



Full wwPDB EM Validation Report ⓘ

Dec 2, 2025 – 12:06 AM JST

PDB ID : 8ZOH / pdb_00008zoh
EMDB ID : EMD-60293
Title : Structure of the astaxanthin mutant PSI-7VCPI supercomplex in *Nanochloropsis oceanica*
Authors : Shen, L.L.; Shen, J.R.; Wang, W.D.
Deposited on : 2024-05-28
Resolution : 3.40 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

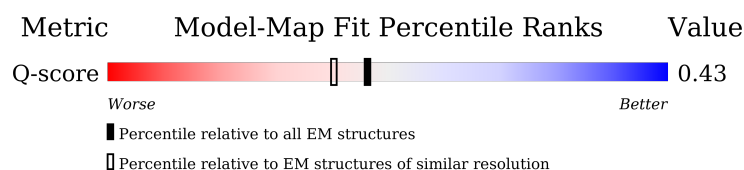
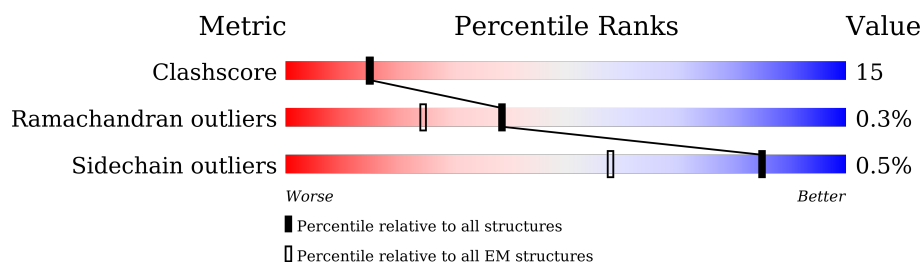
EMDB validation analysis : 0.0.1.dev129
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4-5-2 with Phenix2.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive 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) : 2.46

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 3.40 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	14717 (2.90 - 3.90)

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	5	244	6% 53% 16% 31%
2	9	232	7% 64% 22% 13%
3	8	200	• 62% 18% 18%
4	4	202	14% 73% 10% 17%

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Mol	Chain	Length	Quality of chain
4	7	202	
5	6	259	
6	1	208	
7	a	745	
8	b	737	
9	d	136	
10	e	67	
11	f	185	
12	h	128	
13	i	45	
14	j	41	
15	l	172	
16	m	30	
17	g	55	
18	c	81	

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
21	CLA	1	305	X	-	-	-
21	CLA	1	306	X	-	-	-
21	CLA	1	307	X	-	-	-
21	CLA	1	308	X	-	-	-
21	CLA	1	309	X	-	-	-
21	CLA	1	310	X	-	-	-
21	CLA	1	311	X	-	-	-
21	CLA	1	312	X	-	-	-
21	CLA	1	313	X	-	-	-
21	CLA	1	314	X	-	-	-
21	CLA	4	306	X	-	-	-
21	CLA	4	307	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	4	308	X	-	-	-
21	CLA	4	309	X	-	-	-
21	CLA	4	310	X	-	-	-
21	CLA	4	311	X	-	-	-
21	CLA	4	312	X	-	-	-
21	CLA	4	313	X	-	-	-
21	CLA	4	314	X	-	-	-
21	CLA	4	315	X	-	-	-
21	CLA	4	316	X	-	-	-
21	CLA	4	317	X	-	-	-
21	CLA	5	306	X	-	-	-
21	CLA	5	307	X	-	-	-
21	CLA	5	308	X	-	-	-
21	CLA	5	309	X	-	-	-
21	CLA	5	310	X	-	-	-
21	CLA	5	311	X	-	-	-
21	CLA	5	312	X	-	-	-
21	CLA	5	313	X	-	-	-
21	CLA	5	314	X	-	-	-
21	CLA	5	315	X	-	-	-
21	CLA	5	316	X	-	-	-
21	CLA	6	307	X	-	-	-
21	CLA	6	308	X	-	-	-
21	CLA	6	309	X	-	-	-
21	CLA	6	310	X	-	-	-
21	CLA	6	311	X	-	-	-
21	CLA	6	312	X	-	-	-
21	CLA	6	313	X	-	-	-
21	CLA	6	314	X	-	-	-
21	CLA	6	315	X	-	-	-
21	CLA	6	316	X	-	-	-
21	CLA	7	306	X	-	-	-
21	CLA	7	307	X	-	-	-
21	CLA	7	308	X	-	-	-
21	CLA	7	309	X	-	-	-
21	CLA	7	310	X	-	-	-
21	CLA	7	311	X	-	-	-
21	CLA	7	312	X	-	-	-
21	CLA	7	313	X	-	-	-
21	CLA	7	314	X	-	-	-
21	CLA	7	315	X	-	-	-
21	CLA	7	316	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	7	317	X	-	-	-
21	CLA	8	305	X	-	-	-
21	CLA	8	306	X	-	-	-
21	CLA	8	307	X	-	-	-
21	CLA	8	308	X	-	-	-
21	CLA	8	309	X	-	-	-
21	CLA	8	310	X	-	-	-
21	CLA	8	311	X	-	-	-
21	CLA	8	312	X	-	-	-
21	CLA	8	313	X	-	-	-
21	CLA	8	314	X	-	-	-
21	CLA	9	308	X	-	-	-
21	CLA	9	309	X	-	-	-
21	CLA	9	310	X	-	-	-
21	CLA	9	311	X	-	-	-
21	CLA	9	312	X	-	-	-
21	CLA	9	313	X	-	-	-
21	CLA	9	314	X	-	-	-
21	CLA	9	315	X	-	-	-
21	CLA	9	316	X	-	-	-
21	CLA	a	801	X	-	-	-
21	CLA	a	802	X	-	-	-
21	CLA	a	803	X	-	-	-
21	CLA	a	804	X	-	-	-
21	CLA	a	805	X	-	-	-
21	CLA	a	806	X	-	-	-
21	CLA	a	807	X	-	-	-
21	CLA	a	808	X	-	-	-
21	CLA	a	809	X	-	-	-
21	CLA	a	810	X	-	-	-
21	CLA	a	811	X	-	-	-
21	CLA	a	812	X	-	-	-
21	CLA	a	813	X	-	-	-
21	CLA	a	814	X	-	-	-
21	CLA	a	815	X	-	-	-
21	CLA	a	816	X	-	-	-
21	CLA	a	817	X	-	-	-
21	CLA	a	818	X	-	-	-
21	CLA	a	819	X	-	-	-
21	CLA	a	820	X	-	-	-
21	CLA	a	821	X	-	-	-
21	CLA	a	822	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	a	823	X	-	-	-
21	CLA	a	824	X	-	-	-
21	CLA	a	825	X	-	-	-
21	CLA	a	826	X	-	-	-
21	CLA	a	827	X	-	-	-
21	CLA	a	828	X	-	-	-
21	CLA	a	829	X	-	-	-
21	CLA	a	830	X	-	-	-
21	CLA	a	831	X	-	-	-
21	CLA	a	832	X	-	-	-
21	CLA	a	833	X	-	-	-
21	CLA	a	834	X	-	-	-
21	CLA	a	835	X	-	-	-
21	CLA	a	836	X	-	-	-
21	CLA	a	837	X	-	-	-
21	CLA	a	838	X	-	-	-
21	CLA	a	839	X	-	-	-
21	CLA	a	840	X	-	-	-
21	CLA	a	841	X	-	-	-
21	CLA	a	842	X	-	-	-
21	CLA	a	844	X	-	-	-
21	CLA	a	852	X	-	-	-
21	CLA	a	856	X	-	X	-
21	CLA	b	801	X	-	-	-
21	CLA	b	802	X	-	-	-
21	CLA	b	803	X	-	-	-
21	CLA	b	804	X	-	-	-
21	CLA	b	805	X	-	-	-
21	CLA	b	806	X	-	-	-
21	CLA	b	807	X	-	-	-
21	CLA	b	808	X	-	-	-
21	CLA	b	809	X	-	-	-
21	CLA	b	810	X	-	X	-
21	CLA	b	811	X	-	-	-
21	CLA	b	812	X	-	-	-
21	CLA	b	813	X	-	-	-
21	CLA	b	814	X	-	-	-
21	CLA	b	815	X	-	-	-
21	CLA	b	816	X	-	-	-
21	CLA	b	817	X	-	-	-
21	CLA	b	818	X	-	-	-
21	CLA	b	819	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	b	820	X	-	-	-
21	CLA	b	821	X	-	-	-
21	CLA	b	822	X	-	-	-
21	CLA	b	823	X	-	-	-
21	CLA	b	824	X	-	-	-
21	CLA	b	825	X	-	-	-
21	CLA	b	826	X	-	-	-
21	CLA	b	827	X	-	-	-
21	CLA	b	828	X	-	-	-
21	CLA	b	829	X	-	-	-
21	CLA	b	830	X	-	-	-
21	CLA	b	831	X	-	-	-
21	CLA	b	832	X	-	-	-
21	CLA	b	833	X	-	-	-
21	CLA	b	834	X	-	-	-
21	CLA	b	835	X	-	-	-
21	CLA	b	836	X	-	-	-
21	CLA	b	837	X	-	-	-
21	CLA	b	838	X	-	-	-
21	CLA	b	839	X	-	-	-
21	CLA	b	840	X	-	-	-
21	CLA	b	841	X	-	-	-
21	CLA	f	802	X	-	-	-
21	CLA	f	803	X	-	-	-
21	CLA	h	201	X	-	-	-
21	CLA	h	203	X	-	-	-
21	CLA	j	101	X	-	-	-
21	CLA	l	201	X	-	-	-
21	CLA	l	202	X	-	-	-
21	CLA	l	203	X	-	-	-
27	BCR	f	801	-	-	X	-
28	SF4	c	102	-	-	X	-

