C1A-CHA	8.50	1.49	1.40
27	A	832	CHL	C1A-CHA	8.50	1.49	1.40
27	3	320	CHL	C3B-C4B	8.49	1.49	1.41
27	b	304	CHL	C1A-CHA	8.49	1.49	1.40
27	4	306	CHL	C1A-CHA	8.49	1.49	1.40
27	4	307	CHL	C1A-CHA	8.48	1.49	1.40
27	b	306	CHL	C1A-CHA	8.48	1.49	1.40
27	b	309	CHL	C1A-CHA	8.47	1.49	1.40
27	8	322	CHL	C1A-CHA	8.47	1.49	1.40
27	B	812	CHL	C1A-CHA	8.47	1.49	1.40
27	b	314	CHL	C1A-CHA	8.47	1.49	1.40
27	8	319	CHL	C1A-CHA	8.46	1.49	1.40
27	7	312	CHL	C1A-CHA	8.46	1.49	1.40
27	A	823	CHL	C1A-CHA	8.45	1.49	1.40
27	8	319	CHL	MG-ND	-8.45	1.89	2.05
27	B	840	CHL	C1A-CHA	8.45	1.49	1.40
27	4	305	CHL	C1A-CHA	8.44	1.49	1.40
27	8	317	CHL	MG-NB	-8.44	1.89	2.05
27	8	318	CHL	C1A-CHA	8.43	1.49	1.40
27	A	859	CHL	C1A-CHA	8.43	1.49	1.40
27	B	819	CHL	C1A-CHA	8.43	1.49	1.40
27	J	106	CHL	C1A-CHA	8.43	1.49	1.40
27	6	311	CHL	C1A-CHA	8.43	1.49	1.40
27	L	304	CHL	C1A-CHA	8.43	1.49	1.40
27	b	312	CHL	C1A-CHA	8.43	1.49	1.40
27	3	316	CHL	C2C-C3C	8.43	1.44	1.36
27	5	309	CHL	C1A-CHA	8.42	1.49	1.40
27	A	825	CHL	C1A-CHA	8.39	1.49	1.40
27	B	815	CHL	C1A-CHA	8.38	1.49	1.40
27	a	315	CHL	MG-NB	-8.38	1.89	2.05
27	L	304	CHL	C3B-C4B	8.38	1.49	1.41
27	3	319	CHL	C1A-CHA	8.38	1.49	1.40
27	4	311	CHL	C1A-CHA	8.38	1.49	1.40
27	6	314	CHL	C1A-CHA	8.38	1.49	1.40
27	B	818	CHL	C1A-CHA	8.38	1.49	1.40
27	5	310	CHL	C1A-CHA	8.38	1.49	1.40
27	B	830	CHL	C1A-CHA	8.37	1.49	1.40
27	4	319	CHL	C3B-C4B	8.36	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	838	CHL	C1A-CHA	8.35	1.49	1.40
27	B	842	CHL	C1A-CHA	8.34	1.49	1.40
27	5	321	CHL	C1A-CHA	8.34	1.49	1.40
27	B	851	CHL	C1A-CHA	8.34	1.49	1.40
27	a	312	CHL	C1A-CHA	8.34	1.49	1.40
27	8	315	CHL	C1A-CHA	8.34	1.49	1.40
27	K	206	CHL	C1A-CHA	8.33	1.49	1.40
27	A	839	CHL	C1A-CHA	8.33	1.49	1.40
27	a	319	CHL	C1A-CHA	8.33	1.49	1.40
27	B	812	CHL	C3B-C4B	8.32	1.49	1.41
27	3	308	CHL	C1A-CHA	8.31	1.49	1.40
27	A	858	CHL	C3B-C4B	8.31	1.49	1.41
27	B	814	CHL	C3B-C4B	8.31	1.49	1.41
27	B	811	CHL	C1B-C2B	8.31	1.49	1.39
27	7	316	CHL	C1A-CHA	8.31	1.49	1.40
27	4	318	CHL	C1A-CHA	8.31	1.49	1.40
27	B	828	CHL	C3B-C4B	8.30	1.49	1.41
27	a	320	CHL	C1A-CHA	8.30	1.49	1.40
27	K	205	CHL	C1A-CHA	8.29	1.49	1.40
27	3	321	CHL	C1A-CHA	8.29	1.49	1.40
27	5	311	CHL	C1A-CHA	8.29	1.49	1.40
27	B	821	CHL	C1A-CHA	8.29	1.49	1.40
27	B	851	CHL	C3B-C4B	8.28	1.49	1.41
27	8	320	CHL	C1A-CHA	8.27	1.49	1.40
27	6	310	CHL	C1A-CHA	8.27	1.49	1.40
27	A	849	CHL	C1A-CHA	8.26	1.49	1.40
27	b	307	CHL	C1A-CHA	8.26	1.49	1.40
27	B	843	CHL	C1A-CHA	8.25	1.49	1.40
27	4	308	CHL	C1A-CHA	8.25	1.49	1.40
27	8	311	CHL	C1A-CHA	8.25	1.49	1.40
27	8	316	CHL	C1A-CHA	8.24	1.49	1.40
27	B	840	CHL	C3B-C4B	8.24	1.49	1.41
27	3	311	CHL	C1A-CHA	8.24	1.49	1.40
27	a	313	CHL	C1A-CHA	8.23	1.49	1.40
27	5	307	CHL	C3B-C4B	8.23	1.49	1.41
27	b	315	CHL	C3B-C4B	8.23	1.49	1.41
27	K	204	CHL	C1A-CHA	8.22	1.49	1.40
27	a	307	CHL	C3B-C4B	8.22	1.49	1.41
27	6	320	CHL	C1A-CHA	8.22	1.49	1.40
27	4	320	CHL	C1A-CHA	8.22	1.49	1.40
27	4	310	CHL	C3B-C4B	8.21	1.49	1.41
27	5	315	CHL	C1A-CHA	8.21	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	7	324	CHL	C1A-CHA	8.21	1.49	1.40
27	A	835	CHL	MG-ND	-8.20	1.89	2.05
27	4	315	CHL	C1A-CHA	8.20	1.49	1.40
27	5	320	CHL	C1A-CHA	8.20	1.49	1.40
27	6	311	CHL	C3B-C4B	8.20	1.49	1.41
27	8	315	CHL	C3B-C4B	8.20	1.49	1.41
27	5	309	CHL	C1B-C2B	8.19	1.48	1.39
27	A	818	CHL	C1A-CHA	8.19	1.49	1.40
27	5	313	CHL	C1D-C2D	8.19	1.48	1.39
27	A	820	CHL	C3B-C4B	8.19	1.49	1.41
27	A	853	CHL	C1A-CHA	8.19	1.49	1.40
27	3	310	CHL	C1A-CHA	8.18	1.49	1.40
27	B	847	CHL	C1A-CHA	8.18	1.49	1.40
27	3	313	CHL	C1A-CHA	8.18	1.49	1.40
27	8	312	CHL	C1A-CHA	8.17	1.49	1.40
27	5	307	CHL	C1A-CHA	8.17	1.49	1.40
27	B	816	CHL	C1A-CHA	8.17	1.49	1.40
27	b	310	CHL	C3B-C4B	8.16	1.49	1.41
27	b	315	CHL	C1A-CHA	8.16	1.49	1.40
27	B	850	CHL	C3B-C4B	8.16	1.49	1.41
27	b	314	CHL	C3B-C4B	8.15	1.49	1.41
27	7	315	CHL	C1A-CHA	8.15	1.49	1.40
27	b	306	CHL	C3B-C4B	8.15	1.49	1.41
27	3	314	CHL	C3B-C4B	8.14	1.49	1.41
27	8	312	CHL	C3B-C4B	8.14	1.49	1.41
27	4	314	CHL	C1A-CHA	8.14	1.49	1.40
27	3	318	CHL	C1B-C2B	8.13	1.48	1.39
27	A	834	CHL	C1A-CHA	8.13	1.49	1.40
27	B	833	CHL	C1A-CHA	8.13	1.49	1.40
27	B	841	CHL	C1A-CHA	8.12	1.49	1.40
27	b	309	CHL	C3B-C4B	8.12	1.49	1.41
27	A	818	CHL	C1B-C2B	8.11	1.48	1.39
27	8	313	CHL	C1B-C2B	8.11	1.48	1.39
27	5	321	CHL	C3B-C4B	8.11	1.49	1.41
27	B	836	CHL	C1A-CHA	8.11	1.49	1.40
27	a	312	CHL	C3B-C4B	8.11	1.49	1.41
27	K	204	CHL	C1B-C2B	8.11	1.48	1.39
27	A	831	CHL	C1D-C2D	8.11	1.48	1.39
27	F	309	CHL	C3B-C4B	8.10	1.49	1.41
27	A	855	CHL	C3B-C4B	8.10	1.49	1.41
27	6	319	CHL	C1B-C2B	8.09	1.48	1.39
27	5	320	CHL	C3B-C4B	8.09	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	4	315	CHL	C3B-C4B	8.09	1.49	1.41
27	B	847	CHL	C3B-C4B	8.08	1.49	1.41
27	A	853	CHL	C1B-C2B	8.08	1.48	1.39
27	4	319	CHL	C1D-C2D	8.08	1.48	1.39
27	B	849	CHL	C3B-C4B	8.08	1.49	1.41
27	a	314	CHL	C3B-C4B	8.08	1.49	1.41
27	6	309	CHL	C1A-CHA	8.08	1.49	1.40
27	b	304	CHL	C3B-C4B	8.07	1.49	1.41
27	B	846	CHL	C1A-CHA	8.07	1.49	1.40
27	4	311	CHL	C1B-C2B	8.07	1.48	1.39
29	4	302	LUT	C30-C29	8.07	1.54	1.35
27	A	847	CHL	C1A-CHA	8.06	1.49	1.40
27	B	837	CHL	C1A-CHA	8.06	1.49	1.40
27	F	308	CHL	C1B-C2B	8.06	1.48	1.39
27	A	836	CHL	C3B-C4B	8.06	1.49	1.41
27	A	846	CHL	C1D-C2D	8.06	1.48	1.39
27	a	320	CHL	C3B-C4B	8.06	1.49	1.41
27	a	310	CHL	MG-ND	-8.06	1.89	2.05
27	a	314	CHL	C1A-CHA	8.06	1.49	1.40
27	B	816	CHL	C1B-C2B	8.05	1.48	1.39
27	b	312	CHL	C1B-C2B	8.05	1.48	1.39
27	5	318	CHL	C1A-CHA	8.05	1.49	1.40
27	B	820	CHL	C1A-CHA	8.04	1.49	1.40
27	A	819	CHL	C3B-C4B	8.04	1.49	1.41
27	8	326	CHL	C1B-C2B	8.04	1.48	1.39
27	7	318	CHL	C1B-C2B	8.04	1.48	1.39
27	A	848	CHL	C1A-CHA	8.04	1.49	1.40
27	b	313	CHL	C1B-C2B	8.04	1.48	1.39
27	a	313	CHL	C3B-C4B	8.04	1.49	1.41
27	A	844	CHL	C3B-C4B	8.04	1.49	1.41
27	7	323	CHL	C1B-C2B	8.04	1.48	1.39
27	7	314	CHL	C3B-C4B	8.03	1.49	1.41
27	B	844	CHL	C1A-CHA	8.03	1.49	1.40
27	5	308	CHL	C1B-C2B	8.03	1.48	1.39
27	3	312	CHL	C1A-CHA	8.03	1.49	1.40
27	4	318	CHL	C3B-C4B	8.03	1.49	1.41
27	B	845	CHL	C1B-C2B	8.03	1.48	1.39
27	A	830	CHL	C3B-C4B	8.03	1.49	1.41
27	A	857	CHL	C1B-C2B	8.03	1.48	1.39
27	7	311	CHL	C1A-CHA	8.02	1.49	1.40
27	B	839	CHL	C3B-C4B	8.02	1.49	1.41
27	8	319	CHL	C3B-C4B	8.02	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	6	310	CHL	C1B-C2B	8.02	1.48	1.39
27	a	311	CHL	C3B-C4B	8.02	1.49	1.41
27	6	314	CHL	C3B-C4B	8.01	1.49	1.41
27	a	309	CHL	C1B-C2B	8.01	1.48	1.39
27	K	205	CHL	C1B-C2B	8.01	1.48	1.39
27	8	318	CHL	C3B-C4B	8.01	1.49	1.41
27	b	310	CHL	C1B-C2B	8.01	1.48	1.39
27	a	308	CHL	C3B-C4B	8.01	1.49	1.41
27	7	311	CHL	C3B-C4B	8.00	1.49	1.41
27	4	320	CHL	C1B-C2B	8.00	1.48	1.39
27	6	314	CHL	C1B-C2B	8.00	1.48	1.39
27	A	816	CHL	C3B-C4B	8.00	1.49	1.41
27	5	315	CHL	C3B-C4B	8.00	1.49	1.41
27	7	324	CHL	C3B-C4B	8.00	1.49	1.41
27	B	823	CHL	C1B-C2B	8.00	1.48	1.39
27	4	311	CHL	C3B-C4B	7.99	1.49	1.41
27	b	305	CHL	C1B-C2B	7.99	1.48	1.39
27	A	821	CHL	C3B-C4B	7.99	1.49	1.41
27	B	838	CHL	C3B-C4B	7.99	1.49	1.41
27	3	309	CHL	C3B-C4B	7.99	1.49	1.41
27	A	828	CHL	C3B-C4B	7.99	1.49	1.41
27	A	827	CHL	C3B-C4B	7.99	1.49	1.41
26	A	815	CL0	C1B-C2B	7.99	1.48	1.39
27	A	840	CHL	C1B-C2B	7.99	1.48	1.39
27	4	318	CHL	C1B-C2B	7.99	1.48	1.39
27	B	834	CHL	C3B-C4B	7.98	1.49	1.41
27	a	319	CHL	C3B-C4B	7.98	1.49	1.41
27	4	304	CHL	C3B-C4B	7.98	1.49	1.41
27	A	817	CHL	C3B-C4B	7.98	1.49	1.41
27	B	826	CHL	C3B-C4B	7.98	1.49	1.41
27	5	318	CHL	C1B-C2B	7.97	1.48	1.39
27	a	319	CHL	C1B-C2B	7.97	1.48	1.39
27	6	309	CHL	C1B-C2B	7.97	1.48	1.39
27	B	825	CHL	C1A-CHA	7.97	1.49	1.40
27	B	817	CHL	C1B-C2B	7.97	1.48	1.39
27	4	314	CHL	C3B-C4B	7.97	1.49	1.41
27	b	310	CHL	C1D-C2D	7.96	1.48	1.39
27	A	832	CHL	C1B-C2B	7.96	1.48	1.39
27	B	824	CHL	C1B-C2B	7.96	1.48	1.39
27	4	319	CHL	C1A-CHA	7.96	1.49	1.40
27	4	310	CHL	C1B-C2B	7.96	1.48	1.39
27	b	312	CHL	C3B-C4B	7.95	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	813	CHL	C3B-C4B	7.95	1.49	1.41
27	b	313	CHL	C3B-C4B	7.95	1.49	1.41
26	A	815	CL0	C1D-C2D	7.95	1.48	1.39
27	A	850	CHL	C1A-CHA	7.95	1.49	1.40
27	6	315	CHL	C1B-C2B	7.95	1.48	1.39
27	7	313	CHL	C1B-C2B	7.94	1.48	1.39
27	5	314	CHL	C1B-C2B	7.94	1.48	1.39
27	b	309	CHL	C1B-C2B	7.94	1.48	1.39
27	B	833	CHL	MG-NB	-7.94	1.90	2.05
27	A	825	CHL	C3B-C4B	7.94	1.49	1.41
27	4	306	CHL	C1B-C2B	7.94	1.48	1.39
27	8	318	CHL	C1B-C2B	7.93	1.48	1.39
27	B	843	CHL	C3B-C4B	7.93	1.49	1.41
27	7	316	CHL	C3B-C4B	7.93	1.49	1.41
27	B	842	CHL	MG-ND	7.93	2.21	2.05
27	7	324	CHL	C1B-C2B	7.93	1.48	1.39
27	B	841	CHL	C1B-C2B	7.93	1.48	1.39
27	b	304	CHL	C1B-C2B	7.93	1.48	1.39
29	4	301	LUT	C30-C29	7.92	1.54	1.35
27	K	205	CHL	C3B-C4B	7.92	1.49	1.41
27	7	312	CHL	C1B-C2B	7.92	1.48	1.39
27	4	307	CHL	C3B-C4B	7.92	1.49	1.41
27	8	322	CHL	C3B-C4B	7.92	1.49	1.41
27	A	847	CHL	C3B-C4B	7.92	1.49	1.41
27	B	815	CHL	C3B-C4B	7.92	1.49	1.41
27	5	320	CHL	C1B-C2B	7.92	1.48	1.39
27	B	833	CHL	C3B-C4B	7.91	1.49	1.41
27	J	106	CHL	C1B-C2B	7.91	1.48	1.39
27	B	822	CHL	C3B-C4B	7.91	1.49	1.41
27	b	314	CHL	C1B-C2B	7.91	1.48	1.39
27	6	310	CHL	C3B-C4B	7.91	1.49	1.41
27	5	315	CHL	C1B-C2B	7.91	1.48	1.39
27	A	824	CHL	C1B-C2B	7.91	1.48	1.39
27	5	321	CHL	C1B-C2B	7.91	1.48	1.39
27	B	835	CHL	C3B-C4B	7.91	1.49	1.41
27	A	837	CHL	C1B-C2B	7.90	1.48	1.39
27	B	829	CHL	C1B-C2B	7.90	1.48	1.39
27	b	317	CHL	C1B-C2B	7.90	1.48	1.39
27	B	837	CHL	C3B-C4B	7.90	1.49	1.41
27	7	322	CHL	C1B-C2B	7.90	1.48	1.39
27	A	844	CHL	C1A-CHA	7.90	1.49	1.40
27	A	835	CHL	C1B-C2B	7.90	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	321	CHL	C1B-C2B	7.90	1.48	1.39
27	6	317	CHL	C1B-C2B	7.90	1.48	1.39
27	6	315	CHL	C3B-C4B	7.90	1.49	1.41
27	3	319	CHL	C1B-C2B	7.89	1.48	1.39
27	7	319	CHL	C1B-C2B	7.89	1.48	1.39
27	a	317	CHL	C1B-C2B	7.89	1.48	1.39
29	a	304	LUT	C30-C29	7.89	1.54	1.35
27	A	851	CHL	C3B-C4B	7.89	1.49	1.41
27	B	831	CHL	C1A-CHA	7.89	1.49	1.40
27	6	320	CHL	C3B-C4B	7.89	1.49	1.41
27	4	319	CHL	C1B-C2B	7.89	1.48	1.39
27	A	823	CHL	C3B-C4B	7.89	1.49	1.41
27	b	307	CHL	C3B-C4B	7.89	1.49	1.41
27	J	106	CHL	C3B-C4B	7.89	1.49	1.41
27	5	314	CHL	C3B-C4B	7.89	1.49	1.41
27	4	305	CHL	C1B-C2B	7.88	1.48	1.39
27	A	852	CHL	C1B-C2B	7.88	1.48	1.39
27	7	321	CHL	C3A-C2A	-7.88	1.47	1.54
27	8	320	CHL	C1B-C2B	7.88	1.48	1.39
29	b	301	LUT	C14-C13	7.88	1.54	1.35
27	3	314	CHL	C1B-C2B	7.88	1.48	1.39
27	7	312	CHL	C3B-C4B	7.88	1.49	1.41
27	a	316	CHL	C1B-C2B	7.88	1.48	1.39
27	b	306	CHL	C1B-C2B	7.88	1.48	1.39
27	3	310	CHL	C1B-C2B	7.87	1.48	1.39
29	5	303	LUT	C10-C9	7.87	1.54	1.35
27	B	823	CHL	C3B-C4B	7.87	1.49	1.41
27	3	309	CHL	C1B-C2B	7.87	1.48	1.39
27	B	825	CHL	C3B-C4B	7.86	1.49	1.41
27	B	832	CHL	C3B-C4B	7.86	1.49	1.41
27	b	307	CHL	C1B-C2B	7.86	1.48	1.39
29	b	301	LUT	C30-C29	7.86	1.54	1.35
27	B	826	CHL	C1B-C2B	7.86	1.48	1.39
27	6	320	CHL	C1B-C2B	7.86	1.48	1.39
27	B	830	CHL	C3B-C4B	7.86	1.49	1.41
29	6	302	LUT	C30-C29	7.86	1.54	1.35
27	3	311	CHL	C1B-C2B	7.86	1.48	1.39
27	8	322	CHL	C1B-C2B	7.86	1.48	1.39
27	B	831	CHL	C3B-C4B	7.86	1.49	1.41
27	5	310	CHL	C1B-C2B	7.86	1.48	1.39
29	8	303	LUT	C14-C13	7.86	1.54	1.35
27	B	841	CHL	C3B-C4B	7.85	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	312	CHL	C3B-C4B	7.85	1.49	1.41
27	8	316	CHL	C3B-C4B	7.85	1.49	1.41
27	A	821	CHL	C1B-C2B	7.85	1.48	1.39
27	b	305	CHL	C3B-C4B	7.85	1.49	1.41
27	4	312	CHL	C1D-C2D	7.85	1.48	1.39
27	A	838	CHL	C1B-C2B	7.85	1.48	1.39
29	3	305	LUT	C30-C29	7.84	1.53	1.35
27	7	317	CHL	C1B-C2B	7.84	1.48	1.39
27	B	848	CHL	C3B-C4B	7.84	1.49	1.41
27	L	304	CHL	C1B-C2B	7.84	1.48	1.39
27	B	827	CHL	C1A-CHA	7.84	1.48	1.40
27	A	822	CHL	C3B-C4B	7.84	1.49	1.41
29	6	303	LUT	C30-C29	7.84	1.53	1.35
27	8	317	CHL	C1B-C2B	7.84	1.48	1.39
27	6	306	CHL	C3B-C4B	7.83	1.49	1.41
27	a	320	CHL	C1B-C2B	7.83	1.48	1.39
27	B	820	CHL	C3B-C4B	7.83	1.49	1.41
27	B	820	CHL	C1B-C2B	7.83	1.48	1.39
27	3	308	CHL	C3B-C4B	7.83	1.49	1.41
27	3	321	CHL	C3B-C4B	7.83	1.49	1.41
27	8	324	CHL	C1B-C2B	7.83	1.48	1.39
27	8	311	CHL	C1B-C2B	7.83	1.48	1.39
29	4	302	LUT	C14-C13	7.83	1.53	1.35
27	4	314	CHL	C1B-C2B	7.83	1.48	1.39
27	b	308	CHL	C1A-CHA	7.83	1.48	1.40
27	A	834	CHL	C3B-C4B	7.83	1.49	1.41
27	5	313	CHL	C1B-C2B	7.82	1.48	1.39
27	B	819	CHL	C1B-C2B	7.82	1.48	1.39
27	5	309	CHL	C3B-C4B	7.82	1.49	1.41
27	A	859	CHL	C3B-C4B	7.82	1.49	1.41
27	6	313	CHL	C3B-C4B	7.82	1.49	1.41
27	B	821	CHL	C1B-C2B	7.82	1.48	1.39
27	3	319	CHL	C3B-C4B	7.82	1.49	1.41
27	8	321	CHL	C1B-C2B	7.82	1.48	1.39
27	B	840	CHL	C1B-C2B	7.82	1.48	1.39
27	5	310	CHL	C3B-C4B	7.82	1.49	1.41
27	3	315	CHL	C3B-C4B	7.81	1.49	1.41
27	4	320	CHL	C3B-C4B	7.81	1.49	1.41
27	8	320	CHL	C3B-C4B	7.81	1.49	1.41
27	4	315	CHL	C1B-C2B	7.81	1.48	1.39
27	a	318	CHL	C1B-C2B	7.81	1.48	1.39
27	8	317	CHL	C3B-C4B	7.81	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	832	CHL	C3B-C4B	7.81	1.49	1.41
29	6	303	LUT	C10-C9	7.81	1.53	1.35
27	A	854	CHL	C3B-C4B	7.81	1.49	1.41
27	B	845	CHL	C3B-C4B	7.80	1.49	1.41
27	6	305	CHL	C1B-C2B	7.80	1.48	1.39
27	a	308	CHL	C1B-C2B	7.80	1.48	1.39
27	4	318	CHL	C1D-C2D	7.80	1.48	1.39
27	5	312	CHL	C1B-C2B	7.80	1.48	1.39
29	8	304	LUT	C14-C13	7.80	1.53	1.35
27	6	313	CHL	C1B-C2B	7.79	1.48	1.39
27	B	842	CHL	C1B-C2B	7.79	1.48	1.39
27	a	312	CHL	C1B-C2B	7.79	1.48	1.39
29	7	304	LUT	C30-C29	7.79	1.53	1.35
27	8	319	CHL	C1B-C2B	7.79	1.48	1.39
29	a	302	LUT	C30-C29	7.79	1.53	1.35
27	4	308	CHL	C1B-C2B	7.78	1.48	1.39
27	a	309	CHL	C3B-C4B	7.78	1.49	1.41
27	A	817	CHL	C1A-CHA	7.78	1.48	1.40
27	B	844	CHL	C3B-C4B	7.78	1.49	1.41
27	4	306	CHL	C3B-C4B	7.78	1.49	1.41
27	A	837	CHL	C3B-C4B	7.78	1.49	1.41
27	b	311	CHL	C1B-C2B	7.78	1.48	1.39
27	a	317	CHL	C3B-C4B	7.78	1.49	1.41
27	A	846	CHL	C1B-C2B	7.78	1.48	1.39
27	A	851	CHL	C1B-C2B	7.77	1.48	1.39
29	3	304	LUT	C30-C29	7.77	1.53	1.35
27	A	841	CHL	C3A-C2A	-7.77	1.48	1.54
27	A	856	CHL	C1B-C2B	7.77	1.48	1.39
27	a	310	CHL	C3B-C4B	7.77	1.49	1.41
27	3	317	CHL	C1B-C2B	7.77	1.48	1.39
27	4	305	CHL	C3B-C4B	7.76	1.48	1.41
29	5	302	LUT	C30-C29	7.76	1.53	1.35
27	B	825	CHL	C1B-C2B	7.76	1.48	1.39
27	6	305	CHL	C3B-C4B	7.76	1.48	1.41
27	A	857	CHL	C3B-C4B	7.76	1.48	1.41
27	A	839	CHL	C3B-C4B	7.76	1.48	1.41
27	B	833	CHL	C1B-C2B	7.76	1.48	1.39
27	8	311	CHL	C3B-C4B	7.75	1.48	1.41
27	L	304	CHL	C1D-C2D	7.75	1.48	1.39
27	5	312	CHL	C3B-C4B	7.75	1.48	1.41
27	A	855	CHL	C1B-C2B	7.75	1.48	1.39
27	A	826	CHL	C3B-C4B	7.75	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	F	303	LUT	C30-C29	7.75	1.53	1.35
27	A	849	CHL	C3B-C4B	7.75	1.48	1.41
27	a	313	CHL	C1B-C2B	7.75	1.48	1.39
27	b	316	CHL	C1D-C2D	7.75	1.48	1.39
27	3	317	CHL	C3B-C4B	7.75	1.48	1.41
27	A	816	CHL	C1B-C2B	7.74	1.48	1.39
27	b	316	CHL	C1B-C2B	7.74	1.48	1.39
27	3	310	CHL	C3B-C4B	7.74	1.48	1.41
29	4	302	LUT	C10-C9	7.74	1.53	1.35
27	6	309	CHL	C3B-C4B	7.74	1.48	1.41
27	a	314	CHL	C1B-C2B	7.74	1.48	1.39
27	b	309	CHL	C1D-C2D	7.74	1.48	1.39
27	8	325	CHL	C1B-C2B	7.74	1.48	1.39
27	B	835	CHL	C1B-C2B	7.74	1.48	1.39
27	K	207	CHL	C1D-C2D	7.74	1.48	1.39
27	K	204	CHL	C3B-C4B	7.73	1.48	1.41
29	8	304	LUT	C10-C9	7.73	1.53	1.35
29	8	304	LUT	C30-C29	7.73	1.53	1.35
27	4	317	CHL	C1B-C2B	7.73	1.48	1.39
27	B	848	CHL	C1B-C2B	7.73	1.48	1.39
27	K	207	CHL	C1B-C2B	7.73	1.48	1.39
27	B	831	CHL	C1B-C2B	7.72	1.48	1.39
29	J	103	LUT	C30-C29	7.72	1.53	1.35
29	6	303	LUT	C14-C13	7.72	1.53	1.35
27	4	313	CHL	C1D-C2D	7.72	1.48	1.39
29	4	302	LUT	C34-C33	7.71	1.53	1.35
27	a	318	CHL	C1D-C2D	7.71	1.48	1.39
27	F	309	CHL	C1B-C2B	7.71	1.48	1.39
27	a	311	CHL	C1B-C2B	7.71	1.48	1.39
27	b	317	CHL	C1D-C2D	7.71	1.48	1.39
27	a	314	CHL	C1D-C2D	7.71	1.48	1.39
27	K	205	CHL	C1D-C2D	7.71	1.48	1.39
27	4	309	CHL	C1D-C2D	7.70	1.48	1.39
27	5	325	CHL	C1B-C2B	7.70	1.48	1.39
27	5	318	CHL	C3B-C4B	7.70	1.48	1.41
27	5	323	CHL	C1B-C2B	7.69	1.48	1.39
27	b	310	CHL	C1A-CHA	7.69	1.48	1.40
27	6	316	CHL	C1B-C2B	7.69	1.48	1.39
27	4	311	CHL	C1D-C2D	7.69	1.48	1.39
27	6	306	CHL	C1B-C2B	7.69	1.48	1.39
27	3	320	CHL	C1A-CHA	7.68	1.48	1.40
27	A	848	CHL	C3B-C4B	7.68	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	839	CHL	C1B-C2B	7.68	1.48	1.39
27	A	820	CHL	C1B-C2B	7.68	1.48	1.39
27	4	308	CHL	C3B-C4B	7.68	1.48	1.41
27	6	312	CHL	C1B-C2B	7.68	1.48	1.39
27	4	312	CHL	C1B-C2B	7.68	1.48	1.39
29	4	301	LUT	C10-C9	7.68	1.53	1.35
27	B	814	CHL	C1B-C2B	7.67	1.48	1.39
29	6	302	LUT	C10-C9	7.67	1.53	1.35
29	5	302	LUT	C10-C9	7.67	1.53	1.35
27	8	325	CHL	C3B-C4B	7.67	1.48	1.41
27	A	843	CHL	C1D-C2D	7.67	1.48	1.39
27	B	836	CHL	C3B-C4B	7.67	1.48	1.41
29	5	303	LUT	C30-C29	7.67	1.53	1.35
27	5	308	CHL	C3B-C4B	7.66	1.48	1.41
27	A	823	CHL	C1B-C2B	7.66	1.48	1.39
27	B	849	CHL	C1B-C2B	7.66	1.48	1.39
27	b	315	CHL	C1B-C2B	7.66	1.48	1.39
29	8	303	LUT	C30-C29	7.66	1.53	1.35
27	A	848	CHL	C1B-C2B	7.66	1.48	1.39
27	A	829	CHL	C1B-C2B	7.66	1.48	1.39
27	6	311	CHL	C1B-C2B	7.66	1.48	1.39
27	A	835	CHL	C3B-C4B	7.66	1.48	1.41
27	b	305	CHL	C1D-C2D	7.66	1.48	1.39
29	a	304	LUT	C34-C33	7.66	1.53	1.35
27	A	858	CHL	C1B-C2B	7.65	1.48	1.39
27	3	313	CHL	C1B-C2B	7.65	1.48	1.39
27	5	317	CHL	C3A-C2A	-7.65	1.48	1.54
27	B	847	CHL	C1B-C2B	7.65	1.48	1.39
27	5	322	CHL	C1B-C2B	7.65	1.48	1.39
27	B	813	CHL	C1B-C2B	7.65	1.48	1.39
27	B	824	CHL	C3B-C4B	7.64	1.48	1.41
27	6	307	CHL	C1B-C2B	7.64	1.48	1.39
27	A	826	CHL	C1B-C2B	7.64	1.48	1.39
27	a	315	CHL	C1D-C2D	7.64	1.48	1.39
27	a	316	CHL	C1D-C2D	7.64	1.48	1.39
27	6	316	CHL	C1D-C2D	7.64	1.48	1.39
27	6	308	CHL	C1B-C2B	7.64	1.48	1.39
27	7	318	CHL	C3B-C4B	7.64	1.48	1.41
27	A	859	CHL	MG-ND	-7.64	1.90	2.05
27	6	318	CHL	C1B-C2B	7.63	1.48	1.39
27	6	315	CHL	MG-ND	7.63	2.20	2.05
27	B	821	CHL	C3B-C4B	7.63	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	849	CHL	C1B-C2B	7.63	1.48	1.39
27	A	856	CHL	C3B-C4B	7.63	1.48	1.41
27	a	310	CHL	C1B-C2B	7.63	1.48	1.39
27	4	316	CHL	C1D-C2D	7.63	1.48	1.39
27	7	315	CHL	C1B-C2B	7.62	1.48	1.39
27	A	830	CHL	C1B-C2B	7.62	1.48	1.39
27	B	819	CHL	C3B-C4B	7.62	1.48	1.41
27	B	827	CHL	C3B-C4B	7.62	1.48	1.41
29	4	301	LUT	C14-C13	7.62	1.53	1.35
27	A	824	CHL	C3B-C4B	7.62	1.48	1.41
27	A	853	CHL	C3B-C4B	7.62	1.48	1.41
27	6	317	CHL	C1D-C2D	7.61	1.48	1.39
27	B	832	CHL	C1B-C2B	7.61	1.48	1.39
29	5	302	LUT	C14-C13	7.61	1.53	1.35
27	A	845	CHL	C1B-C2B	7.61	1.48	1.39
29	3	304	LUT	C14-C13	7.61	1.53	1.35
27	B	846	CHL	C3B-C4B	7.61	1.48	1.41
29	3	305	LUT	C14-C13	7.61	1.53	1.35
29	6	302	LUT	C14-C13	7.61	1.53	1.35
27	B	850	CHL	C1B-C2B	7.60	1.48	1.39
29	b	301	LUT	C10-C9	7.60	1.53	1.35
27	3	311	CHL	C3B-C4B	7.60	1.48	1.41
27	B	838	CHL	C1B-C2B	7.60	1.48	1.39
29	8	303	LUT	C10-C9	7.60	1.53	1.35
27	5	311	CHL	C3B-C4B	7.60	1.48	1.41
27	A	854	CHL	C1B-C2B	7.60	1.48	1.39
27	4	314	CHL	C1D-C2D	7.60	1.48	1.39
29	J	103	LUT	C10-C9	7.60	1.53	1.35
27	B	844	CHL	C1B-C2B	7.60	1.48	1.39
27	A	850	CHL	C3B-C4B	7.60	1.48	1.41
27	5	320	CHL	C1D-C2D	7.59	1.48	1.39
27	3	318	CHL	C3B-C4B	7.59	1.48	1.41
27	A	836	CHL	C1A-CHA	7.59	1.48	1.40
27	B	830	CHL	C1B-C2B	7.59	1.48	1.39
27	A	825	CHL	C1B-C2B	7.59	1.48	1.39
27	A	852	CHL	C3B-C4B	7.59	1.48	1.41
29	a	304	LUT	C14-C13	7.59	1.53	1.35
27	7	314	CHL	C1B-C2B	7.59	1.48	1.39
27	A	838	CHL	C3B-C4B	7.58	1.48	1.41
27	B	820	CHL	C1D-C2D	7.58	1.48	1.39
27	4	309	CHL	C1B-C2B	7.58	1.48	1.39
27	5	322	CHL	C1D-C2D	7.58	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	7	320	CHL	C1B-C2B	7.58	1.48	1.39
27	8	316	CHL	C1B-C2B	7.58	1.48	1.39
29	J	103	LUT	C34-C33	7.58	1.53	1.35
27	5	315	CHL	C1D-C2D	7.58	1.48	1.39
27	4	307	CHL	C1B-C2B	7.57	1.48	1.39
27	4	313	CHL	C1B-C2B	7.57	1.48	1.39
27	4	316	CHL	C1B-C2B	7.57	1.48	1.39
27	A	827	CHL	C1B-C2B	7.57	1.48	1.39
27	8	326	CHL	C3B-C4B	7.57	1.48	1.41
27	B	837	CHL	C1B-C2B	7.56	1.48	1.39
27	5	319	CHL	C1D-C2D	7.56	1.48	1.39
27	b	306	CHL	C1D-C2D	7.56	1.48	1.39
27	3	315	CHL	C1B-C2B	7.56	1.48	1.39
27	5	319	CHL	C1B-C2B	7.56	1.48	1.39
29	F	303	LUT	C10-C9	7.56	1.53	1.35
27	3	312	CHL	C1B-C2B	7.56	1.48	1.39
27	B	815	CHL	C1B-C2B	7.56	1.48	1.39
27	b	312	CHL	C1D-C2D	7.56	1.48	1.39
29	a	302	LUT	C14-C13	7.55	1.53	1.35
27	6	318	CHL	C1D-C2D	7.55	1.48	1.39
29	3	304	LUT	C10-C9	7.55	1.53	1.35
27	a	319	CHL	C1D-C2D	7.55	1.48	1.39
29	J	103	LUT	C14-C13	7.55	1.53	1.35
27	A	829	CHL	C3B-C4B	7.55	1.48	1.41
27	B	829	CHL	C3B-C4B	7.55	1.48	1.41
27	K	206	CHL	C3B-C4B	7.55	1.48	1.41
27	A	842	CHL	C3A-C2A	-7.55	1.48	1.54
27	A	859	CHL	C1B-C2B	7.54	1.48	1.39
27	3	320	CHL	C1B-C2B	7.54	1.48	1.39
27	7	313	CHL	C3B-C4B	7.54	1.48	1.41
27	4	306	CHL	C1D-C2D	7.54	1.48	1.39
27	3	311	CHL	C1D-C2D	7.54	1.48	1.39
29	7	304	LUT	C10-C9	7.54	1.53	1.35
27	A	840	CHL	C3B-C4B	7.54	1.48	1.41
29	3	305	LUT	C10-C9	7.53	1.53	1.35
27	5	325	CHL	C1D-C2D	7.53	1.48	1.39
27	B	812	CHL	C1B-C2B	7.53	1.48	1.39
27	A	818	CHL	C3B-C4B	7.53	1.48	1.41
27	5	318	CHL	C1D-C2D	7.53	1.48	1.39
27	8	313	CHL	C3B-C4B	7.53	1.48	1.41
27	7	316	CHL	C1B-C2B	7.53	1.48	1.39
27	K	206	CHL	C1D-C2D	7.53	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	6	315	CHL	C1D-C2D	7.53	1.48	1.39
29	a	302	LUT	C10-C9	7.53	1.53	1.35
27	6	316	CHL	C3A-C2A	-7.53	1.48	1.54
27	3	313	CHL	C3B-C4B	7.52	1.48	1.41
27	b	311	CHL	C1D-C2D	7.52	1.48	1.39
27	a	315	CHL	C1B-C2B	7.52	1.48	1.39
27	6	313	CHL	C1D-C2D	7.51	1.48	1.39
27	B	839	CHL	C1B-C2B	7.51	1.48	1.39
27	A	845	CHL	C3B-C4B	7.51	1.48	1.41
27	3	316	CHL	C3A-C2A	-7.51	1.48	1.54
27	8	315	CHL	C1B-C2B	7.51	1.48	1.39
27	a	312	CHL	C1D-C2D	7.50	1.48	1.39
27	5	309	CHL	C1D-C2D	7.50	1.48	1.39
27	B	828	CHL	C1A-CHA	7.50	1.48	1.40
27	A	828	CHL	C1B-C2B	7.50	1.48	1.39
27	5	316	CHL	C1B-C2B	7.50	1.48	1.39
27	B	818	CHL	C1B-C2B	7.50	1.48	1.39
27	3	316	CHL	C1D-C2D	7.50	1.48	1.39
29	8	303	LUT	C34-C33	7.49	1.53	1.35
27	A	837	CHL	MG-ND	-7.49	1.90	2.05
29	5	302	LUT	C34-C33	7.49	1.53	1.35
27	4	310	CHL	C1D-C2D	7.49	1.48	1.39
29	4	301	LUT	C34-C33	7.49	1.53	1.35
27	b	304	CHL	C1D-C2D	7.49	1.48	1.39
27	B	816	CHL	C3B-C4B	7.49	1.48	1.41
27	B	842	CHL	C1D-C2D	7.49	1.48	1.39
29	7	304	LUT	C14-C13	7.48	1.53	1.35
27	L	303	CHL	C1B-C2B	7.48	1.48	1.39
27	B	836	CHL	C1B-C2B	7.48	1.48	1.39
27	4	305	CHL	C1D-C2D	7.48	1.48	1.39
27	A	844	CHL	C1B-C2B	7.48	1.48	1.39
27	a	307	CHL	C1B-C2B	7.48	1.48	1.39
27	B	834	CHL	C1B-C2B	7.47	1.48	1.39
27	3	313	CHL	C1D-C2D	7.47	1.48	1.39
27	6	312	CHL	C3B-C4B	7.47	1.48	1.41
27	B	846	CHL	C1B-C2B	7.47	1.48	1.39
27	A	822	CHL	C1B-C2B	7.46	1.48	1.39
27	b	314	CHL	C1D-C2D	7.46	1.48	1.39
29	F	303	LUT	C34-C33	7.46	1.53	1.35
29	a	304	LUT	C10-C9	7.46	1.53	1.35
27	B	840	CHL	C1D-C2D	7.45	1.48	1.39
29	b	301	LUT	C34-C33	7.45	1.53	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	7	319	CHL	C3A-C2A	-7.45	1.48	1.54
27	4	320	CHL	C1D-C2D	7.45	1.48	1.39
29	F	303	LUT	C14-C13	7.45	1.53	1.35
27	3	314	CHL	C1D-C2D	7.45	1.48	1.39
27	6	320	CHL	C1D-C2D	7.45	1.48	1.39
27	a	320	CHL	C1D-C2D	7.45	1.48	1.39
27	7	315	CHL	C3B-C4B	7.44	1.48	1.41
27	A	819	CHL	C1B-C2B	7.44	1.48	1.39
27	A	849	CHL	C1D-C2D	7.44	1.48	1.39
29	6	302	LUT	C34-C33	7.44	1.53	1.35
29	5	303	LUT	C14-C13	7.44	1.53	1.35
27	5	311	CHL	C1B-C2B	7.44	1.48	1.39
27	7	317	CHL	C3B-C4B	7.44	1.48	1.41
27	A	841	CHL	C1D-C2D	7.44	1.48	1.39
27	B	822	CHL	C1B-C2B	7.44	1.48	1.39
29	6	303	LUT	C34-C33	7.43	1.53	1.35
27	8	324	CHL	C1D-C2D	7.43	1.48	1.39
27	B	815	CHL	MG-ND	-7.42	1.91	2.05
27	A	833	CHL	C1D-C2D	7.42	1.48	1.39
27	5	317	CHL	C1D-C2D	7.42	1.48	1.39
27	A	822	CHL	C1D-C2D	7.42	1.48	1.39
27	A	853	CHL	C1D-C2D	7.41	1.48	1.39
27	3	315	CHL	C1D-C2D	7.41	1.48	1.39
27	8	314	CHL	C1B-C2B	7.40	1.48	1.39
27	B	844	CHL	C1D-C2D	7.40	1.48	1.39
27	5	312	CHL	C1D-C2D	7.40	1.48	1.39
27	A	851	CHL	C1D-C2D	7.40	1.48	1.39
27	A	850	CHL	C1B-C2B	7.39	1.48	1.39
27	b	307	CHL	C1D-C2D	7.39	1.48	1.39
27	F	308	CHL	C3B-C4B	7.39	1.48	1.41
27	6	314	CHL	C1D-C2D	7.38	1.48	1.39
27	6	309	CHL	C1D-C2D	7.38	1.47	1.39
27	a	315	CHL	MG-ND	7.38	2.20	2.05
27	B	828	CHL	C1D-C2D	7.38	1.47	1.39
27	7	319	CHL	C1D-C2D	7.37	1.47	1.39
27	b	313	CHL	C1D-C2D	7.37	1.47	1.39
27	7	321	CHL	C1D-C2D	7.37	1.47	1.39
27	a	309	CHL	C1D-C2D	7.37	1.47	1.39
27	F	308	CHL	MG-ND	7.37	2.20	2.05
27	a	315	CHL	C3A-C2A	-7.37	1.48	1.54
27	4	304	CHL	C1B-C2B	7.36	1.47	1.39
27	5	314	CHL	C1D-C2D	7.36	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	5	307	CHL	C1B-C2B	7.36	1.47	1.39
29	a	302	LUT	C34-C33	7.36	1.52	1.35
27	A	830	CHL	C1D-C2D	7.36	1.47	1.39
27	A	847	CHL	C1B-C2B	7.36	1.47	1.39
27	3	313	CHL	MG-ND	7.35	2.20	2.05
27	7	316	CHL	C1D-C2D	7.35	1.47	1.39
27	A	855	CHL	C1D-C2D	7.35	1.47	1.39
27	A	847	CHL	C1D-C2D	7.34	1.47	1.39
27	A	855	CHL	MG-NB	7.34	2.20	2.05
27	B	831	CHL	C1D-C2D	7.34	1.47	1.39
27	B	811	CHL	C3B-C4B	7.34	1.48	1.41
27	8	311	CHL	C1D-C2D	7.34	1.47	1.39
27	A	833	CHL	C1B-C2B	7.34	1.47	1.39
27	6	317	CHL	C3A-C2A	-7.34	1.48	1.54
27	B	827	CHL	C1D-C2D	7.34	1.47	1.39
27	A	826	CHL	C1D-C2D	7.34	1.47	1.39
27	7	319	CHL	C1A-CHA	7.33	1.48	1.40
27	4	304	CHL	C1D-C2D	7.33	1.47	1.39
27	a	311	CHL	C1D-C2D	7.33	1.47	1.39
27	8	312	CHL	C1B-C2B	7.33	1.47	1.39
27	8	320	CHL	C1D-C2D	7.33	1.47	1.39
27	4	315	CHL	C1D-C2D	7.33	1.47	1.39
27	3	308	CHL	C1B-C2B	7.32	1.47	1.39
27	7	311	CHL	C1B-C2B	7.32	1.47	1.39
27	3	310	CHL	C1D-C2D	7.32	1.47	1.39
27	8	321	CHL	C1D-C2D	7.32	1.47	1.39
27	B	851	CHL	C1B-C2B	7.32	1.47	1.39
27	6	306	CHL	C1D-C2D	7.31	1.47	1.39
27	B	837	CHL	C1D-C2D	7.31	1.47	1.39
27	B	813	CHL	C1D-C2D	7.31	1.47	1.39
27	a	313	CHL	C1D-C2D	7.31	1.47	1.39
27	B	839	CHL	C1D-C2D	7.31	1.47	1.39
27	5	307	CHL	C1D-C2D	7.31	1.47	1.39
27	A	834	CHL	C1D-C2D	7.30	1.47	1.39
27	3	317	CHL	MG-NB	-7.30	1.91	2.05
27	8	325	CHL	C1D-C2D	7.30	1.47	1.39
27	A	840	CHL	MG-ND	-7.30	1.91	2.05
27	A	838	CHL	C1D-C2D	7.30	1.47	1.39
27	B	827	CHL	C1B-C2B	7.29	1.47	1.39
27	6	305	CHL	C1D-C2D	7.29	1.47	1.39
27	8	316	CHL	C1D-C2D	7.29	1.47	1.39
27	3	316	CHL	C1B-C2B	7.28	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	5	303	LUT	C34-C33	7.28	1.52	1.35
27	B	842	CHL	C3B-C4B	7.27	1.48	1.41
27	3	318	CHL	C1D-C2D	7.27	1.47	1.39
27	A	825	CHL	C1D-C2D	7.27	1.47	1.39
27	A	823	CHL	C1D-C2D	7.27	1.47	1.39
27	7	322	CHL	C1D-C2D	7.27	1.47	1.39
27	B	828	CHL	C1B-C2B	7.27	1.47	1.39
27	7	311	CHL	C1D-C2D	7.26	1.47	1.39
27	8	314	CHL	C1D-C2D	7.26	1.47	1.39
27	B	821	CHL	C1D-C2D	7.26	1.47	1.39
27	A	818	CHL	C1D-C2D	7.25	1.47	1.39
27	5	318	CHL	MG-NB	7.25	2.20	2.05
27	B	845	CHL	C1D-C2D	7.25	1.47	1.39
27	6	311	CHL	C1D-C2D	7.25	1.47	1.39
27	5	323	CHL	C3B-C4B	7.25	1.48	1.41
27	7	320	CHL	C1A-CHA	7.25	1.48	1.40
27	6	307	CHL	CHB-C4A	-7.25	1.29	1.38
27	8	319	CHL	C1D-C2D	7.25	1.47	1.39
27	6	312	CHL	C1D-C2D	7.24	1.47	1.39
27	A	842	CHL	C1B-C2B	7.24	1.47	1.39
27	3	309	CHL	C1D-C2D	7.24	1.47	1.39
29	3	305	LUT	C34-C33	7.24	1.52	1.35
27	6	310	CHL	C1D-C2D	7.24	1.47	1.39
27	a	308	CHL	C1D-C2D	7.24	1.47	1.39
27	B	829	CHL	C1D-C2D	7.23	1.47	1.39
29	8	304	LUT	C34-C33	7.23	1.52	1.35
27	3	321	CHL	C1D-C2D	7.23	1.47	1.39
27	7	324	CHL	C1D-C2D	7.23	1.47	1.39
27	B	833	CHL	C1D-C2D	7.23	1.47	1.39
27	7	320	CHL	C3A-C2A	-7.22	1.48	1.54
27	B	830	CHL	C1D-C2D	7.22	1.47	1.39
27	7	318	CHL	C1D-C2D	7.22	1.47	1.39
29	3	304	LUT	C34-C33	7.22	1.52	1.35
27	A	843	CHL	C1B-C2B	7.22	1.47	1.39
27	A	848	CHL	C1D-C2D	7.22	1.47	1.39
27	B	843	CHL	C1B-C2B	7.21	1.47	1.39
27	A	859	CHL	C1D-C2D	7.21	1.47	1.39
27	6	319	CHL	C3B-C4B	7.21	1.48	1.41
27	B	824	CHL	C1D-C2D	7.21	1.47	1.39
27	A	854	CHL	C1D-C2D	7.21	1.47	1.39
27	3	308	CHL	C1D-C2D	7.21	1.47	1.39
27	B	814	CHL	C1D-C2D	7.21	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	a	317	CHL	C1D-C2D	7.21	1.47	1.39
27	5	311	CHL	C1D-C2D	7.21	1.47	1.39
27	8	317	CHL	C1D-C2D	7.21	1.47	1.39
27	3	308	CHL	MG-NB	7.20	2.20	2.05
27	B	836	CHL	C1D-C2D	7.20	1.47	1.39
27	7	314	CHL	C1D-C2D	7.20	1.47	1.39
27	5	317	CHL	C1B-C2B	7.20	1.47	1.39
27	B	818	CHL	C3B-C4B	7.19	1.48	1.41
27	5	325	CHL	C3A-C2A	-7.19	1.48	1.54
29	7	304	LUT	C34-C33	7.19	1.52	1.35
27	4	307	CHL	C1D-C2D	7.19	1.47	1.39
27	B	843	CHL	C1D-C2D	7.19	1.47	1.39
27	B	849	CHL	C1D-C2D	7.19	1.47	1.39
27	4	314	CHL	MG-NB	-7.18	1.91	2.05
27	K	207	CHL	C3A-C2A	-7.18	1.48	1.54
27	A	845	CHL	C1D-C2D	7.17	1.47	1.39
27	5	321	CHL	C1D-C2D	7.17	1.47	1.39
27	8	322	CHL	C1D-C2D	7.17	1.47	1.39
27	B	838	CHL	C1D-C2D	7.17	1.47	1.39
27	A	839	CHL	C1D-C2D	7.16	1.47	1.39
27	3	320	CHL	C1D-C2D	7.16	1.47	1.39
27	A	836	CHL	C1D-C2D	7.16	1.47	1.39
27	A	829	CHL	C1D-C2D	7.16	1.47	1.39
27	7	320	CHL	C1D-C2D	7.16	1.47	1.39
27	B	816	CHL	C1D-C2D	7.16	1.47	1.39
27	K	206	CHL	C1B-C2B	7.16	1.47	1.39
27	3	317	CHL	C1D-C2D	7.16	1.47	1.39
27	7	321	CHL	C1B-C2B	7.16	1.47	1.39
27	B	848	CHL	C1D-C2D	7.15	1.47	1.39
27	5	313	CHL	CHB-C4A	-7.15	1.30	1.38
27	8	323	CHL	C1A-CHA	7.15	1.48	1.40
27	7	322	CHL	C3A-C2A	-7.15	1.48	1.54
27	A	857	CHL	C1D-C2D	7.15	1.47	1.39
27	a	307	CHL	C1D-C2D	7.14	1.47	1.39
27	A	844	CHL	C1D-C2D	7.14	1.47	1.39
27	B	817	CHL	C3B-C4B	7.14	1.48	1.41
27	J	106	CHL	C1D-C2D	7.14	1.47	1.39
27	7	315	CHL	C1D-C2D	7.14	1.47	1.39
27	B	825	CHL	C1D-C2D	7.14	1.47	1.39
27	3	312	CHL	C1D-C2D	7.13	1.47	1.39
27	7	313	CHL	C1D-C2D	7.13	1.47	1.39
27	b	315	CHL	C1D-C2D	7.13	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	817	CHL	C1B-C2B	7.12	1.47	1.39
27	A	841	CHL	C1B-C2B	7.11	1.47	1.39
27	A	824	CHL	C1D-C2D	7.11	1.47	1.39
27	F	309	CHL	C1D-C2D	7.11	1.47	1.39
27	B	819	CHL	C1D-C2D	7.11	1.47	1.39
27	3	319	CHL	C1D-C2D	7.11	1.47	1.39
27	5	323	CHL	C1D-C2D	7.11	1.47	1.39
27	A	858	CHL	C1D-C2D	7.10	1.47	1.39
27	B	847	CHL	C1D-C2D	7.10	1.47	1.39
27	A	833	CHL	C3A-C2A	-7.10	1.48	1.54
27	B	846	CHL	C1D-C2D	7.10	1.47	1.39
27	8	318	CHL	C1D-C2D	7.10	1.47	1.39
27	8	324	CHL	C3A-C2A	-7.10	1.48	1.54
27	B	823	CHL	C1D-C2D	7.09	1.47	1.39
27	A	828	CHL	C1D-C2D	7.09	1.47	1.39
27	4	316	CHL	C3A-C2A	-7.09	1.48	1.54
27	B	822	CHL	C1D-C2D	7.09	1.47	1.39
27	5	319	CHL	C3A-C2A	-7.08	1.48	1.54
27	5	310	CHL	C1D-C2D	7.08	1.47	1.39
27	A	836	CHL	C1B-C2B	7.08	1.47	1.39
27	A	819	CHL	C1D-C2D	7.07	1.47	1.39
27	B	826	CHL	C1D-C2D	7.07	1.47	1.39
27	6	310	CHL	MG-ND	-7.06	1.91	2.05
27	4	308	CHL	C1D-C2D	7.06	1.47	1.39
27	8	326	CHL	C1D-C2D	7.06	1.47	1.39
27	L	303	CHL	CHB-C4A	-7.05	1.30	1.38
27	A	827	CHL	C1D-C2D	7.05	1.47	1.39
27	A	835	CHL	C1D-C2D	7.05	1.47	1.39
27	A	820	CHL	C1D-C2D	7.05	1.47	1.39
27	8	321	CHL	C3A-C2A	-7.05	1.48	1.54
27	4	309	CHL	C3A-C2A	-7.04	1.48	1.54
27	B	851	CHL	C1D-C2D	7.04	1.47	1.39
27	A	831	CHL	C1B-C2B	7.04	1.47	1.39
27	F	308	CHL	MG-NB	-7.04	1.91	2.05
27	a	310	CHL	C1D-C2D	7.03	1.47	1.39
27	8	315	CHL	C1D-C2D	7.03	1.47	1.39
27	6	318	CHL	C3A-C2A	-7.03	1.48	1.54
27	b	308	CHL	C1D-C2D	7.03	1.47	1.39
27	A	842	CHL	C1D-C2D	7.03	1.47	1.39
27	F	308	CHL	C1D-C2D	7.03	1.47	1.39
27	A	821	CHL	C1D-C2D	7.02	1.47	1.39
27	a	318	CHL	C3A-C2A	-7.01	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	5	308	CHL	C1D-C2D	7.01	1.47	1.39
27	A	833	CHL	C1A-CHA	7.00	1.48	1.40
27	K	206	CHL	MG-ND	7.00	2.19	2.05
27	7	321	CHL	C1A-CHA	7.00	1.48	1.40
27	A	850	CHL	C1D-C2D	7.00	1.47	1.39
27	b	311	CHL	C3A-C2A	-6.99	1.48	1.54
27	A	816	CHL	C1D-C2D	6.98	1.47	1.39
27	A	856	CHL	C1D-C2D	6.96	1.47	1.39
27	4	312	CHL	C3A-C2A	-6.96	1.48	1.54
27	7	317	CHL	C1D-C2D	6.96	1.47	1.39
27	8	314	CHL	C3A-C2A	-6.96	1.48	1.54
27	8	313	CHL	C1D-C2D	6.95	1.47	1.39
27	A	841	CHL	C1A-CHA	6.94	1.47	1.40
27	B	850	CHL	C1D-C2D	6.94	1.47	1.39
27	8	314	CHL	C1A-CHA	6.94	1.47	1.40
27	B	812	CHL	C1D-C2D	6.93	1.47	1.39
27	7	312	CHL	C1D-C2D	6.93	1.47	1.39
27	B	832	CHL	C1D-C2D	6.93	1.47	1.39
27	8	312	CHL	C1D-C2D	6.92	1.47	1.39
27	5	322	CHL	C3A-C2A	-6.92	1.48	1.54
27	B	835	CHL	C1D-C2D	6.91	1.47	1.39
27	a	320	CHL	MG-NB	6.91	2.19	2.05
27	A	852	CHL	C1D-C2D	6.91	1.47	1.39
27	a	318	CHL	C1A-CHA	6.90	1.47	1.40
27	B	841	CHL	C1D-C2D	6.89	1.47	1.39
27	3	316	CHL	C1A-CHA	6.88	1.47	1.40
27	7	322	CHL	MG-ND	6.88	2.19	2.05
27	A	832	CHL	C1D-C2D	6.88	1.47	1.39
27	A	837	CHL	C1D-C2D	6.86	1.47	1.39
27	b	311	CHL	C1A-CHA	6.86	1.47	1.40
27	B	815	CHL	C1D-C2D	6.86	1.47	1.39
27	5	322	CHL	C1A-CHA	6.84	1.47	1.40
27	B	818	CHL	C1D-C2D	6.83	1.47	1.39
27	b	317	CHL	C3A-C2A	-6.83	1.48	1.54
27	A	834	CHL	C1B-C2B	6.83	1.47	1.39
27	7	322	CHL	C1A-CHA	6.81	1.47	1.40
27	8	321	CHL	C1A-CHA	6.81	1.47	1.40
27	7	323	CHL	C1A-CHA	6.81	1.47	1.40
27	6	317	CHL	C1A-CHA	6.81	1.47	1.40
27	B	817	CHL	C1D-C2D	6.81	1.47	1.39
27	7	323	CHL	C3B-C4B	6.79	1.48	1.41
27	8	324	CHL	C1A-CHA	6.78	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	b	313	CHL	MG-NB	6.78	2.19	2.05
27	A	840	CHL	C1D-C2D	6.77	1.47	1.39
27	B	811	CHL	C1D-C2D	6.77	1.47	1.39
27	4	318	CHL	MG-ND	6.77	2.19	2.05
27	A	842	CHL	C1A-CHA	6.76	1.47	1.40
27	B	843	CHL	MG-NB	-6.76	1.92	2.05
27	K	204	CHL	C1D-C2D	6.76	1.47	1.39
27	A	817	CHL	C1D-C2D	6.75	1.47	1.39
27	8	323	CHL	C1B-C2B	6.75	1.47	1.39
27	4	320	CHL	MG-ND	-6.75	1.92	2.05
27	5	312	CHL	MG-NB	-6.74	1.92	2.05
27	K	207	CHL	C1A-CHA	6.73	1.47	1.40
27	4	309	CHL	C1A-CHA	6.73	1.47	1.40
27	b	317	CHL	C1A-CHA	6.71	1.47	1.40
27	A	841	CHL	C3B-C4B	6.71	1.47	1.41
27	B	834	CHL	C1D-C2D	6.71	1.47	1.39
27	b	316	CHL	C3A-C2A	-6.70	1.48	1.54
27	a	316	CHL	C1A-CHA	6.70	1.47	1.40
27	a	316	CHL	C3A-C2A	-6.69	1.48	1.54
27	6	316	CHL	C1A-CHA	6.68	1.47	1.40
27	L	303	CHL	C3B-C4B	6.67	1.47	1.41
27	b	316	CHL	C1A-CHA	6.65	1.47	1.40
27	8	316	CHL	MG-NB	6.63	2.18	2.05
27	A	846	CHL	C3A-C2A	-6.63	1.49	1.54
27	4	316	CHL	C1A-CHA	6.63	1.47	1.40
27	6	318	CHL	C1A-CHA	6.63	1.47	1.40
27	A	843	CHL	CHB-C4A	-6.60	1.30	1.38
27	6	307	CHL	C3A-C2A	-6.58	1.49	1.54
27	5	317	CHL	C1A-CHA	6.56	1.47	1.40
27	5	325	CHL	C1A-CHA	6.56	1.47	1.40
27	4	312	CHL	C1A-CHA	6.53	1.47	1.40
27	L	303	CHL	C3A-C2A	-6.53	1.49	1.54
27	6	312	CHL	MG-NB	-6.48	1.92	2.05
27	5	319	CHL	C1A-CHA	6.47	1.47	1.40
27	5	316	CHL	C1A-CHA	6.44	1.47	1.40
27	3	318	CHL	MG-NB	-6.42	1.93	2.05
27	B	819	CHL	MG-NB	6.42	2.18	2.05
27	4	317	CHL	C3B-C4B	6.40	1.47	1.41
27	F	309	CHL	MG-NB	-6.40	1.93	2.05
27	a	315	CHL	C1A-CHA	6.39	1.47	1.40
27	7	321	CHL	MG-ND	-6.38	1.93	2.05
27	A	820	CHL	MG-NB	6.38	2.18	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	5	317	CHL	C3B-C4B	6.38	1.47	1.41
27	6	316	CHL	C3B-C4B	6.35	1.47	1.41
27	4	319	CHL	MG-ND	-6.34	1.93	2.05
27	4	313	CHL	C1A-CHA	6.32	1.47	1.40
27	a	318	CHL	C3B-C4B	6.32	1.47	1.41
27	a	316	CHL	C3B-C4B	6.30	1.47	1.41
27	7	320	CHL	C3B-C4B	6.30	1.47	1.41
27	b	317	CHL	C3B-C4B	6.29	1.47	1.41
27	4	313	CHL	C3B-C4B	6.29	1.47	1.41
27	7	321	CHL	C3B-C4B	6.28	1.47	1.41
27	K	207	CHL	C3B-C4B	6.28	1.47	1.41
27	A	833	CHL	C3B-C4B	6.27	1.47	1.41
27	6	318	CHL	C3B-C4B	6.26	1.47	1.41
27	5	320	CHL	MG-NB	-6.26	1.93	2.05
27	A	831	CHL	C3A-C2A	-6.26	1.49	1.54
27	A	831	CHL	CHB-C4A	-6.25	1.31	1.38
27	A	846	CHL	CHB-C4A	-6.24	1.31	1.38
27	b	311	CHL	C3B-C4B	6.24	1.47	1.41
27	3	316	CHL	C3B-C4B	6.22	1.47	1.41
27	7	323	CHL	C1D-C2D	6.20	1.46	1.39
27	5	313	CHL	C3A-C2A	-6.20	1.49	1.54
27	4	309	CHL	C3B-C4B	6.20	1.47	1.41
27	3	309	CHL	MG-NB	-6.19	1.93	2.05
27	A	842	CHL	C3B-C4B	6.19	1.47	1.41
27	6	311	CHL	MG-NB	6.18	2.18	2.05
27	5	325	CHL	C3B-C4B	6.18	1.47	1.41
27	6	308	CHL	C1A-CHA	6.17	1.47	1.40
27	B	849	CHL	MG-ND	-6.17	1.93	2.05
27	b	316	CHL	C3B-C4B	6.16	1.47	1.41
27	8	318	CHL	MG-NB	6.16	2.18	2.05
27	6	317	CHL	C3B-C4B	6.15	1.47	1.41
27	8	324	CHL	C3B-C4B	6.13	1.47	1.41
27	a	315	CHL	C3B-C4B	6.11	1.47	1.41
27	7	319	CHL	C3B-C4B	6.11	1.47	1.41
27	4	317	CHL	C1A-CHA	6.11	1.46	1.40
27	4	316	CHL	C3B-C4B	6.11	1.47	1.41
27	8	321	CHL	C3B-C4B	6.10	1.47	1.41
27	A	827	CHL	MG-ND	-6.10	1.93	2.05
27	3	309	CHL	MG-ND	6.09	2.17	2.05
27	8	313	CHL	MG-ND	-6.09	1.93	2.05
27	5	322	CHL	C3B-C4B	6.09	1.47	1.41
27	4	312	CHL	C3B-C4B	6.09	1.47	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	6	315	CHL	MG-NB	-6.08	1.93	2.05
27	5	319	CHL	C3B-C4B	6.07	1.47	1.41
27	K	205	CHL	MG-ND	-6.07	1.93	2.05
27	5	316	CHL	C3B-C4B	6.07	1.47	1.41
27	A	821	CHL	MG-ND	-6.03	1.93	2.05
27	8	314	CHL	C3B-C4B	6.03	1.47	1.41
27	6	308	CHL	C3A-C2A	-6.01	1.49	1.54
27	6	308	CHL	C3B-C4B	6.01	1.47	1.41
26	A	815	CL0	CHB-C4A	-6.00	1.31	1.38
27	8	323	CHL	CHB-C1B	5.99	1.49	1.39
27	8	311	CHL	MG-NB	-5.98	1.93	2.05
27	7	322	CHL	C3B-C4B	5.97	1.47	1.41
27	6	307	CHL	C3B-C4B	5.95	1.47	1.41
27	8	324	CHL	MG-ND	5.95	2.17	2.05
27	A	858	CHL	MG-NB	-5.93	1.94	2.05
27	4	310	CHL	MG-NB	5.92	2.17	2.05
27	4	308	CHL	MG-ND	5.92	2.17	2.05
27	5	313	CHL	C3B-C4B	5.90	1.47	1.41
27	8	313	CHL	MG-NB	5.90	2.17	2.05
27	8	323	CHL	CHD-C4C	5.88	1.50	1.39
27	B	814	CHL	C3B-C2B	5.87	1.48	1.40
27	B	848	CHL	MG-ND	5.86	2.17	2.05
27	6	319	CHL	C1A-CHA	5.86	1.46	1.40
27	A	841	CHL	MG-ND	5.86	2.17	2.05
27	5	316	CHL	C3D-C4D	-5.86	1.32	1.41
27	4	319	CHL	MG-NB	5.85	2.17	2.05
27	6	319	CHL	CHD-C4C	5.84	1.50	1.39
27	4	311	CHL	MG-ND	5.84	2.17	2.05
27	7	311	CHL	MG-ND	-5.83	1.94	2.05
27	6	308	CHL	C3D-C4D	-5.83	1.32	1.41
27	4	319	CHL	C3B-C2B	5.83	1.48	1.40
27	4	313	CHL	CHC-C4B	5.83	1.49	1.39
27	5	309	CHL	CHB-C1B	5.81	1.49	1.39
27	4	311	CHL	MG-NB	-5.81	1.94	2.05
27	3	319	CHL	CHB-C1B	5.80	1.49	1.39
27	B	851	CHL	CHC-C4B	5.79	1.49	1.39
27	A	825	CHL	MG-ND	-5.78	1.94	2.05
27	b	313	CHL	CHB-C1B	5.77	1.49	1.39
27	A	832	CHL	CHB-C1B	5.77	1.49	1.39
27	B	845	CHL	C3B-C2B	5.77	1.48	1.40
27	A	832	CHL	C3B-C2B	5.76	1.48	1.40
27	L	304	CHL	C3B-C2B	5.76	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	318	CHL	CHB-C1B	5.75	1.48	1.39
27	b	312	CHL	CHB-C1B	5.75	1.48	1.39
27	B	850	CHL	C3B-C2B	5.75	1.48	1.40
27	A	859	CHL	MG-NB	5.75	2.17	2.05
27	A	831	CHL	C3B-C4B	5.74	1.47	1.41
27	8	326	CHL	C3B-C2B	5.73	1.48	1.40
27	A	857	CHL	C3B-C2B	5.73	1.48	1.40
27	A	853	CHL	CHB-C1B	5.72	1.48	1.39
27	A	830	CHL	C3B-C2B	5.71	1.48	1.40
27	A	827	CHL	C3B-C2B	5.71	1.48	1.40
27	A	844	CHL	MG-NB	5.71	2.17	2.05
27	6	310	CHL	CHB-C1B	5.71	1.48	1.39
27	6	311	CHL	CHB-C1B	5.70	1.48	1.39
27	A	840	CHL	C3B-C2B	5.70	1.48	1.40
27	B	830	CHL	CHB-C1B	5.69	1.48	1.39
27	8	313	CHL	CHB-C1B	5.69	1.48	1.39
27	5	307	CHL	C3B-C2B	5.68	1.48	1.40
27	A	833	CHL	MG-ND	5.68	2.17	2.05
27	b	315	CHL	CHC-C4B	5.68	1.48	1.39
27	b	306	CHL	C3B-C2B	5.68	1.48	1.40
27	7	313	CHL	CHB-C1B	5.68	1.48	1.39
27	K	204	CHL	CHB-C1B	5.68	1.48	1.39
27	6	311	CHL	CHC-C4B	5.68	1.48	1.39
27	5	314	CHL	CHB-C1B	5.68	1.48	1.39
27	A	819	CHL	CHC-C4B	5.68	1.48	1.39
27	b	305	CHL	CHD-C1D	5.68	1.48	1.39
27	A	842	CHL	MG-ND	5.67	2.17	2.05
27	B	843	CHL	C3B-C2B	5.67	1.48	1.40
27	A	816	CHL	C3B-C2B	5.67	1.48	1.40
27	8	319	CHL	C3B-C2B	5.67	1.48	1.40
27	5	315	CHL	CHB-C1B	5.67	1.48	1.39
27	8	317	CHL	CHB-C1B	5.67	1.48	1.39
27	A	852	CHL	C3B-C2B	5.67	1.48	1.40
27	3	320	CHL	C3B-C2B	5.66	1.48	1.40
27	B	839	CHL	C3B-C2B	5.66	1.48	1.40
27	B	811	CHL	CHB-C1B	5.66	1.48	1.39
27	5	310	CHL	CHB-C1B	5.65	1.48	1.39
27	7	318	CHL	CHB-C1B	5.65	1.48	1.39
27	L	304	CHL	CHB-C1B	5.65	1.48	1.39
27	5	320	CHL	CHC-C4B	5.65	1.48	1.39
27	7	312	CHL	CHB-C1B	5.65	1.48	1.39
27	6	313	CHL	CHB-C1B	5.65	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	826	CHL	CHB-C1B	5.64	1.48	1.39
27	F	308	CHL	CHB-C1B	5.64	1.48	1.39
27	F	309	CHL	CHB-C1B	5.64	1.48	1.39
27	B	821	CHL	C3B-C2B	5.64	1.48	1.40
27	6	309	CHL	CHB-C1B	5.64	1.48	1.39
27	5	320	CHL	CHB-C1B	5.64	1.48	1.39
27	A	843	CHL	C3B-C4B	5.64	1.46	1.41
27	4	311	CHL	CHB-C1B	5.64	1.48	1.39
27	B	825	CHL	CHB-C1B	5.63	1.48	1.39
27	B	840	CHL	C3B-C2B	5.63	1.48	1.40
27	6	315	CHL	CHB-C1B	5.63	1.48	1.39
27	5	320	CHL	C3B-C2B	5.63	1.48	1.40
27	A	818	CHL	C3B-C2B	5.62	1.48	1.40
27	A	838	CHL	C3B-C2B	5.62	1.48	1.40
27	5	308	CHL	CHB-C1B	5.62	1.48	1.39
27	a	307	CHL	C3B-C2B	5.62	1.48	1.40
27	3	320	CHL	CHC-C4B	5.62	1.48	1.39
27	B	815	CHL	MG-NB	5.62	2.16	2.05
27	B	833	CHL	MG-ND	5.62	2.16	2.05
27	B	812	CHL	C3B-C2B	5.62	1.48	1.40
27	4	315	CHL	CHB-C1B	5.62	1.48	1.39
27	6	316	CHL	MG-NB	-5.61	1.94	2.05
27	b	308	CHL	CHD-C4C	5.61	1.50	1.39
27	4	320	CHL	CHB-C1B	5.61	1.48	1.39
27	4	319	CHL	CHD-C1D	5.61	1.48	1.39
27	B	829	CHL	CHB-C1B	5.60	1.48	1.39
27	6	314	CHL	CHB-C1B	5.60	1.48	1.39
27	4	315	CHL	CHC-C4B	5.60	1.48	1.39
27	b	309	CHL	CHB-C1B	5.60	1.48	1.39
27	4	306	CHL	CHB-C1B	5.60	1.48	1.39
27	A	854	CHL	C3B-C2B	5.60	1.47	1.40
27	5	316	CHL	C3A-C2A	-5.59	1.49	1.54
27	B	813	CHL	CHC-C4B	5.59	1.48	1.39
27	L	304	CHL	CHC-C4B	5.59	1.48	1.39
27	5	323	CHL	CHB-C1B	5.59	1.48	1.39
27	b	307	CHL	CHB-C1B	5.59	1.48	1.39
27	b	314	CHL	MG-ND	-5.59	1.94	2.05
27	6	314	CHL	CHC-C4B	5.59	1.48	1.39
27	b	305	CHL	CHB-C1B	5.59	1.48	1.39
27	B	848	CHL	CHB-C1B	5.59	1.48	1.39
27	B	824	CHL	C3B-C2B	5.59	1.47	1.40
27	4	318	CHL	CHB-C1B	5.58	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	844	CHL	C3B-C2B	5.58	1.47	1.40
27	a	317	CHL	CHB-C1B	5.58	1.48	1.39
27	A	840	CHL	CHB-C1B	5.58	1.48	1.39
27	B	844	CHL	C3B-C2B	5.58	1.47	1.40
27	A	847	CHL	C3B-C2B	5.58	1.47	1.40
27	A	845	CHL	CHB-C1B	5.58	1.48	1.39
27	b	310	CHL	CHD-C1D	5.58	1.48	1.39
27	3	321	CHL	CHB-C1B	5.58	1.48	1.39
27	A	857	CHL	CHB-C1B	5.57	1.48	1.39
27	b	306	CHL	CHC-C4B	5.57	1.48	1.39
27	A	824	CHL	C3B-C2B	5.57	1.47	1.40
27	5	311	CHL	C3B-C2B	5.57	1.47	1.40
27	6	315	CHL	CHC-C4B	5.57	1.48	1.39
27	A	820	CHL	C3B-C2B	5.57	1.47	1.40
27	A	837	CHL	C3B-C2B	5.57	1.47	1.40
27	A	827	CHL	MG-NB	5.57	2.16	2.05
27	8	320	CHL	CHB-C1B	5.57	1.48	1.39
27	B	826	CHL	MG-ND	-5.57	1.94	2.05
27	B	818	CHL	CHB-C1B	5.57	1.48	1.39
27	8	325	CHL	CHB-C1B	5.57	1.48	1.39
26	A	815	CL0	C3D-C4D	-5.57	1.33	1.41
27	b	310	CHL	CHB-C1B	5.57	1.48	1.39
27	a	309	CHL	CHB-C1B	5.56	1.48	1.39
27	b	314	CHL	CHB-C1B	5.56	1.48	1.39
27	A	841	CHL	MG-NB	-5.56	1.94	2.05
27	B	837	CHL	C3B-C2B	5.56	1.47	1.40
27	A	852	CHL	CHB-C1B	5.56	1.48	1.39
27	B	835	CHL	C3B-C2B	5.56	1.47	1.40
27	4	318	CHL	C3B-C2B	5.56	1.47	1.40
27	B	821	CHL	CHB-C1B	5.56	1.48	1.39
27	B	837	CHL	CHB-C1B	5.56	1.48	1.39
27	5	310	CHL	CHC-C4B	5.56	1.48	1.39
27	7	315	CHL	CHB-C1B	5.56	1.48	1.39
27	b	310	CHL	C3B-C2B	5.56	1.47	1.40
27	3	310	CHL	CHB-C1B	5.56	1.48	1.39
27	A	826	CHL	C3B-C2B	5.56	1.47	1.40
27	B	825	CHL	CHC-C4B	5.56	1.48	1.39
27	B	835	CHL	CHB-C1B	5.56	1.48	1.39
27	b	313	CHL	CHC-C4B	5.55	1.48	1.39
27	7	324	CHL	CHB-C1B	5.55	1.48	1.39
27	a	312	CHL	CHB-C1B	5.55	1.48	1.39
27	8	323	CHL	C3B-C4B	5.55	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	824	CHL	CHB-C1B	5.55	1.48	1.39
27	A	821	CHL	CHB-C1B	5.55	1.48	1.39
27	B	849	CHL	CHB-C1B	5.55	1.48	1.39
27	b	306	CHL	CHB-C1B	5.55	1.48	1.39
27	B	846	CHL	CHB-C1B	5.55	1.48	1.39
27	B	823	CHL	CHB-C1B	5.55	1.48	1.39
27	A	837	CHL	CHB-C1B	5.55	1.48	1.39
27	b	309	CHL	C3B-C2B	5.55	1.47	1.40
27	A	858	CHL	MG-ND	5.55	2.16	2.05
27	5	321	CHL	CHB-C1B	5.55	1.48	1.39
27	8	311	CHL	CHB-C1B	5.55	1.48	1.39
27	B	825	CHL	C3B-C2B	5.54	1.47	1.40
27	6	305	CHL	CHB-C1B	5.54	1.48	1.39
27	3	318	CHL	C3B-C2B	5.54	1.47	1.40
27	A	858	CHL	CHB-C1B	5.54	1.48	1.39
27	7	316	CHL	C2C-C3C	5.54	1.48	1.37
27	4	310	CHL	CHC-C4B	5.54	1.48	1.39
27	b	312	CHL	C3B-C2B	5.54	1.47	1.40
27	a	313	CHL	CHC-C4B	5.54	1.48	1.39
27	4	314	CHL	CHC-C4B	5.54	1.48	1.39
27	3	308	CHL	C3B-C2B	5.54	1.47	1.40
27	6	311	CHL	C3B-C2B	5.54	1.47	1.40
27	b	314	CHL	C3B-C2B	5.54	1.47	1.40
27	A	827	CHL	CHB-C1B	5.54	1.48	1.39
27	K	206	CHL	CHB-C1B	5.54	1.48	1.39
27	A	846	CHL	C3D-C4D	-5.54	1.33	1.41
27	A	851	CHL	CHB-C1B	5.54	1.48	1.39
27	a	320	CHL	CHB-C1B	5.54	1.48	1.39
27	b	315	CHL	CHB-C1B	5.54	1.48	1.39
27	4	306	CHL	CHC-C4B	5.54	1.48	1.39
27	b	313	CHL	C3B-C2B	5.54	1.47	1.40
27	7	314	CHL	C3B-C2B	5.53	1.47	1.40
27	3	313	CHL	CHB-C1B	5.53	1.48	1.39
27	a	311	CHL	C3B-C2B	5.53	1.47	1.40
27	b	304	CHL	CHC-C4B	5.53	1.48	1.39
27	a	307	CHL	CHC-C4B	5.53	1.48	1.39
27	6	312	CHL	CHB-C1B	5.53	1.48	1.39
27	4	319	CHL	CHC-C4B	5.53	1.48	1.39
27	F	309	CHL	CHC-C4B	5.53	1.48	1.39
27	8	315	CHL	CHC-C4B	5.53	1.48	1.39
27	6	320	CHL	CHB-C1B	5.53	1.48	1.39
27	J	106	CHL	CHB-C1B	5.53	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	4	305	CHL	CHB-C1B	5.52	1.48	1.39
27	L	304	CHL	CHD-C1D	5.52	1.48	1.39
27	a	307	CHL	MG-ND	5.52	2.16	2.05
27	4	307	CHL	CHC-C4B	5.52	1.48	1.39
27	4	310	CHL	CHB-C1B	5.52	1.48	1.39
27	A	816	CHL	CHC-C4B	5.52	1.48	1.39
27	A	827	CHL	CHC-C4B	5.52	1.48	1.39
27	B	833	CHL	C3B-C2B	5.52	1.47	1.40
27	b	312	CHL	CHC-C4B	5.52	1.48	1.39
27	B	850	CHL	CHC-C4B	5.52	1.48	1.39
27	B	847	CHL	CHB-C1B	5.52	1.48	1.39
27	3	319	CHL	CHC-C4B	5.52	1.48	1.39
27	K	205	CHL	MG-NB	5.51	2.16	2.05
27	7	317	CHL	CHB-C1B	5.51	1.48	1.39
27	7	313	CHL	MG-NB	-5.51	1.94	2.05
27	A	832	CHL	CHC-C4B	5.51	1.48	1.39
27	A	843	CHL	C3A-C2A	-5.51	1.49	1.54
27	B	816	CHL	CHB-C1B	5.51	1.48	1.39
27	5	321	CHL	CHC-C4B	5.51	1.48	1.39
27	A	831	CHL	C3D-C4D	-5.51	1.33	1.41
27	A	818	CHL	CHB-C1B	5.51	1.48	1.39
27	8	312	CHL	C3B-C2B	5.51	1.47	1.40
27	4	318	CHL	CHC-C4B	5.50	1.48	1.39
27	K	205	CHL	CHB-C1B	5.50	1.48	1.39
27	a	311	CHL	CHB-C1B	5.50	1.48	1.39
27	A	816	CHL	CHB-C1B	5.50	1.48	1.39
27	7	312	CHL	CHC-C4B	5.50	1.48	1.39
27	A	829	CHL	CHB-C1B	5.50	1.48	1.39
27	A	843	CHL	C3D-C4D	-5.50	1.33	1.41
27	B	826	CHL	CHC-C4B	5.50	1.48	1.39
27	3	309	CHL	CHB-C1B	5.50	1.48	1.39
27	A	824	CHL	CHB-C1B	5.50	1.48	1.39
27	3	312	CHL	C3B-C2B	5.50	1.47	1.40
27	6	313	CHL	CHD-C1D	5.50	1.48	1.39
27	8	318	CHL	CHB-C1B	5.50	1.48	1.39
27	B	836	CHL	C3B-C2B	5.49	1.47	1.40
27	4	304	CHL	C3B-C2B	5.49	1.47	1.40
27	4	318	CHL	CHD-C1D	5.49	1.48	1.39
27	5	307	CHL	CHC-C4B	5.49	1.48	1.39
27	b	304	CHL	CHB-C1B	5.49	1.48	1.39
27	a	310	CHL	CHB-C1B	5.49	1.48	1.39
27	5	310	CHL	C3B-C2B	5.49	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	840	CHL	CHB-C1B	5.49	1.48	1.39
27	b	307	CHL	CHC-C4B	5.49	1.48	1.39
27	b	309	CHL	CHD-C1D	5.49	1.48	1.39
27	B	845	CHL	CHB-C1B	5.48	1.48	1.39
27	a	310	CHL	CHC-C4B	5.48	1.48	1.39
27	b	314	CHL	CHC-C4B	5.48	1.48	1.39
27	3	314	CHL	C3B-C2B	5.48	1.47	1.40
27	b	315	CHL	C3B-C2B	5.48	1.47	1.40
27	3	321	CHL	CHC-C4B	5.48	1.48	1.39
27	4	319	CHL	CHB-C1B	5.48	1.48	1.39
27	b	309	CHL	CHC-C4B	5.48	1.48	1.39
27	a	313	CHL	C3B-C2B	5.48	1.47	1.40
27	A	826	CHL	CHC-C4B	5.48	1.48	1.39
27	6	306	CHL	CHB-C1B	5.47	1.48	1.39
27	B	834	CHL	C3B-C2B	5.47	1.47	1.40
27	6	305	CHL	C3B-C2B	5.47	1.47	1.40
27	A	835	CHL	CHB-C1B	5.47	1.48	1.39
27	6	306	CHL	CHC-C4B	5.47	1.48	1.39
27	6	310	CHL	CHC-C4B	5.47	1.48	1.39
27	a	317	CHL	C3B-C2B	5.47	1.47	1.40
27	4	315	CHL	C3B-C2B	5.47	1.47	1.40
27	5	312	CHL	CHB-C1B	5.47	1.48	1.39
26	A	815	CL0	C3A-C2A	-5.47	1.50	1.54
27	7	315	CHL	C3B-C2B	5.47	1.47	1.40
27	8	316	CHL	C3B-C2B	5.47	1.47	1.40
27	4	320	CHL	CHC-C4B	5.47	1.48	1.39
27	5	314	CHL	CHC-C4B	5.47	1.48	1.39
27	A	817	CHL	C3B-C2B	5.47	1.47	1.40
27	3	321	CHL	C3B-C2B	5.47	1.47	1.40
27	a	312	CHL	CHD-C1D	5.47	1.48	1.39
27	3	314	CHL	CHC-C4B	5.47	1.48	1.39
27	B	834	CHL	CHC-C4B	5.47	1.48	1.39
27	3	314	CHL	CHB-C1B	5.46	1.48	1.39
27	a	313	CHL	CHB-C1B	5.46	1.48	1.39
27	B	814	CHL	CHC-C4B	5.46	1.48	1.39
27	7	314	CHL	CHB-C1B	5.46	1.48	1.39
27	7	324	CHL	CHC-C4B	5.46	1.48	1.39
27	8	326	CHL	CHB-C1B	5.46	1.48	1.39
27	7	316	CHL	CHB-C1B	5.46	1.48	1.39
27	4	310	CHL	C3B-C2B	5.46	1.47	1.40
27	B	820	CHL	MG-ND	5.46	2.16	2.05
27	5	315	CHL	CHC-C4B	5.46	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	856	CHL	CHB-C1B	5.46	1.48	1.39
27	A	819	CHL	C3B-C2B	5.45	1.47	1.40
27	A	847	CHL	CHB-C1B	5.45	1.48	1.39
27	B	835	CHL	CHC-C4B	5.45	1.48	1.39
27	a	319	CHL	CHB-C1B	5.45	1.48	1.39
27	8	317	CHL	CHC-C4B	5.45	1.48	1.39
27	6	314	CHL	C3B-C2B	5.45	1.47	1.40
27	B	819	CHL	CHB-C1B	5.45	1.48	1.39
27	B	820	CHL	CHB-C1B	5.45	1.48	1.39
27	B	844	CHL	CHC-C4B	5.45	1.48	1.39
27	b	310	CHL	CHC-C4B	5.45	1.48	1.39
27	B	831	CHL	CHB-C1B	5.45	1.48	1.39
27	B	840	CHL	CHC-C4B	5.45	1.48	1.39
27	a	317	CHL	CHC-C4B	5.45	1.48	1.39
27	B	831	CHL	C3B-C2B	5.45	1.47	1.40
27	3	319	CHL	CHD-C1D	5.44	1.48	1.39
27	8	323	CHL	C3D-C2D	5.44	1.48	1.39
27	B	849	CHL	C3B-C2B	5.44	1.47	1.40
27	B	849	CHL	CHC-C4B	5.44	1.48	1.39
27	B	819	CHL	C3B-C2B	5.44	1.47	1.40
27	3	319	CHL	C3B-C2B	5.44	1.47	1.40
27	A	838	CHL	CHB-C1B	5.44	1.48	1.39
27	5	318	CHL	CHB-C1B	5.44	1.48	1.39
27	8	315	CHL	CHB-C1B	5.44	1.48	1.39
27	6	315	CHL	C3B-C2B	5.44	1.47	1.40
27	B	829	CHL	C3B-C2B	5.43	1.47	1.40
27	B	843	CHL	CHB-C1B	5.43	1.48	1.39
27	8	315	CHL	C3B-C2B	5.43	1.47	1.40
27	K	205	CHL	C3B-C2B	5.43	1.47	1.40
27	3	318	CHL	CHC-C4B	5.43	1.48	1.39
27	a	309	CHL	CHD-C1D	5.43	1.48	1.39
27	b	314	CHL	CHD-C1D	5.43	1.48	1.39
27	4	311	CHL	CHC-C4B	5.43	1.48	1.39
27	4	314	CHL	CHB-C1B	5.43	1.48	1.39
27	K	204	CHL	CHC-C4B	5.43	1.48	1.39
27	B	813	CHL	CHB-C1B	5.43	1.48	1.39
27	B	831	CHL	CHC-C4B	5.42	1.48	1.39
27	A	822	CHL	C3B-C2B	5.42	1.47	1.40
27	B	826	CHL	C3B-C2B	5.42	1.47	1.40
27	4	306	CHL	CHD-C1D	5.42	1.48	1.39
27	7	313	CHL	CHC-C4B	5.42	1.48	1.39
27	A	859	CHL	CHB-C1B	5.42	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	847	CHL	CHC-C4B	5.42	1.48	1.39
27	B	816	CHL	C3B-C2B	5.42	1.47	1.40
27	6	313	CHL	CHC-C4B	5.42	1.48	1.39
27	4	304	CHL	CHC-C4B	5.41	1.48	1.39
27	A	819	CHL	CHB-C1B	5.41	1.48	1.39
27	b	304	CHL	C3B-C2B	5.41	1.47	1.40
27	4	311	CHL	CHD-C1D	5.41	1.48	1.39
27	8	312	CHL	CHC-C4B	5.41	1.48	1.39
27	A	858	CHL	CHC-C4B	5.41	1.48	1.39
27	B	817	CHL	CHB-C1B	5.41	1.48	1.39
27	B	823	CHL	C3B-C2B	5.41	1.47	1.40
27	7	316	CHL	MG-NB	-5.41	1.95	2.05
27	K	205	CHL	CHD-C1D	5.41	1.48	1.39
27	a	319	CHL	C3B-C2B	5.41	1.47	1.40
27	A	837	CHL	CHC-C4B	5.41	1.48	1.39
27	b	312	CHL	CHD-C1D	5.41	1.48	1.39
27	K	206	CHL	CHD-C1D	5.41	1.48	1.39
27	4	307	CHL	C3B-C2B	5.41	1.47	1.40
27	3	320	CHL	CHB-C1B	5.40	1.48	1.39
27	A	828	CHL	C3B-C2B	5.40	1.47	1.40
27	B	832	CHL	C3B-C2B	5.40	1.47	1.40
27	b	305	CHL	CHC-C4B	5.40	1.48	1.39
27	a	319	CHL	CHD-C1D	5.40	1.48	1.39
27	7	311	CHL	CHB-C1B	5.40	1.48	1.39
27	B	828	CHL	CHB-C1B	5.40	1.48	1.39
27	8	312	CHL	CHB-C1B	5.40	1.48	1.39
27	6	315	CHL	CHD-C1D	5.40	1.48	1.39
27	B	820	CHL	C3B-C2B	5.40	1.47	1.40
27	b	316	CHL	MG-ND	5.40	2.16	2.05
27	8	311	CHL	CHC-C4B	5.40	1.48	1.39
27	A	839	CHL	CHD-C1D	5.40	1.48	1.39
27	A	855	CHL	CHC-C4B	5.40	1.48	1.39
27	5	308	CHL	CHC-C4B	5.40	1.48	1.39
27	7	317	CHL	C3B-C2B	5.40	1.47	1.40
27	3	310	CHL	C3B-C2B	5.40	1.47	1.40
27	B	843	CHL	CHC-C4B	5.40	1.48	1.39
27	7	324	CHL	C3B-C2B	5.39	1.47	1.40
27	A	822	CHL	CHC-C4B	5.39	1.48	1.39
27	3	309	CHL	CHC-C4B	5.39	1.48	1.39
27	6	308	CHL	CHB-C4A	-5.39	1.32	1.38
27	8	325	CHL	CHC-C4B	5.39	1.48	1.39
27	B	833	CHL	CHB-C1B	5.39	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	a	314	CHL	CHB-C1B	5.39	1.48	1.39
27	4	307	CHL	CHB-C1B	5.39	1.48	1.39
27	3	308	CHL	CHB-C1B	5.39	1.48	1.39
27	a	320	CHL	C3B-C2B	5.39	1.47	1.40
27	B	833	CHL	CHC-C4B	5.39	1.48	1.39
27	B	832	CHL	CHB-C1B	5.39	1.48	1.39
27	B	850	CHL	CHB-C1B	5.39	1.48	1.39
27	a	314	CHL	CHC-C4B	5.39	1.48	1.39
27	5	315	CHL	CHD-C1D	5.39	1.48	1.39
27	7	314	CHL	CHC-C4B	5.39	1.48	1.39
27	8	319	CHL	CHB-C1B	5.39	1.48	1.39
27	8	319	CHL	CHC-C4B	5.39	1.48	1.39
27	5	314	CHL	C3B-C2B	5.39	1.47	1.40
27	8	322	CHL	C3B-C2B	5.38	1.47	1.40
27	7	311	CHL	C3B-C2B	5.38	1.47	1.40
27	B	822	CHL	CHC-C4B	5.38	1.48	1.39
27	B	814	CHL	MG-NB	5.38	2.16	2.05
27	A	847	CHL	CHC-C4B	5.38	1.48	1.39
27	A	826	CHL	CHB-C1B	5.38	1.48	1.39
27	B	841	CHL	CHB-C1B	5.38	1.48	1.39
27	a	320	CHL	CHC-C4B	5.38	1.48	1.39
27	7	312	CHL	C2C-C3C	5.38	1.47	1.37
27	A	850	CHL	CHB-C1B	5.38	1.48	1.39
27	b	308	CHL	C3B-C2B	5.38	1.47	1.40
27	B	829	CHL	CHC-C4B	5.38	1.48	1.39
27	b	310	CHL	C3D-C2D	5.37	1.48	1.39
27	6	320	CHL	CHC-C4B	5.37	1.48	1.39
27	A	856	CHL	C3B-C2B	5.37	1.47	1.40
27	a	308	CHL	C3B-C2B	5.37	1.47	1.40
27	a	308	CHL	CHC-C4B	5.37	1.48	1.39
27	3	313	CHL	CHD-C1D	5.37	1.48	1.39
27	3	314	CHL	CHD-C1D	5.37	1.48	1.39
27	A	825	CHL	CHB-C1B	5.37	1.48	1.39
27	A	853	CHL	CHD-C1D	5.37	1.48	1.39
27	6	305	CHL	CHC-C4B	5.37	1.48	1.39
27	b	313	CHL	CHD-C1D	5.37	1.48	1.39
27	4	320	CHL	CHD-C1D	5.37	1.48	1.39
27	6	320	CHL	C3B-C2B	5.37	1.47	1.40
27	A	830	CHL	CHB-C1B	5.37	1.48	1.39
27	8	318	CHL	CHC-C4B	5.37	1.48	1.39
27	a	307	CHL	CHB-C1B	5.37	1.48	1.39
27	8	320	CHL	CHC-C4B	5.36	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	842	CHL	CHB-C1B	5.36	1.48	1.39
27	5	312	CHL	CHD-C1D	5.36	1.48	1.39
27	6	309	CHL	CHC-C4B	5.36	1.48	1.39
27	5	309	CHL	C3B-C2B	5.36	1.47	1.40
27	8	311	CHL	C3B-C2B	5.36	1.47	1.40
27	a	312	CHL	CHC-C4B	5.36	1.48	1.39
27	8	313	CHL	CHC-C4B	5.36	1.48	1.39
27	8	320	CHL	CHD-C1D	5.36	1.48	1.39
27	3	312	CHL	CHB-C1B	5.36	1.48	1.39
27	B	839	CHL	CHB-C1B	5.36	1.48	1.39
27	5	309	CHL	CHC-C4B	5.36	1.48	1.39
27	a	320	CHL	CHD-C1D	5.36	1.48	1.39
27	3	308	CHL	CHC-C4B	5.36	1.48	1.39
27	6	312	CHL	CHC-C4B	5.36	1.48	1.39
27	A	854	CHL	CHC-C4B	5.36	1.48	1.39
27	5	309	CHL	CHD-C1D	5.36	1.48	1.39
27	a	314	CHL	CHD-C1D	5.36	1.48	1.39
27	a	314	CHL	C3B-C2B	5.35	1.47	1.40
27	B	822	CHL	CHB-C1B	5.35	1.48	1.39
27	4	310	CHL	CHD-C1D	5.35	1.48	1.39
27	F	308	CHL	CHC-C4B	5.35	1.48	1.39
27	3	310	CHL	CHC-C4B	5.35	1.48	1.39
27	4	319	CHL	C3D-C2D	5.35	1.48	1.39
27	5	320	CHL	CHD-C1D	5.35	1.48	1.39
27	A	851	CHL	CHC-C4B	5.35	1.48	1.39
27	5	316	CHL	CHB-C4A	-5.35	1.32	1.38
27	B	851	CHL	CHB-C1B	5.35	1.48	1.39
27	a	308	CHL	CHB-C1B	5.35	1.48	1.39
27	5	312	CHL	CHC-C4B	5.35	1.48	1.39
27	B	837	CHL	CHD-C1D	5.35	1.48	1.39
27	4	306	CHL	C3B-C2B	5.34	1.47	1.40
27	6	312	CHL	C3B-C2B	5.34	1.47	1.40
27	A	848	CHL	CHB-C1B	5.34	1.48	1.39
27	A	821	CHL	CHC-C4B	5.34	1.48	1.39
27	A	840	CHL	CHC-C4B	5.34	1.48	1.39
27	K	205	CHL	CHC-C4B	5.34	1.48	1.39
27	B	841	CHL	C3B-C2B	5.34	1.47	1.40
27	6	309	CHL	C3B-C2B	5.34	1.47	1.40
27	B	814	CHL	CHB-C1B	5.34	1.48	1.39
27	6	313	CHL	C3B-C2B	5.34	1.47	1.40
27	a	311	CHL	CHC-C4B	5.34	1.48	1.39
27	B	830	CHL	CHC-C4B	5.34	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	315	CHL	CHB-C1B	5.34	1.48	1.39
27	A	853	CHL	C3B-C2B	5.33	1.47	1.40
27	4	305	CHL	CHC-C4B	5.33	1.48	1.39
27	B	813	CHL	C3B-C2B	5.33	1.47	1.40
27	7	313	CHL	CHD-C1D	5.33	1.48	1.39
27	a	310	CHL	C3B-C2B	5.33	1.47	1.40
27	A	829	CHL	C3B-C2B	5.33	1.47	1.40
27	3	312	CHL	CHD-C1D	5.33	1.48	1.39
27	A	838	CHL	CHC-C4B	5.33	1.48	1.39
27	B	820	CHL	CHC-C4B	5.33	1.48	1.39
27	7	316	CHL	CHD-C1D	5.33	1.48	1.39
27	5	311	CHL	CHB-C1B	5.32	1.48	1.39
27	4	307	CHL	MG-NB	-5.32	1.95	2.05
27	J	106	CHL	CHC-C4B	5.32	1.48	1.39
27	5	314	CHL	MG-NB	-5.32	1.95	2.05
27	4	308	CHL	CHB-C1B	5.32	1.48	1.39
27	B	838	CHL	CHD-C1D	5.32	1.48	1.39
27	A	859	CHL	C3B-C2B	5.32	1.47	1.40
27	B	839	CHL	CHC-C4B	5.32	1.48	1.39
27	B	819	CHL	CHC-C4B	5.32	1.48	1.39
27	B	844	CHL	CHB-C1B	5.32	1.48	1.39
27	A	835	CHL	CHD-C1D	5.32	1.48	1.39
27	6	316	CHL	MG-ND	5.32	2.16	2.05
27	3	309	CHL	C3B-C2B	5.32	1.47	1.40
27	3	311	CHL	CHB-C1B	5.32	1.48	1.39
27	A	841	CHL	CHB-C4A	-5.32	1.32	1.38
27	3	317	CHL	CHC-C4B	5.31	1.48	1.39
27	A	854	CHL	CHB-C1B	5.31	1.48	1.39
27	A	848	CHL	CHC-C4B	5.31	1.48	1.39
27	A	823	CHL	CHC-C4B	5.31	1.48	1.39
27	B	815	CHL	CHB-C1B	5.31	1.48	1.39
27	B	824	CHL	CHD-C1D	5.31	1.48	1.39
27	6	310	CHL	CHD-C1D	5.31	1.48	1.39
27	7	321	CHL	CHB-C4A	-5.31	1.32	1.38
27	4	317	CHL	CHD-C4C	5.31	1.49	1.39
27	5	315	CHL	C3B-C2B	5.31	1.47	1.40
27	A	822	CHL	CHB-C1B	5.31	1.48	1.39
27	4	304	CHL	CHB-C1B	5.31	1.48	1.39
27	A	851	CHL	C3B-C2B	5.31	1.47	1.40
27	B	838	CHL	CHB-C1B	5.31	1.48	1.39
27	8	311	CHL	CHD-C1D	5.31	1.48	1.39
27	a	317	CHL	CHD-C1D	5.30	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	5	321	CHL	C3B-C2B	5.30	1.47	1.40
27	8	322	CHL	CHB-C1B	5.30	1.48	1.39
27	J	106	CHL	C3B-C2B	5.30	1.47	1.40
27	5	323	CHL	CHD-C1D	5.30	1.48	1.39
27	b	304	CHL	CHD-C1D	5.30	1.48	1.39
27	5	311	CHL	CHC-C4B	5.30	1.48	1.39
27	6	320	CHL	CHD-C1D	5.30	1.48	1.39
27	5	314	CHL	CHD-C1D	5.30	1.48	1.39
27	A	823	CHL	C3B-C2B	5.30	1.47	1.40
27	A	825	CHL	CHC-C4B	5.30	1.48	1.39
27	4	305	CHL	C3B-C2B	5.29	1.47	1.40
27	5	312	CHL	C3B-C2B	5.29	1.47	1.40
27	B	820	CHL	CHD-C1D	5.29	1.48	1.39
27	B	822	CHL	CHD-C1D	5.29	1.48	1.39
27	5	307	CHL	CHB-C1B	5.29	1.48	1.39
27	B	821	CHL	CHC-C4B	5.29	1.48	1.39
27	A	836	CHL	C3B-C2B	5.29	1.47	1.40
27	B	815	CHL	CHC-C4B	5.29	1.48	1.39
27	F	308	CHL	C3B-C2B	5.29	1.47	1.40
27	5	318	CHL	C3B-C2B	5.29	1.47	1.40
27	K	204	CHL	C3B-C2B	5.29	1.47	1.40
27	8	313	CHL	C3B-C2B	5.29	1.47	1.40
27	A	849	CHL	C3B-C2B	5.29	1.47	1.40
27	B	837	CHL	CHC-C4B	5.29	1.48	1.39
27	7	324	CHL	CHD-C1D	5.28	1.48	1.39
27	B	823	CHL	CHC-C4B	5.28	1.48	1.39
27	4	320	CHL	C3B-C2B	5.28	1.47	1.40
27	B	834	CHL	CHB-C1B	5.28	1.48	1.39
27	A	858	CHL	C3B-C2B	5.28	1.47	1.40
27	B	847	CHL	C3B-C2B	5.28	1.47	1.40
27	7	315	CHL	CHC-C4B	5.28	1.48	1.39
27	3	317	CHL	C3B-C2B	5.28	1.47	1.40
27	A	844	CHL	CHD-C1D	5.28	1.48	1.39
27	B	828	CHL	CHD-C1D	5.28	1.48	1.39
27	A	821	CHL	C3B-C2B	5.28	1.47	1.40
27	6	310	CHL	C3B-C2B	5.28	1.47	1.40
27	7	316	CHL	CHC-C4B	5.28	1.48	1.39
27	4	308	CHL	C3B-C2B	5.28	1.47	1.40
27	A	828	CHL	CHB-C1B	5.27	1.48	1.39
27	A	845	CHL	CHD-C1D	5.27	1.48	1.39
27	3	317	CHL	CHB-C1B	5.27	1.48	1.39
27	b	307	CHL	C3B-C2B	5.27	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	8	325	CHL	CHD-C1D	5.27	1.48	1.39
27	B	838	CHL	CHC-C4B	5.27	1.48	1.39
27	7	311	CHL	CHC-C4B	5.27	1.48	1.39
27	3	316	CHL	CHB-C4A	-5.27	1.32	1.38
27	A	842	CHL	CHB-C4A	-5.26	1.32	1.38
27	A	838	CHL	CHD-C1D	5.26	1.48	1.39
27	8	317	CHL	C3B-C2B	5.26	1.47	1.40
27	4	305	CHL	CHD-C1D	5.26	1.48	1.39
27	B	838	CHL	C3B-C2B	5.26	1.47	1.40
27	A	835	CHL	CHC-C4B	5.26	1.48	1.39
27	B	836	CHL	CHD-C1D	5.26	1.48	1.39
27	a	313	CHL	CHD-C1D	5.26	1.48	1.39
27	8	316	CHL	CHB-C1B	5.26	1.48	1.39
27	A	855	CHL	CHB-C1B	5.26	1.48	1.39
27	A	859	CHL	CHC-C4B	5.26	1.48	1.39
27	5	321	CHL	CHD-C1D	5.26	1.48	1.39
27	A	829	CHL	CHD-C1D	5.26	1.48	1.39
27	A	854	CHL	CHD-C1D	5.26	1.48	1.39
27	7	317	CHL	CHC-C4B	5.26	1.48	1.39
27	A	825	CHL	C3B-C2B	5.26	1.47	1.40
27	8	318	CHL	CHD-C1D	5.26	1.48	1.39
27	B	815	CHL	C3B-C2B	5.26	1.47	1.40
27	A	823	CHL	CHB-C1B	5.25	1.48	1.39
27	7	323	CHL	CHB-C1B	5.25	1.48	1.39
27	A	844	CHL	CHC-C4B	5.25	1.48	1.39
27	B	822	CHL	C3B-C2B	5.25	1.47	1.40
27	4	320	CHL	O2D-CGD	5.25	1.46	1.33
27	8	321	CHL	MG-NB	-5.25	1.95	2.05
27	6	307	CHL	C3D-C4D	-5.25	1.33	1.41
27	3	318	CHL	CHD-C1D	5.25	1.48	1.39
27	A	826	CHL	CHD-C1D	5.25	1.48	1.39
27	A	830	CHL	CHC-C4B	5.25	1.48	1.39
27	8	320	CHL	C3B-C2B	5.24	1.47	1.40
27	A	829	CHL	CHC-C4B	5.24	1.48	1.39
27	B	832	CHL	CHC-C4B	5.24	1.48	1.39
27	5	308	CHL	C3B-C2B	5.24	1.47	1.40
27	a	319	CHL	MG-ND	-5.24	1.95	2.05
27	L	304	CHL	O2D-CGD	5.24	1.46	1.33
27	6	311	CHL	CHD-C1D	5.24	1.48	1.39
27	b	307	CHL	CHD-C1D	5.24	1.48	1.39
27	a	309	CHL	CHC-C4B	5.24	1.48	1.39
27	B	845	CHL	CHC-C4B	5.23	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	b	313	CHL	C3D-C2D	5.23	1.48	1.39
27	5	318	CHL	CHC-C4B	5.23	1.48	1.39
27	7	317	CHL	MG-ND	-5.23	1.95	2.05
27	a	308	CHL	CHD-C1D	5.23	1.48	1.39
27	7	312	CHL	C3B-C2B	5.23	1.47	1.40
27	F	309	CHL	C3B-C2B	5.23	1.47	1.40
27	A	822	CHL	CHD-C1D	5.23	1.48	1.39
27	A	836	CHL	CHC-C4B	5.23	1.48	1.39
27	B	828	CHL	CHC-C4B	5.23	1.48	1.39
27	4	315	CHL	CHD-C1D	5.23	1.48	1.39
27	4	313	CHL	CHD-C4C	5.23	1.49	1.39
27	A	849	CHL	CHB-C1B	5.23	1.48	1.39
27	6	309	CHL	CHD-C1D	5.23	1.48	1.39
27	8	316	CHL	CHC-C4B	5.23	1.48	1.39
27	B	821	CHL	CHD-C1D	5.23	1.48	1.39
27	B	848	CHL	CHD-C1D	5.23	1.48	1.39
27	A	859	CHL	CHD-C1D	5.22	1.48	1.39
27	3	309	CHL	CHD-C1D	5.22	1.48	1.39
27	a	312	CHL	C3B-C2B	5.22	1.47	1.40
27	3	311	CHL	C3B-C2B	5.22	1.47	1.40
27	7	316	CHL	C3B-C2B	5.22	1.47	1.40
27	A	851	CHL	CHD-C1D	5.22	1.48	1.39
27	B	849	CHL	CHD-C1D	5.22	1.48	1.39
27	F	309	CHL	CHD-C1D	5.22	1.48	1.39
27	4	314	CHL	C3B-C2B	5.22	1.47	1.40
27	B	811	CHL	CHC-C4B	5.22	1.48	1.39
27	5	318	CHL	CHD-C1D	5.22	1.48	1.39
27	B	842	CHL	C3B-C2B	5.22	1.47	1.40
27	A	825	CHL	CHD-C1D	5.22	1.48	1.39
27	3	311	CHL	CHD-C1D	5.22	1.48	1.39
27	6	314	CHL	CHD-C1D	5.22	1.48	1.39
27	a	311	CHL	CHD-C1D	5.22	1.48	1.39
27	8	318	CHL	C3B-C2B	5.22	1.47	1.40
27	4	311	CHL	C3B-C2B	5.22	1.47	1.40
27	A	857	CHL	CHC-C4B	5.22	1.48	1.39
27	A	828	CHL	MG-NB	-5.22	1.95	2.05
27	B	832	CHL	CHD-C1D	5.21	1.48	1.39
27	K	206	CHL	CHC-C4B	5.21	1.48	1.39
27	B	842	CHL	CHC-C4B	5.21	1.48	1.39
27	3	315	CHL	CHD-C1D	5.21	1.48	1.39
27	A	817	CHL	CHB-C1B	5.21	1.48	1.39
27	A	856	CHL	CHC-C4B	5.21	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	846	CHL	CHC-C4B	5.21	1.48	1.39
27	A	820	CHL	CHC-C4B	5.21	1.48	1.39
27	A	855	CHL	CHD-C1D	5.21	1.48	1.39
27	7	318	CHL	CHC-C4B	5.21	1.48	1.39
27	B	813	CHL	CHD-C1D	5.21	1.48	1.39
27	K	206	CHL	O2D-CGD	5.21	1.46	1.33
27	A	818	CHL	CHD-C1D	5.21	1.48	1.39
27	6	306	CHL	CHD-C1D	5.21	1.48	1.39
27	A	839	CHL	CHB-C1B	5.21	1.48	1.39
27	6	305	CHL	CHD-C1D	5.20	1.48	1.39
27	A	847	CHL	CHD-C1D	5.20	1.48	1.39
27	B	836	CHL	CHB-C1B	5.20	1.48	1.39
27	B	827	CHL	CHB-C1B	5.20	1.48	1.39
27	B	846	CHL	CHD-C1D	5.20	1.48	1.39
27	4	308	CHL	CHC-C4B	5.20	1.48	1.39
27	B	833	CHL	CHD-C1D	5.20	1.48	1.39
27	A	850	CHL	CHD-C1D	5.20	1.48	1.39
27	6	306	CHL	C3B-C2B	5.20	1.47	1.40
27	b	305	CHL	C3D-C2D	5.20	1.48	1.39
27	b	308	CHL	CHB-C1B	5.20	1.48	1.39
27	A	828	CHL	CHD-C1D	5.20	1.48	1.39
27	A	816	CHL	C3D-C2D	5.20	1.48	1.39
27	A	835	CHL	C3B-C2B	5.20	1.47	1.40
27	A	850	CHL	CHC-C4B	5.20	1.48	1.39
27	L	304	CHL	C3D-C2D	5.19	1.48	1.39
27	8	317	CHL	CHD-C1D	5.19	1.48	1.39
27	b	305	CHL	C3B-C2B	5.19	1.47	1.40
27	A	844	CHL	CHB-C1B	5.19	1.48	1.39
27	5	313	CHL	C3D-C4D	-5.19	1.33	1.41
27	A	839	CHL	CHC-C4B	5.19	1.48	1.39
27	A	836	CHL	CHB-C1B	5.19	1.48	1.39
27	B	835	CHL	CHD-C1D	5.19	1.48	1.39
27	B	851	CHL	C3B-C2B	5.18	1.47	1.40
27	6	315	CHL	O2D-CGD	5.18	1.46	1.33
27	B	830	CHL	C3B-C2B	5.18	1.47	1.40
27	B	843	CHL	CHD-C1D	5.18	1.48	1.39
27	A	834	CHL	CHB-C1B	5.18	1.48	1.39
27	a	319	CHL	CHC-C4B	5.18	1.48	1.39
27	4	317	CHL	C3D-C2D	5.18	1.48	1.39
27	A	827	CHL	CHD-C1D	5.18	1.48	1.39
27	4	317	CHL	C3D-C4D	-5.17	1.33	1.41
27	4	310	CHL	C3D-C2D	5.17	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	834	CHL	CHC-C4B	5.17	1.48	1.39
27	A	840	CHL	CHD-C1D	5.17	1.48	1.39
27	B	824	CHL	CHC-C4B	5.17	1.48	1.39
27	7	314	CHL	CHD-C1D	5.17	1.48	1.39
27	a	308	CHL	O2D-CGD	5.17	1.45	1.33
27	3	321	CHL	CHD-C1D	5.17	1.48	1.39
27	B	846	CHL	C3D-C2D	5.17	1.48	1.39
27	A	820	CHL	CHB-C1B	5.17	1.48	1.39
27	A	848	CHL	CHD-C1D	5.17	1.48	1.39
27	A	850	CHL	C3B-C2B	5.17	1.47	1.40
27	5	308	CHL	CHD-C1D	5.17	1.48	1.39
27	B	844	CHL	CHD-C1D	5.17	1.48	1.39
27	5	311	CHL	O2D-CGD	5.17	1.45	1.33
27	B	830	CHL	CHD-C1D	5.17	1.48	1.39
27	B	811	CHL	C3B-C2B	5.17	1.47	1.40
27	B	840	CHL	CHD-C1D	5.16	1.48	1.39
27	3	315	CHL	CHC-C4B	5.16	1.48	1.39
27	A	834	CHL	CHD-C1D	5.16	1.48	1.39
27	A	855	CHL	C3B-C2B	5.16	1.47	1.40
27	L	303	CHL	C3D-C4D	-5.16	1.33	1.41
27	3	317	CHL	CHD-C1D	5.16	1.48	1.39
27	A	849	CHL	CHD-C1D	5.16	1.48	1.39
27	A	835	CHL	MG-NB	5.16	2.16	2.05
27	B	848	CHL	CHC-C4B	5.16	1.48	1.39
27	B	821	CHL	MG-NB	-5.16	1.95	2.05
27	3	310	CHL	CHD-C1D	5.16	1.48	1.39
27	3	312	CHL	CHC-C4B	5.16	1.48	1.39
27	B	814	CHL	CHD-C1D	5.15	1.48	1.39
27	K	204	CHL	C3D-C2D	5.15	1.48	1.39
27	A	853	CHL	CHC-C4B	5.15	1.48	1.39
27	7	321	CHL	MG-NB	5.15	2.16	2.05
27	b	307	CHL	O2D-CGD	5.15	1.45	1.33
27	A	849	CHL	MG-ND	-5.15	1.95	2.05
27	A	845	CHL	C3B-C2B	5.15	1.47	1.40
27	b	304	CHL	O2D-CGD	5.15	1.45	1.33
27	a	309	CHL	C3B-C2B	5.15	1.47	1.40
27	b	306	CHL	CHD-C1D	5.15	1.48	1.39
27	A	857	CHL	O2D-CGD	5.15	1.45	1.33
27	A	848	CHL	C3B-C2B	5.15	1.47	1.40
27	6	314	CHL	C3D-C2D	5.15	1.48	1.39
27	5	320	CHL	O2D-CGD	5.15	1.45	1.33
27	6	312	CHL	CHD-C1D	5.15	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	839	CHL	C3B-C2B	5.15	1.47	1.40
27	b	309	CHL	C3D-C2D	5.14	1.48	1.39
27	B	839	CHL	CHD-C1D	5.14	1.47	1.39
27	B	829	CHL	CHD-C1D	5.14	1.47	1.39
27	3	313	CHL	CHC-C4B	5.14	1.47	1.39
27	A	854	CHL	C3D-C2D	5.14	1.48	1.39
27	8	316	CHL	CHD-C1D	5.14	1.47	1.39
27	B	847	CHL	CHD-C1D	5.14	1.47	1.39
27	5	317	CHL	CHB-C4A	-5.14	1.32	1.38
27	B	831	CHL	CHD-C1D	5.14	1.47	1.39
27	b	310	CHL	O2D-CGD	5.14	1.45	1.33
27	b	312	CHL	O2D-CGD	5.13	1.45	1.33
27	B	827	CHL	CHD-C1D	5.13	1.47	1.39
27	A	846	CHL	C1A-CHA	5.13	1.45	1.40
27	3	321	CHL	O2D-CGD	5.13	1.45	1.33
27	a	310	CHL	CHD-C1D	5.13	1.47	1.39
27	4	314	CHL	CHD-C1D	5.13	1.47	1.39
27	B	826	CHL	CHD-C1D	5.13	1.47	1.39
27	b	308	CHL	CHC-C1C	5.13	1.49	1.39
27	a	317	CHL	C3D-C2D	5.13	1.48	1.39
27	A	846	CHL	C3B-C4B	5.12	1.46	1.41
27	3	313	CHL	C3B-C2B	5.12	1.47	1.40
27	B	820	CHL	C3D-C2D	5.12	1.48	1.39
27	A	830	CHL	CHD-C1D	5.12	1.47	1.39
27	8	322	CHL	CHC-C4B	5.12	1.47	1.39
27	4	307	CHL	CHD-C1D	5.12	1.47	1.39
27	b	309	CHL	O2D-CGD	5.11	1.45	1.33
27	3	311	CHL	CHC-C4B	5.11	1.47	1.39
27	4	319	CHL	OBD-CAD	5.11	1.29	1.22
27	3	314	CHL	C3D-C2D	5.11	1.48	1.39
27	8	326	CHL	CHC-C4B	5.11	1.47	1.39
27	B	812	CHL	C3D-C2D	5.11	1.48	1.39
27	8	313	CHL	CHD-C1D	5.11	1.47	1.39
27	A	817	CHL	C3D-C2D	5.11	1.48	1.39
27	8	319	CHL	CHD-C1D	5.11	1.47	1.39
27	A	817	CHL	CHC-C4B	5.11	1.47	1.39
27	7	318	CHL	C3B-C2B	5.11	1.47	1.40
27	B	828	CHL	C3D-C2D	5.11	1.48	1.39
27	5	310	CHL	CHD-C1D	5.11	1.47	1.39
27	8	320	CHL	C3D-C2D	5.11	1.48	1.39
27	A	855	CHL	O2D-CGD	5.11	1.45	1.33
27	A	824	CHL	CHC-C4B	5.11	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	321	CHL	C3D-C2D	5.11	1.48	1.39
27	B	829	CHL	C3D-C2D	5.10	1.48	1.39
27	7	317	CHL	O2D-CGD	5.10	1.45	1.33
27	3	315	CHL	C3B-C2B	5.10	1.47	1.40
27	5	311	CHL	CHD-C1D	5.10	1.47	1.39
27	b	304	CHL	C3D-C2D	5.10	1.48	1.39
27	B	827	CHL	CHC-C4B	5.10	1.47	1.39
27	8	319	CHL	O2D-CGD	5.10	1.45	1.33
27	A	821	CHL	CHD-C1D	5.10	1.47	1.39
27	6	306	CHL	O2D-CGD	5.09	1.45	1.33
27	A	852	CHL	O2D-CGD	5.09	1.45	1.33
27	B	851	CHL	CHD-C1D	5.09	1.47	1.39
27	5	308	CHL	O2D-CGD	5.09	1.45	1.33
27	8	312	CHL	C3D-C2D	5.09	1.48	1.39
27	4	318	CHL	OBD-CAD	5.09	1.29	1.22
27	b	313	CHL	O2D-CGD	5.09	1.45	1.33
27	B	819	CHL	CHD-C1D	5.09	1.47	1.39
27	b	314	CHL	O2D-CGD	5.09	1.45	1.33
27	K	206	CHL	C3D-C2D	5.09	1.48	1.39
27	4	317	CHL	CHB-C1B	5.09	1.47	1.39
27	B	842	CHL	CHD-C1D	5.09	1.47	1.39
27	5	323	CHL	O2D-CGD	5.09	1.45	1.33
27	4	311	CHL	O2D-CGD	5.09	1.45	1.33
27	A	823	CHL	CHD-C1D	5.09	1.47	1.39
27	a	320	CHL	O2D-CGD	5.09	1.45	1.33
27	B	816	CHL	CHC-C4B	5.09	1.47	1.39
27	8	316	CHL	O2D-CGD	5.09	1.45	1.33
27	5	314	CHL	O2D-CGD	5.09	1.45	1.33
27	7	323	CHL	CHD-C4C	5.08	1.49	1.39
27	4	304	CHL	CHD-C1D	5.08	1.47	1.39
27	8	317	CHL	O2D-CGD	5.08	1.45	1.33
27	A	858	CHL	CHD-C1D	5.08	1.47	1.39
27	B	841	CHL	CHC-C4B	5.08	1.47	1.39
27	4	304	CHL	MG-NB	-5.08	1.95	2.05
27	7	311	CHL	CHD-C1D	5.08	1.47	1.39
27	B	811	CHL	O2D-CGD	5.08	1.45	1.33
27	A	843	CHL	C1A-CHA	5.08	1.45	1.40
27	7	316	CHL	C3D-C2D	5.08	1.48	1.39
27	6	320	CHL	O2D-CGD	5.08	1.45	1.33
27	A	837	CHL	C3D-C2D	5.08	1.48	1.39
27	4	305	CHL	O2D-CGD	5.08	1.45	1.33
27	4	319	CHL	O2D-CGD	5.08	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	816	CHL	CHD-C1D	5.08	1.47	1.39
27	A	828	CHL	CHC-C4B	5.08	1.47	1.39
27	4	306	CHL	O2D-CGD	5.08	1.45	1.33
27	4	318	CHL	O2D-CGD	5.08	1.45	1.33
27	4	318	CHL	C3D-C2D	5.07	1.48	1.39
27	B	812	CHL	CHC-C4B	5.07	1.47	1.39
27	5	323	CHL	CHC-C4B	5.07	1.47	1.39
27	a	313	CHL	O2D-CGD	5.07	1.45	1.33
27	6	312	CHL	O2D-CGD	5.07	1.45	1.33
27	5	314	CHL	C3D-C2D	5.07	1.48	1.39
27	A	852	CHL	CHC-C4B	5.07	1.47	1.39
27	b	306	CHL	C3D-C2D	5.07	1.48	1.39
27	4	310	CHL	O2D-CGD	5.07	1.45	1.33
27	5	307	CHL	CHD-C1D	5.07	1.47	1.39
27	B	829	CHL	O2D-CGD	5.07	1.45	1.33
27	4	309	CHL	CHB-C4A	-5.07	1.32	1.38
27	A	839	CHL	C3D-C2D	5.07	1.48	1.39
27	a	312	CHL	O2D-CGD	5.07	1.45	1.33
27	7	316	CHL	O2D-CGD	5.06	1.45	1.33
27	6	306	CHL	C3D-C2D	5.06	1.48	1.39
27	7	312	CHL	O2D-CGD	5.06	1.45	1.33
27	B	821	CHL	C3D-C2D	5.06	1.48	1.39
27	4	308	CHL	O2D-CGD	5.06	1.45	1.33
27	B	828	CHL	MG-NB	-5.06	1.95	2.05
27	A	818	CHL	CHC-C4B	5.06	1.47	1.39
27	8	311	CHL	O2D-CGD	5.06	1.45	1.33
27	7	312	CHL	CHD-C1D	5.06	1.47	1.39
27	b	306	CHL	O2D-CGD	5.06	1.45	1.33
27	8	325	CHL	C3B-C2B	5.06	1.47	1.40
27	K	205	CHL	C3D-C2D	5.06	1.48	1.39
27	6	313	CHL	O2D-CGD	5.06	1.45	1.33
27	B	821	CHL	O2D-CGD	5.06	1.45	1.33
27	a	317	CHL	O2D-CGD	5.06	1.45	1.33
27	A	849	CHL	CHC-C4B	5.06	1.47	1.39
27	4	311	CHL	C3D-C2D	5.05	1.48	1.39
27	A	822	CHL	C3D-C2D	5.05	1.48	1.39
27	7	311	CHL	C3D-C2D	5.05	1.48	1.39
27	7	317	CHL	CHD-C1D	5.05	1.47	1.39
27	3	309	CHL	O2D-CGD	5.05	1.45	1.33
27	5	307	CHL	C3D-C2D	5.05	1.48	1.39
27	A	839	CHL	O2D-CGD	5.05	1.45	1.33
27	a	313	CHL	C3D-C2D	5.05	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	6	314	CHL	O2D-CGD	5.05	1.45	1.33
27	A	850	CHL	C3D-C2D	5.05	1.48	1.39
27	J	106	CHL	O2D-CGD	5.05	1.45	1.33
27	7	315	CHL	CHD-C1D	5.05	1.47	1.39
27	4	320	CHL	C3D-C2D	5.05	1.48	1.39
27	F	308	CHL	CHD-C1D	5.04	1.47	1.39
27	K	205	CHL	O2D-CGD	5.04	1.45	1.33
27	6	311	CHL	O2D-CGD	5.04	1.45	1.33
27	A	836	CHL	CHD-C1D	5.04	1.47	1.39
27	J	106	CHL	CHD-C1D	5.04	1.47	1.39
27	5	309	CHL	O2D-CGD	5.04	1.45	1.33
27	a	311	CHL	O2D-CGD	5.03	1.45	1.33
27	3	321	CHL	OBD-CAD	5.03	1.28	1.22
27	A	837	CHL	CHD-C1D	5.03	1.47	1.39
27	B	823	CHL	CHD-C1D	5.03	1.47	1.39
27	B	850	CHL	CHD-C1D	5.03	1.47	1.39
27	B	819	CHL	O2D-CGD	5.03	1.45	1.33
27	6	310	CHL	O2D-CGD	5.03	1.45	1.33
27	8	318	CHL	O2D-CGD	5.03	1.45	1.33
27	6	311	CHL	C3D-C2D	5.03	1.48	1.39
27	8	317	CHL	C3D-C2D	5.03	1.48	1.39
27	B	817	CHL	C3B-C2B	5.03	1.47	1.40
27	7	318	CHL	CHD-C1D	5.03	1.47	1.39
27	4	319	CHL	CHD-C4C	5.03	1.49	1.39
27	a	314	CHL	O2D-CGD	5.03	1.45	1.33
27	3	313	CHL	C3D-C2D	5.03	1.48	1.39
27	B	825	CHL	O2D-CGD	5.03	1.45	1.33
27	A	834	CHL	C3D-C2D	5.02	1.48	1.39
27	A	856	CHL	CHD-C1D	5.02	1.47	1.39
27	a	319	CHL	O2D-CGD	5.02	1.45	1.33
27	7	323	CHL	C3D-C4D	-5.02	1.33	1.41
27	A	837	CHL	O2D-CGD	5.02	1.45	1.33
27	b	308	CHL	O2D-CGD	5.02	1.45	1.33
27	3	318	CHL	O2D-CGD	5.02	1.45	1.33
27	7	320	CHL	CHB-C4A	-5.02	1.32	1.38
27	A	845	CHL	CHC-C4B	5.02	1.47	1.39
27	4	304	CHL	O2D-CGD	5.02	1.45	1.33
27	b	305	CHL	O2D-CGD	5.02	1.45	1.33
27	A	855	CHL	C3D-C2D	5.02	1.48	1.39
27	4	314	CHL	O2D-CGD	5.02	1.45	1.33
27	F	308	CHL	O2D-CGD	5.02	1.45	1.33
27	b	312	CHL	C3D-C2D	5.02	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	834	CHL	C3B-C2B	5.02	1.47	1.40
27	B	845	CHL	CHD-C1D	5.02	1.47	1.39
27	A	853	CHL	C3D-C2D	5.01	1.48	1.39
27	3	315	CHL	C3D-C2D	5.01	1.48	1.39
27	6	313	CHL	C3D-C2D	5.01	1.48	1.39
27	4	307	CHL	O2D-CGD	5.01	1.45	1.33
27	3	311	CHL	C3D-C2D	5.01	1.48	1.39
27	5	315	CHL	C3D-C2D	5.01	1.48	1.39
27	5	323	CHL	C3B-C2B	5.01	1.47	1.40
27	8	325	CHL	C3D-C2D	5.01	1.48	1.39
27	B	839	CHL	O2D-CGD	5.01	1.45	1.33
27	A	858	CHL	O2D-CGD	5.01	1.45	1.33
27	4	315	CHL	C3D-C2D	5.01	1.48	1.39
27	7	313	CHL	C3B-C2B	5.01	1.47	1.40
27	A	857	CHL	CHD-C1D	5.01	1.47	1.39
27	A	818	CHL	C3D-C2D	5.01	1.48	1.39
27	3	318	CHL	C3D-C2D	5.01	1.48	1.39
27	5	322	CHL	O2D-CGD	5.01	1.45	1.33
27	A	845	CHL	C3D-C2D	5.00	1.48	1.39
27	B	843	CHL	O2D-CGD	5.00	1.45	1.33
27	6	319	CHL	C3B-C2B	5.00	1.47	1.40
27	B	845	CHL	C3D-C2D	5.00	1.48	1.39
27	8	311	CHL	C3D-C2D	5.00	1.48	1.39
27	A	854	CHL	O2D-CGD	5.00	1.45	1.33
27	B	846	CHL	C3B-C2B	5.00	1.47	1.40
27	3	319	CHL	O2D-CGD	5.00	1.45	1.33
27	B	824	CHL	C3D-C2D	5.00	1.48	1.39
27	3	319	CHL	C3D-C2D	5.00	1.48	1.39
27	4	307	CHL	C3D-C2D	5.00	1.48	1.39
27	b	305	CHL	OBD-CAD	5.00	1.28	1.22
27	3	314	CHL	O2D-CGD	5.00	1.45	1.33
27	A	851	CHL	C3D-C2D	5.00	1.48	1.39
27	B	836	CHL	O2D-CGD	5.00	1.45	1.33
27	B	831	CHL	C3D-C2D	5.00	1.48	1.39
27	B	839	CHL	C3D-C2D	5.00	1.48	1.39
27	4	308	CHL	CHD-C1D	5.00	1.47	1.39
27	7	324	CHL	O2D-CGD	5.00	1.45	1.33
27	3	320	CHL	O2D-CGD	4.99	1.45	1.33
27	A	852	CHL	CHD-C1D	4.99	1.47	1.39
27	3	308	CHL	CHD-C1D	4.99	1.47	1.39
27	4	313	CHL	CHB-C1B	4.99	1.47	1.39
27	K	204	CHL	O2D-CGD	4.99	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	317	CHL	C3D-C2D	4.99	1.48	1.39
27	B	831	CHL	O2D-CGD	4.99	1.45	1.33
27	B	851	CHL	O2D-CGD	4.99	1.45	1.33
27	3	313	CHL	O2D-CGD	4.99	1.45	1.33
27	A	833	CHL	CHB-C4A	-4.99	1.32	1.38
27	8	320	CHL	O2D-CGD	4.99	1.45	1.33
27	F	308	CHL	C3D-C2D	4.99	1.48	1.39
27	B	816	CHL	C3D-C2D	4.99	1.48	1.39
27	A	825	CHL	O2D-CGD	4.99	1.45	1.33
27	6	320	CHL	C3D-C2D	4.99	1.48	1.39
27	B	824	CHL	O2D-CGD	4.99	1.45	1.33
27	8	326	CHL	O2D-CGD	4.99	1.45	1.33
27	A	824	CHL	CHD-C1D	4.99	1.47	1.39
27	3	317	CHL	O2D-CGD	4.98	1.45	1.33
27	b	314	CHL	C3D-C2D	4.98	1.48	1.39
27	a	309	CHL	O2D-CGD	4.98	1.45	1.33
27	4	313	CHL	O2D-CGD	4.98	1.45	1.33
27	5	312	CHL	C3D-C2D	4.98	1.48	1.39
27	B	816	CHL	CHD-C1D	4.98	1.47	1.39
27	A	819	CHL	CHD-C1D	4.98	1.47	1.39
27	6	316	CHL	CHB-C4A	-4.98	1.32	1.38
27	5	314	CHL	OBD-CAD	4.98	1.28	1.22
27	F	309	CHL	O2D-CGD	4.98	1.45	1.33
27	a	312	CHL	OBD-CAD	4.97	1.28	1.22
27	b	306	CHL	OBD-CAD	4.97	1.28	1.22
27	6	309	CHL	C3D-C2D	4.97	1.48	1.39
27	B	850	CHL	O2D-CGD	4.97	1.45	1.33
27	b	308	CHL	C3A-C2A	-4.97	1.50	1.54
27	8	322	CHL	O2D-CGD	4.97	1.45	1.33
27	K	204	CHL	CHD-C1D	4.97	1.47	1.39
27	5	323	CHL	C3D-C2D	4.97	1.48	1.39
27	5	315	CHL	O2D-CGD	4.97	1.45	1.33
27	8	325	CHL	O2D-CGD	4.97	1.45	1.33
27	a	319	CHL	MG-NB	4.97	2.15	2.05
27	B	830	CHL	O2D-CGD	4.97	1.45	1.33
27	3	310	CHL	C3D-C2D	4.97	1.48	1.39
27	a	320	CHL	C3D-C2D	4.97	1.48	1.39
27	5	318	CHL	C3D-C2D	4.97	1.48	1.39
27	5	320	CHL	C3D-C2D	4.97	1.48	1.39
27	B	836	CHL	CHC-C4B	4.97	1.47	1.39
27	7	317	CHL	C3D-C2D	4.97	1.48	1.39
27	B	812	CHL	CHB-C1B	4.97	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	b	311	CHL	CHB-C4A	-4.97	1.32	1.38
27	6	318	CHL	CHB-C4A	-4.96	1.32	1.38
27	b	310	CHL	OBD-CAD	4.96	1.28	1.22
27	A	844	CHL	O2D-CGD	4.96	1.45	1.33
27	B	827	CHL	C3B-C2B	4.96	1.47	1.40
27	a	319	CHL	C3D-C2D	4.96	1.48	1.39
27	A	859	CHL	C3D-C2D	4.96	1.48	1.39
27	b	315	CHL	CHD-C1D	4.96	1.47	1.39
27	a	307	CHL	C3D-C2D	4.96	1.48	1.39
27	A	847	CHL	C3D-C2D	4.96	1.48	1.39
27	8	318	CHL	C3D-C2D	4.96	1.48	1.39
27	B	812	CHL	O2D-CGD	4.96	1.45	1.33
27	8	313	CHL	O2D-CGD	4.96	1.45	1.33
27	B	823	CHL	O2D-CGD	4.96	1.45	1.33
27	A	832	CHL	CHD-C1D	4.96	1.47	1.39
27	A	825	CHL	C3D-C2D	4.96	1.48	1.39
27	a	307	CHL	O2D-CGD	4.96	1.45	1.33
27	6	305	CHL	O2D-CGD	4.96	1.45	1.33
27	6	309	CHL	O2D-CGD	4.96	1.45	1.33
27	A	856	CHL	O2D-CGD	4.96	1.45	1.33
27	B	815	CHL	O2D-CGD	4.96	1.45	1.33
27	6	319	CHL	O2D-CGD	4.96	1.45	1.33
27	a	314	CHL	C3D-C2D	4.95	1.48	1.39
27	B	840	CHL	C3D-C2D	4.95	1.48	1.39
27	8	312	CHL	CHD-C1D	4.95	1.47	1.39
27	7	311	CHL	O2D-CGD	4.95	1.45	1.33
27	B	848	CHL	C3D-C2D	4.95	1.48	1.39
27	A	847	CHL	O2D-CGD	4.95	1.45	1.33
27	a	307	CHL	CHD-C1D	4.95	1.47	1.39
27	b	315	CHL	C3D-C2D	4.95	1.48	1.39
27	A	838	CHL	O2D-CGD	4.95	1.45	1.33
27	A	829	CHL	C3D-C2D	4.95	1.48	1.39
27	B	826	CHL	C3D-C2D	4.95	1.48	1.39
27	B	811	CHL	CHD-C1D	4.95	1.47	1.39
27	4	310	CHL	OBD-CAD	4.95	1.28	1.22
27	A	848	CHL	O2D-CGD	4.95	1.45	1.33
27	A	849	CHL	O2D-CGD	4.95	1.45	1.33
27	B	813	CHL	O2D-CGD	4.95	1.45	1.33
27	5	320	CHL	OBD-CAD	4.95	1.28	1.22
27	B	841	CHL	C3D-C2D	4.95	1.48	1.39
27	B	836	CHL	C3D-C2D	4.95	1.48	1.39
27	a	309	CHL	C3D-C2D	4.95	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	309	CHL	C3D-C2D	4.95	1.48	1.39
27	7	323	CHL	C3B-C2B	4.95	1.47	1.40
27	4	305	CHL	C3D-C2D	4.94	1.48	1.39
27	7	314	CHL	C3D-C2D	4.94	1.48	1.39
27	7	324	CHL	C3D-C2D	4.94	1.48	1.39
27	A	849	CHL	C3D-C2D	4.94	1.48	1.39
27	B	813	CHL	C3D-C2D	4.94	1.48	1.39
27	8	315	CHL	CHD-C1D	4.94	1.47	1.39
27	5	307	CHL	O2D-CGD	4.94	1.45	1.33
27	7	313	CHL	O2D-CGD	4.94	1.45	1.33
27	6	315	CHL	C3D-C2D	4.94	1.48	1.39
27	a	310	CHL	O2D-CGD	4.94	1.45	1.33
27	B	849	CHL	C3D-C2D	4.94	1.48	1.39
27	B	817	CHL	CHD-C1D	4.94	1.47	1.39
27	B	848	CHL	C3B-C2B	4.94	1.47	1.40
27	8	319	CHL	C3D-C2D	4.94	1.48	1.39
27	F	308	CHL	OBD-CAD	4.94	1.28	1.22
27	B	850	CHL	MG-NB	4.94	2.15	2.05
27	3	320	CHL	CHC-C1C	4.94	1.48	1.39
27	5	312	CHL	O2D-CGD	4.93	1.45	1.33
27	b	304	CHL	MG-ND	-4.93	1.96	2.05
27	7	323	CHL	CHC-C4B	4.93	1.47	1.39
27	B	828	CHL	C3B-C2B	4.93	1.47	1.40
27	B	816	CHL	O2D-CGD	4.93	1.45	1.33
27	b	308	CHL	OBD-CAD	4.93	1.28	1.22
27	b	307	CHL	C3D-C2D	4.93	1.48	1.39
27	b	304	CHL	OBD-CAD	4.93	1.28	1.22
27	B	828	CHL	O2D-CGD	4.93	1.45	1.33
27	B	845	CHL	O2D-CGD	4.93	1.45	1.33
27	A	826	CHL	C3D-C2D	4.93	1.48	1.39
27	4	313	CHL	C3D-C2D	4.93	1.48	1.39
27	3	310	CHL	O2D-CGD	4.93	1.45	1.33
27	B	817	CHL	CHC-C4B	4.93	1.47	1.39
27	5	323	CHL	OBD-CAD	4.93	1.28	1.22
27	B	846	CHL	O2D-CGD	4.93	1.45	1.33
27	A	824	CHL	C3D-C2D	4.93	1.48	1.39
27	A	823	CHL	O2D-CGD	4.93	1.45	1.33
27	A	832	CHL	C3D-C2D	4.92	1.48	1.39
27	B	851	CHL	C3D-C2D	4.92	1.48	1.39
27	3	312	CHL	O2D-CGD	4.92	1.45	1.33
27	B	836	CHL	MG-NB	4.92	2.15	2.05
27	7	314	CHL	O2D-CGD	4.92	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	a	314	CHL	OBD-CAD	4.92	1.28	1.22
27	B	820	CHL	O2D-CGD	4.92	1.45	1.33
27	B	822	CHL	O2D-CGD	4.92	1.45	1.33
27	B	826	CHL	O2D-CGD	4.92	1.45	1.33
27	8	324	CHL	O2D-CGD	4.92	1.45	1.33
27	B	830	CHL	OBD-CAD	4.92	1.28	1.22
27	b	309	CHL	OBD-CAD	4.92	1.28	1.22
27	4	319	CHL	CHC-C1C	4.92	1.48	1.39
27	4	315	CHL	O2D-CGD	4.92	1.45	1.33
27	B	824	CHL	OBD-CAD	4.92	1.28	1.22
27	A	840	CHL	O2D-CGD	4.92	1.45	1.33
27	3	308	CHL	O2D-CGD	4.92	1.45	1.33
27	6	309	CHL	OBD-CAD	4.91	1.28	1.22
27	4	317	CHL	C3B-C2B	4.91	1.47	1.40
27	K	206	CHL	OBD-CAD	4.91	1.28	1.22
27	3	319	CHL	OBD-CAD	4.91	1.28	1.22
27	4	306	CHL	OBD-CAD	4.91	1.28	1.22
27	A	817	CHL	O2D-CGD	4.91	1.45	1.33
27	a	316	CHL	CHB-C4A	-4.91	1.32	1.38
27	b	304	CHL	MG-NB	4.91	2.15	2.05
27	A	828	CHL	O2D-CGD	4.91	1.45	1.33
27	B	818	CHL	O2D-CGD	4.91	1.45	1.33
27	b	315	CHL	OBD-CAD	4.91	1.28	1.22
27	B	844	CHL	O2D-CGD	4.91	1.45	1.33
27	A	857	CHL	OBD-CAD	4.91	1.28	1.22
27	4	320	CHL	OBD-CAD	4.91	1.28	1.22
27	4	304	CHL	C3D-C2D	4.91	1.48	1.39
27	A	826	CHL	O2D-CGD	4.91	1.45	1.33
27	A	830	CHL	O2D-CGD	4.91	1.45	1.33
27	b	316	CHL	O2D-CGD	4.90	1.45	1.33
27	6	319	CHL	OBD-CAD	4.90	1.28	1.22
27	4	316	CHL	CHB-C4A	-4.90	1.32	1.38
27	F	309	CHL	C3D-C2D	4.90	1.48	1.39
27	8	322	CHL	C3D-C2D	4.90	1.48	1.39
27	5	310	CHL	O2D-CGD	4.90	1.45	1.33
27	4	317	CHL	CHC-C4B	4.90	1.47	1.39
27	5	318	CHL	O2D-CGD	4.90	1.45	1.33
27	3	315	CHL	O2D-CGD	4.90	1.45	1.33
27	A	844	CHL	C3D-C2D	4.90	1.48	1.39
27	A	848	CHL	C3D-C2D	4.90	1.48	1.39
27	B	811	CHL	C3D-C2D	4.90	1.48	1.39
27	8	315	CHL	O2D-CGD	4.90	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	7	313	CHL	C3D-C2D	4.90	1.48	1.39
27	B	838	CHL	O2D-CGD	4.90	1.45	1.33
27	a	318	CHL	O2D-CGD	4.90	1.45	1.33
27	5	321	CHL	C3D-C2D	4.90	1.48	1.39
27	B	827	CHL	C3D-C2D	4.90	1.48	1.39
27	B	815	CHL	CHD-C1D	4.90	1.47	1.39
27	5	314	CHL	MG-ND	4.90	2.15	2.05
27	8	322	CHL	CHD-C1D	4.89	1.47	1.39
27	6	308	CHL	C3B-C2B	4.89	1.47	1.40
27	A	850	CHL	O2D-CGD	4.89	1.45	1.33
27	3	320	CHL	C3D-C2D	4.89	1.48	1.39
27	A	820	CHL	CHD-C1D	4.89	1.47	1.39
27	a	308	CHL	C3D-C2D	4.89	1.48	1.39
27	5	308	CHL	OBD-CAD	4.89	1.28	1.22
27	5	308	CHL	C3D-C2D	4.89	1.48	1.39
27	8	314	CHL	MG-NB	-4.89	1.96	2.05
27	8	315	CHL	C3D-C2D	4.89	1.48	1.39
27	b	316	CHL	CHB-C4A	-4.89	1.32	1.38
27	A	857	CHL	C3D-C2D	4.89	1.48	1.39
27	B	838	CHL	C3D-C2D	4.89	1.48	1.39
27	A	853	CHL	O2D-CGD	4.89	1.45	1.33
27	A	827	CHL	C3D-C2D	4.89	1.48	1.39
27	B	835	CHL	O2D-CGD	4.89	1.45	1.33
27	6	305	CHL	C3D-C2D	4.89	1.48	1.39
27	B	827	CHL	O2D-CGD	4.88	1.45	1.33
27	B	851	CHL	CHC-C1C	4.88	1.48	1.39
27	B	817	CHL	O2D-CGD	4.88	1.45	1.33
27	4	306	CHL	C3D-C2D	4.88	1.48	1.39
27	A	835	CHL	O2D-CGD	4.88	1.45	1.33
27	b	313	CHL	OBD-CAD	4.88	1.28	1.22
27	7	318	CHL	O2D-CGD	4.88	1.45	1.33
27	4	305	CHL	OBD-CAD	4.88	1.28	1.22
27	a	312	CHL	C3D-C2D	4.88	1.48	1.39
27	B	841	CHL	CHD-C1D	4.88	1.47	1.39
27	B	822	CHL	C3D-C2D	4.88	1.48	1.39
27	L	304	CHL	OBD-CAD	4.88	1.28	1.22
27	B	818	CHL	C3B-C2B	4.88	1.47	1.40
27	B	825	CHL	CHD-C1D	4.88	1.47	1.39
27	B	820	CHL	OBD-CAD	4.87	1.28	1.22
27	3	309	CHL	OBD-CAD	4.87	1.28	1.22
27	b	310	CHL	CHD-C4C	4.87	1.48	1.39
27	b	315	CHL	O2D-CGD	4.87	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	842	CHL	C3D-C2D	4.87	1.48	1.39
27	b	308	CHL	C3D-C2D	4.87	1.48	1.39
27	A	828	CHL	MG-ND	4.87	2.15	2.05
27	A	838	CHL	C3D-C2D	4.87	1.48	1.39
27	B	847	CHL	C3D-C2D	4.87	1.48	1.39
27	8	316	CHL	C3D-C2D	4.87	1.48	1.39
27	B	818	CHL	C3D-C2D	4.87	1.47	1.39
27	B	843	CHL	C3D-C2D	4.87	1.47	1.39
27	3	312	CHL	C3D-C2D	4.87	1.47	1.39
27	5	321	CHL	O2D-CGD	4.87	1.45	1.33
27	A	821	CHL	O2D-CGD	4.87	1.45	1.33
27	a	310	CHL	C3D-C2D	4.87	1.47	1.39
27	8	311	CHL	OBD-CAD	4.87	1.28	1.22
27	A	849	CHL	OBD-CAD	4.87	1.28	1.22
27	7	318	CHL	C3D-C2D	4.87	1.47	1.39
27	6	309	CHL	MG-NB	4.87	2.15	2.05
27	A	832	CHL	O2D-CGD	4.86	1.45	1.33
27	A	820	CHL	C3D-C2D	4.86	1.47	1.39
27	B	829	CHL	OBD-CAD	4.86	1.28	1.22
27	5	319	CHL	CHB-C4A	-4.86	1.32	1.38
27	A	819	CHL	C3D-C2D	4.86	1.47	1.39
27	a	309	CHL	OBD-CAD	4.86	1.28	1.22
27	4	311	CHL	OBD-CAD	4.86	1.28	1.22
27	4	313	CHL	C3D-C4D	-4.86	1.34	1.41
27	A	836	CHL	O2D-CGD	4.86	1.45	1.33
27	7	318	CHL	OBD-CAD	4.86	1.28	1.22
27	8	326	CHL	CHD-C1D	4.86	1.47	1.39
27	B	849	CHL	O2D-CGD	4.86	1.45	1.33
27	6	318	CHL	O2D-CGD	4.86	1.45	1.33
27	8	313	CHL	C3D-C2D	4.85	1.47	1.39
27	5	315	CHL	OBD-CAD	4.85	1.28	1.22
27	5	309	CHL	C3D-C2D	4.85	1.47	1.39
27	5	321	CHL	OBD-CAD	4.85	1.28	1.22
27	B	842	CHL	OBD-CAD	4.85	1.28	1.22
27	3	314	CHL	OBD-CAD	4.85	1.28	1.22
27	3	320	CHL	CHD-C1D	4.85	1.47	1.39
27	A	858	CHL	C3D-C2D	4.85	1.47	1.39
27	4	316	CHL	O2D-CGD	4.85	1.45	1.33
27	K	207	CHL	CHB-C4A	-4.85	1.32	1.38
27	a	311	CHL	C3D-C2D	4.85	1.47	1.39
27	B	832	CHL	O2D-CGD	4.85	1.45	1.33
27	A	836	CHL	C3D-C2D	4.85	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	8	314	CHL	CHB-C4A	-4.85	1.32	1.38
27	b	307	CHL	OBD-CAD	4.85	1.28	1.22
27	6	310	CHL	C3D-C2D	4.84	1.47	1.39
27	A	819	CHL	O2D-CGD	4.84	1.45	1.33
27	b	317	CHL	O2D-CGD	4.84	1.45	1.33
27	B	847	CHL	O2D-CGD	4.84	1.45	1.33
27	a	315	CHL	O2D-CGD	4.84	1.45	1.33
27	5	325	CHL	O2D-CGD	4.84	1.45	1.33
27	6	315	CHL	OBD-CAD	4.84	1.28	1.22
27	3	308	CHL	C3D-C2D	4.84	1.47	1.39
27	7	323	CHL	O2D-CGD	4.84	1.45	1.33
27	B	818	CHL	CHD-C1D	4.84	1.47	1.39
27	7	312	CHL	C3D-C2D	4.84	1.47	1.39
27	B	814	CHL	C3D-C2D	4.84	1.47	1.39
27	b	312	CHL	OBD-CAD	4.84	1.28	1.22
27	B	843	CHL	OBD-CAD	4.84	1.28	1.22
27	a	319	CHL	OBD-CAD	4.84	1.28	1.22
27	6	314	CHL	OBD-CAD	4.84	1.28	1.22
27	4	312	CHL	CHB-C4A	-4.84	1.32	1.38
27	a	315	CHL	CHB-C4A	-4.84	1.32	1.38
27	A	822	CHL	O2D-CGD	4.84	1.45	1.33
27	J	106	CHL	OBD-CAD	4.83	1.28	1.22
27	4	313	CHL	OBD-CAD	4.83	1.28	1.22
27	8	326	CHL	C3D-C2D	4.83	1.47	1.39
27	B	841	CHL	O2D-CGD	4.83	1.45	1.33
27	A	828	CHL	C3D-C2D	4.83	1.47	1.39
27	8	313	CHL	OBD-CAD	4.83	1.28	1.22
27	B	813	CHL	OBD-CAD	4.83	1.28	1.22
27	B	835	CHL	C3D-C2D	4.83	1.47	1.39
27	6	312	CHL	OBD-CAD	4.83	1.28	1.22
27	8	315	CHL	CHC-C1C	4.83	1.48	1.39
27	B	833	CHL	O2D-CGD	4.82	1.45	1.33
27	a	316	CHL	O2D-CGD	4.82	1.45	1.33
27	4	317	CHL	O2D-CGD	4.82	1.45	1.33
27	B	842	CHL	O2D-CGD	4.82	1.45	1.33
27	b	305	CHL	CHD-C4C	4.82	1.48	1.39
27	J	106	CHL	C3D-C2D	4.82	1.47	1.39
27	4	314	CHL	C3D-C2D	4.82	1.47	1.39
27	8	314	CHL	O2D-CGD	4.82	1.45	1.33
27	B	851	CHL	OBD-CAD	4.82	1.28	1.22
27	3	318	CHL	OBD-CAD	4.82	1.28	1.22
27	7	323	CHL	C3D-C2D	4.82	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	818	CHL	O2D-CGD	4.81	1.45	1.33
27	4	312	CHL	O2D-CGD	4.81	1.45	1.33
27	a	308	CHL	OBD-CAD	4.81	1.28	1.22
27	a	317	CHL	OBD-CAD	4.81	1.28	1.22
27	K	206	CHL	C3B-C2B	4.81	1.46	1.40
27	3	311	CHL	O2D-CGD	4.81	1.45	1.33
27	5	325	CHL	CHB-C4A	-4.81	1.32	1.38
27	8	323	CHL	C3B-C2B	4.81	1.46	1.40
27	5	313	CHL	C1A-CHA	4.81	1.45	1.40
27	A	829	CHL	O2D-CGD	4.81	1.45	1.33
27	B	848	CHL	O2D-CGD	4.80	1.45	1.33
27	B	830	CHL	MG-ND	-4.80	1.96	2.05
27	B	837	CHL	O2D-CGD	4.80	1.45	1.33
27	A	851	CHL	O2D-CGD	4.80	1.45	1.33
27	A	827	CHL	O2D-CGD	4.80	1.45	1.33
27	A	837	CHL	OBD-CAD	4.80	1.28	1.22
27	b	311	CHL	O2D-CGD	4.80	1.45	1.33
27	B	823	CHL	C3D-C2D	4.80	1.47	1.39
27	6	319	CHL	CHB-C1B	4.80	1.47	1.39
27	8	317	CHL	OBD-CAD	4.80	1.28	1.22
27	6	311	CHL	CHC-C1C	4.79	1.48	1.39
27	7	324	CHL	OBD-CAD	4.79	1.28	1.22
27	B	821	CHL	OBD-CAD	4.79	1.28	1.22
27	A	840	CHL	C3D-C2D	4.79	1.47	1.39
27	a	307	CHL	OBD-CAD	4.79	1.28	1.22
27	A	859	CHL	O2D-CGD	4.79	1.45	1.33
27	A	820	CHL	O2D-CGD	4.79	1.45	1.33
27	B	834	CHL	CHD-C1D	4.78	1.47	1.39
27	4	304	CHL	OBD-CAD	4.78	1.28	1.22
27	A	835	CHL	C3D-C2D	4.78	1.47	1.39
27	A	819	CHL	CHC-C1C	4.78	1.48	1.39
27	B	812	CHL	CHD-C1D	4.78	1.47	1.39
27	b	310	CHL	CHC-C1C	4.78	1.48	1.39
27	5	310	CHL	C3D-C2D	4.78	1.47	1.39
27	8	312	CHL	O2D-CGD	4.78	1.45	1.33
27	B	844	CHL	C3D-C2D	4.78	1.47	1.39
27	5	322	CHL	CHB-C4A	-4.78	1.32	1.38
27	8	323	CHL	CHC-C4B	4.78	1.47	1.39
27	K	207	CHL	O2D-CGD	4.78	1.45	1.33
27	a	310	CHL	OBD-CAD	4.78	1.28	1.22
27	B	814	CHL	O2D-CGD	4.78	1.45	1.33
27	B	818	CHL	CHC-C4B	4.78	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	4	318	CHL	CHD-C4C	4.77	1.48	1.39
27	A	816	CHL	O2D-CGD	4.77	1.45	1.33
27	A	829	CHL	OBD-CAD	4.77	1.28	1.22
27	4	308	CHL	C3D-C2D	4.77	1.47	1.39
27	a	319	CHL	CHD-C4C	4.77	1.48	1.39
26	A	815	CL0	C1A-CHA	4.77	1.45	1.40
27	6	313	CHL	OBD-CAD	4.77	1.28	1.22
27	B	826	CHL	OBD-CAD	4.77	1.28	1.22
27	7	323	CHL	OBD-CAD	4.77	1.28	1.22
26	A	815	CL0	C3B-C4B	4.77	1.46	1.41
27	L	304	CHL	CHD-C4C	4.77	1.48	1.39
27	8	321	CHL	O2D-CGD	4.77	1.44	1.33
27	B	815	CHL	C3D-C2D	4.77	1.47	1.39
27	b	315	CHL	CHC-C1C	4.77	1.48	1.39
27	5	319	CHL	O2D-CGD	4.76	1.44	1.33
27	7	322	CHL	O2D-CGD	4.76	1.44	1.33
27	8	325	CHL	OBD-CAD	4.76	1.28	1.22
27	8	323	CHL	O2D-CGD	4.76	1.44	1.33
27	B	817	CHL	OBD-CAD	4.76	1.28	1.22
27	3	310	CHL	OBD-CAD	4.76	1.28	1.22
27	B	814	CHL	CHC-C1C	4.76	1.48	1.39
27	K	204	CHL	OBD-CAD	4.76	1.28	1.22
27	5	320	CHL	CHC-C1C	4.75	1.48	1.39
27	B	838	CHL	OBD-CAD	4.75	1.28	1.22
27	B	819	CHL	C3D-C2D	4.75	1.47	1.39
27	5	312	CHL	OBD-CAD	4.75	1.28	1.22
27	B	833	CHL	C3D-C2D	4.75	1.47	1.39
27	B	825	CHL	C3D-C2D	4.74	1.47	1.39
27	b	316	CHL	OBD-CAD	4.74	1.28	1.22
27	A	822	CHL	CHC-C1C	4.74	1.48	1.39
27	4	307	CHL	OBD-CAD	4.74	1.28	1.22
27	A	839	CHL	OBD-CAD	4.74	1.28	1.22
27	5	318	CHL	OBD-CAD	4.74	1.28	1.22
27	6	314	CHL	CHC-C1C	4.74	1.48	1.39
27	7	315	CHL	C3D-C2D	4.74	1.47	1.39
27	A	827	CHL	OBD-CAD	4.74	1.28	1.22
27	a	320	CHL	OBD-CAD	4.74	1.28	1.22
27	8	323	CHL	C3A-C2A	-4.74	1.50	1.54
27	5	310	CHL	CHC-C1C	4.74	1.48	1.39
27	4	309	CHL	O2D-CGD	4.74	1.44	1.33
27	B	840	CHL	CHC-C1C	4.74	1.48	1.39
27	3	313	CHL	OBD-CAD	4.74	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	851	CHL	OBD-CAD	4.73	1.28	1.22
27	A	822	CHL	OBD-CAD	4.73	1.28	1.22
27	b	306	CHL	CHC-C1C	4.73	1.48	1.39
27	A	823	CHL	C3D-C2D	4.73	1.47	1.39
27	B	822	CHL	OBD-CAD	4.73	1.28	1.22
27	B	848	CHL	OBD-CAD	4.73	1.28	1.22
27	6	311	CHL	OBD-CAD	4.73	1.28	1.22
27	4	315	CHL	OBD-CAD	4.72	1.28	1.22
27	A	817	CHL	OBD-CAD	4.72	1.28	1.22
27	A	858	CHL	OBD-CAD	4.72	1.28	1.22
27	5	315	CHL	CHD-C4C	4.72	1.48	1.39
27	B	819	CHL	OBD-CAD	4.72	1.28	1.22
27	A	835	CHL	OBD-CAD	4.72	1.28	1.22
27	B	827	CHL	OBD-CAD	4.72	1.28	1.22
27	B	840	CHL	OBD-CAD	4.72	1.28	1.22
27	4	318	CHL	CHC-C1C	4.72	1.48	1.39
27	A	850	CHL	OBD-CAD	4.72	1.28	1.22
27	A	816	CHL	CHC-C1C	4.71	1.48	1.39
27	6	312	CHL	C3D-C2D	4.71	1.47	1.39
27	8	312	CHL	CHC-C1C	4.71	1.48	1.39
27	a	314	CHL	CHC-C1C	4.71	1.48	1.39
27	K	206	CHL	CHD-C4C	4.71	1.48	1.39
27	3	314	CHL	CHC-C1C	4.71	1.48	1.39
27	6	305	CHL	OBD-CAD	4.71	1.28	1.22
27	4	315	CHL	CHC-C1C	4.71	1.48	1.39
27	5	307	CHL	CHC-C1C	4.71	1.48	1.39
27	7	314	CHL	CHC-C1C	4.71	1.48	1.39
27	A	827	CHL	CHC-C1C	4.71	1.48	1.39
27	A	855	CHL	OBD-CAD	4.71	1.28	1.22
27	A	817	CHL	CHD-C1D	4.71	1.47	1.39
27	A	837	CHL	MG-NB	4.71	2.15	2.05
27	A	845	CHL	O2D-CGD	4.71	1.44	1.33
27	K	205	CHL	OBD-CAD	4.71	1.28	1.22
27	A	830	CHL	C3D-C2D	4.71	1.47	1.39
27	A	834	CHL	O2D-CGD	4.70	1.44	1.33
27	3	316	CHL	O2D-CGD	4.70	1.44	1.33
27	B	847	CHL	OBD-CAD	4.70	1.28	1.22
27	B	820	CHL	CHD-C4C	4.70	1.48	1.39
27	a	307	CHL	CHC-C1C	4.70	1.48	1.39
27	A	848	CHL	OBD-CAD	4.70	1.28	1.22
27	b	309	CHL	CHD-C4C	4.70	1.48	1.39
27	B	850	CHL	C3D-C2D	4.70	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	4	310	CHL	CHC-C1C	4.70	1.48	1.39
27	5	311	CHL	C3D-C2D	4.70	1.47	1.39
27	b	311	CHL	MG-NB	-4.70	1.96	2.05
27	5	307	CHL	OBD-CAD	4.70	1.28	1.22
27	a	313	CHL	OBD-CAD	4.70	1.28	1.22
27	6	317	CHL	CHB-C4A	-4.70	1.33	1.38
27	A	820	CHL	CHC-C1C	4.69	1.48	1.39
27	B	837	CHL	OBD-CAD	4.69	1.28	1.22
27	A	826	CHL	OBD-CAD	4.69	1.28	1.22
27	b	314	CHL	OBD-CAD	4.69	1.28	1.22
27	A	831	CHL	C1A-CHA	4.69	1.45	1.40
27	6	308	CHL	O2D-CGD	4.69	1.44	1.33
27	7	316	CHL	OBD-CAD	4.69	1.28	1.22
27	b	312	CHL	CHD-C4C	4.69	1.48	1.39
27	b	314	CHL	CHC-C1C	4.69	1.48	1.39
27	8	320	CHL	OBD-CAD	4.69	1.28	1.22
27	A	842	CHL	O2D-CGD	4.69	1.44	1.33
27	8	321	CHL	CHB-C4A	-4.69	1.33	1.38
27	a	316	CHL	OBD-CAD	4.68	1.28	1.22
27	B	811	CHL	OBD-CAD	4.68	1.28	1.22
27	B	835	CHL	OBD-CAD	4.68	1.28	1.22
27	a	312	CHL	CHD-C4C	4.68	1.48	1.39
27	7	315	CHL	O2D-CGD	4.68	1.45	1.30
27	4	311	CHL	CHD-C4C	4.68	1.48	1.39
27	4	314	CHL	CHC-C1C	4.68	1.48	1.39
27	a	311	CHL	OBD-CAD	4.68	1.28	1.22
27	7	314	CHL	OBD-CAD	4.68	1.28	1.22
27	a	312	CHL	CHC-C1C	4.68	1.48	1.39
27	6	310	CHL	CHC-C1C	4.68	1.48	1.39
27	A	852	CHL	C3D-C2D	4.68	1.47	1.39
27	B	832	CHL	OBD-CAD	4.67	1.28	1.22
27	A	856	CHL	OBD-CAD	4.67	1.28	1.22
27	5	322	CHL	OBD-CAD	4.67	1.28	1.22
27	7	313	CHL	OBD-CAD	4.67	1.28	1.22
27	B	850	CHL	CHC-C1C	4.67	1.48	1.39
27	B	818	CHL	OBD-CAD	4.67	1.28	1.22
27	5	318	CHL	C3A-C2A	-4.67	1.50	1.54
27	4	311	CHL	CHC-C1C	4.67	1.48	1.39
27	A	830	CHL	OBD-CAD	4.67	1.28	1.22
27	3	309	CHL	CHC-C1C	4.67	1.48	1.39
27	5	309	CHL	OBD-CAD	4.67	1.28	1.22
27	L	304	CHL	CHC-C1C	4.67	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	6	315	CHL	CHD-C4C	4.67	1.48	1.39
27	B	813	CHL	CHC-C1C	4.67	1.48	1.39
27	B	837	CHL	CHD-C4C	4.67	1.48	1.39
27	4	314	CHL	CHD-C4C	4.66	1.48	1.39
27	B	834	CHL	C3D-C2D	4.66	1.47	1.39
27	B	849	CHL	CHC-C1C	4.66	1.48	1.39
27	B	847	CHL	CHC-C1C	4.66	1.48	1.39
27	b	313	CHL	CHC-C1C	4.66	1.48	1.39
27	b	304	CHL	CHC-C1C	4.66	1.48	1.39
27	5	309	CHL	CHD-C4C	4.66	1.48	1.39
27	8	322	CHL	OBD-CAD	4.66	1.28	1.22
27	7	319	CHL	O2D-CGD	4.66	1.44	1.33
27	K	205	CHL	CHC-C1C	4.66	1.48	1.39
27	a	318	CHL	OBD-CAD	4.66	1.28	1.22
27	A	818	CHL	OBD-CAD	4.66	1.28	1.22
27	A	828	CHL	OBD-CAD	4.66	1.28	1.22
27	3	317	CHL	OBD-CAD	4.66	1.28	1.22
27	B	820	CHL	CHC-C1C	4.66	1.48	1.39
27	7	323	CHL	MG-ND	4.66	2.15	2.05
27	4	314	CHL	OBD-CAD	4.66	1.28	1.22
27	B	844	CHL	CHD-C4C	4.65	1.48	1.39
27	B	834	CHL	O2D-CGD	4.65	1.44	1.33
27	7	322	CHL	CHB-C4A	-4.65	1.33	1.38
27	A	853	CHL	CHD-C4C	4.65	1.48	1.39
27	B	831	CHL	OBD-CAD	4.65	1.28	1.22
27	6	313	CHL	CHD-C4C	4.65	1.48	1.39
27	B	833	CHL	OBD-CAD	4.65	1.28	1.22
27	5	313	CHL	O2D-CGD	4.65	1.44	1.33
27	A	854	CHL	OBD-CAD	4.65	1.28	1.22
27	b	317	CHL	OBD-CAD	4.65	1.28	1.22
27	a	320	CHL	CHD-C4C	4.65	1.48	1.39
27	B	840	CHL	O2D-CGD	4.65	1.44	1.33
27	a	313	CHL	CHC-C1C	4.65	1.48	1.39
27	B	835	CHL	CHC-C1C	4.65	1.48	1.39
27	5	320	CHL	CHD-C4C	4.65	1.48	1.39
27	6	306	CHL	OBD-CAD	4.65	1.28	1.22
27	B	846	CHL	OBD-CAD	4.65	1.28	1.22
27	4	316	CHL	O2A-CGA	4.64	1.46	1.30
27	8	319	CHL	CHC-C1C	4.64	1.48	1.39
27	b	314	CHL	CHD-C4C	4.64	1.48	1.39
34	8	301	SQD	O48-C23	4.64	1.46	1.33
27	5	312	CHL	CHD-C4C	4.64	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	K	205	CHL	CHD-C4C	4.64	1.48	1.39
27	3	321	CHL	CHC-C1C	4.64	1.48	1.39
27	5	318	CHL	CHD-C4C	4.64	1.48	1.39
27	B	849	CHL	OBD-CAD	4.64	1.28	1.22
27	A	824	CHL	OBD-CAD	4.64	1.28	1.22
27	B	844	CHL	CHC-C1C	4.64	1.48	1.39
27	a	314	CHL	CHD-C4C	4.64	1.48	1.39
27	7	317	CHL	OBD-CAD	4.64	1.28	1.22
27	B	841	CHL	OBD-CAD	4.64	1.28	1.22
27	7	324	CHL	CHC-C1C	4.64	1.48	1.39
27	F	309	CHL	CHC-C1C	4.64	1.48	1.39
27	4	312	CHL	OBD-CAD	4.64	1.28	1.22
27	6	307	CHL	O2D-CGD	4.64	1.44	1.33
27	b	312	CHL	CHC-C1C	4.64	1.48	1.39
27	A	823	CHL	OBD-CAD	4.64	1.28	1.22
27	5	325	CHL	OBD-CAD	4.64	1.28	1.22
27	3	314	CHL	CHD-C4C	4.64	1.48	1.39
27	5	321	CHL	CHC-C1C	4.64	1.48	1.39
27	b	313	CHL	CHD-C4C	4.64	1.48	1.39
27	6	319	CHL	CHD-C1D	4.64	1.47	1.39
27	K	207	CHL	OBD-CAD	4.64	1.28	1.22
27	3	311	CHL	OBD-CAD	4.63	1.28	1.22
27	a	320	CHL	CHC-C1C	4.63	1.48	1.39
27	B	814	CHL	OBD-CAD	4.63	1.28	1.22
27	A	840	CHL	OBD-CAD	4.63	1.28	1.22
27	8	320	CHL	CHD-C4C	4.63	1.48	1.39
27	a	310	CHL	CHC-C1C	4.63	1.48	1.39
27	b	307	CHL	CHC-C1C	4.63	1.48	1.39
27	6	315	CHL	CHC-C1C	4.62	1.48	1.39
27	a	308	CHL	CHC-C1C	4.62	1.48	1.39
27	A	847	CHL	OBD-CAD	4.62	1.28	1.22
27	A	836	CHL	CHC-C1C	4.62	1.48	1.39
27	3	313	CHL	CHD-C4C	4.62	1.48	1.39
27	B	827	CHL	CHD-C4C	4.62	1.48	1.39
27	6	320	CHL	OBD-CAD	4.62	1.28	1.22
27	A	856	CHL	C3D-C2D	4.62	1.47	1.39
27	6	313	CHL	CHC-C1C	4.62	1.48	1.39
27	B	831	CHL	CHC-C1C	4.62	1.48	1.39
27	8	318	CHL	CHC-C1C	4.62	1.48	1.39
27	A	851	CHL	CHD-C4C	4.61	1.48	1.39
27	A	823	CHL	CHC-C1C	4.61	1.48	1.39
27	B	823	CHL	CHC-C1C	4.61	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	318	CHL	CHC-C1C	4.61	1.48	1.39
27	6	320	CHL	CHC-C1C	4.61	1.48	1.39
27	B	841	CHL	CHC-C1C	4.61	1.48	1.39
27	3	319	CHL	CHC-C1C	4.61	1.48	1.39
27	8	318	CHL	OBD-CAD	4.61	1.28	1.22
27	A	851	CHL	CHC-C1C	4.61	1.48	1.39
27	A	849	CHL	CHD-C4C	4.61	1.48	1.39
27	B	817	CHL	C3D-C2D	4.61	1.47	1.39
27	a	311	CHL	CHC-C1C	4.61	1.48	1.39
27	B	828	CHL	CHD-C4C	4.61	1.48	1.39
27	3	311	CHL	CHD-C4C	4.61	1.48	1.39
27	8	317	CHL	CHC-C1C	4.61	1.48	1.39
27	3	310	CHL	CHC-C1C	4.61	1.48	1.39
27	5	314	CHL	CHC-C1C	4.61	1.48	1.39
27	6	316	CHL	O2A-CGA	4.60	1.46	1.30
27	4	320	CHL	CHD-C4C	4.60	1.48	1.39
27	A	844	CHL	CHD-C4C	4.60	1.48	1.39
27	5	315	CHL	CHC-C1C	4.60	1.48	1.39
27	3	317	CHL	CHC-C1C	4.60	1.48	1.39
27	A	824	CHL	O2D-CGD	4.60	1.44	1.33
27	b	306	CHL	CHD-C4C	4.60	1.48	1.39
27	A	821	CHL	C3D-C2D	4.60	1.47	1.39
27	4	320	CHL	CHC-C1C	4.60	1.48	1.39
27	A	825	CHL	OBD-CAD	4.60	1.28	1.22
27	4	315	CHL	CHD-C4C	4.60	1.48	1.39
27	4	306	CHL	CHD-C4C	4.60	1.48	1.39
27	4	317	CHL	O2A-CGA	4.60	1.46	1.30
27	B	833	CHL	CHC-C1C	4.59	1.48	1.39
27	4	307	CHL	CHC-C1C	4.59	1.48	1.39
27	3	315	CHL	CHD-C4C	4.59	1.48	1.39
27	8	324	CHL	O1A-CGA	4.59	1.46	1.20
27	B	825	CHL	CHC-C1C	4.59	1.48	1.39
27	b	317	CHL	CHB-C4A	-4.59	1.33	1.38
27	a	310	CHL	MG-NB	4.59	2.14	2.05
27	5	314	CHL	CHD-C4C	4.59	1.48	1.39
27	4	316	CHL	OBD-CAD	4.59	1.28	1.22
27	5	321	CHL	CHD-C4C	4.59	1.48	1.39
27	3	315	CHL	OBD-CAD	4.59	1.28	1.22
27	7	316	CHL	CHC-C1C	4.59	1.48	1.39
27	A	826	CHL	CHD-C4C	4.59	1.48	1.39
27	4	306	CHL	CHC-C1C	4.59	1.48	1.39
27	6	306	CHL	CHC-C1C	4.59	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	a	309	CHL	CHD-C4C	4.59	1.48	1.39
27	6	309	CHL	MG-ND	-4.59	1.96	2.05
27	B	812	CHL	OBD-CAD	4.59	1.28	1.22
27	A	847	CHL	CHC-C1C	4.58	1.48	1.39
27	A	829	CHL	CHD-C4C	4.58	1.48	1.39
27	8	315	CHL	OBD-CAD	4.58	1.28	1.22
27	8	319	CHL	OBD-CAD	4.58	1.28	1.22
27	A	830	CHL	CHC-C1C	4.58	1.48	1.39
27	a	317	CHL	CHC-C1C	4.58	1.48	1.39
27	8	325	CHL	CHD-C4C	4.58	1.48	1.39
27	5	312	CHL	CHC-C1C	4.58	1.48	1.39
27	8	324	CHL	CHB-C4A	-4.58	1.33	1.38
27	B	840	CHL	CHD-C4C	4.58	1.48	1.39
27	A	822	CHL	CHD-C4C	4.58	1.48	1.39
27	A	826	CHL	CHC-C1C	4.58	1.48	1.39
27	A	858	CHL	CHC-C1C	4.58	1.48	1.39
27	b	309	CHL	CHC-C1C	4.58	1.48	1.39
27	7	311	CHL	CHC-C1C	4.58	1.48	1.39
27	6	318	CHL	OBD-CAD	4.58	1.28	1.22
27	A	855	CHL	CHC-C1C	4.58	1.48	1.39
27	B	822	CHL	CHC-C1C	4.58	1.48	1.39
27	a	318	CHL	CHB-C4A	-4.58	1.33	1.38
27	A	838	CHL	OBD-CAD	4.58	1.28	1.22
27	A	854	CHL	CHC-C1C	4.58	1.48	1.39
27	4	313	CHL	O2A-CGA	4.57	1.45	1.30
27	7	320	CHL	O2D-CGD	4.57	1.44	1.33
27	A	844	CHL	CHC-C1C	4.57	1.48	1.39
27	3	321	CHL	CHD-C4C	4.57	1.48	1.39
27	A	854	CHL	CHD-C4C	4.57	1.48	1.39
27	8	323	CHL	OBD-CAD	4.57	1.28	1.22
27	B	849	CHL	CHD-C4C	4.57	1.48	1.39
27	6	319	CHL	C3D-C4D	-4.57	1.34	1.41
27	B	839	CHL	CHD-C4C	4.57	1.48	1.39
27	3	319	CHL	CHD-C4C	4.57	1.48	1.39
27	6	320	CHL	CHD-C4C	4.57	1.48	1.39
27	B	833	CHL	CHD-C4C	4.56	1.48	1.39
27	B	818	CHL	CHD-C4C	4.56	1.48	1.39
27	A	834	CHL	OBD-CAD	4.56	1.28	1.22
27	4	309	CHL	OBD-CAD	4.56	1.28	1.22
27	A	832	CHL	CHC-C1C	4.56	1.48	1.39
27	A	849	CHL	CHC-C1C	4.56	1.48	1.39
27	a	313	CHL	CHD-C4C	4.56	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	836	CHL	OBD-CAD	4.56	1.28	1.22
27	8	311	CHL	CHC-C1C	4.56	1.48	1.39
27	3	320	CHL	OBD-CAD	4.56	1.28	1.22
27	A	837	CHL	CHC-C1C	4.56	1.48	1.39
27	A	835	CHL	CHD-C4C	4.56	1.48	1.39
27	B	815	CHL	CHC-C1C	4.56	1.48	1.39
27	B	830	CHL	C3D-C2D	4.56	1.47	1.39
27	B	826	CHL	CHC-C1C	4.56	1.48	1.39
27	4	317	CHL	OBD-CAD	4.56	1.28	1.22
27	B	829	CHL	CHD-C4C	4.56	1.48	1.39
27	4	305	CHL	CHC-C1C	4.56	1.48	1.39
27	5	318	CHL	CHC-C1C	4.56	1.48	1.39
27	3	315	CHL	CHC-C1C	4.56	1.48	1.39
27	8	312	CHL	OBD-CAD	4.56	1.28	1.22
27	6	319	CHL	C3D-C2D	4.55	1.47	1.39
27	8	316	CHL	CHC-C1C	4.55	1.48	1.39
27	B	831	CHL	CHD-C4C	4.55	1.48	1.39
27	A	848	CHL	CHC-C1C	4.55	1.48	1.39
27	3	310	CHL	CHD-C4C	4.55	1.48	1.39
27	B	811	CHL	C3A-C2A	-4.55	1.50	1.54
27	B	814	CHL	CHD-C4C	4.55	1.48	1.39
27	4	310	CHL	CHD-C4C	4.55	1.48	1.39
27	B	839	CHL	CHC-C1C	4.55	1.48	1.39
27	6	314	CHL	CHD-C4C	4.55	1.48	1.39
27	A	816	CHL	CHD-C4C	4.55	1.48	1.39
27	b	307	CHL	CHD-C4C	4.55	1.48	1.39
27	B	842	CHL	CHD-C4C	4.55	1.48	1.39
27	B	824	CHL	CHD-C4C	4.55	1.48	1.39
27	8	325	CHL	C3A-C2A	-4.55	1.50	1.54
27	a	317	CHL	CHD-C4C	4.54	1.48	1.39
27	B	828	CHL	OBD-CAD	4.54	1.28	1.22
27	6	309	CHL	CHC-C1C	4.54	1.48	1.39
27	B	832	CHL	CHC-C1C	4.54	1.48	1.39
27	7	315	CHL	OBD-CAD	4.54	1.28	1.22
27	A	848	CHL	CHD-C4C	4.54	1.48	1.39
27	B	838	CHL	CHD-C4C	4.54	1.48	1.39
27	L	304	CHL	O2A-CGA	4.54	1.45	1.30
27	7	313	CHL	CHC-C1C	4.54	1.48	1.39
27	B	837	CHL	CHC-C1C	4.54	1.48	1.39
27	6	311	CHL	CHD-C4C	4.54	1.48	1.39
27	6	317	CHL	O2D-CGD	4.54	1.44	1.33
27	A	820	CHL	OBD-CAD	4.54	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	7	318	CHL	CHD-C4C	4.54	1.48	1.39
27	A	823	CHL	CHD-C4C	4.54	1.48	1.39
27	F	309	CHL	CHD-C4C	4.54	1.48	1.39
27	5	314	CHL	O2A-CGA	4.54	1.45	1.30
27	A	859	CHL	CHC-C1C	4.53	1.48	1.39
27	8	319	CHL	CHD-C4C	4.53	1.48	1.39
27	3	321	CHL	O2A-CGA	4.53	1.45	1.30
27	b	304	CHL	CHD-C4C	4.53	1.48	1.39
27	a	311	CHL	CHD-C4C	4.53	1.48	1.39
27	A	828	CHL	CHC-C1C	4.53	1.48	1.39
27	A	819	CHL	OBD-CAD	4.53	1.28	1.22
27	7	323	CHL	MG-NB	4.53	2.14	2.05
27	8	320	CHL	CHC-C1C	4.53	1.48	1.39
27	A	825	CHL	CHC-C1C	4.53	1.48	1.39
27	3	308	CHL	CHC-C1C	4.53	1.48	1.39
27	5	323	CHL	CHD-C4C	4.53	1.48	1.39
27	3	311	CHL	CHC-C1C	4.53	1.48	1.39
27	7	316	CHL	CHD-C4C	4.53	1.48	1.39
27	A	829	CHL	CHC-C1C	4.53	1.48	1.39
27	8	325	CHL	CHC-C1C	4.53	1.48	1.39
27	A	832	CHL	OBD-CAD	4.53	1.28	1.22
27	B	812	CHL	CHC-C1C	4.53	1.48	1.39
27	A	839	CHL	CHD-C4C	4.53	1.48	1.39
27	6	305	CHL	CHC-C1C	4.53	1.48	1.39
27	6	310	CHL	CHD-C4C	4.53	1.48	1.39
27	A	838	CHL	CHC-C1C	4.52	1.48	1.39
27	B	843	CHL	O2A-CGA	4.52	1.45	1.30
27	4	317	CHL	CHB-C4A	-4.52	1.33	1.38
27	6	312	CHL	CHD-C4C	4.52	1.48	1.39
27	6	306	CHL	CHD-C4C	4.52	1.48	1.39
27	b	305	CHL	CHC-C1C	4.52	1.48	1.39
27	4	319	CHL	O2A-CGA	4.52	1.45	1.30
27	8	316	CHL	CHD-C4C	4.52	1.48	1.39
27	8	313	CHL	CHC-C1C	4.52	1.48	1.39
27	B	834	CHL	CHC-C1C	4.52	1.48	1.39
27	6	316	CHL	O2D-CGD	4.52	1.44	1.33
27	8	321	CHL	OBD-CAD	4.52	1.28	1.22
27	B	843	CHL	CHC-C1C	4.51	1.48	1.39
27	6	305	CHL	CHD-C4C	4.51	1.48	1.39
27	A	830	CHL	CHD-C4C	4.51	1.48	1.39
27	A	847	CHL	CHD-C4C	4.51	1.48	1.39
27	5	319	CHL	OBD-CAD	4.51	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	6	316	CHL	OBD-CAD	4.51	1.28	1.22
27	a	319	CHL	CHC-C1C	4.51	1.48	1.39
27	8	311	CHL	CHD-C4C	4.51	1.48	1.39
27	8	318	CHL	CHD-C4C	4.51	1.48	1.39
27	A	848	CHL	C3A-C2A	-4.51	1.50	1.54
27	7	312	CHL	CHC-C1C	4.51	1.48	1.39
27	A	839	CHL	CHC-C1C	4.51	1.48	1.39
27	4	305	CHL	CHD-C4C	4.51	1.48	1.39
27	7	319	CHL	CHB-C4A	-4.51	1.33	1.38
27	a	308	CHL	O2A-CGA	4.51	1.45	1.30
27	7	315	CHL	O2A-CGA	4.51	1.45	1.30
27	6	317	CHL	OBD-CAD	4.51	1.28	1.22
27	A	827	CHL	CHD-C4C	4.50	1.48	1.39
27	5	308	CHL	CHC-C1C	4.50	1.48	1.39
27	B	824	CHL	CHC-C1C	4.50	1.48	1.39
27	5	307	CHL	CHD-C4C	4.50	1.48	1.39
27	7	312	CHL	OBD-CAD	4.50	1.28	1.22
27	A	853	CHL	CHC-C1C	4.50	1.48	1.39
27	A	859	CHL	CHD-C4C	4.50	1.48	1.39
27	B	813	CHL	CHD-C4C	4.50	1.48	1.39
27	7	314	CHL	CHD-C4C	4.50	1.48	1.39
27	4	305	CHL	O2A-CGA	4.50	1.45	1.30
27	7	324	CHL	CHD-C4C	4.50	1.48	1.39
27	B	836	CHL	CHD-C4C	4.50	1.48	1.39
27	A	855	CHL	CHD-C4C	4.50	1.48	1.39
27	A	833	CHL	O2D-CGD	4.50	1.44	1.33
27	B	829	CHL	CHC-C1C	4.50	1.48	1.39
27	B	838	CHL	CHC-C1C	4.50	1.48	1.39
27	5	309	CHL	CHC-C1C	4.50	1.48	1.39
27	7	313	CHL	CHD-C4C	4.49	1.48	1.39
27	B	839	CHL	OBD-CAD	4.49	1.28	1.22
27	a	315	CHL	OBD-CAD	4.49	1.28	1.22
27	6	312	CHL	CHC-C1C	4.49	1.48	1.39
27	B	845	CHL	CHD-C4C	4.49	1.48	1.39
27	3	309	CHL	CHD-C4C	4.49	1.48	1.39
27	8	316	CHL	OBD-CAD	4.49	1.28	1.22
27	A	818	CHL	CHD-C4C	4.49	1.48	1.39
27	a	308	CHL	CHD-C4C	4.49	1.48	1.39
27	3	312	CHL	CHD-C4C	4.49	1.48	1.39
27	B	837	CHL	C3D-C2D	4.49	1.47	1.39
27	A	845	CHL	OBD-CAD	4.49	1.28	1.22
27	B	821	CHL	CHD-C4C	4.49	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	7	315	CHL	CHC-C1C	4.49	1.48	1.39
27	B	832	CHL	C3D-C2D	4.49	1.47	1.39
27	5	310	CHL	OBD-CAD	4.48	1.28	1.22
27	A	843	CHL	O2D-CGD	4.48	1.44	1.33
27	4	314	CHL	MG-ND	4.48	2.14	2.05
27	B	847	CHL	CHD-C4C	4.48	1.48	1.39
27	8	321	CHL	O2A-CGA	4.48	1.46	1.33
27	A	857	CHL	CHD-C4C	4.48	1.48	1.39
27	B	836	CHL	CHC-C1C	4.48	1.48	1.39
27	5	311	CHL	CHD-C4C	4.48	1.48	1.39
27	A	844	CHL	OBD-CAD	4.48	1.28	1.22
27	A	845	CHL	MG-ND	4.48	2.14	2.05
27	A	845	CHL	CHD-C4C	4.48	1.48	1.39
27	a	314	CHL	O2A-CGA	4.48	1.45	1.30
27	b	311	CHL	OBD-CAD	4.47	1.28	1.22
27	B	831	CHL	C3A-C2A	-4.47	1.50	1.54
27	J	106	CHL	CHD-C4C	4.47	1.48	1.39
27	3	318	CHL	CHD-C4C	4.47	1.48	1.39
27	8	322	CHL	CHD-C4C	4.47	1.48	1.39
27	7	319	CHL	OBD-CAD	4.47	1.28	1.22
27	A	845	CHL	C3A-C2A	-4.47	1.50	1.54
27	B	843	CHL	CHD-C4C	4.47	1.48	1.39
27	a	307	CHL	CHD-C4C	4.47	1.48	1.39
27	A	825	CHL	CHD-C4C	4.47	1.48	1.39
27	B	826	CHL	CHD-C4C	4.47	1.47	1.39
27	B	823	CHL	CHD-C4C	4.47	1.47	1.39
27	B	811	CHL	CHC-C1C	4.47	1.47	1.39
27	K	204	CHL	CHC-C1C	4.46	1.47	1.39
27	4	304	CHL	CHC-C1C	4.46	1.47	1.39
27	7	311	CHL	CHD-C4C	4.46	1.47	1.39
27	7	322	CHL	O2A-CGA	4.46	1.46	1.33
27	A	817	CHL	CHC-C1C	4.46	1.47	1.39
27	4	314	CHL	O2A-CGA	4.46	1.45	1.30
27	6	309	CHL	CHD-C4C	4.46	1.47	1.39
27	A	857	CHL	CHC-C1C	4.46	1.47	1.39
27	B	845	CHL	OBD-CAD	4.46	1.28	1.22
27	5	317	CHL	OBD-CAD	4.46	1.28	1.22
27	4	308	CHL	CHD-C4C	4.46	1.47	1.39
27	B	848	CHL	CHD-C4C	4.45	1.47	1.39
27	A	846	CHL	O2D-CGD	4.45	1.44	1.33
27	B	822	CHL	CHD-C4C	4.45	1.47	1.39
27	K	206	CHL	CHC-C1C	4.45	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	816	CHL	OBD-CAD	4.45	1.28	1.22
27	8	317	CHL	CHD-C4C	4.45	1.47	1.39
27	B	845	CHL	CHC-C1C	4.45	1.47	1.39
27	A	817	CHL	CHD-C4C	4.45	1.47	1.39
27	J	106	CHL	CHC-C1C	4.45	1.47	1.39
27	a	314	CHL	MG-ND	4.45	2.14	2.05
27	A	821	CHL	CHC-C1C	4.45	1.47	1.39
27	B	830	CHL	CHC-C1C	4.44	1.47	1.39
27	F	309	CHL	OBD-CAD	4.44	1.28	1.22
27	4	307	CHL	CHD-C4C	4.44	1.47	1.39
27	A	828	CHL	CHD-C4C	4.44	1.47	1.39
27	8	316	CHL	MG-ND	-4.44	1.97	2.05
27	A	834	CHL	CHD-C4C	4.44	1.47	1.39
27	3	317	CHL	CHD-C4C	4.43	1.47	1.39
27	A	837	CHL	CHD-C4C	4.43	1.47	1.39
27	5	313	CHL	OBD-CAD	4.43	1.28	1.22
27	B	816	CHL	CHD-C4C	4.43	1.47	1.39
27	B	828	CHL	CHC-C1C	4.43	1.47	1.39
27	8	324	CHL	OBD-CAD	4.43	1.28	1.22
27	A	856	CHL	CHC-C1C	4.43	1.47	1.39
27	a	309	CHL	CHC-C1C	4.43	1.47	1.39
27	B	821	CHL	CHC-C1C	4.43	1.47	1.39
27	A	856	CHL	CHD-C4C	4.43	1.47	1.39
27	B	832	CHL	CHD-C4C	4.43	1.47	1.39
27	B	846	CHL	CHC-C1C	4.42	1.47	1.39
27	8	322	CHL	CHC-C1C	4.42	1.47	1.39
27	6	319	CHL	CHC-C4B	4.42	1.46	1.39
27	3	313	CHL	CHC-C1C	4.42	1.47	1.39
27	F	308	CHL	CHC-C1C	4.42	1.47	1.39
27	A	821	CHL	MG-NB	4.42	2.14	2.05
27	5	311	CHL	CHC-C1C	4.42	1.47	1.39
27	B	816	CHL	CHC-C1C	4.42	1.47	1.39
27	B	842	CHL	CHC-C1C	4.42	1.47	1.39
27	7	312	CHL	O2A-CGA	4.42	1.45	1.30
27	5	317	CHL	O2D-CGD	4.42	1.44	1.33
27	5	311	CHL	OBD-CAD	4.41	1.28	1.22
27	b	317	CHL	CHB-C1B	4.41	1.46	1.39
27	A	824	CHL	CHC-C1C	4.41	1.47	1.39
27	4	304	CHL	CHD-C4C	4.41	1.47	1.39
27	A	833	CHL	OBD-CAD	4.41	1.28	1.22
27	A	836	CHL	CHD-C4C	4.41	1.47	1.39
27	B	851	CHL	CHD-C4C	4.41	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	834	CHL	CHC-C1C	4.41	1.47	1.39
27	A	833	CHL	MG-NB	-4.40	1.97	2.05
27	b	316	CHL	O2A-CGA	4.40	1.46	1.33
27	A	838	CHL	CHD-C4C	4.40	1.47	1.39
27	B	819	CHL	CHC-C1C	4.40	1.47	1.39
27	7	311	CHL	OBD-CAD	4.40	1.28	1.22
27	A	818	CHL	CHC-C1C	4.40	1.47	1.39
27	A	841	CHL	OBD-CAD	4.40	1.28	1.22
27	L	303	CHL	O2D-CGD	4.40	1.44	1.33
27	4	312	CHL	O2A-CGA	4.40	1.46	1.33
27	B	827	CHL	CHC-C1C	4.40	1.47	1.39
27	3	308	CHL	CHD-C4C	4.40	1.47	1.39
27	A	835	CHL	CHC-C1C	4.40	1.47	1.39
27	A	850	CHL	CHD-C4C	4.39	1.47	1.39
27	a	318	CHL	CHB-C1B	4.39	1.46	1.39
27	B	835	CHL	CHD-C4C	4.39	1.47	1.39
27	8	326	CHL	OBD-CAD	4.39	1.28	1.22
27	A	840	CHL	CHD-C4C	4.39	1.47	1.39
27	a	318	CHL	O2A-CGA	4.39	1.46	1.33
27	B	819	CHL	MG-ND	-4.39	1.97	2.05
27	7	317	CHL	CHC-C1C	4.39	1.47	1.39
27	8	326	CHL	CHC-C1C	4.39	1.47	1.39
27	A	858	CHL	CHD-C4C	4.39	1.47	1.39
27	B	846	CHL	CHD-C4C	4.39	1.47	1.39
27	a	310	CHL	CHD-C4C	4.39	1.47	1.39
27	A	841	CHL	O2D-CGD	4.38	1.44	1.33
27	5	308	CHL	CHD-C4C	4.38	1.47	1.39
27	a	316	CHL	O2A-CGA	4.38	1.46	1.33
27	A	847	CHL	O2A-CGA	4.38	1.46	1.33
27	A	853	CHL	OBD-CAD	4.38	1.28	1.22
27	B	844	CHL	OBD-CAD	4.38	1.28	1.22
27	3	320	CHL	CHD-C4C	4.38	1.47	1.39
27	A	852	CHL	CHD-C4C	4.38	1.47	1.39
27	A	852	CHL	C3A-C2A	-4.38	1.50	1.54
27	A	850	CHL	CHC-C1C	4.37	1.47	1.39
27	b	315	CHL	CHD-C4C	4.37	1.47	1.39
27	7	322	CHL	OBD-CAD	4.37	1.28	1.22
27	B	830	CHL	CHD-C4C	4.36	1.47	1.39
27	4	308	CHL	CHC-C1C	4.36	1.47	1.39
27	B	823	CHL	OBD-CAD	4.36	1.28	1.22
27	B	819	CHL	CHD-C4C	4.36	1.47	1.39
27	A	820	CHL	CHD-C4C	4.36	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	7	315	CHL	CHD-C4C	4.36	1.47	1.39
27	5	310	CHL	CHD-C4C	4.36	1.47	1.39
27	A	821	CHL	CHD-C4C	4.36	1.47	1.39
27	B	825	CHL	CHD-C4C	4.36	1.47	1.39
27	a	315	CHL	O2A-CGA	4.36	1.46	1.33
27	8	312	CHL	CHD-C4C	4.35	1.47	1.39
27	B	820	CHL	O2A-CGA	4.35	1.46	1.33
27	3	310	CHL	O2A-CGA	4.35	1.46	1.33
27	3	312	CHL	CHC-C1C	4.35	1.47	1.39
27	7	318	CHL	CHC-C1C	4.35	1.47	1.39
27	8	314	CHL	OBD-CAD	4.34	1.28	1.22
27	B	848	CHL	O2A-CGA	4.34	1.46	1.33
27	B	850	CHL	CHD-C4C	4.34	1.47	1.39
27	A	846	CHL	O2A-CGA	4.34	1.46	1.33
27	b	317	CHL	O2A-CGA	4.34	1.46	1.33
27	b	316	CHL	CHB-C1B	4.34	1.46	1.39
27	7	317	CHL	CHD-C4C	4.34	1.47	1.39
27	A	840	CHL	CHC-C1C	4.33	1.47	1.39
27	6	308	CHL	OBD-CAD	4.33	1.28	1.22
27	A	819	CHL	CHD-C4C	4.33	1.47	1.39
27	8	313	CHL	CHD-C4C	4.33	1.47	1.39
27	5	322	CHL	CHB-C1B	4.33	1.46	1.39
27	7	321	CHL	OBD-CAD	4.32	1.28	1.22
27	B	846	CHL	MG-NB	-4.32	1.97	2.05
27	4	312	CHL	CHB-C1B	4.32	1.46	1.39
27	7	322	CHL	CHB-C1B	4.31	1.46	1.39
27	6	310	CHL	OBD-CAD	4.31	1.28	1.22
27	6	307	CHL	C1A-CHA	4.31	1.44	1.40
27	B	839	CHL	O2A-CGA	4.31	1.45	1.33
27	K	204	CHL	O2A-CGA	4.31	1.45	1.33
27	4	320	CHL	O2A-CGA	4.31	1.45	1.33
27	8	326	CHL	CHD-C4C	4.31	1.47	1.39
27	A	816	CHL	OBD-CAD	4.31	1.27	1.22
27	B	812	CHL	CHD-C4C	4.31	1.47	1.39
27	L	303	CHL	OBD-CAD	4.31	1.27	1.22
27	6	308	CHL	CHC-C4B	4.31	1.46	1.39
27	A	852	CHL	CHC-C1C	4.30	1.47	1.39
27	B	826	CHL	O2A-CGA	4.30	1.45	1.33
27	8	315	CHL	CHD-C4C	4.30	1.47	1.39
27	3	308	CHL	OBD-CAD	4.29	1.27	1.22
27	3	312	CHL	C3A-C2A	-4.29	1.51	1.54
27	A	845	CHL	CHC-C1C	4.29	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	4	308	CHL	O2A-CGA	4.29	1.45	1.33
27	B	816	CHL	O2A-CGA	4.29	1.45	1.33
27	B	841	CHL	CHD-C4C	4.29	1.47	1.39
27	8	317	CHL	MG-ND	4.29	2.14	2.05
27	F	309	CHL	O2A-CGA	4.29	1.45	1.33
27	3	310	CHL	MG-ND	-4.29	1.97	2.05
27	5	307	CHL	O2A-CGA	4.29	1.45	1.33
27	3	317	CHL	MG-ND	4.29	2.14	2.05
27	4	313	CHL	C3B-C2B	4.29	1.46	1.40
27	5	325	CHL	CHB-C1B	4.29	1.46	1.39
27	6	312	CHL	MG-ND	4.29	2.14	2.05
27	8	324	CHL	CHB-C1B	4.29	1.46	1.39
27	A	842	CHL	O2A-CGA	4.29	1.45	1.33
27	A	859	CHL	OBD-CAD	4.28	1.27	1.22
27	6	309	CHL	O2A-CGA	4.28	1.45	1.33
27	F	308	CHL	CHD-C4C	4.28	1.47	1.39
27	A	834	CHL	CHB-C4A	-4.28	1.33	1.38
27	7	319	CHL	CHB-C1B	4.28	1.46	1.39
27	8	314	CHL	O2A-CGA	4.28	1.45	1.33
27	4	304	CHL	O2A-CGA	4.28	1.45	1.33
27	A	844	CHL	MG-ND	-4.28	1.97	2.05
27	4	315	CHL	O2A-CGA	4.27	1.45	1.33
27	6	317	CHL	CHB-C1B	4.27	1.46	1.39
27	b	307	CHL	O2A-CGA	4.27	1.45	1.33
27	A	837	CHL	O2A-CGA	4.27	1.45	1.33
27	5	323	CHL	CHC-C1C	4.27	1.47	1.39
27	6	318	CHL	O2A-CGA	4.27	1.46	1.33
27	6	315	CHL	O2A-CGA	4.27	1.45	1.33
27	B	823	CHL	O2A-CGA	4.27	1.45	1.33
27	3	318	CHL	MG-ND	4.27	2.14	2.05
27	B	815	CHL	CHD-C4C	4.26	1.47	1.39
27	a	316	CHL	CHB-C1B	4.26	1.46	1.39
27	K	204	CHL	CHD-C4C	4.26	1.47	1.39
27	B	837	CHL	O2A-CGA	4.26	1.45	1.33
27	8	312	CHL	O2A-CGA	4.26	1.45	1.33
27	6	313	CHL	O2A-CGA	4.26	1.45	1.33
27	A	850	CHL	C3A-C2A	-4.26	1.51	1.54
27	A	833	CHL	O2A-CGA	4.26	1.45	1.33
27	b	311	CHL	CHB-C1B	4.26	1.46	1.39
27	a	307	CHL	O2A-CGA	4.26	1.45	1.33
27	A	826	CHL	O2A-CGA	4.25	1.45	1.33
27	A	832	CHL	CHD-C4C	4.25	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	318	CHL	O2A-CGA	4.25	1.45	1.33
27	A	831	CHL	O2D-CGD	4.25	1.43	1.33
27	7	320	CHL	O2A-CGA	4.25	1.46	1.33
27	a	313	CHL	O2A-CGA	4.25	1.45	1.33
27	8	317	CHL	O2A-CGA	4.25	1.45	1.33
27	8	321	CHL	CHB-C1B	4.25	1.46	1.39
27	7	312	CHL	CHD-C4C	4.25	1.47	1.39
27	5	312	CHL	O2A-CGA	4.25	1.45	1.33
27	a	309	CHL	O2A-CGA	4.25	1.45	1.33
27	7	319	CHL	O2A-CGA	4.25	1.45	1.33
27	b	315	CHL	O2A-CGA	4.24	1.45	1.33
27	B	841	CHL	O2A-CGA	4.24	1.45	1.33
26	A	815	CL0	O2D-CGD	4.24	1.43	1.33
27	b	317	CHL	CHC-C4B	4.24	1.46	1.39
27	A	858	CHL	O2A-CGA	4.24	1.45	1.33
27	A	824	CHL	CHD-C4C	4.24	1.47	1.39
27	A	821	CHL	OBD-CAD	4.24	1.27	1.22
27	8	313	CHL	O2A-CGA	4.24	1.45	1.33
27	A	854	CHL	O2A-CGA	4.24	1.45	1.33
27	3	320	CHL	O2A-CGA	4.24	1.45	1.33
27	4	309	CHL	CHB-C1B	4.23	1.46	1.39
27	B	834	CHL	C3A-C2A	-4.23	1.51	1.54
27	5	323	CHL	O2A-CGA	4.23	1.45	1.33
27	A	821	CHL	C3A-C2A	-4.23	1.51	1.54
27	5	325	CHL	MG-NB	-4.23	1.97	2.05
27	5	316	CHL	CHC-C4B	4.23	1.46	1.39
27	5	319	CHL	CHB-C1B	4.23	1.46	1.39
27	8	314	CHL	CHB-C1B	4.23	1.46	1.39
27	b	311	CHL	O2A-CGA	4.23	1.46	1.33
27	a	312	CHL	O2A-CGA	4.23	1.45	1.33
27	7	316	CHL	O2A-CGA	4.23	1.45	1.33
27	B	811	CHL	CHD-C4C	4.23	1.47	1.39
27	A	849	CHL	O2A-CGA	4.23	1.45	1.33
27	5	318	CHL	O2A-CGA	4.23	1.45	1.33
27	8	322	CHL	O2A-CGA	4.23	1.45	1.33
27	B	824	CHL	O2A-CGA	4.23	1.45	1.33
27	6	317	CHL	O2A-CGA	4.22	1.46	1.33
27	3	313	CHL	O2A-CGA	4.22	1.45	1.33
27	A	838	CHL	O2A-CGA	4.22	1.45	1.33
27	K	207	CHL	O2A-CGA	4.22	1.46	1.33
27	3	319	CHL	O2A-CGA	4.22	1.45	1.33
27	B	825	CHL	OBD-CAD	4.22	1.27	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	308	CHL	O2A-CGA	4.22	1.45	1.33
27	a	315	CHL	CHB-C1B	4.22	1.46	1.39
27	B	846	CHL	O2A-CGA	4.22	1.45	1.33
27	A	839	CHL	O2A-CGA	4.22	1.45	1.33
27	3	316	CHL	OBD-CAD	4.22	1.27	1.22
27	4	309	CHL	O2A-CGA	4.22	1.46	1.33
27	5	322	CHL	O2A-CGA	4.21	1.46	1.33
27	6	318	CHL	CHB-C1B	4.21	1.46	1.39
27	4	311	CHL	O2A-CGA	4.21	1.45	1.33
27	B	821	CHL	O2A-CGA	4.21	1.45	1.33
27	7	320	CHL	OBD-CAD	4.21	1.27	1.22
27	A	841	CHL	O2A-CGA	4.21	1.45	1.33
27	7	321	CHL	O2A-CGA	4.21	1.46	1.33
27	B	829	CHL	O2A-CGA	4.21	1.45	1.33
27	5	319	CHL	O2A-CGA	4.21	1.46	1.33
27	B	830	CHL	O2A-CGA	4.21	1.45	1.33
27	3	311	CHL	O2A-CGA	4.20	1.45	1.33
27	B	847	CHL	O2A-CGA	4.20	1.45	1.33
27	5	313	CHL	O2A-CGA	4.20	1.45	1.33
27	B	818	CHL	O2A-CGA	4.20	1.45	1.33
27	a	319	CHL	O2A-CGA	4.20	1.45	1.33
27	B	817	CHL	CHD-C4C	4.19	1.47	1.39
27	5	317	CHL	O2A-CGA	4.19	1.46	1.33
27	5	316	CHL	C3B-C2B	4.19	1.46	1.40
27	6	308	CHL	C3D-C2D	4.19	1.46	1.39
27	7	318	CHL	O2A-CGA	4.19	1.45	1.33
27	6	308	CHL	CHD-C4C	4.19	1.47	1.39
27	A	845	CHL	O2A-CGA	4.19	1.45	1.33
27	8	325	CHL	O2A-CGA	4.19	1.45	1.33
27	a	311	CHL	O2A-CGA	4.19	1.45	1.33
27	4	307	CHL	O2A-CGA	4.19	1.45	1.33
27	B	815	CHL	O2A-CGA	4.19	1.45	1.33
27	B	836	CHL	O2A-CGA	4.19	1.45	1.33
27	B	819	CHL	O2A-CGA	4.19	1.45	1.33
27	7	311	CHL	O2A-CGA	4.18	1.45	1.33
27	a	318	CHL	CHC-C4B	4.18	1.46	1.39
27	B	825	CHL	O2A-CGA	4.18	1.45	1.33
27	3	316	CHL	O2A-CGA	4.18	1.45	1.33
27	5	309	CHL	O2A-CGA	4.18	1.45	1.33
27	L	303	CHL	C1A-CHA	4.18	1.44	1.40
27	B	838	CHL	O2A-CGA	4.18	1.45	1.33
27	4	312	CHL	CHC-C4B	4.18	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	4	308	CHL	OBD-CAD	4.17	1.27	1.22
27	A	818	CHL	O2A-CGA	4.17	1.45	1.33
27	B	850	CHL	O2A-CGA	4.17	1.45	1.33
27	5	315	CHL	O2A-CGA	4.17	1.45	1.33
27	3	312	CHL	OBD-CAD	4.17	1.27	1.22
27	5	316	CHL	O2A-CGA	4.17	1.45	1.33
27	B	833	CHL	O2A-CGA	4.17	1.45	1.33
27	7	317	CHL	O2A-CGA	4.17	1.45	1.33
27	3	319	CHL	MG-ND	-4.17	1.97	2.05
27	a	317	CHL	O2A-CGA	4.17	1.45	1.33
27	K	206	CHL	O2A-CGA	4.17	1.45	1.33
27	A	855	CHL	C3A-C2A	-4.17	1.51	1.54
27	A	825	CHL	C3A-C2A	-4.16	1.51	1.54
27	5	325	CHL	O2A-CGA	4.16	1.45	1.33
27	4	313	CHL	C3A-C2A	-4.16	1.51	1.54
27	B	827	CHL	CHB-C4A	-4.16	1.33	1.38
27	A	836	CHL	CHB-C4A	-4.16	1.33	1.38
27	3	317	CHL	O2A-CGA	4.16	1.45	1.33
27	B	831	CHL	O2A-CGA	4.16	1.45	1.33
27	a	310	CHL	O2A-CGA	4.16	1.45	1.33
27	b	313	CHL	O2A-CGA	4.16	1.45	1.33
27	B	848	CHL	CHC-C1C	4.16	1.47	1.39
27	5	320	CHL	O2A-CGA	4.16	1.45	1.33
27	B	813	CHL	O2A-CGA	4.16	1.45	1.33
27	B	844	CHL	C3A-C2A	-4.16	1.51	1.54
27	B	834	CHL	OBD-CAD	4.16	1.27	1.22
29	4	302	LUT	C8-C9	4.16	1.54	1.46
27	B	842	CHL	O2A-CGA	4.16	1.45	1.33
27	b	310	CHL	O2A-CGA	4.16	1.45	1.33
27	8	319	CHL	O2A-CGA	4.16	1.45	1.33
27	A	827	CHL	O2A-CGA	4.15	1.45	1.33
27	b	305	CHL	O2A-CGA	4.15	1.45	1.33
27	3	314	CHL	O2A-CGA	4.15	1.45	1.33
27	B	849	CHL	O2A-CGA	4.15	1.45	1.33
27	B	834	CHL	CHD-C4C	4.15	1.47	1.39
27	b	304	CHL	O2A-CGA	4.15	1.45	1.33
27	5	310	CHL	O2A-CGA	4.15	1.45	1.33
27	A	829	CHL	O2A-CGA	4.15	1.45	1.33
27	5	317	CHL	CHC-C4B	4.15	1.46	1.39
27	K	205	CHL	O2A-CGA	4.15	1.45	1.33
27	A	852	CHL	O2A-CGA	4.15	1.45	1.33
29	4	302	LUT	C35-C34	4.15	1.56	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	836	CHL	OBD-CAD	4.14	1.27	1.22
27	8	318	CHL	O2A-CGA	4.14	1.45	1.33
27	6	318	CHL	CHC-C4B	4.14	1.46	1.39
27	b	316	CHL	CHC-C4B	4.14	1.46	1.39
27	5	311	CHL	O2A-CGA	4.14	1.45	1.33
27	b	317	CHL	CHD-C4C	4.14	1.47	1.39
27	A	825	CHL	O2A-CGA	4.14	1.45	1.33
27	6	311	CHL	O2A-CGA	4.14	1.45	1.33
27	B	828	CHL	C3A-C2A	-4.14	1.51	1.54
27	B	850	CHL	C3A-C2A	-4.14	1.51	1.54
27	4	310	CHL	O2A-CGA	4.14	1.45	1.33
27	A	830	CHL	O2A-CGA	4.14	1.45	1.33
27	A	823	CHL	O2A-CGA	4.14	1.45	1.33
27	a	320	CHL	O2A-CGA	4.14	1.45	1.33
27	A	857	CHL	O2A-CGA	4.14	1.45	1.33
27	B	845	CHL	O2A-CGA	4.14	1.45	1.33
27	B	827	CHL	O2A-CGA	4.14	1.45	1.33
27	b	312	CHL	O2A-CGA	4.14	1.45	1.33
27	B	837	CHL	C3A-C2A	-4.13	1.51	1.54
27	6	319	CHL	C3A-C2A	-4.13	1.51	1.54
27	B	844	CHL	O2A-CGA	4.13	1.45	1.33
27	B	817	CHL	CHC-C1C	4.13	1.47	1.39
27	4	316	CHL	CHB-C1B	4.13	1.46	1.39
27	5	322	CHL	CHC-C4B	4.13	1.46	1.39
27	6	307	CHL	O2A-CGA	4.13	1.45	1.33
27	7	314	CHL	O2A-CGA	4.13	1.45	1.33
27	8	311	CHL	O2A-CGA	4.13	1.45	1.33
27	A	852	CHL	OBD-CAD	4.13	1.27	1.22
27	8	312	CHL	MG-NB	-4.13	1.97	2.05
27	b	309	CHL	O2A-CGA	4.13	1.45	1.33
27	8	314	CHL	CHC-C4B	4.13	1.46	1.39
27	b	306	CHL	O2A-CGA	4.13	1.45	1.33
27	A	817	CHL	O2A-CGA	4.13	1.45	1.33
27	5	307	CHL	C3A-C2A	-4.12	1.51	1.54
27	8	320	CHL	O2A-CGA	4.12	1.45	1.33
27	6	310	CHL	O2A-CGA	4.12	1.45	1.33
27	B	834	CHL	O2A-CGA	4.12	1.45	1.33
27	A	850	CHL	O2A-CGA	4.12	1.45	1.33
27	6	314	CHL	O2A-CGA	4.12	1.45	1.33
27	8	326	CHL	O2A-CGA	4.12	1.45	1.33
27	B	851	CHL	O2A-CGA	4.12	1.45	1.33
27	A	835	CHL	O2A-CGA	4.12	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	8	303	LUT	C35-C34	4.12	1.55	1.43
27	K	207	CHL	CHB-C1B	4.12	1.46	1.39
27	A	853	CHL	O2A-CGA	4.12	1.45	1.33
27	8	316	CHL	O2A-CGA	4.11	1.45	1.33
27	5	307	CHL	CHB-C4A	-4.11	1.33	1.38
27	A	821	CHL	O2A-CGA	4.11	1.45	1.33
27	A	824	CHL	O2A-CGA	4.11	1.45	1.33
27	6	316	CHL	CHB-C1B	4.11	1.46	1.39
27	a	317	CHL	MG-NB	-4.11	1.97	2.05
27	3	315	CHL	C3A-C2A	-4.11	1.51	1.54
27	4	309	CHL	CHD-C4C	4.11	1.47	1.39
27	8	319	CHL	MG-NB	4.11	2.13	2.05
27	4	313	CHL	CHC-C1C	4.11	1.47	1.39
27	6	320	CHL	O2A-CGA	4.11	1.45	1.33
27	A	828	CHL	O2A-CGA	4.11	1.45	1.33
27	7	322	CHL	CHC-C4B	4.10	1.46	1.39
27	b	314	CHL	O2A-CGA	4.10	1.45	1.33
27	3	315	CHL	O2A-CGA	4.10	1.45	1.33
27	4	306	CHL	O2A-CGA	4.10	1.45	1.33
27	B	815	CHL	C3A-C2A	-4.10	1.51	1.54
27	A	819	CHL	O2A-CGA	4.10	1.45	1.33
27	6	312	CHL	O2A-CGA	4.10	1.45	1.33
29	5	303	LUT	C8-C9	4.10	1.54	1.46
27	B	832	CHL	O2A-CGA	4.10	1.45	1.33
27	b	311	CHL	CHC-C4B	4.10	1.46	1.39
27	5	319	CHL	CHC-C4B	4.09	1.46	1.39
27	5	321	CHL	O2A-CGA	4.09	1.45	1.33
27	B	833	CHL	C3A-C2A	-4.09	1.51	1.54
27	5	311	CHL	C3A-C2A	-4.09	1.51	1.54
29	6	302	LUT	C35-C34	4.09	1.55	1.43
27	A	851	CHL	O2A-CGA	4.09	1.45	1.33
27	3	312	CHL	O2A-CGA	4.09	1.45	1.33
27	7	320	CHL	CHB-C1B	4.09	1.46	1.39
27	b	316	CHL	CHD-C4C	4.08	1.47	1.39
27	5	321	CHL	MG-NB	-4.08	1.97	2.05
27	8	324	CHL	CHC-C4B	4.08	1.46	1.39
27	B	822	CHL	O2A-CGA	4.08	1.45	1.33
27	8	323	CHL	O2A-CGA	4.08	1.45	1.33
27	7	324	CHL	O2A-CGA	4.08	1.45	1.33
27	7	323	CHL	C3A-C2A	-4.08	1.51	1.54
27	B	815	CHL	OBD-CAD	4.08	1.27	1.22
27	B	828	CHL	O2A-CGA	4.08	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	841	CHL	C3A-C2A	-4.08	1.51	1.54
27	4	316	CHL	CHD-C4C	4.08	1.47	1.39
27	A	820	CHL	C3A-C2A	-4.08	1.51	1.54
27	6	305	CHL	O2A-CGA	4.07	1.45	1.33
27	A	848	CHL	O2A-CGA	4.07	1.45	1.33
27	8	316	CHL	C3A-C2A	-4.07	1.51	1.54
27	A	840	CHL	MG-NB	4.07	2.13	2.05
27	B	817	CHL	O2A-CGA	4.07	1.45	1.33
27	4	304	CHL	CHB-C4A	-4.07	1.33	1.38
27	F	308	CHL	O2A-CGA	4.07	1.45	1.33
27	A	822	CHL	C3A-C2A	-4.07	1.51	1.54
27	B	818	CHL	CHC-C1C	4.07	1.47	1.39
27	B	814	CHL	O2A-CGA	4.07	1.45	1.33
27	4	312	CHL	CHD-C4C	4.07	1.47	1.39
27	3	310	CHL	C3A-C2A	-4.06	1.51	1.54
27	K	207	CHL	CHD-C4C	4.06	1.47	1.39
27	7	321	CHL	O2D-CGD	4.06	1.43	1.33
27	5	316	CHL	O2D-CGD	4.06	1.43	1.33
27	3	309	CHL	O2A-CGA	4.06	1.45	1.33
27	4	316	CHL	CHC-C4B	4.06	1.46	1.39
27	6	317	CHL	CHD-C4C	4.06	1.47	1.39
27	A	840	CHL	O2A-CGA	4.05	1.45	1.33
27	A	832	CHL	O2A-CGA	4.05	1.45	1.33
27	a	318	CHL	CHD-C4C	4.05	1.47	1.39
27	a	316	CHL	CHC-C4B	4.05	1.46	1.39
27	5	325	CHL	CHC-C4B	4.05	1.46	1.39
27	A	826	CHL	C3A-C2A	-4.05	1.51	1.54
27	A	822	CHL	O2A-CGA	4.05	1.45	1.33
27	B	818	CHL	MG-NB	-4.05	1.97	2.05
29	F	303	LUT	C8-C9	4.05	1.54	1.46
27	4	313	CHL	CHB-C4A	-4.05	1.33	1.38
27	8	315	CHL	O2A-CGA	4.05	1.45	1.33
27	a	315	CHL	CHC-C4B	4.05	1.46	1.39
27	6	319	CHL	CHB-C4A	-4.04	1.33	1.38
27	5	308	CHL	O2A-CGA	4.04	1.45	1.33
27	A	842	CHL	CHB-C1B	4.04	1.46	1.39
27	B	836	CHL	C3A-C2A	-4.04	1.51	1.54
27	7	320	CHL	CHC-C4B	4.04	1.46	1.39
27	b	311	CHL	CHD-C4C	4.04	1.47	1.39
29	J	103	LUT	C35-C34	4.04	1.55	1.43
27	7	313	CHL	O2A-CGA	4.04	1.45	1.33
27	A	833	CHL	CHC-C4B	4.04	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	a	311	CHL	MG-NB	4.04	2.13	2.05
27	A	816	CHL	O2A-CGA	4.04	1.45	1.33
27	4	308	CHL	C3A-C2A	-4.04	1.51	1.54
27	A	839	CHL	C3A-C2A	-4.03	1.51	1.54
27	B	835	CHL	O2A-CGA	4.03	1.45	1.33
27	8	321	CHL	CHC-C4B	4.03	1.46	1.39
27	A	833	CHL	CHD-C4C	4.03	1.47	1.39
27	a	315	CHL	CHD-C4C	4.03	1.47	1.39
27	6	305	CHL	C3A-C2A	-4.03	1.51	1.54
27	A	836	CHL	C3A-C2A	-4.02	1.51	1.54
27	6	306	CHL	O2A-CGA	4.02	1.45	1.33
27	7	323	CHL	O2A-CGA	4.02	1.45	1.33
27	A	834	CHL	O2A-CGA	4.02	1.45	1.33
27	7	320	CHL	MG-NB	-4.02	1.97	2.05
27	b	316	CHL	C3B-C2B	4.02	1.45	1.40
27	6	308	CHL	CHB-C1B	4.02	1.46	1.39
27	7	311	CHL	CHB-C4A	-4.02	1.33	1.38
27	8	312	CHL	CHB-C4A	-4.02	1.33	1.38
27	B	840	CHL	O2A-CGA	4.01	1.45	1.33
27	a	316	CHL	CHD-C4C	4.01	1.47	1.39
27	A	819	CHL	C3A-C2A	-4.01	1.51	1.54
27	A	856	CHL	O2A-CGA	4.01	1.45	1.33
27	8	323	CHL	C3D-C4D	-4.01	1.35	1.41
27	B	811	CHL	O2A-CGA	4.01	1.45	1.33
27	K	207	CHL	CHC-C4B	4.01	1.46	1.39
27	A	843	CHL	O2A-CGA	4.00	1.45	1.33
27	A	855	CHL	O2A-CGA	4.00	1.45	1.33
27	b	308	CHL	O2A-CGA	4.00	1.45	1.33
27	A	859	CHL	O2A-CGA	4.00	1.45	1.33
27	3	316	CHL	CHB-C1B	4.00	1.46	1.39
27	A	817	CHL	CHB-C4A	-4.00	1.33	1.38
27	3	316	CHL	CHC-C4B	4.00	1.46	1.39
29	6	303	LUT	C8-C9	4.00	1.54	1.46
27	b	317	CHL	C3B-C2B	4.00	1.45	1.40
27	A	820	CHL	O2A-CGA	4.00	1.45	1.33
27	5	322	CHL	CHD-C4C	4.00	1.47	1.39
27	3	311	CHL	C3A-C2A	-4.00	1.51	1.54
27	5	310	CHL	C3A-C2A	-4.00	1.51	1.54
27	6	311	CHL	C3A-C2A	-4.00	1.51	1.54
27	5	317	CHL	CHD-C4C	4.00	1.47	1.39
27	4	314	CHL	C3A-C2A	-3.99	1.51	1.54
27	B	817	CHL	C3A-C2A	-3.99	1.51	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	831	CHL	O2A-CGA	3.99	1.45	1.33
27	7	322	CHL	CHD-C4C	3.99	1.47	1.39
29	5	302	LUT	C35-C34	3.99	1.55	1.43
27	B	812	CHL	O2A-CGA	3.98	1.45	1.33
27	7	321	CHL	CHC-C4B	3.98	1.46	1.39
29	a	304	LUT	C35-C34	3.98	1.55	1.43
29	b	301	LUT	C35-C34	3.98	1.55	1.43
27	4	309	CHL	CHD-C1D	3.98	1.46	1.39
27	3	317	CHL	C3A-C2A	-3.98	1.51	1.54
27	A	842	CHL	CHC-C4B	3.98	1.46	1.39
27	B	842	CHL	C3A-C2A	-3.98	1.51	1.54
27	A	844	CHL	CHB-C4A	-3.98	1.33	1.38
27	B	828	CHL	CHB-C4A	-3.98	1.33	1.38
27	A	855	CHL	MG-ND	-3.98	1.97	2.05
27	3	308	CHL	CHB-C4A	-3.98	1.33	1.38
27	8	316	CHL	CHB-C4A	-3.98	1.33	1.38
27	b	308	CHL	C3D-C4D	-3.98	1.35	1.41
27	A	856	CHL	C3A-C2A	-3.97	1.51	1.54
27	A	831	CHL	OBD-CAD	3.97	1.27	1.22
29	8	304	LUT	C35-C34	3.97	1.55	1.43
27	A	854	CHL	C3A-C2A	-3.97	1.51	1.54
27	5	317	CHL	CHB-C1B	3.96	1.46	1.39
27	6	316	CHL	CHD-C4C	3.96	1.47	1.39
27	6	318	CHL	CHD-C4C	3.96	1.47	1.39
27	8	320	CHL	C3A-C2A	-3.96	1.51	1.54
27	B	849	CHL	C3A-C2A	-3.96	1.51	1.54
27	4	309	CHL	CHC-C4B	3.96	1.46	1.39
27	6	308	CHL	CHD-C1D	3.96	1.46	1.39
27	B	812	CHL	CHB-C4A	-3.95	1.33	1.38
27	a	307	CHL	CHB-C4A	-3.95	1.33	1.38
27	6	308	CHL	CHC-C1C	3.95	1.46	1.39
27	8	318	CHL	C3A-C2A	-3.95	1.51	1.54
27	A	850	CHL	MG-NB	-3.95	1.98	2.05
27	B	822	CHL	C3A-C2A	-3.95	1.51	1.54
27	A	836	CHL	O2A-CGA	3.95	1.44	1.33
27	B	850	CHL	OBD-CAD	3.95	1.27	1.22
27	8	324	CHL	CHD-C4C	3.95	1.46	1.39
27	5	325	CHL	CHD-C4C	3.95	1.46	1.39
27	b	316	CHL	CHD-C1D	3.94	1.46	1.39
27	7	323	CHL	CHB-C4A	-3.94	1.33	1.38
27	4	305	CHL	C3A-C2A	-3.94	1.51	1.54
27	A	857	CHL	C3A-C2A	-3.94	1.51	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	836	CHL	CHB-C4A	-3.94	1.33	1.38
27	5	316	CHL	OBD-CAD	3.94	1.27	1.22
27	A	828	CHL	CHB-C4A	-3.93	1.33	1.38
27	6	318	CHL	C3B-C2B	3.93	1.45	1.40
27	5	311	CHL	CHB-C4A	-3.93	1.33	1.38
27	A	844	CHL	C3A-C2A	-3.93	1.51	1.54
27	7	324	CHL	C3A-C2A	-3.93	1.51	1.54
29	4	301	LUT	C35-C34	3.93	1.55	1.43
27	5	316	CHL	CHC-C1C	3.93	1.46	1.39
27	A	824	CHL	C3A-C2A	-3.93	1.51	1.54
27	a	314	CHL	C3A-C2A	-3.93	1.51	1.54
27	7	319	CHL	CHC-C4B	3.93	1.46	1.39
27	5	315	CHL	C3A-C2A	-3.93	1.51	1.54
27	3	316	CHL	CHD-C4C	3.93	1.46	1.39
27	B	851	CHL	C3A-C2A	-3.92	1.51	1.54
27	K	206	CHL	CHB-C4A	-3.92	1.33	1.38
27	A	842	CHL	OBD-CAD	3.92	1.27	1.22
27	6	312	CHL	C3A-C2A	-3.92	1.51	1.54
27	5	319	CHL	CHD-C4C	3.92	1.46	1.39
27	A	844	CHL	O2A-CGA	3.92	1.44	1.33
27	B	815	CHL	CHB-C4A	-3.91	1.33	1.38
27	a	316	CHL	C3B-C2B	3.91	1.45	1.40
27	6	316	CHL	CHC-C4B	3.91	1.45	1.39
27	6	317	CHL	CHC-C4B	3.91	1.45	1.39
27	A	841	CHL	CHD-C4C	3.90	1.46	1.39
27	7	321	CHL	CHD-C4C	3.90	1.46	1.39
27	7	323	CHL	CHC-C1C	3.90	1.46	1.39
27	B	814	CHL	C3A-C2A	-3.90	1.51	1.54
27	A	831	CHL	C3B-C2B	3.90	1.45	1.40
29	6	303	LUT	C35-C34	3.90	1.55	1.43
27	A	833	CHL	CHB-C1B	3.90	1.45	1.39
27	7	314	CHL	C3A-C2A	-3.90	1.51	1.54
27	A	841	CHL	CHC-C4B	3.89	1.45	1.39
27	b	307	CHL	C3A-C2A	-3.89	1.51	1.54
27	4	306	CHL	MG-NB	-3.89	1.98	2.05
29	5	303	LUT	C35-C34	3.89	1.55	1.43
27	4	307	CHL	C3A-C2A	-3.89	1.51	1.54
27	a	308	CHL	C3A-C2A	-3.89	1.51	1.54
27	6	307	CHL	OBD-CAD	3.88	1.27	1.22
27	A	830	CHL	C3A-C2A	-3.88	1.51	1.54
27	8	315	CHL	C3A-C2A	-3.88	1.51	1.54
29	7	304	LUT	C35-C34	3.88	1.55	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	a	319	CHL	C3A-C2A	-3.88	1.51	1.54
27	5	311	CHL	MG-ND	-3.88	1.98	2.05
27	B	824	CHL	C3A-C2A	-3.88	1.51	1.54
27	B	819	CHL	C3A-C2A	-3.88	1.51	1.54
27	5	314	CHL	C3A-C2A	-3.88	1.51	1.54
27	A	822	CHL	CHB-C4A	-3.88	1.34	1.38
27	5	316	CHL	CHB-C1B	3.88	1.45	1.39
27	K	205	CHL	C3A-C2A	-3.87	1.51	1.54
29	3	304	LUT	C31-C30	3.87	1.55	1.43
27	B	825	CHL	C3A-C2A	-3.87	1.51	1.54
27	K	207	CHL	CHD-C1D	3.87	1.45	1.39
29	4	302	LUT	C15-C14	3.87	1.55	1.43
27	7	317	CHL	C3A-C2A	-3.87	1.51	1.54
27	8	322	CHL	C3A-C2A	-3.87	1.51	1.54
27	A	849	CHL	C3A-C2A	-3.87	1.51	1.54
27	B	839	CHL	CHB-C4A	-3.87	1.34	1.38
27	K	207	CHL	C3B-C2B	3.87	1.45	1.40
27	8	314	CHL	CHD-C4C	3.87	1.46	1.39
27	7	319	CHL	C3B-C2B	3.87	1.45	1.40
27	6	308	CHL	O2A-CGA	3.87	1.44	1.33
27	L	303	CHL	O2A-CGA	3.87	1.44	1.33
29	8	304	LUT	C8-C9	3.87	1.54	1.46
27	4	316	CHL	CHD-C1D	3.87	1.45	1.39
29	3	305	LUT	C35-C34	3.86	1.55	1.43
29	4	302	LUT	C31-C30	3.86	1.55	1.43
29	F	303	LUT	C35-C34	3.86	1.55	1.43
27	A	847	CHL	CHB-C4A	-3.86	1.34	1.38
27	3	309	CHL	C3A-C2A	-3.86	1.51	1.54
29	4	301	LUT	C31-C30	3.86	1.55	1.43
27	a	318	CHL	C3B-C2B	3.86	1.45	1.40
27	A	823	CHL	C3A-C2A	-3.86	1.51	1.54
27	a	311	CHL	C3A-C2A	-3.86	1.51	1.54
27	A	857	CHL	MG-NB	-3.86	1.98	2.05
27	5	325	CHL	C3B-C2B	3.86	1.45	1.40
27	5	308	CHL	C3A-C2A	-3.86	1.51	1.54
29	b	301	LUT	C31-C30	3.85	1.55	1.43
29	8	303	LUT	C15-C14	3.85	1.55	1.43
27	A	858	CHL	C3A-C2A	-3.85	1.51	1.54
27	6	306	CHL	C3A-C2A	-3.85	1.51	1.54
27	6	309	CHL	C3A-C2A	-3.85	1.51	1.54
27	7	322	CHL	C3B-C2B	3.85	1.45	1.40
27	7	320	CHL	CHD-C4C	3.85	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	a	304	LUT	C8-C9	3.85	1.54	1.46
27	B	818	CHL	C3A-C2A	-3.85	1.51	1.54
29	b	301	LUT	C8-C9	3.85	1.54	1.46
27	5	316	CHL	CHD-C4C	3.84	1.46	1.39
27	A	823	CHL	CHB-C4A	-3.84	1.34	1.38
29	a	302	LUT	C35-C34	3.84	1.55	1.43
27	A	825	CHL	CHB-C4A	-3.84	1.34	1.38
27	4	307	CHL	CHB-C4A	-3.84	1.34	1.38
29	J	103	LUT	C31-C30	3.84	1.55	1.43
27	b	317	CHL	CHD-C1D	3.84	1.45	1.39
29	a	304	LUT	C31-C30	3.84	1.55	1.43
29	J	103	LUT	C15-C14	3.84	1.55	1.43
27	B	812	CHL	C3A-C2A	-3.84	1.51	1.54
27	A	842	CHL	C3B-C2B	3.84	1.45	1.40
27	A	850	CHL	CHB-C4A	-3.84	1.34	1.38
27	4	309	CHL	C3B-C2B	3.84	1.45	1.40
27	a	310	CHL	C3A-C2A	-3.83	1.51	1.54
29	3	304	LUT	C35-C34	3.83	1.55	1.43
27	7	321	CHL	CHB-C1B	3.83	1.45	1.39
27	A	838	CHL	C3A-C2A	-3.83	1.51	1.54
27	A	859	CHL	C3A-C2A	-3.82	1.51	1.54
27	B	846	CHL	C3A-C2A	-3.82	1.51	1.54
27	a	309	CHL	C3A-C2A	-3.82	1.51	1.54
27	5	317	CHL	C3B-C2B	3.82	1.45	1.40
27	3	312	CHL	CHB-C4A	-3.82	1.34	1.38
27	A	841	CHL	C3B-C2B	3.82	1.45	1.40
27	7	321	CHL	C3B-C2B	3.82	1.45	1.40
27	3	308	CHL	C3A-C2A	-3.82	1.51	1.54
27	b	317	CHL	CHC-C1C	3.82	1.46	1.39
27	a	308	CHL	CHB-C4A	-3.82	1.34	1.38
27	A	818	CHL	C3A-C2A	-3.82	1.51	1.54
27	8	323	CHL	CHD-C1D	3.82	1.45	1.39
27	b	311	CHL	C3B-C2B	3.82	1.45	1.40
27	3	320	CHL	C3A-C2A	-3.81	1.51	1.54
27	a	313	CHL	C3A-C2A	-3.81	1.51	1.54
27	4	317	CHL	CHD-C1D	3.81	1.45	1.39
29	3	305	LUT	C31-C30	3.81	1.55	1.43
27	7	319	CHL	CHD-C4C	3.81	1.46	1.39
27	A	854	CHL	CHB-C4A	-3.81	1.34	1.38
27	7	318	CHL	C3A-C2A	-3.81	1.51	1.54
27	A	849	CHL	CHB-C4A	-3.81	1.34	1.38
27	B	833	CHL	CHB-C4A	-3.80	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	317	CHL	CHB-C4A	-3.80	1.34	1.38
27	A	832	CHL	C3A-C2A	-3.80	1.51	1.54
27	B	838	CHL	CHB-C4A	-3.80	1.34	1.38
27	8	321	CHL	CHD-C4C	3.80	1.46	1.39
27	B	828	CHL	CHA-CBD	-3.80	1.47	1.51
27	7	313	CHL	MG-ND	3.79	2.13	2.05
27	6	314	CHL	MG-ND	-3.79	1.98	2.05
29	6	302	LUT	C15-C14	3.79	1.54	1.43
29	6	303	LUT	C31-C30	3.79	1.54	1.43
27	5	319	CHL	CHD-C1D	3.79	1.45	1.39
27	B	816	CHL	C3A-C2A	-3.79	1.51	1.54
27	7	312	CHL	C3A-C2A	-3.79	1.51	1.54
27	7	315	CHL	C3A-C2A	-3.79	1.51	1.54
27	B	829	CHL	C3A-C2A	-3.79	1.51	1.54
27	5	322	CHL	CHD-C1D	3.79	1.45	1.39
29	J	103	LUT	C11-C10	3.79	1.54	1.43
29	b	301	LUT	C15-C14	3.78	1.54	1.43
27	8	313	CHL	C3A-C2A	-3.78	1.51	1.54
29	5	302	LUT	C8-C9	3.78	1.54	1.46
29	4	302	LUT	C11-C10	3.78	1.54	1.43
27	A	851	CHL	C3A-C2A	-3.78	1.51	1.54
27	A	854	CHL	MG-ND	3.78	2.13	2.05
27	a	307	CHL	C3A-C2A	-3.78	1.51	1.54
27	a	315	CHL	C3B-C2B	3.78	1.45	1.40
27	B	841	CHL	CHB-C4A	-3.78	1.34	1.38
27	6	316	CHL	CHC-C1C	3.78	1.46	1.39
27	5	322	CHL	C3B-C2B	3.77	1.45	1.40
27	B	838	CHL	C3A-C2A	-3.77	1.51	1.54
29	4	301	LUT	C15-C14	3.77	1.54	1.43
26	A	815	CL0	O2A-CGA	3.77	1.44	1.33
29	J	103	LUT	C8-C9	3.77	1.54	1.46
29	a	302	LUT	C31-C30	3.77	1.54	1.43
27	6	317	CHL	C3B-C2B	3.77	1.45	1.40
27	B	821	CHL	C3A-C2A	-3.77	1.51	1.54
27	b	310	CHL	C3A-C2A	-3.77	1.51	1.54
27	4	314	CHL	CHB-C4A	-3.77	1.34	1.38
27	5	316	CHL	C3D-C2D	3.77	1.46	1.39
27	A	839	CHL	CHB-C4A	-3.77	1.34	1.38
27	A	847	CHL	C3A-C2A	-3.77	1.51	1.54
27	A	819	CHL	CHB-C4A	-3.77	1.34	1.38
27	B	834	CHL	CHB-C4A	-3.77	1.34	1.38
27	4	317	CHL	CHC-C1C	3.77	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	5	317	CHL	CHC-C1C	3.77	1.46	1.39
27	8	314	CHL	C3B-C2B	3.77	1.45	1.40
27	K	204	CHL	C3A-C2A	-3.76	1.51	1.54
27	A	828	CHL	C3A-C2A	-3.76	1.51	1.54
27	8	315	CHL	CHB-C4A	-3.76	1.34	1.38
27	8	319	CHL	C3A-C2A	-3.76	1.51	1.54
29	7	304	LUT	C7-C6	3.76	1.57	1.45
27	B	822	CHL	CHB-C4A	-3.76	1.34	1.38
27	4	308	CHL	MG-NB	-3.76	1.98	2.05
27	A	829	CHL	C3A-C2A	-3.76	1.51	1.54
27	B	813	CHL	C3A-C2A	-3.76	1.51	1.54
27	F	309	CHL	C3A-C2A	-3.76	1.51	1.54
27	8	321	CHL	C3B-C2B	3.76	1.45	1.40
27	4	319	CHL	CHB-C4A	-3.75	1.34	1.38
29	5	302	LUT	C31-C30	3.75	1.54	1.43
29	7	304	LUT	C31-C30	3.75	1.54	1.43
27	a	314	CHL	CHB-C4A	-3.75	1.34	1.38
27	6	306	CHL	CHB-C4A	-3.75	1.34	1.38
27	a	318	CHL	CHD-C1D	3.75	1.45	1.39
29	6	302	LUT	C8-C9	3.75	1.54	1.46
29	6	302	LUT	C28-C29	3.75	1.54	1.46
29	6	302	LUT	C31-C30	3.75	1.54	1.43
29	5	302	LUT	C15-C14	3.75	1.54	1.43
27	a	316	CHL	CHD-C1D	3.75	1.45	1.39
27	8	324	CHL	C3B-C2B	3.75	1.45	1.40
27	8	320	CHL	CHB-C4A	-3.75	1.34	1.38
27	4	315	CHL	C3A-C2A	-3.74	1.51	1.54
27	A	826	CHL	CHB-C4A	-3.74	1.34	1.38
27	b	306	CHL	C3A-C2A	-3.74	1.51	1.54
29	4	302	LUT	C28-C29	3.74	1.54	1.46
27	B	847	CHL	MG-NB	-3.74	1.98	2.05
27	8	325	CHL	CHB-C4A	-3.74	1.34	1.38
27	J	106	CHL	C3A-C2A	-3.74	1.51	1.54
27	B	843	CHL	CHB-C4A	-3.74	1.34	1.38
27	A	841	CHL	CHC-C1C	3.74	1.46	1.39
27	a	311	CHL	CHB-C4A	-3.74	1.34	1.38
27	a	320	CHL	C3A-C2A	-3.73	1.51	1.54
27	5	309	CHL	C3A-C2A	-3.73	1.51	1.54
27	B	851	CHL	CHB-C4A	-3.73	1.34	1.38
27	a	317	CHL	CHB-C4A	-3.73	1.34	1.38
27	b	310	CHL	CHB-C4A	-3.73	1.34	1.38
27	A	833	CHL	CHC-C1C	3.73	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	a	318	CHL	CHC-C1C	3.73	1.46	1.39
27	b	311	CHL	CHD-C1D	3.73	1.45	1.39
27	A	829	CHL	CHB-C4A	-3.73	1.34	1.38
29	a	302	LUT	C8-C9	3.73	1.53	1.46
29	8	304	LUT	C15-C14	3.73	1.54	1.43
27	6	316	CHL	C3B-C2B	3.73	1.45	1.40
27	8	322	CHL	CHB-C4A	-3.73	1.34	1.38
27	7	324	CHL	CHB-C4A	-3.72	1.34	1.38
29	4	302	LUT	C12-C13	3.72	1.53	1.46
27	A	853	CHL	C3A-C2A	-3.72	1.51	1.54
27	8	311	CHL	C3A-C2A	-3.72	1.51	1.54
27	a	316	CHL	CHC-C1C	3.72	1.46	1.39
29	3	304	LUT	C8-C9	3.72	1.53	1.46
27	4	304	CHL	C3A-C2A	-3.72	1.51	1.54
29	a	304	LUT	C28-C29	3.72	1.53	1.46
27	3	321	CHL	C3A-C2A	-3.72	1.51	1.54
27	b	316	CHL	CHC-C1C	3.72	1.46	1.39
29	a	304	LUT	C15-C14	3.72	1.54	1.43
27	A	846	CHL	C3B-C2B	3.72	1.45	1.40
27	B	817	CHL	CHB-C4A	-3.72	1.34	1.38
27	B	813	CHL	CHB-C4A	-3.71	1.34	1.38
29	F	303	LUT	C31-C30	3.71	1.54	1.43
27	B	830	CHL	C3A-C2A	-3.71	1.51	1.54
29	4	302	LUT	C32-C33	3.71	1.53	1.46
27	4	316	CHL	C3B-C2B	3.71	1.45	1.40
27	5	312	CHL	CHB-C4A	-3.71	1.34	1.38
29	6	302	LUT	C32-C33	3.71	1.53	1.46
27	4	312	CHL	CHD-C1D	3.71	1.45	1.39
27	L	303	CHL	C3B-C2B	3.71	1.45	1.40
29	F	303	LUT	C15-C14	3.71	1.54	1.43
27	b	311	CHL	CHC-C1C	3.71	1.46	1.39
27	6	317	CHL	CHD-C1D	3.71	1.45	1.39
27	A	843	CHL	C3B-C2B	3.71	1.45	1.40
27	B	831	CHL	CHB-C4A	-3.71	1.34	1.38
27	3	315	CHL	CHB-C4A	-3.71	1.34	1.38
27	7	320	CHL	C3B-C2B	3.70	1.45	1.40
27	K	207	CHL	CHC-C1C	3.70	1.46	1.39
27	4	314	CHL	CHA-CBD	-3.70	1.47	1.51
27	A	848	CHL	CHB-C4A	-3.70	1.34	1.38
27	5	319	CHL	C3B-C2B	3.70	1.45	1.40
29	5	303	LUT	C11-C10	3.70	1.54	1.43
27	8	321	CHL	CHC-C1C	3.70	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	8	312	CHL	C3A-C2A	-3.70	1.51	1.54
29	6	303	LUT	C15-C14	3.70	1.54	1.43
27	7	316	CHL	C3A-C2A	-3.69	1.51	1.54
27	A	830	CHL	CHB-C4A	-3.69	1.34	1.38
27	4	310	CHL	CHB-C4A	-3.69	1.34	1.38
27	6	320	CHL	C3A-C2A	-3.69	1.51	1.54
27	b	306	CHL	CHB-C4A	-3.69	1.34	1.38
29	b	301	LUT	C11-C10	3.69	1.54	1.43
27	6	314	CHL	C3A-C2A	-3.69	1.51	1.54
27	a	313	CHL	CHB-C4A	-3.69	1.34	1.38
27	8	314	CHL	CHC-C1C	3.68	1.46	1.39
27	6	318	CHL	CHD-C1D	3.68	1.45	1.39
27	A	859	CHL	CHB-C4A	-3.68	1.34	1.38
27	A	842	CHL	CHD-C4C	3.68	1.46	1.39
27	B	819	CHL	CHB-C4A	-3.68	1.34	1.38
27	B	820	CHL	C3A-C2A	-3.68	1.51	1.54
27	A	822	CHL	MG-ND	3.68	2.13	2.05
29	4	301	LUT	C8-C9	3.67	1.53	1.46
27	B	826	CHL	C3A-C2A	-3.67	1.51	1.54
27	8	319	CHL	CHB-C4A	-3.67	1.34	1.38
29	J	103	LUT	C12-C13	3.67	1.53	1.46
27	3	313	CHL	C3A-C2A	-3.67	1.51	1.54
27	6	320	CHL	MG-NB	-3.67	1.98	2.05
27	4	308	CHL	CHB-C4A	-3.67	1.34	1.38
27	a	312	CHL	CHB-C4A	-3.67	1.34	1.38
27	a	315	CHL	CHD-C1D	3.67	1.45	1.39
34	8	301	SQD	O47-C45	-3.67	1.38	1.46
27	a	315	CHL	CHC-C1C	3.67	1.46	1.39
27	7	315	CHL	CHB-C4A	-3.67	1.34	1.38
22	3	302	BCR	C1-C6	-3.67	1.49	1.53
27	7	320	CHL	CHD-C1D	3.67	1.45	1.39
27	8	324	CHL	CHD-C1D	3.67	1.45	1.39
27	b	305	CHL	CHB-C4A	-3.67	1.34	1.38
29	a	302	LUT	C15-C14	3.66	1.54	1.43
27	B	830	CHL	MG-NB	3.66	2.13	2.05
29	7	304	LUT	C15-C14	3.66	1.54	1.43
27	A	846	CHL	OBD-CAD	3.66	1.27	1.22
27	4	309	CHL	CHC-C1C	3.66	1.46	1.39
27	4	309	CHL	C3D-C2D	3.66	1.45	1.39
27	4	313	CHL	CHD-C1D	3.66	1.45	1.39
27	A	816	CHL	C3A-C2A	-3.65	1.51	1.54
27	A	835	CHL	C3A-C2A	-3.65	1.51	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	b	301	LUT	C28-C29	3.65	1.53	1.46
27	7	316	CHL	CHB-C4A	-3.65	1.34	1.38
27	A	820	CHL	CHB-C4A	-3.65	1.34	1.38
29	8	303	LUT	C31-C30	3.65	1.54	1.43
27	7	321	CHL	CHC-C1C	3.65	1.46	1.39
27	B	846	CHL	CHB-C4A	-3.65	1.34	1.38
27	8	311	CHL	CHB-C4A	-3.65	1.34	1.38
27	5	325	CHL	CHC-C1C	3.65	1.46	1.39
27	B	818	CHL	CHB-C4A	-3.65	1.34	1.38
27	5	307	CHL	MG-NB	-3.65	1.98	2.05
27	6	315	CHL	CHB-C4A	-3.65	1.34	1.38
29	8	303	LUT	C8-C9	3.65	1.53	1.46
29	J	103	LUT	C32-C33	3.65	1.53	1.46
27	A	833	CHL	C3B-C2B	3.65	1.45	1.40
27	4	312	CHL	CHC-C1C	3.65	1.46	1.39
27	4	320	CHL	MG-NB	3.65	2.13	2.05
27	6	305	CHL	CHB-C4A	-3.65	1.34	1.38
27	B	839	CHL	C3A-C2A	-3.65	1.51	1.54
27	B	837	CHL	CHB-C4A	-3.64	1.34	1.38
26	A	815	CL0	OBD-CAD	3.64	1.27	1.22
29	6	302	LUT	C11-C10	3.64	1.54	1.43
27	A	842	CHL	CHC-C1C	3.64	1.46	1.39
27	5	317	CHL	CHD-C1D	3.64	1.45	1.39
27	L	304	CHL	C3A-C2A	-3.64	1.51	1.54
26	A	815	CL0	C3B-C2B	3.64	1.45	1.40
27	B	841	CHL	MG-NB	3.64	2.13	2.05
27	B	840	CHL	CHA-CBD	-3.64	1.47	1.51
27	3	314	CHL	CHB-C4A	-3.64	1.34	1.38
27	6	320	CHL	CHB-C4A	-3.64	1.34	1.38
27	4	315	CHL	CHB-C4A	-3.63	1.34	1.38
29	a	304	LUT	C32-C33	3.63	1.53	1.46
27	3	318	CHL	C3A-C2A	-3.63	1.51	1.54
27	6	316	CHL	CHD-C1D	3.63	1.45	1.39
27	b	315	CHL	CHB-C4A	-3.63	1.34	1.38
27	A	833	CHL	CHD-C1D	3.63	1.45	1.39
27	B	850	CHL	CHB-C4A	-3.63	1.34	1.38
27	a	320	CHL	CHB-C4A	-3.63	1.34	1.38
27	b	304	CHL	CHB-C4A	-3.63	1.34	1.38
27	4	312	CHL	C3B-C2B	3.63	1.45	1.40
29	3	304	LUT	C15-C14	3.63	1.54	1.43
29	3	305	LUT	C15-C14	3.63	1.54	1.43
27	8	317	CHL	C3A-C2A	-3.63	1.51	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	7	324	CHL	MG-ND	-3.62	1.98	2.05
29	4	301	LUT	C28-C29	3.62	1.53	1.46
27	3	320	CHL	CHB-C4A	-3.62	1.34	1.38
27	5	318	CHL	CHB-C4A	-3.62	1.34	1.38
27	7	322	CHL	CHD-C1D	3.62	1.45	1.39
27	B	844	CHL	CHB-C4A	-3.62	1.34	1.38
29	5	303	LUT	C31-C30	3.62	1.54	1.43
27	8	314	CHL	CHD-C1D	3.62	1.45	1.39
27	A	827	CHL	CHB-C4A	-3.62	1.34	1.38
27	3	321	CHL	CHB-C4A	-3.62	1.34	1.38
27	5	322	CHL	CHC-C1C	3.62	1.46	1.39
27	B	820	CHL	CHB-C4A	-3.62	1.34	1.38
27	7	322	CHL	CHC-C1C	3.62	1.46	1.39
27	a	310	CHL	CHB-C4A	-3.62	1.34	1.38
27	6	318	CHL	CHC-C1C	3.62	1.46	1.39
27	5	319	CHL	CHC-C1C	3.61	1.46	1.39
27	A	837	CHL	C3A-C2A	-3.61	1.51	1.54
29	5	302	LUT	C11-C10	3.61	1.54	1.43
27	A	841	CHL	CHB-C1B	3.61	1.45	1.39
27	B	814	CHL	CHB-C4A	-3.61	1.34	1.38
29	4	301	LUT	C11-C10	3.61	1.54	1.43
27	b	316	CHL	C3D-C2D	3.61	1.45	1.39
27	4	316	CHL	CHC-C1C	3.61	1.46	1.39
27	B	847	CHL	CHB-C4A	-3.61	1.34	1.38
29	6	303	LUT	C11-C10	3.60	1.54	1.43
27	B	846	CHL	CHA-CBD	-3.60	1.47	1.51
27	7	311	CHL	CHA-CBD	-3.60	1.47	1.51
27	7	311	CHL	C3A-C2A	-3.60	1.51	1.54
27	8	326	CHL	C3A-C2A	-3.60	1.51	1.54
27	b	317	CHL	C3D-C2D	3.60	1.45	1.39
27	4	305	CHL	CHB-C4A	-3.60	1.34	1.38
29	8	304	LUT	C31-C30	3.60	1.54	1.43
27	3	316	CHL	CHC-C1C	3.60	1.46	1.39
27	B	842	CHL	CHB-C4A	-3.60	1.34	1.38
27	B	832	CHL	CHB-C4A	-3.60	1.34	1.38
29	a	304	LUT	C11-C10	3.59	1.54	1.43
27	5	325	CHL	CHD-C1D	3.59	1.45	1.39
27	6	312	CHL	CHB-C4A	-3.59	1.34	1.38
27	A	827	CHL	C3A-C2A	-3.59	1.51	1.54
27	F	308	CHL	C3A-C2A	-3.59	1.51	1.54
27	3	319	CHL	C3A-C2A	-3.59	1.51	1.54
27	6	315	CHL	C3A-C2A	-3.59	1.51	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	7	319	CHL	CHC-C1C	3.59	1.46	1.39
27	3	311	CHL	MG-NB	-3.59	1.98	2.05
27	5	320	CHL	CHB-C4A	-3.59	1.34	1.38
27	B	843	CHL	C3A-C2A	-3.58	1.51	1.54
27	5	316	CHL	CHD-C1D	3.58	1.45	1.39
27	7	317	CHL	CHB-C4A	-3.58	1.34	1.38
29	7	304	LUT	C8-C9	3.58	1.53	1.46
27	A	855	CHL	CHB-C4A	-3.58	1.34	1.38
27	4	311	CHL	CHB-C4A	-3.58	1.34	1.38
27	a	316	CHL	C3D-C2D	3.58	1.45	1.39
27	7	314	CHL	CHB-C4A	-3.58	1.34	1.38
29	6	302	LUT	C12-C13	3.58	1.53	1.46
27	a	319	CHL	CHB-C4A	-3.58	1.34	1.38
27	A	831	CHL	CHC-C4B	3.58	1.45	1.39
29	b	301	LUT	C32-C33	3.58	1.53	1.46
27	B	820	CHL	CHA-CBD	-3.57	1.47	1.51
27	A	835	CHL	CHB-C4A	-3.57	1.34	1.38
29	F	303	LUT	C28-C29	3.57	1.53	1.46
27	7	320	CHL	CHC-C1C	3.57	1.46	1.39
29	3	304	LUT	C32-C33	3.57	1.53	1.46
27	A	845	CHL	CHB-C4A	-3.57	1.34	1.38
29	8	303	LUT	C11-C10	3.57	1.54	1.43
29	8	303	LUT	C12-C13	3.57	1.53	1.46
27	4	318	CHL	CHB-C4A	-3.57	1.34	1.38
27	B	848	CHL	C3A-C2A	-3.57	1.51	1.54
27	A	838	CHL	CHB-C4A	-3.57	1.34	1.38
29	F	303	LUT	C12-C13	3.56	1.53	1.46
27	6	307	CHL	C3B-C2B	3.56	1.45	1.40
27	a	309	CHL	CHB-C4A	-3.56	1.34	1.38
27	4	306	CHL	CHB-C4A	-3.56	1.34	1.38
29	J	103	LUT	C28-C29	3.56	1.53	1.46
27	3	310	CHL	CHB-C4A	-3.56	1.34	1.38
27	B	832	CHL	C3A-C2A	-3.56	1.51	1.54
27	A	834	CHL	C3A-C2A	-3.55	1.51	1.54
27	B	849	CHL	CHB-C4A	-3.55	1.34	1.38
27	3	309	CHL	CHB-C4A	-3.55	1.34	1.38
27	8	324	CHL	CHC-C1C	3.55	1.46	1.39
27	b	315	CHL	CHA-CBD	-3.55	1.47	1.51
29	a	302	LUT	C11-C10	3.55	1.54	1.43
27	A	836	CHL	CHA-CBD	-3.55	1.47	1.51
22	I	801	BCR	C1-C6	-3.55	1.49	1.53
27	B	827	CHL	CHA-CBD	-3.55	1.47	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	4	316	CHL	C3D-C2D	3.54	1.45	1.39
27	4	320	CHL	CHB-C4A	-3.54	1.34	1.38
27	8	318	CHL	CHB-C4A	-3.54	1.34	1.38
27	3	314	CHL	C3A-C2A	-3.54	1.51	1.54
29	6	302	LUT	C26-C27	3.54	1.55	1.50
29	5	303	LUT	C15-C14	3.54	1.54	1.43
29	F	303	LUT	C11-C10	3.54	1.54	1.43
29	5	302	LUT	C12-C13	3.54	1.53	1.46
27	b	314	CHL	CHB-C4A	-3.54	1.34	1.38
27	B	821	CHL	CHB-C4A	-3.54	1.34	1.38
27	7	319	CHL	CHD-C1D	3.54	1.45	1.39
29	6	303	LUT	C32-C33	3.54	1.53	1.46
27	6	316	CHL	C3D-C2D	3.53	1.45	1.39
29	4	301	LUT	C12-C13	3.53	1.53	1.46
27	7	321	CHL	CHD-C1D	3.53	1.45	1.39
27	B	849	CHL	MG-NB	3.53	2.12	2.05
29	4	302	LUT	C7-C6	3.53	1.57	1.45
27	4	311	CHL	C3A-C2A	-3.53	1.51	1.54
29	3	305	LUT	C28-C29	3.53	1.53	1.46
22	B	803	BCR	C30-C25	-3.53	1.49	1.53
22	M	102	BCR	C1-C6	-3.53	1.49	1.53
27	3	316	CHL	CHD-C1D	3.53	1.45	1.39
27	6	318	CHL	C3D-C2D	3.52	1.45	1.39
27	B	825	CHL	CHB-C4A	-3.52	1.34	1.38
27	B	826	CHL	CHB-C4A	-3.52	1.34	1.38
27	6	313	CHL	CHB-C4A	-3.52	1.34	1.38
27	3	313	CHL	CHB-C4A	-3.52	1.34	1.38
27	5	321	CHL	CHB-C4A	-3.52	1.34	1.38
27	5	319	CHL	C3D-C2D	3.52	1.45	1.39
27	3	311	CHL	CHB-C4A	-3.52	1.34	1.38
22	B	802	BCR	C30-C25	-3.52	1.49	1.53
27	6	313	CHL	C3A-C2A	-3.52	1.51	1.54
27	A	821	CHL	CHB-C4A	-3.52	1.34	1.38
27	6	314	CHL	CHB-C4A	-3.52	1.34	1.38
27	b	309	CHL	CHB-C4A	-3.52	1.34	1.38
29	6	303	LUT	C28-C29	3.52	1.53	1.46
27	5	315	CHL	CHB-C4A	-3.52	1.34	1.38
27	3	316	CHL	C3B-C2B	3.51	1.45	1.40
27	a	318	CHL	C3D-C2D	3.51	1.45	1.39
27	5	323	CHL	CHB-C4A	-3.51	1.34	1.38
29	8	304	LUT	C11-C10	3.51	1.54	1.43
27	A	858	CHL	CHB-C4A	-3.51	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	b	310	CHL	CHA-CBD	-3.51	1.47	1.51
29	3	305	LUT	C8-C9	3.51	1.53	1.46
27	A	820	CHL	MG-ND	-3.50	1.98	2.05
26	A	815	CL0	CHB-C1B	3.50	1.45	1.39
29	a	302	LUT	C28-C29	3.50	1.53	1.46
27	6	317	CHL	CHC-C1C	3.50	1.46	1.39
29	3	304	LUT	C11-C10	3.49	1.54	1.43
22	A	806	BCR	C1-C6	-3.49	1.49	1.53
27	L	304	CHL	CHB-C4A	-3.49	1.34	1.38
27	B	845	CHL	C3A-C2A	-3.49	1.51	1.54
27	8	326	CHL	CHB-C4A	-3.49	1.34	1.38
27	5	325	CHL	C3D-C2D	3.48	1.45	1.39
29	3	304	LUT	C28-C29	3.48	1.53	1.46
22	B	804	BCR	C1-C6	-3.48	1.49	1.53
27	5	309	CHL	MG-NB	-3.48	1.98	2.05
27	5	310	CHL	CHB-C4A	-3.48	1.34	1.38
27	B	823	CHL	C3A-C2A	-3.48	1.51	1.54
29	5	303	LUT	C12-C13	3.48	1.53	1.46
27	F	309	CHL	CHB-C4A	-3.48	1.34	1.38
27	K	207	CHL	C3D-C2D	3.48	1.45	1.39
27	A	841	CHL	CBD-CGD	-3.48	1.48	1.52
27	B	830	CHL	CHB-C4A	-3.47	1.34	1.38
27	K	205	CHL	CHB-C4A	-3.47	1.34	1.38
27	8	323	CHL	CHB-C4A	-3.47	1.34	1.38
22	5	301	BCR	C30-C25	-3.47	1.49	1.53
29	b	301	LUT	C12-C13	3.47	1.53	1.46
27	A	837	CHL	CHB-C4A	-3.47	1.34	1.38
27	A	851	CHL	CHB-C4A	-3.47	1.34	1.38
27	5	322	CHL	C3D-C2D	3.47	1.45	1.39
27	B	840	CHL	CHB-C4A	-3.47	1.34	1.38
27	B	845	CHL	CHB-C4A	-3.47	1.34	1.38
27	5	312	CHL	C3A-C2A	-3.47	1.51	1.54
27	3	316	CHL	C3D-C4D	-3.46	1.36	1.41
29	3	305	LUT	C32-C33	3.46	1.53	1.46
27	b	307	CHL	CHB-C4A	-3.46	1.34	1.38
29	a	304	LUT	C12-C13	3.46	1.53	1.46
27	B	848	CHL	CHB-C4A	-3.46	1.34	1.38
27	L	303	CHL	CBD-CGD	-3.46	1.48	1.52
27	8	321	CHL	CHD-C1D	3.46	1.45	1.39
29	6	303	LUT	C12-C13	3.46	1.53	1.46
27	A	817	CHL	C3A-C2A	-3.46	1.51	1.54
27	4	320	CHL	C3A-C2A	-3.46	1.51	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	7	313	CHL	C3A-C2A	-3.46	1.51	1.54
27	5	317	CHL	C3D-C2D	3.45	1.45	1.39
27	6	311	CHL	CHB-C4A	-3.45	1.34	1.38
27	B	824	CHL	CHB-C4A	-3.45	1.34	1.38
27	A	816	CHL	CHB-C4A	-3.45	1.34	1.38
27	7	318	CHL	CHB-C4A	-3.45	1.34	1.38
27	5	321	CHL	C3A-C2A	-3.45	1.51	1.54
34	8	301	SQD	O5-C1	3.45	1.50	1.41
27	6	309	CHL	CHA-CBD	-3.44	1.47	1.51
29	3	305	LUT	C11-C10	3.44	1.53	1.43
27	a	308	CHL	MG-NB	-3.44	1.99	2.05
29	7	304	LUT	C11-C10	3.44	1.53	1.43
29	b	301	LUT	C26-C27	3.44	1.55	1.50
27	B	829	CHL	CHB-C4A	-3.44	1.34	1.38
27	6	310	CHL	C3A-C2A	-3.44	1.51	1.54
27	b	304	CHL	C3A-C2A	-3.44	1.51	1.54
27	5	314	CHL	CHB-C4A	-3.44	1.34	1.38
29	a	302	LUT	C12-C13	3.44	1.53	1.46
29	7	304	LUT	C12-C13	3.44	1.53	1.46
27	5	318	CHL	CHA-CBD	-3.43	1.47	1.51
27	A	856	CHL	CHB-C4A	-3.43	1.34	1.38
27	B	816	CHL	CHB-C4A	-3.43	1.34	1.38
27	6	310	CHL	CHB-C4A	-3.43	1.34	1.38
27	B	841	CHL	CHA-CBD	-3.43	1.47	1.51
27	7	312	CHL	CHB-C4A	-3.43	1.34	1.38
27	6	306	CHL	CHA-CBD	-3.43	1.47	1.51
29	4	301	LUT	C32-C33	3.43	1.53	1.46
27	4	310	CHL	C3A-C2A	-3.43	1.51	1.54
29	4	301	LUT	C26-C27	3.43	1.55	1.50
27	3	319	CHL	CHB-C4A	-3.43	1.34	1.38
27	b	313	CHL	CHB-C4A	-3.43	1.34	1.38
27	A	842	CHL	C3D-C2D	3.42	1.45	1.39
27	B	823	CHL	CHB-C4A	-3.42	1.34	1.38
27	A	857	CHL	CHB-C4A	-3.42	1.34	1.38
27	6	310	CHL	MG-NB	3.42	2.12	2.05
27	8	312	CHL	CHA-CBD	-3.42	1.47	1.51
27	8	324	CHL	C3D-C2D	3.42	1.45	1.39
27	6	317	CHL	C3D-C4D	-3.42	1.36	1.41
27	B	831	CHL	CHA-CBD	-3.42	1.47	1.51
27	a	315	CHL	C3D-C2D	3.41	1.45	1.39
29	8	304	LUT	C12-C13	3.41	1.53	1.46
27	K	204	CHL	CHB-C4A	-3.41	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	847	CHL	CHA-CBD	-3.41	1.47	1.51
22	B	802	BCR	C1-C6	-3.41	1.49	1.53
27	B	827	CHL	C3A-C2A	-3.41	1.51	1.54
27	A	824	CHL	CHB-C4A	-3.41	1.34	1.38
27	J	106	CHL	CHB-C4A	-3.41	1.34	1.38
22	K	202	BCR	C1-C6	-3.41	1.49	1.53
27	B	835	CHL	C3A-C2A	-3.40	1.51	1.54
27	6	309	CHL	CHB-C4A	-3.40	1.34	1.38
22	F	301	BCR	C1-C6	-3.40	1.49	1.53
26	A	815	CL0	C3D-C2D	3.40	1.45	1.39
27	B	835	CHL	CHB-C4A	-3.40	1.34	1.38
27	7	320	CHL	C3D-C4D	-3.40	1.36	1.41
27	A	850	CHL	CHA-CBD	-3.40	1.47	1.51
27	B	847	CHL	C3A-C2A	-3.39	1.51	1.54
22	B	803	BCR	C1-C6	-3.39	1.49	1.53
22	3	303	BCR	C30-C25	-3.39	1.49	1.53
29	8	304	LUT	C28-C29	3.39	1.53	1.46
27	6	317	CHL	C3D-C2D	3.39	1.45	1.39
27	b	311	CHL	C3D-C2D	3.39	1.45	1.39
27	5	323	CHL	C3A-C2A	-3.39	1.51	1.54
27	A	832	CHL	CHB-C4A	-3.38	1.34	1.38
27	8	317	CHL	CHB-C4A	-3.38	1.34	1.38
27	4	312	CHL	C3D-C2D	3.38	1.45	1.39
27	B	811	CHL	MG-ND	3.38	2.12	2.05
27	B	843	CHL	CHA-CBD	-3.37	1.47	1.51
27	B	826	CHL	MG-NB	3.37	2.12	2.05
27	A	838	CHL	CHA-CBD	-3.37	1.47	1.51
27	7	313	CHL	CHB-C4A	-3.37	1.34	1.38
27	A	839	CHL	CHA-CBD	-3.37	1.47	1.51
27	7	324	CHL	CHA-CBD	-3.37	1.47	1.51
27	A	833	CHL	C3D-C2D	3.37	1.45	1.39
29	8	303	LUT	C32-C33	3.37	1.53	1.46
27	B	840	CHL	C3A-C2A	-3.37	1.51	1.54
27	a	312	CHL	C3A-C2A	-3.37	1.51	1.54
29	F	303	LUT	C32-C33	3.37	1.53	1.46
27	A	818	CHL	CHB-C4A	-3.37	1.34	1.38
27	A	843	CHL	CHC-C4B	3.37	1.45	1.39
27	B	836	CHL	CHA-CBD	-3.37	1.47	1.51
29	8	304	LUT	C32-C33	3.36	1.53	1.46
27	4	319	CHL	C3A-C2A	-3.36	1.51	1.54
29	3	305	LUT	C12-C13	3.36	1.53	1.46
27	5	317	CHL	C3D-C4D	-3.36	1.36	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	7	304	LUT	C32-C33	3.36	1.53	1.46
27	7	321	CHL	C3D-C2D	3.36	1.45	1.39
22	8	302	BCR	C30-C25	-3.36	1.49	1.53
27	A	840	CHL	CHB-C4A	-3.36	1.34	1.38
27	7	322	CHL	C3D-C4D	-3.35	1.36	1.41
27	5	308	CHL	CHB-C4A	-3.35	1.34	1.38
27	3	310	CHL	CHA-CBD	-3.35	1.47	1.51
27	A	856	CHL	MG-NB	-3.35	1.99	2.05
27	A	853	CHL	CHB-C4A	-3.35	1.34	1.38
27	B	816	CHL	CHA-CBD	-3.34	1.47	1.51
27	A	834	CHL	CHA-CBD	-3.34	1.47	1.51
27	A	852	CHL	CHB-C4A	-3.34	1.34	1.38
27	A	826	CHL	MG-NB	3.34	2.12	2.05
27	B	814	CHL	MG-ND	-3.34	1.99	2.05
27	3	320	CHL	CHA-CBD	-3.34	1.47	1.51
27	A	842	CHL	CHD-C1D	3.34	1.45	1.39
27	A	841	CHL	C3D-C4D	-3.34	1.36	1.41
27	5	319	CHL	C3D-C4D	-3.34	1.36	1.41
27	4	306	CHL	C3A-C2A	-3.33	1.51	1.54
27	a	316	CHL	MG-ND	-3.33	1.99	2.05
29	5	302	LUT	C32-C33	3.33	1.53	1.46
27	A	833	CHL	C3D-C4D	-3.33	1.36	1.41
27	8	313	CHL	CHB-C4A	-3.33	1.34	1.38
27	b	312	CHL	C3A-C2A	-3.33	1.51	1.54
27	b	314	CHL	C3A-C2A	-3.33	1.51	1.54
22	K	203	BCR	C30-C25	-3.33	1.49	1.53
29	3	304	LUT	C12-C13	3.32	1.53	1.46
27	A	843	CHL	C3D-C2D	3.32	1.45	1.39
27	B	848	CHL	CHA-CBD	-3.32	1.47	1.51
27	a	314	CHL	CHA-CBD	-3.32	1.47	1.51
27	8	324	CHL	C3D-C4D	-3.32	1.36	1.41
22	B	805	BCR	C1-C6	-3.32	1.49	1.53
27	8	321	CHL	C3D-C2D	3.31	1.45	1.39
29	5	302	LUT	C28-C29	3.31	1.53	1.46
27	8	323	CHL	CHC-C1C	3.31	1.45	1.39
29	5	303	LUT	C28-C29	3.31	1.53	1.46
27	A	843	CHL	OBD-CAD	3.31	1.26	1.22
27	7	322	CHL	C3D-C2D	3.31	1.45	1.39
27	A	846	CHL	CHB-C1B	3.30	1.45	1.39
27	A	841	CHL	CHD-C1D	3.30	1.45	1.39
27	5	320	CHL	C3A-C2A	-3.30	1.51	1.54
29	a	304	LUT	C26-C27	3.30	1.55	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	L	302	BCR	C1-C6	-3.30	1.49	1.53
27	3	319	CHL	MG-NB	3.30	2.12	2.05
27	K	204	CHL	CHA-CBD	-3.30	1.47	1.51
29	5	303	LUT	C32-C33	3.30	1.53	1.46
27	4	317	CHL	CBD-CGD	-3.30	1.48	1.52
29	a	302	LUT	C26-C27	3.29	1.55	1.50
27	7	320	CHL	C3D-C2D	3.29	1.45	1.39
27	K	205	CHL	CHA-CBD	-3.29	1.47	1.51
27	a	319	CHL	CHA-CBD	-3.28	1.47	1.51
27	b	312	CHL	CHB-C4A	-3.28	1.34	1.38
27	6	320	CHL	CHA-CBD	-3.28	1.47	1.51
27	3	308	CHL	CHA-CBD	-3.28	1.47	1.51
27	4	315	CHL	CHA-CBD	-3.28	1.47	1.51
27	7	319	CHL	C3D-C2D	3.28	1.45	1.39
29	6	302	LUT	C23-C24	3.27	1.54	1.50
34	8	301	SQD	O47-C7	3.27	1.43	1.34
27	b	305	CHL	C3A-C2A	-3.27	1.51	1.54
29	5	303	LUT	C7-C6	3.27	1.56	1.45
27	8	314	CHL	C3D-C2D	3.27	1.45	1.39
27	a	315	CHL	C3D-C4D	-3.27	1.36	1.41
29	7	304	LUT	C28-C29	3.27	1.52	1.46
27	b	306	CHL	CHA-CBD	-3.27	1.47	1.51
27	4	318	CHL	C3A-C2A	-3.27	1.51	1.54
27	B	851	CHL	MG-NB	3.26	2.12	2.05
29	a	302	LUT	C32-C33	3.26	1.52	1.46
27	A	848	CHL	CHA-CBD	-3.25	1.47	1.51
27	5	313	CHL	C3B-C2B	3.25	1.44	1.40
27	a	317	CHL	C3A-C2A	-3.25	1.51	1.54
27	7	321	CHL	C3D-C4D	-3.25	1.36	1.41
29	J	103	LUT	C7-C6	3.25	1.56	1.45
27	4	309	CHL	C3D-C4D	-3.25	1.36	1.41
27	b	313	CHL	CHA-CBD	-3.25	1.47	1.51
27	K	206	CHL	C3A-C2A	-3.25	1.51	1.54
27	L	303	CHL	C3D-C2D	3.25	1.45	1.39
27	F	308	CHL	CHB-C4A	-3.24	1.34	1.38
27	7	319	CHL	C3D-C4D	-3.24	1.36	1.41
27	a	307	CHL	CHA-CBD	-3.24	1.47	1.51
27	4	308	CHL	CHA-CBD	-3.24	1.47	1.51
27	7	315	CHL	MG-NB	3.23	2.12	2.05
27	4	319	CHL	CHA-CBD	-3.23	1.47	1.51
22	M	102	BCR	C30-C25	-3.23	1.49	1.53
27	4	305	CHL	CHA-CBD	-3.23	1.47	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	b	308	CHL	CHB-C4A	-3.23	1.34	1.38
27	A	849	CHL	CHA-CBD	-3.23	1.47	1.51
27	b	311	CHL	C3D-C4D	-3.22	1.36	1.41
27	B	834	CHL	MG-ND	3.22	2.12	2.05
27	3	318	CHL	CHB-C4A	-3.22	1.34	1.38
27	A	824	CHL	CHA-CBD	-3.22	1.47	1.51
27	5	325	CHL	C3D-C4D	-3.22	1.36	1.41
29	F	303	LUT	C7-C6	3.22	1.56	1.45
27	A	842	CHL	C3D-C4D	-3.22	1.36	1.41
27	8	321	CHL	C3D-C4D	-3.22	1.36	1.41
27	8	314	CHL	C3D-C4D	-3.22	1.36	1.41
27	5	320	CHL	CHA-CBD	-3.22	1.47	1.51
27	5	309	CHL	CHB-C4A	-3.21	1.34	1.38
27	A	844	CHL	CHA-CBD	-3.21	1.47	1.51
27	B	825	CHL	CHA-CBD	-3.21	1.47	1.51
27	B	844	CHL	CHA-CBD	-3.21	1.47	1.51
27	b	304	CHL	CHA-CBD	-3.21	1.47	1.51
27	6	305	CHL	CHA-CBD	-3.21	1.47	1.51
27	b	316	CHL	C3D-C4D	-3.20	1.36	1.41
22	A	807	BCR	C30-C25	-3.20	1.49	1.53
27	7	315	CHL	CHA-CBD	-3.20	1.47	1.51
27	3	311	CHL	CHA-CBD	-3.20	1.47	1.51
27	4	307	CHL	CHA-CBD	-3.20	1.47	1.51
27	7	312	CHL	CHA-CBD	-3.20	1.47	1.51
27	3	319	CHL	CHA-CBD	-3.19	1.47	1.51
27	A	817	CHL	CHA-CBD	-3.19	1.47	1.51
22	B	807	BCR	C30-C25	-3.19	1.49	1.53
27	8	322	CHL	CHA-CBD	-3.19	1.47	1.51
27	4	316	CHL	C3D-C4D	-3.19	1.36	1.41
27	A	831	CHL	CHB-C1B	3.19	1.44	1.39
22	L	301	BCR	C1-C6	-3.19	1.49	1.53
27	B	811	CHL	CHB-C4A	-3.19	1.34	1.38
27	8	315	CHL	CHA-CBD	-3.18	1.47	1.51
27	a	316	CHL	C3D-C4D	-3.18	1.36	1.41
27	4	311	CHL	CHA-CBD	-3.18	1.47	1.51
29	8	304	LUT	C26-C27	3.18	1.55	1.50
27	6	316	CHL	C3D-C4D	-3.18	1.36	1.41
27	A	853	CHL	CHA-CBD	-3.18	1.47	1.51
27	A	843	CHL	CHB-C1B	3.18	1.44	1.39
27	4	318	CHL	CHA-CBD	-3.18	1.47	1.51
27	B	818	CHL	CHA-CBD	-3.18	1.47	1.51
27	5	307	CHL	CHA-CBD	-3.18	1.47	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	b	307	CHL	CHA-CBD	-3.18	1.47	1.51
29	8	303	LUT	C28-C29	3.17	1.52	1.46
29	6	303	LUT	C7-C6	3.17	1.55	1.45
22	A	805	BCR	C1-C6	-3.17	1.49	1.53
27	3	313	CHL	CHA-CBD	-3.17	1.48	1.51
29	5	302	LUT	C7-C6	3.16	1.55	1.45
29	3	304	LUT	C7-C6	3.16	1.55	1.45
27	b	315	CHL	C3A-C2A	-3.16	1.52	1.54
22	A	804	BCR	C30-C25	-3.16	1.49	1.53
27	7	316	CHL	CHA-CBD	-3.16	1.48	1.51
27	b	309	CHL	C3A-C2A	-3.16	1.52	1.54
22	A	804	BCR	C1-C6	-3.16	1.49	1.53
27	4	320	CHL	CHA-CBD	-3.15	1.48	1.51
27	4	310	CHL	CHA-CBD	-3.15	1.48	1.51
27	8	311	CHL	CHA-CBD	-3.15	1.48	1.51
29	4	301	LUT	C23-C24	3.15	1.54	1.50
27	8	323	CHL	MG-NB	3.15	2.12	2.05
27	B	847	CHL	CHA-CBD	-3.14	1.48	1.51
27	K	207	CHL	C3D-C4D	-3.14	1.36	1.41
27	5	313	CHL	CBD-CGD	-3.14	1.48	1.52
29	8	304	LUT	C7-C6	3.14	1.55	1.45
27	A	846	CHL	C3D-C2D	3.14	1.45	1.39
27	b	317	CHL	C3D-C4D	-3.13	1.36	1.41
27	B	830	CHL	CHA-CBD	-3.13	1.48	1.51
27	a	317	CHL	CHA-CBD	-3.13	1.48	1.51
29	a	302	LUT	C7-C6	3.13	1.55	1.45
27	4	304	CHL	CHA-CBD	-3.13	1.48	1.51
27	3	320	CHL	MG-NB	-3.13	1.99	2.05
27	4	304	CHL	MG-ND	3.12	2.12	2.05
27	K	206	CHL	CHA-CBD	-3.12	1.48	1.51
27	3	315	CHL	CHA-CBD	-3.12	1.48	1.51
27	b	314	CHL	CHA-CBD	-3.12	1.48	1.51
27	3	317	CHL	CHA-CBD	-3.12	1.48	1.51
27	A	859	CHL	CHA-CBD	-3.12	1.48	1.51
27	a	313	CHL	CHA-CBD	-3.12	1.48	1.51
27	L	303	CHL	CHD-C4C	3.11	1.45	1.39
22	K	202	BCR	C30-C25	-3.11	1.49	1.53
29	F	303	LUT	C23-C24	3.11	1.54	1.50
29	4	302	LUT	C26-C27	3.11	1.55	1.50
27	4	312	CHL	C3D-C4D	-3.11	1.36	1.41
27	3	316	CHL	C3D-C2D	3.11	1.44	1.39
27	5	322	CHL	C3D-C4D	-3.11	1.36	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	a	318	CHL	C3D-C4D	-3.10	1.36	1.41
22	B	807	BCR	C1-C6	-3.10	1.49	1.53
27	B	842	CHL	CHA-CBD	-3.10	1.48	1.51
22	A	803	BCR	C30-C25	-3.10	1.49	1.53
27	A	841	CHL	C3D-C2D	3.10	1.44	1.39
29	3	305	LUT	C26-C27	3.09	1.55	1.50
29	6	303	LUT	C26-C27	3.09	1.55	1.50
27	7	318	CHL	CHA-CBD	-3.09	1.48	1.51
27	A	854	CHL	CHA-CBD	-3.09	1.48	1.51
27	5	323	CHL	MG-NB	-3.09	1.99	2.05
22	3	301	BCR	C30-C25	-3.09	1.49	1.53
27	6	318	CHL	C3D-C4D	-3.09	1.36	1.41
27	A	819	CHL	CHA-CBD	-3.08	1.48	1.51
27	5	311	CHL	CHA-CBD	-3.08	1.48	1.51
27	L	303	CHL	CHC-C4B	3.08	1.44	1.39
27	6	307	CHL	C3D-C2D	3.07	1.44	1.39
29	b	301	LUT	C7-C6	3.07	1.55	1.45
27	B	851	CHL	CHA-CBD	-3.07	1.48	1.51
27	B	832	CHL	MG-NB	-3.07	1.99	2.05
27	B	839	CHL	CHA-CBD	-3.06	1.48	1.51
29	b	301	LUT	C23-C24	3.06	1.54	1.50
27	A	816	CHL	CHA-CBD	-3.05	1.48	1.51
24	A	812	LHG	O7-C5	-3.05	1.39	1.46
27	A	825	CHL	CHA-CBD	-3.05	1.48	1.51
27	b	313	CHL	C3A-C2A	-3.05	1.52	1.54
27	7	321	CHL	CBD-CGD	-3.05	1.48	1.52
34	8	301	SQD	C24-C23	3.05	1.59	1.50
27	B	829	CHL	CHA-CBD	-3.05	1.48	1.51
27	4	306	CHL	CHA-CBD	-3.05	1.48	1.51
22	5	301	BCR	C1-C6	-3.05	1.49	1.53
27	b	312	CHL	CHA-CBD	-3.05	1.48	1.51
22	B	805	BCR	C30-C25	-3.04	1.49	1.53
27	B	814	CHL	CHA-CBD	-3.04	1.48	1.51
27	B	833	CHL	CHA-CBD	-3.04	1.48	1.51
27	a	320	CHL	CHA-CBD	-3.04	1.48	1.51
27	b	309	CHL	CHA-CBD	-3.04	1.48	1.51
27	8	319	CHL	CHA-CBD	-3.04	1.48	1.51
27	5	315	CHL	CHA-CBD	-3.04	1.48	1.51
29	F	303	LUT	C26-C27	3.04	1.54	1.50
26	A	815	CL0	CHC-C4B	3.04	1.44	1.39
27	B	845	CHL	CHA-CBD	-3.03	1.48	1.51
29	7	304	LUT	C1-C6	3.03	1.57	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	3	318	CHL	CHA-CBD	-3.03	1.48	1.51
27	6	310	CHL	CHA-CBD	-3.03	1.48	1.51
27	8	318	CHL	CHA-CBD	-3.03	1.48	1.51
27	A	847	CHL	MG-NB	-3.02	1.99	2.05
27	8	316	CHL	CHA-CBD	-3.02	1.48	1.51
27	A	822	CHL	CHA-CBD	-3.02	1.48	1.51
27	A	827	CHL	CHA-CBD	-3.02	1.48	1.51
27	B	850	CHL	MG-ND	-3.02	1.99	2.05
27	B	851	CHL	MG-ND	-3.02	1.99	2.05
22	6	301	BCR	C8-C9	-3.02	1.39	1.46
27	5	313	CHL	C3D-C2D	3.02	1.44	1.39
27	8	313	CHL	CHA-CBD	-3.02	1.48	1.51
27	B	849	CHL	CHA-CBD	-3.01	1.48	1.51
27	6	314	CHL	CHA-CBD	-3.01	1.48	1.51
27	5	312	CHL	CHA-CBD	-3.01	1.48	1.51
27	6	315	CHL	CHA-CBD	-3.01	1.48	1.51
27	a	308	CHL	MG-ND	3.01	2.11	2.05
27	8	325	CHL	CHA-CBD	-3.01	1.48	1.51
27	A	842	CHL	CHA-CBD	-3.00	1.48	1.51
27	A	851	CHL	CHA-CBD	-3.00	1.48	1.51
29	4	301	LUT	C7-C6	3.00	1.55	1.45
27	a	317	CHL	MG-ND	-3.00	1.99	2.05
27	4	305	CHL	MG-NB	3.00	2.11	2.05
22	K	203	BCR	C1-C6	-3.00	1.49	1.53
27	7	313	CHL	CHA-CBD	-3.00	1.48	1.51
27	8	326	CHL	CHA-CBD	-2.99	1.48	1.51
27	A	858	CHL	CHA-CBD	-2.99	1.48	1.51
27	A	829	CHL	CHA-CBD	-2.98	1.48	1.51
27	6	308	CHL	CBD-CGD	-2.98	1.48	1.52
27	a	310	CHL	CHA-CBD	-2.98	1.48	1.51
29	6	302	LUT	C7-C6	2.97	1.55	1.45
27	A	818	CHL	CHA-CBD	-2.97	1.48	1.51
27	3	321	CHL	CHA-CBD	-2.97	1.48	1.51
27	6	319	CHL	CHC-C1C	2.97	1.45	1.39
29	a	304	LUT	C7-C6	2.96	1.55	1.45
26	A	815	CL0	CHD-C4C	2.96	1.45	1.39
27	J	106	CHL	CHA-CBD	-2.96	1.48	1.51
27	5	309	CHL	CHA-CBD	-2.96	1.48	1.51
27	a	312	CHL	CHA-CBD	-2.95	1.48	1.51
27	5	310	CHL	MG-ND	-2.94	2.00	2.05
27	a	315	CHL	CHA-CBD	-2.94	1.48	1.51
27	B	821	CHL	CHA-CBD	-2.94	1.48	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	b	308	CHL	MG-ND	2.94	2.11	2.05
27	A	845	CHL	CHA-CBD	-2.94	1.48	1.51
27	B	823	CHL	CHA-CBD	-2.94	1.48	1.51
27	A	826	CHL	CHA-CBD	-2.94	1.48	1.51
29	8	303	LUT	C7-C6	2.94	1.55	1.45
27	5	321	CHL	CHA-CBD	-2.93	1.48	1.51
27	L	304	CHL	CHA-CBD	-2.93	1.48	1.51
27	7	314	CHL	CHA-CBD	-2.92	1.48	1.51
27	4	317	CHL	C3A-C2A	-2.92	1.52	1.54
27	F	309	CHL	CHA-CBD	-2.92	1.48	1.51
27	B	813	CHL	CHA-CBD	-2.92	1.48	1.51
22	6	301	BCR	C23-C22	-2.92	1.39	1.46
27	8	317	CHL	CHA-CBD	-2.92	1.48	1.51
27	8	320	CHL	CHA-CBD	-2.92	1.48	1.51
27	B	815	CHL	CHA-CBD	-2.91	1.48	1.51
27	B	839	CHL	MG-ND	2.90	2.11	2.05
27	6	313	CHL	CHA-CBD	-2.90	1.48	1.51
27	A	822	CHL	MG-NB	2.90	2.11	2.05
27	B	837	CHL	CHA-CBD	-2.89	1.48	1.51
27	L	303	CHL	CHC-C1C	2.89	1.44	1.39
27	B	827	CHL	MG-NB	-2.88	2.00	2.05
27	A	832	CHL	CHA-CBD	-2.88	1.48	1.51
27	a	311	CHL	MG-ND	-2.88	2.00	2.05
29	8	304	LUT	C23-C24	2.88	1.54	1.50
26	A	815	CL0	CBD-CGD	-2.87	1.48	1.52
27	6	319	CHL	MG-NB	-2.87	2.00	2.05
27	B	850	CHL	CHA-CBD	-2.87	1.48	1.51
27	A	846	CHL	CHD-C4C	2.87	1.44	1.39
27	A	830	CHL	CHA-CBD	-2.87	1.48	1.51
28	B	809	DGD	O2G-C2G	-2.87	1.39	1.46
22	A	806	BCR	C30-C25	-2.86	1.50	1.53
27	A	855	CHL	CHA-CBD	-2.86	1.48	1.51
27	B	835	CHL	CHA-CBD	-2.86	1.48	1.51
27	B	824	CHL	CHA-CBD	-2.85	1.48	1.51
27	3	312	CHL	CHA-CBD	-2.85	1.48	1.51
29	3	305	LUT	C7-C6	2.85	1.54	1.45
27	B	838	CHL	CHA-CBD	-2.85	1.48	1.51
23	A	808	LMT	O3'-C3'	-2.85	1.35	1.43
27	B	844	CHL	MG-ND	2.85	2.11	2.05
27	L	303	CHL	CHA-CBD	-2.85	1.48	1.51
29	J	103	LUT	C26-C27	2.84	1.54	1.50
22	A	803	BCR	C1-C6	-2.84	1.50	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	823	CHL	CHA-CBD	-2.84	1.48	1.51
27	7	321	CHL	CHA-CBD	-2.84	1.48	1.51
27	7	317	CHL	CHA-CBD	-2.84	1.48	1.51
29	3	304	LUT	C26-C27	2.84	1.54	1.50
27	A	837	CHL	CHA-CBD	-2.83	1.48	1.51
27	8	311	CHL	MG-ND	2.83	2.11	2.05
22	7	303	BCR	C30-C25	-2.82	1.50	1.53
27	A	828	CHL	CHA-CBD	-2.82	1.48	1.51
27	5	325	CHL	MG-ND	2.82	2.11	2.05
27	B	812	CHL	CHA-CBD	-2.81	1.48	1.51
27	8	323	CHL	CBD-CGD	-2.81	1.49	1.52
27	A	843	CHL	CBD-CGD	-2.81	1.49	1.52
29	a	304	LUT	C23-C24	2.81	1.54	1.50
27	3	316	CHL	CHA-CBD	-2.81	1.48	1.51
22	B	804	BCR	C30-C25	-2.80	1.50	1.53
27	A	846	CHL	CHC-C4B	2.80	1.44	1.39
27	5	314	CHL	CHA-CBD	-2.80	1.48	1.51
27	A	831	CHL	C3D-C2D	2.80	1.44	1.39
27	A	846	CHL	CBD-CGD	-2.80	1.49	1.52
22	3	301	BCR	C1-C6	-2.79	1.50	1.53
27	F	308	CHL	CHA-CBD	-2.79	1.48	1.51
27	6	311	CHL	CHA-CBD	-2.79	1.48	1.51
27	7	318	CHL	MG-ND	2.79	2.11	2.05
27	4	313	CHL	CBD-CGD	-2.79	1.49	1.52
27	5	325	CHL	CHA-CBD	-2.78	1.48	1.51
27	b	308	CHL	CMA-C3A	-2.77	1.48	1.53
22	J	102	BCR	C1-C6	-2.77	1.50	1.53
22	7	303	BCR	C1-C6	-2.77	1.50	1.53
27	8	321	CHL	MG-ND	2.76	2.11	2.05
27	3	314	CHL	CHA-CBD	-2.76	1.48	1.51
27	A	820	CHL	CHA-CBD	-2.76	1.48	1.51
27	5	323	CHL	CHA-CBD	-2.76	1.48	1.51
27	5	313	CHL	CHD-C4C	2.76	1.44	1.39
29	8	303	LUT	C26-C27	2.75	1.54	1.50
22	B	806	BCR	C1-C6	-2.75	1.50	1.53
27	B	819	CHL	CHA-CBD	-2.74	1.48	1.51
27	5	319	CHL	CHA-CBD	-2.74	1.48	1.51
22	A	805	BCR	C30-C25	-2.74	1.50	1.53
27	A	842	CHL	CBD-CGD	-2.74	1.49	1.52
27	8	312	CHL	CBD-CGD	-2.74	1.49	1.52
27	L	303	CHL	CHB-C1B	2.74	1.44	1.39
27	6	317	CHL	MG-ND	-2.73	2.00	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	J	102	BCR	C30-C25	-2.73	1.50	1.53
27	a	308	CHL	CHA-CBD	-2.72	1.48	1.51
27	6	307	CHL	CHD-C4C	2.72	1.44	1.39
27	6	312	CHL	CHA-CBD	-2.72	1.48	1.51
27	A	835	CHL	CHA-CBD	-2.72	1.48	1.51
27	3	316	CHL	MG-NB	-2.72	2.00	2.05
27	B	826	CHL	CHA-CBD	-2.71	1.48	1.51
22	8	302	BCR	C1-C6	-2.71	1.50	1.53
27	8	320	CHL	MG-ND	2.71	2.11	2.05
29	5	302	LUT	C26-C27	2.71	1.54	1.50
27	B	847	CHL	MG-ND	2.70	2.11	2.05
27	5	312	CHL	MG-ND	2.70	2.11	2.05
27	4	312	CHL	CHA-CBD	-2.70	1.48	1.51
27	4	315	CHL	MG-NB	-2.69	2.00	2.05
27	a	307	CHL	CBD-CGD	-2.69	1.49	1.52
27	A	831	CHL	CHD-C4C	2.69	1.44	1.39
27	a	316	CHL	CHA-CBD	-2.68	1.48	1.51
27	5	310	CHL	CHA-CBD	-2.68	1.48	1.51
27	A	856	CHL	CHA-CBD	-2.68	1.48	1.51
22	F	301	BCR	C30-C25	-2.68	1.50	1.53
27	A	816	CHL	MG-NB	-2.67	2.00	2.05
27	6	307	CHL	CHC-C4B	2.67	1.44	1.39
29	3	304	LUT	C18-C5	2.67	1.55	1.50
27	A	831	CHL	CBD-CGD	-2.67	1.49	1.52
27	5	313	CHL	CHB-C1B	2.67	1.43	1.39
27	b	305	CHL	CHA-CBD	-2.67	1.48	1.51
29	a	302	LUT	C23-C24	2.66	1.54	1.50
29	5	302	LUT	C23-C24	2.66	1.54	1.50
27	6	305	CHL	MG-ND	-2.66	2.00	2.05
27	B	832	CHL	CHA-CBD	-2.66	1.48	1.51
27	6	316	CHL	CHA-CBD	-2.65	1.48	1.51
29	7	304	LUT	C26-C27	2.65	1.54	1.50
27	a	311	CHL	CHA-CBD	-2.65	1.48	1.51
27	B	822	CHL	CHA-CBD	-2.65	1.48	1.51
27	8	315	CHL	MG-NB	-2.65	2.00	2.05
27	8	314	CHL	CBD-CGD	-2.65	1.49	1.52
29	J	103	LUT	C18-C5	2.65	1.55	1.50
27	B	813	CHL	MG-ND	2.64	2.11	2.05
22	L	302	BCR	C30-C25	-2.64	1.50	1.53
23	5	326	LMT	O3'-C3'	-2.64	1.36	1.43
22	A	807	BCR	C1-C6	-2.63	1.50	1.53
27	A	831	CHL	CHC-C1C	2.63	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	7	306	LHG	O7-C5	-2.63	1.40	1.46
27	3	308	CHL	CBD-CGD	-2.62	1.49	1.52
27	B	823	CHL	MG-ND	-2.62	2.00	2.05
27	3	309	CHL	CHA-CBD	-2.62	1.48	1.51
29	8	303	LUT	C23-C24	2.61	1.54	1.50
29	5	303	LUT	C26-C27	2.61	1.54	1.50
27	A	843	CHL	CHC-C1C	2.61	1.44	1.39
27	A	852	CHL	CHA-CBD	-2.61	1.48	1.51
27	b	316	CHL	CHA-CBD	-2.61	1.48	1.51
22	I	801	BCR	C30-C25	-2.61	1.50	1.53
23	F	302	LMT	O3'-C3'	-2.61	1.36	1.43
27	A	851	CHL	MG-ND	-2.61	2.00	2.05
29	a	302	LUT	C18-C5	2.61	1.55	1.50
27	A	821	CHL	CHA-CBD	-2.60	1.48	1.51
27	B	818	CHL	MG-ND	-2.60	2.00	2.05
22	3	303	BCR	C1-C6	-2.59	1.50	1.53
27	K	207	CHL	CHA-CBD	-2.59	1.48	1.51
27	A	841	CHL	CHA-CBD	-2.58	1.48	1.51
22	3	302	BCR	C30-C25	-2.58	1.50	1.53
27	b	308	CHL	C4A-C3A	-2.58	1.46	1.51
26	A	815	CL0	CHC-C1C	2.58	1.44	1.39
29	4	301	LUT	C4-C5	2.57	1.55	1.51
23	7	308	LMT	O3'-C3'	-2.57	1.36	1.43
23	B	810	LMT	O3'-C3'	-2.57	1.36	1.43
29	4	301	LUT	C18-C5	2.57	1.55	1.50
27	4	309	CHL	CHA-CBD	-2.56	1.48	1.51
27	7	311	CHL	CBD-CGD	-2.56	1.49	1.52
29	J	103	LUT	C23-C24	2.56	1.53	1.50
27	7	323	CHL	CBD-CGD	-2.56	1.49	1.52
29	8	304	LUT	C38-C25	2.56	1.55	1.50
27	5	317	CHL	CHA-CBD	-2.56	1.48	1.51
29	3	304	LUT	C23-C24	2.56	1.53	1.50
29	a	302	LUT	C38-C25	2.56	1.55	1.50
29	7	304	LUT	C23-C24	2.55	1.53	1.50
22	B	806	BCR	C30-C25	-2.55	1.50	1.53
27	7	319	CHL	CBD-CGD	-2.55	1.49	1.52
29	b	303	LUT	C8-C9	-2.55	1.40	1.46
27	a	315	CHL	CBD-CGD	-2.54	1.49	1.52
29	F	303	LUT	C18-C5	2.54	1.55	1.50
27	A	840	CHL	CHA-CBD	-2.54	1.48	1.51
29	b	301	LUT	C38-C25	2.54	1.55	1.50
23	A	809	LMT	O3'-C3'	-2.54	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	b	308	CHL	MG-NB	2.54	2.10	2.05
23	A	809	LMT	O2'-C2'	-2.53	1.36	1.43
27	6	318	CHL	CHA-CBD	-2.53	1.48	1.51
29	4	302	LUT	C23-C24	2.53	1.53	1.50
27	8	314	CHL	CHA-CBD	-2.53	1.48	1.51
33	7	305	XAT	C28-C29	-2.53	1.40	1.46
27	8	323	CHL	MG-ND	2.53	2.10	2.05
27	A	833	CHL	CBD-CGD	-2.53	1.49	1.52
27	B	811	CHL	CHA-CBD	-2.52	1.48	1.51
27	b	317	CHL	CHA-CBD	-2.52	1.48	1.51
22	6	301	BCR	C19-C18	-2.52	1.40	1.46
29	7	304	LUT	C18-C5	2.52	1.54	1.50
29	b	303	LUT	C10-C9	2.52	1.41	1.35
27	A	840	CHL	C3A-C2A	-2.51	1.52	1.54
27	8	323	CHL	CMB-C2B	-2.51	1.46	1.51
29	5	302	LUT	C18-C5	2.51	1.54	1.50
24	B	808	LHG	O7-C5	-2.50	1.40	1.46
23	A	808	LMT	O2'-C2'	-2.50	1.36	1.43
23	5	306	LMT	O3'-C3'	-2.50	1.36	1.43
27	5	308	CHL	CHA-CBD	-2.50	1.48	1.51
27	6	319	CHL	CBD-CGD	-2.50	1.49	1.52
27	4	312	CHL	CBD-CGD	-2.50	1.49	1.52
31	a	303	AXT	C4-C5	-2.50	1.47	1.51
27	6	307	CHL	CHC-C1C	2.49	1.44	1.39
33	7	305	XAT	C32-C33	-2.49	1.40	1.46
27	4	316	CHL	CHA-CBD	-2.49	1.48	1.51
27	8	321	CHL	CBD-CGD	-2.49	1.49	1.52
27	b	311	CHL	CHA-CBD	-2.49	1.48	1.51
27	b	308	CHL	CBD-CGD	-2.48	1.49	1.52
27	7	323	CHL	CHD-C1D	2.48	1.43	1.39
22	6	301	BCR	C12-C13	-2.48	1.40	1.46
27	B	817	CHL	CHA-CBD	-2.48	1.48	1.51
27	B	834	CHL	CHA-CBD	-2.48	1.48	1.51
29	b	301	LUT	C18-C5	2.47	1.54	1.50
27	A	857	CHL	CHA-CBD	-2.47	1.48	1.51
29	6	303	LUT	C18-C5	2.46	1.54	1.50
29	6	302	LUT	C38-C25	2.46	1.55	1.50
29	3	305	LUT	C23-C24	2.46	1.53	1.50
27	5	316	CHL	CBD-CGD	-2.46	1.49	1.52
33	7	305	XAT	C8-C9	-2.45	1.40	1.46
27	L	303	CHL	CHD-C1D	2.45	1.43	1.39
24	8	305	LHG	O7-C5	-2.45	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	5	313	CHL	CHC-C4B	2.45	1.43	1.39
27	a	309	CHL	CHA-CBD	-2.44	1.48	1.51
24	b	302	LHG	O7-C5	-2.44	1.40	1.46
23	5	326	LMT	O2'-C2'	-2.43	1.36	1.43
23	5	326	LMT	O2B-C2B	-2.43	1.36	1.43
27	6	307	CHL	CHB-C1B	2.43	1.43	1.39
27	3	316	CHL	CBD-CGD	-2.43	1.49	1.52
28	B	809	DGD	O1G-C1G	-2.43	1.39	1.45
29	4	301	LUT	C38-C25	2.42	1.55	1.50
22	L	301	BCR	C30-C25	-2.42	1.50	1.53
29	a	304	LUT	C18-C5	2.42	1.54	1.50
23	7	308	LMT	O2'-C2'	-2.42	1.37	1.43
33	7	305	XAT	C12-C13	-2.42	1.40	1.46
27	F	309	CHL	MG-ND	2.41	2.10	2.05
27	7	320	CHL	CBD-CGD	-2.40	1.49	1.52
29	5	303	LUT	C23-C24	2.39	1.53	1.50
27	K	207	CHL	CBD-CGD	-2.39	1.49	1.52
27	A	833	CHL	CHA-CBD	-2.38	1.48	1.51
29	J	103	LUT	C4-C5	2.38	1.54	1.51
26	A	815	CL0	CHD-C1D	2.38	1.43	1.39
29	6	303	LUT	C23-C24	2.37	1.53	1.50
27	A	831	CHL	CHA-CBD	-2.37	1.48	1.51
27	B	835	CHL	CBD-CGD	-2.37	1.49	1.52
27	6	306	CHL	CBD-CGD	-2.37	1.49	1.52
27	6	316	CHL	CBD-CGD	-2.37	1.49	1.52
29	5	303	LUT	C18-C5	2.37	1.54	1.50
28	7	307	DGD	O2G-C2G	-2.36	1.41	1.46
27	A	846	CHL	CHD-C1D	2.36	1.43	1.39
27	5	313	CHL	CHC-C1C	2.35	1.43	1.39
29	6	302	LUT	C18-C5	2.35	1.54	1.50
29	5	302	LUT	C38-C25	2.35	1.54	1.50
27	4	313	CHL	CMC-C2C	-2.35	1.46	1.50
28	7	307	DGD	O5D-C6D	-2.35	1.39	1.43
23	7	308	LMT	O2B-C2B	-2.35	1.37	1.43
27	a	318	CHL	CHA-CBD	-2.35	1.48	1.51
27	B	840	CHL	CBD-CGD	-2.35	1.49	1.52
27	a	316	CHL	CBD-CGD	-2.34	1.49	1.52
27	B	839	CHL	MG-NB	-2.34	2.01	2.05
29	5	303	LUT	C38-C25	2.33	1.54	1.50
27	A	824	CHL	CBD-CGD	-2.33	1.49	1.52
23	B	810	LMT	O2'-C2'	-2.33	1.37	1.43
27	5	309	CHL	MG-ND	2.33	2.10	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	829	CHL	MG-ND	-2.33	2.01	2.05
29	3	305	LUT	C18-C5	2.33	1.54	1.50
27	7	315	CHL	MG-ND	-2.32	2.01	2.05
27	A	854	CHL	MG-NB	2.32	2.10	2.05
27	5	325	CHL	CBD-CGD	-2.32	1.49	1.52
29	8	304	LUT	C18-C5	2.32	1.54	1.50
29	4	302	LUT	C38-C25	2.32	1.54	1.50
29	8	303	LUT	C18-C5	2.32	1.54	1.50
29	8	303	LUT	C38-C25	2.32	1.54	1.50
27	A	843	CHL	CHD-C1D	2.31	1.43	1.39
24	5	324	LHG	O7-C5	-2.30	1.41	1.46
29	J	103	LUT	C38-C25	2.30	1.54	1.50
27	5	322	CHL	CHA-CBD	-2.30	1.49	1.51
29	6	303	LUT	C38-C25	2.30	1.54	1.50
23	B	810	LMT	O2B-C2B	-2.30	1.37	1.43
23	F	302	LMT	O2'-C2'	-2.30	1.37	1.43
27	B	838	CHL	MG-NB	2.30	2.10	2.05
27	A	846	CHL	CHC-C1C	2.29	1.43	1.39
29	6	303	LUT	C4-C5	2.29	1.54	1.51
27	3	311	CHL	CBD-CGD	-2.29	1.49	1.52
23	A	808	LMT	O3B-C3B	-2.29	1.37	1.43
23	A	808	LMT	O2B-C2B	-2.28	1.37	1.43
29	b	303	LUT	C14-C13	2.28	1.41	1.35
29	b	303	LUT	C30-C29	2.28	1.41	1.35
29	a	304	LUT	C38-C25	2.28	1.54	1.50
27	7	322	CHL	CHA-CBD	-2.28	1.49	1.51
27	4	316	CHL	CBD-CGD	-2.27	1.49	1.52
29	b	303	LUT	C34-C33	2.27	1.41	1.35
27	8	321	CHL	CHA-CBD	-2.27	1.49	1.51
27	8	324	CHL	CHA-CBD	-2.26	1.49	1.51
27	5	317	CHL	MG-ND	-2.26	2.01	2.05
23	5	306	LMT	O2B-C2B	-2.26	1.37	1.43
27	4	313	CHL	CHA-CBD	-2.26	1.49	1.51
27	b	311	CHL	CBD-CGD	-2.26	1.49	1.52
27	b	308	CHL	CHC-C4B	2.26	1.43	1.39
23	A	809	LMT	O2B-C2B	-2.26	1.37	1.43
27	A	836	CHL	CBD-CGD	-2.25	1.49	1.52
29	F	303	LUT	C38-C25	2.25	1.54	1.50
27	4	313	CHL	MG-NB	2.25	2.10	2.05
27	B	828	CHL	CBD-CGD	-2.25	1.49	1.52
23	F	302	LMT	O2B-C2B	-2.25	1.37	1.43
23	F	302	LMT	O1'-C1'	-2.25	1.36	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	3	304	LUT	C38-C25	2.25	1.54	1.50
27	5	321	CHL	MG-ND	2.25	2.10	2.05
34	8	301	SQD	O9-S	2.25	1.51	1.45
27	5	307	CHL	CBD-CGD	-2.25	1.49	1.52
27	B	821	CHL	MG-ND	2.25	2.10	2.05
23	A	808	LMT	O1'-C1'	-2.25	1.36	1.40
23	5	306	LMT	O3B-C3B	-2.25	1.37	1.43
29	7	304	LUT	C38-C25	2.24	1.54	1.50
27	4	315	CHL	CBD-CGD	-2.24	1.49	1.52
23	5	326	LMT	O3B-C3B	-2.24	1.37	1.43
27	5	322	CHL	CBD-CGD	-2.24	1.49	1.52
27	b	308	CHL	CHD-C1D	2.24	1.43	1.39
30	a	301	LMG	C4-C5	2.23	1.57	1.53
29	b	303	LUT	C32-C33	-2.23	1.41	1.46
30	a	301	LMG	O7-C8	-2.23	1.41	1.46
27	7	318	CHL	CBD-CGD	-2.23	1.49	1.52
23	B	810	LMT	O3B-C3B	-2.22	1.37	1.43
27	7	319	CHL	CHA-CBD	-2.22	1.49	1.51
29	3	305	LUT	C38-C25	2.22	1.54	1.50
27	8	324	CHL	CBD-CGD	-2.21	1.49	1.52
22	6	301	BCR	C21-C22	2.21	1.40	1.35
27	b	317	CHL	CBD-CGD	-2.21	1.49	1.52
23	7	308	LMT	O3B-C3B	-2.21	1.37	1.43
27	6	307	CHL	MG-NB	2.21	2.10	2.05
23	5	326	LMT	O1'-C1'	-2.21	1.36	1.40
27	5	318	CHL	CBD-CGD	-2.20	1.49	1.52
23	A	809	LMT	O3B-C3B	-2.19	1.37	1.43
27	A	846	CHL	CHA-CBD	-2.19	1.49	1.51
23	5	306	LMT	O4'-C4B	-2.19	1.37	1.43
27	A	834	CHL	MG-ND	2.18	2.10	2.05
24	A	810	LHG	O7-C5	-2.18	1.41	1.46
27	b	312	CHL	MG-ND	-2.18	2.01	2.05
23	7	308	LMT	O1'-C1'	-2.17	1.36	1.40
27	7	319	CHL	MG-NB	-2.17	2.01	2.05
24	A	811	LHG	P-O6	2.17	1.67	1.59
29	4	302	LUT	C18-C5	2.17	1.54	1.50
27	b	306	CHL	CBD-CGD	-2.16	1.49	1.52
23	5	306	LMT	O2'-C2'	-2.16	1.37	1.43
23	5	326	LMT	O4'-C4B	-2.16	1.37	1.43
24	A	811	LHG	O7-C5	-2.16	1.41	1.46
27	b	316	CHL	CBD-CGD	-2.15	1.49	1.52
27	a	313	CHL	MG-NB	-2.15	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	7	305	XAT	C10-C9	2.15	1.40	1.35
22	6	301	BCR	C14-C13	2.14	1.40	1.35
27	6	308	CHL	CHA-CBD	-2.14	1.49	1.51
27	6	318	CHL	CBD-CGD	-2.14	1.49	1.52
27	7	322	CHL	CBD-CGD	-2.14	1.49	1.52
27	a	318	CHL	CBD-CGD	-2.14	1.49	1.52
27	b	311	CHL	MG-ND	2.13	2.10	2.05
27	6	307	CHL	CHD-C1D	2.13	1.43	1.39
30	J	101	LMG	O7-C8	-2.13	1.41	1.46
34	8	301	SQD	O7-S	2.12	1.51	1.45
27	5	313	CHL	MG-NB	2.12	2.10	2.05
27	4	309	CHL	CBD-CGD	-2.12	1.49	1.52
27	3	311	CHL	MG-ND	2.12	2.10	2.05
30	J	104	LMG	C1-C2	2.12	1.58	1.52
27	A	839	CHL	MG-NB	2.11	2.10	2.05
27	B	847	CHL	CBD-CGD	-2.11	1.49	1.52
23	A	808	LMT	O4'-C4B	-2.11	1.37	1.43
27	b	314	CHL	MG-NB	2.11	2.10	2.05
23	F	302	LMT	O3B-C3B	-2.11	1.37	1.43
27	A	853	CHL	MG-ND	2.11	2.10	2.05
29	b	303	LUT	C28-C29	-2.10	1.41	1.46
22	6	301	BCR	C17-C18	2.10	1.40	1.35
27	B	843	CHL	CBD-CGD	-2.10	1.49	1.52
27	A	834	CHL	CBD-CGD	-2.10	1.49	1.52
27	A	843	CHL	CHD-C4C	2.09	1.43	1.39
33	7	305	XAT	C34-C33	2.09	1.40	1.35
33	7	305	XAT	C30-C29	2.08	1.40	1.35
29	b	303	LUT	C12-C13	-2.08	1.41	1.46
27	A	834	CHL	MG-NB	-2.08	2.01	2.05
24	7	302	LHG	O7-C5	-2.08	1.41	1.46
30	7	301	LMG	O8-C9	-2.08	1.40	1.45
33	7	305	XAT	C14-C13	2.08	1.40	1.35
27	6	307	CHL	CBD-CGD	-2.08	1.49	1.52
29	7	304	LUT	C4-C5	2.08	1.54	1.51
30	J	104	LMG	O7-C8	-2.08	1.41	1.46
27	4	314	CHL	CBD-CGD	-2.07	1.49	1.52
22	K	202	BCR	C38-C26	-2.07	1.47	1.50
27	A	818	CHL	MG-ND	2.07	2.09	2.05
27	B	820	CHL	MG-NB	-2.07	2.01	2.05
23	A	809	LMT	O1'-C1'	-2.07	1.36	1.40
27	A	832	CHL	MG-ND	2.06	2.09	2.05
30	J	101	LMG	O8-C9	-2.06	1.40	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	810	LMT	O4'-C4B	-2.06	1.37	1.43
30	7	301	LMG	O7-C8	-2.06	1.41	1.46
22	K	203	BCR	C33-C5	-2.06	1.47	1.50
27	4	311	CHL	CBD-CGD	-2.06	1.49	1.52
27	5	319	CHL	CBD-CGD	-2.05	1.49	1.52
22	6	301	BCR	C10-C9	2.05	1.40	1.35
27	B	820	CHL	CBD-CGD	-2.04	1.49	1.52
27	A	838	CHL	CBD-CGD	-2.04	1.49	1.52
27	K	204	CHL	CBD-CGD	-2.04	1.49	1.52
27	B	851	CHL	CBD-CGD	-2.04	1.49	1.52
27	6	319	CHL	MG-ND	-2.03	2.01	2.05
29	5	303	LUT	C4-C5	2.03	1.54	1.51
27	5	313	CHL	CHD-C1D	2.03	1.42	1.39
27	A	859	CHL	CBD-CGD	-2.03	1.49	1.52
27	6	305	CHL	MG-NB	-2.03	2.01	2.05
23	5	306	LMT	O1'-C1'	-2.03	1.36	1.40
27	B	830	CHL	CBD-CGD	-2.03	1.49	1.52
27	4	304	CHL	CBD-CGD	-2.03	1.49	1.52
27	B	841	CHL	CBD-CGD	-2.03	1.50	1.52
27	B	842	CHL	CBD-CGD	-2.02	1.50	1.52
29	8	304	LUT	C4-C5	2.02	1.54	1.51
27	5	317	CHL	CBD-CGD	-2.02	1.50	1.52
24	A	810	LHG	P-O6	2.02	1.67	1.59
27	B	816	CHL	MG-ND	-2.01	2.01	2.05
27	7	313	CHL	CBD-CGD	-2.01	1.50	1.52
23	F	302	LMT	O4'-C4B	-2.01	1.38	1.43
24	7	302	LHG	P-O6	2.01	1.67	1.59
27	A	856	CHL	CBD-CGD	-2.00	1.50	1.52
27	5	320	CHL	MG-ND	2.00	2.09	2.05
29	F	303	LUT	C4-C5	2.00	1.54	1.51