2 Entry composition

There are 29 unique types of molecules in this entry. The entry contains 39574 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 VCPI-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	5	169	Total	C	N	O	S	0	0
			1317	867	222	222	6		

- Molecule 2 is a protein called VCPI-9.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	9	201	Total	C	N	O	S	0	0
			1466	936	256	269	5		

- Molecule 3 is a protein called VCPI-8.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	8	164	Total	C	N	O	S	0	0
			1258	822	203	227	6		

- Molecule 4 is a protein called VCPI-4/7.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	4	168	Total	C	N	O	S	0	0
			1268	822	211	229	6		
4	7	166	Total	C	N	O	S	0	0
			1220	791	202	222	5		

- Molecule 5 is a protein called VCPI-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	6	180	Total	C	N	O	S	0	0
			1352	880	223	244	5		

- Molecule 6 is a protein called VCPI-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	1	162	Total	C	N	O	S	0	0
			1262	816	209	234	3		

- Molecule 7 is a protein called Photosystem I P700 chlorophyll a apoprotein A1.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	a	739	Total	C	N	O	S	0	0
			5827	3828	982	1000	17		

- Molecule 8 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	b	735	Total	C	N	O	S	0	0
			5865	3874	985	989	17		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
9	d	130	Total	C	N	O	S	0	0
			1014	652	175	184	3		

- Molecule 10 is a protein called Photosystem I reaction center subunit IV.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	e	61	Total	C	N	O	0	0
			494	314	86	94		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
11	f	160	Total	C	N	O	S	0	0
			1266	815	213	235	3		

- Molecule 12 is a protein called PsaR.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	h	85	Total	C	N	O	S	0	0
			646	427	100	117	2		

- Molecule 13 is a protein called Photosystem I reaction center subunit VIII.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	i	34	Total	C	N	O	S	0	0
			271	189	36	45	1		

- Molecule 14 is a protein called Photosystem I reaction center subunit IX.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	j	41	Total	C	N	O	S	0	0
			339	233	48	57	1		

- Molecule 15 is a protein called PSI subunit V.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	l	171	Total	C	N	O		0	0
			1283	848	203	232			

- Molecule 16 is a protein called PsaM.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	m	30	Total	C	N	O		0	0
			210	137	35	38			

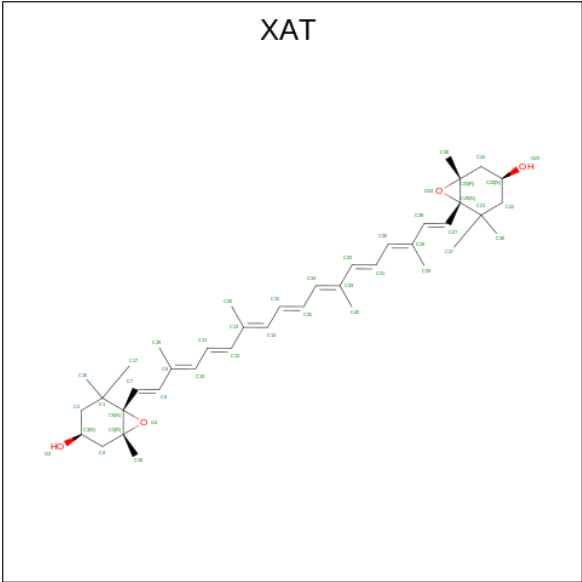
- Molecule 17 is a protein called PsaS.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	g	50	Total	C	N	O		0	0
			250	150	50	50			

- Molecule 18 is a protein called Photosystem I iron-sulfur center.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	c	80	Total	C	N	O	S	0	0
			596	366	103	117	10		

- Molecule 19 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).



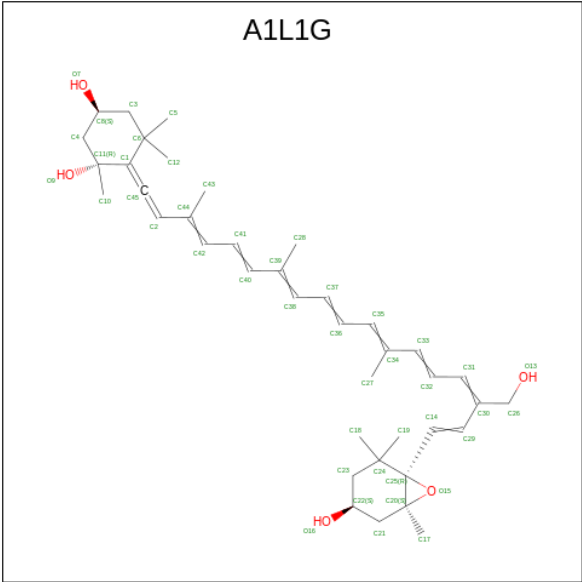
Mol	Chain	Residues	Atoms			AltConf
19	5	1	Total	C	O	0
			44	40	4	
19	5	1	Total	C	O	0
			44	40	4	
19	5	1	Total	C	O	0
			44	40	4	
19	5	1	Total	C	O	0
			44	40	4	
19	9	1	Total	C	O	0
			44	40	4	
19	9	1	Total	C	O	0
			44	40	4	
19	9	1	Total	C	O	0
			44	40	4	
19	8	1	Total	C	O	0
			44	40	4	
19	8	1	Total	C	O	0
			44	40	4	
19	8	1	Total	C	O	0
			44	40	4	
19	4	1	Total	C	O	0
			44	40	4	
19	4	1	Total	C	O	0
			44	40	4	
19	4	1	Total	C	O	0
			44	40	4	
19	4	1	Total	C	O	0
			44	40	4	

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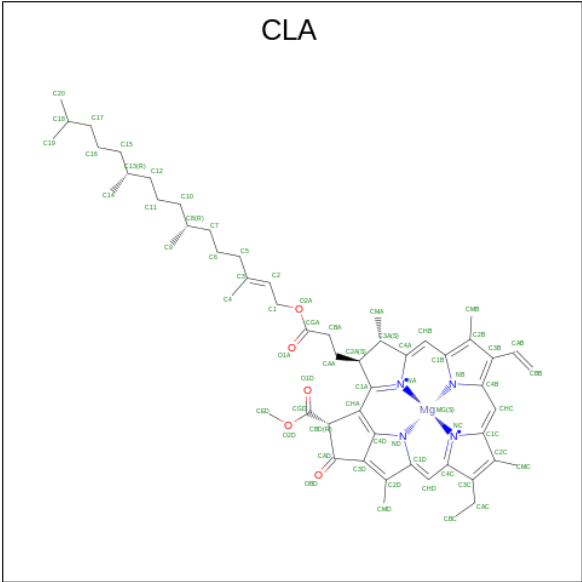
Mol	Chain	Residues	Atoms			AltConf
19	4	1	Total	C	O	0
			44	40	4	
19	6	1	Total	C	O	0
			44	40	4	
19	6	1	Total	C	O	0
			44	40	4	
19	6	1	Total	C	O	0
			44	40	4	
19	6	1	Total	C	O	0
			44	40	4	
19	7	1	Total	C	O	0
			44	40	4	
19	7	1	Total	C	O	0
			44	40	4	
19	7	1	Total	C	O	0
			44	40	4	
19	7	1	Total	C	O	0
			44	40	4	
19	1	1	Total	C	O	0
			44	40	4	
19	1	1	Total	C	O	0
			44	40	4	
19	a	1	Total	C	O	0
			44	40	4	
19	a	1	Total	C	O	0
			44	40	4	

- Molecule 20 is (1 {R},3 {S})-6-[(3 {E},5 {E},7 {E},9 {E},11 {E},13 {E},15 {Z},17 {E})-16-(hydroxymethyl)-3,7,12-trimethyl-18-[(1 {S},4 {S},6 {R})-2,2,6-trimethyl-4-oxidanyl-7-oxa bicyclo[4.1.0]heptan-1-yl]octadeca-1,3,5,7,9,11,13,15,17-nonaenylidene]-1,5,5-trimethyl-cyclohexane-1,3-diol (CCD ID: A1L1G) (formula: C₄₀H₅₆O₅) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
20	5	1	Total	C	O	0
			45	40	5	
20	9	1	Total	C	O	0
			45	40	5	
20	9	1	Total	C	O	0
			45	40	5	
20	7	1	Total	C	O	0
			45	40	5	
20	1	1	Total	C	O	0
			45	40	5	

- Molecule 21 is CHLOROPHYLL A (CCD ID: CLA) (formula: C₅₅H₇₂MgN₄O₅) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
21	5	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
21	5	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	5	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
21	5	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	5	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	5	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
21	5	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
21	5	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
21	5	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	5	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
21	5	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
21	9	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	9	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
21	9	1	Total	C	Mg	N	O	0
			46	36	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
21	9	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	9	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	9	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	9	1	Total 55	C 45	Mg 1	N 4	O 5	0
21	9	1	Total 42	C 34	Mg 1	N 4	O 3	0
21	9	1	Total 62	C 52	Mg 1	N 4	O 5	0
21	8	1	Total 43	C 35	Mg 1	N 4	O 3	0
21	8	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	8	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	8	1	Total 55	C 45	Mg 1	N 4	O 5	0
21	8	1	Total 57	C 47	Mg 1	N 4	O 5	0
21	8	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	8	1	Total 56	C 46	Mg 1	N 4	O 5	0
21	8	1	Total 52	C 42	Mg 1	N 4	O 5	0
21	8	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	8	1	Total 41	C 33	Mg 1	N 4	O 3	0
21	4	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	4	1	Total 56	C 46	Mg 1	N 4	O 5	0
21	4	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	4	1	Total 50	C 40	Mg 1	N 4	O 5	0
21	4	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
21	4	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	4	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	4	1	Total 53	C 43	Mg 1	N 4	O 5	0
21	4	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	4	1	Total 41	C 33	Mg 1	N 4	O 3	0
21	4	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	4	1	Total 55	C 45	Mg 1	N 4	O 5	0
21	6	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	6	1	Total 58	C 48	Mg 1	N 4	O 5	0
21	6	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	6	1	Total 52	C 42	Mg 1	N 4	O 5	0
21	6	1	Total 42	C 34	Mg 1	N 4	O 3	0
21	6	1	Total 51	C 41	Mg 1	N 4	O 5	0
21	6	1	Total 52	C 42	Mg 1	N 4	O 5	0
21	6	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	6	1	Total 41	C 33	Mg 1	N 4	O 3	0
21	6	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	7	1	Total 48	C 38	Mg 1	N 4	O 5	0
21	7	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	7	1	Total 60	C 50	Mg 1	N 4	O 5	0
21	7	1	Total 47	C 37	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
21	7	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
21	7	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
21	7	1	Total	C	Mg	N	O	0
			48	38	1	4	5	
21	7	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
21	7	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	7	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
21	7	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
21	7	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			61	51	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			53	43	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
21	1	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			58	48	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
21	a	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			62	52	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			56	46	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			49	39	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			46	36	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
21	a	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			62	52	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
21	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			53	43	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			59	49	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
21	b	1	Total	C	Mg	N	O	0
			51	41	1	4	5	

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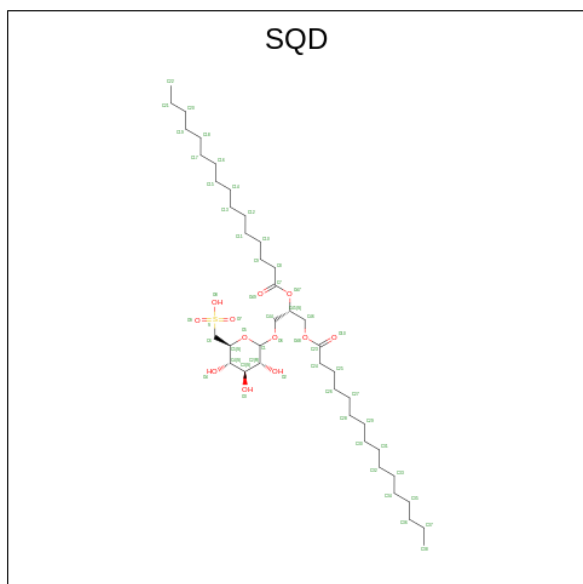
Mol	Chain	Residues	Atoms					AltConf
21	b	1	Total 60	C 50	Mg 1	N 4	O 5	0
21	b	1	Total 53	C 43	Mg 1	N 4	O 5	0
21	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	b	1	Total 64	C 54	Mg 1	N 4	O 5	0
21	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	b	1	Total 41	C 33	Mg 1	N 4	O 3	0
21	b	1	Total 49	C 39	Mg 1	N 4	O 5	0
21	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	b	1	Total 58	C 48	Mg 1	N 4	O 5	0
21	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	b	1	Total 53	C 43	Mg 1	N 4	O 5	0
21	b	1	Total 58	C 48	Mg 1	N 4	O 5	0
21	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	f	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
21	f	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
21	h	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	h	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	j	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
21	l	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
21	l	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
21	l	1	Total	C	Mg	N	O	0
			46	36	1	4	5	