All (3994) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	5	315	CHL	C4-C3-C5	-19.33	81.67	115.23
27	A	843	CHL	O2A-CGA-O1A	-18.05	78.49	123.63
27	5	315	CHL	C4-C3-C2	-17.43	78.86	123.63
27	5	315	CHL	C5-C3-C2	17.43	160.28	121.17
29	7	304	LUT	C15-C14-C13	-17.09	103.31	127.28
27	b	308	CHL	C1B-CHB-C4A	16.76	132.10	121.32
27	5	313	CHL	C4D-ND-C1D	-15.27	93.63	105.22
27	6	307	CHL	C4D-ND-C1D	-15.24	93.65	105.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	L	303	CHL	C4D-ND-C1D	-15.19	93.69	105.22
29	J	103	LUT	C15-C35-C34	15.00	154.22	123.52
27	A	843	CHL	O2A-CGA-CBA	14.99	157.54	111.83
29	8	304	LUT	C18-C5-C6	-14.93	108.19	124.48
27	A	831	CHL	C4D-ND-C1D	-14.92	93.90	105.22
27	A	844	CHL	C1B-CHB-C4A	14.87	130.88	121.32
29	3	305	LUT	C15-C14-C13	-14.76	106.57	127.28
29	8	304	LUT	C15-C14-C13	-14.68	106.69	127.28
27	b	308	CHL	CMB-C2B-C3B	14.52	153.69	124.68
29	a	304	LUT	C18-C5-C6	-14.42	108.75	124.48
29	5	303	LUT	C15-C35-C34	14.29	152.76	123.52
27	A	846	CHL	C4D-ND-C1D	-14.21	94.43	105.22
29	a	304	LUT	C15-C35-C34	14.08	152.33	123.52
27	A	852	CHL	C1B-CHB-C4A	13.95	130.29	121.32
27	A	840	CHL	C1B-CHB-C4A	13.77	130.18	121.32
27	A	835	CHL	C1B-CHB-C4A	13.54	130.03	121.32
27	B	832	CHL	C1B-CHB-C4A	13.50	130.00	121.32
27	8	313	CHL	C1B-CHB-C4A	13.41	129.95	121.32
27	a	309	CHL	C1B-CHB-C4A	13.34	129.90	121.32
27	5	323	CHL	C1B-CHB-C4A	13.32	129.89	121.32
27	B	826	CHL	C1B-CHB-C4A	13.30	129.88	121.32
27	A	829	CHL	C1B-CHB-C4A	13.23	129.83	121.32
29	a	304	LUT	C27-C28-C29	13.13	154.56	126.32
27	B	817	CHL	C1B-CHB-C4A	13.13	129.77	121.32
29	F	303	LUT	C18-C5-C6	-13.12	110.17	124.48
27	A	853	CHL	C1B-CHB-C4A	13.11	129.76	121.32
27	8	326	CHL	C1B-CHB-C4A	13.07	129.73	121.32
27	A	832	CHL	C1B-CHB-C4A	13.02	129.70	121.32
27	F	309	CHL	C1B-CHB-C4A	13.01	129.69	121.32
27	A	821	CHL	C1B-CHB-C4A	12.98	129.67	121.32
29	6	303	LUT	C15-C35-C34	12.98	150.08	123.52
29	F	303	LUT	C15-C35-C34	12.93	149.98	123.52
27	B	818	CHL	C1B-CHB-C4A	12.93	129.64	121.32
29	3	305	LUT	C11-C10-C9	-12.85	109.25	127.28
27	A	857	CHL	C1B-CHB-C4A	12.82	129.57	121.32
27	B	837	CHL	C1B-CHB-C4A	12.81	129.56	121.32
29	6	302	LUT	C18-C5-C6	-12.77	110.55	124.48
27	B	814	CHL	C1B-CHB-C4A	12.77	129.54	121.32
29	6	302	LUT	C15-C14-C13	-12.75	109.40	127.28
29	3	304	LUT	C15-C14-C13	-12.74	109.41	127.28
27	3	319	CHL	C1B-CHB-C4A	12.74	129.52	121.32
27	5	309	CHL	C1B-CHB-C4A	12.72	129.51	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	6	311	CHL	C1B-CHB-C4A	12.72	129.51	121.32
29	3	305	LUT	C18-C5-C6	-12.72	110.60	124.48
27	A	854	CHL	C1B-CHB-C4A	12.70	129.49	121.32
29	8	303	LUT	C18-C5-C6	-12.68	110.65	124.48
27	B	840	CHL	C1B-CHB-C4A	12.63	129.45	121.32
27	B	825	CHL	C1B-CHB-C4A	12.63	129.45	121.32
27	A	843	CHL	C4D-ND-C1D	-12.58	95.67	105.22
29	5	302	LUT	C15-C35-C34	12.57	149.24	123.52
29	a	302	LUT	C15-C14-C13	-12.57	109.65	127.28
29	4	301	LUT	C15-C35-C34	12.54	149.17	123.52
27	5	310	CHL	C1B-CHB-C4A	12.51	129.37	121.32
27	3	321	CHL	C1B-CHB-C4A	12.50	129.37	121.32
29	4	302	LUT	C18-C5-C6	-12.49	110.86	124.48
27	A	851	CHL	C1B-CHB-C4A	12.47	129.35	121.32
27	B	834	CHL	C1B-CHB-C4A	12.47	129.34	121.32
27	B	838	CHL	C1B-CHB-C4A	12.45	129.33	121.32
27	7	313	CHL	C1B-CHB-C4A	12.43	129.32	121.32
29	b	301	LUT	C15-C35-C34	12.40	148.90	123.52
27	B	830	CHL	C1B-CHB-C4A	12.39	129.29	121.32
27	A	819	CHL	C1B-CHB-C4A	12.38	129.28	121.32
27	B	845	CHL	C1B-CHB-C4A	12.33	129.25	121.32
27	B	822	CHL	C1B-CHB-C4A	12.30	129.24	121.32
27	A	818	CHL	C1B-CHB-C4A	12.29	129.23	121.32
27	B	821	CHL	C1B-CHB-C4A	12.26	129.21	121.32
27	A	816	CHL	C1B-CHB-C4A	12.26	129.21	121.32
27	B	839	CHL	C1B-CHB-C4A	12.23	129.19	121.32
27	3	309	CHL	C1B-CHB-C4A	12.23	129.19	121.32
27	8	320	CHL	C1B-CHB-C4A	12.22	129.19	121.32
29	4	302	LUT	C15-C35-C34	12.21	148.51	123.52
27	3	312	CHL	C1B-CHB-C4A	12.19	129.16	121.32
27	A	826	CHL	C1B-CHB-C4A	12.17	129.15	121.32
29	4	301	LUT	C15-C14-C13	-12.17	110.21	127.28
27	8	319	CHL	C1B-CHB-C4A	12.17	129.15	121.32
27	7	318	CHL	C1B-CHB-C4A	12.16	129.15	121.32
27	b	312	CHL	C1B-CHB-C4A	12.16	129.14	121.32
27	8	315	CHL	C1B-CHB-C4A	12.15	129.14	121.32
29	8	303	LUT	C15-C14-C13	-12.15	110.24	127.28
27	b	315	CHL	C1B-CHB-C4A	12.13	129.12	121.32
27	7	323	CHL	C1B-CHB-C4A	12.12	129.12	121.32
29	6	302	LUT	C15-C35-C34	12.11	148.29	123.52
27	A	855	CHL	C1B-CHB-C4A	12.09	129.10	121.32
27	A	845	CHL	C1B-CHB-C4A	12.08	129.09	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	K	204	CHL	C1B-CHB-C4A	12.07	129.09	121.32
27	5	314	CHL	C1B-CHB-C4A	12.05	129.07	121.32
27	6	312	CHL	C1B-CHB-C4A	12.04	129.07	121.32
27	A	825	CHL	C1B-CHB-C4A	12.04	129.06	121.32
27	A	858	CHL	C1B-CHB-C4A	12.02	129.06	121.32
27	B	820	CHL	C1B-CHB-C4A	12.01	129.05	121.32
27	A	856	CHL	C1B-CHB-C4A	11.99	129.04	121.32
29	3	304	LUT	C11-C10-C9	-11.98	110.47	127.28
27	a	318	CHL	C1B-CHB-C4A	11.96	129.01	121.32
29	a	302	LUT	C15-C35-C34	11.95	147.96	123.52
27	B	848	CHL	C1B-CHB-C4A	11.94	129.00	121.32
27	A	827	CHL	C1B-CHB-C4A	11.94	129.00	121.32
27	B	835	CHL	C1B-CHB-C4A	11.92	128.99	121.32
27	A	830	CHL	C1B-CHB-C4A	11.90	128.98	121.32
27	B	811	CHL	C1B-CHB-C4A	11.88	128.97	121.32
29	5	302	LUT	C15-C14-C13	-11.88	110.62	127.28
29	6	303	LUT	C18-C5-C6	-11.87	111.53	124.48
29	6	302	LUT	C27-C28-C29	11.85	151.81	126.32
27	a	311	CHL	C1B-CHB-C4A	11.84	128.94	121.32
27	7	319	CHL	C1B-CHB-C4A	11.84	128.94	121.32
27	7	321	CHL	O2D-CGD-CBD	11.82	123.94	110.95
27	3	311	CHL	C1B-CHB-C4A	11.82	128.93	121.32
27	B	815	CHL	C1B-CHB-C4A	11.82	128.92	121.32
27	A	847	CHL	C1B-CHB-C4A	11.81	128.92	121.32
27	B	816	CHL	C1B-CHB-C4A	11.79	128.91	121.32
29	4	301	LUT	C27-C28-C29	11.79	151.68	126.32
29	8	303	LUT	C15-C35-C34	11.77	147.61	123.52
27	a	310	CHL	C1B-CHB-C4A	11.77	128.89	121.32
27	8	318	CHL	C1B-CHB-C4A	11.77	128.89	121.32
29	a	302	LUT	C11-C10-C9	-11.76	110.78	127.28
27	8	317	CHL	C1B-CHB-C4A	11.72	128.87	121.32
27	7	317	CHL	C1B-CHB-C4A	11.71	128.85	121.32
27	F	308	CHL	C1B-CHB-C4A	11.70	128.85	121.32
27	A	850	CHL	C1B-CHB-C4A	11.70	128.85	121.32
27	A	822	CHL	C1B-CHB-C4A	11.70	128.85	121.32
27	B	836	CHL	C1B-CHB-C4A	11.68	128.84	121.32
27	4	320	CHL	C1B-CHB-C4A	11.68	128.84	121.32
29	5	303	LUT	C31-C30-C29	-11.66	110.92	127.28
29	b	301	LUT	C11-C10-C9	-11.66	110.93	127.28
27	7	322	CHL	C1B-CHB-C4A	11.65	128.82	121.32
27	3	313	CHL	C1B-CHB-C4A	11.65	128.81	121.32
27	B	819	CHL	C1B-CHB-C4A	11.64	128.81	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	b	301	LUT	C18-C5-C6	-11.64	111.78	124.48
27	5	315	CHL	C1B-CHB-C4A	11.64	128.81	121.32
29	a	304	LUT	C11-C10-C9	-11.63	110.96	127.28
27	A	820	CHL	C1B-CHB-C4A	11.63	128.80	121.32
27	B	849	CHL	C1B-CHB-C4A	11.63	128.80	121.32
27	B	823	CHL	C1B-CHB-C4A	11.63	128.80	121.32
27	B	813	CHL	C1B-CHB-C4A	11.62	128.80	121.32
27	3	318	CHL	C1B-CHB-C4A	11.61	128.79	121.32
27	J	106	CHL	C1B-CHB-C4A	11.59	128.78	121.32
29	b	301	LUT	C27-C28-C29	11.58	151.24	126.32
27	b	307	CHL	C1B-CHB-C4A	11.56	128.76	121.32
27	A	848	CHL	C1B-CHB-C4A	11.54	128.75	121.32
27	7	320	CHL	O2D-CGD-CBD	11.54	123.62	110.95
29	8	304	LUT	C27-C28-C29	11.52	151.09	126.32
27	7	322	CHL	O2D-CGD-CBD	11.51	123.60	110.95
27	A	823	CHL	C1B-CHB-C4A	11.45	128.69	121.32
27	7	314	CHL	C1B-CHB-C4A	11.44	128.68	121.32
27	5	322	CHL	C1B-CHB-C4A	11.44	128.68	121.32
27	7	316	CHL	C1B-CHB-C4A	11.43	128.68	121.32
29	F	303	LUT	C11-C10-C9	-11.42	111.26	127.28
27	a	320	CHL	C1B-CHB-C4A	11.42	128.67	121.32
27	A	828	CHL	C1B-CHB-C4A	11.42	128.67	121.32
29	6	303	LUT	C27-C28-C29	11.40	150.84	126.32
29	8	304	LUT	C31-C30-C29	-11.39	111.31	127.28
27	A	843	CHL	O1A-CGA-CBA	-11.38	79.27	123.78
29	3	305	LUT	C27-C28-C29	11.36	150.77	126.32
27	6	317	CHL	O2D-CGD-CBD	11.35	123.42	110.95
27	5	310	CHL	O2D-CGD-CBD	11.34	123.41	110.95
27	3	317	CHL	C1B-CHB-C4A	11.32	128.60	121.32
29	5	302	LUT	C18-C5-C6	-11.30	112.15	124.48
27	8	316	CHL	C1B-CHB-C4A	11.30	128.59	121.32
27	5	311	CHL	C1B-CHB-C4A	11.30	128.59	121.32
29	3	304	LUT	C15-C35-C34	11.29	146.62	123.52
29	6	302	LUT	C31-C30-C29	-11.27	111.47	127.28
27	8	322	CHL	C1B-CHB-C4A	11.26	128.57	121.32
29	6	302	LUT	C31-C32-C33	11.26	157.23	126.36
29	5	303	LUT	C18-C5-C6	-11.25	112.21	124.48
27	4	313	CHL	C1B-CHB-C4A	11.23	128.54	121.32
27	B	844	CHL	C1B-CHB-C4A	11.18	128.51	121.32
27	A	824	CHL	C1B-CHB-C4A	11.17	128.51	121.32
27	6	310	CHL	C1B-CHB-C4A	11.17	128.51	121.32
29	4	302	LUT	C27-C28-C29	11.15	150.30	126.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	3	320	CHL	C1B-CHB-C4A	11.14	128.49	121.32
27	B	841	CHL	C1B-CHB-C4A	11.14	128.49	121.32
27	A	817	CHL	C1B-CHB-C4A	11.13	128.49	121.32
29	J	103	LUT	C15-C14-C13	-11.13	111.67	127.28
27	A	838	CHL	C1B-CHB-C4A	11.12	128.47	121.32
29	8	304	LUT	C15-C35-C34	11.11	146.25	123.52
27	a	307	CHL	C1B-CHB-C4A	11.09	128.46	121.32
29	J	103	LUT	C18-C5-C6	-11.08	112.39	124.48
27	K	205	CHL	C1B-CHB-C4A	11.08	128.45	121.32
27	B	842	CHL	C1B-CHB-C4A	11.08	128.45	121.32
27	8	321	CHL	C1B-CHB-C4A	11.05	128.43	121.32
29	5	302	LUT	C11-C10-C9	-11.05	111.78	127.28
29	4	301	LUT	C18-C5-C6	-11.05	112.43	124.48
27	3	310	CHL	C1B-CHB-C4A	11.04	128.43	121.32
29	J	103	LUT	C31-C30-C29	-11.04	111.80	127.28
27	8	324	CHL	C1B-CHB-C4A	11.02	128.41	121.32
27	7	315	CHL	C1B-CHB-C4A	11.01	128.41	121.32
29	J	103	LUT	C11-C10-C9	-11.01	111.84	127.28
29	5	302	LUT	C27-C28-C29	10.99	149.97	126.32
27	4	307	CHL	C1B-CHB-C4A	10.97	128.38	121.32
27	B	846	CHL	C1B-CHB-C4A	10.93	128.36	121.32
27	4	308	CHL	C1B-CHB-C4A	10.92	128.35	121.32
27	6	305	CHL	C1B-CHB-C4A	10.92	128.35	121.32
29	8	303	LUT	C27-C28-C29	10.92	149.81	126.32
29	b	301	LUT	C15-C14-C13	-10.91	111.98	127.28
29	b	301	LUT	C31-C30-C29	-10.90	111.98	127.28
27	6	306	CHL	C1B-CHB-C4A	10.89	128.33	121.32
27	B	827	CHL	C1B-CHB-C4A	10.89	128.33	121.32
29	4	301	LUT	C11-C10-C9	-10.87	112.03	127.28
29	5	303	LUT	C11-C10-C9	-10.87	112.04	127.28
27	3	308	CHL	C1B-CHB-C4A	10.86	128.31	121.32
27	B	829	CHL	C1B-CHB-C4A	10.86	128.31	121.32
29	F	303	LUT	C27-C28-C29	10.86	149.68	126.32
29	5	303	LUT	C27-C28-C29	10.85	149.66	126.32
29	a	302	LUT	C27-C28-C29	10.84	149.65	126.32
29	3	304	LUT	C27-C28-C29	10.84	149.64	126.32
27	7	312	CHL	C1B-CHB-C4A	10.82	128.28	121.32
29	6	302	LUT	C11-C10-C9	-10.82	112.11	127.28
27	B	843	CHL	C1B-CHB-C4A	10.80	128.27	121.32
27	a	317	CHL	C1B-CHB-C4A	10.80	128.27	121.32
26	A	815	CL0	C4D-ND-C1D	-10.80	97.03	105.22
27	5	308	CHL	C1B-CHB-C4A	10.77	128.25	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	8	325	CHL	C1B-CHB-C4A	10.76	128.24	121.32
29	7	304	LUT	C31-C30-C29	-10.75	112.19	127.28
27	4	314	CHL	C1B-CHB-C4A	10.74	128.23	121.32
29	7	304	LUT	C15-C35-C34	10.74	145.49	123.52
29	6	303	LUT	C15-C14-C13	-10.73	112.23	127.28
27	4	306	CHL	C1B-CHB-C4A	10.72	128.22	121.32
29	5	303	LUT	C11-C12-C13	10.72	155.75	126.36
27	4	311	CHL	C1B-CHB-C4A	10.71	128.21	121.32
29	3	304	LUT	C18-C5-C6	-10.69	112.82	124.48
27	4	304	CHL	C1B-CHB-C4A	10.67	128.19	121.32
29	a	302	LUT	C18-C5-C6	-10.67	112.84	124.48
27	A	837	CHL	C1B-CHB-C4A	10.65	128.18	121.32
27	6	316	CHL	O2D-CGD-CBD	10.65	122.65	110.95
27	5	316	CHL	O2D-CGD-CBD	10.63	122.63	110.95
29	a	304	LUT	C31-C30-C29	-10.63	112.38	127.28
27	8	312	CHL	C1B-CHB-C4A	10.63	128.16	121.32
29	F	303	LUT	C11-C12-C13	10.62	155.49	126.36
27	B	850	CHL	C1B-CHB-C4A	10.60	128.14	121.32
27	3	315	CHL	C1B-CHB-C4A	10.60	128.14	121.32
27	7	311	CHL	C1B-CHB-C4A	10.59	128.14	121.32
29	3	305	LUT	C15-C35-C34	10.59	145.18	123.52
27	8	314	CHL	C1B-CHB-C4A	10.58	128.13	121.32
29	4	302	LUT	C11-C10-C9	-10.57	112.46	127.28
27	B	811	CHL	O2D-CGD-CBD	10.56	122.55	110.95
29	3	305	LUT	C31-C30-C29	-10.55	112.48	127.28
27	4	315	CHL	C1B-CHB-C4A	10.51	128.08	121.32
27	4	307	CHL	O2D-CGD-CBD	10.50	122.49	110.95
27	A	858	CHL	O2D-CGD-CBD	10.47	122.46	110.95
27	a	313	CHL	O2D-CGD-CBD	10.47	122.45	110.95
27	A	859	CHL	C1B-CHB-C4A	10.47	128.06	121.32
27	A	834	CHL	C1B-CHB-C4A	10.46	128.05	121.32
29	8	303	LUT	C31-C30-C29	-10.46	112.60	127.28
29	F	303	LUT	C31-C30-C29	-10.46	112.61	127.28
29	4	302	LUT	C15-C14-C13	-10.45	112.62	127.28
27	A	839	CHL	C1B-CHB-C4A	10.44	128.04	121.32
27	6	309	CHL	C1B-CHB-C4A	10.44	128.04	121.32
27	A	830	CHL	O2D-CGD-CBD	10.44	122.42	110.95
29	a	304	LUT	C35-C34-C33	-10.43	112.65	127.28
29	6	303	LUT	C31-C30-C29	-10.43	112.66	127.28
29	5	302	LUT	C31-C30-C29	-10.41	112.68	127.28
27	B	851	CHL	C1B-CHB-C4A	10.39	128.01	121.32
27	5	318	CHL	C1B-CHB-C4A	10.33	127.97	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	7	304	LUT	C27-C28-C29	10.30	148.48	126.32
27	L	304	CHL	C1B-CHB-C4A	10.27	127.93	121.32
27	6	311	CHL	O2D-CGD-CBD	10.27	122.23	110.95
27	K	206	CHL	C1B-CHB-C4A	10.18	127.87	121.32
27	6	307	CHL	O2D-CGD-CBD	10.17	122.12	110.95
29	a	302	LUT	C31-C30-C29	-10.15	113.05	127.28
27	B	824	CHL	C1B-CHB-C4A	10.14	127.84	121.32
27	3	316	CHL	C1B-CHB-C4A	10.13	127.84	121.32
27	B	833	CHL	C1B-CHB-C4A	10.11	127.83	121.32
29	5	303	LUT	C35-C34-C33	-10.09	113.12	127.28
29	a	304	LUT	C31-C32-C33	10.09	154.04	126.36
27	a	314	CHL	C1B-CHB-C4A	10.09	127.81	121.32
27	5	307	CHL	C1B-CHB-C4A	10.09	127.81	121.32
29	8	303	LUT	C11-C10-C9	-10.09	113.12	127.28
27	a	308	CHL	C1B-CHB-C4A	10.05	127.79	121.32
29	J	103	LUT	C27-C28-C29	10.05	147.94	126.32
27	6	317	CHL	C1B-CHB-C4A	10.03	127.77	121.32
27	6	313	CHL	C1B-CHB-C4A	10.02	127.77	121.32
27	b	306	CHL	C1B-CHB-C4A	10.02	127.77	121.32
29	4	302	LUT	C11-C12-C13	10.01	153.82	126.36
27	6	315	CHL	O2D-CGD-CBD	10.01	121.94	110.95
29	4	301	LUT	C31-C30-C29	-10.01	113.25	127.28
29	J	103	LUT	C11-C12-C13	10.00	153.77	126.36
26	A	815	CL0	O2D-CGD-CBD	10.00	121.93	110.95
27	b	317	CHL	C1B-CHB-C4A	9.99	127.75	121.32
27	A	842	CHL	C1B-CHB-C4A	9.98	127.74	121.32
29	7	304	LUT	C11-C10-C9	-9.98	113.28	127.28
27	3	310	CHL	O2D-CGD-CBD	9.98	121.91	110.95
27	B	831	CHL	C1B-CHB-C4A	9.97	127.73	121.32
27	3	314	CHL	O2D-CGD-CBD	9.95	121.88	110.95
29	3	304	LUT	C31-C32-C33	9.91	153.54	126.36
29	3	305	LUT	C31-C32-C33	9.90	153.52	126.36
27	a	311	CHL	O2D-CGD-CBD	9.90	121.83	110.95
29	4	301	LUT	C31-C32-C33	9.88	153.45	126.36
27	5	319	CHL	C1B-CHB-C4A	9.88	127.68	121.32
27	7	320	CHL	C1B-CHB-C4A	9.87	127.67	121.32
27	B	847	CHL	C1B-CHB-C4A	9.87	127.67	121.32
27	4	319	CHL	O2D-CGD-CBD	9.86	121.78	110.95
27	B	812	CHL	O2D-CGD-CBD	9.85	121.77	110.95
27	a	312	CHL	C1B-CHB-C4A	9.84	127.65	121.32
29	3	304	LUT	C31-C30-C29	-9.81	113.52	127.28
27	L	303	CHL	O2D-CGD-CBD	9.81	121.72	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	837	CHL	O2D-CGD-CBD	9.81	121.72	110.95
29	a	302	LUT	C31-C32-C33	9.74	153.07	126.36
29	6	303	LUT	C11-C12-C13	9.73	153.03	126.36
27	a	309	CHL	O2D-CGD-CBD	9.72	121.63	110.95
29	7	304	LUT	C18-C5-C6	-9.72	113.88	124.48
27	4	305	CHL	C1B-CHB-C4A	9.69	127.55	121.32
27	B	836	CHL	O2D-CGD-CBD	9.67	121.57	110.95
29	6	303	LUT	C31-C32-C33	9.65	152.82	126.36
27	B	835	CHL	O2D-CGD-CBD	9.64	121.54	110.95
27	3	308	CHL	O2D-CGD-CBD	9.64	121.54	110.95
29	5	303	LUT	C15-C14-C13	-9.63	113.77	127.28
27	5	322	CHL	O2D-CGD-CBD	9.63	121.53	110.95
27	A	844	CHL	O2D-CGD-CBD	9.61	121.50	110.95
27	5	312	CHL	C1B-CHB-C4A	9.59	127.49	121.32
27	A	846	CHL	O2D-CGD-CBD	9.59	121.48	110.95
27	A	856	CHL	O2D-CGD-CBD	9.59	121.48	110.95
29	8	304	LUT	C11-C10-C9	-9.56	113.87	127.28
27	b	311	CHL	C1B-CHB-C4A	9.56	127.47	121.32
27	4	311	CHL	O2D-CGD-CBD	9.55	121.44	110.95
27	B	831	CHL	O2D-CGD-CBD	9.55	121.44	110.95
27	B	821	CHL	O2D-CGD-CBD	9.52	121.41	110.95
27	8	311	CHL	C1B-CHB-C4A	9.52	127.45	121.32
27	4	306	CHL	O2D-CGD-CBD	9.49	121.38	110.95
29	5	302	LUT	C35-C34-C33	-9.48	113.98	127.28
27	6	316	CHL	C1B-CHB-C4A	9.44	127.39	121.32
27	K	207	CHL	C1B-CHB-C4A	9.43	127.39	121.32
29	7	304	LUT	C11-C12-C13	9.42	152.20	126.36
27	5	307	CHL	O2D-CGD-CBD	9.42	121.30	110.95
27	b	305	CHL	O2D-CGD-CBD	9.39	121.27	110.95
27	6	314	CHL	C1B-CHB-C4A	9.39	127.36	121.32
27	8	326	CHL	O2D-CGD-CBD	9.36	121.23	110.95
29	4	302	LUT	C31-C30-C29	-9.34	114.17	127.28
27	5	317	CHL	C1B-CHB-C4A	9.33	127.33	121.32
27	7	324	CHL	O2D-CGD-CBD	9.32	121.19	110.95
29	7	304	LUT	C31-C32-C33	9.32	151.91	126.36
27	a	315	CHL	C1B-CHB-C4A	9.31	127.31	121.32
29	b	301	LUT	C31-C32-C33	9.31	151.89	126.36
27	a	319	CHL	C1B-CHB-C4A	9.31	127.31	121.32
27	7	324	CHL	C1B-CHB-C4A	9.30	127.30	121.32
29	a	304	LUT	C11-C12-C13	9.29	151.84	126.36
27	7	317	CHL	O2D-CGD-CBD	9.29	121.15	110.95
27	A	847	CHL	O2D-CGD-CBD	9.28	121.15	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	a	320	CHL	O2D-CGD-CBD	9.28	121.15	110.95
27	4	310	CHL	O2D-CGD-CBD	9.27	121.14	110.95
27	A	853	CHL	O2D-CGD-CBD	9.27	121.13	110.95
27	5	315	CHL	O2D-CGD-CBD	9.26	121.12	110.95
29	a	304	LUT	C15-C14-C13	-9.25	114.31	127.28
27	a	318	CHL	O2D-CGD-CBD	9.25	121.11	110.95
29	5	302	LUT	C31-C32-C33	9.24	151.69	126.36
27	6	320	CHL	C1B-CHB-C4A	9.24	127.27	121.32
27	6	308	CHL	C1B-CHB-C4A	9.23	127.26	121.32
29	J	103	LUT	C31-C32-C33	9.22	151.65	126.36
27	6	308	CHL	O2D-CGD-CBD	9.22	121.08	110.95
27	4	313	CHL	O2D-CGD-CBD	9.22	121.08	110.95
29	F	303	LUT	C35-C34-C33	-9.19	114.39	127.28
27	3	316	CHL	O2D-CGD-CBD	9.19	121.04	110.95
27	B	814	CHL	O2D-CGD-CBD	9.18	121.03	110.95
27	a	307	CHL	O2D-CGD-CBD	9.15	121.00	110.95
27	b	310	CHL	O2D-CGD-CBD	9.15	121.00	110.95
27	B	839	CHL	O2D-CGD-CBD	9.12	120.97	110.95
29	6	303	LUT	C11-C10-C9	-9.12	114.49	127.28
29	4	301	LUT	C35-C34-C33	-9.11	114.50	127.28
29	5	303	LUT	C31-C32-C33	9.11	151.33	126.36
29	b	301	LUT	C11-C12-C13	9.10	151.31	126.36
27	A	817	CHL	O2D-CGD-CBD	9.10	120.94	110.95
27	a	314	CHL	O2D-CGD-CBD	9.10	120.94	110.95
27	6	318	CHL	C1B-CHB-C4A	9.06	127.15	121.32
27	b	311	CHL	O2D-CGD-CBD	9.06	120.90	110.95
27	6	306	CHL	O2D-CGD-CBD	9.05	120.89	110.95
27	8	323	CHL	O2D-CGD-CBD	9.04	120.88	110.95
27	B	848	CHL	O2D-CGD-CBD	9.03	120.87	110.95
27	7	312	CHL	O2D-CGD-CBD	9.02	120.86	110.95
27	4	304	CHL	O2D-CGD-CBD	9.02	120.86	110.95
27	B	843	CHL	O2D-CGD-CBD	9.01	120.85	110.95
27	A	825	CHL	O2D-CGD-CBD	9.00	120.84	110.95
27	A	821	CHL	O2D-CGD-CBD	9.00	120.84	110.95
29	F	303	LUT	C31-C32-C33	8.98	150.98	126.36
27	A	839	CHL	O2D-CGD-CBD	8.97	120.81	110.95
27	B	818	CHL	O2D-CGD-CBD	8.97	120.80	110.95
27	8	312	CHL	O2D-CGD-CBD	8.96	120.79	110.95
27	B	845	CHL	O2D-CGD-CBD	8.95	120.78	110.95
27	A	854	CHL	O2D-CGD-CBD	8.95	120.78	110.95
27	A	841	CHL	C1B-CHB-C4A	8.92	127.06	121.32
27	A	850	CHL	O2D-CGD-CBD	8.91	120.74	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	838	CHL	O2D-CGD-CBD	8.91	120.74	110.95
27	B	825	CHL	O2D-CGD-CBD	8.91	120.73	110.95
27	b	309	CHL	O2D-CGD-CBD	8.89	120.72	110.95
29	8	304	LUT	C31-C32-C33	8.89	150.75	126.36
27	b	313	CHL	O2D-CGD-CBD	8.86	120.68	110.95
27	A	852	CHL	O2D-CGD-CBD	8.86	120.68	110.95
27	5	325	CHL	C1B-CHB-C4A	8.85	127.02	121.32
27	a	319	CHL	O2D-CGD-CBD	8.85	120.67	110.95
27	a	317	CHL	O2D-CGD-CBD	8.84	120.67	110.95
27	3	321	CHL	O2D-CGD-CBD	8.84	120.66	110.95
27	A	836	CHL	C1B-CHB-C4A	8.83	127.00	121.32
27	6	314	CHL	O2D-CGD-CBD	8.82	120.64	110.95
27	b	313	CHL	C1B-CHB-C4A	8.82	127.00	121.32
27	8	322	CHL	O2D-CGD-CBD	8.82	120.64	110.95
27	J	106	CHL	O2D-CGD-CBD	8.81	120.63	110.95
27	6	318	CHL	O2D-CGD-CBD	8.81	120.62	110.95
27	A	838	CHL	O2D-CGD-CBD	8.80	120.61	110.95
27	A	849	CHL	O2D-CGD-CBD	8.79	120.60	110.95
27	B	850	CHL	O2D-CGD-CBD	8.78	120.59	110.95
27	3	319	CHL	O2D-CGD-CBD	8.78	120.59	110.95
27	3	312	CHL	O2D-CGD-CBD	8.78	120.59	110.95
27	5	313	CHL	O2D-CGD-CBD	8.78	120.59	110.95
27	4	305	CHL	O2D-CGD-CBD	8.75	120.56	110.95
27	B	849	CHL	O2D-CGD-CBD	8.73	120.54	110.95
29	F	303	LUT	C15-C14-C13	-8.72	115.05	127.28
27	8	311	CHL	O2D-CGD-CBD	8.72	120.53	110.95
29	4	302	LUT	C1-C6-C5	-8.72	110.72	122.64
27	5	323	CHL	O2D-CGD-CBD	8.71	120.52	110.95
29	F	303	LUT	C19-C9-C10	-8.69	108.74	122.82
27	B	828	CHL	O2D-CGD-CBD	8.68	120.49	110.95
27	B	815	CHL	O2D-CGD-CBD	8.68	120.48	110.95
27	A	857	CHL	O2D-CGD-CBD	8.68	120.48	110.95
27	4	312	CHL	O2D-CGD-CBD	8.68	120.48	110.95
29	6	302	LUT	C11-C12-C13	8.67	150.14	126.36
29	8	303	LUT	C31-C32-C33	8.66	150.12	126.36
27	5	309	CHL	O2D-CGD-CBD	8.65	120.45	110.95
29	5	302	LUT	C11-C12-C13	8.65	150.09	126.36
27	7	321	CHL	C1B-CHB-C4A	8.64	126.88	121.32
27	5	311	CHL	O2D-CGD-CBD	8.64	120.44	110.95
27	b	312	CHL	O2D-CGD-CBD	8.63	120.43	110.95
27	A	826	CHL	O2D-CGD-CBD	8.62	120.42	110.95
29	J	103	LUT	C39-C29-C30	-8.62	108.85	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	817	CHL	O2D-CGD-CBD	8.61	120.41	110.95
27	7	313	CHL	O2D-CGD-CBD	8.60	120.40	110.95
27	a	316	CHL	O2D-CGD-CBD	8.59	120.38	110.95
27	b	304	CHL	O2D-CGD-CBD	8.57	120.36	110.95
29	4	302	LUT	C31-C32-C33	8.56	149.83	126.36
27	3	311	CHL	O2D-CGD-CBD	8.56	120.35	110.95
27	A	818	CHL	O2D-CGD-CBD	8.56	120.35	110.95
27	A	851	CHL	O2D-CGD-CBD	8.53	120.32	110.95
29	8	303	LUT	C11-C12-C13	8.53	149.75	126.36
29	a	302	LUT	C11-C12-C13	8.52	149.72	126.36
27	b	314	CHL	O2D-CGD-CBD	8.51	120.30	110.95
27	A	833	CHL	O2D-CGD-CBD	8.50	120.28	110.95
27	A	816	CHL	O2D-CGD-CBD	8.49	120.28	110.95
27	7	316	CHL	O2D-CGD-CBD	8.49	120.28	110.95
27	B	830	CHL	O2D-CGD-CBD	8.49	120.27	110.95
27	4	318	CHL	O2D-CGD-CBD	8.48	120.27	110.95
27	F	308	CHL	O2D-CGD-CBD	8.45	120.24	110.95
29	6	303	LUT	C35-C34-C33	-8.45	115.43	127.28
27	B	828	CHL	C1B-CHB-C4A	8.42	126.74	121.32
29	a	304	LUT	C19-C9-C10	-8.41	109.19	122.82
27	B	812	CHL	C1B-CHB-C4A	8.41	126.73	121.32
27	a	315	CHL	O2D-CGD-CBD	8.41	120.18	110.95
27	8	324	CHL	O2D-CGD-CBD	8.41	120.18	110.95
27	A	831	CHL	O2D-CGD-CBD	8.40	120.18	110.95
27	4	308	CHL	O2D-CGD-CBD	8.40	120.18	110.95
27	b	306	CHL	O2D-CGD-CBD	8.39	120.17	110.95
27	5	319	CHL	O2D-CGD-CBD	8.38	120.15	110.95
27	6	310	CHL	O2D-CGD-CBD	8.37	120.15	110.95
27	B	851	CHL	O2D-CGD-CBD	8.37	120.14	110.95
29	4	301	LUT	C11-C12-C13	8.36	149.28	126.36
27	8	316	CHL	O2D-CGD-CBD	8.34	120.11	110.95
29	3	304	LUT	C35-C34-C33	-8.34	115.58	127.28
29	a	304	LUT	C39-C29-C30	-8.33	109.32	122.82
27	A	819	CHL	O2D-CGD-CBD	8.33	120.10	110.95
29	a	304	LUT	C40-C33-C34	-8.32	109.34	122.82
27	3	318	CHL	O2D-CGD-CBD	8.31	120.08	110.95
27	7	318	CHL	O2D-CGD-CBD	8.30	120.06	110.95
27	3	314	CHL	C1B-CHB-C4A	8.29	126.66	121.32
27	B	829	CHL	O2D-CGD-CBD	8.29	120.06	110.95
29	a	302	LUT	C32-C33-C34	-8.28	105.98	119.01
27	5	314	CHL	O2D-CGD-CBD	8.28	120.05	110.95
27	6	315	CHL	C1B-CHB-C4A	8.27	126.64	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	5	303	LUT	C20-C13-C14	-8.27	109.41	122.82
29	7	304	LUT	C35-C34-C33	-8.25	115.71	127.28
29	8	303	LUT	C1-C6-C5	-8.24	111.38	122.64
29	4	302	LUT	C19-C9-C10	-8.23	109.48	122.82
29	3	304	LUT	C11-C12-C13	8.21	148.87	126.36
27	6	320	CHL	O2D-CGD-CBD	8.20	119.96	110.95
29	b	301	LUT	C35-C34-C33	-8.20	115.78	127.28
27	A	829	CHL	O2D-CGD-CBD	8.19	119.95	110.95
27	L	304	CHL	O2D-CGD-CBD	8.17	119.92	110.95
29	J	103	LUT	C20-C13-C14	-8.17	109.58	122.82
27	8	313	CHL	O2D-CGD-CBD	8.16	119.91	110.95
29	6	302	LUT	C39-C29-C30	-8.16	109.60	122.82
27	B	842	CHL	O2D-CGD-CBD	8.15	119.90	110.95
29	5	302	LUT	C40-C33-C34	-8.15	109.61	122.82
27	F	309	CHL	O2D-CGD-CBD	8.15	119.90	110.95
27	4	309	CHL	O2D-CGD-CBD	8.14	119.89	110.95
29	J	103	LUT	C19-C9-C10	-8.14	109.63	122.82
27	4	320	CHL	O2D-CGD-CBD	8.11	119.86	110.95
29	3	305	LUT	C32-C33-C34	-8.11	106.25	119.01
27	3	313	CHL	O2D-CGD-CBD	8.11	119.86	110.95
29	b	301	LUT	C19-C9-C10	-8.11	109.68	122.82
27	4	316	CHL	O2D-CGD-CBD	8.10	119.85	110.95
27	5	321	CHL	O2D-CGD-CBD	8.09	119.83	110.95
27	5	308	CHL	O2D-CGD-CBD	8.08	119.83	110.95
27	8	320	CHL	O2D-CGD-CBD	8.08	119.82	110.95
29	8	304	LUT	C35-C34-C33	-8.08	115.95	127.28
27	7	323	CHL	O2D-CGD-CBD	8.07	119.81	110.95
27	B	844	CHL	O2D-CGD-CBD	8.05	119.80	110.95
27	b	315	CHL	O2D-CGD-CBD	8.05	119.79	110.95
27	b	316	CHL	O2D-CGD-CBD	8.05	119.79	110.95
27	6	313	CHL	O2D-CGD-CBD	8.04	119.78	110.95
27	5	320	CHL	O2D-CGD-CBD	8.03	119.77	110.95
29	6	302	LUT	C1-C6-C5	-8.02	111.68	122.64
27	A	841	CHL	O1D-CGD-CBD	-8.02	112.57	124.72
29	a	302	LUT	C35-C34-C33	-8.01	116.04	127.28
27	A	823	CHL	O2D-CGD-CBD	8.01	119.74	110.95
27	B	827	CHL	O2D-CGD-CBD	7.98	119.71	110.95
29	6	302	LUT	C20-C13-C14	-7.97	109.90	122.82
29	J	103	LUT	C35-C34-C33	-7.97	116.09	127.28
27	8	317	CHL	O2D-CGD-CBD	7.97	119.71	110.95
27	6	319	CHL	O2D-CGD-CBD	7.97	119.71	110.95
27	B	826	CHL	O2D-CGD-CBD	7.96	119.69	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	J	103	LUT	C40-C33-C34	-7.96	109.93	122.82
27	5	325	CHL	O2D-CGD-CBD	7.94	119.68	110.95
29	b	301	LUT	C40-C33-C34	-7.93	109.97	122.82
29	3	305	LUT	C1-C6-C5	-7.93	111.81	122.64
27	A	833	CHL	C1B-CHB-C4A	7.91	126.41	121.32
29	a	302	LUT	C19-C9-C10	-7.90	110.02	122.82
27	A	845	CHL	O2D-CGD-CBD	7.88	119.61	110.95
27	5	316	CHL	C1B-CHB-C4A	7.88	126.39	121.32
27	K	206	CHL	O2D-CGD-CBD	7.87	119.59	110.95
29	F	303	LUT	C12-C13-C14	-7.86	106.64	119.01
27	4	312	CHL	C1B-CHB-C4A	7.85	126.38	121.32
29	5	303	LUT	C40-C33-C34	-7.85	110.10	122.82
27	7	314	CHL	O2D-CGD-CBD	7.85	119.57	110.95
27	B	846	CHL	O2D-CGD-CBD	7.83	119.55	110.95
27	B	841	CHL	O2D-CGD-CBD	7.81	119.53	110.95
27	A	848	CHL	O2D-CGD-CBD	7.81	119.53	110.95
27	B	813	CHL	O2D-CGD-CBD	7.78	119.49	110.95
27	A	841	CHL	O2D-CGD-CBD	7.78	119.49	110.95
27	K	204	CHL	O2D-CGD-CBD	7.77	119.48	110.95
27	8	315	CHL	O2D-CGD-CBD	7.77	119.48	110.95
27	b	305	CHL	C1B-CHB-C4A	7.76	126.32	121.32
29	8	303	LUT	C40-C33-C34	-7.75	110.26	122.82
27	4	316	CHL	C1B-CHB-C4A	7.75	126.31	121.32
27	b	307	CHL	O2D-CGD-CBD	7.74	119.46	110.95
27	8	323	CHL	C1B-CHB-C4A	7.74	126.30	121.32
29	F	303	LUT	C20-C13-C14	-7.74	110.27	122.82
27	K	205	CHL	O2D-CGD-CBD	7.73	119.44	110.95
27	B	816	CHL	O2D-CGD-CBD	7.73	119.44	110.95
29	4	302	LUT	C35-C34-C33	-7.73	116.44	127.28
29	F	303	LUT	C40-C33-C34	-7.73	110.30	122.82
27	b	317	CHL	O2D-CGD-CBD	7.72	119.43	110.95
27	8	325	CHL	O2D-CGD-CBD	7.72	119.42	110.95
27	B	832	CHL	O2D-CGD-CBD	7.71	119.42	110.95
29	b	301	LUT	C39-C29-C30	-7.71	110.33	122.82
27	B	837	CHL	O2D-CGD-CBD	7.70	119.41	110.95
27	A	841	CHL	O2D-CGD-O1D	-7.69	108.88	123.85
29	6	302	LUT	C32-C33-C34	-7.68	106.92	119.01
29	7	304	LUT	C40-C33-C34	-7.68	110.38	122.82
27	B	823	CHL	O2D-CGD-CBD	7.67	119.38	110.95
29	7	304	LUT	C8-C9-C10	-7.67	106.94	119.01
29	4	301	LUT	C40-C33-C34	-7.64	110.43	122.82
27	A	836	CHL	O2D-CGD-CBD	7.64	119.34	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	3	309	CHL	O2D-CGD-CBD	7.64	119.34	110.95
27	b	308	CHL	O2D-CGD-CBD	7.63	119.33	110.95
27	5	317	CHL	O2D-CGD-CBD	7.63	119.33	110.95
29	5	302	LUT	C20-C13-C14	-7.63	110.46	122.82
27	4	314	CHL	O2D-CGD-CBD	7.62	119.32	110.95
27	B	833	CHL	O2D-CGD-CBD	7.62	119.32	110.95
29	5	303	LUT	C19-C9-C10	-7.62	110.47	122.82
27	6	312	CHL	O2D-CGD-CBD	7.61	119.31	110.95
27	7	319	CHL	O2D-CGD-CBD	7.61	119.30	110.95
29	8	303	LUT	C35-C34-C33	-7.60	116.62	127.28
27	a	308	CHL	O2D-CGD-CBD	7.60	119.29	110.95
27	8	319	CHL	O2D-CGD-CBD	7.59	119.29	110.95
29	a	302	LUT	C40-C33-C34	-7.59	110.51	122.82
27	A	840	CHL	O2D-CGD-CBD	7.59	119.28	110.95
29	3	304	LUT	C32-C33-C34	-7.57	107.10	119.01
27	B	820	CHL	O2D-CGD-CBD	7.55	119.24	110.95
29	6	302	LUT	C19-C9-C10	-7.55	110.58	122.82
27	a	310	CHL	O2D-CGD-CBD	7.55	119.24	110.95
29	6	303	LUT	C19-C9-C10	-7.54	110.60	122.82
29	3	305	LUT	C11-C12-C13	7.52	146.99	126.36
27	A	828	CHL	O2D-CGD-CBD	7.52	119.21	110.95
27	5	321	CHL	C1B-CHB-C4A	7.49	126.14	121.32
29	4	301	LUT	C39-C29-C30	-7.49	110.69	122.82
27	6	309	CHL	O2D-CGD-CBD	7.48	119.17	110.95
29	8	303	LUT	C20-C13-C12	-7.48	106.66	118.09
29	6	302	LUT	C40-C33-C34	-7.47	110.71	122.82
27	3	320	CHL	O2D-CGD-CBD	7.47	119.16	110.95
27	A	835	CHL	O2D-CGD-CBD	7.47	119.15	110.95
27	a	312	CHL	O2D-CGD-CBD	7.45	119.13	110.95
29	6	302	LUT	C35-C34-C33	-7.44	116.84	127.28
27	A	820	CHL	O2D-CGD-CBD	7.44	119.12	110.95
29	8	304	LUT	C20-C13-C12	-7.43	106.74	118.09
27	7	311	CHL	O2D-CGD-CBD	7.41	119.09	110.95
29	7	304	LUT	C32-C33-C34	-7.40	107.38	119.01
29	6	303	LUT	C40-C33-C34	-7.40	110.83	122.82
29	5	303	LUT	C39-C29-C30	-7.39	110.85	122.82
27	A	822	CHL	O2D-CGD-CBD	7.38	119.06	110.95
27	A	824	CHL	O2D-CGD-CBD	7.38	119.06	110.95
27	5	318	CHL	O2D-CGD-CBD	7.37	119.05	110.95
29	a	302	LUT	C39-C29-C30	-7.36	110.89	122.82
29	4	301	LUT	C26-C27-C28	-7.35	113.15	124.58
27	A	832	CHL	O2D-CGD-CBD	7.34	119.02	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	4	302	LUT	C20-C13-C14	-7.34	110.93	122.82
27	B	824	CHL	O2D-CGD-CBD	7.34	119.01	110.95
29	8	304	LUT	C38-C25-C24	-7.34	105.99	123.36
29	7	304	LUT	C39-C29-C28	-7.33	106.89	118.09
29	3	305	LUT	C19-C9-C10	-7.33	110.95	122.82
29	b	301	LUT	C20-C13-C12	-7.32	106.91	118.09
27	3	317	CHL	O2D-CGD-CBD	7.31	118.98	110.95
29	F	303	LUT	C32-C33-C34	-7.31	107.51	119.01
27	6	305	CHL	O2D-CGD-CBD	7.31	118.98	110.95
27	B	819	CHL	O2D-CGD-CBD	7.31	118.98	110.95
29	8	304	LUT	C11-C12-C13	7.30	146.38	126.36
29	3	305	LUT	C39-C29-C30	-7.30	110.99	122.82
29	6	302	LUT	C26-C27-C28	-7.29	113.24	124.58
29	a	304	LUT	C20-C13-C14	-7.28	111.03	122.82
29	6	303	LUT	C39-C29-C30	-7.26	111.05	122.82
29	8	303	LUT	C39-C29-C28	-7.26	106.99	118.09
27	8	321	CHL	O2D-CGD-CBD	7.26	118.92	110.95
29	8	304	LUT	C26-C27-C28	-7.25	113.30	124.58
29	3	304	LUT	C19-C9-C10	-7.25	111.08	122.82
27	A	843	CHL	O2D-CGD-CBD	7.24	118.91	110.95
27	K	207	CHL	O2D-CGD-CBD	7.23	118.90	110.95
29	4	301	LUT	C19-C9-C10	-7.22	111.12	122.82
29	3	304	LUT	C40-C33-C34	-7.21	111.14	122.82
26	A	815	CL0	CBC-CAC-C3C	-7.20	102.56	112.87
27	4	317	CHL	O2D-CGD-CBD	7.20	118.86	110.95
27	B	847	CHL	O2D-CGD-CBD	7.20	118.85	110.95
27	B	840	CHL	O2D-CGD-CBD	7.19	118.85	110.95
29	3	305	LUT	C38-C25-C24	-7.18	106.37	123.36
27	A	849	CHL	C1B-CHB-C4A	7.18	125.94	121.32
27	A	833	CHL	O2D-CGD-O1D	-7.18	109.88	123.85
27	8	314	CHL	O2D-CGD-CBD	7.18	118.83	110.95
27	4	309	CHL	C1B-CHB-C4A	7.18	125.94	121.32
27	6	307	CHL	CHA-C1A-C2A	-7.14	116.54	133.31
29	7	304	LUT	C39-C29-C30	-7.14	111.25	122.82
29	3	304	LUT	C20-C13-C12	-7.13	107.19	118.09
29	3	304	LUT	C38-C25-C24	-7.12	106.51	123.36
29	4	301	LUT	C20-C13-C14	-7.11	111.30	122.82
29	b	301	LUT	C26-C27-C28	-7.11	113.52	124.58
29	a	302	LUT	C38-C25-C24	-7.11	106.54	123.36
29	3	304	LUT	C39-C29-C30	-7.10	111.31	122.82
29	8	304	LUT	C39-C29-C30	-7.10	111.32	122.82
29	8	304	LUT	C40-C33-C34	-7.09	111.33	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	b	314	CHL	C1B-CHB-C4A	7.09	125.88	121.32
29	5	302	LUT	C39-C29-C30	-7.08	111.35	122.82
29	3	305	LUT	C20-C13-C14	-7.07	111.36	122.82
29	8	304	LUT	C20-C13-C14	-7.07	111.36	122.82
27	7	321	CHL	O1D-CGD-CBD	-7.06	114.01	124.72
27	4	315	CHL	O2D-CGD-CBD	7.06	118.70	110.95
29	5	302	LUT	C19-C9-C10	-7.06	111.38	122.82
29	7	304	LUT	C20-C13-C14	-7.06	111.38	122.82
27	A	859	CHL	O2D-CGD-CBD	7.06	118.70	110.95
29	F	303	LUT	C39-C29-C30	-7.05	111.39	122.82
29	5	302	LUT	C38-C25-C24	-7.05	106.67	123.36
29	a	302	LUT	C20-C13-C14	-7.05	111.39	122.82
29	8	303	LUT	C38-C25-C24	-7.04	106.70	123.36
27	a	313	CHL	C1B-CHB-C4A	7.04	125.85	121.32
27	A	833	CHL	O1D-CGD-CBD	-7.03	114.06	124.72
29	8	303	LUT	C20-C13-C14	-7.03	111.42	122.82
29	8	303	LUT	C39-C29-C30	-7.02	111.45	122.82
27	B	822	CHL	O2D-CGD-CBD	7.02	118.66	110.95
29	5	302	LUT	C32-C33-C34	-7.00	108.00	119.01
29	4	302	LUT	C40-C33-C34	-6.97	111.53	122.82
29	6	303	LUT	C20-C13-C14	-6.96	111.54	122.82
29	8	303	LUT	C19-C9-C10	-6.96	111.54	122.82
29	8	304	LUT	C19-C9-C10	-6.95	111.56	122.82
27	A	842	CHL	O2D-CGD-CBD	6.93	118.56	110.95
29	6	303	LUT	C38-C25-C24	-6.92	106.99	123.36
29	b	301	LUT	C38-C25-C24	-6.90	107.02	123.36
29	5	303	LUT	C38-C25-C24	-6.89	107.06	123.36
29	3	304	LUT	C39-C29-C28	-6.88	107.58	118.09
29	J	103	LUT	C19-C9-C8	-6.88	107.58	118.09
29	3	305	LUT	C40-C33-C34	-6.86	111.70	122.82
29	F	303	LUT	C35-C15-C14	-6.83	109.54	123.52
29	4	302	LUT	C39-C29-C30	-6.82	111.76	122.82
29	7	304	LUT	C38-C25-C24	-6.82	107.22	123.36
29	6	302	LUT	C38-C25-C24	-6.80	107.27	123.36
27	4	317	CHL	CBC-CAC-C3C	-6.79	103.15	112.87
29	J	103	LUT	C39-C29-C28	-6.77	107.75	118.09
29	a	302	LUT	C39-C29-C28	-6.74	107.79	118.09
29	4	301	LUT	C32-C33-C34	-6.74	108.41	119.01
29	J	103	LUT	C32-C33-C34	-6.74	108.41	119.01
29	5	302	LUT	C20-C13-C12	-6.71	107.83	118.09
26	A	815	CL0	CHA-C1A-C2A	-6.71	117.56	133.31
29	b	301	LUT	C20-C13-C14	-6.69	111.98	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	3	305	LUT	C8-C9-C10	-6.68	108.50	119.01
27	A	827	CHL	O2D-CGD-CBD	6.68	118.28	110.95
27	3	315	CHL	O2D-CGD-CBD	6.64	118.25	110.95
27	A	843	CHL	CHA-C1A-C2A	-6.60	117.81	133.31
29	3	305	LUT	C35-C34-C33	-6.59	118.04	127.28
29	5	302	LUT	C39-C29-C28	-6.59	108.03	118.09
29	5	303	LUT	C12-C13-C14	-6.58	108.67	119.01
29	8	303	LUT	C8-C9-C10	-6.57	108.67	119.01
29	4	302	LUT	C38-C25-C24	-6.57	107.80	123.36
29	7	304	LUT	C20-C13-C12	-6.57	108.05	118.09
29	3	304	LUT	C8-C9-C10	-6.53	108.74	119.01
29	5	303	LUT	C39-C29-C28	-6.53	108.12	118.09
29	8	304	LUT	C40-C33-C32	-6.52	108.12	118.09
29	3	304	LUT	C20-C13-C14	-6.52	112.26	122.82
29	a	302	LUT	C20-C13-C12	-6.51	108.14	118.09
29	6	303	LUT	C20-C13-C12	-6.50	108.17	118.09
27	5	312	CHL	O2D-CGD-CBD	6.49	118.08	110.95
29	3	305	LUT	C20-C13-C12	-6.49	108.18	118.09
29	4	301	LUT	C20-C13-C12	-6.48	108.19	118.09
29	b	301	LUT	C8-C9-C10	-6.48	108.82	119.01
29	4	301	LUT	C38-C25-C24	-6.47	108.04	123.36
29	4	301	LUT	C8-C9-C10	-6.47	108.83	119.01
29	6	302	LUT	C8-C9-C10	-6.47	108.83	119.01
27	A	831	CHL	CHA-C1A-C2A	-6.47	118.12	133.31
29	6	302	LUT	C20-C13-C12	-6.43	108.27	118.09
27	4	310	CHL	C1B-CHB-C4A	6.41	125.44	121.32
29	a	304	LUT	C38-C25-C24	-6.41	108.19	123.36
29	7	304	LUT	C17-C1-C6	6.41	120.29	110.24
29	a	302	LUT	C8-C9-C10	-6.41	108.93	119.01
29	J	103	LUT	C38-C25-C24	-6.37	108.28	123.36
29	6	303	LUT	C32-C33-C34	-6.36	109.00	119.01
29	a	304	LUT	C28-C29-C30	-6.35	109.02	119.01
29	a	304	LUT	C32-C33-C34	-6.35	109.02	119.01
27	8	321	CHL	O1D-CGD-CBD	-6.35	115.09	124.72
27	L	303	CHL	CHA-C1A-C2A	-6.34	118.43	133.31
29	5	303	LUT	C40-C33-C32	-6.33	108.42	118.09
29	a	304	LUT	C8-C9-C10	-6.33	109.06	119.01
29	a	304	LUT	C7-C6-C5	-6.30	107.05	121.56
29	4	302	LUT	C40-C33-C32	-6.29	108.48	118.09
29	8	303	LUT	C40-C33-C32	-6.28	108.49	118.09
27	8	318	CHL	O2D-CGD-CBD	6.27	117.84	110.95
29	4	302	LUT	C39-C29-C28	-6.24	108.56	118.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	5	313	CHL	CHA-C1A-C2A	-6.22	118.71	133.31
29	8	304	LUT	C28-C29-C30	-6.21	109.24	119.01
29	b	301	LUT	C40-C33-C32	-6.19	108.64	118.09
29	8	303	LUT	C26-C27-C28	-6.17	114.97	124.58
29	7	304	LUT	C19-C9-C10	-6.17	112.82	122.82
29	5	302	LUT	C26-C27-C28	-6.17	114.98	124.58
29	3	305	LUT	C39-C29-C28	-6.16	108.68	118.09
29	F	303	LUT	C39-C29-C28	-6.13	108.72	118.09
27	B	834	CHL	O2D-CGD-CBD	6.13	117.68	110.95
29	a	302	LUT	C26-C27-C28	-6.13	115.05	124.58
29	4	301	LUT	C39-C29-C28	-6.12	108.74	118.09
27	7	311	CHL	O1D-CGD-CBD	-6.09	115.49	124.72
27	6	308	CHL	CHA-C1A-C2A	-6.08	119.03	133.31
29	6	303	LUT	C39-C29-C28	-6.07	108.81	118.09
27	7	321	CHL	O2D-CGD-O1D	-6.06	112.06	123.85
29	a	304	LUT	C35-C15-C14	-6.05	111.14	123.52
29	5	302	LUT	C8-C9-C10	-6.05	109.50	119.01
27	A	852	CHL	O1D-CGD-CBD	-6.05	115.55	124.72
27	B	850	CHL	O1D-CGD-CBD	-6.04	115.56	124.72
29	8	304	LUT	C19-C9-C8	-6.04	108.86	118.09
29	J	103	LUT	C40-C33-C32	-6.03	108.87	118.09
27	7	319	CHL	C1-C2-C3	-6.03	116.32	126.20
29	a	304	LUT	C26-C27-C28	-6.02	115.20	124.58
29	a	304	LUT	C12-C13-C14	-6.01	109.56	119.01
27	4	315	CHL	O1D-CGD-CBD	-6.00	115.62	124.72
29	6	303	LUT	C12-C13-C14	-6.00	109.58	119.01
29	8	303	LUT	C32-C33-C34	-5.98	109.60	119.01
29	b	301	LUT	C32-C33-C34	-5.96	109.63	119.01
29	4	302	LUT	C20-C13-C12	-5.94	109.02	118.09
27	b	304	CHL	C1B-CHB-C4A	5.94	125.14	121.32
27	3	308	CHL	O1D-CGD-CBD	-5.93	115.74	124.72
29	4	301	LUT	C28-C29-C30	-5.92	109.70	119.01
27	5	320	CHL	C1B-CHB-C4A	5.91	125.12	121.32
29	5	303	LUT	C35-C15-C14	-5.89	111.47	123.52
29	5	302	LUT	C40-C33-C32	-5.86	109.13	118.09
27	A	853	CHL	CHA-C1A-C2A	-5.85	119.56	133.31
29	a	304	LUT	C1-C6-C5	-5.84	114.65	122.64
29	b	301	LUT	C39-C29-C28	-5.83	109.19	118.09
27	5	317	CHL	O2D-CGD-O1D	-5.81	112.53	123.85
29	3	305	LUT	C26-C27-C28	-5.81	115.54	124.58
29	8	304	LUT	C1-C6-C5	-5.81	114.70	122.64
29	5	303	LUT	C26-C27-C28	-5.80	115.55	124.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	8	303	LUT	C28-C29-C30	-5.80	109.89	119.01
29	F	303	LUT	C38-C25-C24	-5.79	109.65	123.36
27	a	308	CHL	O1D-CGD-CBD	-5.79	115.94	124.72
29	a	304	LUT	C20-C13-C12	-5.78	109.26	118.09
27	A	855	CHL	O2D-CGD-CBD	5.78	117.29	110.95
29	J	103	LUT	C20-C13-C12	-5.77	109.27	118.09
27	5	316	CHL	CHA-C1A-C2A	-5.77	119.75	133.31
27	8	319	CHL	O1D-CGD-CBD	-5.77	115.97	124.72
29	8	304	LUT	C8-C9-C10	-5.77	109.94	119.01
29	a	304	LUT	C19-C9-C8	-5.75	109.30	118.09
27	A	846	CHL	CHA-C1A-C2A	-5.75	119.80	133.31
27	B	844	CHL	CHA-C1A-C2A	-5.75	119.80	133.31
29	5	303	LUT	C28-C29-C30	-5.75	109.96	119.01
29	6	302	LUT	C39-C29-C28	-5.75	109.30	118.09
29	6	303	LUT	C26-C27-C28	-5.75	115.63	124.58
29	7	304	LUT	C40-C33-C32	-5.75	109.31	118.09
27	A	818	CHL	CHA-C1A-C2A	-5.74	119.82	133.31
29	F	303	LUT	C28-C29-C30	-5.73	109.99	119.01
27	5	318	CHL	CHA-C1A-C2A	-5.73	119.86	133.31
29	a	302	LUT	C28-C29-C30	-5.73	110.00	119.01
27	L	303	CHL	C3D-C4D-ND	5.72	122.11	112.94
29	8	304	LUT	C7-C8-C9	-5.70	117.80	126.23
27	3	320	CHL	CHA-C1A-C2A	-5.69	119.94	133.31
29	6	303	LUT	C8-C9-C10	-5.68	110.07	119.01
29	8	304	LUT	C39-C29-C28	-5.67	109.42	118.09
27	b	316	CHL	C1B-CHB-C4A	5.65	124.96	121.32
27	6	316	CHL	CHA-C1A-C2A	-5.65	120.04	133.31
27	A	834	CHL	O2D-CGD-CBD	5.65	117.15	110.95
29	F	303	LUT	C40-C33-C32	-5.64	109.47	118.09
27	B	816	CHL	CHA-C1A-C2A	-5.64	120.06	133.31
27	B	827	CHL	CHA-C1A-C2A	-5.64	120.08	133.31
29	F	303	LUT	C1-C6-C5	-5.60	114.98	122.64
27	b	317	CHL	CHA-C1A-C2A	-5.60	120.16	133.31
27	a	314	CHL	CHA-C1A-C2A	-5.60	120.16	133.31
29	5	302	LUT	C28-C29-C30	-5.59	110.21	119.01
29	4	302	LUT	C26-C27-C28	-5.59	115.88	124.58
29	5	303	LUT	C20-C13-C12	-5.59	109.55	118.09
27	4	314	CHL	CHA-C1A-C2A	-5.58	120.20	133.31
29	a	302	LUT	C40-C33-C32	-5.56	109.59	118.09
27	B	822	CHL	O1D-CGD-CBD	-5.56	116.29	124.72
27	B	831	CHL	CHA-C1A-C2A	-5.55	120.28	133.31
27	a	315	CHL	CHA-C1A-C2A	-5.54	120.29	133.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	3	315	CHL	O1D-CGD-CBD	-5.54	116.31	124.72
27	K	205	CHL	CHA-C1A-C2A	-5.54	120.31	133.31
27	B	825	CHL	CHA-C1A-C2A	-5.53	120.33	133.31
27	B	841	CHL	O1D-CGD-CBD	-5.52	116.35	124.72
27	B	846	CHL	CHA-C1A-C2A	-5.52	120.35	133.31
27	B	824	CHL	O1D-CGD-CBD	-5.51	116.36	124.72
27	A	847	CHL	CHA-C1A-C2A	-5.51	120.37	133.31
27	5	318	CHL	O1D-CGD-CBD	-5.50	116.38	124.72
27	6	319	CHL	C1B-CHB-C4A	5.49	124.86	121.32
27	4	308	CHL	CHA-C1A-C2A	-5.49	120.41	133.31
27	B	842	CHL	CHA-C1A-C2A	-5.49	120.42	133.31
27	4	311	CHL	CHA-C1A-C2A	-5.48	120.44	133.31
27	B	820	CHL	CHA-C1A-C2A	-5.47	120.45	133.31
27	8	318	CHL	O1D-CGD-CBD	-5.47	116.42	124.72
27	6	309	CHL	CHA-C1A-C2A	-5.47	120.47	133.31
27	A	820	CHL	CHA-C1A-C2A	-5.46	120.48	133.31
27	5	319	CHL	CHA-C1A-C2A	-5.46	120.50	133.31
27	8	320	CHL	CHA-C1A-C2A	-5.45	120.52	133.31
29	4	301	LUT	C19-C9-C8	-5.44	109.77	118.09
27	3	320	CHL	O1D-CGD-CBD	-5.44	116.47	124.72
27	3	315	CHL	CHA-C1A-C2A	-5.44	120.54	133.31
29	4	302	LUT	C32-C33-C34	-5.43	110.47	119.01
27	8	322	CHL	CHA-C1A-C2A	-5.42	120.58	133.31
27	B	847	CHL	CHA-C1A-C2A	-5.42	120.58	133.31
27	K	204	CHL	CHA-C1A-C2A	-5.42	120.58	133.31
29	6	303	LUT	C28-C29-C30	-5.42	110.49	119.01
27	3	310	CHL	CHA-C1A-C2A	-5.42	120.59	133.31
29	3	304	LUT	C26-C27-C28	-5.42	116.15	124.58
27	4	305	CHL	CHA-C1A-C2A	-5.41	120.59	133.31
27	A	838	CHL	CHA-C1A-C2A	-5.41	120.61	133.31
27	A	850	CHL	CHA-C1A-C2A	-5.41	120.61	133.31
27	L	303	CHL	C1B-CHB-C4A	-5.41	117.85	121.32
27	B	817	CHL	CHA-C1A-C2A	-5.39	120.65	133.31
27	A	828	CHL	O1D-CGD-CBD	-5.39	116.55	124.72
29	8	304	LUT	C32-C33-C34	-5.39	110.53	119.01
29	7	304	LUT	C26-C27-C28	-5.39	116.19	124.58
27	7	314	CHL	O1D-CGD-CBD	-5.38	116.56	124.72
27	A	823	CHL	CHA-C1A-C2A	-5.38	120.68	133.31
27	A	827	CHL	CHA-C1A-C2A	-5.38	120.68	133.31
27	A	836	CHL	O1D-CGD-CBD	-5.37	116.57	124.72
27	A	822	CHL	CHA-C1A-C2A	-5.37	120.69	133.31
27	B	841	CHL	CHA-C1A-C2A	-5.37	120.70	133.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	K	206	CHL	O1D-CGD-CBD	-5.36	116.59	124.72
29	F	303	LUT	C8-C9-C10	-5.36	110.58	119.01
27	B	837	CHL	CHA-C1A-C2A	-5.36	120.72	133.31
27	7	311	CHL	CHA-C1A-C2A	-5.36	120.72	133.31
27	B	828	CHL	CHA-C1A-C2A	-5.36	120.72	133.31
27	B	845	CHL	CHA-C1A-C2A	-5.36	120.72	133.31
27	b	308	CHL	CAC-C3C-C2C	5.36	137.41	127.56
27	B	836	CHL	CHA-C1A-C2A	-5.36	120.73	133.31
29	6	303	LUT	C40-C33-C32	-5.35	109.91	118.09
27	A	836	CHL	CHA-C1A-C2A	-5.35	120.75	133.31
27	5	317	CHL	CHA-C1A-C2A	-5.35	120.76	133.31
27	A	843	CHL	C1-C2-C3	-5.34	117.44	126.20
27	3	311	CHL	CHA-C1A-C2A	-5.34	120.77	133.31
27	a	319	CHL	CHA-C1A-C2A	-5.34	120.77	133.31
29	b	301	LUT	C28-C29-C30	-5.34	110.61	119.01
27	b	315	CHL	CHA-C1A-C2A	-5.34	120.78	133.31
27	a	310	CHL	O1D-CGD-CBD	-5.34	116.63	124.72
27	5	309	CHL	CHA-C1A-C2A	-5.33	120.79	133.31
27	6	312	CHL	O1D-CGD-CBD	-5.32	116.65	124.72
27	3	321	CHL	CHA-C1A-C2A	-5.32	120.81	133.31
27	B	815	CHL	CHA-C1A-C2A	-5.32	120.82	133.31
27	B	821	CHL	CHA-C1A-C2A	-5.32	120.82	133.31
27	A	849	CHL	CHA-C1A-C2A	-5.32	120.82	133.31
27	8	324	CHL	CHA-C1A-C2A	-5.31	120.83	133.31
27	8	317	CHL	CHA-C1A-C2A	-5.31	120.83	133.31
27	3	319	CHL	CHA-C1A-C2A	-5.31	120.84	133.31
27	8	321	CHL	CHA-C1A-C2A	-5.31	120.84	133.31
29	6	302	LUT	C19-C9-C8	-5.30	109.98	118.09
27	b	312	CHL	CHA-C1A-C2A	-5.30	120.85	133.31
27	a	316	CHL	C1B-CHB-C4A	5.30	124.73	121.32
27	3	318	CHL	CHA-C1A-C2A	-5.30	120.87	133.31
29	4	302	LUT	C28-C29-C30	-5.30	110.68	119.01
27	5	315	CHL	CHA-C1A-C2A	-5.30	120.87	133.31
27	J	106	CHL	CHA-C1A-C2A	-5.29	120.88	133.31
29	4	302	LUT	C4-C5-C6	-5.29	109.90	120.76
29	5	303	LUT	C32-C33-C34	-5.29	110.69	119.01
27	b	307	CHL	CHA-C1A-C2A	-5.28	120.90	133.31
27	3	313	CHL	CHA-C1A-C2A	-5.28	120.90	133.31
27	A	848	CHL	CHA-C1A-C2A	-5.28	120.91	133.31
27	B	834	CHL	O2D-CGD-O1D	-5.28	113.57	123.85
29	3	305	LUT	C28-C29-C30	-5.28	110.71	119.01
27	a	312	CHL	O1D-CGD-CBD	-5.27	116.72	124.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	8	315	CHL	O1D-CGD-CBD	-5.27	116.72	124.72
27	4	318	CHL	C1B-CHB-C4A	5.26	124.71	121.32
27	L	304	CHL	O1D-CGD-CBD	-5.26	116.75	124.72
29	J	103	LUT	C35-C15-C14	-5.25	112.78	123.52
29	7	304	LUT	C28-C29-C30	-5.25	110.76	119.01
27	B	839	CHL	CHA-C1A-C2A	-5.24	121.00	133.31
27	5	312	CHL	O1D-CGD-CBD	-5.24	116.78	124.72
29	4	301	LUT	C40-C33-C32	-5.23	110.10	118.09
27	5	325	CHL	CHA-C1A-C2A	-5.22	121.06	133.31
27	7	312	CHL	CHA-C1A-C2A	-5.22	121.06	133.31
27	8	324	CHL	O1D-CGD-CBD	-5.22	116.81	124.72
27	b	310	CHL	CHA-C1A-C2A	-5.22	121.06	133.31
27	K	204	CHL	O1D-CGD-CBD	-5.21	116.82	124.72
27	a	320	CHL	CHA-C1A-C2A	-5.21	121.07	133.31
27	8	326	CHL	CHA-C1A-C2A	-5.21	121.07	133.31
27	5	323	CHL	O1D-CGD-CBD	-5.21	116.82	124.72
27	A	841	CHL	CHA-C1A-C2A	-5.21	121.08	133.31
29	5	303	LUT	C19-C9-C8	-5.21	110.13	118.09
27	B	813	CHL	O1D-CGD-CBD	-5.20	116.83	124.72
27	F	308	CHL	CHA-C1A-C2A	-5.20	121.10	133.31
27	K	207	CHL	CHA-C1A-C2A	-5.20	121.10	133.31
27	A	835	CHL	O1D-CGD-CBD	-5.20	116.84	124.72
27	A	834	CHL	CHA-C1A-C2A	-5.19	121.12	133.31
27	6	318	CHL	CHA-C1A-C2A	-5.19	121.13	133.31
27	4	315	CHL	CHA-C1A-C2A	-5.19	121.13	133.31
27	B	848	CHL	CHA-C1A-C2A	-5.18	121.16	133.31
27	a	307	CHL	O1D-CGD-CBD	-5.17	116.88	124.72
27	B	817	CHL	O1D-CGD-CBD	-5.17	116.88	124.72
29	3	305	LUT	C4-C5-C6	-5.17	110.14	120.76
27	8	311	CHL	CHA-C1A-C2A	-5.16	121.19	133.31
29	a	304	LUT	C40-C33-C32	-5.16	110.21	118.09
27	A	825	CHL	CHA-C1A-C2A	-5.16	121.20	133.31
29	5	303	LUT	C7-C6-C5	-5.16	109.68	121.56
27	3	309	CHL	O1D-CGD-CBD	-5.16	116.90	124.72
27	A	851	CHL	CHA-C1A-C2A	-5.15	121.21	133.31
27	B	830	CHL	CHA-C1A-C2A	-5.15	121.21	133.31
29	b	301	LUT	C7-C6-C5	-5.15	109.70	121.56
27	A	840	CHL	O1D-CGD-CBD	-5.15	116.92	124.72
27	a	318	CHL	CHA-C1A-C2A	-5.14	121.23	133.31
27	B	840	CHL	CHA-C1A-C2A	-5.14	121.24	133.31
27	7	321	CHL	CHA-C1A-C2A	-5.14	121.24	133.31
27	b	308	CHL	CMA-C3A-C4A	-5.13	103.55	114.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	828	CHL	O1D-CGD-CBD	-5.13	116.94	124.72
27	7	318	CHL	CHA-C1A-C2A	-5.13	121.27	133.31
27	7	319	CHL	CHA-C1A-C2A	-5.12	121.27	133.31
27	8	316	CHL	CHA-C1A-C2A	-5.12	121.28	133.31
27	3	317	CHL	CHA-C1A-C2A	-5.12	121.28	133.31
27	6	319	CHL	CHA-C1A-C2A	-5.11	121.30	133.31
27	7	316	CHL	CHA-C1A-C2A	-5.11	121.31	133.31
27	A	842	CHL	CHA-C1A-C2A	-5.11	121.31	133.31
27	8	319	CHL	CHA-C1A-C2A	-5.10	121.33	133.31
27	8	318	CHL	CHA-C1A-C2A	-5.09	121.35	133.31
27	A	856	CHL	CHA-C1A-C2A	-5.08	121.37	133.31
27	A	820	CHL	O1D-CGD-CBD	-5.08	117.02	124.72
27	B	834	CHL	O1D-CGD-CBD	-5.08	117.02	124.72
27	5	307	CHL	O1D-CGD-CBD	-5.07	117.03	124.72
27	B	812	CHL	CHA-C1A-C2A	-5.07	121.39	133.31
27	4	307	CHL	CHA-C1A-C2A	-5.07	121.39	133.31
27	B	819	CHL	O1D-CGD-CBD	-5.07	117.03	124.72
29	8	303	LUT	C19-C9-C8	-5.07	110.35	118.09
27	B	849	CHL	CHA-C1A-C2A	-5.06	121.42	133.31
29	a	302	LUT	C19-C9-C8	-5.06	110.35	118.09
29	F	303	LUT	C26-C27-C28	-5.05	116.72	124.58
27	B	833	CHL	CHA-C1A-C2A	-5.05	121.45	133.31
29	6	302	LUT	C28-C29-C30	-5.05	111.07	119.01
27	B	847	CHL	O1D-CGD-CBD	-5.05	117.07	124.72
27	4	306	CHL	CHA-C1A-C2A	-5.05	121.46	133.31
27	A	820	CHL	O2D-CGD-O1D	-5.04	114.03	123.85
29	F	303	LUT	C19-C9-C8	-5.04	110.39	118.09
27	3	308	CHL	CHA-C1A-C2A	-5.04	121.48	133.31
27	B	823	CHL	CHA-C1A-C2A	-5.03	121.49	133.31
27	6	307	CHL	C3D-C4D-ND	5.03	121.01	112.94
27	A	839	CHL	CHA-C1A-C2A	-5.03	121.50	133.31
27	a	312	CHL	CHA-C1A-C2A	-5.03	121.50	133.31
27	B	819	CHL	CHA-C1A-C2A	-5.03	121.50	133.31
27	b	306	CHL	CHA-C1A-C2A	-5.03	121.50	133.31
27	7	315	CHL	CHA-C1A-C2A	-5.02	121.51	133.31
27	A	855	CHL	CHA-C1A-C2A	-5.02	121.52	133.31
27	7	322	CHL	CHA-C1A-C2A	-5.02	121.53	133.31
27	6	320	CHL	CHA-C1A-C2A	-5.01	121.54	133.31
27	A	854	CHL	CHA-C1A-C2A	-5.00	121.56	133.31
27	7	314	CHL	CHA-C1A-C2A	-5.00	121.56	133.31
27	L	304	CHL	CHA-C1A-C2A	-5.00	121.56	133.31
27	B	833	CHL	O1D-CGD-CBD	-5.00	117.14	124.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	5	311	CHL	O1D-CGD-CBD	-5.00	117.14	124.72
27	6	317	CHL	CHA-C1A-C2A	-5.00	121.57	133.31
29	8	303	LUT	C4-C5-C6	-5.00	110.49	120.76
27	5	322	CHL	CHA-C1A-C2A	-5.00	121.57	133.31
27	B	832	CHL	O1D-CGD-CBD	-5.00	117.15	124.72
27	A	837	CHL	CHA-C1A-C2A	-4.99	121.58	133.31
27	A	846	CHL	C1-C2-C3	-4.99	118.68	126.76
27	6	311	CHL	CHA-C1A-C2A	-4.99	121.58	133.31
27	A	852	CHL	O2D-CGD-O1D	-4.99	114.13	123.85
27	7	317	CHL	CHA-C1A-C2A	-4.99	121.58	133.31
27	4	312	CHL	CHA-C1A-C2A	-4.99	121.59	133.31
27	a	313	CHL	CHA-C1A-C2A	-4.99	121.60	133.31
27	A	831	CHL	C3D-C4D-ND	4.98	120.94	112.94
27	5	314	CHL	CHA-C1A-C2A	-4.98	121.61	133.31
27	A	834	CHL	O1D-CGD-CBD	-4.98	117.17	124.72
29	4	302	LUT	C19-C9-C8	-4.98	110.48	118.09
27	B	814	CHL	O1D-CGD-CBD	-4.98	117.18	124.72
27	A	845	CHL	CHA-C1A-C2A	-4.97	121.63	133.31
29	a	304	LUT	C7-C8-C9	-4.97	118.88	126.23
27	B	851	CHL	CHA-C1A-C2A	-4.97	121.65	133.31
29	5	303	LUT	C21-C26-C27	-4.97	107.12	112.83
27	6	306	CHL	CHA-C1A-C2A	-4.96	121.66	133.31
29	4	302	LUT	C8-C9-C10	-4.96	111.21	119.01
27	A	830	CHL	CHA-C1A-C2A	-4.96	121.67	133.31
27	6	311	CHL	O1D-CGD-CBD	-4.96	117.21	124.72
27	4	320	CHL	CHA-C1A-C2A	-4.96	121.67	133.31
27	5	307	CHL	CHA-C1A-C2A	-4.96	121.67	133.31
27	B	829	CHL	CHA-C1A-C2A	-4.95	121.69	133.31
27	8	313	CHL	CHA-C1A-C2A	-4.95	121.69	133.31
27	A	857	CHL	CHA-C1A-C2A	-4.94	121.70	133.31
29	F	303	LUT	C7-C8-C9	-4.94	118.93	126.23
27	a	307	CHL	CHA-C1A-C2A	-4.94	121.72	133.31
27	3	312	CHL	CHA-C1A-C2A	-4.93	121.72	133.31
27	8	312	CHL	CHA-C1A-C2A	-4.93	121.73	133.31
27	5	313	CHL	C3D-C4D-ND	4.93	120.84	112.94
27	6	314	CHL	CHA-C1A-C2A	-4.93	121.74	133.31
27	A	824	CHL	CHA-C1A-C2A	-4.93	121.74	133.31
27	A	832	CHL	O1D-CGD-CBD	-4.92	117.25	124.72
27	8	315	CHL	CHA-C1A-C2A	-4.92	121.75	133.31
27	8	323	CHL	C1-C2-C3	-4.92	118.80	126.76
27	6	310	CHL	CHA-C1A-C2A	-4.92	121.76	133.31
27	4	304	CHL	CHA-C1A-C2A	-4.91	121.77	133.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	b	313	CHL	CHA-C1A-C2A	-4.91	121.77	133.31
29	F	303	LUT	C20-C13-C12	-4.91	110.58	118.09
27	A	833	CHL	CHA-C1A-C2A	-4.91	121.77	133.31
27	7	324	CHL	CHA-C1A-C2A	-4.91	121.78	133.31
27	b	316	CHL	CHA-C1A-C2A	-4.91	121.78	133.31
27	B	813	CHL	CHA-C1A-C2A	-4.91	121.78	133.31
27	A	852	CHL	CHA-C1A-C2A	-4.91	121.79	133.31
27	B	814	CHL	CHA-C1A-C2A	-4.91	121.79	133.31
27	a	309	CHL	CHA-C1A-C2A	-4.91	121.79	133.31
27	B	843	CHL	CHA-C1A-C2A	-4.90	121.81	133.31
27	5	320	CHL	CHA-C1A-C2A	-4.90	121.81	133.31
27	A	846	CHL	CBC-CAC-C3C	-4.89	105.87	112.87
27	a	311	CHL	CHA-C1A-C2A	-4.89	121.82	133.31
27	3	315	CHL	O2D-CGD-O1D	-4.89	114.34	123.85
29	5	303	LUT	C8-C9-C10	-4.88	111.33	119.01
29	6	302	LUT	C4-C5-C6	-4.88	110.73	120.76
29	b	301	LUT	C12-C13-C14	-4.88	111.33	119.01
29	3	304	LUT	C28-C29-C30	-4.88	111.34	119.01
27	a	316	CHL	CHA-C1A-C2A	-4.88	121.86	133.31
27	7	313	CHL	CHA-C1A-C2A	-4.88	121.86	133.31
27	4	316	CHL	CHA-C1A-C2A	-4.87	121.88	133.31
27	A	844	CHL	CHA-C1A-C2A	-4.86	121.89	133.31
29	b	301	LUT	C19-C9-C8	-4.86	110.67	118.09
27	B	834	CHL	CHA-C1A-C2A	-4.86	121.90	133.31
27	a	310	CHL	CHA-C1A-C2A	-4.86	121.90	133.31
27	8	320	CHL	O1D-CGD-CBD	-4.85	117.36	124.72
27	A	832	CHL	CHA-C1A-C2A	-4.85	121.93	133.31
27	A	859	CHL	CHA-C1A-C2A	-4.85	121.93	133.31
27	8	314	CHL	CHA-C1A-C2A	-4.84	121.93	133.31
27	a	317	CHL	CHA-C1A-C2A	-4.84	121.93	133.31
27	B	811	CHL	CHA-C1A-C2A	-4.84	121.95	133.31
29	3	305	LUT	C19-C9-C8	-4.83	110.70	118.09
27	8	312	CHL	O1D-CGD-CBD	-4.83	117.40	124.72
27	6	313	CHL	CHA-C1A-C2A	-4.83	121.98	133.31
27	F	309	CHL	CHA-C1A-C2A	-4.81	122.00	133.31
27	A	819	CHL	CHA-C1A-C2A	-4.81	122.01	133.31
27	B	838	CHL	CHA-C1A-C2A	-4.81	122.02	133.31
27	5	310	CHL	CHA-C1A-C2A	-4.81	122.02	133.31
27	A	846	CHL	C3D-C4D-ND	4.81	120.65	112.94
27	5	312	CHL	O2D-CGD-O1D	-4.81	114.49	123.85
27	5	311	CHL	CHA-C1A-C2A	-4.81	122.02	133.31
29	F	303	LUT	C18-C5-C4	-4.80	105.59	114.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	8	318	CHL	O2D-CGD-O1D	-4.80	114.50	123.85
27	8	320	CHL	O2D-CGD-O1D	-4.80	114.51	123.85
27	B	829	CHL	O1D-CGD-CBD	-4.80	117.45	124.72
27	B	822	CHL	O2D-CGD-O1D	-4.79	114.52	123.85
27	4	320	CHL	O1D-CGD-CBD	-4.79	117.46	124.72
27	6	315	CHL	CHA-C1A-C2A	-4.79	122.06	133.31
27	5	311	CHL	CBC-CAC-C3C	-4.79	106.02	112.87
27	7	318	CHL	O1D-CGD-CBD	-4.79	117.47	124.72
27	3	314	CHL	CHA-C1A-C2A	-4.79	122.07	133.31
27	b	311	CHL	CHA-C1A-C2A	-4.78	122.08	133.31
27	B	850	CHL	O2D-CGD-O1D	-4.78	114.54	123.85
27	6	305	CHL	CHA-C1A-C2A	-4.77	122.10	133.31
27	4	310	CHL	CHA-C1A-C2A	-4.77	122.10	133.31
27	B	822	CHL	CHA-C1A-C2A	-4.77	122.10	133.31
27	B	826	CHL	O1D-CGD-CBD	-4.77	117.49	124.72
27	3	320	CHL	O2D-CGD-O1D	-4.76	114.57	123.85
27	7	319	CHL	C4D-CHA-CBD	-4.76	104.17	108.97
27	8	325	CHL	CHA-C1A-C2A	-4.76	122.13	133.31
27	A	828	CHL	CHA-C1A-C2A	-4.76	122.14	133.31
29	a	304	LUT	C39-C29-C28	-4.76	110.82	118.09
27	B	824	CHL	CHA-C1A-C2A	-4.76	122.14	133.31
27	5	308	CHL	CHA-C1A-C2A	-4.76	122.14	133.31
27	b	314	CHL	CHA-C1A-C2A	-4.75	122.15	133.31
27	B	850	CHL	CHA-C1A-C2A	-4.75	122.15	133.31
29	6	302	LUT	C7-C6-C5	-4.75	110.62	121.56
27	6	306	CHL	O1D-CGD-CBD	-4.75	117.53	124.72
29	a	302	LUT	C12-C13-C14	-4.74	111.56	119.01
29	8	304	LUT	C18-C5-C4	-4.74	105.71	114.42
27	B	816	CHL	O1D-CGD-CBD	-4.74	117.54	124.72
27	A	829	CHL	O1D-CGD-CBD	-4.74	117.54	124.72
27	4	318	CHL	CHA-C1A-C2A	-4.74	122.19	133.31
27	7	323	CHL	CHA-C1A-C2A	-4.73	122.19	133.31
27	A	835	CHL	O2D-CGD-O1D	-4.73	114.64	123.85
27	5	312	CHL	CHA-C1A-C2A	-4.72	122.22	133.31
29	J	103	LUT	C12-C13-C14	-4.72	111.58	119.01
27	5	310	CHL	O1D-CGD-CBD	-4.72	117.57	124.72
27	K	206	CHL	CHA-C1A-C2A	-4.72	122.23	133.31
27	B	819	CHL	O2D-CGD-O1D	-4.71	114.68	123.85
27	A	826	CHL	CHA-C1A-C2A	-4.71	122.26	133.31
27	6	313	CHL	O1D-CGD-CBD	-4.71	117.59	124.72
27	8	321	CHL	O2D-CGD-O1D	-4.71	114.69	123.85
29	8	303	LUT	C21-C26-C27	-4.70	107.42	112.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	817	CHL	CHA-C1A-C2A	-4.70	122.27	133.31
27	A	821	CHL	CHA-C1A-C2A	-4.70	122.27	133.31
27	A	851	CHL	O1D-CGD-CBD	-4.70	117.60	124.72
27	B	817	CHL	O2D-CGD-O1D	-4.70	114.70	123.85
27	A	839	CHL	O1D-CGD-CBD	-4.70	117.60	124.72
27	B	823	CHL	O1D-CGD-CBD	-4.69	117.62	124.72
27	5	308	CHL	O1D-CGD-CBD	-4.68	117.63	124.72
27	B	841	CHL	O2D-CGD-O1D	-4.67	114.76	123.85
27	6	312	CHL	CHA-C1A-C2A	-4.67	122.34	133.31
27	B	818	CHL	CHA-C1A-C2A	-4.67	122.35	133.31
27	A	829	CHL	CHA-C1A-C2A	-4.67	122.35	133.31
29	3	305	LUT	C40-C33-C32	-4.66	110.96	118.09
27	A	852	CHL	C4-C3-C5	4.65	121.61	116.13
27	B	826	CHL	CHA-C1A-C2A	-4.65	122.38	133.31
27	b	305	CHL	CHA-C1A-C2A	-4.65	122.38	133.31
27	3	316	CHL	CHA-C1A-C2A	-4.65	122.38	133.31
27	8	323	CHL	CHA-C1A-C2A	-4.65	122.40	133.31
27	A	841	CHL	C4D-CHA-CBD	-4.65	104.28	108.97
27	3	311	CHL	O1D-CGD-CBD	-4.64	117.68	124.72
27	3	309	CHL	CHA-C1A-C2A	-4.64	122.42	133.31
29	8	303	LUT	C7-C6-C5	-4.63	110.90	121.56
27	b	304	CHL	CHA-C1A-C2A	-4.62	122.45	133.31
27	B	833	CHL	O2D-CGD-O1D	-4.62	114.85	123.85
27	a	312	CHL	O2D-CGD-O1D	-4.62	114.86	123.85
27	A	832	CHL	O2D-CGD-O1D	-4.62	114.86	123.85
27	A	858	CHL	CHA-C1A-C2A	-4.61	122.48	133.31
27	3	316	CHL	O2D-CGD-O1D	-4.61	114.88	123.85
27	A	845	CHL	O2D-CGD-O1D	-4.60	114.89	123.85
29	5	302	LUT	C19-C9-C8	-4.60	111.06	118.09
27	A	834	CHL	O2D-CGD-O1D	-4.60	114.90	123.85
27	A	819	CHL	O1D-CGD-CBD	-4.59	117.76	124.72
27	B	816	CHL	O2D-CGD-O1D	-4.59	114.91	123.85
27	5	321	CHL	CHA-C1A-C2A	-4.58	122.54	133.31
29	3	305	LUT	C7-C6-C5	-4.58	111.01	121.56
27	B	824	CHL	O2D-CGD-O1D	-4.57	114.94	123.85
27	a	308	CHL	O2D-CGD-O1D	-4.56	114.97	123.85
29	7	304	LUT	C19-C9-C8	-4.56	111.12	118.09
29	6	303	LUT	C19-C9-C8	-4.55	111.13	118.09
27	8	319	CHL	O2D-CGD-O1D	-4.55	114.99	123.85
27	A	822	CHL	O2D-CGD-O1D	-4.54	115.01	123.85
27	a	308	CHL	CHA-C1A-C2A	-4.54	122.64	133.31
27	A	837	CHL	O1D-CGD-CBD	-4.54	117.84	124.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	813	CHL	O2D-CGD-O1D	-4.54	115.02	123.85
27	B	826	CHL	O2D-CGD-O1D	-4.54	115.02	123.85
26	A	815	CL0	C1B-CHB-C4A	4.53	124.24	121.32
29	3	304	LUT	C19-C9-C8	-4.53	111.17	118.09
27	A	818	CHL	O2D-CGD-O1D	-4.53	115.04	123.85
27	4	319	CHL	CHA-C1A-C2A	-4.52	122.68	133.31
27	4	309	CHL	CHA-C1A-C2A	-4.52	122.69	133.31
29	3	304	LUT	C40-C33-C32	-4.52	111.18	118.09
27	A	816	CHL	CHA-C1A-C2A	-4.51	122.71	133.31
27	b	309	CHL	CHA-C1A-C2A	-4.50	122.73	133.31
27	K	206	CHL	O2D-CGD-O1D	-4.50	115.09	123.85
29	J	103	LUT	C8-C9-C10	-4.49	111.94	119.01
27	7	314	CHL	O2D-CGD-O1D	-4.49	115.11	123.85
29	J	103	LUT	C26-C27-C28	-4.49	117.59	124.58
27	6	313	CHL	O2D-CGD-O1D	-4.49	115.11	123.85
27	A	859	CHL	O1D-CGD-CBD	-4.49	117.92	124.72
27	b	306	CHL	O1D-CGD-CBD	-4.49	117.92	124.72
27	3	321	CHL	O1D-CGD-CBD	-4.49	117.92	124.72
24	B	808	LHG	O4-P-O5	4.48	133.27	112.44
27	A	842	CHL	C4D-CHA-CBD	-4.47	104.46	108.97
27	A	828	CHL	O2D-CGD-O1D	-4.47	115.15	123.85
27	4	315	CHL	O2D-CGD-O1D	-4.47	115.15	123.85
27	A	822	CHL	O1D-CGD-CBD	-4.46	117.95	124.72
29	5	302	LUT	C12-C13-C14	-4.46	112.00	119.01
27	A	849	CHL	O1D-CGD-CBD	-4.46	117.97	124.72
27	A	851	CHL	O2D-CGD-O1D	-4.45	115.18	123.85
27	B	838	CHL	O1D-CGD-CBD	-4.45	117.97	124.72
27	B	851	CHL	O1D-CGD-CBD	-4.45	117.97	124.72
27	B	837	CHL	O2D-CGD-O1D	-4.45	115.18	123.85
29	6	302	LUT	C40-C33-C32	-4.45	111.30	118.09
24	A	810	LHG	O4-P-O5	4.45	133.13	112.44
27	5	323	CHL	O2D-CGD-O1D	-4.44	115.20	123.85
24	7	306	LHG	O4-P-O5	4.44	133.10	112.44
27	B	820	CHL	O1D-CGD-CBD	-4.44	117.99	124.72
24	7	302	LHG	O4-P-O5	4.44	133.09	112.44
27	A	841	CHL	C3D-CAD-CBD	-4.43	101.77	107.61
29	3	304	LUT	C12-C13-C14	-4.42	112.06	119.01
24	8	305	LHG	O4-P-O5	4.42	132.99	112.44
24	A	812	LHG	O4-P-O5	4.41	132.98	112.44
24	5	324	LHG	O4-P-O5	4.41	132.98	112.44
27	8	314	CHL	C4D-CHA-CBD	-4.41	104.52	108.97
27	6	310	CHL	O1D-CGD-CBD	-4.41	118.03	124.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	b	302	LHG	O4-P-O5	4.41	132.95	112.44
27	F	309	CHL	O1D-CGD-CBD	-4.41	118.04	124.72
27	3	317	CHL	O1D-CGD-CBD	-4.39	118.06	124.72
27	B	840	CHL	O1D-CGD-CBD	-4.39	118.06	124.72
27	8	325	CHL	O1D-CGD-CBD	-4.39	118.06	124.72
27	B	846	CHL	O1D-CGD-CBD	-4.39	118.07	124.72
27	5	323	CHL	CHA-C1A-C2A	-4.38	123.02	133.31
27	A	839	CHL	O2D-CGD-O1D	-4.38	115.33	123.85
29	5	302	LUT	C21-C26-C27	-4.38	107.79	112.83
27	A	818	CHL	O1D-CGD-CBD	-4.38	118.09	124.72
27	A	835	CHL	CHA-C1A-C2A	-4.37	123.03	133.31
27	6	317	CHL	O1D-CGD-CBD	-4.37	118.09	124.72
27	A	823	CHL	O2D-CGD-O1D	-4.37	115.34	123.85
29	7	304	LUT	C10-C11-C12	-4.37	110.53	123.20
29	6	303	LUT	C35-C15-C14	-4.37	114.58	123.52
29	4	302	LUT	C12-C13-C14	-4.37	112.14	119.01
27	A	845	CHL	O1D-CGD-CBD	-4.36	118.10	124.72
29	6	303	LUT	C21-C26-C27	-4.36	107.81	112.83
29	4	301	LUT	C7-C6-C5	-4.36	111.51	121.56
27	B	827	CHL	O1D-CGD-CBD	-4.36	118.12	124.72
27	A	827	CHL	O2D-CGD-O1D	-4.35	115.38	123.85
24	A	811	LHG	O4-P-O5	4.35	132.68	112.44
27	7	321	CHL	C4D-CHA-CBD	-4.35	104.58	108.97
27	8	314	CHL	C1-C2-C3	-4.35	119.08	126.20
27	7	321	CHL	C3D-CAD-CBD	-4.34	101.89	107.61
27	a	311	CHL	O1D-CGD-CBD	-4.34	118.14	124.72
27	3	316	CHL	C1-C2-C3	-4.34	119.08	126.20
29	3	304	LUT	C21-C26-C27	-4.34	107.83	112.83
29	7	304	LUT	C21-C26-C27	-4.34	107.83	112.83
27	5	318	CHL	O2D-CGD-O1D	-4.34	115.40	123.85
27	A	823	CHL	O1D-CGD-CBD	-4.34	118.15	124.72
27	4	320	CHL	O2D-CGD-O1D	-4.33	115.41	123.85
27	7	321	CHL	CGD-CBD-CAD	4.33	124.87	110.85
27	A	857	CHL	O1D-CGD-CBD	-4.33	118.16	124.72
29	4	302	LUT	C18-C5-C4	-4.32	106.47	114.42
29	6	303	LUT	C7-C6-C5	-4.32	111.59	121.56
27	A	819	CHL	O2D-CGD-O1D	-4.32	115.44	123.85
27	A	825	CHL	O1D-CGD-CBD	-4.32	118.17	124.72
27	6	317	CHL	O2D-CGD-O1D	-4.32	115.44	123.85
27	b	309	CHL	C1B-CHB-C4A	4.32	124.10	121.32
27	7	320	CHL	C4D-CHA-CBD	-4.32	104.61	108.97
29	7	304	LUT	C1-C6-C5	-4.31	116.75	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	3	316	CHL	O1D-CGD-CBD	-4.31	118.19	124.72
27	6	312	CHL	O2D-CGD-O1D	-4.31	115.47	123.85
27	A	849	CHL	O2D-CGD-O1D	-4.30	115.47	123.85
27	4	312	CHL	C3D-CAD-CBD	-4.30	101.94	107.61
27	a	310	CHL	O2D-CGD-O1D	-4.30	115.48	123.85
27	3	312	CHL	O2D-CGD-O1D	-4.30	115.48	123.85
27	7	319	CHL	C3D-CAD-CBD	-4.29	101.95	107.61
27	B	847	CHL	O2D-CGD-O1D	-4.28	115.52	123.85
27	K	207	CHL	C4D-CHA-CBD	-4.28	104.66	108.97
27	K	207	CHL	C3D-CAD-CBD	-4.28	101.97	107.61
27	B	832	CHL	CHA-C1A-C2A	-4.26	123.30	133.31
27	a	316	CHL	C3D-CAD-CBD	-4.26	102.00	107.61
27	6	311	CHL	O2D-CGD-O1D	-4.26	115.56	123.85
27	8	324	CHL	O2D-CGD-O1D	-4.26	115.56	123.85
27	A	840	CHL	O2D-CGD-O1D	-4.25	115.57	123.85
29	4	301	LUT	C12-C13-C14	-4.25	112.32	119.01
27	a	315	CHL	C3D-CAD-CBD	-4.25	102.01	107.61
27	3	309	CHL	O2D-CGD-O1D	-4.25	115.58	123.85
29	6	303	LUT	C7-C8-C9	-4.24	119.96	126.23
29	a	302	LUT	C7-C6-C5	-4.23	111.81	121.56
27	8	314	CHL	C3D-CAD-CBD	-4.23	102.04	107.61
27	8	315	CHL	O2D-CGD-O1D	-4.23	115.62	123.85
27	B	832	CHL	O2D-CGD-O1D	-4.22	115.64	123.85
27	4	311	CHL	O1D-CGD-CBD	-4.22	118.33	124.72
27	3	316	CHL	C4D-CHA-CBD	-4.21	104.72	108.97
27	A	833	CHL	C4D-CHA-CBD	-4.21	104.73	108.97
27	L	304	CHL	O2D-CGD-O1D	-4.21	115.66	123.85
27	B	842	CHL	O2D-CGD-O1D	-4.20	115.67	123.85
27	5	325	CHL	C3D-CAD-CBD	-4.20	102.08	107.61
27	B	842	CHL	O1D-CGD-CBD	-4.19	118.36	124.72
27	7	320	CHL	CHA-C1A-C2A	-4.19	123.47	133.31
27	B	846	CHL	O2D-CGD-O1D	-4.18	115.71	123.85
29	J	103	LUT	C7-C6-C5	-4.18	111.92	121.56
29	6	303	LUT	C1-C6-C5	-4.18	116.92	122.64
29	5	303	LUT	C7-C8-C9	-4.17	120.06	126.23
27	B	835	CHL	CHA-C1A-C2A	-4.17	123.51	133.31
27	6	316	CHL	C3D-CAD-CBD	-4.17	102.11	107.61
27	8	321	CHL	C4D-CHA-CBD	-4.16	104.77	108.97
29	3	304	LUT	C7-C6-C5	-4.16	111.97	121.56
27	A	833	CHL	C3D-CAD-CBD	-4.16	102.13	107.61
27	A	848	CHL	O2D-CGD-O1D	-4.15	115.76	123.85
27	6	316	CHL	O1D-CGD-CBD	-4.15	118.43	124.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	835	CHL	O1D-CGD-CBD	-4.15	118.43	124.72
27	4	312	CHL	C4D-CHA-CBD	-4.14	104.79	108.97
27	A	848	CHL	O1D-CGD-CBD	-4.14	118.45	124.72
29	J	103	LUT	C28-C29-C30	-4.13	112.52	119.01
27	3	321	CHL	O2D-CGD-O1D	-4.13	115.82	123.85
27	7	320	CHL	O1D-CGD-CBD	-4.12	118.47	124.72
27	a	316	CHL	C4D-CHA-CBD	-4.12	104.81	108.97
27	A	821	CHL	O1D-CGD-CBD	-4.12	118.48	124.72
29	5	302	LUT	C1-C6-C5	-4.12	117.01	122.64
27	A	854	CHL	O2D-CGD-O1D	-4.11	115.84	123.85
27	A	829	CHL	O2D-CGD-O1D	-4.11	115.84	123.85
27	b	317	CHL	C3D-CAD-CBD	-4.11	102.19	107.61
27	a	318	CHL	C4D-CHA-CBD	-4.11	104.82	108.97
27	A	853	CHL	O2D-CGD-O1D	-4.10	115.86	123.85
27	b	317	CHL	C4D-CHA-CBD	-4.10	104.83	108.97
22	A	803	BCR	C2-C1-C6	4.10	116.40	110.44
27	b	316	CHL	C3D-CAD-CBD	-4.10	102.21	107.61
27	a	318	CHL	C3D-CAD-CBD	-4.09	102.22	107.61
27	5	322	CHL	C3D-CAD-CBD	-4.09	102.22	107.61
27	B	840	CHL	O2D-CGD-O1D	-4.09	115.88	123.85
29	4	301	LUT	C1-C6-C5	-4.09	117.05	122.64
27	A	830	CHL	O1D-CGD-CBD	-4.09	118.52	124.72
27	A	836	CHL	O2D-CGD-O1D	-4.08	115.90	123.85
27	6	318	CHL	C3D-CAD-CBD	-4.08	102.23	107.61
27	4	308	CHL	CBC-CAC-C3C	-4.08	107.03	112.87
27	3	308	CHL	CMC-C2C-C1C	4.07	132.06	124.73
27	5	316	CHL	O2D-CGD-O1D	-4.07	115.93	123.85
27	3	316	CHL	C3D-CAD-CBD	-4.07	102.25	107.61
27	A	842	CHL	C3D-CAD-CBD	-4.06	102.26	107.61
27	B	825	CHL	O1D-CGD-CBD	-4.06	118.57	124.72
27	5	319	CHL	C3D-CAD-CBD	-4.06	102.26	107.61
27	8	324	CHL	C4D-CHA-CBD	-4.06	104.88	108.97
29	4	301	LUT	C7-C8-C9	-4.06	120.23	126.23
27	4	309	CHL	C3D-CAD-CBD	-4.06	102.26	107.61
27	B	829	CHL	O2D-CGD-O1D	-4.06	115.95	123.85
27	A	827	CHL	O1D-CGD-CBD	-4.05	118.57	124.72
27	b	311	CHL	C4D-CHA-CBD	-4.04	104.89	108.97
29	3	305	LUT	C21-C26-C27	-4.04	108.18	112.83
27	B	844	CHL	O1D-CGD-CBD	-4.03	118.61	124.72
27	A	838	CHL	O1D-CGD-CBD	-4.03	118.61	124.72
27	6	316	CHL	C4D-CHA-CBD	-4.03	104.91	108.97
27	4	313	CHL	CMD-C2D-C3D	-4.03	116.64	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	A	815	CL0	C3D-C4D-ND	4.02	119.39	112.94
27	6	317	CHL	C4D-CHA-CBD	-4.02	104.91	108.97
22	K	203	BCR	C2-C1-C6	4.02	116.27	110.44
29	6	302	LUT	C12-C13-C14	-4.01	112.69	119.01
27	K	204	CHL	O2D-CGD-O1D	-4.01	116.04	123.85
27	a	315	CHL	C4D-CHA-CBD	-4.01	104.92	108.97
27	A	850	CHL	O1D-CGD-CBD	-4.01	118.64	124.72
27	4	316	CHL	C3D-CAD-CBD	-4.01	102.33	107.61
27	5	308	CHL	O2D-CGD-O1D	-4.01	116.04	123.85
27	7	313	CHL	O1D-CGD-CBD	-4.01	118.64	124.72
27	a	315	CHL	C1-C2-C3	-4.01	119.63	126.20
29	5	303	LUT	C1-C6-C5	-4.00	117.17	122.64
27	A	855	CHL	O1D-CGD-CBD	-4.00	118.65	124.72
34	8	301	SQD	O9-S-O7	-4.00	100.81	113.82
27	F	309	CHL	O2D-CGD-O1D	-4.00	116.06	123.85
29	4	302	LUT	C7-C8-C9	-4.00	120.32	126.23
27	4	313	CHL	CMC-C2C-C1C	4.00	131.93	124.73
27	7	322	CHL	CGD-CBD-CAD	3.99	123.77	110.85
27	B	842	CHL	CBC-CAC-C3C	-3.99	107.16	112.87
27	5	322	CHL	C4D-CHA-CBD	-3.98	104.95	108.97
27	A	857	CHL	O2D-CGD-O1D	-3.98	116.09	123.85
27	B	814	CHL	O2D-CGD-O1D	-3.98	116.10	123.85
29	8	303	LUT	C7-C8-C9	-3.98	120.35	126.23
27	B	845	CHL	CBC-CAC-C3C	-3.98	107.18	112.87
27	A	859	CHL	O2D-CGD-O1D	-3.97	116.11	123.85
27	5	317	CHL	O1D-CGD-CBD	-3.97	118.70	124.72
27	8	321	CHL	C3D-CAD-CBD	-3.97	102.38	107.61
27	4	316	CHL	C4D-CHA-CBD	-3.97	104.97	108.97
27	6	316	CHL	O2D-CGD-O1D	-3.97	116.13	123.85
27	A	816	CHL	O1D-CGD-CBD	-3.97	118.71	124.72
29	a	302	LUT	C21-C26-C27	-3.96	108.27	112.83
27	5	317	CHL	CGD-CBD-CAD	3.96	123.67	110.85
27	7	318	CHL	CBC-CAC-C3C	-3.95	107.21	112.87
27	5	325	CHL	C4D-CHA-CBD	-3.95	104.98	108.97
27	7	320	CHL	O2D-CGD-O1D	-3.95	116.16	123.85
27	B	820	CHL	O2D-CGD-O1D	-3.95	116.16	123.85
27	5	311	CHL	O2D-CGD-O1D	-3.95	116.16	123.85
27	6	307	CHL	C4D-CHA-CBD	3.94	112.94	108.97
27	b	308	CHL	C1C-CHC-C4B	3.94	130.18	116.07
29	a	304	LUT	C10-C11-C12	-3.94	111.79	123.20
27	A	824	CHL	O1D-CGD-CBD	-3.93	118.76	124.72
27	8	326	CHL	CBC-CAC-C3C	-3.93	107.25	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	6	318	CHL	C4D-CHA-CBD	-3.93	105.01	108.97
29	F	303	LUT	C7-C6-C5	-3.93	112.51	121.56
27	8	324	CHL	C3D-CAD-CBD	-3.93	102.44	107.61
27	6	316	CHL	CGD-CBD-CAD	3.92	123.54	110.85
27	5	310	CHL	O2D-CGD-O1D	-3.92	116.22	123.85
27	a	309	CHL	O1D-CGD-CBD	-3.92	118.78	124.72
34	8	301	SQD	O47-C7-C8	3.91	119.95	111.48
27	8	313	CHL	O1D-CGD-CBD	-3.91	118.79	124.72
27	b	311	CHL	C3D-CAD-CBD	-3.91	102.46	107.61
27	B	827	CHL	O2D-CGD-O1D	-3.91	116.25	123.85
27	7	322	CHL	C4D-CHA-CBD	-3.89	105.05	108.97
27	3	317	CHL	O2D-CGD-O1D	-3.89	116.28	123.85
27	F	308	CHL	O1D-CGD-CBD	-3.89	118.83	124.72
22	B	806	BCR	C15-C16-C17	-3.89	115.57	123.52
27	3	312	CHL	O1D-CGD-CBD	-3.88	118.84	124.72
29	5	302	LUT	C35-C15-C14	-3.87	115.59	123.52
27	A	816	CHL	O2D-CGD-O1D	-3.87	116.31	123.85
27	A	833	CHL	CGD-CBD-CAD	3.87	123.38	110.85
29	5	302	LUT	C7-C6-C5	-3.87	112.64	121.56
29	a	302	LUT	C7-C8-C9	-3.87	120.51	126.23
27	b	316	CHL	C4D-CHA-CBD	-3.87	105.07	108.97
27	A	825	CHL	C1-C2-C3	-3.86	119.87	126.20
27	A	850	CHL	O2D-CGD-O1D	-3.86	116.33	123.85
27	b	315	CHL	C1-C2-C3	-3.86	119.87	126.20
27	A	854	CHL	O1D-CGD-CBD	-3.86	118.88	124.72
27	B	838	CHL	O2D-CGD-O1D	-3.85	116.35	123.85
27	5	317	CHL	C3D-CAD-CBD	-3.85	102.54	107.61
27	7	322	CHL	C3D-CAD-CBD	-3.85	102.54	107.61
27	4	309	CHL	C4D-CHA-CBD	-3.85	105.09	108.97
27	a	314	CHL	O1D-CGD-CBD	-3.85	118.89	124.72
27	3	318	CHL	C4-C3-C5	3.85	120.65	116.13
27	B	830	CHL	O1D-CGD-CBD	-3.83	118.91	124.72
27	A	837	CHL	O2D-CGD-O1D	-3.83	116.40	123.85
27	5	325	CHL	CGD-CBD-CAD	3.83	123.23	110.85
27	7	311	CHL	O2D-CGD-O1D	-3.82	116.41	123.85
29	a	302	LUT	C1-C6-C5	-3.82	117.41	122.64
27	B	823	CHL	O2D-CGD-O1D	-3.82	116.41	123.85
27	a	319	CHL	C1-C2-C3	-3.82	120.58	126.76
27	5	317	CHL	C4D-CHA-CBD	-3.82	105.12	108.97
27	A	831	CHL	C1B-CHB-C4A	3.82	123.78	121.32
27	A	817	CHL	O2D-CGD-O1D	-3.81	116.43	123.85
27	b	305	CHL	O1D-CGD-CBD	-3.81	118.94	124.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	b	303	LUT	C15-C35-C34	3.81	131.31	123.52
27	8	325	CHL	O2D-CGD-O1D	-3.80	116.44	123.85
29	b	303	LUT	C39-C29-C30	-3.80	116.66	122.82
27	B	844	CHL	O2D-CGD-O1D	-3.80	116.45	123.85
27	3	313	CHL	O1D-CGD-CBD	-3.80	118.96	124.72
27	6	310	CHL	O2D-CGD-O1D	-3.79	116.47	123.85
29	b	303	LUT	C35-C15-C14	3.79	131.27	123.52
27	K	205	CHL	O1D-CGD-CBD	-3.78	118.98	124.72
27	6	308	CHL	CMB-C2B-C3B	3.78	132.24	124.68
22	J	102	BCR	C2-C1-C6	3.78	115.93	110.44
27	7	322	CHL	O1D-CGD-CBD	-3.78	118.99	124.72
29	3	304	LUT	C1-C6-C5	-3.78	117.47	122.64
27	5	321	CHL	O2D-CGD-O1D	-3.78	116.50	123.85
29	J	103	LUT	C21-C26-C27	-3.78	108.48	112.83
27	A	824	CHL	O2D-CGD-O1D	-3.77	116.50	123.85
27	A	832	CHL	C4-C3-C5	3.77	121.78	115.23
27	B	831	CHL	O1D-CGD-CBD	-3.77	119.00	124.72
27	A	844	CHL	C1-C2-C3	-3.76	120.03	126.20
27	5	319	CHL	C4D-CHA-CBD	-3.76	105.18	108.97
29	5	303	LUT	C30-C31-C32	-3.76	112.31	123.20
27	b	316	CHL	CGD-CBD-CAD	3.76	123.01	110.85
27	5	323	CHL	CBC-CAC-C3C	-3.76	107.49	112.87
29	6	303	LUT	C18-C5-C4	-3.76	107.51	114.42
27	4	314	CHL	O1D-CGD-CBD	-3.75	119.04	124.72
27	3	313	CHL	O2D-CGD-O1D	-3.75	116.56	123.85
29	b	301	LUT	C1-C6-C5	-3.75	117.52	122.64
29	3	305	LUT	C7-C8-C9	-3.74	120.70	126.23
27	A	858	CHL	C4-C3-C5	3.74	121.71	115.23
27	7	323	CHL	C1-C2-C3	-3.73	120.08	126.20
27	a	315	CHL	CGD-CBD-CAD	3.73	122.93	110.85
27	3	311	CHL	O2D-CGD-O1D	-3.73	116.59	123.85
29	8	303	LUT	C18-C5-C4	-3.73	107.57	114.42
27	3	316	CHL	CGD-CBD-CAD	3.73	122.91	110.85
29	4	301	LUT	C30-C31-C32	-3.73	112.40	123.20
27	B	831	CHL	O2D-CGD-O1D	-3.72	116.60	123.85
28	7	307	DGD	O3G-C3G-C2G	-3.72	101.77	110.82
27	5	315	CHL	CBC-CAC-C3C	-3.72	107.55	112.87
27	3	319	CHL	O1D-CGD-CBD	-3.72	119.08	124.72
27	4	304	CHL	O1D-CGD-CBD	-3.72	119.09	124.72
27	6	318	CHL	CGD-CBD-CAD	3.72	122.88	110.85
27	6	314	CHL	O1D-CGD-CBD	-3.71	119.09	124.72
22	A	805	BCR	C2-C1-C6	3.71	115.83	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	7	303	BCR	C2-C1-C6	3.71	115.83	110.44
29	4	301	LUT	C35-C15-C14	-3.71	115.94	123.52
27	L	303	CHL	C4D-CHA-CBD	3.71	112.70	108.97
27	A	842	CHL	OBD-CAD-C3D	3.70	133.67	127.89
27	4	309	CHL	CGD-CBD-CAD	3.70	122.83	110.85
27	7	320	CHL	C3D-CAD-CBD	-3.70	102.73	107.61
27	a	316	CHL	CGD-CBD-CAD	3.70	122.82	110.85
27	4	313	CHL	CHA-C1A-C2A	-3.70	124.63	133.31
27	4	319	CHL	O2D-CGD-O1D	-3.69	116.66	123.85
27	b	311	CHL	CGD-CBD-CAD	3.69	122.80	110.85
29	a	302	LUT	C35-C15-C14	-3.69	115.98	123.52
27	b	317	CHL	CGD-CBD-CAD	3.68	122.77	110.85
27	5	322	CHL	CGD-CBD-CAD	3.68	122.76	110.85
27	4	317	CHL	CHA-C1A-C2A	-3.68	124.67	133.31
29	a	302	LUT	C30-C31-C32	-3.68	112.55	123.20
29	b	303	LUT	C19-C9-C10	-3.67	116.86	122.82
27	4	312	CHL	CGD-CBD-CAD	3.67	122.72	110.85
27	B	845	CHL	O2D-CGD-O1D	-3.66	116.72	123.85
27	b	305	CHL	O2D-CGD-O1D	-3.66	116.72	123.85
27	a	309	CHL	O2D-CGD-O1D	-3.66	116.73	123.85
27	B	812	CHL	O1D-CGD-CBD	-3.66	119.18	124.72
29	7	304	LUT	C7-C6-C5	-3.65	113.14	121.56
27	A	841	CHL	CGD-CBD-CAD	3.65	122.67	110.85
27	5	319	CHL	CGD-CBD-CAD	3.65	122.66	110.85
27	6	315	CHL	O1D-CGD-CBD	-3.65	119.19	124.72
27	L	303	CHL	C1-C2-C3	-3.64	120.23	126.20
27	B	828	CHL	O2D-CGD-O1D	-3.64	116.77	123.85
22	6	301	BCR	C15-C16-C17	3.63	130.96	123.52
29	J	103	LUT	C8-C7-C6	-3.63	117.29	127.00
27	8	324	CHL	CGD-CBD-CAD	3.63	122.61	110.85
27	6	308	CHL	C1-C2-C3	-3.63	120.25	126.20
27	B	851	CHL	O2D-CGD-O1D	-3.63	116.79	123.85
29	F	303	LUT	C21-C26-C27	-3.63	108.66	112.83
27	K	204	CHL	CBC-CAC-C3C	-3.62	107.69	112.87
27	7	316	CHL	O1D-CGD-CBD	-3.62	119.23	124.72
27	6	307	CHL	C1-C2-C3	-3.62	120.27	126.20
27	A	840	CHL	CHA-C1A-C2A	-3.62	124.81	133.31
27	8	319	CHL	C4-C3-C5	3.61	121.49	115.23
34	8	301	SQD	O9-S-C6	3.61	112.14	106.76
27	A	841	CHL	CMA-C3A-C4A	-3.60	106.84	114.61
27	A	833	CHL	C1-C2-C3	-3.60	120.30	126.20
27	A	842	CHL	C1-C2-C3	-3.60	120.30	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	5	313	CHL	CBC-CAC-C3C	-3.60	107.72	112.87
29	5	302	LUT	C30-C31-C32	-3.59	112.78	123.20
27	K	207	CHL	CGD-CBD-CAD	3.59	122.48	110.85
27	K	205	CHL	O2D-CGD-O1D	-3.59	116.86	123.85
29	3	305	LUT	C30-C31-C32	-3.59	112.80	123.20
27	8	317	CHL	O1D-CGD-CBD	-3.58	119.29	124.72
27	A	821	CHL	O2D-CGD-O1D	-3.58	116.88	123.85
27	b	310	CHL	O2D-CGD-O1D	-3.58	116.89	123.85
29	6	303	LUT	C30-C31-C32	-3.57	112.84	123.20
27	3	320	CHL	C1-C2-C3	-3.57	120.34	126.20
27	B	845	CHL	O1D-CGD-CBD	-3.57	119.31	124.72
27	8	311	CHL	O1D-CGD-CBD	-3.57	119.31	124.72
29	a	304	LUT	C4-C5-C6	-3.56	113.44	120.76
29	b	301	LUT	C10-C11-C12	-3.56	112.88	123.20
27	A	817	CHL	O1D-CGD-CBD	-3.56	119.33	124.72
27	A	858	CHL	O1D-CGD-CBD	-3.56	119.33	124.72
28	7	307	DGD	O6D-C1D-O3G	-3.55	101.66	110.04
22	6	301	BCR	C34-C9-C10	-3.55	117.06	122.82
27	5	313	CHL	C1A-CHA-C4D	-3.55	113.06	118.98
27	B	846	CHL	C1-C2-C3	-3.55	120.39	126.20
27	A	843	CHL	CMB-C2B-C3B	3.54	131.76	124.68
27	a	315	CHL	O2D-CGD-O1D	-3.54	116.96	123.85
29	6	303	LUT	C10-C11-C12	-3.54	112.95	123.20
27	A	825	CHL	O2D-CGD-O1D	-3.54	116.96	123.85
33	7	305	XAT	C35-C15-C14	3.53	130.75	123.52
27	7	318	CHL	O2D-CGD-O1D	-3.53	116.97	123.85
27	b	308	CHL	CHA-C1A-C2A	-3.53	125.02	133.31
27	A	831	CHL	CMB-C2B-C3B	3.53	131.73	124.68
27	6	320	CHL	O1D-CGD-CBD	-3.52	119.38	124.72
27	4	318	CHL	O1D-CGD-CBD	-3.52	119.38	124.72
27	5	320	CHL	O1D-CGD-CBD	-3.52	119.38	124.72
29	4	302	LUT	C21-C26-C27	-3.52	108.78	112.83
27	5	322	CHL	O1D-CGD-CBD	-3.52	119.39	124.72
27	A	847	CHL	O1D-CGD-CBD	-3.51	119.39	124.72
27	4	316	CHL	CGD-CBD-CAD	3.51	122.21	110.85
29	8	304	LUT	C7-C6-C5	-3.51	113.48	121.56
33	7	305	XAT	C19-C9-C10	-3.51	117.14	122.82
27	3	315	CHL	C4-C3-C5	3.50	121.30	115.23
27	B	849	CHL	C1-C2-C3	-3.50	120.46	126.20
27	5	315	CHL	C1-C2-C3	-3.49	120.47	126.20
27	b	316	CHL	O1D-CGD-CBD	-3.49	119.42	124.72
27	b	313	CHL	O1D-CGD-CBD	-3.49	119.43	124.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	3	311	CHL	CMA-C3A-C4A	-3.49	107.09	114.61
27	b	307	CHL	O1D-CGD-CBD	-3.49	119.43	124.72
27	A	846	CHL	C2C-C1C-NC	3.49	120.33	110.46
27	7	320	CHL	CGD-CBD-CAD	3.49	122.14	110.85
27	6	306	CHL	C4-C3-C5	3.49	121.28	115.23
27	a	319	CHL	O1D-CGD-CBD	-3.48	119.44	124.72
27	a	311	CHL	O2D-CGD-O1D	-3.48	117.07	123.85
27	5	315	CHL	O2D-CGD-O1D	-3.48	117.07	123.85
27	A	826	CHL	O2D-CGD-O1D	-3.48	117.07	123.85
27	b	315	CHL	O2D-CGD-O1D	-3.48	117.07	123.85
27	7	317	CHL	O2D-CGD-O1D	-3.48	117.07	123.85
29	8	303	LUT	C10-C11-C12	-3.48	113.12	123.20
27	5	309	CHL	O1D-CGD-CBD	-3.48	119.45	124.72
27	A	843	CHL	C16-C15-C13	-3.48	104.41	115.97
27	8	323	CHL	C4C-CHD-C1D	3.48	128.50	116.07
27	B	837	CHL	O1D-CGD-CBD	-3.47	119.46	124.72
29	b	301	LUT	C4-C5-C6	-3.47	113.62	120.76
27	6	317	CHL	C3D-CAD-CBD	-3.47	103.04	107.61
27	A	831	CHL	O2D-CGD-O1D	-3.47	117.10	123.85
27	5	307	CHL	C1-C2-C3	-3.46	120.52	126.20
27	A	856	CHL	C1-C2-C3	-3.46	120.52	126.20
27	5	321	CHL	O1D-CGD-CBD	-3.46	119.47	124.72
29	6	302	LUT	C7-C8-C9	-3.46	121.12	126.23
27	a	317	CHL	O1D-CGD-CBD	-3.46	119.48	124.72
29	8	304	LUT	C30-C31-C32	-3.46	113.19	123.20
27	a	318	CHL	CGD-CBD-CAD	3.45	122.03	110.85
29	7	304	LUT	C30-C31-C32	-3.45	113.20	123.20
27	5	313	CHL	C2C-C1C-NC	3.44	120.21	110.46
27	A	853	CHL	O1D-CGD-CBD	-3.44	119.50	124.72
27	B	815	CHL	O2D-CGD-O1D	-3.44	117.14	123.85
29	3	305	LUT	C18-C5-C4	-3.44	108.09	114.42
27	7	311	CHL	O2A-CGA-CBA	3.44	122.31	111.83
22	6	301	BCR	C37-C22-C21	-3.43	117.25	122.82
22	3	303	BCR	C11-C10-C9	-3.43	122.46	127.28
27	3	314	CHL	O1D-CGD-CBD	-3.43	119.52	124.72
27	6	307	CHL	C1A-CHA-C4D	-3.43	113.26	118.98
27	B	812	CHL	O2D-CGD-O1D	-3.42	117.18	123.85
30	J	104	LMG	O6-C1-O1	-3.42	101.96	110.04
27	5	316	CHL	C4-C3-C5	3.42	121.17	115.23
33	7	305	XAT	C39-C29-C30	-3.42	117.27	122.82
29	3	304	LUT	C30-C31-C32	-3.42	113.29	123.20
27	B	811	CHL	O1D-CGD-CBD	-3.42	119.54	124.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	825	CHL	O2D-CGD-O1D	-3.42	117.20	123.85
27	5	309	CHL	C4-C3-C5	3.42	121.16	115.23
27	B	840	CHL	O2A-CGA-CBA	3.41	122.25	111.83
27	a	313	CHL	O2D-CGD-O1D	-3.41	117.20	123.85
29	5	302	LUT	C7-C8-C9	-3.41	121.19	126.23
29	a	302	LUT	C10-C11-C12	-3.41	113.32	123.20
27	3	316	CHL	O2A-CGA-CBA	3.41	122.22	111.83
27	5	313	CHL	C4D-CHA-CBD	3.41	112.40	108.97
27	4	314	CHL	O2D-CGD-O1D	-3.41	117.22	123.85
27	B	843	CHL	CMB-C2B-C3B	3.41	131.49	124.68
27	7	311	CHL	C1-C2-C3	-3.41	120.62	126.20
27	6	309	CHL	O2D-CGD-O1D	-3.41	117.22	123.85
27	A	855	CHL	CMA-C3A-C4A	-3.40	107.28	114.61
27	7	322	CHL	O2D-CGD-O1D	-3.40	117.22	123.85
29	5	303	LUT	C18-C5-C4	-3.40	108.17	114.42
27	b	310	CHL	O1D-CGD-CBD	-3.40	119.56	124.72
29	6	302	LUT	C18-C5-C4	-3.40	108.17	114.42
29	5	302	LUT	C10-C11-C12	-3.40	113.35	123.20
29	J	103	LUT	C10-C11-C12	-3.40	113.35	123.20
27	b	308	CHL	CMD-C2D-C3D	-3.40	117.89	124.68
27	3	317	CHL	C4-C3-C5	3.39	121.12	115.23
27	6	308	CHL	O2A-CGA-CBA	3.39	122.18	111.83
27	4	307	CHL	O2D-CGD-O1D	-3.39	117.25	123.85
27	3	310	CHL	O1D-CGD-CBD	-3.39	119.58	124.72
27	B	851	CHL	C1-C2-C3	-3.39	120.65	126.20
27	A	855	CHL	CBC-CAC-C3C	-3.39	108.03	112.87
27	8	325	CHL	CAA-C2A-C3A	-3.38	103.86	113.00
27	A	846	CHL	O2D-CGD-O1D	-3.38	117.27	123.85
27	A	836	CHL	CMA-C3A-C4A	-3.38	107.33	114.61
27	a	313	CHL	O1D-CGD-CBD	-3.38	119.60	124.72
29	3	304	LUT	C10-C11-C12	-3.38	113.41	123.20
27	8	315	CHL	CBC-CAC-C3C	-3.37	108.04	112.87
27	7	316	CHL	O2D-CGD-O1D	-3.37	117.28	123.85
27	a	315	CHL	O2A-CGA-CBA	3.37	122.12	111.83
29	b	301	LUT	C30-C31-C32	-3.37	113.43	123.20
27	6	307	CHL	C2C-C1C-NC	3.37	119.99	110.46
27	8	314	CHL	CGD-CBD-CAD	3.36	121.74	110.85
27	A	855	CHL	O2A-CGA-CBA	3.36	122.09	111.83
29	8	304	LUT	C4-C5-C6	-3.36	113.85	120.76
27	8	317	CHL	O2D-CGD-O1D	-3.36	117.31	123.85
29	a	302	LUT	C18-C5-C4	-3.36	108.24	114.42
27	B	843	CHL	O1D-CGD-CBD	-3.36	119.63	124.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	F	303	LUT	C30-C31-C32	-3.36	113.48	123.20
27	3	313	CHL	CMA-C3A-C4A	-3.35	107.39	114.61
27	A	831	CHL	C2C-C1C-NC	3.35	119.93	110.46
27	A	838	CHL	O2D-CGD-O1D	-3.35	117.33	123.85
27	A	846	CHL	C1B-CHB-C4A	3.34	123.47	121.32
29	b	301	LUT	C18-C5-C4	-3.34	108.28	114.42
27	8	311	CHL	O2D-CGD-O1D	-3.34	117.35	123.85
27	8	312	CHL	O2A-CGA-CBA	3.33	122.00	111.83
27	B	848	CHL	O2D-CGD-O1D	-3.33	117.36	123.85
27	A	842	CHL	CGD-CBD-CAD	3.33	121.63	110.85
27	a	320	CHL	O1D-CGD-CBD	-3.33	119.67	124.72
29	6	302	LUT	C10-C11-C12	-3.33	113.56	123.20
22	6	301	BCR	C16-C15-C14	3.33	130.32	123.52
27	3	319	CHL	O2D-CGD-O1D	-3.33	117.37	123.85
27	8	321	CHL	CGD-CBD-CAD	3.32	121.60	110.85
29	a	304	LUT	C30-C31-C32	-3.32	113.58	123.20
29	3	304	LUT	C8-C7-C6	-3.32	118.13	127.00
27	6	314	CHL	O2D-CGD-O1D	-3.32	117.39	123.85
27	A	817	CHL	CMD-C2D-C3D	3.31	131.30	124.68
29	a	304	LUT	C18-C5-C4	-3.31	108.33	114.42
27	B	832	CHL	C1-C2-C3	-3.31	120.77	126.20
27	5	316	CHL	C6-C5-C3	-3.31	105.41	113.47
27	A	829	CHL	C1-C2-C3	-3.31	120.78	126.20
27	7	319	CHL	OBD-CAD-C3D	3.30	133.05	127.89
27	4	314	CHL	CBC-CAC-C3C	-3.30	108.14	112.87
27	5	315	CHL	O1D-CGD-CBD	-3.30	119.72	124.72
27	A	847	CHL	O2D-CGD-O1D	-3.30	117.43	123.85
27	8	315	CHL	CMC-C2C-C1C	3.29	130.66	124.73
29	6	302	LUT	C35-C15-C14	-3.29	116.78	123.52
27	B	811	CHL	O2D-CGD-O1D	-3.29	117.44	123.85
27	A	847	CHL	C4-C3-C5	3.28	120.93	115.23
27	B	812	CHL	O2A-CGA-CBA	3.28	121.85	111.83
27	B	845	CHL	C1-C2-C3	-3.28	121.45	126.76
29	b	301	LUT	C7-C8-C9	-3.28	121.38	126.23
29	3	305	LUT	C12-C13-C14	-3.28	113.84	119.01
27	B	820	CHL	C4-C3-C5	3.28	120.92	115.23
27	B	815	CHL	O1D-CGD-CBD	-3.28	119.75	124.72
27	F	309	CHL	C1-C2-C3	-3.27	121.47	126.76
27	4	307	CHL	O1D-CGD-CBD	-3.27	119.76	124.72
27	A	850	CHL	C4-C3-C5	3.27	120.90	115.23
27	a	311	CHL	C4-C3-C5	3.27	120.90	115.23
27	B	821	CHL	O2D-CGD-O1D	-3.27	117.49	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	K	204	CHL	CMD-C2D-C3D	3.27	131.21	124.68
29	4	301	LUT	C10-C11-C12	-3.27	113.74	123.20
27	A	843	CHL	C1B-CHB-C4A	3.26	123.42	121.32
27	F	308	CHL	O2D-CGD-O1D	-3.26	117.50	123.85
27	A	817	CHL	C1-C2-C3	-3.25	120.87	126.20
27	4	308	CHL	O1D-CGD-CBD	-3.25	119.80	124.72
27	b	304	CHL	O1D-CGD-CBD	-3.24	119.80	124.72
27	5	307	CHL	CMB-C2B-C3B	3.24	131.16	124.68
26	A	815	CL0	C1-C2-C3	-3.24	120.89	126.20
27	8	322	CHL	O1D-CGD-CBD	-3.24	119.81	124.72
29	3	305	LUT	C8-C7-C6	-3.24	118.34	127.00
29	4	302	LUT	C35-C15-C14	-3.24	116.89	123.52
29	4	302	LUT	C10-C11-C12	-3.24	113.82	123.20
27	b	306	CHL	O2D-CGD-O1D	-3.24	117.55	123.85
26	A	815	CL0	C2C-C1C-NC	3.24	119.62	110.46
27	B	813	CHL	CBC-CAC-C3C	-3.24	108.24	112.87
27	5	311	CHL	CMB-C2B-C3B	3.24	131.15	124.68
22	6	301	BCR	C1-C6-C5	-3.24	118.22	122.64
27	3	319	CHL	C1-C2-C3	-3.23	120.90	126.20
27	B	839	CHL	O2D-CGD-O1D	-3.23	117.56	123.85
27	A	855	CHL	O2D-CGD-O1D	-3.23	117.56	123.85
27	6	306	CHL	O2A-CGA-CBA	3.23	121.67	111.83
33	7	305	XAT	C15-C35-C34	3.23	130.12	123.52
27	B	839	CHL	O1D-CGD-CBD	-3.23	119.83	124.72
27	B	812	CHL	C1-C2-C3	-3.22	120.92	126.20
27	3	308	CHL	O2A-CGA-CBA	3.22	121.64	111.83
29	4	301	LUT	C8-C7-C6	-3.21	118.41	127.00
27	B	828	CHL	CMA-C3A-C4A	-3.21	107.69	114.61
27	A	843	CHL	C4C-C3C-C2C	-3.21	100.69	113.37
27	b	307	CHL	O2D-CGD-O1D	-3.21	117.60	123.85
27	3	314	CHL	O2D-CGD-O1D	-3.20	117.62	123.85
29	5	302	LUT	C8-C7-C6	-3.20	118.45	127.00
27	L	303	CHL	C1A-CHA-C4D	-3.20	113.64	118.98
27	3	320	CHL	O2A-CGA-CBA	3.20	121.58	111.83
29	F	303	LUT	C10-C11-C12	-3.20	113.94	123.20
27	5	307	CHL	O2A-CGA-CBA	3.19	121.56	111.83
27	a	315	CHL	OBD-CAD-C3D	3.19	132.87	127.89
27	6	315	CHL	O2D-CGD-O1D	-3.19	117.64	123.85
27	A	826	CHL	O1D-CGD-CBD	-3.19	119.89	124.72
27	A	845	CHL	C1-C2-C3	-3.19	120.97	126.20
27	8	322	CHL	O2A-CGA-CBA	3.19	121.55	111.83
27	a	319	CHL	O2D-CGD-O1D	-3.19	117.64	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	850	CHL	C1-C2-C3	-3.19	121.61	126.76
27	B	818	CHL	O1D-CGD-CBD	-3.18	119.89	124.72
29	8	304	LUT	C16-C1-C6	-3.18	105.25	110.24
27	a	315	CHL	O1D-CGD-CBD	-3.18	119.90	124.72
27	5	325	CHL	O2D-CGD-O1D	-3.18	117.66	123.85
26	A	815	CL0	CMB-C2B-C3B	3.18	131.03	124.68
20	B	801	PQN	C11-C3-C4	-3.18	115.23	118.58
27	A	817	CHL	CMB-C2B-C3B	3.18	131.03	124.68
27	3	313	CHL	C1-C2-C3	-3.18	121.00	126.20
27	4	313	CHL	C1C-CHC-C4B	3.17	127.43	116.07
27	a	319	CHL	O2A-CGA-CBA	3.17	121.51	111.83
27	K	204	CHL	C1-C2-C3	-3.17	121.63	126.76
27	b	314	CHL	O1D-CGD-CBD	-3.17	119.91	124.72
27	3	308	CHL	CMB-C2B-C3B	3.17	131.02	124.68
27	4	319	CHL	C1A-CHA-C4D	-3.17	113.69	118.98
27	B	839	CHL	CMB-C2B-C3B	3.17	131.02	124.68
27	A	830	CHL	O2A-CGA-CBA	3.17	121.50	111.83
27	A	848	CHL	C4-C3-C5	3.17	120.73	115.23
27	A	830	CHL	O2D-CGD-O1D	-3.17	117.68	123.85
27	6	307	CHL	O1D-CGD-CBD	-3.17	119.92	124.72
27	5	319	CHL	O1D-CGD-CBD	-3.16	119.93	124.72
27	B	834	CHL	C1-C2-C3	-3.16	121.03	126.20
27	A	843	CHL	C3D-C4D-ND	3.15	117.99	112.94
27	B	837	CHL	C4-C3-C5	3.15	120.69	115.23
27	a	314	CHL	O2D-CGD-O1D	-3.14	117.73	123.85
27	a	318	CHL	O1D-CGD-CBD	-3.14	119.96	124.72
29	b	301	LUT	C8-C7-C6	-3.14	118.61	127.00
27	a	311	CHL	CBC-CAC-C3C	-3.14	108.38	112.87
28	B	809	DGD	O6D-C1D-O3G	-3.14	102.63	110.04
27	6	309	CHL	O1D-CGD-CBD	-3.14	119.97	124.72
27	b	311	CHL	O1D-CGD-CBD	-3.14	119.97	124.72
27	A	832	CHL	CMC-C2C-C1C	3.14	130.38	124.73
27	A	858	CHL	O2D-CGD-O1D	-3.14	117.75	123.85
27	A	843	CHL	C2C-C1C-NC	3.13	119.32	110.46
27	4	310	CHL	O1D-CGD-CBD	-3.13	119.98	124.72
27	A	834	CHL	C1-C2-C3	-3.13	121.07	126.20
27	8	313	CHL	C1-C2-C3	-3.13	121.70	126.76
27	B	842	CHL	C1-C2-C3	-3.13	121.07	126.20
27	8	325	CHL	O2A-CGA-CBA	3.13	121.37	111.83
27	B	813	CHL	CMC-C2C-C1C	3.12	130.36	124.73
27	3	317	CHL	CBC-CAC-C3C	-3.12	108.40	112.87
29	J	103	LUT	C17-C1-C6	-3.12	105.34	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	b	303	LUT	C12-C13-C14	3.12	123.92	119.01
27	a	317	CHL	C4-C3-C5	3.12	120.65	115.23
27	7	319	CHL	C4-C3-C5	3.12	120.65	115.23
27	B	849	CHL	O1D-CGD-CBD	-3.12	119.99	124.72
27	a	320	CHL	O2D-CGD-O1D	-3.12	117.77	123.85
27	A	843	CHL	C4-C3-C5	3.12	120.65	115.23
27	B	830	CHL	O2D-CGD-O1D	-3.12	117.78	123.85
26	A	815	CL0	O2D-CGD-O1D	-3.11	117.79	123.85
27	5	312	CHL	C1-C2-C3	-3.11	121.73	126.76
27	3	308	CHL	C1-C2-C3	-3.11	121.10	126.20
27	5	307	CHL	O2D-CGD-O1D	-3.11	117.80	123.85
27	8	313	CHL	O2D-CGD-O1D	-3.11	117.80	123.85
27	a	317	CHL	O2D-CGD-O1D	-3.11	117.80	123.85
27	b	312	CHL	O1D-CGD-CBD	-3.11	120.01	124.72
27	4	312	CHL	O2A-CGA-CBA	3.11	121.30	111.83
29	b	303	LUT	C20-C13-C14	-3.10	117.79	122.82
27	B	832	CHL	CBC-CAC-C3C	-3.10	108.43	112.87
27	A	842	CHL	O2D-CGD-O1D	-3.10	117.81	123.85
29	J	103	LUT	C30-C31-C32	-3.10	114.22	123.20
27	a	307	CHL	CMB-C2B-C3B	3.10	130.87	124.68
27	a	307	CHL	C1-C2-C3	-3.10	121.12	126.20
22	B	806	BCR	C15-C14-C13	-3.10	122.94	127.28
27	A	823	CHL	CMA-C3A-C4A	-3.10	107.94	114.61
29	6	302	LUT	C8-C7-C6	-3.10	118.73	127.00
27	7	317	CHL	CBC-CAC-C3C	-3.09	108.44	112.87
27	B	829	CHL	CBC-CAC-C3C	-3.09	108.44	112.87
27	8	317	CHL	C1-C2-C3	-3.09	121.13	126.20
27	8	322	CHL	O2D-CGD-O1D	-3.09	117.83	123.85
29	b	303	LUT	C32-C33-C34	3.09	123.86	119.01
27	B	839	CHL	O2A-CGA-CBA	3.08	121.24	111.83
27	4	320	CHL	CAA-CBA-CGA	-3.08	104.46	113.21
27	B	814	CHL	CMB-C2B-C3B	3.08	130.84	124.68
27	A	856	CHL	O1D-CGD-CBD	-3.08	120.05	124.72
27	B	818	CHL	O2D-CGD-O1D	-3.08	117.86	123.85
27	B	841	CHL	C1-C2-C3	-3.08	121.16	126.20
22	7	303	BCR	C28-C27-C26	-3.08	108.57	114.06
29	3	304	LUT	C18-C5-C4	-3.07	108.77	114.42
29	a	302	LUT	C8-C7-C6	-3.07	118.79	127.00
27	A	831	CHL	C4C-C3C-C2C	-3.07	101.23	113.37
27	A	830	CHL	CMB-C2B-C3B	3.07	130.82	124.68
27	5	313	CHL	O2A-CGA-CBA	3.07	121.19	111.83
29	8	303	LUT	C12-C13-C14	-3.07	114.18	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	6	320	CHL	O2D-CGD-O1D	-3.07	117.88	123.85
27	7	315	CHL	CBC-CAC-C3C	-3.07	108.48	112.87
27	B	835	CHL	O2D-CGD-O1D	-3.07	117.88	123.85
27	B	850	CHL	CMB-C2B-C3B	3.07	130.81	124.68
27	B	821	CHL	CBC-CAC-C3C	-3.07	108.48	112.87
27	a	319	CHL	CBC-CAC-C3C	-3.06	108.49	112.87
27	B	814	CHL	O2A-CGA-CBA	3.06	121.17	111.83
29	b	303	LUT	C8-C9-C10	3.06	123.82	119.01
27	4	308	CHL	C1-C2-C3	-3.06	121.19	126.20
27	B	849	CHL	O2D-CGD-O1D	-3.06	117.89	123.85
27	B	828	CHL	C4-C3-C5	3.06	120.54	115.23
27	6	308	CHL	OMC-CMC-C2C	-3.06	119.81	125.12
29	3	304	LUT	C35-C15-C14	-3.06	117.27	123.52
27	A	847	CHL	CMB-C2B-C3B	3.05	130.78	124.68
22	K	202	BCR	C27-C26-C25	3.05	126.83	122.70
27	5	323	CHL	C1-C2-C3	-3.05	121.20	126.20
27	a	312	CHL	C1-C2-C3	-3.05	121.83	126.76
22	B	802	BCR	C27-C26-C25	3.05	126.82	122.70
27	4	313	CHL	O1D-CGD-CBD	-3.05	120.10	124.72
29	5	303	LUT	C17-C1-C6	-3.04	105.47	110.24
27	5	313	CHL	C4-C3-C5	3.04	120.51	115.23
27	3	312	CHL	CMB-C2B-C3B	3.04	130.76	124.68
29	J	103	LUT	C18-C5-C4	-3.04	108.83	114.42
27	4	304	CHL	CMB-C2B-C3B	3.04	130.76	124.68
27	8	326	CHL	O2D-CGD-O1D	-3.04	117.93	123.85
27	7	313	CHL	O2D-CGD-O1D	-3.04	117.94	123.85
27	L	303	CHL	C4C-C3C-C2C	-3.04	101.38	113.37
27	B	815	CHL	C1-C2-C3	-3.04	121.22	126.20
27	5	325	CHL	O1D-CGD-CBD	-3.03	120.12	124.72
27	b	315	CHL	O1D-CGD-CBD	-3.03	120.12	124.72
27	6	307	CHL	O2D-CGD-O1D	-3.03	117.94	123.85
29	3	304	LUT	C7-C8-C9	-3.03	121.75	126.23
27	4	311	CHL	O2D-CGD-O1D	-3.03	117.95	123.85
27	B	836	CHL	O2D-CGD-O1D	-3.03	117.95	123.85
27	L	303	CHL	C2C-C1C-NC	3.03	119.04	110.46
27	A	854	CHL	CMB-C2B-C3B	3.03	130.74	124.68
27	A	816	CHL	CMD-C2D-C3D	3.03	130.74	124.68
29	8	303	LUT	C8-C7-C6	-3.03	118.91	127.00
27	A	825	CHL	O2A-CGA-CBA	3.03	121.06	111.83
22	J	102	BCR	C24-C23-C22	-3.02	121.76	126.23
27	B	848	CHL	O1D-CGD-CBD	-3.02	120.14	124.72
27	a	316	CHL	O1D-CGD-CBD	-3.02	120.14	124.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	8	323	CHL	C1C-CHC-C4B	3.02	126.88	116.07
27	B	845	CHL	O2A-CGA-CBA	3.02	121.04	111.83
27	8	323	CHL	CMB-C2B-C3B	3.02	130.71	124.68
27	b	315	CHL	O2A-CGA-CBA	3.02	121.03	111.83
27	5	320	CHL	O2D-CGD-O1D	-3.02	117.98	123.85
27	6	317	CHL	CBC-CAC-C3C	-3.02	108.56	112.87
27	3	308	CHL	O2D-CGD-O1D	-3.01	117.98	123.85
27	4	310	CHL	O2D-CGD-O1D	-3.01	117.98	123.85
27	A	844	CHL	CMB-C2B-C3B	3.01	130.70	124.68
27	L	303	CHL	O1D-CGD-CBD	-3.01	120.16	124.72
27	5	316	CHL	C1C-CHC-C4B	3.01	126.84	116.07
27	4	309	CHL	O2D-CGD-O1D	-3.01	117.99	123.85
26	A	815	CL0	C4-C3-C5	3.01	120.45	115.23
27	K	207	CHL	OBD-CAD-C3D	3.01	132.59	127.89
27	b	316	CHL	O2D-CGD-O1D	-3.01	118.00	123.85
27	7	324	CHL	O1D-CGD-CBD	-3.00	120.17	124.72
27	B	822	CHL	C1-C2-C3	-3.00	121.28	126.20
27	4	306	CHL	O1D-CGD-CBD	-3.00	120.17	124.72
27	4	316	CHL	O1D-CGD-CBD	-3.00	120.17	124.72
27	B	835	CHL	C1-O2A-CGA	3.00	123.91	116.65
27	3	314	CHL	C4-C3-C5	3.00	120.43	115.23
29	F	303	LUT	C1-C6-C7	-3.00	107.52	115.65
27	4	304	CHL	CBC-CAC-C3C	-3.00	108.58	112.87
27	6	307	CHL	CMB-C2B-C3B	2.99	130.66	124.68
27	A	844	CHL	O2D-CGD-O1D	-2.99	118.02	123.85
27	8	312	CHL	CMB-C2B-C3B	2.99	130.66	124.68
27	6	317	CHL	CGD-CBD-CAD	2.99	120.53	110.85
27	B	821	CHL	O1D-CGD-CBD	-2.99	120.19	124.72
27	4	312	CHL	OBD-CAD-C3D	2.99	132.55	127.89
27	b	310	CHL	CMA-C3A-C4A	-2.99	108.17	114.61
27	6	306	CHL	O2D-CGD-O1D	-2.99	118.03	123.85
27	a	307	CHL	O2A-CGA-CBA	2.99	120.94	111.83
27	K	207	CHL	O1D-CGD-CBD	-2.99	120.20	124.72
27	A	854	CHL	C4-C3-C5	2.98	120.41	115.23
27	B	842	CHL	CMA-C3A-C4A	-2.98	108.18	114.61
27	4	316	CHL	OBD-CAD-C3D	2.98	132.54	127.89
27	a	313	CHL	C1-C2-C3	-2.98	121.32	126.20
27	A	828	CHL	C4-C3-C5	2.98	120.39	115.23
27	B	844	CHL	CMA-C3A-C4A	-2.98	108.20	114.61
27	b	310	CHL	C1B-CHB-C4A	2.97	123.24	121.32
29	J	103	LUT	C1-C6-C5	-2.97	118.57	122.64
27	A	855	CHL	C1-C2-C3	-2.97	121.33	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	818	CHL	C4-C3-C5	2.97	120.39	115.23
27	A	841	CHL	C4-C3-C5	2.97	120.39	115.23
27	5	314	CHL	O1D-CGD-CBD	-2.97	120.22	124.72
27	A	830	CHL	C1-C2-C3	-2.97	121.33	126.20
27	5	314	CHL	O2D-CGD-O1D	-2.97	118.07	123.85
27	8	322	CHL	C1-C2-C3	-2.97	121.96	126.76
27	5	318	CHL	CAA-CBA-CGA	-2.96	104.79	113.21
27	8	326	CHL	O1D-CGD-CBD	-2.96	120.23	124.72
27	3	310	CHL	O2A-CGA-CBA	2.96	120.87	111.83
27	A	858	CHL	CAA-C2A-C3A	-2.96	105.00	113.00
29	b	301	LUT	C35-C15-C14	-2.96	117.46	123.52
27	A	850	CHL	CBC-CAC-C3C	-2.96	108.64	112.87
27	B	811	CHL	CBC-CAC-C3C	-2.96	108.64	112.87
27	A	853	CHL	C4-C3-C5	2.96	120.36	115.23
27	J	106	CHL	O1D-CGD-CBD	-2.96	120.24	124.72
27	A	854	CHL	O2A-CGA-CBA	2.96	120.84	111.83
27	A	822	CHL	O2A-CGA-CBA	2.95	120.84	111.83
27	6	308	CHL	O2D-CGD-O1D	-2.95	118.10	123.85
27	6	307	CHL	CBC-CAC-C3C	-2.95	108.65	112.87
27	3	320	CHL	CMC-C2C-C1C	2.95	130.04	124.73
27	L	303	CHL	C4-C3-C5	2.95	120.35	115.23
27	A	846	CHL	CMB-C2B-C3B	2.95	130.58	124.68
27	8	314	CHL	O2A-CGA-CBA	2.95	120.83	111.83
27	7	318	CHL	C4-C3-C5	2.94	120.34	115.23
27	4	309	CHL	OBD-CAD-C3D	2.94	132.48	127.89
27	L	303	CHL	O2D-CGD-O1D	-2.94	118.12	123.85
27	B	825	CHL	CMC-C2C-C1C	2.94	130.02	124.73
27	B	844	CHL	CMB-C2B-C3B	2.94	130.56	124.68
27	B	811	CHL	C4-C3-C5	2.94	120.33	115.23
29	b	303	LUT	C40-C33-C34	-2.94	118.06	122.82
27	B	827	CHL	C1-C2-C3	-2.94	121.39	126.20
27	B	836	CHL	CMB-C2B-C3B	2.94	130.55	124.68
27	A	848	CHL	C1-C2-C3	-2.94	121.39	126.20
27	4	317	CHL	C1C-CHC-C4B	2.93	126.56	116.07
27	B	817	CHL	O2A-CGA-CBA	2.93	120.78	111.83
26	A	815	CL0	O1D-CGD-CBD	-2.93	120.28	124.72
27	3	318	CHL	O1D-CGD-CBD	-2.93	120.28	124.72
27	A	826	CHL	C4-C3-C5	2.93	120.31	115.23
29	4	302	LUT	C7-C6-C5	-2.93	114.81	121.56
27	5	313	CHL	C1-C2-C3	-2.93	121.40	126.20
27	8	312	CHL	O2D-CGD-O1D	-2.93	118.15	123.85
27	4	312	CHL	O2D-CGD-O1D	-2.93	118.15	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	826	CHL	C1-C2-C3	-2.93	122.03	126.76
27	6	307	CHL	C4C-C3C-C2C	-2.93	101.81	113.37
27	5	316	CHL	O2A-CGA-CBA	2.93	120.76	111.83
27	6	307	CHL	C4-C3-C5	2.93	120.31	115.23
27	A	859	CHL	CBC-CAC-C3C	-2.93	108.69	112.87
27	A	828	CHL	CMB-C2B-C3B	2.92	130.52	124.68
27	A	836	CHL	CMB-C2B-C3B	2.92	130.52	124.68
27	A	817	CHL	O2A-CGA-CBA	2.92	120.73	111.83
27	A	830	CHL	C4-C3-C5	2.92	120.29	115.23
27	7	319	CHL	CGD-CBD-CAD	2.92	120.29	110.85
27	B	836	CHL	O1D-CGD-CBD	-2.92	120.30	124.72
27	4	304	CHL	O2A-CGA-CBA	2.91	120.72	111.83
29	8	303	LUT	C30-C31-C32	-2.91	114.77	123.20
22	5	301	BCR	C27-C26-C25	2.91	126.64	122.70
27	5	318	CHL	CMA-C3A-C4A	-2.91	108.34	114.61
27	4	312	CHL	O1D-CGD-CBD	-2.91	120.31	124.72
27	8	314	CHL	O1D-CGD-CBD	-2.91	120.32	124.72
27	5	309	CHL	O2D-CGD-O1D	-2.90	118.20	123.85
27	3	318	CHL	O2D-CGD-O1D	-2.90	118.20	123.85
27	A	831	CHL	C4-C3-C5	2.90	120.27	115.23
27	3	312	CHL	CBC-CAC-C3C	-2.90	108.72	112.87
27	5	319	CHL	O2D-CGD-O1D	-2.90	118.20	123.85
27	8	314	CHL	O2D-CGD-O1D	-2.90	118.21	123.85
27	b	304	CHL	O2D-CGD-O1D	-2.90	118.21	123.85
27	A	819	CHL	CMC-C2C-C1C	2.90	129.95	124.73
29	8	304	LUT	C10-C11-C12	-2.89	114.81	123.20
27	8	316	CHL	CBC-CAC-C3C	-2.89	108.73	112.87
26	A	815	CL0	CMC-C2C-C1C	2.89	129.94	124.73
27	B	830	CHL	C1-C2-C3	-2.89	121.46	126.20
27	8	326	CHL	CMB-C2B-C3B	2.89	130.46	124.68
27	A	820	CHL	C4-C3-C5	2.89	120.25	115.23
27	B	820	CHL	CBC-CAC-C3C	-2.89	108.74	112.87
27	A	831	CHL	C4D-CHA-CBD	2.89	111.88	108.97
27	A	827	CHL	CMB-C2B-C3B	2.89	130.45	124.68
27	b	313	CHL	O2D-CGD-O1D	-2.89	118.23	123.85
27	8	312	CHL	CMD-C2D-C3D	2.88	130.44	124.68
27	4	318	CHL	O2D-CGD-O1D	-2.88	118.24	123.85
27	8	317	CHL	O2A-CGA-CBA	2.88	120.62	111.83
27	A	820	CHL	O2A-CGA-CBA	2.88	120.62	111.83
27	3	310	CHL	O2D-CGD-O1D	-2.88	118.24	123.85
22	6	301	BCR	C36-C18-C17	-2.88	118.15	122.82
22	6	301	BCR	C19-C18-C17	2.88	123.53	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	821	CHL	C1-C2-C3	-2.88	121.49	126.20
27	B	837	CHL	CMB-C2B-C3B	2.87	130.43	124.68
27	A	824	CHL	CBC-CAC-C3C	-2.87	108.76	112.87
27	8	316	CHL	C4-C3-C5	2.87	120.22	115.23
27	A	820	CHL	C1-C2-C3	-2.87	121.49	126.20
27	6	306	CHL	C1-C2-C3	-2.87	121.49	126.20
27	3	318	CHL	CBC-CAC-C3C	-2.87	108.76	112.87
27	A	857	CHL	CMB-C2B-C3B	2.87	130.42	124.68
27	B	831	CHL	CMA-C3A-C4A	-2.87	108.43	114.61
27	L	303	CHL	CMB-C2B-C3B	2.86	130.41	124.68
27	B	813	CHL	C4-C3-C5	2.86	120.19	115.23
27	7	311	CHL	CMB-C2B-C3B	2.86	130.40	124.68
27	5	313	CHL	CMB-C2B-C3B	2.86	130.40	124.68
29	F	303	LUT	C4-C5-C6	-2.86	114.89	120.76
27	a	309	CHL	CBC-CAC-C3C	-2.86	108.78	112.87
27	B	839	CHL	C1-C2-C3	-2.86	121.52	126.20
27	A	843	CHL	CMC-C2C-C1C	2.86	129.87	124.73
27	a	320	CHL	CBC-CAC-C3C	-2.85	108.79	112.87
27	a	318	CHL	O2A-CGA-CBA	2.85	120.53	111.83
27	A	837	CHL	CMD-C2D-C3D	2.85	130.38	124.68
27	4	305	CHL	O1D-CGD-CBD	-2.85	120.40	124.72
27	A	817	CHL	C1A-CHA-C4D	-2.85	114.22	118.98
27	B	841	CHL	C4-C3-C5	2.85	120.18	115.23
27	6	315	CHL	C1-C2-C3	-2.85	122.15	126.76
27	5	313	CHL	C4C-C3C-C2C	-2.85	102.11	113.37
22	B	802	BCR	C7-C8-C9	-2.85	122.02	126.23
27	a	315	CHL	CMA-C3A-C4A	-2.85	108.47	114.61
27	8	311	CHL	CBC-CAC-C3C	-2.85	108.79	112.87
27	A	827	CHL	C4-C3-C5	2.85	120.17	115.23
22	M	102	BCR	C15-C16-C17	-2.84	117.70	123.52
24	A	812	LHG	O8-C23-C24	2.84	120.51	111.83
27	B	844	CHL	C1-C2-C3	-2.84	121.54	126.20
27	a	316	CHL	OBD-CAD-C3D	2.84	132.32	127.89
27	A	823	CHL	C1-C2-C3	-2.84	121.54	126.20
22	6	301	BCR	C8-C9-C10	2.84	123.48	119.01
27	8	320	CHL	C4-C3-C5	2.84	120.16	115.23
27	A	836	CHL	C4-C3-C5	2.84	120.15	115.23
27	b	309	CHL	O1D-CGD-CBD	-2.84	120.42	124.72
27	8	322	CHL	CMA-C3A-C4A	-2.84	108.50	114.61
27	6	313	CHL	O2A-CGA-CBA	2.83	120.48	111.83
27	5	316	CHL	OMC-CMC-C2C	-2.83	120.20	125.12
27	B	838	CHL	C4-C3-C5	2.83	120.15	115.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	842	CHL	C4-C3-C5	2.83	120.14	115.23
27	5	310	CHL	C4-C3-C5	2.83	120.14	115.23
27	8	320	CHL	CBC-CAC-C3C	-2.83	108.82	112.87
33	7	305	XAT	C20-C13-C14	-2.83	118.23	122.82
27	A	846	CHL	CMC-C2C-C1C	2.83	129.82	124.73
27	7	313	CHL	C4-C3-C5	2.83	120.13	115.23