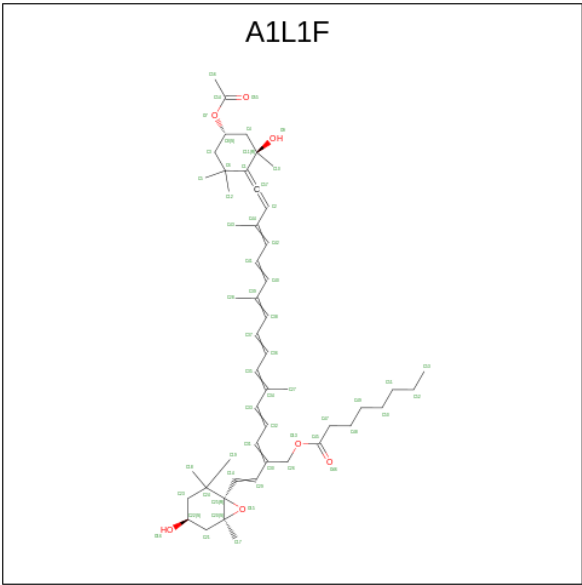
- Molecule 22 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (CCD ID: SQD) (formula: C₄₁H₇₈O₁₂S) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
22	5	1	Total	C	O	S	0
			35	22	12	1	
22	1	1	Total	C	O	S	0
			45	32	12	1	

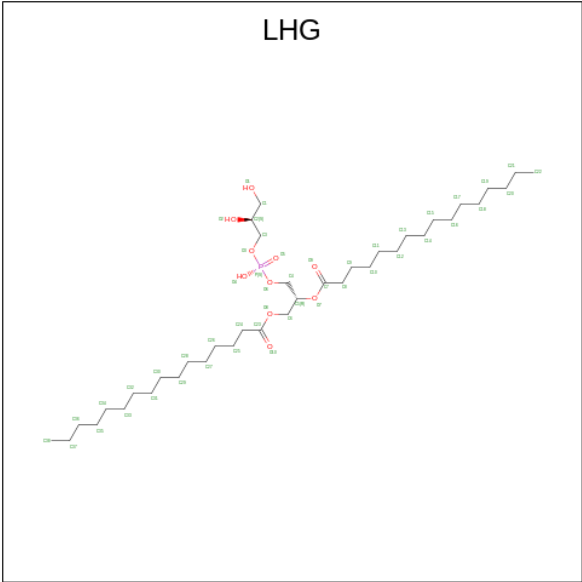
- Molecule 23 is [(2 {Z},4 {E},6 {E},8 {E},10 {E},12 {E},14 {E})-17-[(4 {S},6 {R})-4-acetyl oxy-2,2,6,6-trimethyl-6-oxidanyl-cyclohexylidene]-6,11,15-trimethyl-2-[({E})-2-[(1 {S},4 {S},

6 {R}-2,2,6-trimethyl-4-oxidanyl-7-oxabicyclo[4.1.0]heptan-1-yl]ethenyl]heptadeca-2,4,6,8,10,12,14,16-octaenyl] octanoate (CCD ID: A1L1F) (formula: C₅₀H₇₂O₇) (labeled as "Ligand of Interest" by depositor).



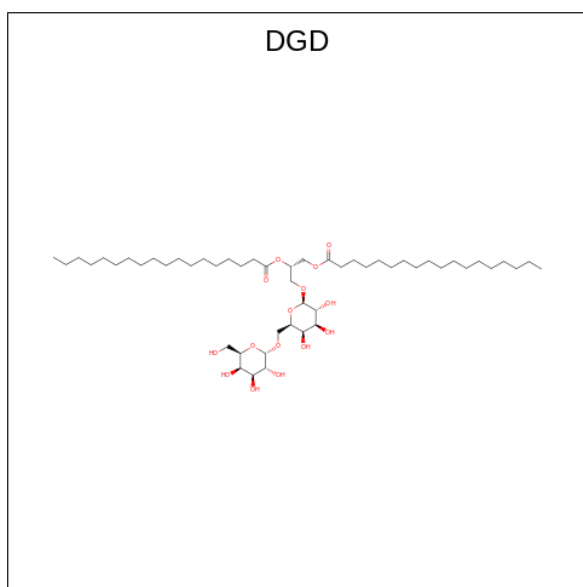
Mol	Chain	Residues	Atoms			AltConf
23	9	1	Total	C	O	0
			57	50	7	
23	8	1	Total	C	O	0
			57	50	7	
23	6	1	Total	C	O	0
			57	50	7	
23	6	1	Total	C	O	0
			53	46	7	
23	1	1	Total	C	O	0
			57	50	7	
23	h	1	Total	C	O	0
			57	50	7	

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



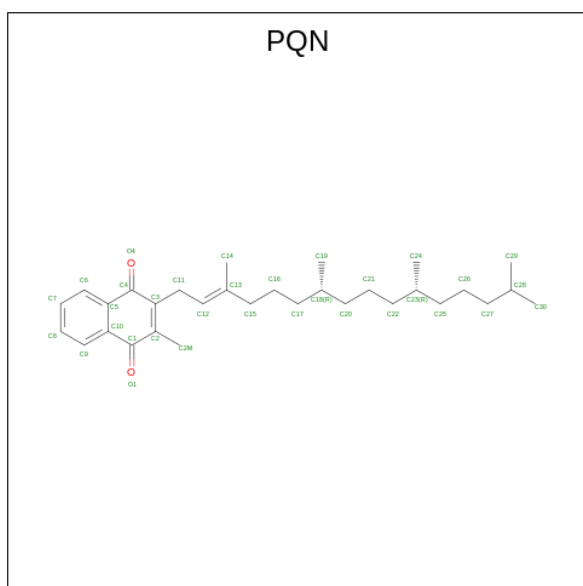
Mol	Chain	Residues	Atoms				AltConf
24	9	1	Total	C	O	P	0
			36	25	10	1	
24	a	1	Total	C	O	P	0
			48	37	10	1	
24	a	1	Total	C	O	P	0
			27	16	10	1	
24	b	1	Total	C	O	P	0
			31	20	10	1	
24	m	1	Total	C	O	P	0
			46	35	10	1	

- Molecule 25 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: C₅₁H₉₆O₁₅) (labeled as "Ligand of Interest" by depositor).