27	A	842	CHL	O2A-CGA-CBA	2.83	120.45	111.83
27	A	834	CHL	CMB-C2B-C3B	2.82	130.33	124.68
27	4	314	CHL	CMC-C2C-C1C	2.82	129.82	124.73
27	K	204	CHL	O2A-CGA-CBA	2.82	120.44	111.83
27	5	325	CHL	CBC-CAC-C3C	-2.82	108.83	112.87
27	3	319	CHL	O2A-CGA-CBA	2.82	120.44	111.83
27	B	815	CHL	C11-C12-C13	-2.82	106.59	115.97
27	5	310	CHL	CMC-C2C-C1C	2.82	129.81	124.73
27	8	319	CHL	CMB-C2B-C3B	2.82	130.32	124.68
28	7	307	DGD	CDB-CCB-CBB	-2.82	100.11	114.37
27	B	834	CHL	CMB-C2B-C3B	2.82	130.32	124.68
28	B	809	DGD	CDB-CCB-CBB	-2.82	100.12	114.37
27	3	311	CHL	O2A-CGA-CBA	2.82	120.43	111.83
27	B	841	CHL	O2A-CGA-CBA	2.82	120.42	111.83
27	b	317	CHL	O2A-CGA-CBA	2.82	120.42	111.83
27	B	812	CHL	CMB-C2B-C3B	2.82	130.31	124.68
27	B	812	CHL	CMD-C2D-C3D	2.82	130.31	124.68
27	7	322	CHL	O2A-CGA-CBA	2.82	120.42	111.83
30	J	101	LMG	O6-C1-O1	-2.81	103.39	110.04
27	3	316	CHL	C4-C3-C5	2.81	120.11	115.23
27	A	821	CHL	CBC-CAC-C3C	-2.81	108.84	112.87
27	5	318	CHL	C4-C3-C5	2.81	120.11	115.23
27	7	312	CHL	O1D-CGD-CBD	-2.81	120.46	124.72
27	7	322	CHL	C4-C3-C5	2.81	120.11	115.23
27	A	824	CHL	C4-C3-C5	2.81	120.11	115.23
27	B	828	CHL	C1-C2-C3	-2.81	121.59	126.20
27	A	846	CHL	O2A-CGA-CBA	2.81	120.40	111.83
27	A	844	CHL	C4-C3-C5	2.81	120.10	115.23
27	a	318	CHL	CBC-CAC-C3C	-2.81	108.86	112.87
27	6	309	CHL	O2A-CGA-CBA	2.81	120.39	111.83
27	B	833	CHL	C1-O2A-CGA	2.81	123.44	116.65
27	8	316	CHL	CMB-C2B-C3B	2.80	130.29	124.68
27	A	852	CHL	CBC-CAC-C3C	-2.80	108.86	112.87
27	5	315	CHL	O2A-CGA-CBA	2.80	120.38	111.83
27	3	312	CHL	O2A-CGA-CBA	2.80	120.38	111.83
27	7	323	CHL	CMD-C2D-C3D	-2.80	119.08	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	7	305	XAT	C12-C13-C14	2.80	123.42	119.01
27	A	844	CHL	O1D-CGD-CBD	-2.80	120.48	124.72
27	8	314	CHL	OBD-CAD-C3D	2.80	132.26	127.89
22	6	301	BCR	C12-C13-C14	2.80	123.41	119.01
29	5	302	LUT	C4-C5-C6	-2.80	115.01	120.76
27	a	307	CHL	O2D-CGD-O1D	-2.80	118.40	123.85
27	b	311	CHL	O2D-CGD-O1D	-2.80	118.40	123.85
27	4	305	CHL	O2D-CGD-O1D	-2.79	118.42	123.85
27	B	816	CHL	CMA-C3A-C4A	-2.79	108.60	114.61
27	5	313	CHL	O2D-CGD-O1D	-2.79	118.42	123.85
27	7	317	CHL	O1D-CGD-CBD	-2.79	120.49	124.72
27	4	304	CHL	C1-C2-C3	-2.79	121.63	126.20
27	A	833	CHL	C4-C3-C5	2.79	120.07	115.23
27	B	845	CHL	CMB-C2B-C3B	2.79	130.25	124.68
29	5	302	LUT	C18-C5-C4	-2.79	109.30	114.42
27	B	813	CHL	CMA-C3A-C4A	-2.79	108.61	114.61
27	6	318	CHL	OBD-CAD-C3D	2.79	132.24	127.89
29	3	304	LUT	C4-C5-C6	-2.79	115.03	120.76
27	A	856	CHL	O2A-CGA-CBA	2.79	120.33	111.83
27	3	319	CHL	CBC-CAC-C3C	-2.78	108.89	112.87
27	7	319	CHL	O2A-CGA-CBA	2.78	120.32	111.83
27	A	851	CHL	CBC-CAC-C3C	-2.78	108.89	112.87
29	a	302	LUT	C4-C5-C6	-2.78	115.05	120.76
27	3	315	CHL	C1-C2-C3	-2.78	121.64	126.20
27	3	313	CHL	CBC-CAC-C3C	-2.78	108.89	112.87
27	7	319	CHL	O2D-CGD-O1D	-2.78	118.44	123.85
27	A	856	CHL	O2D-CGD-O1D	-2.78	118.44	123.85
27	4	304	CHL	O2D-CGD-O1D	-2.78	118.44	123.85
24	8	305	LHG	O8-C23-C24	2.78	120.31	111.83
27	4	311	CHL	O2A-CGA-CBA	2.78	120.31	111.83
27	A	821	CHL	O2A-CGA-CBA	2.78	120.30	111.83
27	6	316	CHL	OBD-CAD-C3D	2.78	132.22	127.89
27	6	311	CHL	CBC-CAC-C3C	-2.78	108.90	112.87
27	K	207	CHL	CMA-C3A-C4A	-2.78	108.63	114.61
29	7	304	LUT	C4-C5-C6	-2.77	115.06	120.76
27	3	320	CHL	CMB-C2B-C3B	2.77	130.23	124.68
27	B	837	CHL	CMA-C3A-C4A	-2.77	108.64	114.61
27	5	318	CHL	CBC-CAC-C3C	-2.77	108.90	112.87
27	4	306	CHL	O2D-CGD-O1D	-2.77	118.45	123.85
27	B	821	CHL	CMB-C2B-C3B	2.77	130.22	124.68
29	a	302	LUT	C17-C1-C6	-2.77	105.90	110.24
27	A	849	CHL	CMA-C3A-C4A	-2.77	108.64	114.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	b	312	CHL	O2D-CGD-O1D	-2.77	118.46	123.85
27	A	846	CHL	C4C-C3C-C2C	-2.77	102.43	113.37
27	B	832	CHL	C4-C3-C5	2.77	120.03	115.23
27	8	319	CHL	O2A-CGA-CBA	2.77	120.28	111.83
27	4	304	CHL	CMC-C2C-C1C	2.77	129.71	124.73
27	A	848	CHL	CMA-C3A-C4A	-2.77	108.65	114.61
27	B	846	CHL	O2A-CGA-CBA	2.76	120.26	111.83
27	A	859	CHL	C4-C3-C5	2.76	120.03	115.23
27	6	308	CHL	C1C-CHC-C4B	2.76	125.95	116.07
27	A	843	CHL	C1A-CHA-C4D	-2.76	114.37	118.98
27	A	840	CHL	CMB-C2B-C3B	2.76	130.20	124.68
29	3	305	LUT	C10-C11-C12	-2.76	115.20	123.20
22	6	301	BCR	C35-C13-C14	-2.76	118.34	122.82
22	L	302	BCR	C15-C16-C17	-2.76	117.87	123.52
27	b	308	CHL	C4C-CHD-C1D	2.76	125.94	116.07
27	B	843	CHL	O2D-CGD-O1D	-2.76	118.48	123.85
30	7	301	LMG	O6-C1-O1	-2.76	103.53	110.04
27	a	318	CHL	O2D-CGD-O1D	-2.76	118.48	123.85
27	8	323	CHL	O2D-CGD-O1D	-2.76	118.48	123.85
27	B	846	CHL	CMD-C2D-C3D	2.75	130.19	124.68
27	5	319	CHL	OBD-CAD-C3D	2.75	132.19	127.89
27	4	308	CHL	O2A-CGA-CBA	2.75	120.22	111.83
22	3	301	BCR	C11-C10-C9	-2.75	123.42	127.28
27	B	819	CHL	O2A-CGA-CBA	2.75	120.21	111.83
27	A	858	CHL	O2A-CGA-CBA	2.75	120.21	111.83
27	7	315	CHL	CMB-C2B-C3B	2.75	130.17	124.68
27	A	822	CHL	C4-C3-C5	2.75	120.00	115.23
27	B	833	CHL	CBC-CAC-C3C	-2.75	108.94	112.87
27	4	317	CHL	CMD-C2D-C3D	-2.74	119.20	124.68
22	8	302	BCR	C2-C1-C6	2.74	114.43	110.44
27	6	318	CHL	O1D-CGD-CBD	-2.74	120.56	124.72
27	A	820	CHL	CMC-C2C-C1C	2.74	129.67	124.73
27	b	317	CHL	CBC-CAC-C3C	-2.74	108.94	112.87
27	A	831	CHL	C1-C2-C3	-2.74	121.70	126.20
24	7	302	LHG	O8-C23-C24	2.74	120.20	111.83
27	B	815	CHL	C4-C3-C5	2.74	119.99	115.23
27	4	315	CHL	CMA-C3A-C4A	-2.74	108.70	114.61
27	5	316	CHL	CMB-C2B-C3B	2.74	130.16	124.68
27	8	324	CHL	CED-O2D-CGD	2.74	122.13	115.92
27	B	834	CHL	O2A-CGA-CBA	2.74	120.19	111.83
29	6	303	LUT	C1-C6-C7	-2.74	108.22	115.65
27	B	841	CHL	CMA-C3A-C4A	-2.74	108.71	114.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	7	316	CHL	C1-C2-C3	-2.74	121.71	126.20
27	A	848	CHL	O2A-CGA-CBA	2.74	120.18	111.83
27	A	819	CHL	CMB-C2B-C3B	2.74	130.15	124.68
27	5	325	CHL	OBD-CAD-C3D	2.74	132.16	127.89
27	A	817	CHL	C4-C3-C5	2.74	119.98	115.23
27	A	832	CHL	O2A-CGA-CBA	2.74	120.18	111.83
31	a	303	AXT	C3-C4-C5	2.74	118.99	112.18
27	8	313	CHL	CBC-CAC-C3C	-2.74	108.96	112.87
27	8	321	CHL	O2A-CGA-CBA	2.73	120.17	111.83
27	a	315	CHL	CED-O2D-CGD	2.73	122.11	115.92
22	K	203	BCR	C27-C26-C25	2.73	126.40	122.70
22	3	303	BCR	C27-C26-C25	2.73	126.40	122.70
27	8	313	CHL	C1-O2A-CGA	2.73	123.26	116.65
27	4	307	CHL	CMB-C2B-C3B	2.73	130.14	124.68
27	A	846	CHL	C4D-CHA-CBD	2.73	111.71	108.97
27	6	311	CHL	C4-C3-C5	2.73	119.96	115.23
27	A	841	CHL	C1-O2A-CGA	2.72	123.25	116.65
24	b	302	LHG	O8-C23-C24	2.72	120.14	111.83
27	L	303	CHL	O2A-CGA-CBA	2.72	120.14	111.83
27	B	821	CHL	C4-C3-C5	2.72	119.95	115.23
27	4	307	CHL	C1-C2-C3	-2.72	121.74	126.20
27	A	819	CHL	CBC-CAC-C3C	-2.72	108.97	112.87
27	B	820	CHL	C1-C2-C3	-2.72	121.74	126.20
27	6	310	CHL	C4-C3-C5	2.72	119.95	115.23
27	B	826	CHL	O2A-CGA-CBA	2.72	120.13	111.83
27	7	315	CHL	O2D-CGD-O1D	-2.72	117.91	124.08
22	M	102	BCR	C27-C26-C25	2.72	126.38	122.70
27	B	819	CHL	C4-C3-C5	2.72	119.95	115.23
27	b	314	CHL	O2D-CGD-O1D	-2.72	118.55	123.85
29	4	301	LUT	C18-C5-C4	-2.72	109.42	114.42
27	A	818	CHL	C4-C3-C5	2.72	119.95	115.23
27	B	834	CHL	C4-C3-C5	2.72	119.95	115.23
33	7	305	XAT	C40-C33-C34	-2.72	118.41	122.82
27	A	849	CHL	C4-C3-C5	2.72	119.94	115.23
27	A	820	CHL	CMB-C2B-C3B	2.72	130.11	124.68
27	7	324	CHL	O2D-CGD-O1D	-2.72	118.56	123.85
27	B	818	CHL	O2A-CGA-CBA	2.72	120.11	111.83
27	6	315	CHL	CBC-CAC-C3C	-2.72	108.98	112.87
27	B	840	CHL	CMB-C2B-C3B	2.72	130.11	124.68
27	B	833	CHL	CMA-C3A-C4A	-2.72	108.76	114.61
27	K	207	CHL	O2D-CGD-O1D	-2.71	118.56	123.85
27	A	852	CHL	CED-O2D-CGD	2.71	122.07	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	8	301	SQD	O48-C23-C24	2.71	120.11	111.83
27	8	314	CHL	C4-C3-C5	2.71	119.94	115.23
27	B	823	CHL	C4-C3-C5	2.71	119.93	115.23
27	A	838	CHL	O2A-CGA-CBA	2.71	120.10	111.83
27	B	815	CHL	O2A-CGA-CBA	2.71	120.10	111.83
27	B	842	CHL	O2A-CGA-CBA	2.71	120.09	111.83
22	B	805	BCR	C27-C26-C25	2.71	126.36	122.70
27	A	831	CHL	O2A-CGA-CBA	2.71	120.09	111.83
27	A	843	CHL	CAC-C3C-C2C	2.71	132.53	127.56
27	a	307	CHL	CMC-C2C-C1C	2.71	129.60	124.73
27	8	316	CHL	C1-C2-C3	-2.71	121.77	126.20
27	a	311	CHL	O2A-CGA-CBA	2.70	120.08	111.83
22	B	802	BCR	C11-C10-C9	-2.70	123.48	127.28
27	8	325	CHL	CBC-CAC-C3C	-2.70	109.00	112.87
27	A	822	CHL	CMB-C2B-C3B	2.70	130.08	124.68
27	A	832	CHL	CMB-C2B-C3B	2.70	130.08	124.68
22	8	302	BCR	C15-C16-C17	-2.70	118.00	123.52
27	b	316	CHL	O2A-CGA-CBA	2.70	120.06	111.83
27	8	323	CHL	O1D-CGD-CBD	-2.70	120.63	124.72
27	3	319	CHL	C4-C3-C5	2.70	119.91	115.23
27	B	850	CHL	CMA-C3A-C4A	-2.70	108.80	114.61
27	A	850	CHL	C1-C2-C3	-2.69	121.78	126.20
27	7	312	CHL	O2D-CGD-O1D	-2.69	118.61	123.85
24	A	811	LHG	O8-C23-C24	2.69	120.05	111.83
27	A	838	CHL	CMB-C2B-C3B	2.69	130.06	124.68
27	A	852	CHL	CMB-C2B-C3B	2.69	130.06	124.68
29	a	304	LUT	C21-C26-C27	-2.69	109.73	112.83
27	7	314	CHL	O2A-CGA-CBA	2.69	120.03	111.83
27	3	317	CHL	C1-C2-C3	-2.69	121.79	126.20
27	3	314	CHL	C1-C2-C3	-2.68	121.80	126.20
27	B	843	CHL	CMA-C3A-C4A	-2.68	108.83	114.61
27	B	840	CHL	C1-C2-C3	-2.68	121.80	126.20
27	5	323	CHL	O2A-CGA-CBA	2.68	120.01	111.83
27	A	818	CHL	C1-C2-C3	-2.68	121.80	126.20
27	A	819	CHL	CMA-C3A-C4A	-2.68	108.83	114.61
27	F	309	CHL	O2A-CGA-CBA	2.68	120.01	111.83
27	A	840	CHL	C1-C2-C3	-2.68	121.81	126.20
22	5	301	BCR	C11-C10-C9	-2.68	123.52	127.28
27	A	850	CHL	CMD-C2D-C3D	2.68	130.03	124.68
27	A	856	CHL	C4-C3-C5	2.68	119.88	115.23
27	7	314	CHL	CMB-C2B-C3B	2.68	130.03	124.68
22	K	202	BCR	C24-C23-C22	-2.68	122.28	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	3	303	BCR	C2-C1-C6	2.68	114.33	110.44
27	6	319	CHL	CMB-C2B-C3B	2.67	130.03	124.68
27	A	825	CHL	CBC-CAC-C3C	-2.67	109.05	112.87
27	7	323	CHL	O2A-CGA-CBA	2.67	119.99	111.83
22	3	301	BCR	C27-C26-C25	2.67	126.32	122.70
27	B	836	CHL	C1-O2A-CGA	2.67	123.12	116.65
27	B	847	CHL	O2A-CGA-CBA	2.67	119.98	111.83
27	5	316	CHL	CMA-C3A-C4A	-2.67	108.86	114.61
27	A	816	CHL	C4-C3-C5	2.67	119.86	115.23
22	A	803	BCR	C27-C26-C25	2.67	126.31	122.70
26	A	815	CL0	C4C-C3C-C2C	-2.67	102.83	113.37
27	B	831	CHL	C1C-CHC-C4B	2.67	125.62	116.07
27	a	318	CHL	OBD-CAD-C3D	2.67	132.06	127.89
27	B	829	CHL	C1-C2-C3	-2.67	121.83	126.20
27	A	839	CHL	C1-C2-C3	-2.67	121.83	126.20
27	8	326	CHL	CMA-C3A-C4A	-2.67	108.87	114.61
27	3	310	CHL	C1C-CHC-C4B	2.66	125.60	116.07
29	4	302	LUT	C30-C31-C32	-2.66	115.48	123.20
27	6	306	CHL	CMC-C2C-C1C	2.66	129.53	124.73
27	6	311	CHL	CMC-C2C-C1C	2.66	129.53	124.73
27	b	307	CHL	O2A-CGA-CBA	2.66	119.96	111.83
22	B	807	BCR	C27-C26-C25	2.66	126.30	122.70
28	B	809	DGD	O5D-C6D-C5D	-2.66	103.42	109.42
27	B	841	CHL	C1C-CHC-C4B	2.66	125.59	116.07
27	8	320	CHL	C1-C2-C3	-2.66	121.84	126.20
27	3	313	CHL	O2A-CGA-CBA	2.66	119.94	111.83
27	4	320	CHL	C1-C2-C3	-2.66	122.46	126.76
27	A	816	CHL	CMB-C2B-C3B	2.66	130.00	124.68
27	6	318	CHL	O2D-CGD-O1D	-2.66	118.67	123.85
27	J	106	CHL	CMA-C3A-C4A	-2.66	108.88	114.61
27	b	309	CHL	O2D-CGD-O1D	-2.66	118.68	123.85
27	5	311	CHL	CMC-C2C-C1C	2.66	129.51	124.73
27	a	316	CHL	O2A-CGA-CBA	2.66	119.93	111.83
22	8	302	BCR	C27-C26-C25	2.66	126.29	122.70
27	4	311	CHL	CBC-CAC-C3C	-2.65	109.07	112.87
27	A	844	CHL	CBC-CAC-C3C	-2.65	109.07	112.87
27	6	313	CHL	CBC-CAC-C3C	-2.65	109.08	112.87
27	B	822	CHL	O2A-CGA-CBA	2.65	119.92	111.83
27	B	847	CHL	C1C-CHC-C4B	2.65	125.55	116.07
27	b	317	CHL	O1D-CGD-CBD	-2.65	120.71	124.72
27	B	835	CHL	C4-C3-C5	2.65	119.83	115.23
27	A	855	CHL	C4-C3-C5	2.65	119.82	115.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	824	CHL	CMB-C2B-C3B	2.65	129.97	124.68
27	A	849	CHL	O2A-CGA-CBA	2.65	119.91	111.83
27	8	315	CHL	C4-C3-C5	2.65	119.82	115.23
22	3	302	BCR	C7-C8-C9	-2.65	122.32	126.23
27	3	320	CHL	CBC-CAC-C3C	-2.64	109.09	112.87
27	7	317	CHL	C4-C3-C5	2.64	119.82	115.23
27	A	843	CHL	C3C-C4C-NC	2.64	121.11	114.65
27	B	823	CHL	CMA-C3A-C4A	-2.64	108.92	114.61
27	B	824	CHL	O2A-CGA-CBA	2.64	119.89	111.83
27	B	828	CHL	CBC-CAC-C3C	-2.64	109.09	112.87
27	B	812	CHL	CMA-C3A-C4A	-2.64	108.92	114.61
27	F	308	CHL	CMD-C2D-C3D	2.64	129.96	124.68
22	K	203	BCR	C24-C23-C22	-2.64	122.33	126.23
27	4	304	CHL	CMA-C3A-C4A	-2.64	108.93	114.61
27	7	319	CHL	CBC-CAC-C3C	-2.64	109.10	112.87
27	a	311	CHL	CMB-C2B-C3B	2.64	129.95	124.68
27	K	206	CHL	CBC-CAC-C3C	-2.63	109.10	112.87
26	A	815	CL0	C1-O2A-CGA	2.63	123.03	116.65
22	M	102	BCR	C15-C14-C13	-2.63	123.58	127.28
29	3	305	LUT	C1-C6-C7	-2.63	108.52	115.65
27	7	314	CHL	C4-C3-C5	2.63	119.79	115.23
27	B	818	CHL	C1-C2-C3	-2.63	121.89	126.20
27	A	850	CHL	CMA-C3A-C4A	-2.63	108.95	114.61
27	5	323	CHL	C4-C3-C5	2.63	119.79	115.23
27	b	316	CHL	OBD-CAD-C3D	2.63	131.99	127.89
27	7	323	CHL	O2D-CGD-O1D	-2.63	118.73	123.85
27	A	837	CHL	C4-C3-C5	2.63	119.79	115.23
27	A	826	CHL	O2A-CGA-CBA	2.63	119.84	111.83
27	A	819	CHL	C4-C3-C5	2.62	119.78	115.23
27	b	307	CHL	CMA-C3A-C4A	-2.62	108.96	114.61
33	7	305	XAT	C32-C33-C34	2.62	123.14	119.01
27	5	321	CHL	CMA-C3A-C4A	-2.62	108.96	114.61
27	3	320	CHL	C1C-CHC-C4B	2.62	125.46	116.07
27	A	842	CHL	CMD-C2D-C3D	2.62	129.92	124.68
27	B	824	CHL	C4-C3-C5	2.62	119.78	115.23
29	8	304	LUT	C22-C23-C24	2.62	115.08	111.18
27	A	853	CHL	O2A-CGA-CBA	2.62	119.82	111.83
27	B	827	CHL	O2A-CGA-CBA	2.62	119.82	111.83
27	B	820	CHL	CMA-C3A-C4A	-2.62	108.97	114.61
27	7	322	CHL	CBC-CAC-C3C	-2.62	109.12	112.87
27	4	306	CHL	C4-C3-C5	2.62	119.77	115.23
24	B	808	LHG	C11-C10-C9	-2.62	101.13	114.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	a	309	CHL	C1-C2-C3	-2.62	121.91	126.20
27	J	106	CHL	CBC-CAC-C3C	-2.62	109.13	112.87
27	A	822	CHL	C1C-CHC-C4B	2.62	125.43	116.07
27	A	838	CHL	C4-C3-C5	2.62	119.77	115.23
27	B	823	CHL	C1-C2-C3	-2.62	121.91	126.20
27	B	851	CHL	CMC-C2C-C1C	2.62	129.44	124.73
27	8	311	CHL	CMA-C3A-C4A	-2.61	108.98	114.61
22	A	805	BCR	C28-C27-C26	-2.61	109.39	114.06
27	B	851	CHL	C4-C3-C5	2.61	119.77	115.23
27	8	316	CHL	O2A-CGA-CBA	2.61	119.80	111.83
27	B	815	CHL	CMA-C3A-C4A	-2.61	108.98	114.61
27	a	310	CHL	C4-C3-C5	2.61	119.76	115.23
27	A	832	CHL	CMD-C2D-C3D	2.61	129.90	124.68
27	B	820	CHL	O2A-CGA-CBA	2.61	119.78	111.83
27	J	106	CHL	O2D-CGD-O1D	-2.61	118.77	123.85
27	B	811	CHL	CMD-C2D-C3D	2.61	129.89	124.68
27	b	317	CHL	OBD-CAD-C3D	2.60	131.96	127.89
27	7	311	CHL	CBC-CAC-C3C	-2.60	109.14	112.87
27	A	822	CHL	CMC-C2C-C1C	2.60	129.42	124.73
27	6	319	CHL	O1D-CGD-CBD	-2.60	120.78	124.72
24	5	324	LHG	O8-C23-C24	2.60	119.77	111.83
27	3	314	CHL	CBC-CAC-C3C	-2.60	109.15	112.87
27	A	841	CHL	C1C-CHC-C4B	2.60	125.38	116.07
27	5	322	CHL	O2D-CGD-O1D	-2.60	118.78	123.85
27	7	321	CHL	OBD-CAD-C3D	2.60	131.95	127.89
27	3	312	CHL	C4-C3-C5	2.60	119.74	115.23
27	a	310	CHL	CMC-C2C-C1C	2.60	129.41	124.73
27	6	307	CHL	O2A-CGA-CBA	2.60	119.75	111.83
27	8	315	CHL	CMB-C2B-C3B	2.60	129.87	124.68
27	7	322	CHL	C1-O2A-CGA	2.60	122.93	116.65
22	B	804	BCR	C27-C26-C25	2.60	126.21	122.70
27	a	314	CHL	CMA-C3A-C4A	-2.59	109.02	114.61
27	A	829	CHL	O2A-CGA-CBA	2.59	119.74	111.83
27	B	844	CHL	C4-C3-C5	2.59	119.73	115.23
27	6	311	CHL	C1-C2-C3	-2.59	121.95	126.20
27	A	834	CHL	O2A-CGA-CBA	2.59	119.73	111.83
27	7	321	CHL	CMB-C2B-C3B	2.59	129.86	124.68
27	8	323	CHL	O2A-CGA-CBA	2.59	119.73	111.83
27	a	312	CHL	CMA-C3A-C4A	-2.59	109.03	114.61
27	6	308	CHL	C4-C3-C5	2.59	119.72	115.23
27	A	842	CHL	C1C-CHC-C4B	2.59	125.32	116.07
22	A	804	BCR	C15-C14-C13	-2.59	123.65	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	4	313	CHL	O2D-CGD-O1D	-2.59	118.82	123.85
27	A	823	CHL	C4-C3-C5	2.58	119.72	115.23
27	b	310	CHL	CBC-CAC-C3C	-2.58	109.17	112.87
27	B	844	CHL	C1C-CHC-C4B	2.58	125.31	116.07
27	B	826	CHL	CBC-CAC-C3C	-2.58	109.17	112.87
22	B	805	BCR	C15-C16-C17	-2.58	118.23	123.52
27	K	206	CHL	CED-O2D-CGD	2.58	121.77	115.92
22	3	301	BCR	C15-C14-C13	-2.58	123.66	127.28
27	A	824	CHL	C1C-CHC-C4B	2.58	125.30	116.07
27	B	850	CHL	CED-O2D-CGD	2.58	121.77	115.92
27	a	314	CHL	CBC-CAC-C3C	-2.58	109.18	112.87
24	b	302	LHG	C11-C10-C9	-2.58	101.33	114.37
27	A	837	CHL	C1C-CHC-C4B	2.58	125.30	116.07
27	B	842	CHL	C4-C3-C5	2.58	119.70	115.23
27	6	308	CHL	O1D-CGD-CBD	-2.58	120.81	124.72
27	A	854	CHL	CBC-CAC-C3C	-2.58	109.19	112.87
29	4	301	LUT	C22-C23-C24	2.57	115.01	111.18
22	3	303	BCR	C15-C14-C13	-2.57	123.67	127.28
27	A	853	CHL	CBC-CAC-C3C	-2.57	109.19	112.87
27	8	317	CHL	C4-C3-C5	2.57	119.69	115.23
27	B	822	CHL	C1C-CHC-C4B	2.57	125.27	116.07
27	4	309	CHL	O1D-CGD-CBD	-2.57	120.82	124.72
27	B	831	CHL	CED-O2D-CGD	2.57	121.75	115.92
27	8	323	CHL	C4C-C3C-C2C	-2.57	103.22	113.37
27	3	311	CHL	C1-C2-C3	-2.57	121.99	126.20
27	5	314	CHL	CBC-CAC-C3C	-2.57	109.19	112.87
27	A	823	CHL	O2A-CGA-CBA	2.57	119.67	111.83
22	K	202	BCR	C15-C16-C17	-2.57	118.27	123.52
27	B	818	CHL	CMD-C2D-C3D	2.57	129.81	124.68
27	7	312	CHL	C1C-CHC-C4B	2.56	125.24	116.07
27	A	837	CHL	CMA-C3A-C4A	-2.56	109.09	114.61
27	4	307	CHL	O2A-CGA-CBA	2.56	119.65	111.83
27	B	837	CHL	C1-O2A-CGA	2.56	122.86	116.65
27	7	323	CHL	C1C-CHC-C4B	2.56	125.24	116.07
27	a	311	CHL	C4-C3-C2	-2.56	117.04	123.63
27	A	831	CHL	C1A-CHA-C4D	-2.56	114.71	118.98
27	B	834	CHL	C1C-CHC-C4B	2.56	125.24	116.07
27	B	846	CHL	C4-C3-C5	2.56	119.68	115.23
27	K	205	CHL	C1C-CHC-C4B	2.56	125.23	116.07
29	4	301	LUT	C1-C6-C7	-2.56	108.70	115.65
27	4	313	CHL	C4C-C3C-C2C	-2.56	103.26	113.37
22	L	301	BCR	C15-C16-C17	-2.56	118.28	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	3	317	CHL	C1C-CHC-C4B	2.56	125.23	116.07
27	B	848	CHL	C4-C3-C5	2.56	119.67	115.23
27	A	841	CHL	CMB-C2B-C3B	2.56	129.80	124.68
27	3	315	CHL	CBC-CAC-C3C	-2.56	109.21	112.87
27	6	311	CHL	O2A-CGA-CBA	2.56	119.63	111.83
27	A	833	CHL	C1-O2A-CGA	2.55	122.83	116.65
27	8	316	CHL	O2D-CGD-O1D	-2.55	118.88	123.85
27	B	823	CHL	CBC-CAC-C3C	-2.55	109.22	112.87
27	A	837	CHL	C1-C2-C3	-2.55	122.01	126.20
27	B	833	CHL	CMB-C2B-C3B	2.55	129.79	124.68
27	3	308	CHL	CAC-C3C-C4C	2.55	130.59	124.03
27	b	317	CHL	O2D-CGD-O1D	-2.55	118.88	123.85
27	B	822	CHL	C4C-C3C-C2C	-2.55	103.29	113.37
27	b	315	CHL	CMB-C2B-C3B	2.55	129.78	124.68
27	B	816	CHL	CMD-C2D-C3D	2.55	129.78	124.68
27	8	325	CHL	C1C-CHC-C4B	2.55	125.19	116.07
27	A	837	CHL	O2A-CGA-CBA	2.55	119.61	111.83
27	B	829	CHL	C1C-CHC-C4B	2.55	125.19	116.07
27	B	812	CHL	C4C-C3C-C2C	-2.55	103.31	113.37
27	7	314	CHL	C1-C2-C3	-2.55	122.02	126.20
27	A	837	CHL	CMB-C2B-C3B	2.55	129.77	124.68
27	A	820	CHL	C1C-CHC-C4B	2.54	125.17	116.07
27	A	849	CHL	C1C-CHC-C4B	2.54	125.17	116.07
22	B	803	BCR	C27-C26-C25	2.54	126.14	122.70
27	J	106	CHL	C1C-CHC-C4B	2.54	125.17	116.07
27	A	827	CHL	CMC-C2C-C1C	2.54	129.31	124.73
27	B	824	CHL	CMA-C3A-C4A	-2.54	109.13	114.61
27	5	322	CHL	CBC-CAC-C3C	-2.54	109.23	112.87
22	3	302	BCR	C11-C10-C9	-2.54	123.71	127.28
27	3	318	CHL	C1C-CHC-C4B	2.54	125.16	116.07
24	B	808	LHG	O8-C23-C24	2.54	119.58	111.83
27	a	307	CHL	C1C-CHC-C4B	2.54	125.16	116.07
27	B	832	CHL	CMA-C3A-C4A	-2.54	109.14	114.61
27	A	852	CHL	C1-O2A-CGA	2.54	122.80	116.65
27	A	853	CHL	CED-O2D-CGD	2.54	121.67	115.92
27	A	827	CHL	C1C-CHC-C4B	2.54	125.14	116.07
27	a	310	CHL	C1C-CHC-C4B	2.54	125.14	116.07
27	B	825	CHL	CMB-C2B-C3B	2.53	129.75	124.68
27	a	311	CHL	CMA-C3A-C4A	-2.53	109.15	114.61
27	a	317	CHL	CMD-C2D-C3D	2.53	129.75	124.68
24	A	810	LHG	C11-C10-C9	-2.53	101.56	114.37
27	5	313	CHL	CAA-CBA-CGA	-2.53	106.02	113.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	L	303	CHL	CMC-C2C-C1C	2.53	129.29	124.73
27	A	826	CHL	CMB-C2B-C3B	2.53	129.74	124.68
27	6	306	CHL	CBC-CAC-C3C	-2.53	109.25	112.87
27	B	833	CHL	C1C-CHC-C4B	2.53	125.12	116.07
27	B	829	CHL	C4-C3-C5	2.53	119.62	115.23
27	B	821	CHL	CMA-C3A-C4A	-2.53	109.16	114.61
27	6	308	CHL	O2A-CGA-O1A	-2.53	117.30	123.63
27	B	811	CHL	C1-C2-C3	-2.53	122.05	126.20
27	B	817	CHL	C1-C2-C3	-2.53	122.05	126.20
27	B	811	CHL	C1A-CHA-C4D	-2.53	114.76	118.98
27	7	323	CHL	C4C-CHD-C1D	2.53	125.12	116.07
27	b	307	CHL	C1C-CHC-C4B	2.53	125.11	116.07
27	b	306	CHL	CMB-C2B-C3B	2.53	129.74	124.68
27	6	319	CHL	C1C-CHC-C4B	2.53	125.11	116.07
27	4	307	CHL	C1C-CHC-C4B	2.53	125.11	116.07
27	A	831	CHL	C6-C5-C3	-2.53	107.31	113.47
27	A	818	CHL	CMB-C2B-C3B	2.53	129.73	124.68
27	A	823	CHL	C1C-CHC-C4B	2.52	125.10	116.07
26	A	815	CL0	O2A-CGA-CBA	2.52	119.53	111.83
27	A	819	CHL	C1-O2A-CGA	2.52	122.76	116.65
27	b	307	CHL	C1-C2-C3	-2.52	122.06	126.20
27	8	316	CHL	O1D-CGD-CBD	-2.52	120.90	124.72
27	7	321	CHL	C1C-CHC-C4B	2.52	125.09	116.07
27	A	834	CHL	CBC-CAC-C3C	-2.52	109.26	112.87
22	3	301	BCR	C15-C16-C17	-2.52	118.36	123.52
23	A	808	LMT	C1'-O5'-C5'	-2.52	108.80	113.72
27	B	845	CHL	CMC-C2C-C1C	2.52	129.27	124.73
29	8	304	LUT	C36-C21-C26	2.52	113.36	109.55
27	A	838	CHL	C1C-CHC-C4B	2.52	125.09	116.07
27	A	858	CHL	C1C-CHC-C4B	2.52	125.09	116.07
27	A	835	CHL	O2A-CGA-CBA	2.52	119.52	111.83
27	B	812	CHL	CAC-C3C-C4C	2.52	130.50	124.03
27	B	835	CHL	CMB-C2B-C3B	2.52	129.72	124.68
27	B	817	CHL	CMA-C3A-C4A	-2.52	109.18	114.61
27	L	304	CHL	CMB-C2B-C3B	2.52	129.72	124.68
27	6	312	CHL	CMB-C2B-C3B	2.52	129.71	124.68
27	5	313	CHL	CMC-C2C-C1C	2.52	129.26	124.73
27	B	830	CHL	O2A-CGA-CBA	2.52	119.51	111.83
27	6	313	CHL	CMA-C3A-C4A	-2.52	109.19	114.61
27	A	827	CHL	C1-O2A-CGA	2.52	122.74	116.65
24	A	812	LHG	C11-C10-C9	-2.52	101.65	114.37
27	a	308	CHL	CED-O2D-CGD	2.51	121.62	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	828	CHL	C1C-CHC-C4B	2.51	125.07	116.07
27	6	315	CHL	CMA-C3A-C4A	-2.51	109.19	114.61
27	4	316	CHL	O2D-CGD-O1D	-2.51	118.95	123.85
27	3	312	CHL	C1-C2-C3	-2.51	122.08	126.20
27	4	306	CHL	O2A-CGA-CBA	2.51	119.50	111.83
27	4	308	CHL	CMC-C2C-C1C	2.51	129.25	124.73
27	6	310	CHL	O2A-CGA-CBA	2.51	119.49	111.83
27	K	204	CHL	CMC-C2C-C1C	2.51	129.25	124.73
27	A	818	CHL	O2A-CGA-CBA	2.51	119.49	111.83
27	A	847	CHL	CMA-C3A-C4A	-2.51	109.20	114.61
27	8	313	CHL	O2A-CGA-CBA	2.51	119.49	111.83
27	8	315	CHL	O2A-CGA-CBA	2.51	119.49	111.83
27	7	317	CHL	C1-C2-C3	-2.51	122.08	126.20
27	6	305	CHL	CMA-C3A-C4A	-2.51	109.20	114.61
29	7	304	LUT	C18-C5-C4	-2.51	109.81	114.42
27	B	841	CHL	CMD-C2D-C3D	2.51	129.70	124.68
27	8	315	CHL	CMA-C3A-C4A	-2.51	109.21	114.61
27	8	318	CHL	CMA-C3A-C4A	-2.51	109.21	114.61
27	7	316	CHL	CMA-C3A-C4A	-2.51	109.21	114.61
27	8	320	CHL	CMA-C3A-C4A	-2.51	109.21	114.61
27	4	315	CHL	O2A-CGA-CBA	2.51	119.48	111.83
27	A	845	CHL	CMA-C3A-C4A	-2.51	109.21	114.61
24	7	306	LHG	O8-C23-C24	2.51	119.47	111.83
27	b	313	CHL	CMD-C2D-C3D	2.51	129.69	124.68
22	K	202	BCR	C15-C14-C13	-2.50	123.77	127.28
27	A	846	CHL	CMA-C3A-C4A	-2.50	109.22	114.61
27	6	310	CHL	C1-C2-C3	-2.50	122.09	126.20
27	L	304	CHL	CED-O2D-CGD	2.50	121.59	115.92
27	B	841	CHL	C4C-C3C-C2C	-2.50	103.48	113.37
27	A	819	CHL	C1C-CHC-C4B	2.50	125.02	116.07
27	A	816	CHL	O2A-CGA-CBA	2.50	119.46	111.83
27	a	310	CHL	O2A-CGA-CBA	2.50	119.46	111.83
27	A	830	CHL	C1C-CHC-C4B	2.50	125.01	116.07
27	3	316	CHL	CED-O2D-CGD	2.50	121.58	115.92
27	A	823	CHL	C6-C5-C3	-2.50	107.38	113.47
27	a	309	CHL	C4-C3-C5	2.50	119.56	115.23
27	B	822	CHL	C4-C3-C5	2.50	119.56	115.23
27	A	859	CHL	CMB-C2B-C3B	2.49	129.67	124.68
27	A	854	CHL	CMA-C3A-C4A	-2.49	109.24	114.61
27	5	309	CHL	CBC-CAC-C3C	-2.49	109.30	112.87
27	5	312	CHL	CBC-CAC-C3C	-2.49	109.30	112.87
27	4	307	CHL	CMD-C2D-C3D	2.49	129.66	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	8	302	BCR	C15-C14-C13	-2.49	123.78	127.28
27	4	317	CHL	O1D-CGD-CBD	-2.49	120.94	124.72
27	6	311	CHL	CMB-C2B-C3B	2.49	129.66	124.68
27	7	317	CHL	CMD-C2D-C3D	2.49	129.66	124.68
34	8	301	SQD	O7-S-C6	2.49	110.47	106.76
27	A	827	CHL	O2A-CGA-CBA	2.49	119.43	111.83
27	8	321	CHL	C4-C3-C5	2.49	119.55	115.23
27	B	850	CHL	C1C-CHC-C4B	2.49	124.97	116.07
27	A	828	CHL	C4C-C3C-C2C	-2.49	103.54	113.37
22	A	803	BCR	C24-C23-C22	-2.49	122.55	126.23
27	8	326	CHL	CMD-C2D-C3D	2.49	129.66	124.68
27	4	308	CHL	O2D-CGD-O1D	-2.49	119.00	123.85
27	B	821	CHL	O2A-CGA-CBA	2.49	119.42	111.83
27	a	313	CHL	O2A-CGA-CBA	2.49	119.42	111.83
27	B	829	CHL	O2A-CGA-CBA	2.49	119.42	111.83
27	B	827	CHL	CMC-C2C-C1C	2.49	129.21	124.73
27	A	850	CHL	O2A-CGA-CBA	2.49	119.42	111.83
27	B	844	CHL	O2A-CGA-CBA	2.49	119.42	111.83
27	A	855	CHL	CED-O2D-CGD	2.49	121.56	115.92
27	8	316	CHL	CMA-C3A-C4A	-2.49	109.26	114.61
27	5	308	CHL	CMD-C2D-C3D	2.49	129.65	124.68
22	A	807	BCR	C27-C26-C25	2.49	126.06	122.70
27	4	308	CHL	CMA-C3A-C4A	-2.48	109.26	114.61
29	8	303	LUT	C35-C15-C14	-2.48	118.44	123.52
27	A	839	CHL	CED-O2D-CGD	2.48	121.55	115.92
27	B	836	CHL	C4-C3-C5	2.48	119.54	115.23
27	A	827	CHL	CMA-C3A-C4A	-2.48	109.26	114.61
27	A	850	CHL	CMB-C2B-C3B	2.48	129.64	124.68
27	B	834	CHL	C4C-C3C-C2C	-2.48	103.57	113.37
34	8	301	SQD	O8-S-C6	2.48	110.76	105.97
27	B	835	CHL	CMD-C2D-C3D	2.48	129.64	124.68
27	a	315	CHL	C1C-CHC-C4B	2.48	124.94	116.07
22	L	302	BCR	C15-C14-C13	-2.48	123.80	127.28
27	B	812	CHL	C4-C3-C5	2.48	119.53	115.23
27	A	854	CHL	CMD-C2D-C3D	2.48	129.64	124.68
27	b	308	CHL	C4C-C3C-C2C	-2.48	103.58	113.37
27	8	315	CHL	C1-C2-C3	-2.48	122.14	126.20
27	7	324	CHL	C1C-CHC-C4B	2.48	124.94	116.07
27	6	311	CHL	CED-O2D-CGD	2.48	121.54	115.92
27	8	324	CHL	CBC-CAC-C3C	-2.48	109.33	112.87
27	4	311	CHL	CMA-C3A-C4A	-2.48	109.27	114.61
27	8	313	CHL	CMC-C2C-C1C	2.48	129.19	124.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	838	CHL	CMB-C2B-C3B	2.48	129.63	124.68
27	A	859	CHL	C1-C2-C3	-2.48	122.14	126.20
27	A	842	CHL	O1D-CGD-CBD	-2.48	120.97	124.72
27	L	303	CHL	CMA-C3A-C4A	-2.47	109.28	114.61
27	B	846	CHL	CMA-C3A-C4A	-2.47	109.28	114.61
29	5	302	LUT	C17-C1-C6	-2.47	106.36	110.24
27	6	316	CHL	C1C-CHC-C4B	2.47	124.92	116.07
27	3	321	CHL	CBC-CAC-C3C	-2.47	109.33	112.87
27	A	838	CHL	C1-C2-C3	-2.47	122.14	126.20
27	a	310	CHL	C1-C2-C3	-2.47	122.15	126.20
27	A	855	CHL	C1C-CHC-C4B	2.47	124.91	116.07
27	b	315	CHL	C4-C3-C5	2.47	119.52	115.23
27	4	317	CHL	C4C-CHD-C1D	2.47	124.91	116.07
27	A	857	CHL	CMD-C2D-C3D	2.47	129.62	124.68
22	A	804	BCR	C24-C23-C22	-2.47	122.58	126.23
27	A	824	CHL	O2A-CGA-CBA	2.47	119.36	111.83
27	a	309	CHL	O2A-CGA-CBA	2.47	119.36	111.83
27	5	320	CHL	C1C-CHC-C4B	2.47	124.90	116.07
27	7	323	CHL	C4-C3-C5	2.47	119.51	115.23
27	6	309	CHL	CMA-C3A-C4A	-2.47	109.30	114.61
27	B	825	CHL	C4-C3-C5	2.47	119.51	115.23
27	b	308	CHL	O2A-CGA-CBA	2.47	121.46	112.14
27	A	825	CHL	CMB-C2B-C3B	2.47	129.61	124.68
27	B	819	CHL	C1C-CHC-C4B	2.47	124.89	116.07
22	5	301	BCR	C24-C23-C22	-2.46	122.59	126.23
27	4	317	CHL	C4D-ND-C1D	2.46	107.09	105.22
27	B	835	CHL	C1C-CHC-C4B	2.46	124.89	116.07
27	a	315	CHL	C4-C3-C5	2.46	119.50	115.23
27	8	317	CHL	CMD-C2D-C3D	2.46	129.60	124.68
27	A	835	CHL	CMA-C3A-C4A	-2.46	109.31	114.61
27	5	313	CHL	O1D-CGD-CBD	-2.46	120.99	124.72
27	B	824	CHL	CMB-C2B-C3B	2.46	129.60	124.68
27	5	318	CHL	C1C-CHC-C4B	2.46	124.88	116.07
27	6	310	CHL	CMC-C2C-C1C	2.46	129.16	124.73
27	5	319	CHL	CMA-C3A-C4A	-2.46	109.31	114.61
27	A	856	CHL	C6-C5-C3	-2.46	107.48	113.47
27	b	315	CHL	C1C-CHC-C4B	2.46	124.86	116.07
27	4	312	CHL	CBC-CAC-C3C	-2.46	109.35	112.87
27	6	307	CHL	CMC-C2C-C1C	2.46	129.16	124.73
29	8	304	LUT	C12-C13-C14	-2.46	115.14	119.01
27	A	847	CHL	CBC-CAC-C3C	-2.46	109.36	112.87
27	B	813	CHL	C1-C2-C3	-2.46	122.17	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	K	207	CHL	C1C-CHC-C4B	2.46	124.86	116.07
27	B	821	CHL	CMD-C2D-C3D	2.46	129.59	124.68
27	8	315	CHL	C1C-CHC-C4B	2.46	124.85	116.07
24	A	810	LHG	C20-C19-C18	-2.45	101.96	114.37
27	A	846	CHL	C1A-CHA-C4D	-2.45	114.89	118.98
27	7	320	CHL	CAA-CBA-CGA	-2.45	106.24	113.21
27	a	313	CHL	CMB-C2B-C3B	2.45	129.59	124.68
27	A	843	CHL	C16-C17-C18	-2.45	104.99	115.94
27	B	842	CHL	CMC-C2C-C1C	2.45	129.15	124.73
27	8	321	CHL	OB D-CAD-C3D	2.45	131.72	127.89
27	3	312	CHL	CMA-C3A-C4A	-2.45	109.33	114.61
27	A	843	CHL	O2D-CGD-O1D	-2.45	119.08	123.85
27	3	308	CHL	C4-C3-C5	2.45	119.48	115.23
27	A	853	CHL	C1C-CHC-C4B	2.45	124.84	116.07
27	B	814	CHL	C1C-CHC-C4B	2.45	124.84	116.07
22	3	303	BCR	C24-C23-C22	-2.45	122.61	126.23
22	A	804	BCR	C27-C26-C25	2.45	126.02	122.70
27	A	855	CHL	CMD-C2D-C3D	2.45	129.58	124.68
27	7	314	CHL	C1C-CHC-C4B	2.45	124.83	116.07
27	b	310	CHL	C1C-CHC-C4B	2.45	124.83	116.07
27	B	846	CHL	CBC-CAC-C3C	-2.45	109.37	112.87
27	5	307	CHL	CBC-CAC-C3C	-2.45	109.37	112.87
27	A	829	CHL	CMB-C2B-C3B	2.45	129.57	124.68
27	B	824	CHL	C1C-CHC-C4B	2.45	124.82	116.07
27	B	822	CHL	CMB-C2B-C3B	2.45	129.57	124.68
27	B	846	CHL	CED-O2D-CGD	2.45	121.46	115.92
27	B	811	CHL	CMA-C3A-C4A	-2.44	109.34	114.61
22	3	301	BCR	C2-C1-C6	2.44	113.99	110.44
27	A	829	CHL	CBC-CAC-C3C	-2.44	109.37	112.87
27	6	315	CHL	CED-O2D-CGD	2.44	121.46	115.92
27	3	311	CHL	C4-C3-C5	2.44	119.47	115.23
27	A	843	CHL	CAA-CBA-CGA	-2.44	106.27	113.21
22	B	802	BCR	C24-C23-C22	-2.44	122.62	126.23
27	7	311	CHL	CMD-C2D-C3D	2.44	129.56	124.68
22	K	203	BCR	C3-C4-C5	-2.44	109.70	114.06
29	4	301	LUT	C36-C21-C26	2.44	113.24	109.55
27	4	306	CHL	CBC-CAC-C3C	-2.44	109.38	112.87
27	8	319	CHL	C1C-CHC-C4B	2.44	124.81	116.07
27	8	316	CHL	C1C-CHC-C4B	2.44	124.80	116.07
27	B	851	CHL	CMB-C2B-C3B	2.44	129.56	124.68
27	A	820	CHL	CAC-C3C-C4C	2.44	130.30	124.03
27	6	306	CHL	C1C-CHC-C4B	2.44	124.79	116.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	820	CHL	CMB-C2B-C3B	2.44	129.56	124.68
27	B	829	CHL	CMD-C2D-C3D	2.44	129.56	124.68
27	3	308	CHL	C1C-CHC-C4B	2.44	124.79	116.07
27	5	325	CHL	CED-O2D-CGD	2.44	121.44	115.92
27	A	828	CHL	O2A-CGA-CBA	2.44	119.27	111.83
27	A	828	CHL	C1-C2-C3	-2.44	122.20	126.20
27	a	317	CHL	CMB-C2B-C3B	2.44	129.55	124.68
27	7	311	CHL	CMA-C3A-C4A	-2.44	109.36	114.61
27	B	816	CHL	O2A-CGA-CBA	2.44	119.27	111.83
29	5	302	LUT	C1-C6-C7	-2.44	109.04	115.65
27	3	321	CHL	CMD-C2D-C3D	2.44	129.55	124.68
27	3	310	CHL	C4-C3-C5	2.44	119.46	115.23
27	A	825	CHL	C1C-CHC-C4B	2.44	124.78	116.07
22	L	302	BCR	C27-C26-C25	2.44	126.00	122.70
27	A	830	CHL	CBC-CAC-C3C	-2.44	109.39	112.87
27	a	309	CHL	CMC-C2C-C1C	2.44	129.12	124.73
27	b	315	CHL	CMD-C2D-C3D	2.43	129.55	124.68
27	A	836	CHL	C4C-C3C-C2C	-2.43	103.76	113.37
27	B	825	CHL	O2A-CGA-CBA	2.43	119.26	111.83
27	8	319	CHL	C1-C2-C3	-2.43	122.21	126.20
27	8	313	CHL	CMD-C2D-C3D	2.43	129.54	124.68
27	5	312	CHL	CMA-C3A-C4A	-2.43	109.37	114.61
27	B	848	CHL	C1-C2-C3	-2.43	122.21	126.20
27	4	307	CHL	C4-C3-C5	2.43	119.45	115.23
24	7	306	LHG	C11-C10-C9	-2.43	102.08	114.37
27	A	848	CHL	CBC-CAC-C3C	-2.43	109.39	112.87
27	4	311	CHL	C1C-CHC-C4B	2.43	124.77	116.07
27	7	317	CHL	CMB-C2B-C3B	2.43	129.54	124.68
27	B	837	CHL	O2A-CGA-CBA	2.43	119.24	111.83
27	5	307	CHL	CMA-C3A-C4A	-2.43	109.38	114.61
27	8	321	CHL	C1-C2-C3	-2.43	122.22	126.20
27	4	320	CHL	C1C-CHC-C4B	2.43	124.76	116.07
27	B	850	CHL	C4C-C3C-C2C	-2.43	103.78	113.37
27	8	312	CHL	C4C-C3C-C2C	-2.43	103.78	113.37
27	3	315	CHL	O2A-CGA-CBA	2.43	119.23	111.83
27	6	311	CHL	C1C-CHC-C4B	2.43	124.75	116.07
27	b	306	CHL	C1C-CHC-C4B	2.43	124.75	116.07
27	B	823	CHL	C1C-CHC-C4B	2.43	124.75	116.07
27	7	317	CHL	C1C-CHC-C4B	2.43	124.75	116.07
27	F	309	CHL	C1C-CHC-C4B	2.42	124.74	116.07
27	4	305	CHL	C1C-CHC-C4B	2.42	124.74	116.07
27	B	831	CHL	CMB-C2B-C3B	2.42	129.53	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	859	CHL	O2A-CGA-CBA	2.42	119.23	111.83
27	A	839	CHL	C4-C3-C5	2.42	119.43	115.23
24	A	811	LHG	C11-C10-C9	-2.42	102.12	114.37
27	B	823	CHL	O2A-CGA-CBA	2.42	119.22	111.83
27	A	823	CHL	CBC-CAC-C3C	-2.42	109.41	112.87
27	4	307	CHL	CBC-CAC-C3C	-2.42	109.41	112.87
24	A	810	LHG	O8-C23-C24	2.42	119.22	111.83
27	A	816	CHL	CMA-C3A-C4A	-2.42	109.39	114.61
27	a	317	CHL	O2A-CGA-CBA	2.42	119.22	111.83
27	3	314	CHL	CMC-C2C-C1C	2.42	129.09	124.73
22	8	302	BCR	C11-C10-C9	-2.42	123.89	127.28
27	B	816	CHL	C1-C2-C3	-2.42	122.24	126.20
27	L	303	CHL	C11-C10-C8	-2.42	107.93	115.97
27	B	847	CHL	C4-C3-C5	2.42	119.42	115.23
27	a	313	CHL	CED-O2D-CGD	2.42	121.40	115.92
27	A	839	CHL	CMA-C3A-C4A	-2.42	109.40	114.61
27	4	319	CHL	CMB-C2B-C3B	2.42	129.51	124.68
27	7	313	CHL	CBC-CAC-C3C	-2.42	109.41	112.87
27	B	851	CHL	C4C-C3C-C2C	-2.42	103.83	113.37
27	B	813	CHL	CMB-C2B-C3B	2.42	129.51	124.68
27	8	318	CHL	C1C-CHC-C4B	2.42	124.71	116.07
27	B	849	CHL	CBC-CAC-C3C	-2.42	109.42	112.87
27	A	841	CHL	C1-C2-C3	-2.42	122.24	126.20
27	B	836	CHL	C1C-CHC-C4B	2.42	124.71	116.07
27	B	817	CHL	CBC-CAC-C3C	-2.41	109.42	112.87
22	5	301	BCR	C2-C1-C6	2.41	113.94	110.44
27	B	849	CHL	CMB-C2B-C3B	2.41	129.50	124.68
27	B	836	CHL	CMA-C3A-C4A	-2.41	109.41	114.61
27	B	815	CHL	C1C-CHC-C4B	2.41	124.70	116.07
27	B	826	CHL	CMD-C2D-C3D	2.41	129.50	124.68
27	4	313	CHL	CBC-CAC-C3C	-2.41	109.42	112.87
27	8	317	CHL	C1C-CHC-C4B	2.41	124.69	116.07
27	6	315	CHL	O2A-CGA-CBA	2.41	119.19	111.83
27	8	314	CHL	C1C-CHC-C4B	2.41	124.69	116.07
27	5	321	CHL	C1A-CHA-C4D	-2.41	114.96	118.98
27	4	314	CHL	C1C-CHC-C4B	2.41	124.69	116.07
27	4	306	CHL	CMC-C2C-C1C	2.41	129.07	124.73
27	8	320	CHL	C1C-CHC-C4B	2.41	124.69	116.07
22	B	804	BCR	C24-C23-C22	-2.41	122.67	126.23
27	B	838	CHL	CMA-C3A-C4A	-2.41	109.42	114.61
27	B	840	CHL	C4-C3-C5	2.41	119.41	115.23
27	7	324	CHL	C4C-C3C-C2C	-2.41	103.86	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	7	324	CHL	CMA-C3A-C4A	-2.41	109.42	114.61
27	8	315	CHL	CMD-C2D-C3D	2.41	129.49	124.68
24	8	305	LHG	C11-C10-C9	-2.41	102.20	114.37
27	5	317	CHL	CMB-C2B-C3B	2.41	129.49	124.68
27	8	325	CHL	C4-C3-C5	2.41	119.41	115.23
27	A	836	CHL	O2A-CGA-CBA	2.41	119.17	111.83
27	4	304	CHL	C4-C3-C5	2.41	119.41	115.23
27	A	845	CHL	C4C-C3C-C2C	-2.41	103.87	113.37
30	a	301	LMG	C38-C37-C36	-2.40	102.22	114.37
27	3	315	CHL	C1C-CHC-C4B	2.40	124.67	116.07
27	5	309	CHL	C1-O2A-CGA	2.40	122.47	116.65
27	5	321	CHL	CBC-CAC-C3C	-2.40	109.43	112.87
29	6	302	LUT	C22-C23-C24	2.40	114.75	111.18
27	B	835	CHL	CMC-C2C-C1C	2.40	129.06	124.73
27	a	320	CHL	C1C-CHC-C4B	2.40	124.67	116.07
27	6	319	CHL	CBC-CAC-C3C	-2.40	109.43	112.87
27	A	820	CHL	C4C-C3C-C2C	-2.40	103.88	113.37
27	B	840	CHL	C1C-CHC-C4B	2.40	124.66	116.07
27	B	849	CHL	O2A-CGA-CBA	2.40	119.16	111.83
27	A	843	CHL	C6-C5-C3	-2.40	107.62	113.47
27	8	312	CHL	O2A-CGA-O1A	-2.40	117.62	123.63
27	a	315	CHL	CBC-CAC-C3C	-2.40	109.44	112.87
27	5	308	CHL	C4C-C3C-C2C	-2.40	103.89	113.37
27	3	316	CHL	OBD-CAD-C3D	2.40	131.63	127.89
27	7	313	CHL	C1C-CHC-C4B	2.40	124.65	116.07
27	3	316	CHL	O2A-CGA-O1A	-2.40	117.63	123.63
27	8	321	CHL	CMD-C2D-C3D	2.40	129.47	124.68
27	B	819	CHL	CMA-C3A-C4A	-2.40	109.44	114.61
27	3	318	CHL	O2A-CGA-CBA	2.40	119.14	111.83
27	F	309	CHL	CMC-C2C-C1C	2.40	129.05	124.73
27	A	824	CHL	C4C-C3C-C2C	-2.40	103.91	113.37
27	3	310	CHL	CMB-C2B-C3B	2.40	129.47	124.68
27	A	823	CHL	CMB-C2B-C3B	2.40	129.47	124.68
27	B	830	CHL	C1C-CHC-C4B	2.39	124.64	116.07
27	3	314	CHL	C6-C5-C3	-2.39	107.64	113.47
27	4	320	CHL	CED-O2D-CGD	2.39	121.35	115.92
27	A	856	CHL	CMB-C2B-C3B	2.39	129.47	124.68
27	7	317	CHL	C1-O2A-CGA	2.39	122.44	116.65
27	4	306	CHL	CMA-C3A-C4A	-2.39	109.45	114.61
27	B	843	CHL	CBC-CAC-C3C	-2.39	109.45	112.87
27	B	836	CHL	CMD-C2D-C3D	2.39	129.46	124.68
27	F	308	CHL	C1C-CHC-C4B	2.39	124.63	116.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	821	CHL	CMC-C2C-C1C	2.39	129.04	124.73
22	B	806	BCR	C31-C1-C6	2.39	113.99	110.24
27	A	816	CHL	C4C-C3C-C2C	-2.39	103.93	113.37
27	A	858	CHL	C4C-C3C-C2C	-2.39	103.93	113.37
27	A	859	CHL	C6-C5-C3	-2.39	107.65	113.47
27	B	816	CHL	C4-C3-C5	2.39	119.38	115.23
27	7	316	CHL	C1C-CHC-C4B	2.39	124.62	116.07
27	B	811	CHL	C4C-C3C-C2C	-2.39	103.94	113.37
27	5	322	CHL	OBD-CAD-C3D	2.39	131.62	127.89
27	B	817	CHL	C4-C3-C5	2.39	119.37	115.23
27	6	305	CHL	CMC-C2C-C1C	2.39	129.03	124.73
27	b	308	CHL	O2D-CGD-O1D	-2.39	119.20	123.85
27	A	838	CHL	C4C-C3C-C2C	-2.39	103.94	113.37
27	B	814	CHL	C4C-C3C-C2C	-2.39	103.94	113.37
22	B	803	BCR	C15-C16-C17	-2.39	118.64	123.52
27	4	315	CHL	C1C-CHC-C4B	2.39	124.60	116.07
27	7	315	CHL	C1C-CHC-C4B	2.39	124.60	116.07
27	A	858	CHL	C4-C3-C2	-2.39	117.50	123.63
27	B	848	CHL	C1C-CHC-C4B	2.38	124.60	116.07
27	A	825	CHL	CMD-C2D-C3D	2.38	129.45	124.68
27	B	845	CHL	CMD-C2D-C3D	2.38	129.45	124.68
27	a	313	CHL	CMA-C3A-C4A	-2.38	109.47	114.61
24	A	810	LHG	C18-C17-C16	-2.38	102.32	114.37
27	b	306	CHL	C4C-C3C-C2C	-2.38	103.96	113.37
28	B	809	DGD	C3G-C2G-C1G	-2.38	106.23	111.78
27	7	318	CHL	CMC-C2C-C1C	2.38	129.02	124.73
27	3	320	CHL	CMD-C2D-C3D	2.38	129.44	124.68
27	B	841	CHL	CBC-CAC-C3C	-2.38	109.46	112.87
27	6	320	CHL	CMA-C3A-C4A	-2.38	109.48	114.61
27	7	314	CHL	C4C-C3C-C2C	-2.38	103.96	113.37
27	B	824	CHL	C4C-C3C-C2C	-2.38	103.97	113.37
27	A	824	CHL	CMA-C3A-C4A	-2.38	109.48	114.61
27	B	846	CHL	CMC-C2C-C1C	2.38	129.02	124.73
27	4	305	CHL	C4C-C3C-C2C	-2.38	103.97	113.37
27	A	856	CHL	C1C-CHC-C4B	2.38	124.58	116.07
22	A	806	BCR	C11-C10-C9	-2.38	123.94	127.28
27	B	828	CHL	C1C-CHC-C4B	2.38	124.58	116.07
22	3	302	BCR	C15-C16-C17	-2.38	118.65	123.52
27	5	313	CHL	C6-C7-C8	-2.38	108.06	115.97
27	B	849	CHL	C1C-CHC-C4B	2.38	124.58	116.07
27	8	312	CHL	C1C-CHC-C4B	2.38	124.58	116.07
27	8	317	CHL	C4C-C3C-C2C	-2.38	103.98	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	5	312	CHL	O2A-CGA-CBA	2.38	119.08	111.83
24	8	305	LHG	C20-C19-C18	-2.38	102.35	114.37
27	A	847	CHL	C1C-CHC-C4B	2.38	124.57	116.07
27	5	317	CHL	O2A-CGA-CBA	2.38	121.11	112.14
27	b	315	CHL	C4C-C3C-C2C	-2.37	103.99	113.37
27	B	831	CHL	CMD-C2D-C3D	2.37	129.43	124.68
27	B	843	CHL	CMD-C2D-C3D	2.37	129.43	124.68
27	A	830	CHL	C4C-C3C-C2C	-2.37	104.00	113.37
27	7	311	CHL	O2A-CGA-O1A	-2.37	117.69	123.63
27	6	305	CHL	CMB-C2B-C3B	2.37	129.43	124.68
27	7	316	CHL	CMD-C2D-C3D	2.37	129.43	124.68
27	a	312	CHL	CED-O2D-CGD	2.37	121.30	115.92
27	a	314	CHL	C1C-CHC-C4B	2.37	124.56	116.07
27	B	816	CHL	CED-O2D-CGD	2.37	121.30	115.92
27	B	813	CHL	C1C-CHC-C4B	2.37	124.56	116.07
22	M	102	BCR	C24-C23-C22	-2.37	122.73	126.23
27	3	320	CHL	C4C-C3C-C2C	-2.37	104.00	113.37
22	8	302	BCR	C24-C23-C22	-2.37	122.73	126.23
27	A	857	CHL	C4C-C3C-C2C	-2.37	104.01	113.37
27	B	830	CHL	C4-C3-C5	2.37	119.34	115.23
27	A	839	CHL	C1C-CHC-C4B	2.37	124.55	116.07
27	A	824	CHL	CMD-C2D-C3D	2.37	129.42	124.68
27	B	826	CHL	CMC-C2C-C1C	2.37	129.00	124.73
27	b	308	CHL	CBC-CAC-C3C	-2.37	109.48	112.87
27	B	849	CHL	C4-C3-C5	2.37	119.34	115.23
27	B	827	CHL	CMB-C2B-C3B	2.37	129.41	124.68
27	a	311	CHL	C1C-CHC-C4B	2.37	124.54	116.07
22	F	301	BCR	C27-C26-C25	2.37	125.90	122.70
27	8	311	CHL	C1C-CHC-C4B	2.37	124.54	116.07
24	7	302	LHG	C20-C19-C18	-2.37	102.41	114.37
27	7	311	CHL	CMC-C2C-C1C	2.37	128.99	124.73
27	A	844	CHL	CMD-C2D-C3D	2.37	129.41	124.68
27	6	306	CHL	O2A-CGA-O1A	-2.37	117.71	123.63
27	A	857	CHL	CED-O2D-CGD	2.37	121.28	115.92
27	B	830	CHL	C4C-C3C-C2C	-2.37	104.03	113.37
27	5	309	CHL	CMA-C3A-C4A	-2.37	109.51	114.61
27	B	820	CHL	C1C-CHC-C4B	2.37	124.53	116.07
27	A	834	CHL	CMD-C2D-C3D	2.36	129.41	124.68
27	B	835	CHL	C4C-C3C-C2C	-2.36	104.03	113.37
22	B	806	BCR	C11-C10-C9	-2.36	123.96	127.28
27	b	311	CHL	CED-O2D-CGD	2.36	121.28	115.92
27	B	836	CHL	C4C-C3C-C2C	-2.36	104.03	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	827	CHL	CMD-C2D-C3D	2.36	129.41	124.68
27	A	823	CHL	CMC-C2C-C1C	2.36	128.99	124.73
27	A	832	CHL	C1-C2-C3	-2.36	122.33	126.20
27	4	306	CHL	C1-C2-C3	-2.36	122.33	126.20
27	B	824	CHL	CBC-CAC-C3C	-2.36	109.49	112.87
27	4	317	CHL	C4C-C3C-C2C	-2.36	104.04	113.37
27	B	850	CHL	CMD-C2D-C3D	2.36	129.40	124.68
27	b	314	CHL	C1C-CHC-C4B	2.36	124.52	116.07
27	A	818	CHL	CMA-C3A-C4A	-2.36	109.52	114.61
27	B	811	CHL	C1-O2A-CGA	2.36	122.37	116.65
27	6	307	CHL	C1B-CHB-C4A	2.36	122.84	121.32
27	A	833	CHL	CMD-C2D-C3D	2.36	129.40	124.68
27	5	323	CHL	CED-O2D-CGD	2.36	121.27	115.92
27	4	307	CHL	CMC-C2C-C1C	2.36	128.98	124.73
27	7	311	CHL	C4C-C3C-C2C	-2.36	104.06	113.37
27	A	822	CHL	C1-C2-C3	-2.36	122.33	126.20
27	B	818	CHL	CMA-C3A-C4A	-2.36	109.53	114.61
27	A	848	CHL	C1C-CHC-C4B	2.36	124.51	116.07
27	F	308	CHL	C4C-C3C-C2C	-2.36	104.06	113.37
27	A	859	CHL	CMD-C2D-C3D	2.36	129.39	124.68
27	7	312	CHL	CMD-C2D-C3D	2.36	129.39	124.68
27	A	829	CHL	C4-C3-C5	2.36	119.32	115.23
27	B	815	CHL	CMC-C2C-C1C	2.36	128.97	124.73
27	A	831	CHL	CAC-C3C-C2C	2.36	131.89	127.56
27	A	846	CHL	C5-C3-C4	2.36	120.01	114.59
27	8	313	CHL	C4C-C3C-C2C	-2.36	104.07	113.37
27	A	825	CHL	C4-C3-C5	2.36	119.32	115.23
27	6	305	CHL	C1C-CHC-C4B	2.36	124.50	116.07
27	A	842	CHL	CMB-C2B-C3B	2.35	129.39	124.68
27	7	313	CHL	C1-C2-C3	-2.35	122.34	126.20
27	B	832	CHL	CMB-C2B-C3B	2.35	129.38	124.68
27	6	309	CHL	C4C-C3C-C2C	-2.35	104.08	113.37
29	3	304	LUT	C1-C6-C7	-2.35	109.27	115.65
27	7	316	CHL	O2A-CGA-CBA	2.35	119.01	111.83
29	8	303	LUT	C1-C6-C7	-2.35	109.27	115.65
27	B	825	CHL	CMD-C2D-C3D	2.35	129.38	124.68
27	a	317	CHL	C4C-C3C-C2C	-2.35	104.08	113.37
27	3	310	CHL	C4C-C3C-C2C	-2.35	104.08	113.37
27	8	313	CHL	CMA-C3A-C4A	-2.35	109.55	114.61
27	5	307	CHL	CMD-C2D-C3D	2.35	129.38	124.68
27	B	829	CHL	CMC-C2C-C1C	2.35	128.96	124.73
27	7	311	CHL	C1C-CHC-C4B	2.35	124.48	116.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	8	319	CHL	CMA-C3A-C4A	-2.35	109.55	114.61
27	B	849	CHL	C4C-C3C-C2C	-2.35	104.09	113.37
27	K	205	CHL	C4C-C3C-C2C	-2.35	104.09	113.37
27	b	304	CHL	CMC-C2C-C1C	2.35	128.96	124.73
27	b	312	CHL	CBC-CAC-C3C	-2.35	109.51	112.87
27	3	308	CHL	CMD-C2D-C3D	2.35	129.38	124.68
27	B	827	CHL	C4-C3-C5	2.35	119.31	115.23
22	I	801	BCR	C33-C5-C6	-2.35	121.92	124.48
27	3	310	CHL	C1-C2-C3	-2.35	122.35	126.20
27	B	833	CHL	C4C-C3C-C2C	-2.35	104.10	113.37
27	3	317	CHL	C4C-C3C-C2C	-2.35	104.10	113.37
27	4	315	CHL	CMB-C2B-C3B	2.35	129.38	124.68
27	B	811	CHL	CED-O2D-CGD	2.35	121.24	115.92
27	A	821	CHL	C1C-CHC-C4B	2.35	124.47	116.07
27	K	204	CHL	C1C-CHC-C4B	2.35	124.47	116.07
27	A	822	CHL	CED-O2D-CGD	2.35	121.24	115.92
27	8	318	CHL	C4C-C3C-C2C	-2.35	104.10	113.37
27	A	857	CHL	CBC-CAC-C3C	-2.35	109.52	112.87
27	B	838	CHL	C1C-CHC-C4B	2.34	124.46	116.07
27	L	304	CHL	C4C-C3C-C2C	-2.34	104.11	113.37
27	b	307	CHL	C4C-C3C-C2C	-2.34	104.11	113.37
27	A	856	CHL	C4C-C3C-C2C	-2.34	104.11	113.37
27	5	307	CHL	C1C-CHC-C4B	2.34	124.46	116.07
27	A	817	CHL	C4C-C3C-C2C	-2.34	104.11	113.37
27	4	319	CHL	O1D-CGD-CBD	-2.34	121.17	124.72
27	A	837	CHL	C4C-C3C-C2C	-2.34	104.12	113.37
22	B	804	BCR	C15-C16-C17	-2.34	118.72	123.52
27	8	323	CHL	CAA-CBA-CGA	-2.34	106.56	113.21
27	6	316	CHL	CMD-C2D-C3D	2.34	129.36	124.68
27	6	312	CHL	CMC-C2C-C1C	2.34	128.95	124.73
27	B	840	CHL	O2A-CGA-O1A	-2.34	117.77	123.63
27	3	318	CHL	C1-O2A-CGA	2.34	122.32	116.65
27	5	311	CHL	CED-O2D-CGD	2.34	121.23	115.92
27	7	324	CHL	CMD-C2D-C3D	2.34	129.36	124.68
27	A	849	CHL	C4C-C3C-C2C	-2.34	104.12	113.37
27	A	827	CHL	C4C-C3C-C2C	-2.34	104.12	113.37
27	B	831	CHL	CMC-C2C-C1C	2.34	128.95	124.73
27	B	847	CHL	C4C-C3C-C2C	-2.34	104.12	113.37
27	3	319	CHL	CMD-C2D-C3D	2.34	129.36	124.68
27	B	815	CHL	CMB-C2B-C3B	2.34	129.36	124.68
27	5	310	CHL	CMB-C2B-C3B	2.34	129.36	124.68
27	A	847	CHL	CMC-C2C-C1C	2.34	128.94	124.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	5	310	CHL	O2A-CGA-CBA	2.34	118.97	111.83
27	a	307	CHL	CBC-CAC-C3C	-2.34	109.52	112.87
27	6	312	CHL	CBC-CAC-C3C	-2.34	109.52	112.87
27	B	819	CHL	CMB-C2B-C3B	2.34	129.36	124.68
27	4	310	CHL	CMD-C2D-C3D	2.34	129.36	124.68
27	B	815	CHL	C4C-C3C-C2C	-2.34	104.13	113.37
27	K	205	CHL	CMA-C3A-C4A	-2.34	109.57	114.61
22	B	805	BCR	C15-C14-C13	-2.34	124.00	127.28
27	B	831	CHL	C4C-C3C-C2C	-2.34	104.14	113.37
27	K	205	CHL	CBC-CAC-C3C	-2.34	109.53	112.87
27	6	309	CHL	CMD-C2D-C3D	2.34	129.35	124.68
27	6	314	CHL	CMD-C2D-C3D	2.34	129.35	124.68
27	8	322	CHL	CMD-C2D-C3D	2.34	129.35	124.68
27	4	310	CHL	C4C-C3C-C2C	-2.34	104.14	113.37
27	3	309	CHL	C4C-C3C-C2C	-2.34	104.14	113.37
27	B	819	CHL	C1-C2-C3	-2.34	122.37	126.20
27	B	839	CHL	C1C-CHC-C4B	2.34	124.43	116.07
27	B	823	CHL	C4C-C3C-C2C	-2.34	104.15	113.37
28	B	809	DGD	CFB-CEB-CDB	-2.34	102.56	114.37
29	b	301	LUT	C36-C21-C26	2.33	113.08	109.55
27	a	307	CHL	C4C-C3C-C2C	-2.33	104.15	113.37
27	6	320	CHL	CBC-CAC-C3C	-2.33	109.53	112.87
24	5	324	LHG	C11-C10-C9	-2.33	102.57	114.37
27	8	312	CHL	CMC-C2C-C1C	2.33	128.94	124.73
27	B	817	CHL	C4C-C3C-C2C	-2.33	104.15	113.37
27	A	822	CHL	CMA-C3A-C4A	-2.33	109.58	114.61
27	a	313	CHL	C4C-C3C-C2C	-2.33	104.15	113.37
27	6	307	CHL	CBA-CAA-C2A	-2.33	106.90	113.78
27	A	832	CHL	C4C-C3C-C2C	-2.33	104.16	113.37
22	A	806	BCR	C28-C27-C26	-2.33	109.89	114.06
27	B	839	CHL	C4C-C3C-C2C	-2.33	104.16	113.37
27	B	822	CHL	CMA-C3A-C4A	-2.33	109.58	114.61
27	A	845	CHL	CMD-C2D-C3D	2.33	129.34	124.68
27	b	313	CHL	C4C-C3C-C2C	-2.33	104.16	113.37
27	4	312	CHL	C1C-CHC-C4B	2.33	124.42	116.07
27	5	325	CHL	C1C-CHC-C4B	2.33	124.41	116.07
27	4	315	CHL	C4C-C3C-C2C	-2.33	104.16	113.37
27	b	314	CHL	C4C-C3C-C2C	-2.33	104.16	113.37
27	A	824	CHL	C1-C2-C3	-2.33	122.38	126.20
29	a	304	LUT	C1-C6-C7	-2.33	109.33	115.65
27	4	318	CHL	C1C-CHC-C4B	2.33	124.41	116.07
28	7	307	DGD	CFB-CEB-CDB	-2.33	102.59	114.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	J	106	CHL	C4C-C3C-C2C	-2.33	104.17	113.37
27	5	310	CHL	C4C-C3C-C2C	-2.33	104.17	113.37
27	8	319	CHL	C4C-C3C-C2C	-2.33	104.17	113.37
27	A	859	CHL	C4C-C3C-C2C	-2.33	104.17	113.37
27	5	307	CHL	C4C-C3C-C2C	-2.33	104.17	113.37
27	a	307	CHL	CMD-C2D-C3D	2.33	129.34	124.68
27	A	846	CHL	CAA-CBA-CGA	-2.33	106.59	113.21
27	7	315	CHL	O2D-CGD-CBD	2.33	119.61	113.90
27	4	315	CHL	CMC-C2C-C1C	2.33	128.93	124.73
27	B	816	CHL	C4C-C3C-C2C	-2.33	104.17	113.37
27	B	819	CHL	C4C-C3C-C2C	-2.33	104.17	113.37
27	A	845	CHL	C4-C3-C5	2.33	119.27	115.23
27	B	837	CHL	C4C-C3C-C2C	-2.33	104.18	113.37
27	B	821	CHL	C1C-CHC-C4B	2.33	124.40	116.07
27	A	845	CHL	CMB-C2B-C3B	2.33	129.33	124.68
29	4	301	LUT	C3-C4-C5	2.33	117.97	112.18
27	a	310	CHL	C4C-C3C-C2C	-2.33	104.18	113.37
27	A	858	CHL	CMD-C2D-C3D	2.33	129.33	124.68
24	7	302	LHG	C11-C10-C9	-2.33	102.61	114.37
27	B	838	CHL	C4C-C3C-C2C	-2.33	104.18	113.37
27	A	820	CHL	C7-C6-C5	-2.33	107.06	113.26
27	a	320	CHL	CMC-C2C-C1C	2.33	128.92	124.73
27	B	834	CHL	CMD-C2D-C3D	2.33	129.33	124.68
27	7	320	CHL	CMD-C2D-C3D	2.33	129.33	124.68
27	4	309	CHL	CBC-CAC-C3C	-2.33	109.54	112.87
27	8	322	CHL	CMB-C2B-C3B	2.32	129.33	124.68
27	5	310	CHL	C1-C2-C3	-2.32	122.39	126.20
27	B	816	CHL	C1C-CHC-C4B	2.32	124.39	116.07
27	A	820	CHL	CMD-C2D-C3D	2.32	129.33	124.68
27	3	309	CHL	CMB-C2B-C3B	2.32	129.33	124.68
27	A	835	CHL	C4C-C3C-C2C	-2.32	104.19	113.37
29	5	303	LUT	C10-C11-C12	-2.32	116.47	123.20
27	a	310	CHL	CMB-C2B-C3B	2.32	129.33	124.68
27	3	317	CHL	CMD-C2D-C3D	2.32	129.33	124.68
27	6	313	CHL	CMC-C2C-C1C	2.32	128.91	124.73
27	A	838	CHL	CMA-C3A-C4A	-2.32	109.61	114.61
27	B	849	CHL	CMA-C3A-C4A	-2.32	109.61	114.61
27	7	316	CHL	C4-C3-C5	2.32	119.26	115.23
27	A	818	CHL	C4C-C3C-C2C	-2.32	104.20	113.37
27	B	811	CHL	CMC-C2C-C1C	2.32	128.91	124.73
27	B	815	CHL	CBC-CAC-C3C	-2.32	109.55	112.87
27	B	832	CHL	C4C-C3C-C2C	-2.32	104.20	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	811	CHL	C1C-CHC-C4B	2.32	124.38	116.07
27	5	322	CHL	CMA-C3A-C4A	-2.32	109.61	114.61
27	7	313	CHL	C4C-C3C-C2C	-2.32	104.20	113.37
27	b	315	CHL	CMC-C2C-C1C	2.32	128.91	124.73
27	B	824	CHL	C4-C3-C2	-2.32	117.67	123.63
27	4	320	CHL	O2A-CGA-CBA	2.32	118.91	111.83
27	3	318	CHL	CMC-C2C-C1C	2.32	128.91	124.73
27	8	318	CHL	CMD-C2D-C3D	2.32	129.32	124.68
27	6	308	CHL	CAC-C3C-C4C	2.32	129.99	124.03
22	B	802	BCR	C33-C5-C6	-2.32	121.95	124.48
27	A	836	CHL	C1C-CHC-C4B	2.32	124.37	116.07
27	3	311	CHL	C1C-CHC-C4B	2.32	124.37	116.07
27	A	854	CHL	CMC-C2C-C1C	2.32	128.91	124.73
27	B	846	CHL	C4C-C3C-C2C	-2.32	104.21	113.37
27	B	839	CHL	C4-C3-C5	2.32	119.25	115.23
27	B	814	CHL	C1-C2-C3	-2.32	122.40	126.20
27	b	317	CHL	C1C-CHC-C4B	2.32	124.37	116.07
27	6	310	CHL	C4C-C3C-C2C	-2.32	104.22	113.37
27	A	840	CHL	C4C-C3C-C2C	-2.32	104.22	113.37
27	A	829	CHL	CMA-C3A-C4A	-2.32	109.62	114.61
27	8	323	CHL	C5-C3-C4	2.32	119.92	114.59
27	a	308	CHL	C4C-C3C-C2C	-2.32	104.22	113.37
27	6	315	CHL	CMC-C2C-C1C	2.32	128.90	124.73
27	B	848	CHL	CMD-C2D-C3D	2.32	129.31	124.68
27	6	311	CHL	C6-C5-C3	-2.32	107.83	113.47
27	A	857	CHL	C1C-CHC-C4B	2.32	124.36	116.07
27	b	317	CHL	CMD-C2D-C3D	2.32	129.31	124.68
27	6	310	CHL	CMA-C3A-C4A	-2.31	109.62	114.61
27	7	321	CHL	CMD-C2D-C3D	2.31	129.31	124.68
27	3	315	CHL	C4C-C3C-C2C	-2.31	104.23	113.37
24	A	812	LHG	C20-C19-C18	-2.31	102.67	114.37
27	8	315	CHL	C4C-C3C-C2C	-2.31	104.23	113.37
27	5	317	CHL	CMD-C2D-C3D	2.31	129.31	124.68
27	A	850	CHL	C4C-C3C-C2C	-2.31	104.23	113.37
27	B	828	CHL	C4C-C3C-C2C	-2.31	104.23	113.37
29	6	303	LUT	C8-C7-C6	-2.31	120.82	127.00
27	A	821	CHL	C4C-C3C-C2C	-2.31	104.24	113.37
27	7	314	CHL	CMA-C3A-C4A	-2.31	109.63	114.61
27	5	325	CHL	CMD-C2D-C3D	2.31	129.30	124.68
27	7	316	CHL	CMB-C2B-C3B	2.31	129.30	124.68
29	a	302	LUT	C1-C6-C7	-2.31	109.38	115.65
22	B	807	BCR	C10-C11-C12	-2.31	116.50	123.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	a	314	CHL	C4C-C3C-C2C	-2.31	104.24	113.37
27	a	313	CHL	C1C-CHC-C4B	2.31	124.34	116.07
27	6	312	CHL	C4C-C3C-C2C	-2.31	104.25	113.37
27	6	320	CHL	CMB-C2B-C3B	2.31	129.30	124.68
27	b	307	CHL	CBC-CAC-C3C	-2.31	109.56	112.87
27	6	311	CHL	C4C-C3C-C2C	-2.31	104.25	113.37
27	A	840	CHL	C4-C3-C5	2.31	119.24	115.23
27	A	849	CHL	CMB-C2B-C3B	2.31	129.30	124.68
27	4	306	CHL	C4C-C3C-C2C	-2.31	104.25	113.37
27	3	314	CHL	CMA-C3A-C4A	-2.31	109.64	114.61
27	B	813	CHL	O2A-CGA-CBA	2.31	118.88	111.83
27	3	317	CHL	O2A-CGA-CBA	2.31	118.87	111.83
27	6	314	CHL	C4C-C3C-C2C	-2.31	104.25	113.37
27	8	325	CHL	C4C-C3C-C2C	-2.31	104.26	113.37
27	a	316	CHL	CMD-C2D-C3D	2.31	129.29	124.68
27	A	831	CHL	C1-O2A-CGA	2.31	122.24	116.65
27	a	316	CHL	O2D-CGD-O1D	-2.31	119.36	123.85
27	4	307	CHL	C4C-C3C-C2C	-2.31	104.26	113.37
27	A	839	CHL	C4C-C3C-C2C	-2.31	104.26	113.37
27	A	859	CHL	CMC-C2C-C1C	2.31	128.88	124.73
27	a	307	CHL	C4-C3-C5	2.31	119.23	115.23
27	B	847	CHL	CMA-C3A-C4A	-2.31	109.64	114.61
27	A	854	CHL	C1-C2-C3	-2.31	122.42	126.20
27	8	324	CHL	C1C-CHC-C4B	2.31	124.32	116.07
27	A	851	CHL	CMB-C2B-C3B	2.31	129.29	124.68
27	b	304	CHL	C4C-C3C-C2C	-2.31	104.27	113.37
27	5	311	CHL	CMA-C3A-C4A	-2.31	109.64	114.61
27	B	844	CHL	C4C-C3C-C2C	-2.30	104.27	113.37
27	A	853	CHL	C4C-C3C-C2C	-2.30	104.27	113.37
27	A	835	CHL	C1C-CHC-C4B	2.30	124.31	116.07
23	5	306	LMT	C3'-C4'-C5'	-2.30	105.82	110.93
27	7	317	CHL	C4C-C3C-C2C	-2.30	104.27	113.37
22	F	301	BCR	C24-C23-C22	-2.30	122.83	126.23
27	A	856	CHL	CMC-C2C-C1C	2.30	128.88	124.73
27	B	825	CHL	C4C-C3C-C2C	-2.30	104.28	113.37
27	B	814	CHL	C4-C3-C5	2.30	119.22	115.23
27	5	309	CHL	C4C-C3C-C2C	-2.30	104.28	113.37
27	5	314	CHL	CMA-C3A-C4A	-2.30	109.65	114.61
27	B	839	CHL	CMD-C2D-C3D	2.30	129.28	124.68
27	a	317	CHL	C1-C2-C3	-2.30	122.42	126.20
27	5	319	CHL	C1C-CHC-C4B	2.30	124.31	116.07
27	A	826	CHL	C4C-C3C-C2C	-2.30	104.28	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	827	CHL	CBC-CAC-C3C	-2.30	109.58	112.87
27	B	848	CHL	C1-O2A-CGA	2.30	122.22	116.65
27	6	318	CHL	CMD-C2D-C3D	2.30	129.28	124.68
27	A	851	CHL	C1C-CHC-C4B	2.30	124.30	116.07
27	A	852	CHL	C4C-C3C-C2C	-2.30	104.28	113.37
27	4	306	CHL	C1C-CHC-C4B	2.30	124.30	116.07
27	A	840	CHL	CMD-C2D-C3D	2.30	129.28	124.68
27	B	824	CHL	CMD-C2D-C3D	2.30	129.28	124.68
27	K	206	CHL	C4C-C3C-C2C	-2.30	104.28	113.37
30	a	301	LMG	O6-C1-O1	-2.30	104.61	110.04
27	B	838	CHL	C1-C2-C3	-2.30	122.43	126.20
27	7	315	CHL	C4C-C3C-C2C	-2.30	104.29	113.37
22	A	804	BCR	C11-C10-C9	-2.30	124.06	127.28
26	A	815	CL0	C4D-CHA-CBD	2.30	111.28	108.97
27	5	320	CHL	C4C-C3C-C2C	-2.30	104.30	113.37
27	5	321	CHL	C4C-C3C-C2C	-2.30	104.30	113.37
22	L	301	BCR	C27-C26-C25	2.30	125.81	122.70
27	A	836	CHL	CMD-C2D-C3D	2.30	129.27	124.68
27	4	320	CHL	C4C-C3C-C2C	-2.30	104.30	113.37
27	B	848	CHL	CMA-C3A-C4A	-2.30	109.66	114.61
27	B	846	CHL	C1C-CHC-C4B	2.30	124.29	116.07
22	L	302	BCR	C33-C5-C6	-2.30	121.98	124.48
27	A	844	CHL	C4C-C3C-C2C	-2.30	104.30	113.37
27	5	323	CHL	CMD-C2D-C3D	2.30	129.27	124.68
27	b	312	CHL	C1C-CHC-C4B	2.30	124.28	116.07
27	B	848	CHL	C4C-C3C-C2C	-2.30	104.30	113.37
27	B	815	CHL	CMD-C2D-C3D	2.30	129.27	124.68
27	F	309	CHL	C4C-C3C-C2C	-2.30	104.30	113.37
27	A	822	CHL	C4C-C3C-C2C	-2.30	104.31	113.37
27	B	843	CHL	C4C-C3C-C2C	-2.30	104.31	113.37
27	A	816	CHL	C1A-CHA-C4D	-2.29	115.15	118.98
27	B	832	CHL	C1C-CHC-C4B	2.29	124.28	116.07
27	A	854	CHL	C4C-C3C-C2C	-2.29	104.31	113.37
27	5	314	CHL	CMC-C2C-C1C	2.29	128.86	124.73
27	6	320	CHL	C4C-C3C-C2C	-2.29	104.31	113.37
27	A	817	CHL	CMC-C2C-C1C	2.29	128.86	124.73
27	B	828	CHL	CMD-C2D-C3D	2.29	129.26	124.68
27	5	314	CHL	C4C-C3C-C2C	-2.29	104.32	113.37
27	B	825	CHL	C1-C2-C3	-2.29	122.44	126.20
27	A	825	CHL	C4C-C3C-C2C	-2.29	104.32	113.37
27	A	846	CHL	O1D-CGD-CBD	-2.29	121.25	124.72
27	b	309	CHL	C4C-C3C-C2C	-2.29	104.32	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	4	311	CHL	C4C-C3C-C2C	-2.29	104.32	113.37
27	a	309	CHL	CMA-C3A-C4A	-2.29	109.67	114.61
27	a	312	CHL	C1C-CHC-C4B	2.29	124.27	116.07
27	A	848	CHL	C4C-C3C-C2C	-2.29	104.32	113.37
27	3	321	CHL	C4C-C3C-C2C	-2.29	104.32	113.37
26	A	815	CL0	CMA-C3A-C4A	-2.29	109.68	114.61
27	b	312	CHL	C4C-C3C-C2C	-2.29	104.33	113.37
27	B	826	CHL	CMB-C2B-C3B	2.29	129.26	124.68
27	A	840	CHL	C1C-CHC-C4B	2.29	124.25	116.07
27	a	320	CHL	CMA-C3A-C4A	-2.29	109.68	114.61
27	A	847	CHL	C4C-C3C-C2C	-2.29	104.34	113.37
27	8	311	CHL	C4C-C3C-C2C	-2.29	104.34	113.37
27	B	847	CHL	C1-C2-C3	-2.29	122.45	126.20
27	A	823	CHL	C4C-C3C-C2C	-2.29	104.34	113.37
22	3	303	BCR	C3-C4-C5	-2.29	109.98	114.06
22	B	803	BCR	C33-C5-C6	-2.29	121.99	124.48
27	8	316	CHL	C4C-C3C-C2C	-2.29	104.34	113.37
27	B	849	CHL	CMD-C2D-C3D	2.28	129.25	124.68
27	4	316	CHL	CMD-C2D-C3D	2.28	129.25	124.68
27	5	312	CHL	C5-C3-C4	2.28	119.85	114.59
27	A	818	CHL	C1C-CHC-C4B	2.28	124.24	116.07
27	B	850	CHL	O2A-CGA-CBA	2.28	118.80	111.83
27	B	835	CHL	C1-C2-C3	-2.28	122.45	126.20
27	8	319	CHL	CMD-C2D-C3D	2.28	129.25	124.68
27	3	318	CHL	C4C-C3C-C2C	-2.28	104.35	113.37
27	8	320	CHL	O2A-CGA-CBA	2.28	118.80	111.83
27	B	826	CHL	C4C-C3C-C2C	-2.28	104.35	113.37
27	8	314	CHL	CMB-C2B-C3B	2.28	129.25	124.68
27	a	312	CHL	C4C-C3C-C2C	-2.28	104.36	113.37
27	5	312	CHL	C4C-C3C-C2C	-2.28	104.36	113.37
27	8	313	CHL	C5-C3-C4	2.28	119.84	114.59
27	6	306	CHL	CMB-C2B-C3B	2.28	129.24	124.68
27	6	320	CHL	C1C-CHC-C4B	2.28	124.23	116.07
27	A	851	CHL	C4C-C3C-C2C	-2.28	104.36	113.37
22	3	301	BCR	C31-C1-C6	2.28	113.82	110.24
27	K	206	CHL	CMA-C3A-C4A	-2.28	109.70	114.61
27	4	319	CHL	C4C-C3C-C2C	-2.28	104.36	113.37
27	5	318	CHL	C4C-C3C-C2C	-2.28	104.36	113.37
27	a	319	CHL	CMA-C3A-C4A	-2.28	109.70	114.61
27	A	819	CHL	CMD-C2D-C3D	2.28	129.24	124.68
27	5	320	CHL	CMB-C2B-C3B	2.28	129.24	124.68
27	5	310	CHL	CMD-C2D-C3D	2.28	129.24	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	833	CHL	C4-C3-C5	2.28	119.18	115.23
27	3	312	CHL	C4C-C3C-C2C	-2.28	104.37	113.37
27	B	812	CHL	O2A-CGA-O1A	-2.28	117.93	123.63
27	A	855	CHL	C4C-C3C-C2C	-2.28	104.37	113.37
29	b	301	LUT	C22-C23-C24	2.28	114.57	111.18
27	7	318	CHL	CMD-C2D-C3D	2.28	129.24	124.68
27	A	834	CHL	C4C-C3C-C2C	-2.28	104.37	113.37
27	B	825	CHL	CMA-C3A-C4A	-2.28	109.70	114.61
27	7	315	CHL	CMC-C2C-C1C	2.28	128.83	124.73
27	B	840	CHL	CMA-C3A-C4A	-2.28	109.70	114.61
27	3	314	CHL	CMD-C2D-C3D	2.28	129.23	124.68
27	A	840	CHL	O2A-CGA-CBA	2.28	118.78	111.83
22	A	807	BCR	C2-C1-C6	2.28	113.75	110.44
27	A	832	CHL	C1C-CHC-C4B	2.28	124.21	116.07
27	6	312	CHL	O2A-CGA-CBA	2.28	120.74	112.14
27	5	318	CHL	CMB-C2B-C3B	2.28	129.23	124.68
27	3	321	CHL	CMA-C3A-C4A	-2.28	109.71	114.61
27	A	853	CHL	CMD-C2D-C3D	2.28	129.23	124.68
27	3	321	CHL	CMB-C2B-C3B	2.28	129.23	124.68
29	b	303	LUT	C26-C27-C28	2.28	128.12	124.58
27	J	106	CHL	CMD-C2D-C3D	2.28	129.23	124.68
27	a	312	CHL	O2A-CGA-CBA	2.28	118.77	111.83
27	4	304	CHL	C1C-CHC-C4B	2.28	124.21	116.07
27	B	829	CHL	CMB-C2B-C3B	2.27	129.23	124.68
27	A	819	CHL	C4C-C3C-C2C	-2.27	104.39	113.37
27	5	322	CHL	CMD-C2D-C3D	2.27	129.23	124.68
30	a	301	LMG	O2-C2-C1	-2.27	104.66	110.08
27	4	304	CHL	CMD-C2D-C3D	2.27	129.23	124.68
27	A	821	CHL	CMC-C2C-C1C	2.27	128.82	124.73
27	4	318	CHL	C4C-C3C-C2C	-2.27	104.39	113.37
27	5	310	CHL	C1C-CHC-C4B	2.27	124.20	116.07
27	A	829	CHL	CMD-C2D-C3D	2.27	129.22	124.68
27	8	316	CHL	CMC-C2C-C1C	2.27	128.82	124.73
27	B	821	CHL	C4C-C3C-C2C	-2.27	104.39	113.37
27	7	318	CHL	C1C-CHC-C4B	2.27	124.20	116.07
27	8	326	CHL	C4C-C3C-C2C	-2.27	104.40	113.37
27	a	312	CHL	C5-C3-C4	2.27	119.81	114.59
27	5	311	CHL	C1C-CHC-C4B	2.27	124.19	116.07
27	3	317	CHL	CMB-C2B-C3B	2.27	129.22	124.68
27	a	311	CHL	C4C-C3C-C2C	-2.27	104.40	113.37
27	3	319	CHL	C4C-C3C-C2C	-2.27	104.40	113.37
27	3	315	CHL	CMD-C2D-C3D	2.27	129.22	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	7	303	BCR	C15-C16-C17	-2.27	118.87	123.52
27	a	308	CHL	CMC-C2C-C1C	2.27	128.82	124.73
27	6	315	CHL	C4C-C3C-C2C	-2.27	104.41	113.37
27	3	319	CHL	CMC-C2C-C1C	2.27	128.82	124.73
27	A	843	CHL	C11-C12-C13	-2.27	108.42	115.97
27	a	320	CHL	O2A-CGA-CBA	2.27	120.71	112.14
27	B	849	CHL	CMC-C2C-C1C	2.27	128.82	124.73
27	B	845	CHL	C1C-CHC-C4B	2.27	124.18	116.07
27	3	314	CHL	CMB-C2B-C3B	2.27	129.22	124.68
27	F	308	CHL	CMC-C2C-C1C	2.27	128.81	124.73
27	K	204	CHL	C4C-C3C-C2C	-2.27	104.41	113.37
27	6	313	CHL	C4C-C3C-C2C	-2.27	104.42	113.37
27	3	318	CHL	CMB-C2B-C3B	2.27	129.21	124.68
22	A	805	BCR	C15-C16-C17	-2.27	118.88	123.52
27	B	826	CHL	C1C-CHC-C4B	2.27	124.18	116.07
29	5	303	LUT	C4-C5-C6	-2.27	116.10	120.76
27	3	314	CHL	C4C-C3C-C2C	-2.27	104.42	113.37
27	A	832	CHL	C4-C3-C2	-2.27	117.81	123.63
27	B	836	CHL	CBC-CAC-C3C	-2.27	109.63	112.87
27	6	310	CHL	C1C-CHC-C4B	2.26	124.17	116.07
27	B	847	CHL	CMC-C2C-C1C	2.26	128.81	124.73
27	6	306	CHL	C4C-C3C-C2C	-2.26	104.43	113.37
27	5	309	CHL	C1C-CHC-C4B	2.26	124.17	116.07
27	B	812	CHL	C1A-CHA-C4D	-2.26	115.20	118.98
27	B	829	CHL	C4C-C3C-C2C	-2.26	104.43	113.37
27	5	321	CHL	CMC-C2C-C1C	2.26	128.81	124.73
27	B	818	CHL	C4C-C3C-C2C	-2.26	104.43	113.37
27	A	829	CHL	C4C-C3C-C2C	-2.26	104.44	113.37
27	8	324	CHL	OBD-CAD-C3D	2.26	131.42	127.89
27	A	821	CHL	C4-C3-C5	2.26	119.16	115.23
22	A	806	BCR	C16-C15-C14	-2.26	118.89	123.52
27	6	320	CHL	CMC-C2C-C1C	2.26	128.80	124.73
27	a	318	CHL	CMA-C3A-C4A	-2.26	109.74	114.61
27	b	316	CHL	C1C-CHC-C4B	2.26	124.16	116.07
27	B	828	CHL	O2A-CGA-CBA	2.26	118.73	111.83
27	A	828	CHL	CED-O2D-CGD	2.26	121.04	115.92
22	6	301	BCR	C23-C22-C21	2.26	122.56	119.01
27	7	323	CHL	C4C-C3C-C2C	-2.26	104.44	113.37
27	B	845	CHL	O2A-CGA-O1A	-2.26	117.97	123.63
27	b	310	CHL	CED-O2D-CGD	2.26	121.04	115.92
27	6	306	CHL	CMD-C2D-C3D	2.26	129.20	124.68
27	b	304	CHL	CMD-C2D-C3D	2.26	129.20	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	a	309	CHL	C4C-C3C-C2C	-2.26	104.45	113.37
27	6	305	CHL	C4C-C3C-C2C	-2.26	104.45	113.37
27	F	309	CHL	CMD-C2D-C3D	2.26	129.20	124.68
27	B	840	CHL	C4C-C3C-C2C	-2.26	104.45	113.37
27	B	817	CHL	C1A-CHA-C4D	-2.26	115.21	118.98
27	3	313	CHL	C4C-C3C-C2C	-2.26	104.45	113.37
27	b	305	CHL	CBC-CAC-C3C	-2.26	109.64	112.87
22	A	805	BCR	C3-C4-C5	-2.26	110.03	114.06
27	4	308	CHL	C4C-C3C-C2C	-2.26	104.45	113.37
30	7	301	LMG	O3-C3-C2	-2.26	105.05	110.38
27	b	310	CHL	O2A-CGA-CBA	2.26	120.67	112.14
27	b	317	CHL	CMA-C3A-C4A	-2.26	109.75	114.61
22	8	302	BCR	C3-C4-C5	-2.26	110.03	114.06
27	A	837	CHL	CMC-C2C-C1C	2.26	128.79	124.73
27	A	826	CHL	C1C-CHC-C4B	2.26	124.14	116.07
27	5	314	CHL	C1C-CHC-C4B	2.26	124.14	116.07
27	A	857	CHL	CMC-C2C-C1C	2.26	128.79	124.73
27	A	859	CHL	C1C-CHC-C4B	2.26	124.14	116.07
27	7	315	CHL	CMA-C3A-C4A	-2.26	109.75	114.61
27	b	311	CHL	O2A-CGA-CBA	2.25	120.66	112.14
27	b	310	CHL	C4C-C3C-C2C	-2.25	104.47	113.37
27	6	318	CHL	C1C-CHC-C4B	2.25	124.13	116.07
27	K	205	CHL	CMB-C2B-C3B	2.25	129.19	124.68
27	a	308	CHL	CMB-C2B-C3B	2.25	129.19	124.68
27	7	312	CHL	CMC-C2C-C1C	2.25	128.79	124.73
27	8	320	CHL	C4C-C3C-C2C	-2.25	104.47	113.37
27	A	854	CHL	C1C-CHC-C4B	2.25	124.13	116.07
27	7	317	CHL	CMA-C3A-C4A	-2.25	109.76	114.61
27	8	321	CHL	CMA-C3A-C4A	-2.25	109.76	114.61
27	3	318	CHL	CMD-C2D-C3D	2.25	129.18	124.68
27	a	320	CHL	C4C-C3C-C2C	-2.25	104.48	113.37
27	B	832	CHL	C6-C5-C3	-2.25	107.99	113.47
27	B	845	CHL	C5-C3-C4	2.25	119.77	114.59
27	A	839	CHL	O2A-CGA-CBA	2.25	118.69	111.83
27	B	851	CHL	CMD-C2D-C3D	2.25	129.18	124.68
29	8	304	LUT	C21-C26-C27	-2.25	110.24	112.83
27	a	320	CHL	CED-O2D-CGD	2.25	121.02	115.92
27	5	312	CHL	C1C-CHC-C4B	2.25	124.11	116.07
27	A	816	CHL	CMC-C2C-C1C	2.25	128.78	124.73
27	A	822	CHL	CBC-CAC-C3C	-2.25	109.66	112.87
22	I	801	BCR	C27-C26-C25	2.25	125.74	122.70
27	5	325	CHL	CMA-C3A-C4A	-2.25	109.77	114.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	6	311	CHL	CMD-C2D-C3D	2.25	129.17	124.68
27	7	314	CHL	CMD-C2D-C3D	2.25	129.17	124.68
27	6	309	CHL	C1C-CHC-C4B	2.25	124.11	116.07
22	A	806	BCR	C33-C5-C6	-2.25	122.03	124.48
27	B	820	CHL	CMC-C2C-C1C	2.25	128.78	124.73
27	3	312	CHL	CMD-C2D-C3D	2.25	129.17	124.68
24	B	808	LHG	C27-C26-C25	-2.25	103.02	114.37
27	5	307	CHL	CMC-C2C-C1C	2.25	128.78	124.73
27	5	317	CHL	C1C-CHC-C4B	2.25	124.10	116.07
27	A	818	CHL	CMD-C2D-C3D	2.25	129.17	124.68
27	A	855	CHL	CMC-C2C-C1C	2.25	128.77	124.73
27	B	851	CHL	O2A-CGA-CBA	2.24	118.68	111.83
27	a	314	CHL	CMB-C2B-C3B	2.24	129.17	124.68
27	F	308	CHL	CBC-CAC-C3C	-2.24	109.66	112.87
27	B	820	CHL	C4C-C3C-C2C	-2.24	104.51	113.37
27	5	310	CHL	CBC-CAC-C3C	-2.24	109.66	112.87
22	B	803	BCR	C15-C14-C13	-2.24	124.13	127.28
27	4	320	CHL	CMC-C2C-C1C	2.24	128.77	124.73
27	3	312	CHL	C1C-CHC-C4B	2.24	124.10	116.07
27	5	308	CHL	CMC-C2C-C1C	2.24	128.77	124.73
27	3	311	CHL	C4C-C3C-C2C	-2.24	104.51	113.37
27	6	306	CHL	CMA-C3A-C4A	-2.24	109.78	114.61
27	8	321	CHL	C1C-CHC-C4B	2.24	124.09	116.07
27	A	855	CHL	O2A-CGA-O1A	-2.24	118.02	123.63
28	B	809	DGD	CBB-CAB-C9B	-2.24	103.03	114.37
27	B	816	CHL	CMB-C2B-C3B	2.24	129.16	124.68
27	8	324	CHL	CMA-C3A-C4A	-2.24	109.78	114.61
27	A	830	CHL	CMA-C3A-C4A	-2.24	109.78	114.61
27	A	839	CHL	CMD-C2D-C3D	2.24	129.16	124.68
27	4	304	CHL	C4C-C3C-C2C	-2.24	104.53	113.37
27	F	308	CHL	O2A-CGA-CBA	2.24	120.60	112.14
26	A	815	CL0	C1A-CHA-C4D	-2.24	115.25	118.98
27	7	319	CHL	CMD-C2D-C3D	2.24	129.16	124.68
27	8	312	CHL	C1-O2A-CGA	2.24	122.07	116.65
27	A	840	CHL	CMC-C2C-C1C	2.24	128.76	124.73
27	B	813	CHL	C4C-C3C-C2C	-2.24	104.54	113.37
22	B	806	BCR	C27-C26-C25	2.24	125.73	122.70
27	6	305	CHL	O2D-CGD-O1D	-2.24	119.50	123.85
27	5	322	CHL	CED-O2D-CGD	2.24	120.99	115.92
27	A	844	CHL	O2A-CGA-CBA	2.24	118.65	111.83
27	F	308	CHL	CMA-C3A-C4A	-2.24	109.79	114.61
27	a	317	CHL	C1C-CHC-C4B	2.24	124.07	116.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	a	310	CHL	CMD-C2D-C3D	2.24	129.15	124.68
27	4	314	CHL	CMA-C3A-C4A	-2.23	109.80	114.61
27	4	312	CHL	CED-O2D-CGD	2.23	120.98	115.92
27	3	314	CHL	O2A-CGA-CBA	2.23	118.64	111.83
27	B	816	CHL	CBC-CAC-C3C	-2.23	109.68	112.87
27	B	848	CHL	O2A-CGA-CBA	2.23	118.64	111.83
24	A	812	LHG	C18-C17-C16	-2.23	103.08	114.37
27	5	319	CHL	CMD-C2D-C3D	2.23	129.14	124.68
27	B	848	CHL	CBC-CAC-C3C	-2.23	109.68	112.87
22	3	302	BCR	C15-C14-C13	-2.23	124.15	127.28
27	b	313	CHL	C1C-CHC-C4B	2.23	124.05	116.07
27	4	314	CHL	CMB-C2B-C3B	2.23	129.14	124.68
27	b	314	CHL	CMB-C2B-C3B	2.23	129.14	124.68
27	b	312	CHL	O2A-CGA-CBA	2.23	120.57	112.14
27	6	310	CHL	CBC-CAC-C3C	-2.23	109.68	112.87
22	K	203	BCR	C11-C10-C9	-2.23	124.15	127.28
30	a	301	LMG	O1-C1-C2	-2.23	104.89	108.27
27	B	835	CHL	O2A-CGA-CBA	2.23	118.63	111.83
27	7	316	CHL	CED-O2D-CGD	2.23	120.97	115.92
27	8	324	CHL	CMD-C2D-C3D	2.23	129.14	124.68
27	B	837	CHL	C1C-CHC-C4B	2.23	124.04	116.07
27	3	313	CHL	C1C-CHC-C4B	2.23	124.04	116.07
27	5	323	CHL	C4C-C3C-C2C	-2.23	104.57	113.37
27	3	315	CHL	CMA-C3A-C4A	-2.23	109.81	114.61
27	3	321	CHL	C1C-CHC-C4B	2.23	124.04	116.07
27	B	840	CHL	CMD-C2D-C3D	2.23	129.13	124.68
29	6	302	LUT	C36-C21-C26	2.23	112.92	109.55
27	7	317	CHL	O2A-CGA-CBA	2.23	118.62	111.83
27	5	319	CHL	O2A-CGA-CBA	2.23	120.55	112.14
27	3	319	CHL	C1C-CHC-C4B	2.23	124.03	116.07
27	a	308	CHL	CMD-C2D-C3D	2.23	129.13	124.68
27	A	829	CHL	C1C-CHC-C4B	2.23	124.03	116.07
27	6	319	CHL	O2D-CGD-O1D	-2.23	119.52	123.85
27	A	832	CHL	CMA-C3A-C4A	-2.23	109.82	114.61
27	8	314	CHL	CMD-C2D-C3D	2.22	129.13	124.68
27	B	851	CHL	C1C-CHC-C4B	2.22	124.03	116.07
27	5	315	CHL	CMC-C2C-C1C	2.22	128.74	124.73
27	A	816	CHL	C1-C2-C3	-2.22	122.55	126.20
33	7	305	XAT	C28-C29-C30	2.22	122.51	119.01
27	B	850	CHL	C5-C3-C4	2.22	119.71	114.59
27	B	841	CHL	CMB-C2B-C3B	2.22	129.13	124.68
27	6	320	CHL	O2A-CGA-CBA	2.22	120.54	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	8	322	CHL	C4C-C3C-C2C	-2.22	104.59	113.37
27	a	318	CHL	CMD-C2D-C3D	2.22	129.12	124.68
27	b	311	CHL	C1C-CHC-C4B	2.22	124.02	116.07
27	7	318	CHL	C4C-C3C-C2C	-2.22	104.59	113.37
27	b	305	CHL	C4C-C3C-C2C	-2.22	104.60	113.37
27	A	828	CHL	CMD-C2D-C3D	2.22	129.12	124.68
27	8	325	CHL	CMD-C2D-C3D	2.22	129.12	124.68
27	3	311	CHL	CMB-C2B-C3B	2.22	129.12	124.68
27	4	306	CHL	CED-O2D-CGD	2.22	120.95	115.92
27	5	319	CHL	CBC-CAC-C3C	-2.22	109.69	112.87
27	5	309	CHL	O2A-CGA-CBA	2.22	118.60	111.83
27	b	309	CHL	C1C-CHC-C4B	2.22	124.01	116.07
27	B	842	CHL	CMB-C2B-C3B	2.22	129.12	124.68
27	A	821	CHL	CMB-C2B-C3B	2.22	129.12	124.68
27	a	318	CHL	CED-O2D-CGD	2.22	120.95	115.92
27	B	816	CHL	CMC-C2C-C1C	2.22	128.72	124.73
22	3	302	BCR	C27-C26-C25	2.22	125.70	122.70
27	B	831	CHL	O2A-CGA-CBA	2.22	120.51	112.14
27	A	848	CHL	CMD-C2D-C3D	2.22	129.11	124.68
27	6	313	CHL	C1C-CHC-C4B	2.22	124.00	116.07
27	4	311	CHL	CMC-C2C-C1C	2.22	128.72	124.73
28	7	307	DGD	C3G-C2G-C1G	-2.22	106.62	111.78
27	6	318	CHL	CBC-CAC-C3C	-2.22	109.70	112.87
27	B	843	CHL	C1C-CHC-C4B	2.22	124.00	116.07
27	A	833	CHL	CMA-C3A-C4A	-2.22	109.84	114.61
27	b	314	CHL	O2A-CGA-CBA	2.22	120.51	112.14
27	4	307	CHL	C6-C5-C3	-2.21	108.07	113.47
23	B	810	LMT	C1'-O5'-C5'	-2.21	109.39	113.72
30	a	301	LMG	O3-C3-C2	-2.21	105.16	110.38
27	a	319	CHL	C4C-C3C-C2C	-2.21	104.63	113.37
33	7	305	XAT	C8-C9-C10	2.21	122.49	119.01
27	A	833	CHL	CMB-C2B-C3B	2.21	129.10	124.68
27	4	319	CHL	C1C-CHC-C4B	2.21	123.98	116.07
27	8	325	CHL	CMC-C2C-C1C	2.21	128.72	124.73
27	6	314	CHL	C1C-CHC-C4B	2.21	123.98	116.07
27	7	324	CHL	O2A-CGA-CBA	2.21	120.50	112.14
27	A	855	CHL	CMB-C2B-C3B	2.21	129.10	124.68
27	a	311	CHL	CMC-C2C-C1C	2.21	128.71	124.73
27	6	308	CHL	CBC-CAC-C3C	-2.21	109.71	112.87
27	8	320	CHL	CMD-C2D-C3D	2.21	129.10	124.68
27	7	321	CHL	CMA-C3A-C4A	-2.21	109.85	114.61
27	4	308	CHL	CMD-C2D-C3D	2.21	129.10	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	7	316	CHL	CMC-C2C-C1C	2.21	128.71	124.73
27	5	310	CHL	C1-O2A-CGA	2.21	121.99	116.65
27	a	313	CHL	CMD-C2D-C3D	2.21	129.09	124.68
27	7	322	CHL	CMD-C2D-C3D	2.21	129.09	124.68
27	A	850	CHL	C1C-CHC-C4B	2.21	123.96	116.07
27	3	309	CHL	C1C-CHC-C4B	2.21	123.96	116.07
27	5	314	CHL	CMD-C2D-C3D	2.21	129.09	124.68
27	b	309	CHL	CED-O2D-CGD	2.21	120.92	115.92
27	L	304	CHL	CMA-C3A-C4A	-2.21	109.86	114.61
27	B	840	CHL	CMC-C2C-C1C	2.21	128.70	124.73
27	6	318	CHL	CMB-C2B-C3B	2.20	129.09	124.68
27	5	321	CHL	C1C-CHC-C4B	2.20	123.96	116.07
24	b	302	LHG	C27-C26-C25	-2.20	103.22	114.37
27	5	321	CHL	CMD-C2D-C3D	2.20	129.09	124.68
27	B	819	CHL	C1-O2A-CGA	2.20	121.98	116.65
27	5	325	CHL	O2A-CGA-CBA	2.20	120.47	112.14
22	I	801	BCR	C15-C16-C17	-2.20	119.01	123.52
27	8	311	CHL	CMC-C2C-C1C	2.20	128.70	124.73
27	B	845	CHL	C4C-C3C-C2C	-2.20	104.67	113.37
27	6	315	CHL	C5-C3-C4	2.20	119.66	114.59
27	7	313	CHL	CMC-C2C-C1C	2.20	128.70	124.73
27	6	308	CHL	C4C-CHD-C1D	2.20	123.95	116.07
27	A	822	CHL	O2A-CGA-O1A	-2.20	118.12	123.63
27	4	305	CHL	CMD-C2D-C3D	2.20	129.08	124.68
22	A	806	BCR	C15-C16-C17	-2.20	119.02	123.52
22	B	807	BCR	C16-C15-C14	-2.20	119.02	123.52
27	6	312	CHL	CMA-C3A-C4A	-2.20	109.87	114.61
27	6	310	CHL	CED-O2D-CGD	2.20	120.91	115.92
27	5	315	CHL	C4C-C3C-C2C	-2.20	104.68	113.37
27	3	310	CHL	CMD-C2D-C3D	2.20	129.08	124.68
29	b	301	LUT	C17-C1-C6	-2.20	106.79	110.24
27	4	308	CHL	C4-C3-C5	2.20	119.05	115.23
27	6	309	CHL	CBC-CAC-C3C	-2.20	109.72	112.87
27	5	320	CHL	CMA-C3A-C4A	-2.20	109.88	114.61
27	A	816	CHL	C1C-CHC-C4B	2.20	123.93	116.07
27	A	838	CHL	CMD-C2D-C3D	2.20	129.07	124.68
27	5	311	CHL	O2A-CGA-CBA	2.20	120.44	112.14
27	A	851	CHL	CMA-C3A-C4A	-2.20	109.88	114.61
24	8	305	LHG	C18-C17-C16	-2.20	103.27	114.37
27	a	309	CHL	C1C-CHC-C4B	2.20	123.93	116.07
27	3	309	CHL	CBC-CAC-C3C	-2.20	109.73	112.87
27	5	316	CHL	O1D-CGD-CBD	-2.20	121.39	124.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	K	202	BCR	C11-C10-C9	-2.20	124.20	127.28
27	B	817	CHL	CMD-C2D-C3D	2.20	129.07	124.68
27	7	311	CHL	C4-C3-C5	2.19	119.04	115.23
27	3	320	CHL	CED-O2D-CGD	2.19	120.89	115.92
27	7	322	CHL	C1C-CHC-C4B	2.19	123.92	116.07
27	5	314	CHL	CMB-C2B-C3B	2.19	129.07	124.68
27	B	827	CHL	C1C-CHC-C4B	2.19	123.92	116.07
27	5	320	CHL	CMC-C2C-C1C	2.19	128.68	124.73
27	4	310	CHL	C1C-CHC-C4B	2.19	123.91	116.07
27	5	311	CHL	C4C-C3C-C2C	-2.19	104.71	113.37
27	3	315	CHL	C1-O2A-CGA	2.19	121.95	116.65
27	A	847	CHL	CMD-C2D-C3D	2.19	129.06	124.68
27	B	823	CHL	CMD-C2D-C3D	2.19	129.06	124.68
27	A	850	CHL	CMC-C2C-C1C	2.19	128.67	124.73
27	5	308	CHL	CED-O2D-CGD	2.19	120.88	115.92
27	3	308	CHL	C4C-C3C-C2C	-2.19	104.73	113.37
27	3	312	CHL	CED-O2D-CGD	2.19	120.88	115.92
27	5	315	CHL	C1C-CHC-C4B	2.19	123.89	116.07
27	B	830	CHL	CBC-CAC-C3C	-2.19	109.74	112.87
27	3	308	CHL	CMA-C3A-C4A	-2.19	109.90	114.61
27	a	319	CHL	CMB-C2B-C3B	2.19	129.05	124.68
27	A	821	CHL	CMD-C2D-C3D	2.19	129.05	124.68
27	b	308	CHL	C4D-CHA-CBD	-2.19	106.76	108.97
27	A	843	CHL	C4-C3-C2	-2.18	118.02	123.63
30	J	101	LMG	O3-C3-C2	-2.18	105.23	110.38
27	A	851	CHL	CMC-C2C-C1C	2.18	128.66	124.73
27	B	825	CHL	C1C-CHC-C4B	2.18	123.88	116.07
27	4	310	CHL	CMB-C2B-C3B	2.18	129.04	124.68
27	A	818	CHL	C1-O2A-CGA	2.18	121.93	116.65
30	J	104	LMG	O3-C3-C2	-2.18	105.23	110.38
27	6	318	CHL	CMA-C3A-C4A	-2.18	109.91	114.61
27	8	311	CHL	CMD-C2D-C3D	2.18	129.04	124.68
27	b	312	CHL	CMB-C2B-C3B	2.18	129.04	124.68
27	7	319	CHL	C1C-CHC-C4B	2.18	123.87	116.07
27	F	309	CHL	CMA-C3A-C4A	-2.18	109.91	114.61
24	8	305	LHG	C27-C26-C25	-2.18	103.35	114.37
27	A	840	CHL	CBC-CAC-C3C	-2.18	109.75	112.87
27	a	313	CHL	C4-C3-C5	2.18	119.01	115.23
27	7	319	CHL	O1D-CGD-CBD	-2.18	121.42	124.72
27	a	310	CHL	CBC-CAC-C3C	-2.18	109.75	112.87
27	b	312	CHL	CMC-C2C-C1C	2.18	128.66	124.73
27	B	817	CHL	C11-C12-C13	-2.18	108.72	115.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	6	317	CHL	CMD-C2D-C3D	2.18	129.04	124.68
22	A	804	BCR	C15-C16-C17	-2.18	119.06	123.52
27	6	315	CHL	C1C-CHC-C4B	2.18	123.86	116.07
27	B	813	CHL	CMD-C2D-C3D	2.18	129.03	124.68
27	A	825	CHL	CMC-C2C-C1C	2.18	128.65	124.73
27	a	313	CHL	CMC-C2C-C1C	2.18	128.65	124.73
27	3	319	CHL	CMB-C2B-C3B	2.18	129.03	124.68
27	5	307	CHL	C4-C3-C5	2.18	119.01	115.23
27	7	313	CHL	O2A-CGA-CBA	2.18	118.47	111.83
27	B	826	CHL	C5-C3-C4	2.18	119.60	114.59
27	3	309	CHL	O2A-CGA-CBA	2.18	120.36	112.14
27	3	315	CHL	CMB-C2B-C3B	2.18	129.03	124.68
27	a	319	CHL	C5-C3-C4	2.18	119.60	114.59
22	A	807	BCR	C15-C16-C17	-2.18	119.07	123.52
27	b	314	CHL	CMC-C2C-C1C	2.18	128.65	124.73
27	6	307	CHL	C1-O2A-CGA	2.18	121.92	116.65
27	B	843	CHL	CMC-C2C-C1C	2.18	128.65	124.73
27	3	318	CHL	C1-C2-C3	-2.17	122.63	126.20
27	4	313	CHL	CMA-C3A-C4A	-2.17	109.93	114.61
27	A	856	CHL	CED-O2D-CGD	2.17	120.85	115.92
22	B	802	BCR	C15-C14-C13	-2.17	124.23	127.28
27	A	837	CHL	CED-O2D-CGD	2.17	120.84	115.92
27	3	313	CHL	CMD-C2D-C3D	2.17	129.03	124.68
27	4	309	CHL	CMD-C2D-C3D	2.17	129.03	124.68
27	b	306	CHL	CMD-C2D-C3D	2.17	129.02	124.68
24	7	302	LHG	C18-C17-C16	-2.17	103.39	114.37
27	7	318	CHL	O2A-CGA-CBA	2.17	118.45	111.83
27	B	827	CHL	CMD-C2D-C3D	2.17	129.02	124.68
27	4	309	CHL	CMA-C3A-C4A	-2.17	109.94	114.61
27	6	316	CHL	CMA-C3A-C4A	-2.17	109.94	114.61
29	5	303	LUT	C8-C7-C6	-2.17	121.20	127.00
27	a	309	CHL	CMD-C2D-C3D	2.17	129.02	124.68
27	4	315	CHL	CMD-C2D-C3D	2.17	129.02	124.68
27	a	312	CHL	CMB-C2B-C3B	2.17	129.02	124.68
27	b	309	CHL	CBC-CAC-C3C	-2.17	109.77	112.87
27	a	314	CHL	CMC-C2C-C1C	2.17	128.63	124.73
22	A	806	BCR	C15-C14-C13	-2.17	124.24	127.28
27	B	833	CHL	O2A-CGA-CBA	2.17	118.44	111.83
27	b	313	CHL	O2A-CGA-CBA	2.17	120.33	112.14
27	A	839	CHL	CMB-C2B-C3B	2.17	129.01	124.68
27	b	313	CHL	CMA-C3A-C4A	-2.17	109.94	114.61
27	A	817	CHL	C4C-CHD-C1D	2.17	123.82	116.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	b	305	CHL	C1C-CHC-C4B	2.17	123.82	116.07
27	B	842	CHL	C4C-C3C-C2C	-2.17	104.82	113.37
27	a	317	CHL	CMA-C3A-C4A	-2.17	109.95	114.61
27	4	310	CHL	O2A-CGA-CBA	2.16	120.32	112.14
22	7	303	BCR	C29-C30-C25	2.16	113.58	110.44
27	5	325	CHL	CMB-C2B-C3B	2.16	129.01	124.68
23	A	809	LMT	C3'-C4'-C5'	-2.16	106.13	110.93
22	J	102	BCR	C15-C16-C17	-2.16	119.09	123.52
27	8	311	CHL	CMB-C2B-C3B	2.16	129.01	124.68
27	B	826	CHL	CMA-C3A-C4A	-2.16	109.95	114.61
27	6	305	CHL	O1D-CGD-CBD	-2.16	121.44	124.72
27	F	309	CHL	CMB-C2B-C3B	2.16	129.00	124.68
27	3	309	CHL	CMD-C2D-C3D	2.16	129.00	124.68
27	6	311	CHL	CMA-C3A-C4A	-2.16	109.95	114.61
27	A	826	CHL	CMC-C2C-C1C	2.16	128.62	124.73
22	7	303	BCR	C15-C14-C13	-2.16	124.25	127.28
27	A	835	CHL	CMB-C2B-C3B	2.16	129.00	124.68
27	6	317	CHL	CMA-C3A-C4A	-2.16	109.95	114.61
27	8	317	CHL	CMB-C2B-C3B	2.16	129.00	124.68
27	B	833	CHL	CMC-C2C-C1C	2.16	128.62	124.73
27	A	847	CHL	O2A-CGA-CBA	2.16	118.42	111.83
27	7	323	CHL	CMB-C2B-C3B	2.16	129.00	124.68
24	7	302	LHG	C27-C26-C25	-2.16	103.45	114.37
27	7	323	CHL	O1D-CGD-CBD	-2.16	121.45	124.72
27	b	309	CHL	O2A-CGA-CBA	2.16	120.30	112.14
27	7	312	CHL	CED-O2D-CGD	2.16	120.81	115.92
27	5	318	CHL	O2A-CGA-CBA	2.16	118.41	111.83
27	7	314	CHL	CMC-C2C-C1C	2.16	128.62	124.73
27	A	857	CHL	CMA-C3A-C4A	-2.16	109.96	114.61
27	7	313	CHL	CMD-C2D-C3D	2.16	128.99	124.68
27	B	832	CHL	O2A-CGA-O1A	-2.16	118.23	123.63
27	B	830	CHL	C6-C5-C3	-2.16	108.22	113.47
27	5	316	CHL	C1-O2A-CGA	2.16	121.87	116.65
23	F	302	LMT	O5B-C5B-C4B	2.16	113.58	109.70
27	A	849	CHL	C1-C2-C3	-2.16	122.67	126.20
27	A	858	CHL	CED-O2D-CGD	2.16	120.81	115.92
24	5	324	LHG	C27-C26-C25	-2.16	103.47	114.37
27	A	845	CHL	C1C-CHC-C4B	2.15	123.78	116.07
27	5	317	CHL	CMA-C3A-C4A	-2.15	109.97	114.61
27	5	322	CHL	C1C-CHC-C4B	2.15	123.78	116.07
27	8	320	CHL	CMB-C2B-C3B	2.15	128.99	124.68
23	5	326	LMT	C3'-C4'-C5'	-2.15	106.16	110.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	F	309	CHL	C5-C3-C4	2.15	119.54	114.59
23	5	306	LMT	C3B-C4B-C5B	-2.15	106.33	110.23
29	8	304	LUT	C1-C6-C7	-2.15	109.81	115.65
27	A	826	CHL	CAA-C2A-C3A	-2.15	107.18	113.00
27	5	308	CHL	CMA-C3A-C4A	-2.15	109.97	114.61
22	3	303	BCR	C15-C16-C17	-2.15	119.12	123.52
27	A	847	CHL	C1-O2A-CGA	2.15	121.86	116.65
27	5	318	CHL	C1-O2A-CGA	2.15	121.86	116.65
27	3	309	CHL	CED-O2D-CGD	2.15	120.80	115.92
27	6	314	CHL	CMC-C2C-C1C	2.15	128.60	124.73
27	4	309	CHL	C1C-CHC-C4B	2.15	123.77	116.07
27	b	308	CHL	O1D-CGD-CBD	-2.15	121.46	124.72
27	B	832	CHL	O2A-CGA-CBA	2.15	118.39	111.83
28	7	307	DGD	CBB-CAB-C9B	-2.15	103.50	114.37
27	A	833	CHL	OBD-CAD-C3D	2.15	131.25	127.89
27	A	833	CHL	C1C-CHC-C4B	2.15	123.76	116.07
27	6	312	CHL	C1C-CHC-C4B	2.15	123.76	116.07
27	B	838	CHL	CBC-CAC-C3C	-2.15	109.80	112.87
27	4	317	CHL	CMA-C3A-C4A	-2.15	109.98	114.61
27	3	314	CHL	C1C-CHC-C4B	2.15	123.75	116.07
27	4	310	CHL	CED-O2D-CGD	2.15	120.79	115.92
27	b	307	CHL	CED-O2D-CGD	2.15	120.79	115.92
27	7	313	CHL	C1-O2A-CGA	2.15	121.85	116.65
27	B	842	CHL	CMD-C2D-C3D	2.15	128.97	124.68
27	a	320	CHL	CMB-C2B-C3B	2.15	128.97	124.68
28	7	307	DGD	C5B-C4B-C3B	-2.15	103.51	114.37
22	J	102	BCR	C28-C27-C26	-2.15	110.23	114.06
27	7	318	CHL	C1-C2-C3	-2.15	122.68	126.20
27	A	842	CHL	CBC-CAC-C3C	-2.15	109.80	112.87
27	A	822	CHL	CMD-C2D-C3D	2.15	128.97	124.68
27	4	308	CHL	CMB-C2B-C3B	2.15	128.97	124.68
27	a	319	CHL	O2A-CGA-O1A	-2.15	118.26	123.63
22	M	102	BCR	C33-C5-C6	-2.15	122.14	124.48
27	4	312	CHL	CMA-C3A-C4A	-2.15	109.99	114.61
27	4	319	CHL	CMA-C3A-C4A	-2.15	109.99	114.61
22	L	301	BCR	C15-C14-C13	-2.14	124.27	127.28
27	B	828	CHL	CMB-C2B-C3B	2.14	128.97	124.68
27	B	847	CHL	CMB-C2B-C3B	2.14	128.97	124.68
27	4	318	CHL	CBC-CAC-C3C	-2.14	109.80	112.87
27	5	317	CHL	CBC-CAC-C3C	-2.14	109.80	112.87
27	6	305	CHL	O2A-CGA-CBA	2.14	120.23	112.14
27	6	306	CHL	CED-O2D-CGD	2.14	120.77	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	837	CHL	CBC-CAC-C3C	-2.14	109.81	112.87
27	6	317	CHL	O2A-CGA-CBA	2.14	120.23	112.14
27	8	312	CHL	C1-C2-C3	-2.14	122.69	126.20
27	b	313	CHL	CED-O2D-CGD	2.14	120.77	115.92
30	J	104	LMG	O7-C10-O9	-2.14	118.70	123.70
27	7	319	CHL	CMB-C2B-C3B	2.14	128.96	124.68
27	b	306	CHL	O2A-CGA-CBA	2.14	120.22	112.14
27	6	320	CHL	CMD-C2D-C3D	2.14	128.96	124.68
27	B	845	CHL	CMA-C3A-C4A	-2.14	110.00	114.61
27	8	322	CHL	C5-C3-C4	2.14	119.51	114.59
27	4	316	CHL	CMA-C3A-C4A	-2.14	110.00	114.61
27	5	322	CHL	O2A-CGA-CBA	2.14	120.21	112.14
27	5	307	CHL	O2A-CGA-O1A	-2.14	118.28	123.63
27	A	840	CHL	CMA-C3A-C4A	-2.14	110.01	114.61
27	5	320	CHL	CBC-CAC-C3C	-2.14	109.81	112.87
27	A	835	CHL	CMD-C2D-C3D	2.14	128.95	124.68
27	a	311	CHL	C4D-CHA-CBD	-2.14	106.81	108.97
27	J	106	CHL	CMC-C2C-C1C	2.14	128.58	124.73
27	5	312	CHL	CMC-C2C-C1C	2.14	128.58	124.73
27	3	313	CHL	CMB-C2B-C3B	2.13	128.95	124.68
27	B	828	CHL	CED-O2D-CGD	2.13	120.76	115.92
27	b	313	CHL	CMB-C2B-C3B	2.13	128.95	124.68
32	5	305	PTY	C6-O7-C8	2.13	122.90	117.80
22	B	806	BCR	C21-C20-C19	-2.13	117.02	123.20
27	K	206	CHL	O2A-CGA-CBA	2.13	120.20	112.14
27	A	858	CHL	CMB-C2B-C3B	2.13	128.95	124.68
27	5	321	CHL	O2A-CGA-CBA	2.13	120.20	112.14
27	A	848	CHL	CMC-C2C-C1C	2.13	128.57	124.73
27	b	316	CHL	CMA-C3A-C4A	-2.13	110.02	114.61
27	b	305	CHL	C1A-CHA-C4D	-2.13	115.42	118.98
27	6	314	CHL	CMB-C2B-C3B	2.13	128.94	124.68
27	b	316	CHL	CMD-C2D-C3D	2.13	128.94	124.68
27	7	318	CHL	C1-O2A-CGA	2.13	121.81	116.65
27	B	830	CHL	CMA-C3A-C4A	-2.13	110.02	114.61
27	K	206	CHL	CMD-C2D-C3D	2.13	128.94	124.68
27	B	825	CHL	C1-O2A-CGA	2.13	121.81	116.65
27	B	850	CHL	C1-O2A-CGA	2.13	121.81	116.65
27	b	309	CHL	CMB-C2B-C3B	2.13	128.94	124.68
27	b	316	CHL	CMB-C2B-C3B	2.13	128.94	124.68
27	A	834	CHL	CED-O2D-CGD	2.13	120.75	115.92
27	A	851	CHL	O2A-CGA-CBA	2.13	120.19	112.14
27	3	316	CHL	CMA-C3A-C4A	-2.13	110.02	114.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	6	314	CHL	CBC-CAC-C3C	-2.13	109.82	112.87
27	A	827	CHL	CBC-CAC-C3C	-2.13	109.82	112.87
27	B	823	CHL	CMB-C2B-C3B	2.13	128.94	124.68
22	L	301	BCR	C29-C30-C25	2.13	113.53	110.44
27	7	319	CHL	C4-C3-C2	-2.13	118.16	123.63
27	A	823	CHL	C11-C10-C8	-2.13	108.89	115.97
27	B	827	CHL	C4C-C3C-C2C	-2.13	104.96	113.37
27	b	310	CHL	CMC-C2C-C1C	2.13	128.56	124.73
27	B	820	CHL	CMD-C2D-C3D	2.13	128.94	124.68
27	b	305	CHL	CMC-C2C-C1C	2.13	128.56	124.73
27	6	315	CHL	CMB-C2B-C3B	2.13	128.93	124.68
27	b	304	CHL	CMB-C2B-C3B	2.13	128.93	124.68
27	b	311	CHL	CMD-C2D-C3D	2.13	128.93	124.68
27	A	857	CHL	O2A-CGA-CBA	2.13	120.17	112.14
27	3	316	CHL	C1C-CHC-C4B	2.13	123.68	116.07
27	7	315	CHL	CMD-C2D-C3D	2.13	128.93	124.68
27	b	309	CHL	CMD-C2D-C3D	2.13	128.93	124.68
27	8	320	CHL	CMC-C2C-C1C	2.13	128.56	124.73
27	4	320	CHL	CMD-C2D-C3D	2.13	128.93	124.68
22	J	102	BCR	C27-C26-C25	2.13	125.58	122.70
23	5	326	LMT	C1'-O5'-C5'	-2.12	109.57	113.72
27	6	313	CHL	CED-O2D-CGD	2.12	120.73	115.92
27	A	852	CHL	CMD-C2D-C3D	2.12	128.93	124.68
27	b	316	CHL	CED-O2D-CGD	2.12	120.73	115.92
27	b	305	CHL	CMA-C3A-C4A	-2.12	110.04	114.61
27	3	320	CHL	C4-C3-C5	2.12	118.91	115.23
27	8	321	CHL	CMB-C2B-C3B	2.12	128.92	124.68
27	4	314	CHL	C4C-C3C-C2C	-2.12	104.99	113.37
27	5	315	CHL	CMB-C2B-C3B	2.12	128.92	124.68
27	A	836	CHL	CED-O2D-CGD	2.12	120.73	115.92
22	8	302	BCR	C7-C8-C9	-2.12	123.10	126.23
27	4	305	CHL	CBC-CAC-C3C	-2.12	109.84	112.87
27	A	836	CHL	C1-C2-C3	-2.12	122.72	126.20
27	7	324	CHL	CMB-C2B-C3B	2.12	128.92	124.68
27	6	314	CHL	O2A-CGA-CBA	2.12	120.14	112.14
27	b	307	CHL	CMD-C2D-C3D	2.12	128.91	124.68
27	A	818	CHL	CMC-C2C-C1C	2.12	128.54	124.73
27	6	310	CHL	CMD-C2D-C3D	2.12	128.91	124.68
27	a	319	CHL	CED-O2D-CGD	2.12	120.72	115.92
27	A	852	CHL	C1C-CHC-C4B	2.12	123.64	116.07
27	B	838	CHL	CMC-C2C-C1C	2.12	128.54	124.73
27	b	314	CHL	CMD-C2D-C3D	2.12	128.91	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	825	CHL	CBC-CAC-C3C	-2.12	109.84	112.87
27	A	834	CHL	C1C-CHC-C4B	2.12	123.64	116.07
27	3	316	CHL	CMB-C2B-C3B	2.12	128.91	124.68
28	B	809	DGD	O3G-C3G-C2G	-2.11	105.67	110.82
23	5	306	LMT	C1'-O5'-C5'	-2.11	109.59	113.72
22	L	301	BCR	C11-C10-C9	-2.11	124.31	127.28
27	K	207	CHL	CMD-C2D-C3D	2.11	128.91	124.68
27	b	307	CHL	CMB-C2B-C3B	2.11	128.91	124.68
27	8	311	CHL	O2A-CGA-CBA	2.11	120.12	112.14
30	7	301	LMG	O7-C10-O9	-2.11	118.77	123.70
27	K	205	CHL	O2A-CGA-CBA	2.11	120.12	112.14
27	A	852	CHL	CBA-CAA-C2A	-2.11	107.56	113.78
27	B	838	CHL	CMD-C2D-C3D	2.11	128.90	124.68
27	3	321	CHL	CMC-C2C-C1C	2.11	128.53	124.73
27	a	308	CHL	CMA-C3A-C4A	-2.11	110.07	114.61
22	K	203	BCR	C15-C16-C17	-2.11	119.20	123.52
27	B	842	CHL	C1C-CHC-C4B	2.11	123.61	116.07
27	3	309	CHL	CMC-C2C-C1C	2.11	128.53	124.73
27	A	848	CHL	CMB-C2B-C3B	2.11	128.89	124.68
23	F	302	LMT	C1'-O5'-C5'	-2.11	109.61	113.72
27	B	844	CHL	CMC-C2C-C1C	2.11	128.52	124.73
28	B	809	DGD	O2D-C2D-C1D	-2.11	105.06	110.08
27	A	856	CHL	CMD-C2D-C3D	2.11	128.89	124.68
27	3	309	CHL	CMA-C3A-C4A	-2.11	110.08	114.61
27	7	312	CHL	CMA-C3A-C4A	-2.10	110.08	114.61
27	7	317	CHL	CMC-C2C-C1C	2.10	128.52	124.73
27	A	856	CHL	CMA-C3A-C4A	-2.10	110.08	114.61
27	6	312	CHL	CMD-C2D-C3D	2.10	128.89	124.68
27	A	833	CHL	O2A-CGA-CBA	2.10	118.25	111.83
27	b	305	CHL	O2A-CGA-CBA	2.10	120.08	112.14
27	A	852	CHL	CMC-C2C-C1C	2.10	128.52	124.73
27	6	319	CHL	C4C-CHD-C1D	2.10	123.59	116.07
27	a	311	CHL	CED-O2D-CGD	2.10	120.68	115.92
27	A	854	CHL	CED-O2D-CGD	2.10	120.68	115.92
27	B	839	CHL	CED-O2D-CGD	2.10	120.68	115.92
27	7	322	CHL	CMA-C3A-C4A	-2.10	110.08	114.61
27	5	323	CHL	CMC-C2C-C1C	2.10	128.51	124.73
29	b	303	LUT	C28-C29-C30	2.10	122.31	119.01
27	a	315	CHL	CMD-C2D-C3D	2.10	128.88	124.68
27	b	307	CHL	CMC-C2C-C1C	2.10	128.51	124.73
27	B	819	CHL	CMD-C2D-C3D	2.10	128.88	124.68
27	B	830	CHL	CMB-C2B-C3B	2.10	128.88	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	826	CHL	C1-C2-C3	-2.10	122.76	126.20
27	5	311	CHL	CMD-C2D-C3D	2.10	128.88	124.68
27	5	320	CHL	O2A-CGA-CBA	2.10	120.07	112.14
27	a	320	CHL	CMD-C2D-C3D	2.10	128.88	124.68
30	a	301	LMG	O7-C10-O9	-2.10	118.80	123.70
27	B	821	CHL	C1-C2-C3	-2.10	122.76	126.20
27	4	320	CHL	C5-C3-C4	2.10	119.41	114.59
22	F	301	BCR	C16-C15-C14	-2.10	119.23	123.52
27	8	326	CHL	O2A-CGA-CBA	2.10	120.06	112.14
27	A	845	CHL	O2A-CGA-CBA	2.09	118.22	111.83
27	B	829	CHL	CMA-C3A-C4A	-2.09	110.10	114.61
27	4	310	CHL	CMA-C3A-C4A	-2.09	110.10	114.61
27	A	853	CHL	CMB-C2B-C3B	2.09	128.87	124.68
24	A	810	LHG	C27-C26-C25	-2.09	103.79	114.37
27	a	317	CHL	C6-C5-C3	-2.09	108.37	113.47
27	4	312	CHL	CMD-C2D-C3D	2.09	128.86	124.68
28	7	307	DGD	CAB-C9B-C8B	-2.09	103.80	114.37
27	B	815	CHL	CED-O2D-CGD	2.09	120.66	115.92
27	A	855	CHL	C6-C5-C3	-2.09	108.38	113.47
27	A	858	CHL	CMC-C2C-C1C	2.09	128.49	124.73
27	B	815	CHL	C1-O2A-CGA	2.09	121.71	116.65
27	7	320	CHL	CMB-C2B-C3B	2.09	128.86	124.68
27	8	317	CHL	CED-O2D-CGD	2.09	120.65	115.92
27	a	315	CHL	O2A-CGA-O1A	-2.09	118.41	123.63
27	6	318	CHL	O2A-CGA-CBA	2.09	120.03	112.14
27	4	318	CHL	CED-O2D-CGD	2.09	120.65	115.92
27	B	838	CHL	O2A-CGA-CBA	2.09	118.20	111.83
27	5	320	CHL	CED-O2D-CGD	2.09	120.65	115.92
27	3	313	CHL	C4-C3-C5	2.09	118.85	115.23
20	A	801	PQN	C11-C3-C4	-2.09	116.38	118.58
27	a	315	CHL	CAA-CBA-CGA	-2.09	107.29	113.21
27	K	204	CHL	CMB-C2B-C3B	2.09	128.85	124.68
27	b	310	CHL	CMD-C2D-C3D	2.09	128.85	124.68
27	K	204	CHL	CMA-C3A-C4A	-2.09	110.12	114.61
22	A	805	BCR	C15-C14-C13	-2.08	124.35	127.28
27	a	315	CHL	CMB-C2B-C3B	2.08	128.85	124.68
27	4	318	CHL	CMB-C2B-C3B	2.08	128.85	124.68
22	F	301	BCR	C7-C8-C9	-2.08	123.15	126.23
27	B	834	CHL	OBD-CAD-C3D	-2.08	124.64	127.89
27	4	309	CHL	O2A-CGA-CBA	2.08	120.00	112.14
27	A	844	CHL	C1C-CHC-C4B	2.08	123.52	116.07
24	7	306	LHG	C27-C26-C25	-2.08	103.85	114.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	814	CHL	CMD-C2D-C3D	2.08	128.84	124.68
27	3	311	CHL	CMD-C2D-C3D	2.08	128.84	124.68
27	A	850	CHL	CED-O2D-CGD	2.08	120.64	115.92
27	8	318	CHL	CMB-C2B-C3B	2.08	128.84	124.68
27	A	818	CHL	CBC-CAC-C3C	-2.08	109.89	112.87
23	A	808	LMT	O5B-C5B-C4B	2.08	113.45	109.70
27	b	306	CHL	CMC-C2C-C1C	2.08	128.48	124.73
27	b	304	CHL	C1C-CHC-C4B	2.08	123.51	116.07
27	A	851	CHL	CMD-C2D-C3D	2.08	128.84	124.68
27	K	206	CHL	CMB-C2B-C3B	2.08	128.84	124.68
27	b	304	CHL	CED-O2D-CGD	2.08	120.63	115.92
22	B	802	BCR	C16-C15-C14	-2.08	119.27	123.52
29	3	305	LUT	C35-C15-C14	-2.08	119.27	123.52
27	4	313	CHL	O2A-CGA-CBA	2.08	120.56	114.00
27	B	811	CHL	O2A-CGA-CBA	2.08	118.16	111.83
27	a	317	CHL	CED-O2D-CGD	2.07	120.62	115.92
27	B	833	CHL	C1-C2-C3	-2.07	122.80	126.20
27	B	819	CHL	CBC-CAC-C3C	-2.07	109.90	112.87
27	A	843	CHL	CED-O2D-CGD	2.07	120.62	115.92
27	3	321	CHL	CED-O2D-CGD	2.07	120.62	115.92
27	K	207	CHL	O2A-CGA-CBA	2.07	119.97	112.14
27	L	304	CHL	CMD-C2D-C3D	2.07	128.82	124.68
27	6	319	CHL	CAC-C3C-C4C	2.07	129.36	124.03
27	4	311	CHL	CED-O2D-CGD	2.07	120.61	115.92
27	A	843	CHL	C4D-CHA-CBD	2.07	111.05	108.97
27	8	318	CHL	O2A-CGA-CBA	2.07	119.96	112.14
27	B	847	CHL	CBC-CAC-C3C	-2.07	109.91	112.87
29	b	301	LUT	C1-C6-C7	-2.07	110.03	115.65
27	a	312	CHL	CMC-C2C-C1C	2.07	128.46	124.73
27	8	319	CHL	CED-O2D-CGD	2.07	120.61	115.92
27	A	825	CHL	CED-O2D-CGD	2.07	120.61	115.92
22	L	301	BCR	C2-C1-C6	2.07	113.44	110.44
29	6	302	LUT	C30-C31-C32	-2.07	117.21	123.20
22	A	806	BCR	C27-C26-C25	2.07	125.50	122.70
27	a	311	CHL	C1A-CHA-C4D	-2.07	115.53	118.98
27	8	326	CHL	CED-O2D-CGD	2.07	120.61	115.92
27	7	322	CHL	CED-O2D-CGD	2.07	120.60	115.92
27	L	303	CHL	C6-C5-C3	-2.07	108.44	113.47
27	B	832	CHL	CMC-C2C-C1C	2.07	128.45	124.73
27	8	314	CHL	CED-O2D-CGD	2.06	120.60	115.92
27	4	306	CHL	CMB-C2B-C3B	2.06	128.81	124.68
27	A	839	CHL	CMC-C2C-C1C	2.06	128.45	124.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	b	308	CHL	C4D-ND-C1D	-2.06	103.65	105.22
27	6	313	CHL	CMD-C2D-C3D	2.06	128.80	124.68
27	5	312	CHL	CMD-C2D-C3D	2.06	128.80	124.68
27	A	841	CHL	OBD-CAD-C3D	2.06	131.11	127.89
27	b	314	CHL	CMA-C3A-C4A	-2.06	110.17	114.61
27	B	847	CHL	CMD-C2D-C3D	2.06	128.80	124.68
27	b	312	CHL	CED-O2D-CGD	2.06	120.59	115.92
27	b	312	CHL	CMA-C3A-C4A	-2.06	110.17	114.61
27	6	312	CHL	CED-O2D-CGD	2.06	120.59	115.92
27	B	822	CHL	CMD-C2D-C3D	2.06	128.80	124.68
27	4	305	CHL	O2A-CGA-CBA	2.06	120.51	114.00
27	K	207	CHL	CMB-C2B-C3B	2.06	128.80	124.68
27	8	325	CHL	C6-C5-C3	-2.06	108.45	113.47
27	8	323	CHL	CMA-C3A-C4A	-2.06	110.18	114.61
27	5	319	CHL	CMB-C2B-C3B	2.06	128.79	124.68
27	A	816	CHL	CED-O2D-CGD	2.06	120.58	115.92
22	K	202	BCR	C33-C5-C6	-2.06	122.24	124.48
27	4	311	CHL	CMD-C2D-C3D	2.06	128.79	124.68
27	5	322	CHL	CMB-C2B-C3B	2.06	128.79	124.68
27	A	831	CHL	C3C-C4C-NC	2.06	119.68	114.65
27	5	308	CHL	O2A-CGA-CBA	2.06	119.91	112.14
27	a	318	CHL	C1C-CHC-C4B	2.06	123.42	116.07
27	b	307	CHL	C4-C3-C5	2.05	118.80	115.23
27	4	309	CHL	CMB-C2B-C3B	2.05	128.79	124.68
27	4	313	CHL	C4C-CHD-C1D	2.05	123.42	116.07
27	F	308	CHL	CMB-C2B-C3B	2.05	128.79	124.68
27	b	305	CHL	CMD-C2D-C3D	2.05	128.79	124.68
27	b	311	CHL	CMB-C2B-C3B	2.05	128.79	124.68
28	B	809	DGD	O3E-C3E-C2E	-2.05	105.53	110.38
30	J	101	LMG	O2-C2-C1	-2.05	105.18	110.08
27	B	838	CHL	CED-O2D-CGD	2.05	120.57	115.92
27	6	305	CHL	CBC-CAC-C3C	-2.05	109.94	112.87
27	B	837	CHL	CMC-C2C-C1C	2.05	128.42	124.73
27	4	305	CHL	CMA-C3A-C4A	-2.05	110.19	114.61
27	6	305	CHL	CMD-C2D-C3D	2.05	128.78	124.68
27	5	316	CHL	CAC-C3C-C4C	2.05	129.30	124.03
27	B	851	CHL	CED-O2D-CGD	2.05	120.56	115.92
27	4	320	CHL	CMB-C2B-C3B	2.05	128.78	124.68
27	K	204	CHL	C5-C3-C4	2.05	119.30	114.59
27	A	841	CHL	O2A-CGA-CBA	2.05	118.08	111.83
27	B	824	CHL	CED-O2D-CGD	2.05	120.56	115.92
23	F	302	LMT	C3'-C4'-C5'	-2.05	106.39	110.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	805	BCR	C29-C30-C25	2.05	113.41	110.44
27	B	847	CHL	C1-O2A-CGA	2.05	121.61	116.65
27	5	309	CHL	CMC-C2C-C1C	2.05	128.42	124.73
29	F	303	LUT	C16-C1-C6	-2.05	107.03	110.24
27	B	821	CHL	CED-O2D-CGD	2.05	120.56	115.92
27	3	318	CHL	CMA-C3A-C4A	-2.05	110.20	114.61
27	a	313	CHL	CBC-CAC-C3C	-2.05	109.94	112.87
27	4	314	CHL	CMD-C2D-C3D	2.04	128.77	124.68
27	4	319	CHL	CMD-C2D-C3D	2.04	128.77	124.68
27	5	318	CHL	CMD-C2D-C3D	2.04	128.77	124.68
27	3	308	CHL	O2A-CGA-O1A	-2.04	118.52	123.63
23	F	302	LMT	O5B-C5B-C6B	2.04	111.50	106.44
27	a	316	CHL	C1C-CHC-C4B	2.04	123.38	116.07
27	8	316	CHL	CMD-C2D-C3D	2.04	128.77	124.68
27	3	316	CHL	CBC-CAC-C3C	-2.04	109.95	112.87
27	5	315	CHL	CED-O2D-CGD	2.04	120.55	115.92
27	7	317	CHL	CED-O2D-CGD	2.04	120.55	115.92
27	B	840	CHL	CBC-CAC-C3C	-2.04	109.95	112.87
22	I	801	BCR	C16-C15-C14	-2.04	119.34	123.52
28	B	809	DGD	C5B-C4B-C3B	-2.04	104.04	114.37
29	J	103	LUT	C7-C8-C9	-2.04	123.21	126.23
27	5	318	CHL	C1-C2-C3	-2.04	122.85	126.20
27	4	305	CHL	CMB-C2B-C3B	2.04	128.76	124.68
27	b	313	CHL	CMC-C2C-C1C	2.04	128.41	124.73
22	B	805	BCR	C11-C10-C9	-2.04	124.41	127.28
27	A	849	CHL	CMD-C2D-C3D	2.04	128.76	124.68
27	8	314	CHL	O2A-CGA-O1A	-2.04	118.52	123.63
27	5	323	CHL	C1C-CHC-C4B	2.04	123.37	116.07
27	a	311	CHL	C1-O2A-CGA	2.04	121.59	116.65
29	a	304	LUT	C8-C7-C6	-2.04	121.55	127.00
27	B	830	CHL	CMC-C2C-C1C	2.04	128.40	124.73
27	b	312	CHL	CMD-C2D-C3D	2.04	128.76	124.68
27	7	321	CHL	CBC-CAC-C3C	-2.04	109.95	112.87
27	6	316	CHL	CMB-C2B-C3B	2.04	128.75	124.68
27	A	830	CHL	CMD-C2D-C3D	2.04	128.75	124.68
27	7	311	CHL	CED-O2D-CGD	2.04	120.53	115.92
27	7	314	CHL	CED-O2D-CGD	2.04	120.53	115.92
27	4	317	CHL	O2A-CGA-CBA	2.04	120.43	114.00
27	5	321	CHL	CMB-C2B-C3B	2.04	128.75	124.68
27	B	850	CHL	CMC-C2C-C1C	2.04	128.40	124.73
27	b	310	CHL	CMB-C2B-C3B	2.04	128.75	124.68
27	A	853	CHL	CMA-C3A-C4A	-2.04	110.23	114.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	817	CHL	CED-O2D-CGD	2.03	120.53	115.92
27	b	305	CHL	CED-O2D-CGD	2.03	120.53	115.92
27	4	314	CHL	O2A-CGA-CBA	2.03	120.42	114.00
27	b	314	CHL	CBC-CAC-C3C	-2.03	109.96	112.87
22	J	102	BCR	C3-C4-C5	-2.03	110.43	114.06
27	4	320	CHL	CBC-CAC-C3C	-2.03	109.96	112.87
27	A	823	CHL	CMD-C2D-C3D	2.03	128.74	124.68
27	B	817	CHL	O2A-CGA-O1A	-2.03	118.55	123.63
27	b	304	CHL	O2A-CGA-CBA	2.03	119.81	112.14
27	B	825	CHL	CED-O2D-CGD	2.03	120.52	115.92
27	b	317	CHL	CMB-C2B-C3B	2.03	128.74	124.68
22	B	806	BCR	C7-C8-C9	-2.03	123.23	126.23
27	8	312	CHL	CMA-C3A-C4A	-2.03	110.24	114.61
27	B	823	CHL	CMC-C2C-C1C	2.03	128.38	124.73
27	b	310	CHL	C1A-CHA-C4D	-2.03	115.60	118.98
27	6	310	CHL	CMB-C2B-C3B	2.03	128.74	124.68
27	a	319	CHL	CAA-CBA-CGA	-2.03	107.45	113.21
27	4	320	CHL	C1-O2A-CGA	2.03	121.56	116.65
27	4	308	CHL	C1C-CHC-C4B	2.03	123.32	116.07
30	7	301	LMG	O2-C2-C1	-2.03	105.25	110.08
27	A	826	CHL	CMD-C2D-C3D	2.03	128.73	124.68
27	8	319	CHL	CMC-C2C-C1C	2.02	128.38	124.73
27	b	306	CHL	CMA-C3A-C4A	-2.02	110.25	114.61
27	A	826	CHL	CMA-C3A-C4A	-2.02	110.25	114.61
27	6	309	CHL	CMB-C2B-C3B	2.02	128.73	124.68
29	7	304	LUT	C7-C8-C9	-2.02	123.24	126.23
24	A	812	LHG	C27-C26-C25	-2.02	104.14	114.37
27	6	319	CHL	OMC-CMC-C2C	-2.02	121.61	125.12
27	J	106	CHL	CMB-C2B-C3B	2.02	128.72	124.68
27	A	839	CHL	CBC-CAC-C3C	-2.02	109.98	112.87
27	B	818	CHL	C4C-CHD-C1D	2.02	123.30	116.07
27	7	322	CHL	CMB-C2B-C3B	2.02	128.72	124.68
27	a	309	CHL	CED-O2D-CGD	2.02	120.50	115.92
27	b	315	CHL	C4D-CHA-CBD	-2.02	106.93	108.97
29	6	302	LUT	C1-C6-C7	-2.02	110.17	115.65
27	B	834	CHL	C16-C15-C13	-2.02	109.25	115.97
27	7	321	CHL	O2A-CGA-CBA	2.02	119.77	112.14
28	7	307	DGD	O3E-C3E-C2E	-2.02	105.62	110.38
27	K	206	CHL	C1C-CHC-C4B	2.02	123.29	116.07
27	A	821	CHL	C11-C10-C8	-2.02	109.26	115.97
27	7	320	CHL	C1C-CHC-C4B	2.02	123.29	116.07
27	A	832	CHL	C6-C7-C8	-2.02	109.26	115.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	a	308	CHL	C1C-CHC-C4B	2.02	123.29	116.07
27	F	309	CHL	CBC-CAC-C3C	-2.02	109.98	112.87
27	8	316	CHL	CED-O2D-CGD	2.02	120.49	115.92
27	B	817	CHL	C1C-CHC-C4B	2.02	123.28	116.07
27	6	316	CHL	O2A-CGA-CBA	2.02	120.37	114.00
27	6	307	CHL	CMA-C3A-C4A	-2.02	110.27	114.61
27	5	312	CHL	CMB-C2B-C3B	2.02	128.71	124.68
22	B	804	BCR	C40-C30-C25	2.01	113.40	110.24
27	a	309	CHL	C1A-CHA-C4D	-2.01	115.62	118.98
27	3	308	CHL	CBC-CAC-C3C	-2.01	109.99	112.87
27	B	843	CHL	O2A-CGA-CBA	2.01	120.36	114.00
27	3	310	CHL	CMA-C3A-C4A	-2.01	110.27	114.61
27	7	319	CHL	CMA-C3A-C4A	-2.01	110.27	114.61
27	6	315	CHL	C1-O2A-CGA	2.01	121.52	116.65
27	3	319	CHL	CMA-C3A-C4A	-2.01	110.28	114.61
27	5	320	CHL	CMD-C2D-C3D	2.01	128.70	124.68
24	A	811	LHG	C27-C26-C25	-2.01	104.20	114.37
27	4	315	CHL	CBC-CAC-C3C	-2.01	109.99	112.87
27	a	308	CHL	CBC-CAC-C3C	-2.01	109.99	112.87
22	L	301	BCR	C33-C5-C6	-2.01	122.29	124.48
22	K	202	BCR	C7-C8-C9	-2.01	123.26	126.23
22	K	203	BCR	C15-C14-C13	-2.01	124.46	127.28
27	a	309	CHL	C1-O2A-CGA	2.01	121.51	116.65
27	b	309	CHL	CMA-C3A-C4A	-2.01	110.29	114.61
27	B	829	CHL	CED-O2D-CGD	2.01	120.47	115.92
27	B	811	CHL	CAA-CBA-CGA	-2.01	107.51	113.21
23	B	810	LMT	C3'-C4'-C5'	-2.01	106.48	110.93
22	B	802	BCR	C15-C16-C17	-2.01	119.42	123.52
27	a	316	CHL	CMB-C2B-C3B	2.01	128.69	124.68
27	L	303	CHL	C3C-C4C-NC	2.00	119.55	114.65
27	A	844	CHL	C4C-CHD-C1D	2.00	123.24	116.07
27	a	314	CHL	CED-O2D-CGD	2.00	120.46	115.92
27	8	314	CHL	CMA-C3A-C4A	-2.00	110.30	114.61
27	7	312	CHL	CMB-C2B-C3B	2.00	128.68	124.68
27	A	819	CHL	C1-C2-C3	-2.00	122.92	126.20
27	A	835	CHL	C4C-CHD-C1D	2.00	123.23	116.07
27	5	315	CHL	CMA-C3A-C4A	-2.00	110.30	114.61
27	3	310	CHL	CAA-CBA-CGA	-2.00	107.53	113.21

All (530) chirality outliers are listed below:

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Mol	Chain	Res	Type	Atom

Mol	Chain	Res	Type	Atom
26	A	815	CL0	NC
27	A	816	CHL	NA
27	A	816	CHL	NC
27	A	816	CHL	ND
27	A	817	CHL	NC
27	A	818	CHL	ND
27	A	818	CHL	NA
27	A	818	CHL	NC
27	A	819	CHL	ND
27	A	819	CHL	NC
27	A	820	CHL	ND
27	A	820	CHL	NA
27	A	820	CHL	NC
27	A	821	CHL	ND
27	A	821	CHL	NA
27	A	821	CHL	NC
27	A	822	CHL	NC
27	A	823	CHL	ND
27	A	823	CHL	NA
27	A	823	CHL	NC
27	A	824	CHL	NA
27	A	824	CHL	NC
27	A	825	CHL	NC
27	A	826	CHL	NC
27	A	827	CHL	NA
27	A	827	CHL	NC
27	A	828	CHL	NA
27	A	828	CHL	ND
27	A	829	CHL	ND
27	A	829	CHL	NC
27	A	830	CHL	NA
27	A	830	CHL	NC
27	A	831	CHL	NA
27	A	831	CHL	NC
27	A	832	CHL	NA
27	A	832	CHL	NC
27	A	833	CHL	NA
27	A	833	CHL	NC
27	A	834	CHL	NA
27	A	834	CHL	NC
27	A	835	CHL	ND

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Mol	Chain	Res	Type	Atom
27	A	835	CHL	NA
27	A	835	CHL	NC
27	A	836	CHL	ND
27	A	836	CHL	NA
27	A	836	CHL	NC
27	A	837	CHL	NA
27	A	837	CHL	NC
27	A	838	CHL	NC
27	A	839	CHL	NA
27	A	839	CHL	NC
27	A	840	CHL	ND
27	A	840	CHL	NA
27	A	840	CHL	NC
27	A	841	CHL	NA
27	A	841	CHL	ND
27	A	841	CHL	NC
27	A	842	CHL	NA
27	A	842	CHL	ND
27	A	843	CHL	NA
27	A	843	CHL	NC
27	A	844	CHL	NC
27	A	845	CHL	NC
27	A	846	CHL	NA
27	A	846	CHL	NC
27	A	847	CHL	NA
27	A	847	CHL	NC
27	A	848	CHL	ND
27	A	848	CHL	NC
27	A	849	CHL	NA
27	A	849	CHL	NC
27	A	850	CHL	NC
27	A	851	CHL	NA
27	A	851	CHL	ND
27	A	851	CHL	NC
27	A	852	CHL	ND
27	A	852	CHL	NA
27	A	852	CHL	NC
27	A	853	CHL	ND
27	A	853	CHL	NA
27	A	853	CHL	NC
27	A	854	CHL	NC
27	A	855	CHL	NC

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Mol	Chain	Res	Type	Atom
27	A	856	CHL	ND
27	A	856	CHL	NC
27	A	857	CHL	ND
27	A	857	CHL	NA
27	A	857	CHL	NC
27	A	858	CHL	ND
27	A	858	CHL	NC
27	A	859	CHL	NA
27	A	859	CHL	ND
27	A	859	CHL	NC
27	B	811	CHL	ND
27	B	811	CHL	NC
27	B	812	CHL	ND
27	B	812	CHL	NC
27	B	813	CHL	ND
27	B	813	CHL	NA
27	B	813	CHL	NC
27	B	814	CHL	ND
27	B	814	CHL	NA
27	B	814	CHL	NC
27	B	815	CHL	ND
27	B	815	CHL	NA
27	B	815	CHL	NC
27	B	816	CHL	NA
27	B	816	CHL	ND
27	B	816	CHL	NC
27	B	817	CHL	NA
27	B	817	CHL	ND
27	B	817	CHL	NC
27	B	818	CHL	ND
27	B	818	CHL	NC
27	B	819	CHL	ND
27	B	819	CHL	NA
27	B	819	CHL	NC
27	B	820	CHL	NC
27	B	821	CHL	NA
27	B	821	CHL	NC
27	B	822	CHL	NA
27	B	822	CHL	ND
27	B	823	CHL	ND
27	B	823	CHL	NA
27	B	823	CHL	NC

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Mol	Chain	Res	Type	Atom
27	B	824	CHL	NA
27	B	824	CHL	NC
27	B	825	CHL	NA
27	B	825	CHL	NC
27	B	826	CHL	NC
27	B	827	CHL	ND
27	B	827	CHL	NA
27	B	827	CHL	NC
27	B	828	CHL	ND
27	B	828	CHL	NA
27	B	828	CHL	NC
27	B	829	CHL	NA
27	B	829	CHL	NC
27	B	830	CHL	NA
27	B	830	CHL	NC
27	B	831	CHL	NA
27	B	831	CHL	NC
27	B	832	CHL	ND
27	B	832	CHL	NA
27	B	832	CHL	NC
27	B	833	CHL	ND
27	B	833	CHL	NA
27	B	833	CHL	NC
27	B	834	CHL	ND
27	B	834	CHL	NA
27	B	834	CHL	NC
27	B	835	CHL	ND
27	B	835	CHL	NC
27	B	836	CHL	NA
27	B	836	CHL	NC
27	B	837	CHL	NC
27	B	838	CHL	NC
27	B	839	CHL	NA
27	B	839	CHL	NC
27	B	840	CHL	ND
27	B	840	CHL	NA
27	B	840	CHL	NC
27	B	841	CHL	NA
27	B	841	CHL	NC
27	B	842	CHL	ND
27	B	842	CHL	NC
27	B	843	CHL	ND

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Mol	Chain	Res	Type	Atom
27	B	843	CHL	NA
27	B	843	CHL	NC
27	B	844	CHL	NA
27	B	844	CHL	ND
27	B	844	CHL	NC
27	B	845	CHL	NA
27	B	845	CHL	NC
27	B	846	CHL	ND
27	B	846	CHL	NA
27	B	846	CHL	NC
27	B	847	CHL	NA
27	B	847	CHL	NC
27	B	848	CHL	NC
27	B	849	CHL	ND
27	B	849	CHL	NA
27	B	849	CHL	NC
27	B	850	CHL	NA
27	B	850	CHL	ND
27	B	851	CHL	NA
27	B	851	CHL	NC
27	F	308	CHL	ND
27	F	308	CHL	NA
27	F	308	CHL	NC
27	F	309	CHL	ND
27	F	309	CHL	NA
27	F	309	CHL	NC
27	J	106	CHL	ND
27	J	106	CHL	NA
27	J	106	CHL	NC
27	K	204	CHL	ND
27	K	204	CHL	NA
27	K	204	CHL	NC
27	K	205	CHL	ND
27	K	205	CHL	NA
27	K	205	CHL	NC
27	K	206	CHL	NA
27	K	206	CHL	NC
27	K	207	CHL	ND
27	K	207	CHL	NA
27	K	207	CHL	NC
27	a	307	CHL	ND
27	a	307	CHL	NA

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Mol	Chain	Res	Type	Atom
27	a	307	CHL	NC
27	a	308	CHL	ND
27	a	308	CHL	NA
27	a	308	CHL	NC
27	a	309	CHL	ND
27	a	309	CHL	NA
27	a	309	CHL	NC
27	a	310	CHL	ND
27	a	310	CHL	NC
27	a	311	CHL	NA
27	a	311	CHL	ND
27	a	312	CHL	ND
27	a	312	CHL	NA
27	a	312	CHL	NC
27	a	313	CHL	ND
27	a	313	CHL	NA
27	a	313	CHL	NC
27	a	314	CHL	NA
27	a	314	CHL	NC
27	a	315	CHL	NA
27	a	315	CHL	NC
27	a	316	CHL	ND
27	a	316	CHL	NA
27	a	316	CHL	NC
27	a	317	CHL	ND
27	a	317	CHL	NA
27	a	317	CHL	NC
27	a	318	CHL	ND
27	a	318	CHL	NA
27	a	318	CHL	NC
27	a	319	CHL	NA
27	a	319	CHL	ND
27	a	320	CHL	NA
27	a	320	CHL	ND
27	a	320	CHL	NC
27	3	308	CHL	ND
27	3	308	CHL	NA
27	3	308	CHL	NC
27	3	309	CHL	ND
27	3	309	CHL	NA
27	3	309	CHL	NC
27	3	310	CHL	ND

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Mol	Chain	Res	Type	Atom
27	3	310	CHL	NA
27	3	310	CHL	NC
27	3	311	CHL	ND
27	3	311	CHL	NA
27	3	311	CHL	NC
27	3	312	CHL	NA
27	3	312	CHL	ND
27	3	313	CHL	ND
27	3	313	CHL	NA
27	3	313	CHL	NC
27	3	314	CHL	ND
27	3	314	CHL	NA
27	3	314	CHL	NC
27	3	315	CHL	NA
27	3	315	CHL	NC
27	3	316	CHL	NA
27	3	316	CHL	NC
27	3	317	CHL	ND
27	3	317	CHL	NC
27	3	318	CHL	ND
27	3	318	CHL	NA
27	3	318	CHL	NC
27	3	319	CHL	NA
27	3	319	CHL	NC
27	3	320	CHL	ND
27	3	320	CHL	NA
27	3	320	CHL	NC
27	3	321	CHL	NA
27	3	321	CHL	NC
27	4	304	CHL	ND
27	4	304	CHL	NA
27	4	304	CHL	NC
27	4	305	CHL	ND
27	4	305	CHL	NA
27	4	305	CHL	NC
27	4	306	CHL	ND
27	4	306	CHL	NA
27	4	306	CHL	NC
27	4	307	CHL	NA
27	4	307	CHL	NC
27	4	308	CHL	ND
27	4	308	CHL	NA

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Mol	Chain	Res	Type	Atom
27	4	308	CHL	NC
27	4	309	CHL	ND
27	4	309	CHL	NA
27	4	309	CHL	NC
27	4	310	CHL	ND
27	4	310	CHL	NA
27	4	310	CHL	NC
27	4	311	CHL	ND
27	4	311	CHL	NA
27	4	311	CHL	NC
27	4	312	CHL	NA
27	4	312	CHL	NC
27	4	313	CHL	NC
27	4	314	CHL	ND
27	4	314	CHL	NA
27	4	314	CHL	NC
27	4	315	CHL	ND
27	4	315	CHL	NA
27	4	315	CHL	NC
27	4	316	CHL	ND
27	4	316	CHL	NA
27	4	316	CHL	NC
27	4	317	CHL	NA
27	4	317	CHL	NC
27	4	318	CHL	ND
27	4	318	CHL	NA
27	4	318	CHL	NC
27	4	319	CHL	NA
27	4	319	CHL	NC
27	4	320	CHL	ND
27	4	320	CHL	NA
27	4	320	CHL	NC
27	5	307	CHL	ND
27	5	307	CHL	NA
27	5	307	CHL	NC
27	5	308	CHL	ND
27	5	308	CHL	NA
27	5	308	CHL	NC
27	5	309	CHL	NA
27	5	309	CHL	NC
27	5	310	CHL	ND
27	5	310	CHL	NA

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Mol	Chain	Res	Type	Atom
27	5	310	CHL	NC
27	5	311	CHL	ND
27	5	311	CHL	NA
27	5	311	CHL	NC
27	5	312	CHL	ND
27	5	312	CHL	NA
27	5	312	CHL	NC
27	5	313	CHL	NA
27	5	313	CHL	NC
27	5	314	CHL	NA
27	5	314	CHL	NC
27	5	315	CHL	ND
27	5	315	CHL	NA
27	5	315	CHL	NC
27	5	316	CHL	ND
27	5	316	CHL	NA
27	5	316	CHL	NC
27	5	317	CHL	NA
27	5	317	CHL	NC
27	5	318	CHL	NA
27	5	318	CHL	ND
27	5	318	CHL	NC
27	5	319	CHL	NA
27	5	319	CHL	NC
27	5	320	CHL	ND
27	5	320	CHL	NA
27	5	320	CHL	NC
27	5	321	CHL	NA
27	5	321	CHL	NC
27	5	322	CHL	ND
27	5	322	CHL	NA
27	5	322	CHL	NC
27	5	323	CHL	ND
27	5	323	CHL	NC
27	5	325	CHL	NA
27	5	325	CHL	NC
27	6	305	CHL	ND
27	6	305	CHL	NA
27	6	305	CHL	NC
27	6	306	CHL	ND
27	6	306	CHL	NA
27	6	306	CHL	NC

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Mol	Chain	Res	Type	Atom
27	6	307	CHL	NA
27	6	307	CHL	NC
27	6	308	CHL	ND
27	6	308	CHL	NA
27	6	308	CHL	NC
27	6	309	CHL	ND
27	6	309	CHL	NA
27	6	309	CHL	NC
27	6	310	CHL	ND
27	6	310	CHL	NA
27	6	310	CHL	NC
27	6	311	CHL	ND
27	6	311	CHL	NA
27	6	311	CHL	NC
27	6	312	CHL	ND
27	6	312	CHL	NA
27	6	312	CHL	NC
27	6	313	CHL	NA
27	6	313	CHL	NC
27	6	314	CHL	ND
27	6	314	CHL	NA
27	6	314	CHL	NC
27	6	315	CHL	NA
27	6	315	CHL	NC
27	6	316	CHL	ND
27	6	316	CHL	NA
27	6	316	CHL	NC
27	6	317	CHL	NA
27	6	317	CHL	NC
27	6	318	CHL	NA
27	6	318	CHL	ND
27	6	318	CHL	NC
27	6	319	CHL	ND
27	6	319	CHL	NA
27	6	319	CHL	NC
27	6	320	CHL	ND
27	6	320	CHL	NA
27	6	320	CHL	NC
27	7	311	CHL	ND
27	7	311	CHL	NA
27	7	311	CHL	NC
27	7	312	CHL	ND

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Mol	Chain	Res	Type	Atom
27	7	312	CHL	NA
27	7	312	CHL	NC
27	7	313	CHL	NA
27	7	313	CHL	NC
27	7	314	CHL	ND
27	7	314	CHL	NA
27	7	314	CHL	NC
27	7	315	CHL	NA
27	7	315	CHL	ND
27	7	316	CHL	ND
27	7	316	CHL	NA
27	7	316	CHL	NC
27	7	317	CHL	ND
27	7	317	CHL	NA
27	7	317	CHL	NC
27	7	318	CHL	NA
27	7	318	CHL	NC
27	7	319	CHL	ND
27	7	319	CHL	NA
27	7	319	CHL	NC
27	7	320	CHL	ND
27	7	320	CHL	NC
27	7	321	CHL	ND
27	7	321	CHL	NA
27	7	321	CHL	NC
27	7	322	CHL	NA
27	7	322	CHL	NC
27	7	323	CHL	NA
27	7	323	CHL	NC
27	7	324	CHL	NA
27	7	324	CHL	NC
27	8	311	CHL	ND
27	8	311	CHL	NA
27	8	311	CHL	NC
27	8	312	CHL	ND
27	8	312	CHL	NA
27	8	312	CHL	NC
27	8	313	CHL	ND
27	8	313	CHL	NA
27	8	313	CHL	NC
27	8	314	CHL	ND
27	8	314	CHL	NA

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Mol	Chain	Res	Type	Atom
27	8	314	CHL	NC
27	8	315	CHL	ND
27	8	315	CHL	NC
27	8	316	CHL	NA
27	8	316	CHL	ND
27	8	317	CHL	ND
27	8	317	CHL	NA
27	8	317	CHL	NC
27	8	318	CHL	ND
27	8	318	CHL	NA
27	8	318	CHL	NC
27	8	319	CHL	ND
27	8	319	CHL	NA
27	8	319	CHL	NC
27	8	320	CHL	NA
27	8	320	CHL	NC
27	8	321	CHL	ND
27	8	321	CHL	NA
27	8	321	CHL	NC
27	8	322	CHL	NA
27	8	322	CHL	NC
27	8	323	CHL	NA
27	8	323	CHL	NC
27	8	324	CHL	ND
27	8	324	CHL	NA
27	8	324	CHL	NC
27	8	325	CHL	NA
27	8	325	CHL	NC
27	8	326	CHL	ND
27	8	326	CHL	NA
27	8	326	CHL	NC
27	L	303	CHL	NA
27	L	303	CHL	NC
27	L	304	CHL	NA
27	L	304	CHL	NC
27	b	304	CHL	NA
27	b	304	CHL	ND
27	b	305	CHL	ND
27	b	305	CHL	NA
27	b	305	CHL	NC
27	b	306	CHL	NA
27	b	306	CHL	NC

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Mol	Chain	Res	Type	Atom
27	b	307	CHL	NA
27	b	307	CHL	ND
27	b	308	CHL	NA
27	b	308	CHL	NC
27	b	309	CHL	ND
27	b	309	CHL	NA
27	b	309	CHL	NC
27	b	310	CHL	NA
27	b	310	CHL	NC
27	b	311	CHL	ND
27	b	311	CHL	NA
27	b	311	CHL	NC
27	b	312	CHL	NA
27	b	313	CHL	ND
27	b	313	CHL	NA
27	b	313	CHL	NC
27	b	314	CHL	NA
27	b	314	CHL	ND
27	b	314	CHL	NC
27	b	315	CHL	ND
27	b	315	CHL	NA
27	b	315	CHL	NC
27	b	316	CHL	ND
27	b	316	CHL	NA
27	b	316	CHL	NC
27	b	317	CHL	NA
27	b	317	CHL	NC

All (2529) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	A	804	BCR	C7-C8-C9-C10
22	A	804	BCR	C7-C8-C9-C34
22	A	806	BCR	C7-C8-C9-C34
22	A	806	BCR	C20-C21-C22-C37
22	A	807	BCR	C21-C22-C23-C24
22	A	807	BCR	C37-C22-C23-C24
22	B	802	BCR	C7-C8-C9-C10
22	B	802	BCR	C7-C8-C9-C34
22	B	802	BCR	C21-C22-C23-C24
22	B	802	BCR	C37-C22-C23-C24
22	B	803	BCR	C37-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
22	B	804	BCR	C7-C8-C9-C34
22	B	806	BCR	C7-C8-C9-C10
22	B	806	BCR	C7-C8-C9-C34
22	F	301	BCR	C7-C8-C9-C34
22	F	301	BCR	C37-C22-C23-C24
22	I	801	BCR	C7-C8-C9-C34
22	I	801	BCR	C20-C21-C22-C37
22	I	801	BCR	C21-C22-C23-C24
22	J	102	BCR	C7-C8-C9-C34
22	K	202	BCR	C7-C8-C9-C10
22	K	202	BCR	C7-C8-C9-C34
22	K	202	BCR	C23-C24-C25-C26
22	M	102	BCR	C7-C8-C9-C34
22	M	102	BCR	C22-C23-C24-C25
22	3	301	BCR	C7-C8-C9-C10
22	3	301	BCR	C7-C8-C9-C34
22	5	301	BCR	C6-C7-C8-C9
22	5	301	BCR	C7-C8-C9-C10
22	5	301	BCR	C7-C8-C9-C34
22	5	301	BCR	C17-C18-C19-C20
22	5	301	BCR	C36-C18-C19-C20
22	5	301	BCR	C18-C19-C20-C21
22	5	301	BCR	C20-C21-C22-C37
22	6	301	BCR	C6-C7-C8-C9
22	6	301	BCR	C11-C10-C9-C8
22	6	301	BCR	C11-C10-C9-C34
22	6	301	BCR	C10-C11-C12-C13
22	6	301	BCR	C11-C12-C13-C14
22	6	301	BCR	C11-C12-C13-C35
22	6	301	BCR	C18-C19-C20-C21
22	6	301	BCR	C21-C22-C23-C24
22	6	301	BCR	C37-C22-C23-C24
22	6	301	BCR	C22-C23-C24-C25
22	7	303	BCR	C20-C21-C22-C23
22	7	303	BCR	C20-C21-C22-C37
23	F	302	LMT	C2-C1-O1'-C1'
24	A	810	LHG	O1-C1-C2-C3
24	A	810	LHG	C3-O3-P-O4
24	A	810	LHG	C3-O3-P-O6
24	A	811	LHG	O1-C1-C2-C3
24	A	811	LHG	C3-O3-P-O5
24	A	811	LHG	C4-O6-P-O4

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Mol	Chain	Res	Type	Atoms
24	A	811	LHG	C4-O6-P-O5
24	A	811	LHG	O9-C7-O7-C5
24	A	811	LHG	C8-C7-O7-C5
24	A	812	LHG	C3-O3-P-O6
24	4	303	LHG	C3-O3-P-O4
24	4	303	LHG	C3-O3-P-O5
24	4	303	LHG	C3-O3-P-O6
24	5	304	LHG	C3-O3-P-O4
24	5	304	LHG	C3-O3-P-O6
24	5	324	LHG	C1-C2-C3-O3
24	5	324	LHG	C2-C3-O3-P
24	5	324	LHG	C3-O3-P-O4
24	5	324	LHG	C3-O3-P-O6
24	7	302	LHG	O2-C2-C3-O3
24	7	302	LHG	C3-O3-P-O6
24	7	302	LHG	C4-O6-P-O4
24	7	302	LHG	O9-C7-O7-C5
24	7	302	LHG	C8-C7-O7-C5
24	7	306	LHG	C3-O3-P-O4
24	7	306	LHG	C4-O6-P-O4
24	b	302	LHG	O1-C1-C2-C3
24	b	302	LHG	C4-O6-P-O3
24	b	302	LHG	C4-O6-P-O5
27	A	816	CHL	CBD-CGD-O2D-CED
27	A	817	CHL	CBD-CGD-O2D-CED
27	A	817	CHL	O1D-CGD-O2D-CED
27	A	821	CHL	CBD-CGD-O2D-CED
27	A	824	CHL	CBD-CGD-O2D-CED
27	A	825	CHL	CBD-CGD-O2D-CED
27	A	826	CHL	C1A-C2A-CAA-CBA
27	A	826	CHL	CBD-CGD-O2D-CED
27	A	828	CHL	CBD-CGD-O2D-CED
27	A	828	CHL	O1D-CGD-O2D-CED
27	A	830	CHL	CBD-CGD-O2D-CED
27	A	830	CHL	C4-C3-C5-C6
27	A	831	CHL	C4C-C3C-CAC-CBC
27	A	833	CHL	C1A-C2A-CAA-CBA
27	A	833	CHL	C3A-C2A-CAA-CBA
27	A	833	CHL	C1C-C2C-CMC-OMC
27	A	833	CHL	C3C-C2C-CMC-OMC
27	A	833	CHL	CAD-CBD-CGD-O2D
27	A	833	CHL	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	A	835	CHL	C3A-C2A-CAA-CBA
27	A	836	CHL	CBD-CGD-O2D-CED
27	A	837	CHL	CBD-CGD-O2D-CED
27	A	837	CHL	O1D-CGD-O2D-CED
27	A	838	CHL	CBD-CGD-O2D-CED
27	A	839	CHL	CBD-CGD-O2D-CED
27	A	841	CHL	C1C-C2C-CMC-OMC
27	A	841	CHL	C3C-C2C-CMC-OMC
27	A	841	CHL	CAD-CBD-CGD-O2D
27	A	842	CHL	CBD-CGD-O2D-CED
27	A	844	CHL	CHA-CBD-CGD-O1D
27	A	844	CHL	CBD-CGD-O2D-CED
27	A	844	CHL	O1D-CGD-O2D-CED
27	A	846	CHL	C1A-C2A-CAA-CBA
27	A	847	CHL	CBD-CGD-O2D-CED
27	A	848	CHL	C1A-C2A-CAA-CBA
27	A	848	CHL	CBD-CGD-O2D-CED
27	A	849	CHL	CBD-CGD-O2D-CED
27	A	850	CHL	CBD-CGD-O2D-CED
27	A	852	CHL	CBD-CGD-O2D-CED
27	A	852	CHL	C2-C3-C5-C6
27	A	853	CHL	CBD-CGD-O2D-CED
27	A	854	CHL	CHA-CBD-CGD-O2D
27	A	854	CHL	CBD-CGD-O2D-CED
27	A	856	CHL	CHA-CBD-CGD-O1D
27	A	856	CHL	CBD-CGD-O2D-CED
27	A	856	CHL	O1D-CGD-O2D-CED
27	A	858	CHL	CBD-CGD-O2D-CED
27	A	858	CHL	O1D-CGD-O2D-CED
27	A	859	CHL	CBD-CGD-O2D-CED
27	B	811	CHL	CBD-CGD-O2D-CED
27	B	811	CHL	O1D-CGD-O2D-CED
27	B	812	CHL	CBD-CGD-O2D-CED
27	B	812	CHL	O1D-CGD-O2D-CED
27	B	814	CHL	CAD-CBD-CGD-O2D
27	B	814	CHL	CBD-CGD-O2D-CED
27	B	814	CHL	O1D-CGD-O2D-CED
27	B	815	CHL	CBD-CGD-O2D-CED
27	B	816	CHL	CBD-CGD-O2D-CED
27	B	818	CHL	CBD-CGD-O2D-CED
27	B	818	CHL	O1D-CGD-O2D-CED
27	B	819	CHL	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	B	820	CHL	CBD-CGD-O2D-CED
27	B	821	CHL	CBD-CGD-O2D-CED
27	B	821	CHL	O1D-CGD-O2D-CED
27	B	822	CHL	C4C-C3C-CAC-CBC
27	B	822	CHL	O1D-CGD-O2D-CED
27	B	825	CHL	CBD-CGD-O2D-CED
27	B	826	CHL	C1A-C2A-CAA-CBA
27	B	828	CHL	CBD-CGD-O2D-CED
27	B	829	CHL	CBD-CGD-O2D-CED
27	B	830	CHL	CBD-CGD-O2D-CED
27	B	830	CHL	O1D-CGD-O2D-CED
27	B	831	CHL	CBD-CGD-O2D-CED
27	B	835	CHL	C1A-C2A-CAA-CBA
27	B	835	CHL	CHA-CBD-CGD-O1D
27	B	835	CHL	CBD-CGD-O2D-CED
27	B	835	CHL	O1D-CGD-O2D-CED
27	B	836	CHL	CBD-CGD-O2D-CED
27	B	836	CHL	O1D-CGD-O2D-CED
27	B	838	CHL	CBD-CGD-O2D-CED
27	B	839	CHL	CBD-CGD-O2D-CED
27	B	839	CHL	O1D-CGD-O2D-CED
27	B	842	CHL	CBD-CGD-O2D-CED
27	B	843	CHL	CBD-CGD-O2D-CED
27	B	843	CHL	O1D-CGD-O2D-CED
27	B	844	CHL	CBD-CGD-O2D-CED
27	B	845	CHL	CBD-CGD-O2D-CED
27	B	846	CHL	CBD-CGD-O2D-CED
27	B	847	CHL	CBD-CGD-O2D-CED
27	B	848	CHL	CBD-CGD-O2D-CED
27	B	850	CHL	CBD-CGD-O2D-CED
27	B	851	CHL	CBD-CGD-O2D-CED
27	F	308	CHL	CBD-CGD-O2D-CED
27	F	309	CHL	CBD-CGD-O2D-CED
27	F	309	CHL	O1D-CGD-O2D-CED
27	J	106	CHL	CBD-CGD-O2D-CED
27	J	106	CHL	O1D-CGD-O2D-CED
27	K	205	CHL	CBD-CGD-O2D-CED
27	K	206	CHL	CBD-CGD-O2D-CED
27	K	207	CHL	CBD-CGD-O2D-CED
27	K	207	CHL	O1D-CGD-O2D-CED
27	a	307	CHL	CBD-CGD-O2D-CED
27	a	307	CHL	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	a	308	CHL	C1A-C2A-CAA-CBA
27	a	308	CHL	CBD-CGD-O2D-CED
27	a	309	CHL	CBD-CGD-O2D-CED
27	a	311	CHL	CBD-CGD-O2D-CED
27	a	312	CHL	CBD-CGD-O2D-CED
27	a	313	CHL	CBD-CGD-O2D-CED
27	a	313	CHL	O1D-CGD-O2D-CED
27	a	314	CHL	C3A-C2A-CAA-CBA
27	a	314	CHL	CHA-CBD-CGD-O1D
27	a	314	CHL	CBD-CGD-O2D-CED
27	a	314	CHL	O1D-CGD-O2D-CED
27	a	315	CHL	CBD-CGD-O2D-CED
27	a	315	CHL	O1D-CGD-O2D-CED
27	a	316	CHL	C1C-C2C-CMC-OMC
27	a	316	CHL	C3C-C2C-CMC-OMC
27	a	316	CHL	C4C-C3C-CAC-CBC
27	a	316	CHL	CBD-CGD-O2D-CED
27	a	316	CHL	O1D-CGD-O2D-CED
27	a	317	CHL	C3A-C2A-CAA-CBA
27	a	317	CHL	CBD-CGD-O2D-CED
27	a	317	CHL	O1D-CGD-O2D-CED
27	a	318	CHL	C1C-C2C-CMC-OMC
27	a	318	CHL	C3C-C2C-CMC-OMC
27	a	318	CHL	C4C-C3C-CAC-CBC
27	a	318	CHL	CBD-CGD-O2D-CED
27	a	319	CHL	CBD-CGD-O2D-CED
27	a	319	CHL	O1D-CGD-O2D-CED
27	a	320	CHL	CBD-CGD-O2D-CED
27	a	320	CHL	O1D-CGD-O2D-CED
27	3	308	CHL	CHA-CBD-CGD-O1D
27	3	308	CHL	CBD-CGD-O2D-CED
27	3	309	CHL	CBD-CGD-O2D-CED
27	3	310	CHL	CBD-CGD-O2D-CED
27	3	310	CHL	O1D-CGD-O2D-CED
27	3	311	CHL	C3A-C2A-CAA-CBA
27	3	311	CHL	C4C-C3C-CAC-CBC
27	3	312	CHL	CBD-CGD-O2D-CED
27	3	313	CHL	CBD-CGD-O2D-CED
27	3	314	CHL	CBD-CGD-O2D-CED
27	3	316	CHL	C1A-C2A-CAA-CBA
27	3	316	CHL	CBD-CGD-O2D-CED
27	3	316	CHL	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	3	317	CHL	CBD-CGD-O2D-CED
27	3	318	CHL	CBD-CGD-O2D-CED
27	3	318	CHL	O1D-CGD-O2D-CED
27	3	318	CHL	C2-C3-C5-C6
27	3	318	CHL	C4-C3-C5-C6
27	3	319	CHL	CBD-CGD-O2D-CED
27	3	319	CHL	O1D-CGD-O2D-CED
27	3	321	CHL	CBD-CGD-O2D-CED
27	4	304	CHL	CHA-CBD-CGD-O1D
27	4	304	CHL	CBD-CGD-O2D-CED
27	4	304	CHL	O1D-CGD-O2D-CED
27	4	305	CHL	CBD-CGD-O2D-CED
27	4	306	CHL	CBD-CGD-O2D-CED
27	4	306	CHL	O1D-CGD-O2D-CED
27	4	307	CHL	CBD-CGD-O2D-CED
27	4	308	CHL	CBD-CGD-O2D-CED
27	4	309	CHL	C1C-C2C-CMC-OMC
27	4	309	CHL	C3C-C2C-CMC-OMC
27	4	309	CHL	CBD-CGD-O2D-CED
27	4	309	CHL	O1D-CGD-O2D-CED
27	4	310	CHL	CBD-CGD-O2D-CED
27	4	310	CHL	O1D-CGD-O2D-CED
27	4	311	CHL	CBD-CGD-O2D-CED
27	4	311	CHL	O1D-CGD-O2D-CED
27	4	312	CHL	C1C-C2C-CMC-OMC
27	4	312	CHL	C3C-C2C-CMC-OMC
27	4	312	CHL	CBD-CGD-O2D-CED
27	4	313	CHL	C1A-C2A-CAA-CBA
27	4	314	CHL	CBD-CGD-O2D-CED
27	4	314	CHL	O1D-CGD-O2D-CED
27	4	315	CHL	O1D-CGD-O2D-CED
27	4	316	CHL	C1C-C2C-CMC-OMC
27	4	316	CHL	C3C-C2C-CMC-OMC
27	4	316	CHL	C4C-C3C-CAC-CBC
27	4	316	CHL	CBD-CGD-O2D-CED
27	4	316	CHL	O1D-CGD-O2D-CED
27	4	317	CHL	CBD-CGD-O2D-CED
27	4	318	CHL	CHA-CBD-CGD-O1D
27	4	318	CHL	CBD-CGD-O2D-CED
27	4	318	CHL	O1D-CGD-O2D-CED
27	4	319	CHL	C4C-C3C-CAC-CBC
27	4	320	CHL	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	5	307	CHL	CBD-CGD-O2D-CED
27	5	308	CHL	CBD-CGD-O2D-CED
27	5	309	CHL	CHA-CBD-CGD-O1D
27	5	309	CHL	CBD-CGD-O2D-CED
27	5	309	CHL	C4-C3-C5-C6
27	5	310	CHL	CBD-CGD-O2D-CED
27	5	311	CHL	CBD-CGD-O2D-CED
27	5	313	CHL	C1A-C2A-CAA-CBA
27	5	313	CHL	C4-C3-C5-C6
27	5	314	CHL	CBD-CGD-O2D-CED
27	5	314	CHL	O1D-CGD-O2D-CED
27	5	315	CHL	CHA-CBD-CGD-O2D
27	5	315	CHL	CBD-CGD-O2D-CED
27	5	315	CHL	O1D-CGD-O2D-CED
27	5	316	CHL	C1C-C2C-CMC-OMC
27	5	316	CHL	C3C-C2C-CMC-OMC
27	5	316	CHL	C4C-C3C-CAC-CBC
27	5	317	CHL	C4C-C3C-CAC-CBC
27	5	317	CHL	CAD-CBD-CGD-O2D
27	5	317	CHL	CBD-CGD-O2D-CED
27	5	318	CHL	CBD-CGD-O2D-CED
27	5	319	CHL	C1C-C2C-CMC-OMC
27	5	319	CHL	C3C-C2C-CMC-OMC
27	5	319	CHL	C4C-C3C-CAC-CBC
27	5	319	CHL	CBD-CGD-O2D-CED
27	5	319	CHL	O1D-CGD-O2D-CED
27	5	320	CHL	CBD-CGD-O2D-CED
27	5	320	CHL	O1D-CGD-O2D-CED
27	5	321	CHL	CBD-CGD-O2D-CED
27	5	322	CHL	CBD-CGD-O2D-CED
27	5	322	CHL	O1D-CGD-O2D-CED
27	5	323	CHL	CBD-CGD-O2D-CED
27	5	325	CHL	C1C-C2C-CMC-OMC
27	5	325	CHL	C3C-C2C-CMC-OMC
27	5	325	CHL	CBD-CGD-O2D-CED
27	5	325	CHL	O1D-CGD-O2D-CED
27	6	305	CHL	C1A-C2A-CAA-CBA
27	6	305	CHL	C3A-C2A-CAA-CBA
27	6	305	CHL	CBD-CGD-O2D-CED
27	6	305	CHL	O1D-CGD-O2D-CED
27	6	306	CHL	C1A-C2A-CAA-CBA
27	6	306	CHL	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
27	6	306	CHL	CBD-CGD-O2D-CED
27	6	306	CHL	O1D-CGD-O2D-CED
27	6	308	CHL	C3A-C2A-CAA-CBA
27	6	308	CHL	C1C-C2C-CMC-OMC
27	6	308	CHL	C3C-C2C-CMC-OMC
27	6	308	CHL	C4-C3-C5-C6
27	6	309	CHL	CBD-CGD-O2D-CED
27	6	310	CHL	CBD-CGD-O2D-CED
27	6	311	CHL	CBD-CGD-O2D-CED
27	6	311	CHL	O1D-CGD-O2D-CED
27	6	312	CHL	CBD-CGD-O2D-CED
27	6	312	CHL	O1D-CGD-O2D-CED
27	6	313	CHL	CBD-CGD-O2D-CED
27	6	314	CHL	CBD-CGD-O2D-CED
27	6	315	CHL	CBD-CGD-O2D-CED
27	6	315	CHL	O1D-CGD-O2D-CED
27	6	316	CHL	C3A-C2A-CAA-CBA
27	6	316	CHL	C1C-C2C-CMC-OMC
27	6	316	CHL	C3C-C2C-CMC-OMC
27	6	316	CHL	C4C-C3C-CAC-CBC
27	6	317	CHL	C3A-C2A-CAA-CBA
27	6	317	CHL	C3C-C2C-CMC-OMC
27	6	317	CHL	CBD-CGD-O2D-CED
27	6	318	CHL	C1C-C2C-CMC-OMC
27	6	318	CHL	C3C-C2C-CMC-OMC
27	6	318	CHL	C4C-C3C-CAC-CBC
27	6	318	CHL	CBD-CGD-O2D-CED
27	6	318	CHL	O1D-CGD-O2D-CED
27	6	319	CHL	C1A-C2A-CAA-CBA
27	6	319	CHL	C3A-C2A-CAA-CBA
27	6	319	CHL	C1C-C2C-CMC-OMC
27	6	319	CHL	C3C-C2C-CMC-OMC
27	6	319	CHL	CBD-CGD-O2D-CED
27	6	320	CHL	CBD-CGD-O2D-CED
27	6	320	CHL	O1D-CGD-O2D-CED
27	7	311	CHL	CBD-CGD-O2D-CED
27	7	312	CHL	CBD-CGD-O2D-CED
27	7	313	CHL	CBD-CGD-O2D-CED
27	7	316	CHL	CBD-CGD-O2D-CED
27	7	316	CHL	O1D-CGD-O2D-CED
27	7	317	CHL	CBD-CGD-O2D-CED
27	7	318	CHL	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	7	319	CHL	C1A-C2A-CAA-CBA
27	7	319	CHL	C3A-C2A-CAA-CBA
27	7	319	CHL	C1C-C2C-CMC-OMC
27	7	319	CHL	C3C-C2C-CMC-OMC
27	7	319	CHL	CBD-CGD-O2D-CED
27	7	319	CHL	O1D-CGD-O2D-CED
27	7	320	CHL	C1C-C2C-CMC-OMC
27	7	320	CHL	C3C-C2C-CMC-OMC
27	7	320	CHL	C4C-C3C-CAC-CBC
27	7	320	CHL	CBD-CGD-O2D-CED
27	7	322	CHL	C1C-C2C-CMC-OMC
27	7	322	CHL	C3C-C2C-CMC-OMC
27	7	322	CHL	C4C-C3C-CAC-CBC
27	7	322	CHL	CBD-CGD-O2D-CED
27	7	323	CHL	C3A-C2A-CAA-CBA
27	7	323	CHL	C3-C5-C6-C7
27	7	324	CHL	CBD-CGD-O2D-CED
27	7	324	CHL	O1D-CGD-O2D-CED
27	8	311	CHL	CBD-CGD-O2D-CED
27	8	311	CHL	O1D-CGD-O2D-CED
27	8	312	CHL	CBD-CGD-O2D-CED
27	8	313	CHL	CBD-CGD-O2D-CED
27	8	314	CHL	C1C-C2C-CMC-OMC
27	8	314	CHL	C3C-C2C-CMC-OMC
27	8	314	CHL	CBD-CGD-O2D-CED
27	8	314	CHL	O1D-CGD-O2D-CED
27	8	316	CHL	CBD-CGD-O2D-CED
27	8	316	CHL	O1D-CGD-O2D-CED
27	8	317	CHL	CBD-CGD-O2D-CED
27	8	319	CHL	O1D-CGD-O2D-CED
27	8	321	CHL	C3A-C2A-CAA-CBA
27	8	321	CHL	C1C-C2C-CMC-OMC
27	8	321	CHL	C3C-C2C-CMC-OMC
27	8	321	CHL	C4C-C3C-CAC-CBC
27	8	321	CHL	CBD-CGD-O2D-CED
27	8	322	CHL	CBD-CGD-O2D-CED
27	8	322	CHL	O1D-CGD-O2D-CED
27	8	323	CHL	C3A-C2A-CAA-CBA
27	8	323	CHL	CBA-CGA-O2A-C1
27	8	323	CHL	O1A-CGA-O2A-C1
27	8	324	CHL	CBD-CGD-O2D-CED
27	8	324	CHL	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	8	325	CHL	CBD-CGD-O2D-CED
27	8	326	CHL	CBD-CGD-O2D-CED
27	L	304	CHL	CBD-CGD-O2D-CED
27	b	304	CHL	C1A-C2A-CAA-CBA
27	b	304	CHL	CBD-CGD-O2D-CED
27	b	304	CHL	O1D-CGD-O2D-CED
27	b	305	CHL	CBD-CGD-O2D-CED
27	b	306	CHL	C1A-C2A-CAA-CBA
27	b	306	CHL	CBD-CGD-O2D-CED
27	b	306	CHL	O1D-CGD-O2D-CED
27	b	307	CHL	CHA-CBD-CGD-O1D
27	b	307	CHL	CBD-CGD-O2D-CED
27	b	307	CHL	O1D-CGD-O2D-CED
27	b	308	CHL	CBD-CGD-O2D-CED
27	b	309	CHL	CBD-CGD-O2D-CED
27	b	309	CHL	O1D-CGD-O2D-CED
27	b	310	CHL	CBD-CGD-O2D-CED
27	b	310	CHL	O1D-CGD-O2D-CED
27	b	311	CHL	C1C-C2C-CMC-OMC
27	b	311	CHL	C3C-C2C-CMC-OMC
27	b	311	CHL	CBD-CGD-O2D-CED
27	b	311	CHL	O1D-CGD-O2D-CED
27	b	312	CHL	CBD-CGD-O2D-CED
27	b	312	CHL	O1D-CGD-O2D-CED
27	b	313	CHL	C1A-C2A-CAA-CBA
27	b	313	CHL	C3A-C2A-CAA-CBA
27	b	313	CHL	CBD-CGD-O2D-CED
27	b	313	CHL	O1D-CGD-O2D-CED
27	b	314	CHL	CBD-CGD-O2D-CED
27	b	314	CHL	O1D-CGD-O2D-CED
27	b	315	CHL	C1A-C2A-CAA-CBA
27	b	315	CHL	C3A-C2A-CAA-CBA
27	b	315	CHL	C4C-C3C-CAC-CBC
27	b	315	CHL	CBD-CGD-O2D-CED
27	b	315	CHL	O1D-CGD-O2D-CED
27	b	316	CHL	C1C-C2C-CMC-OMC
27	b	316	CHL	C3C-C2C-CMC-OMC
27	b	316	CHL	C4C-C3C-CAC-CBC
27	b	316	CHL	CBD-CGD-O2D-CED
27	b	316	CHL	O1D-CGD-O2D-CED
27	b	317	CHL	CHA-CBD-CGD-O2D
27	b	317	CHL	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	b	317	CHL	O1D-CGD-O2D-CED
28	B	809	DGD	C2B-C1B-O2G-C2G
28	B	809	DGD	O2G-C2G-C3G-O3G
29	F	303	LUT	C5-C6-C7-C8
29	F	303	LUT	C7-C8-C9-C19
29	F	303	LUT	C11-C10-C9-C8
29	F	303	LUT	C20-C13-C14-C15
29	F	303	LUT	C27-C28-C29-C30
29	F	303	LUT	C39-C29-C30-C31
29	F	303	LUT	C31-C32-C33-C34
29	F	303	LUT	C40-C33-C34-C35
29	J	103	LUT	C5-C6-C7-C8
29	J	103	LUT	C11-C10-C9-C19
29	J	103	LUT	C11-C12-C13-C20
29	J	103	LUT	C20-C13-C14-C15
29	J	103	LUT	C28-C29-C30-C31
29	J	103	LUT	C39-C29-C30-C31
29	J	103	LUT	C40-C33-C34-C35
29	a	302	LUT	C5-C6-C7-C8
29	a	302	LUT	C7-C8-C9-C19
29	a	302	LUT	C11-C10-C9-C19
29	a	302	LUT	C11-C12-C13-C14
29	a	302	LUT	C20-C13-C14-C15
29	a	302	LUT	C40-C33-C34-C35
29	a	304	LUT	C5-C6-C7-C8
29	a	304	LUT	C7-C8-C9-C19
29	a	304	LUT	C11-C10-C9-C8
29	a	304	LUT	C11-C10-C9-C19
29	a	304	LUT	C11-C12-C13-C20
29	a	304	LUT	C12-C13-C14-C15
29	a	304	LUT	C20-C13-C14-C15
29	a	304	LUT	C39-C29-C30-C31
29	a	304	LUT	C29-C30-C31-C32
29	a	304	LUT	C40-C33-C34-C35
29	3	304	LUT	C5-C6-C7-C8
29	3	304	LUT	C7-C8-C9-C10
29	3	304	LUT	C11-C10-C9-C19
29	3	304	LUT	C11-C12-C13-C14
29	3	304	LUT	C20-C13-C14-C15
29	3	304	LUT	C28-C29-C30-C31
29	3	304	LUT	C40-C33-C34-C35
29	3	305	LUT	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
29	3	305	LUT	C11-C10-C9-C19
29	3	305	LUT	C11-C12-C13-C20
29	3	305	LUT	C20-C13-C14-C15
29	3	305	LUT	C27-C28-C29-C30
29	3	305	LUT	C39-C29-C30-C31
29	3	305	LUT	C40-C33-C34-C35
29	4	301	LUT	C7-C8-C9-C19
29	4	301	LUT	C11-C10-C9-C19
29	4	301	LUT	C20-C13-C14-C15
29	4	301	LUT	C27-C28-C29-C39
29	4	301	LUT	C39-C29-C30-C31
29	4	301	LUT	C40-C33-C34-C35
29	4	302	LUT	C11-C10-C9-C8
29	4	302	LUT	C11-C10-C9-C19
29	4	302	LUT	C11-C12-C13-C20
29	4	302	LUT	C20-C13-C14-C15
29	4	302	LUT	C28-C29-C30-C31
29	4	302	LUT	C31-C32-C33-C34
29	4	302	LUT	C31-C32-C33-C40
29	4	302	LUT	C40-C33-C34-C35
29	5	302	LUT	C5-C6-C7-C8
29	5	302	LUT	C7-C8-C9-C19
29	5	302	LUT	C11-C10-C9-C19
29	5	302	LUT	C11-C12-C13-C14
29	5	302	LUT	C20-C13-C14-C15
29	5	302	LUT	C28-C29-C30-C31
29	5	302	LUT	C29-C30-C31-C32
29	5	302	LUT	C31-C32-C33-C34
29	5	302	LUT	C40-C33-C34-C35
29	5	303	LUT	C5-C6-C7-C8
29	5	303	LUT	C11-C10-C9-C8
29	5	303	LUT	C11-C10-C9-C19
29	5	303	LUT	C12-C13-C14-C15
29	5	303	LUT	C20-C13-C14-C15
29	5	303	LUT	C13-C14-C15-C35
29	5	303	LUT	C27-C28-C29-C30
29	5	303	LUT	C39-C29-C30-C31
29	5	303	LUT	C40-C33-C34-C35
29	6	302	LUT	C5-C6-C7-C8
29	6	302	LUT	C11-C10-C9-C19
29	6	302	LUT	C11-C12-C13-C14
29	6	302	LUT	C20-C13-C14-C15

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Mol	Chain	Res	Type	Atoms
29	6	302	LUT	C27-C28-C29-C30
29	6	302	LUT	C28-C29-C30-C31
29	6	302	LUT	C39-C29-C30-C31
29	6	302	LUT	C31-C32-C33-C34
29	6	302	LUT	C31-C32-C33-C40
29	6	302	LUT	C32-C33-C34-C35
29	6	302	LUT	C40-C33-C34-C35
29	6	303	LUT	C11-C10-C9-C8
29	6	303	LUT	C11-C10-C9-C19
29	6	303	LUT	C11-C12-C13-C14
29	6	303	LUT	C11-C12-C13-C20
29	6	303	LUT	C27-C28-C29-C30
29	6	303	LUT	C39-C29-C30-C31
29	6	303	LUT	C40-C33-C34-C35
29	7	304	LUT	C5-C6-C7-C8
29	7	304	LUT	C7-C8-C9-C10
29	7	304	LUT	C11-C10-C9-C19
29	7	304	LUT	C20-C13-C14-C15
29	7	304	LUT	C39-C29-C30-C31
29	7	304	LUT	C40-C33-C34-C35
29	8	303	LUT	C5-C6-C7-C8
29	8	303	LUT	C11-C10-C9-C19
29	8	303	LUT	C20-C13-C14-C15
29	8	303	LUT	C28-C29-C30-C31
29	8	303	LUT	C40-C33-C34-C35
29	8	304	LUT	C11-C10-C9-C8
29	8	304	LUT	C20-C13-C14-C15
29	8	304	LUT	C39-C29-C30-C31
29	8	304	LUT	C40-C33-C34-C35
29	8	304	LUT	C33-C34-C35-C15
29	b	301	LUT	C5-C6-C7-C8
29	b	301	LUT	C7-C8-C9-C10
29	b	301	LUT	C11-C10-C9-C8
29	b	301	LUT	C11-C10-C9-C19
29	b	301	LUT	C11-C12-C13-C14
29	b	301	LUT	C11-C12-C13-C20
29	b	301	LUT	C12-C13-C14-C15
29	b	301	LUT	C39-C29-C30-C31
29	b	301	LUT	C40-C33-C34-C35
29	b	303	LUT	C10-C11-C12-C13
29	b	303	LUT	C11-C12-C13-C14
29	b	303	LUT	C14-C15-C35-C34

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Mol	Chain	Res	Type	Atoms
29	b	303	LUT	C26-C27-C28-C29
29	b	303	LUT	C28-C29-C30-C31
29	b	303	LUT	C39-C29-C30-C31
29	b	303	LUT	C30-C31-C32-C33
29	b	303	LUT	C31-C32-C33-C34
29	b	303	LUT	C31-C32-C33-C40
30	J	104	LMG	C2-C1-O1-C7
30	J	104	LMG	O6-C1-O1-C7
30	J	104	LMG	O9-C10-O7-C8
30	8	307	LMG	O9-C10-O7-C8
30	8	307	LMG	C11-C10-O7-C8
32	5	305	PTY	C3-O11-P1-O14
32	5	305	PTY	C5-O14-P1-O11
32	5	305	PTY	C5-O14-P1-O12
32	5	305	PTY	C5-O14-P1-O13
33	7	305	XAT	C11-C10-C9-C8
33	7	305	XAT	C11-C10-C9-C19
33	7	305	XAT	C10-C11-C12-C13
34	8	301	SQD	O5-C5-C6-S
35	8	306	DGA	CG1-CG2-CG3-OXT
35	8	306	DGA	OG2-CG2-CG3-OXT
27	A	816	CHL	O1D-CGD-O2D-CED
27	A	820	CHL	O1D-CGD-O2D-CED
27	A	821	CHL	O1D-CGD-O2D-CED
27	A	823	CHL	O1D-CGD-O2D-CED
27	A	826	CHL	O1D-CGD-O2D-CED
27	A	832	CHL	O1D-CGD-O2D-CED
27	A	835	CHL	O1D-CGD-O2D-CED
27	A	836	CHL	O1D-CGD-O2D-CED
27	A	848	CHL	O1D-CGD-O2D-CED
27	A	849	CHL	O1D-CGD-O2D-CED
27	A	854	CHL	O1D-CGD-O2D-CED
27	A	859	CHL	O1D-CGD-O2D-CED
27	B	824	CHL	O1D-CGD-O2D-CED
27	B	827	CHL	O1D-CGD-O2D-CED
27	B	828	CHL	O1D-CGD-O2D-CED
27	B	829	CHL	O1D-CGD-O2D-CED
27	B	831	CHL	O1D-CGD-O2D-CED
27	B	834	CHL	O1D-CGD-O2D-CED
27	B	838	CHL	O1D-CGD-O2D-CED
27	B	841	CHL	O1D-CGD-O2D-CED
27	B	842	CHL	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	B	845	CHL	O1D-CGD-O2D-CED
27	B	847	CHL	O1D-CGD-O2D-CED
27	B	850	CHL	O1D-CGD-O2D-CED
27	K	205	CHL	O1D-CGD-O2D-CED
27	K	206	CHL	O1D-CGD-O2D-CED
27	a	308	CHL	O1D-CGD-O2D-CED
27	a	309	CHL	O1D-CGD-O2D-CED
27	a	311	CHL	O1D-CGD-O2D-CED
27	3	315	CHL	O1D-CGD-O2D-CED
27	3	320	CHL	O1D-CGD-O2D-CED
27	4	307	CHL	O1D-CGD-O2D-CED
27	4	317	CHL	O1D-CGD-O2D-CED
27	5	307	CHL	O1D-CGD-O2D-CED
27	5	310	CHL	O1D-CGD-O2D-CED
27	5	312	CHL	O1D-CGD-O2D-CED
27	5	318	CHL	O1D-CGD-O2D-CED
27	5	323	CHL	O1D-CGD-O2D-CED
27	6	313	CHL	O1D-CGD-O2D-CED
27	7	311	CHL	O1D-CGD-O2D-CED
27	8	318	CHL	O1D-CGD-O2D-CED
27	8	320	CHL	O1D-CGD-O2D-CED
27	L	304	CHL	O1D-CGD-O2D-CED
27	b	305	CHL	O1D-CGD-O2D-CED
27	A	819	CHL	O1D-CGD-O2D-CED
27	A	822	CHL	O1D-CGD-O2D-CED
27	A	824	CHL	O1D-CGD-O2D-CED
27	A	825	CHL	O1D-CGD-O2D-CED
27	A	830	CHL	O1D-CGD-O2D-CED
27	A	834	CHL	O1D-CGD-O2D-CED
27	A	838	CHL	O1D-CGD-O2D-CED
27	A	840	CHL	O1D-CGD-O2D-CED
27	A	845	CHL	O1D-CGD-O2D-CED
27	A	851	CHL	O1D-CGD-O2D-CED
27	A	857	CHL	O1D-CGD-O2D-CED
27	B	813	CHL	O1D-CGD-O2D-CED
27	B	816	CHL	O1D-CGD-O2D-CED
27	B	817	CHL	O1D-CGD-O2D-CED
27	B	825	CHL	O1D-CGD-O2D-CED
27	B	826	CHL	O1D-CGD-O2D-CED
27	B	833	CHL	O1D-CGD-O2D-CED
27	B	837	CHL	O1D-CGD-O2D-CED
27	B	840	CHL	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	K	204	CHL	O1D-CGD-O2D-CED
27	a	310	CHL	O1D-CGD-O2D-CED
27	a	312	CHL	O1D-CGD-O2D-CED
27	3	308	CHL	O1D-CGD-O2D-CED
27	3	309	CHL	O1D-CGD-O2D-CED
27	3	311	CHL	O1D-CGD-O2D-CED
27	3	314	CHL	O1D-CGD-O2D-CED
27	3	317	CHL	O1D-CGD-O2D-CED
27	3	321	CHL	O1D-CGD-O2D-CED
27	4	308	CHL	O1D-CGD-O2D-CED
27	4	320	CHL	O1D-CGD-O2D-CED
27	5	308	CHL	O1D-CGD-O2D-CED
27	5	311	CHL	O1D-CGD-O2D-CED
27	5	321	CHL	O1D-CGD-O2D-CED
27	6	310	CHL	O1D-CGD-O2D-CED
27	6	317	CHL	O1D-CGD-O2D-CED
27	6	319	CHL	O1D-CGD-O2D-CED
27	7	314	CHL	O1D-CGD-O2D-CED
27	7	318	CHL	O1D-CGD-O2D-CED
27	7	323	CHL	O1D-CGD-O2D-CED
27	8	315	CHL	O1D-CGD-O2D-CED
27	A	819	CHL	CBD-CGD-O2D-CED
27	A	820	CHL	CBD-CGD-O2D-CED
27	A	822	CHL	CBD-CGD-O2D-CED
27	A	823	CHL	CBD-CGD-O2D-CED
27	A	829	CHL	CBD-CGD-O2D-CED
27	A	831	CHL	CBD-CGD-O2D-CED
27	A	832	CHL	CBD-CGD-O2D-CED
27	A	834	CHL	CBD-CGD-O2D-CED
27	A	835	CHL	CBD-CGD-O2D-CED
27	A	840	CHL	CBD-CGD-O2D-CED
27	A	841	CHL	CBD-CGD-O2D-CED
27	A	845	CHL	CBD-CGD-O2D-CED
27	A	851	CHL	CBD-CGD-O2D-CED
27	A	857	CHL	CBD-CGD-O2D-CED
27	B	813	CHL	CBD-CGD-O2D-CED
27	B	817	CHL	CBD-CGD-O2D-CED
27	B	819	CHL	CBD-CGD-O2D-CED
27	B	822	CHL	CBD-CGD-O2D-CED
27	B	824	CHL	CBD-CGD-O2D-CED
27	B	826	CHL	CBD-CGD-O2D-CED
27	B	827	CHL	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	B	834	CHL	CBD-CGD-O2D-CED
27	B	837	CHL	CBD-CGD-O2D-CED
27	B	840	CHL	CBD-CGD-O2D-CED
27	B	841	CHL	CBD-CGD-O2D-CED
27	K	204	CHL	CBD-CGD-O2D-CED
27	a	310	CHL	CBD-CGD-O2D-CED
27	3	311	CHL	CBD-CGD-O2D-CED
27	3	315	CHL	CBD-CGD-O2D-CED
27	3	320	CHL	CBD-CGD-O2D-CED
27	4	315	CHL	CBD-CGD-O2D-CED
27	4	319	CHL	CBD-CGD-O2D-CED
27	5	312	CHL	CBD-CGD-O2D-CED
27	7	314	CHL	CBD-CGD-O2D-CED
27	7	323	CHL	CBD-CGD-O2D-CED
27	8	315	CHL	CBD-CGD-O2D-CED
27	8	318	CHL	CBD-CGD-O2D-CED
27	8	319	CHL	CBD-CGD-O2D-CED
27	8	320	CHL	CBD-CGD-O2D-CED
24	A	810	LHG	O10-C23-O8-C6
27	A	843	CHL	O1A-CGA-O2A-C1
27	B	846	CHL	O1A-CGA-O2A-C1
27	A	829	CHL	O1D-CGD-O2D-CED
27	A	839	CHL	O1D-CGD-O2D-CED
27	A	842	CHL	O1D-CGD-O2D-CED
27	A	850	CHL	O1D-CGD-O2D-CED
27	A	853	CHL	O1D-CGD-O2D-CED
27	B	848	CHL	O1D-CGD-O2D-CED
27	a	318	CHL	O1D-CGD-O2D-CED
27	4	305	CHL	O1D-CGD-O2D-CED
27	4	312	CHL	O1D-CGD-O2D-CED
27	5	309	CHL	O1D-CGD-O2D-CED
27	6	309	CHL	O1D-CGD-O2D-CED
27	6	314	CHL	O1D-CGD-O2D-CED
27	7	312	CHL	O1D-CGD-O2D-CED
27	7	317	CHL	O1D-CGD-O2D-CED
27	7	322	CHL	O1D-CGD-O2D-CED
27	8	313	CHL	O1D-CGD-O2D-CED
27	8	317	CHL	O1D-CGD-O2D-CED
27	8	321	CHL	O1D-CGD-O2D-CED
27	8	325	CHL	O1D-CGD-O2D-CED
27	A	827	CHL	O1D-CGD-O2D-CED
27	A	847	CHL	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	A	852	CHL	O1D-CGD-O2D-CED
27	B	815	CHL	O1D-CGD-O2D-CED
27	B	820	CHL	O1D-CGD-O2D-CED
27	B	823	CHL	O1D-CGD-O2D-CED
27	B	844	CHL	O1D-CGD-O2D-CED
27	B	846	CHL	O1D-CGD-O2D-CED
27	B	851	CHL	O1D-CGD-O2D-CED
27	F	308	CHL	O1D-CGD-O2D-CED
27	3	312	CHL	O1D-CGD-O2D-CED
27	3	313	CHL	O1D-CGD-O2D-CED
27	4	319	CHL	O1D-CGD-O2D-CED
27	7	313	CHL	O1D-CGD-O2D-CED
27	8	312	CHL	O1D-CGD-O2D-CED
27	8	326	CHL	O1D-CGD-O2D-CED
27	B	846	CHL	CBA-CGA-O2A-C1
24	4	303	LHG	O10-C23-O8-C6
30	J	101	LMG	O10-C28-O8-C9
30	a	301	LMG	O10-C28-O8-C9
32	5	305	PTY	O30-C30-O4-C1
35	8	306	DGA	OA1-CA1-OG1-CG1
27	5	316	CHL	C5-C6-C7-C8
27	A	818	CHL	O1D-CGD-O2D-CED
27	b	308	CHL	O1D-CGD-O2D-CED
28	B	809	DGD	O1B-C1B-O2G-C2G
27	A	823	CHL	C3-C5-C6-C7
27	A	826	CHL	C3-C5-C6-C7
27	B	821	CHL	C3-C5-C6-C7
27	B	827	CHL	C3-C5-C6-C7
27	B	829	CHL	C3-C5-C6-C7
27	B	833	CHL	C3-C5-C6-C7
27	B	837	CHL	C3-C5-C6-C7
27	a	311	CHL	C3-C5-C6-C7
27	a	313	CHL	C3-C5-C6-C7
27	3	310	CHL	C3-C5-C6-C7
27	3	314	CHL	C3-C5-C6-C7
27	5	318	CHL	C3-C5-C6-C7
27	6	310	CHL	C3-C5-C6-C7
27	7	316	CHL	C3-C5-C6-C7
27	7	317	CHL	C3-C5-C6-C7
27	5	317	CHL	O1D-CGD-O2D-CED
24	A	810	LHG	C24-C23-O8-C6
27	8	312	CHL	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
30	J	101	LMG	C29-C28-O8-C9
30	a	301	LMG	C29-C28-O8-C9
32	5	305	PTY	C31-C30-O4-C1
35	8	306	DGA	CA2-CA1-OG1-CG1
30	7	301	LMG	O6-C5-C6-O5
27	A	827	CHL	CBD-CGD-O2D-CED
27	B	823	CHL	CBD-CGD-O2D-CED
27	B	833	CHL	CBD-CGD-O2D-CED
27	5	316	CHL	CBD-CGD-O2D-CED
27	7	320	CHL	C2C-C3C-CAC-CBC
27	A	826	CHL	C4-C3-C5-C6
27	A	847	CHL	C4-C3-C5-C6
27	B	837	CHL	C4-C3-C5-C6
27	B	841	CHL	C4-C3-C5-C6
27	3	317	CHL	C4-C3-C5-C6
27	3	319	CHL	C4-C3-C5-C6
27	8	321	CHL	C4-C3-C5-C6
27	A	830	CHL	C2-C3-C5-C6
27	B	837	CHL	C2-C3-C5-C6
27	B	841	CHL	C2-C3-C5-C6
27	3	319	CHL	C2-C3-C5-C6
27	5	309	CHL	C2-C3-C5-C6
27	5	313	CHL	C2-C3-C5-C6
27	6	308	CHL	C2-C3-C5-C6
27	8	321	CHL	C2-C3-C5-C6
27	4	316	CHL	C2C-C3C-CAC-CBC
27	6	316	CHL	C2C-C3C-CAC-CBC
27	a	314	CHL	C2A-CAA-CBA-CGA
27	A	831	CHL	C3-C5-C6-C7
27	B	823	CHL	C3-C5-C6-C7
27	6	307	CHL	C3-C5-C6-C7
27	a	316	CHL	C2C-C3C-CAC-CBC
24	4	303	LHG	C24-C23-O8-C6
27	B	851	CHL	CBA-CGA-O2A-C1
27	8	317	CHL	CBA-CGA-O2A-C1
30	8	307	LMG	C29-C28-O8-C9
23	5	306	LMT	C4B-C5B-C6B-O6B
29	a	302	LUT	C29-C30-C31-C32
29	4	301	LUT	C29-C30-C31-C32
29	4	302	LUT	C13-C14-C15-C35
29	4	302	LUT	C29-C30-C31-C32
29	6	302	LUT	C29-C30-C31-C32

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Mol	Chain	Res	Type	Atoms
29	7	304	LUT	C9-C10-C11-C12
29	8	303	LUT	C33-C34-C35-C15
33	7	305	XAT	C29-C30-C31-C32
27	8	312	CHL	O1A-CGA-O2A-C1
27	8	317	CHL	O1A-CGA-O2A-C1
23	5	306	LMT	O5B-C5B-C6B-O6B
23	7	308	LMT	O5B-C5B-C6B-O6B
27	b	316	CHL	C2C-C3C-CAC-CBC
27	A	832	CHL	C3-C5-C6-C7
24	a	305	LHG	C11-C12-C13-C14
24	4	303	LHG	C11-C10-C9-C8
24	A	811	LHG	O2-C2-C3-O3
27	A	831	CHL	O1D-CGD-O2D-CED
27	3	310	CHL	CBA-CGA-O2A-C1
27	7	319	CHL	CBA-CGA-O2A-C1
27	B	851	CHL	O1A-CGA-O2A-C1
27	3	310	CHL	O1A-CGA-O2A-C1
27	7	319	CHL	O1A-CGA-O2A-C1
30	a	301	LMG	O6-C5-C6-O5
27	8	321	CHL	C2C-C3C-CAC-CBC
27	A	853	CHL	C3-C5-C6-C7
23	7	308	LMT	C3'-C4'-O1B-C1B
24	8	305	LHG	C23-C24-C25-C26
23	5	326	LMT	C4'-C5'-C6'-O6'
30	7	301	LMG	C4-C5-C6-O5
27	A	858	CHL	C4-C3-C5-C6
27	7	319	CHL	C4-C3-C5-C6
27	8	319	CHL	C4-C3-C5-C6
27	A	832	CHL	C2-C3-C5-C6
27	A	858	CHL	C2-C3-C5-C6
27	3	317	CHL	C2-C3-C5-C6
27	6	306	CHL	C2-C3-C5-C6
27	7	319	CHL	C2-C3-C5-C6
27	8	319	CHL	C2-C3-C5-C6
30	8	307	LMG	O10-C28-O8-C9
30	a	301	LMG	C4-C5-C6-O5
28	B	809	DGD	O6E-C5E-C6E-O5E
27	B	846	CHL	C2A-CAA-CBA-CGA
30	8	307	LMG	O6-C1-O1-C7
27	A	831	CHL	C2C-C3C-CAC-CBC
24	4	303	LHG	C32-C33-C34-C35
24	5	304	LHG	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
27	A	818	CHL	CBD-CGD-O2D-CED
27	B	849	CHL	CBD-CGD-O2D-CED
27	6	308	CHL	CBD-CGD-O2D-CED
24	a	305	LHG	C15-C16-C17-C18
29	F	303	LUT	C29-C30-C31-C32
29	3	304	LUT	C29-C30-C31-C32
29	6	303	LUT	C33-C34-C35-C15
27	a	311	CHL	O1A-CGA-O2A-C1
24	B	808	LHG	C24-C23-O8-C6
27	A	831	CHL	CBA-CGA-O2A-C1
27	A	836	CHL	CBA-CGA-O2A-C1
27	A	847	CHL	CBA-CGA-O2A-C1
27	B	820	CHL	CBA-CGA-O2A-C1
27	a	311	CHL	CBA-CGA-O2A-C1
27	5	313	CHL	CBA-CGA-O2A-C1
27	5	315	CHL	CBA-CGA-O2A-C1
27	b	315	CHL	CBA-CGA-O2A-C1
24	a	305	LHG	C9-C10-C11-C12
24	5	304	LHG	C25-C26-C27-C28
24	a	305	LHG	C17-C18-C19-C20
27	A	832	CHL	C4-C3-C5-C6
27	B	820	CHL	C4-C3-C5-C6
27	3	315	CHL	C4-C3-C5-C6
27	6	306	CHL	C4-C3-C5-C6
27	A	826	CHL	C2-C3-C5-C6
27	A	847	CHL	C2-C3-C5-C6
27	B	820	CHL	C2-C3-C5-C6
27	3	315	CHL	C2-C3-C5-C6
27	5	323	CHL	C3-C5-C6-C7
27	A	843	CHL	C14-C13-C15-C16
27	B	817	CHL	C6-C7-C8-C9
27	6	308	CHL	C14-C13-C15-C16
27	7	319	CHL	C6-C7-C8-C9
27	8	321	CHL	C14-C13-C15-C16
28	B	809	DGD	C4E-C5E-C6E-O5E
30	8	307	LMG	C2-C1-O1-C7
24	a	305	LHG	C13-C14-C15-C16
24	a	305	LHG	C32-C33-C34-C35
27	5	317	CHL	C2C-C3C-CAC-CBC
27	6	318	CHL	C2C-C3C-CAC-CBC
24	4	303	LHG	O2-C2-C3-O3
24	5	324	LHG	O2-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
27	7	320	CHL	O1D-CGD-O2D-CED
23	7	308	LMT	C4B-C5B-C6B-O6B
27	7	321	CHL	CBD-CGD-O2D-CED
22	A	807	BCR	C7-C8-C9-C34
22	I	801	BCR	C11-C12-C13-C35
22	K	202	BCR	C37-C22-C23-C24
22	3	302	BCR	C7-C8-C9-C34
22	3	302	BCR	C11-C12-C13-C35
22	5	301	BCR	C37-C22-C23-C24
22	6	301	BCR	C36-C18-C19-C20
22	L	301	BCR	C7-C8-C9-C34
22	L	301	BCR	C37-C22-C23-C24
22	L	302	BCR	C37-C22-C23-C24
29	F	303	LUT	C31-C32-C33-C40
29	J	103	LUT	C7-C8-C9-C19
29	a	304	LUT	C27-C28-C29-C39
29	a	304	LUT	C31-C32-C33-C40
29	3	305	LUT	C7-C8-C9-C19
29	4	301	LUT	C11-C12-C13-C20
29	5	302	LUT	C31-C32-C33-C40
29	5	303	LUT	C7-C8-C9-C19
29	5	303	LUT	C11-C12-C13-C20
29	6	302	LUT	C7-C8-C9-C19
29	6	303	LUT	C27-C28-C29-C39
29	7	304	LUT	C7-C8-C9-C19
29	8	303	LUT	C7-C8-C9-C19
29	8	304	LUT	C7-C8-C9-C19
29	8	304	LUT	C11-C12-C13-C20
29	8	304	LUT	C27-C28-C29-C39
29	b	301	LUT	C7-C8-C9-C19
29	b	303	LUT	C11-C12-C13-C20
29	b	303	LUT	C27-C28-C29-C39
23	5	326	LMT	O5'-C5'-C6'-O6'
22	K	202	BCR	C21-C22-C23-C24
22	6	301	BCR	C17-C18-C19-C20
22	L	301	BCR	C7-C8-C9-C10
22	L	301	BCR	C21-C22-C23-C24
29	J	103	LUT	C11-C12-C13-C14
29	a	302	LUT	C27-C28-C29-C30
29	3	304	LUT	C27-C28-C29-C30
29	3	304	LUT	C31-C32-C33-C34
29	3	305	LUT	C31-C32-C33-C34

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Mol	Chain	Res	Type	Atoms
29	4	301	LUT	C31-C32-C33-C34
29	6	303	LUT	C31-C32-C33-C34
29	7	304	LUT	C11-C12-C13-C14
29	7	304	LUT	C27-C28-C29-C30
29	7	304	LUT	C31-C32-C33-C34
29	8	303	LUT	C11-C12-C13-C14
29	8	303	LUT	C27-C28-C29-C30
29	8	303	LUT	C31-C32-C33-C34
29	8	304	LUT	C31-C32-C33-C34
29	b	301	LUT	C31-C32-C33-C34
29	b	303	LUT	C27-C28-C29-C30
27	5	319	CHL	C2C-C3C-CAC-CBC
27	A	831	CHL	O1A-CGA-O2A-C1
27	A	836	CHL	O1A-CGA-O2A-C1
27	5	315	CHL	O1A-CGA-O2A-C1
27	3	317	CHL	C3-C5-C6-C7
32	5	305	PTY	C11-C8-O7-C6
24	5	324	LHG	O7-C5-C6-O8
30	7	301	LMG	O7-C8-C9-O8
24	A	810	LHG	C23-C24-C25-C26
23	A	809	LMT	O5'-C5'-C6'-O6'
23	A	809	LMT	C4'-C5'-C6'-O6'
27	5	313	CHL	O1A-CGA-O2A-C1
27	A	843	CHL	C11-C10-C8-C7
27	5	309	CHL	C6-C7-C8-C10
27	A	832	CHL	CBA-CGA-O2A-C1
27	B	821	CHL	CBA-CGA-O2A-C1
24	b	302	LHG	C28-C29-C30-C31
24	5	304	LHG	C7-C8-C9-C10
29	J	103	LUT	C9-C10-C11-C12
29	4	302	LUT	C9-C10-C11-C12
29	5	303	LUT	C29-C30-C31-C32
29	6	303	LUT	C13-C14-C15-C35
29	7	304	LUT	C29-C30-C31-C32
29	8	303	LUT	C29-C30-C31-C32
29	8	304	LUT	C29-C30-C31-C32
29	b	303	LUT	C29-C30-C31-C32
29	b	303	LUT	C33-C34-C35-C15
24	4	303	LHG	C10-C11-C12-C13
27	B	817	CHL	C3-C5-C6-C7
27	8	316	CHL	C3-C5-C6-C7
20	A	801	PQN	C25-C26-C27-C28

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Mol	Chain	Res	Type	Atoms
27	5	316	CHL	C8-C10-C11-C12
27	8	315	CHL	C13-C15-C16-C17
24	7	302	LHG	C28-C29-C30-C31
24	B	808	LHG	C23-C24-C25-C26
24	5	304	LHG	C23-C24-C25-C26
24	5	324	LHG	C23-C24-C25-C26
28	B	809	DGD	C1B-C2B-C3B-C4B
30	J	101	LMG	C10-C11-C12-C13
27	A	847	CHL	O1A-CGA-O2A-C1
27	B	820	CHL	O1A-CGA-O2A-C1
27	A	838	CHL	C10-C11-C12-C13
27	B	815	CHL	C5-C6-C7-C8
27	B	840	CHL	C8-C10-C11-C12
27	3	311	CHL	C5-C6-C7-C8
27	8	316	CHL	C8-C10-C11-C12
27	L	303	CHL	C10-C11-C12-C13
23	A	808	LMT	O5B-C5B-C6B-O6B
27	A	838	CHL	C2A-CAA-CBA-CGA
27	A	844	CHL	C2A-CAA-CBA-CGA
27	a	315	CHL	C2A-CAA-CBA-CGA
27	6	305	CHL	C2A-CAA-CBA-CGA
27	6	318	CHL	C2A-CAA-CBA-CGA
27	b	313	CHL	C2A-CAA-CBA-CGA
27	A	825	CHL	C5-C6-C7-C8
27	A	843	CHL	C8-C10-C11-C12
27	3	308	CHL	C10-C11-C12-C13
27	6	308	CHL	C10-C11-C12-C13
27	7	313	CHL	C8-C10-C11-C12
30	8	307	LMG	C28-C29-C30-C31
34	8	301	SQD	C7-C8-C9-C10
27	b	315	CHL	O1A-CGA-O2A-C1
27	A	821	CHL	C3-C5-C6-C7
23	B	810	LMT	O5'-C1'-O1'-C1
23	F	302	LMT	O5'-C1'-O1'-C1
27	5	316	CHL	O1D-CGD-O2D-CED
27	A	843	CHL	C13-C15-C16-C17
27	A	843	CHL	C15-C16-C17-C18
27	B	832	CHL	C15-C16-C17-C18
27	B	846	CHL	C5-C6-C7-C8
27	a	313	CHL	C5-C6-C7-C8
27	3	314	CHL	C8-C10-C11-C12
27	7	322	CHL	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
27	8	317	CHL	C15-C16-C17-C18
27	L	303	CHL	C5-C6-C7-C8
32	5	305	PTY	C8-C11-C12-C13
27	B	842	CHL	C8-C10-C11-C12
27	3	308	CHL	C13-C15-C16-C17
27	5	316	CHL	C13-C15-C16-C17
24	7	306	LHG	C7-C8-C9-C10
27	A	833	CHL	C8-C10-C11-C12
27	8	312	CHL	C15-C16-C17-C18
27	B	811	CHL	CBA-CGA-O2A-C1
27	a	313	CHL	CBA-CGA-O2A-C1
24	5	304	LHG	C8-C7-O7-C5
30	J	104	LMG	C11-C10-O7-C8
27	A	832	CHL	O1A-CGA-O2A-C1
27	B	833	CHL	C5-C6-C7-C8
29	J	103	LUT	C33-C34-C35-C15
29	3	305	LUT	C29-C30-C31-C32
29	5	302	LUT	C33-C34-C35-C15
29	5	303	LUT	C33-C34-C35-C15
29	6	303	LUT	C29-C30-C31-C32
29	b	301	LUT	C29-C30-C31-C32
27	B	821	CHL	O1A-CGA-O2A-C1
24	5	304	LHG	O9-C7-O7-C5
32	5	305	PTY	O10-C8-O7-C6
24	A	811	LHG	C1-C2-C3-O3
24	7	302	LHG	C1-C2-C3-O3
27	4	310	CHL	C2A-CAA-CBA-CGA
27	4	311	CHL	C2A-CAA-CBA-CGA
27	4	320	CHL	C2A-CAA-CBA-CGA
27	3	315	CHL	CBA-CGA-O2A-C1
27	7	317	CHL	CBA-CGA-O2A-C1
27	5	315	CHL	C10-C11-C12-C13
24	a	305	LHG	C30-C31-C32-C33
27	B	848	CHL	C15-C16-C17-C18
27	A	825	CHL	C8-C10-C11-C12
27	A	828	CHL	C15-C16-C17-C18
27	3	308	CHL	C8-C10-C11-C12
27	3	312	CHL	C5-C6-C7-C8
27	5	316	CHL	C10-C11-C12-C13
27	8	312	CHL	C3-C5-C6-C7
27	8	321	CHL	C3-C5-C6-C7
24	5	304	LHG	C12-C13-C14-C15

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Mol	Chain	Res	Type	Atoms
23	F	302	LMT	C2'-C1'-O1'-C1
28	7	307	DGD	C1B-C2B-C3B-C4B
24	A	810	LHG	O2-C2-C3-O3
24	7	306	LHG	O2-C2-C3-O3
24	b	302	LHG	O2-C2-C3-O3
27	A	839	CHL	CBA-CGA-O2A-C1
27	4	308	CHL	CBA-CGA-O2A-C1
22	A	803	BCR	C16-C17-C18-C36
22	B	803	BCR	C20-C21-C22-C37
22	B	806	BCR	C20-C21-C22-C37
22	B	807	BCR	C20-C21-C22-C37
22	F	301	BCR	C35-C13-C14-C15
22	3	301	BCR	C20-C21-C22-C37
22	3	302	BCR	C20-C21-C22-C37
22	3	303	BCR	C20-C21-C22-C37
22	6	301	BCR	C35-C13-C14-C15
22	8	302	BCR	C20-C21-C22-C37
29	a	302	LUT	C39-C29-C30-C31
29	3	304	LUT	C39-C29-C30-C31
29	5	302	LUT	C39-C29-C30-C31
29	6	303	LUT	C20-C13-C14-C15
29	8	303	LUT	C39-C29-C30-C31
29	8	304	LUT	C11-C10-C9-C19
29	b	301	LUT	C20-C13-C14-C15
29	b	303	LUT	C20-C13-C14-C15
29	b	303	LUT	C40-C33-C34-C35
27	B	822	CHL	C10-C11-C12-C13
22	B	805	BCR	C7-C8-C9-C34
22	3	301	BCR	C37-C22-C23-C24
29	F	303	LUT	C11-C12-C13-C20
29	J	103	LUT	C31-C32-C33-C40
29	4	302	LUT	C7-C8-C9-C19
29	4	302	LUT	C27-C28-C29-C39
29	6	303	LUT	C7-C8-C9-C19
29	b	301	LUT	C27-C28-C29-C39
33	7	305	XAT	C11-C12-C13-C20
22	F	301	BCR	C21-C22-C23-C24
22	M	102	BCR	C7-C8-C9-C10
22	3	302	BCR	C7-C8-C9-C10
22	5	301	BCR	C21-C22-C23-C24
29	J	103	LUT	C27-C28-C29-C30
29	a	302	LUT	C31-C32-C33-C34

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Mol	Chain	Res	Type	Atoms
29	4	301	LUT	C11-C12-C13-C14
29	4	302	LUT	C7-C8-C9-C10
29	4	302	LUT	C11-C12-C13-C14
29	5	302	LUT	C27-C28-C29-C30
29	5	303	LUT	C31-C32-C33-C34
27	A	816	CHL	C2A-CAA-CBA-CGA
27	A	823	CHL	C2A-CAA-CBA-CGA
27	A	826	CHL	C2A-CAA-CBA-CGA
27	B	832	CHL	C2A-CAA-CBA-CGA
27	B	851	CHL	C2A-CAA-CBA-CGA
27	6	317	CHL	C2A-CAA-CBA-CGA
27	8	317	CHL	C2A-CAA-CBA-CGA
27	b	315	CHL	C13-C15-C16-C17
24	a	305	LHG	O1-C1-C2-C3
24	5	324	LHG	O1-C1-C2-C3
24	7	302	LHG	O1-C1-C2-C3
22	6	301	BCR	C19-C20-C21-C22
27	5	316	CHL	C16-C17-C18-C20
23	F	302	LMT	O1'-C1-C2-C3
27	a	310	CHL	C3-C5-C6-C7
27	L	303	CHL	C3-C5-C6-C7
22	A	806	BCR	C20-C21-C22-C23
22	A	807	BCR	C11-C10-C9-C8
22	B	804	BCR	C11-C10-C9-C8
22	I	801	BCR	C16-C17-C18-C19
22	I	801	BCR	C20-C21-C22-C23
22	M	102	BCR	C11-C10-C9-C8
22	5	301	BCR	C20-C21-C22-C23
22	6	301	BCR	C12-C13-C14-C15
22	8	302	BCR	C20-C21-C22-C23
22	L	302	BCR	C11-C10-C9-C8
29	F	303	LUT	C12-C13-C14-C15
29	F	303	LUT	C28-C29-C30-C31
29	J	103	LUT	C11-C10-C9-C8
29	a	302	LUT	C28-C29-C30-C31
29	3	304	LUT	C12-C13-C14-C15
29	3	305	LUT	C28-C29-C30-C31
29	4	301	LUT	C12-C13-C14-C15
29	4	301	LUT	C28-C29-C30-C31
29	6	303	LUT	C12-C13-C14-C15
29	6	303	LUT	C28-C29-C30-C31
29	7	304	LUT	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
29	7	304	LUT	C28-C29-C30-C31
29	8	303	LUT	C12-C13-C14-C15
29	b	303	LUT	C12-C13-C14-C15
29	b	303	LUT	C32-C33-C34-C35
27	3	313	CHL	CBA-CGA-O2A-C1
27	B	813	CHL	C3-C5-C6-C7
27	B	846	CHL	C2-C1-O2A-CGA
27	3	310	CHL	C2-C1-O2A-CGA
27	6	307	CHL	C16-C17-C18-C20
27	7	316	CHL	C6-C7-C8-C9
23	7	308	LMT	O1'-C1-C2-C3
30	J	101	LMG	C11-C12-C13-C14
27	8	318	CHL	CBA-CGA-O2A-C1
23	A	809	LMT	C2-C3-C4-C5
24	A	811	LHG	C28-C29-C30-C31
24	7	302	LHG	C32-C33-C34-C35
24	8	305	LHG	C27-C28-C29-C30
27	A	855	CHL	O1D-CGD-O2D-CED
27	A	839	CHL	C8-C10-C11-C12
23	B	810	LMT	O1'-C1-C2-C3
27	B	811	CHL	O1A-CGA-O2A-C1
24	A	812	LHG	C12-C13-C14-C15
24	A	810	LHG	O1-C1-C2-O2
24	A	811	LHG	O1-C1-C2-O2
24	b	302	LHG	O1-C1-C2-O2
24	a	305	LHG	C24-C25-C26-C27
24	A	810	LHG	C7-C8-C9-C10
30	8	307	LMG	C10-C11-C12-C13
27	5	316	CHL	C16-C17-C18-C19
27	a	313	CHL	O1A-CGA-O2A-C1
27	A	859	CHL	C2A-CAA-CBA-CGA
27	3	321	CHL	C2A-CAA-CBA-CGA
27	4	312	CHL	C2A-CAA-CBA-CGA
30	7	301	LMG	C11-C12-C13-C14
30	7	301	LMG	C32-C33-C34-C35
27	B	814	CHL	C8-C10-C11-C12
24	A	812	LHG	C8-C7-O7-C5
30	a	301	LMG	C11-C10-O7-C8
32	5	305	PTY	C31-C32-C33-C34
24	7	306	LHG	C29-C30-C31-C32
27	A	823	CHL	C5-C6-C7-C8
24	4	303	LHG	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
24	7	302	LHG	C27-C28-C29-C30
28	7	307	DGD	C5A-C6A-C7A-C8A
28	7	307	DGD	C9A-CAA-CBA-CCA
28	7	307	DGD	C5B-C6B-C7B-C8B
27	A	858	CHL	C3-C5-C6-C7
27	B	839	CHL	C3-C5-C6-C7
27	A	821	CHL	C3A-C2A-CAA-CBA
27	A	826	CHL	C3A-C2A-CAA-CBA
27	A	846	CHL	C3A-C2A-CAA-CBA
27	A	848	CHL	C3A-C2A-CAA-CBA
27	a	308	CHL	C3A-C2A-CAA-CBA
27	3	310	CHL	C3A-C2A-CAA-CBA
27	4	313	CHL	C3A-C2A-CAA-CBA
27	6	306	CHL	C3A-C2A-CAA-CBA
27	7	324	CHL	C3A-C2A-CAA-CBA
27	b	304	CHL	C3A-C2A-CAA-CBA
27	b	306	CHL	C3A-C2A-CAA-CBA
23	B	810	LMT	C6-C7-C8-C9
24	7	302	LHG	C29-C30-C31-C32
27	7	319	CHL	C5-C6-C7-C8
29	b	301	LUT	C13-C14-C15-C35
27	6	307	CHL	C16-C17-C18-C19
27	3	315	CHL	O1A-CGA-O2A-C1
27	7	317	CHL	O1A-CGA-O2A-C1
23	5	326	LMT	C6-C7-C8-C9
27	5	313	CHL	CBD-CGD-O2D-CED
24	A	810	LHG	C1-C2-C3-O3
24	b	302	LHG	C1-C2-C3-O3
23	5	326	LMT	C4-C5-C6-C7
24	a	305	LHG	C28-C29-C30-C31
30	J	101	LMG	C32-C33-C34-C35
27	B	820	CHL	C3-C5-C6-C7
27	3	312	CHL	C3-C5-C6-C7
27	5	313	CHL	C3-C5-C6-C7
24	a	305	LHG	C19-C20-C21-C22
27	B	812	CHL	C13-C15-C16-C17
24	7	306	LHG	C13-C14-C15-C16
24	7	306	LHG	C28-C29-C30-C31
28	B	809	DGD	C7A-C8A-C9A-CAA
30	J	101	LMG	C30-C31-C32-C33
27	A	839	CHL	O1A-CGA-O2A-C1
23	7	308	LMT	C5'-C4'-O1B-C1B

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Mol	Chain	Res	Type	Atoms
28	7	307	DGD	C7B-C8B-C9B-CAB
30	J	101	LMG	C35-C36-C37-C38
24	A	811	LHG	C27-C28-C29-C30
24	7	302	LHG	C17-C18-C19-C20
24	7	302	LHG	C25-C26-C27-C28
27	7	316	CHL	C6-C7-C8-C10
27	L	303	CHL	C11-C12-C13-C14
24	b	302	LHG	C23-C24-C25-C26
27	3	313	CHL	O1A-CGA-O2A-C1
27	4	308	CHL	O1A-CGA-O2A-C1
22	A	805	BCR	C1-C6-C7-C8
22	K	202	BCR	C23-C24-C25-C30
22	6	301	BCR	C1-C6-C7-C8
22	6	301	BCR	C5-C6-C7-C8
22	7	303	BCR	C23-C24-C25-C26
22	7	303	BCR	C23-C24-C25-C30
22	L	301	BCR	C23-C24-C25-C30
29	4	301	LUT	C5-C6-C7-C8
29	4	302	LUT	C1-C6-C7-C8
29	6	303	LUT	C5-C6-C7-C8
29	7	304	LUT	C1-C6-C7-C8
29	8	304	LUT	C5-C6-C7-C8
24	4	303	LHG	C30-C31-C32-C33
24	4	303	LHG	C34-C35-C36-C37
27	6	316	CHL	CBD-CGD-O2D-CED
24	4	303	LHG	C8-C7-O7-C5
27	B	822	CHL	C2C-C3C-CAC-CBC
30	J	101	LMG	C18-C19-C20-C21
27	A	825	CHL	C2A-CAA-CBA-CGA
28	B	809	DGD	C9A-CAA-CBA-CCA
30	J	101	LMG	C33-C34-C35-C36
27	A	858	CHL	C8-C10-C11-C12
27	b	315	CHL	C8-C10-C11-C12
24	b	302	LHG	C27-C28-C29-C30
28	7	307	DGD	C4A-C5A-C6A-C7A
28	7	307	DGD	CAB-CBB-CCB-CDB
30	7	301	LMG	C31-C32-C33-C34
24	A	811	LHG	C23-C24-C25-C26
27	3	319	CHL	CBA-CGA-O2A-C1
24	7	306	LHG	C32-C33-C34-C35
24	4	303	LHG	C9-C10-C11-C12
28	B	809	DGD	C2B-C3B-C4B-C5B

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Mol	Chain	Res	Type	Atoms
24	A	812	LHG	C16-C17-C18-C19
24	A	810	LHG	C27-C28-C29-C30
24	A	811	LHG	C32-C33-C34-C35
27	a	317	CHL	C3-C5-C6-C7
27	B	819	CHL	CBA-CGA-O2A-C1
29	J	103	LUT	C29-C30-C31-C32
29	3	305	LUT	C33-C34-C35-C15
24	b	302	LHG	C8-C7-O7-C5
27	A	831	CHL	C5-C6-C7-C8
23	B	810	LMT	O5'-C5'-C6'-O6'
24	4	303	LHG	O9-C7-O7-C5
30	J	101	LMG	C19-C20-C21-C22
28	7	307	DGD	CCB-CDB-CEB-CFB
27	B	829	CHL	C5-C6-C7-C8
22	B	804	BCR	C7-C8-C9-C10
22	F	301	BCR	C7-C8-C9-C10
22	M	102	BCR	C17-C18-C19-C20
30	a	301	LMG	C8-C7-O1-C1
24	A	812	LHG	C28-C29-C30-C31
24	5	304	LHG	C26-C27-C28-C29
24	7	306	LHG	C12-C13-C14-C15
28	B	809	DGD	C7B-C8B-C9B-CAB
27	A	820	CHL	C4-C3-C5-C6
27	a	313	CHL	C4-C3-C5-C6
27	b	315	CHL	C4-C3-C5-C6
27	5	316	CHL	C2C-C3C-CAC-CBC
24	A	812	LHG	C29-C30-C31-C32
24	7	302	LHG	C26-C27-C28-C29
30	a	301	LMG	C33-C34-C35-C36
24	a	305	LHG	C14-C15-C16-C17
30	J	101	LMG	C31-C32-C33-C34
27	B	841	CHL	C3-C5-C6-C7
30	7	301	LMG	C28-C29-C30-C31
24	7	306	LHG	C24-C25-C26-C27
23	F	302	LMT	O5B-C5B-C6B-O6B
24	8	305	LHG	C15-C16-C17-C18
27	A	855	CHL	C15-C16-C17-C18
27	B	838	CHL	C8-C10-C11-C12
28	7	307	DGD	CBB-CCB-CDB-CEB
27	3	319	CHL	O1A-CGA-O2A-C1
27	B	822	CHL	C3-C5-C6-C7
28	7	307	DGD	C3A-C4A-C5A-C6A

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Mol	Chain	Res	Type	Atoms
27	5	316	CHL	CBA-CGA-O2A-C1
28	7	307	DGD	C3B-C4B-C5B-C6B
23	B	810	LMT	C2-C3-C4-C5
23	7	308	LMT	C6-C7-C8-C9
23	B	810	LMT	C1-C2-C3-C4
23	5	306	LMT	C2-C3-C4-C5
24	a	305	LHG	C10-C11-C12-C13
24	7	306	LHG	C11-C10-C9-C8
24	8	305	LHG	C28-C29-C30-C31
28	B	809	DGD	C5A-C6A-C7A-C8A
30	J	101	LMG	C22-C23-C24-C25
27	B	839	CHL	C2A-CAA-CBA-CGA
27	6	306	CHL	C2A-CAA-CBA-CGA
27	A	850	CHL	CBA-CGA-O2A-C1
27	B	824	CHL	CBA-CGA-O2A-C1
27	6	308	CHL	O1D-CGD-O2D-CED
24	4	303	LHG	C12-C13-C14-C15
27	a	318	CHL	C2C-C3C-CAC-CBC
24	7	302	LHG	O1-C1-C2-O2
32	5	305	PTY	C32-C33-C34-C35
23	A	808	LMT	C4-C5-C6-C7
24	8	305	LHG	C32-C33-C34-C35
24	4	303	LHG	O6-C4-C5-C6
32	5	305	PTY	O14-C5-C6-C1
24	A	812	LHG	O9-C7-O7-C5
27	A	828	CHL	C11-C10-C8-C7
27	B	814	CHL	C11-C12-C13-C15
27	B	849	CHL	C12-C13-C15-C16
27	5	316	CHL	C6-C7-C8-C10
27	6	308	CHL	C11-C12-C13-C15
27	7	313	CHL	C6-C7-C8-C10
27	7	317	CHL	C11-C10-C8-C7
27	7	319	CHL	C11-C10-C8-C7
27	8	312	CHL	C11-C10-C8-C7
27	8	316	CHL	C11-C12-C13-C15
23	A	809	LMT	C3-C4-C5-C6
27	B	819	CHL	O1A-CGA-O2A-C1
24	A	811	LHG	C7-C8-C9-C10
28	B	809	DGD	C3B-C4B-C5B-C6B
27	A	829	CHL	C4-C3-C5-C6
27	A	839	CHL	C4-C3-C5-C6
27	A	836	CHL	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
27	A	839	CHL	C2-C3-C5-C6
27	a	313	CHL	C2-C3-C5-C6
27	4	306	CHL	C2-C3-C5-C6
24	A	811	LHG	C9-C10-C11-C12
27	A	829	CHL	C5-C6-C7-C8
27	8	316	CHL	C5-C6-C7-C8
27	b	315	CHL	C2A-CAA-CBA-CGA
27	A	828	CHL	C11-C10-C8-C9
27	A	850	CHL	C6-C7-C8-C9
27	B	844	CHL	C11-C12-C13-C14
27	B	849	CHL	C14-C13-C15-C16
27	5	316	CHL	C6-C7-C8-C9
27	6	308	CHL	C11-C12-C13-C14
27	7	313	CHL	C6-C7-C8-C9
27	7	319	CHL	C11-C10-C8-C9
27	A	856	CHL	C8-C10-C11-C12
27	a	317	CHL	C8-C10-C11-C12
24	A	811	LHG	C4-C5-C6-O8
28	B	809	DGD	C1G-C2G-C3G-O3G
30	7	301	LMG	O1-C7-C8-C9
23	5	306	LMT	C3-C4-C5-C6
24	A	812	LHG	C17-C18-C19-C20
24	a	305	LHG	C27-C28-C29-C30
24	A	811	LHG	C24-C23-O8-C6
27	A	853	CHL	CBA-CGA-O2A-C1
27	4	320	CHL	CBA-CGA-O2A-C1
27	8	325	CHL	CBA-CGA-O2A-C1
34	8	301	SQD	C24-C23-O48-C46
27	B	827	CHL	C11-C12-C13-C15
22	B	806	BCR	C16-C17-C18-C36
22	K	202	BCR	C20-C21-C22-C37
26	A	815	CL0	CHA-CBD-CGD-O1D
26	A	815	CL0	CHA-CBD-CGD-O2D
27	A	823	CHL	CHA-CBD-CGD-O1D
27	A	826	CHL	CHA-CBD-CGD-O2D
27	A	830	CHL	CHA-CBD-CGD-O2D
27	A	837	CHL	CHA-CBD-CGD-O2D
27	A	844	CHL	CHA-CBD-CGD-O2D
27	A	845	CHL	CHA-CBD-CGD-O1D
27	A	856	CHL	CHA-CBD-CGD-O2D
27	B	817	CHL	CHA-CBD-CGD-O1D
27	B	823	CHL	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
27	B	831	CHL	CHA-CBD-CGD-O2D
27	B	833	CHL	CHA-CBD-CGD-O1D
27	B	841	CHL	CHA-CBD-CGD-O1D
27	B	843	CHL	CHA-CBD-CGD-O2D
27	B	848	CHL	CHA-CBD-CGD-O1D
27	3	313	CHL	CHA-CBD-CGD-O1D
27	3	318	CHL	CHA-CBD-CGD-O2D
27	3	319	CHL	CHA-CBD-CGD-O2D
27	4	305	CHL	CHA-CBD-CGD-O2D
27	4	314	CHL	CHA-CBD-CGD-O1D
27	5	310	CHL	CHA-CBD-CGD-O2D
27	5	319	CHL	CHA-CBD-CGD-O2D
27	5	322	CHL	CHA-CBD-CGD-O2D
27	5	323	CHL	CHA-CBD-CGD-O2D
27	6	305	CHL	CHA-CBD-CGD-O1D
27	6	311	CHL	CHA-CBD-CGD-O2D
27	6	314	CHL	CHA-CBD-CGD-O2D
27	7	311	CHL	CHA-CBD-CGD-O1D
27	7	317	CHL	CHA-CBD-CGD-O2D
27	8	311	CHL	CHA-CBD-CGD-O1D
27	8	325	CHL	CHA-CBD-CGD-O2D
27	b	304	CHL	CHA-CBD-CGD-O1D
27	b	306	CHL	CHA-CBD-CGD-O1D
24	B	808	LHG	O10-C23-O8-C6
27	B	824	CHL	O1A-CGA-O2A-C1
27	5	316	CHL	O1A-CGA-O2A-C1
27	4	306	CHL	C4-C3-C5-C6
27	A	820	CHL	C2-C3-C5-C6
27	B	825	CHL	C2-C3-C5-C6
27	7	313	CHL	C5-C6-C7-C8
24	b	302	LHG	O9-C7-O7-C5
24	a	305	LHG	C29-C30-C31-C32
29	J	103	LUT	C7-C8-C9-C10
29	J	103	LUT	C31-C32-C33-C34
27	A	850	CHL	O1A-CGA-O2A-C1
27	A	853	CHL	C13-C15-C16-C17
27	b	308	CHL	CBA-CGA-O2A-C1
24	5	304	LHG	C9-C10-C11-C12
27	B	840	CHL	C10-C11-C12-C13
24	b	302	LHG	C9-C10-C11-C12
24	8	305	LHG	O1-C1-C2-C3
24	a	305	LHG	C34-C35-C36-C37

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Mol	Chain	Res	Type	Atoms
24	A	812	LHG	C33-C34-C35-C36
24	4	303	LHG	C28-C29-C30-C31
27	a	315	CHL	C3C-C2C-CMC-OMC
29	a	304	LUT	C13-C14-C15-C35
30	a	301	LMG	C35-C36-C37-C38
22	A	807	BCR	C20-C21-C22-C23
22	J	102	BCR	C20-C21-C22-C23
27	A	821	CHL	CBA-CGA-O2A-C1
27	3	314	CHL	CBA-CGA-O2A-C1
27	5	323	CHL	CBA-CGA-O2A-C1
28	7	307	DGD	CFB-CGB-CHB-CIB
30	a	301	LMG	C18-C19-C20-C21
27	A	836	CHL	C4-C3-C5-C6
27	B	825	CHL	C4-C3-C5-C6
27	A	829	CHL	C2-C3-C5-C6
27	b	315	CHL	C2-C3-C5-C6
24	a	305	LHG	C18-C19-C20-C21
30	J	101	LMG	C24-C25-C26-C27
30	J	101	LMG	O7-C8-C9-O8
24	7	302	LHG	C33-C34-C35-C36
24	8	305	LHG	C11-C12-C13-C14
30	J	101	LMG	C23-C24-C25-C26
30	7	301	LMG	C30-C31-C32-C33
27	A	853	CHL	O1A-CGA-O2A-C1
27	A	825	CHL	CBA-CGA-O2A-C1
27	a	312	CHL	CBA-CGA-O2A-C1
30	J	104	LMG	C29-C28-O8-C9
27	a	315	CHL	C1C-C2C-CMC-OMC
27	6	317	CHL	C1C-C2C-CMC-OMC
30	J	101	LMG	C36-C37-C38-C39
28	B	809	DGD	C4A-C5A-C6A-C7A
27	B	827	CHL	C10-C11-C12-C13
34	8	301	SQD	C23-C24-C25-C26
23	5	326	LMT	O1'-C1-C2-C3
27	B	848	CHL	C5-C6-C7-C8
27	A	824	CHL	C4-C3-C5-C6
27	A	855	CHL	C4-C3-C5-C6
27	B	829	CHL	C4-C3-C5-C6
27	a	315	CHL	C4-C3-C5-C6
27	3	314	CHL	C4-C3-C5-C6
27	4	308	CHL	C4-C3-C5-C6
27	5	316	CHL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
27	5	318	CHL	C4-C3-C5-C6
27	6	310	CHL	C4-C3-C5-C6
34	8	301	SQD	C25-C26-C27-C28
27	B	840	CHL	C2-C3-C5-C6
27	A	843	CHL	CBA-CGA-O2A-C1
27	L	303	CHL	CBA-CGA-O2A-C1
24	7	302	LHG	C9-C10-C11-C12
27	B	814	CHL	C11-C12-C13-C14
27	B	844	CHL	C14-C13-C15-C16
27	6	311	CHL	C11-C12-C13-C14
27	7	314	CHL	C11-C10-C8-C9
27	7	317	CHL	C11-C10-C8-C9
27	8	312	CHL	C11-C10-C8-C9
27	8	316	CHL	C11-C12-C13-C14
27	A	855	CHL	C8-C10-C11-C12
24	A	811	LHG	C24-C25-C26-C27
28	B	809	DGD	C9B-CAB-CBB-CCB
27	A	835	CHL	C2A-CAA-CBA-CGA
30	7	301	LMG	C2-C1-O1-C7
27	7	316	CHL	C5-C6-C7-C8
24	7	302	LHG	O6-C4-C5-C6
24	A	810	LHG	C10-C11-C12-C13
27	5	313	CHL	O1D-CGD-O2D-CED
27	A	827	CHL	C6-C7-C8-C9
30	8	307	LMG	C32-C33-C34-C35
27	A	832	CHL	C6-C7-C8-C10
27	A	850	CHL	C6-C7-C8-C10
27	B	844	CHL	C11-C12-C13-C15
27	B	844	CHL	C12-C13-C15-C16
27	6	308	CHL	C12-C13-C15-C16
27	6	311	CHL	C11-C12-C13-C15
27	7	314	CHL	C11-C10-C8-C7
27	B	813	CHL	C5-C6-C7-C8
27	6	307	CHL	C13-C15-C16-C17
23	A	809	LMT	C4B-C5B-C6B-O6B
24	4	303	LHG	C35-C36-C37-C38
27	A	849	CHL	C4-C3-C5-C6
27	B	813	CHL	C4-C3-C5-C6
27	B	814	CHL	C3A-C2A-CAA-CBA
27	B	814	CHL	C4-C3-C5-C6
27	B	821	CHL	C4-C3-C5-C6
27	5	323	CHL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
27	8	317	CHL	C3A-C2A-CAA-CBA
27	A	855	CHL	C2-C3-C5-C6
27	B	829	CHL	C2-C3-C5-C6
27	a	315	CHL	C2-C3-C5-C6
27	4	308	CHL	C2-C3-C5-C6
27	4	320	CHL	O1A-CGA-O2A-C1
27	8	325	CHL	O1A-CGA-O2A-C1
34	8	301	SQD	O10-C23-O48-C46
27	A	833	CHL	C2C-C3C-CAC-CBC
29	a	302	LUT	C33-C34-C35-C15
23	A	808	LMT	O5B-C1B-O1B-C4'
27	B	842	CHL	C3-C5-C6-C7
22	3	303	BCR	C7-C8-C9-C34
27	A	852	CHL	C4-C3-C5-C6
33	7	305	XAT	C11-C12-C13-C14
24	5	324	LHG	C24-C25-C26-C27
24	4	303	LHG	C7-C8-C9-C10
27	a	315	CHL	CBA-CGA-O2A-C1
24	5	324	LHG	C4-C5-C6-O8
24	7	302	LHG	C4-C5-C6-O8
30	J	101	LMG	C7-C8-C9-O8
30	7	301	LMG	C7-C8-C9-O8
32	5	305	PTY	O4-C1-C6-C5
27	A	825	CHL	C3-C5-C6-C7
27	A	843	CHL	C3-C5-C6-C7
30	7	301	LMG	C12-C13-C14-C15
27	A	821	CHL	C1A-C2A-CAA-CBA
27	3	310	CHL	C1A-C2A-CAA-CBA
27	3	315	CHL	C1A-C2A-CAA-CBA
27	4	304	CHL	C1A-C2A-CAA-CBA
27	6	308	CHL	C1A-C2A-CAA-CBA
27	6	316	CHL	C1A-C2A-CAA-CBA
27	7	324	CHL	C1A-C2A-CAA-CBA
27	8	319	CHL	C1A-C2A-CAA-CBA
24	A	810	LHG	C11-C10-C9-C8
27	A	840	CHL	C4-C3-C5-C6
27	B	816	CHL	C4-C3-C5-C6
27	B	833	CHL	C4-C3-C5-C6
27	B	838	CHL	C4-C3-C5-C6
27	B	840	CHL	C4-C3-C5-C6
27	7	322	CHL	C4-C3-C5-C6
27	L	303	CHL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
27	A	824	CHL	C2-C3-C5-C6
27	B	821	CHL	C2-C3-C5-C6
27	5	318	CHL	C2-C3-C5-C6
27	6	310	CHL	C2-C3-C5-C6
24	5	324	LHG	O6-C4-C5-O7
32	5	305	PTY	O14-C5-C6-O7
23	A	808	LMT	C7-C8-C9-C10
22	A	806	BCR	C1-C6-C7-C8
22	A	806	BCR	C23-C24-C25-C30
22	B	802	BCR	C1-C6-C7-C8
22	B	802	BCR	C23-C24-C25-C30
22	B	803	BCR	C1-C6-C7-C8
22	B	804	BCR	C1-C6-C7-C8
22	B	807	BCR	C1-C6-C7-C8
22	I	801	BCR	C1-C6-C7-C8
22	J	102	BCR	C23-C24-C25-C30
22	K	203	BCR	C23-C24-C25-C30
22	M	102	BCR	C1-C6-C7-C8
22	M	102	BCR	C23-C24-C25-C30
22	3	301	BCR	C23-C24-C25-C30
22	3	302	BCR	C1-C6-C7-C8
22	3	303	BCR	C23-C24-C25-C30
22	5	301	BCR	C23-C24-C25-C30
22	6	301	BCR	C23-C24-C25-C30
22	L	301	BCR	C1-C6-C7-C8
22	L	301	BCR	C23-C24-C25-C26
22	L	302	BCR	C1-C6-C7-C8
29	b	303	LUT	C1-C6-C7-C8
30	J	101	LMG	C15-C16-C17-C18
27	B	817	CHL	C8-C10-C11-C12
27	6	307	CHL	C5-C6-C7-C8
27	6	307	CHL	C8-C10-C11-C12
27	8	318	CHL	O1A-CGA-O2A-C1
28	7	307	DGD	CBA-CCA-CDA-CEA
24	A	810	LHG	O7-C5-C6-O8
24	A	812	LHG	O7-C5-C6-O8
30	7	301	LMG	O1-C7-C8-O7
27	A	821	CHL	O1A-CGA-O2A-C1
27	5	323	CHL	O1A-CGA-O2A-C1
23	5	326	LMT	C3-C4-C5-C6
24	A	812	LHG	C11-C10-C9-C8
24	7	302	LHG	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
27	A	849	CHL	C2-C3-C5-C6
27	B	816	CHL	C2-C3-C5-C6
27	B	833	CHL	C2-C3-C5-C6
27	B	838	CHL	C2-C3-C5-C6
27	3	314	CHL	C2-C3-C5-C6
27	5	316	CHL	C2-C3-C5-C6
27	7	322	CHL	C2-C3-C5-C6
27	L	303	CHL	C2-C3-C5-C6
30	J	101	LMG	C28-C29-C30-C31
27	A	832	CHL	C6-C7-C8-C9
28	B	809	DGD	O6E-C1E-O5D-C6D
27	3	314	CHL	O1A-CGA-O2A-C1
24	A	810	LHG	C12-C13-C14-C15
34	8	301	SQD	C9-C10-C11-C12
24	a	305	LHG	O1-C1-C2-O2
27	3	318	CHL	CBA-CGA-O2A-C1
27	A	834	CHL	C4-C3-C5-C6
29	4	301	LUT	C33-C34-C35-C15
29	b	303	LUT	C13-C14-C15-C35
27	A	834	CHL	C2-C3-C5-C6
27	A	840	CHL	C2-C3-C5-C6
27	B	813	CHL	C2-C3-C5-C6
27	B	814	CHL	C2-C3-C5-C6
27	5	309	CHL	C5-C6-C7-C8
27	7	317	CHL	C13-C15-C16-C17
27	A	825	CHL	O1A-CGA-O2A-C1
27	A	828	CHL	C13-C15-C16-C17
22	A	803	BCR	C20-C21-C22-C37
22	B	805	BCR	C20-C21-C22-C37
22	J	102	BCR	C20-C21-C22-C37
22	3	302	BCR	C35-C13-C14-C15
22	3	303	BCR	C16-C17-C18-C36
29	b	303	LUT	C11-C10-C9-C19
27	A	819	CHL	CBA-CGA-O2A-C1
27	B	836	CHL	CBA-CGA-O2A-C1
27	B	838	CHL	CBA-CGA-O2A-C1
26	A	815	CL0	C15-C16-C17-C18
27	B	827	CHL	C11-C12-C13-C14
27	L	303	CHL	C11-C12-C13-C15
24	4	303	LHG	C16-C17-C18-C19
27	A	844	CHL	C13-C15-C16-C17
27	B	818	CHL	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
27	A	839	CHL	C11-C10-C8-C7
27	B	812	CHL	C12-C13-C15-C16
27	B	840	CHL	C11-C12-C13-C15
27	7	319	CHL	C6-C7-C8-C10
30	a	301	LMG	C15-C16-C17-C18
27	3	317	CHL	C8-C10-C11-C12
22	A	806	BCR	C7-C8-C9-C10
22	A	806	BCR	C21-C22-C23-C24
22	B	803	BCR	C21-C22-C23-C24
22	B	805	BCR	C7-C8-C9-C10
22	3	303	BCR	C7-C8-C9-C10
29	F	303	LUT	C7-C8-C9-C10
24	5	304	LHG	C24-C23-O8-C6
24	b	302	LHG	C11-C10-C9-C8
30	J	101	LMG	C17-C18-C19-C20
27	a	312	CHL	O1A-CGA-O2A-C1
27	8	315	CHL	C10-C11-C12-C13
27	A	833	CHL	C2A-CAA-CBA-CGA
27	4	313	CHL	CBD-CGD-O2D-CED
27	A	841	CHL	C4-C3-C5-C6
27	B	835	CHL	C4-C3-C5-C6
27	B	848	CHL	C4-C3-C5-C6
27	3	311	CHL	C4-C3-C5-C6
27	7	317	CHL	C4-C3-C5-C6
27	L	303	CHL	O1A-CGA-O2A-C1
30	J	101	LMG	C34-C35-C36-C37
27	8	315	CHL	C8-C10-C11-C12
27	7	322	CHL	C2C-C3C-CAC-CBC
32	5	305	PTY	C1-C6-O7-C8
27	a	315	CHL	O1A-CGA-O2A-C1
30	7	301	LMG	C16-C17-C18-C19
28	7	307	DGD	C2B-C3B-C4B-C5B
27	3	318	CHL	O1A-CGA-O2A-C1
27	5	309	CHL	C3-C5-C6-C7
27	A	841	CHL	CBA-CGA-O2A-C1
22	F	301	BCR	C12-C13-C14-C15
29	a	302	LUT	C12-C13-C14-C15
29	4	301	LUT	C11-C10-C9-C8
29	4	302	LUT	C12-C13-C14-C15
29	5	302	LUT	C12-C13-C14-C15
29	5	303	LUT	C28-C29-C30-C31
29	b	303	LUT	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
24	A	812	LHG	O6-C4-C5-O7
24	4	303	LHG	O6-C4-C5-O7
24	5	304	LHG	O6-C4-C5-O7
24	7	302	LHG	O6-C4-C5-O7
28	B	809	DGD	CAB-CBB-CCB-CDB
24	5	304	LHG	C4-C5-C6-O8
27	7	313	CHL	C4-C3-C5-C6
27	A	824	CHL	C3-C5-C6-C7
24	A	811	LHG	O7-C5-C6-O8
24	7	302	LHG	O7-C5-C6-O8
32	5	305	PTY	O4-C1-C6-O7
27	B	840	CHL	C11-C12-C13-C14
24	4	303	LHG	C23-C24-C25-C26
27	A	822	CHL	CBA-CGA-O2A-C1
24	5	304	LHG	O10-C23-O8-C6
27	A	822	CHL	O1A-CGA-O2A-C1
27	A	840	CHL	C10-C11-C12-C13
27	A	849	CHL	C5-C6-C7-C8
29	a	304	LUT	C26-C27-C28-C29
30	J	101	LMG	C14-C15-C16-C17
27	B	836	CHL	O1A-CGA-O2A-C1
27	B	838	CHL	O1A-CGA-O2A-C1
28	B	809	DGD	C2E-C1E-O5D-C6D
27	A	845	CHL	CBA-CGA-O2A-C1
27	B	847	CHL	C13-C15-C16-C17
27	A	819	CHL	C4-C3-C5-C6
27	A	837	CHL	C4-C3-C5-C6
27	A	850	CHL	C4-C3-C5-C6
27	B	819	CHL	C4-C3-C5-C6
27	A	841	CHL	C2-C3-C5-C6
27	B	848	CHL	C2-C3-C5-C6
27	7	317	CHL	C2-C3-C5-C6
24	b	302	LHG	C24-C23-O8-C6
27	3	317	CHL	CBA-CGA-O2A-C1
27	3	316	CHL	C16-C17-C18-C19
28	7	307	DGD	C9B-CAB-CBB-CCB
27	A	841	CHL	O1A-CGA-O2A-C1
27	A	845	CHL	O1A-CGA-O2A-C1
27	A	828	CHL	C4C-C3C-CAC-CBC
27	A	843	CHL	C4C-C3C-CAC-CBC
27	B	817	CHL	C4C-C3C-CAC-CBC
27	B	819	CHL	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
27	B	848	CHL	C4C-C3C-CAC-CBC
27	a	317	CHL	C4C-C3C-CAC-CBC
27	a	319	CHL	C4C-C3C-CAC-CBC
27	4	310	CHL	C4C-C3C-CAC-CBC
27	5	318	CHL	C4C-C3C-CAC-CBC
27	5	322	CHL	C4C-C3C-CAC-CBC
27	7	324	CHL	C4C-C3C-CAC-CBC
27	8	312	CHL	C4C-C3C-CAC-CBC
27	8	323	CHL	C4C-C3C-CAC-CBC
27	8	324	CHL	C4C-C3C-CAC-CBC
27	L	304	CHL	C4C-C3C-CAC-CBC
23	A	808	LMT	C2B-C1B-O1B-C4'
23	5	306	LMT	C2-C1-O1'-C1'
27	6	308	CHL	C8-C10-C11-C12
28	B	809	DGD	C6B-C7B-C8B-C9B
34	8	301	SQD	C10-C11-C12-C13
27	A	819	CHL	O1A-CGA-O2A-C1
27	8	320	CHL	C4-C3-C5-C6
22	A	803	BCR	C21-C22-C23-C24
22	J	102	BCR	C7-C8-C9-C10
24	a	305	LHG	C35-C36-C37-C38
27	7	319	CHL	C2A-CAA-CBA-CGA
27	5	313	CHL	C8-C10-C11-C12
24	5	304	LHG	O6-C4-C5-C6
34	8	301	SQD	C5-C6-S-O7
27	B	820	CHL	C15-C16-C17-C18
27	A	836	CHL	C6-C7-C8-C10
27	B	815	CHL	C12-C13-C15-C16
27	B	817	CHL	C6-C7-C8-C10
27	B	825	CHL	C6-C7-C8-C10
27	5	316	CHL	C11-C12-C13-C15
27	8	315	CHL	C6-C7-C8-C10
26	A	815	CL0	C16-C17-C18-C19
27	6	308	CHL	C16-C17-C18-C19
24	8	305	LHG	O2-C2-C3-O3
24	7	306	LHG	C24-C23-O8-C6
27	3	317	CHL	O1A-CGA-O2A-C1
24	7	302	LHG	C2-C3-O3-P
27	a	317	CHL	C4-C3-C5-C6
27	B	835	CHL	C2-C3-C5-C6
23	7	308	LMT	C4'-C5'-C6'-O6'
27	8	317	CHL	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
27	B	812	CHL	C2A-CAA-CBA-CGA
27	A	839	CHL	C11-C10-C8-C9
27	B	812	CHL	C14-C13-C15-C16
24	7	306	LHG	C10-C11-C12-C13
22	B	803	BCR	C19-C20-C21-C22
22	5	301	BCR	C19-C20-C21-C22
29	F	303	LUT	C9-C10-C11-C12
29	J	103	LUT	C13-C14-C15-C35
29	6	302	LUT	C33-C34-C35-C15
27	6	306	CHL	C5-C6-C7-C8
28	7	307	DGD	CEB-CFB-CGB-CHB
24	5	304	LHG	O7-C5-C6-O8
34	8	301	SQD	O6-C44-C45-O47
30	J	101	LMG	O1-C7-C8-C9
27	B	823	CHL	C4-C3-C5-C6
27	7	318	CHL	C4-C3-C5-C6
34	8	301	SQD	C11-C10-C9-C8
27	A	846	CHL	CAD-CBD-CGD-O2D
27	B	838	CHL	CAD-CBD-CGD-O2D
27	5	311	CHL	CAD-CBD-CGD-O2D
27	5	316	CHL	CAD-CBD-CGD-O2D
27	7	321	CHL	CAD-CBD-CGD-O2D
27	7	318	CHL	O1A-CGA-O2A-C1
27	7	318	CHL	CBA-CGA-O2A-C1
27	A	843	CHL	C10-C11-C12-C13
27	A	831	CHL	C6-C7-C8-C10
27	3	310	CHL	C2A-CAA-CBA-CGA
27	8	312	CHL	C2A-CAA-CBA-CGA
27	B	822	CHL	C8-C10-C11-C12
27	7	317	CHL	C5-C6-C7-C8
23	7	308	LMT	O5'-C5'-C6'-O6'
22	B	806	BCR	C19-C20-C21-C22
24	A	810	LHG	C3-O3-P-O5
24	A	811	LHG	C4-O6-P-O3
24	A	812	LHG	C3-O3-P-O5
24	a	305	LHG	C3-O3-P-O5
24	7	302	LHG	C3-O3-P-O5
24	7	306	LHG	C3-O3-P-O6
24	b	302	LHG	C4-O6-P-O4
27	A	818	CHL	CHA-CBD-CGD-O1D
27	A	819	CHL	CHA-CBD-CGD-O1D
27	A	820	CHL	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
27	A	822	CHL	CHA-CBD-CGD-O2D
27	A	824	CHL	CHA-CBD-CGD-O2D
27	A	825	CHL	CHA-CBD-CGD-O1D
27	A	827	CHL	CHA-CBD-CGD-O2D
27	A	832	CHL	CHA-CBD-CGD-O1D
27	A	838	CHL	CHA-CBD-CGD-O2D
27	A	843	CHL	CHA-CBD-CGD-O1D
27	A	843	CHL	CHA-CBD-CGD-O2D
27	A	846	CHL	CAD-CBD-CGD-O1D
27	A	847	CHL	CHA-CBD-CGD-O1D
27	A	848	CHL	CHA-CBD-CGD-O2D
27	A	849	CHL	CHA-CBD-CGD-O1D
27	A	849	CHL	CHA-CBD-CGD-O2D
27	A	857	CHL	CAD-CBD-CGD-O1D
27	B	812	CHL	CHA-CBD-CGD-O1D
27	B	813	CHL	CHA-CBD-CGD-O1D
27	B	815	CHL	CHA-CBD-CGD-O2D
27	B	818	CHL	CHA-CBD-CGD-O1D
27	B	819	CHL	CAD-CBD-CGD-O1D
27	B	824	CHL	CHA-CBD-CGD-O1D
27	B	825	CHL	CHA-CBD-CGD-O1D
27	B	827	CHL	CHA-CBD-CGD-O1D
27	B	828	CHL	CHA-CBD-CGD-O1D
27	B	830	CHL	CHA-CBD-CGD-O2D
27	B	832	CHL	CHA-CBD-CGD-O1D
27	B	836	CHL	CHA-CBD-CGD-O2D
27	B	839	CHL	CHA-CBD-CGD-O1D
27	B	842	CHL	CHA-CBD-CGD-O2D
27	B	844	CHL	CHA-CBD-CGD-O2D
27	B	845	CHL	CHA-CBD-CGD-O2D
27	B	846	CHL	CHA-CBD-CGD-O1D
27	B	849	CHL	CAD-CBD-CGD-O1D
27	B	850	CHL	CHA-CBD-CGD-O2D
27	B	851	CHL	CHA-CBD-CGD-O2D
27	a	310	CHL	CHA-CBD-CGD-O1D
27	a	311	CHL	CHA-CBD-CGD-O2D
27	a	318	CHL	CHA-CBD-CGD-O1D
27	a	319	CHL	CHA-CBD-CGD-O1D
27	3	310	CHL	CHA-CBD-CGD-O2D
27	3	316	CHL	CAD-CBD-CGD-O1D
27	3	317	CHL	CHA-CBD-CGD-O2D
27	3	320	CHL	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
27	4	308	CHL	CHA-CBD-CGD-O2D
27	4	311	CHL	CHA-CBD-CGD-O2D
27	5	312	CHL	CHA-CBD-CGD-O1D
27	5	314	CHL	CHA-CBD-CGD-O2D
27	5	316	CHL	CAD-CBD-CGD-O1D
27	5	320	CHL	CHA-CBD-CGD-O1D
27	6	305	CHL	CHA-CBD-CGD-O2D
27	6	312	CHL	CAD-CBD-CGD-O1D
27	7	313	CHL	CHA-CBD-CGD-O2D
27	7	314	CHL	CHA-CBD-CGD-O1D
27	7	316	CHL	CHA-CBD-CGD-O1D
27	7	320	CHL	CHA-CBD-CGD-O2D
27	7	321	CHL	CHA-CBD-CGD-O1D
27	7	322	CHL	CHA-CBD-CGD-O1D
27	7	324	CHL	CHA-CBD-CGD-O1D
27	8	313	CHL	CHA-CBD-CGD-O2D
27	8	316	CHL	CHA-CBD-CGD-O1D
27	8	317	CHL	CHA-CBD-CGD-O1D
27	8	322	CHL	CHA-CBD-CGD-O2D
27	8	324	CHL	CHA-CBD-CGD-O1D
27	b	312	CHL	CHA-CBD-CGD-O1D
27	b	312	CHL	CHA-CBD-CGD-O2D
27	b	313	CHL	CHA-CBD-CGD-O2D
29	a	302	LUT	C25-C26-C27-C28
29	3	304	LUT	C13-C14-C15-C35
32	5	305	PTY	C3-O11-P1-O13
27	8	325	CHL	C3-C5-C6-C7
24	4	303	LHG	C24-C25-C26-C27
27	A	823	CHL	C13-C15-C16-C17
22	B	806	BCR	C23-C24-C25-C30
22	K	202	BCR	C1-C6-C7-C8
22	8	302	BCR	C23-C24-C25-C30
27	A	819	CHL	C2-C3-C5-C6
27	B	819	CHL	C2-C3-C5-C6
27	3	311	CHL	C2-C3-C5-C6
27	7	313	CHL	C2-C3-C5-C6
24	7	302	LHG	C5-C4-O6-P
29	3	304	LUT	C7-C8-C9-C19
23	5	326	LMT	C5-C6-C7-C8
23	B	810	LMT	C7-C8-C9-C10
24	5	324	LHG	O1-C1-C2-O2
27	A	825	CHL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
27	A	842	CHL	C4-C3-C5-C6
29	F	303	LUT	C10-C11-C12-C13
29	a	304	LUT	C30-C31-C32-C33
29	5	303	LUT	C10-C11-C12-C13
29	6	302	LUT	C30-C31-C32-C33
29	6	303	LUT	C10-C11-C12-C13
27	5	309	CHL	C8-C10-C11-C12
22	L	301	BCR	C13-C14-C15-C16
29	8	304	LUT	C9-C10-C11-C12
24	5	324	LHG	O6-C4-C5-C6
27	A	836	CHL	C6-C7-C8-C9
27	A	843	CHL	C11-C10-C8-C9
27	5	309	CHL	C6-C7-C8-C9
27	5	316	CHL	C11-C12-C13-C14
27	6	307	CHL	C11-C12-C13-C14
27	7	322	CHL	C11-C10-C8-C9
27	A	840	CHL	C12-C13-C15-C16
27	5	316	CHL	C11-C10-C8-C7
27	6	307	CHL	C12-C13-C15-C16
27	8	321	CHL	C12-C13-C15-C16
23	7	308	LMT	C5-C6-C7-C8
34	8	301	SQD	C24-C25-C26-C27
27	8	312	CHL	C16-C17-C18-C20
28	7	307	DGD	C6B-C7B-C8B-C9B
30	a	301	LMG	O7-C8-C9-O8
30	8	307	LMG	O1-C7-C8-O7
27	4	319	CHL	C2C-C3C-CAC-CBC
27	8	312	CHL	C16-C17-C18-C19
24	a	305	LHG	C31-C32-C33-C34
24	4	303	LHG	O7-C7-C8-C9
27	A	833	CHL	CAA-CBA-CGA-O2A
28	7	307	DGD	O1G-C1A-C2A-C3A
24	8	305	LHG	C9-C10-C11-C12
34	8	301	SQD	O6-C44-C45-C46
27	7	321	CHL	C1C-C2C-CMC-OMC
27	8	321	CHL	O1A-CGA-O2A-C1
27	B	840	CHL	CAA-CBA-CGA-O2A
27	B	816	CHL	C2A-CAA-CBA-CGA
27	3	320	CHL	C2A-CAA-CBA-CGA
27	4	307	CHL	C2A-CAA-CBA-CGA
22	6	301	BCR	C13-C14-C15-C16
22	7	303	BCR	C19-C20-C21-C22

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Mol	Chain	Res	Type	Atoms
29	5	303	LUT	C9-C10-C11-C12
29	6	302	LUT	C13-C14-C15-C35
33	7	305	XAT	C9-C10-C11-C12
27	A	858	CHL	C16-C17-C18-C20
23	5	306	LMT	O5'-C1'-O1'-C1
27	A	837	CHL	C2-C3-C5-C6
27	B	847	CHL	C5-C6-C7-C8
27	B	837	CHL	C10-C11-C12-C13
24	7	302	LHG	C7-C8-C9-C10
27	b	308	CHL	O1A-CGA-O2A-C1
27	A	840	CHL	C14-C13-C15-C16
27	B	815	CHL	C14-C13-C15-C16
27	B	825	CHL	C6-C7-C8-C9
27	8	315	CHL	C6-C7-C8-C9
27	6	310	CHL	CBA-CGA-O2A-C1
27	8	321	CHL	CBA-CGA-O2A-C1
27	b	307	CHL	CBA-CGA-O2A-C1
24	b	302	LHG	C11-C12-C13-C14
20	B	801	PQN	C23-C25-C26-C27
27	B	820	CHL	C5-C6-C7-C8
27	a	311	CHL	C5-C6-C7-C8
27	A	844	CHL	C4-C3-C5-C6
27	B	847	CHL	C4-C3-C5-C6
27	A	825	CHL	C2-C3-C5-C6
27	A	842	CHL	C2-C3-C5-C6
27	8	320	CHL	C2-C3-C5-C6
27	B	840	CHL	C3-C5-C6-C7
27	B	835	CHL	C6-C7-C8-C10
27	a	310	CHL	C11-C10-C8-C7
27	8	314	CHL	C11-C12-C13-C15
26	A	815	CL0	C13-C15-C16-C17
27	6	310	CHL	O1A-CGA-O2A-C1
24	5	324	LHG	C27-C28-C29-C30
28	B	809	DGD	C8A-C9A-CAA-CBA
27	A	858	CHL	C3A-C2A-CAA-CBA
27	B	822	CHL	C3A-C2A-CAA-CBA
28	B	809	DGD	C5B-C6B-C7B-C8B
22	A	807	BCR	C16-C17-C18-C36
22	B	804	BCR	C11-C10-C9-C34
22	B	804	BCR	C20-C21-C22-C37
22	L	302	BCR	C11-C10-C9-C34
22	L	302	BCR	C16-C17-C18-C36

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Mol	Chain	Res	Type	Atoms
30	a	301	LMG	O6-C1-O1-C7
27	b	315	CHL	C2C-C3C-CAC-CBC
30	a	301	LMG	C37-C38-C39-C40
22	6	301	BCR	C9-C10-C11-C12
29	F	303	LUT	C33-C34-C35-C15
29	4	302	LUT	C33-C34-C35-C15
22	8	302	BCR	C7-C8-C9-C34
29	7	304	LUT	C11-C12-C13-C20
28	7	307	DGD	CDB-CEB-CFB-CGB
27	3	310	CHL	C5-C6-C7-C8
27	3	319	CHL	C5-C6-C7-C8
23	A	809	LMT	C1-C2-C3-C4
27	4	314	CHL	CAA-CBA-CGA-O1A
22	B	807	BCR	C21-C22-C23-C24
27	A	845	CHL	C4-C3-C5-C6
27	B	817	CHL	C4-C3-C5-C6
27	a	309	CHL	C4-C3-C5-C6
27	3	313	CHL	C4-C3-C5-C6
27	B	823	CHL	C2-C3-C5-C6
27	a	317	CHL	C2-C3-C5-C6
27	7	318	CHL	C2-C3-C5-C6
24	7	306	LHG	C1-C2-C3-O3
24	8	305	LHG	C1-C2-C3-O3
27	3	319	CHL	C2A-CAA-CBA-CGA
27	7	315	CHL	CAA-CBA-CGA-O2A
27	B	837	CHL	O1A-CGA-O2A-C1
24	7	306	LHG	C4-C5-C6-O8
28	7	307	DGD	O1A-C1A-C2A-C3A
24	5	304	LHG	C24-C25-C26-C27
27	A	826	CHL	C11-C10-C8-C9
27	B	814	CHL	C14-C13-C15-C16
27	B	815	CHL	C6-C7-C8-C9
27	a	310	CHL	C11-C10-C8-C9
27	5	309	CHL	C11-C10-C8-C9
27	5	316	CHL	C14-C13-C15-C16
27	8	314	CHL	C11-C12-C13-C14
27	8	315	CHL	C11-C10-C8-C9
27	a	314	CHL	CAA-CBA-CGA-O2A
27	A	819	CHL	C1A-C2A-CAA-CBA
27	A	823	CHL	C1A-C2A-CAA-CBA
27	A	830	CHL	C1A-C2A-CAA-CBA
27	A	834	CHL	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
27	A	836	CHL	C1A-C2A-CAA-CBA
27	A	839	CHL	C1A-C2A-CAA-CBA
27	A	845	CHL	C1A-C2A-CAA-CBA
27	A	850	CHL	C1A-C2A-CAA-CBA
27	A	858	CHL	C1A-C2A-CAA-CBA
27	B	821	CHL	C1A-C2A-CAA-CBA
27	B	822	CHL	C1A-C2A-CAA-CBA
27	B	827	CHL	C1A-C2A-CAA-CBA
27	B	829	CHL	C1A-C2A-CAA-CBA
27	B	836	CHL	C1A-C2A-CAA-CBA
27	F	308	CHL	C1A-C2A-CAA-CBA
27	a	307	CHL	C1A-C2A-CAA-CBA
27	a	310	CHL	C1A-C2A-CAA-CBA
27	a	313	CHL	C1A-C2A-CAA-CBA
27	a	314	CHL	C1A-C2A-CAA-CBA
27	3	308	CHL	C1A-C2A-CAA-CBA
27	3	321	CHL	C1A-C2A-CAA-CBA
27	4	307	CHL	C1A-C2A-CAA-CBA
27	4	310	CHL	C1A-C2A-CAA-CBA
27	4	320	CHL	C1A-C2A-CAA-CBA
27	5	307	CHL	C1A-C2A-CAA-CBA
27	5	310	CHL	C1A-C2A-CAA-CBA
27	6	311	CHL	C1A-C2A-CAA-CBA
27	6	313	CHL	C1A-C2A-CAA-CBA
27	7	311	CHL	C1A-C2A-CAA-CBA
27	7	314	CHL	C1A-C2A-CAA-CBA
27	7	317	CHL	C1A-C2A-CAA-CBA
27	8	312	CHL	C1A-C2A-CAA-CBA
27	8	315	CHL	C1A-C2A-CAA-CBA
27	8	318	CHL	C1A-C2A-CAA-CBA
27	4	313	CHL	O1D-CGD-O2D-CED
27	a	314	CHL	CAA-CBA-CGA-O1A
27	B	846	CHL	C4-C3-C5-C6
27	3	310	CHL	C4-C3-C5-C6
24	B	808	LHG	C7-C8-C9-C10
27	A	844	CHL	C2-C3-C5-C6
27	a	309	CHL	C2-C3-C5-C6
27	A	855	CHL	C3-C5-C6-C7
27	7	315	CHL	CAA-CBA-CGA-O1A
27	4	306	CHL	C2A-CAA-CBA-CGA
27	7	314	CHL	C2A-CAA-CBA-CGA
22	A	807	BCR	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
22	3	302	BCR	C20-C21-C22-C23
22	3	303	BCR	C11-C10-C9-C8
27	4	314	CHL	CAA-CBA-CGA-O2A
22	A	803	BCR	C1-C6-C7-C8
22	A	804	BCR	C1-C6-C7-C8
22	A	804	BCR	C23-C24-C25-C30
22	A	805	BCR	C5-C6-C7-C8
22	A	806	BCR	C5-C6-C7-C8
22	A	806	BCR	C23-C24-C25-C26
22	B	802	BCR	C5-C6-C7-C8
22	B	802	BCR	C23-C24-C25-C26
22	B	803	BCR	C5-C6-C7-C8
22	B	803	BCR	C23-C24-C25-C30
22	B	804	BCR	C5-C6-C7-C8
22	B	805	BCR	C1-C6-C7-C8
22	B	805	BCR	C23-C24-C25-C30
22	B	807	BCR	C5-C6-C7-C8
22	F	301	BCR	C1-C6-C7-C8
22	I	801	BCR	C5-C6-C7-C8
22	J	102	BCR	C23-C24-C25-C26
22	K	202	BCR	C5-C6-C7-C8
22	K	203	BCR	C1-C6-C7-C8
22	K	203	BCR	C23-C24-C25-C26
22	M	102	BCR	C5-C6-C7-C8
22	M	102	BCR	C23-C24-C25-C26
22	3	301	BCR	C1-C6-C7-C8
22	3	301	BCR	C23-C24-C25-C26
22	3	302	BCR	C5-C6-C7-C8
22	3	302	BCR	C23-C24-C25-C26
22	3	302	BCR	C23-C24-C25-C30
22	3	303	BCR	C23-C24-C25-C26
22	5	301	BCR	C23-C24-C25-C26
22	6	301	BCR	C23-C24-C25-C26
22	L	301	BCR	C5-C6-C7-C8
22	L	302	BCR	C5-C6-C7-C8
29	b	303	LUT	C5-C6-C7-C8
31	a	303	AXT	C25-C26-C27-C28
27	7	312	CHL	CAA-CBA-CGA-O1A
27	b	307	CHL	O1A-CGA-O2A-C1
24	a	305	LHG	C2-C3-O3-P
27	A	842	CHL	C3-C5-C6-C7
27	B	818	CHL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
27	B	827	CHL	C4-C3-C5-C6
27	B	839	CHL	C4-C3-C5-C6
27	7	316	CHL	C4-C3-C5-C6
27	B	849	CHL	CAA-CBA-CGA-O2A
27	B	844	CHL	CBA-CGA-O2A-C1
27	A	823	CHL	C12-C13-C15-C16
27	A	838	CHL	C6-C7-C8-C10
27	B	822	CHL	C2A-CAA-CBA-CGA
27	6	311	CHL	C2A-CAA-CBA-CGA
27	8	315	CHL	C2A-CAA-CBA-CGA
27	b	305	CHL	C2A-CAA-CBA-CGA
24	7	306	LHG	O7-C5-C6-O8
27	B	832	CHL	O1D-CGD-O2D-CED
27	A	827	CHL	CBA-CGA-O2A-C1
27	A	828	CHL	CBA-CGA-O2A-C1
24	5	304	LHG	C13-C14-C15-C16
24	A	811	LHG	C30-C31-C32-C33
27	7	312	CHL	CAA-CBA-CGA-O2A
27	B	832	CHL	C4-C3-C5-C6
27	6	311	CHL	C4-C3-C5-C6
27	8	317	CHL	C4-C3-C5-C6
27	3	317	CHL	CAA-CBA-CGA-O2A
27	B	851	CHL	C8-C10-C11-C12
27	B	817	CHL	C2-C3-C5-C6
27	B	846	CHL	C2-C3-C5-C6
27	B	847	CHL	C2-C3-C5-C6
27	3	313	CHL	C2-C3-C5-C6
28	7	307	DGD	CCA-CDA-CEA-CFA
27	8	325	CHL	C8-C10-C11-C12
29	a	302	LUT	C7-C8-C9-C10
27	7	313	CHL	CBA-CGA-O2A-C1
24	8	305	LHG	C29-C30-C31-C32
27	A	855	CHL	C11-C10-C8-C9
27	B	835	CHL	C6-C7-C8-C9
27	3	311	CHL	C2C-C3C-CAC-CBC
24	A	811	LHG	C11-C12-C13-C14
27	A	818	CHL	C4-C3-C5-C6
27	A	821	CHL	C4-C3-C5-C6
27	A	823	CHL	C4-C3-C5-C6
27	A	827	CHL	C4-C3-C5-C6
27	A	838	CHL	C4-C3-C5-C6
27	A	856	CHL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
27	B	815	CHL	C4-C3-C5-C6
27	B	830	CHL	C4-C3-C5-C6
27	B	844	CHL	C4-C3-C5-C6
27	8	314	CHL	C4-C3-C5-C6
27	A	824	CHL	C8-C10-C11-C12
27	5	314	CHL	CAA-CBA-CGA-O1A
27	A	845	CHL	C2-C3-C5-C6
27	A	850	CHL	C2-C3-C5-C6
27	3	310	CHL	C2-C3-C5-C6
27	B	844	CHL	O1A-CGA-O2A-C1
27	A	827	CHL	O1A-CGA-O2A-C1
24	B	808	LHG	C24-C25-C26-C27
24	7	302	LHG	C30-C31-C32-C33
30	J	104	LMG	O1-C7-C8-C9
30	8	307	LMG	O1-C7-C8-C9
27	3	311	CHL	O1A-CGA-O2A-C1
27	7	313	CHL	O1A-CGA-O2A-C1
27	a	310	CHL	C2A-CAA-CBA-CGA
27	5	310	CHL	C2A-CAA-CBA-CGA
27	A	833	CHL	C10-C11-C12-C13
27	A	859	CHL	C4-C3-C5-C6
27	6	307	CHL	C4-C3-C5-C6
28	7	307	DGD	C6A-C7A-C8A-C9A
27	4	313	CHL	CAA-CBA-CGA-O2A
27	4	317	CHL	CAA-CBA-CGA-O2A
27	5	318	CHL	C8-C10-C11-C12
28	B	809	DGD	C3A-C4A-C5A-C6A
27	6	316	CHL	CAA-CBA-CGA-O1A
27	B	837	CHL	CBA-CGA-O2A-C1
27	A	858	CHL	C16-C17-C18-C19
24	5	304	LHG	C1-C2-C3-O3
22	A	807	BCR	C11-C10-C9-C34
22	B	802	BCR	C20-C21-C22-C37
22	6	301	BCR	C20-C21-C22-C37
27	A	816	CHL	CHA-CBD-CGD-O1D
27	A	817	CHL	CHA-CBD-CGD-O1D
27	A	830	CHL	CHA-CBD-CGD-O1D
27	A	834	CHL	CHA-CBD-CGD-O1D
27	A	840	CHL	CHA-CBD-CGD-O2D
27	A	847	CHL	CHA-CBD-CGD-O2D
27	A	850	CHL	CHA-CBD-CGD-O2D
27	A	853	CHL	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
27	A	855	CHL	CHA-CBD-CGD-O1D
27	B	811	CHL	CHA-CBD-CGD-O2D
27	B	816	CHL	CHA-CBD-CGD-O1D
27	B	820	CHL	CHA-CBD-CGD-O2D
27	B	829	CHL	CHA-CBD-CGD-O1D
27	B	830	CHL	CHA-CBD-CGD-O1D
27	B	835	CHL	CHA-CBD-CGD-O2D
27	B	836	CHL	CHA-CBD-CGD-O1D
27	B	840	CHL	CHA-CBD-CGD-O2D
27	B	847	CHL	CHA-CBD-CGD-O2D
27	B	848	CHL	CHA-CBD-CGD-O2D
27	J	106	CHL	CHA-CBD-CGD-O1D
27	K	205	CHL	CHA-CBD-CGD-O1D
27	a	307	CHL	CHA-CBD-CGD-O2D
27	a	313	CHL	CHA-CBD-CGD-O1D
27	a	316	CHL	CHA-CBD-CGD-O2D
27	a	317	CHL	CHA-CBD-CGD-O1D
27	a	318	CHL	CHA-CBD-CGD-O2D
27	a	320	CHL	CHA-CBD-CGD-O2D
27	3	311	CHL	CHA-CBD-CGD-O2D
27	3	315	CHL	CHA-CBD-CGD-O2D
27	3	318	CHL	CHA-CBD-CGD-O1D
27	4	306	CHL	CHA-CBD-CGD-O2D
27	4	310	CHL	CHA-CBD-CGD-O2D
27	4	318	CHL	CHA-CBD-CGD-O2D
27	5	309	CHL	CHA-CBD-CGD-O2D
27	5	310	CHL	CHA-CBD-CGD-O1D
27	5	321	CHL	CHA-CBD-CGD-O1D
27	5	322	CHL	CHA-CBD-CGD-O1D
27	6	309	CHL	CHA-CBD-CGD-O1D
27	6	316	CHL	CHA-CBD-CGD-O1D
27	6	320	CHL	CHA-CBD-CGD-O1D
27	7	317	CHL	CHA-CBD-CGD-O1D
27	7	320	CHL	CHA-CBD-CGD-O1D
27	7	324	CHL	CHA-CBD-CGD-O2D
27	8	312	CHL	CHA-CBD-CGD-O2D
27	8	315	CHL	CHA-CBD-CGD-O1D
27	8	316	CHL	CHA-CBD-CGD-O2D
27	8	322	CHL	CHA-CBD-CGD-O1D
27	8	326	CHL	CHA-CBD-CGD-O1D
27	L	303	CHL	CHA-CBD-CGD-O1D
27	L	303	CHL	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
27	b	309	CHL	CHA-CBD-CGD-O1D
27	b	309	CHL	CHA-CBD-CGD-O2D
27	b	313	CHL	CHA-CBD-CGD-O1D
27	b	314	CHL	CHA-CBD-CGD-O1D
27	b	315	CHL	CHA-CBD-CGD-O2D
27	b	316	CHL	CHA-CBD-CGD-O1D
27	b	317	CHL	CHA-CBD-CGD-O1D
29	F	303	LUT	C11-C10-C9-C19
29	4	302	LUT	C39-C29-C30-C31
23	A	808	LMT	C9-C10-C11-C12
27	a	319	CHL	C2A-CAA-CBA-CGA
30	J	101	LMG	O1-C7-C8-O7
27	5	314	CHL	CAA-CBA-CGA-O2A
27	B	815	CHL	C2-C3-C5-C6
27	B	844	CHL	C2-C3-C5-C6
27	8	314	CHL	C2-C3-C5-C6
27	6	308	CHL	C3-C5-C6-C7
27	A	829	CHL	CBA-CGA-O2A-C1
27	8	314	CHL	C8-C10-C11-C12
27	B	822	CHL	C11-C10-C8-C7
30	7	301	LMG	C13-C14-C15-C16
24	7	302	LHG	C16-C17-C18-C19
24	A	811	LHG	C35-C36-C37-C38
24	B	808	LHG	C11-C10-C9-C8
22	7	303	BCR	C21-C22-C23-C24
27	A	816	CHL	C11-C10-C8-C9
27	A	843	CHL	C11-C12-C13-C14
27	a	310	CHL	C6-C7-C8-C9
27	5	318	CHL	C11-C10-C8-C9
27	6	307	CHL	C6-C7-C8-C9
28	B	809	DGD	C5D-C6D-O5D-C1E
30	7	301	LMG	C8-C7-O1-C1
27	4	317	CHL	CAA-CBA-CGA-O1A
27	3	315	CHL	C2A-CAA-CBA-CGA
27	4	304	CHL	C2A-CAA-CBA-CGA
27	6	308	CHL	C2A-CAA-CBA-CGA
27	B	842	CHL	C2-C1-O2A-CGA
27	B	851	CHL	C2-C1-O2A-CGA
27	A	828	CHL	O1A-CGA-O2A-C1
26	A	815	CL0	C3-C5-C6-C7
27	B	814	CHL	C15-C16-C17-C18
27	3	311	CHL	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
27	A	824	CHL	C3A-C2A-CAA-CBA
27	A	859	CHL	C3A-C2A-CAA-CBA
27	B	826	CHL	C3A-C2A-CAA-CBA
27	B	835	CHL	C3A-C2A-CAA-CBA
27	B	838	CHL	C3A-C2A-CAA-CBA
27	B	846	CHL	C3A-C2A-CAA-CBA
27	5	315	CHL	C3A-C2A-CAA-CBA
27	5	319	CHL	C3A-C2A-CAA-CBA
27	L	303	CHL	C3A-C2A-CAA-CBA
27	4	313	CHL	CAA-CBA-CGA-O1A
27	B	811	CHL	CAA-CBA-CGA-O2A
27	a	319	CHL	C2C-C3C-CAC-CBC
26	A	815	CL0	CAA-CBA-CGA-O2A
27	3	320	CHL	CAA-CBA-CGA-O2A
24	4	303	LHG	C15-C16-C17-C18
22	K	203	BCR	C18-C19-C20-C21
22	L	301	BCR	C18-C19-C20-C21
24	7	302	LHG	C34-C35-C36-C37
24	b	302	LHG	C24-C25-C26-C27
27	A	827	CHL	C5-C6-C7-C8
24	7	306	LHG	C11-C12-C13-C14
22	B	804	BCR	C20-C21-C22-C23
22	6	301	BCR	C20-C21-C22-C23
29	8	304	LUT	C28-C29-C30-C31
27	A	829	CHL	O1A-CGA-O2A-C1
23	5	326	LMT	O5'-C1'-O1'-C1
27	A	838	CHL	C5-C6-C7-C8
27	A	845	CHL	C13-C15-C16-C17
27	5	307	CHL	O1A-CGA-O2A-C1
27	A	841	CHL	O1D-CGD-O2D-CED
29	7	304	LUT	C33-C34-C35-C15
24	A	812	LHG	C32-C33-C34-C35
27	4	305	CHL	CAA-CBA-CGA-O1A
27	b	317	CHL	CAA-CBA-CGA-O2A
27	B	815	CHL	C3-C5-C6-C7
27	A	850	CHL	C5-C6-C7-C8
27	b	315	CHL	C10-C11-C12-C13
27	A	858	CHL	C6-C7-C8-C9
27	7	319	CHL	C14-C13-C15-C16
24	4	303	LHG	C26-C27-C28-C29
27	B	815	CHL	CAA-CBA-CGA-O2A
27	4	308	CHL	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
27	b	307	CHL	CAA-CBA-CGA-O2A
24	A	812	LHG	O6-C4-C5-C6
24	A	812	LHG	C23-C24-C25-C26
26	A	815	CL0	C12-C13-C15-C16
27	A	816	CHL	C11-C10-C8-C7
27	A	823	CHL	C11-C10-C8-C7
27	A	843	CHL	C11-C12-C13-C15
27	A	855	CHL	C11-C10-C8-C7
27	a	310	CHL	C6-C7-C8-C10
27	5	309	CHL	C11-C10-C8-C7
27	5	318	CHL	C11-C10-C8-C7
27	6	307	CHL	C6-C7-C8-C10
27	4	305	CHL	CAA-CBA-CGA-O2A
22	A	803	BCR	C5-C6-C7-C8
22	A	803	BCR	C23-C24-C25-C26
22	A	803	BCR	C23-C24-C25-C30
22	A	804	BCR	C23-C24-C25-C26
22	A	805	BCR	C23-C24-C25-C26
22	A	805	BCR	C23-C24-C25-C30
22	B	803	BCR	C23-C24-C25-C26
22	B	804	BCR	C23-C24-C25-C26
22	B	805	BCR	C5-C6-C7-C8
22	B	805	BCR	C23-C24-C25-C26
22	B	806	BCR	C1-C6-C7-C8
22	B	806	BCR	C5-C6-C7-C8
22	B	806	BCR	C23-C24-C25-C26
22	B	807	BCR	C23-C24-C25-C26
22	B	807	BCR	C23-C24-C25-C30
22	F	301	BCR	C5-C6-C7-C8
22	K	203	BCR	C5-C6-C7-C8
22	3	301	BCR	C5-C6-C7-C8
22	3	303	BCR	C1-C6-C7-C8
22	3	303	BCR	C5-C6-C7-C8
22	8	302	BCR	C5-C6-C7-C8
22	8	302	BCR	C23-C24-C25-C26
27	4	310	CHL	CAA-CBA-CGA-O2A
27	A	853	CHL	C2-C1-O2A-CGA
27	B	821	CHL	C2-C1-O2A-CGA
27	B	838	CHL	C2-C1-O2A-CGA
27	3	311	CHL	C2-C1-O2A-CGA
27	3	312	CHL	C2-C1-O2A-CGA
27	7	319	CHL	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
24	7	302	LHG	O7-C7-C8-C9
27	A	821	CHL	CAA-CBA-CGA-O2A
27	4	308	CHL	C5-C6-C7-C8
27	5	309	CHL	C10-C11-C12-C13
27	B	835	CHL	CAA-CBA-CGA-O2A
27	5	325	CHL	CAA-CBA-CGA-O2A
27	6	312	CHL	CAA-CBA-CGA-O2A
27	6	316	CHL	CAA-CBA-CGA-O2A
30	a	301	LMG	O9-C10-O7-C8
24	A	810	LHG	C28-C29-C30-C31
27	8	313	CHL	CAA-CBA-CGA-O2A
30	J	101	LMG	O8-C28-C29-C30
27	A	817	CHL	C8-C10-C11-C12
27	K	207	CHL	CAA-CBA-CGA-O2A
27	A	818	CHL	CAA-CBA-CGA-O2A
27	B	818	CHL	C2-C3-C5-C6
30	7	301	LMG	C18-C19-C20-C21
27	8	312	CHL	CAA-CBA-CGA-O2A
23	A	808	LMT	C4'-C5'-C6'-O6'
27	b	311	CHL	C2C-C3C-CAC-CBC
23	A	808	LMT	C2-C1-O1'-C1'
27	B	822	CHL	C11-C10-C8-C9
24	A	811	LHG	C12-C13-C14-C15
27	3	312	CHL	CAA-CBA-CGA-O2A
27	5	311	CHL	CAA-CBA-CGA-O2A
27	6	305	CHL	CAA-CBA-CGA-O2A
24	A	810	LHG	C4-C5-C6-O8
27	7	314	CHL	C4-C3-C5-C6
27	A	836	CHL	CAA-CBA-CGA-O2A
27	4	311	CHL	CAA-CBA-CGA-O2A
27	5	309	CHL	CAA-CBA-CGA-O2A
30	8	307	LMG	O8-C28-C29-C30
27	B	827	CHL	C2-C3-C5-C6
22	A	807	BCR	C7-C8-C9-C10
22	3	303	BCR	C15-C16-C17-C18
27	8	316	CHL	C13-C15-C16-C17
24	A	812	LHG	O7-C7-C8-C9
27	4	307	CHL	CAA-CBA-CGA-O2A
27	6	309	CHL	CAA-CBA-CGA-O2A
27	b	312	CHL	CAA-CBA-CGA-O2A
27	A	832	CHL	C2A-CAA-CBA-CGA
27	F	309	CHL	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
27	6	310	CHL	C2A-CAA-CBA-CGA
27	8	325	CHL	C2A-CAA-CBA-CGA
27	7	319	CHL	C3-C5-C6-C7
27	A	828	CHL	CAA-CBA-CGA-O2A
24	a	305	LHG	C1-C2-C3-O3
27	A	829	CHL	C2-C1-O2A-CGA
27	A	831	CHL	C2-C1-O2A-CGA
27	A	855	CHL	C2-C1-O2A-CGA
27	B	832	CHL	C2-C1-O2A-CGA
27	B	841	CHL	C2-C1-O2A-CGA
27	B	847	CHL	CAA-CBA-CGA-O2A
34	8	301	SQD	O48-C23-C24-C25
20	A	801	PQN	C16-C17-C18-C20
20	A	801	PQN	C22-C23-C25-C26
20	B	801	PQN	C16-C17-C18-C20
27	B	846	CHL	C11-C10-C8-C7
27	B	839	CHL	C2-C3-C5-C6
27	8	321	CHL	C10-C11-C12-C13
24	4	303	LHG	C18-C19-C20-C21
27	B	848	CHL	C16-C17-C18-C19
24	8	305	LHG	C7-C8-C9-C10
27	B	819	CHL	C2C-C3C-CAC-CBC
24	8	305	LHG	C24-C25-C26-C27
27	a	320	CHL	CAA-CBA-CGA-O2A
27	A	858	CHL	C2A-CAA-CBA-CGA
27	B	827	CHL	C2A-CAA-CBA-CGA
27	3	318	CHL	C2A-CAA-CBA-CGA
20	B	801	PQN	C26-C27-C28-C29
27	5	307	CHL	CBA-CGA-O2A-C1
27	A	839	CHL	C5-C6-C7-C8
30	7	301	LMG	C17-C18-C19-C20
27	A	828	CHL	C3A-C2A-CAA-CBA
27	3	316	CHL	C3A-C2A-CAA-CBA
27	4	309	CHL	C3A-C2A-CAA-CBA
27	8	325	CHL	C3A-C2A-CAA-CBA
27	b	307	CHL	C4-C3-C5-C6
27	B	837	CHL	C5-C6-C7-C8
20	A	801	PQN	C18-C20-C21-C22
27	B	823	CHL	C5-C6-C7-C8
27	6	312	CHL	CAA-CBA-CGA-O1A
30	a	301	LMG	C32-C33-C34-C35
24	A	810	LHG	O10-C23-C24-C25

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Mol	Chain	Res	Type	Atoms
27	K	207	CHL	CAA-CBA-CGA-O1A
27	8	319	CHL	C2A-CAA-CBA-CGA
27	b	308	CHL	C2A-CAA-CBA-CGA
27	6	311	CHL	CBA-CGA-O2A-C1
27	A	823	CHL	C14-C13-C15-C16
27	A	838	CHL	C6-C7-C8-C9
27	6	307	CHL	C14-C13-C15-C16
24	8	305	LHG	C30-C31-C32-C33
24	A	812	LHG	O9-C7-C8-C9
27	b	317	CHL	CAA-CBA-CGA-O1A
24	4	303	LHG	C29-C30-C31-C32
24	4	303	LHG	C33-C34-C35-C36
29	b	301	LUT	C9-C10-C11-C12
24	a	305	LHG	O2-C2-C3-O3
27	B	815	CHL	C10-C11-C12-C13
27	3	310	CHL	C8-C10-C11-C12
27	3	311	CHL	C10-C11-C12-C13
29	5	303	LUT	C27-C28-C29-C39
27	A	818	CHL	CAA-CBA-CGA-O1A
24	A	810	LHG	C18-C19-C20-C21
27	b	313	CHL	CAA-CBA-CGA-O2A
27	A	856	CHL	C2-C3-C5-C6
27	A	821	CHL	CAA-CBA-CGA-O1A
27	4	310	CHL	CAA-CBA-CGA-O1A
27	8	313	CHL	CAA-CBA-CGA-O1A
27	b	307	CHL	CAA-CBA-CGA-O1A
34	8	301	SQD	O10-C23-C24-C25
30	7	301	LMG	C29-C30-C31-C32
24	8	305	LHG	C11-C10-C9-C8
27	8	316	CHL	CAA-CBA-CGA-O2A
24	7	306	LHG	O10-C23-C24-C25
27	A	828	CHL	CAA-CBA-CGA-O1A
27	4	308	CHL	CAA-CBA-CGA-O1A
27	5	309	CHL	CAA-CBA-CGA-O1A
27	5	311	CHL	CAA-CBA-CGA-O1A
27	6	305	CHL	CAA-CBA-CGA-O1A
27	8	312	CHL	CAA-CBA-CGA-O1A
30	8	307	LMG	O10-C28-C29-C30
27	7	324	CHL	C2C-C3C-CAC-CBC
27	A	818	CHL	C5-C6-C7-C8
27	A	828	CHL	C10-C11-C12-C13
24	8	305	LHG	O7-C5-C6-O8

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Mol	Chain	Res	Type	Atoms
24	A	812	LHG	C1-C2-C3-O3
27	B	815	CHL	CAA-CBA-CGA-O1A
24	a	305	LHG	O8-C23-C24-C25
27	3	311	CHL	CAA-CBA-CGA-O2A
27	A	834	CHL	C2A-CAA-CBA-CGA
27	a	307	CHL	C2A-CAA-CBA-CGA
24	8	305	LHG	C4-C5-C6-O8
27	B	835	CHL	CAA-CBA-CGA-O1A
27	3	312	CHL	CAA-CBA-CGA-O1A
27	6	309	CHL	CAA-CBA-CGA-O1A
27	7	320	CHL	CAA-CBA-CGA-O2A
27	b	312	CHL	CAA-CBA-CGA-O1A
27	6	313	CHL	CAD-CBD-CGD-O2D
27	B	847	CHL	CAA-CBA-CGA-O1A
30	J	104	LMG	O10-C28-O8-C9
24	A	811	LHG	C11-C10-C9-C8
27	8	316	CHL	C10-C11-C12-C13
27	A	826	CHL	C2-C1-O2A-CGA
27	B	834	CHL	C2-C1-O2A-CGA
27	6	306	CHL	C2-C1-O2A-CGA
30	a	301	LMG	C14-C15-C16-C17
24	A	812	LHG	O10-C23-C24-C25
27	A	836	CHL	CAA-CBA-CGA-O1A
27	B	814	CHL	C1A-C2A-CAA-CBA
24	7	302	LHG	O9-C7-C8-C9
27	4	311	CHL	CAA-CBA-CGA-O1A
24	A	812	LHG	O8-C23-C24-C25
27	A	858	CHL	CAA-CBA-CGA-O2A
27	F	308	CHL	CAA-CBA-CGA-O2A
27	a	317	CHL	CAA-CBA-CGA-O2A
24	7	306	LHG	C25-C26-C27-C28
27	a	320	CHL	CAA-CBA-CGA-O1A
27	8	317	CHL	CAA-CBA-CGA-O2A
35	8	306	DGA	CB2-CB3-CB4-CB5
24	a	305	LHG	O10-C23-C24-C25
27	A	858	CHL	CAA-CBA-CGA-O1A
27	3	311	CHL	CAA-CBA-CGA-O1A
27	4	307	CHL	CAA-CBA-CGA-O1A
27	8	316	CHL	CAA-CBA-CGA-O1A
27	b	313	CHL	CAA-CBA-CGA-O1A

There are no ring outliers.