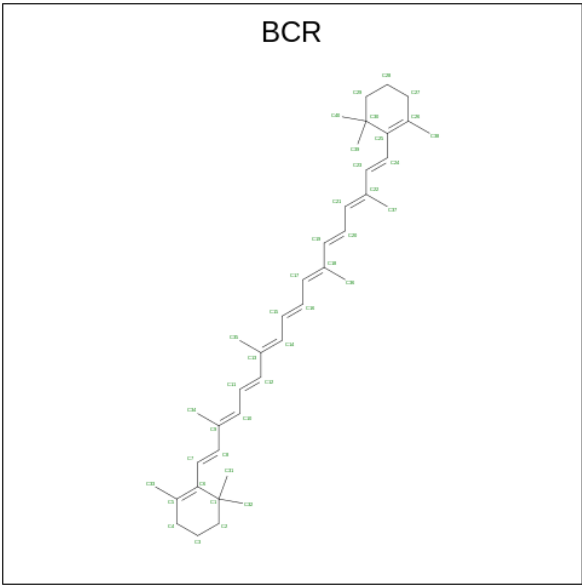
Mol	Chain	Residues	Atoms			AltConf
25	8	1	Total	C	O	0
			40	25	15	
25	4	1	Total	C	O	0
			40	25	15	
25	b	1	Total	C	O	0
			57	42	15	

- Molecule 26 is PHYLLOQUINONE (CCD ID: PQN) (formula: $C_{31}H_{46}O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
26	a	1	Total	C	O	0
			33	31	2	
26	b	1	Total	C	O	0
			33	31	2	

- Molecule 27 is BETA-CAROTENE (CCD ID: BCR) (formula: C₄₀H₅₆) (labeled as "Ligand of Interest" by depositor).



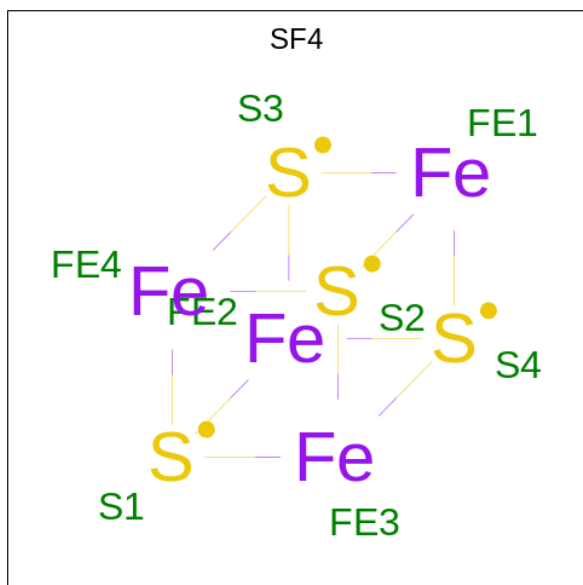
Mol	Chain	Residues	Atoms		AltConf
27	a	1	Total	C	0
			40	40	
27	a	1	Total	C	0
			40	40	
27	a	1	Total	C	0
			40	40	
27	a	1	Total	C	0
			40	40	
27	b	1	Total	C	0
			40	40	
27	b	1	Total	C	0
			40	40	
27	b	1	Total	C	0
			40	40	
27	b	1	Total	C	0
			40	40	

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Mol	Chain	Residues	Atoms	AltConf
27	b	1	Total C 40 40	0
27	b	1	Total C 40 40	0
27	b	1	Total C 40 40	0
27	b	1	Total C 40 40	0
27	f	1	Total C 40 40	0
27	f	1	Total C 40 40	0
27	i	1	Total C 40 40	0
27	i	1	Total C 40 40	0
27	j	1	Total C 40 40	0
27	m	1	Total C 40 40	0

- Molecule 28 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4) (labeled as "Ligand of Interest" by depositor).



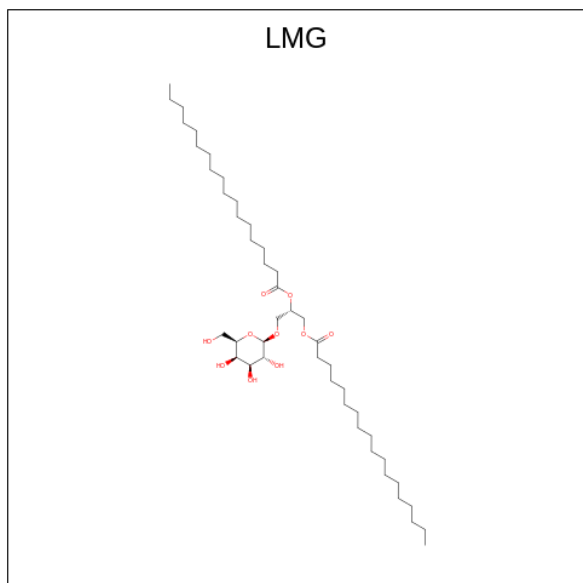
Mol	Chain	Residues	Atoms	AltConf
28	a	1	Total Fe S 8 4 4	0

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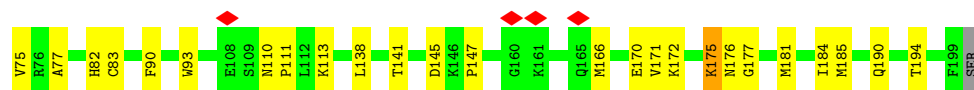
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Mol	Chain	Residues	Atoms			AltConf
28	c	1	Total	Fe	S	0
			8	4	4	
28	c	1	Total	Fe	S	0
			8	4	4	

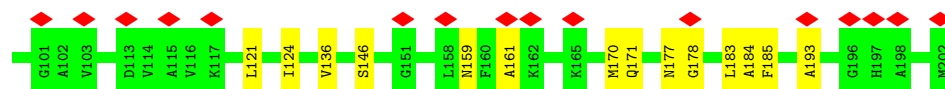
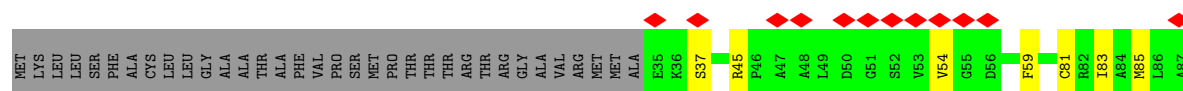
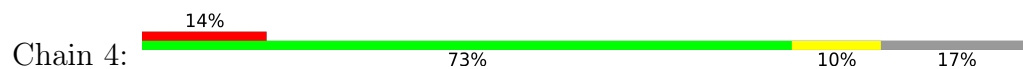
- Molecule 29 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (CCD ID: LMG) (formula: $C_{45}H_{86}O_{10}$) (labeled as "Ligand of Interest" by depositor).