240 monomers are involved in 573 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
27	A	854	CHL	1	0
27	B	829	CHL	2	0
26	A	815	CL0	2	0
27	B	844	CHL	5	0
27	b	315	CHL	5	0
24	a	305	LHG	12	0
30	7	301	LMG	1	0
27	A	853	CHL	4	0
27	A	855	CHL	4	0
27	A	840	CHL	3	0
24	5	304	LHG	3	0
27	B	836	CHL	4	0
27	B	851	CHL	4	0
27	6	306	CHL	3	0
27	4	313	CHL	6	0
27	J	106	CHL	2	0
27	3	314	CHL	1	0
27	6	308	CHL	12	0
27	A	833	CHL	3	0
27	7	320	CHL	4	0
22	B	806	BCR	4	0
22	6	301	BCR	1	0
24	b	302	LHG	2	0
27	B	847	CHL	1	0
27	a	315	CHL	5	0
27	b	307	CHL	1	0
27	b	310	CHL	1	0
27	A	830	CHL	5	0
29	3	304	LUT	4	0
27	5	315	CHL	3	0
27	b	305	CHL	1	0
27	6	316	CHL	5	0
27	A	820	CHL	4	0
27	b	309	CHL	3	0
27	B	833	CHL	1	0
27	A	858	CHL	4	0
27	A	842	CHL	7	0
27	8	312	CHL	4	0
27	3	317	CHL	3	0
27	6	311	CHL	1	0
27	3	308	CHL	1	0
27	A	844	CHL	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
32	5	305	PTY	1	0
27	5	323	CHL	3	0
22	8	302	BCR	5	0
27	B	845	CHL	2	0
29	4	302	LUT	2	0
27	A	832	CHL	3	0
27	3	319	CHL	1	0
29	8	304	LUT	2	0
27	A	843	CHL	19	0
29	b	301	LUT	3	0
27	a	316	CHL	6	0
22	F	301	BCR	1	0
27	B	815	CHL	2	0
27	a	317	CHL	1	0
27	4	315	CHL	2	0
27	8	317	CHL	1	0
30	8	307	LMG	3	0
35	8	306	DGA	3	0
27	B	822	CHL	4	0
27	6	318	CHL	3	0
27	b	317	CHL	15	0
27	A	829	CHL	1	0
27	6	307	CHL	6	0
23	B	810	LMT	4	0
22	K	203	BCR	5	0
22	J	102	BCR	6	0
27	A	839	CHL	8	0
27	B	830	CHL	3	0
23	F	302	LMT	1	0
27	B	848	CHL	3	0
27	a	310	CHL	2	0
27	a	313	CHL	1	0
27	L	304	CHL	1	0
27	A	859	CHL	1	0
27	3	316	CHL	6	0
27	B	818	CHL	3	0
27	5	313	CHL	3	0
27	B	849	CHL	2	0
24	7	306	LHG	1	0
27	B	838	CHL	1	0
22	B	804	BCR	1	0
22	A	804	BCR	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
27	7	313	CHL	3	0
27	A	856	CHL	1	0
27	A	831	CHL	8	0
27	5	307	CHL	1	0
24	A	811	LHG	3	0
27	8	314	CHL	5	0
23	5	306	LMT	2	0
27	5	311	CHL	3	0
24	5	324	LHG	1	0
27	7	311	CHL	1	0
27	4	306	CHL	6	0
27	4	320	CHL	2	0
22	5	301	BCR	8	0
22	3	301	BCR	2	0
27	b	306	CHL	5	0
27	3	313	CHL	1	0
27	4	319	CHL	1	0
27	5	319	CHL	3	0
29	4	301	LUT	6	0
27	5	325	CHL	4	0
27	B	817	CHL	2	0
27	8	324	CHL	1	0
27	7	319	CHL	9	0
24	7	302	LHG	6	0
27	A	845	CHL	3	0
27	4	309	CHL	3	0
27	A	822	CHL	1	0
27	7	321	CHL	3	0
27	7	324	CHL	1	0
27	8	318	CHL	1	0
27	A	838	CHL	1	0
27	A	818	CHL	2	0
22	B	805	BCR	1	0
27	A	816	CHL	4	0
27	4	304	CHL	2	0
27	4	316	CHL	12	0
24	A	810	LHG	1	0
27	4	311	CHL	1	0
27	B	840	CHL	1	0
27	8	326	CHL	1	0
27	5	309	CHL	4	0
27	5	316	CHL	8	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
27	7	318	CHL	3	0
27	5	308	CHL	3	0
22	K	202	BCR	4	0
27	8	323	CHL	6	0
27	B	811	CHL	1	0
27	6	312	CHL	2	0
22	A	807	BCR	3	0
27	b	308	CHL	37	0
30	J	101	LMG	4	0
27	5	322	CHL	1	0
29	F	303	LUT	4	0
29	5	302	LUT	3	0
24	4	303	LHG	7	0
24	A	812	LHG	3	0
27	K	204	CHL	1	0
27	6	319	CHL	3	0
20	B	801	PQN	2	0
22	3	303	BCR	2	0
27	A	841	CHL	7	0
27	A	848	CHL	2	0
27	A	852	CHL	2	0
22	B	802	BCR	3	0
27	B	820	CHL	6	0
27	3	309	CHL	1	0
27	b	304	CHL	1	0
27	B	831	CHL	2	0
27	3	315	CHL	3	0
27	B	846	CHL	3	0
29	8	303	LUT	6	0
27	b	316	CHL	1	0
27	B	835	CHL	1	0
27	B	832	CHL	1	0
22	3	302	BCR	5	0
27	7	323	CHL	4	0
29	J	103	LUT	1	0
29	a	302	LUT	2	0
27	K	205	CHL	1	0
27	A	827	CHL	1	0
22	A	805	BCR	2	0
22	I	801	BCR	2	0
27	B	834	CHL	3	0
27	B	837	CHL	4	0

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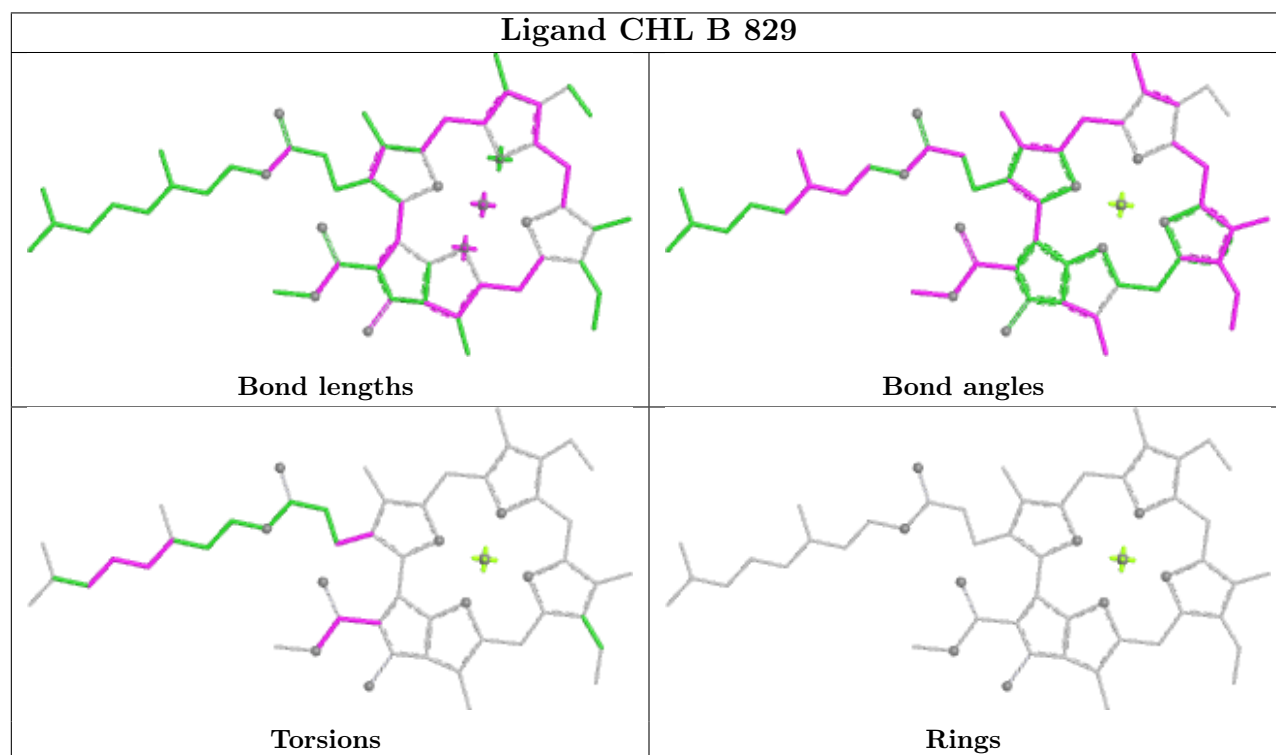
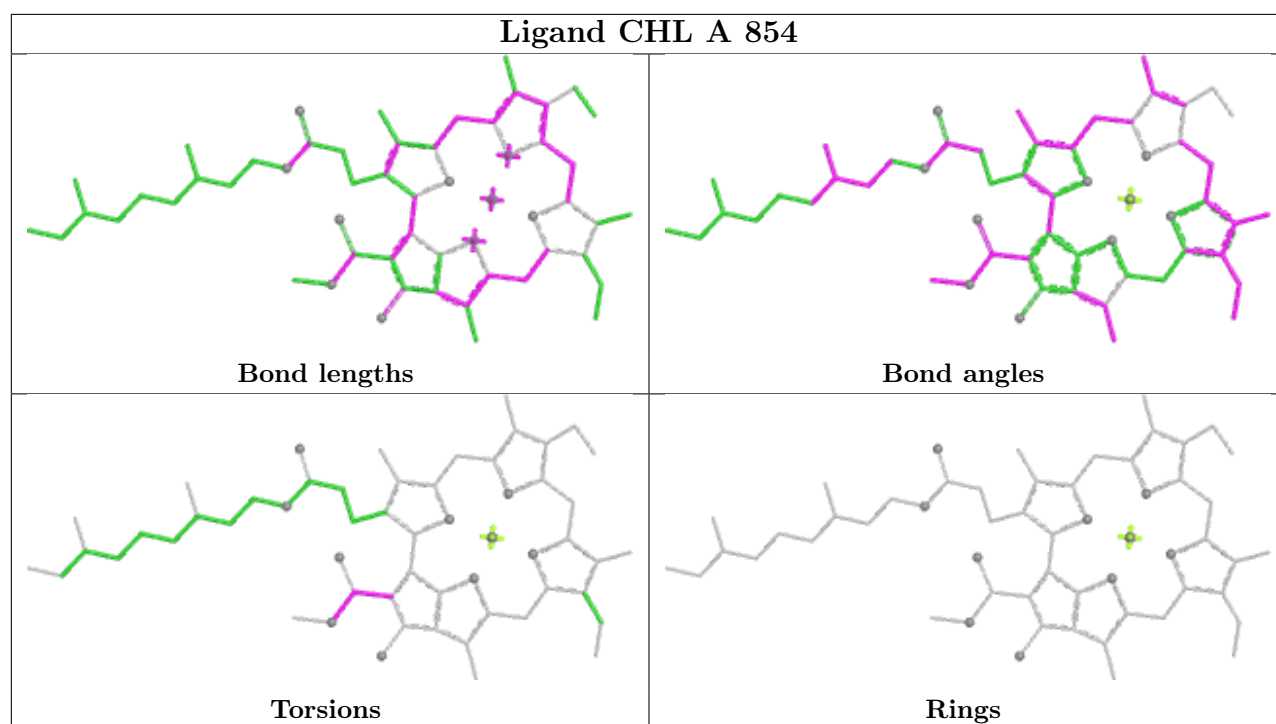
Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	B	807	BCR	4	0
27	B	841	CHL	5	0
27	B	842	CHL	1	0
27	7	322	CHL	6	0
29	6	303	LUT	2	0
27	A	824	CHL	3	0
27	B	839	CHL	3	0
27	3	311	CHL	1	0
27	8	320	CHL	1	0
27	8	311	CHL	5	0
27	A	835	CHL	2	0
27	3	320	CHL	2	0
28	B	809	DGD	1	0
22	A	803	BCR	3	0
29	7	304	LUT	3	0
27	A	821	CHL	1	0
27	a	314	CHL	1	0
29	5	303	LUT	5	0
27	b	313	CHL	1	0
27	B	816	CHL	4	0
27	A	847	CHL	1	0
27	B	827	CHL	1	0
27	A	823	CHL	3	0
23	A	808	LMT	2	0
29	3	305	LUT	6	0
27	B	814	CHL	4	0
22	7	303	BCR	3	0
27	a	311	CHL	2	0
27	6	305	CHL	1	0
28	7	307	DGD	5	0
27	A	828	CHL	3	0
22	L	301	BCR	1	0
27	4	307	CHL	1	0
27	A	817	CHL	5	0
27	a	309	CHL	2	0
27	5	317	CHL	4	0
27	5	321	CHL	1	0
27	7	317	CHL	4	0
27	8	316	CHL	1	0
27	4	317	CHL	10	0
27	8	321	CHL	2	0
27	b	311	CHL	6	0

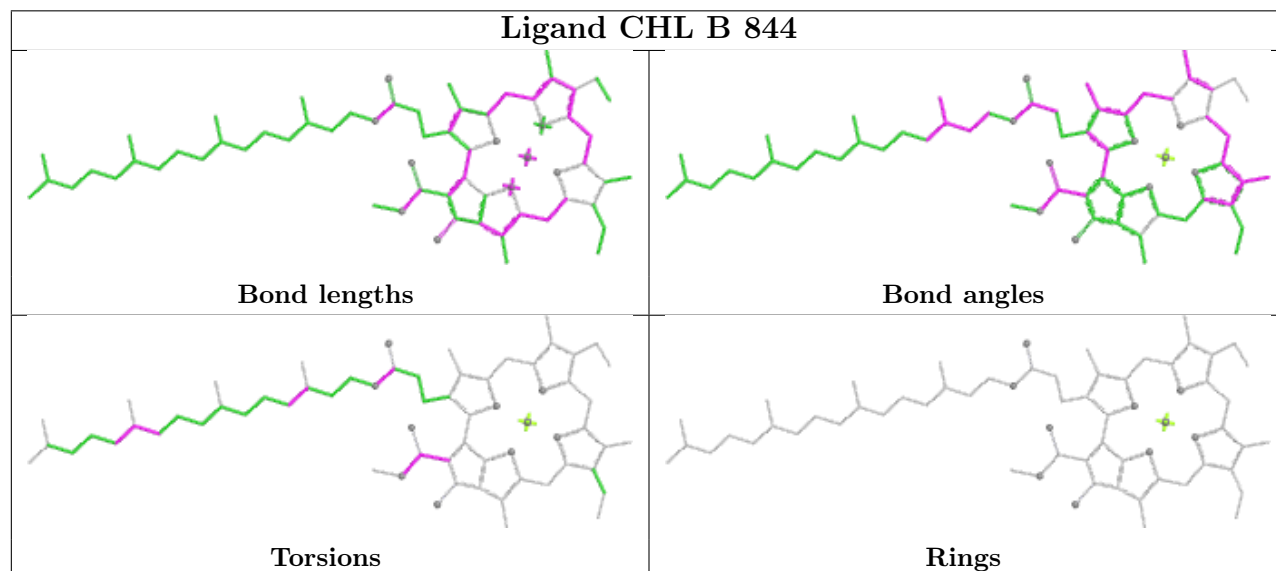
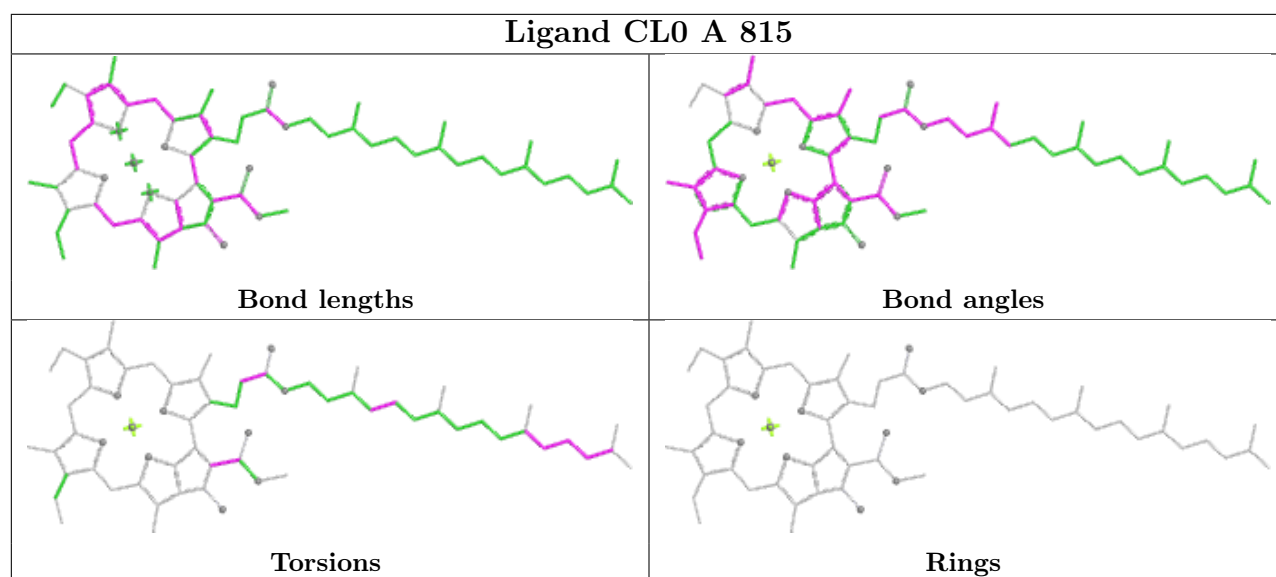
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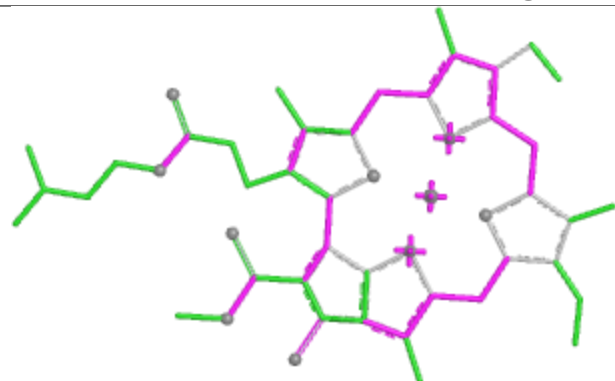
Mol	Chain	Res	Type	Clashes	Symm-Clashes
27	6	313	CHL	1	0
27	a	308	CHL	1	0
27	B	821	CHL	2	0
29	b	303	LUT	7	0
22	L	302	BCR	1	0
27	A	857	CHL	1	0
34	8	301	SQD	1	0
23	7	308	LMT	1	0
27	a	320	CHL	1	0
27	4	312	CHL	4	0
27	A	846	CHL	7	0
27	6	317	CHL	4	0
30	J	104	LMG	1	0
27	5	310	CHL	1	0
27	B	812	CHL	1	0
30	a	301	LMG	2	0
27	A	850	CHL	2	0
27	a	319	CHL	1	0
27	3	310	CHL	4	0
27	A	836	CHL	2	0
27	4	314	CHL	2	0
27	A	834	CHL	5	0
27	a	318	CHL	5	0
27	L	303	CHL	2	0
27	A	825	CHL	2	0
29	6	302	LUT	2	0
27	A	837	CHL	2	0
27	K	207	CHL	1	0
27	A	826	CHL	3	0
27	5	318	CHL	4	0

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

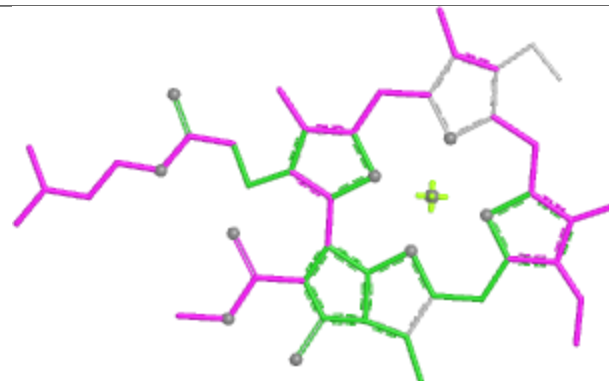




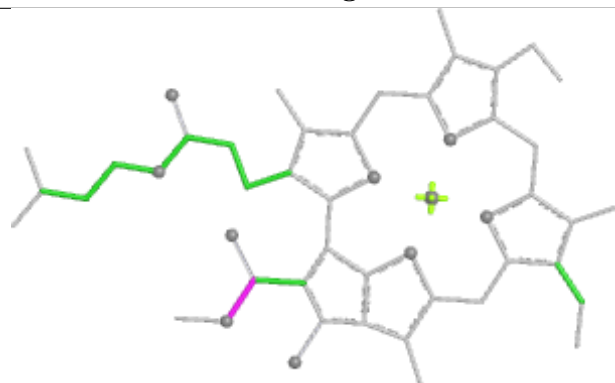
Ligand CHL 6 315



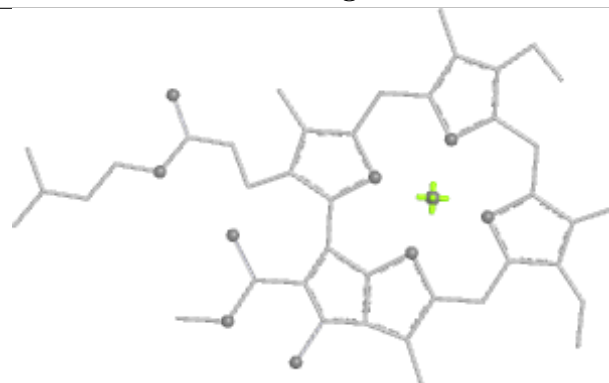
Bond lengths



Bond angles

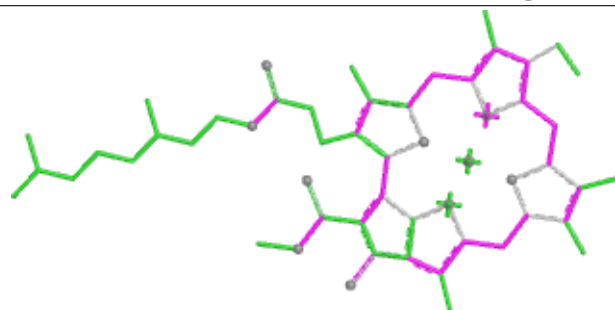


Torsions

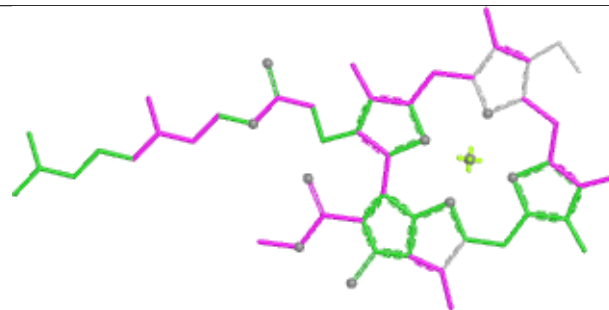


Rings

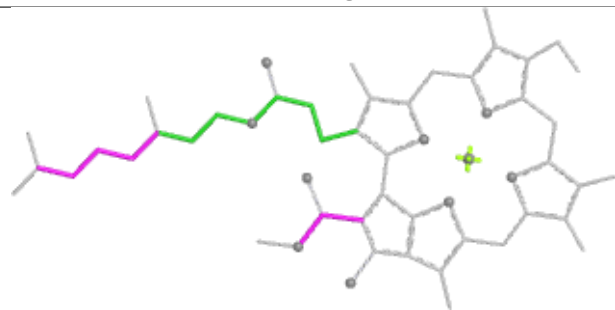
Ligand CHL 7 316



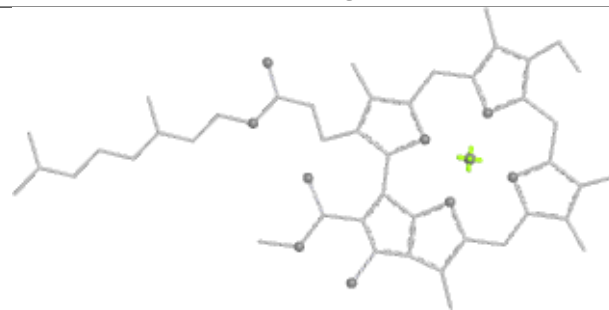
Bond lengths



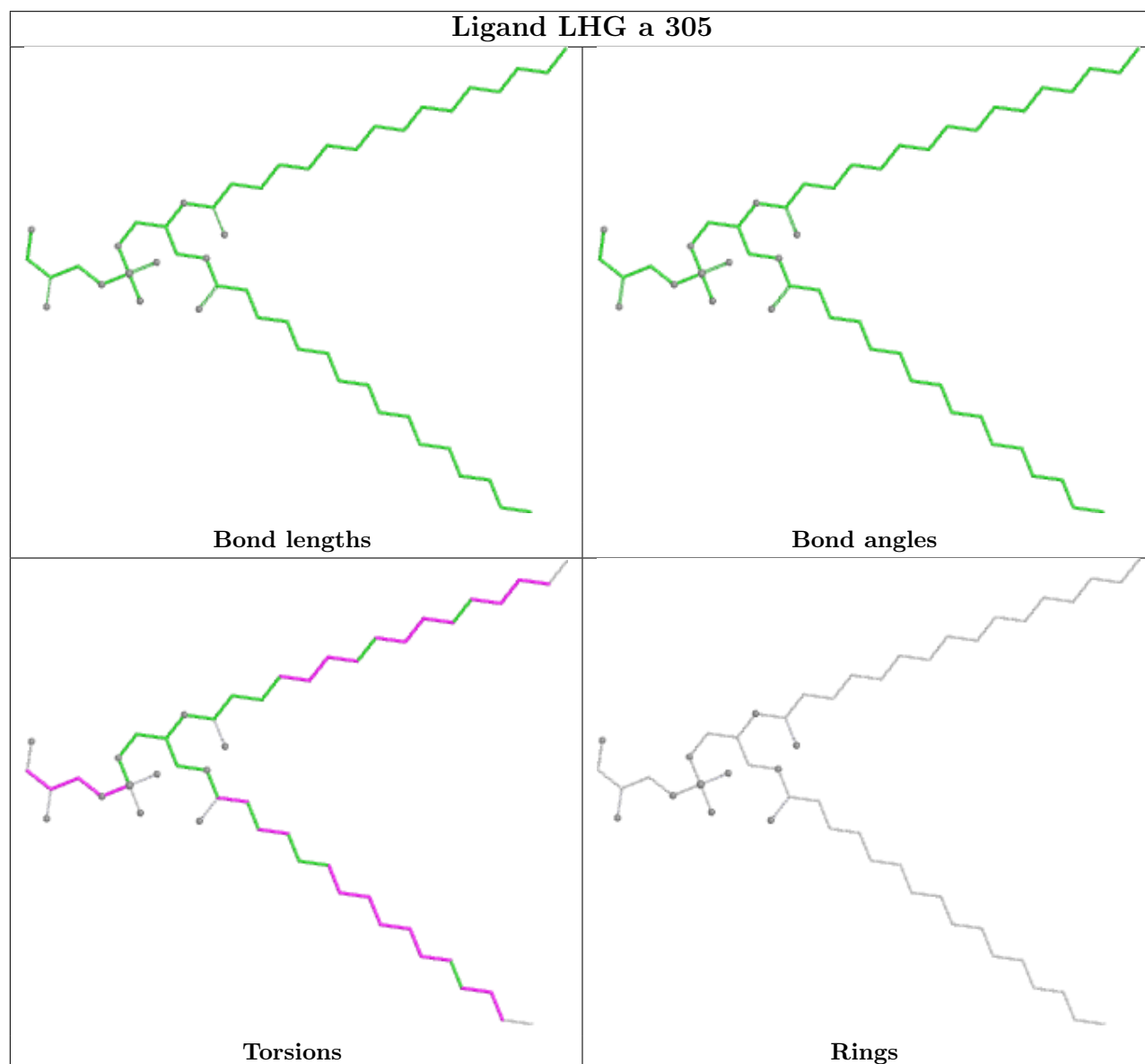
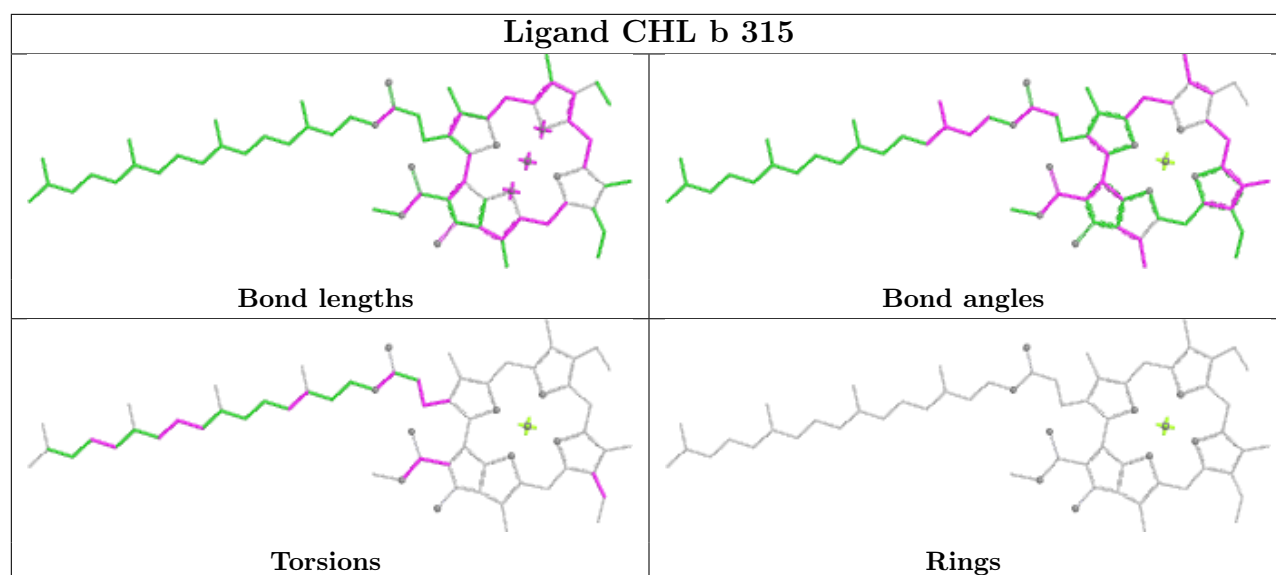
Bond angles

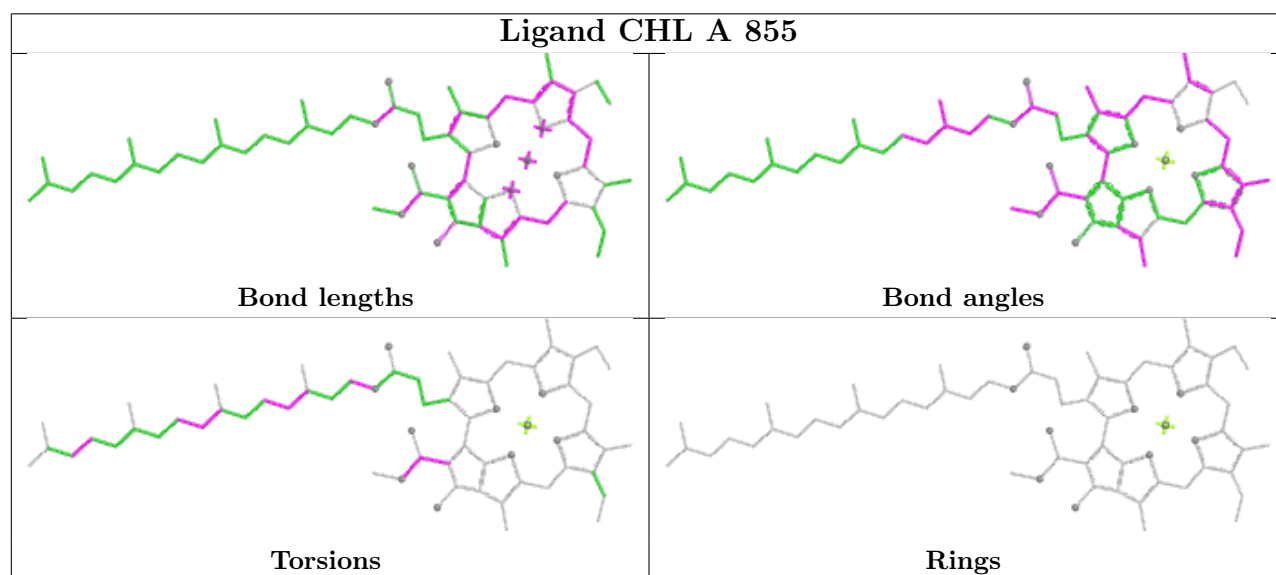
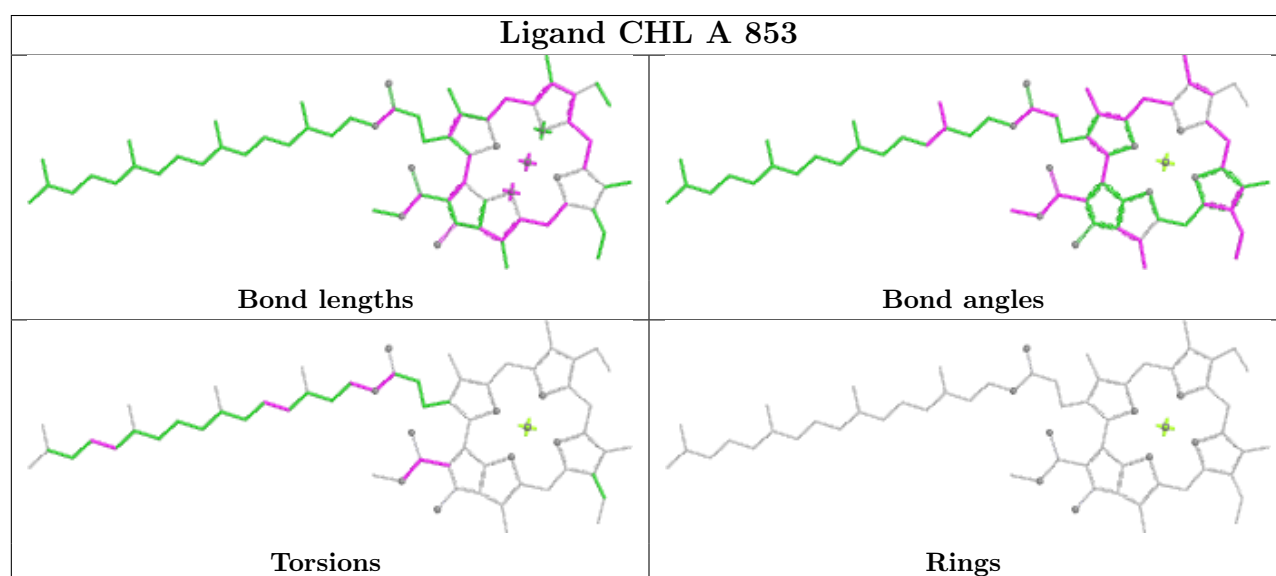
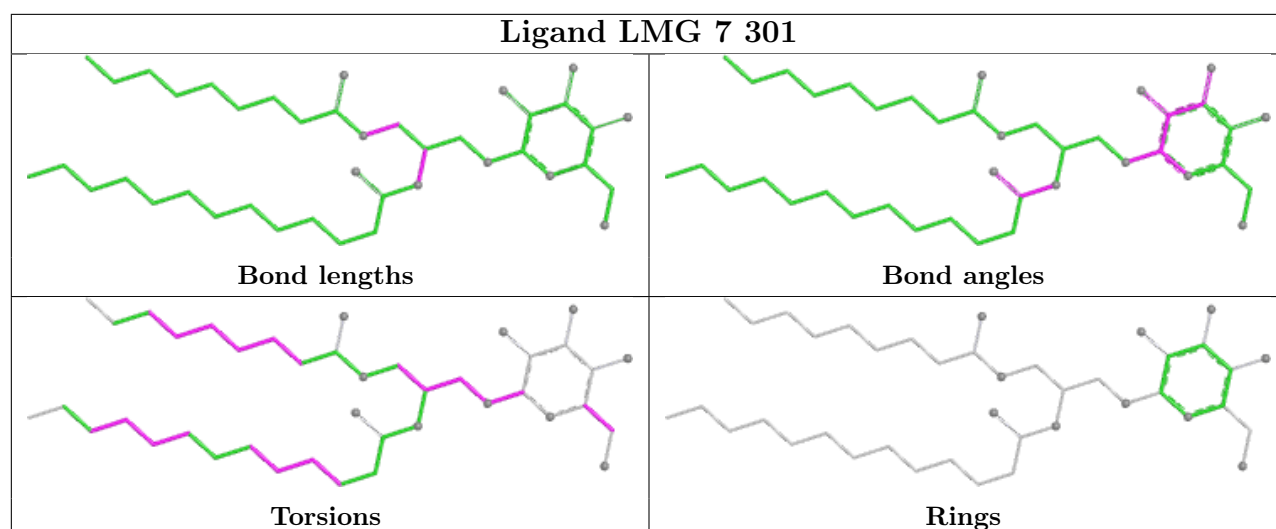


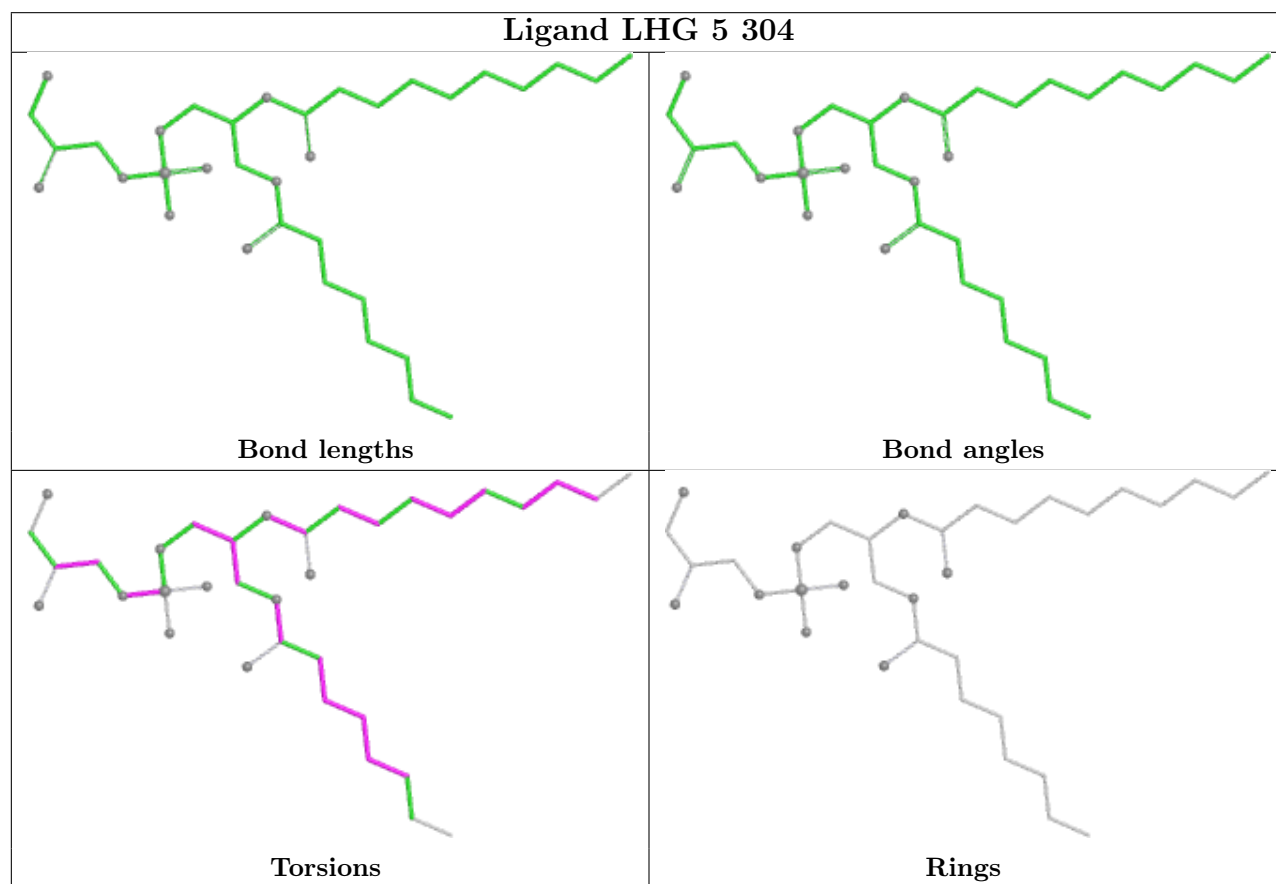
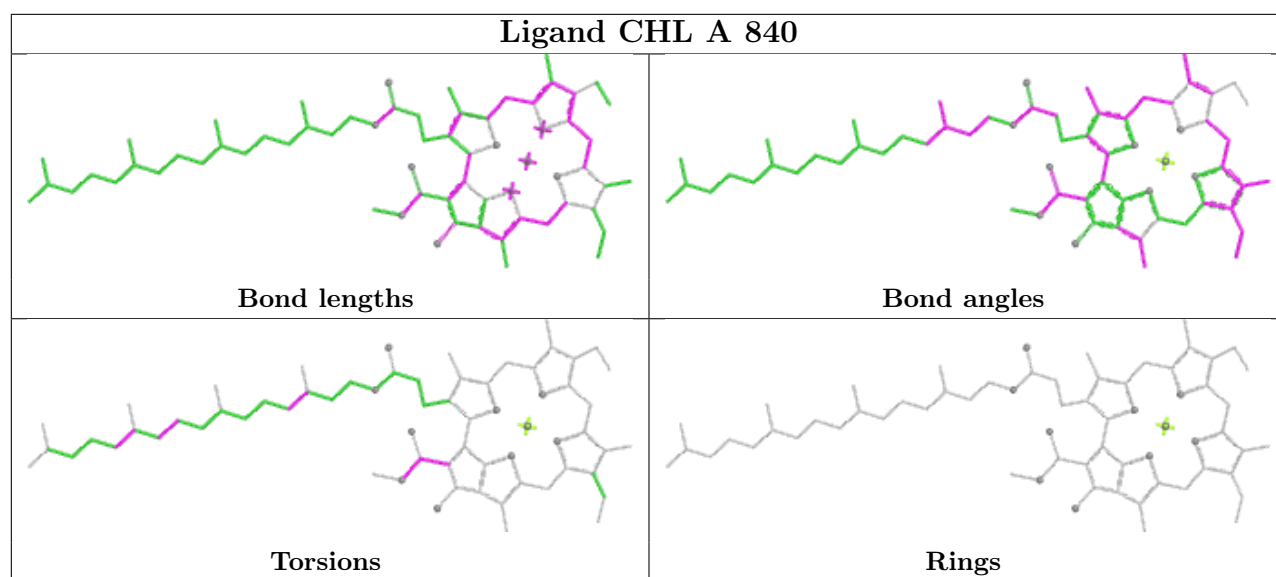
Torsions

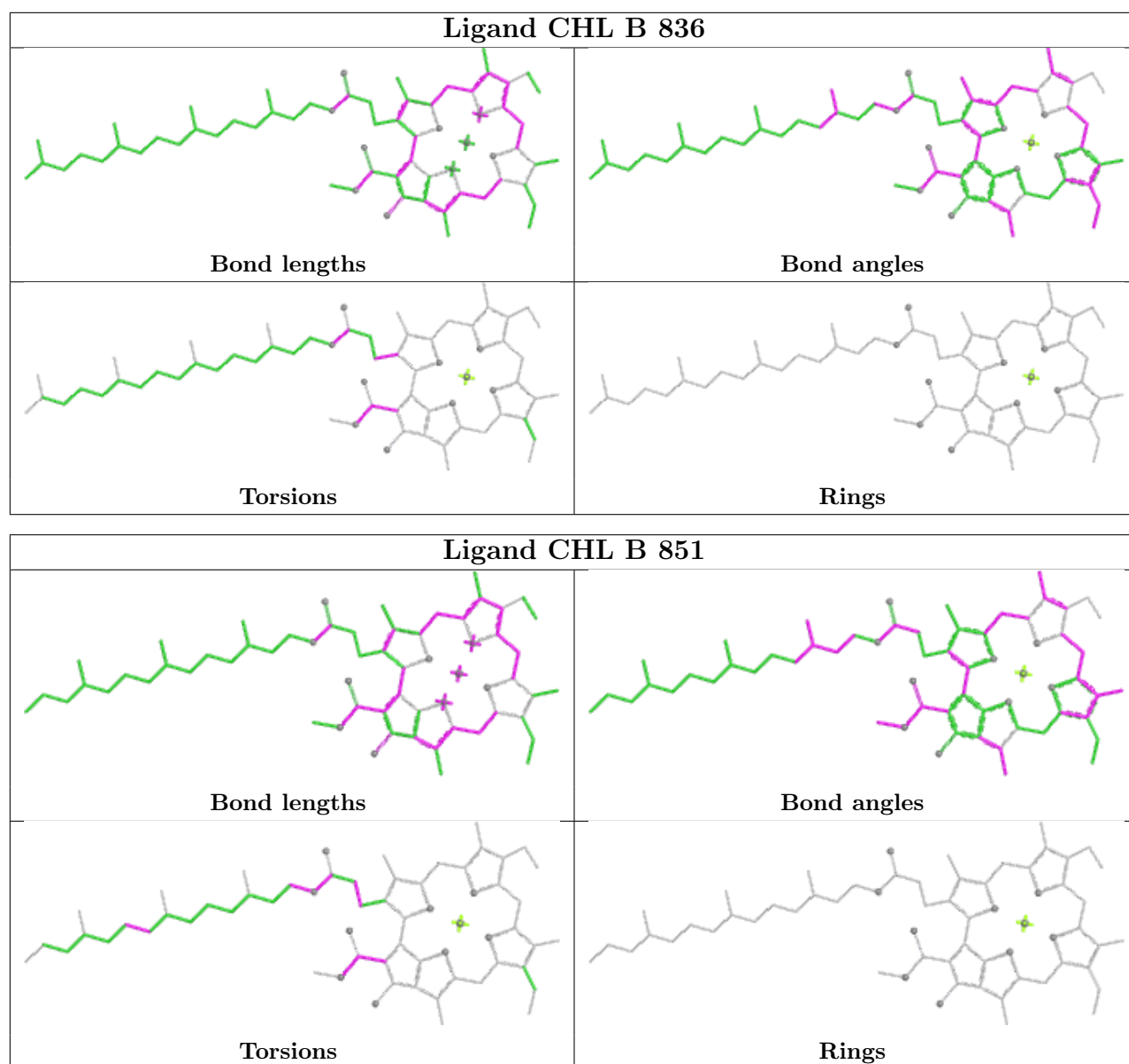


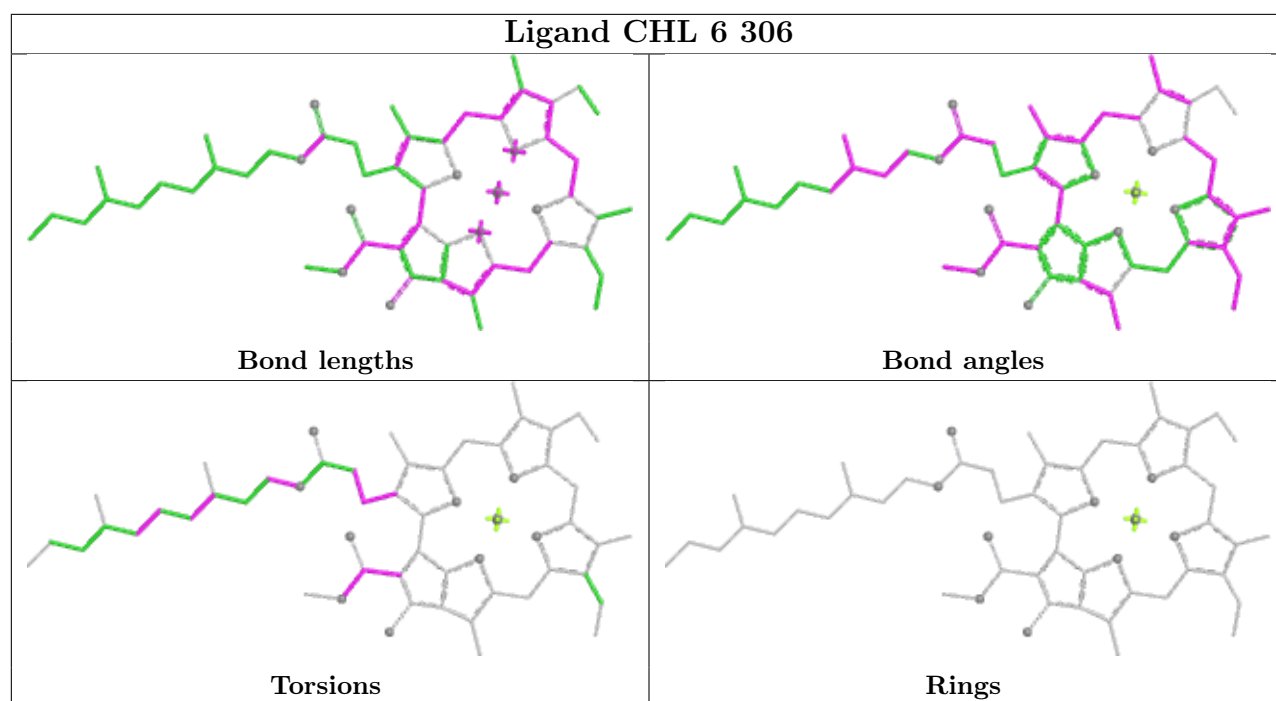
Rings



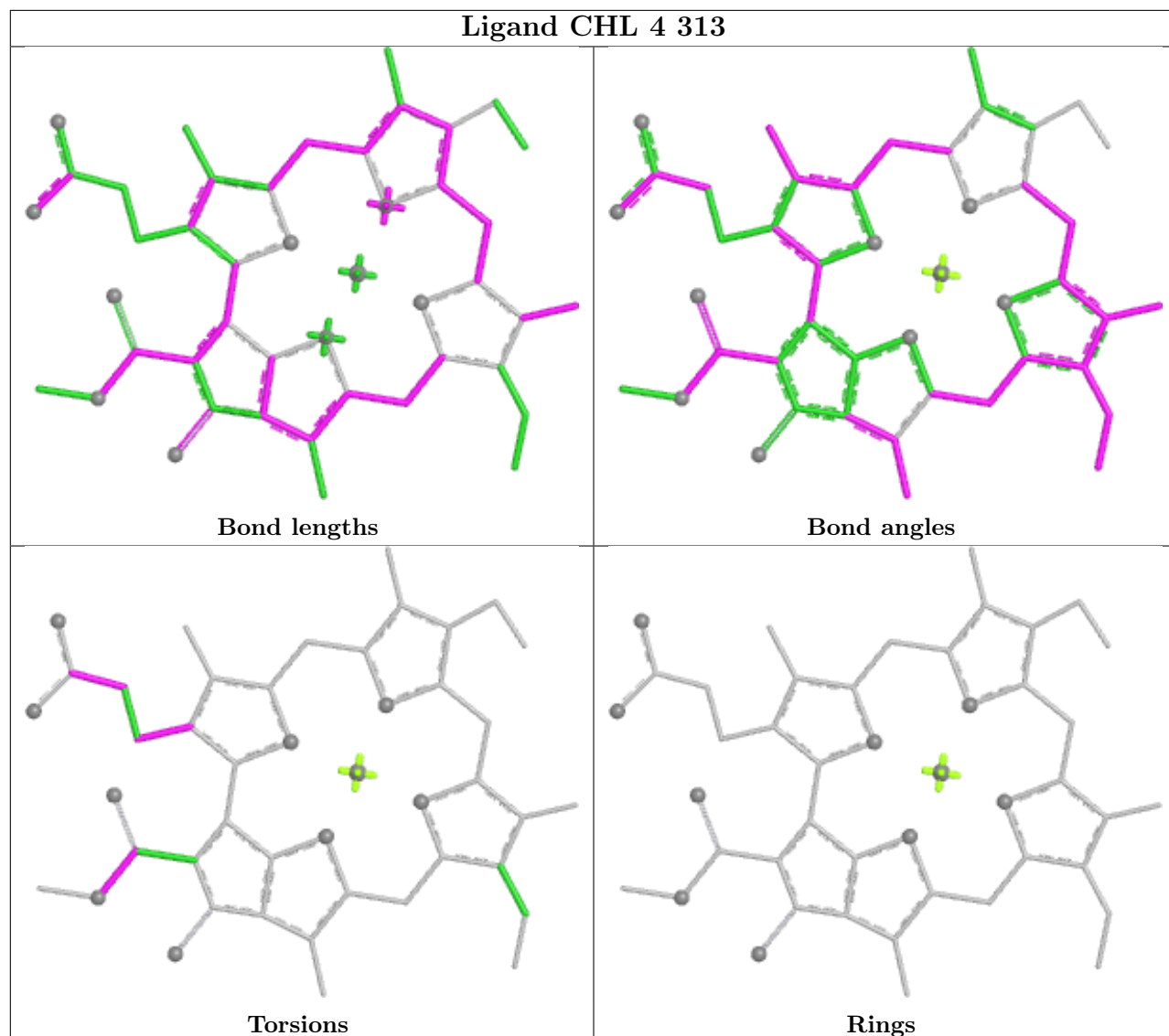




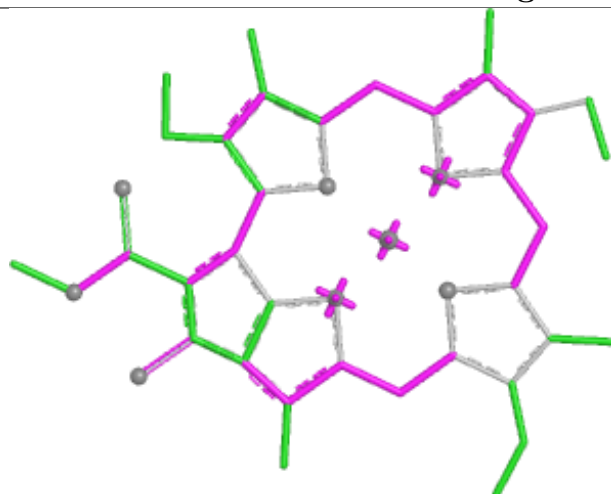




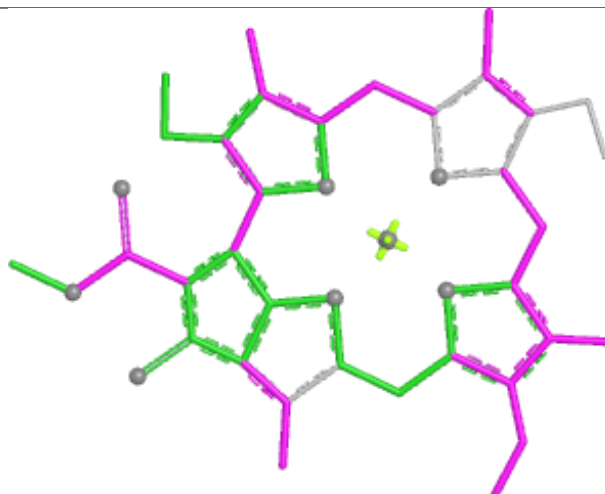
Ligand CHL 4 313



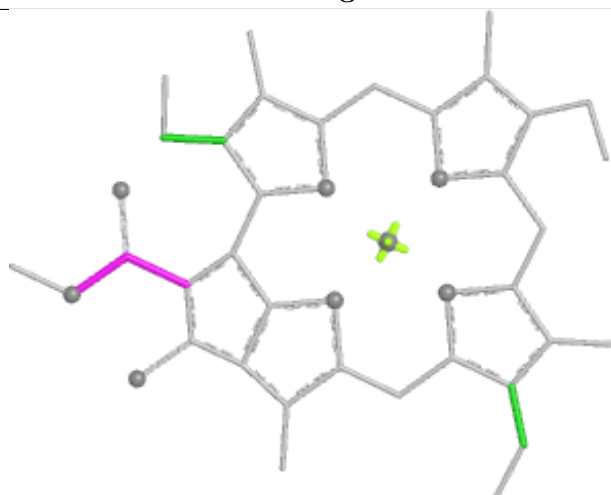
Ligand CHL J 106



Bond lengths



Bond angles

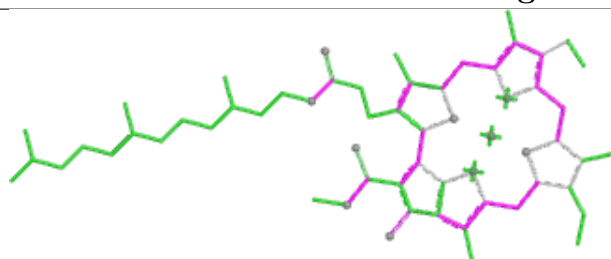


Torsions

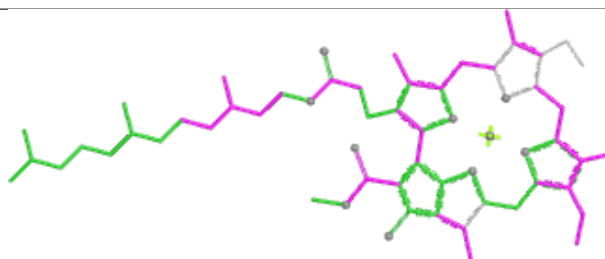


Rings

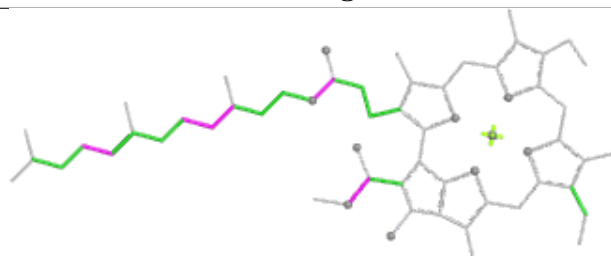
Ligand CHL 3 314



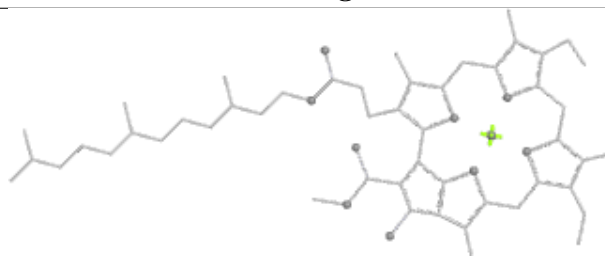
Bond lengths



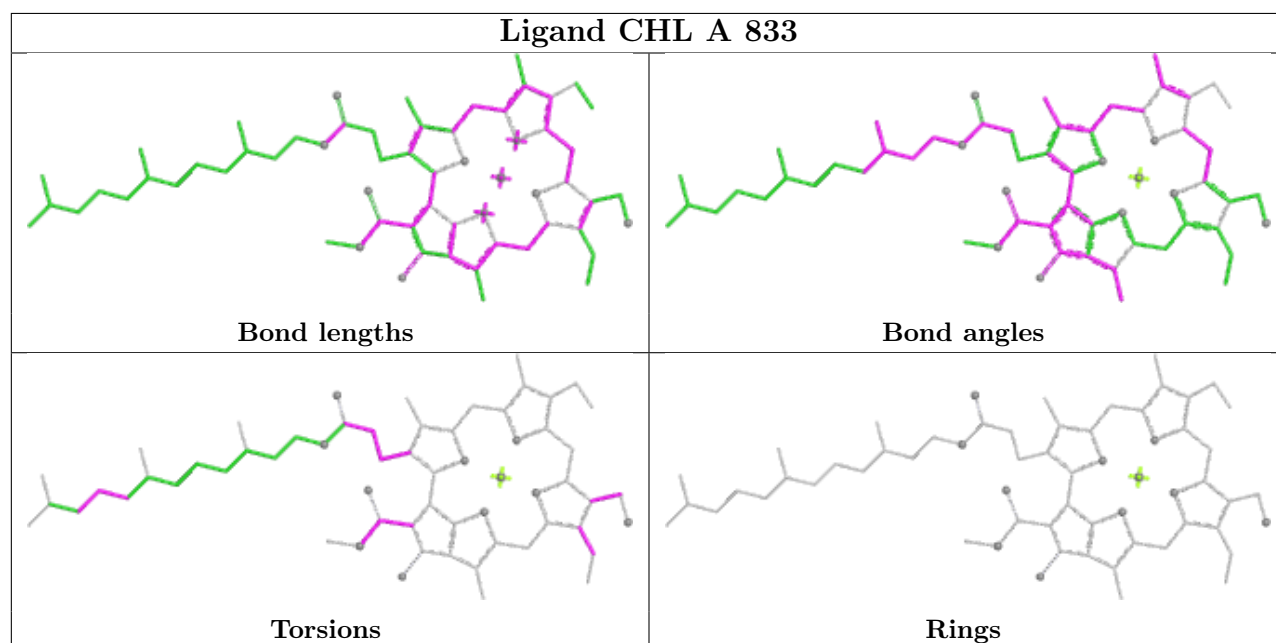
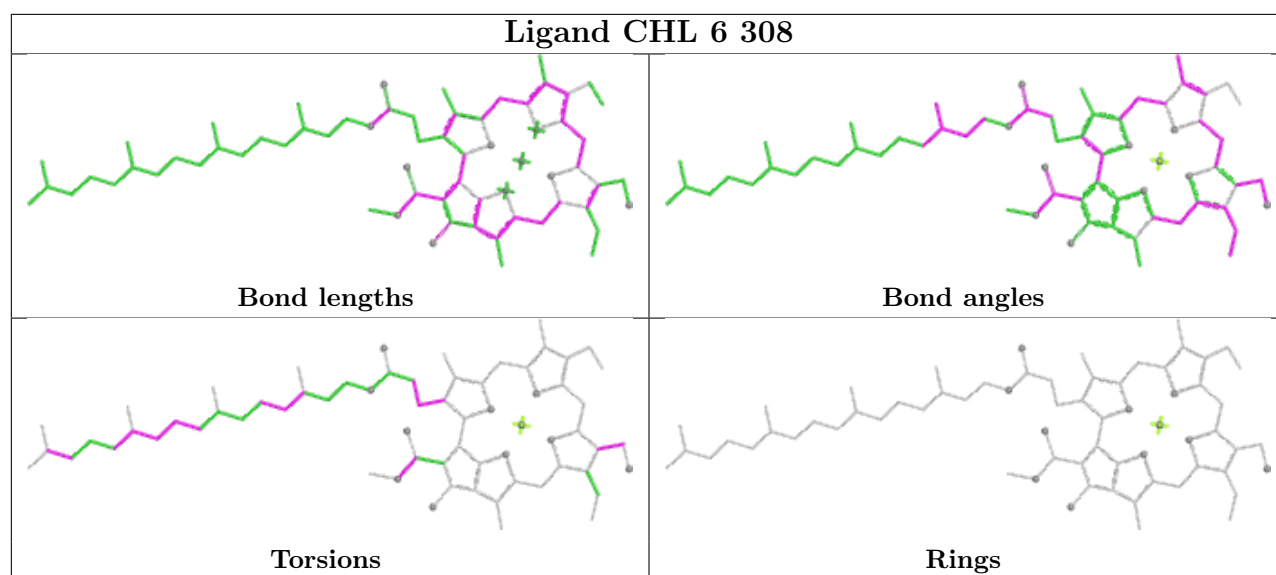
Bond angles



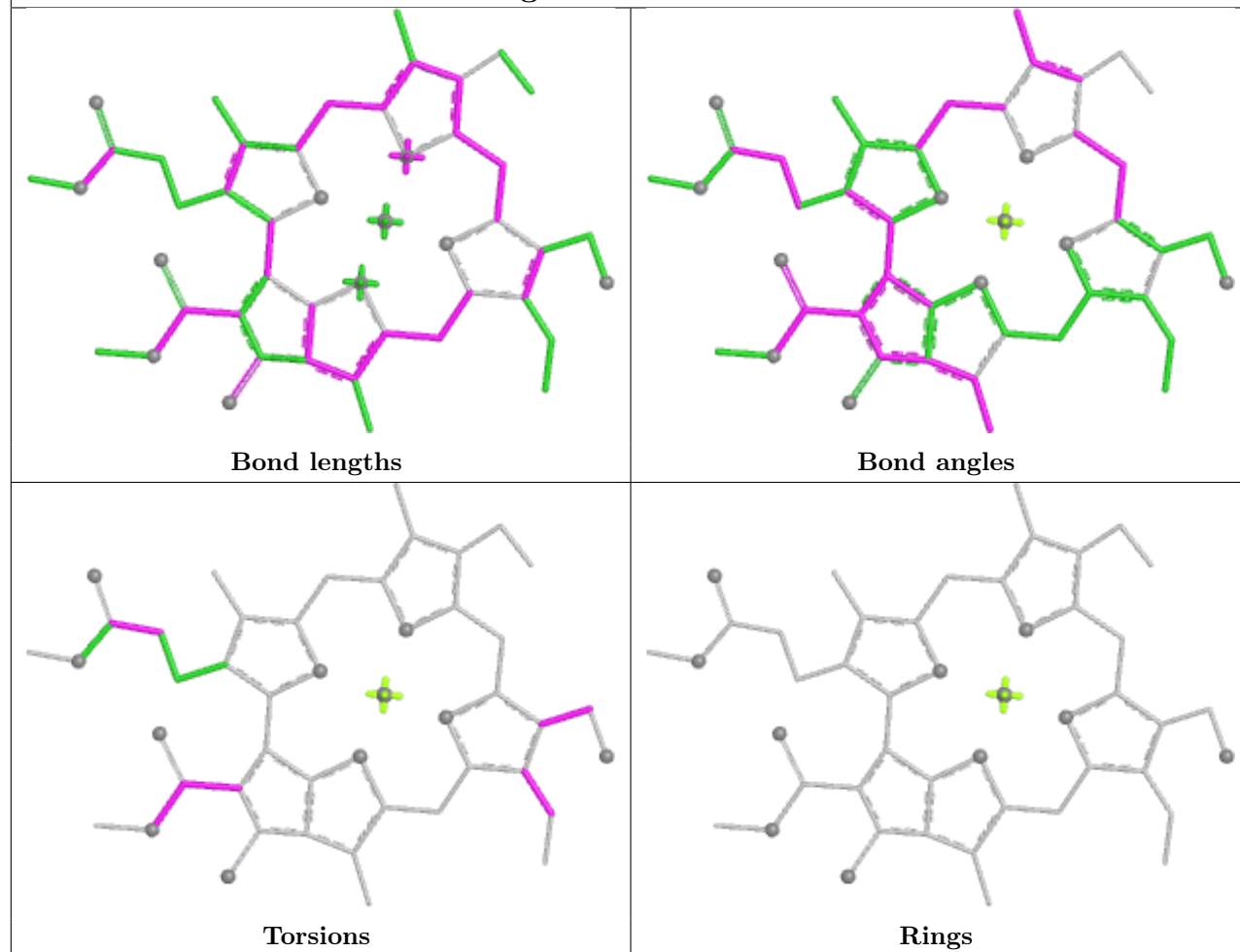
Torsions



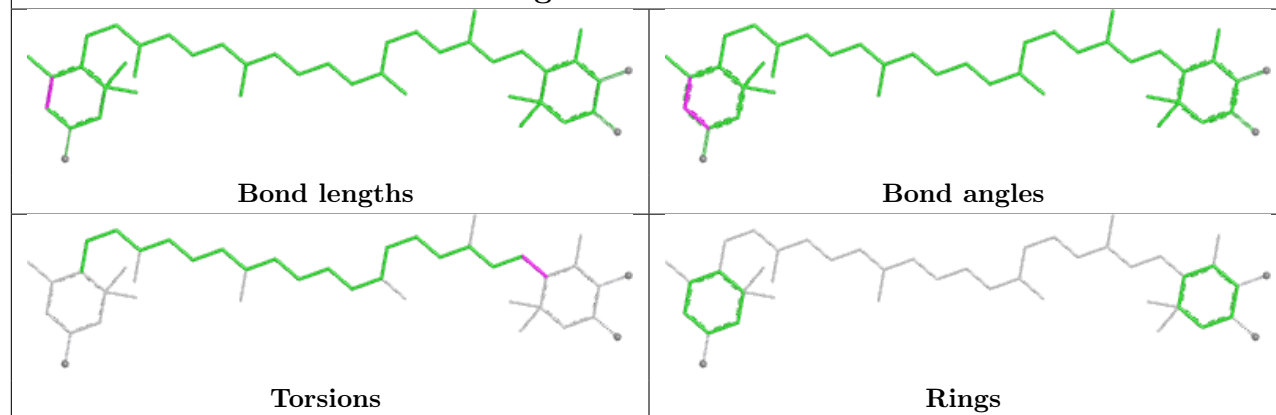
Rings

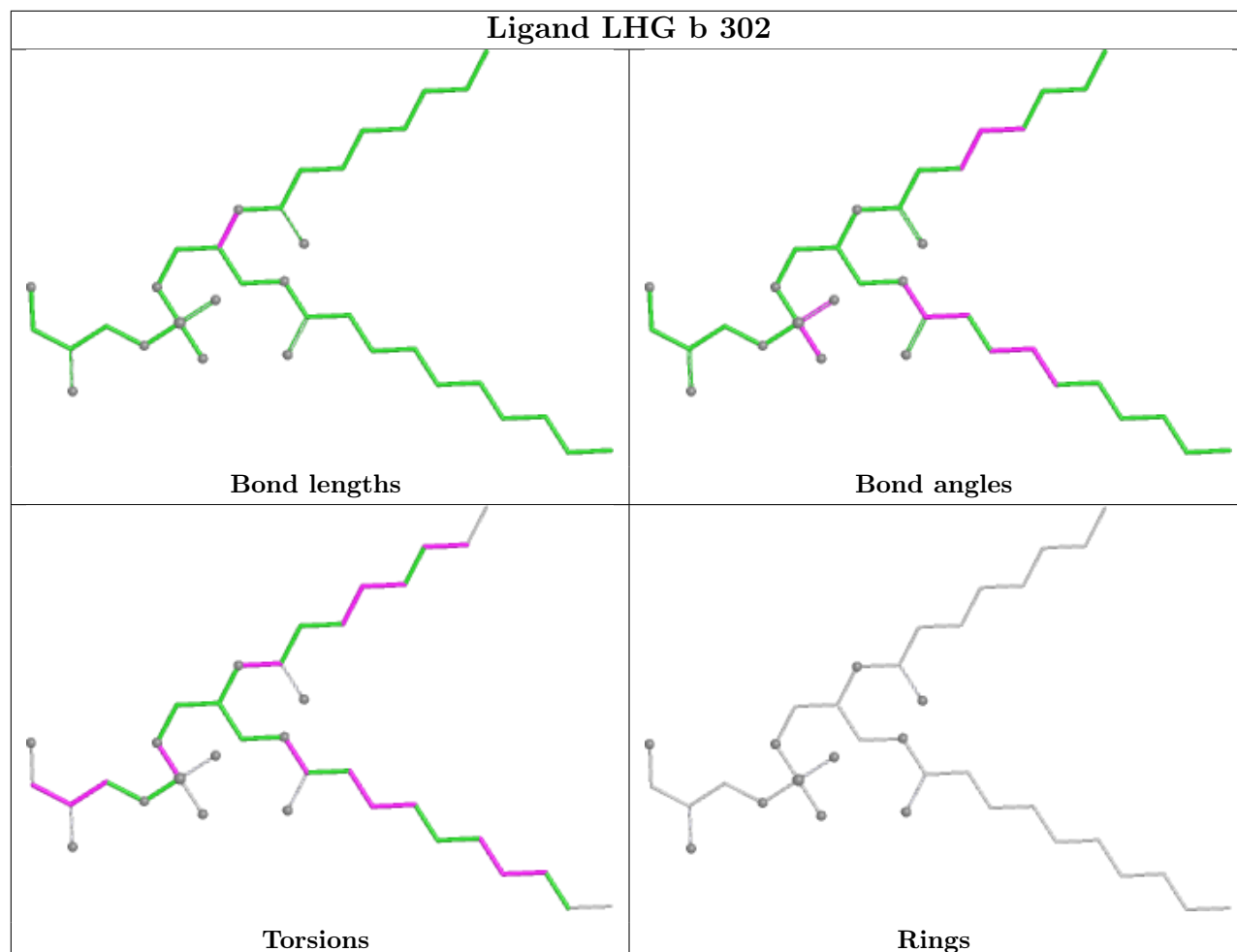
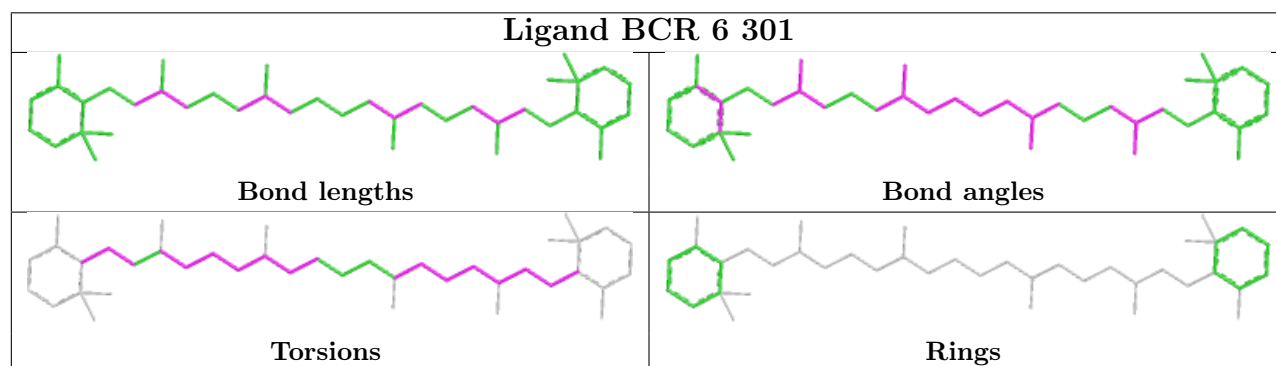
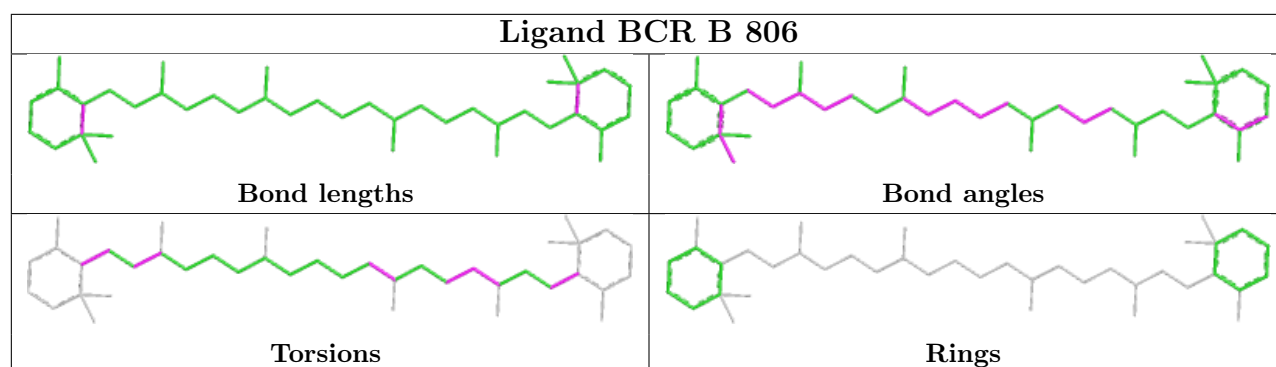


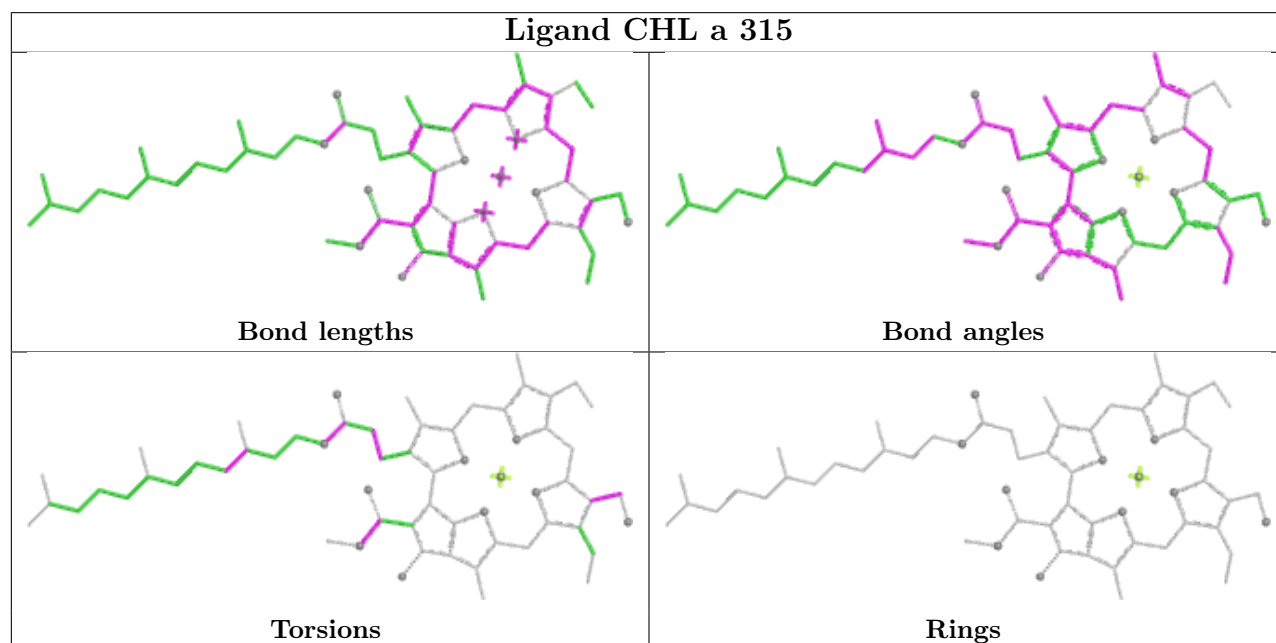
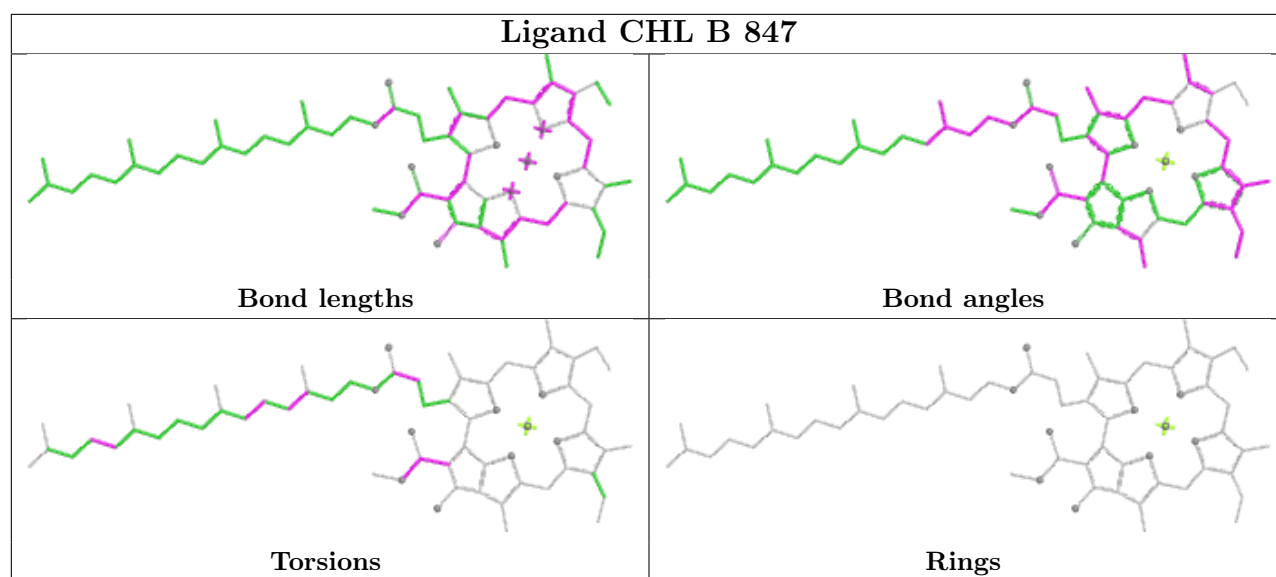
Ligand CHL 7 320

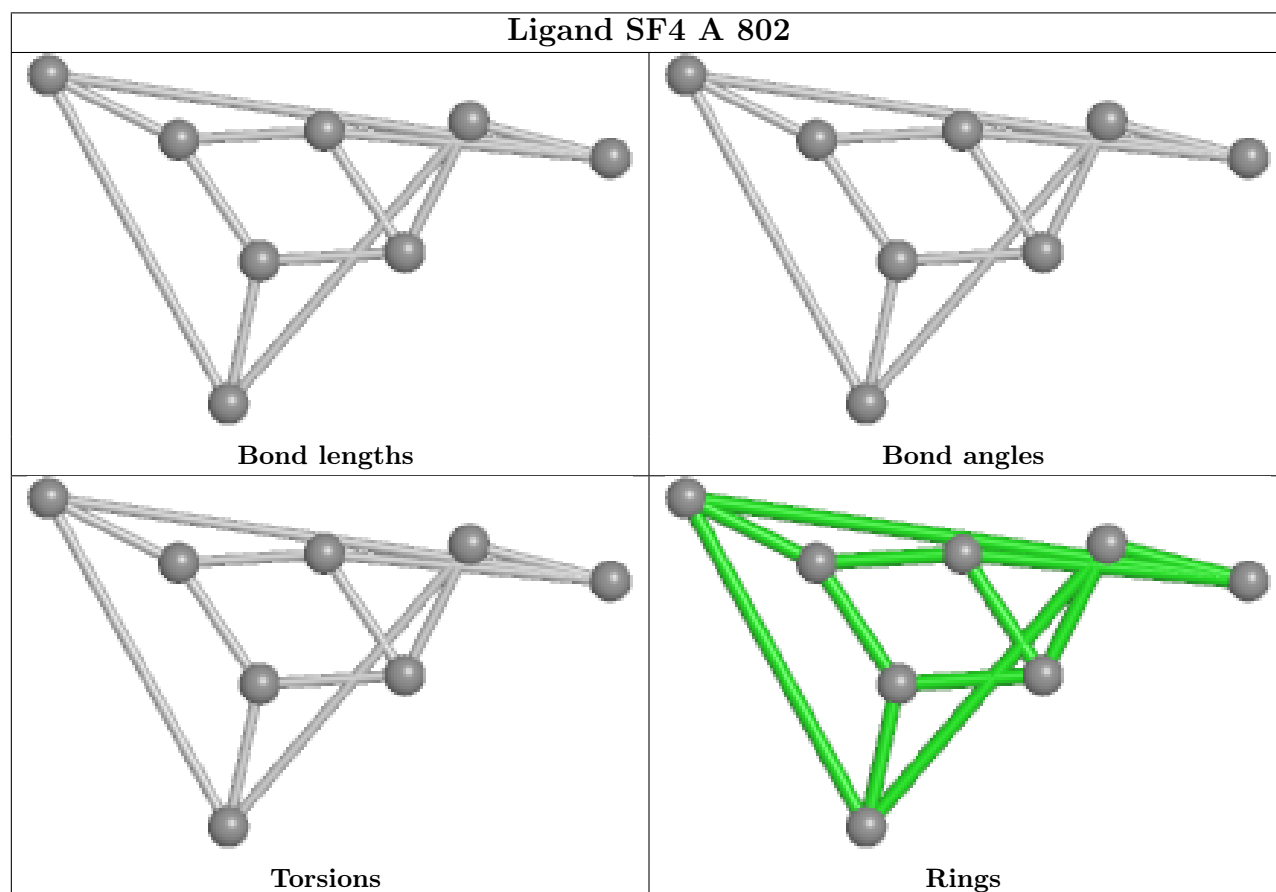
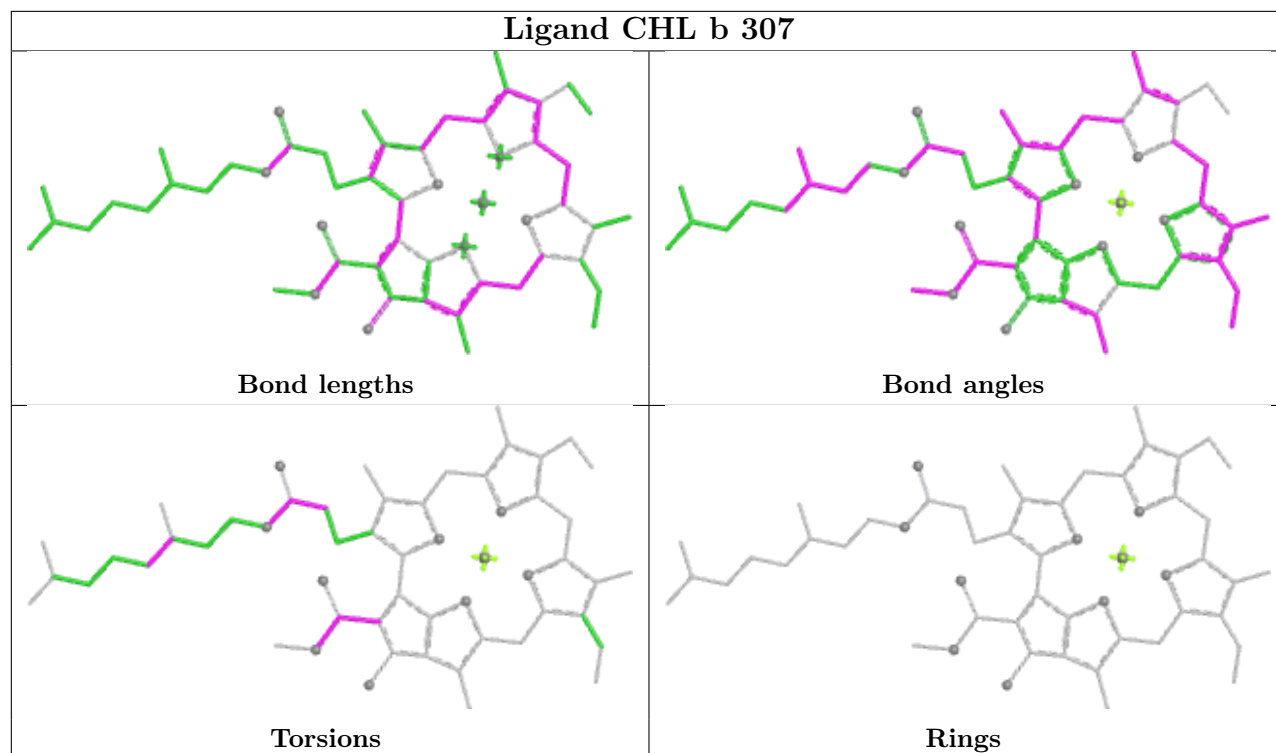


Ligand AXT a 303

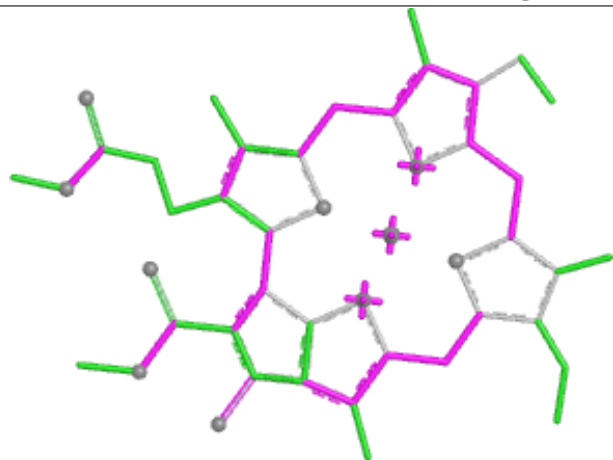




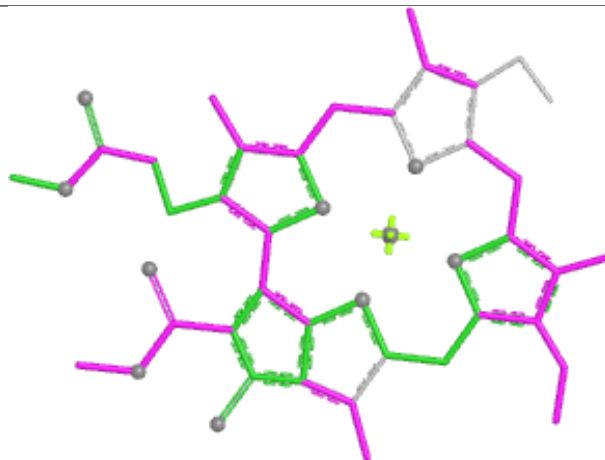




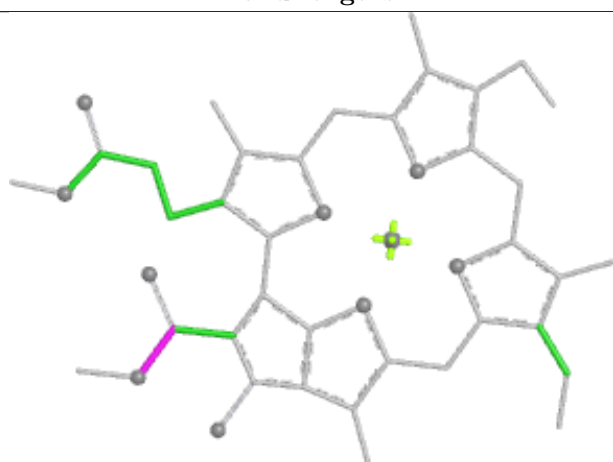
Ligand CHL b 310



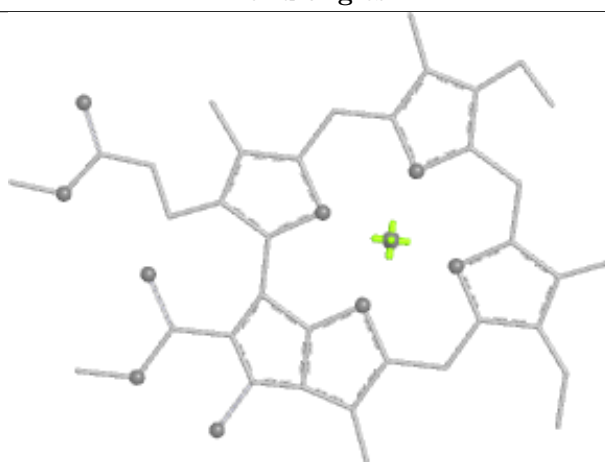
Bond lengths



Bond angles

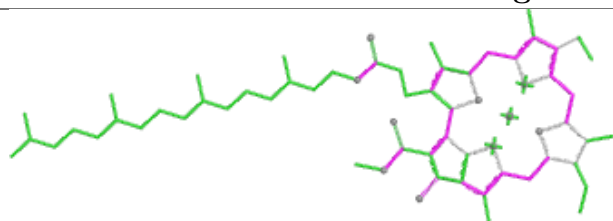


Torsions

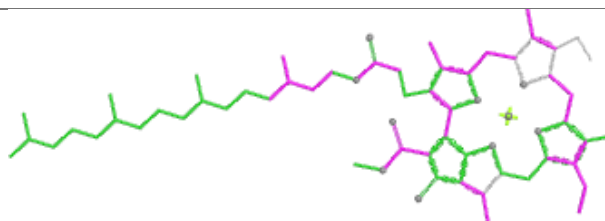


Rings

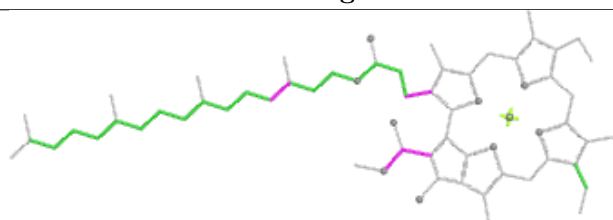
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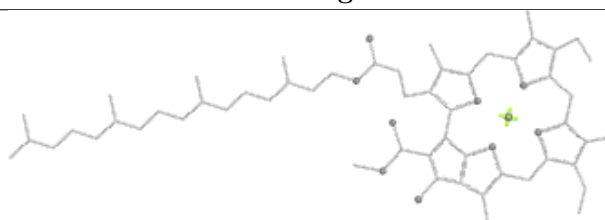
Bond lengths



Bond angles

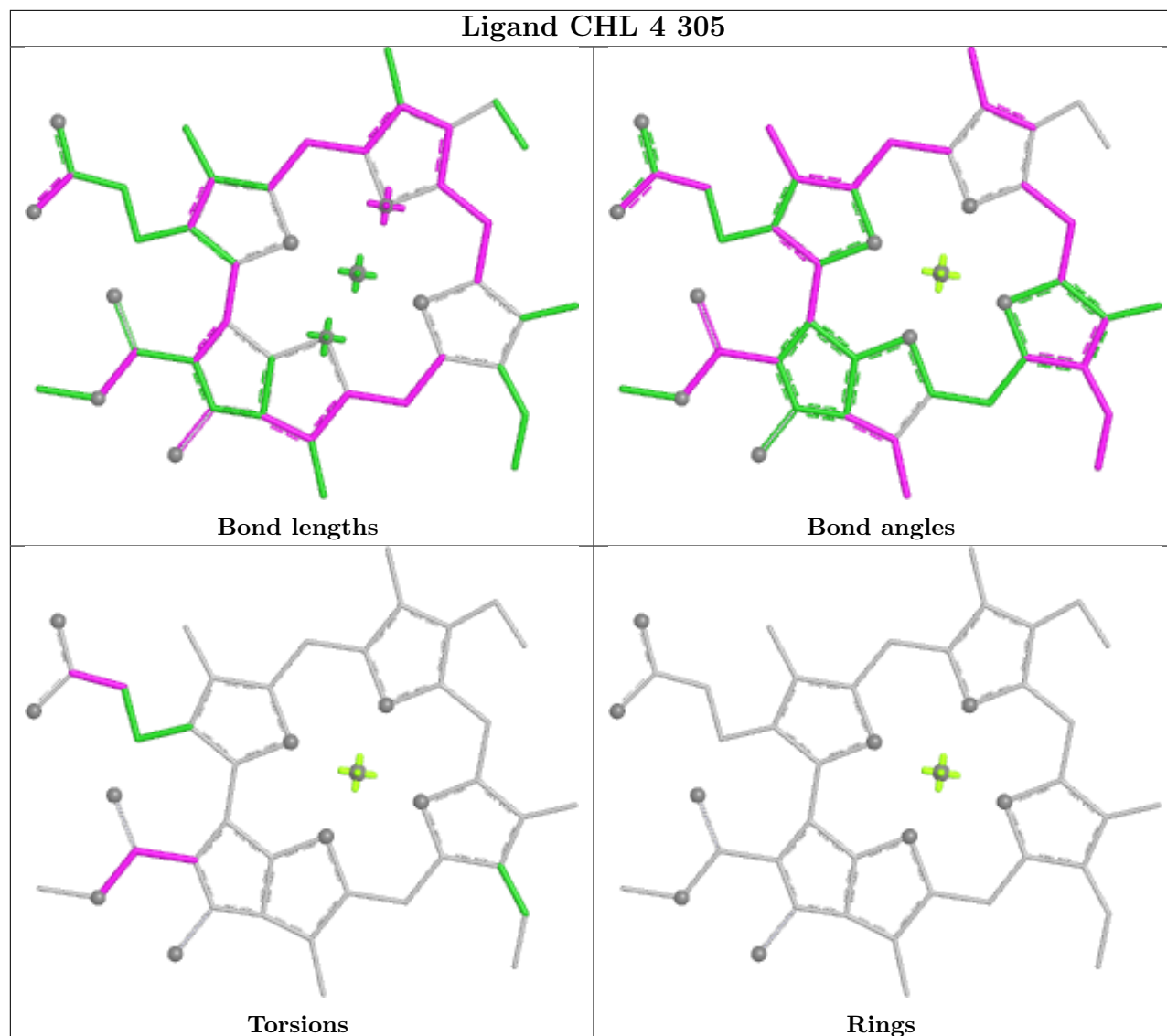


Torsions

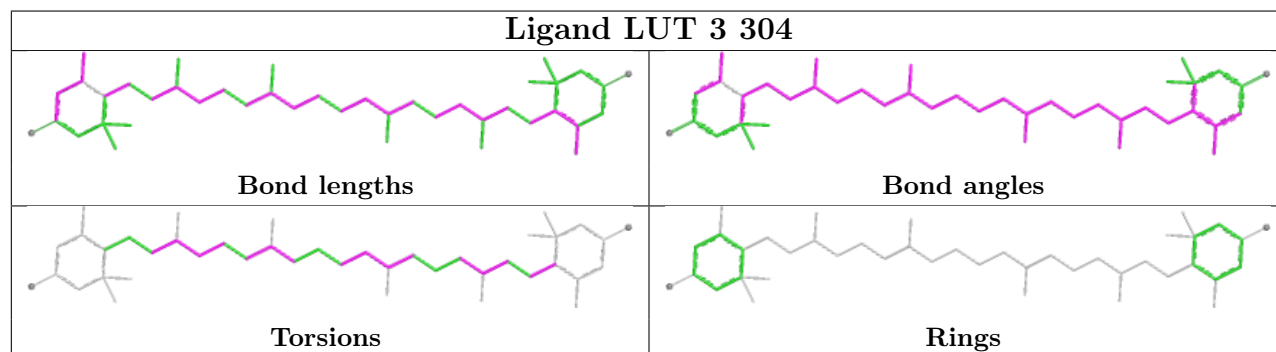


Rings

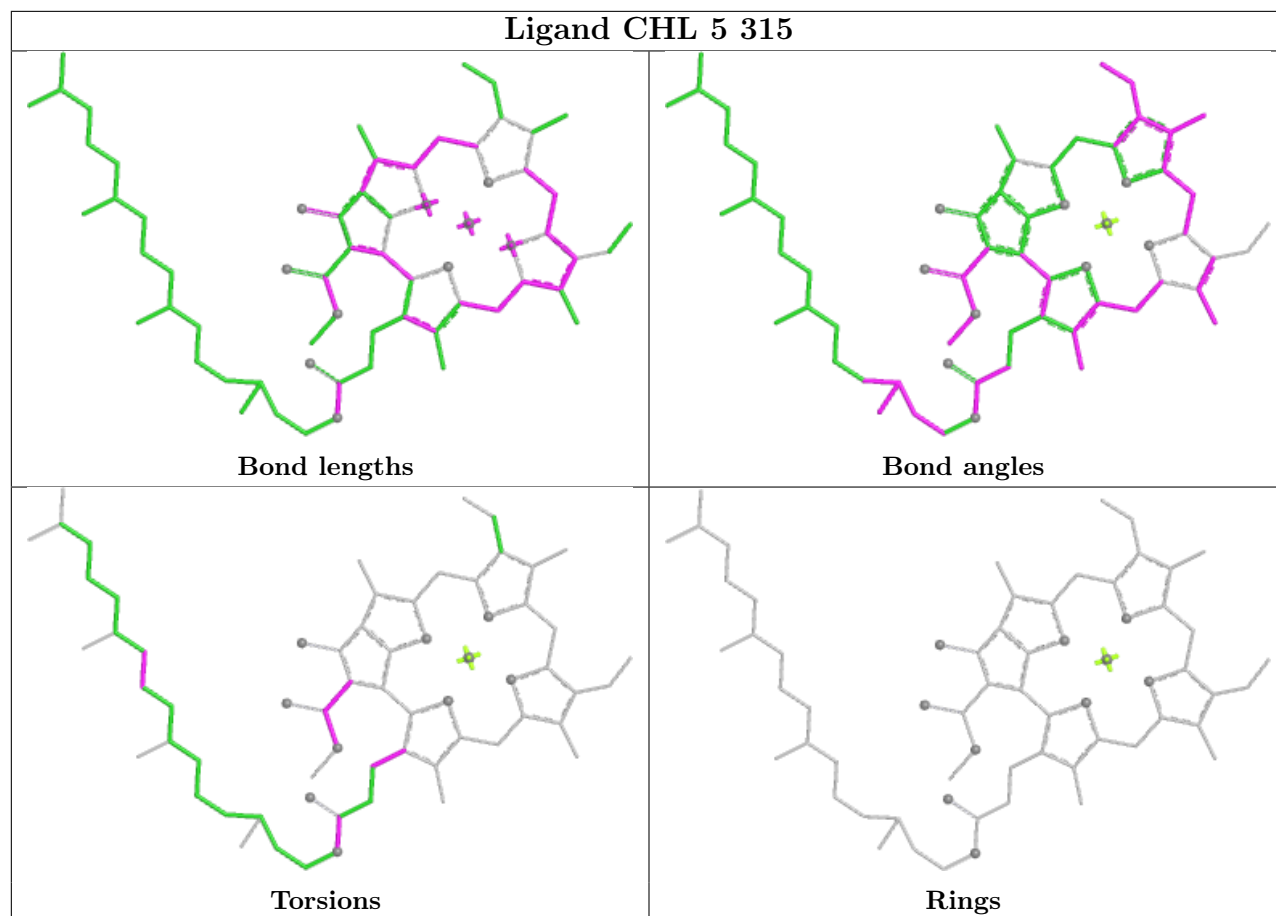
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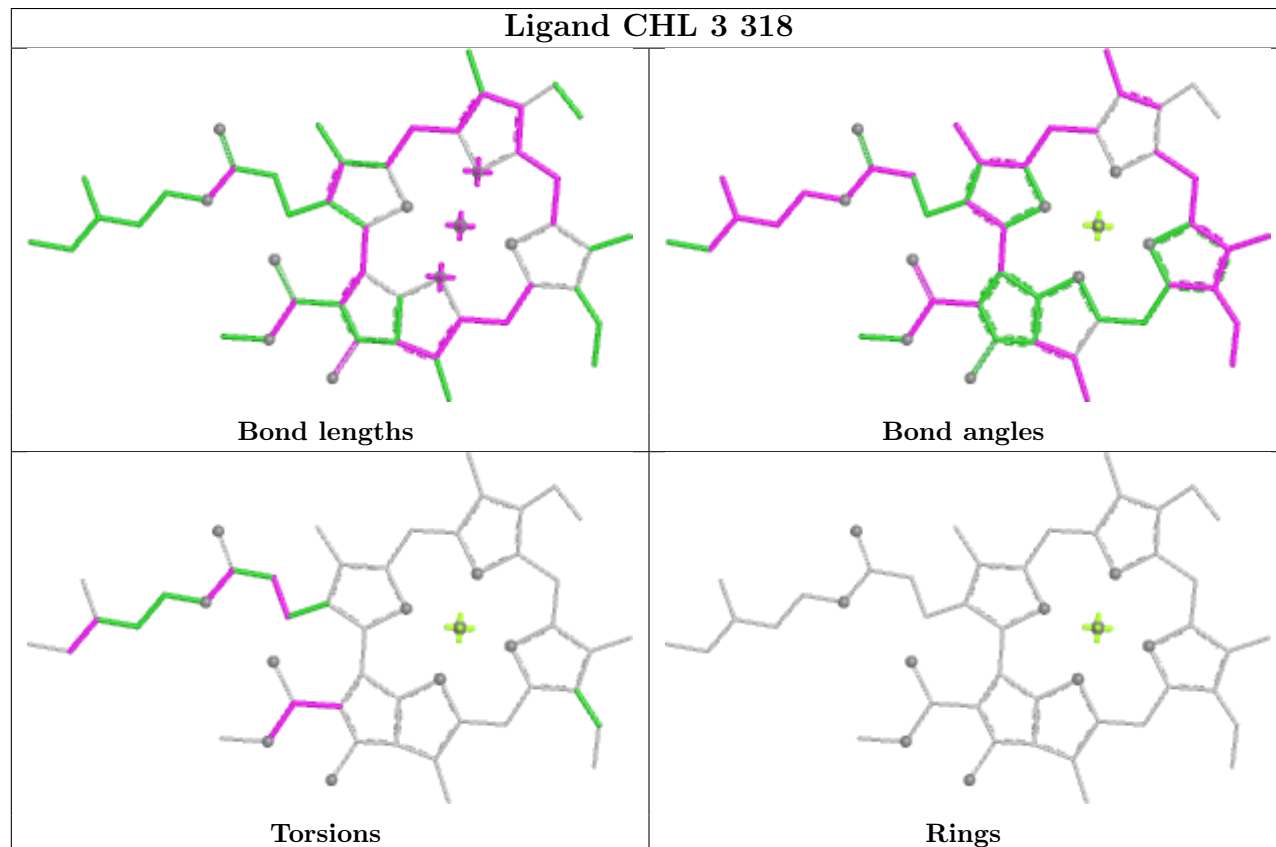
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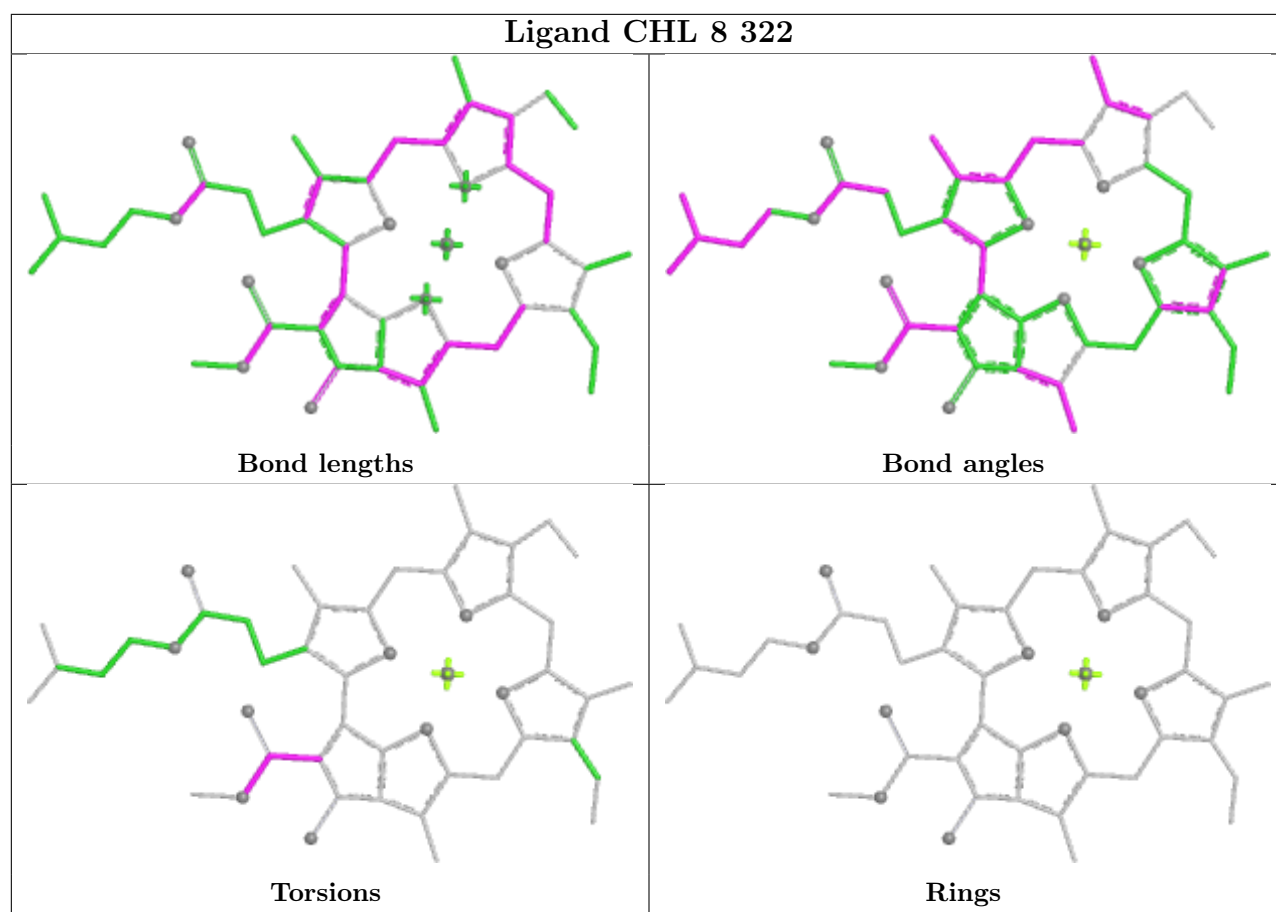


Ligand CHL 5 315

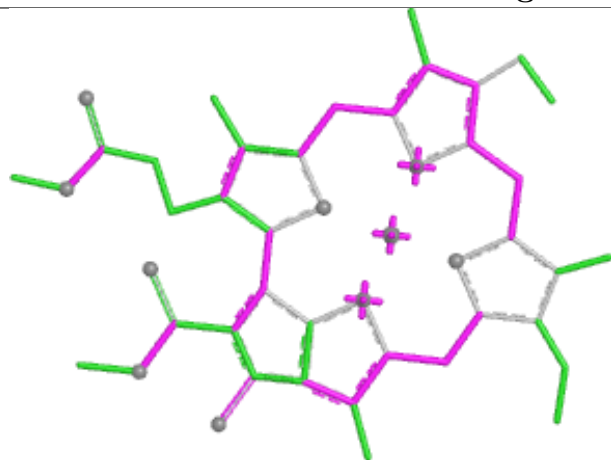


Ligand CHL 3 318

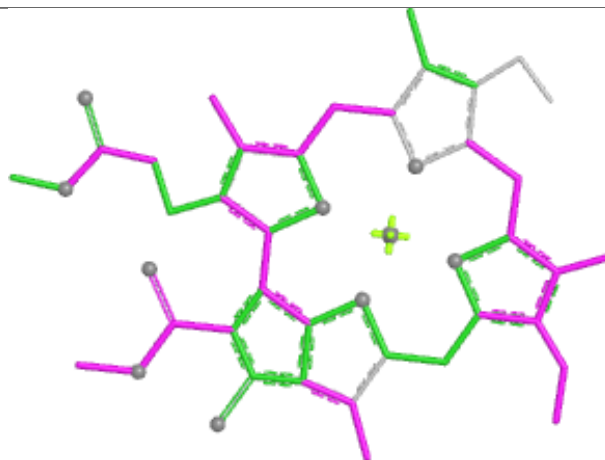




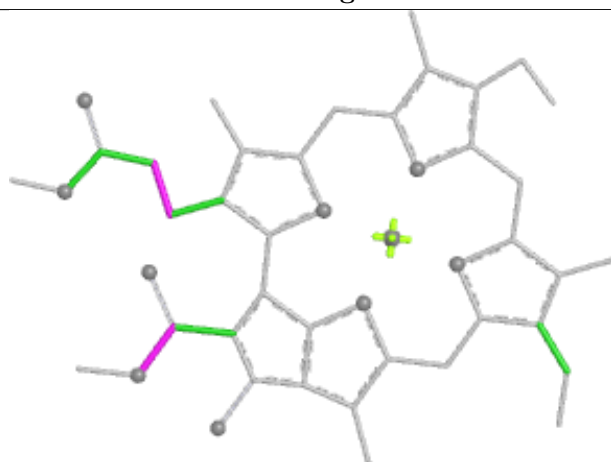
Ligand CHL b 305



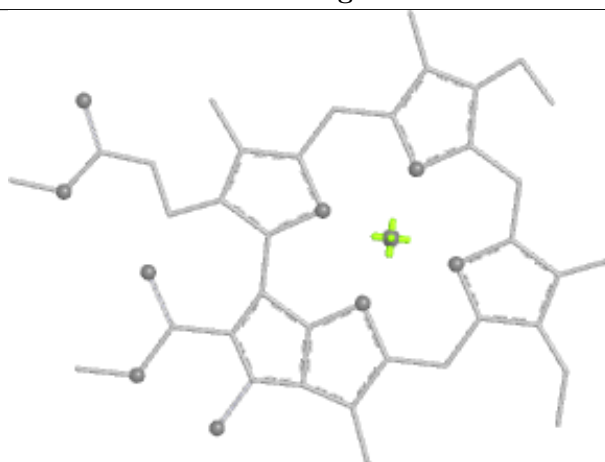
Bond lengths



Bond angles

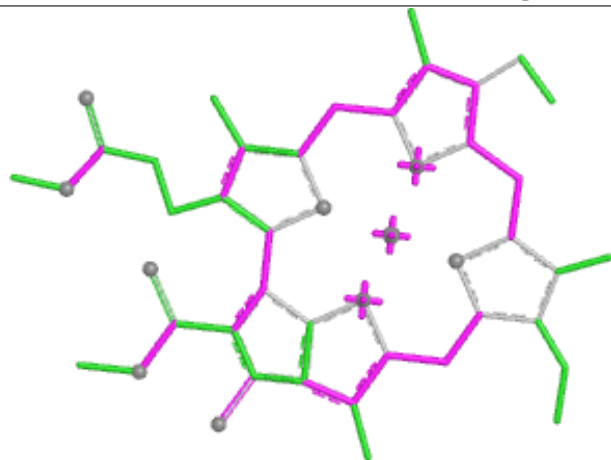


Torsions

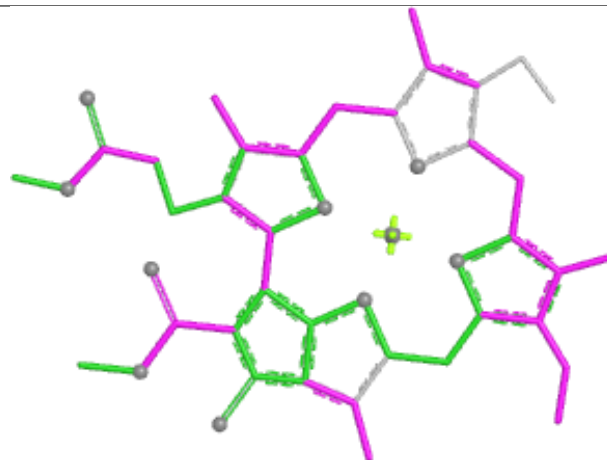


Rings

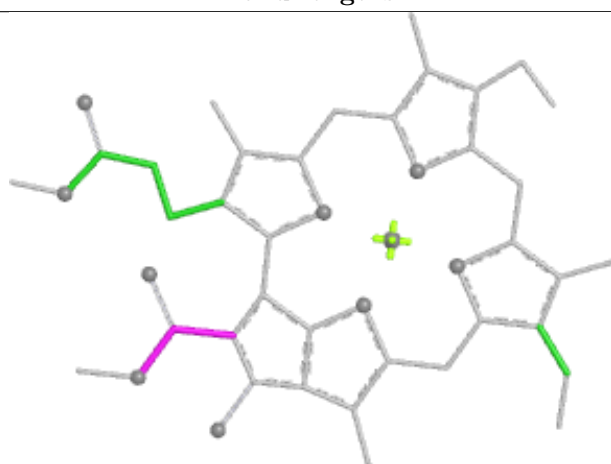
Ligand CHL b 314



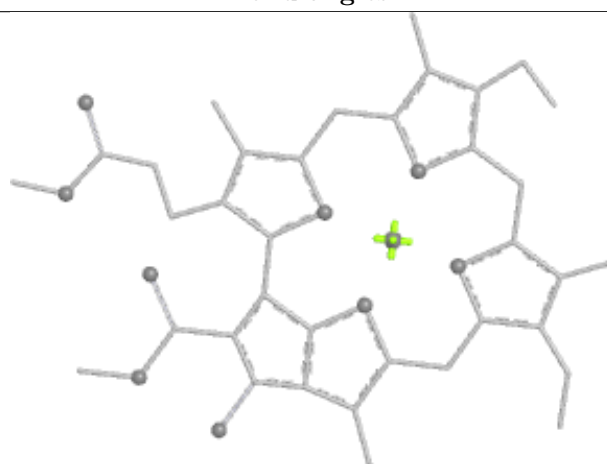
Bond lengths



Bond angles

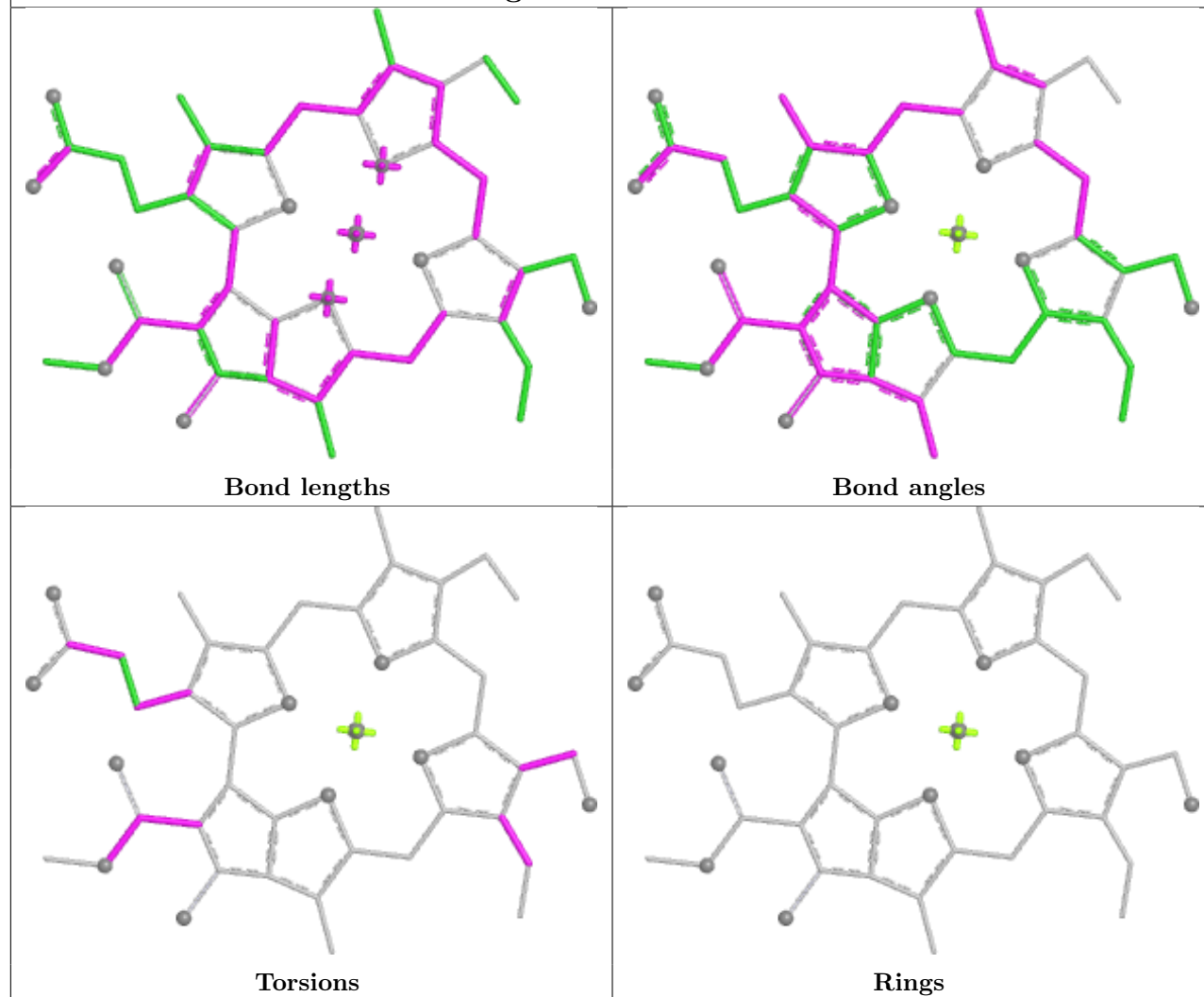


Torsions

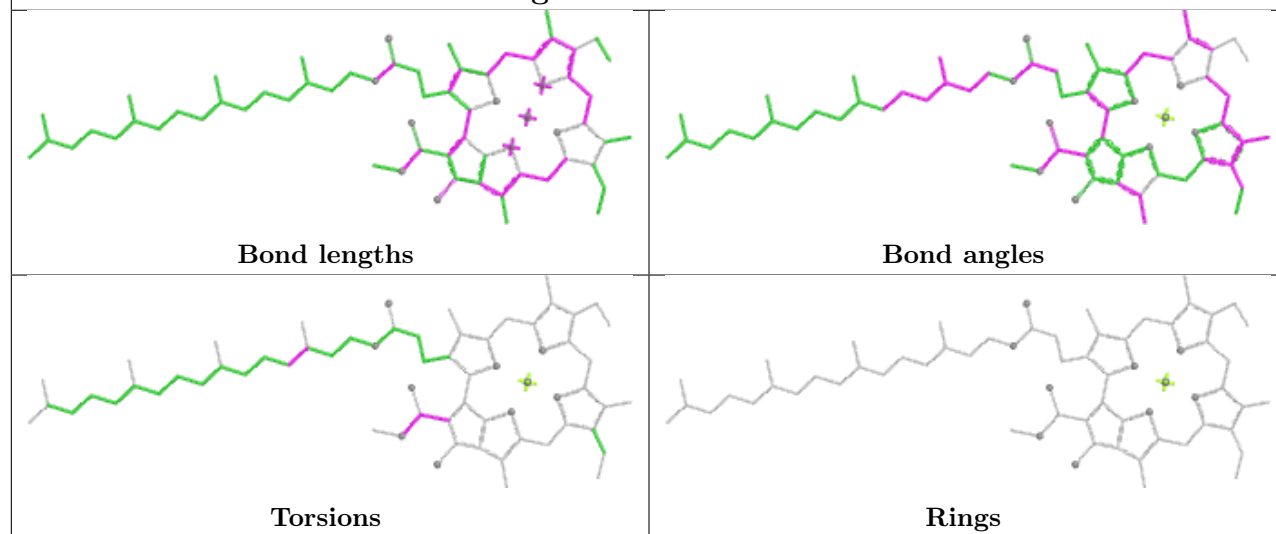


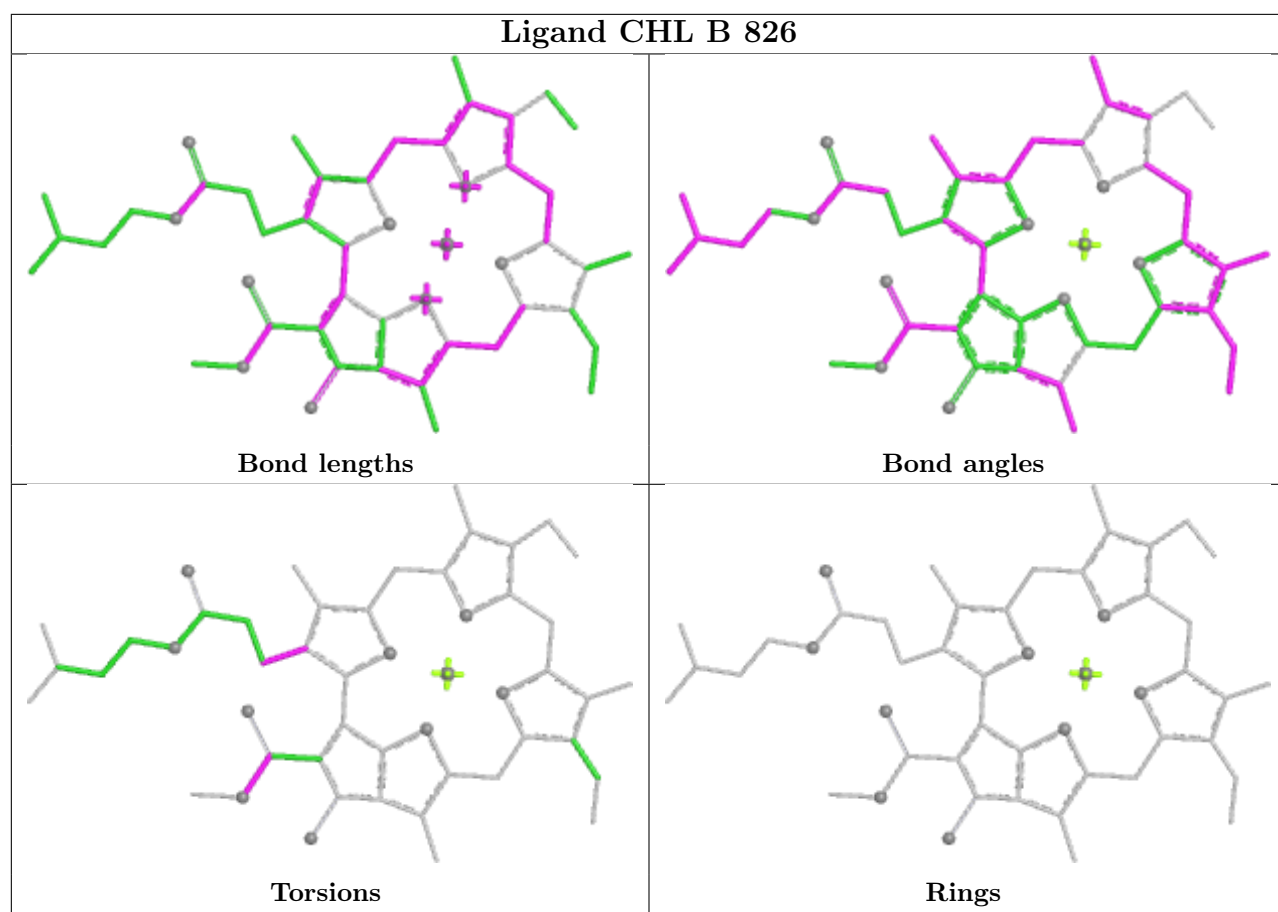
Rings

Ligand CHL 6 316

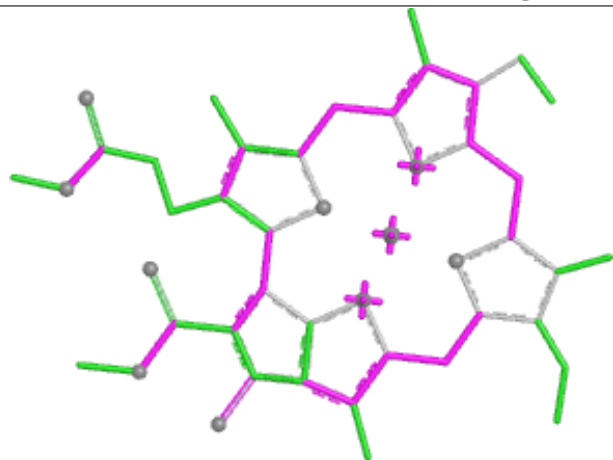


Ligand CHL A 820

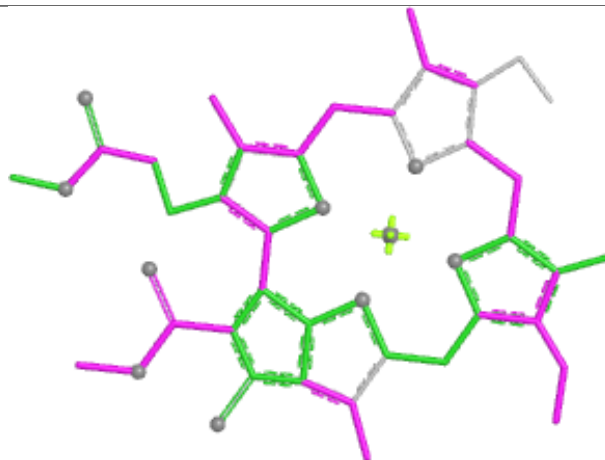




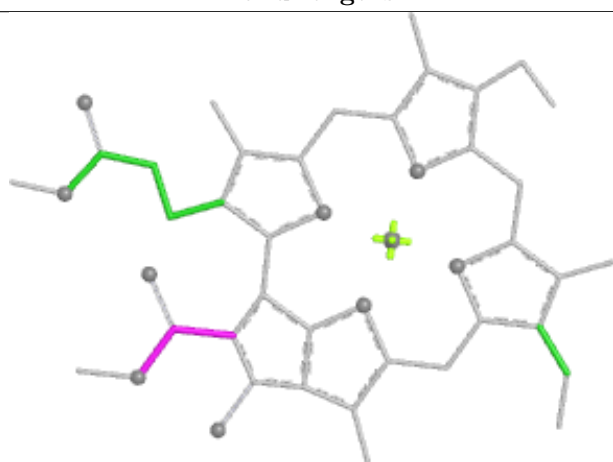
Ligand CHL b 309



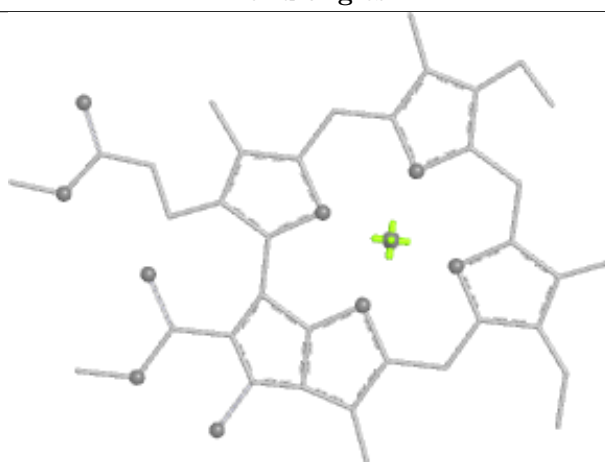
Bond lengths



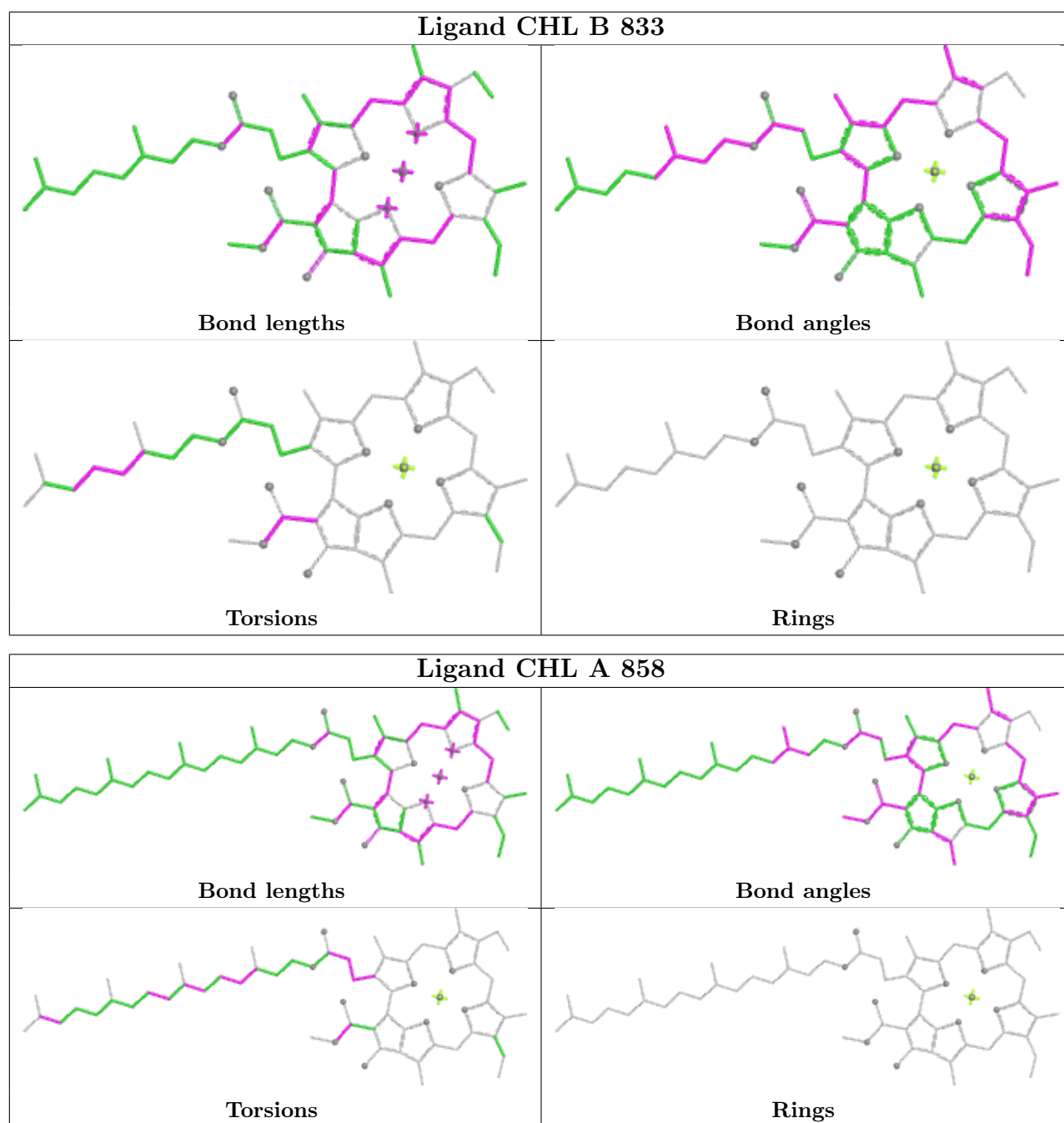
Bond angles



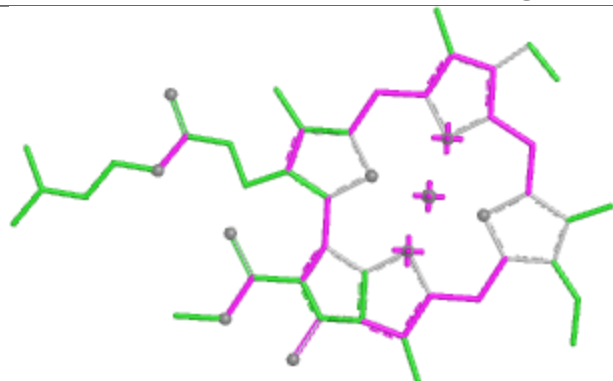
Torsions



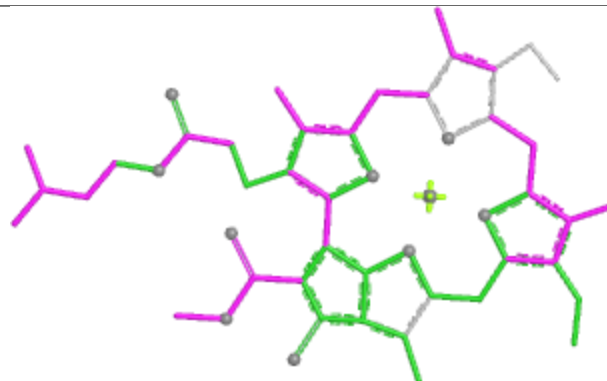
Rings



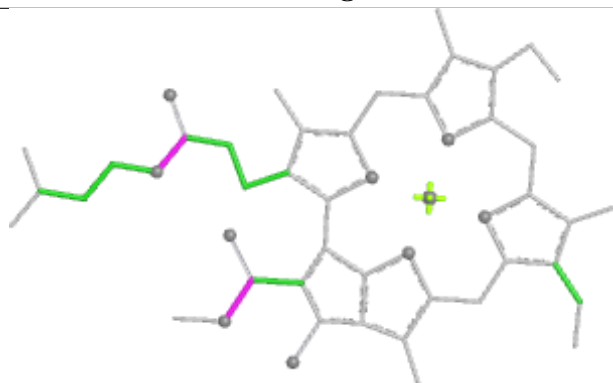
Ligand CHL a 312



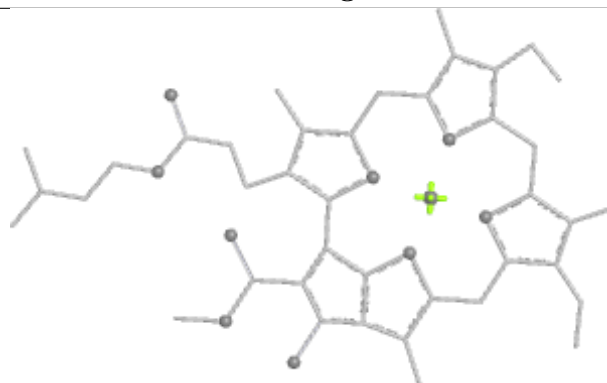
Bond lengths



Bond angles

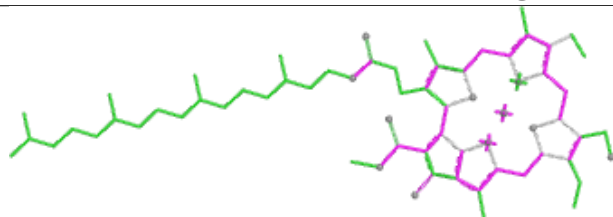


Torsions

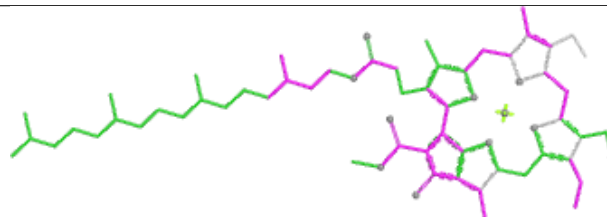


Rings

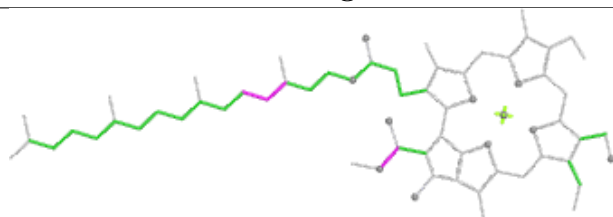
Ligand CHL A 842



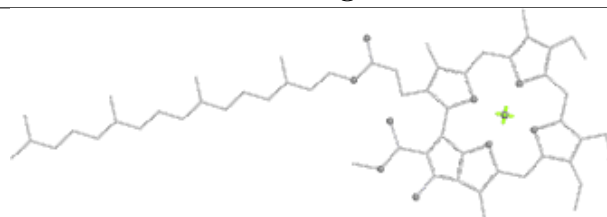
Bond lengths



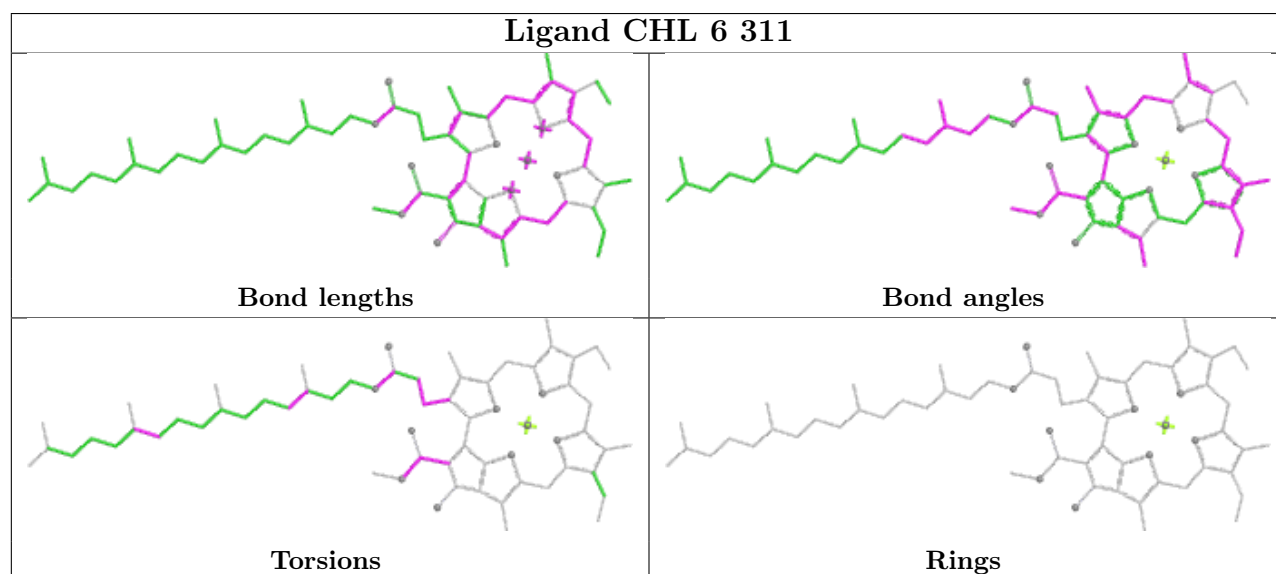
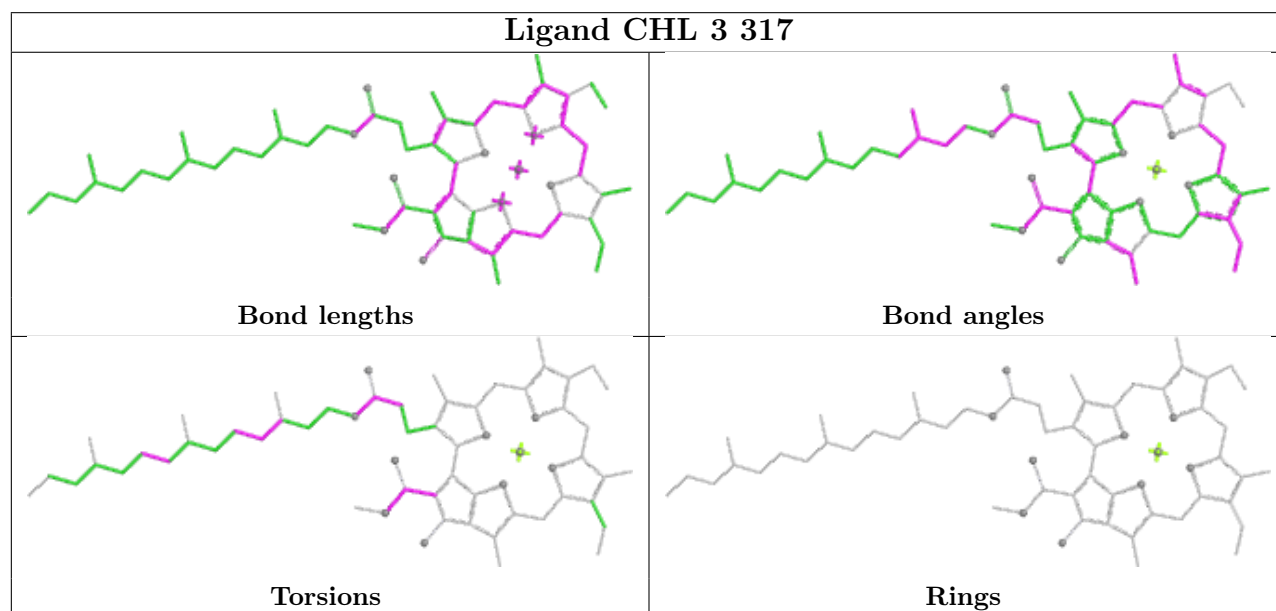
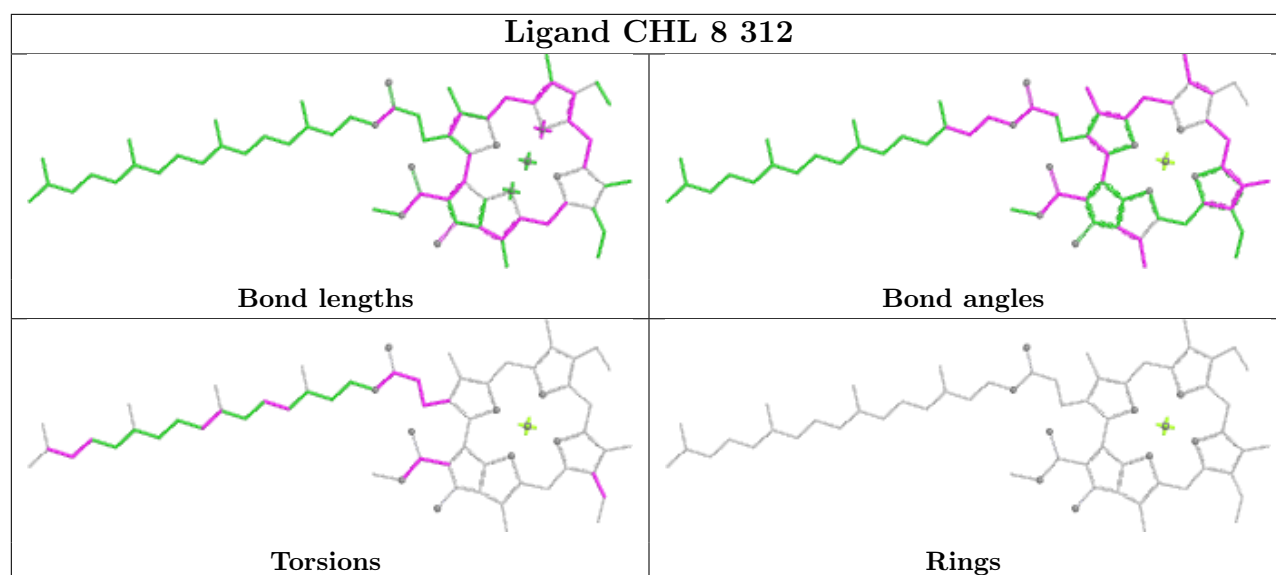
Bond angles



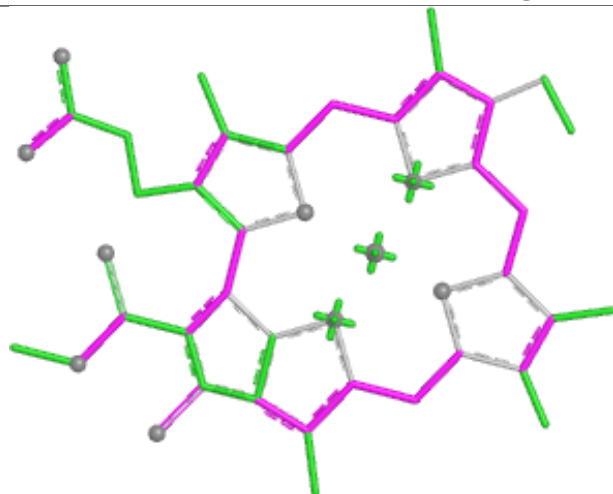
Torsions



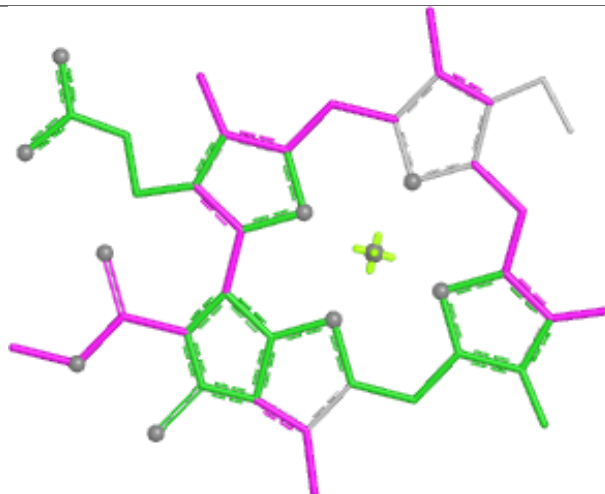
Rings



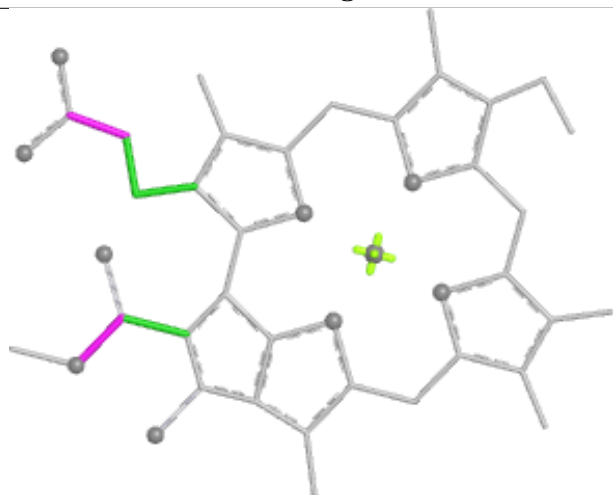
Ligand CHL 7 312



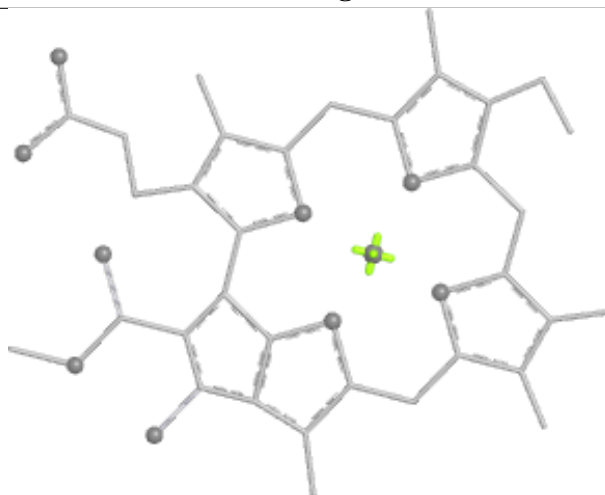
Bond lengths



Bond angles

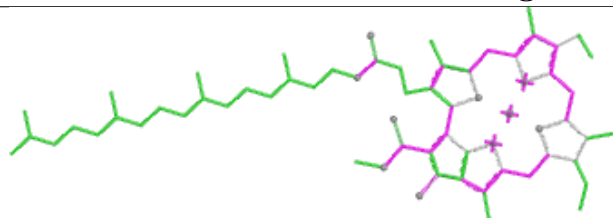


Torsions

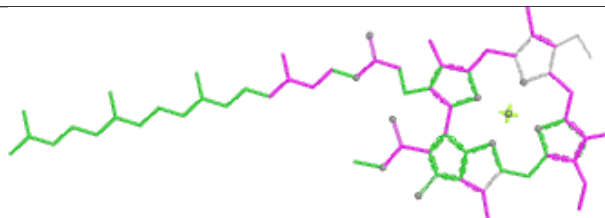


Rings

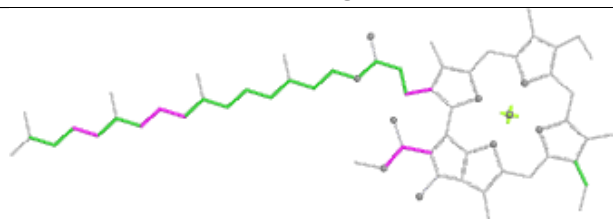
Ligand CHL 3 308



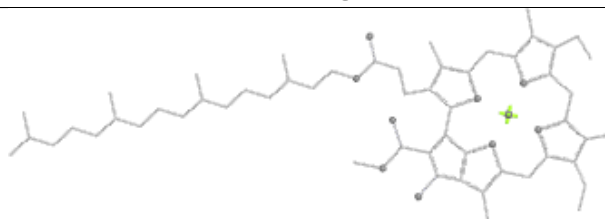
Bond lengths



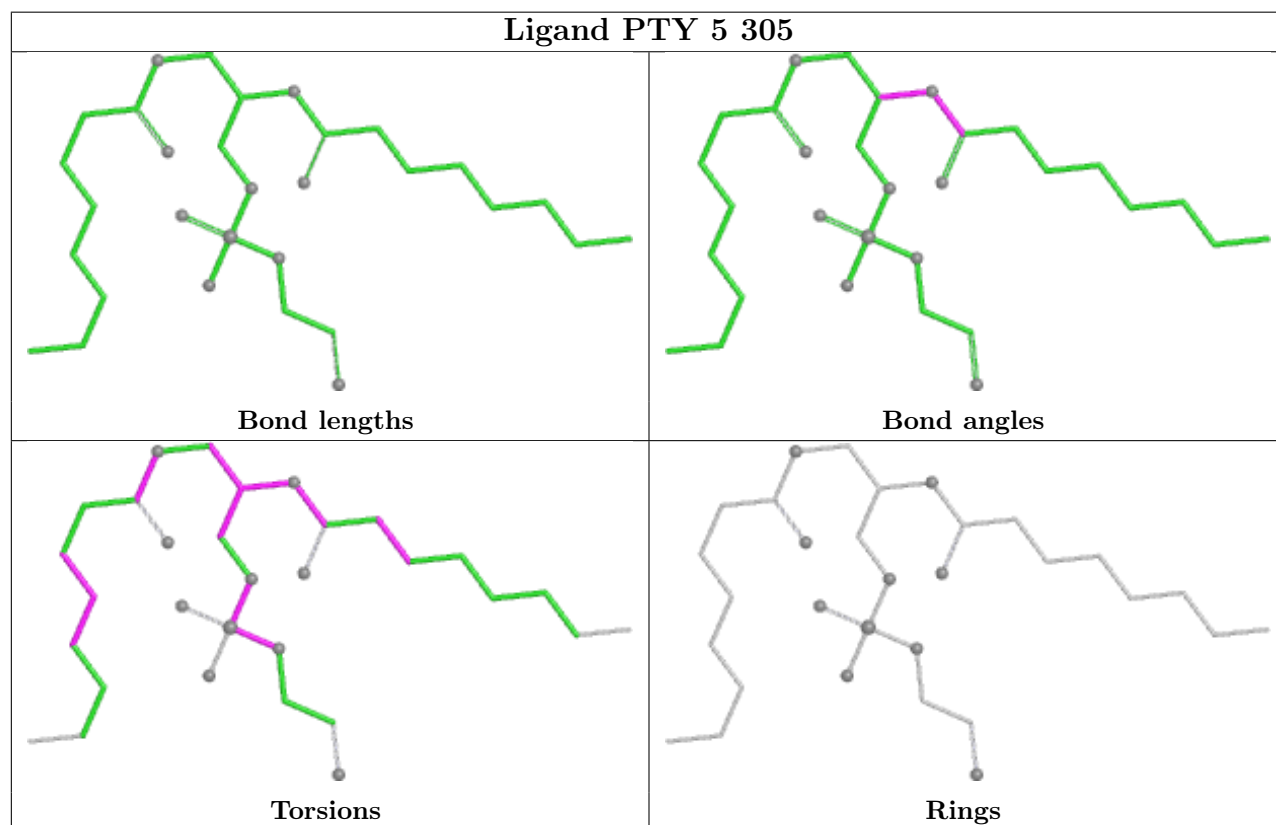
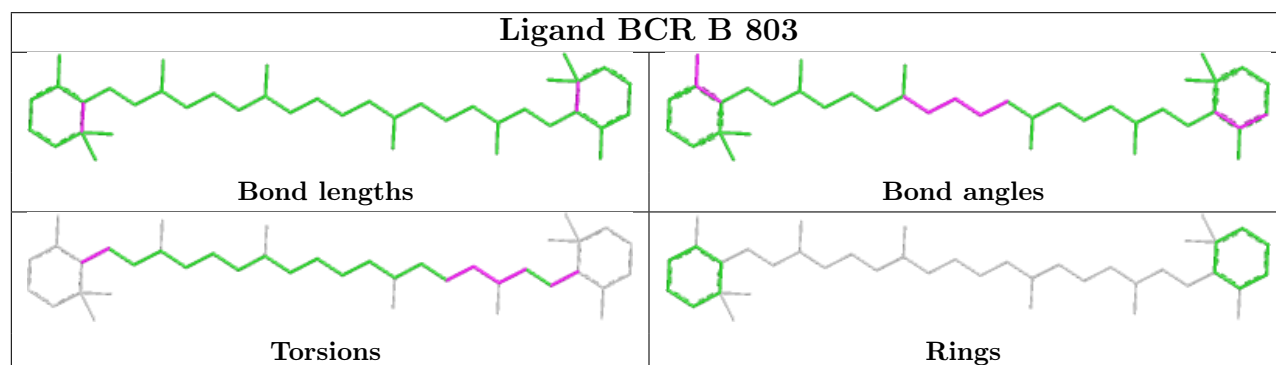
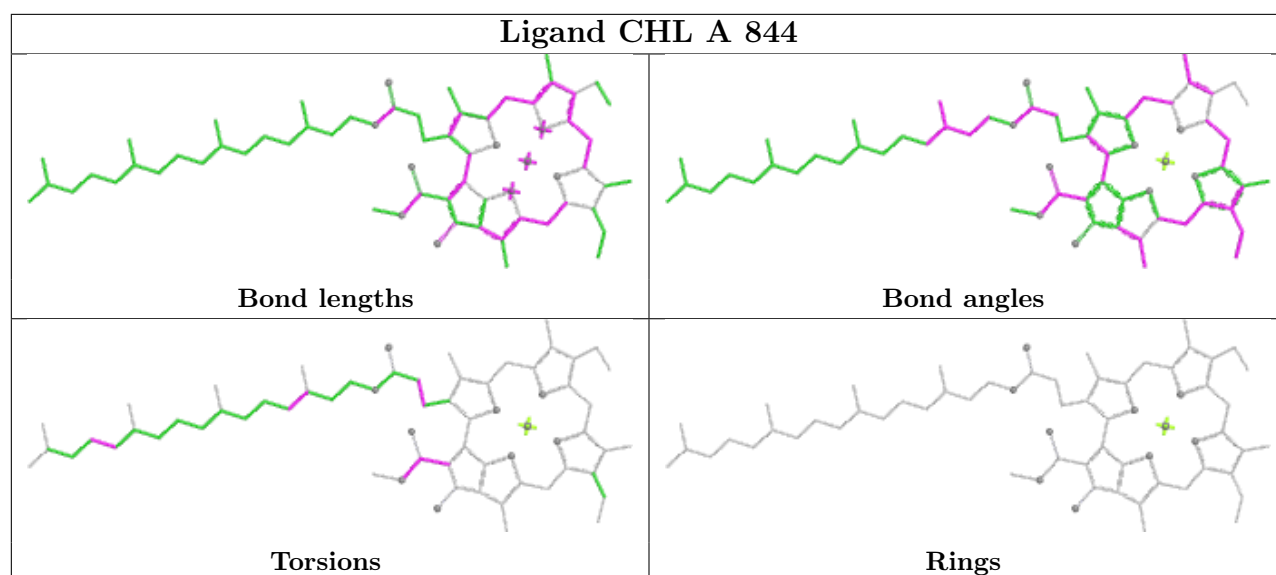
Bond angles



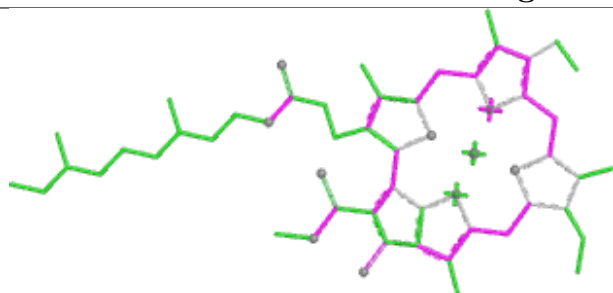
Torsions



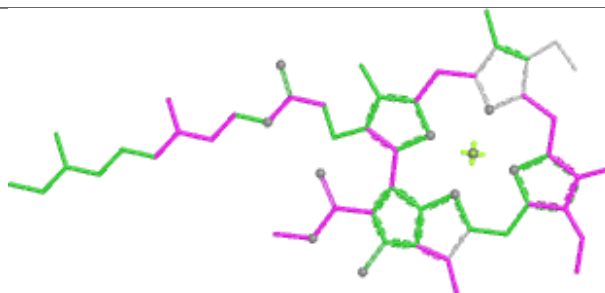
Rings



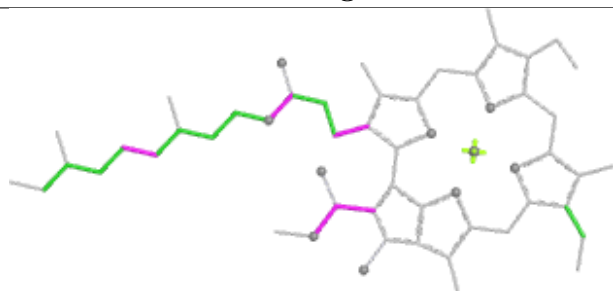
Ligand CHL 5 323



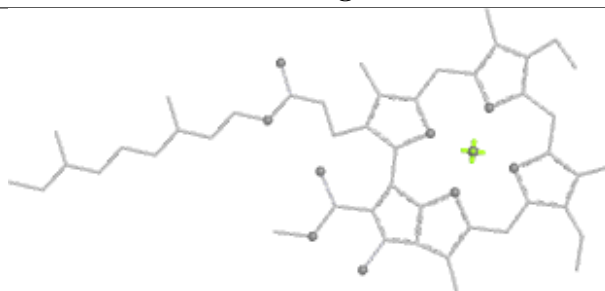
Bond lengths



Bond angles

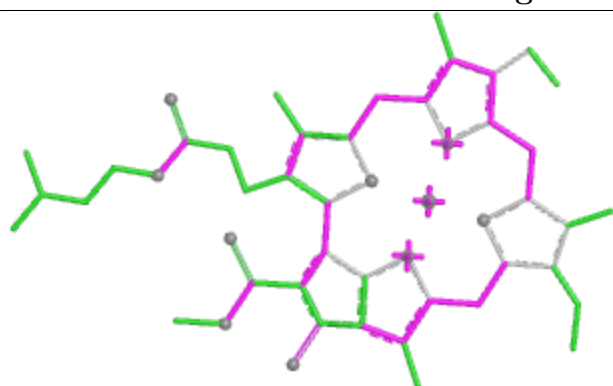


Torsions

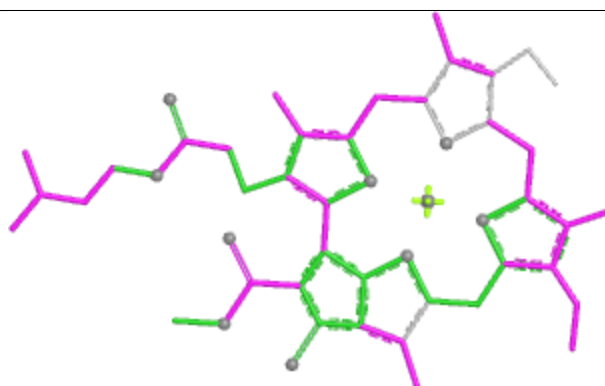


Rings

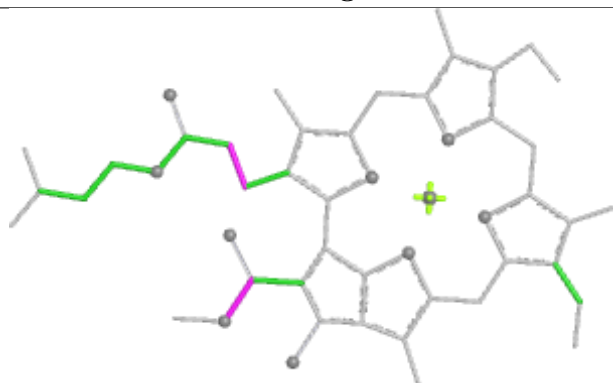
Ligand CHL F 309



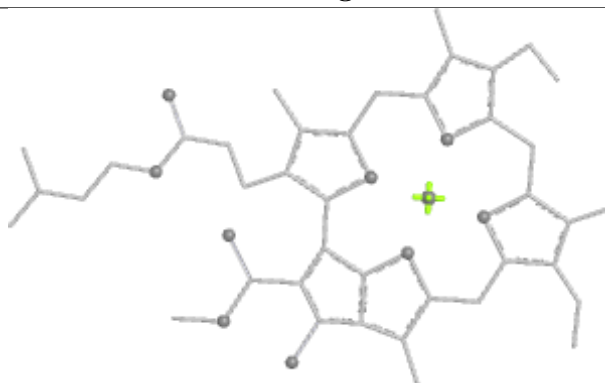
Bond lengths



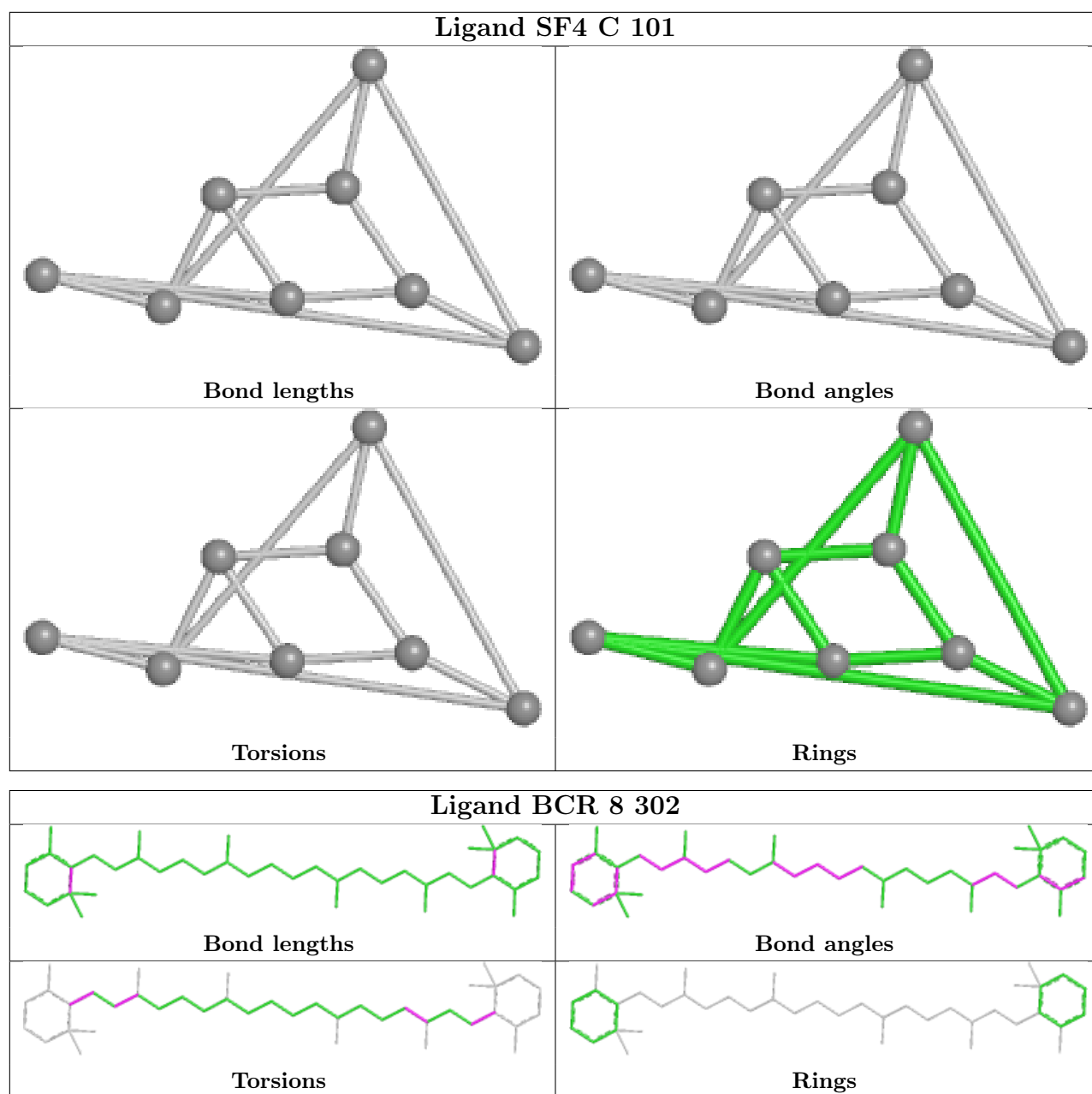
Bond angles

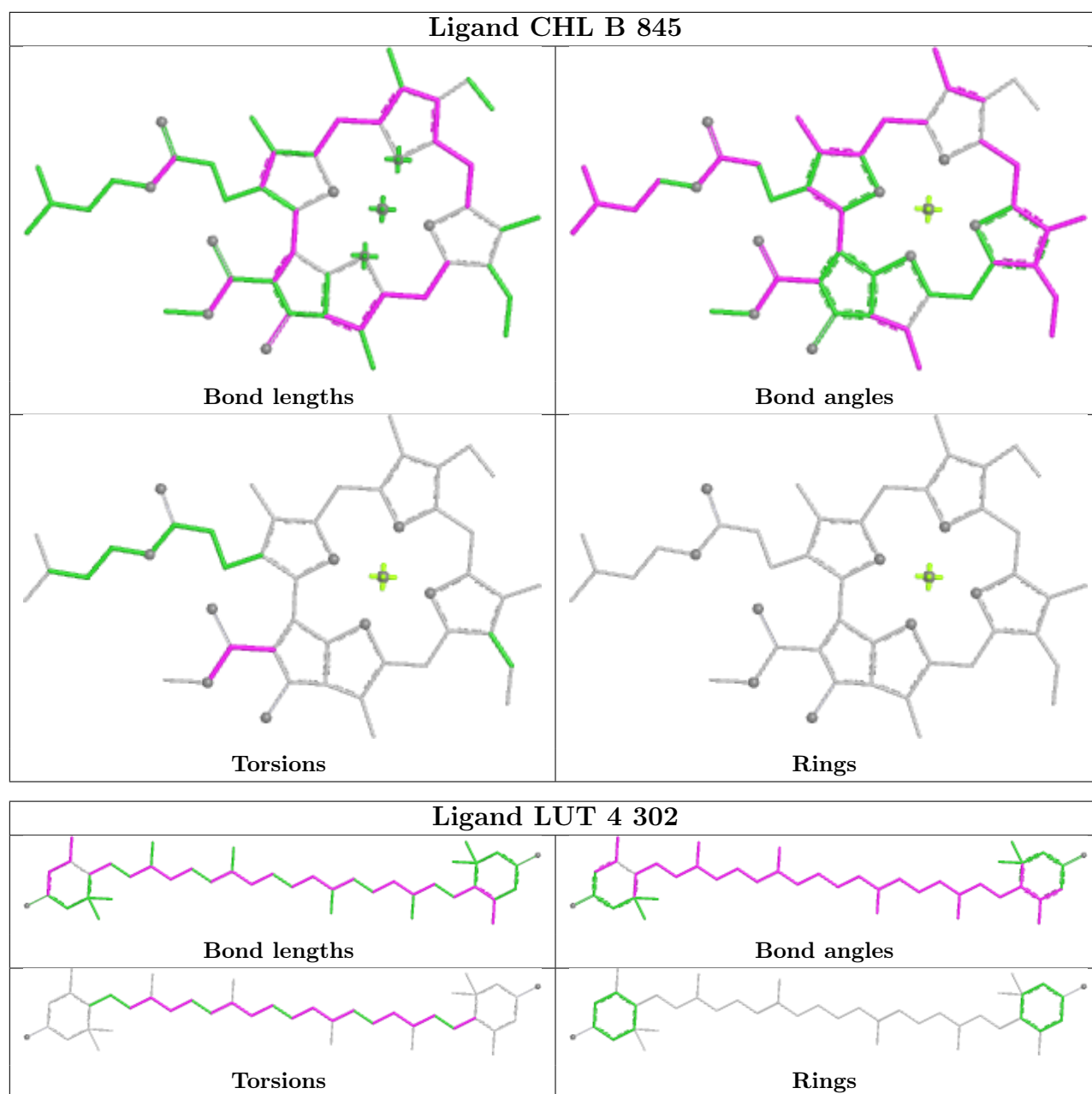


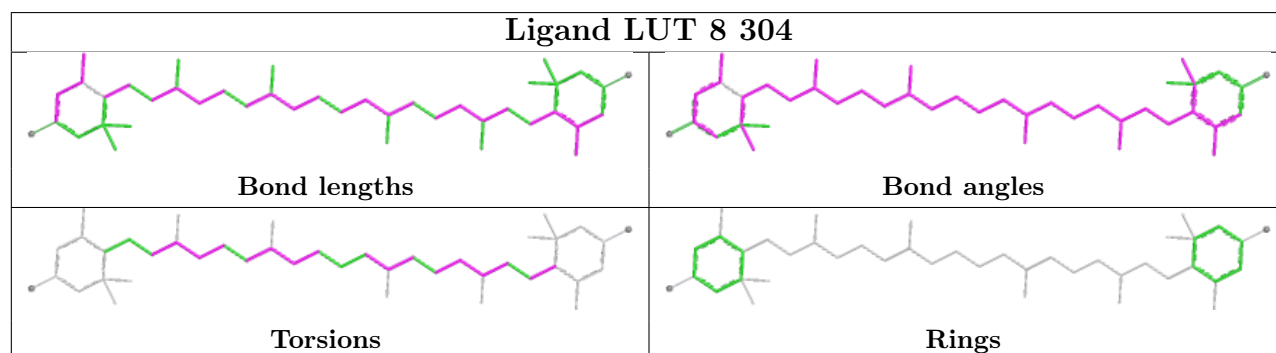
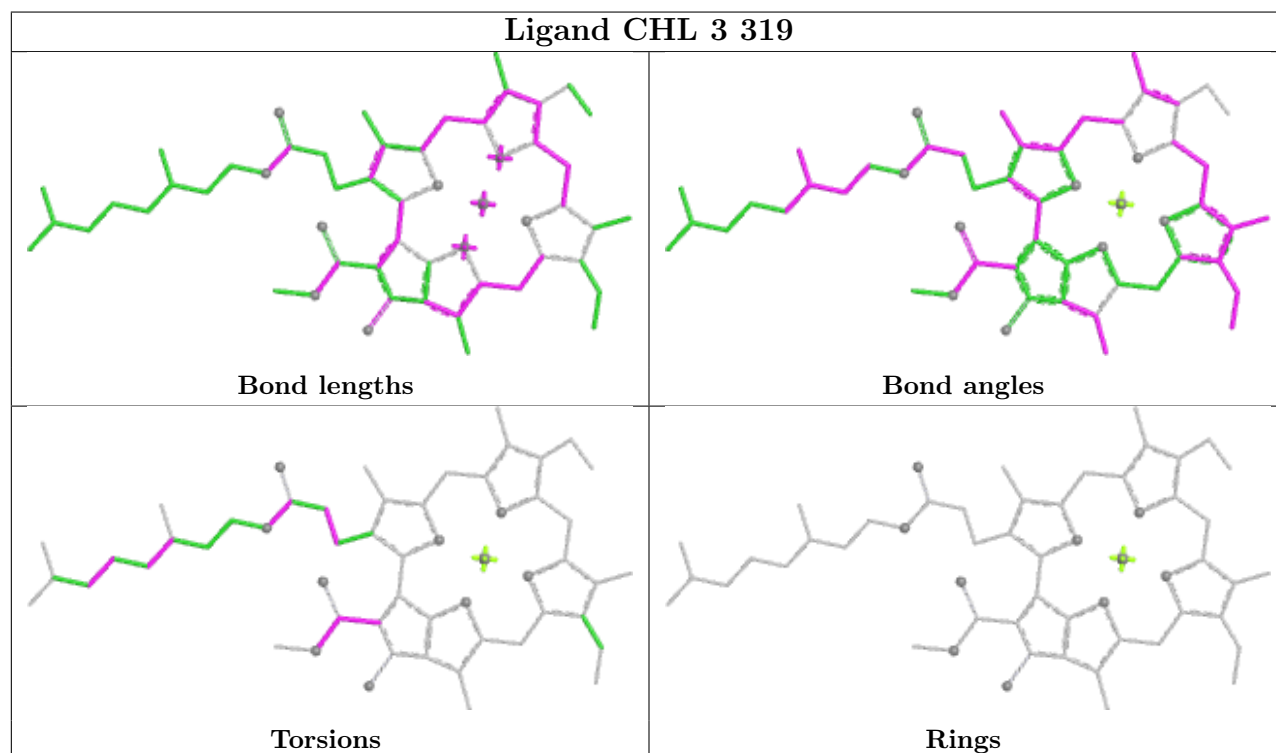
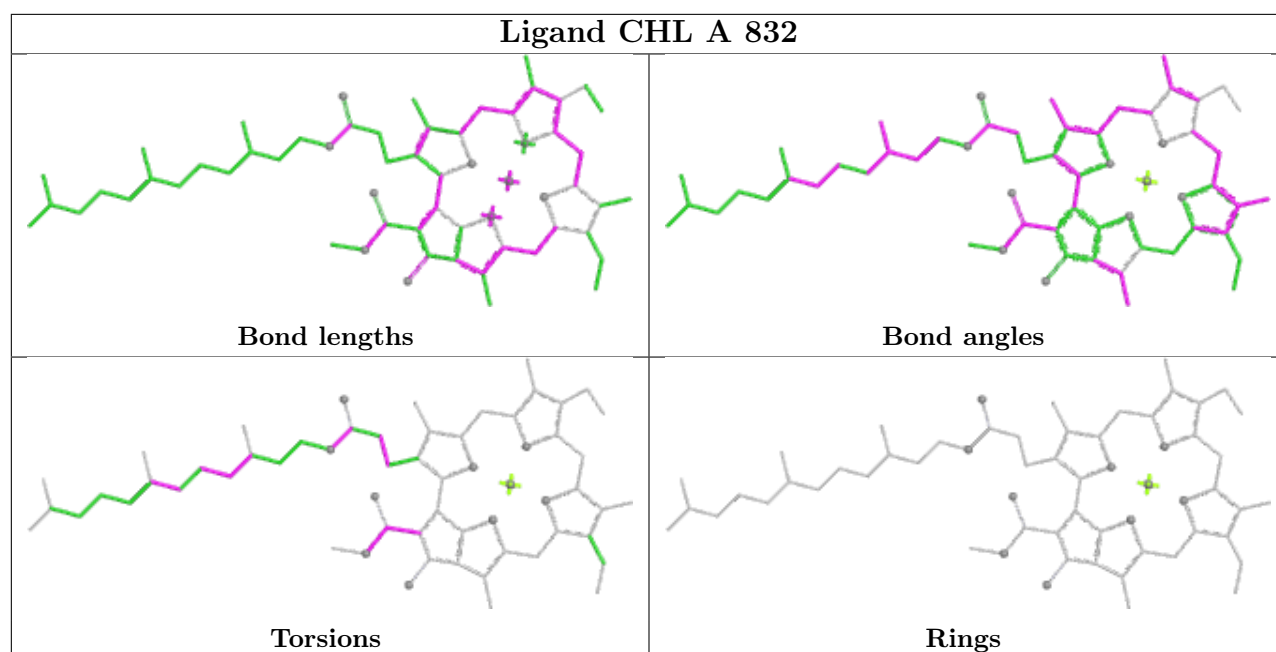
Torsions

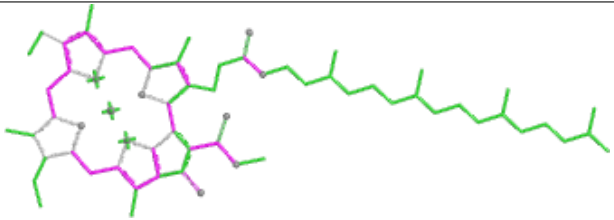
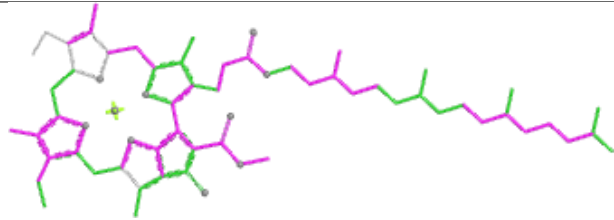
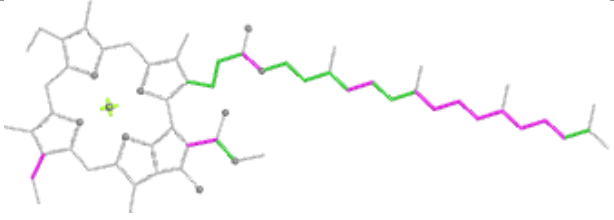
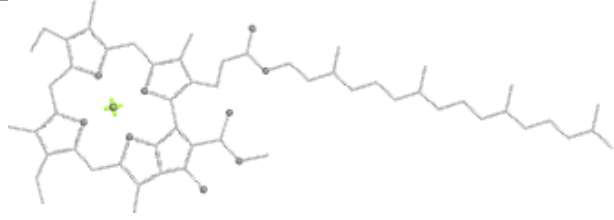
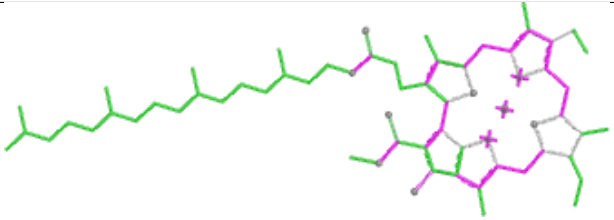
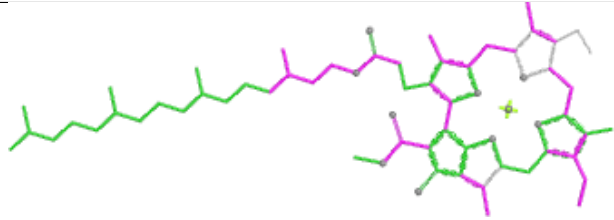
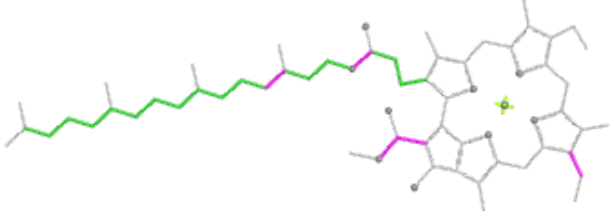
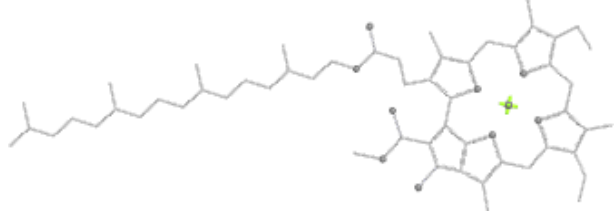
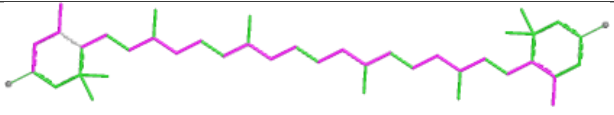
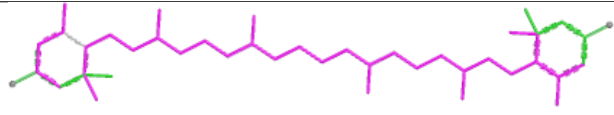
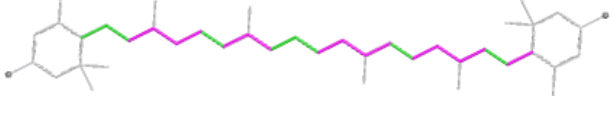
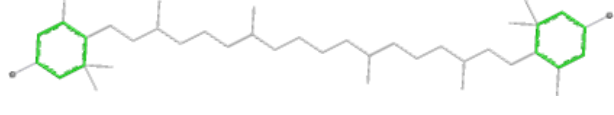


Rings

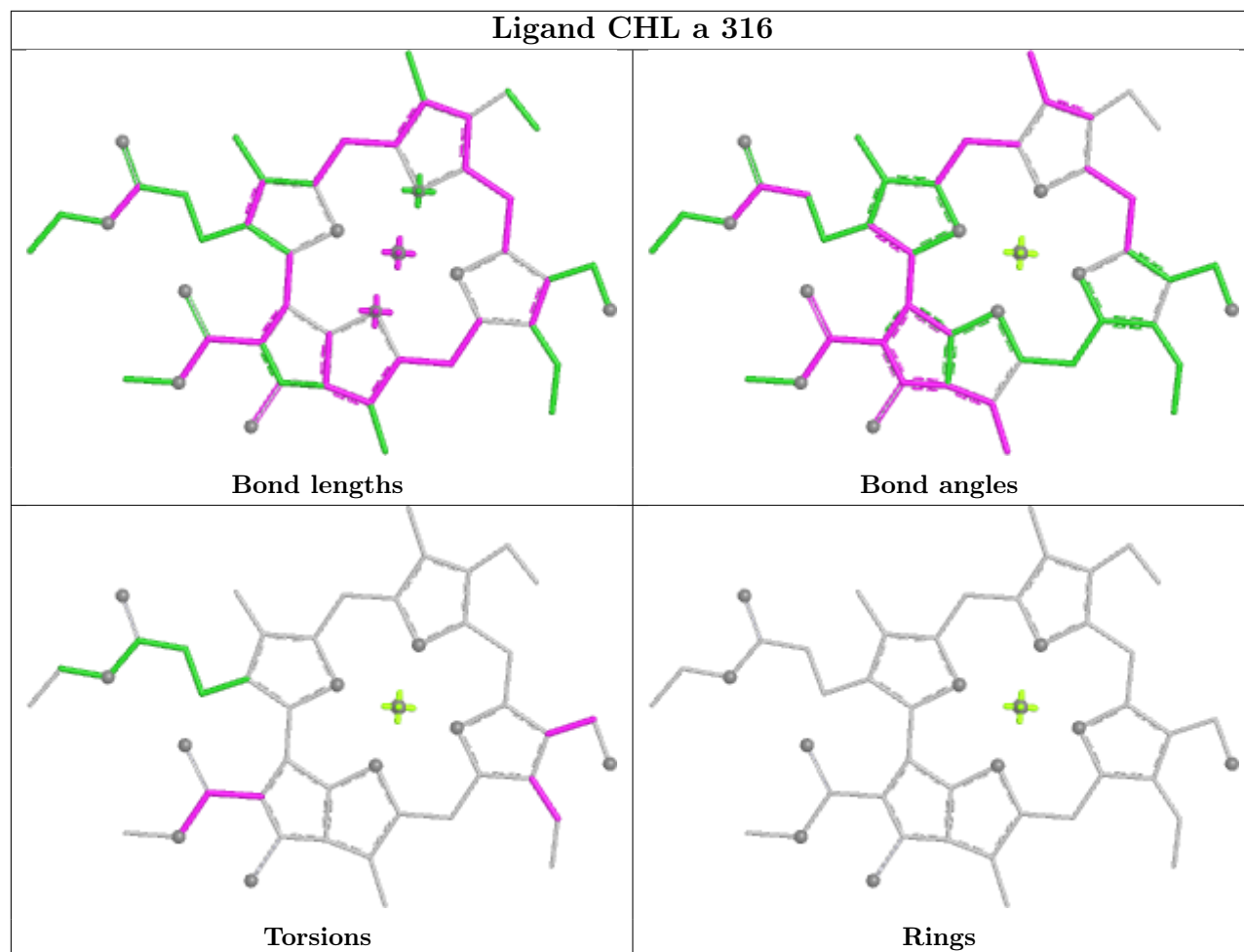




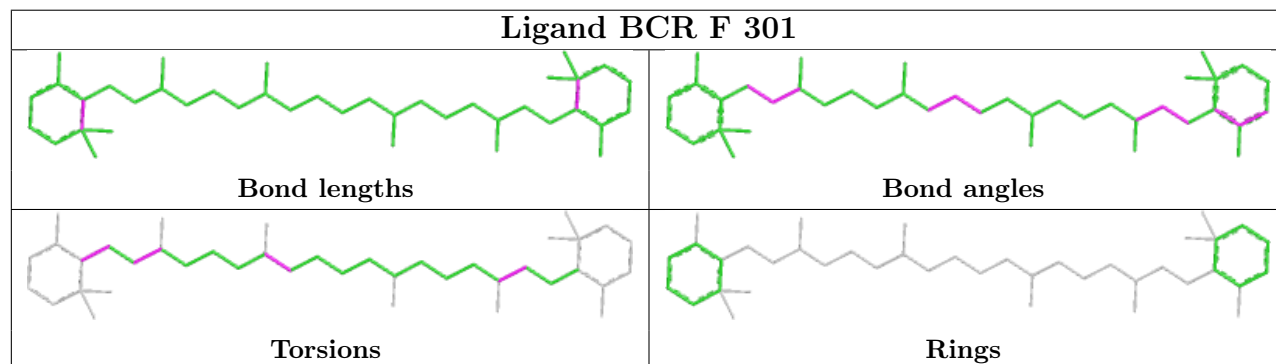


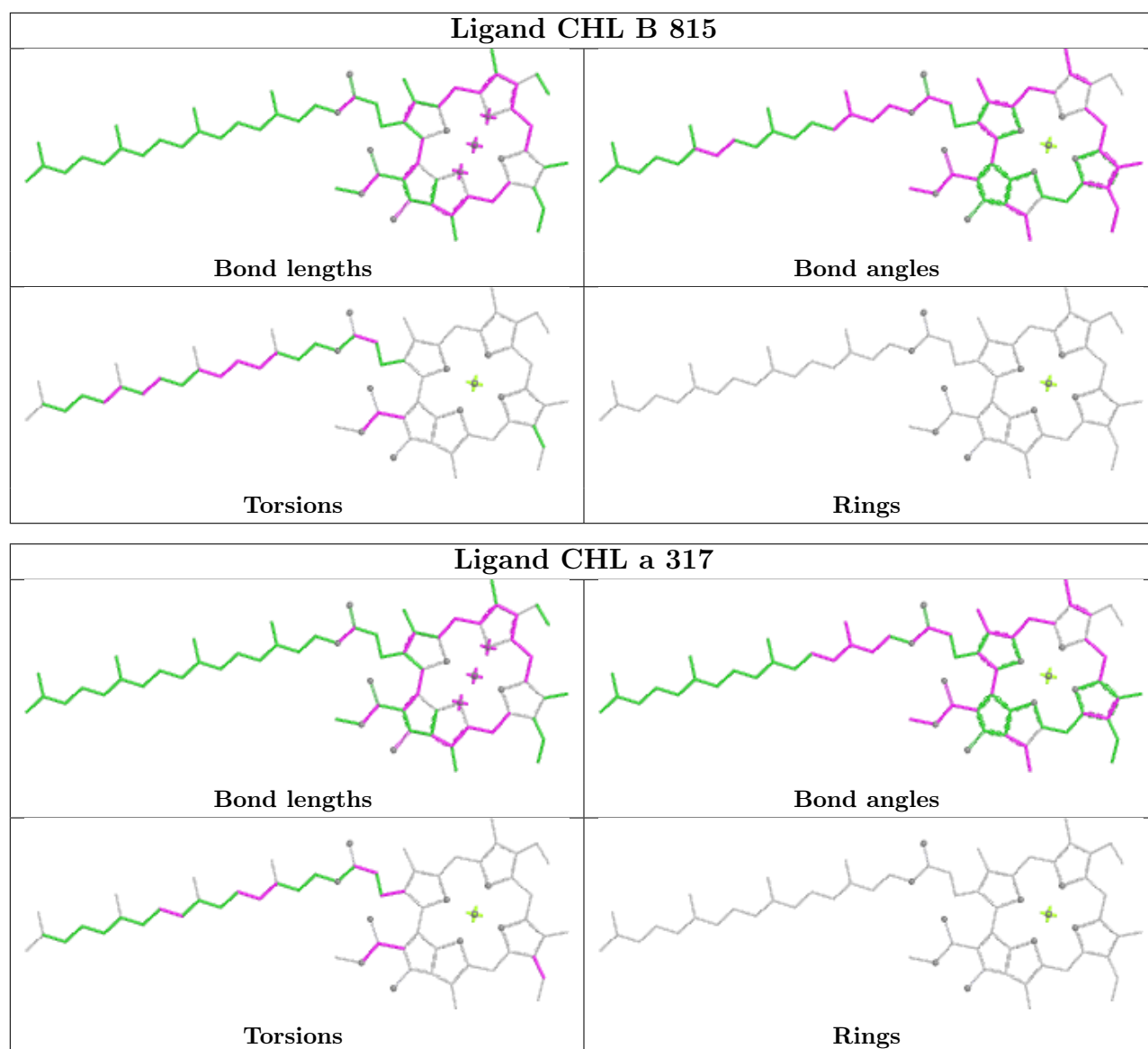
Ligand CHL A 843	
	
Bond lengths	Bond angles
	
Torsions	Rings
Ligand CHL B 819	
	
Bond lengths	Bond angles
	
Torsions	Rings
Ligand LUT b 301	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CHL a 316

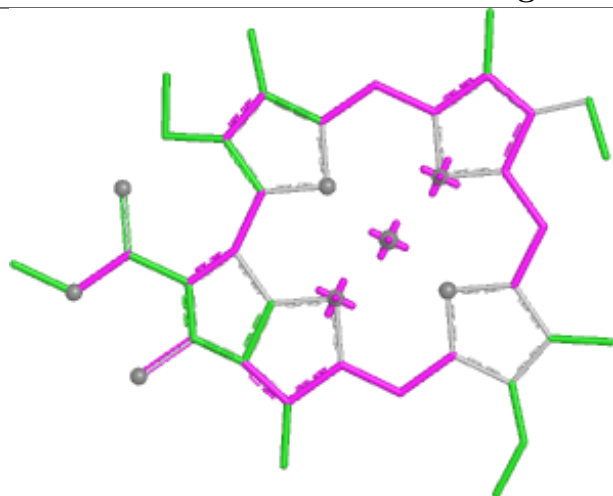


Ligand BCR F 301

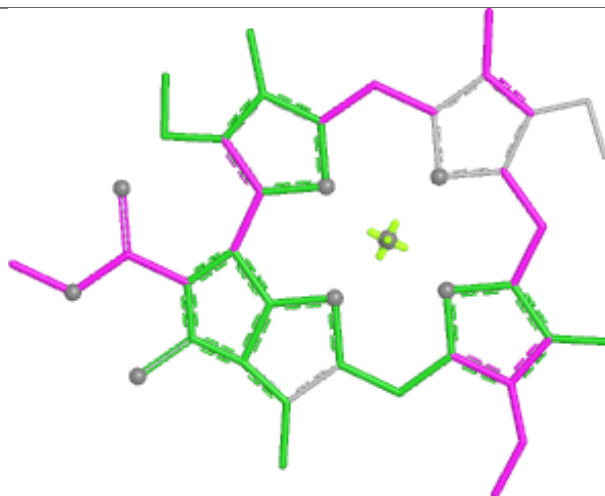




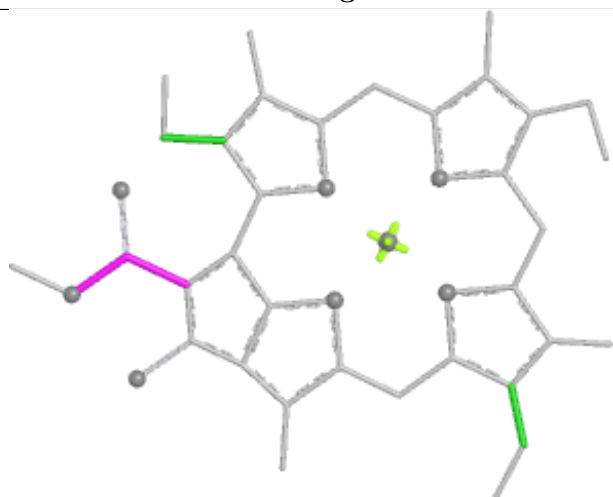
Ligand CHL 4 318



Bond lengths



Bond angles

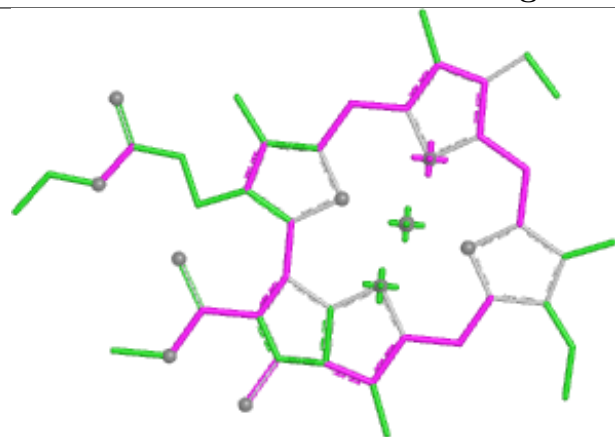


Torsions

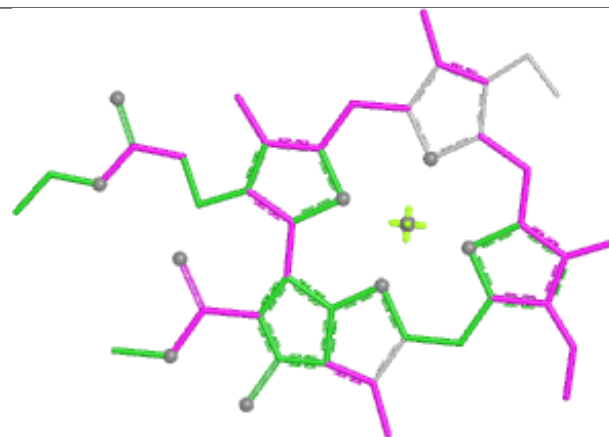


Rings

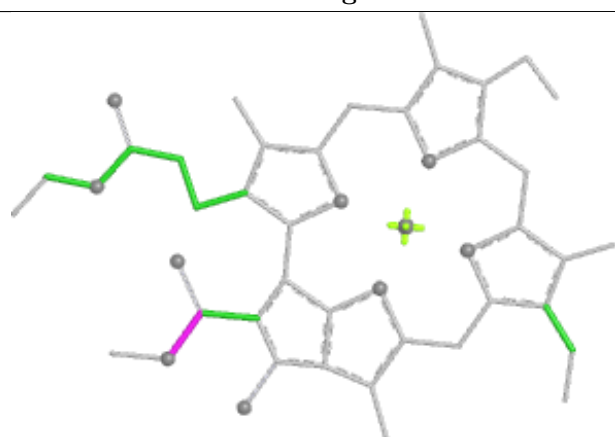
Ligand CHL 4 315



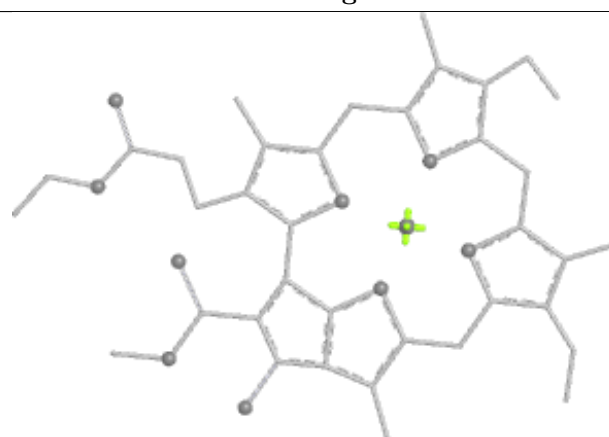
Bond lengths



Bond angles

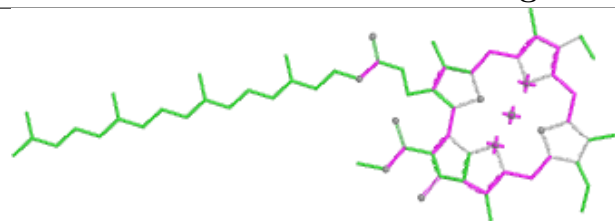


Torsions

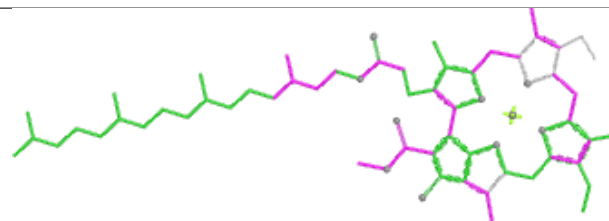


Rings

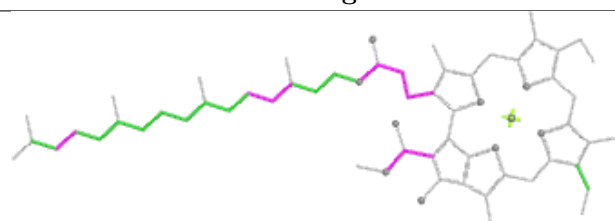
Ligand CHL 8 317



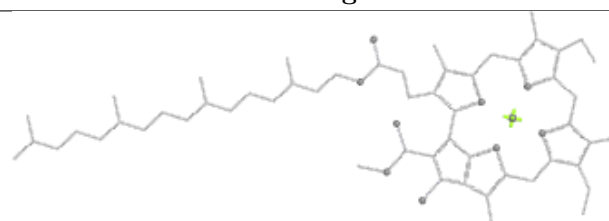
Bond lengths



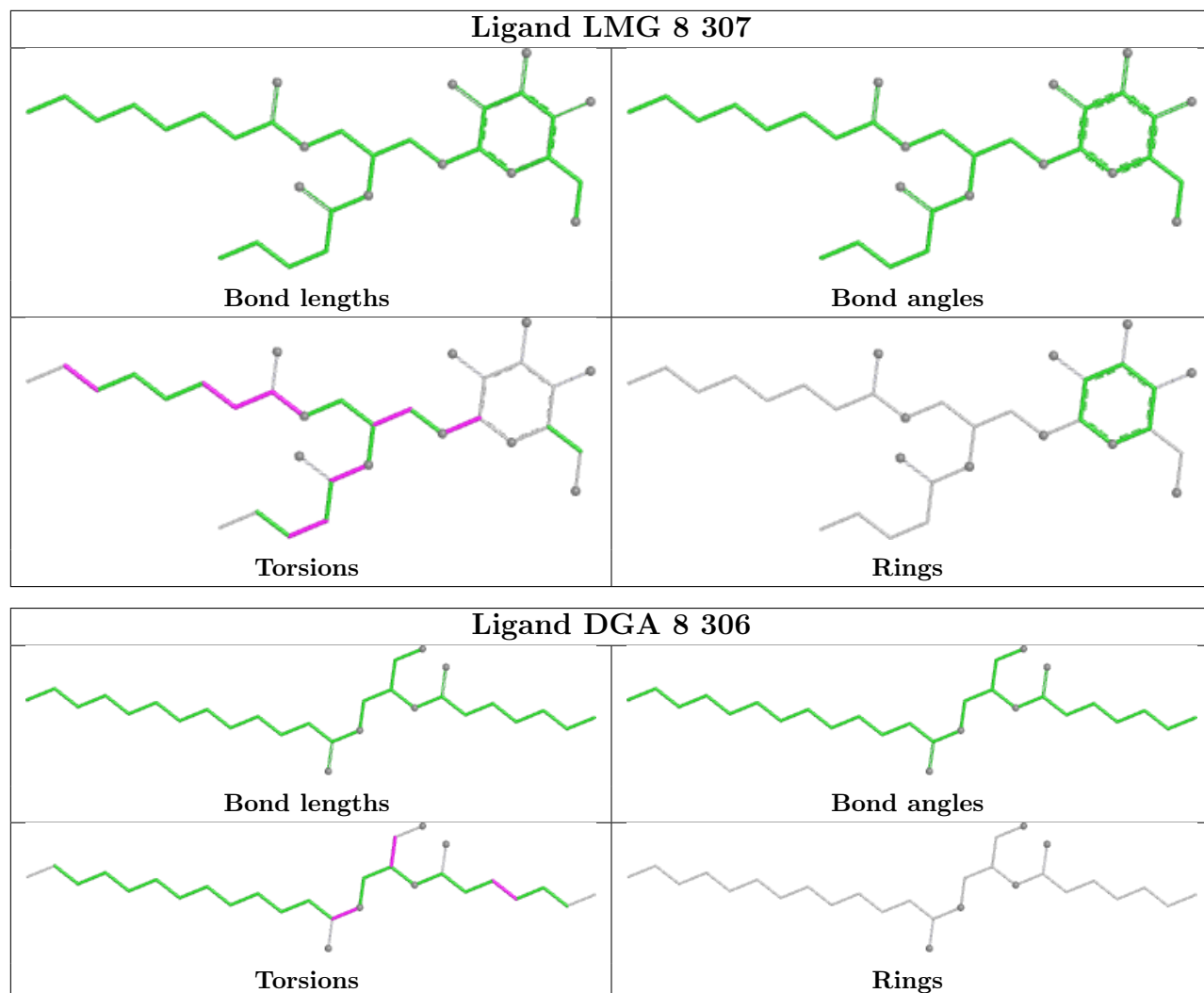
Bond angles



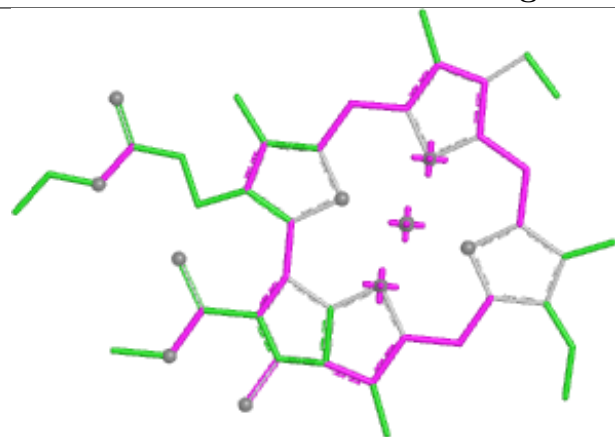
Torsions



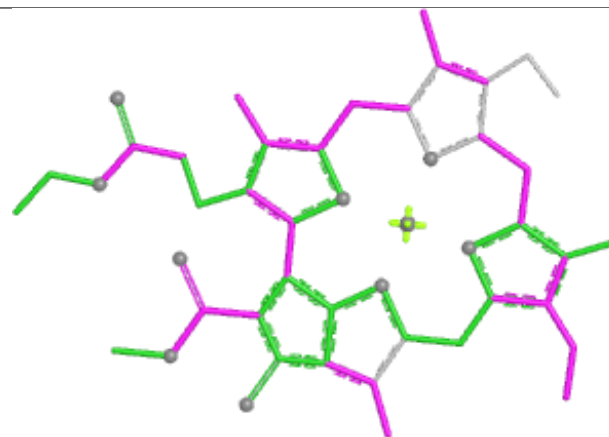
Rings



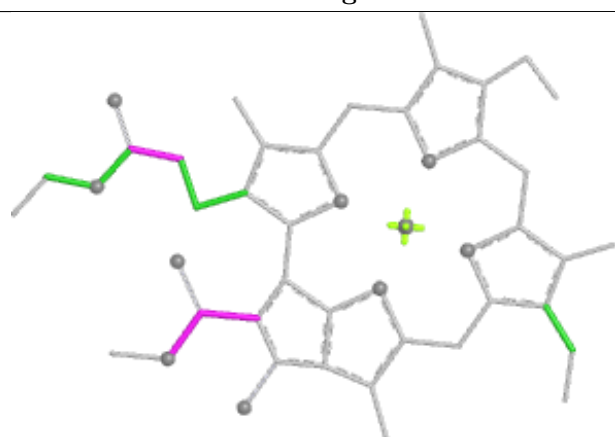
Ligand CHL 6 309



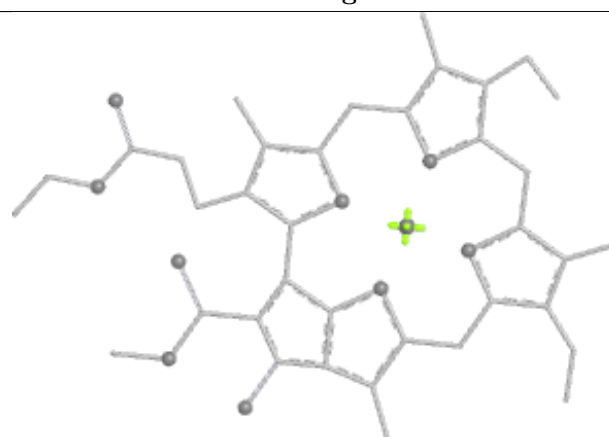
Bond lengths



Bond angles

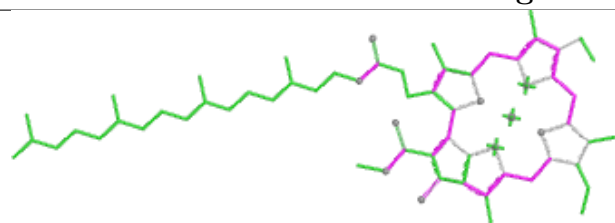


Torsions

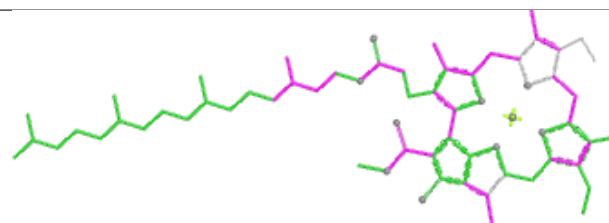


Rings

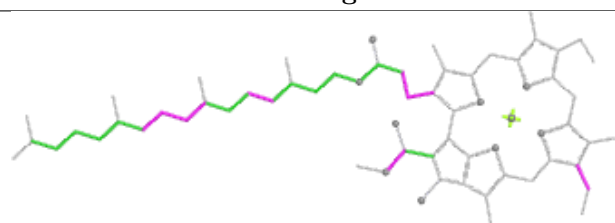
Ligand CHL B 822



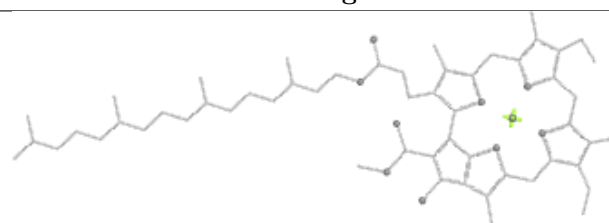
Bond lengths



Bond angles

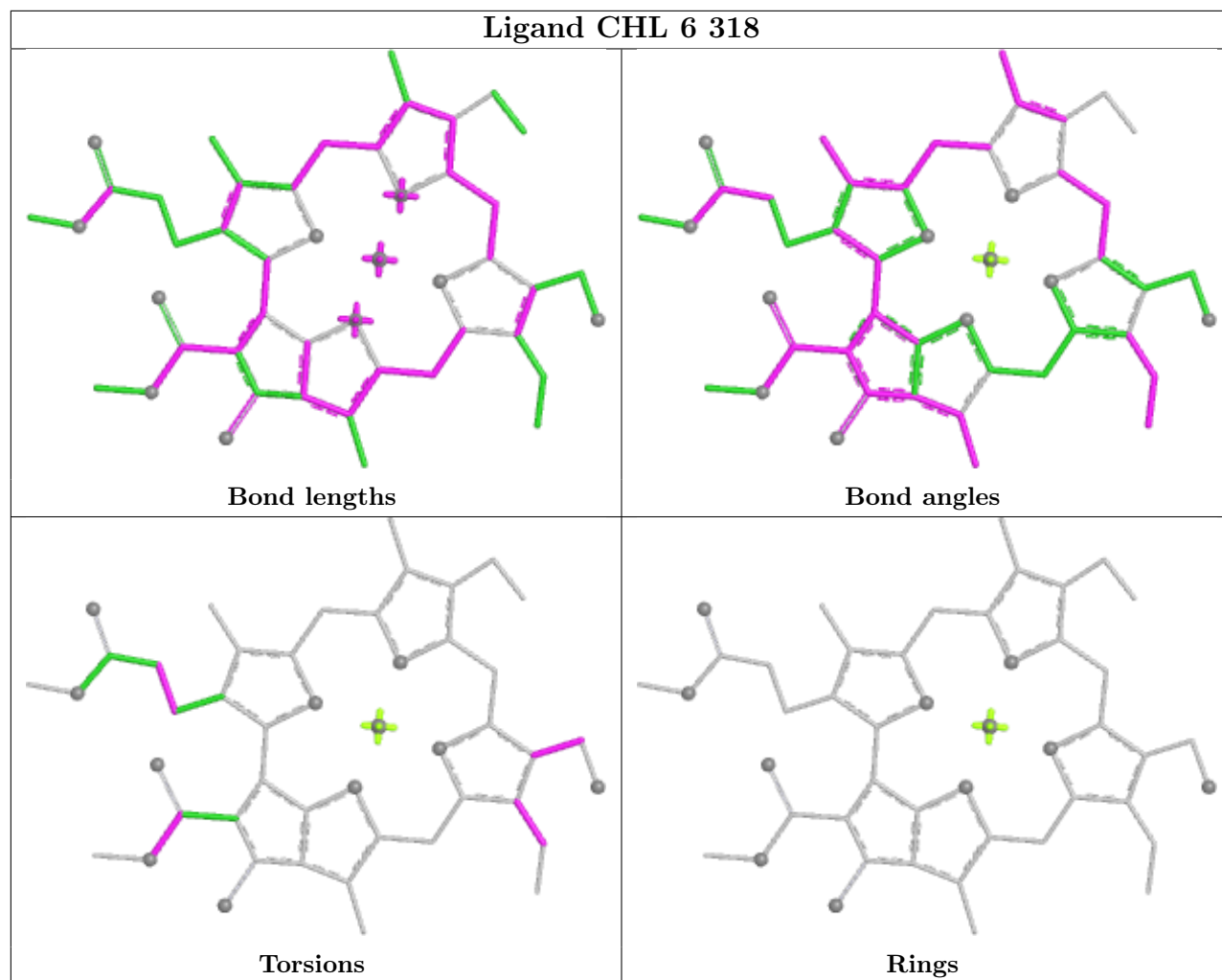


Torsions

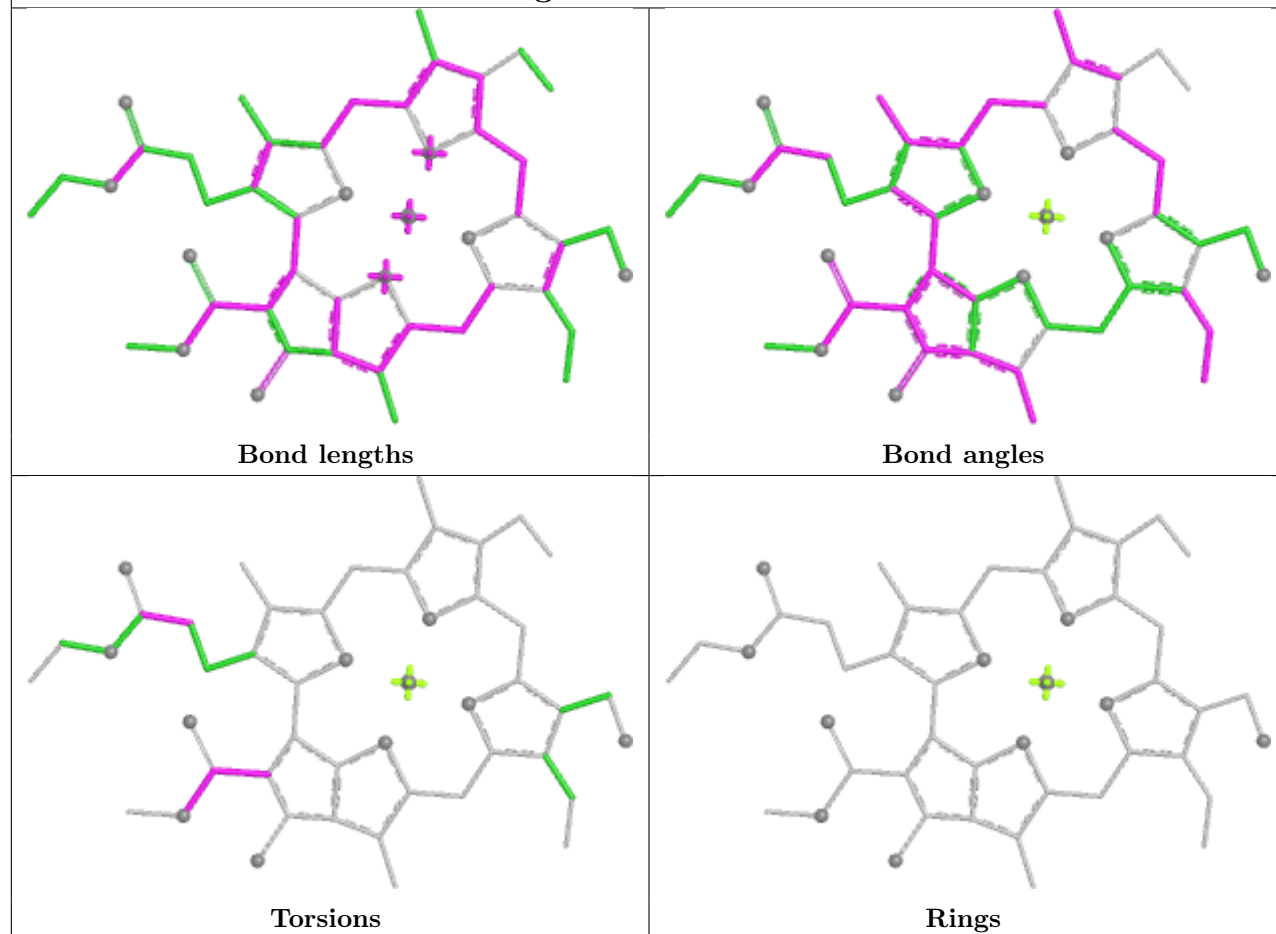


Rings

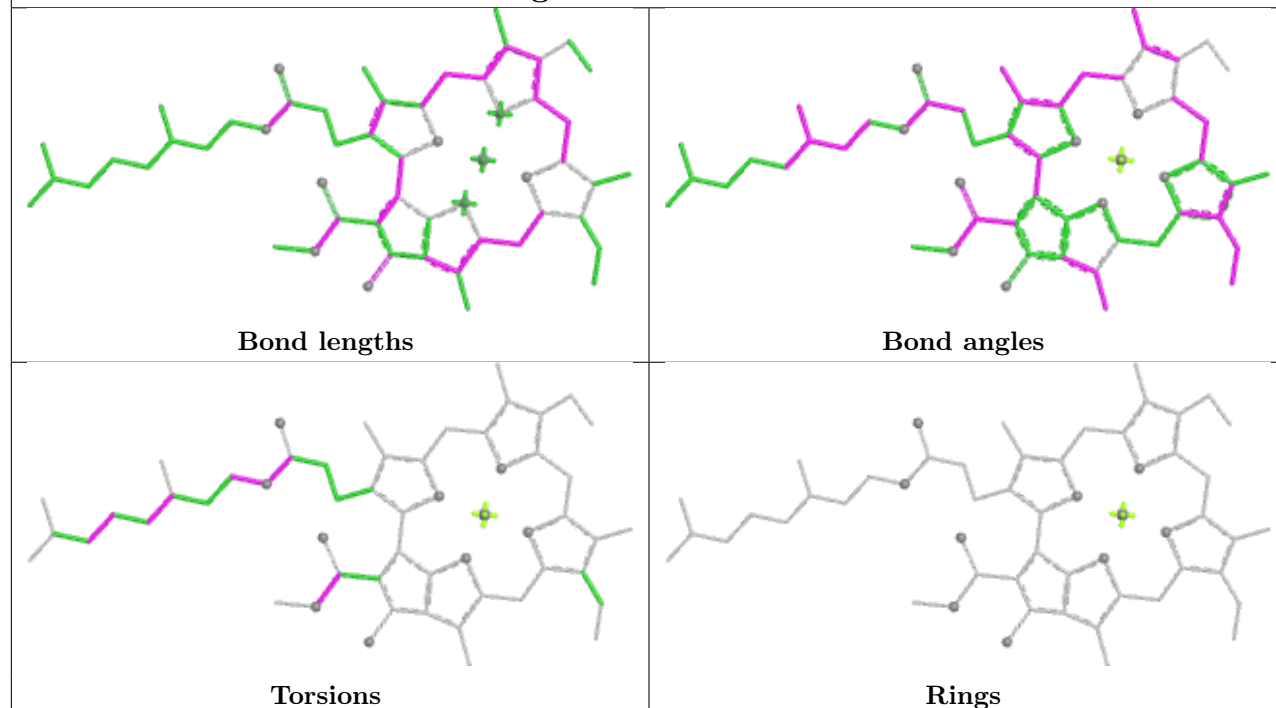
Ligand CHL 6 318

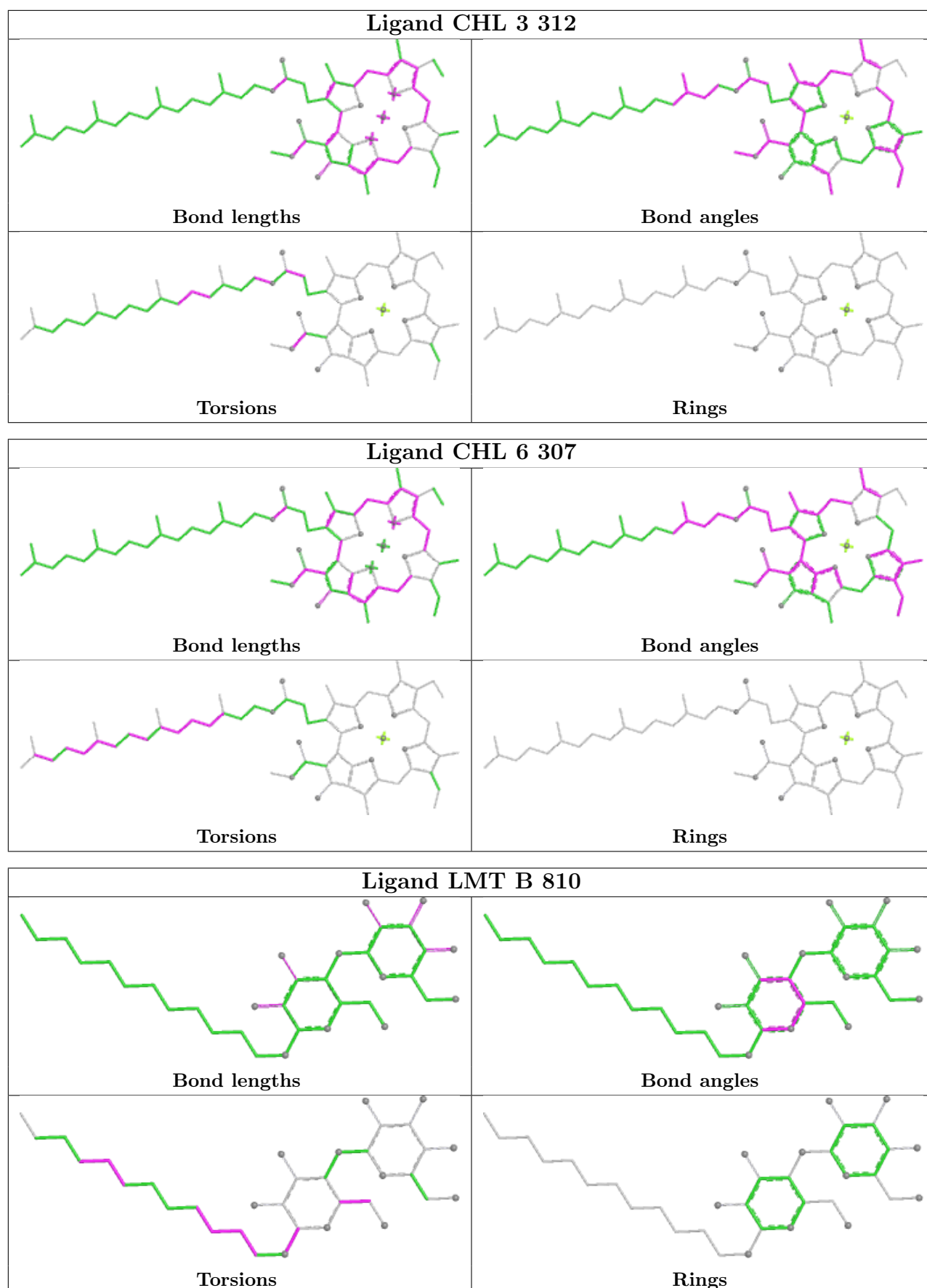


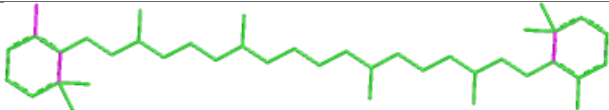
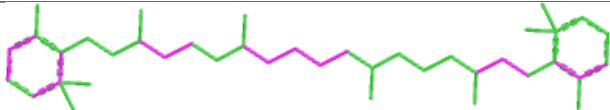
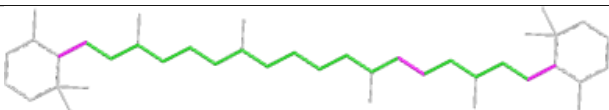
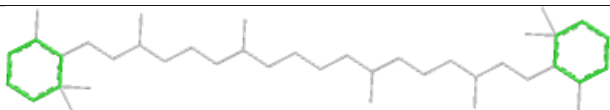
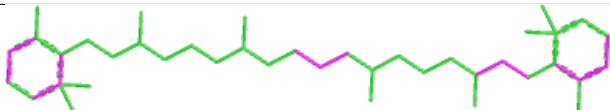
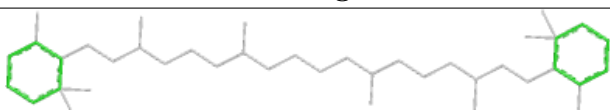
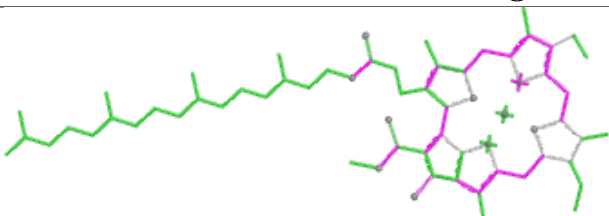
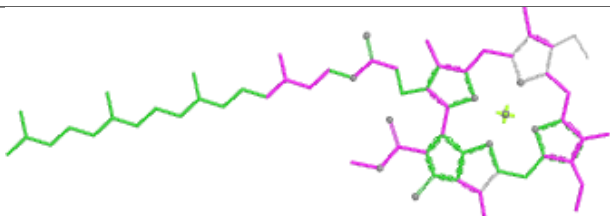
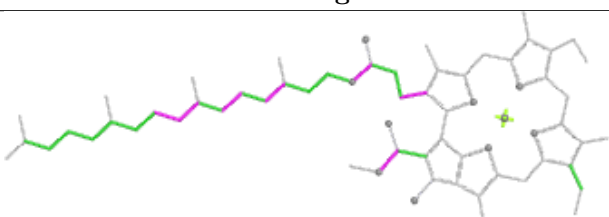
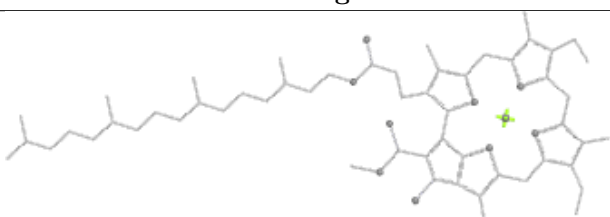
Ligand CHL b 317

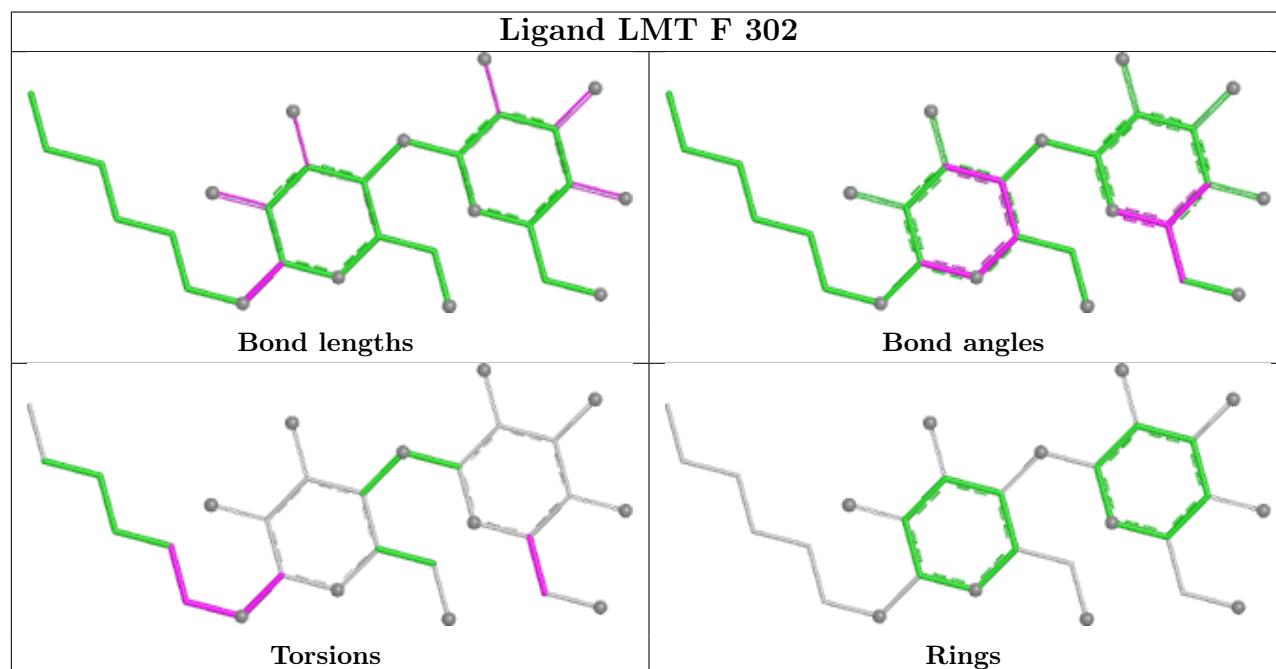
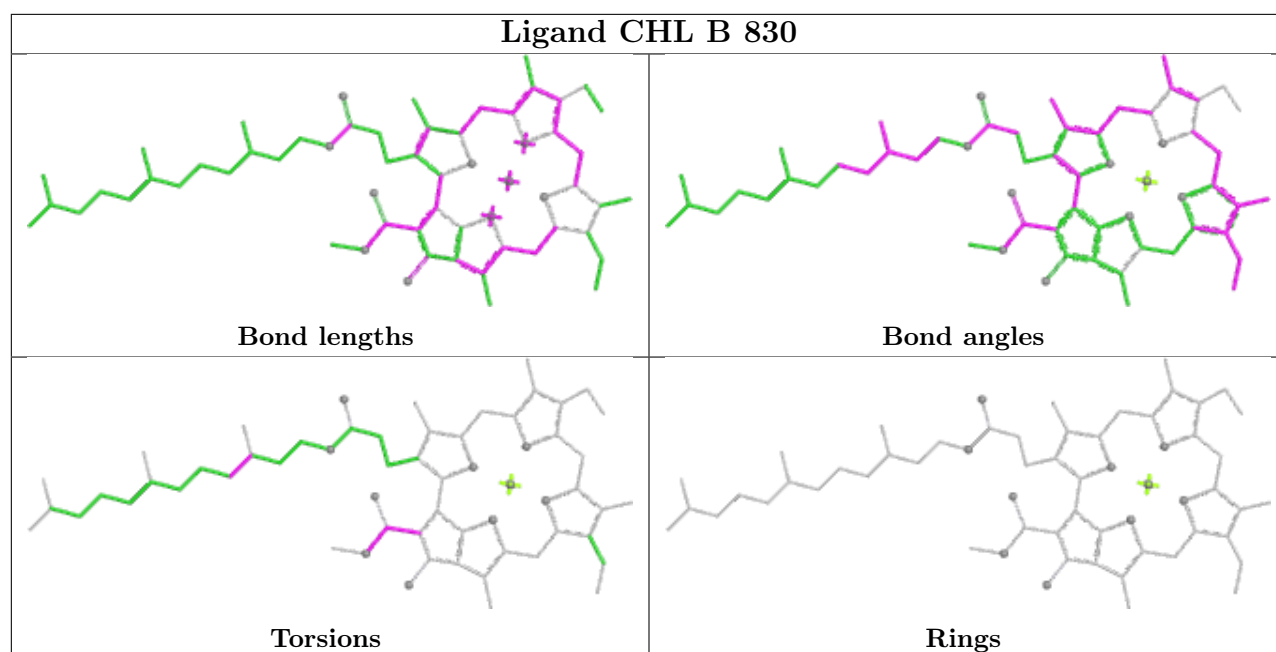


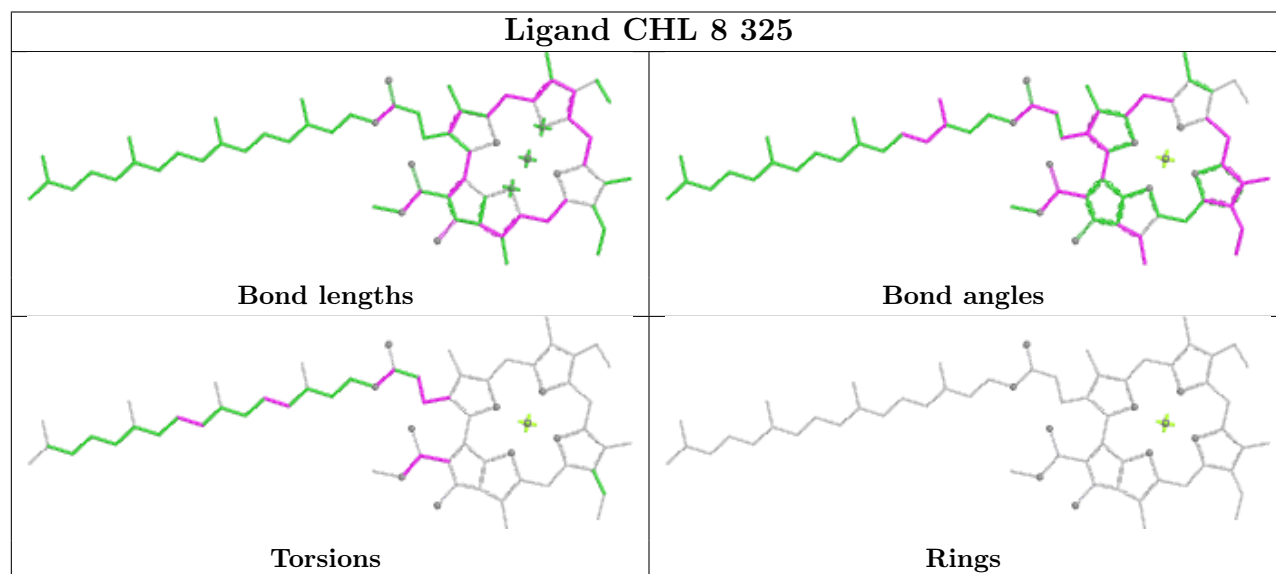
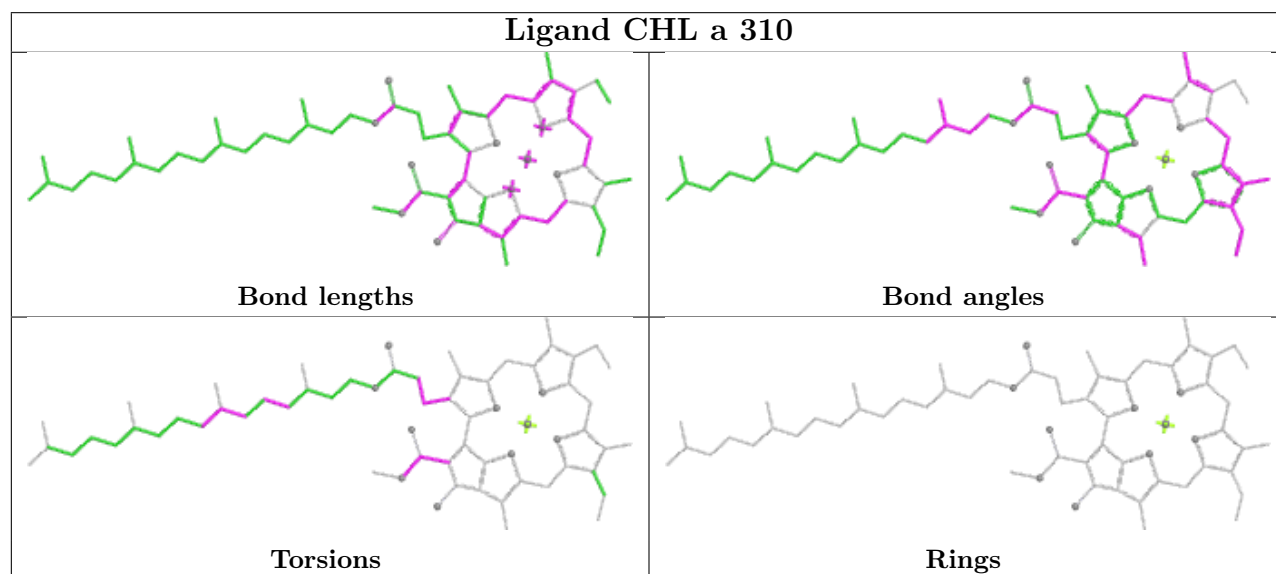
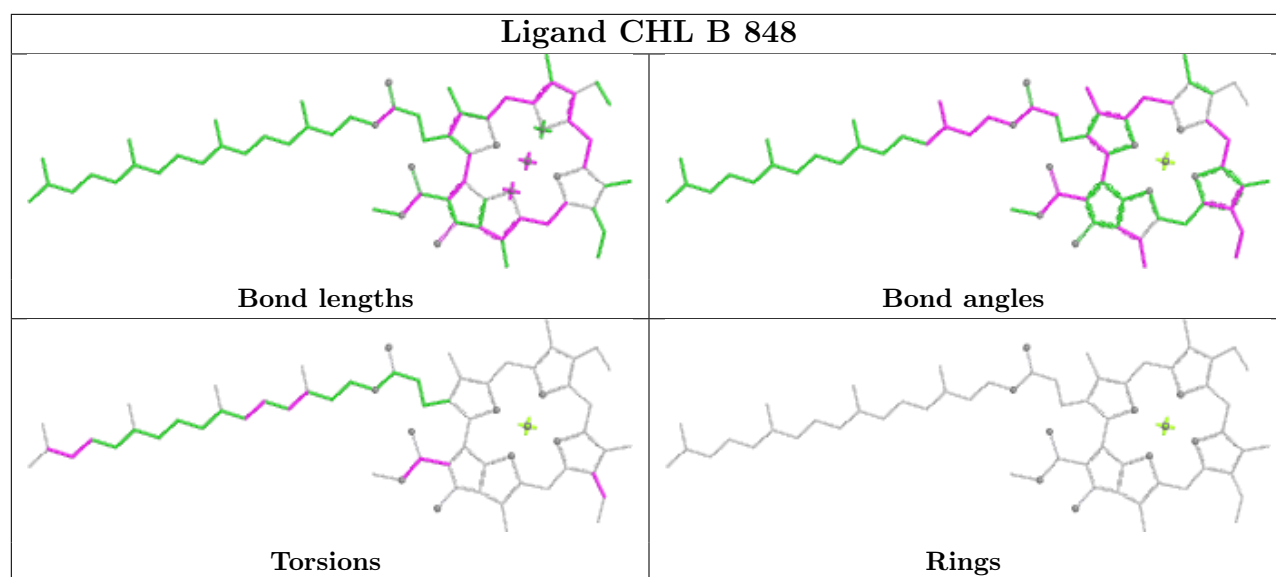
Ligand CHL A 829

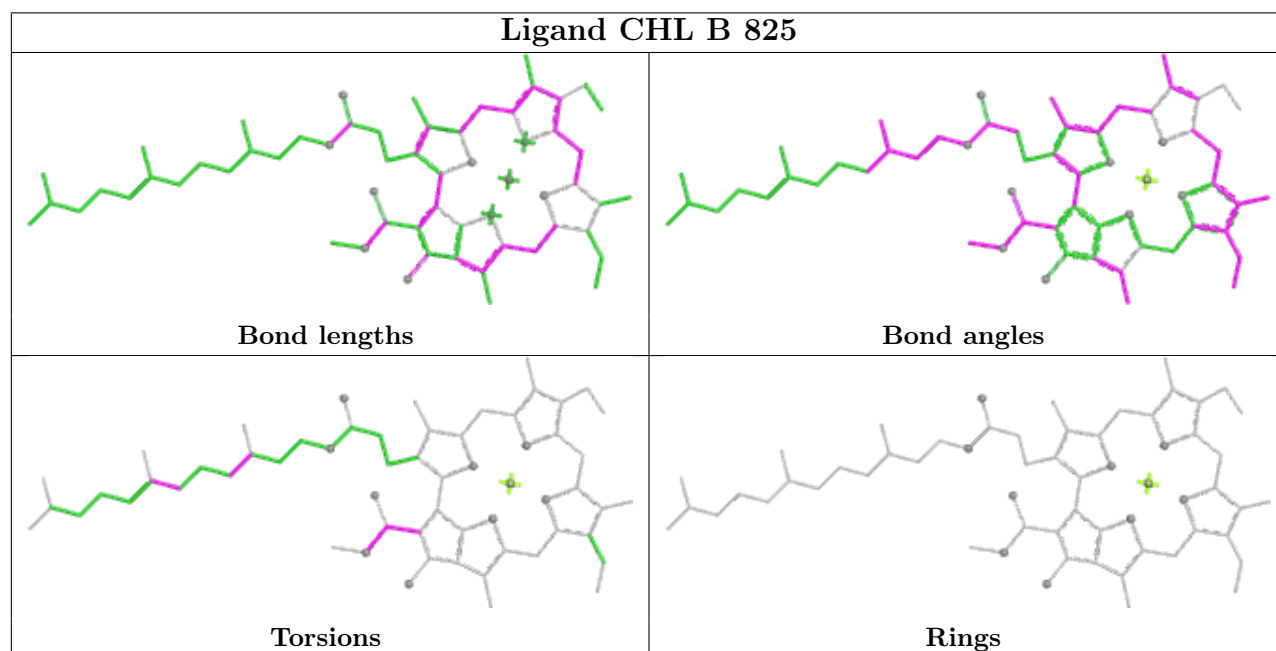
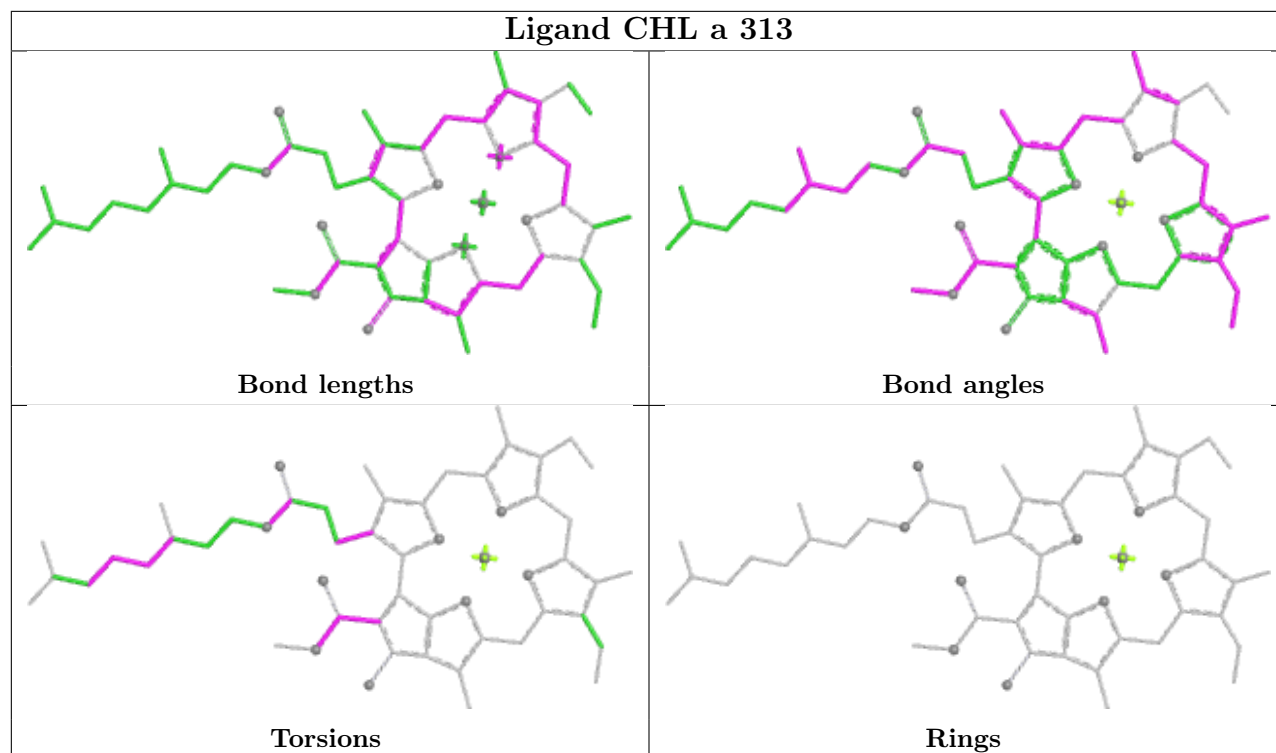


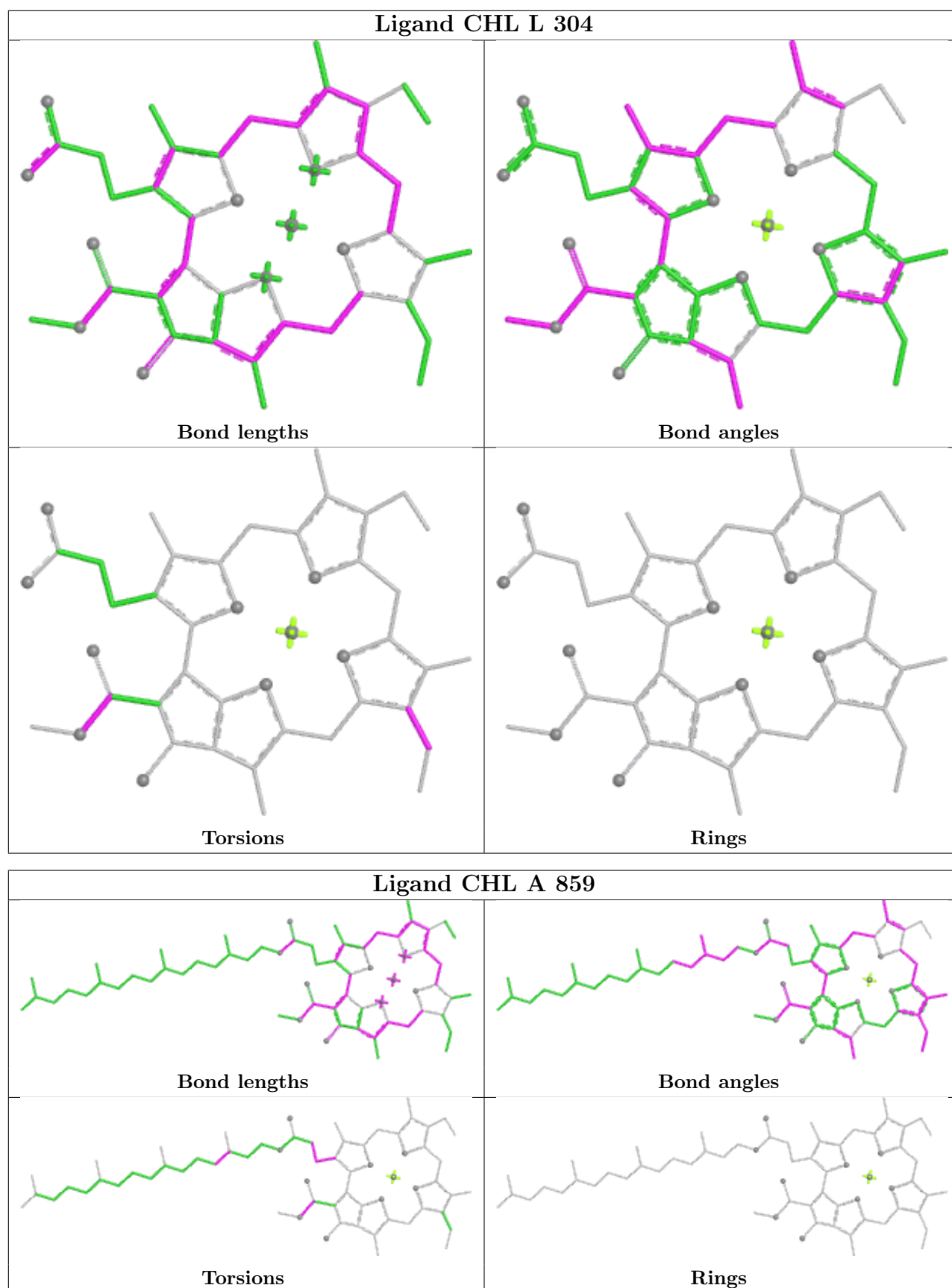


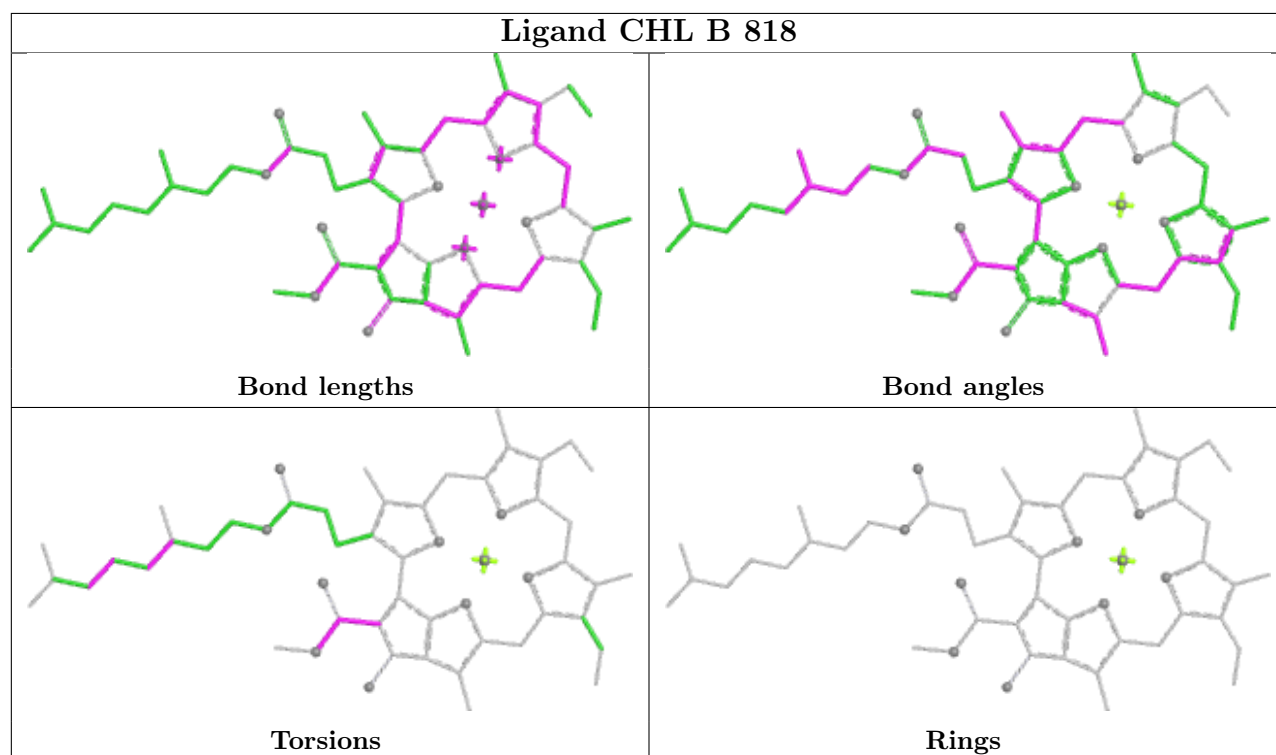
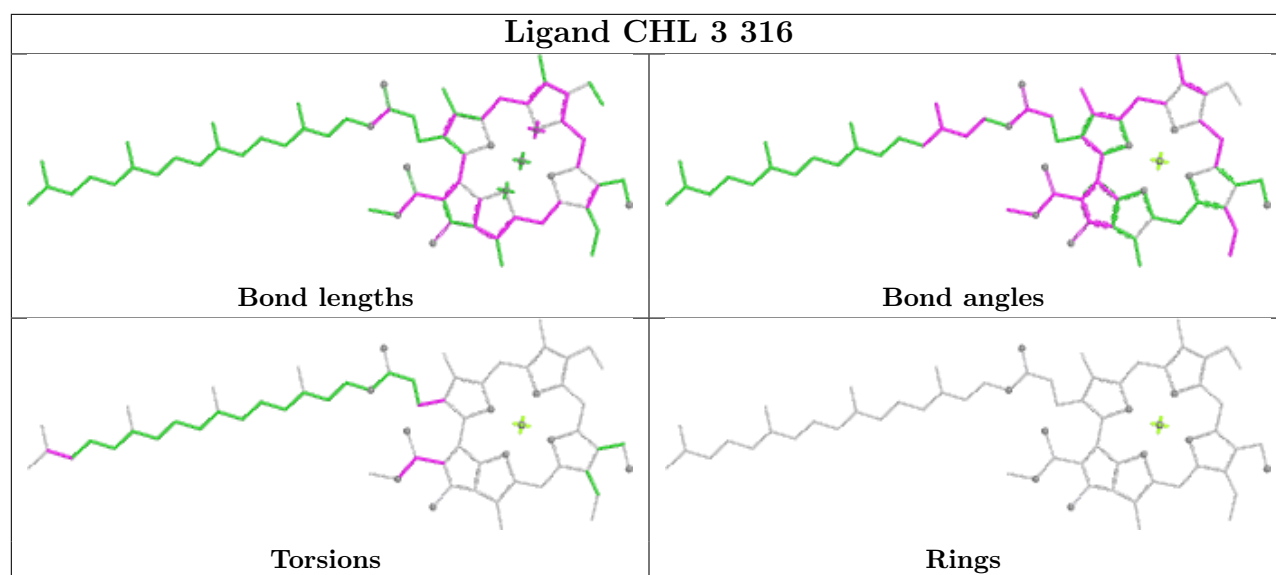
Ligand BCR K 203	
	
Bond lengths	Bond angles
	
Torsions	Rings
Ligand BCR J 102	
	
Bond lengths	Bond angles
	
Torsions	Rings
Ligand CHL A 839	
	
Bond lengths	Bond angles
	
Torsions	Rings

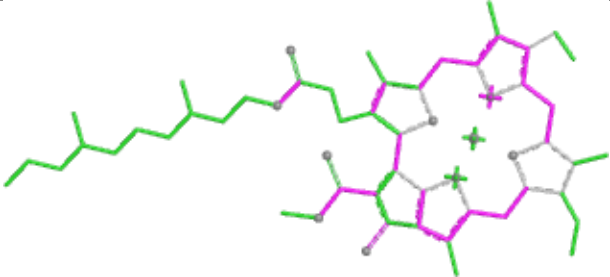
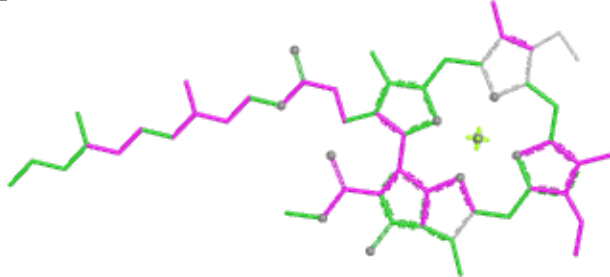
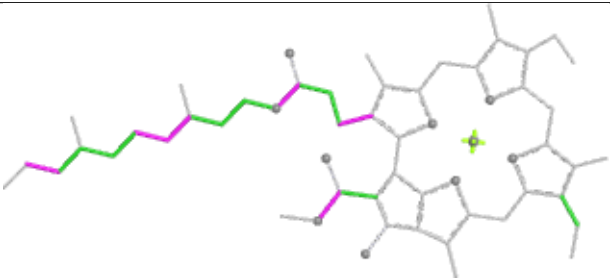
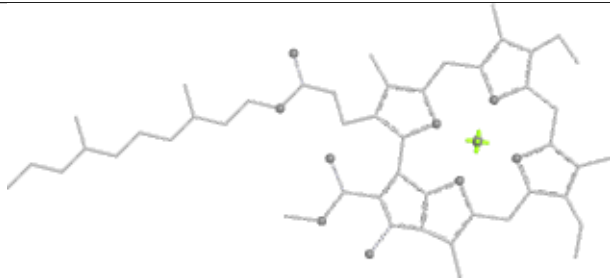
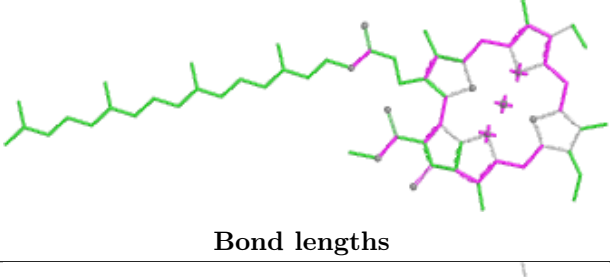
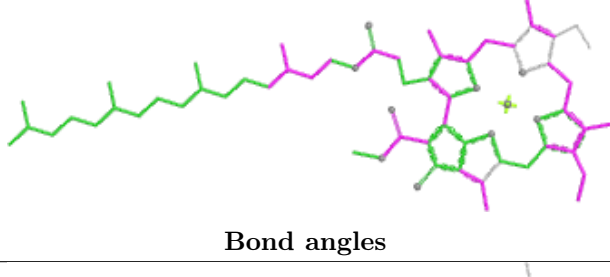
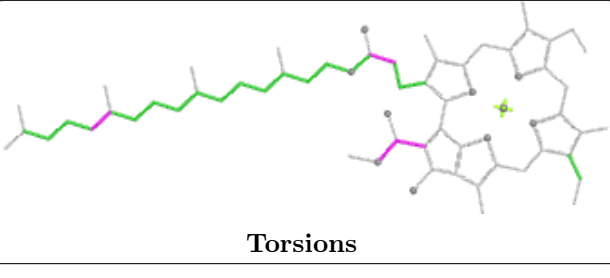
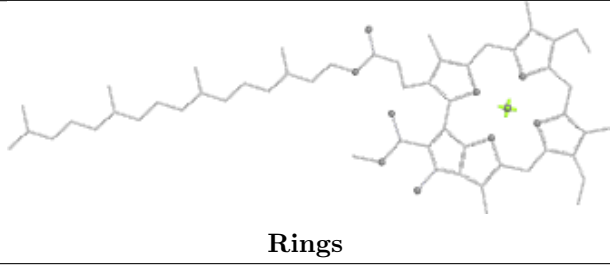


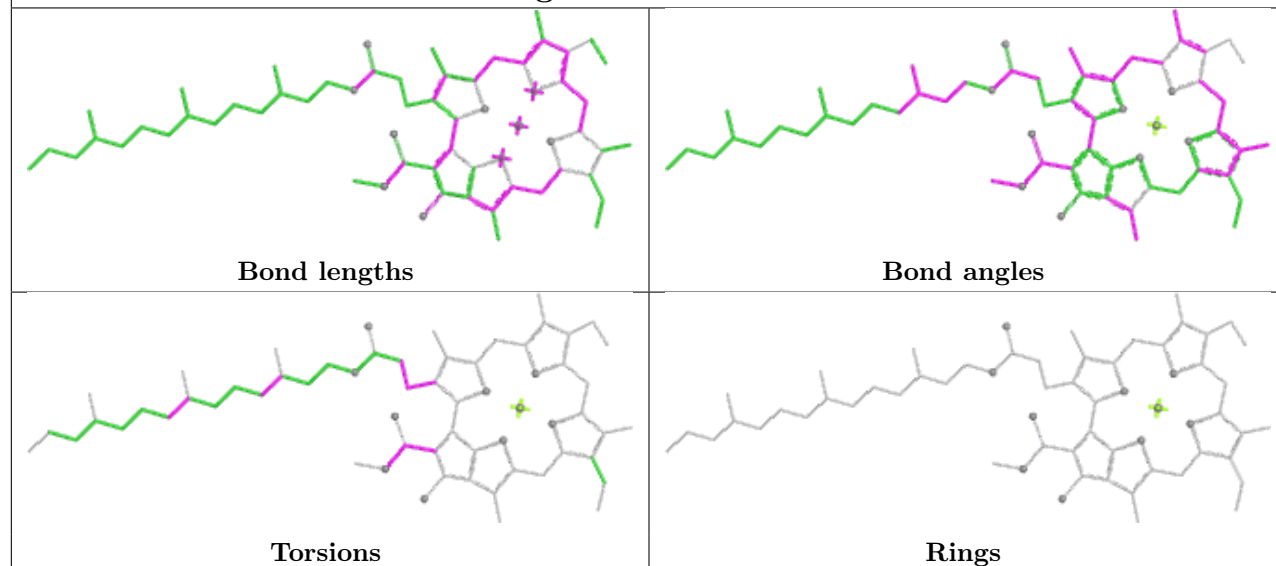
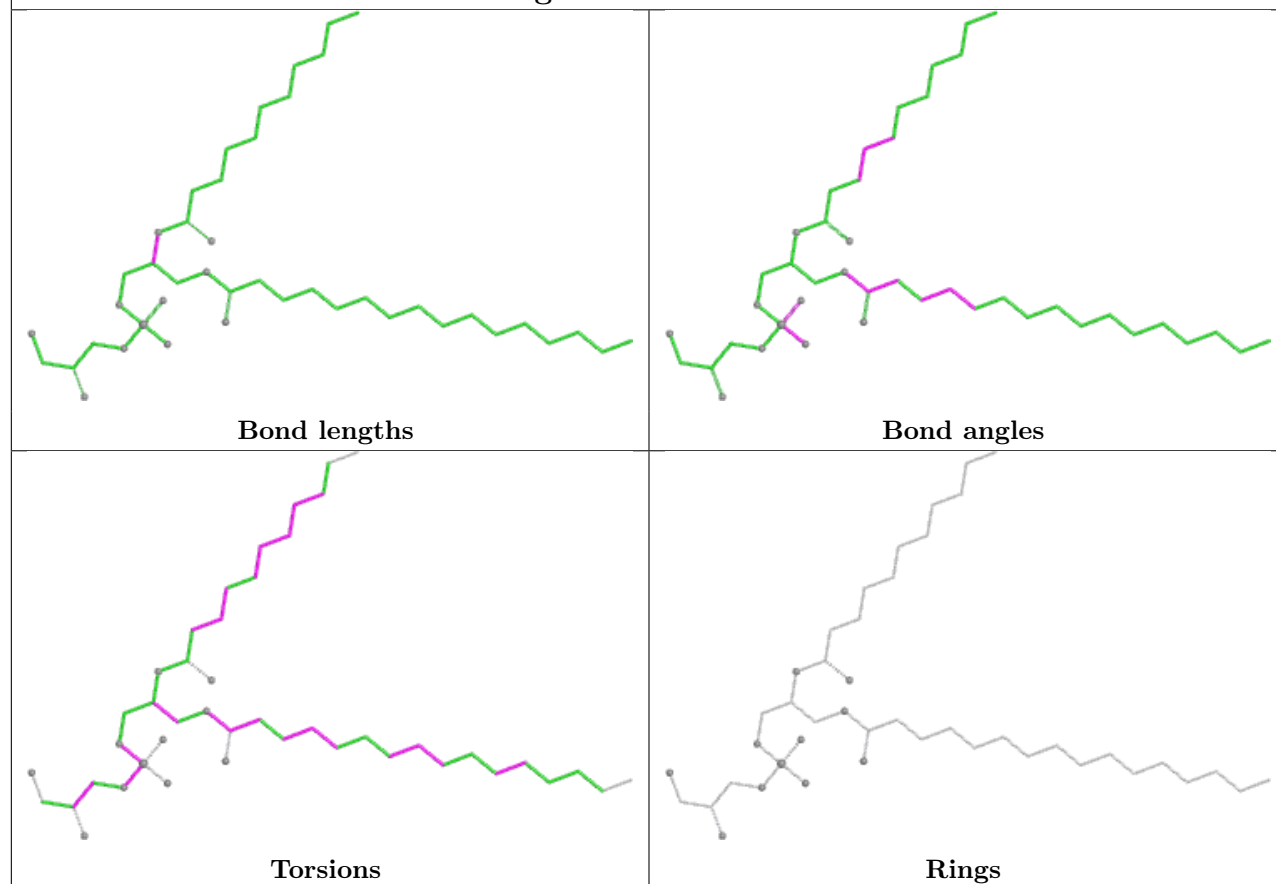


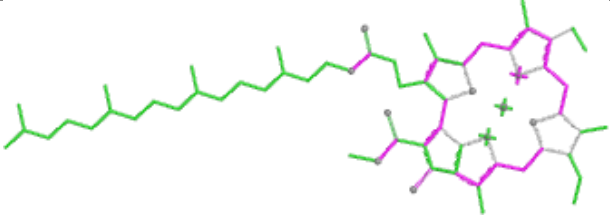
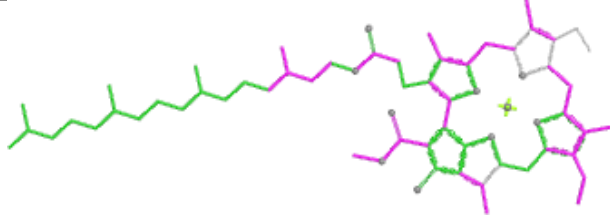
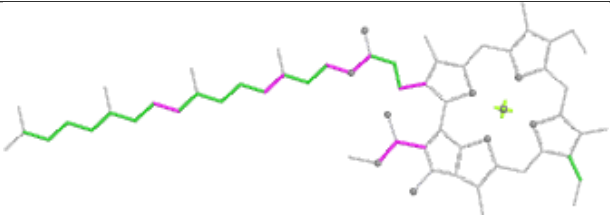
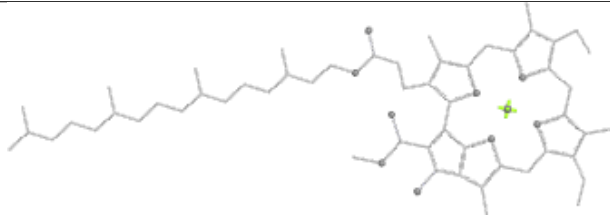
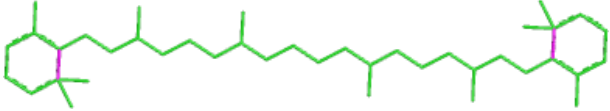
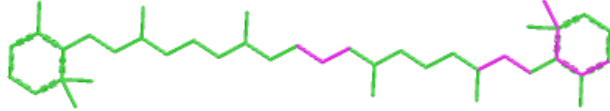
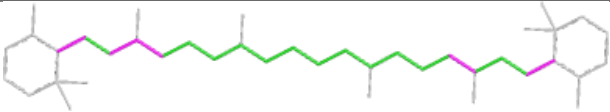
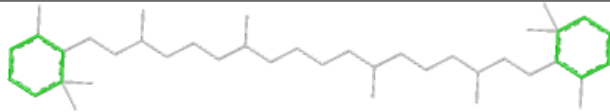
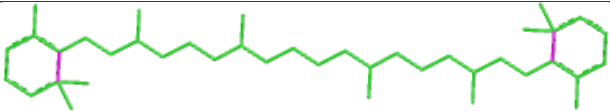
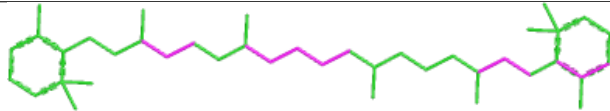
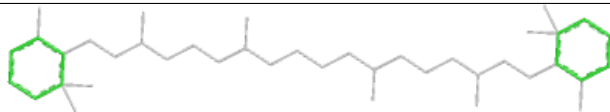


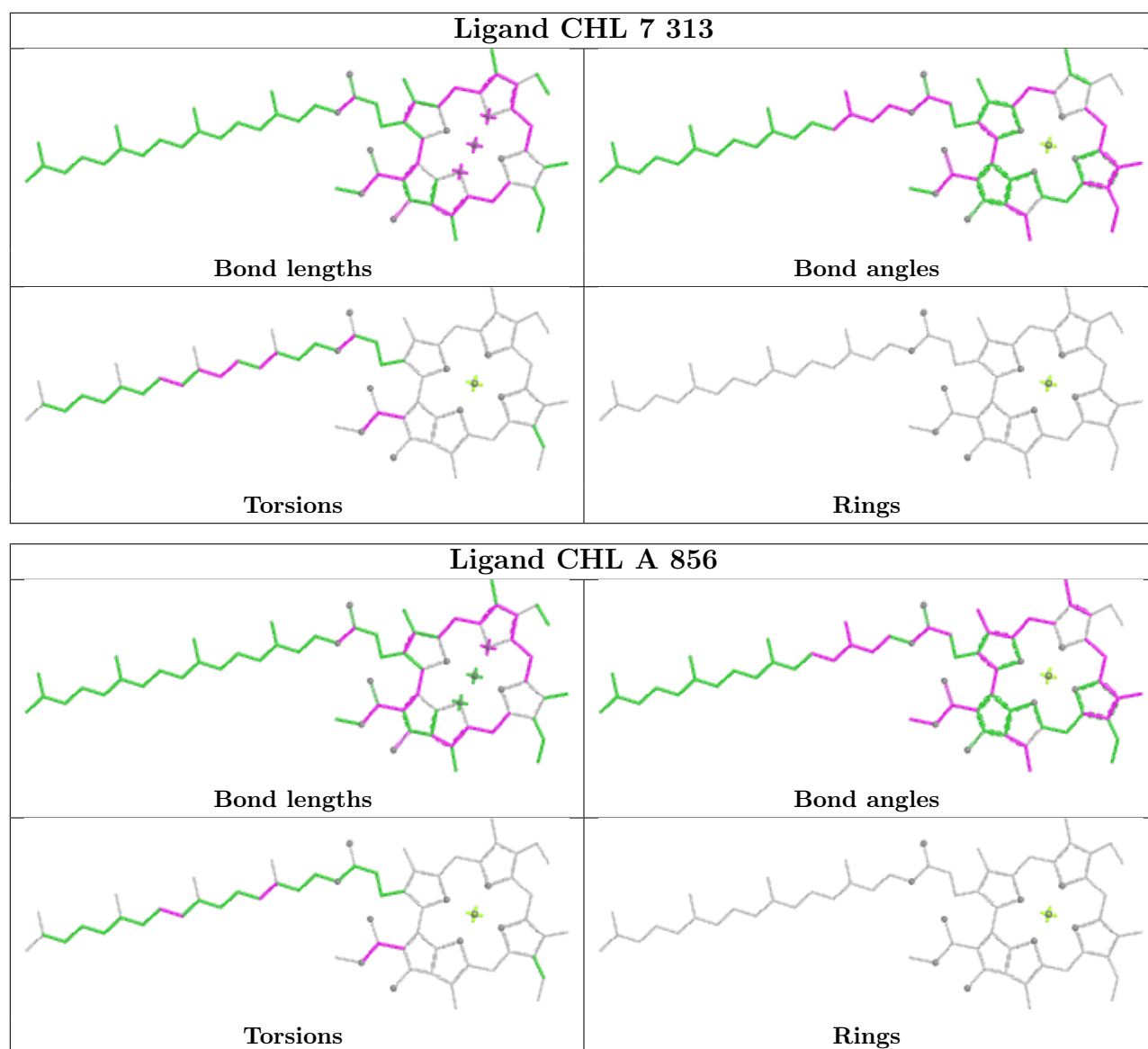


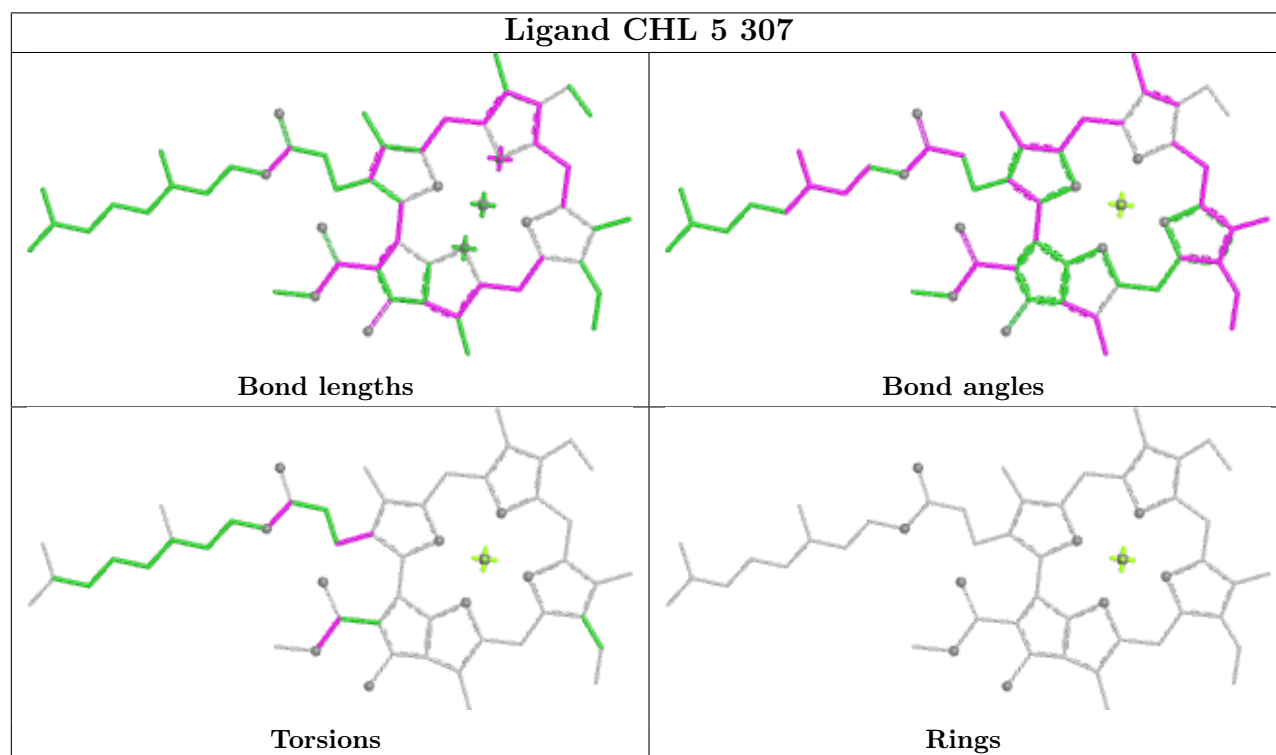
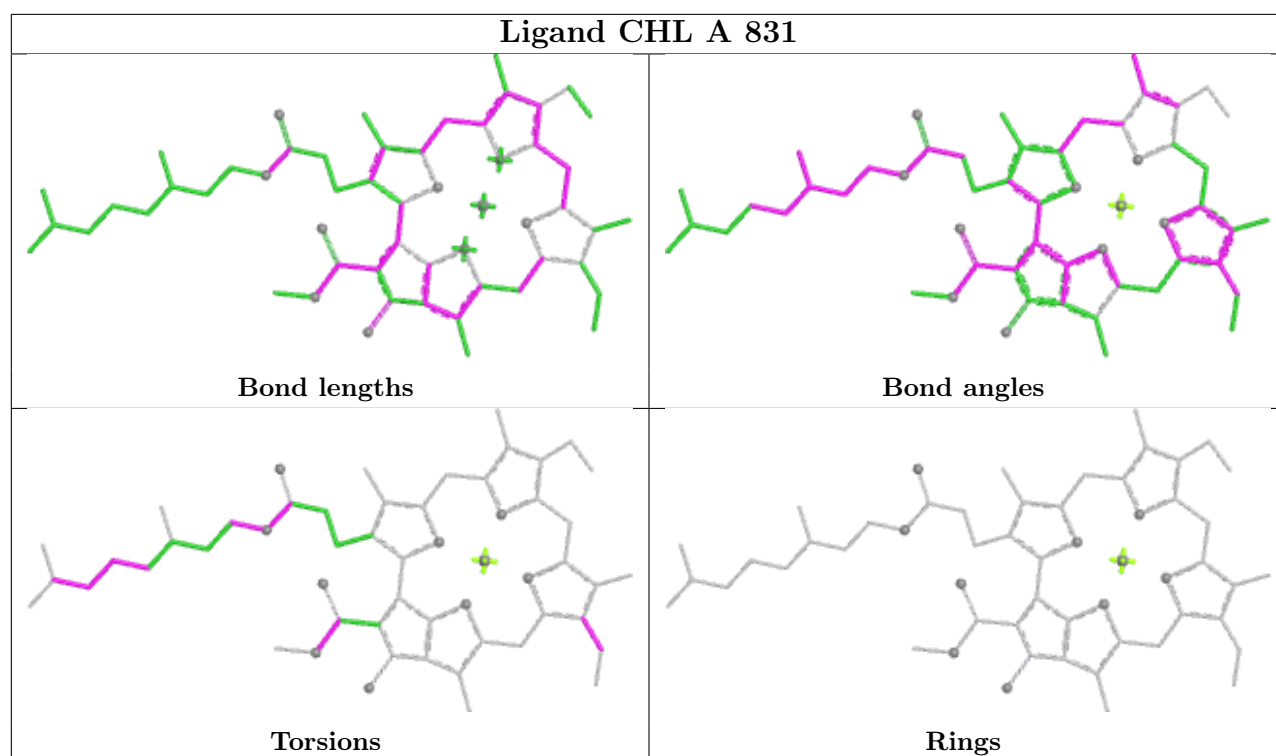


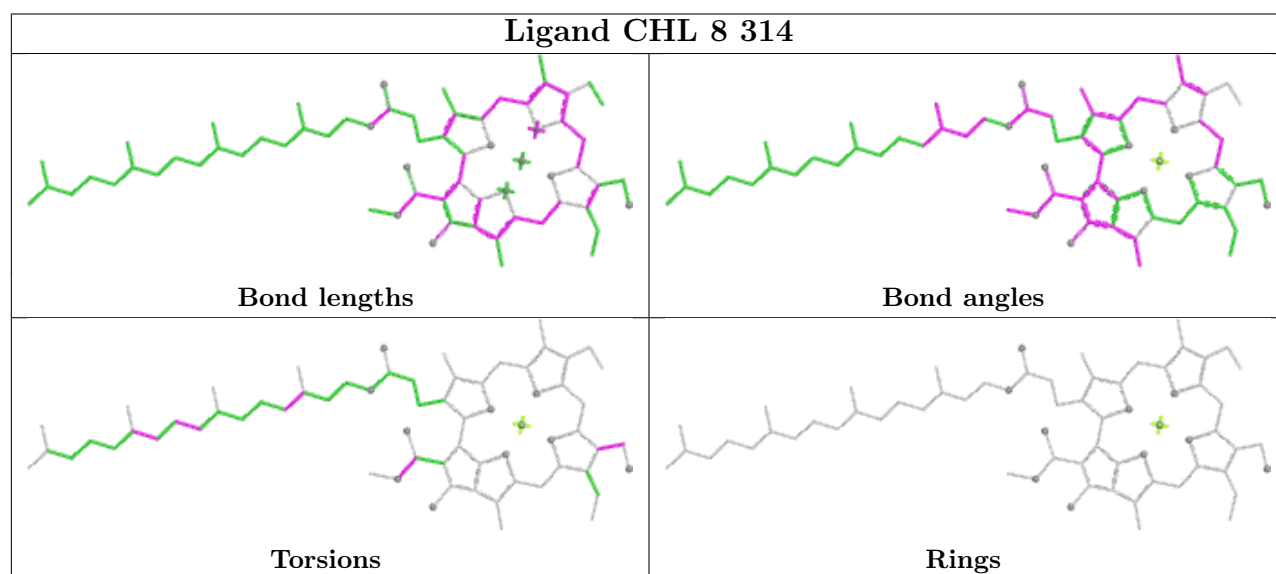
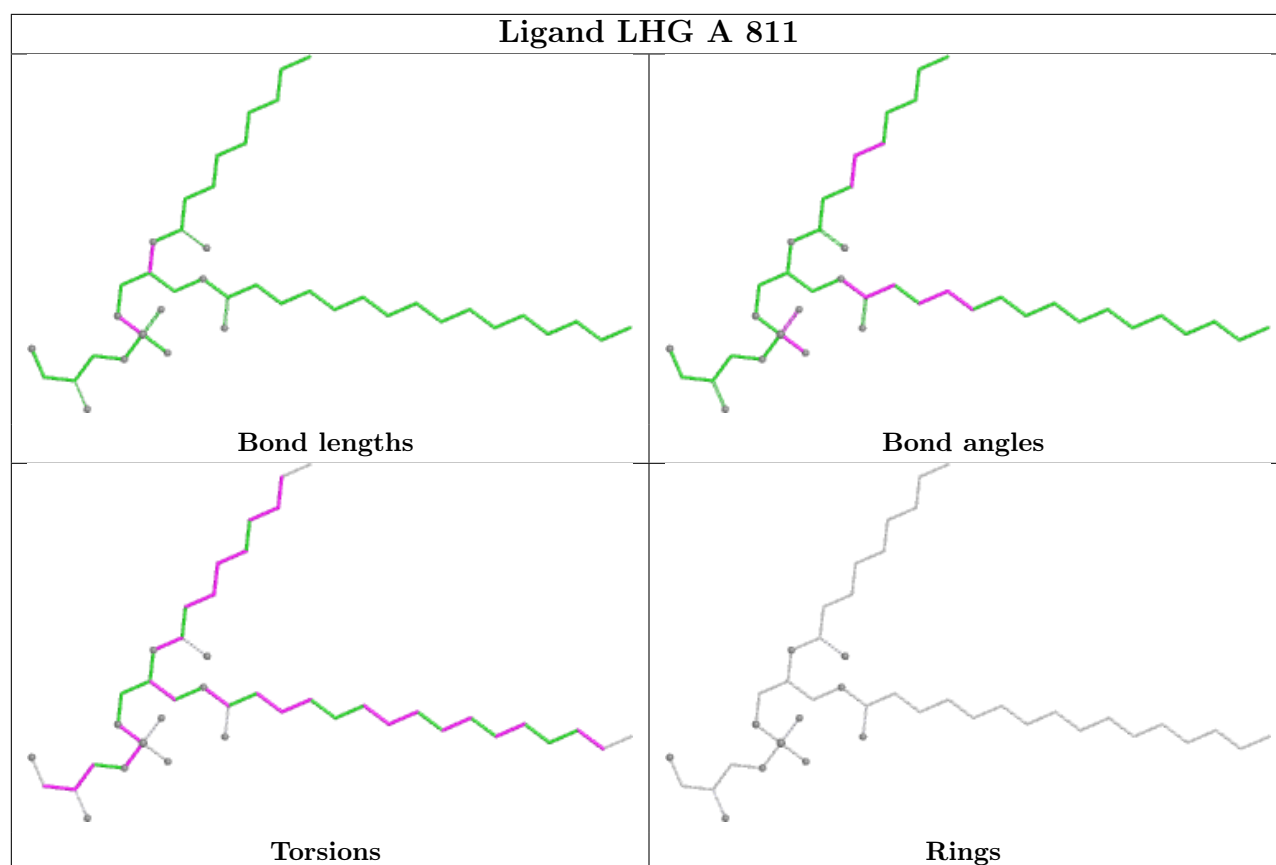
Ligand CHL 5 313	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand CHL B 849	
 Bond lengths	 Bond angles
 Torsions	 Rings

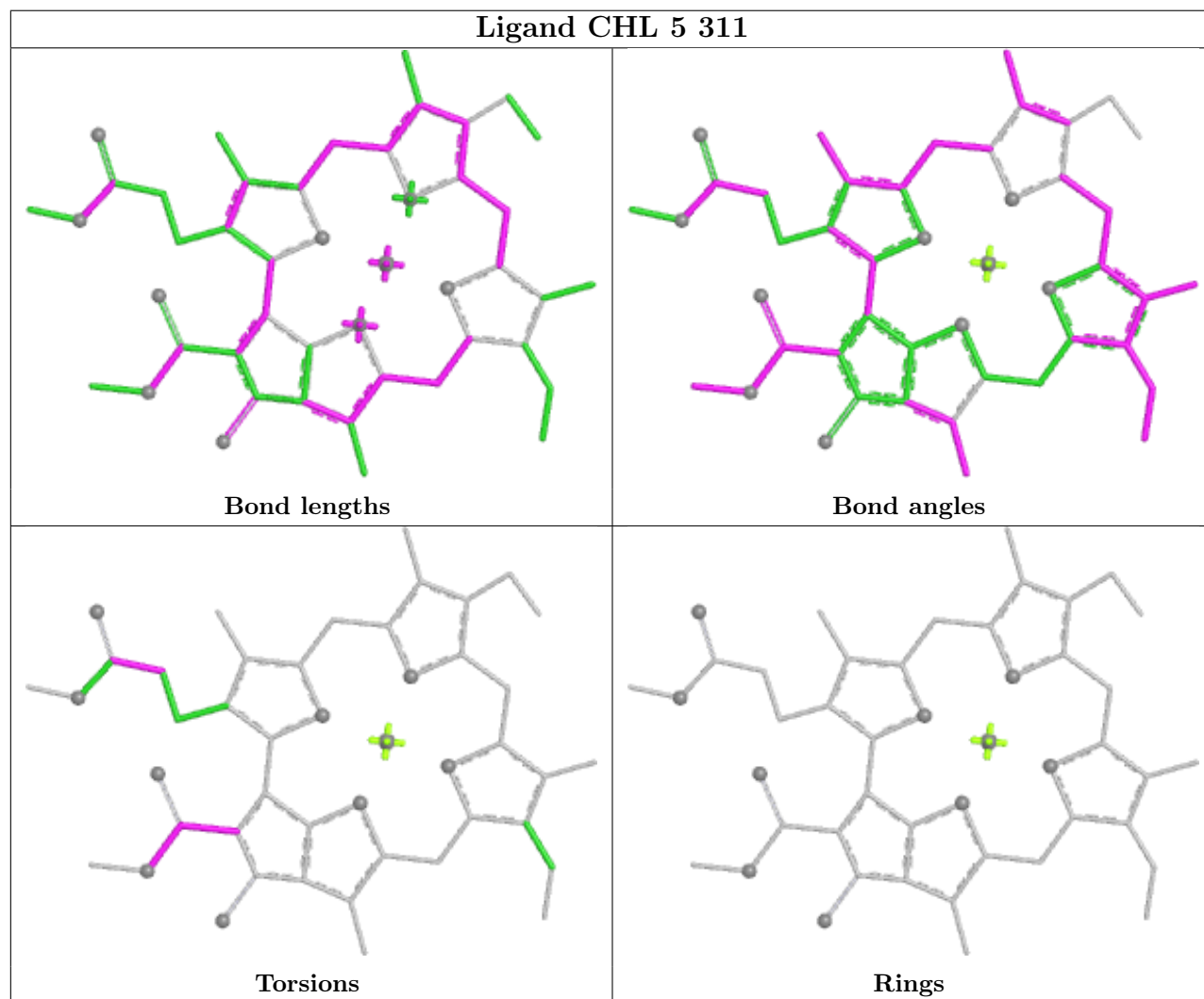
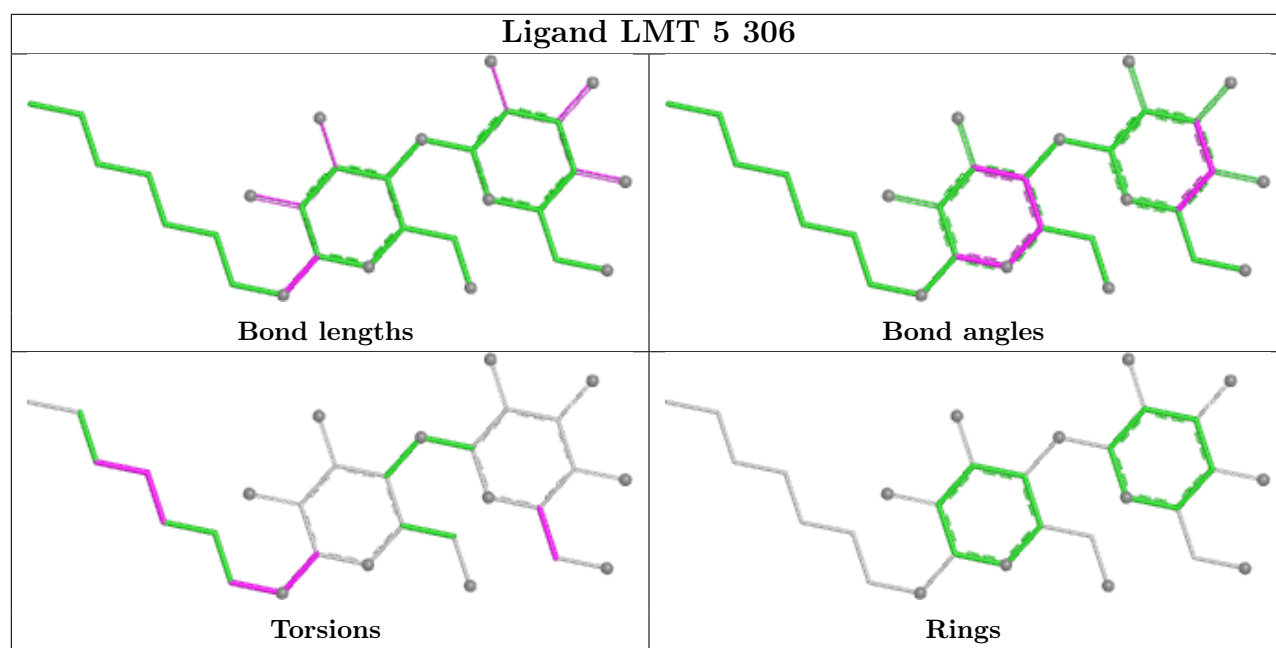
Ligand CHL 7 314**Ligand LHG 7 306**

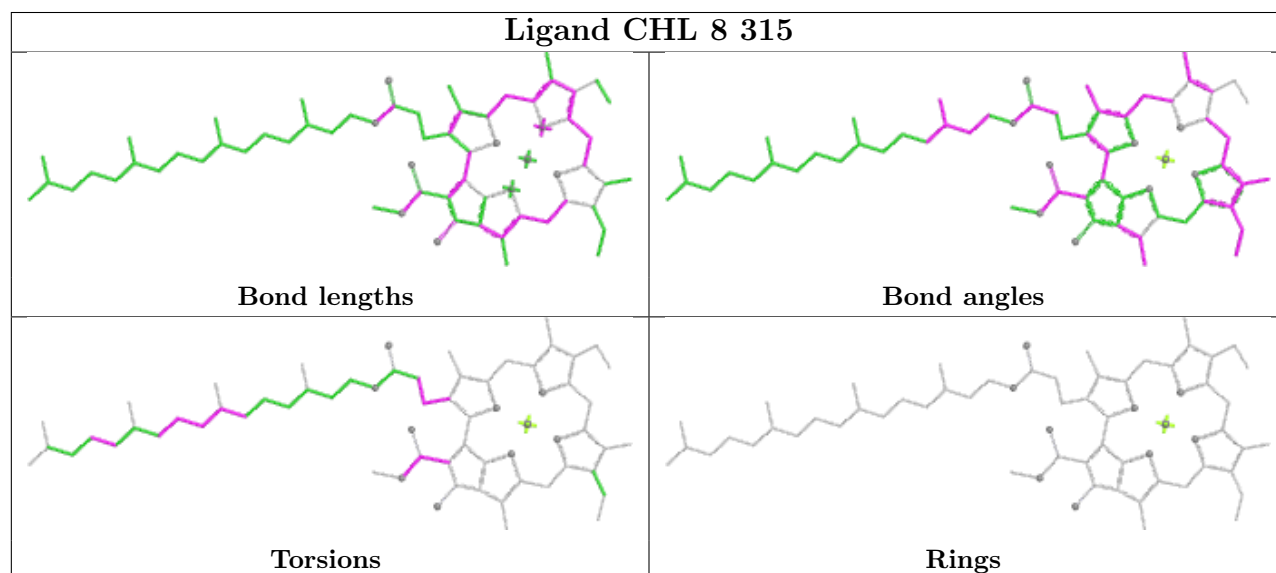
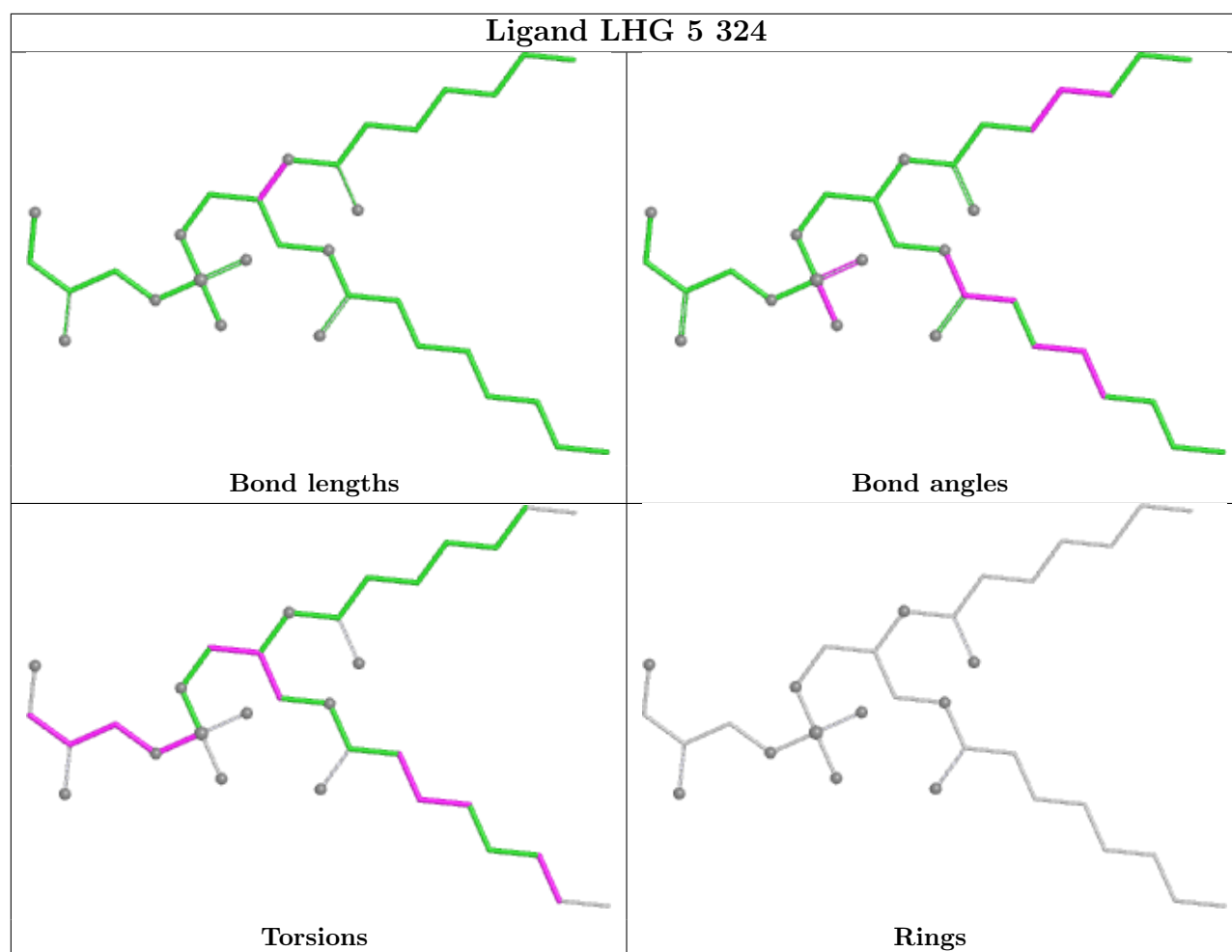
Ligand CHL B 838	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand BCR B 804	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand BCR A 804	
 Bond lengths	 Bond angles
 Torsions	 Rings



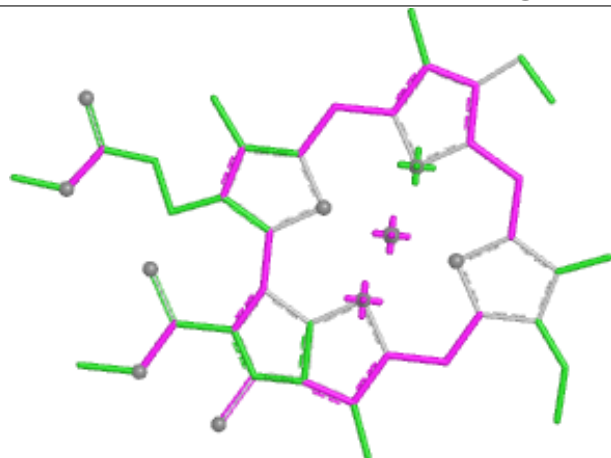




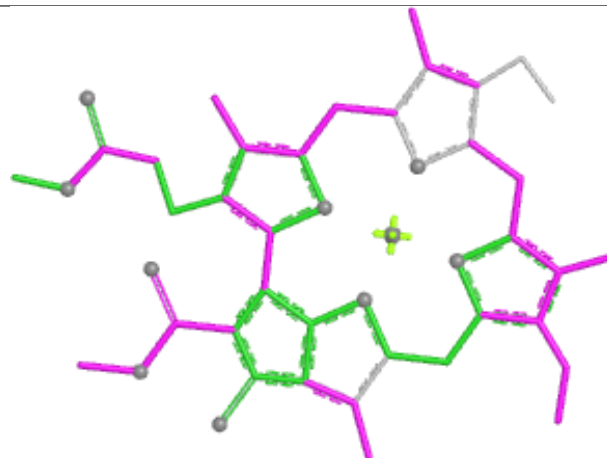




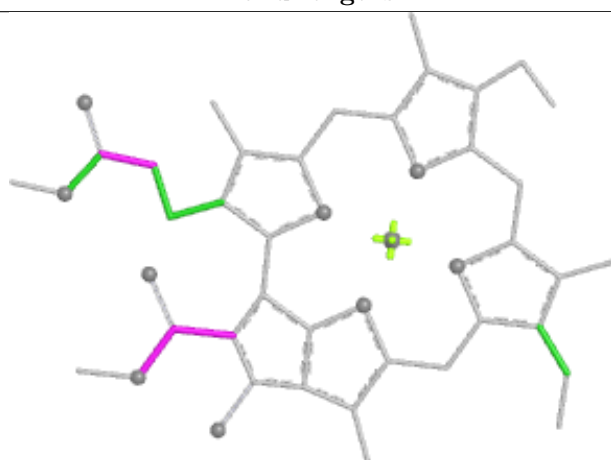
Ligand CHL b 312



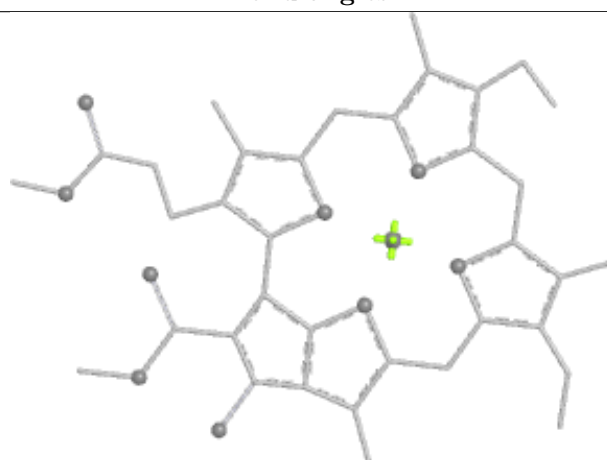
Bond lengths



Bond angles

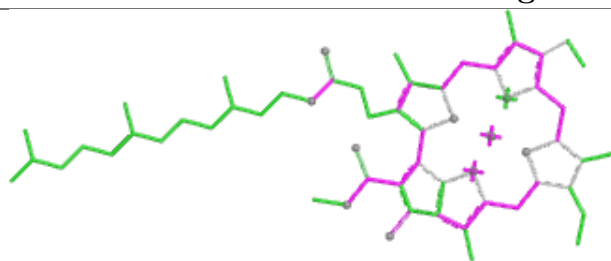


Torsions

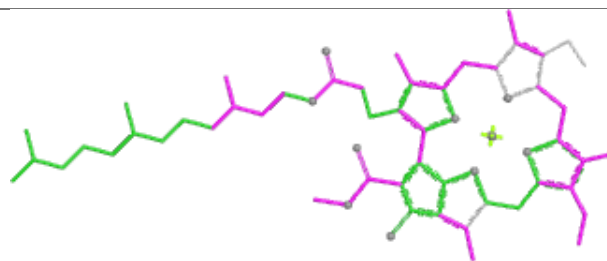


Rings

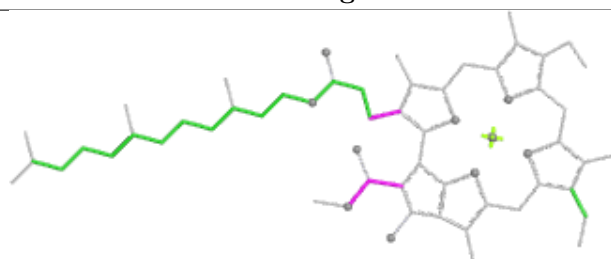
Ligand CHL 7 311



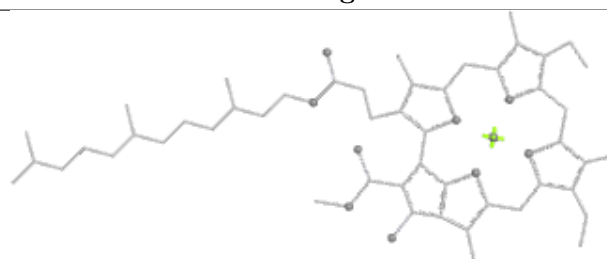
Bond lengths



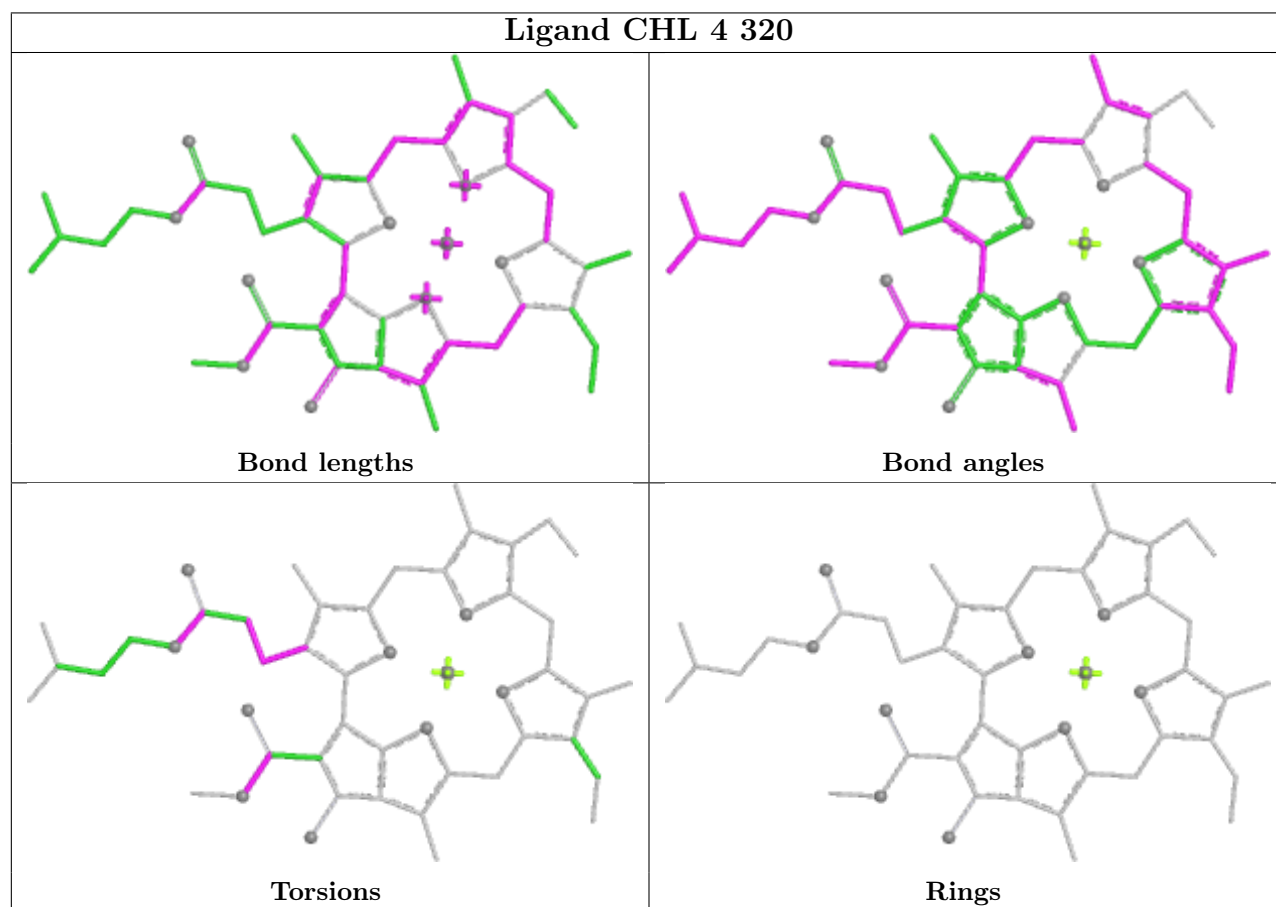
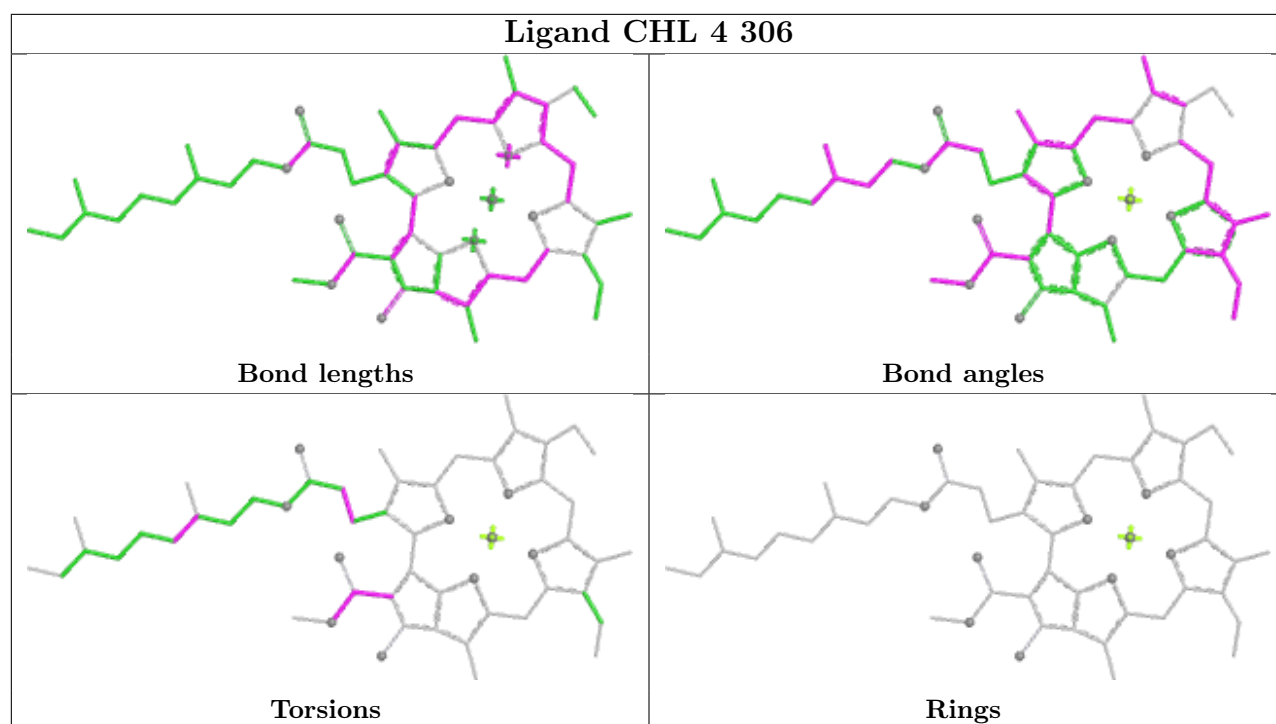
Bond angles

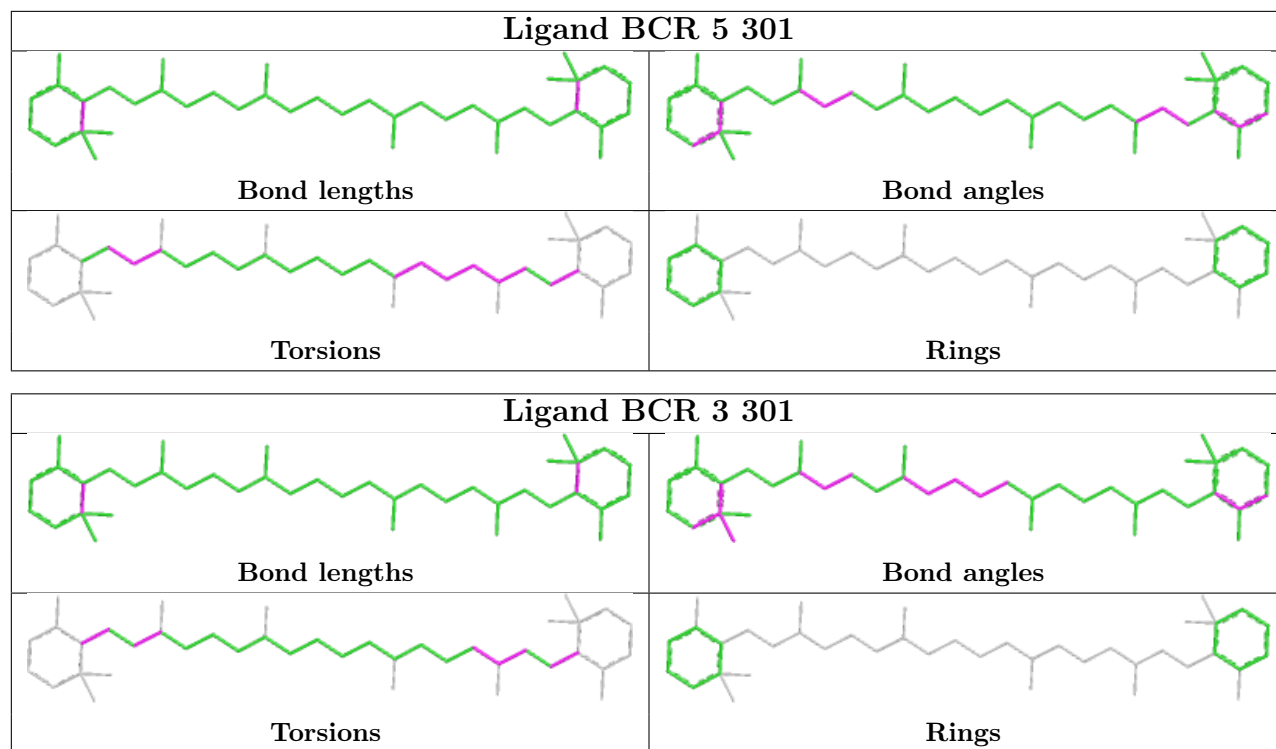


Torsions

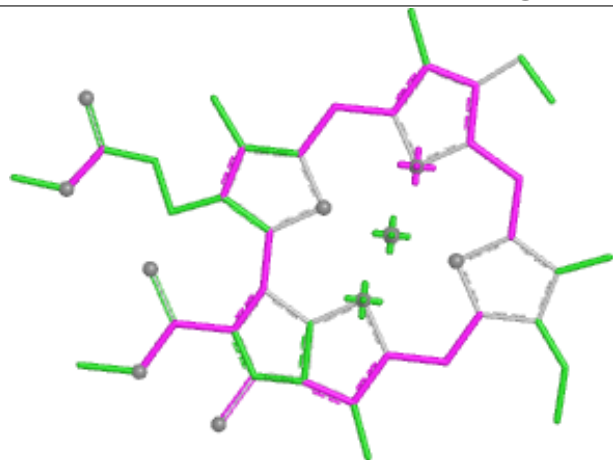


Rings

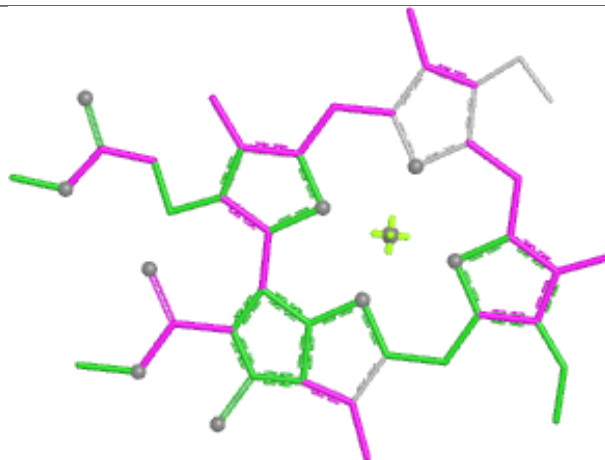




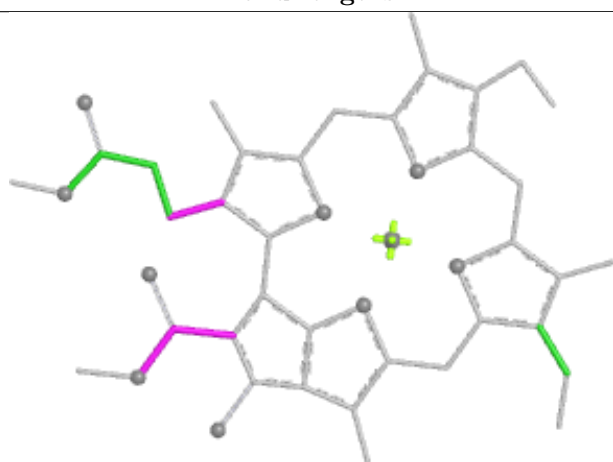
Ligand CHL b 306



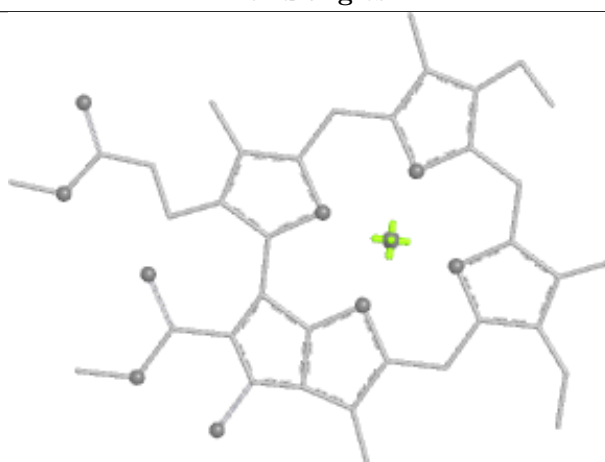
Bond lengths



Bond angles

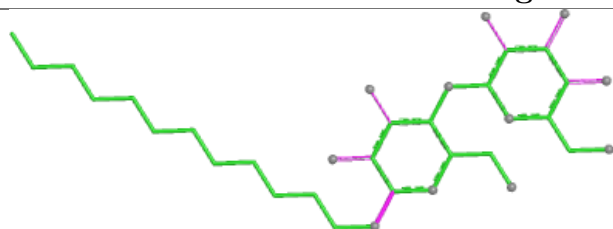


Torsions

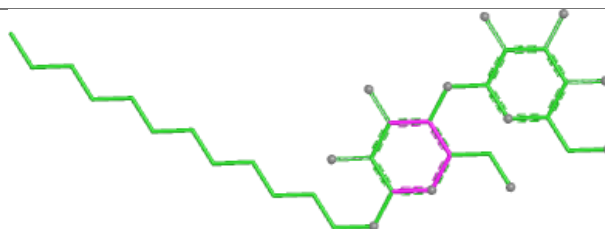


Rings

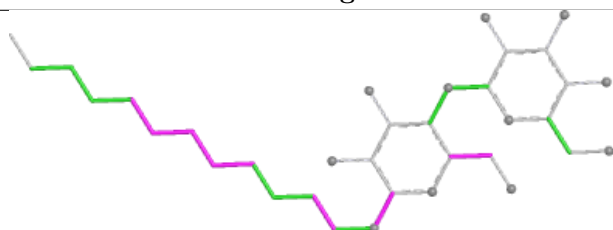
Ligand LMT 5 326



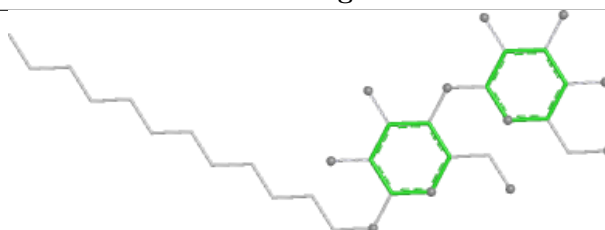
Bond lengths



Bond angles

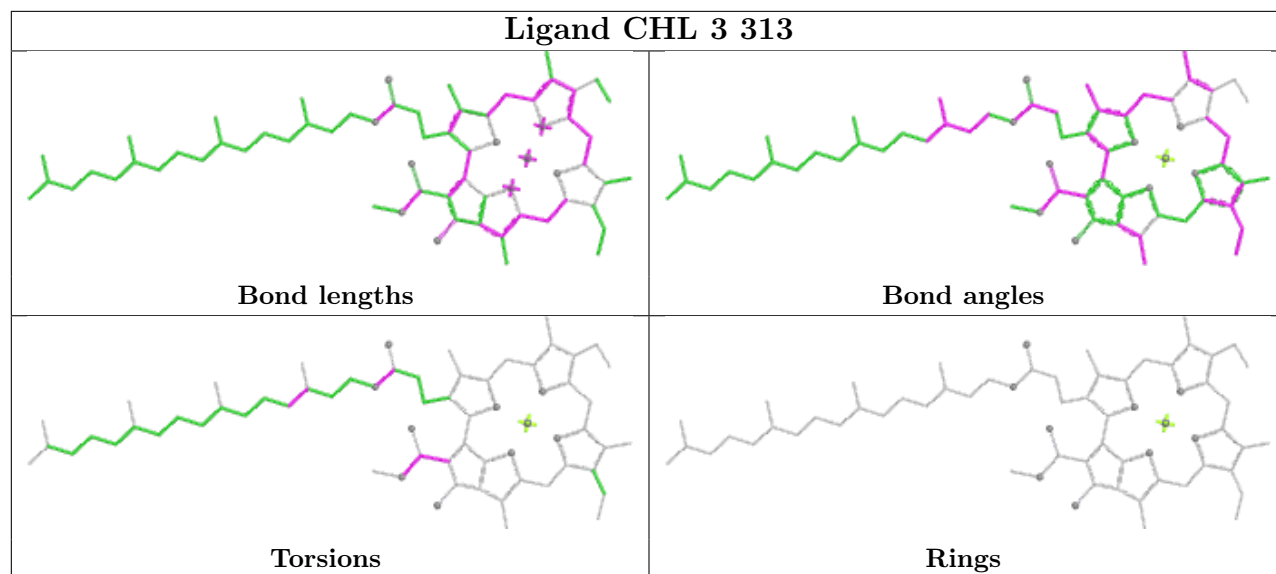


Torsions

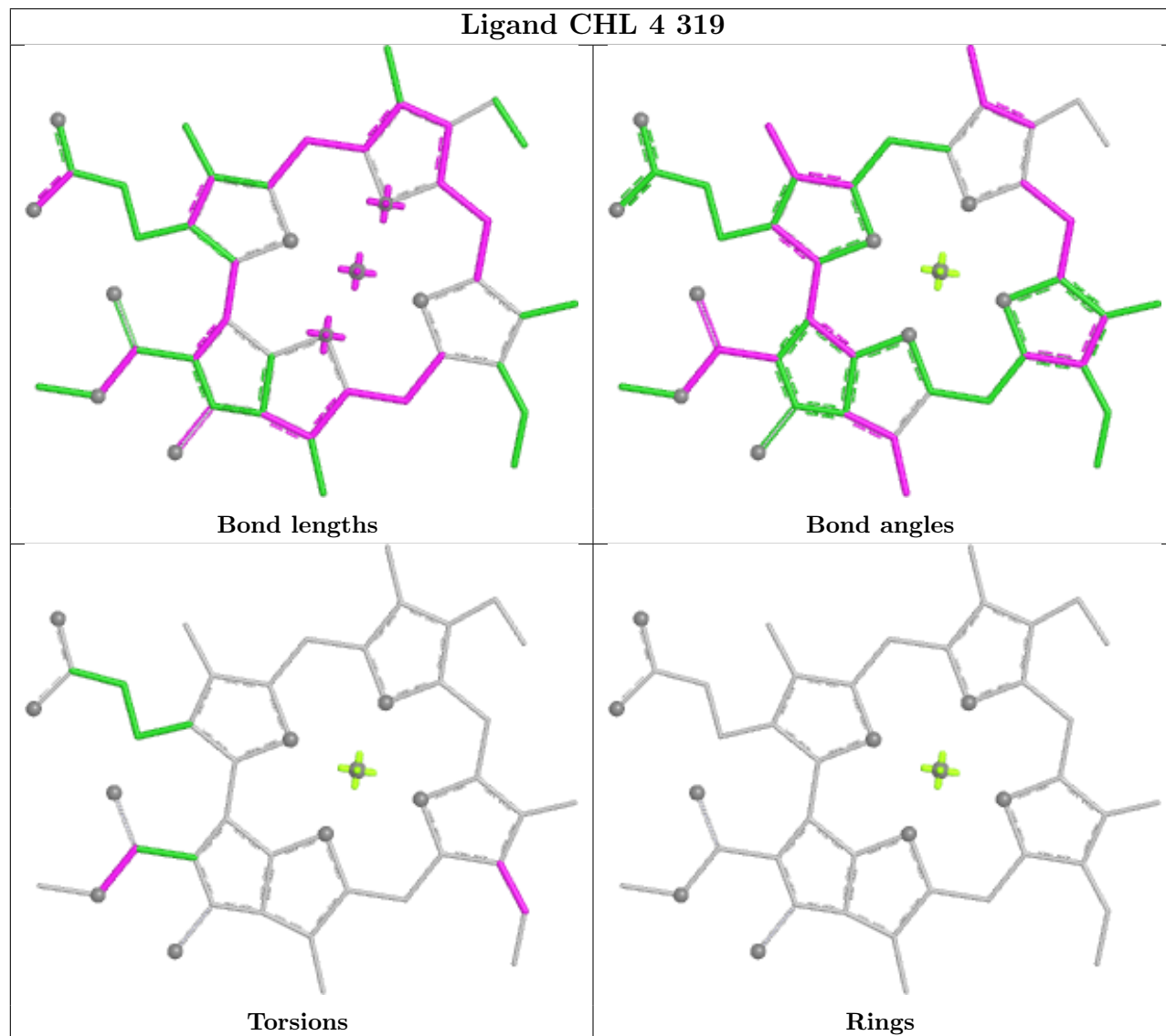


Rings

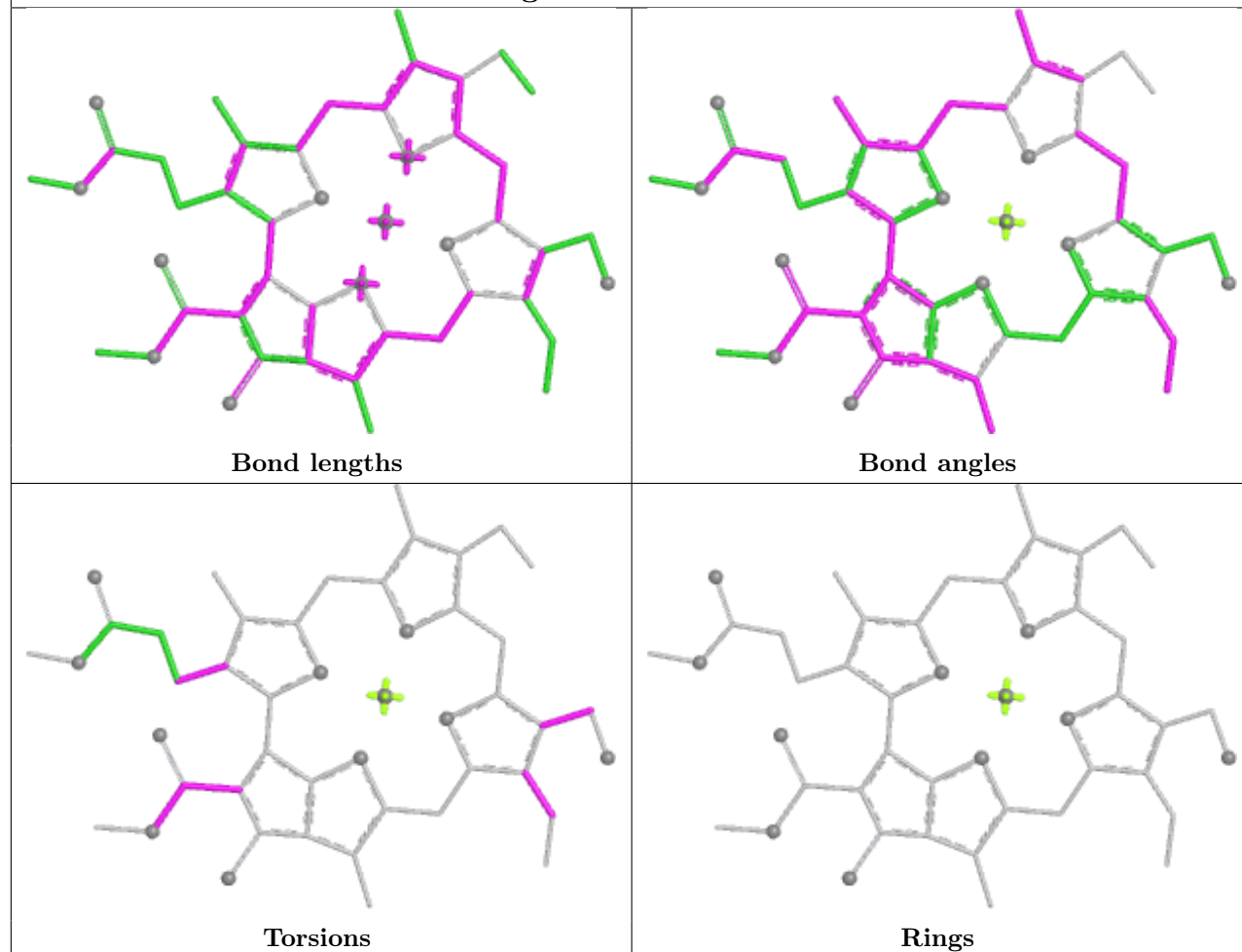
Ligand CHL 3 313



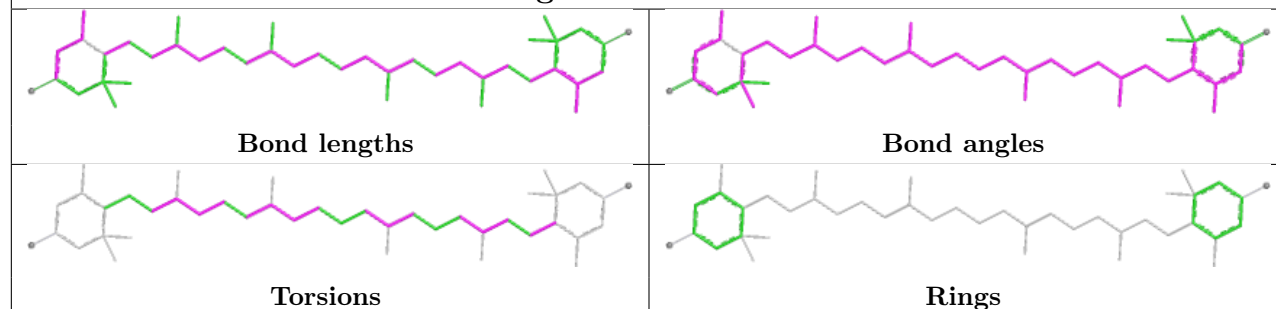
Ligand CHL 4 319



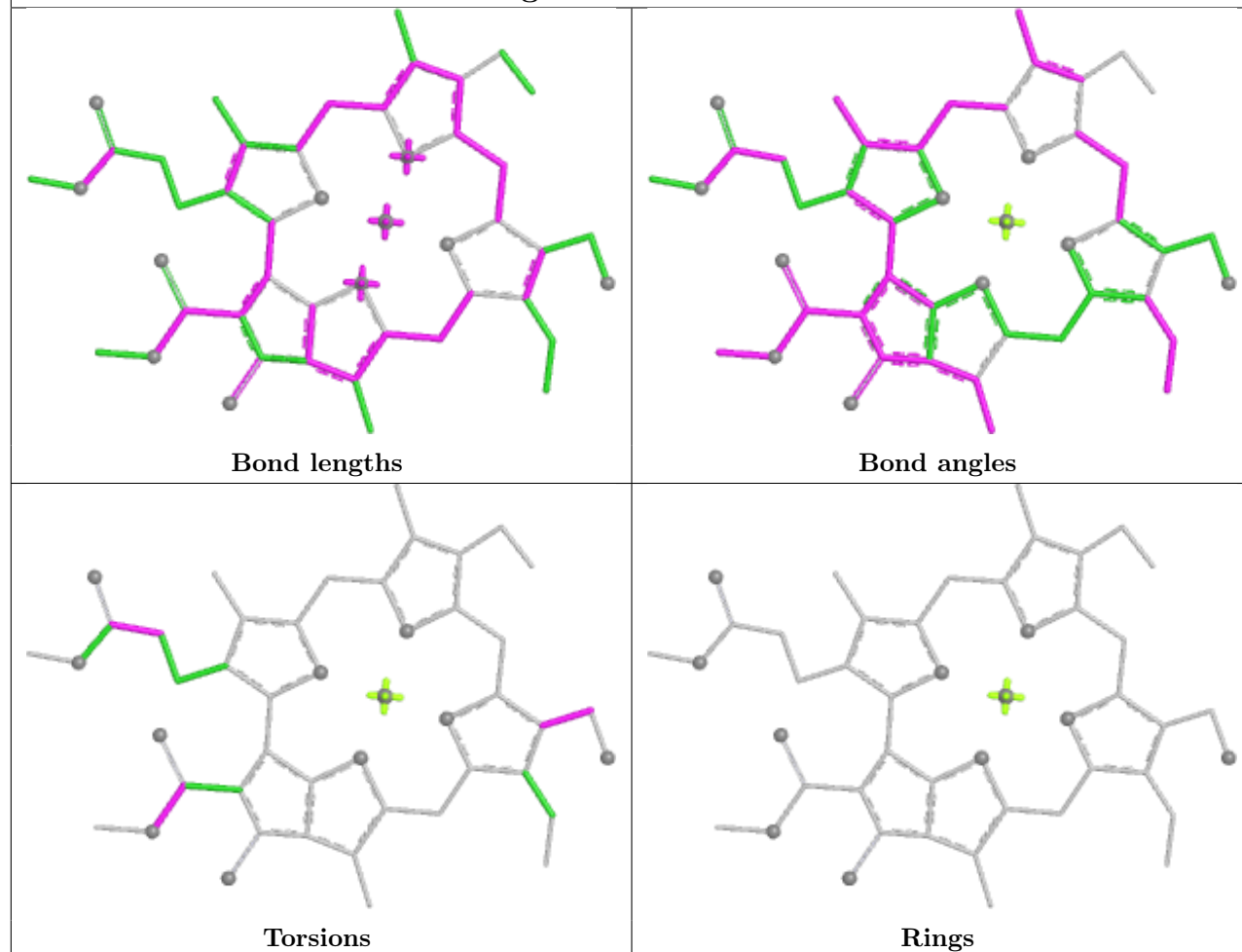
Ligand CHL 5 319



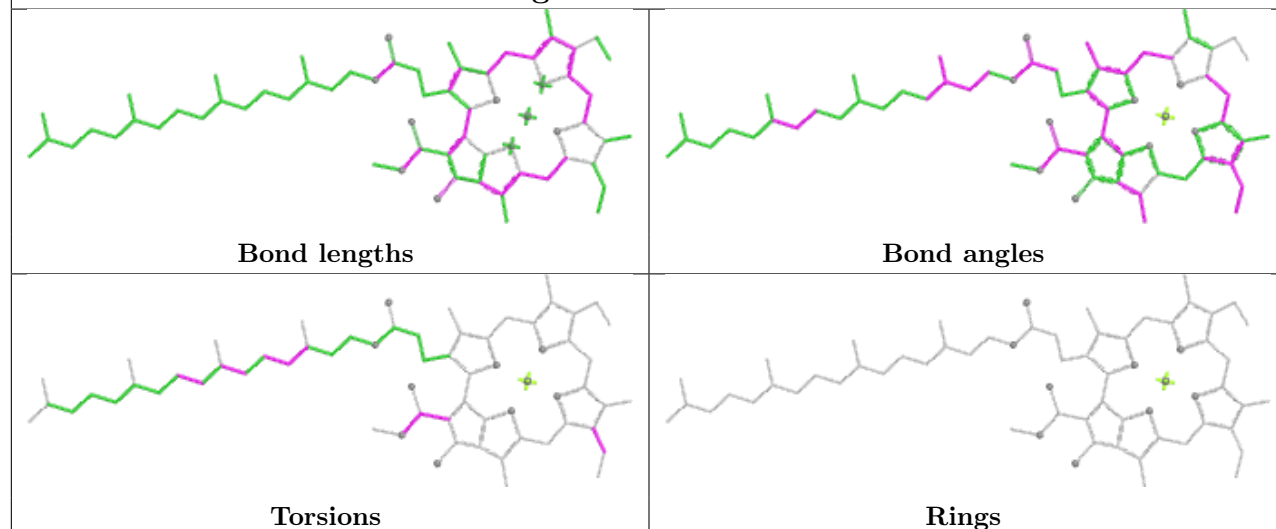
Ligand LUT 4 301



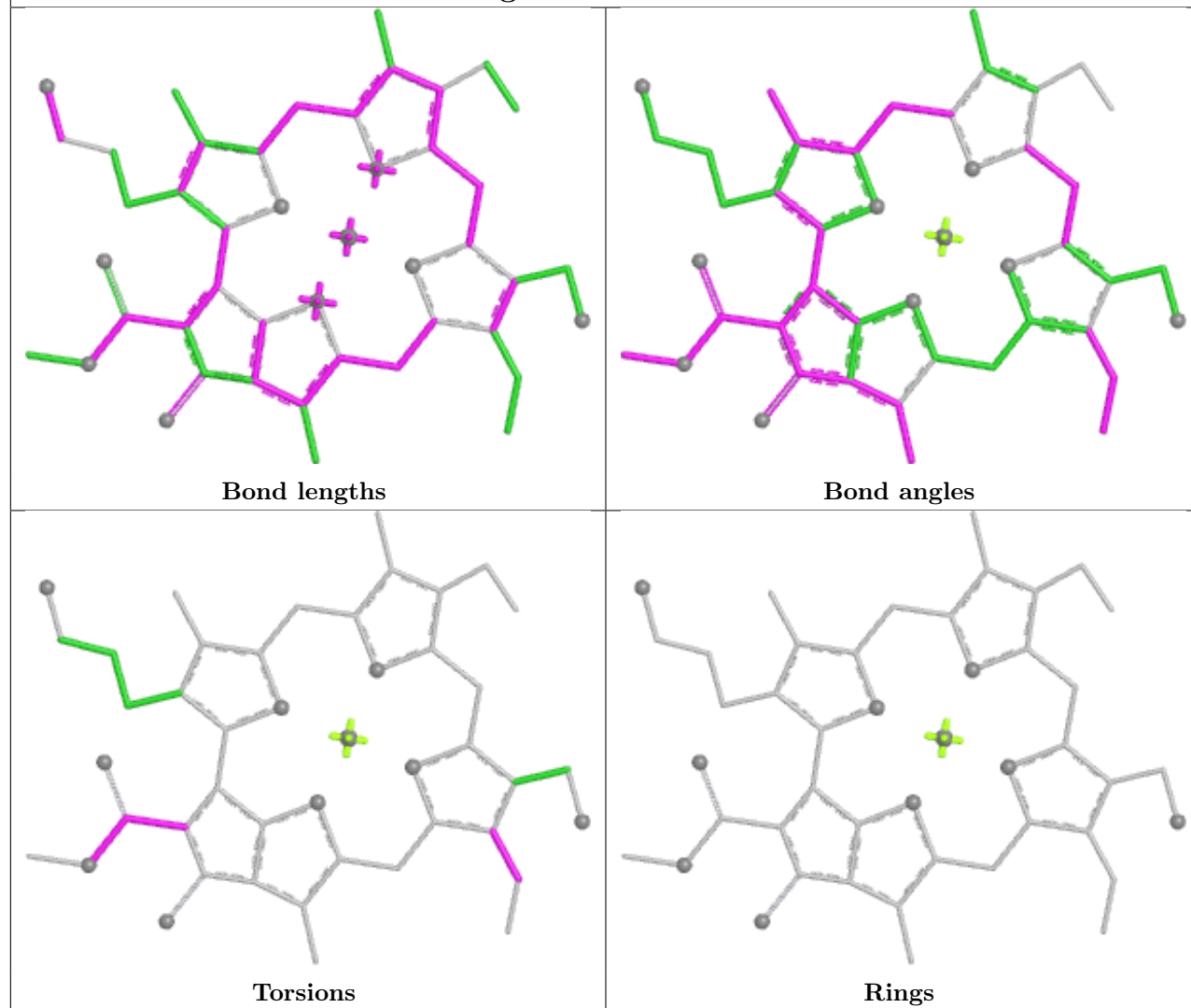
Ligand CHL 5 325



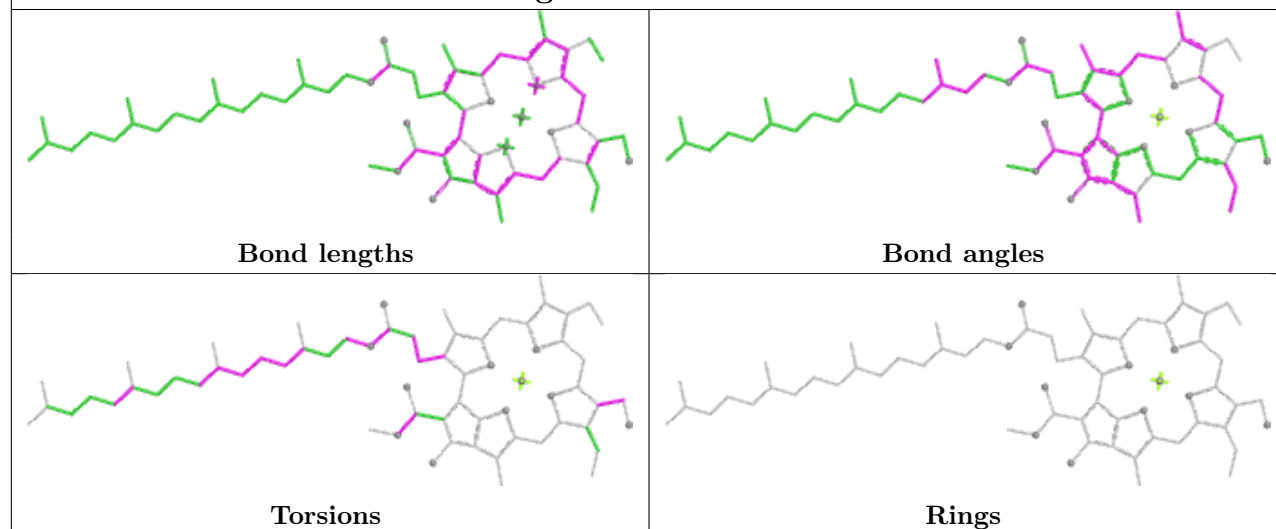
Ligand CHL B 817



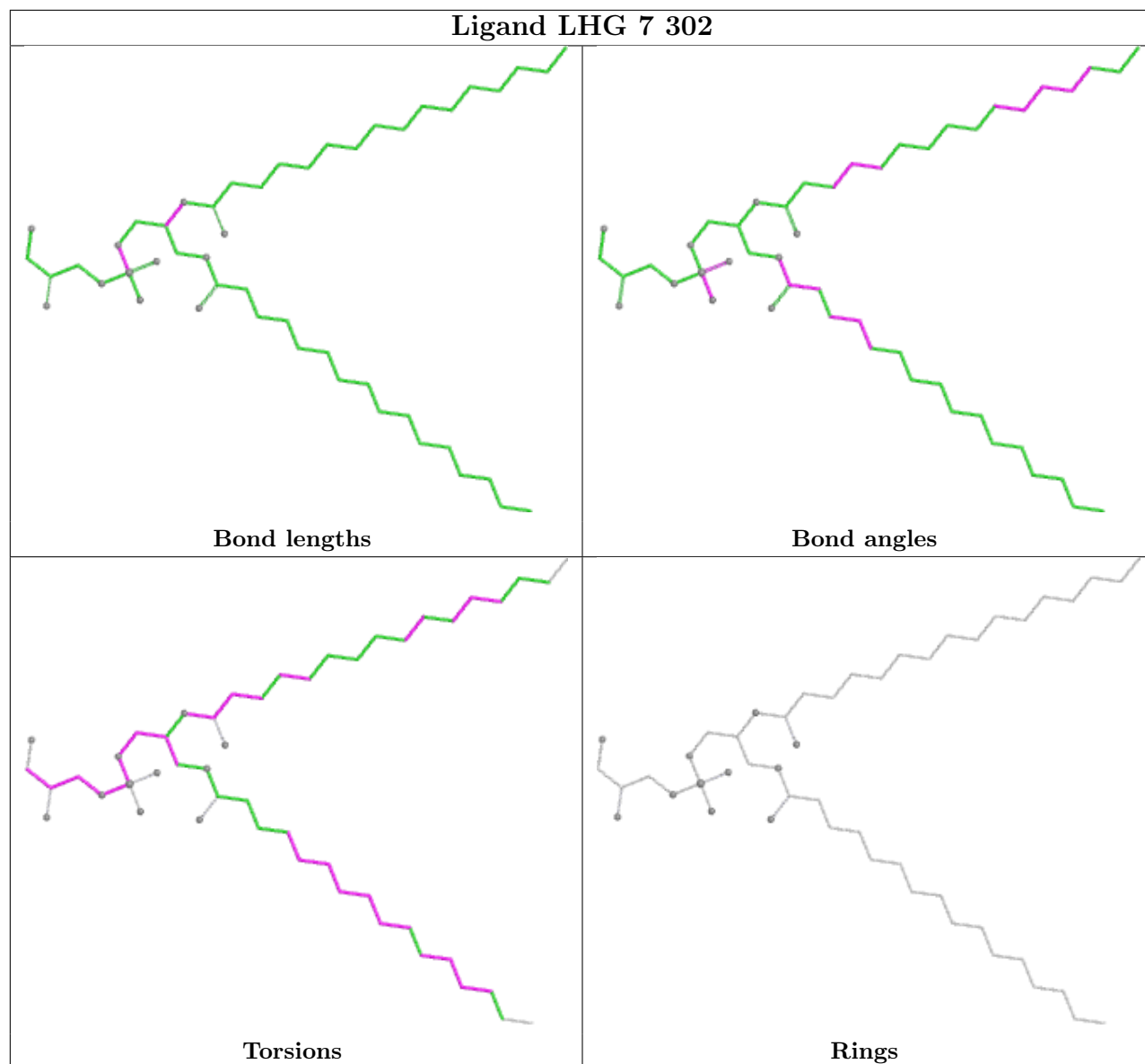
Ligand CHL 8 324



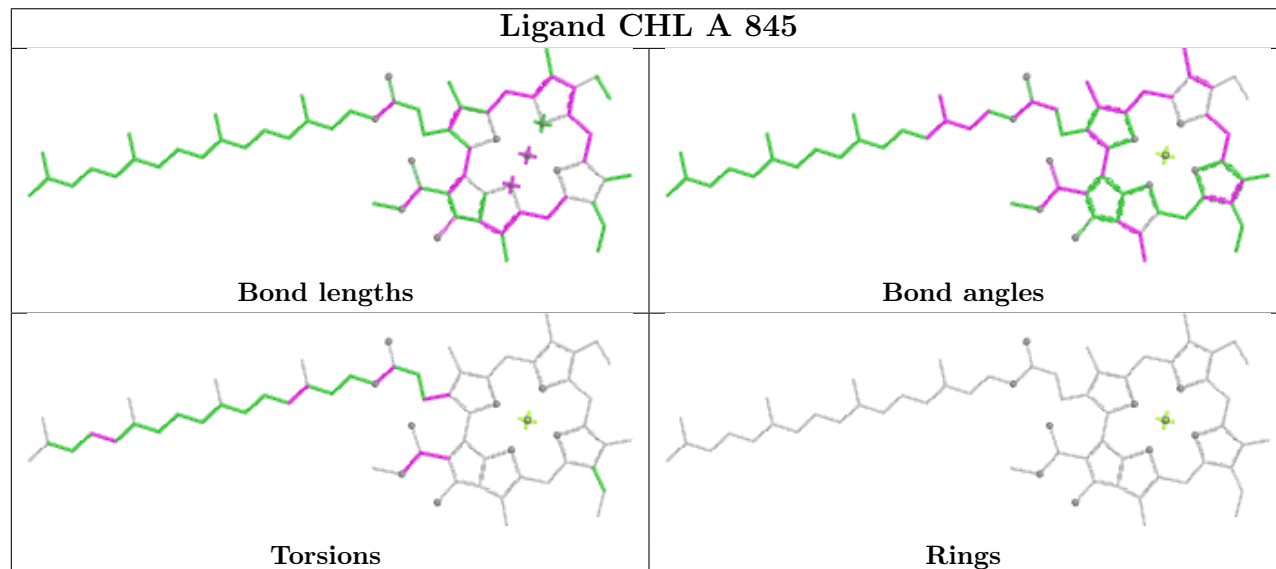
Ligand CHL 7 319



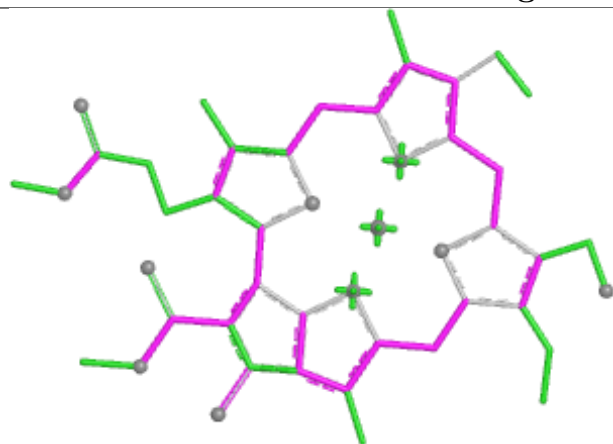
Ligand LHG 7 302



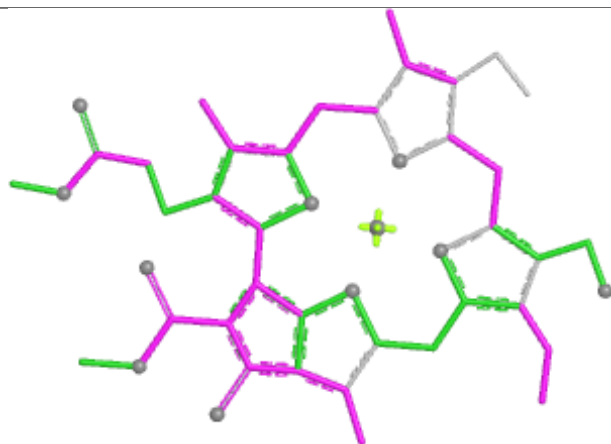
Ligand CHL A 845



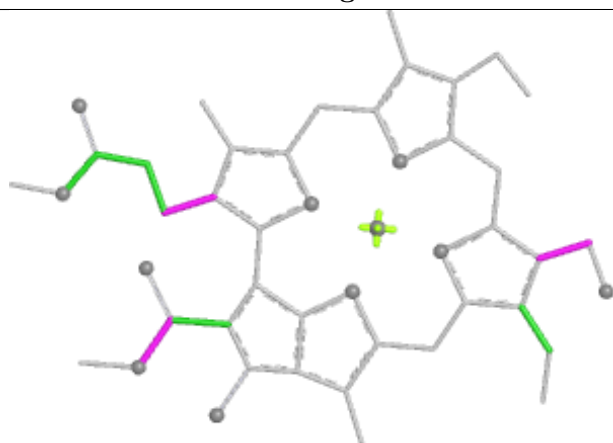
Ligand CHL 4 309



Bond lengths



Bond angles

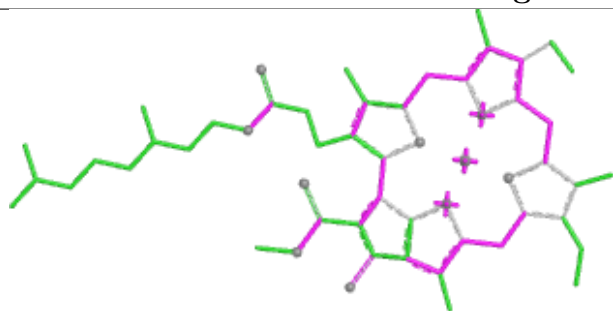


Torsions

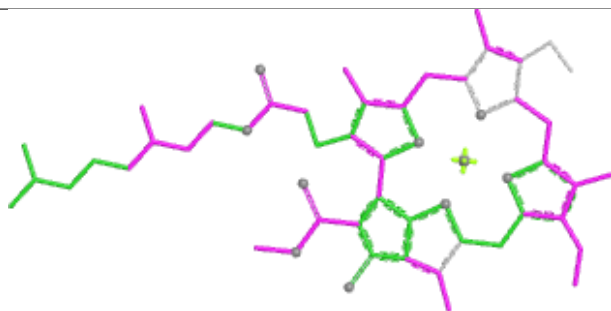


Rings

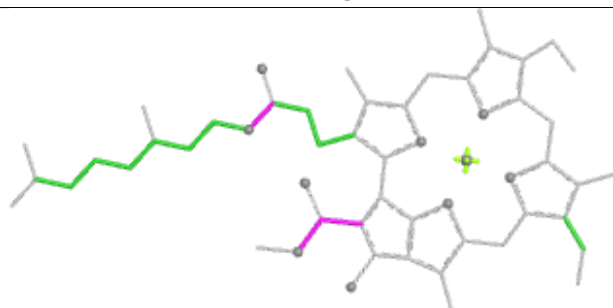
Ligand CHL A 822



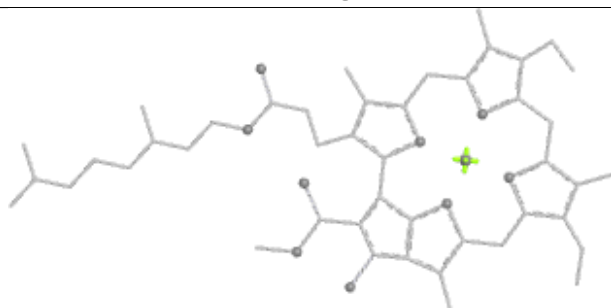
Bond lengths



Bond angles

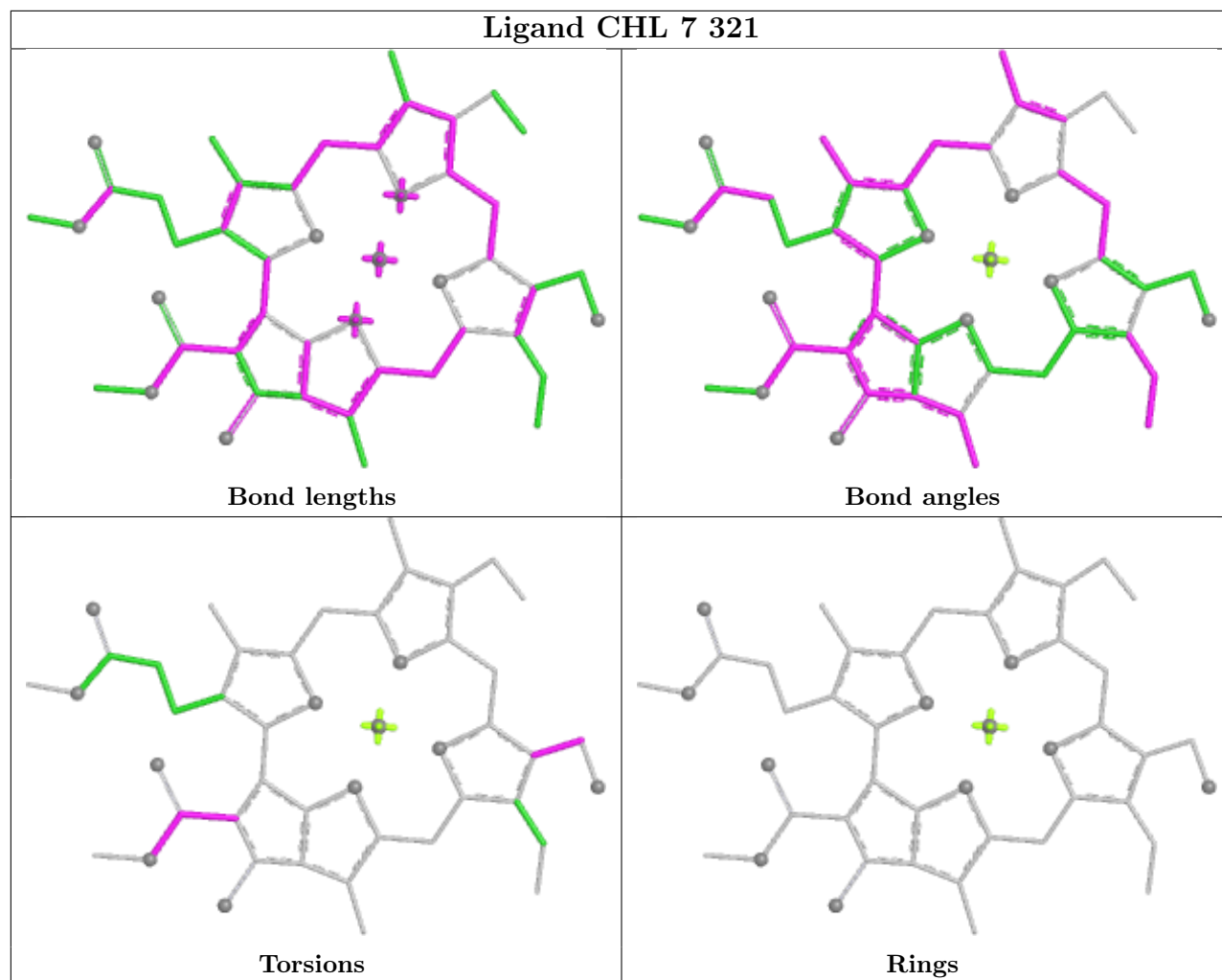


Torsions

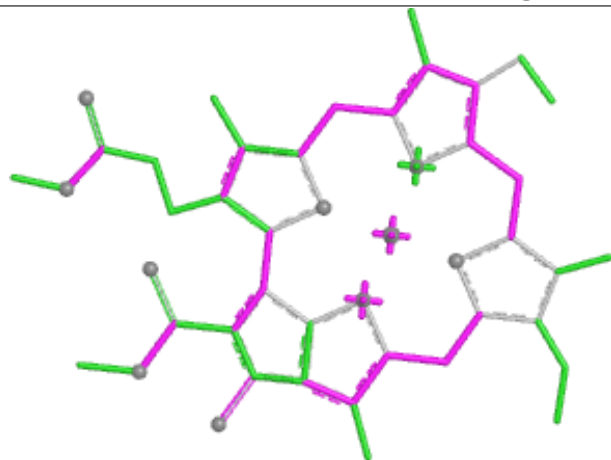


Rings

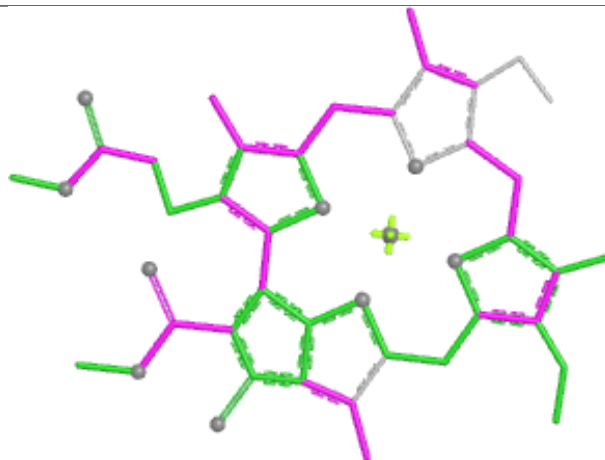
Ligand CHL 7 321



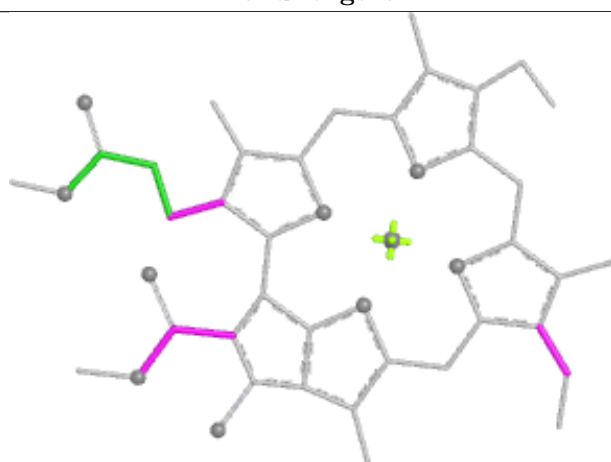
Ligand CHL 7 324



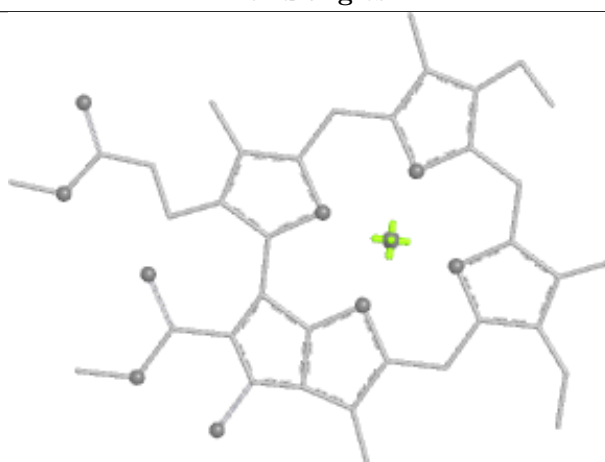
Bond lengths



Bond angles

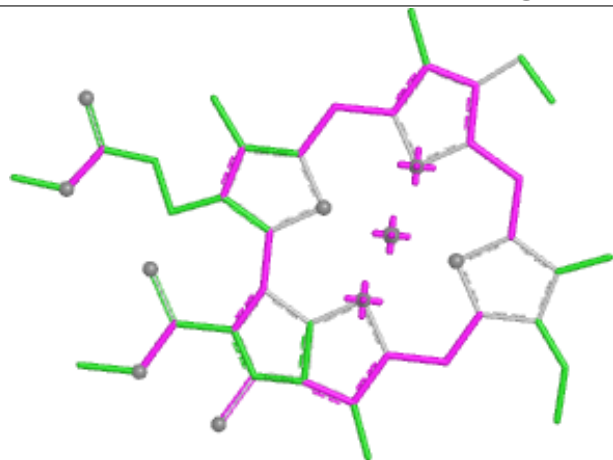


Torsions

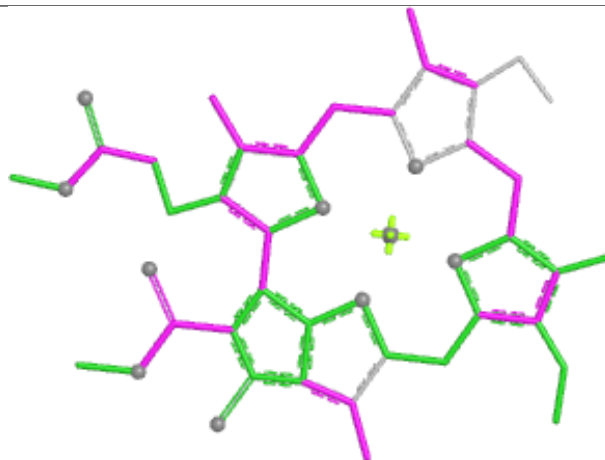


Rings

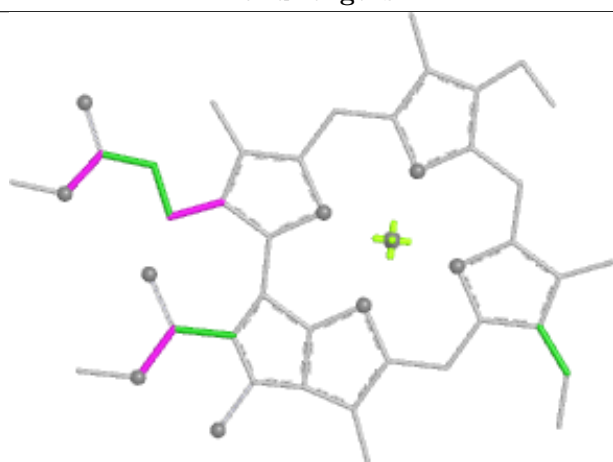
Ligand CHL 8 318



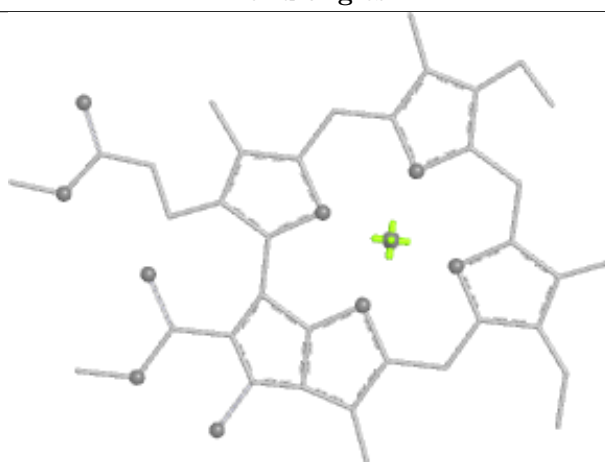
Bond lengths



Bond angles

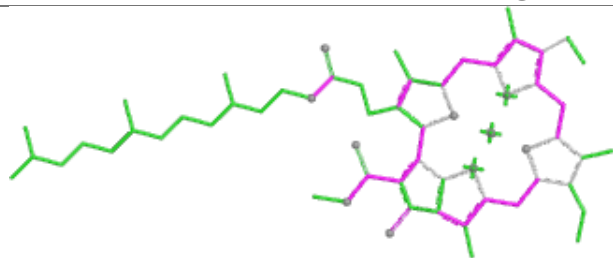


Torsions

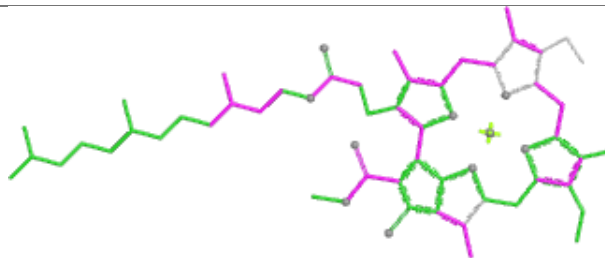


Rings

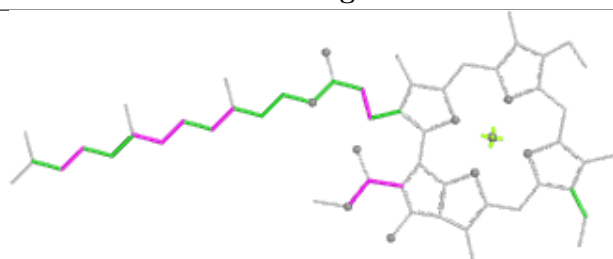
Ligand CHL A 838



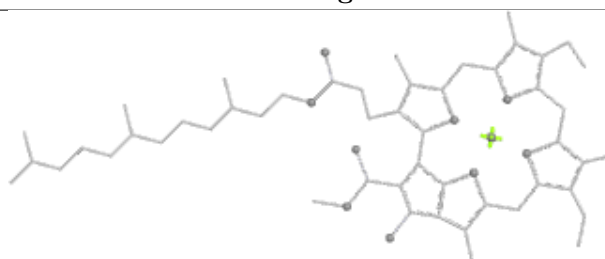
Bond lengths



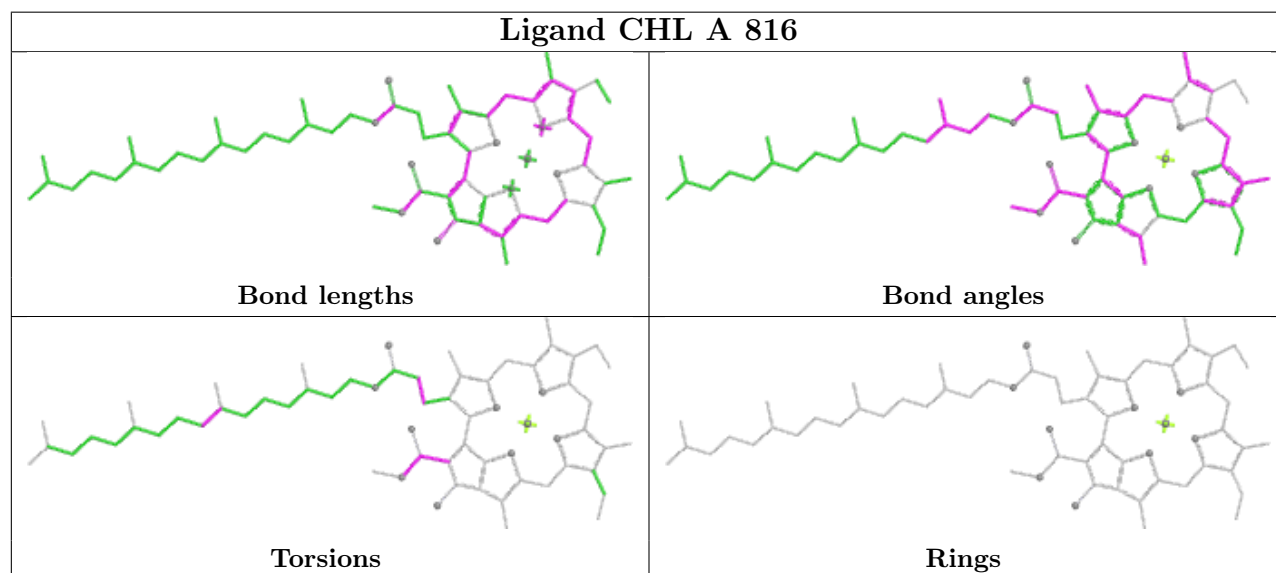
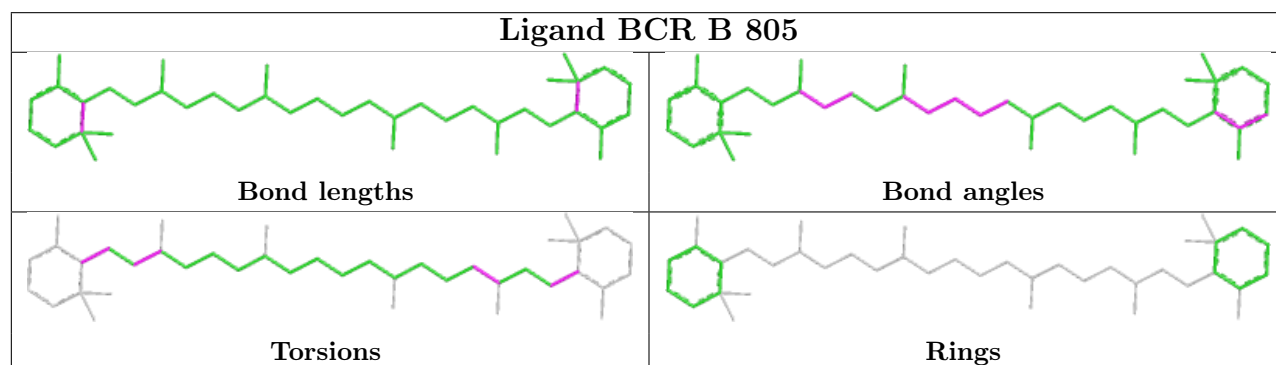
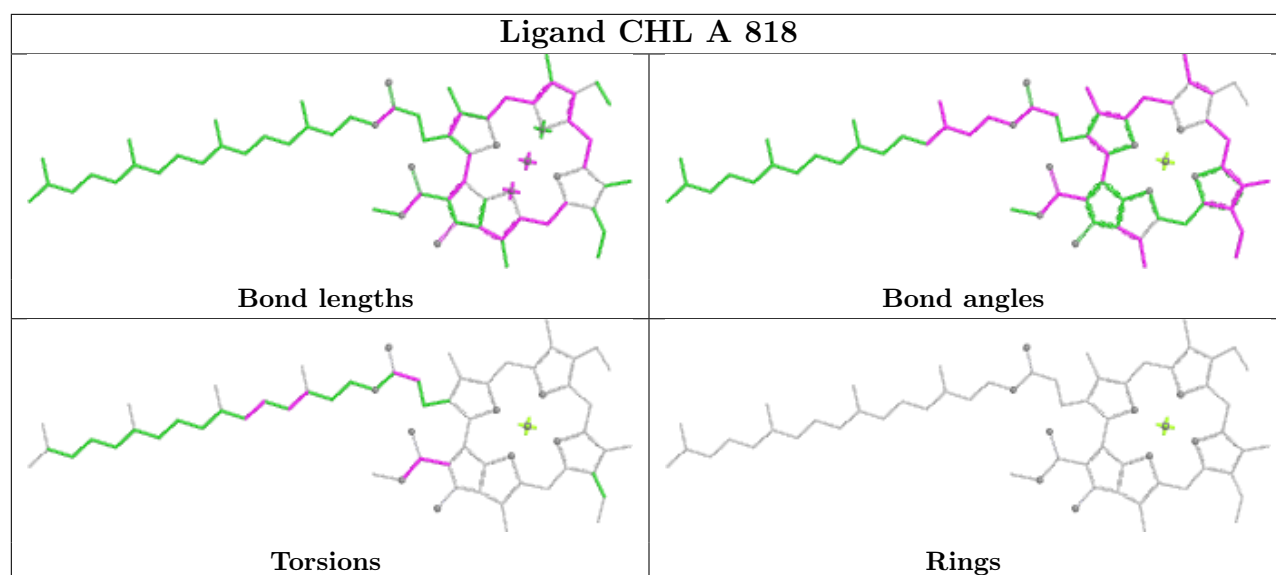
Bond angles

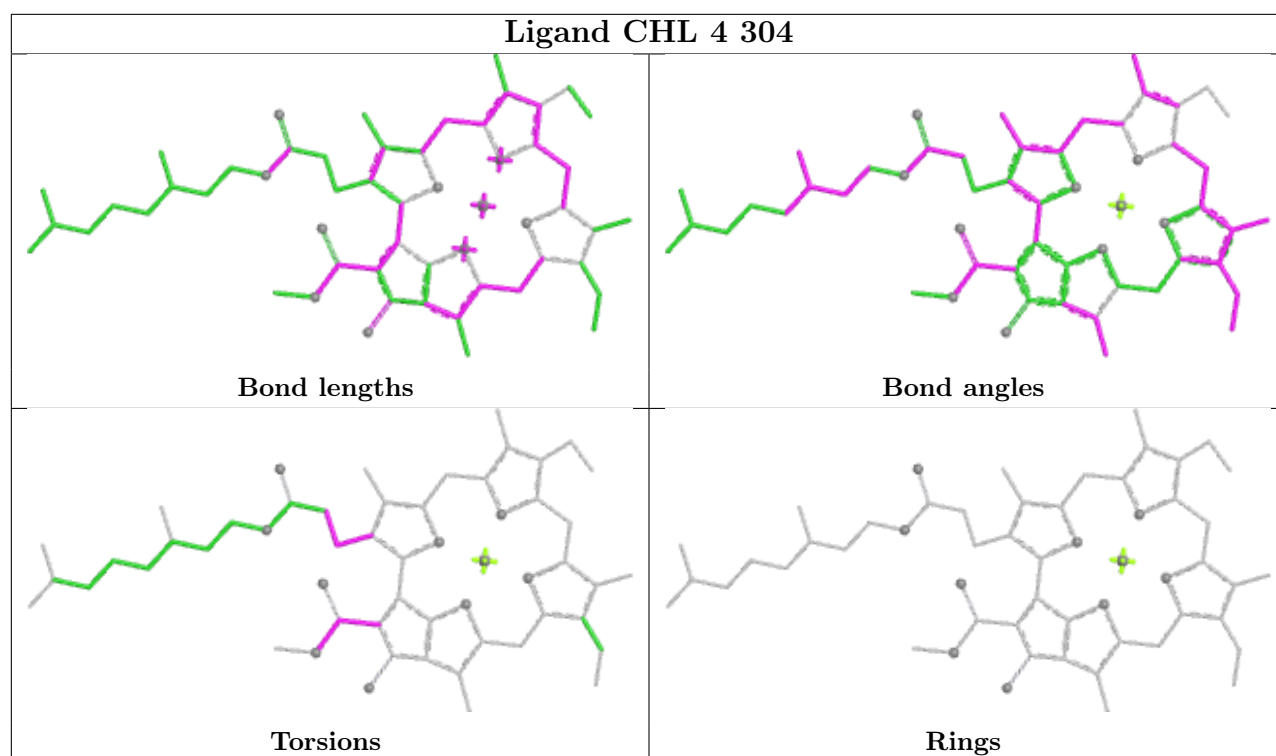


Torsions

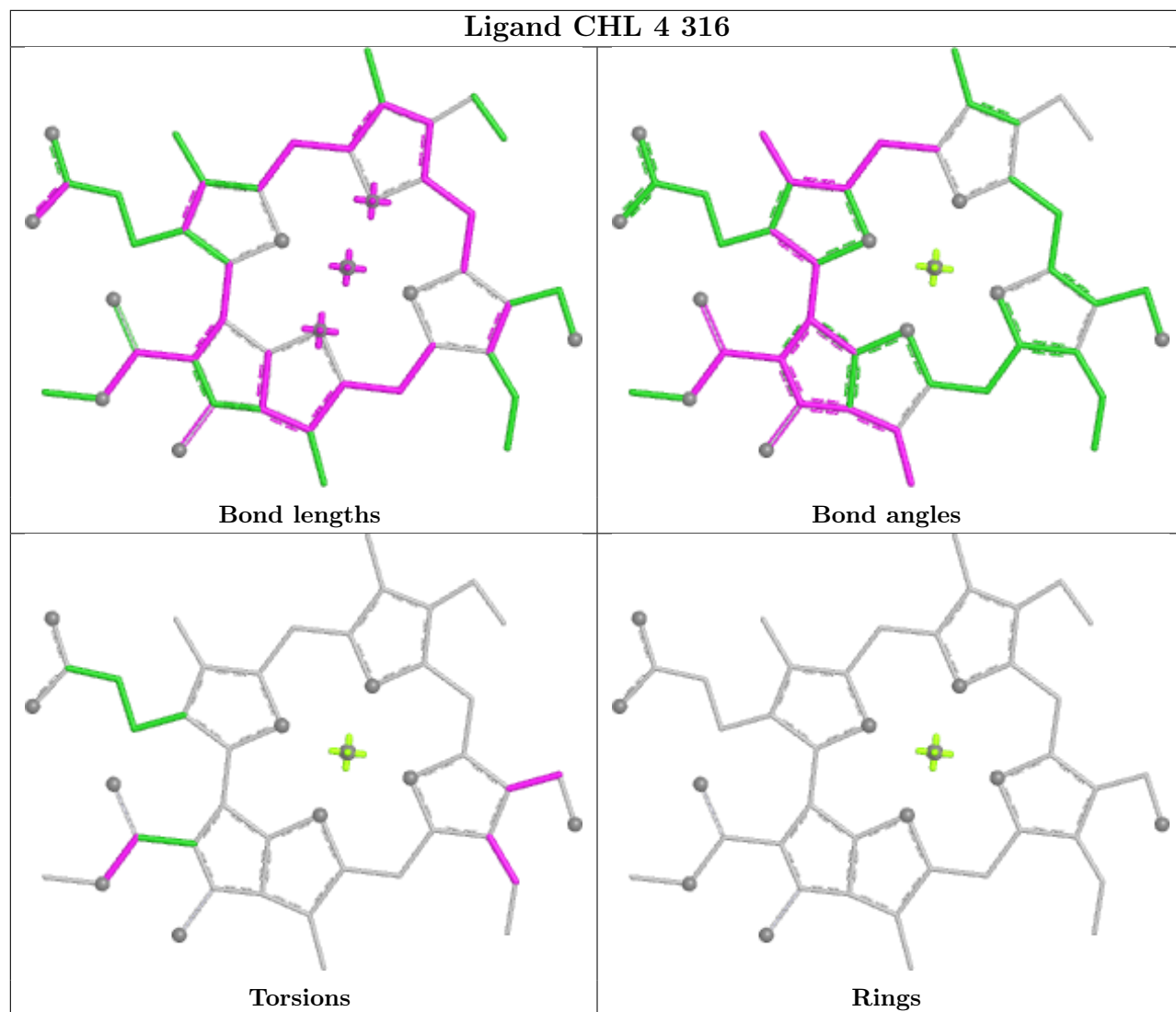


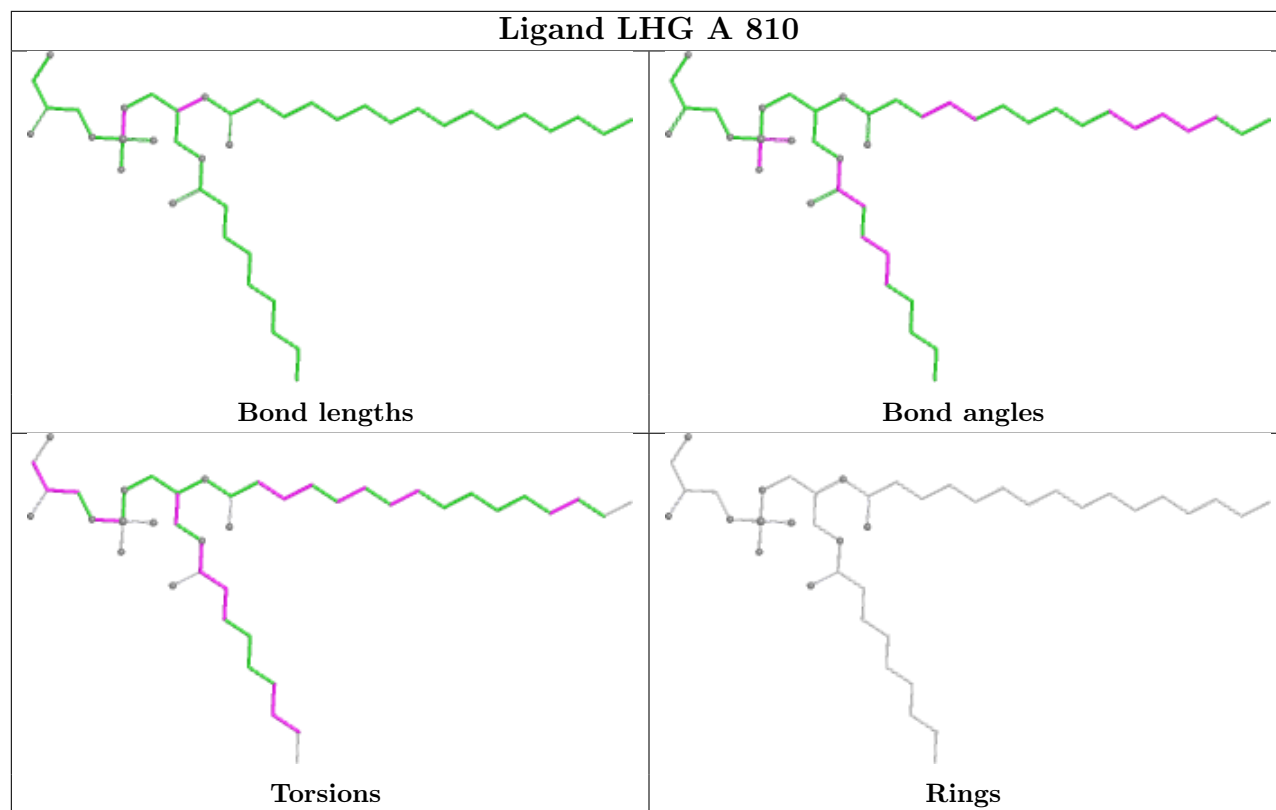
Rings



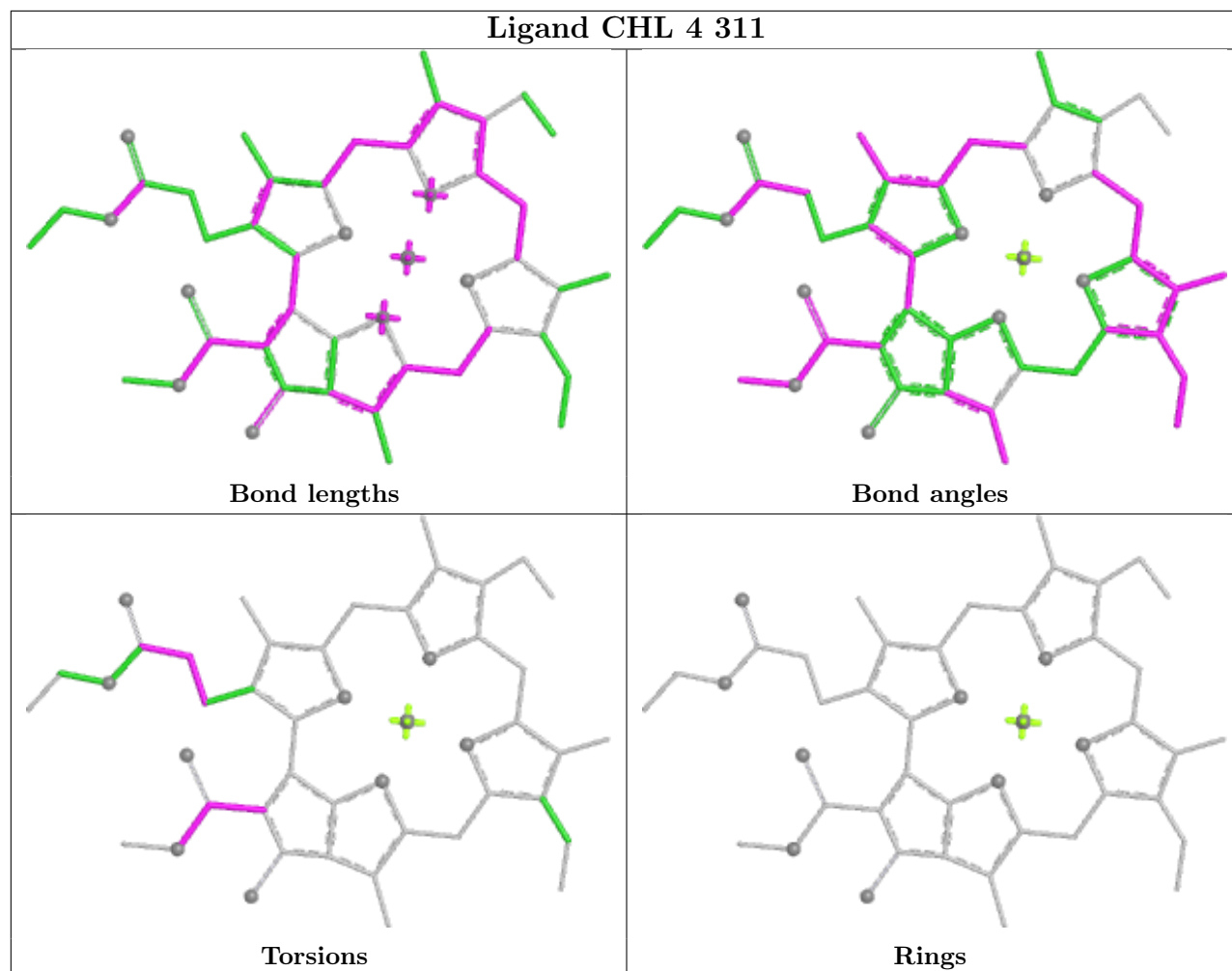


Ligand CHL 4 316

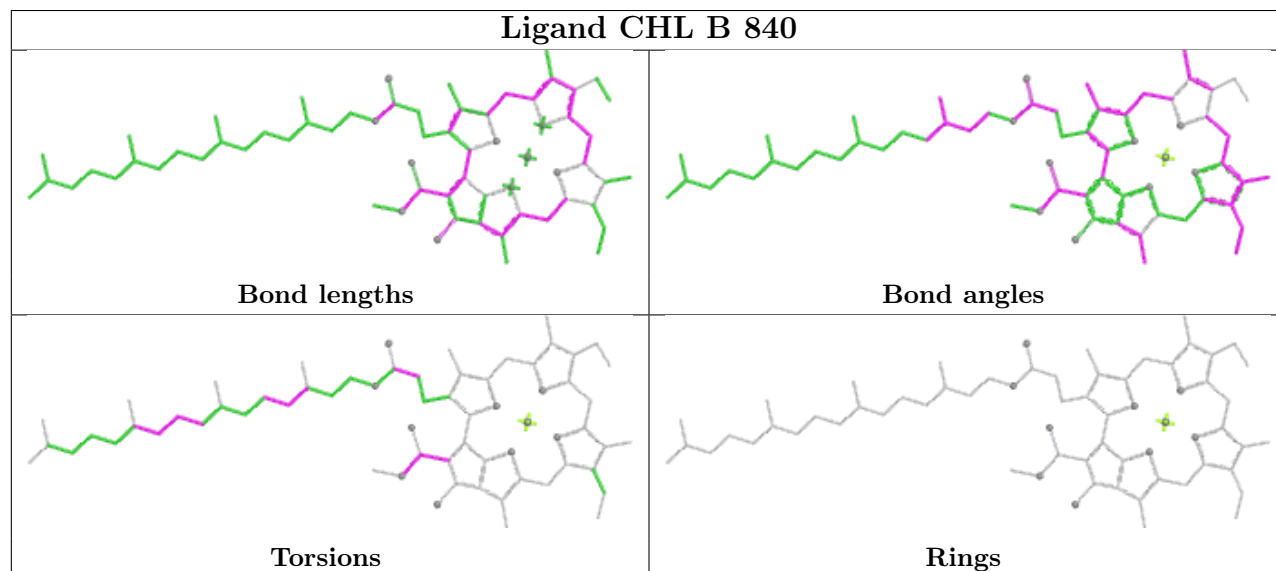




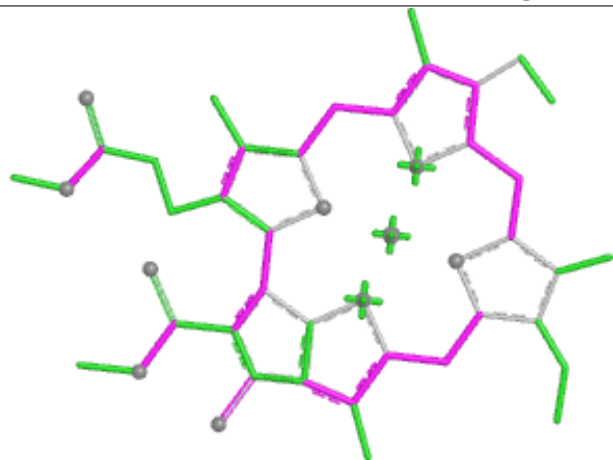
Ligand CHL 4 311



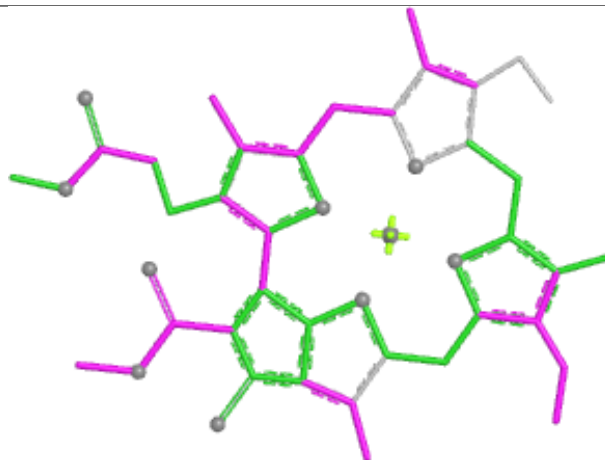
Ligand CHL B 840



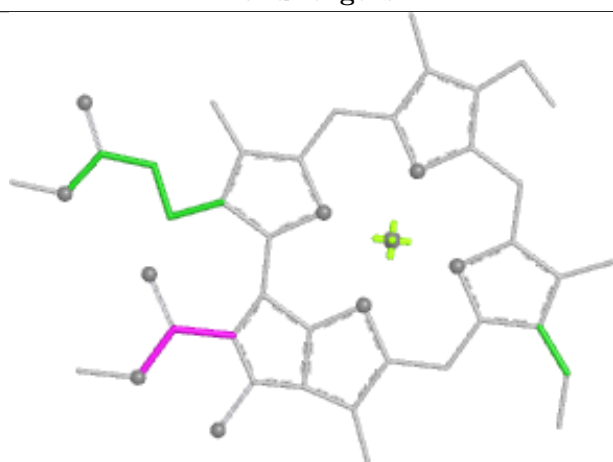
Ligand CHL 8 326



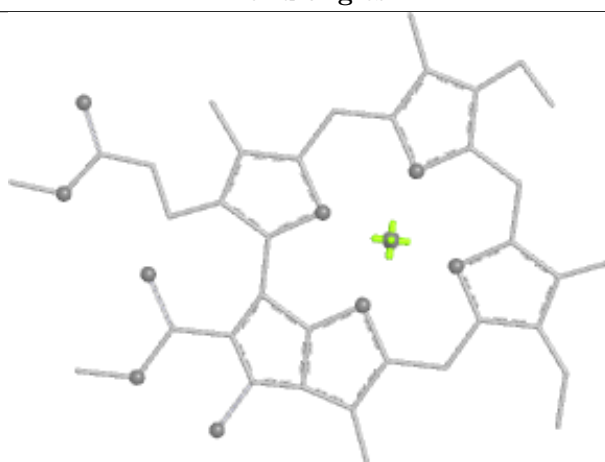
Bond lengths



Bond angles

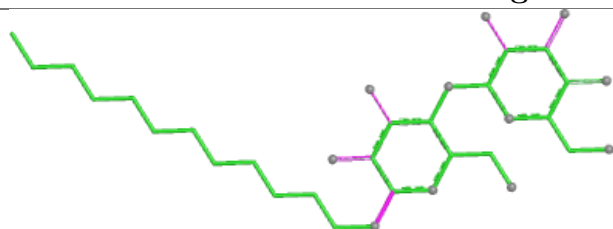


Torsions

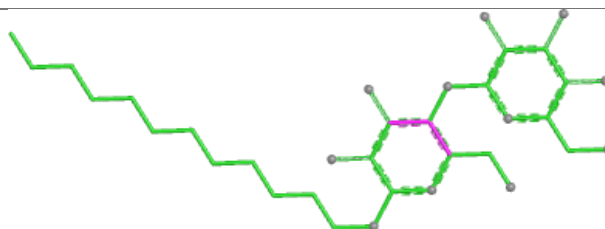


Rings

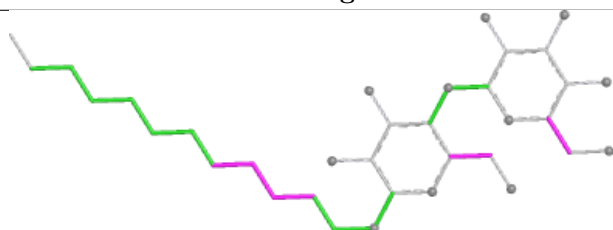
Ligand LMT A 809



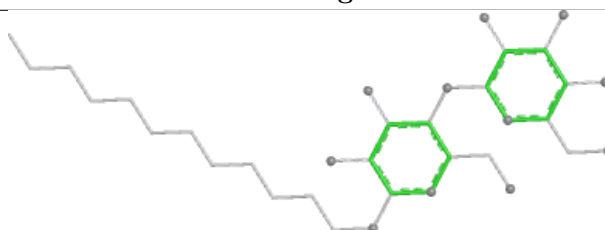
Bond lengths



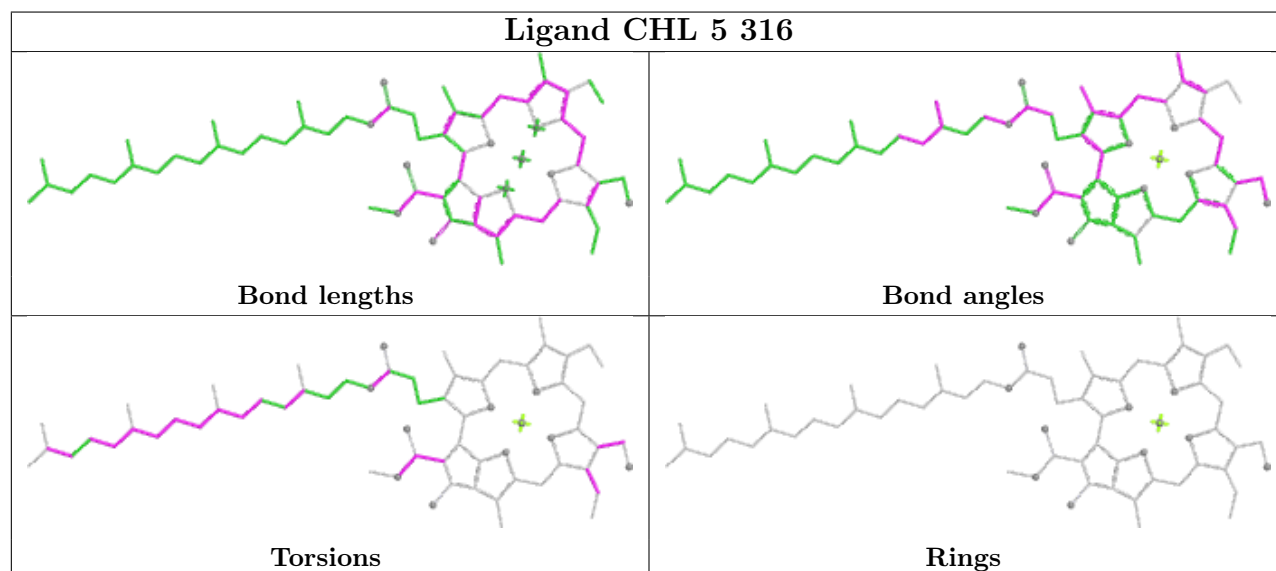
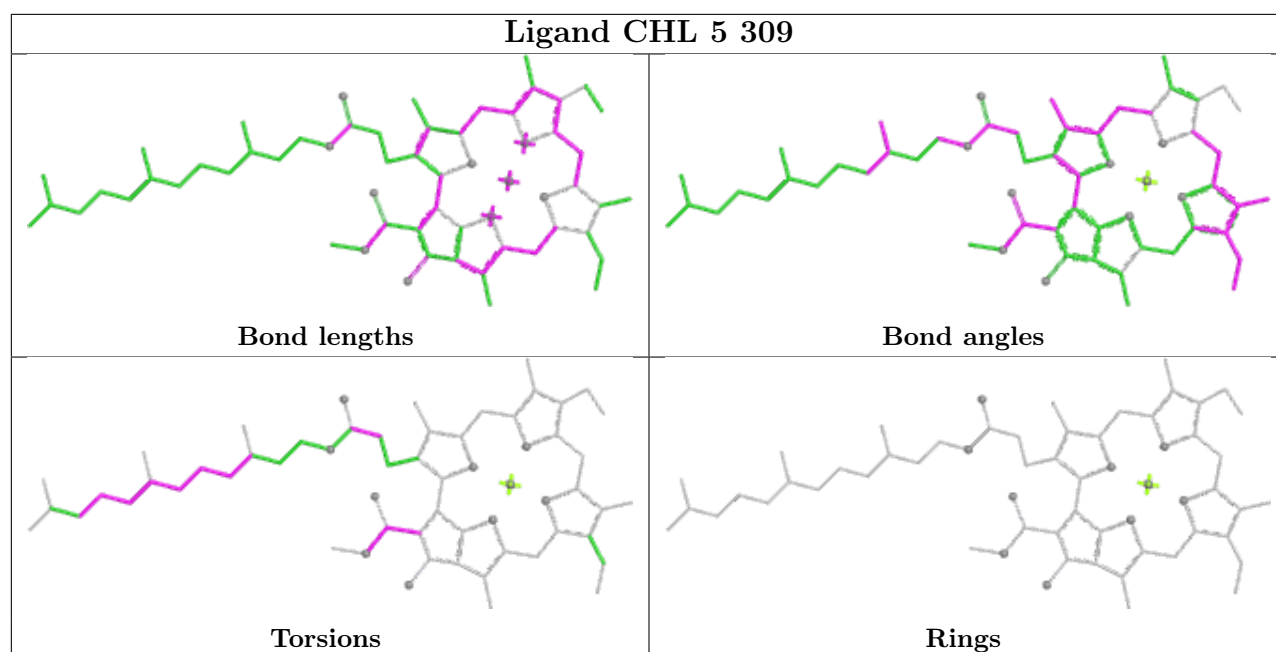
Bond angles