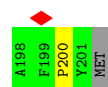
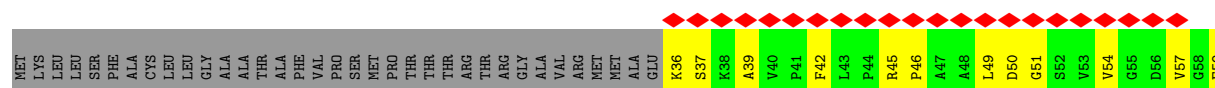
Mol	Chain	Residues	Atoms			AltConf
29	a	1	Total	C	O	0
			34	24	10	
29	j	1	Total	C	O	0
			32	22	10	



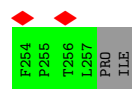
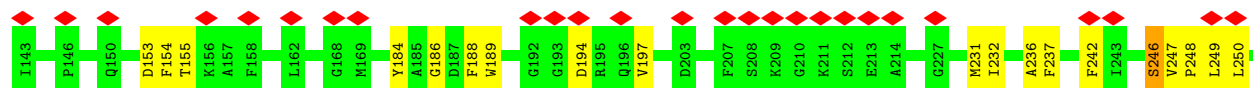
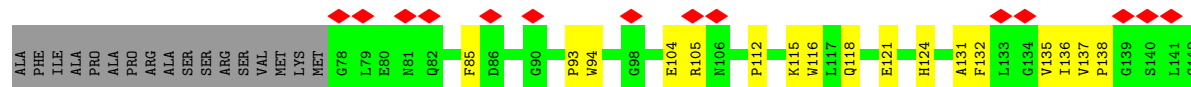
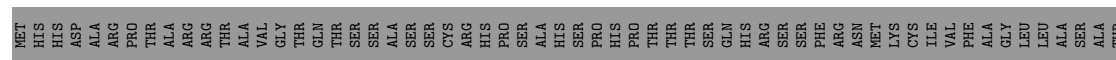
• Molecule 4: VCPI-4/7



• Molecule 4: VCPI-4/7

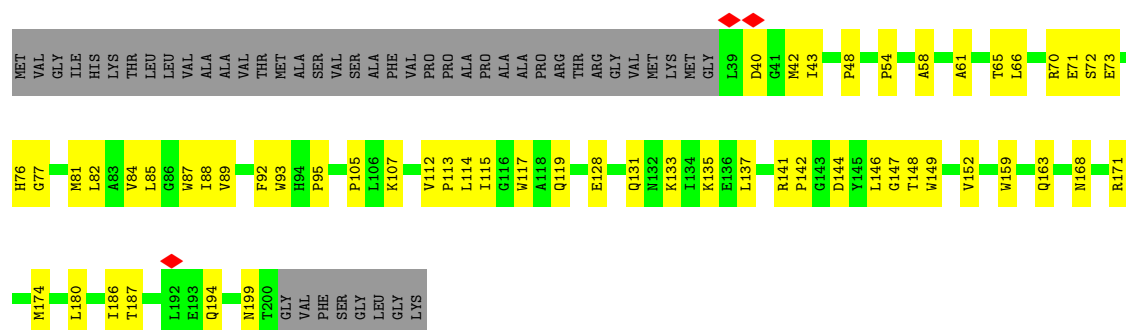


• Molecule 5: VCPI-6



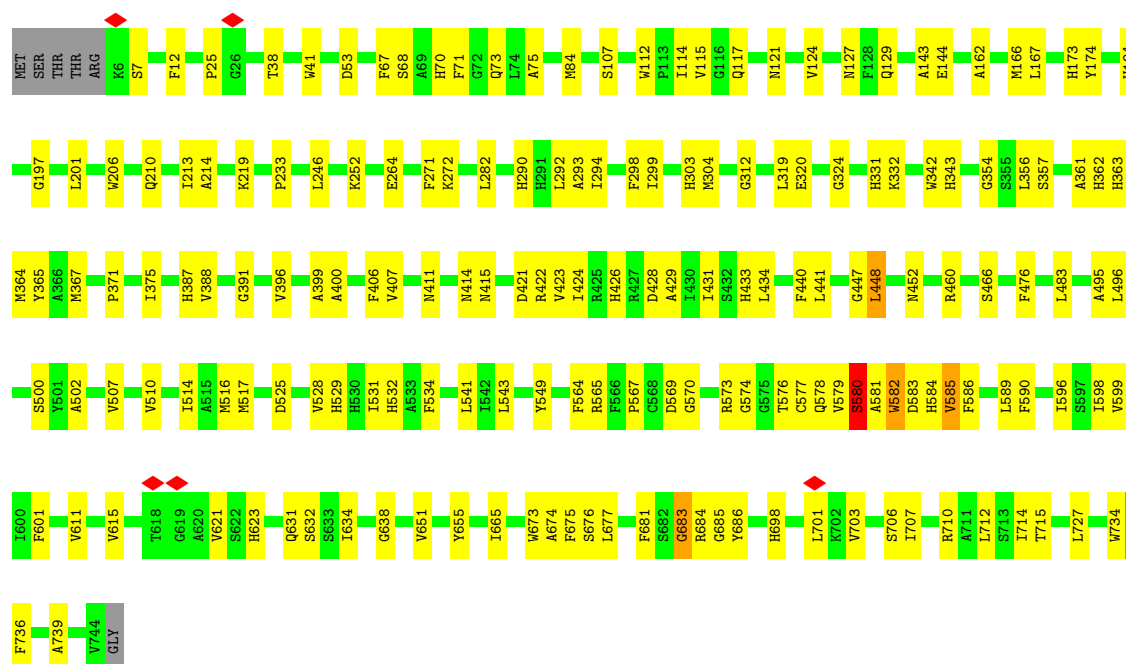
• Molecule 6: VCPI-1





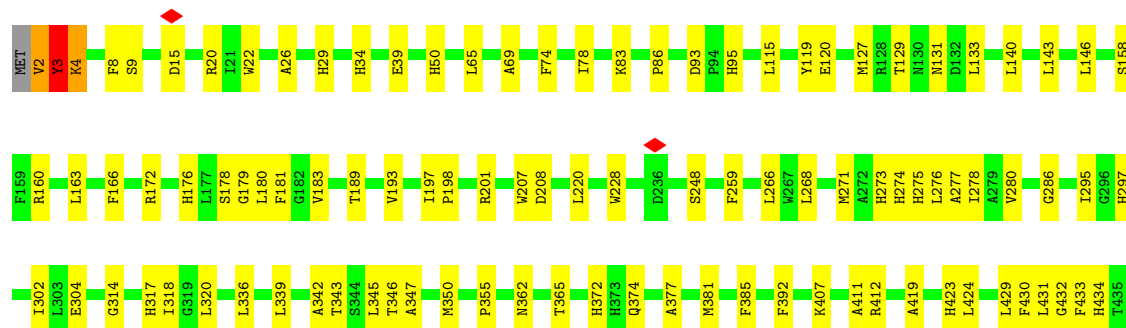
• Molecule 7: Photosystem I P700 chlorophyll a apoprotein A1

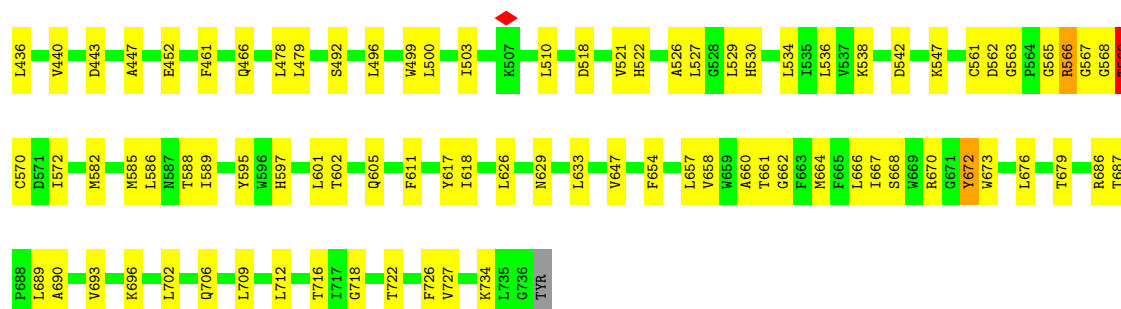
Chain a: 75% 23%



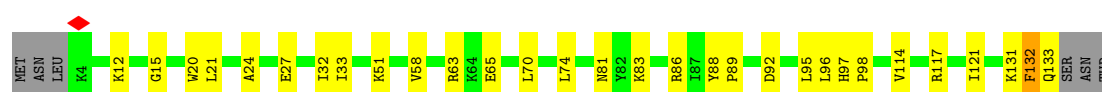
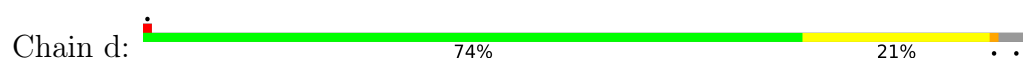
• Molecule 8: Photosystem I P700 chlorophyll a apoprotein A2