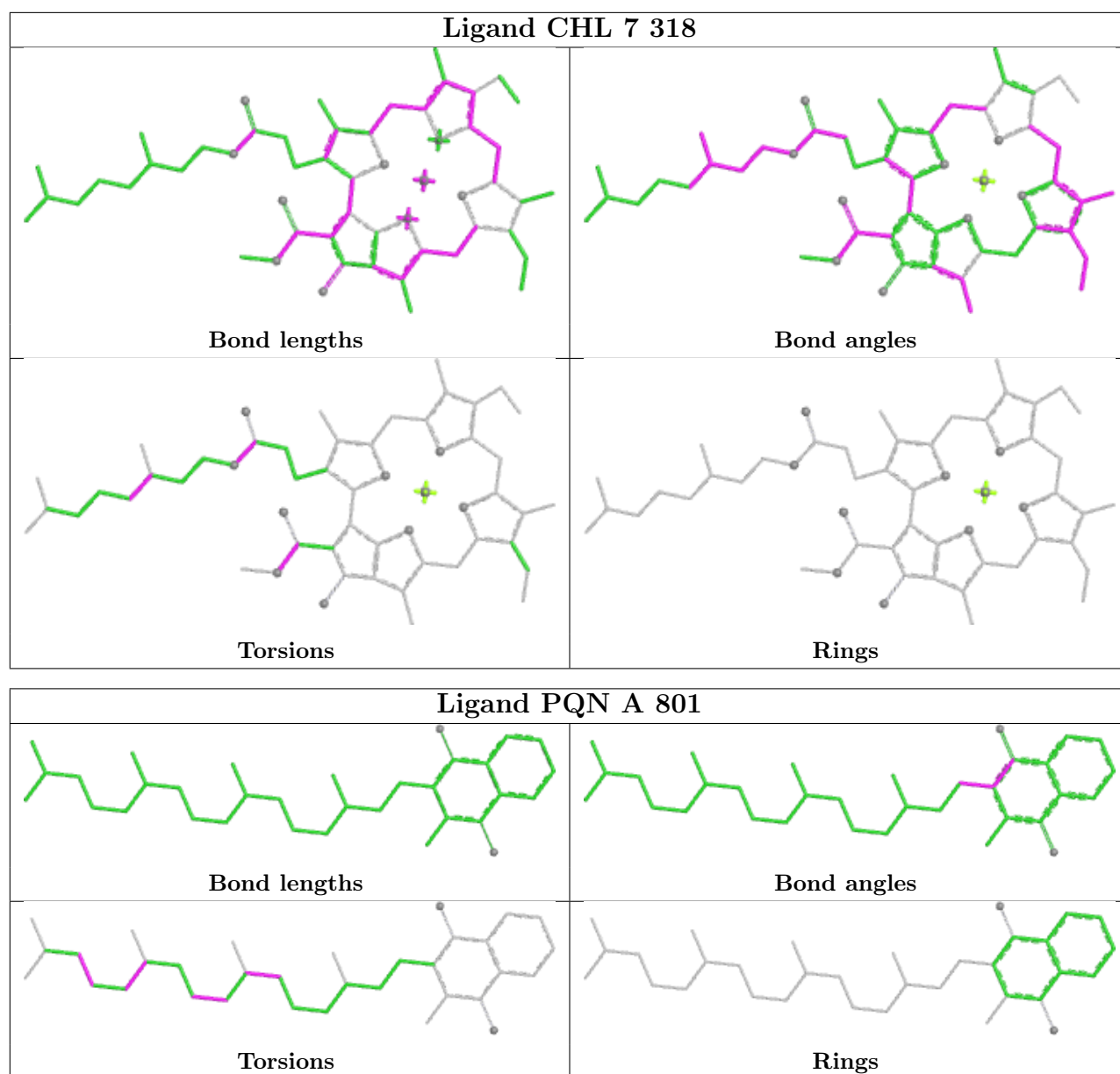


Torsions

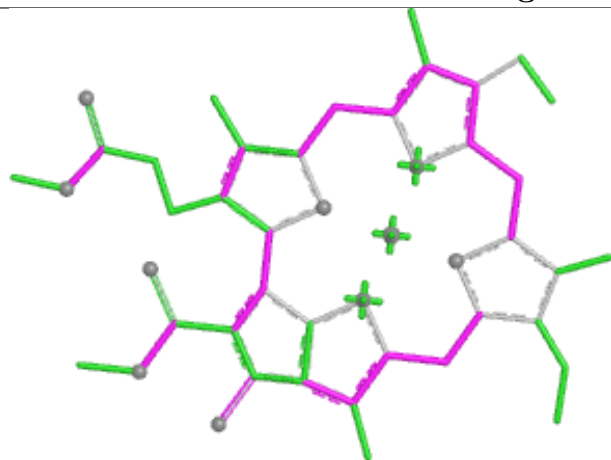


Rings

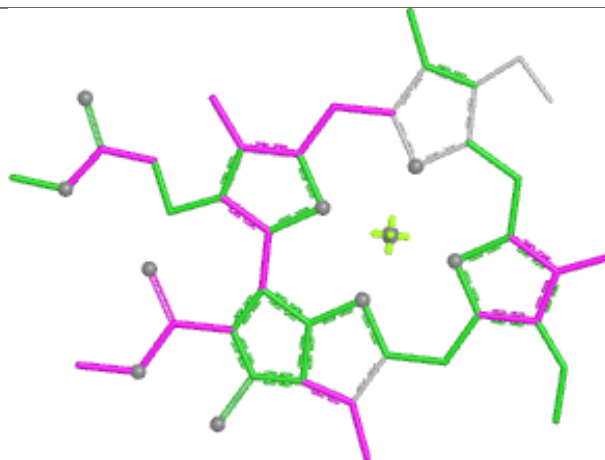




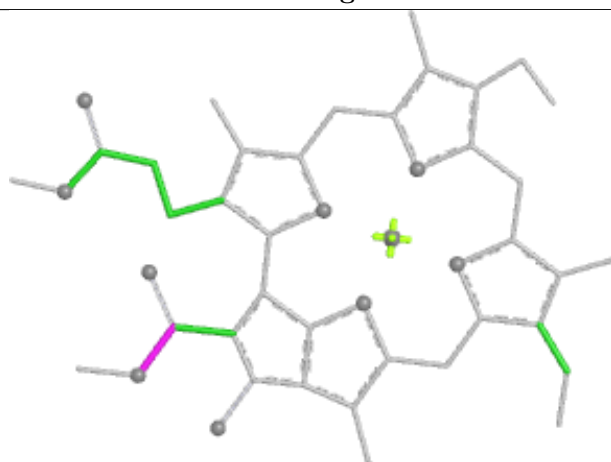
Ligand CHL 5 308



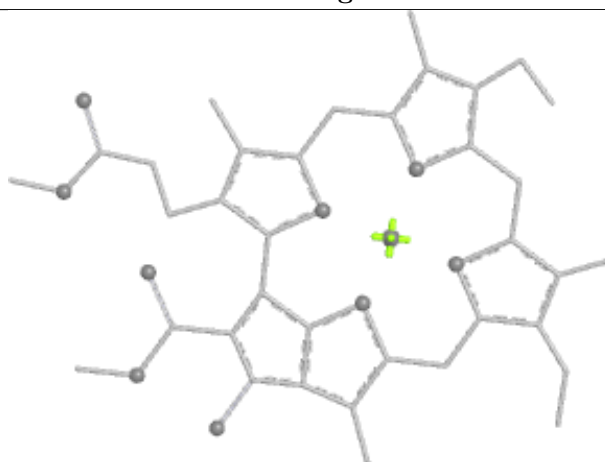
Bond lengths



Bond angles

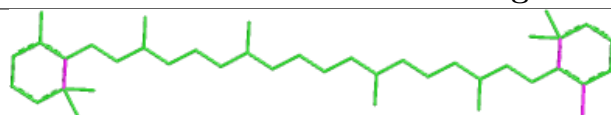


Torsions

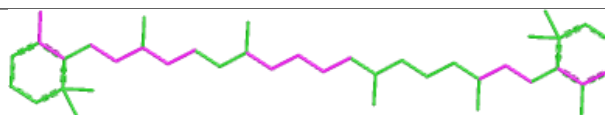


Rings

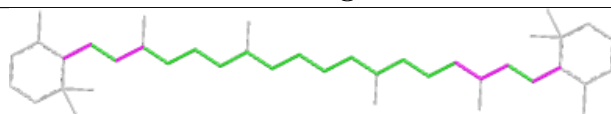
Ligand BCR K 202



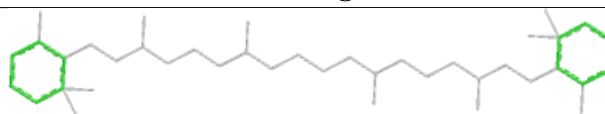
Bond lengths



Bond angles

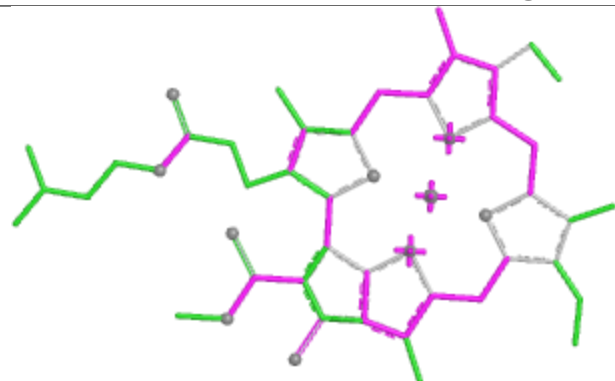


Torsions

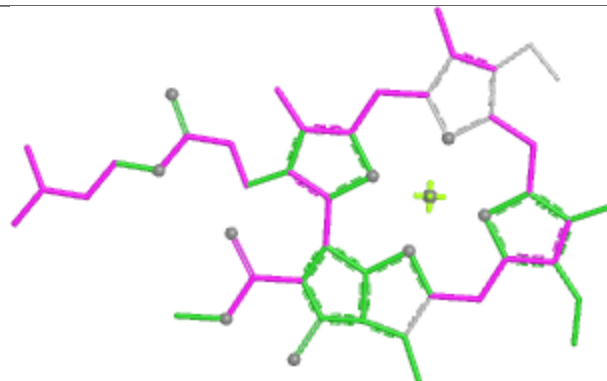


Rings

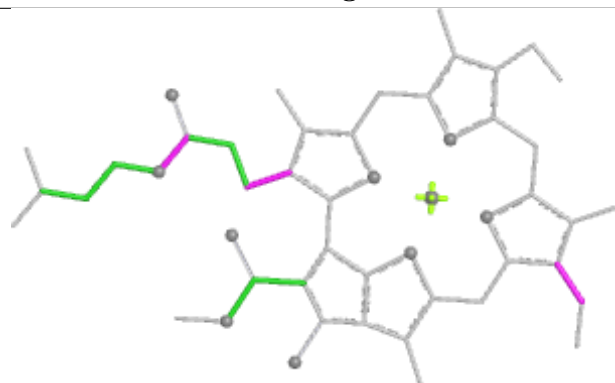
Ligand CHL 8 323



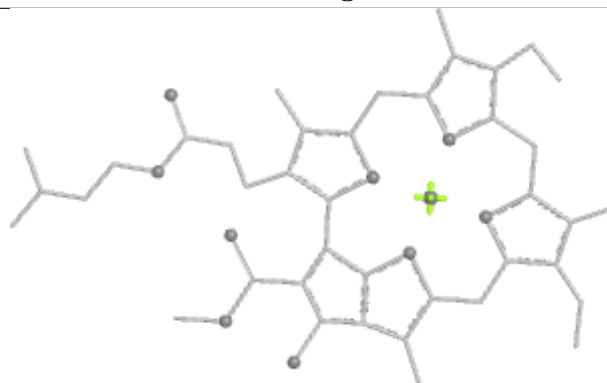
Bond lengths



Bond angles

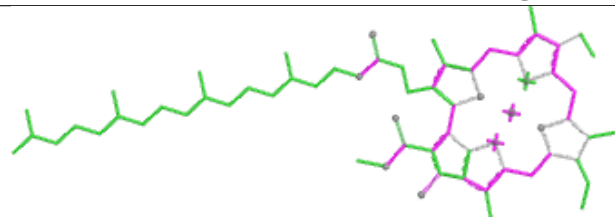


Torsions

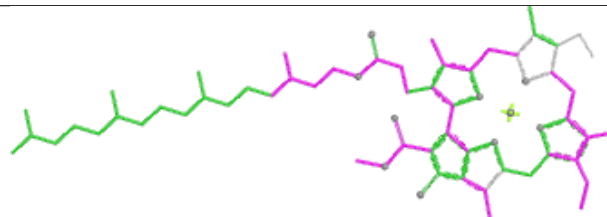


Rings

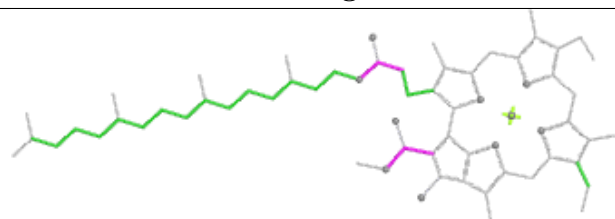
Ligand CHL B 811



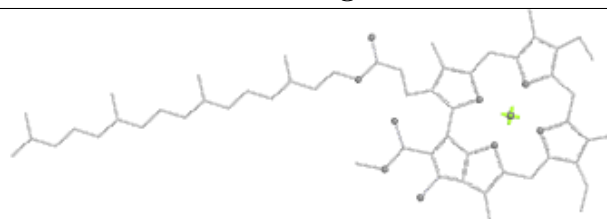
Bond lengths



Bond angles

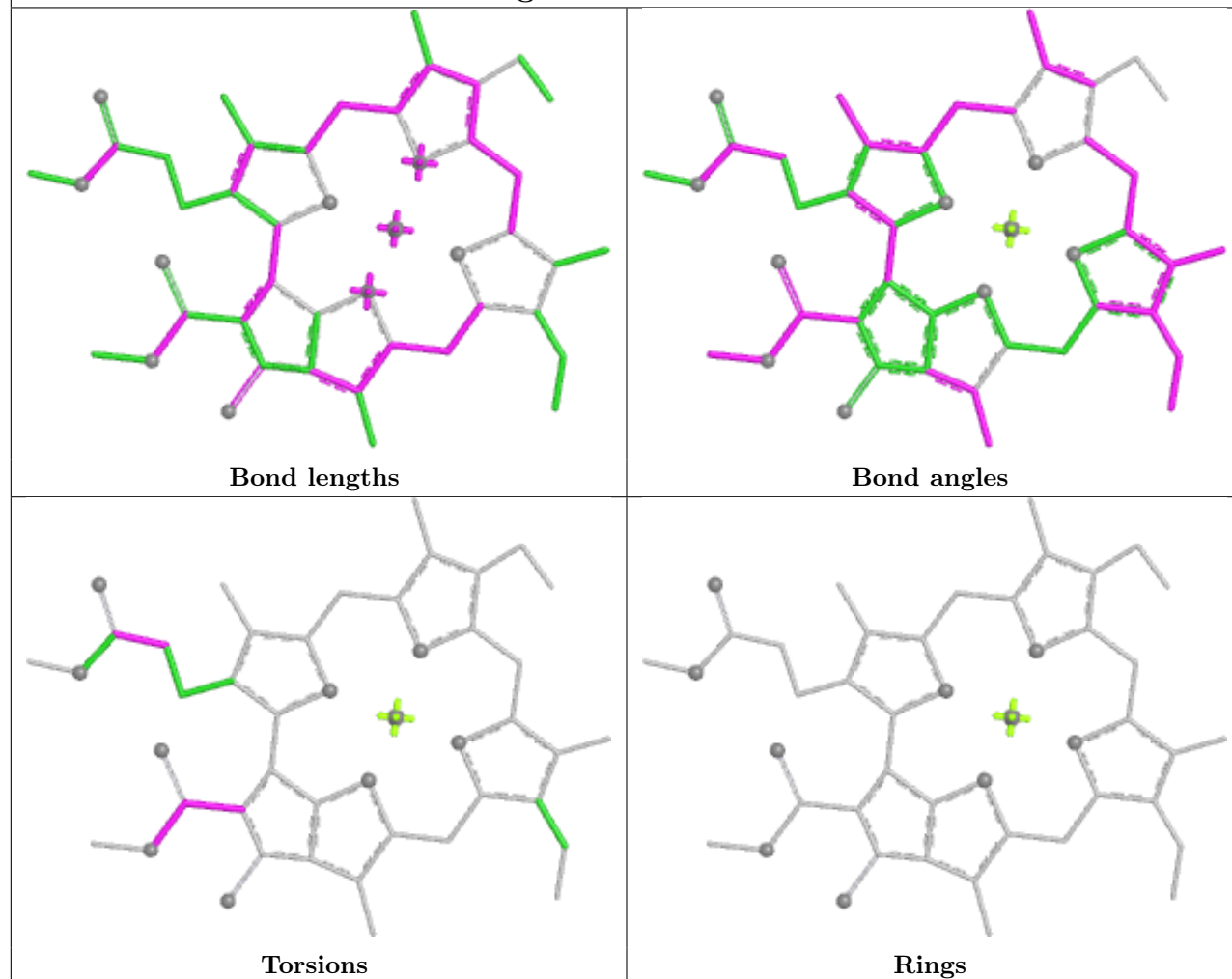


Torsions

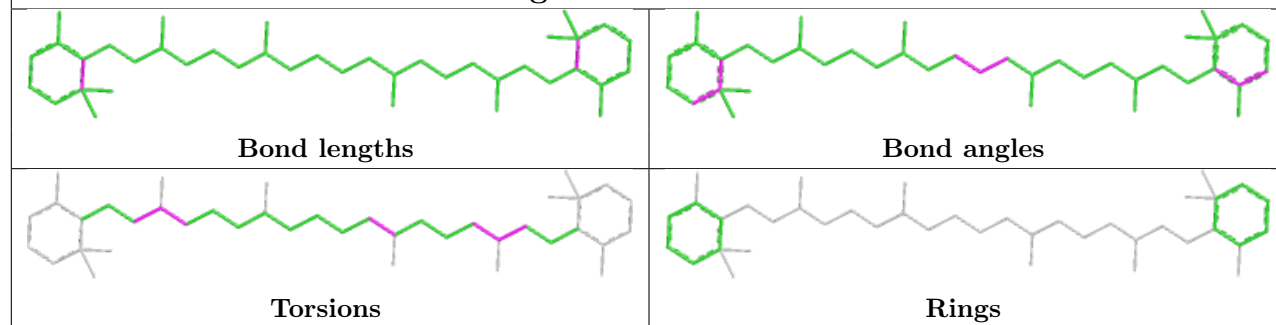


Rings

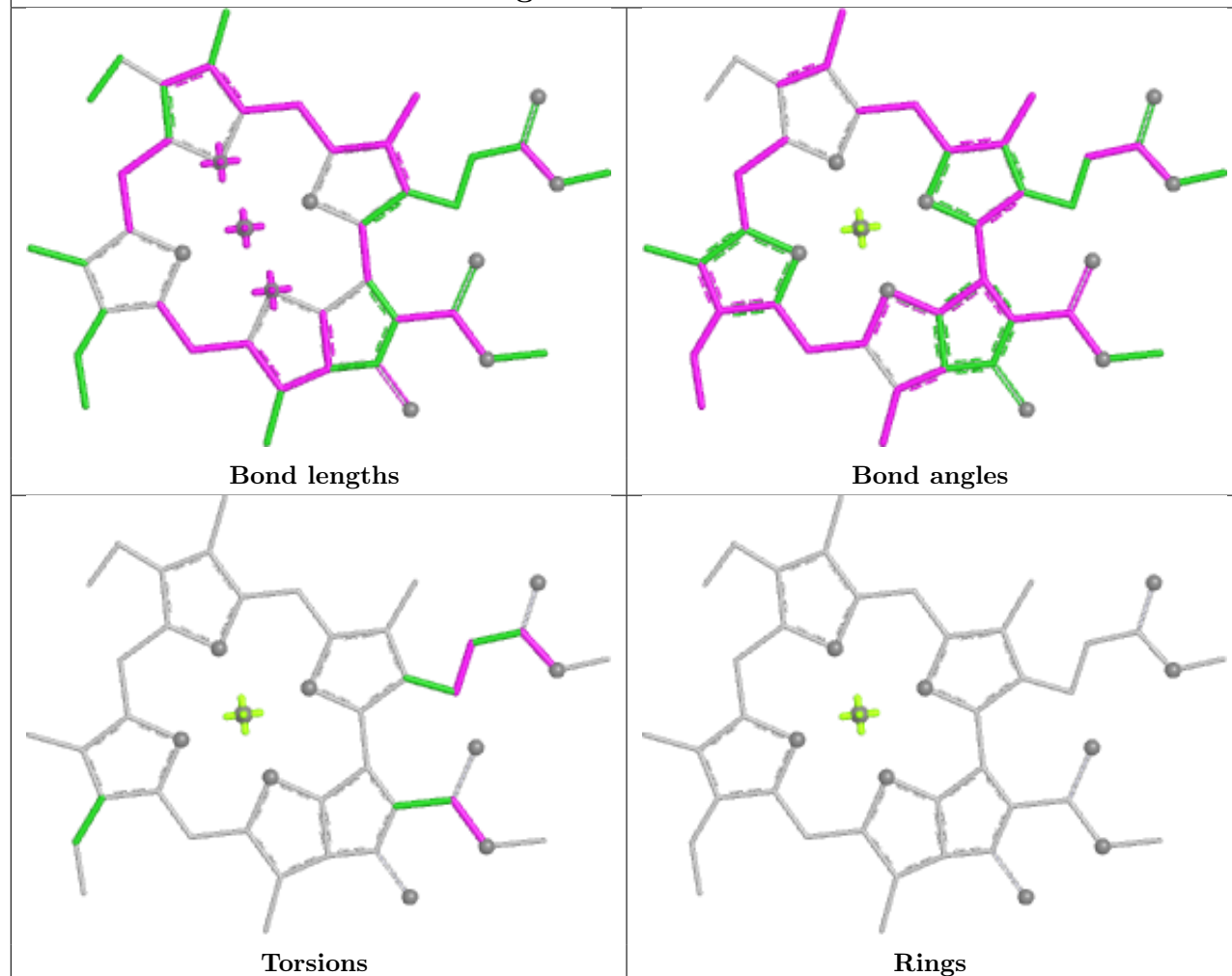
Ligand CHL 6 312



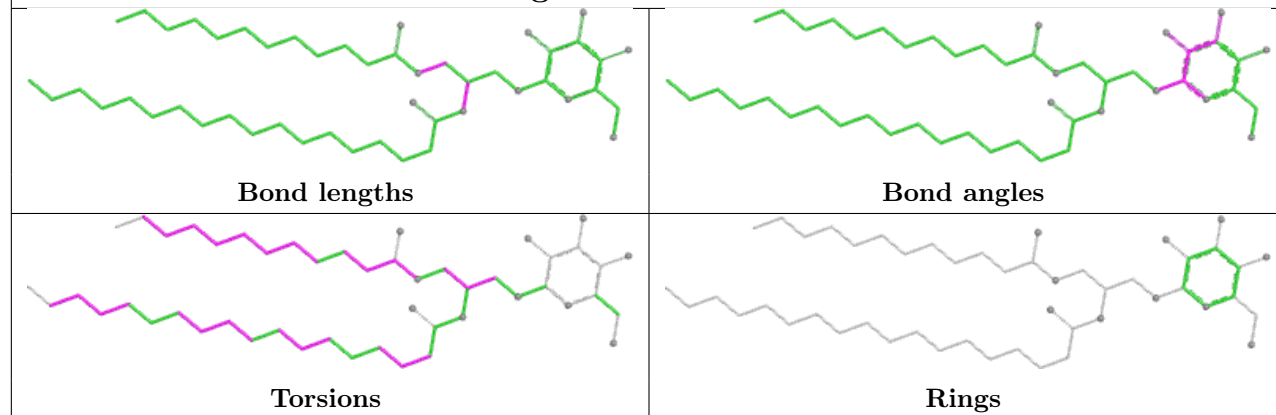
Ligand BCR A 807

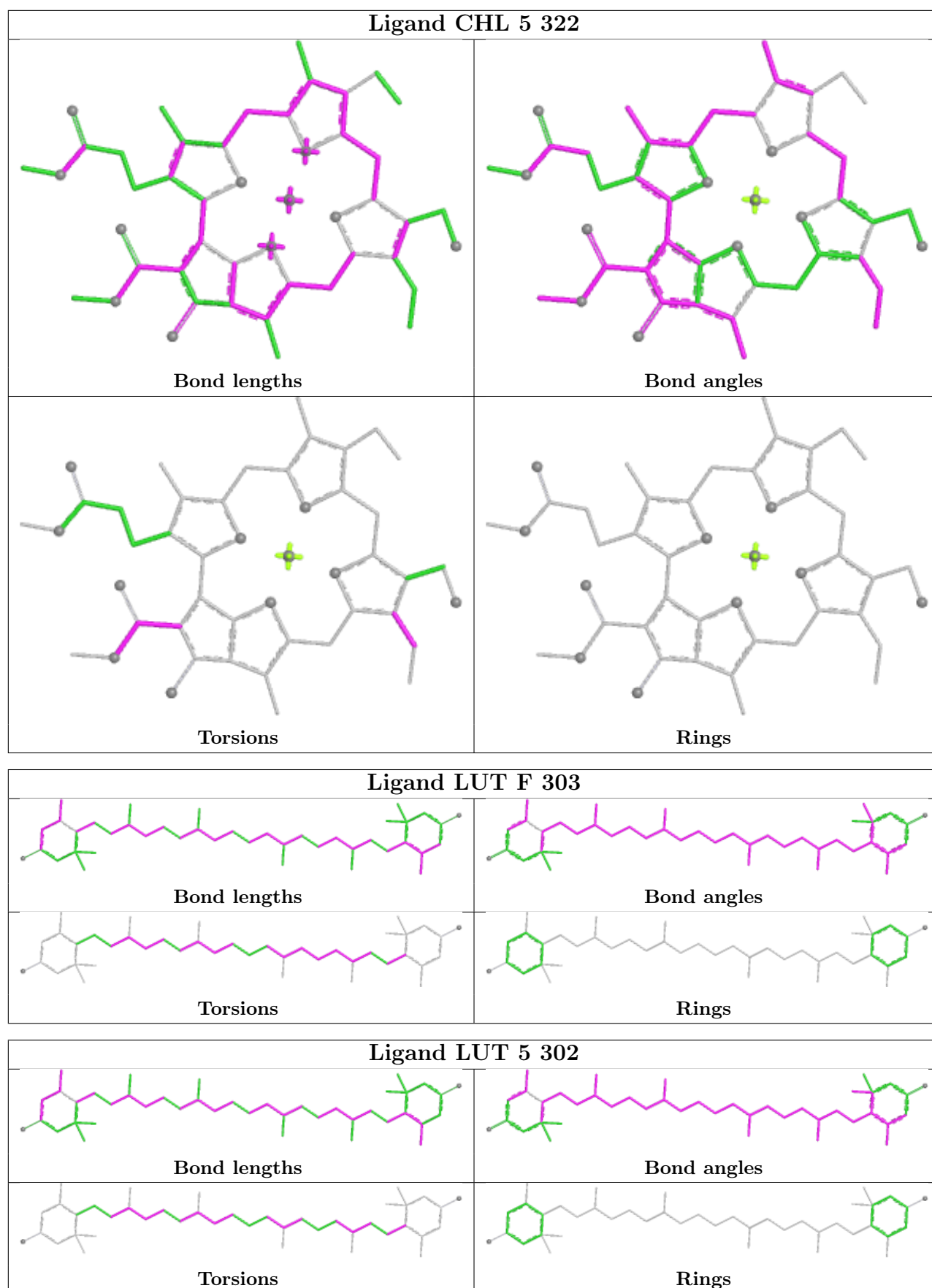


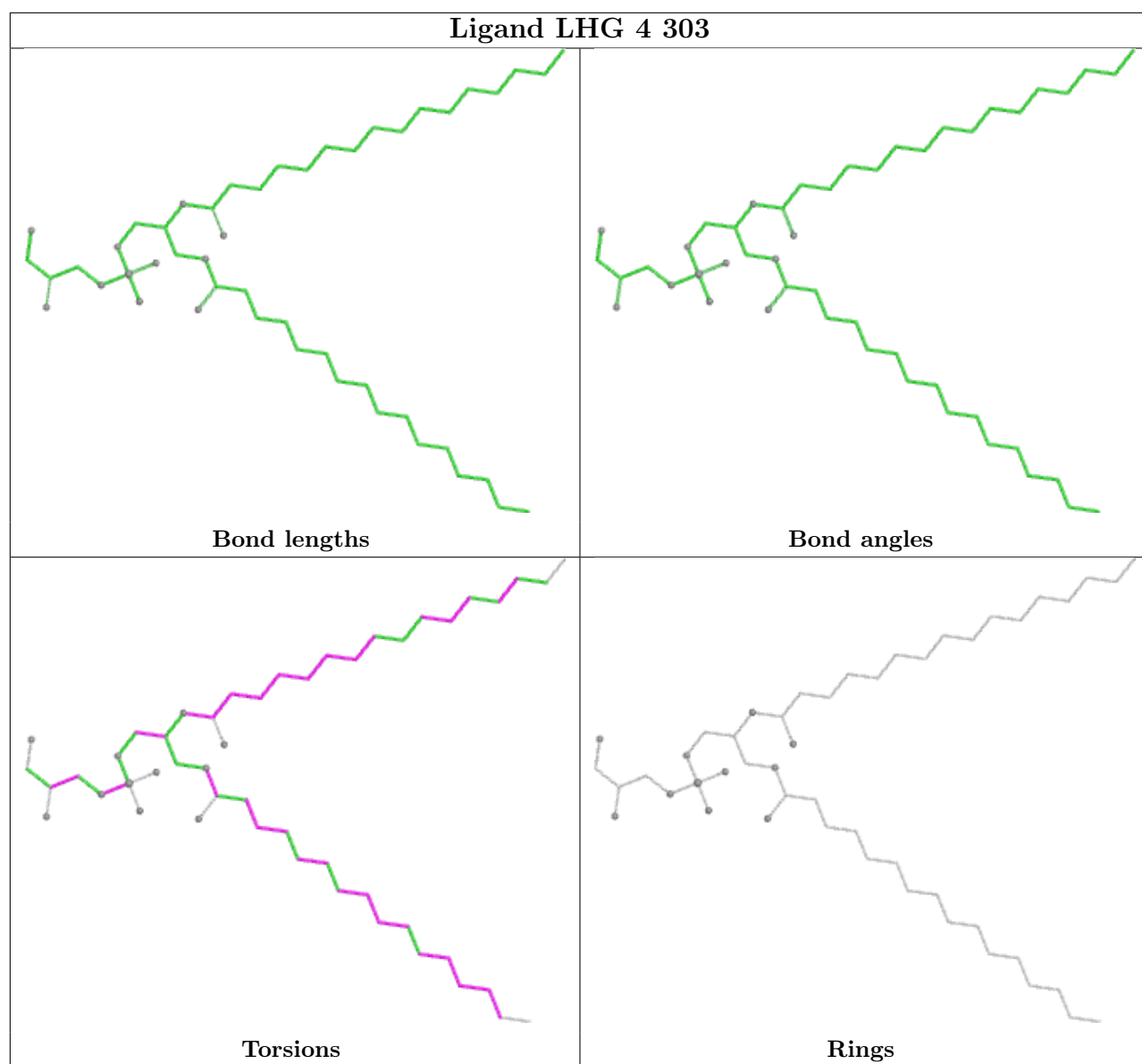
Ligand CHL b 308

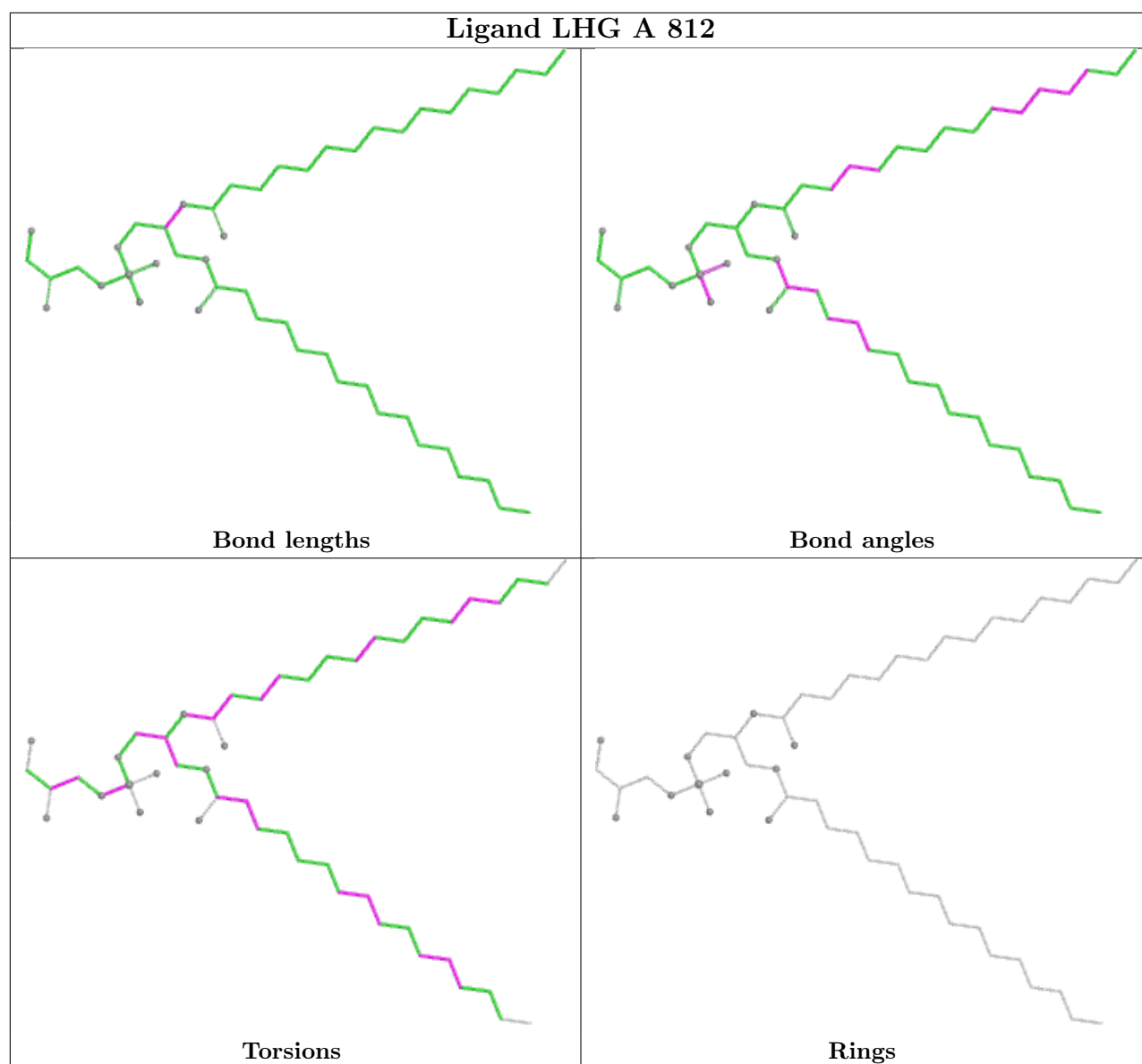


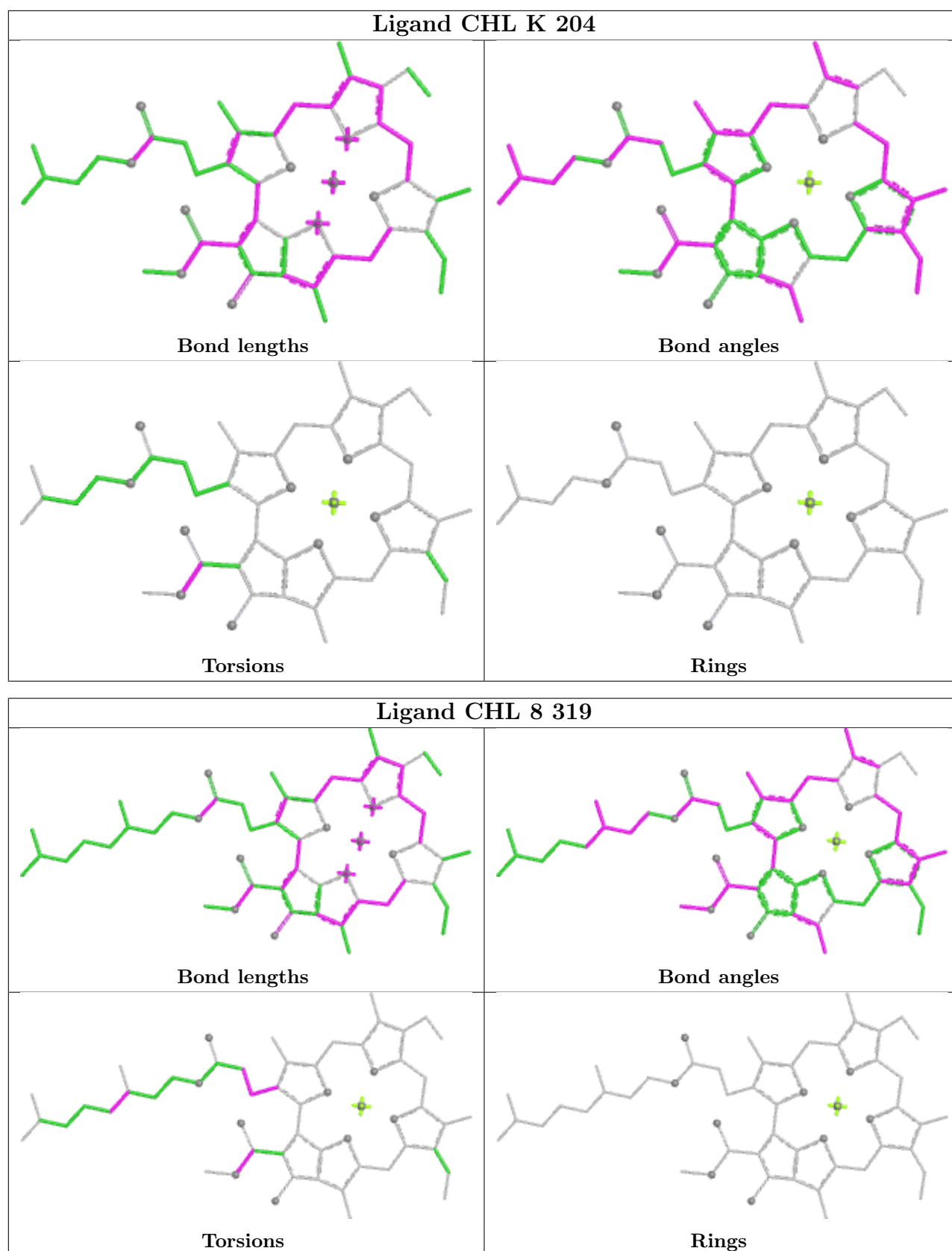
Ligand LMG J 101



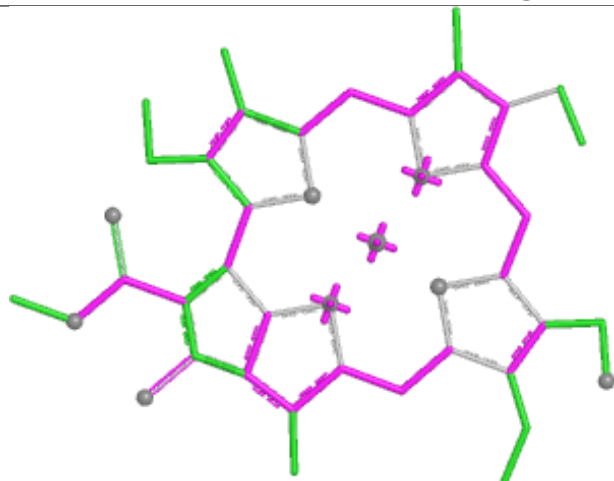




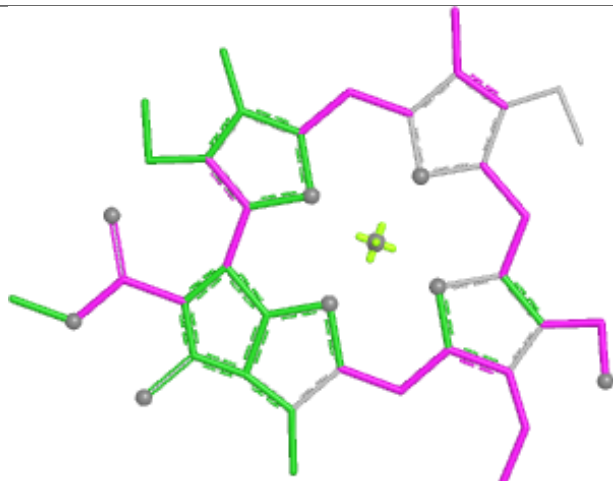




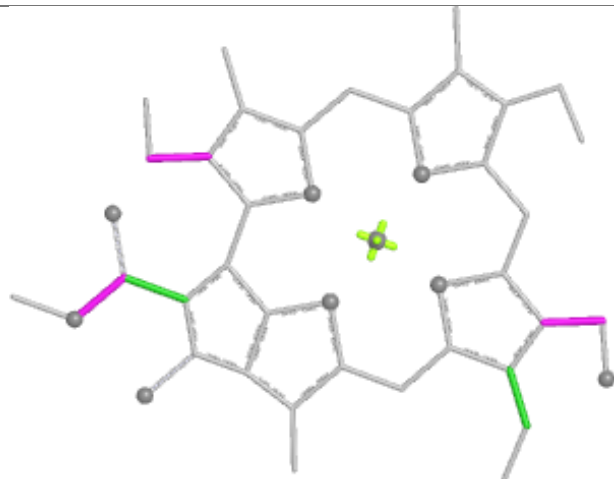
Ligand CHL 6 319



Bond lengths



Bond angles

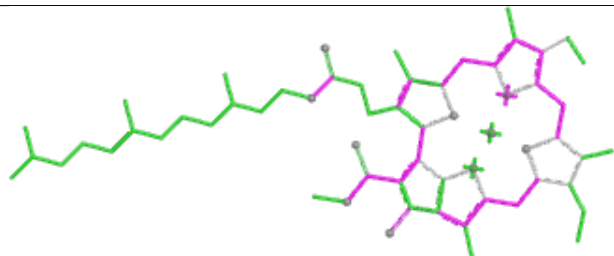


Torsions

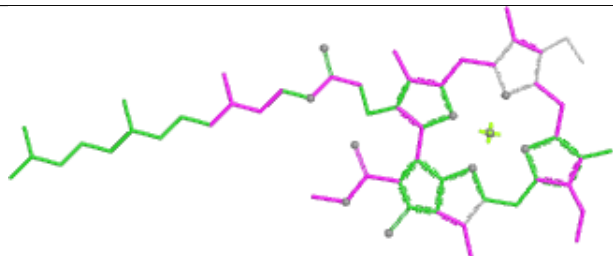


Rings

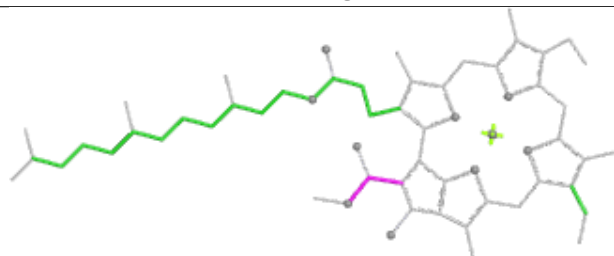
Ligand CHL B 828



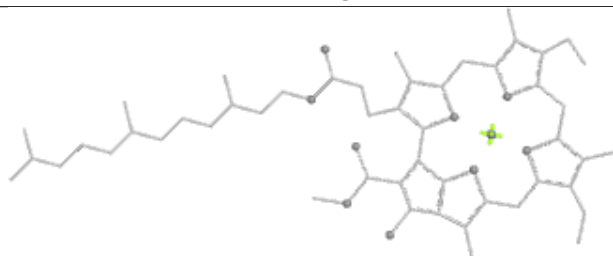
Bond lengths



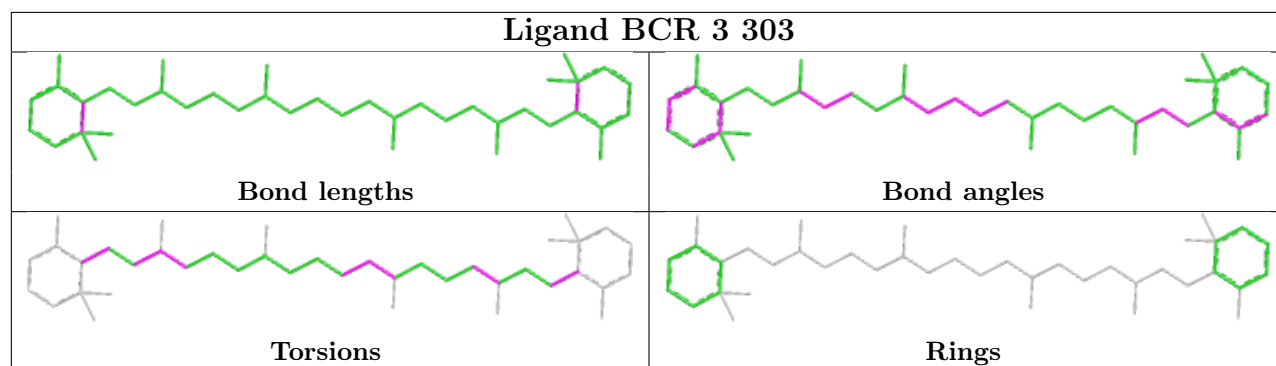
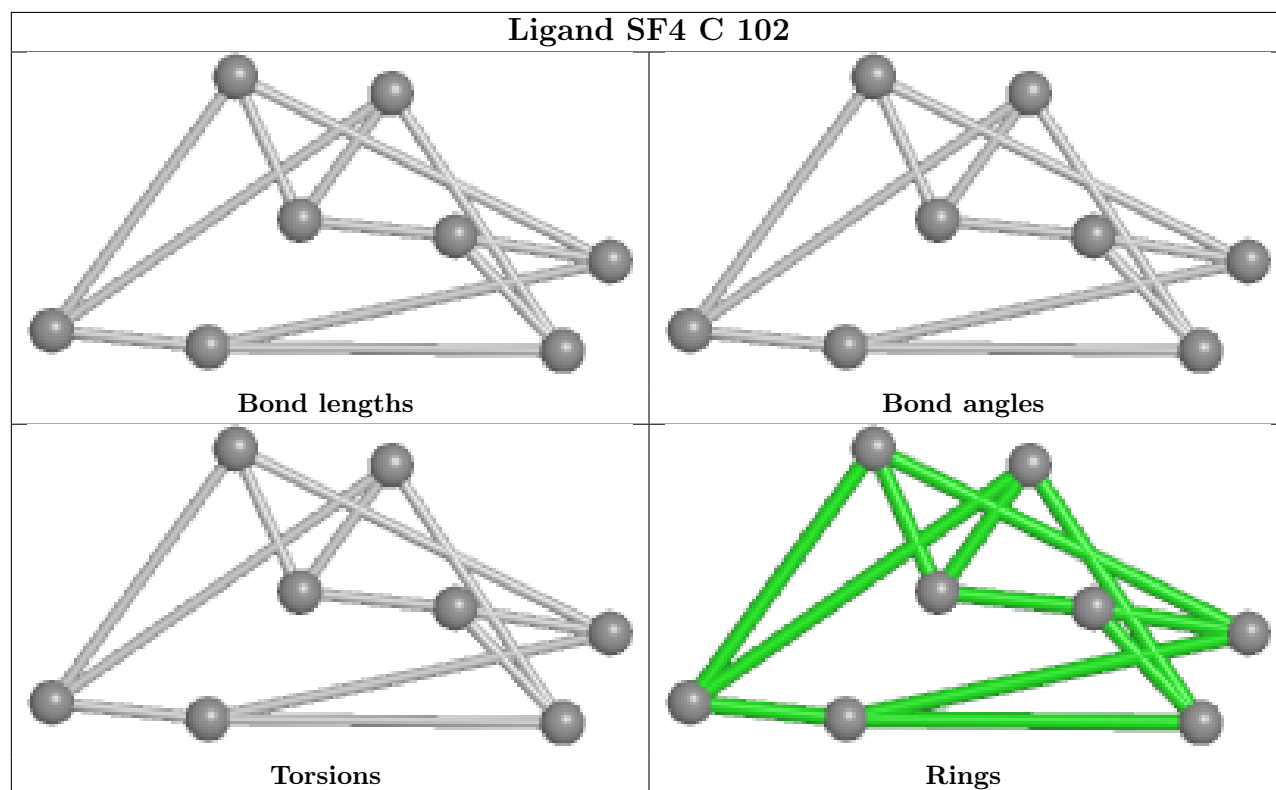
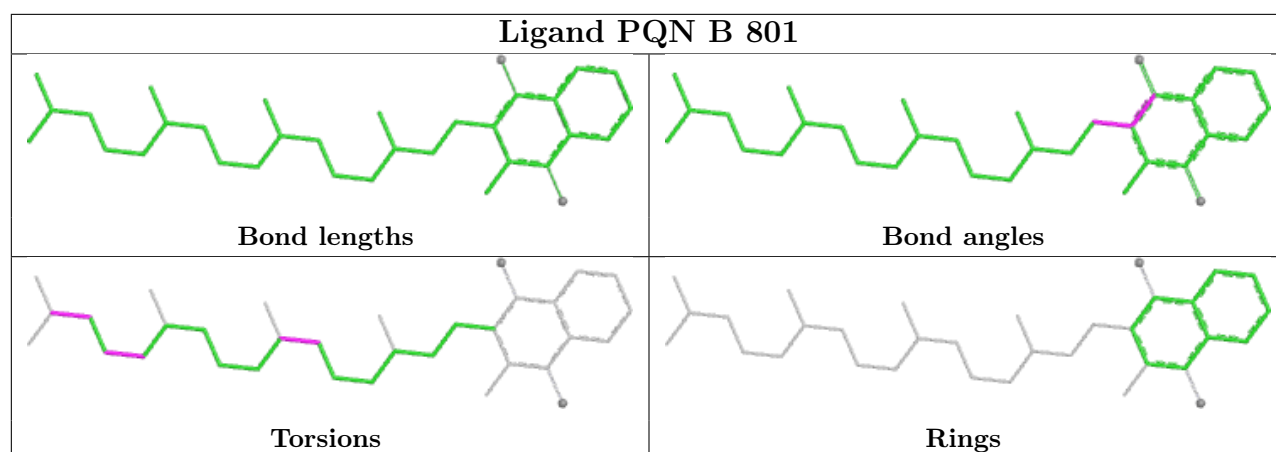
Bond angles

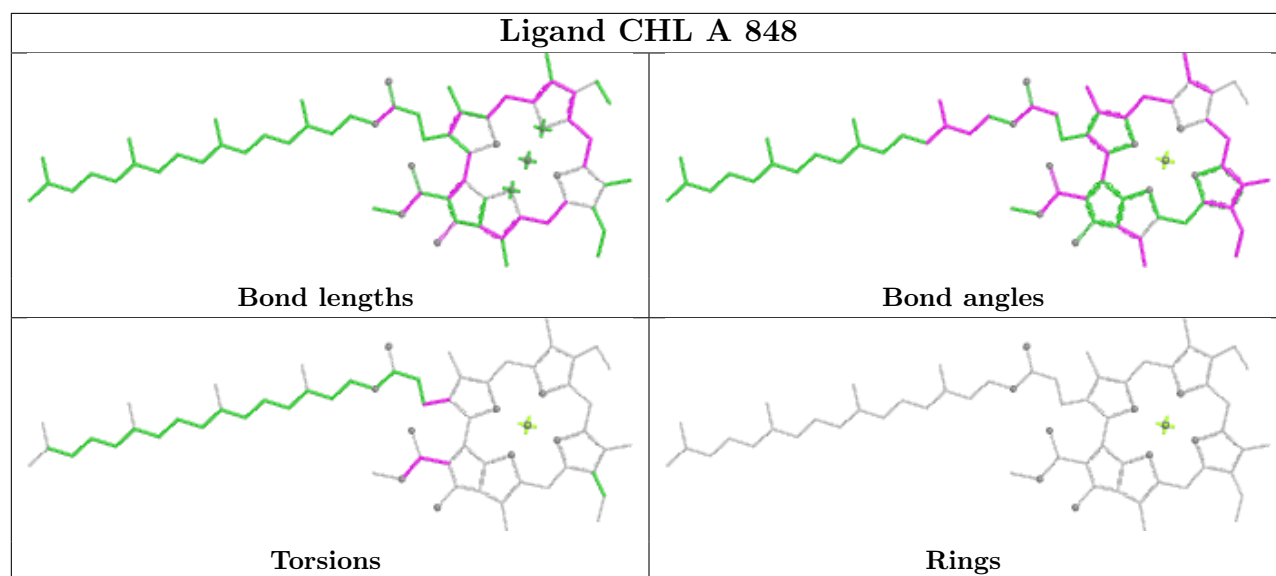
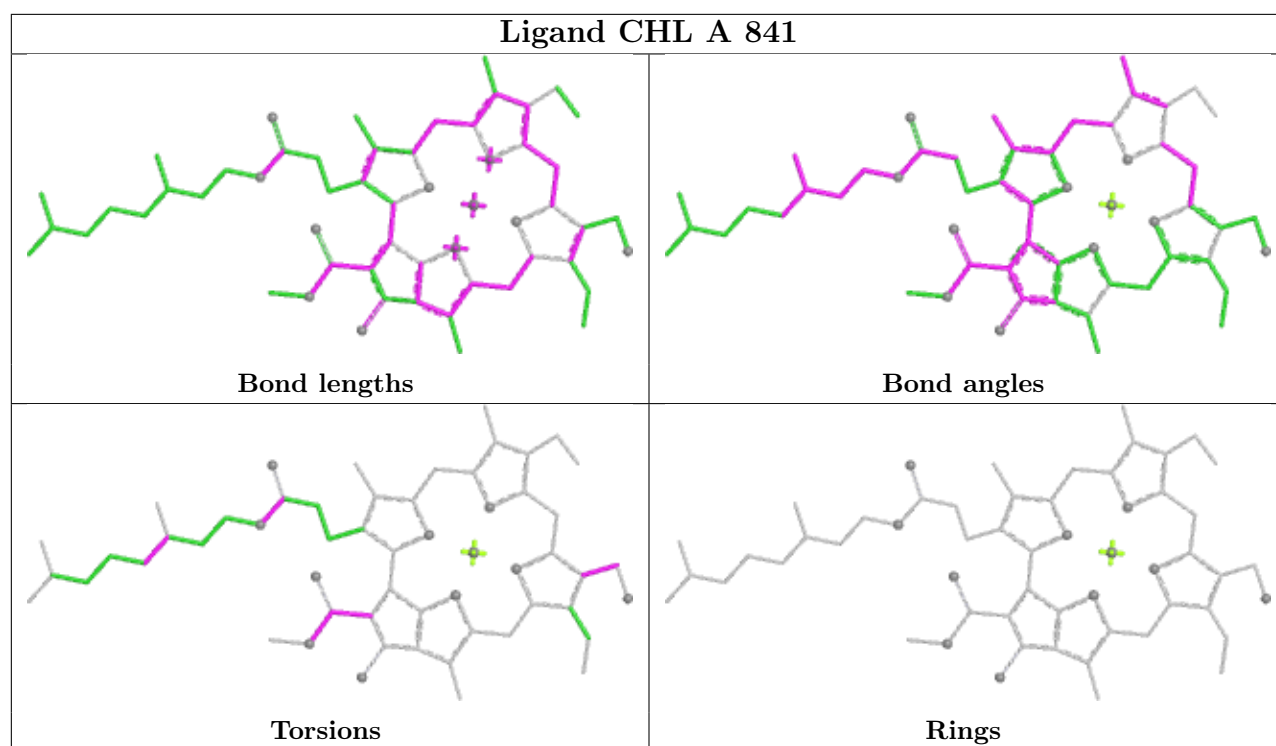


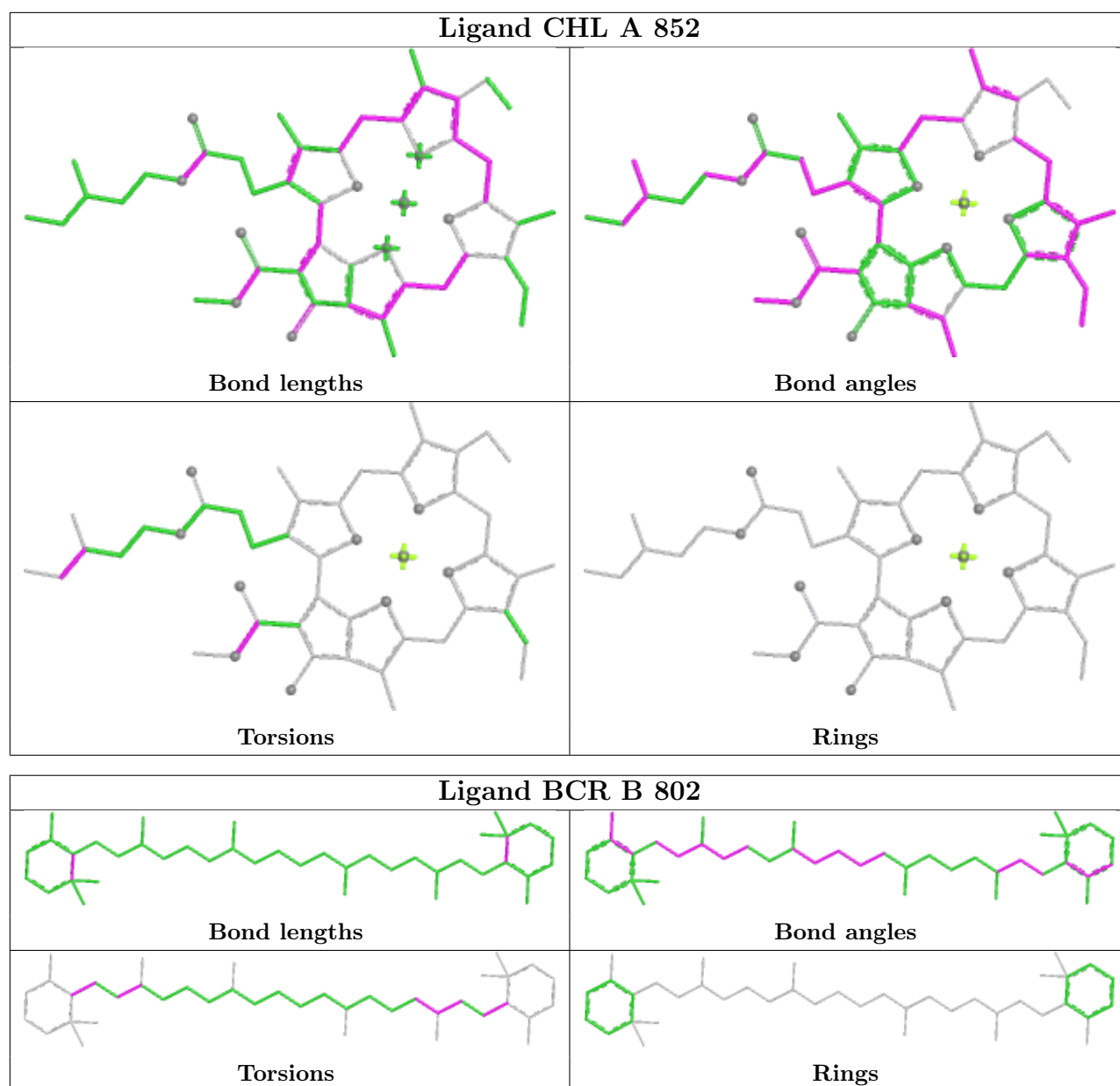
Torsions

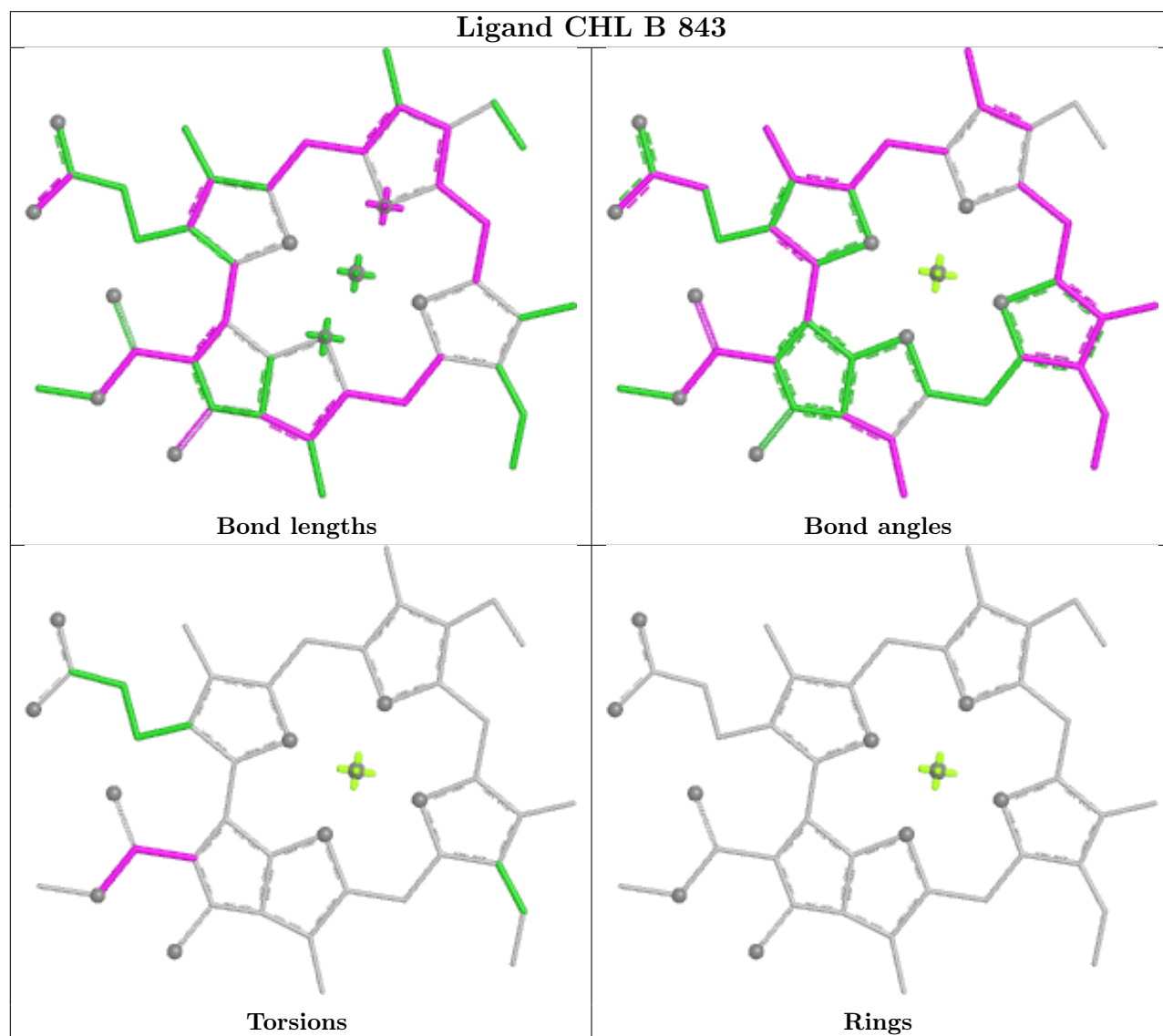
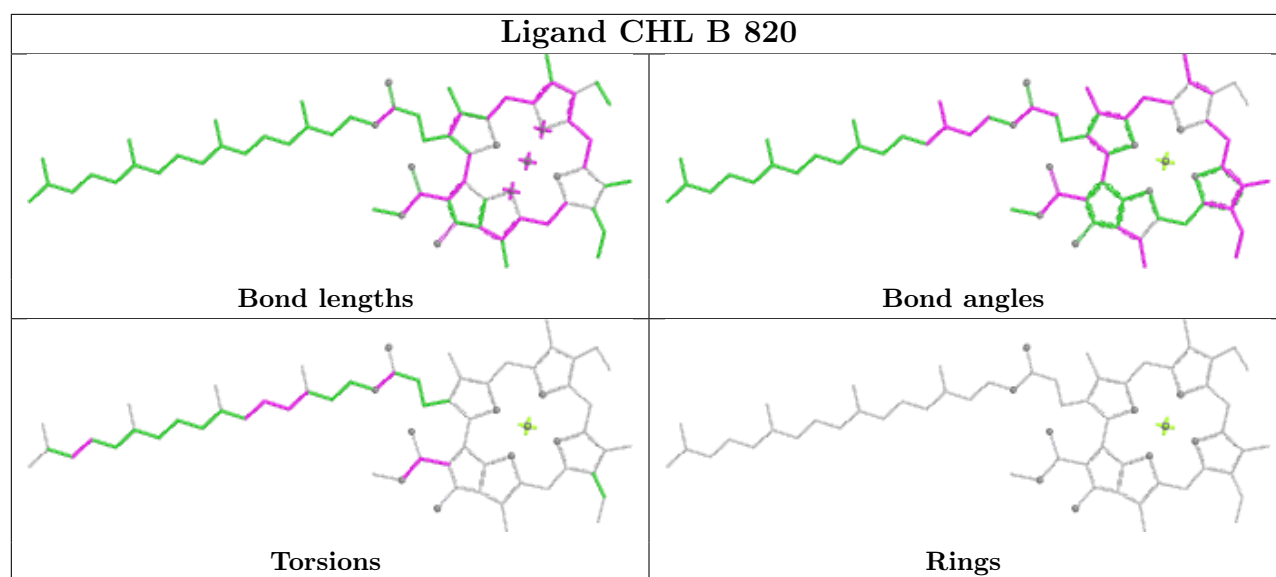


Rings

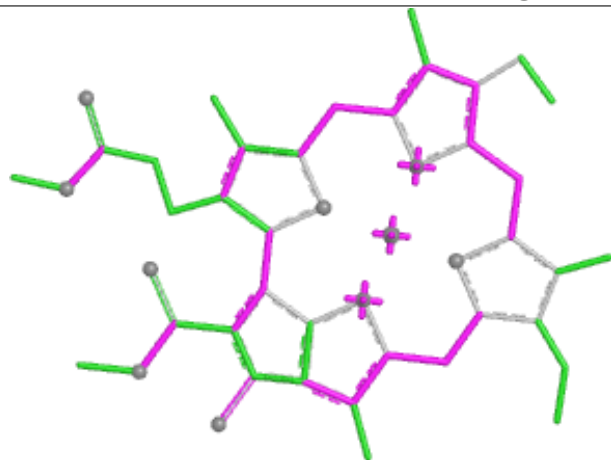




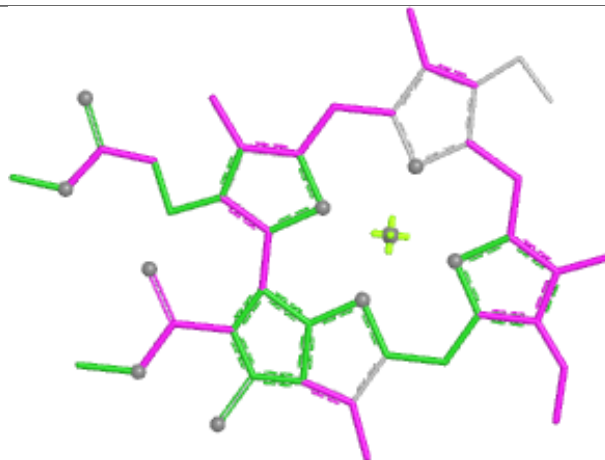




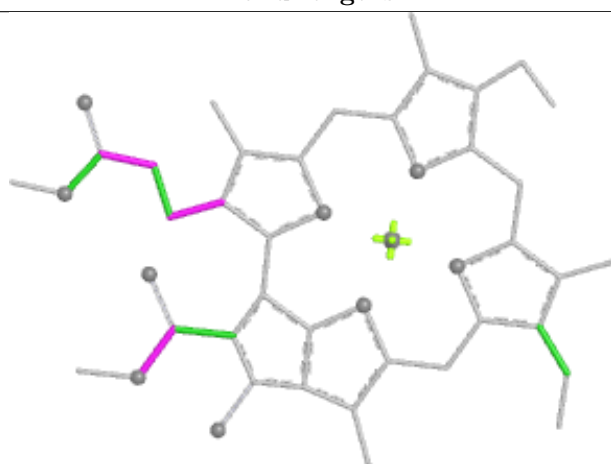
Ligand CHL F 308



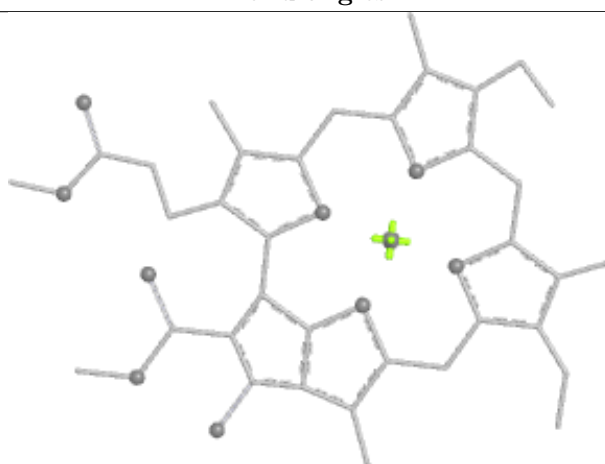
Bond lengths



Bond angles

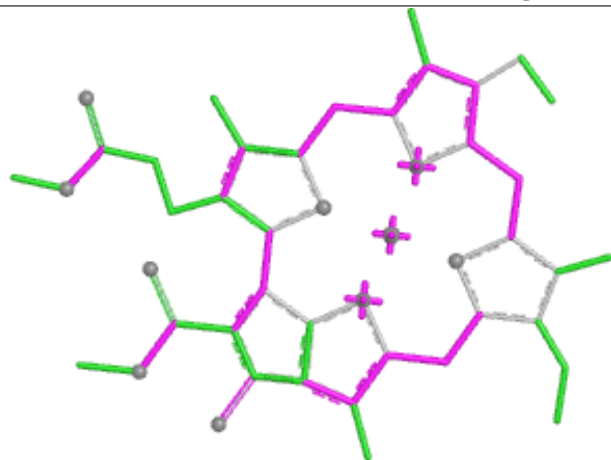


Torsions

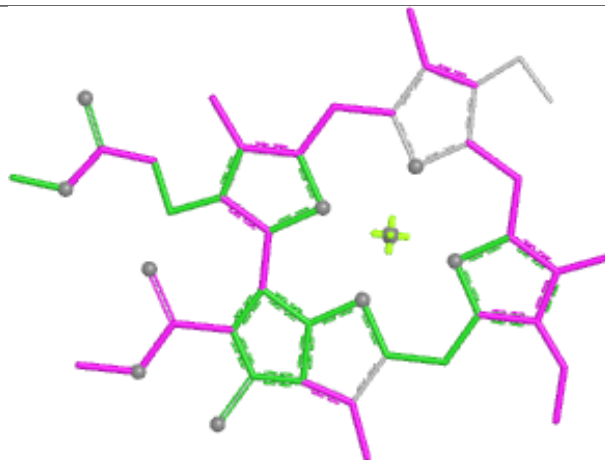


Rings

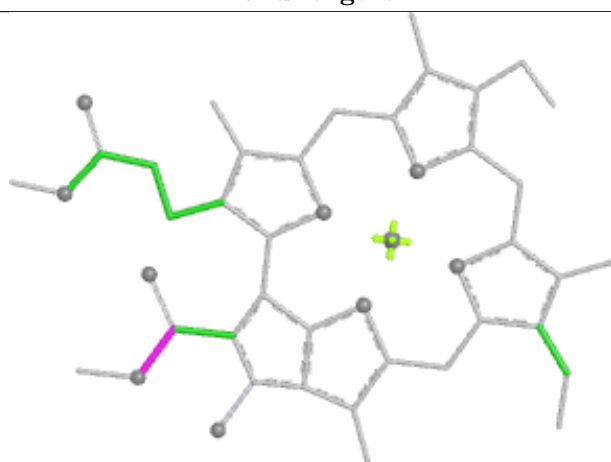
Ligand CHL 3 309



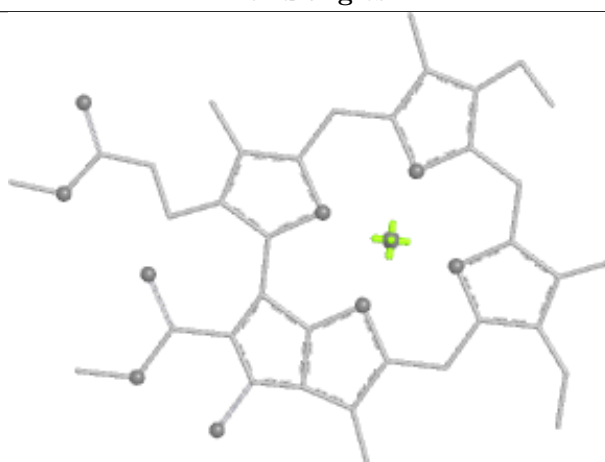
Bond lengths



Bond angles

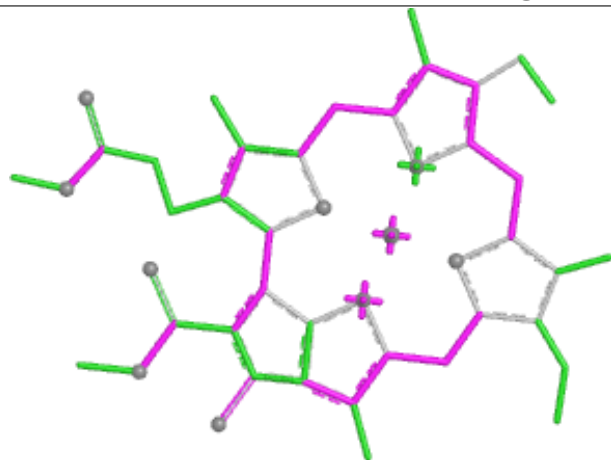


Torsions

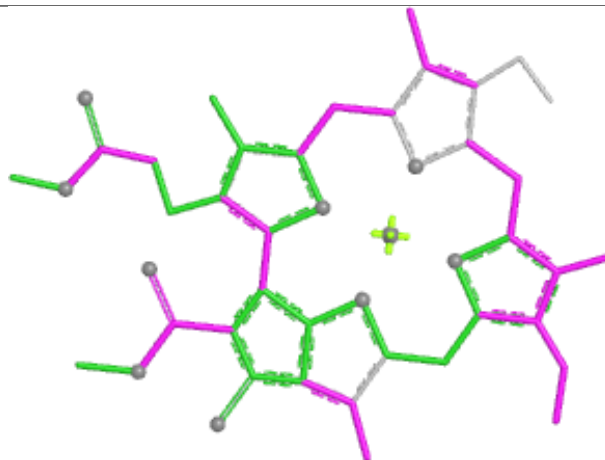


Rings

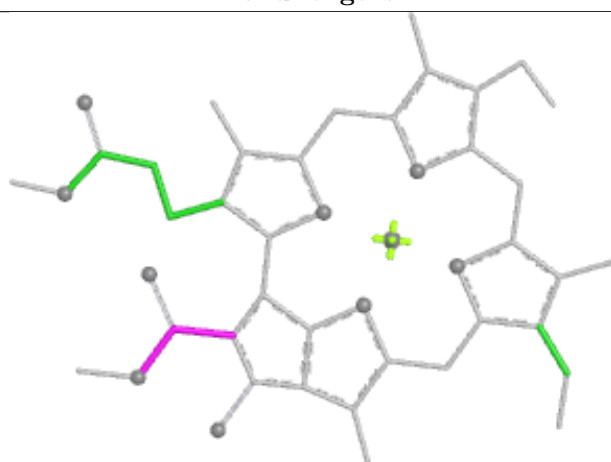
Ligand CHL 6 314



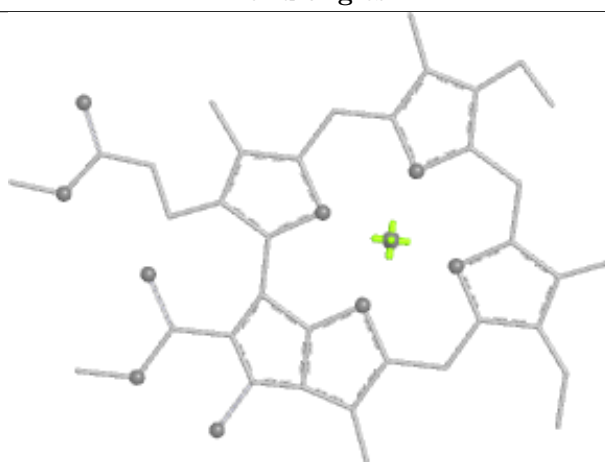
Bond lengths



Bond angles

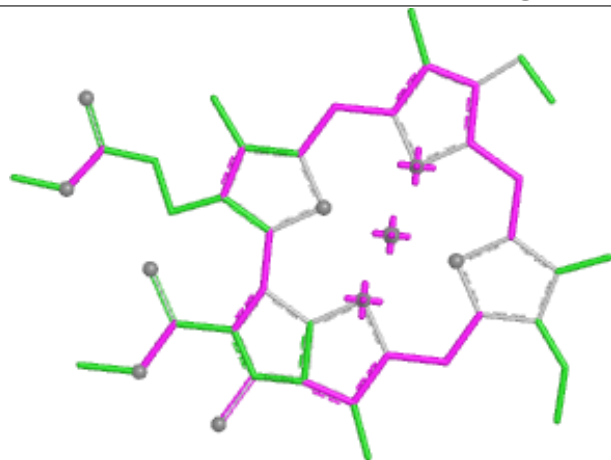


Torsions

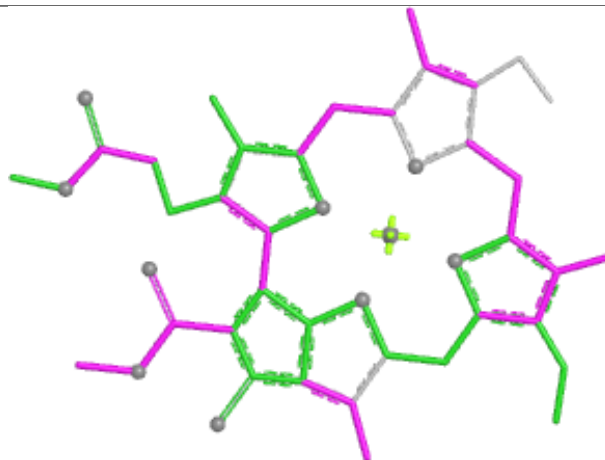


Rings

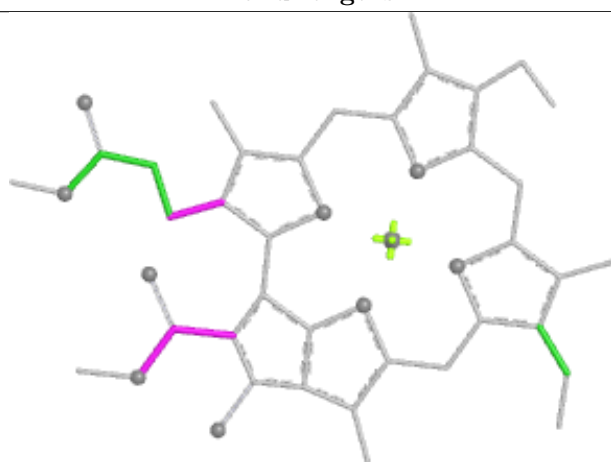
Ligand CHL b 304



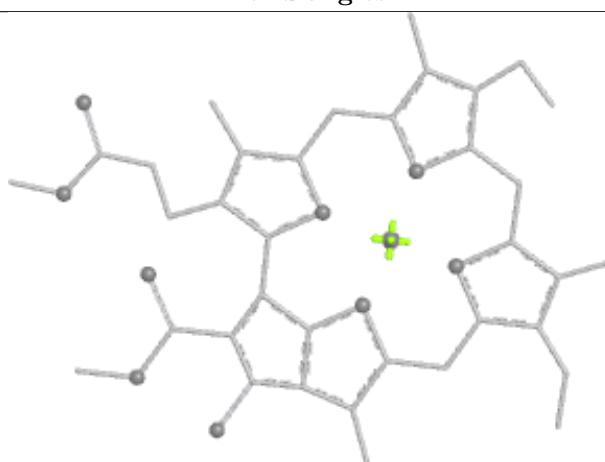
Bond lengths



Bond angles

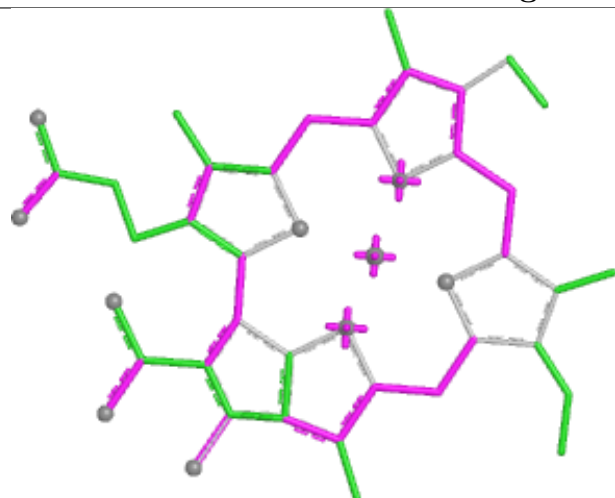


Torsions

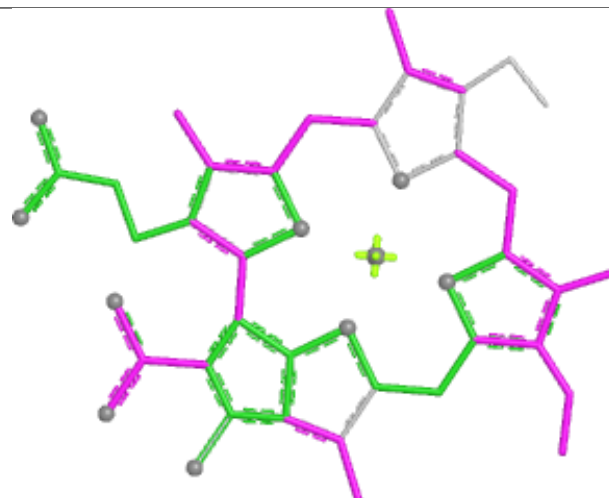


Rings

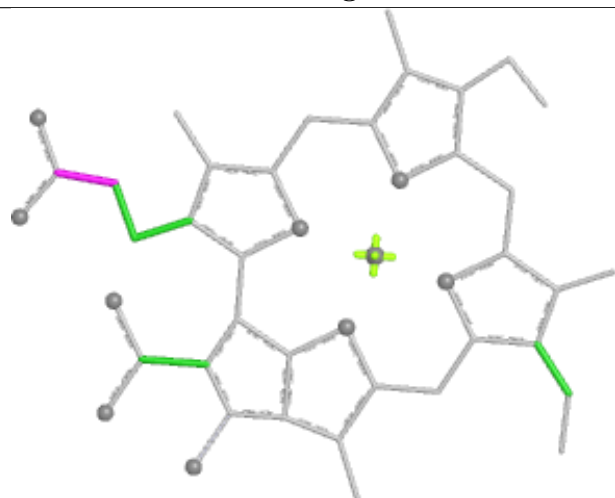
Ligand CHL 7 315



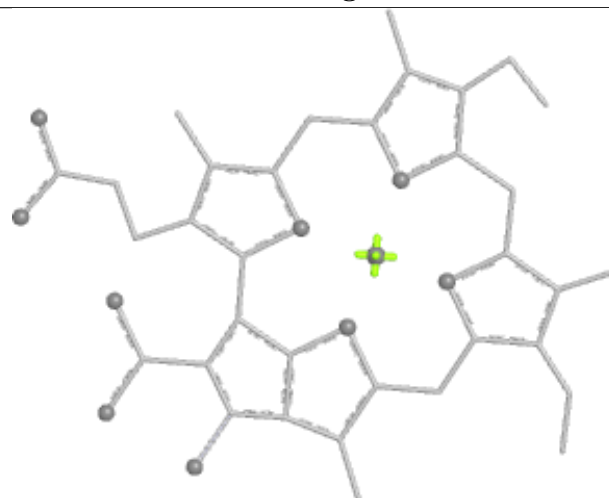
Bond lengths



Bond angles

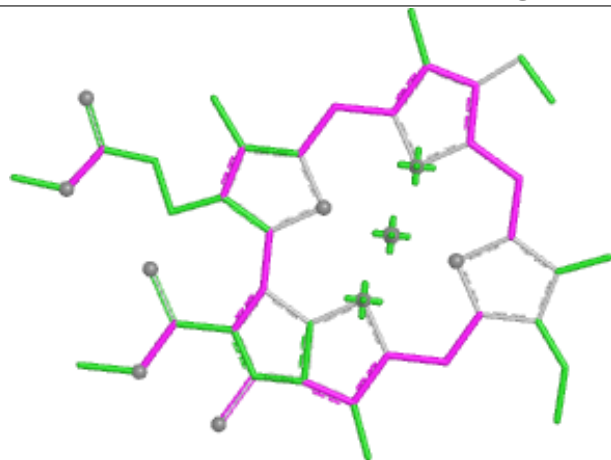


Torsions

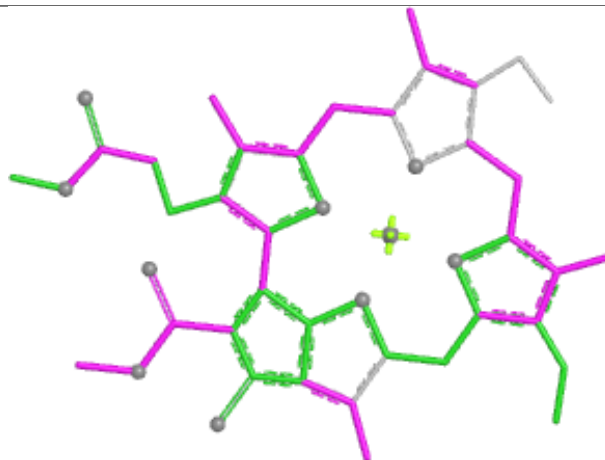


Rings

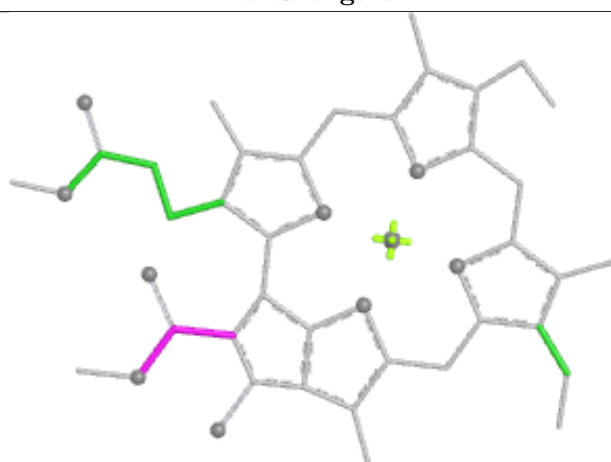
Ligand CHL B 831



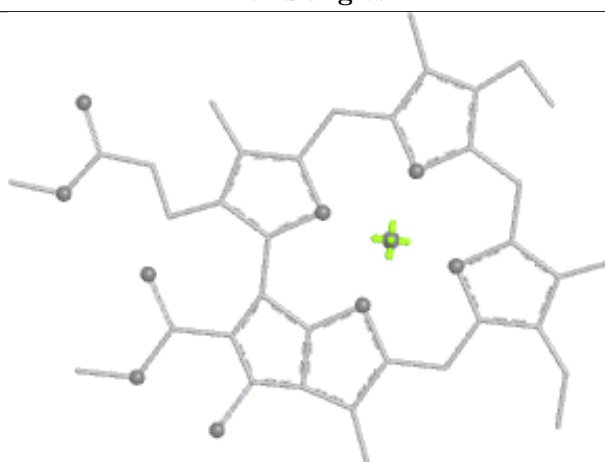
Bond lengths



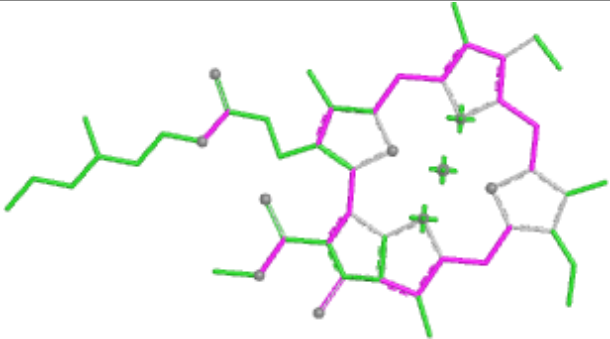
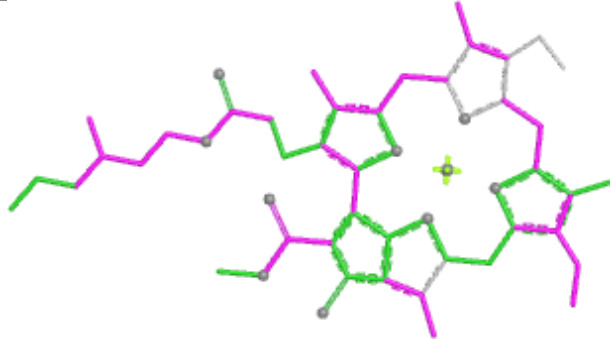
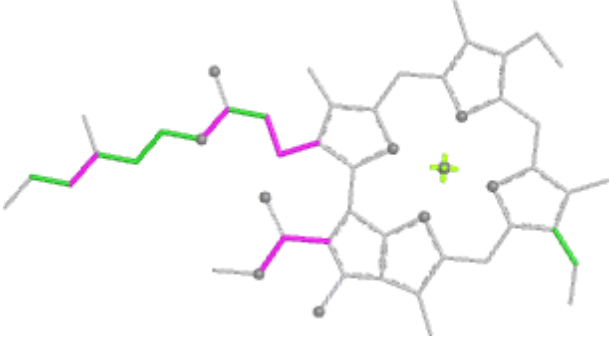
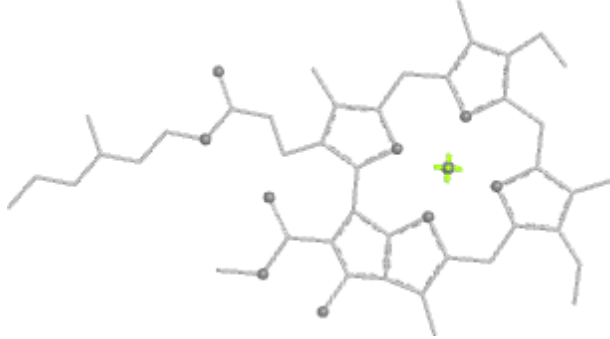
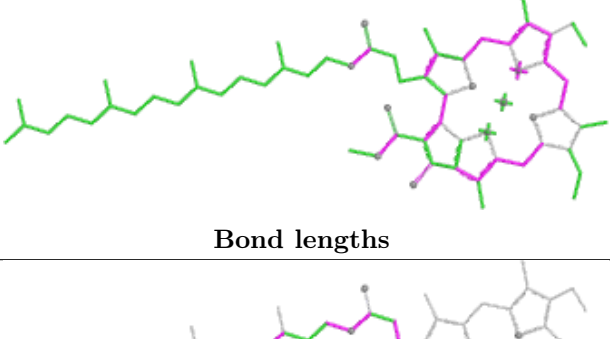
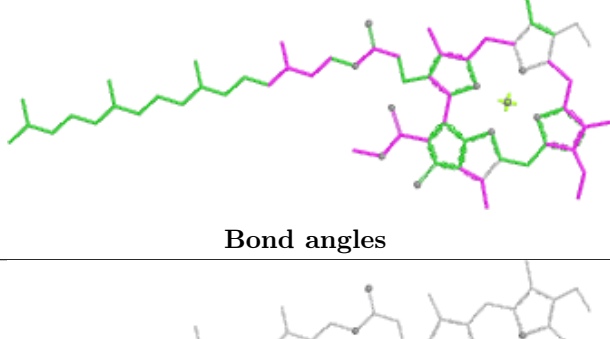
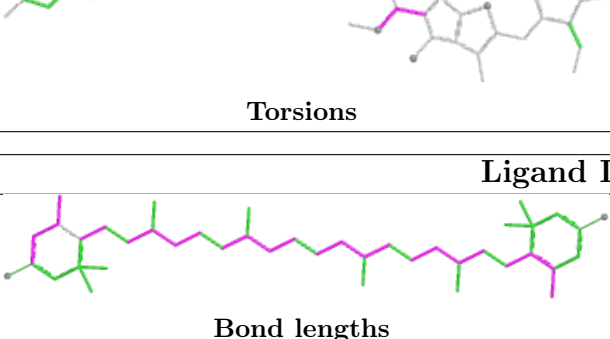
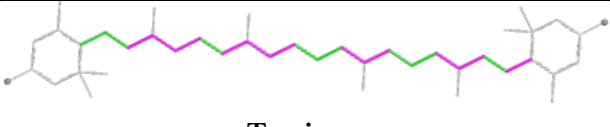
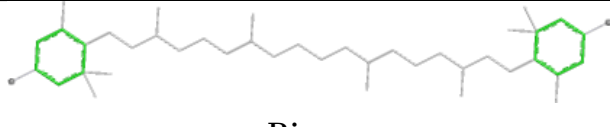
Bond angles



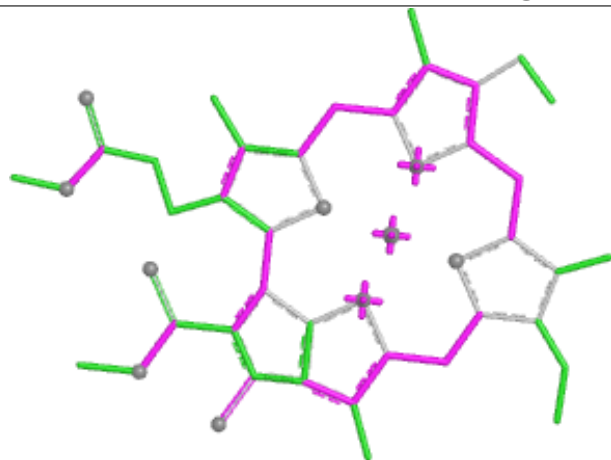
Torsions



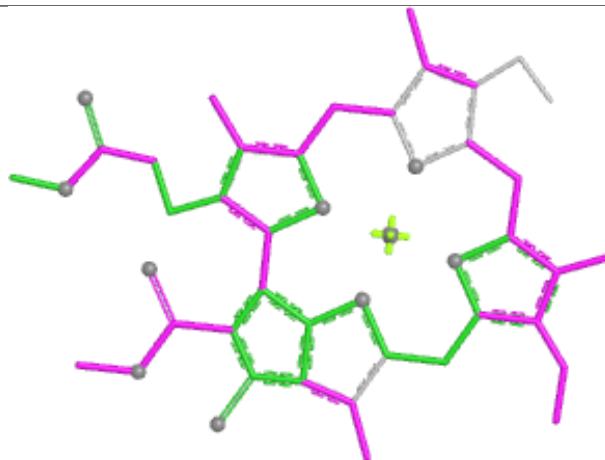
Rings

Ligand CHL 3 315	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand CHL B 846	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand LUT 8 303	
 Bond lengths	 Bond angles
 Torsions	 Rings

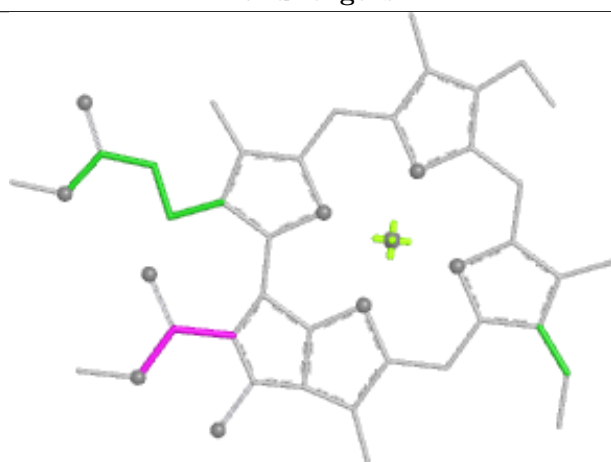
Ligand CHL 5 320



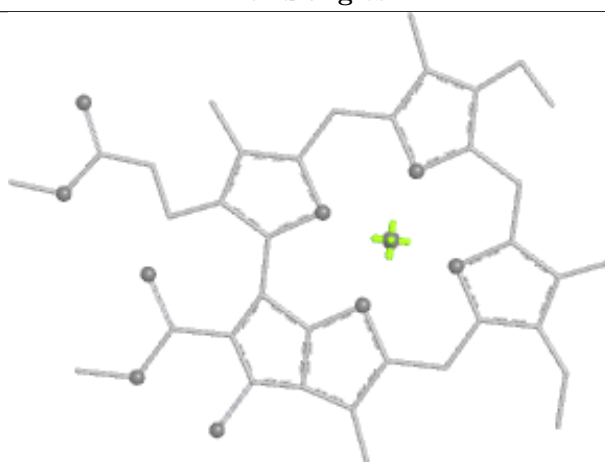
Bond lengths



Bond angles

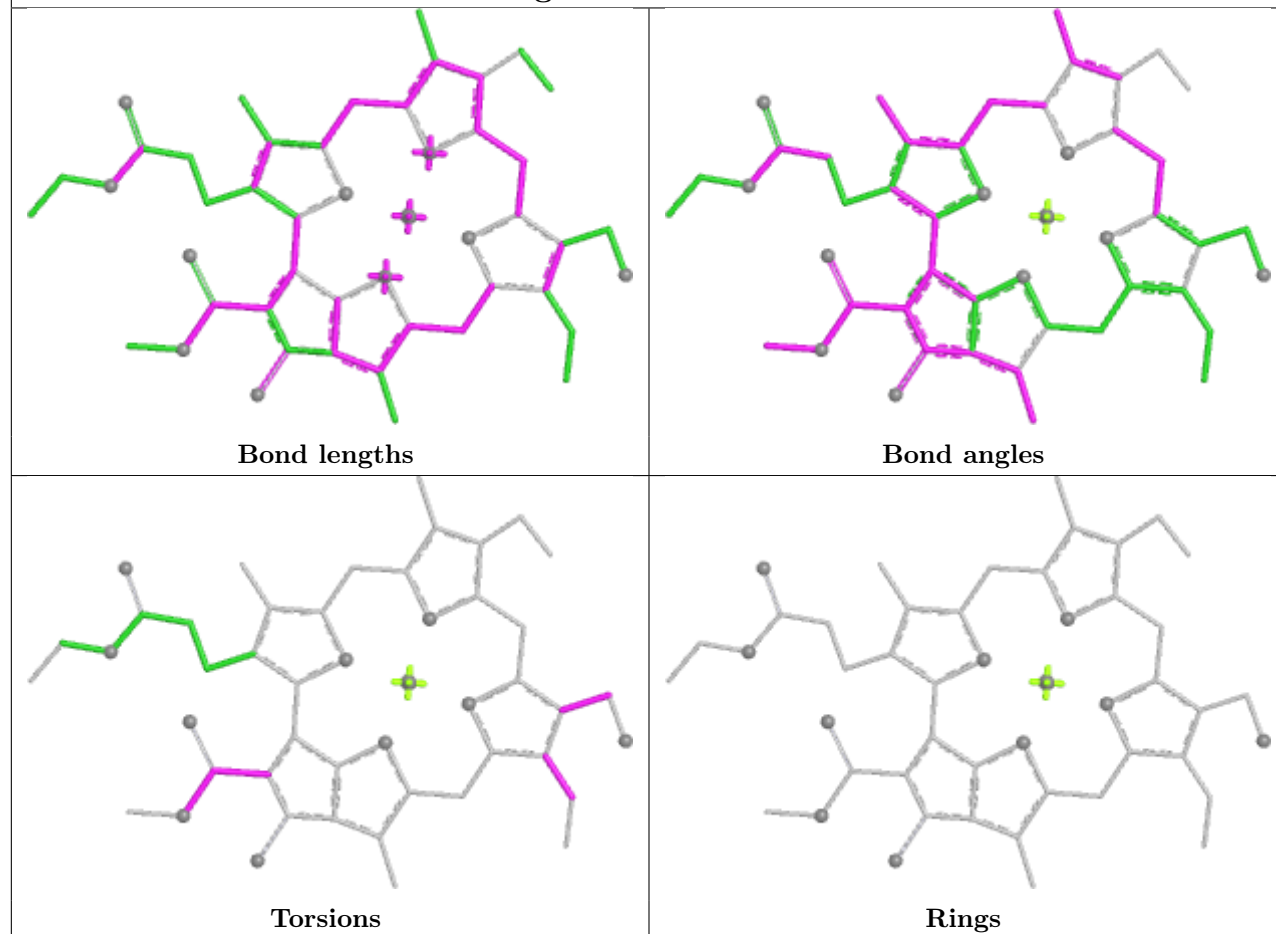


Torsions

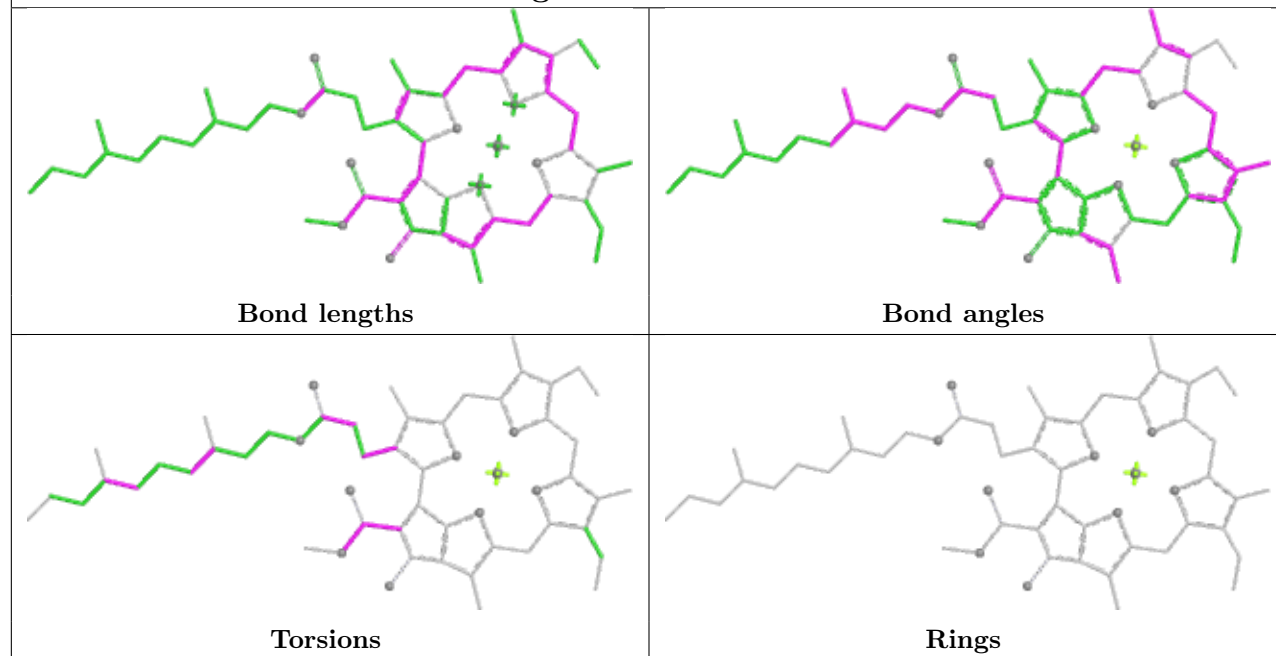


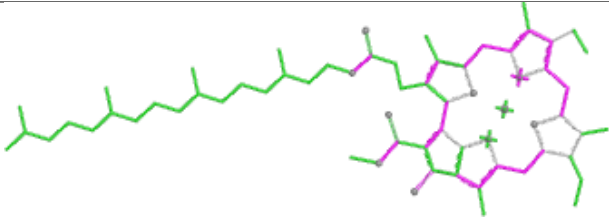
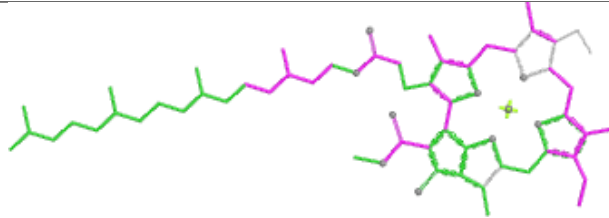
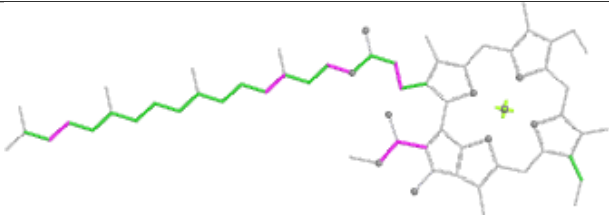
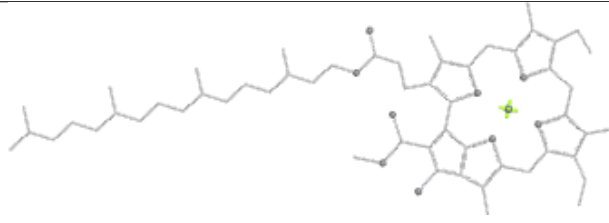
Rings

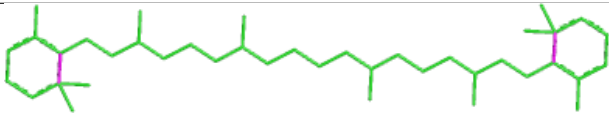
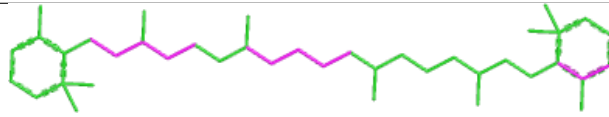
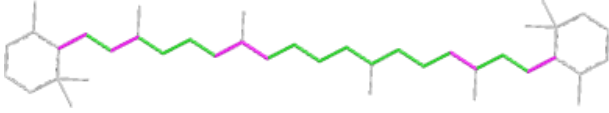
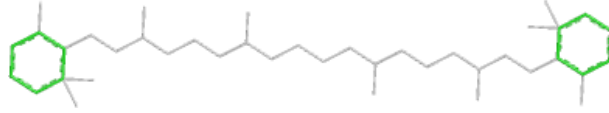
Ligand CHL b 316

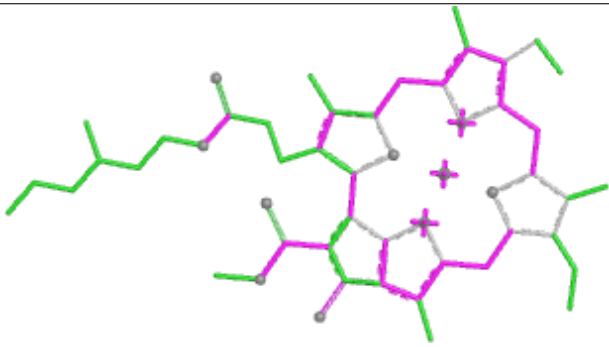
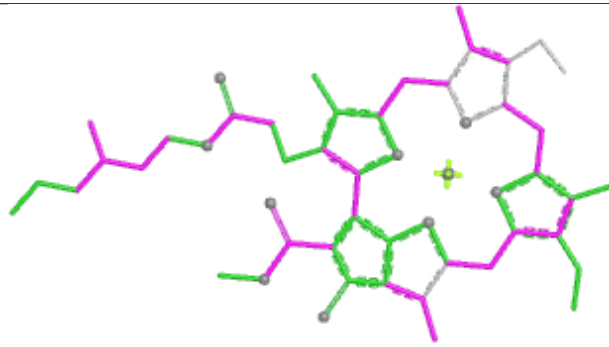
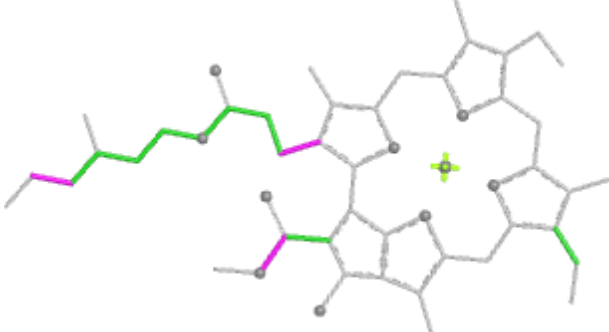
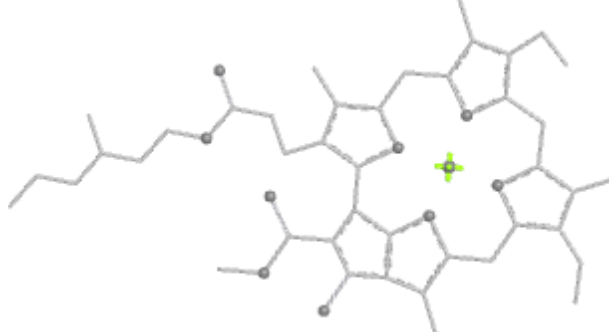


Ligand CHL B 835

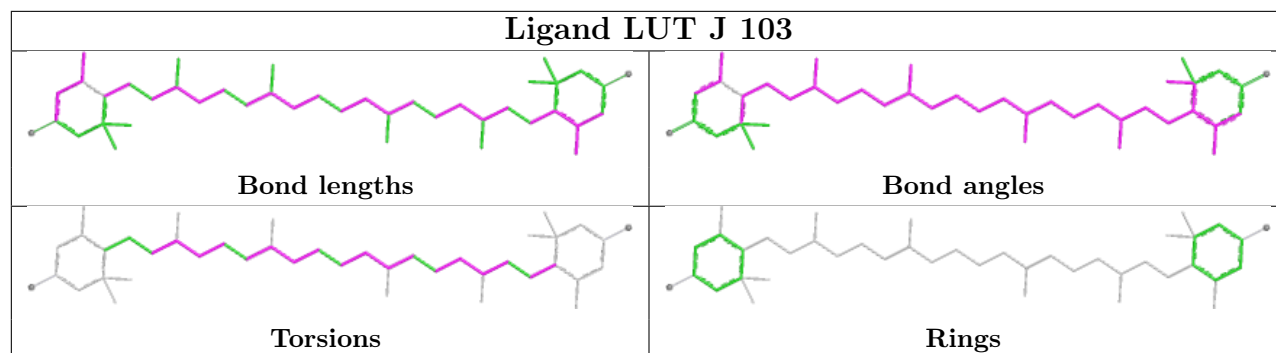


Ligand CHL B 832	
	
Bond lengths	Bond angles
	
Torsions	Rings

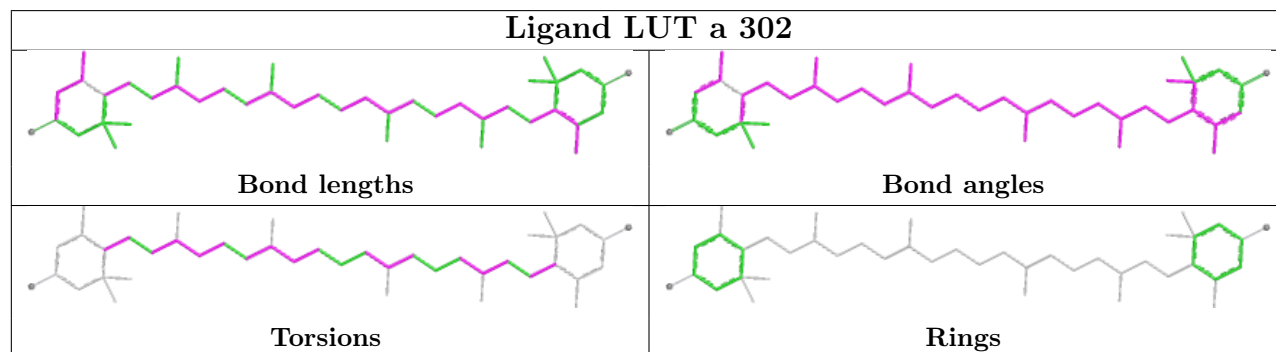
Ligand BCR 3 302	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CHL 7 323	
	
Bond lengths	Bond angles
	
Torsions	Rings

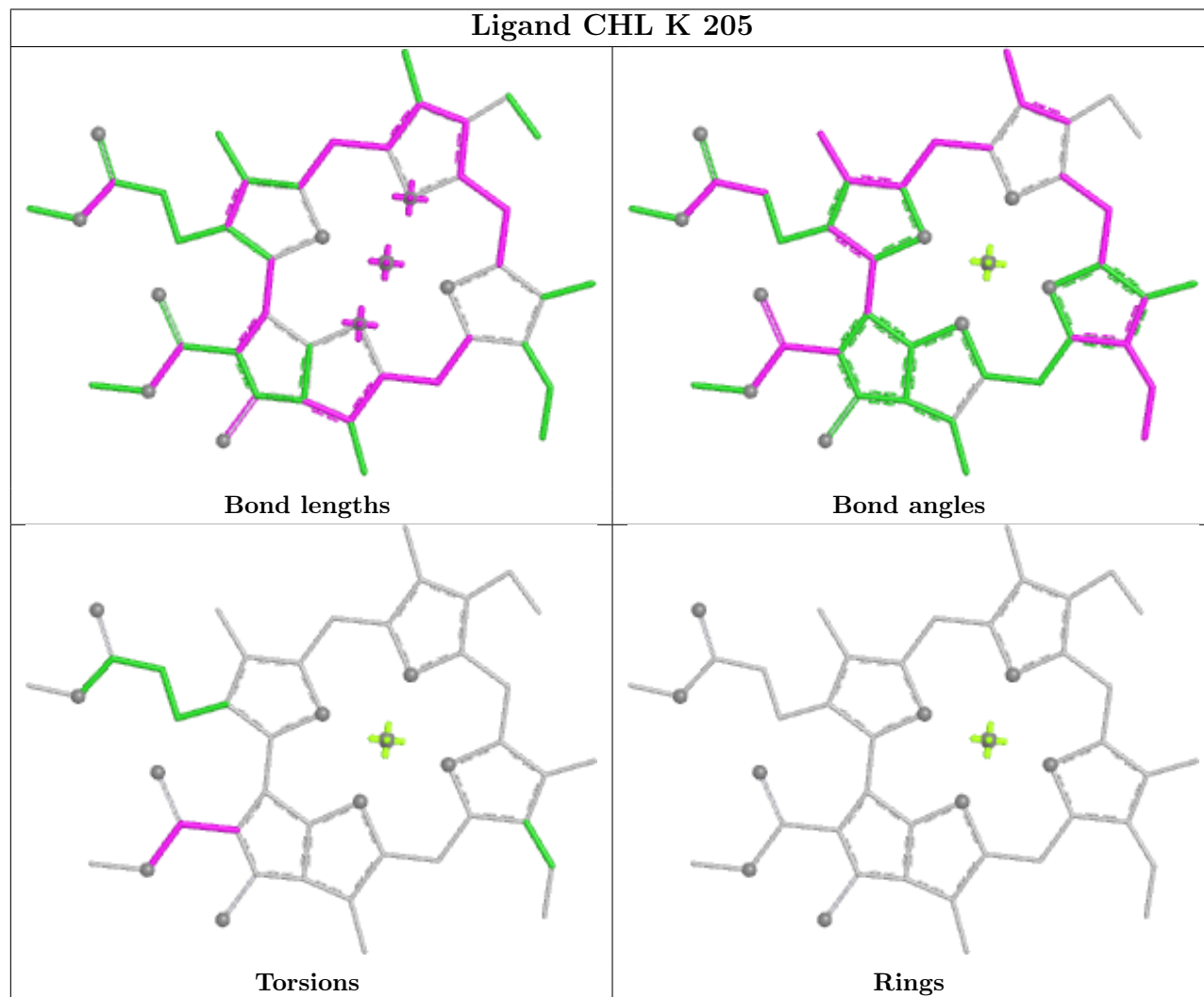
Ligand LUT J 103

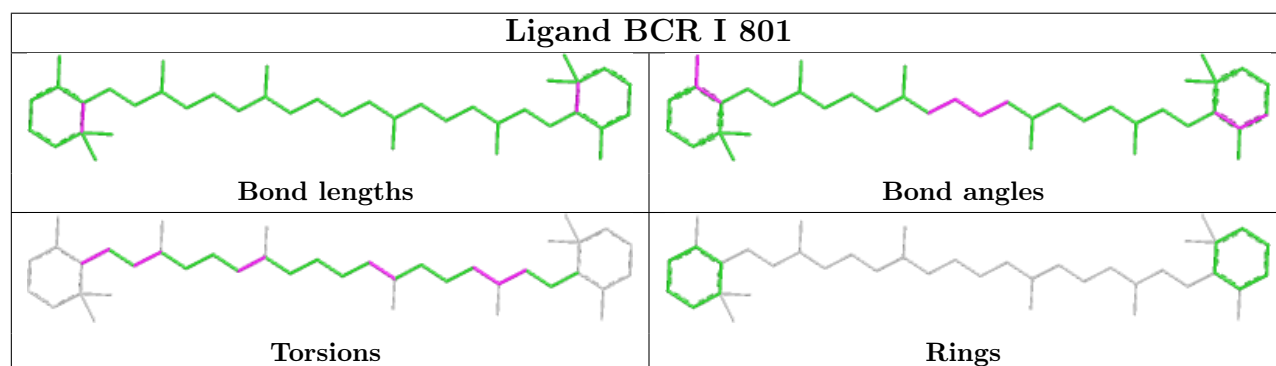
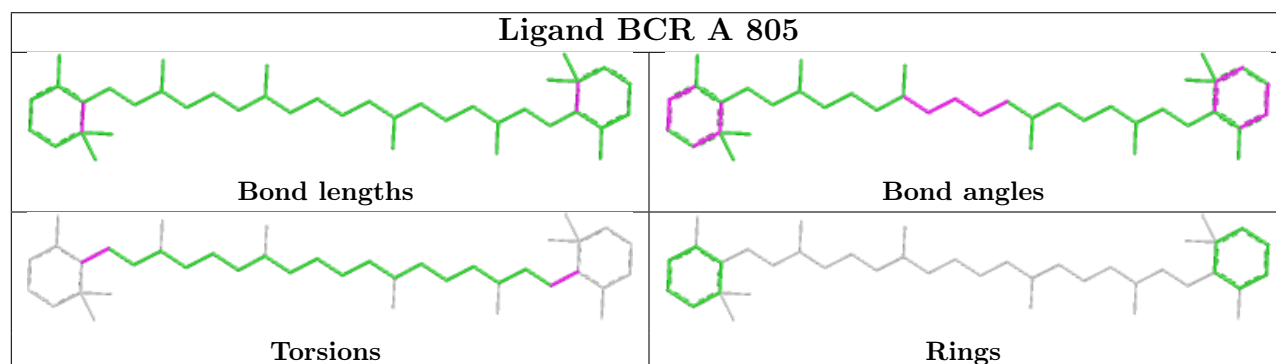
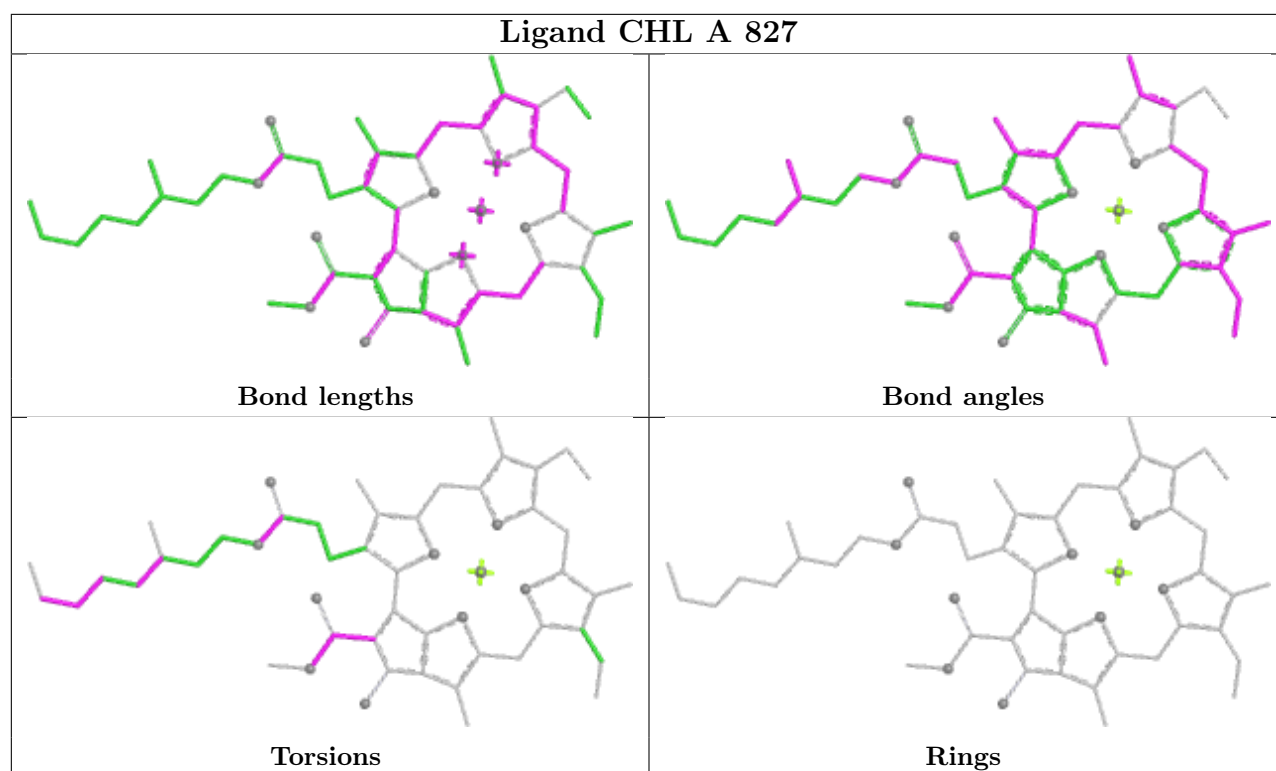


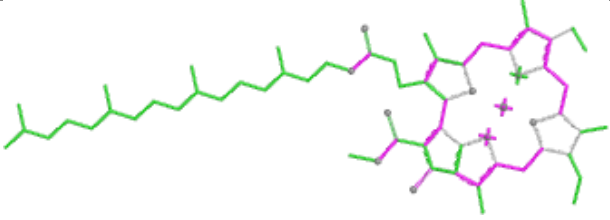
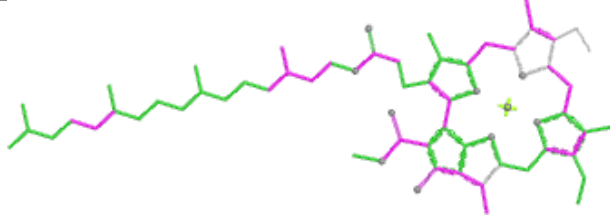
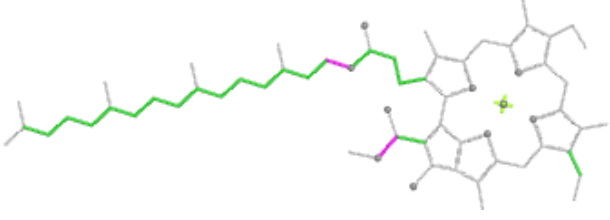
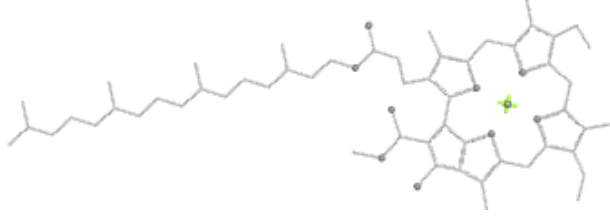
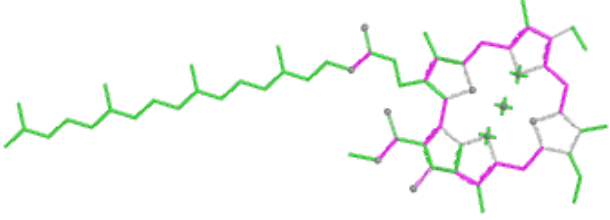
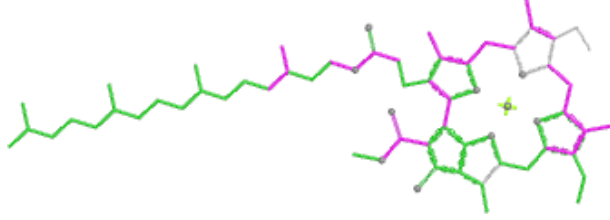
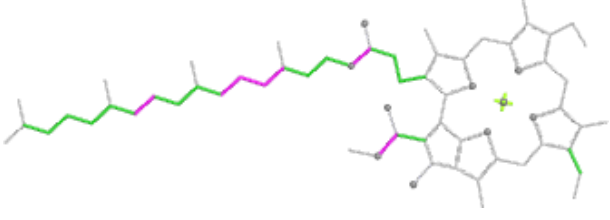
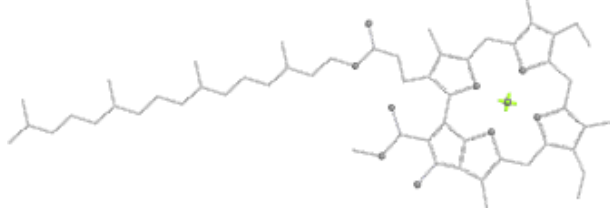
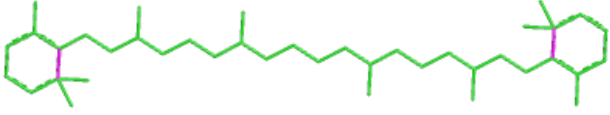
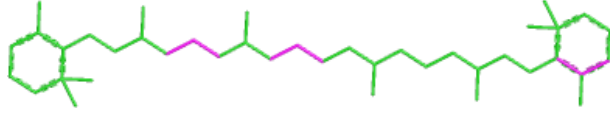
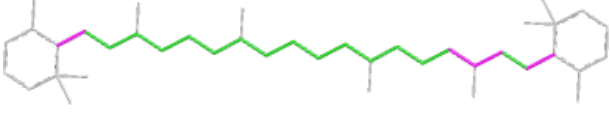
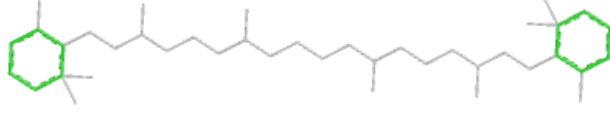
Ligand LUT a 302

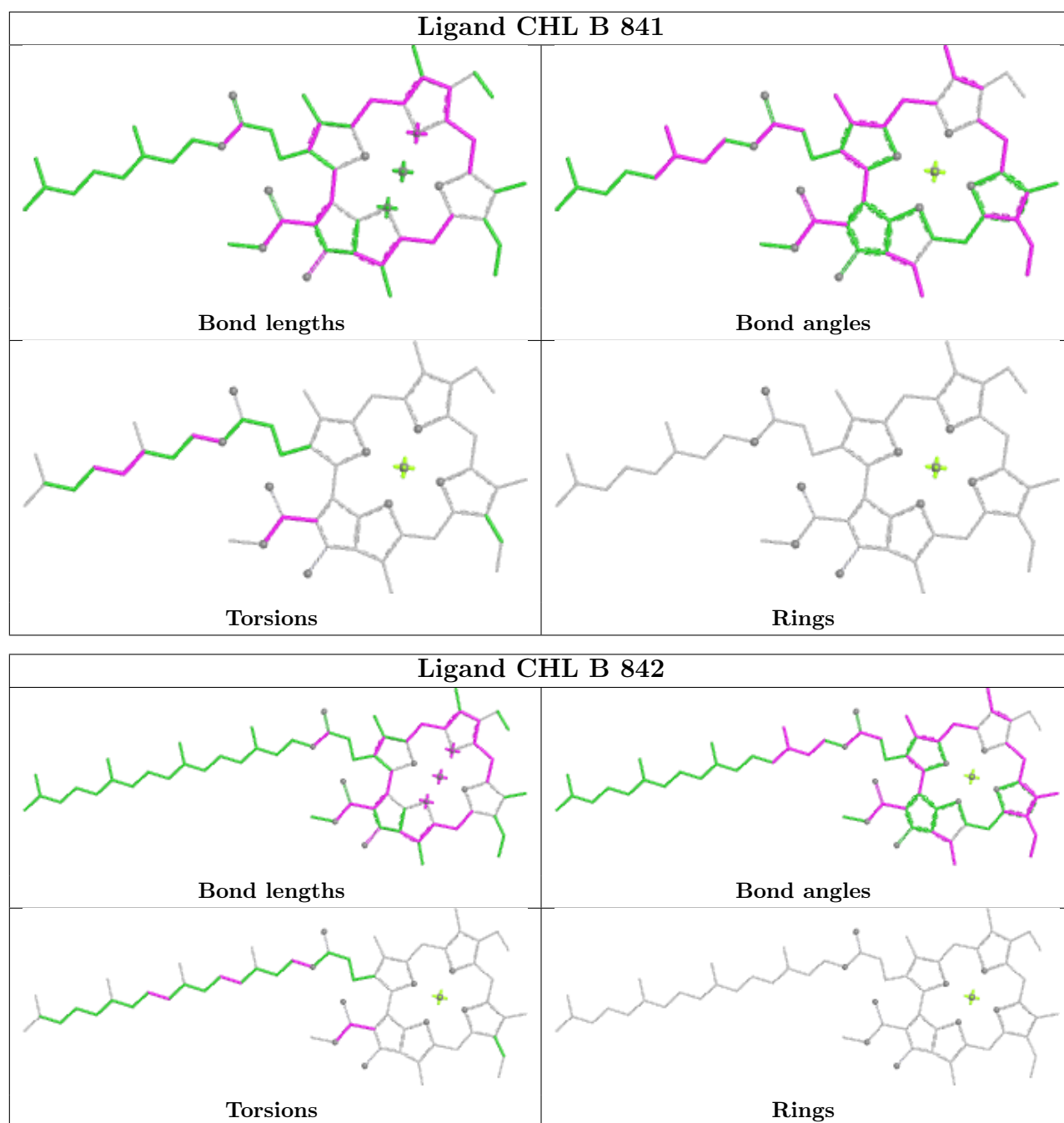


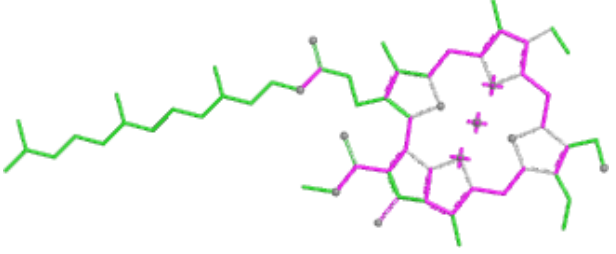
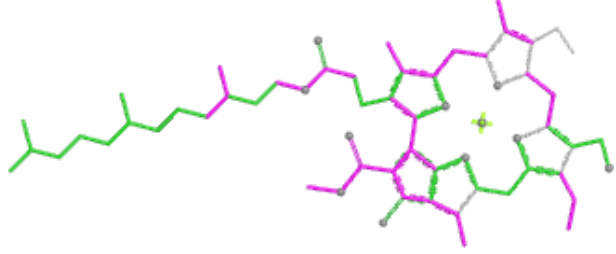
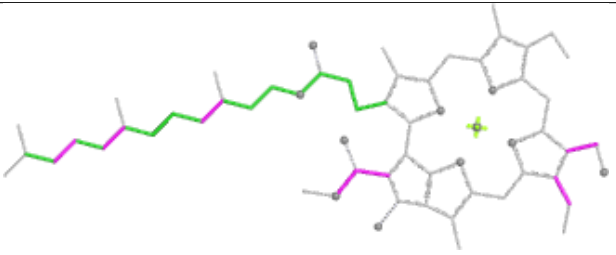
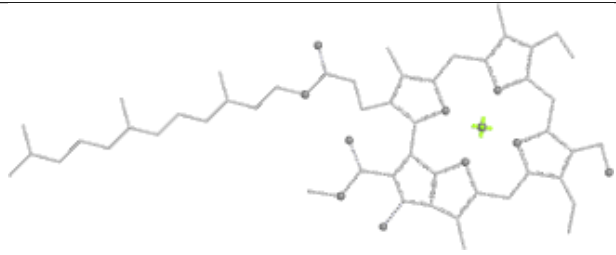
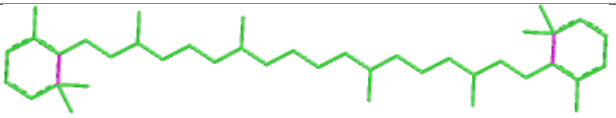
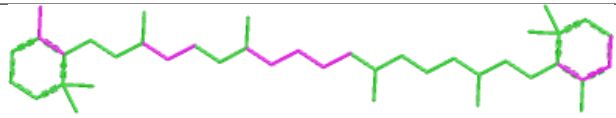
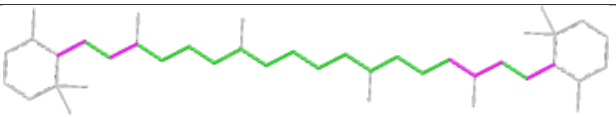
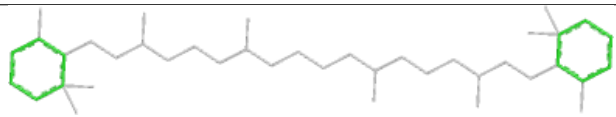
Ligand CHL K 205



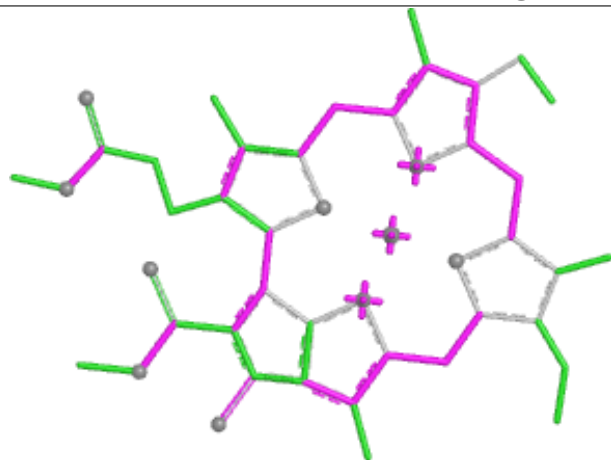


Ligand CHL B 834	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand CHL B 837	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand BCR B 807	
 Bond lengths	 Bond angles
 Torsions	 Rings

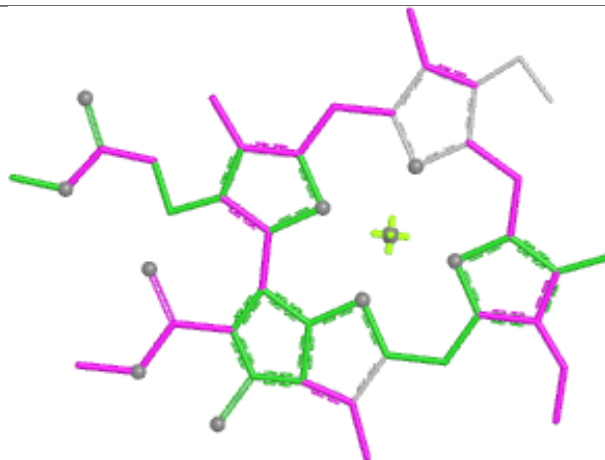


Ligand CHL 7 322	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand BCR A 806	
 Bond lengths	 Bond angles
 Torsions	 Rings

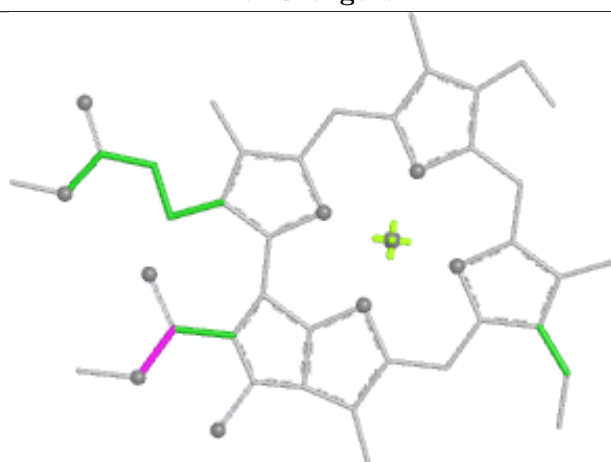
Ligand CHL K 206



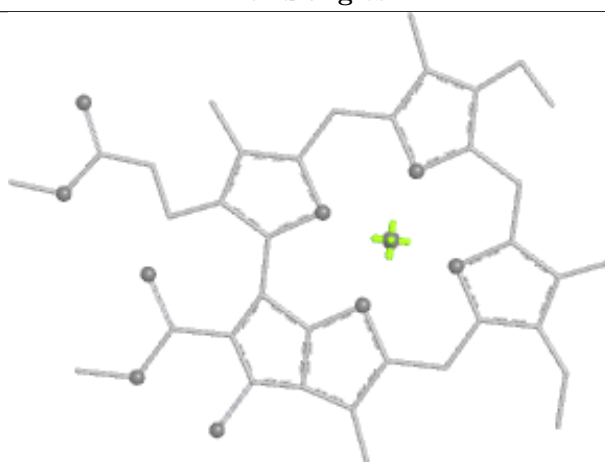
Bond lengths



Bond angles

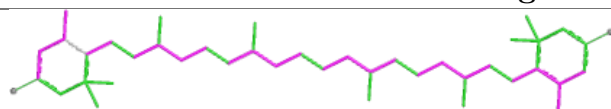


Torsions

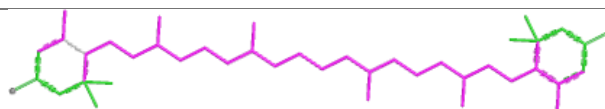


Rings

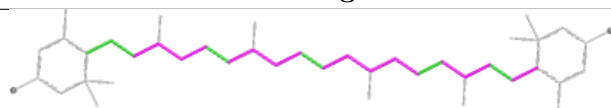
Ligand LUT 6 303



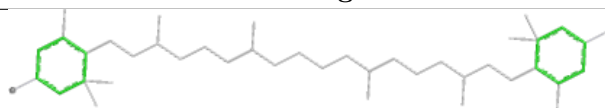
Bond lengths



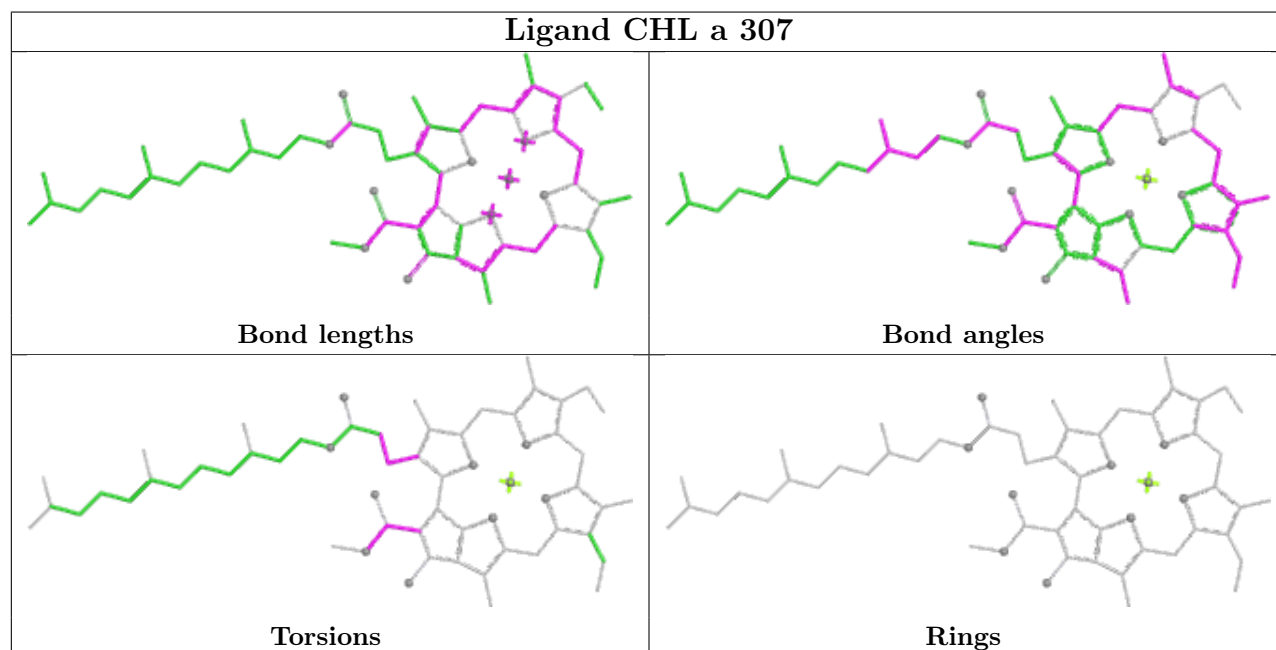
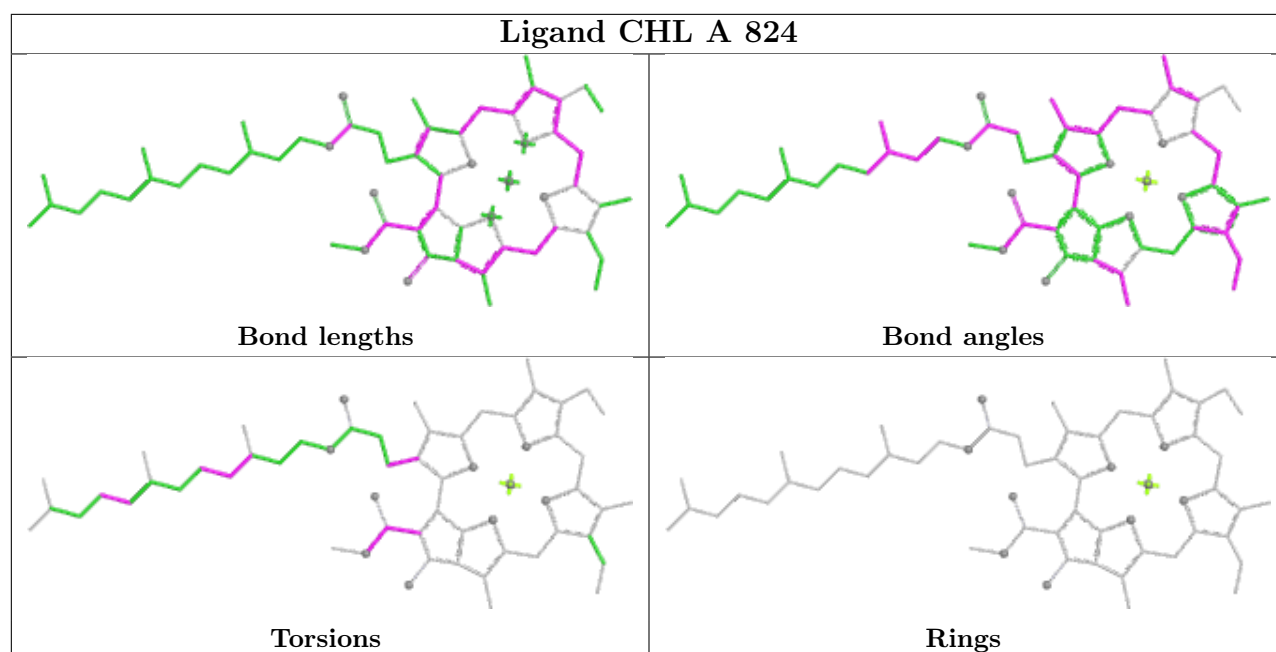
Bond angles

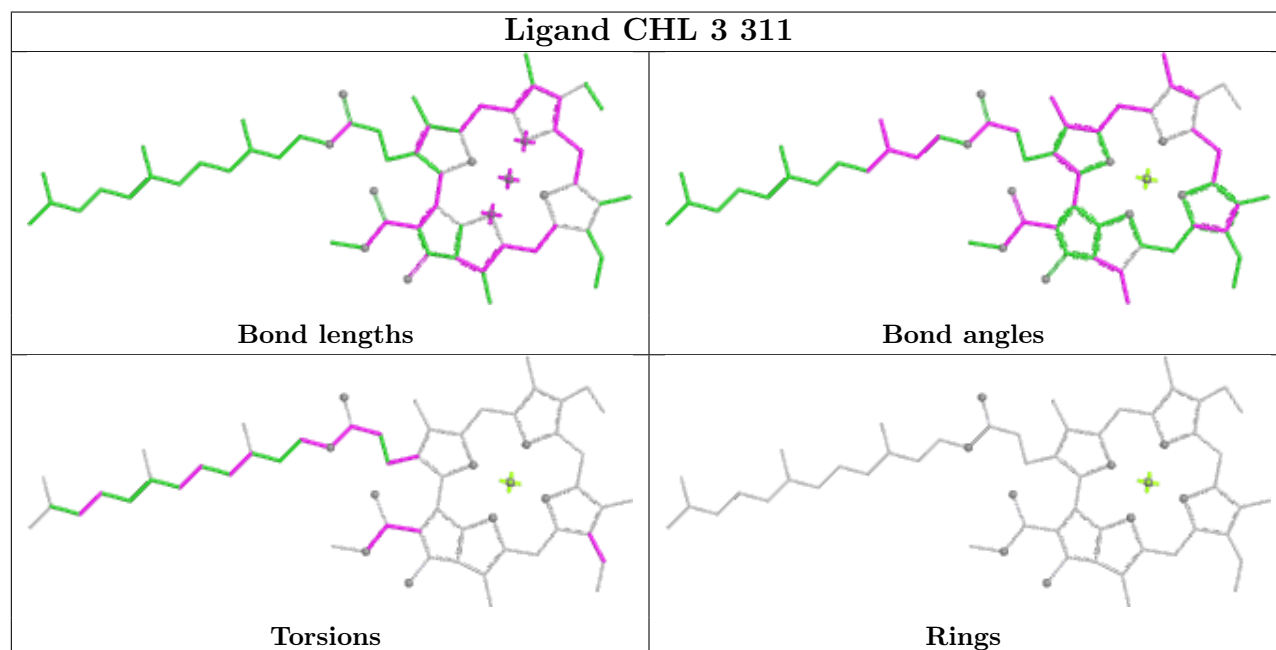
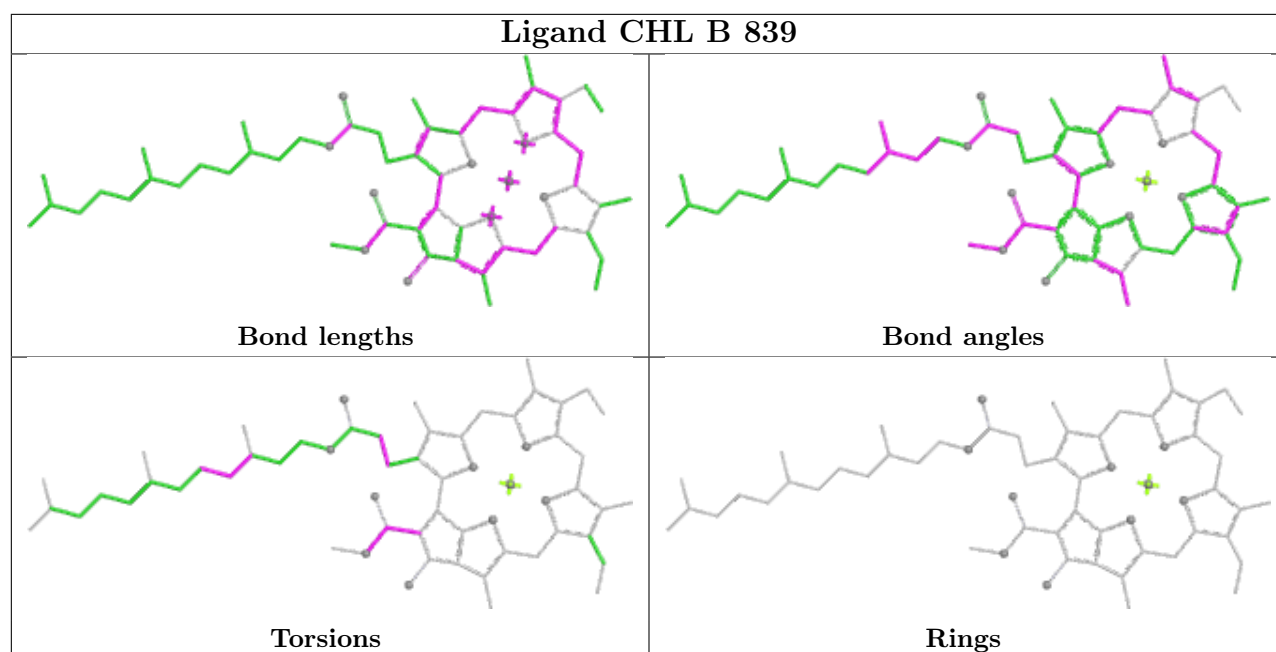


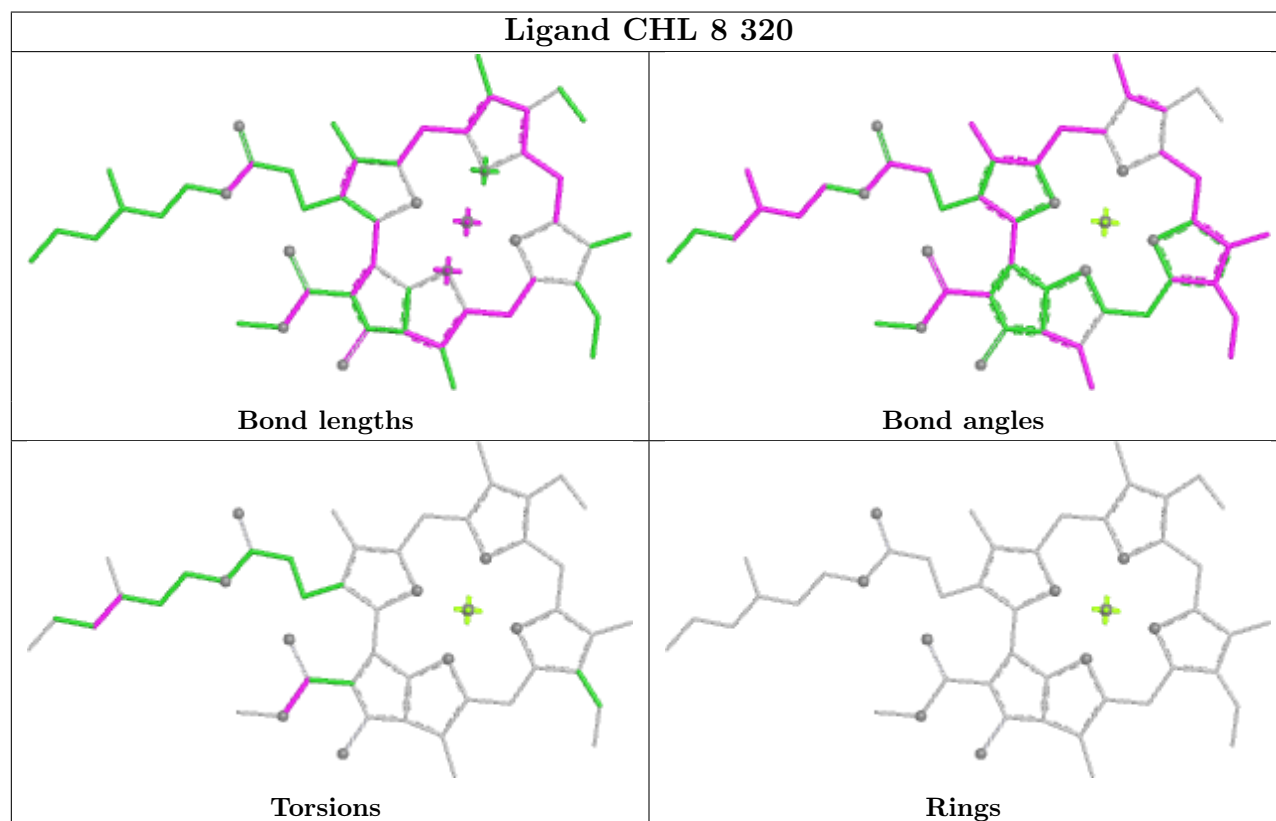
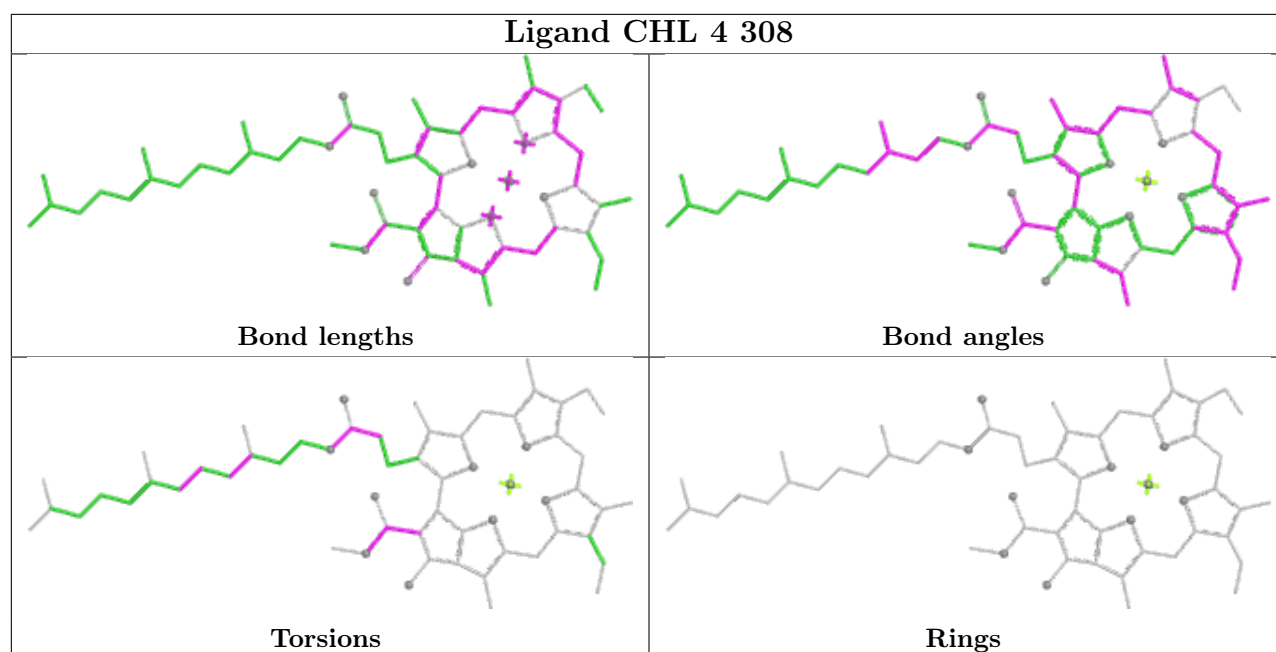
Torsions

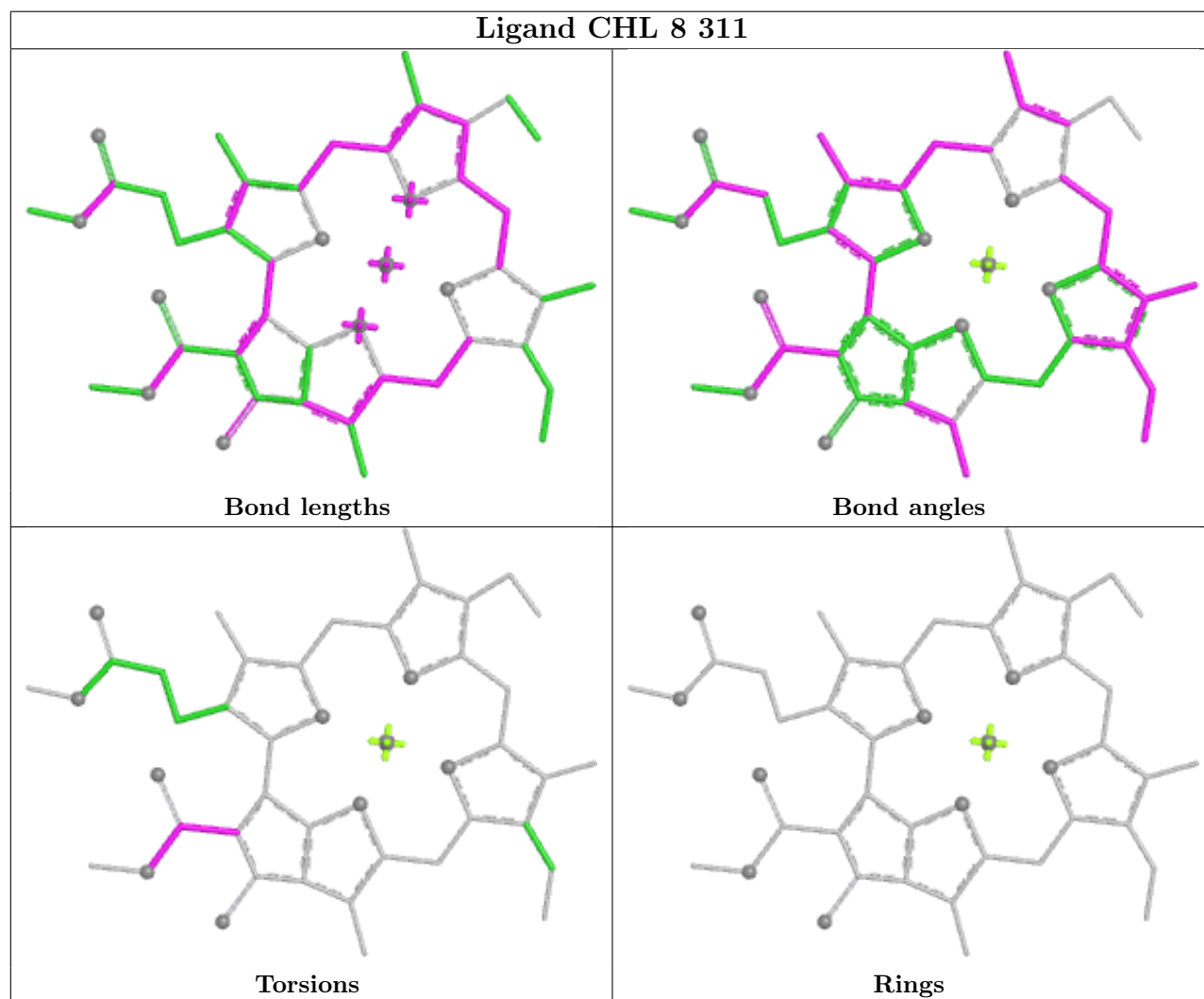
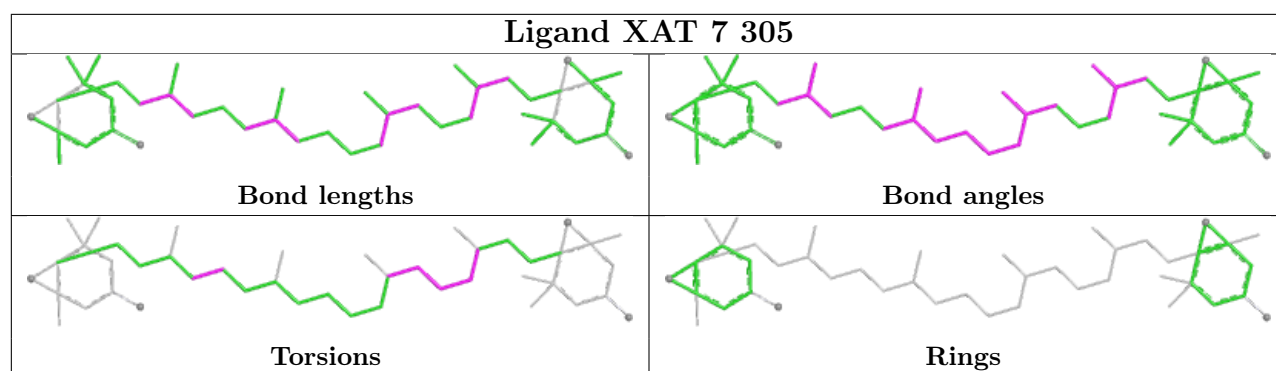


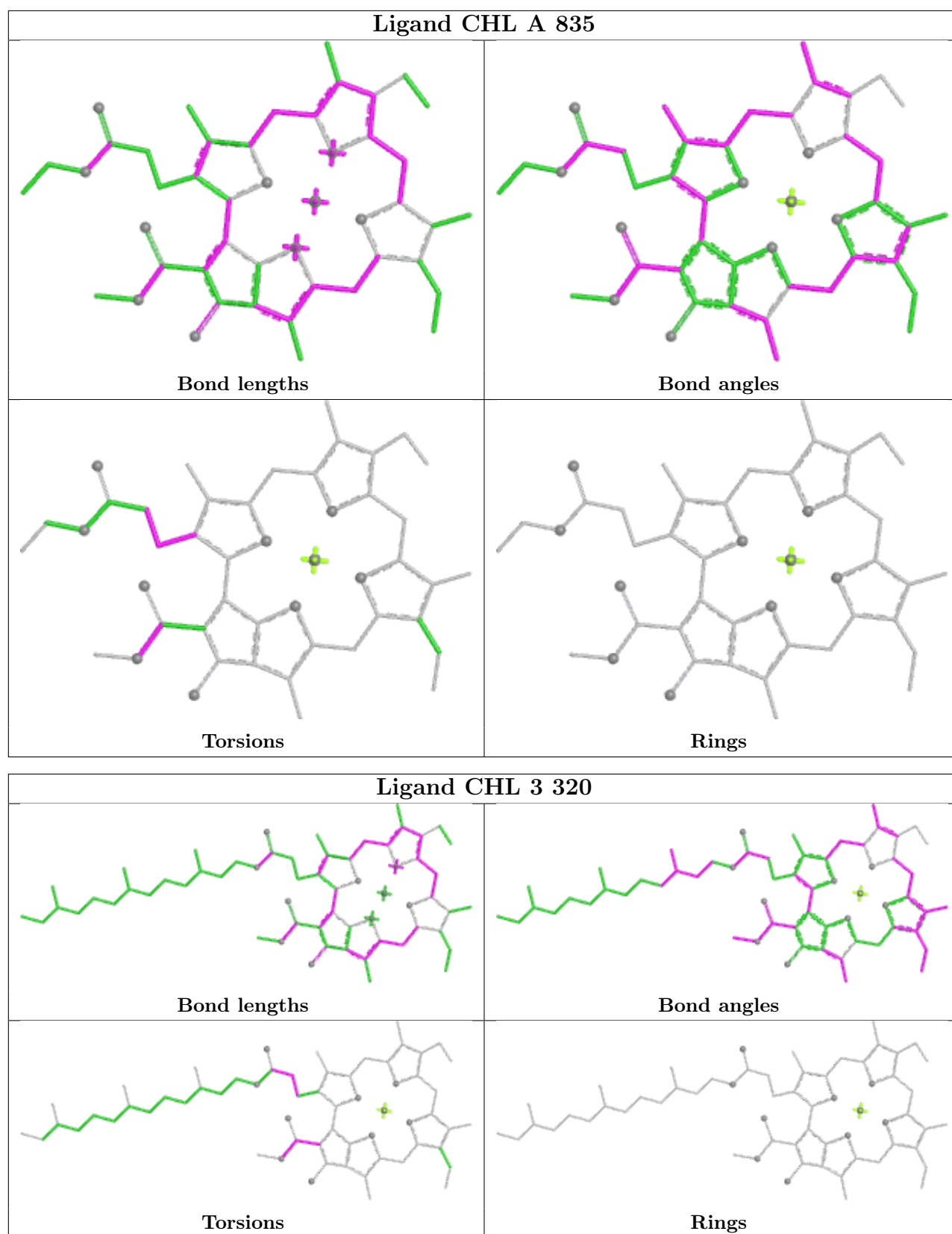
Rings

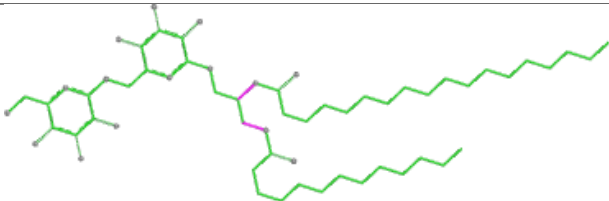
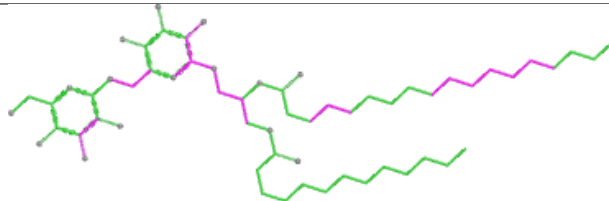
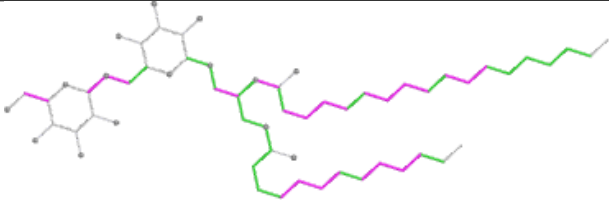
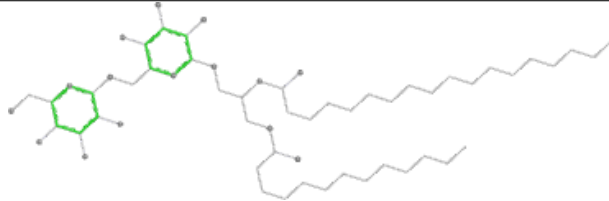


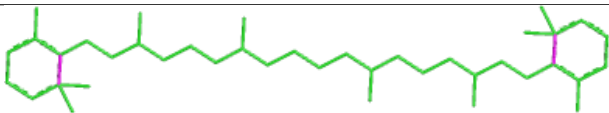
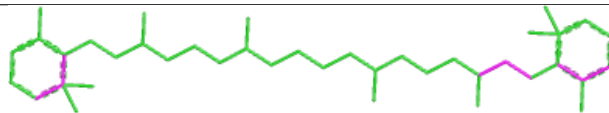
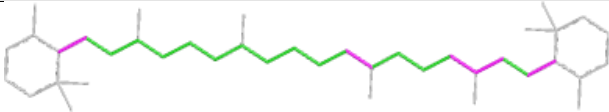
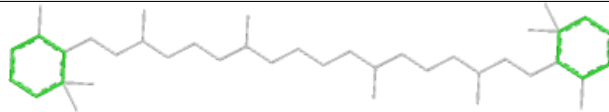


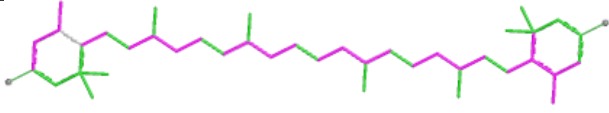
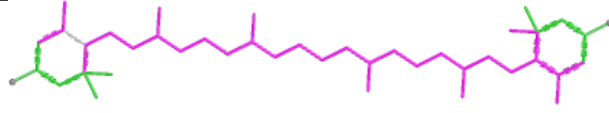
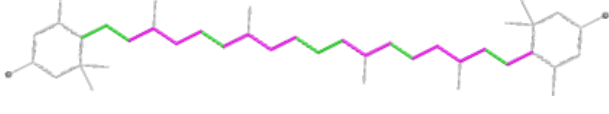
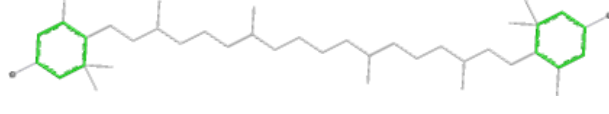




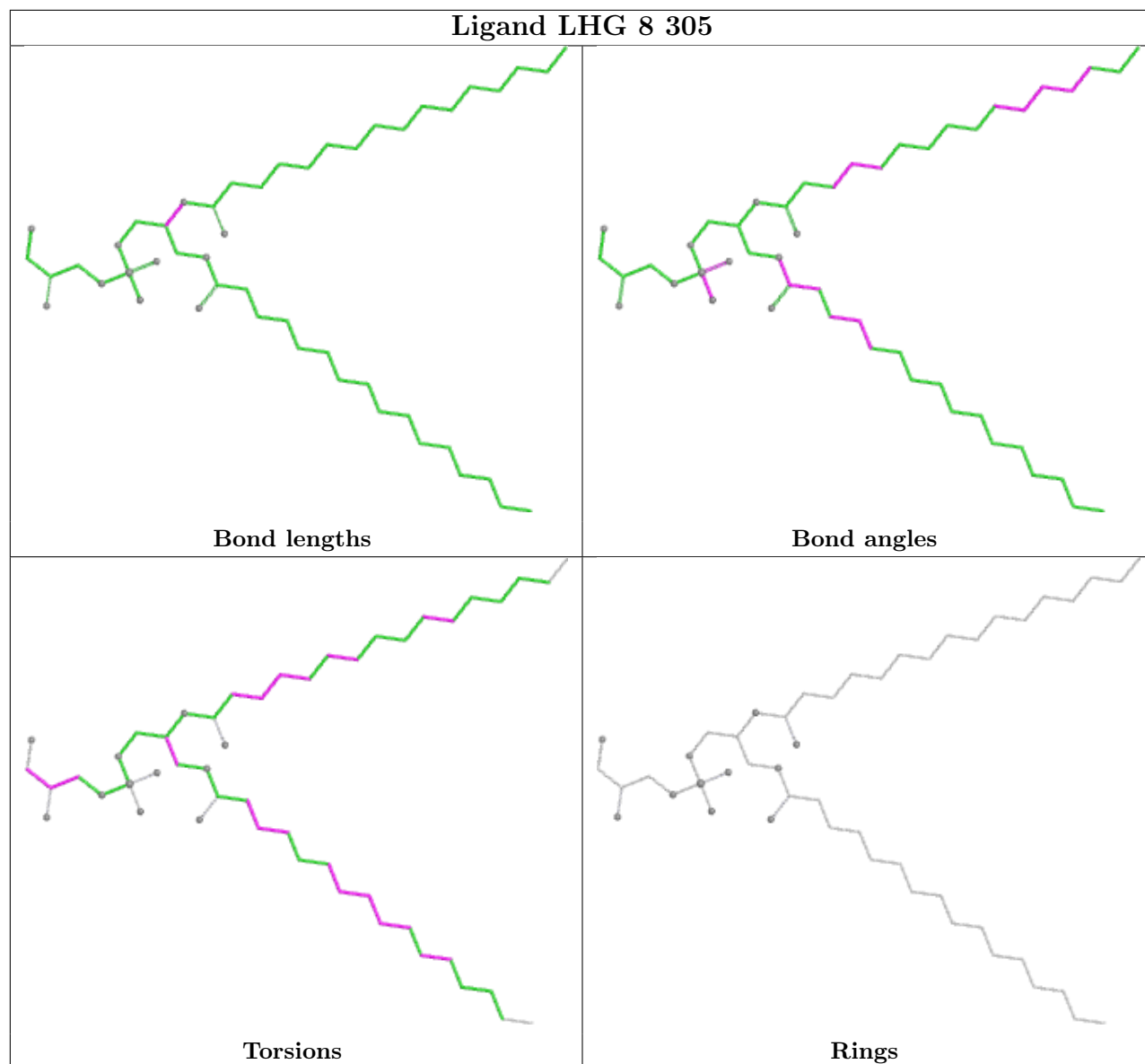


Ligand DGD B 809	
	
Bond lengths	Bond angles
	
Torsions	Rings

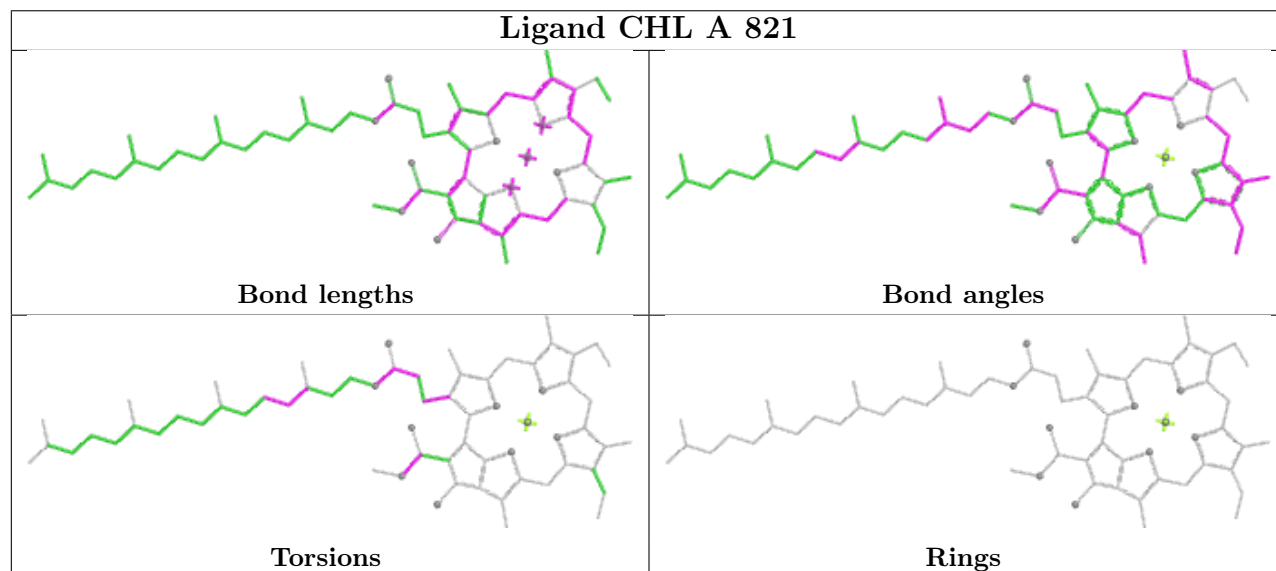
Ligand BCR A 803	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand LUT 7 304	
	
Bond lengths	Bond angles
	
Torsions	Rings

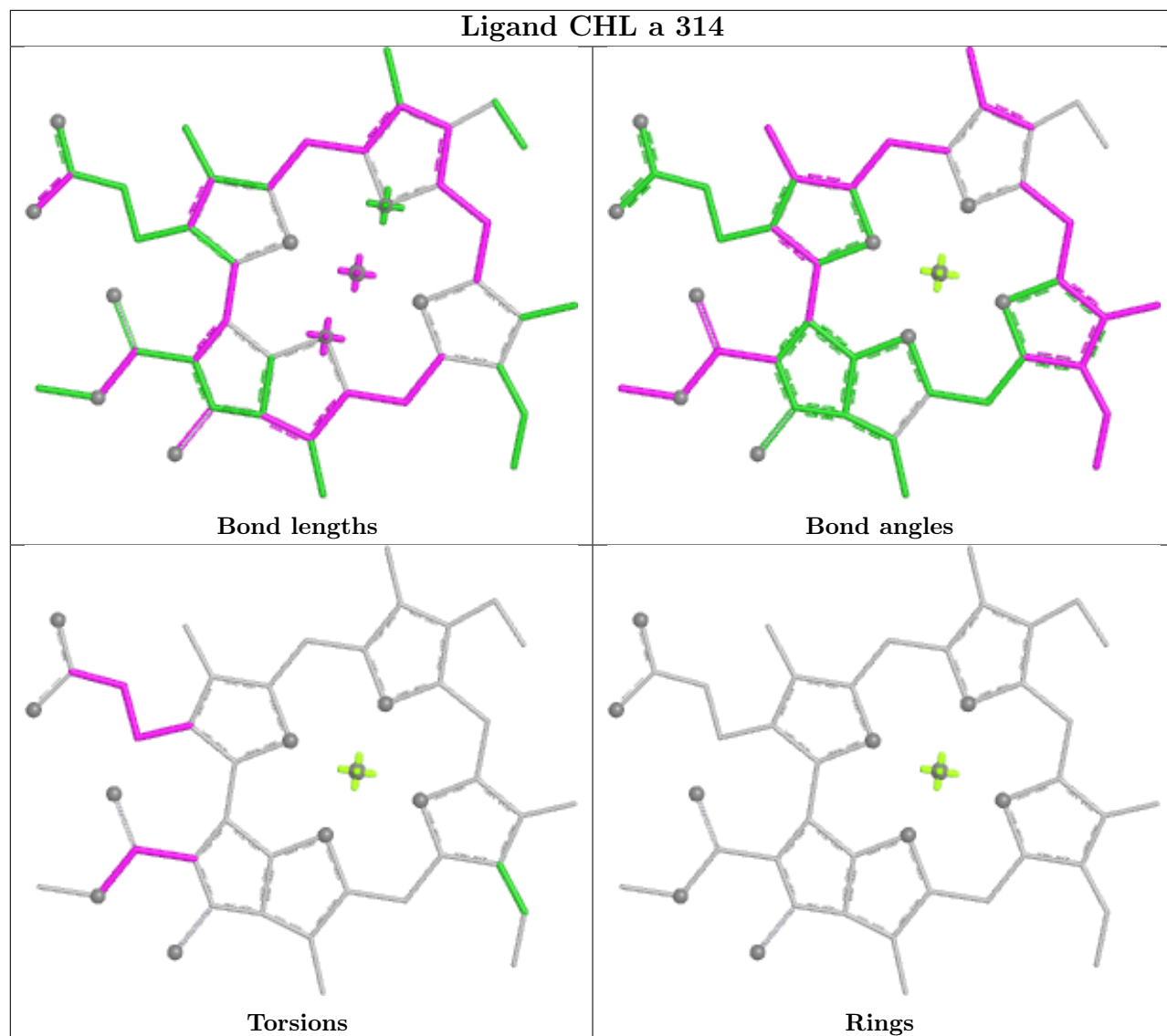
Ligand LHG 8 305



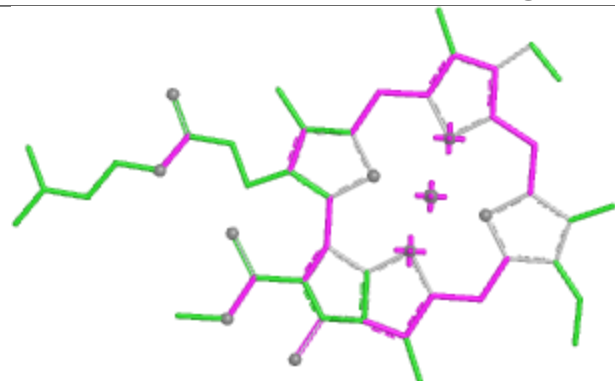
Ligand CHL A 821



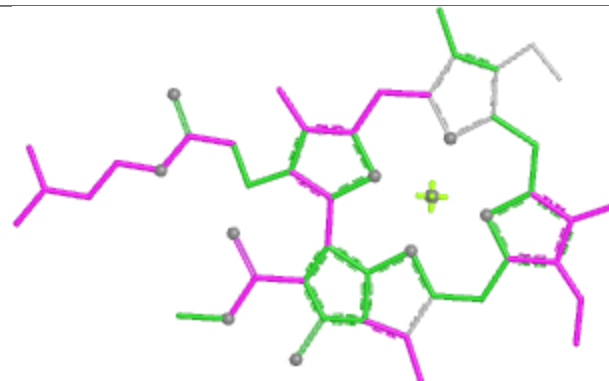
Ligand CHL a 314



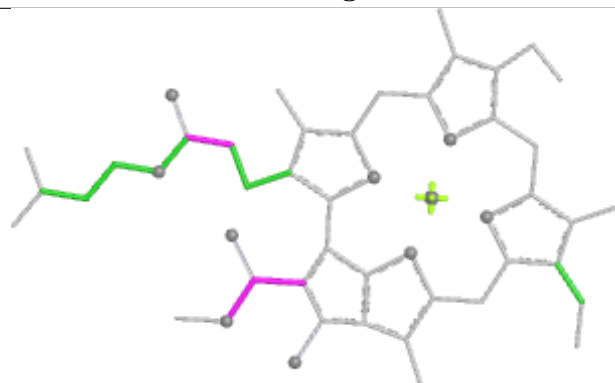
Ligand CHL 8 313



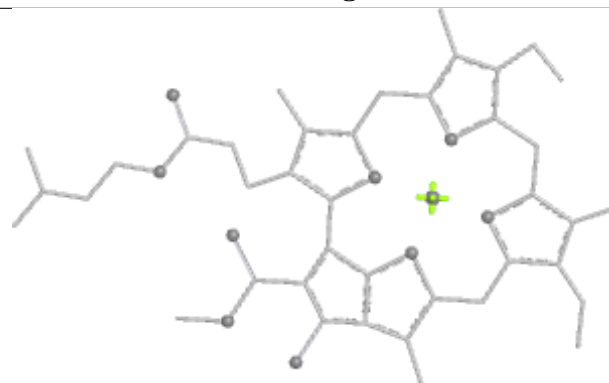
Bond lengths



Bond angles

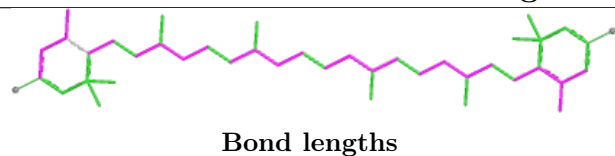


Torsions



Rings

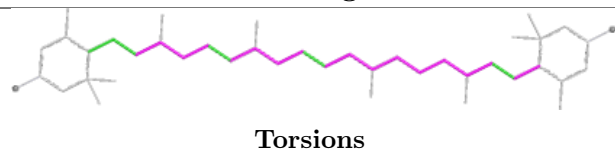
Ligand LUT 5 303



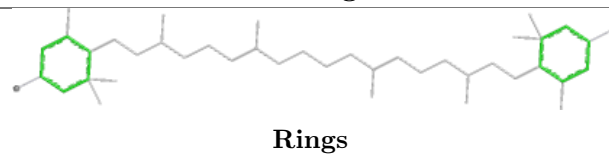
Bond lengths



Bond angles

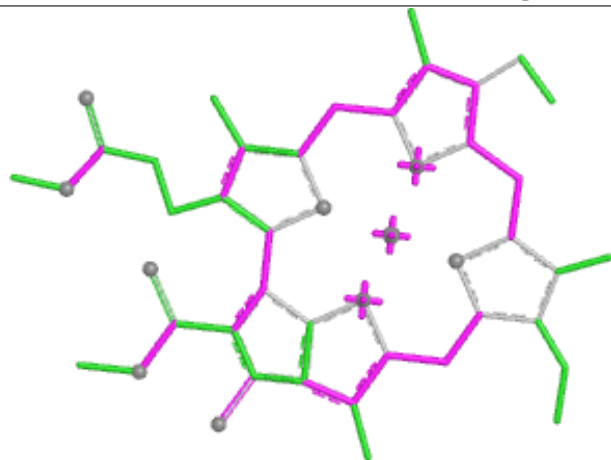


Torsions

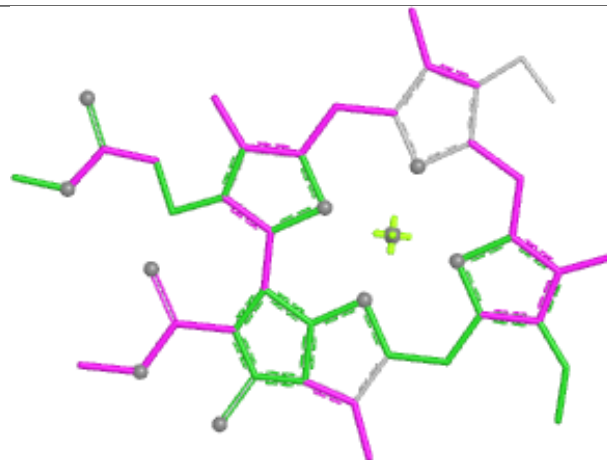


Rings

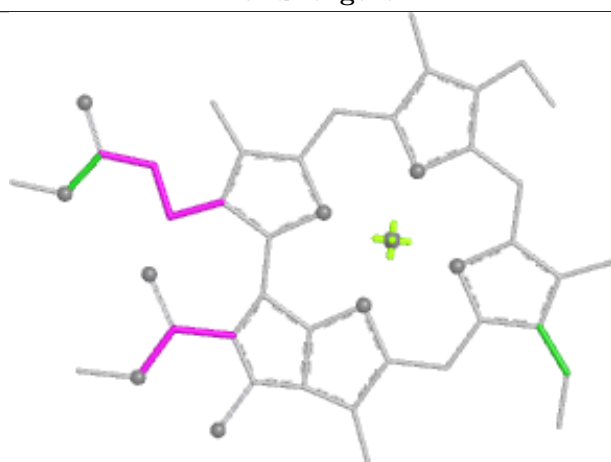
Ligand CHL b 313



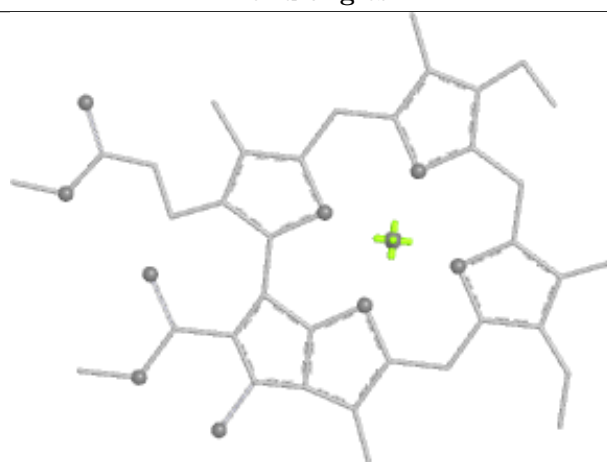
Bond lengths



Bond angles

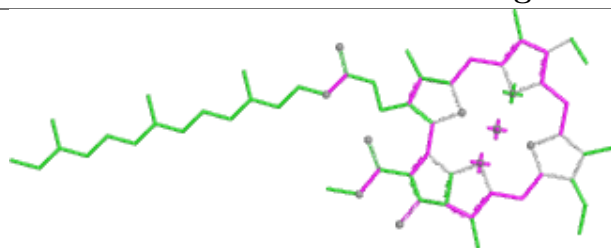


Torsions

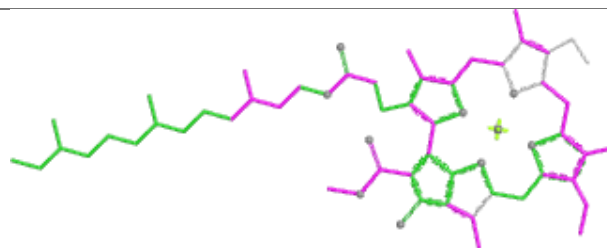


Rings

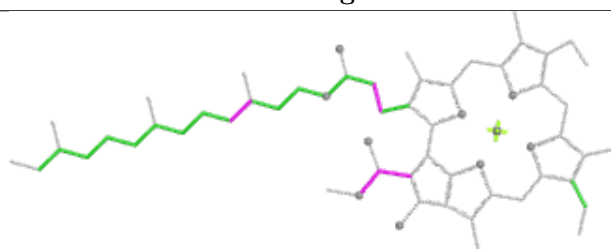
Ligand CHL B 816



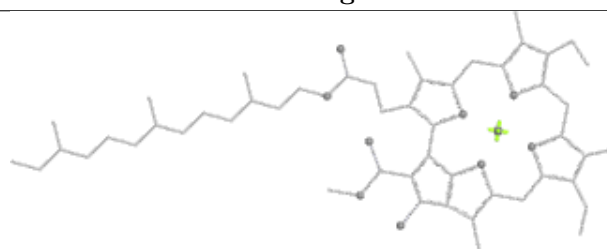
Bond lengths



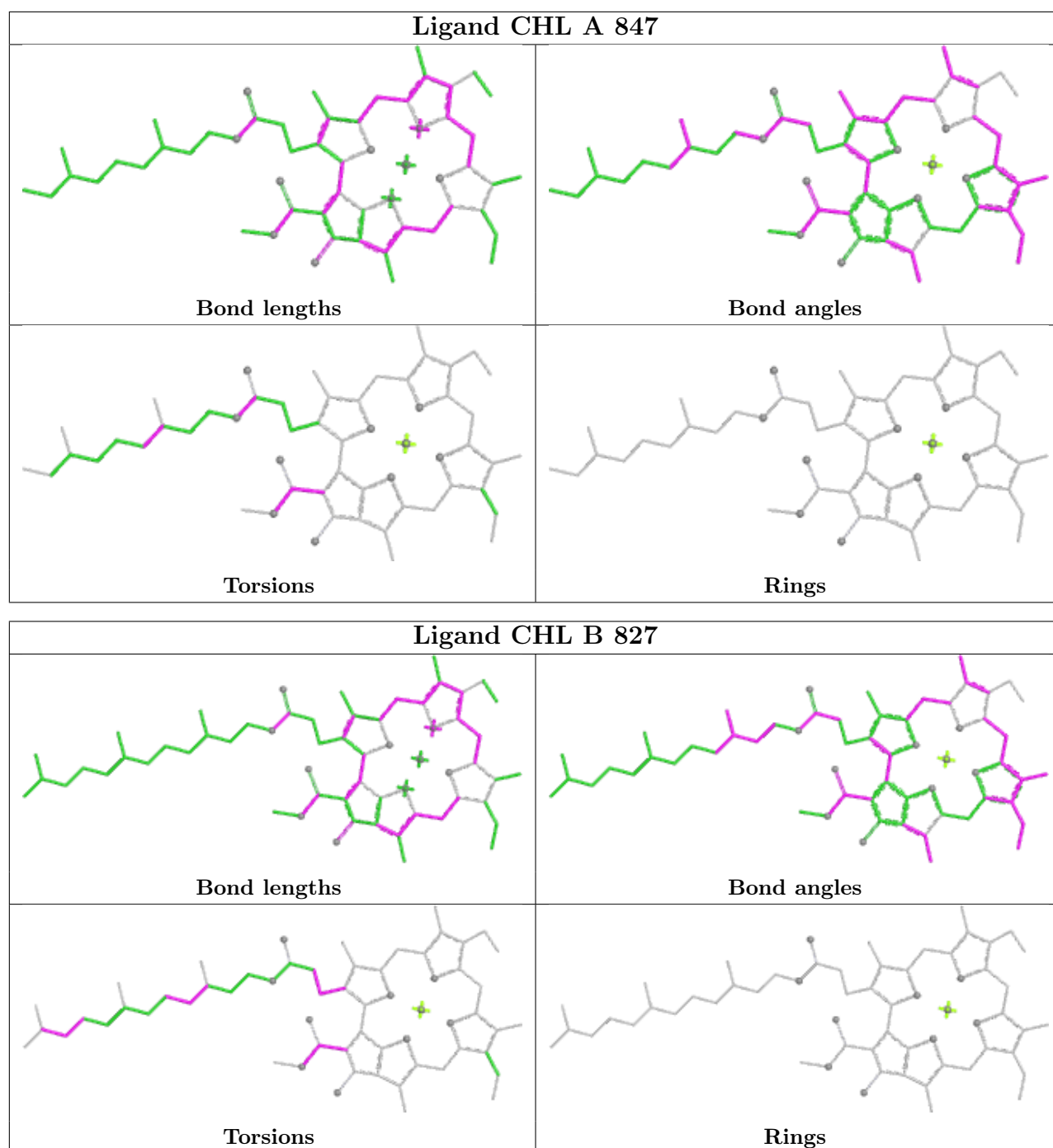
Bond angles

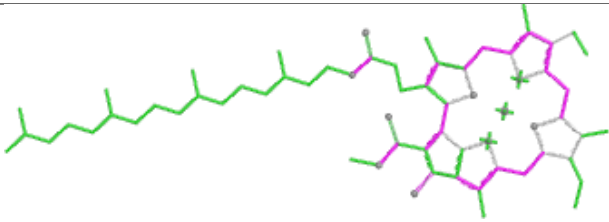
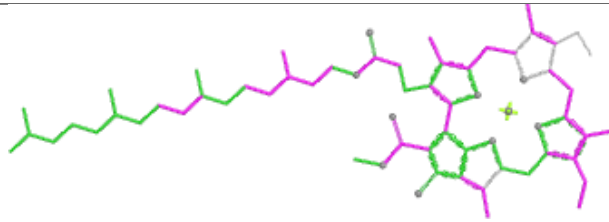
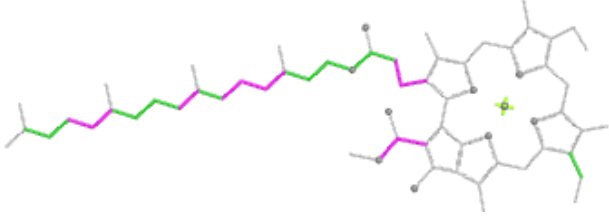
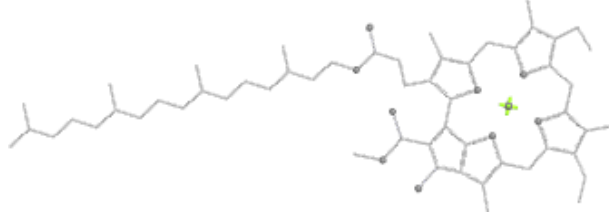


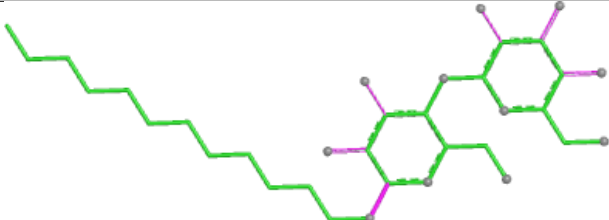
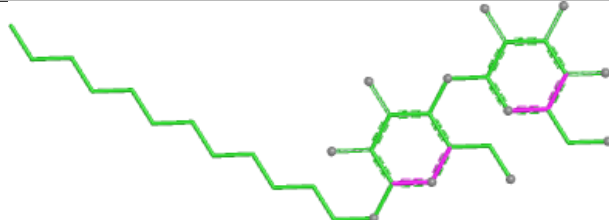
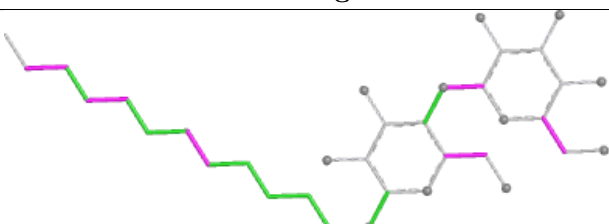
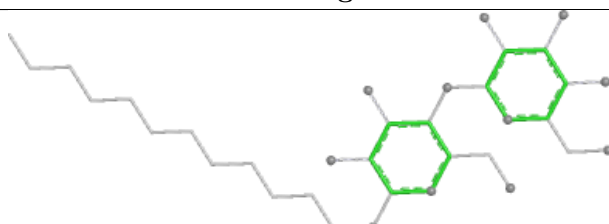
Torsions

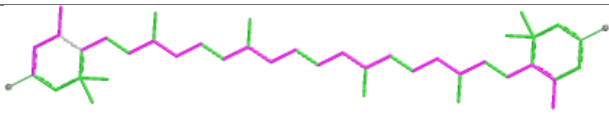
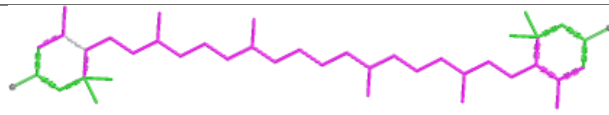
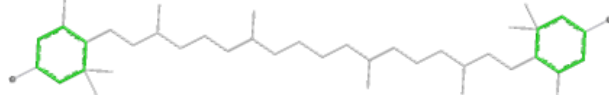