Chain b: 74% 24%

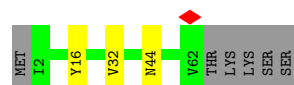
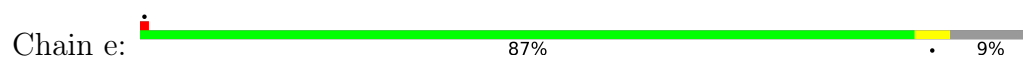




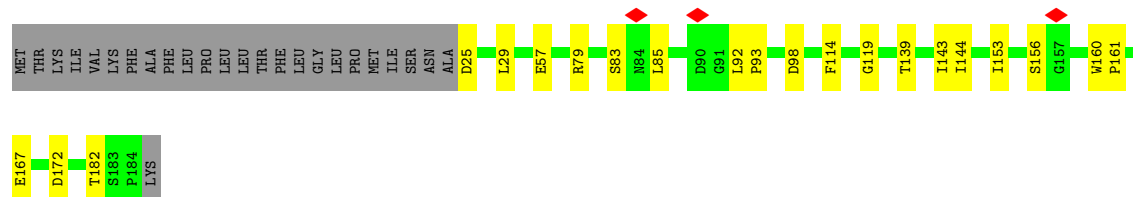
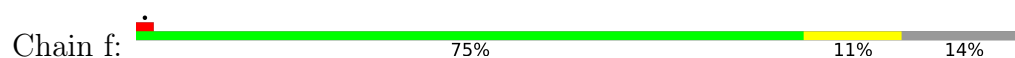
• Molecule 9: Photosystem I reaction center subunit II



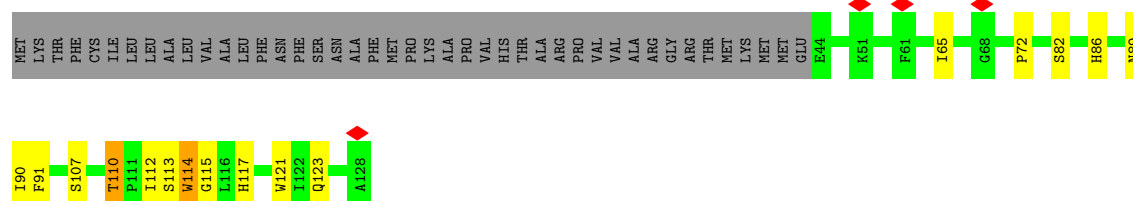
• Molecule 10: Photosystem I reaction center subunit IV



• Molecule 11: Photosystem I reaction center subunit III

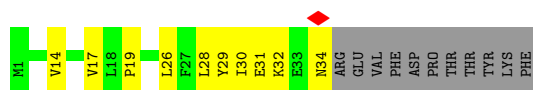


• Molecule 12: PsaR

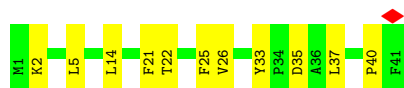


• Molecule 13: Photosystem I reaction center subunit VIII

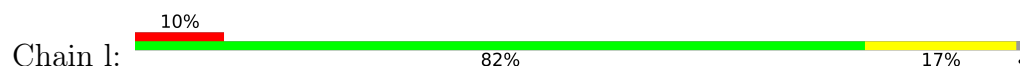




- Molecule 14: Photosystem I reaction center subunit IX



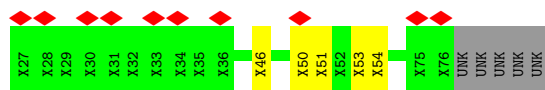
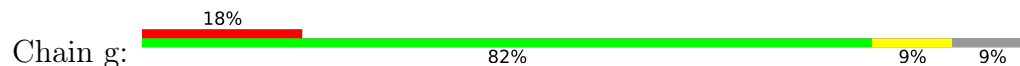
- Molecule 15: PSI subunit V



- Molecule 16: PsaM



- Molecule 17: PsaS



- Molecule 18: Photosystem I iron-sulfur center



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	19451	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	1.558	Depositor
Minimum map value	-0.396	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.025	Depositor
Recommended contour level	0.2	Depositor
Map size (Å)	563.2, 563.2, 563.2	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.1, 1.1, 1.1	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: CLA, LMG, SQD, DGD, A1L1G, SF4, BCR, LHG, PQN, A1L1F, XAT

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	5	0.14	0/1353	0.29	0/1823
2	9	0.35	0/1496	0.34	0/2032
3	8	0.47	1/1286 (0.1%)	0.44	3/1743 (0.2%)
4	4	0.17	0/1298	0.32	0/1761
4	7	0.19	0/1248	0.37	0/1700
5	6	0.18	0/1390	0.32	0/1883
6	1	0.14	0/1293	0.33	0/1759
7	a	0.30	3/6024 (0.0%)	0.35	5/8219 (0.1%)
8	b	0.27	0/6080	0.35	2/8302 (0.0%)
9	d	0.19	0/1040	0.36	0/1402
10	e	0.09	0/502	0.20	0/681
11	f	0.14	0/1297	0.31	0/1762
12	h	0.52	1/667 (0.1%)	0.52	0/915
13	i	0.15	0/278	0.33	0/378
14	j	0.16	0/351	0.36	0/478
15	l	0.14	0/1315	0.31	0/1796
16	m	0.09	0/210	0.29	0/288
18	c	0.13	0/606	0.34	0/822
All	All	0.26	5/27734 (0.0%)	0.35	10/37744 (0.0%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	a	580	SER	CA-C	-7.05	1.43	1.52
3	8	44	LEU	C-O	-6.18	1.15	1.23
12	h	114	TRP	C-O	-5.37	1.17	1.24
7	a	581	ALA	CA-C	-5.37	1.45	1.52
7	a	582	TRP	CA-C	-5.07	1.45	1.52

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	a	581	ALA	N-CA-C	-8.65	102.47	113.72
7	a	683	GLY	O-C-N	-8.45	116.29	123.73
8	b	568	GLY	N-CA-C	-7.49	100.73	110.69
3	8	39	LYS	N-CA-C	-6.09	105.68	113.23
7	a	448	LEU	N-CA-C	-6.05	104.24	111.69
7	a	584	HIS	N-CA-C	-5.89	106.44	113.97
8	b	672	TYR	N-CA-C	-5.63	106.25	113.23
3	8	41	LEU	CA-C-N	5.07	124.79	119.82
3	8	41	LEU	C-N-CA	5.07	124.79	119.82
7	a	585	VAL	N-CA-C	-5.03	105.51	112.50