Rings

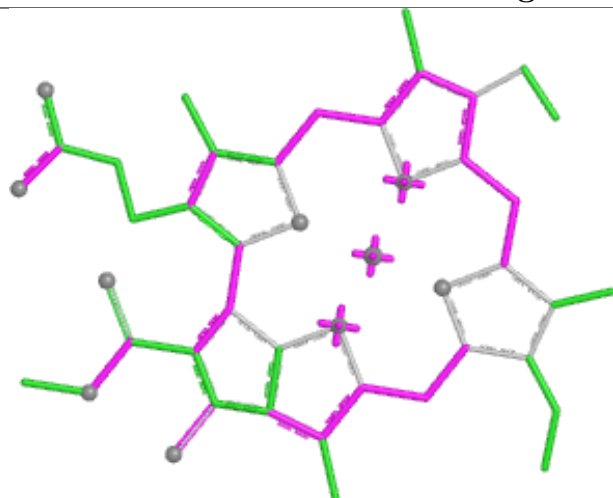


Ligand CHL A 823	
	
Bond lengths	Bond angles
	
Torsions	Rings

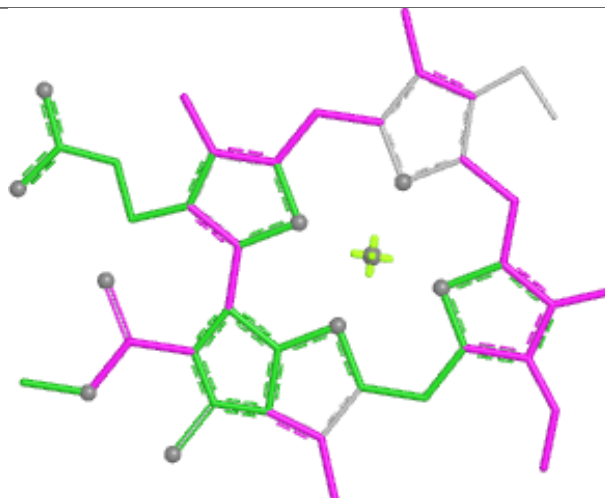
Ligand LMT A 808	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand LUT 3 305	
	
Bond lengths	Bond angles
	
Torsions	Rings

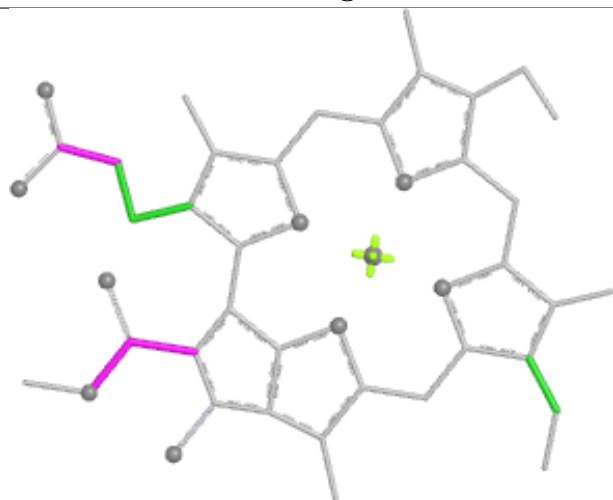
Ligand CHL 5 314



Bond lengths



Bond angles

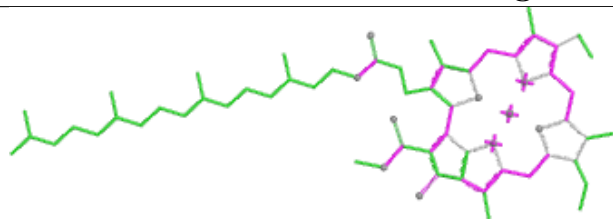


Torsions

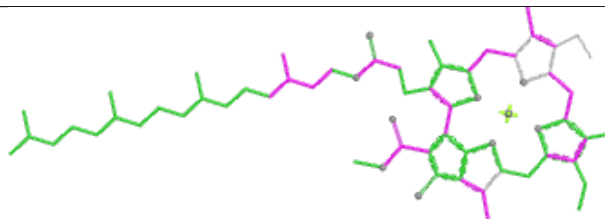


Rings

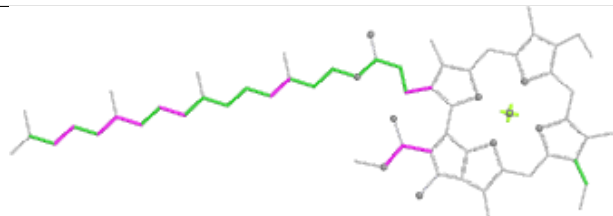
Ligand CHL B 814



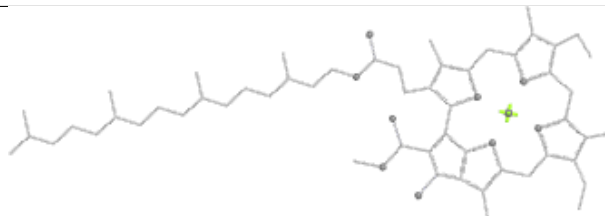
Bond lengths



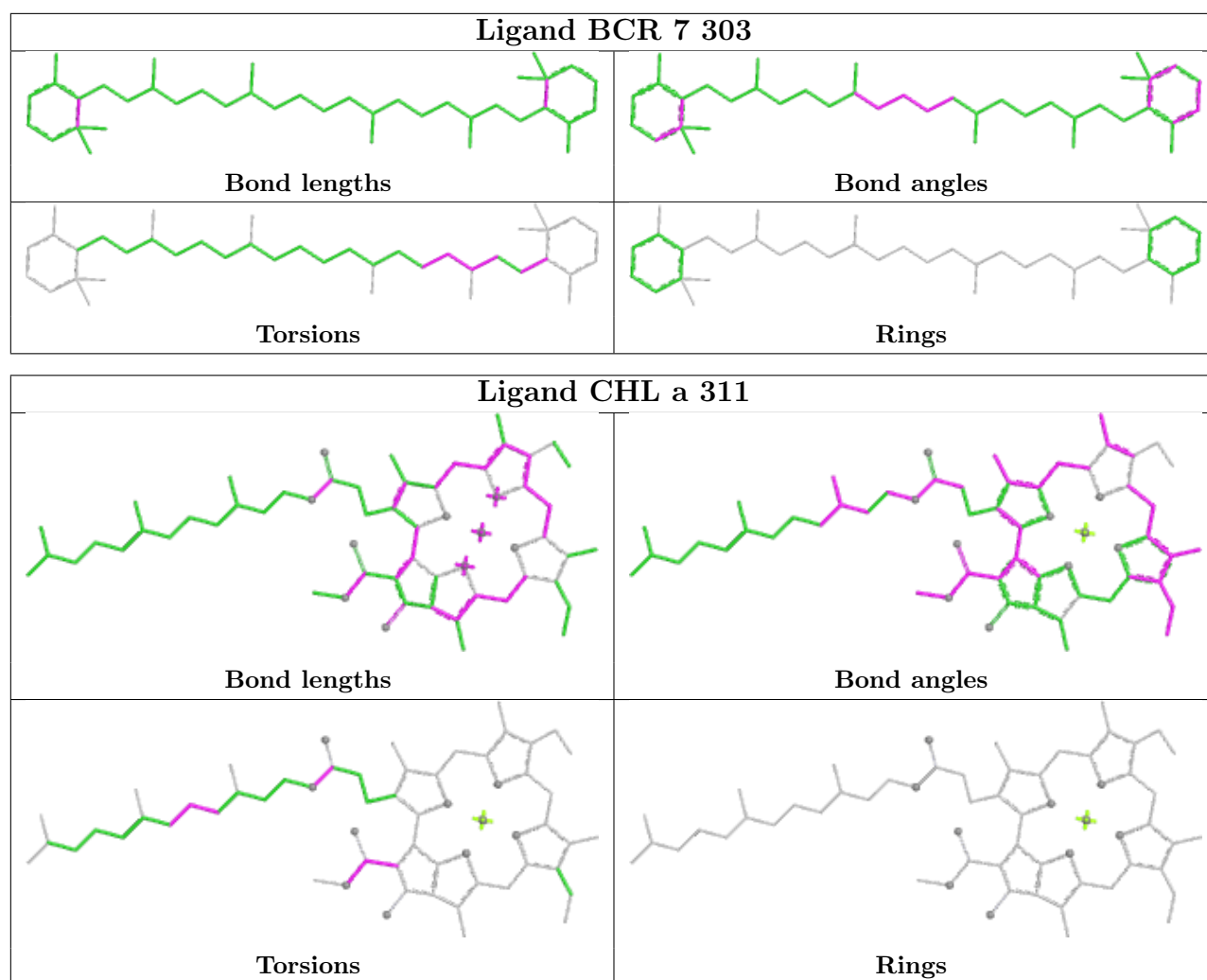
Bond angles



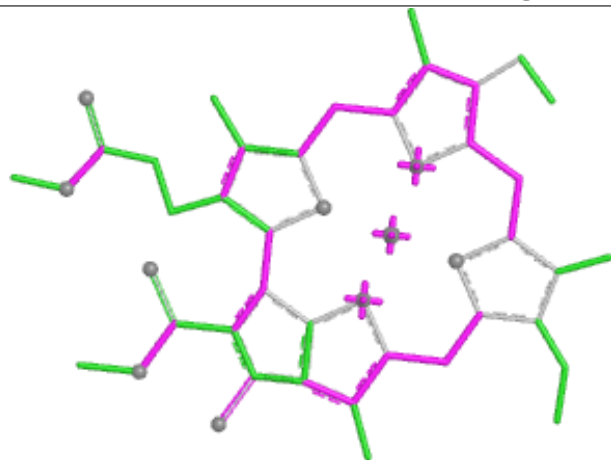
Torsions



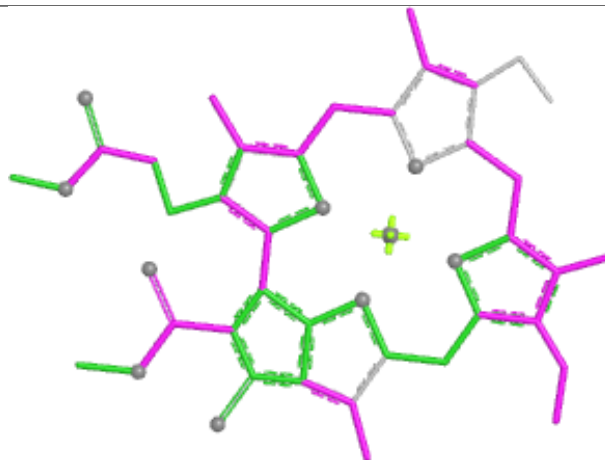
Rings



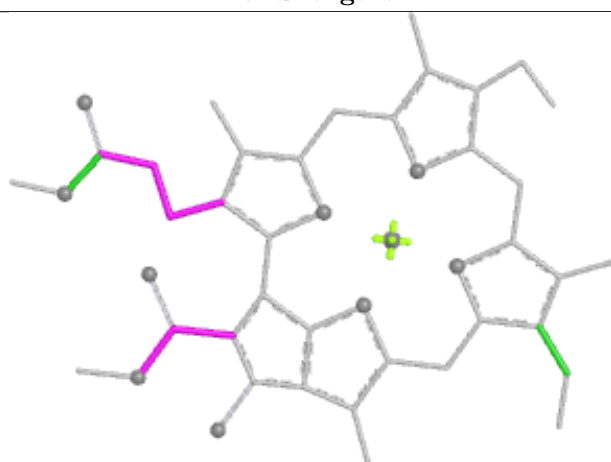
Ligand CHL 6 305



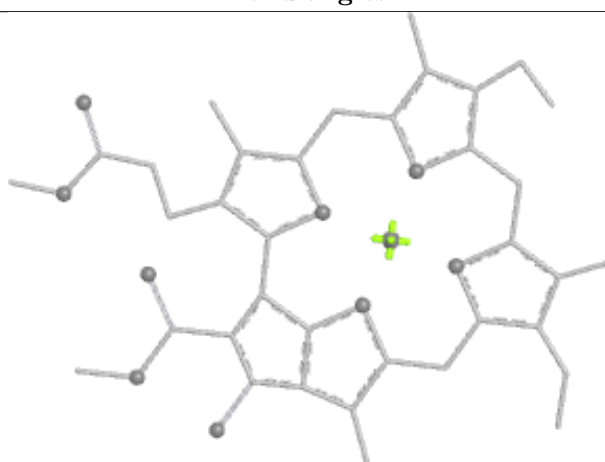
Bond lengths



Bond angles

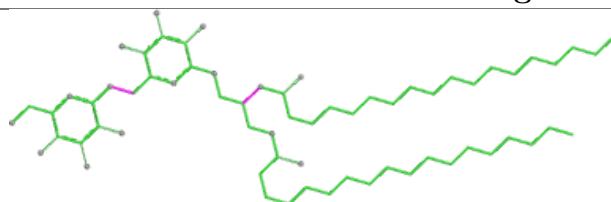


Torsions

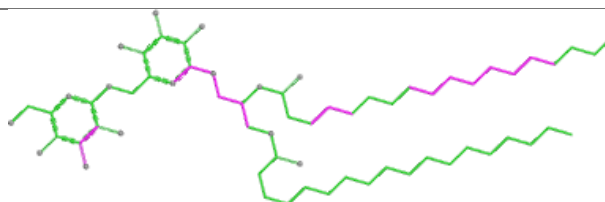


Rings

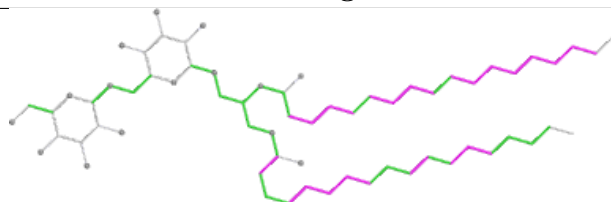
Ligand DGD 7 307



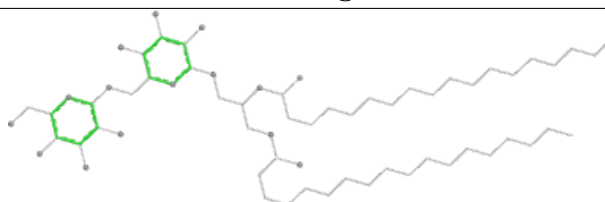
Bond lengths



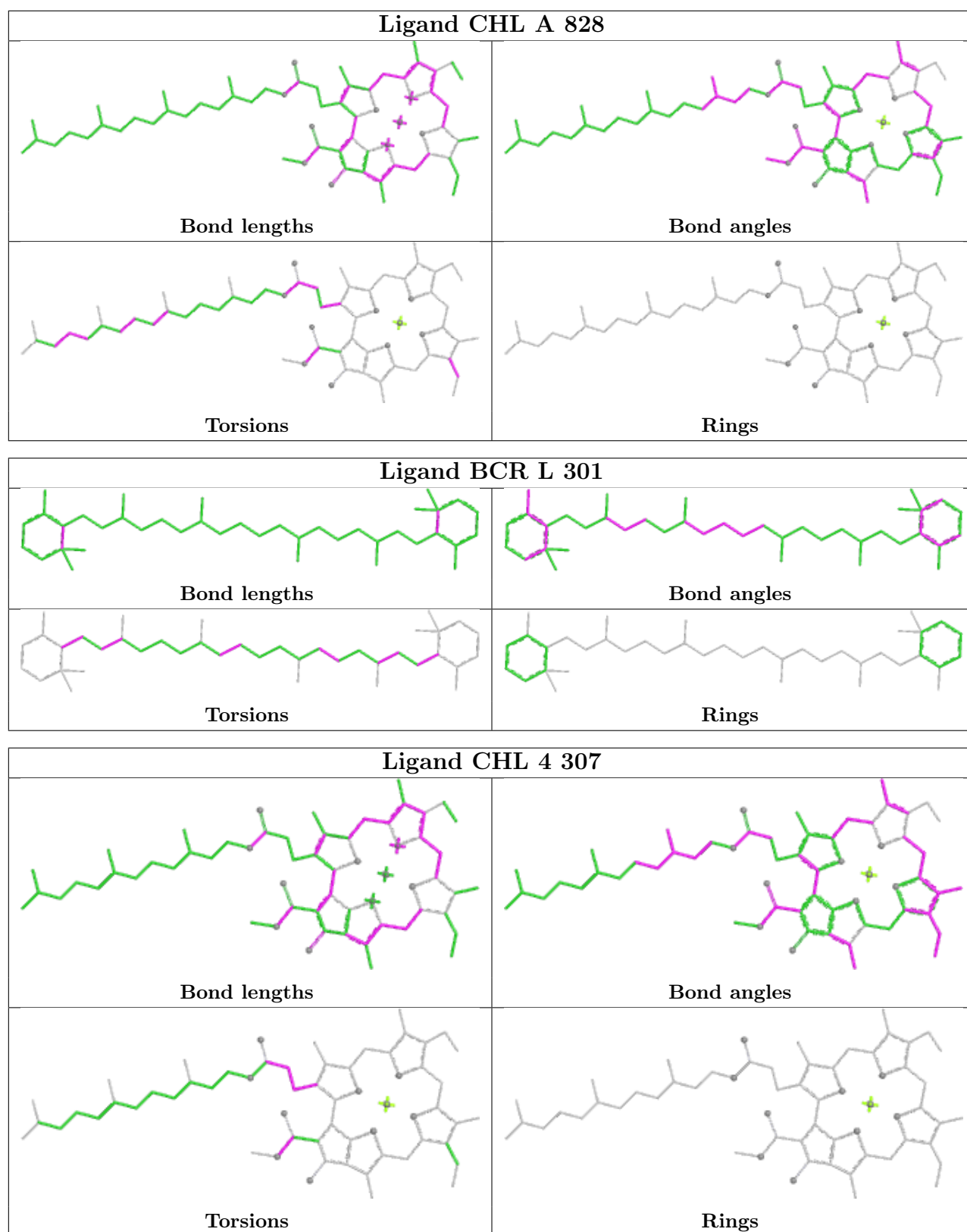
Bond angles

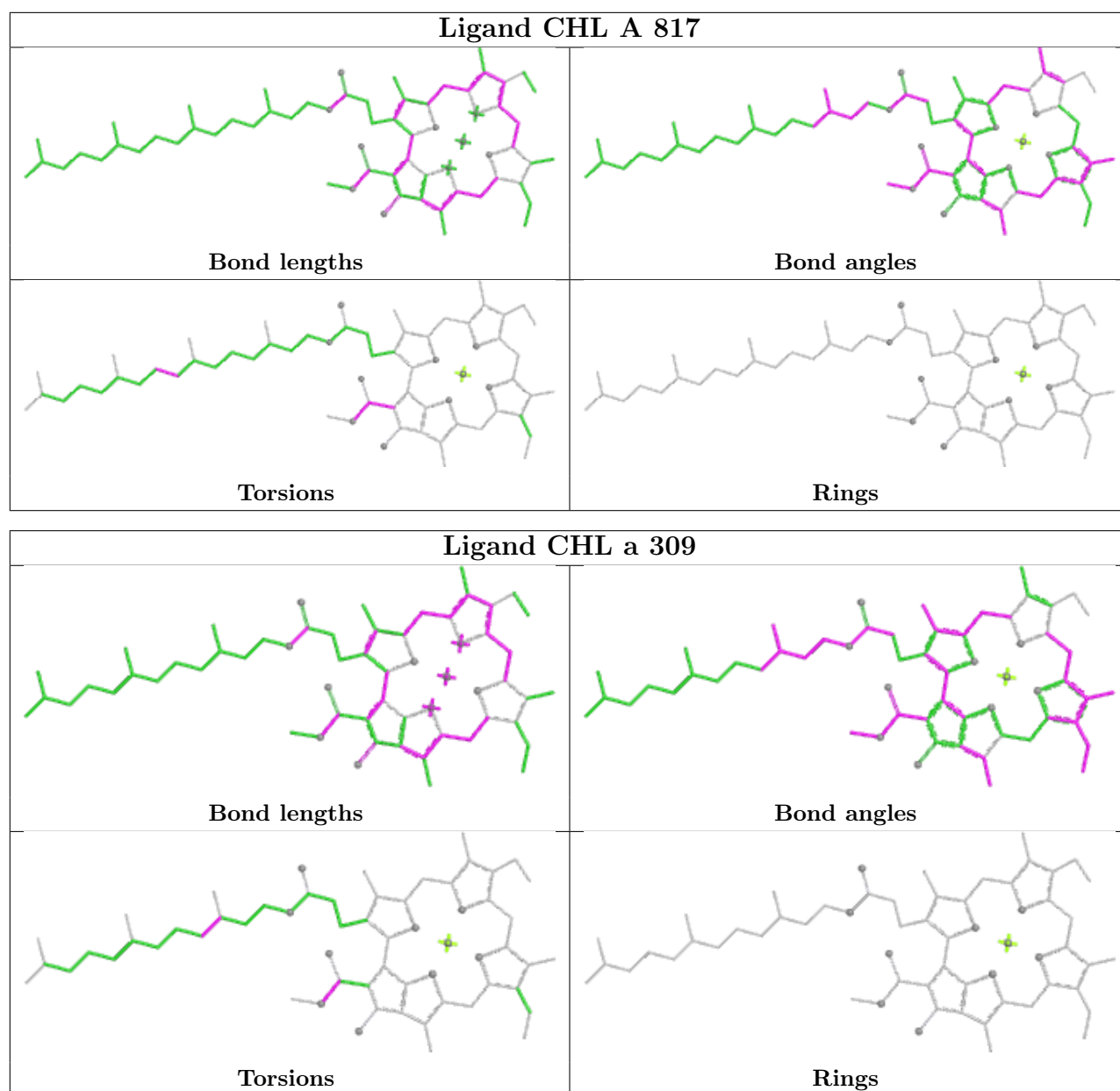


Torsions

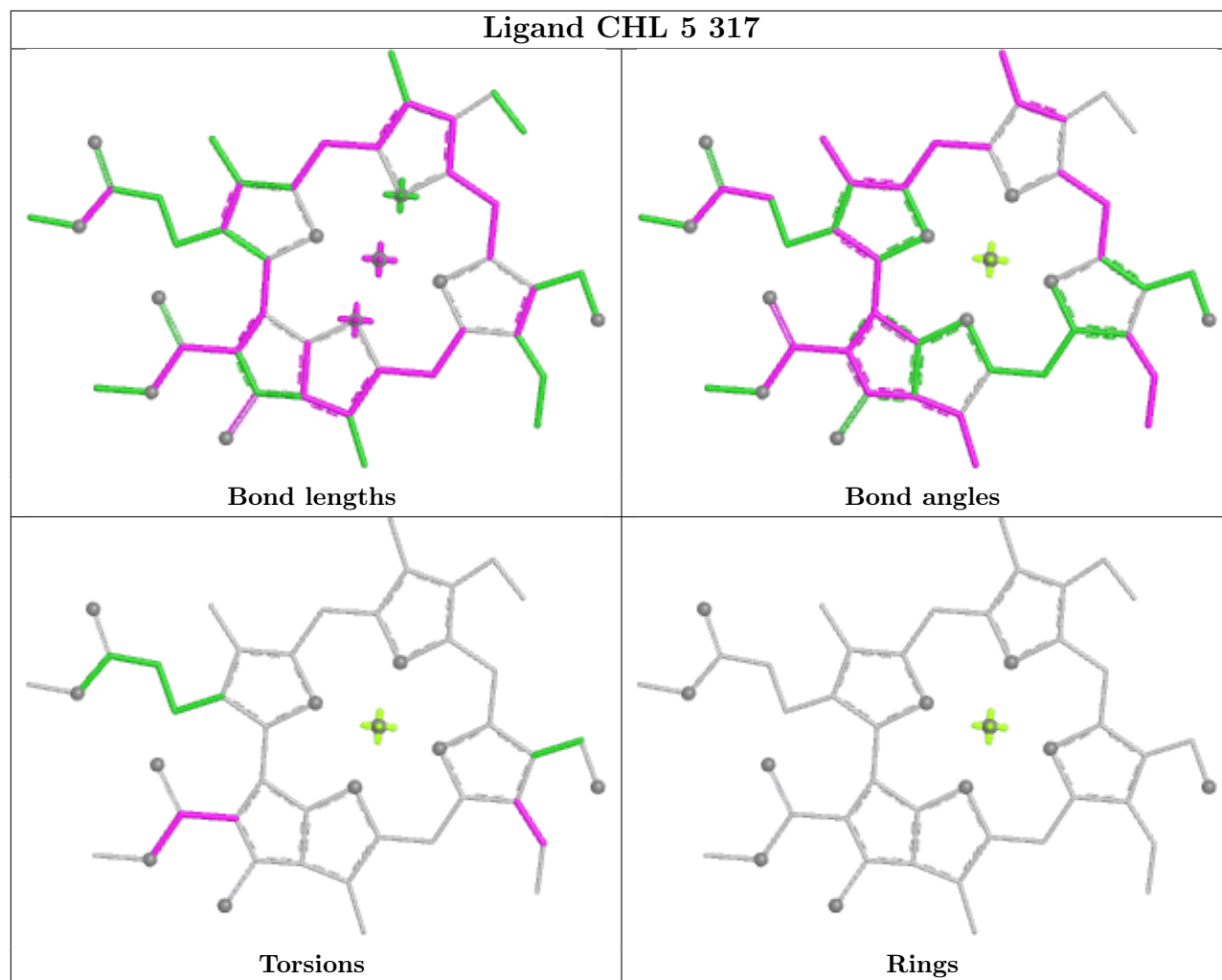


Rings

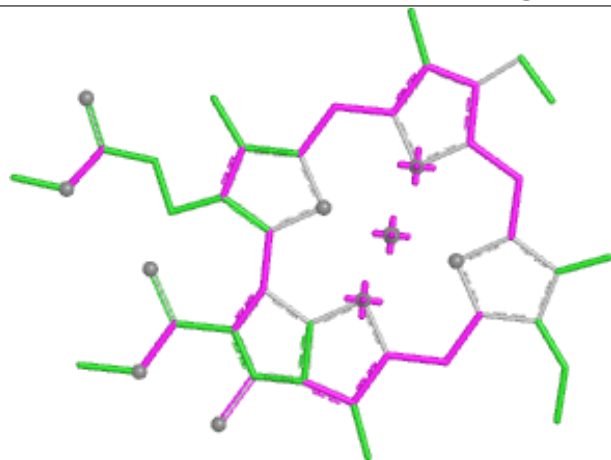




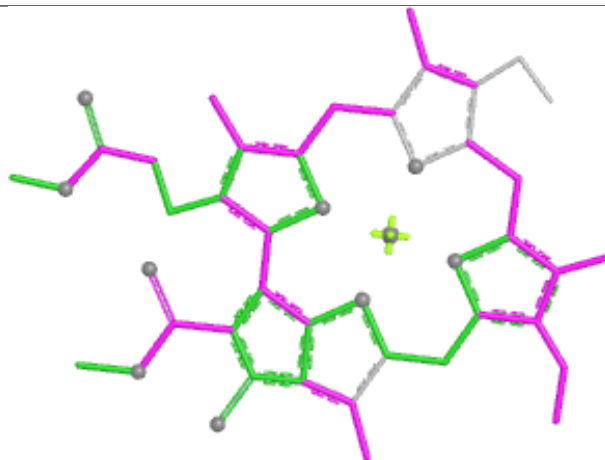
Ligand CHL 5 317



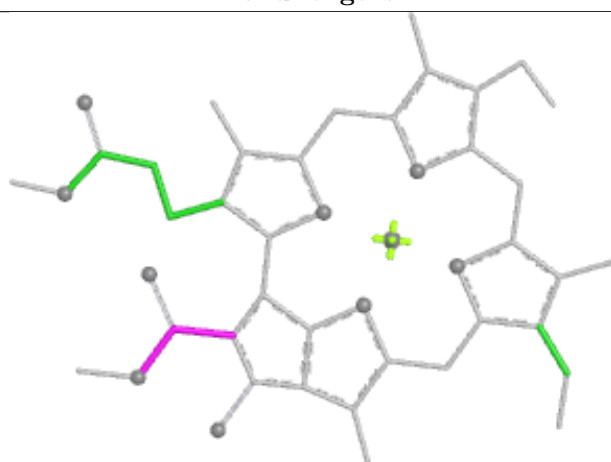
Ligand CHL 5 321



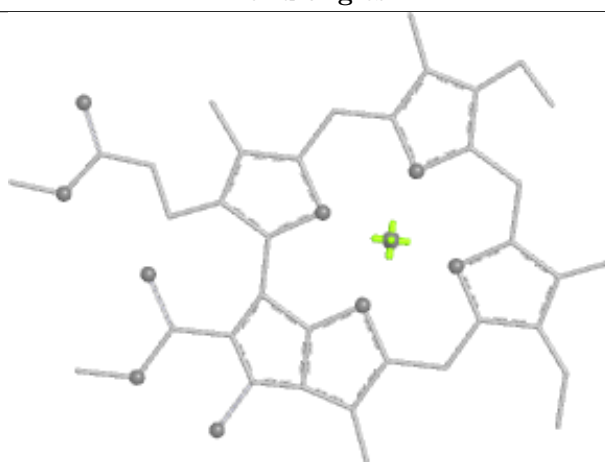
Bond lengths



Bond angles

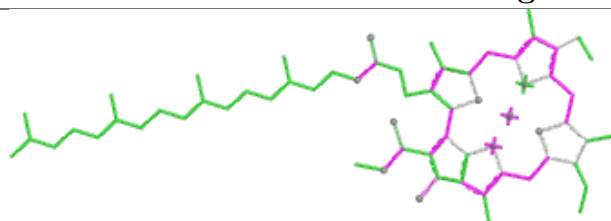


Torsions

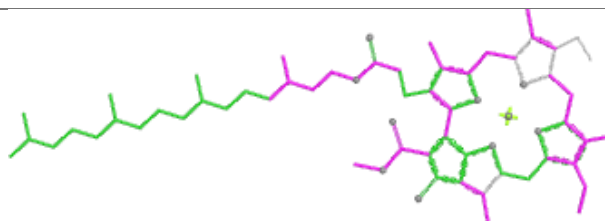


Rings

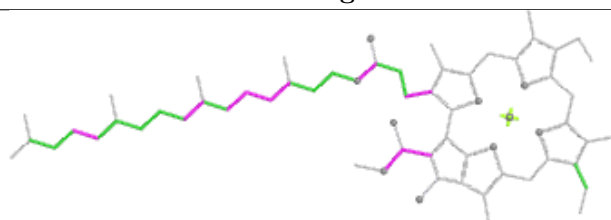
Ligand CHL 7 317



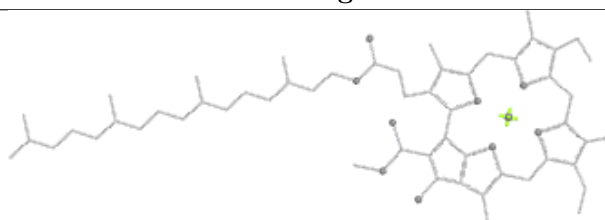
Bond lengths



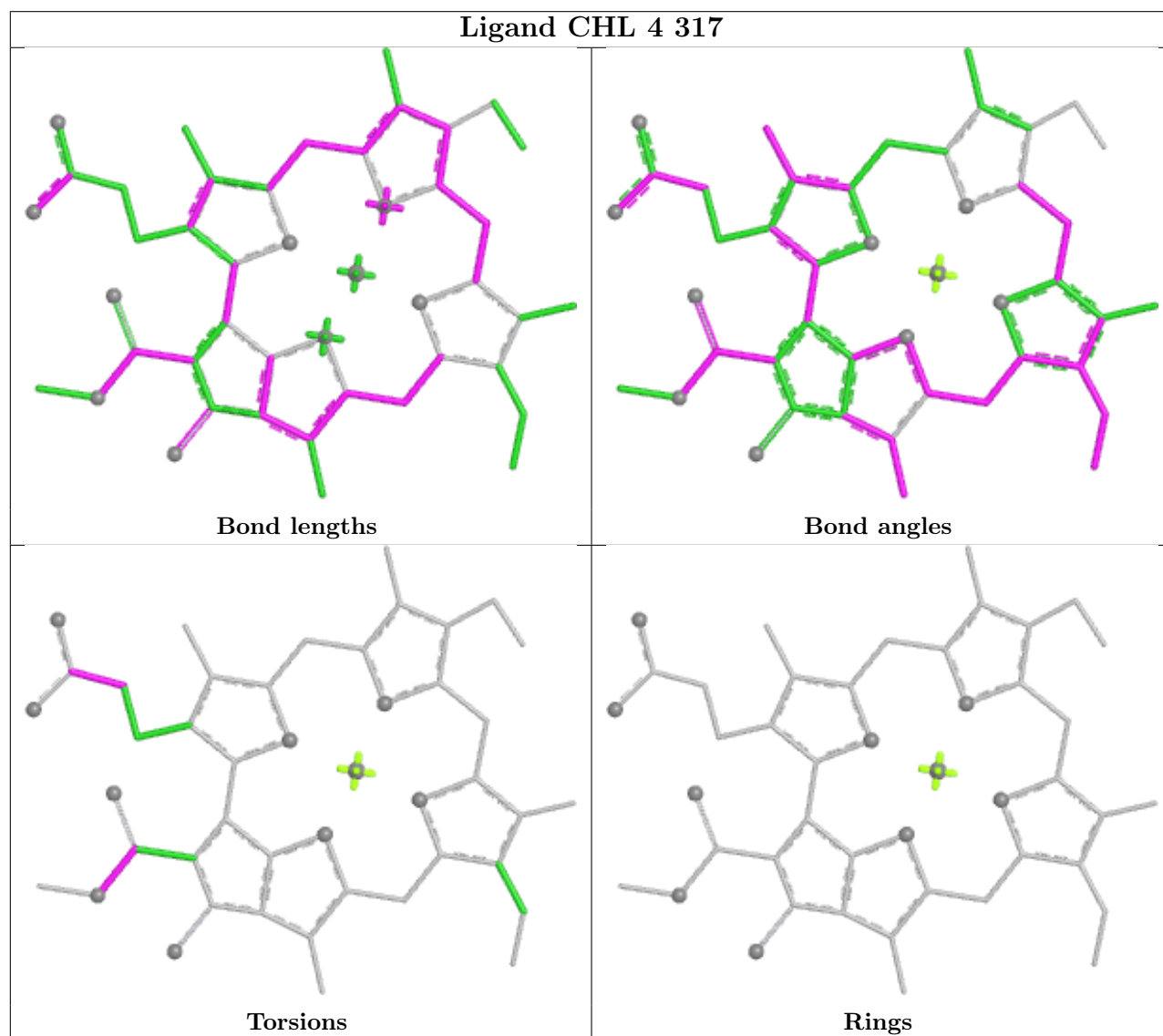
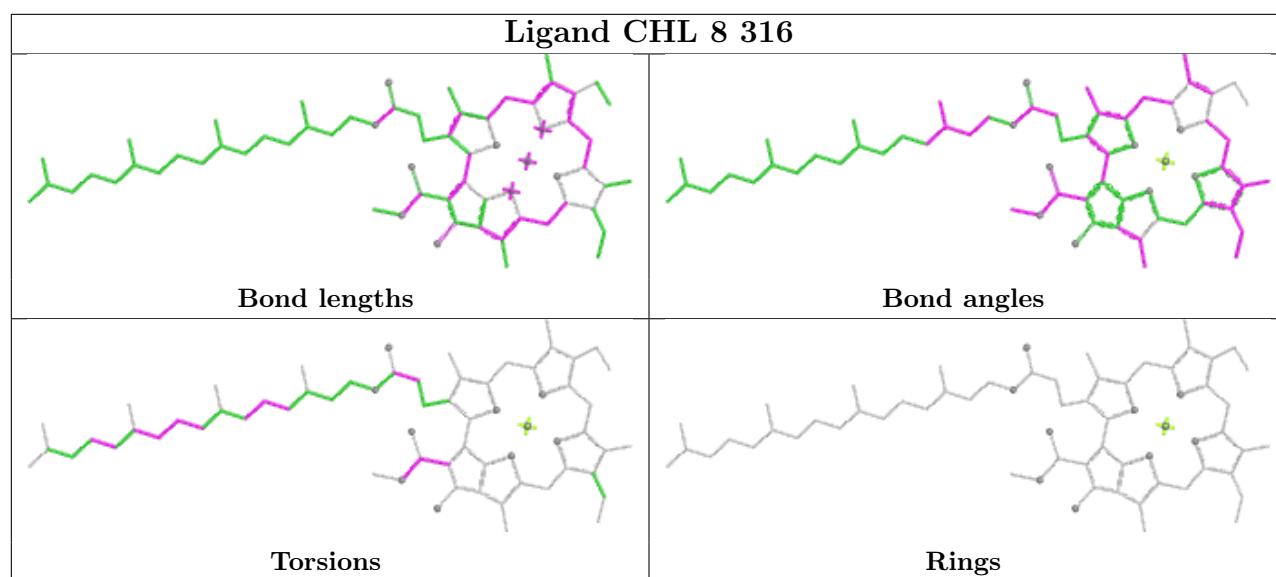
Bond angles



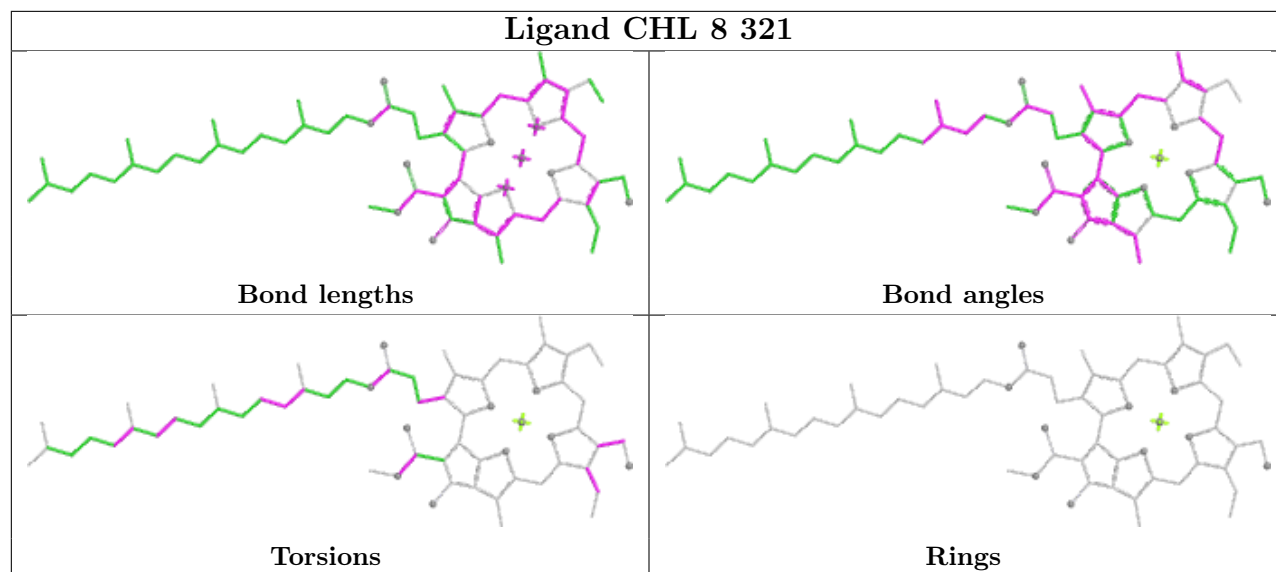
Torsions



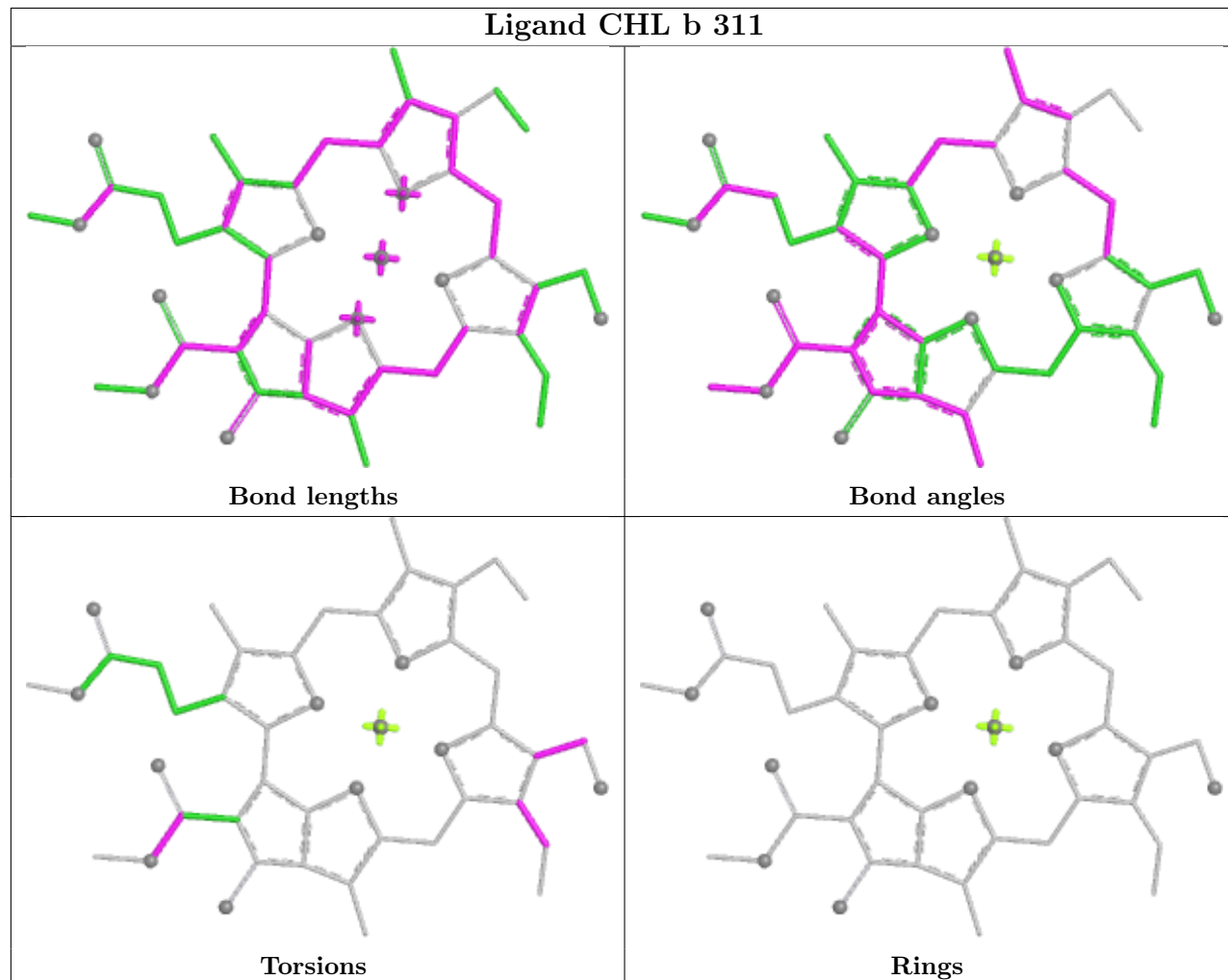
Rings



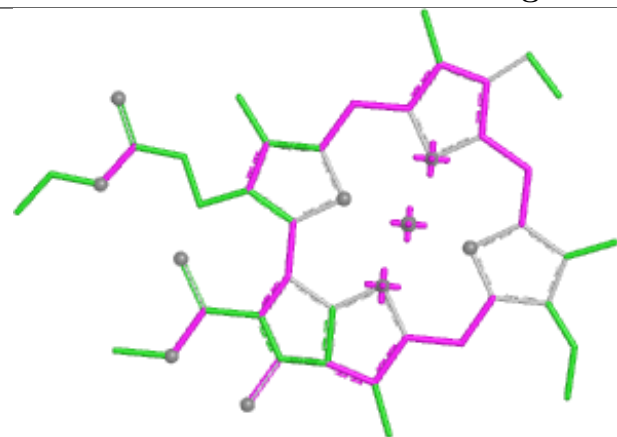
Ligand CHL 8 321



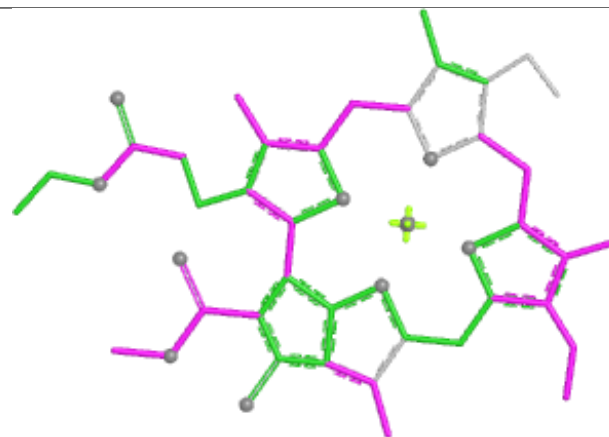
Ligand CHL b 311



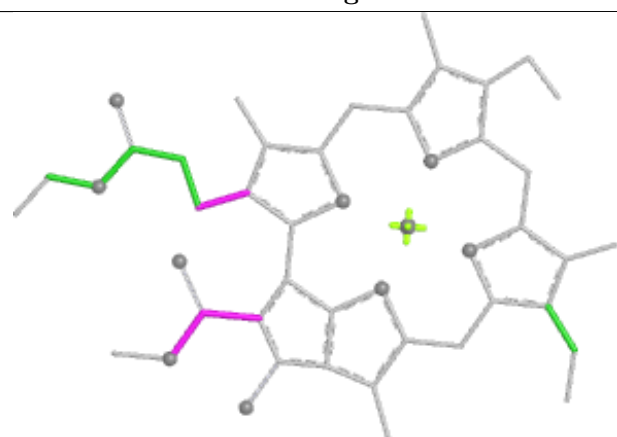
Ligand CHL 6 313



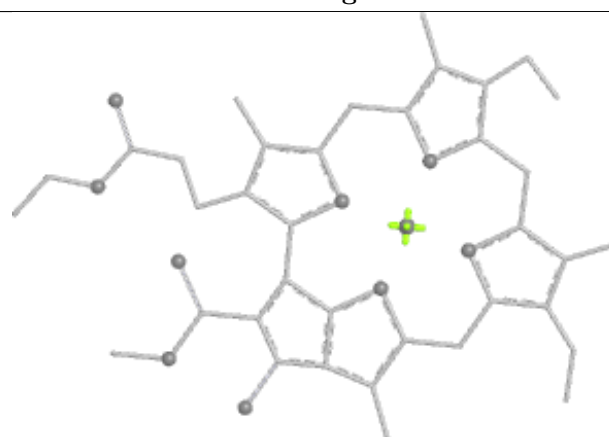
Bond lengths



Bond angles

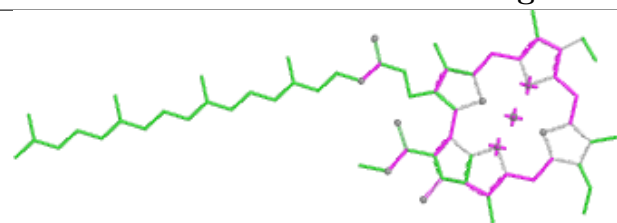


Torsions

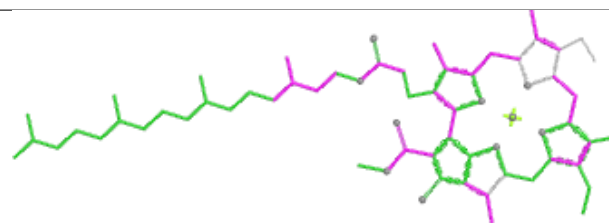


Rings

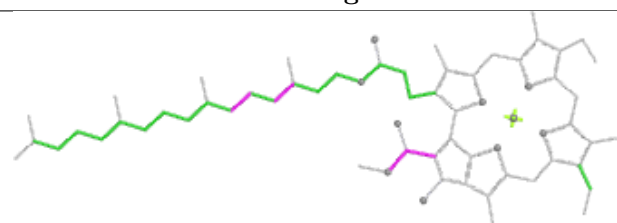
Ligand CHL A 849



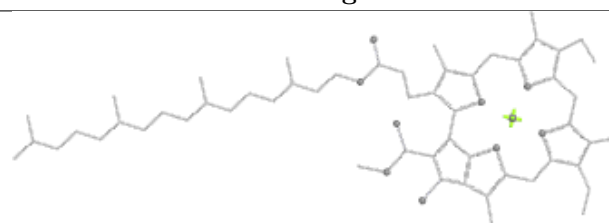
Bond lengths



Bond angles

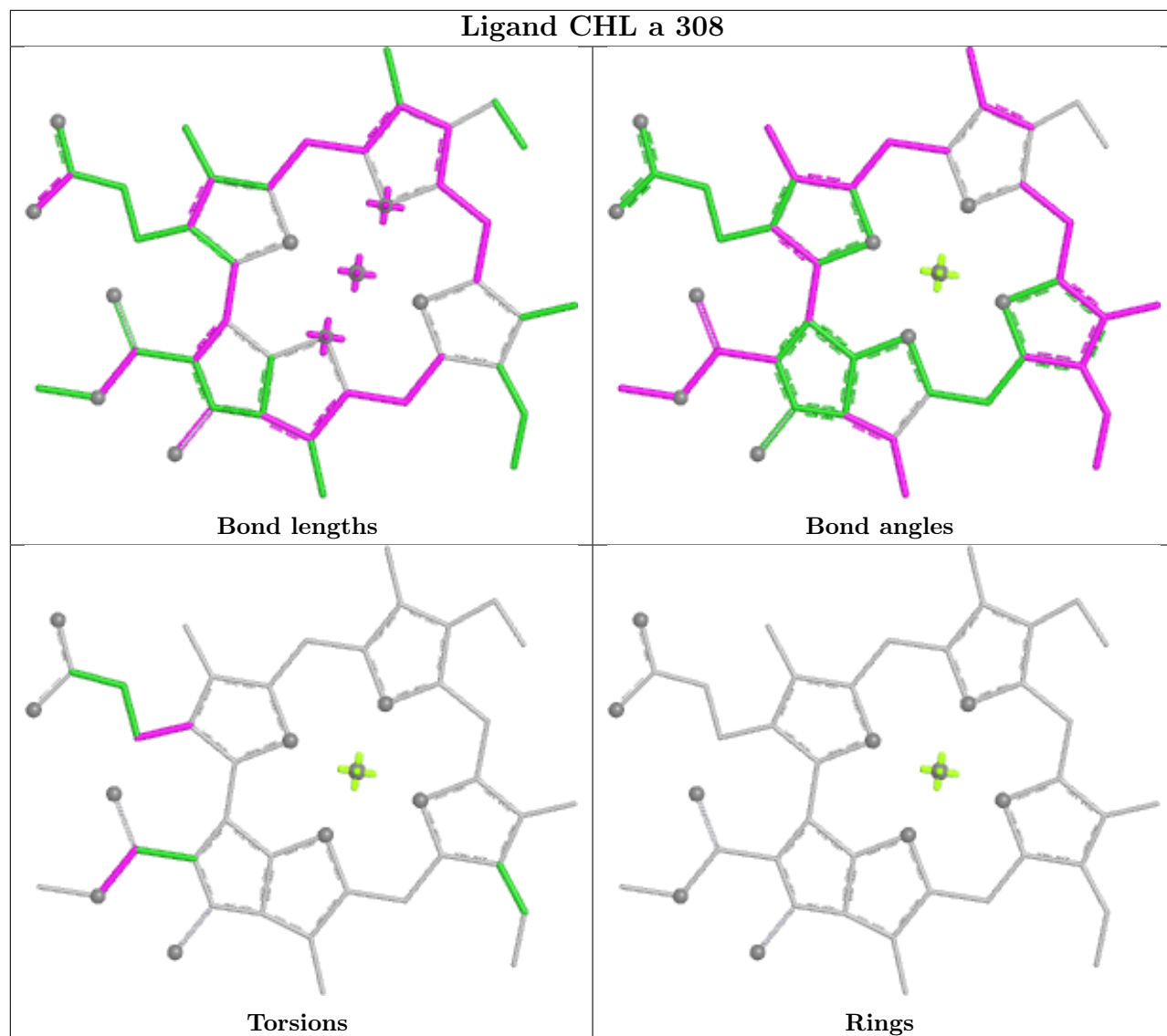


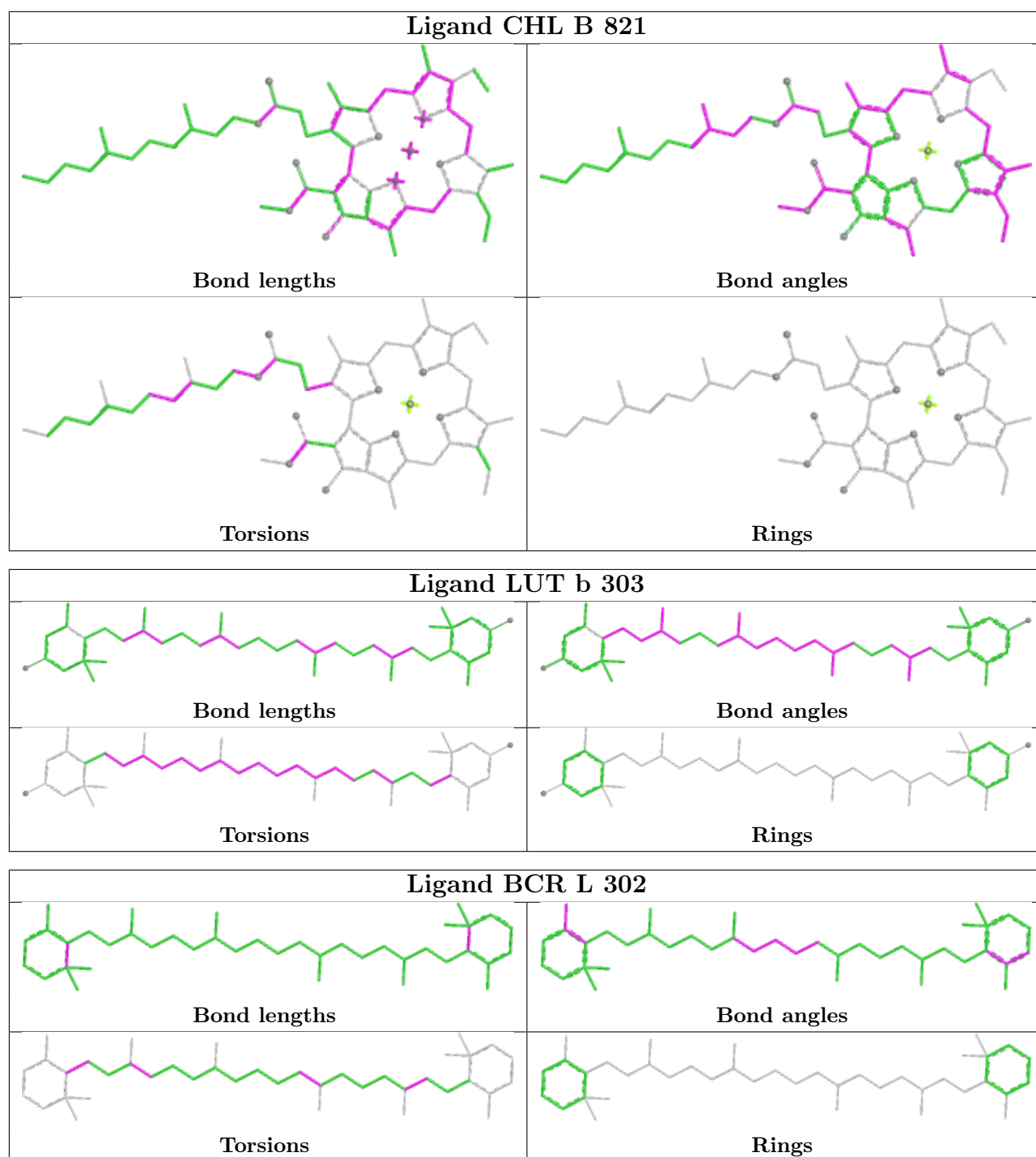
Torsions



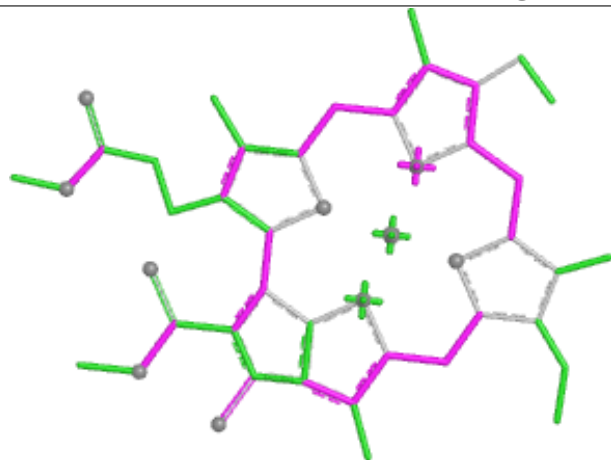
Rings

Ligand CHL a 308

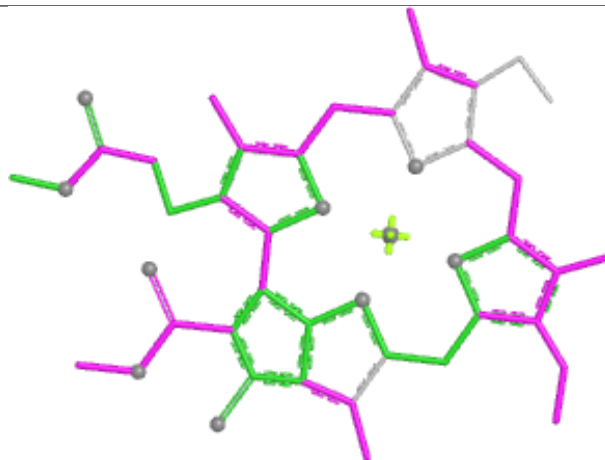




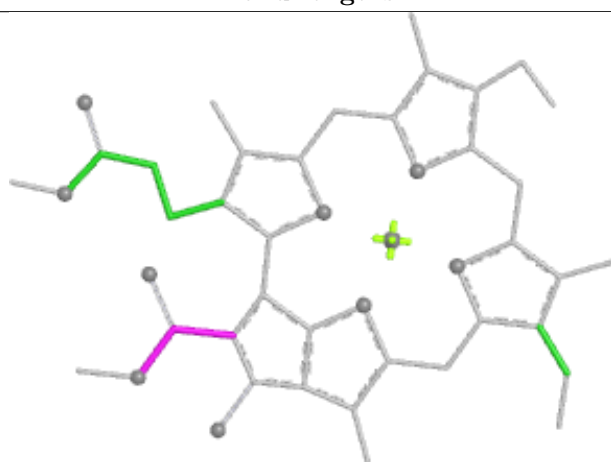
Ligand CHL A 857



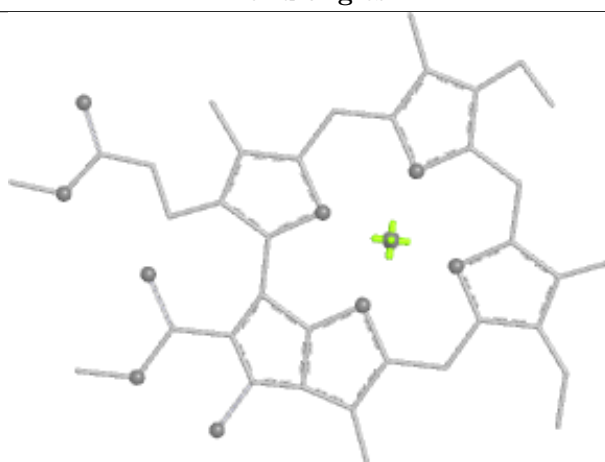
Bond lengths



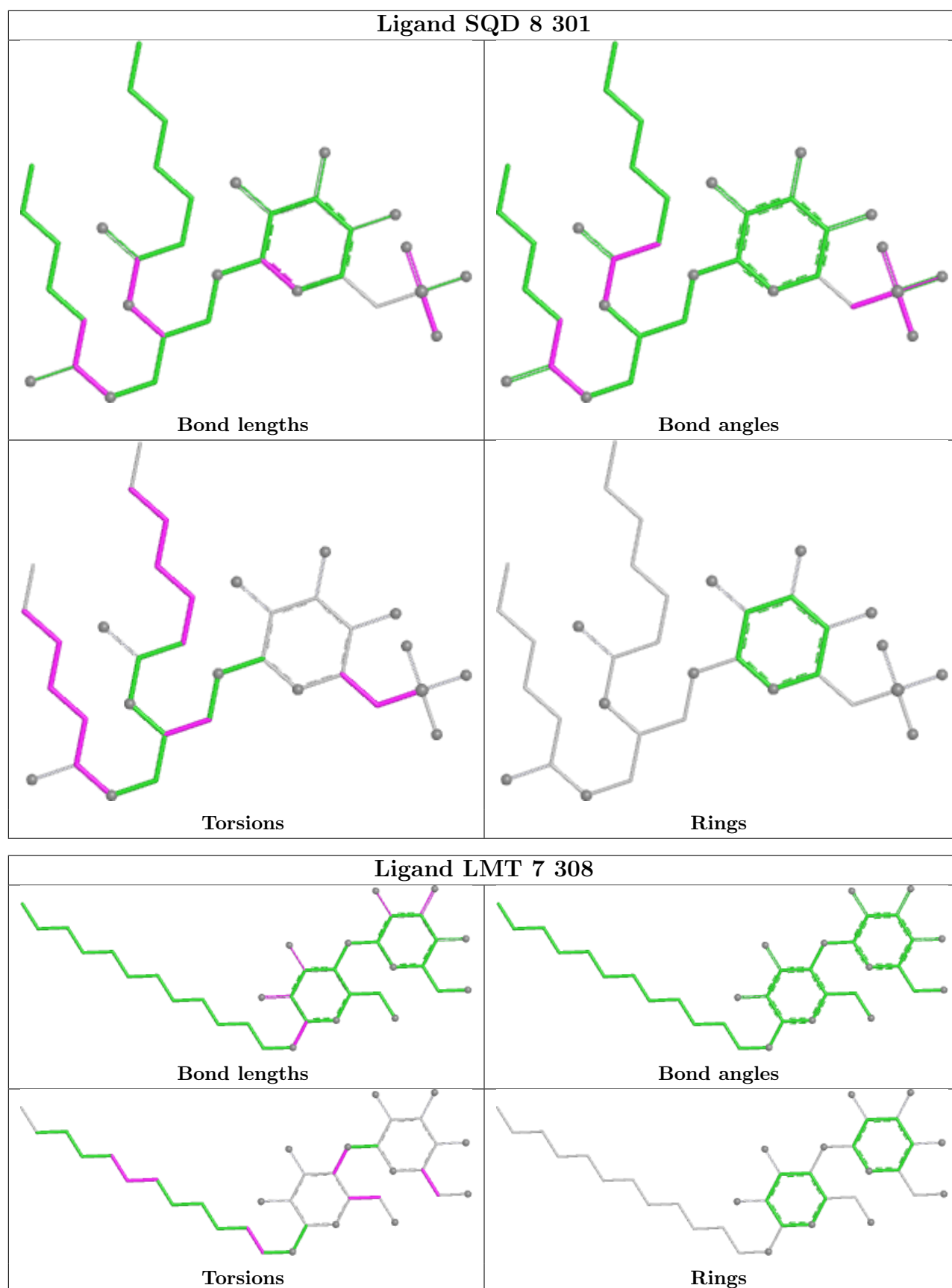
Bond angles



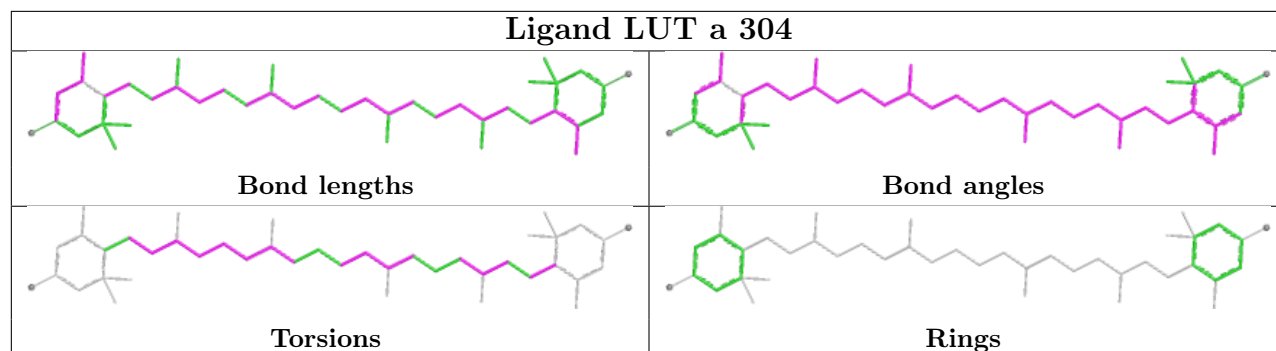
Torsions



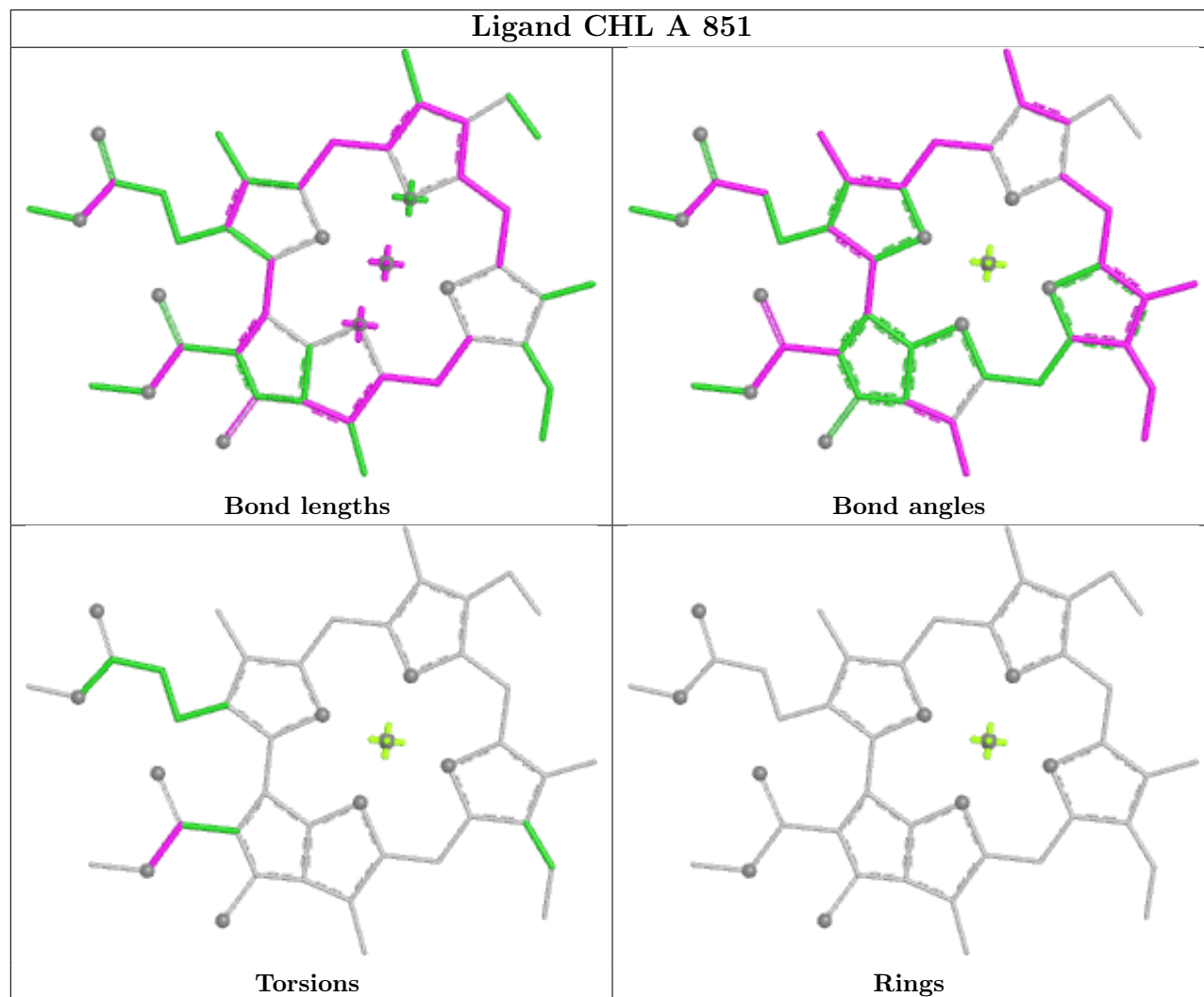
Rings



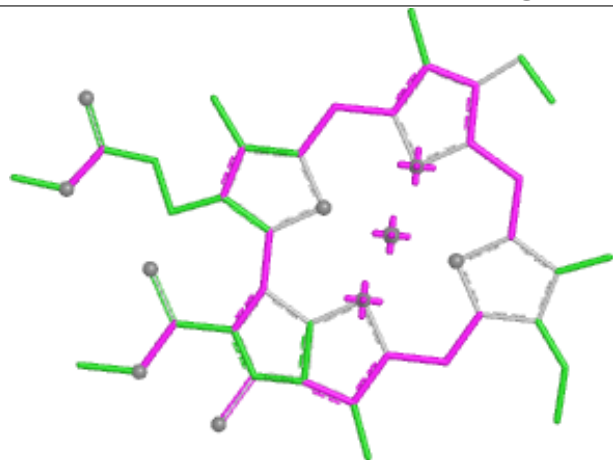
Ligand LUT a 304



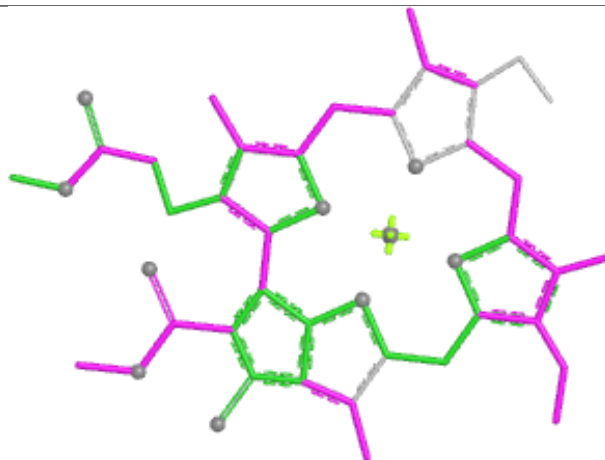
Ligand CHL A 851



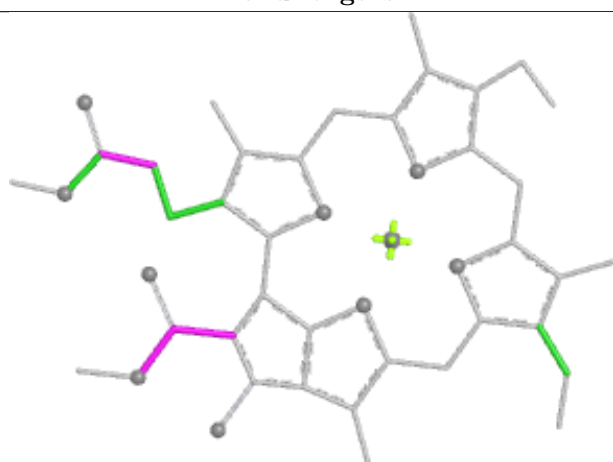
Ligand CHL a 320



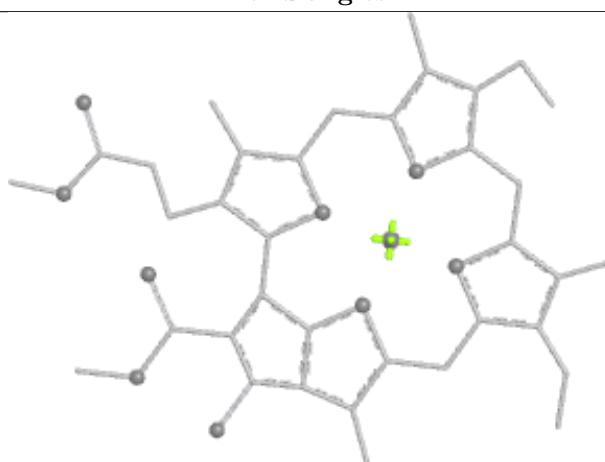
Bond lengths



Bond angles

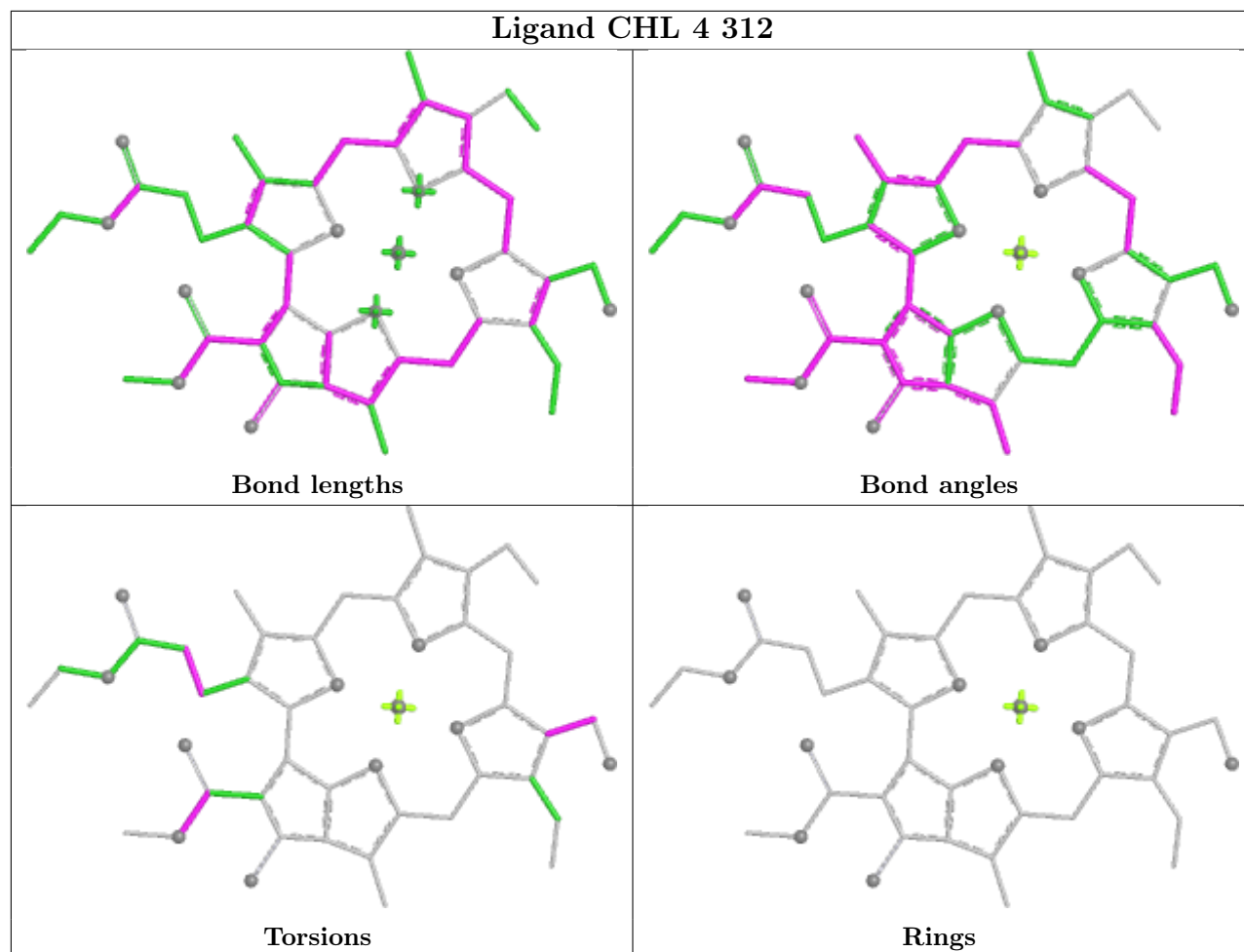


Torsions

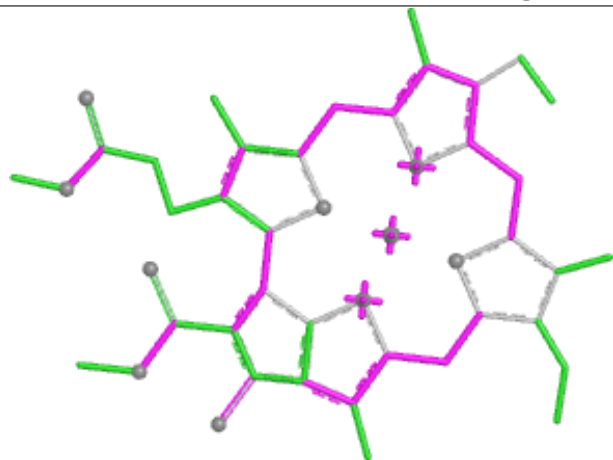


Rings

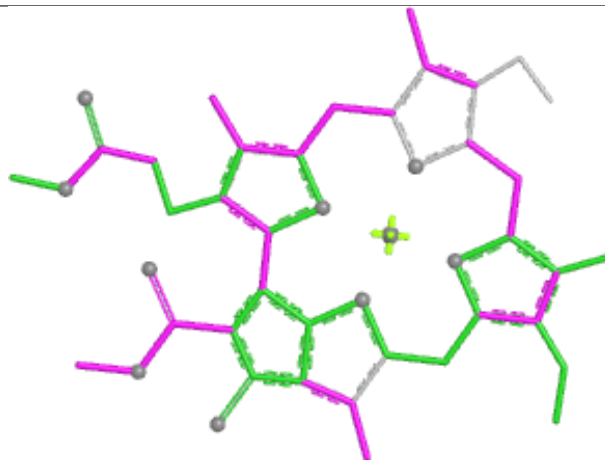
Ligand CHL 4 312



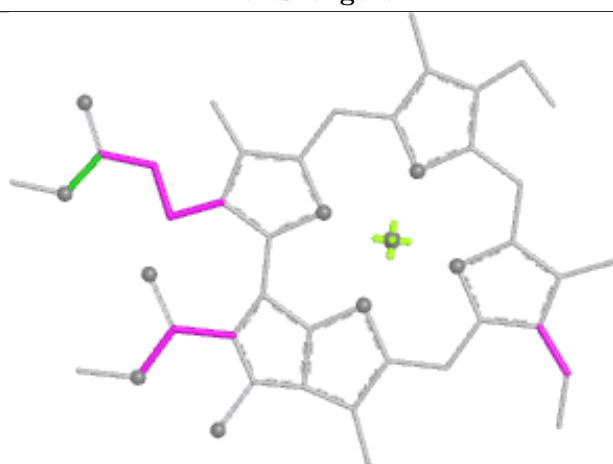
Ligand CHL 4 310



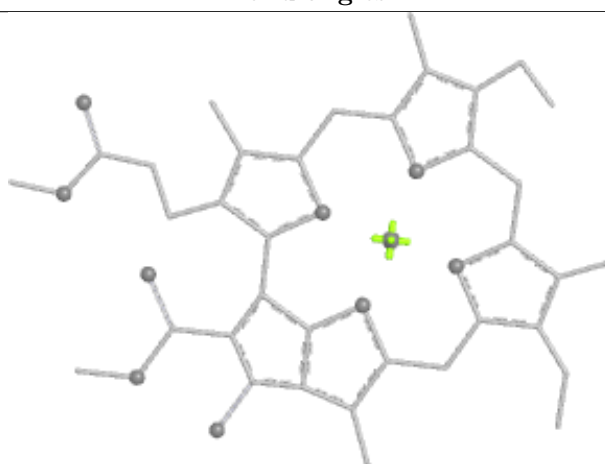
Bond lengths



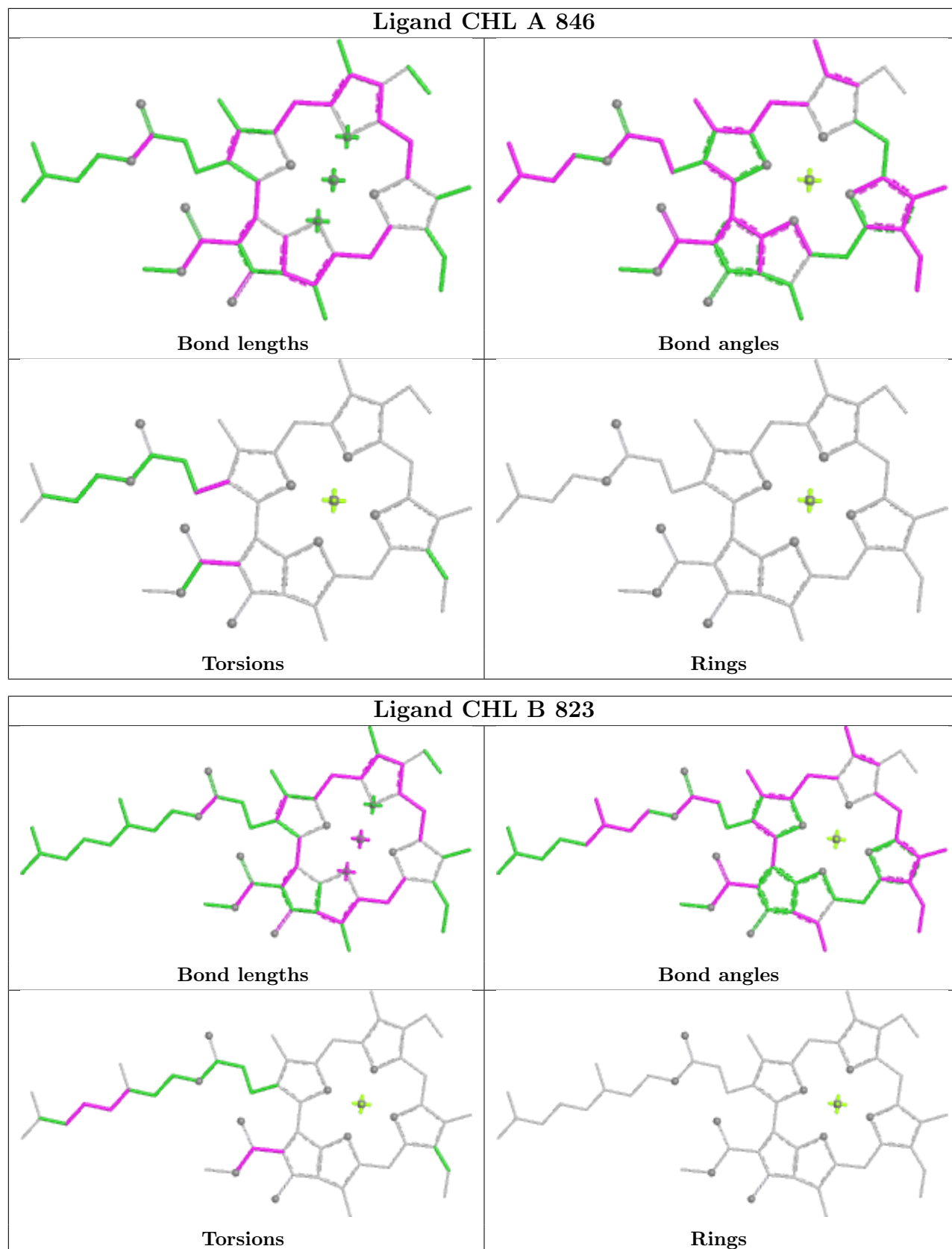
Bond angles

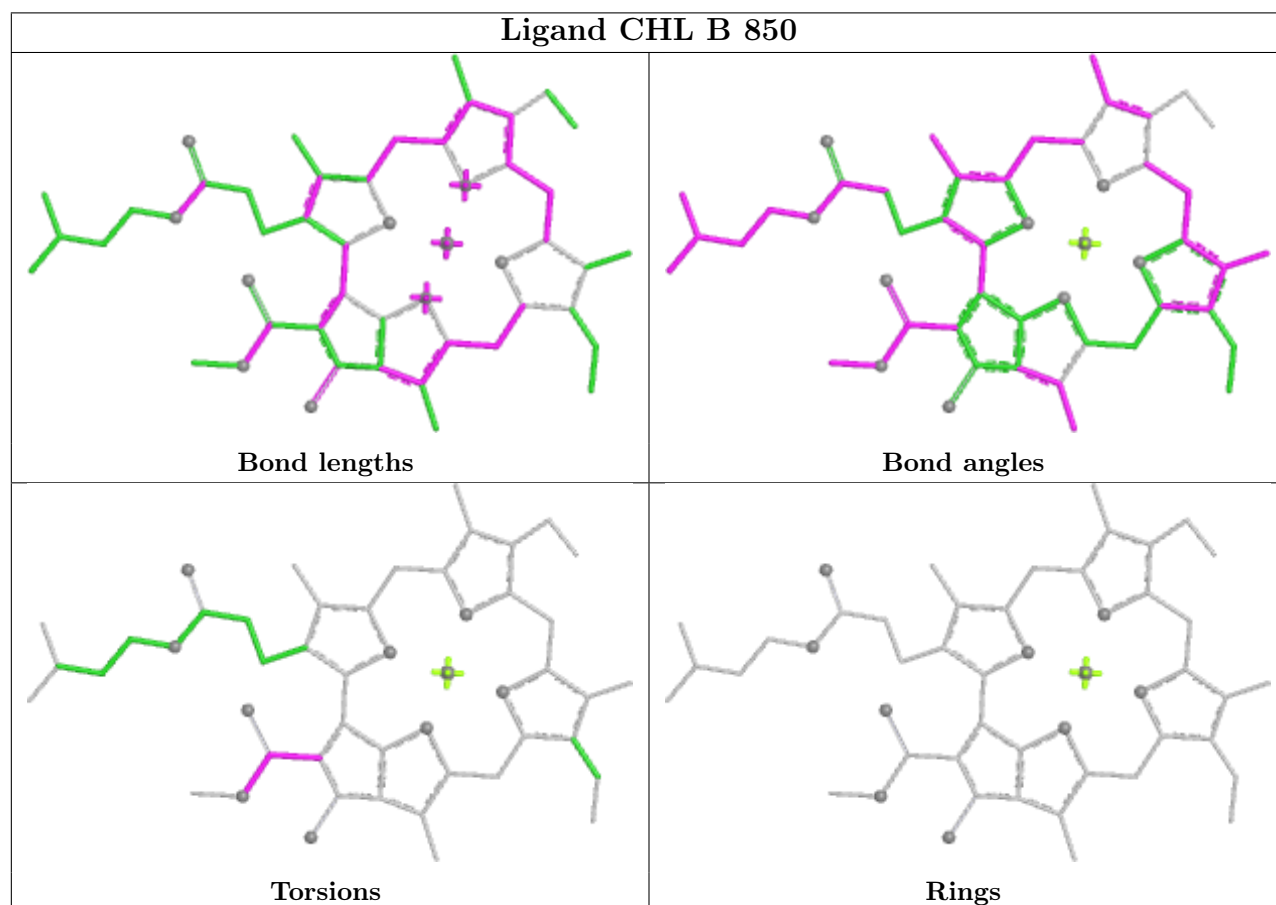
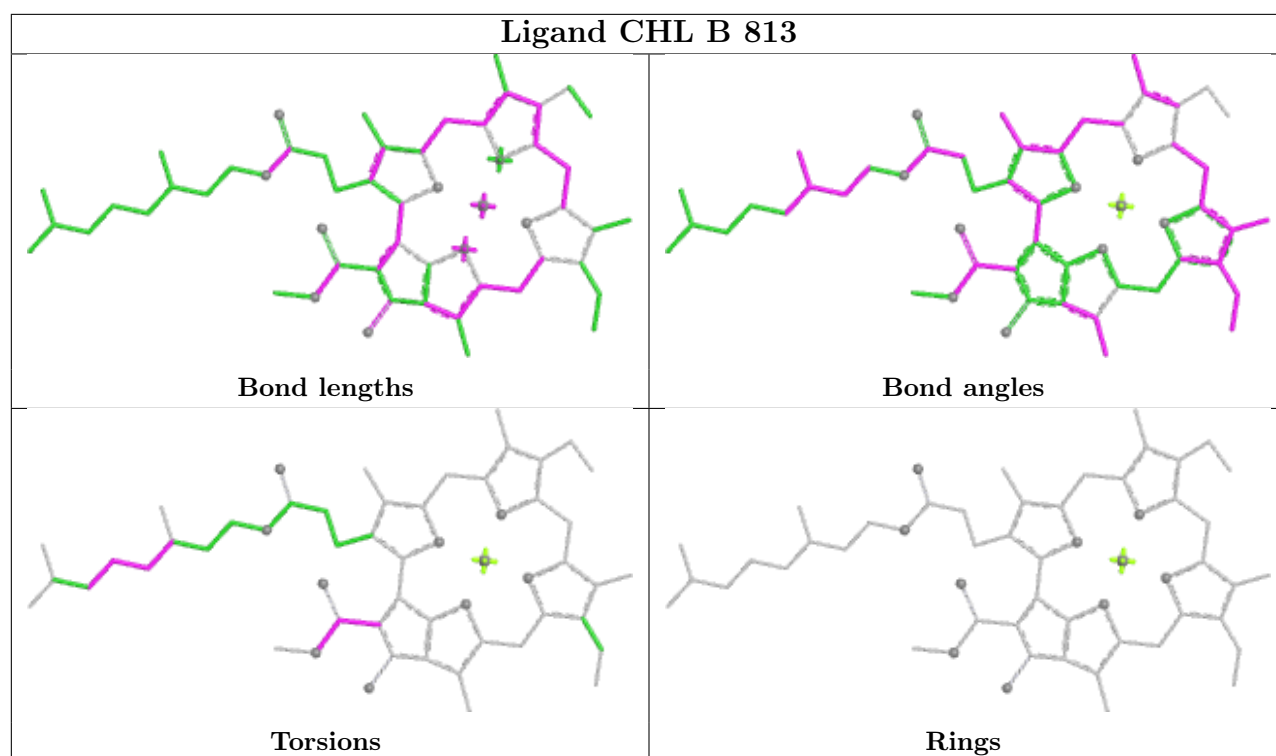


Torsions

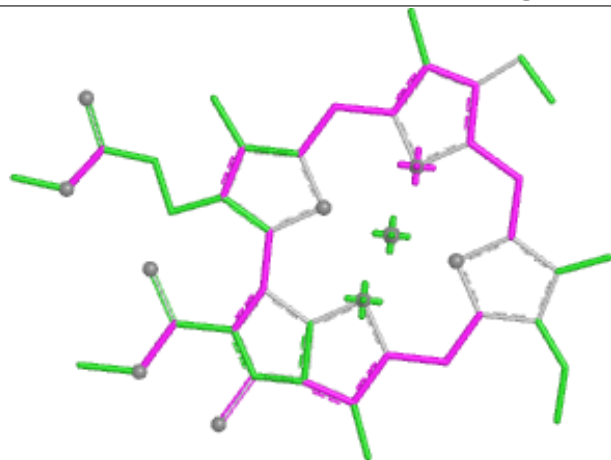


Rings

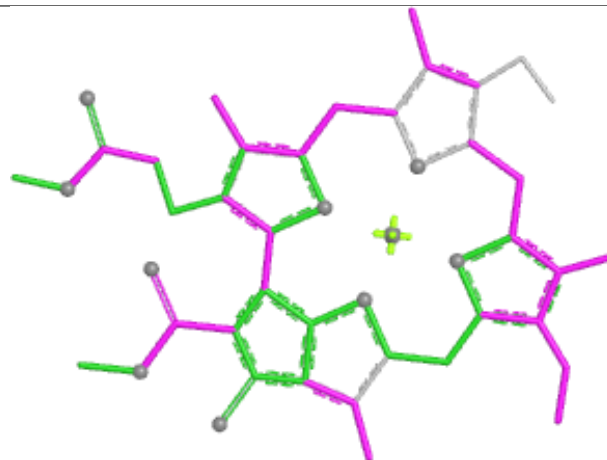




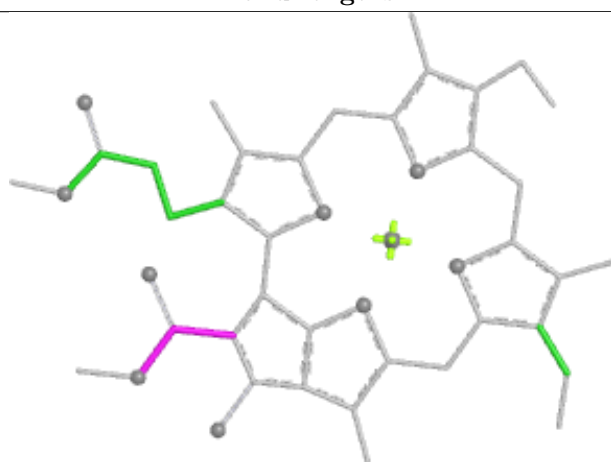
Ligand CHL 6 320



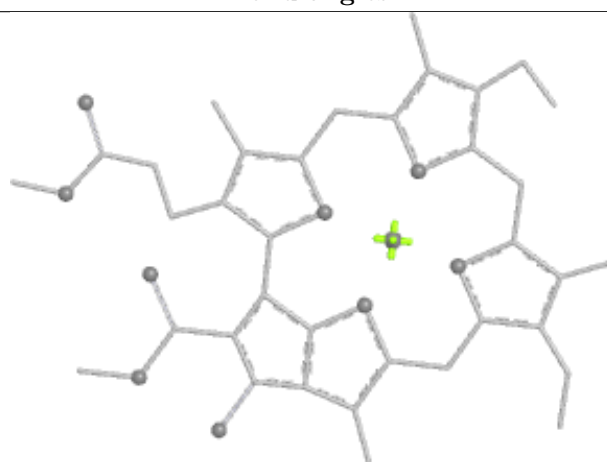
Bond lengths



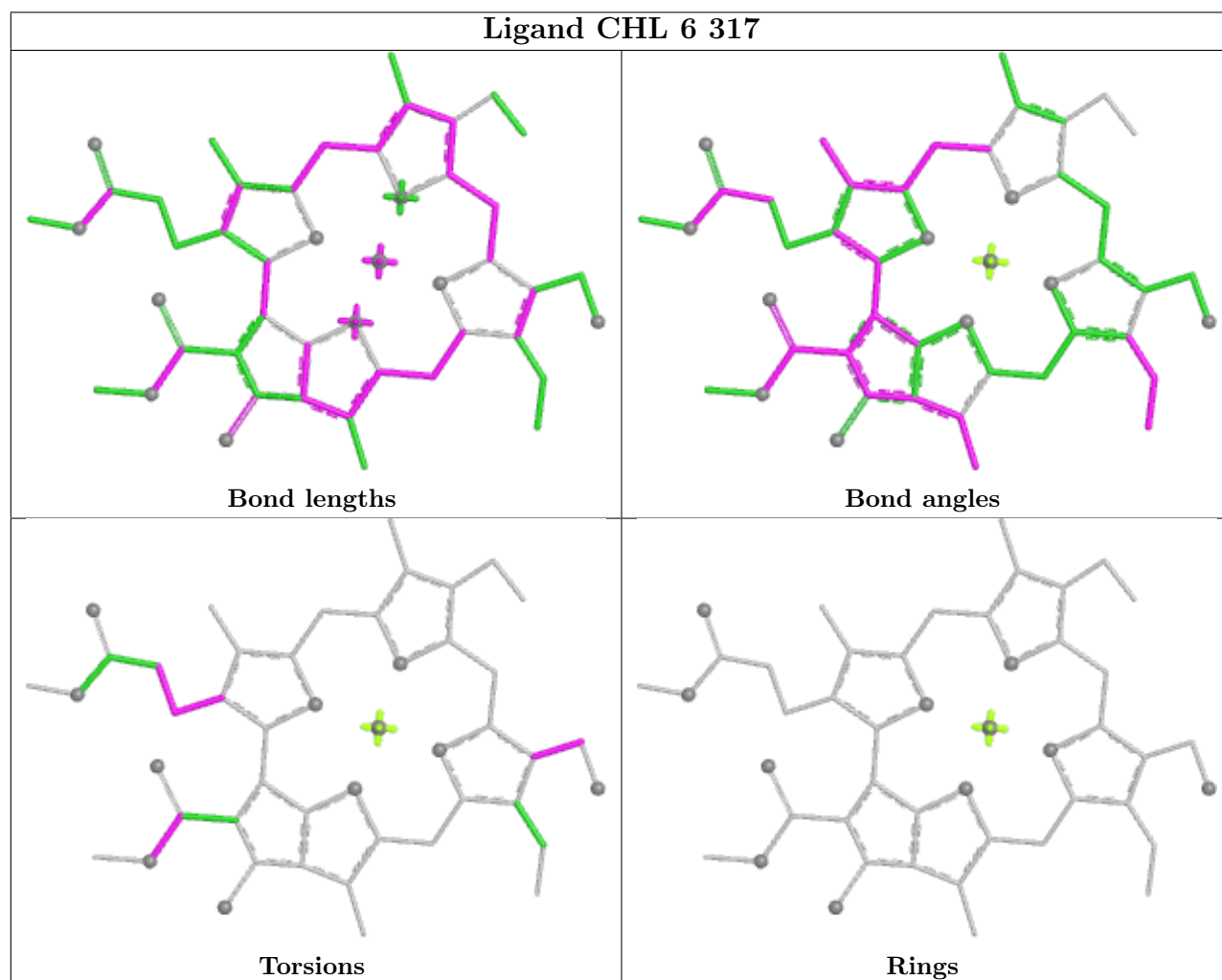
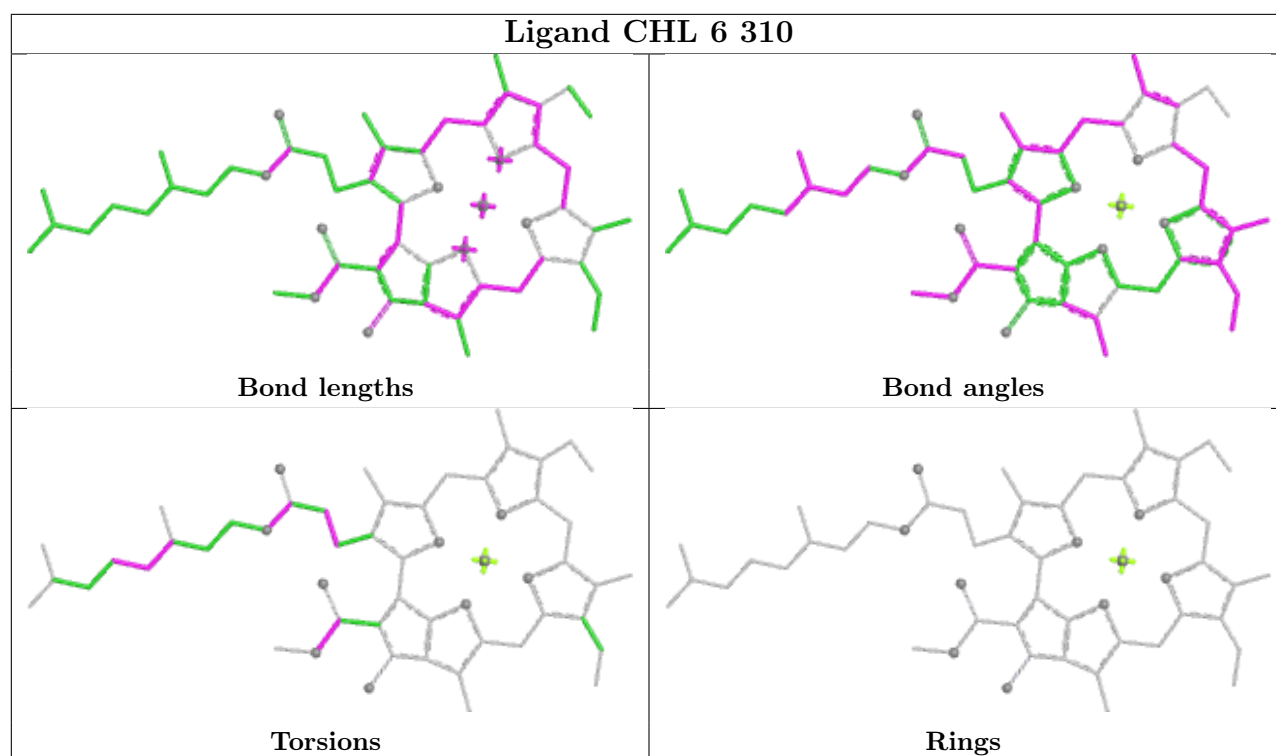
Bond angles

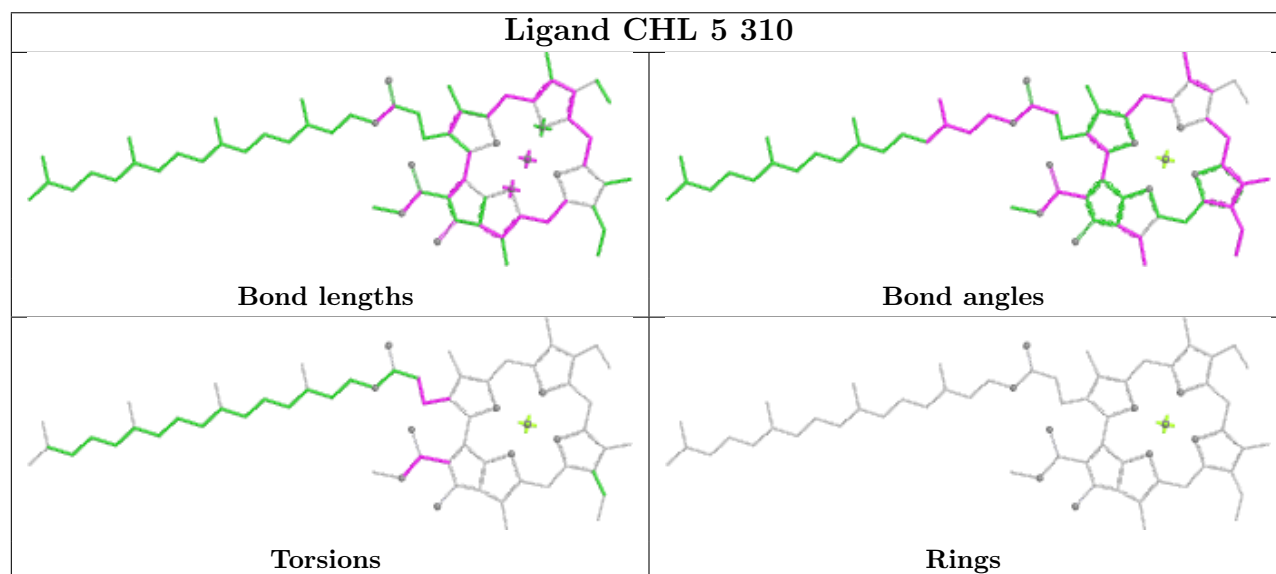
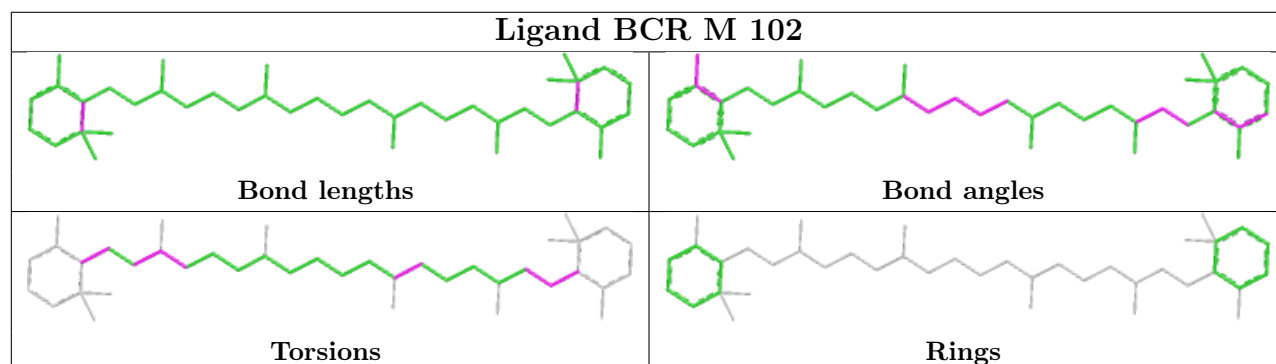
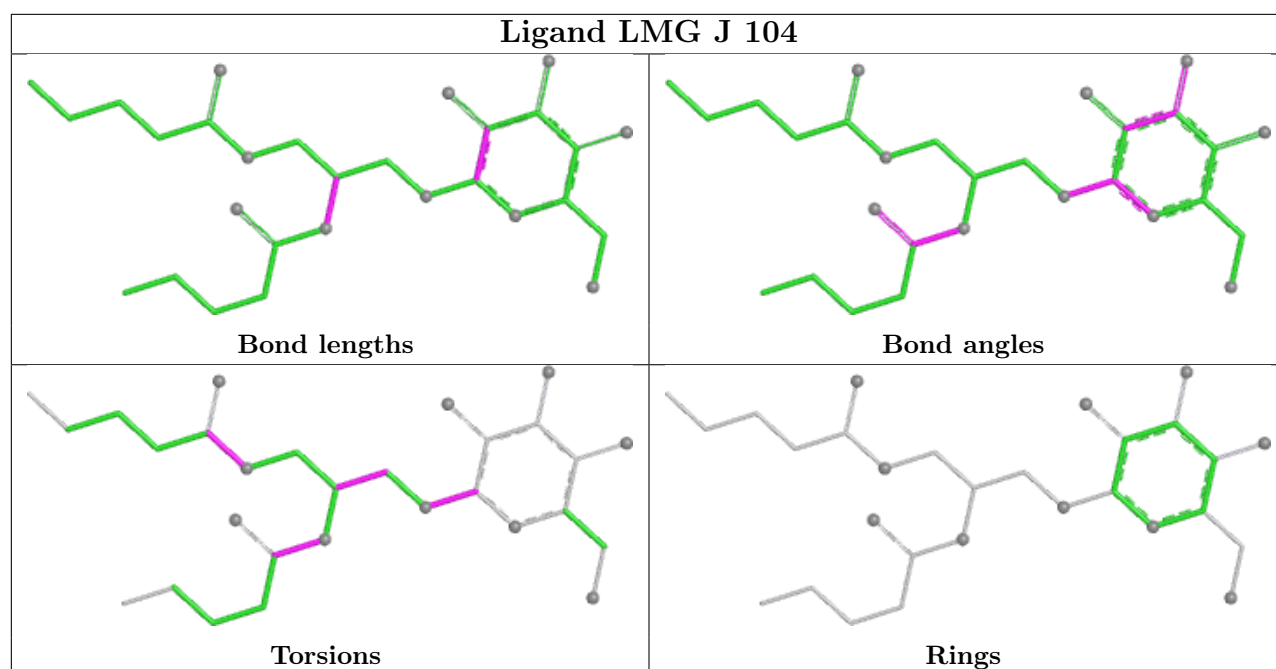


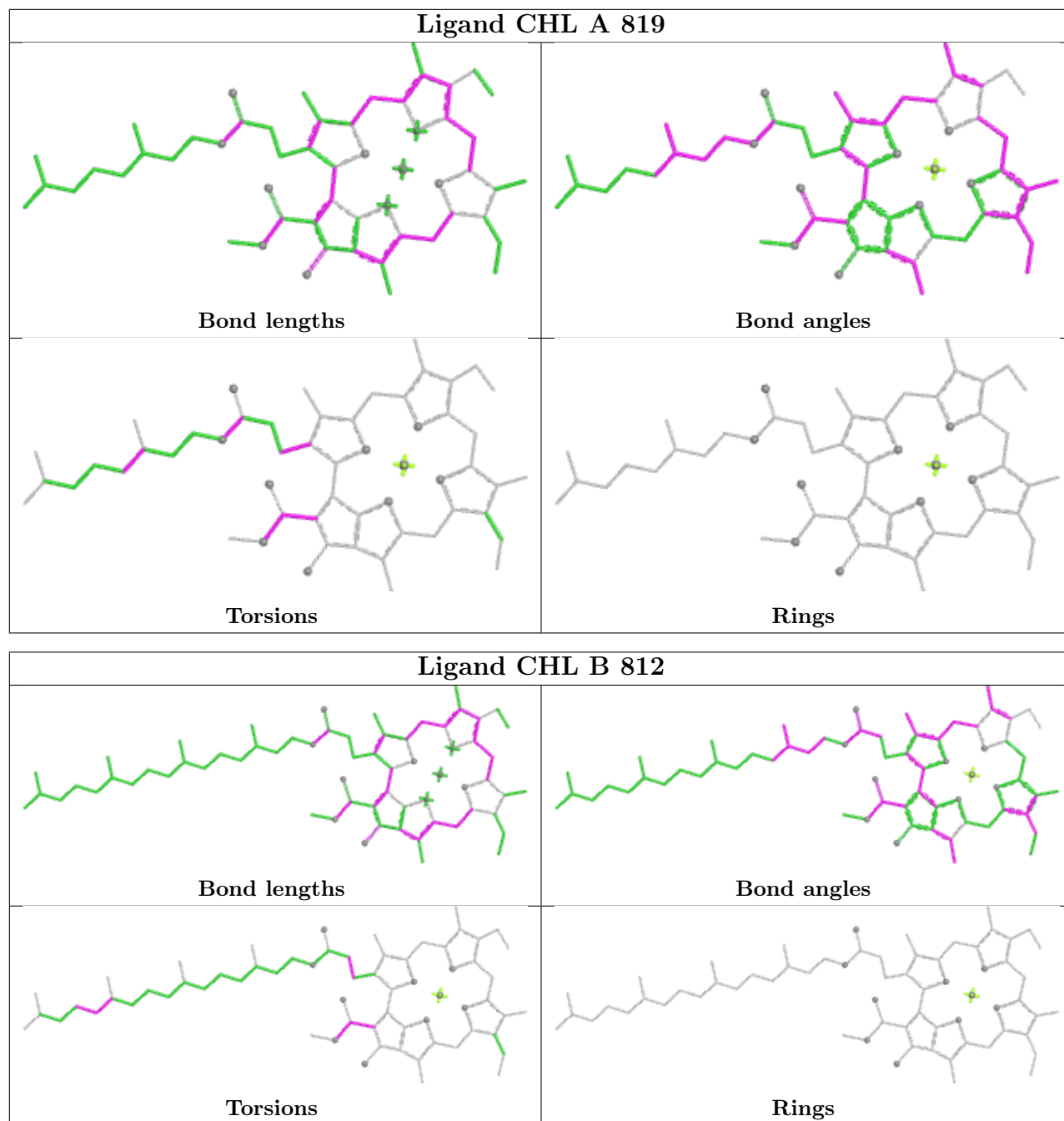
Torsions

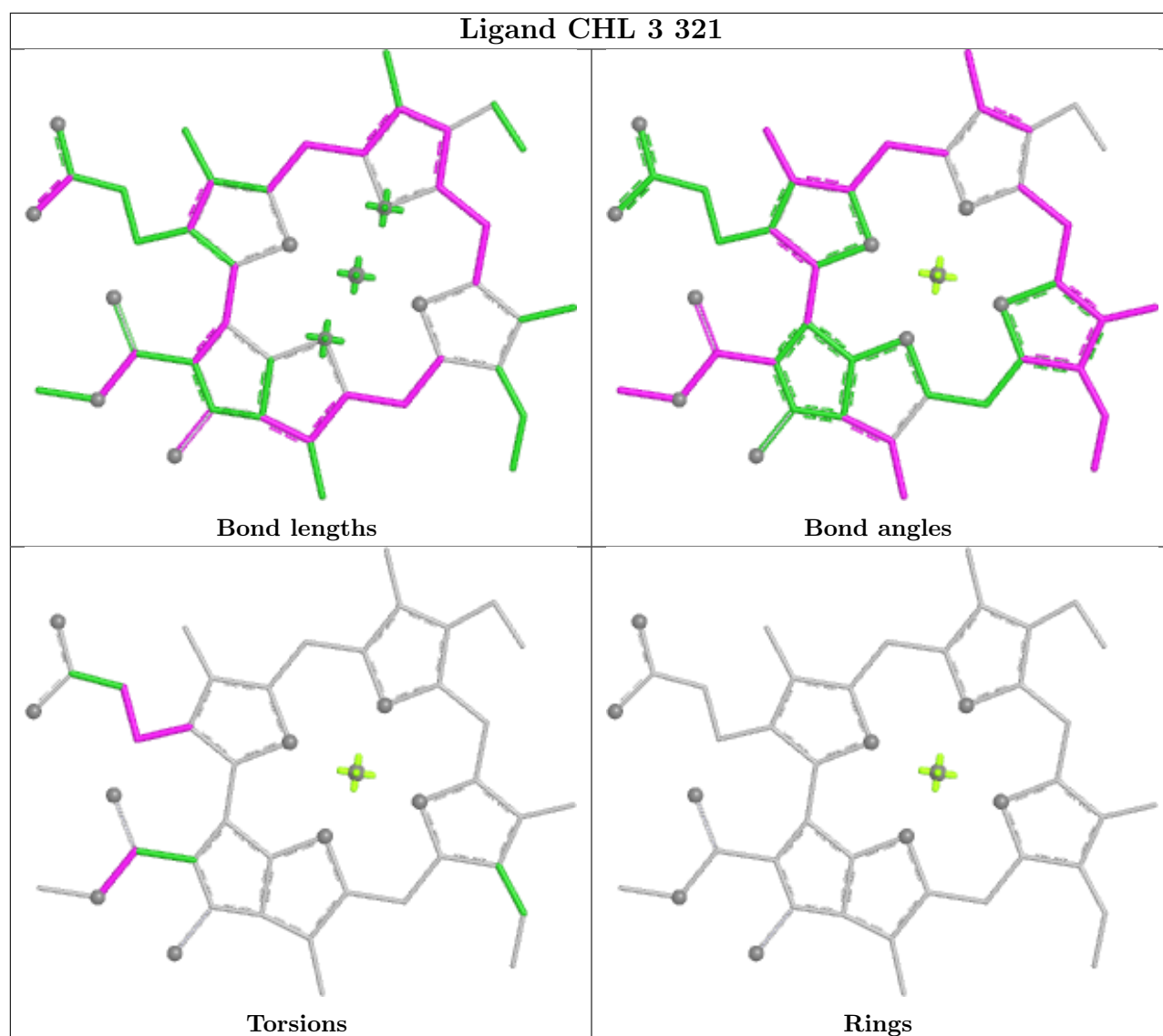
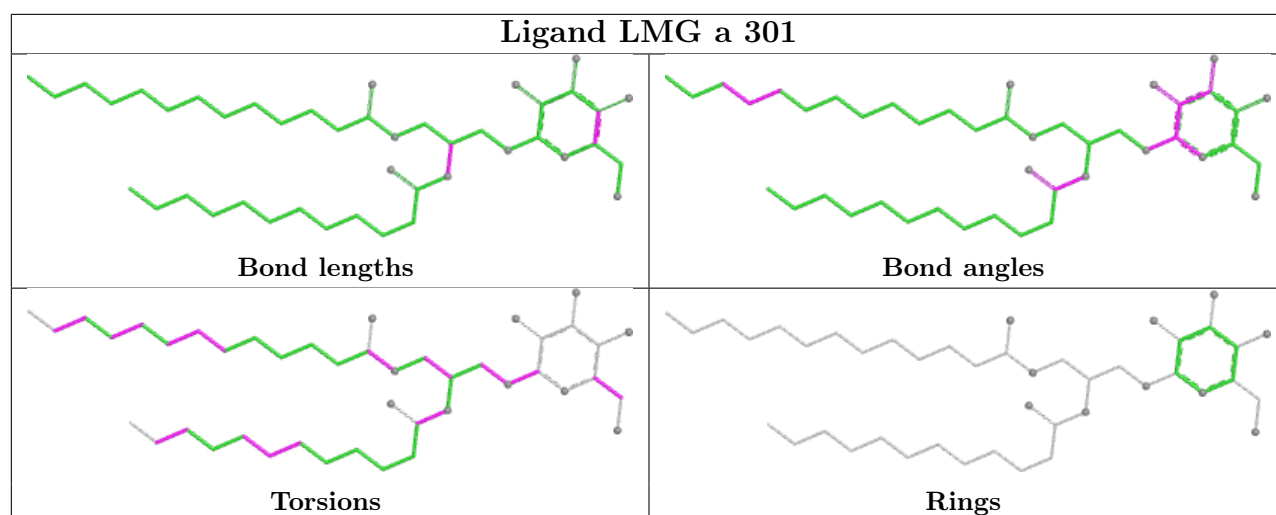


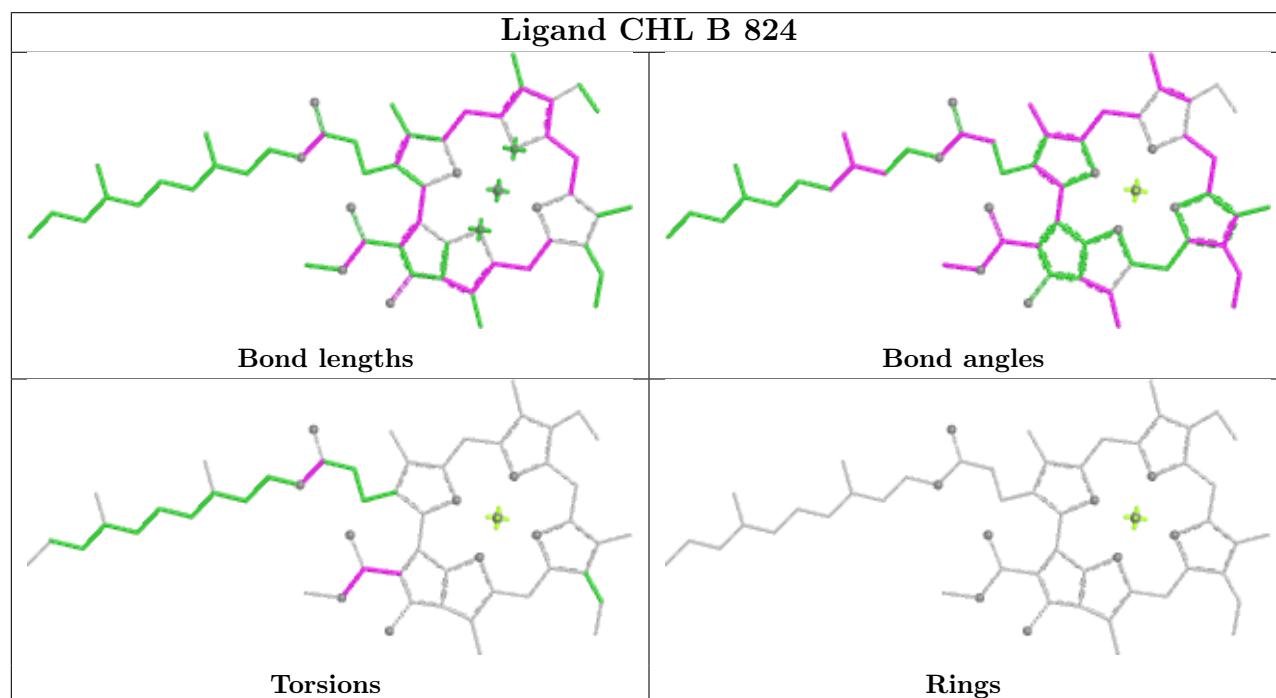
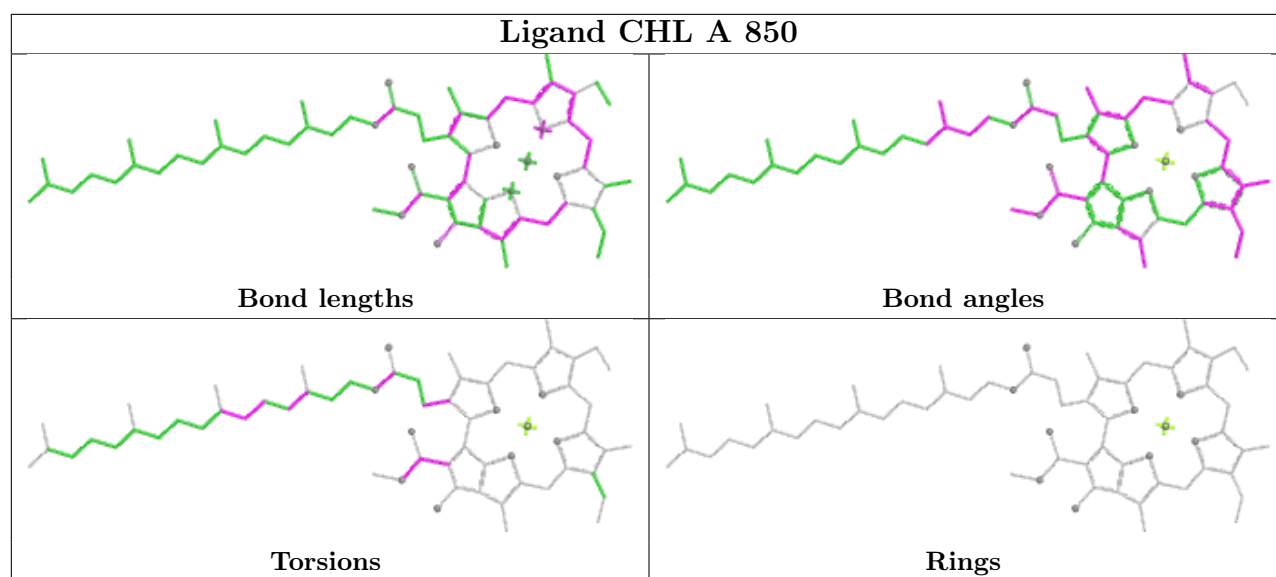
Rings



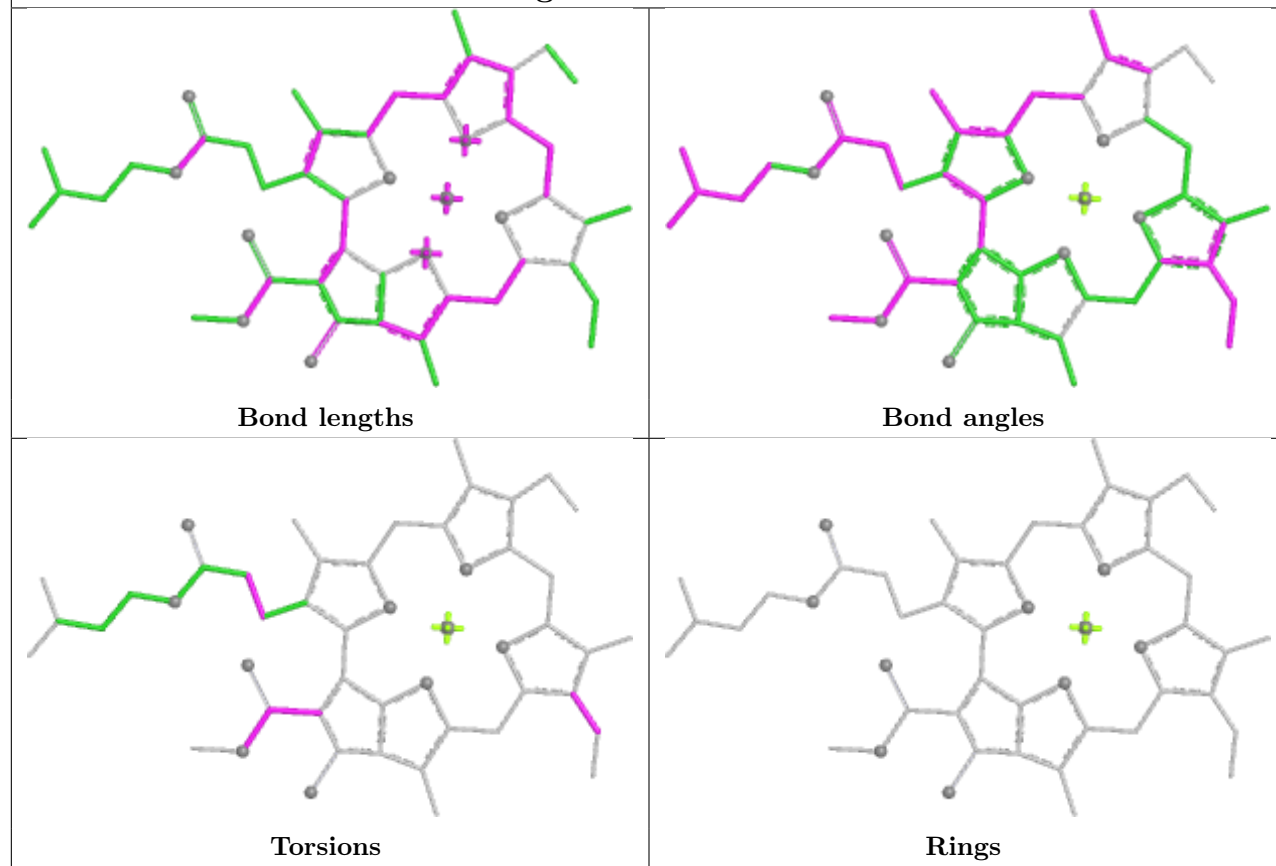




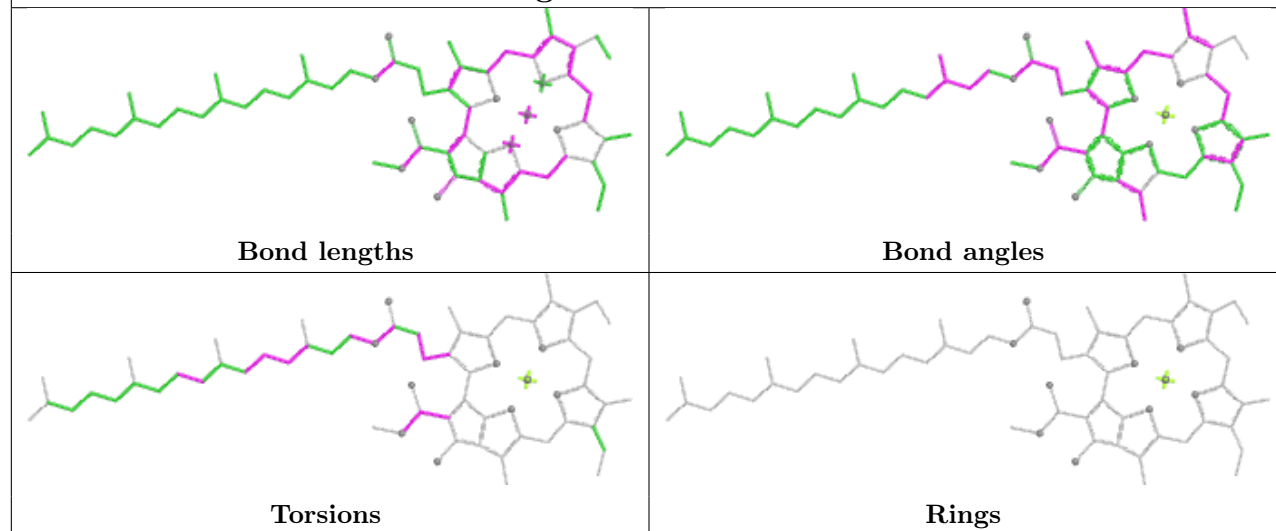


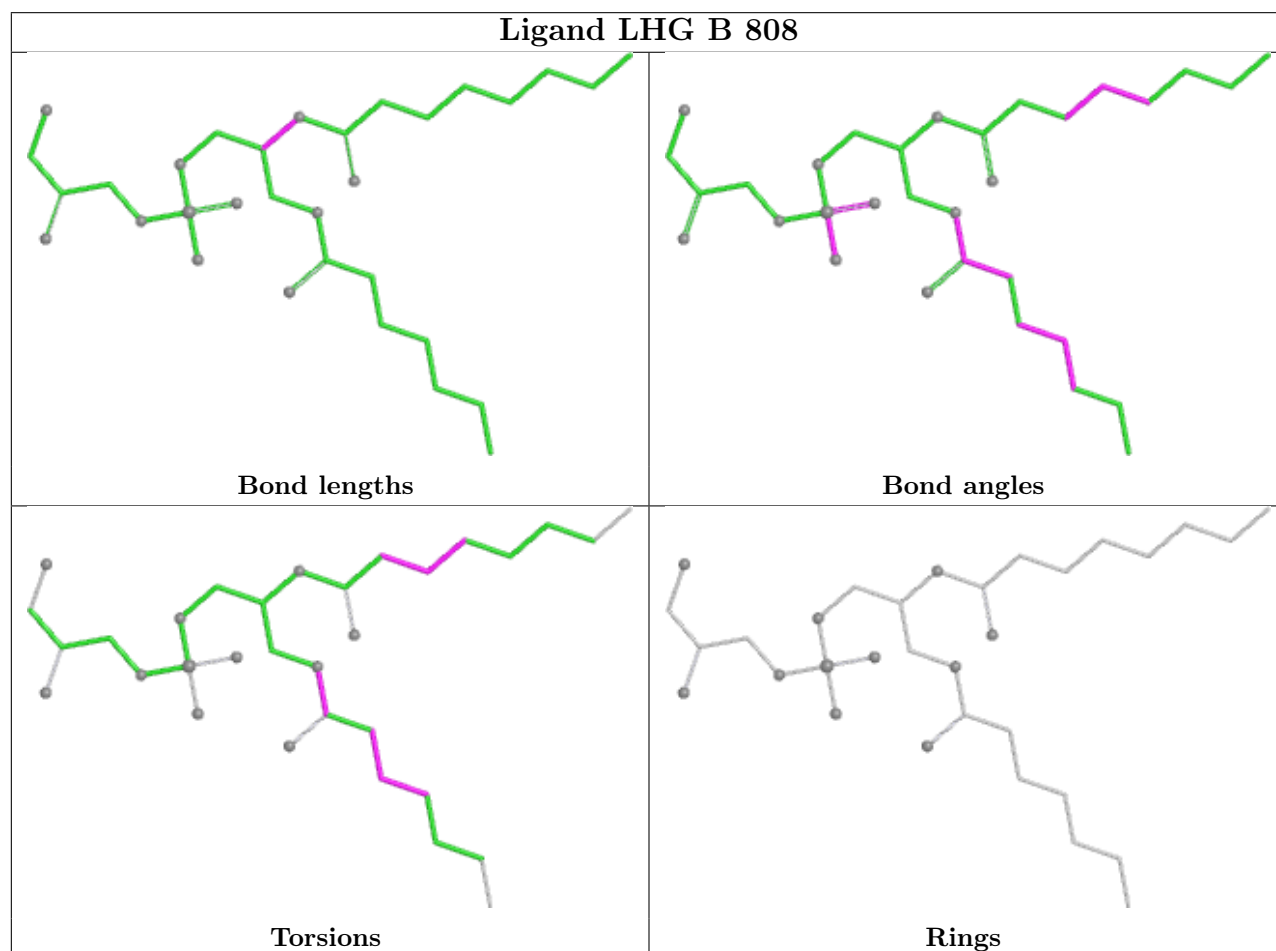
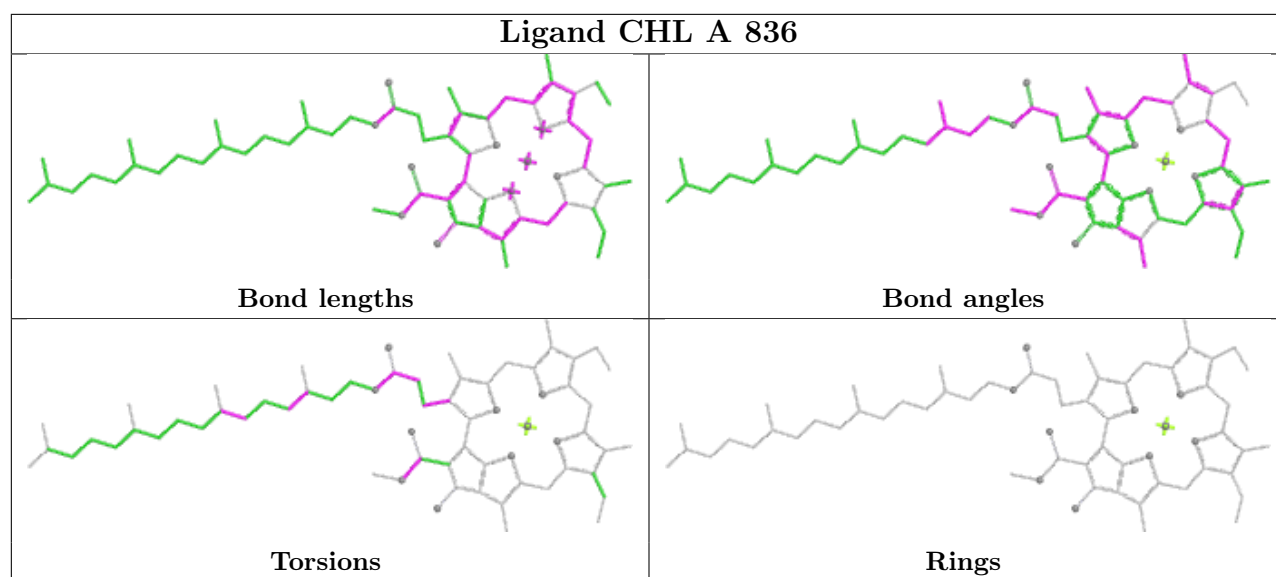


Ligand CHL a 319

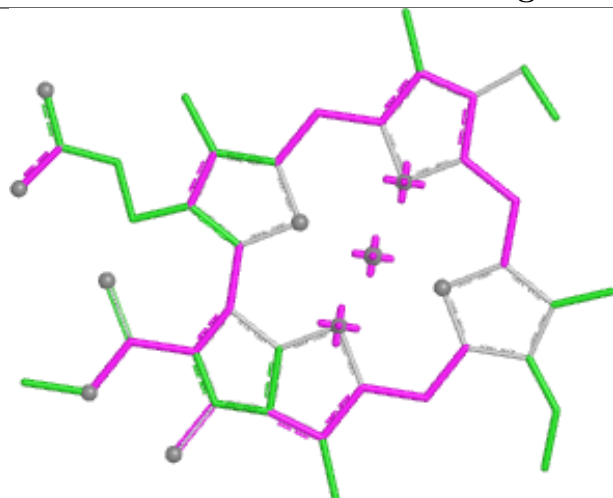


Ligand CHL 3 310

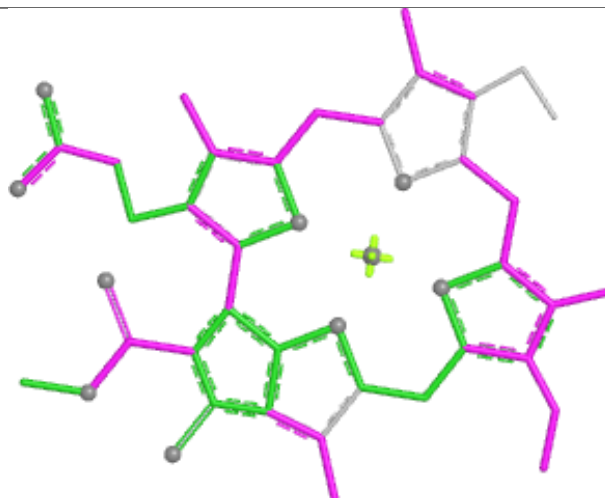




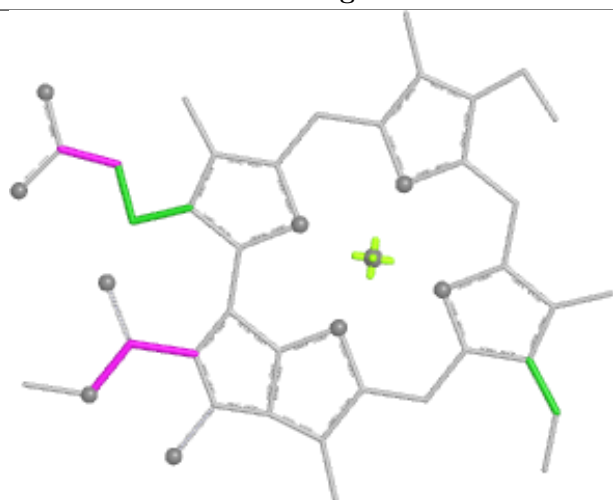
Ligand CHL 4 314



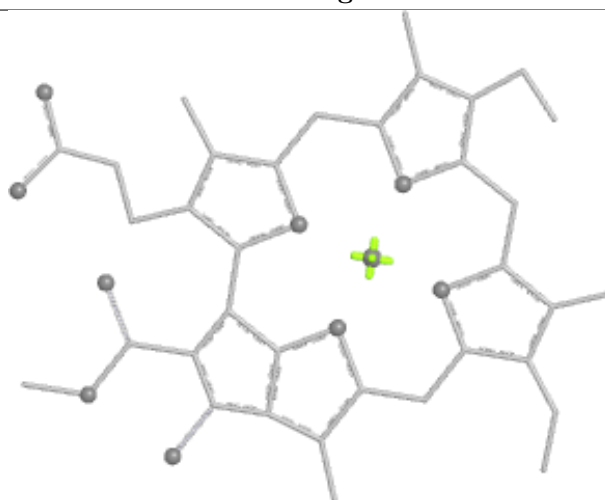
Bond lengths



Bond angles

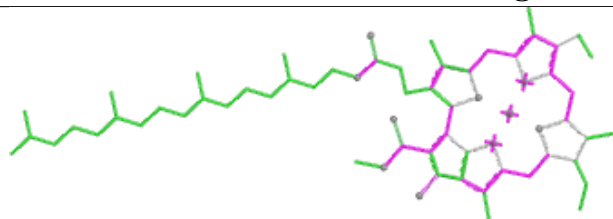


Torsions

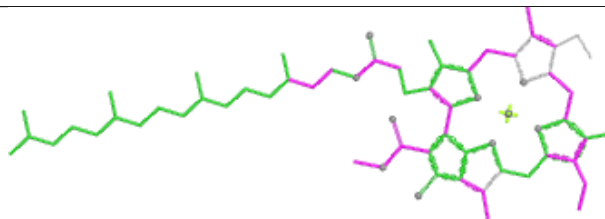


Rings

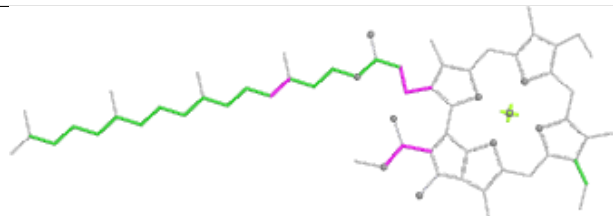
Ligand CHL A 834



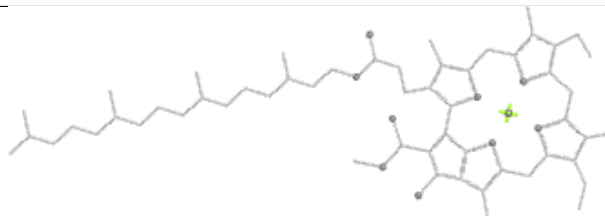
Bond lengths



Bond angles

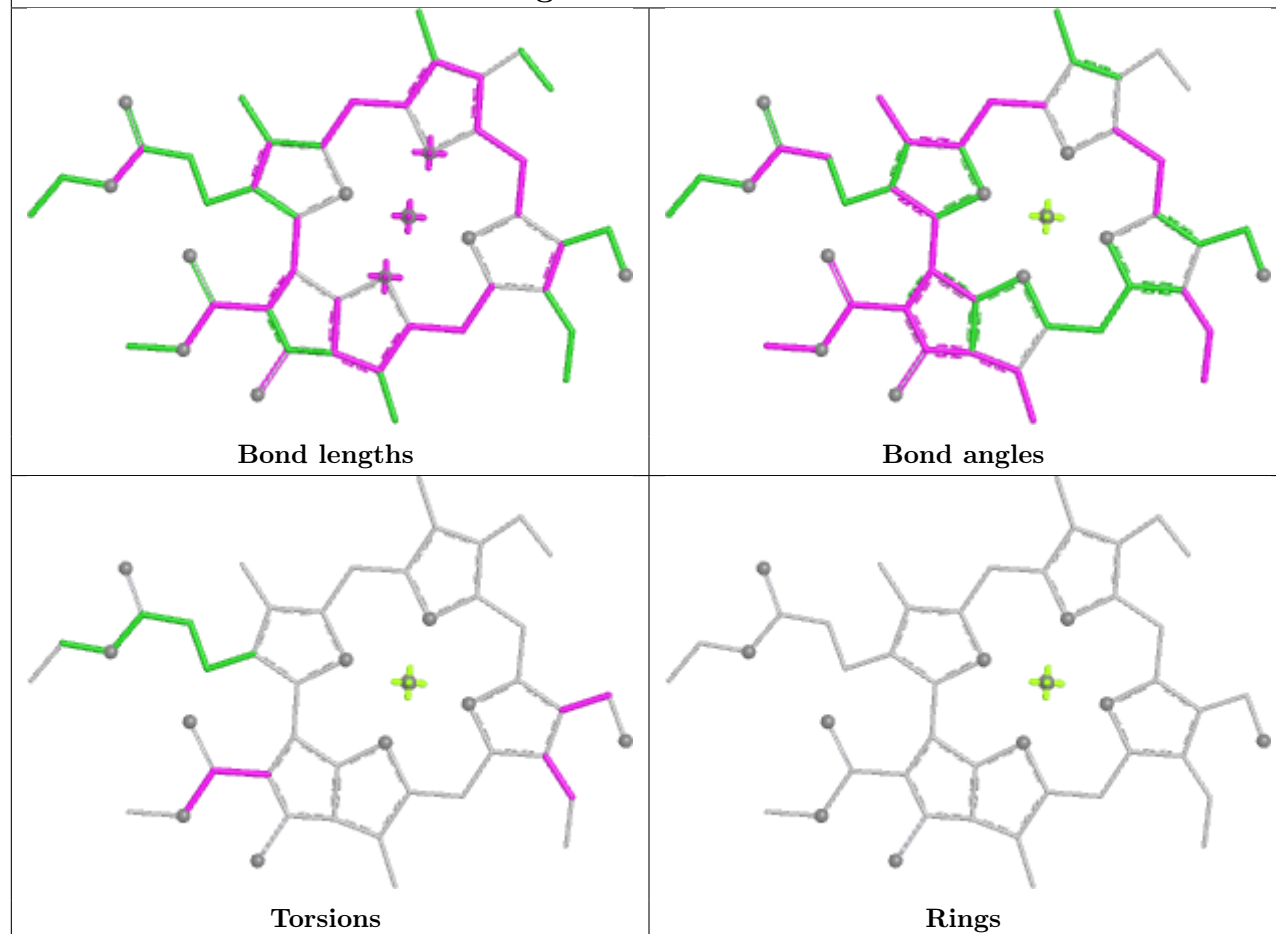


Torsions

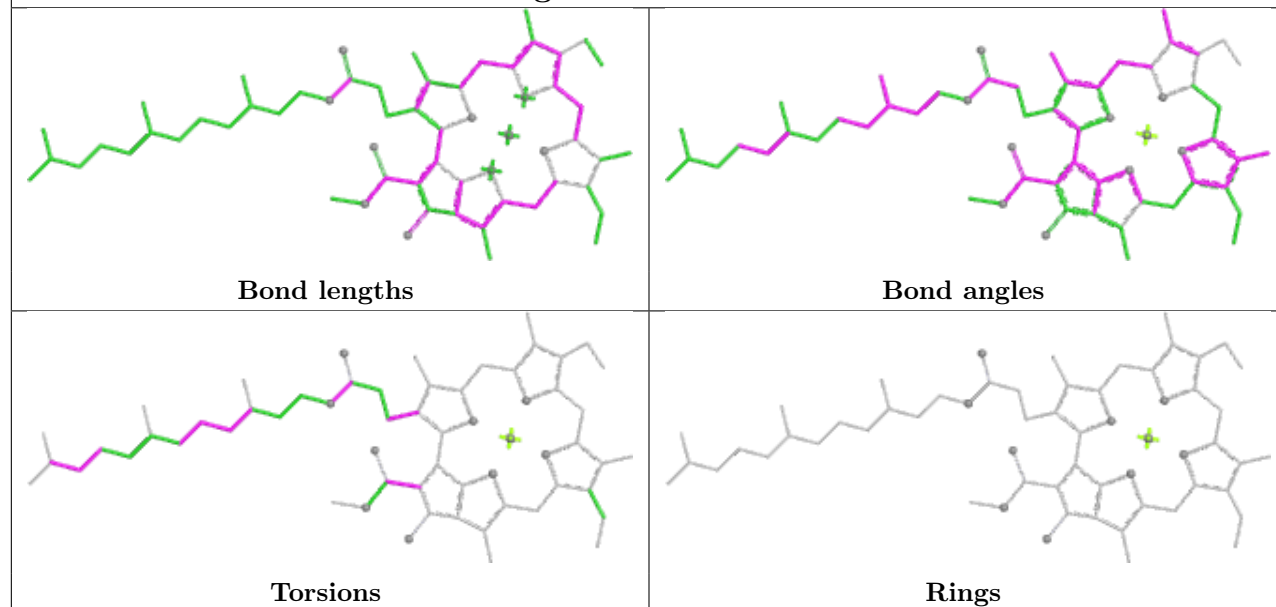


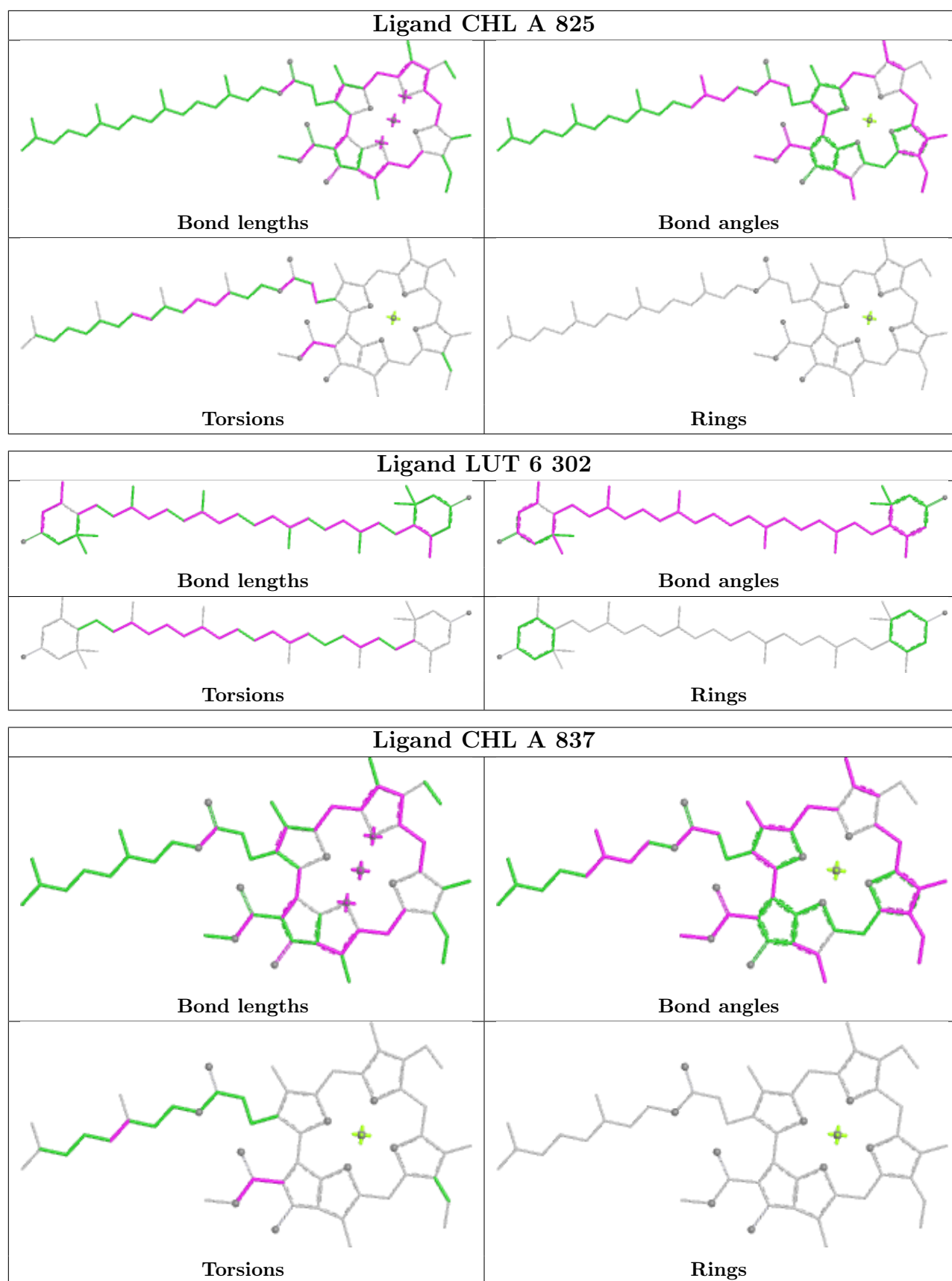
Rings

Ligand CHL a 318

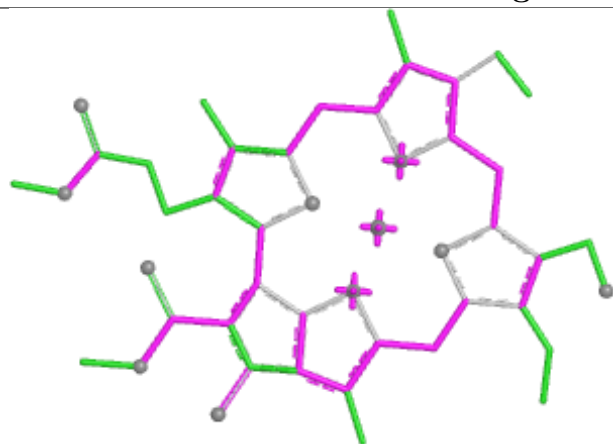


Ligand CHL L 303

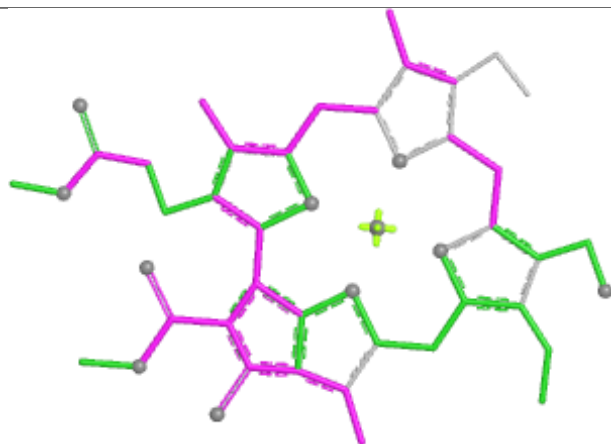




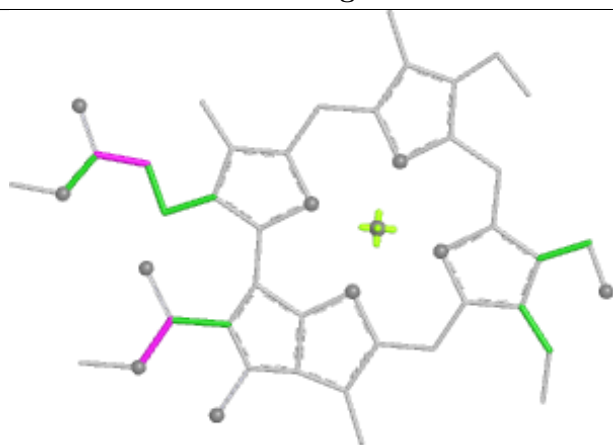
Ligand CHL K 207



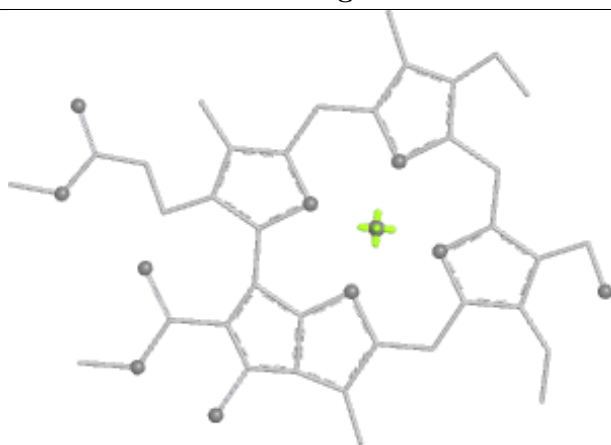
Bond lengths



Bond angles

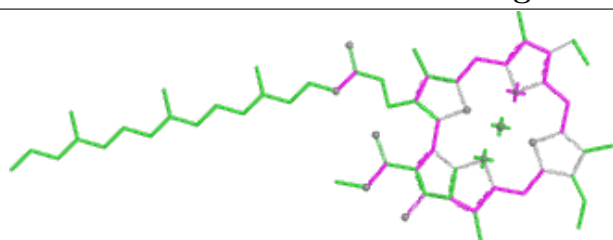


Torsions

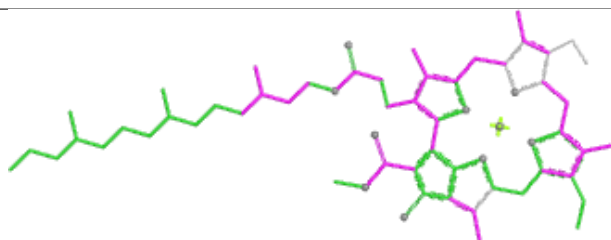


Rings

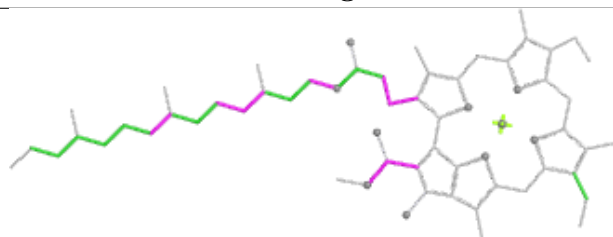
Ligand CHL A 826



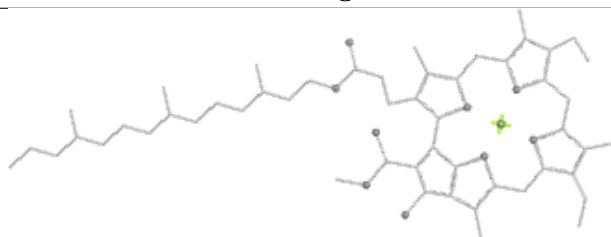
Bond lengths



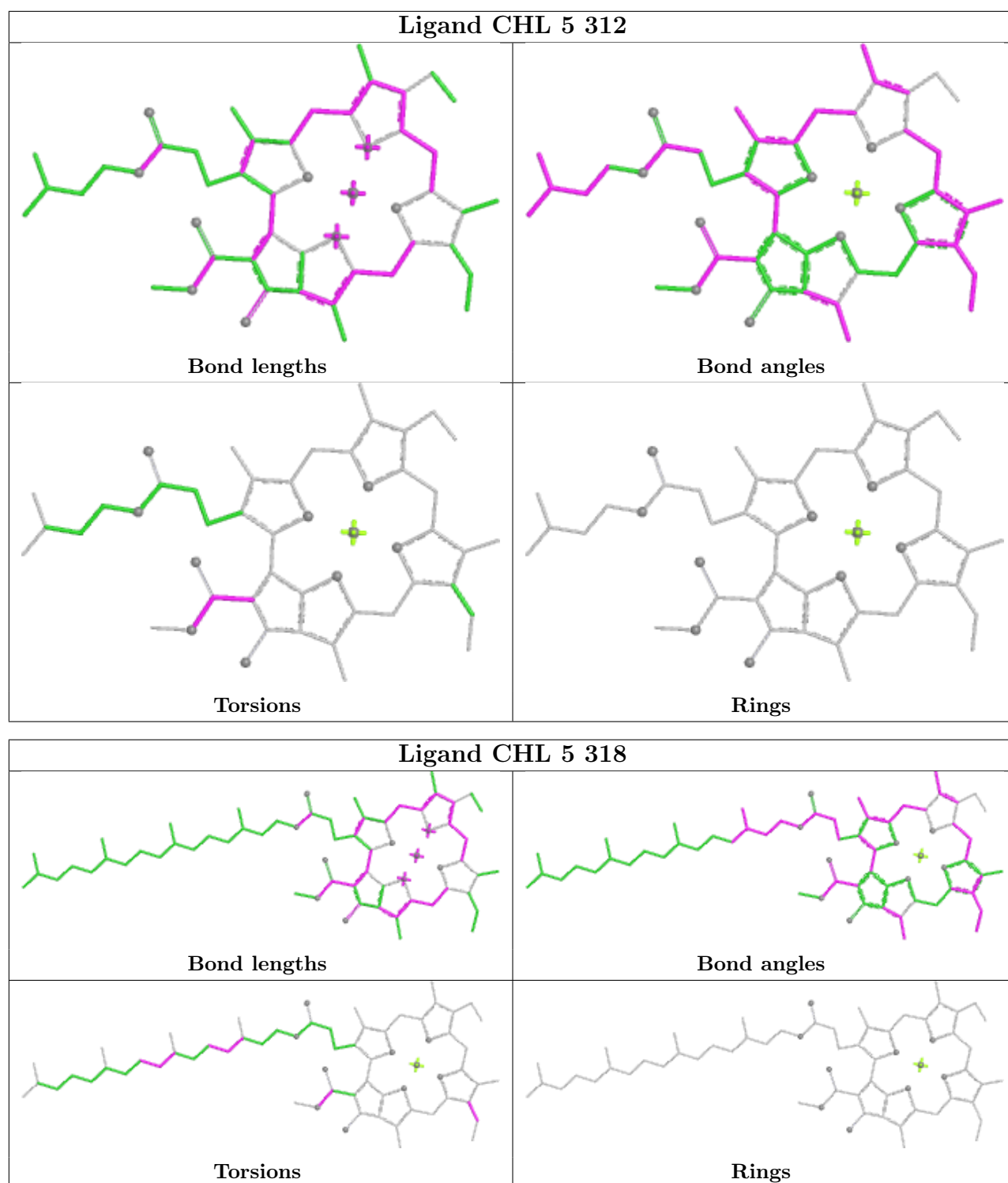
Bond angles



Torsions



Rings



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

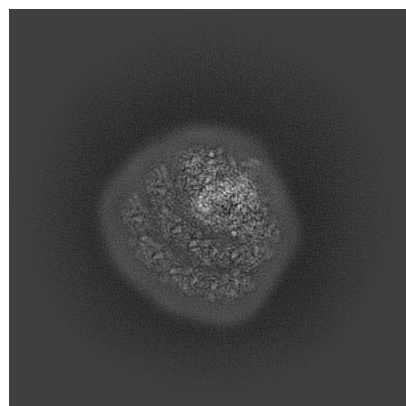
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-62512. These allow visual inspection of the internal detail of the map and identification of artifacts.

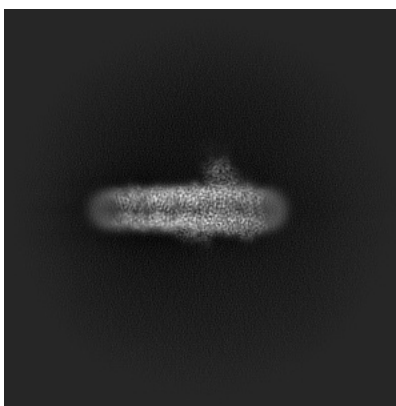
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

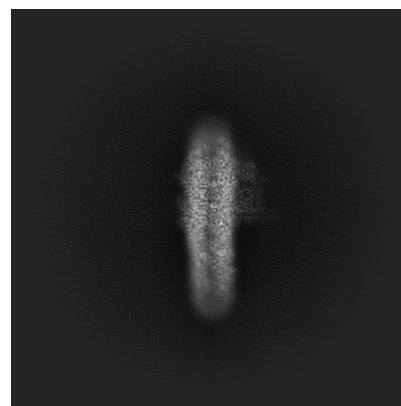
6.1.1 Primary map



X

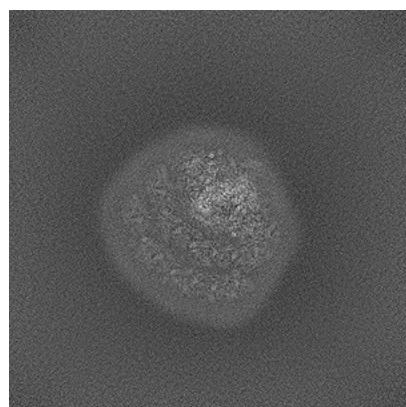


Y

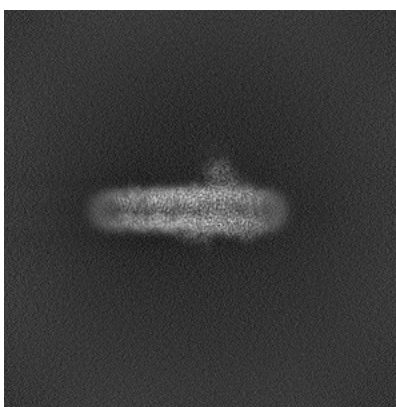


Z

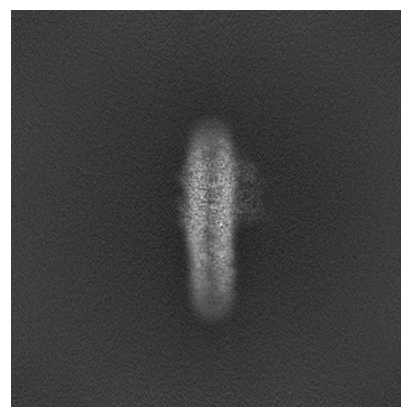
6.1.2 Raw map



X



Y

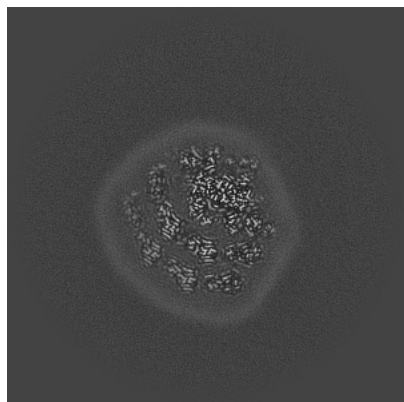


Z

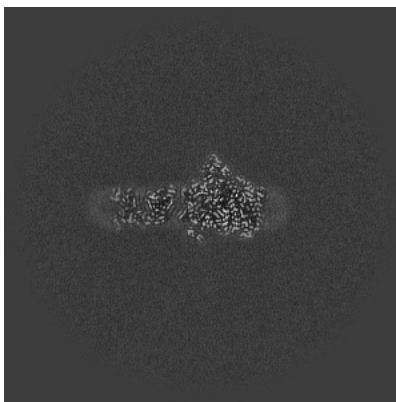
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

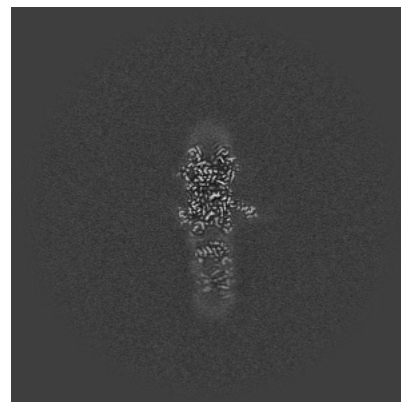
6.2.1 Primary map



X Index: 300

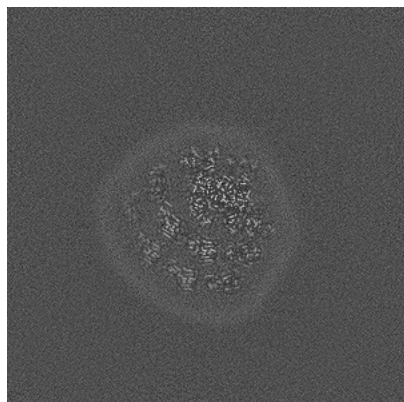


Y Index: 300

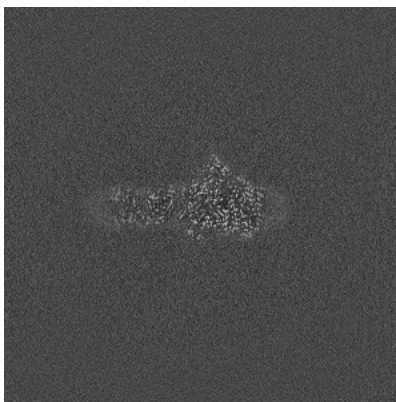


Z Index: 300

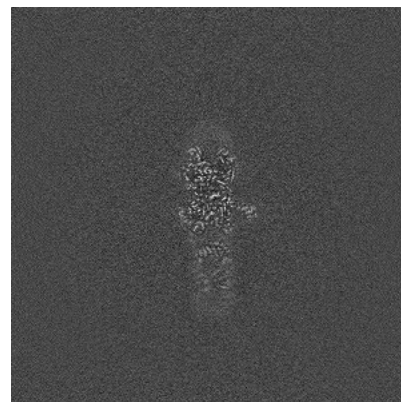
6.2.2 Raw map



X Index: 300



Y Index: 300

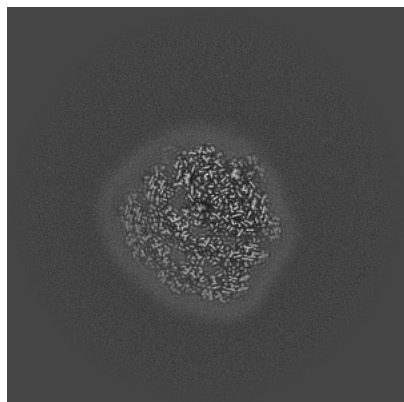


Z Index: 300

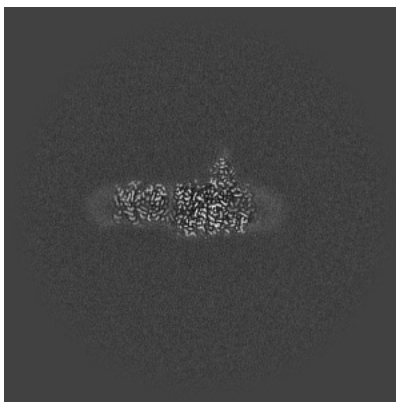
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

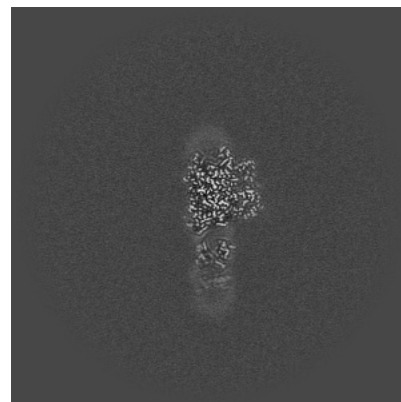
6.3.1 Primary map



X Index: 317

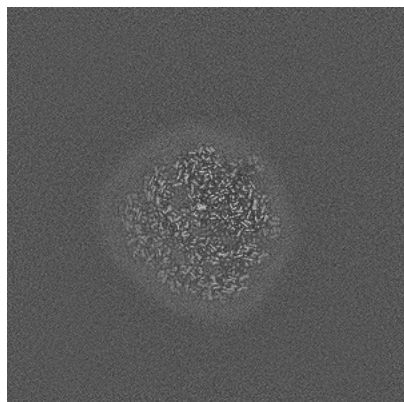


Y Index: 340

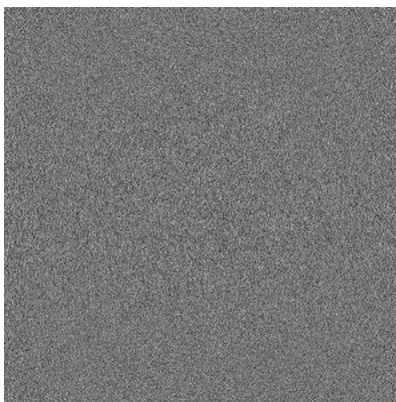


Z Index: 316

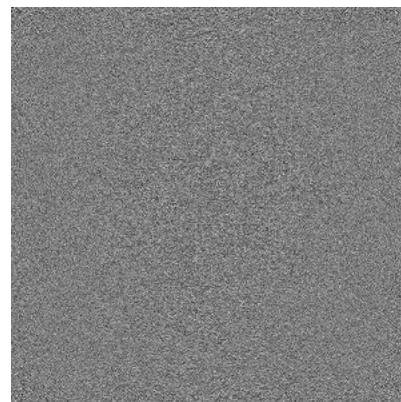
6.3.2 Raw map



X Index: 316



Y Index: 0

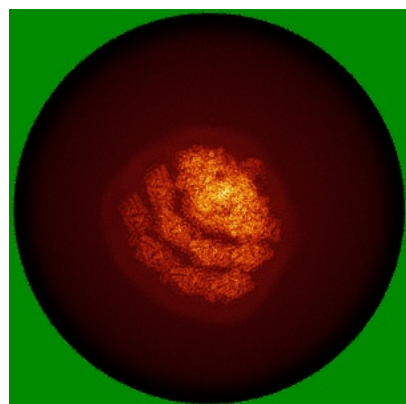


Z Index: 0

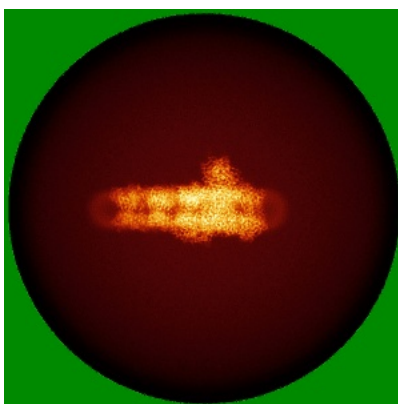
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

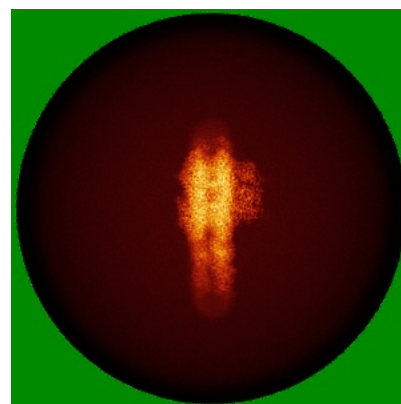
6.4.1 Primary map



X

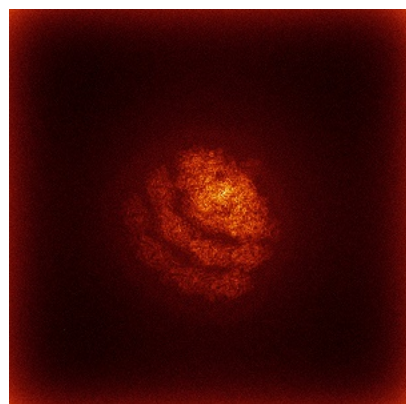


Y

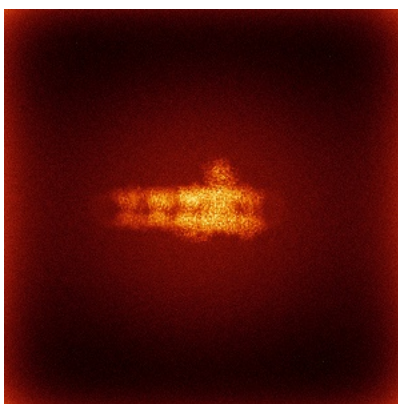


Z

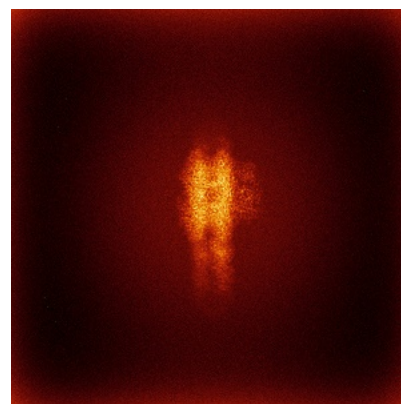
6.4.2 Raw map



X



Y

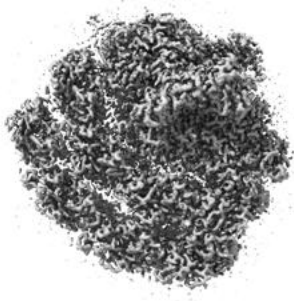


Z

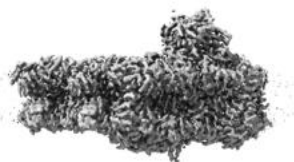
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



X



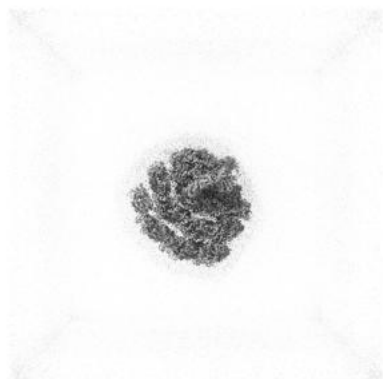
Y



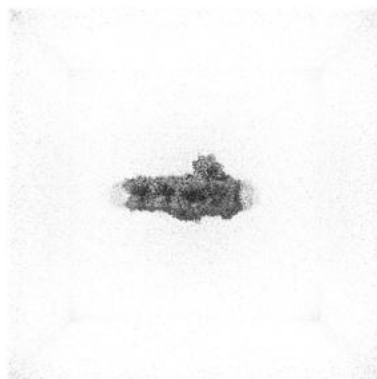
Z

The images above show the 3D surface view of the map at the recommended contour level 0.06. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X



Y



Z

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

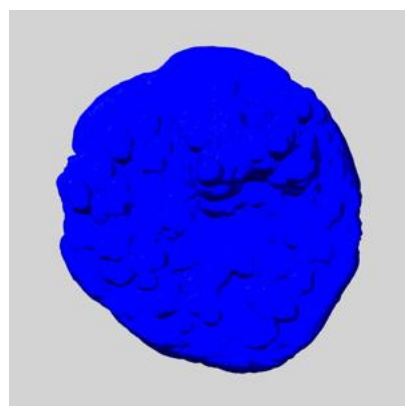
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

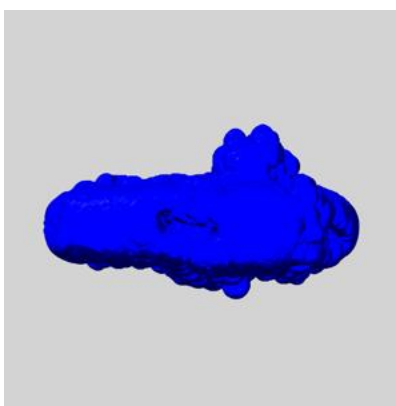
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

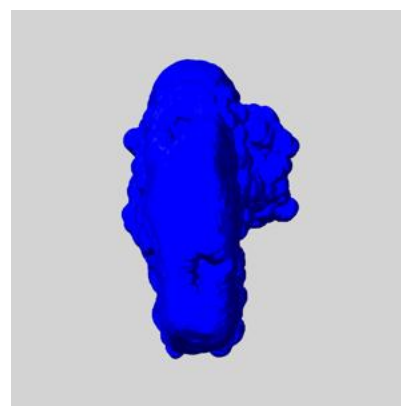
6.6.1 emd_62512_msk_1.map [i](#)



X



Y

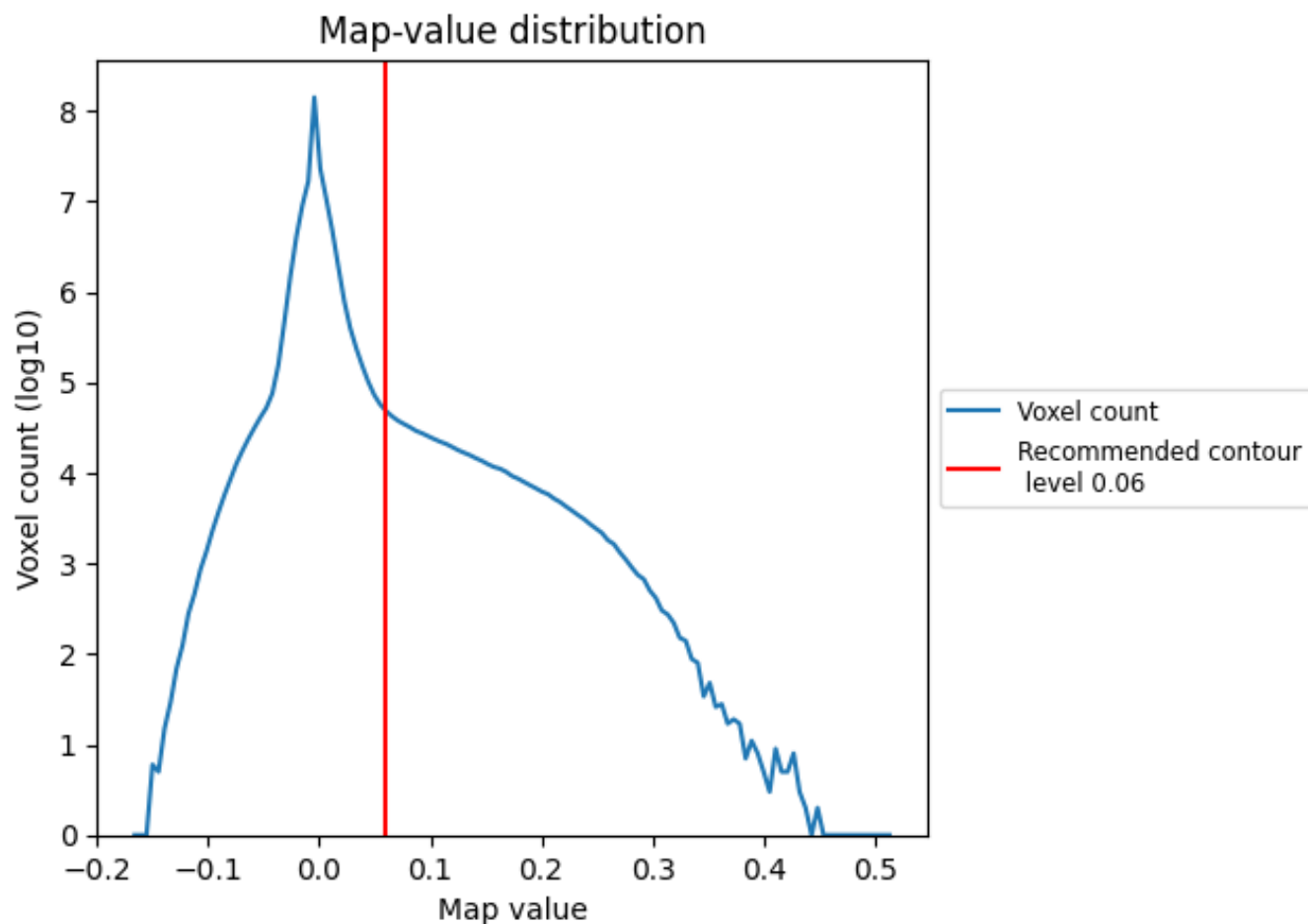


Z

7 Map analysis [i](#)

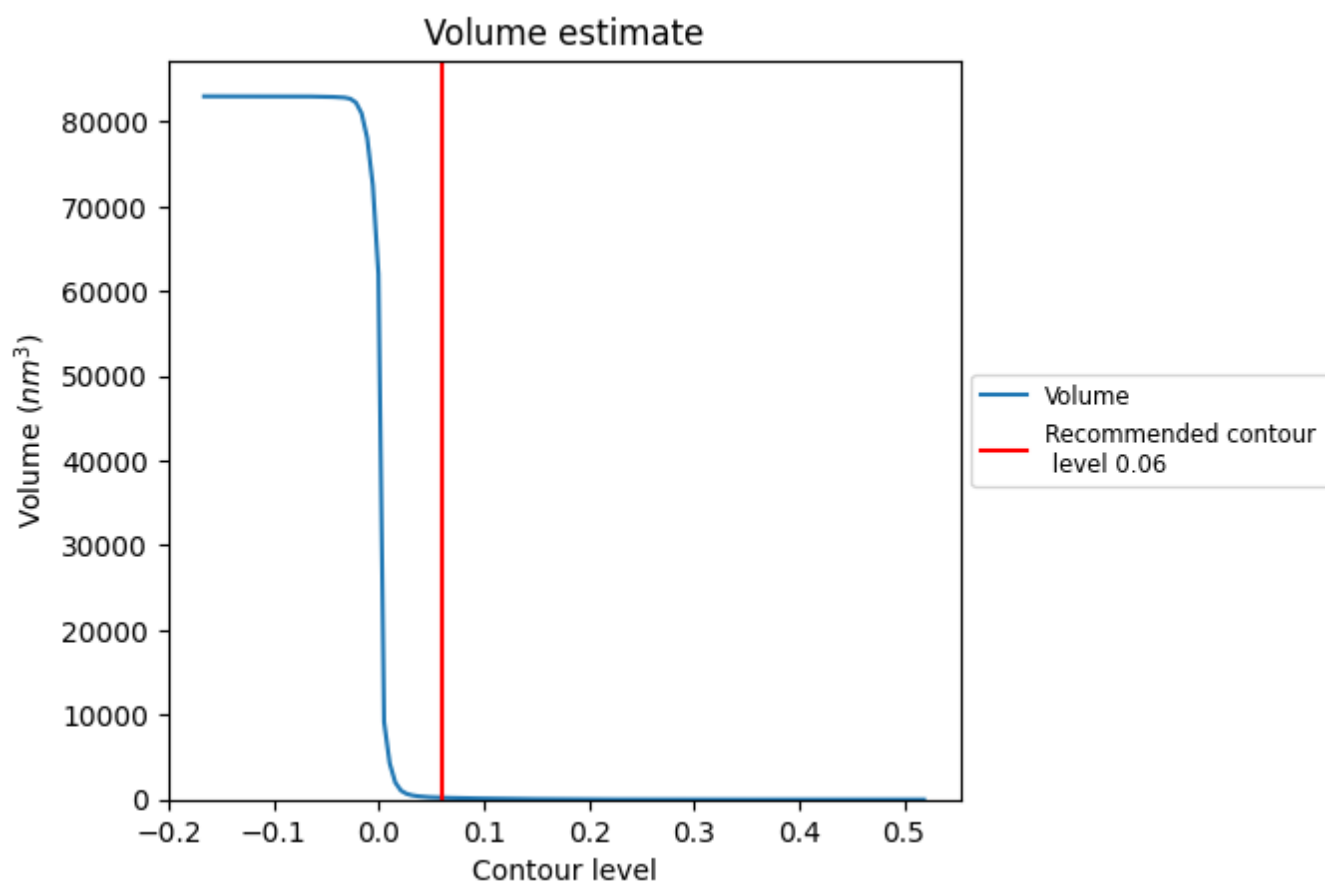
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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.

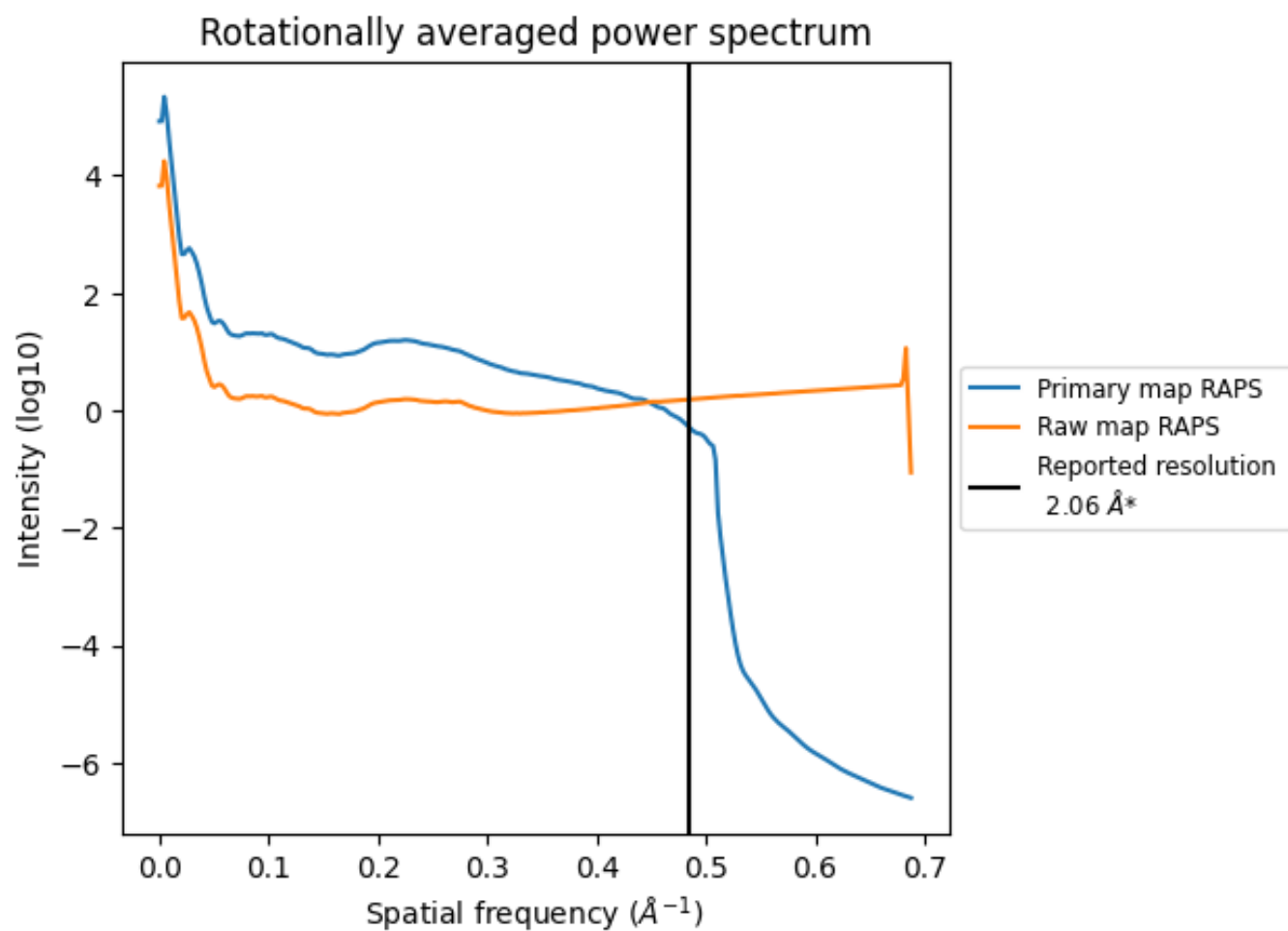
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 225 nm³; this corresponds to an approximate mass of 203 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](#)

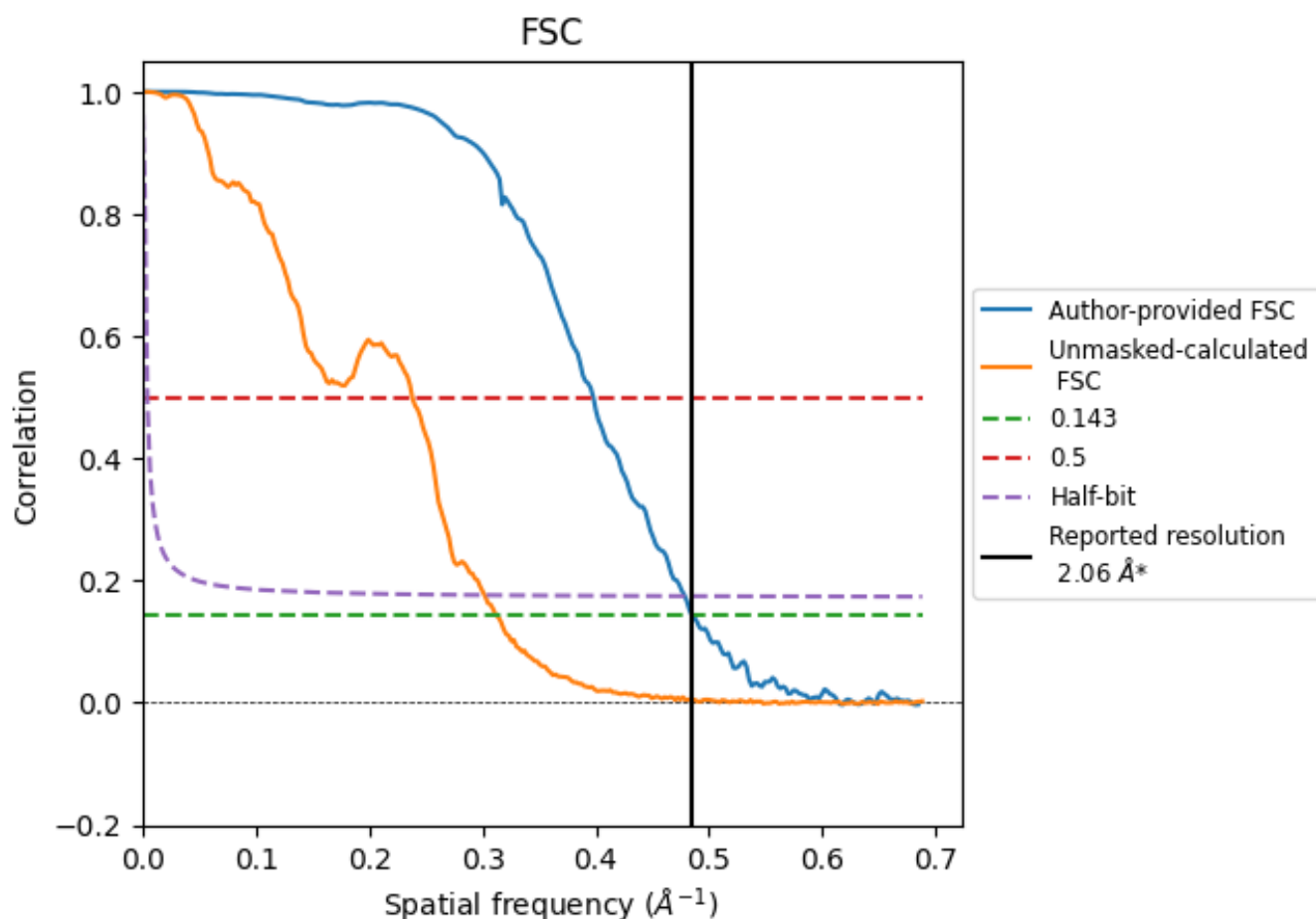


*Reported resolution corresponds to spatial frequency of 0.485 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

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 [i](#)



*Reported resolution corresponds to spatial frequency of 0.485 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

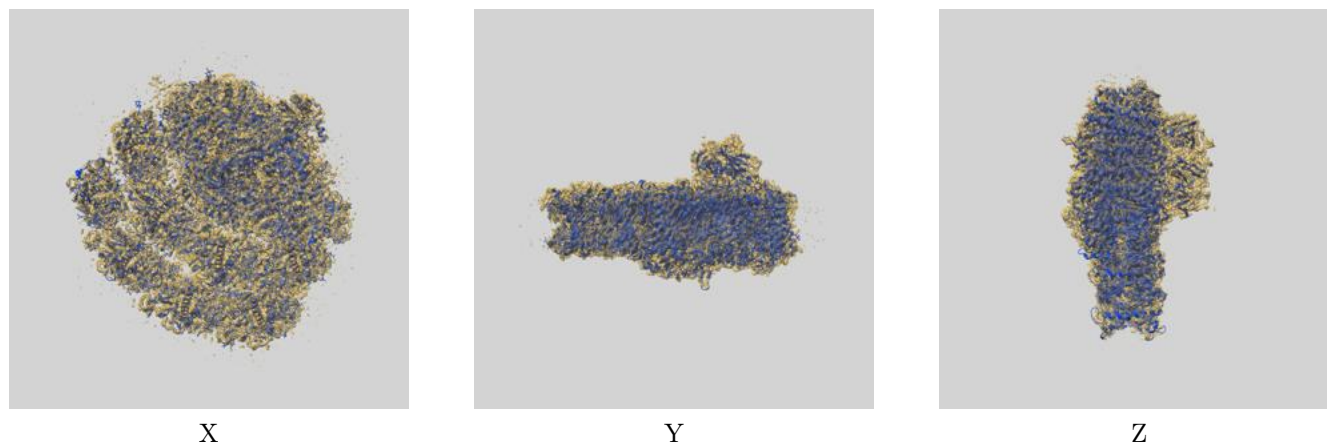
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.06	-	-
Author-provided FSC curve	2.06	2.51	2.09
Unmasked-calculated*	3.20	4.20	3.31

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.20 differs from the reported value 2.06 by more than 10 %

9 Map-model fit [i](#)

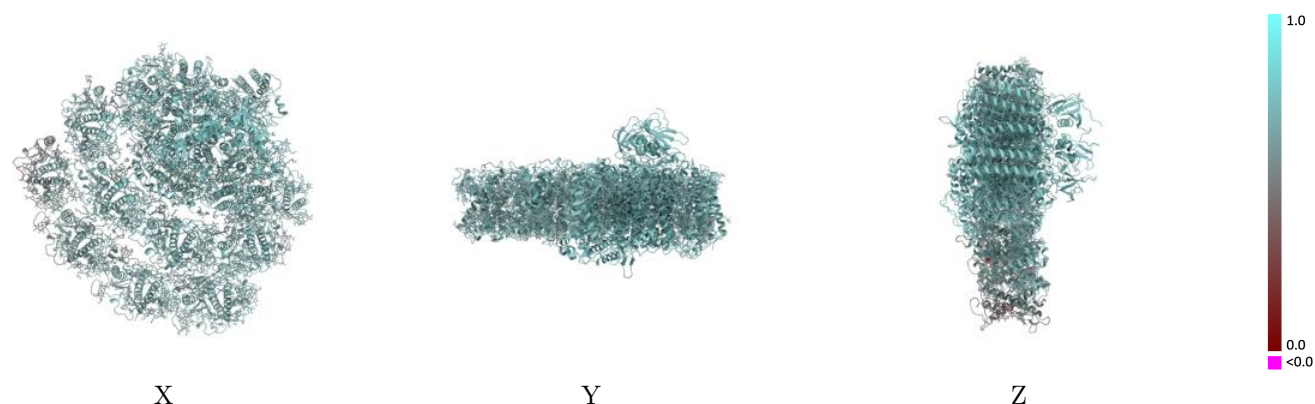
This section contains information regarding the fit between EMDB map EMD-62512 and PDB model 9KQQ. Per-residue inclusion information can be found in section [3](#) on page [37](#).

9.1 Map-model overlay [i](#)



The images above show the 3D surface view of the map at the recommended contour level 0.06 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](#)

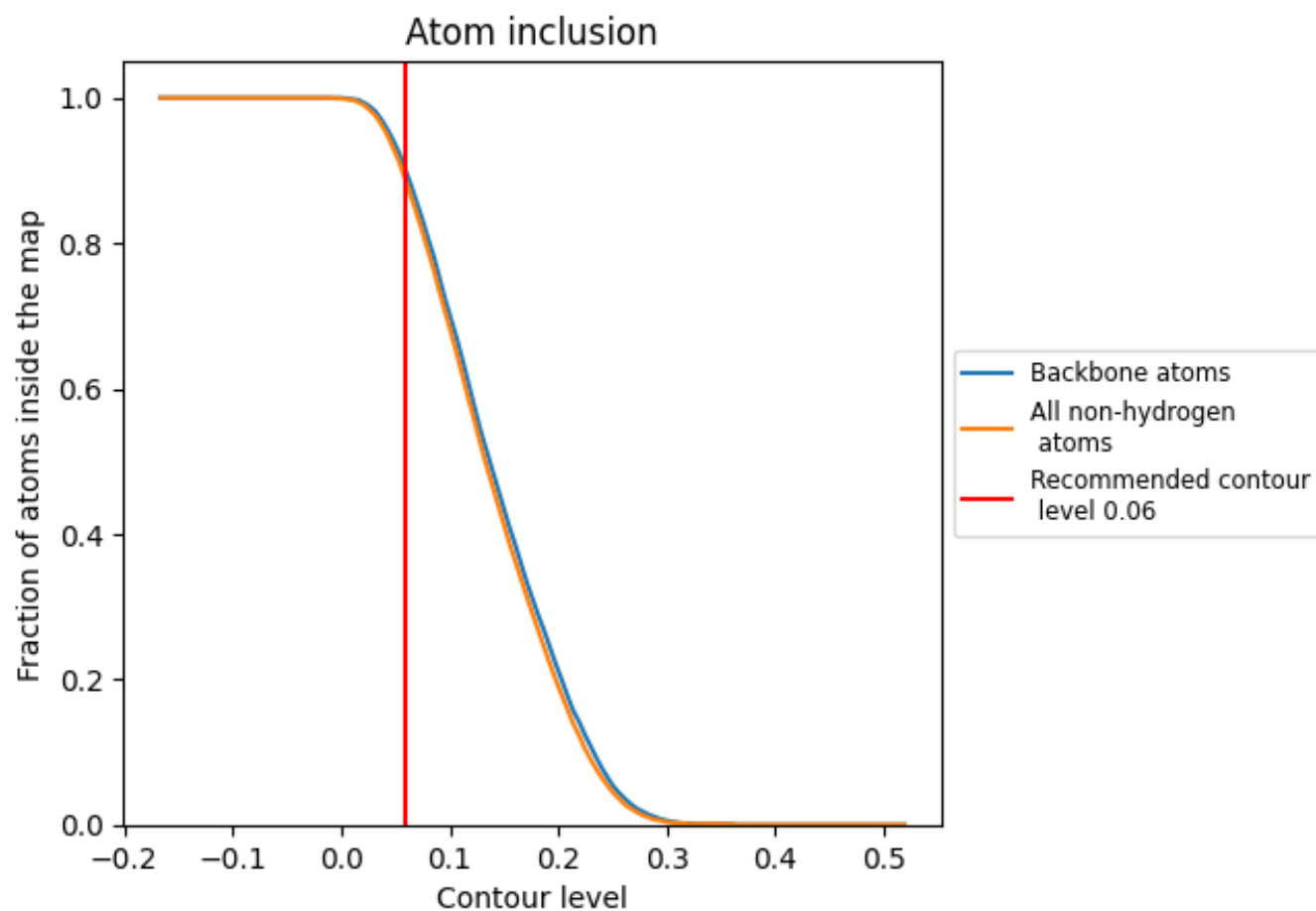


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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](#)

This section was not generated.

9.4 Atom inclusion [i](#)



At the recommended contour level, 90% of all backbone atoms, 88% 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 (0.06) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8840	0.6680
3	0.8930	0.6640
4	0.7630	0.5820
5	0.8680	0.6390
6	0.8360	0.6240
7	0.9100	0.6740
8	0.8850	0.6680
A	0.9530	0.7160
B	0.9420	0.7060
C	0.9880	0.7270
D	0.9490	0.7040
E	0.9240	0.6890
F	0.9120	0.6940
G	0.4050	0.5050
I	0.9020	0.6870
J	0.9300	0.6950
K	0.8180	0.6410
L	0.8030	0.6480
M	0.8490	0.6630
a	0.8080	0.6200
b	0.6100	0.5250