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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	5	1317	0	1318	34	0
2	9	1466	0	1470	57	0
3	8	1258	0	1280	31	0
4	4	1268	0	1288	21	0
4	7	1220	0	1209	39	0
5	6	1352	0	1334	29	0
6	1	1262	0	1237	40	0
7	a	5827	0	5697	156	0
8	b	5865	0	5711	200	0
9	d	1014	0	1015	28	0
10	e	494	0	495	3	0
11	f	1266	0	1262	32	0
12	h	646	0	649	11	0
13	i	271	0	292	17	0
14	j	339	0	342	15	0
15	l	1283	0	1278	28	0
16	m	210	0	226	2	0
17	g	250	0	57	4	0
18	c	596	0	583	23	0
19	1	88	0	112	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	4	220	0	280	25	0
19	5	176	0	224	21	0
19	6	176	0	224	20	0
19	7	176	0	224	29	0
19	8	132	0	168	17	0
19	9	132	0	168	16	0
19	a	88	0	112	7	0
20	1	45	0	0	1	0
20	5	45	0	0	1	0
20	7	45	0	0	2	0
20	9	90	0	0	3	0
21	1	547	0	508	17	0
21	4	613	0	522	30	0
21	5	563	0	472	23	0
21	6	499	0	413	12	0
21	7	576	0	444	24	0
21	8	507	0	429	22	0
21	9	454	0	380	39	0
21	a	2644	0	2634	207	0
21	b	2468	0	2519	166	0
21	f	117	0	115	2	0
21	h	120	0	121	7	0
21	j	42	0	31	2	0
21	l	148	0	123	10	0
22	1	45	0	54	3	0
22	5	35	0	34	1	0
23	1	57	0	0	11	0
23	6	110	0	0	6	0
23	8	57	0	0	2	0
23	9	57	0	0	2	0
23	h	57	0	0	4	0
24	9	36	0	45	1	0
24	a	75	0	93	5	0
24	b	31	0	32	2	0
24	m	46	0	65	2	0
25	4	40	0	38	11	0
25	8	40	0	38	2	0
25	b	57	0	72	6	0
26	a	33	0	46	4	0
26	b	33	0	46	6	0
27	a	160	0	224	14	0
27	b	360	0	504	55	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
27	f	80	0	112	31	0
27	i	80	0	112	18	0
27	j	40	0	56	14	0
27	m	40	0	56	1	0
28	a	8	0	0	0	0
28	c	16	0	0	3	0
29	a	34	0	38	11	0
29	j	32	0	34	6	0
All	All	39574	0	38665	1158	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 15.

All (1158) 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)
7:a:698:HIS:NE2	21:a:856:CLA:HAC1	1.52	1.23
21:a:833:CLA:H61	21:l:202:CLA:H101	1.28	1.15
21:a:834:CLA:H151	26:b:842:PQN:H202	1.21	1.14
21:a:803:CLA:H151	21:b:810:CLA:HBC3	1.24	1.14
21:b:801:CLA:H142	21:b:839:CLA:H111	1.29	1.12
21:a:802:CLA:HED3	27:f:801:BCR:C40	1.80	1.11
4:4:193:ALA:HB1	25:4:318:DGD:HE62	1.13	1.10
8:b:452:GLU:HA	11:f:92:LEU:HD22	1.32	1.10
23:1:304:A1L1F:C2	21:a:844:CLA:H42	1.80	1.09
21:a:834:CLA:C14	27:b:848:BCR:H17C	1.85	1.06
4:4:193:ALA:HB1	25:4:318:DGD:C6E	1.85	1.05
21:a:834:CLA:H142	27:b:848:BCR:C17	1.86	1.05
21:a:802:CLA:HED3	27:f:801:BCR:H401	1.31	1.04
8:b:686:ARG:NH2	9:d:21:LEU:HD23	1.72	1.03
2:9:37:VAL:HG21	8:b:158:SER:O	1.59	1.03
7:a:681:PHE:HE1	8:b:667:ILE:HG13	1.20	1.02
7:a:681:PHE:CE1	8:b:667:ILE:HG13	1.95	1.00
23:1:304:A1L1F:C2	21:a:844:CLA:H11	1.91	0.99
25:4:318:DGD:O4E	25:4:318:DGD:O5E	1.61	0.98
21:b:810:CLA:HED2	27:b:853:BCR:H393	1.43	0.98
21:b:801:CLA:C14	21:b:839:CLA:H111	1.94	0.97
7:a:681:PHE:HE1	8:b:667:ILE:CG1	1.76	0.97
21:b:810:CLA:H202	15:l:90:LEU:HD22	1.47	0.96
21:a:834:CLA:H142	27:b:848:BCR:H17C	0.95	0.95
21:b:801:CLA:H143	21:b:839:CLA:H142	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:706:SER:HB3	11:f:139:THR:HG22	1.47	0.93
21:a:810:CLA:H102	27:j:102:BCR:H332	1.51	0.93
8:b:687:THR:HG21	21:b:801:CLA:CMA	2.00	0.92
21:9:316:CLA:HAB	21:b:810:CLA:H112	1.53	0.90
19:5:303:XAT:H12	21:5:308:CLA:HAB	1.53	0.89
21:a:841:CLA:H203	21:a:856:CLA:H2	1.55	0.89
21:a:810:CLA:H11	27:j:102:BCR:C12	2.02	0.88
2:9:41:GLU:CG	8:b:160:ARG:HH21	1.87	0.88
8:b:3:TYR:HD1	13:i:34:ASN:HD22	1.20	0.87
8:b:689:LEU:O	21:l:202:CLA:HBC2	1.72	0.87
21:b:810:CLA:HED2	27:b:853:BCR:C39	2.05	0.86
21:a:833:CLA:H61	21:l:202:CLA:C10	2.05	0.86
23:1:304:A1L1F:C10	21:a:844:CLA:C3	2.55	0.85
7:a:698:HIS:CE1	21:a:856:CLA:HAC1	2.12	0.85
7:a:698:HIS:CG	21:a:856:CLA:HBC1	2.11	0.84
21:b:840:CLA:H18	27:i:101:BCR:C21	2.07	0.84
8:b:547:LYS:HD3	11:f:182:THR:HA	1.60	0.84
21:a:833:CLA:C2	21:l:202:CLA:H93	2.07	0.84
8:b:3:TYR:CD1	13:i:34:ASN:HB2	2.12	0.83
23:1:304:A1L1F:C2	21:a:844:CLA:C4	2.56	0.83
21:a:803:CLA:H151	21:b:810:CLA:CBC	2.08	0.82
21:a:810:CLA:H11	27:j:102:BCR:H12C	1.60	0.82
23:1:304:A1L1F:C57	21:a:844:CLA:H11	2.10	0.82
21:b:839:CLA:H152	27:b:853:BCR:H17C	1.62	0.82
7:a:698:HIS:CD2	21:a:856:CLA:CBC	2.62	0.82
21:a:834:CLA:C15	26:b:842:PQN:H202	2.08	0.82
21:a:802:CLA:CED	27:f:801:BCR:H401	2.10	0.81
7:a:655:TYR:CE2	8:b:447:ALA:HB2	2.16	0.80
7:a:698:HIS:NE2	21:a:856:CLA:CAC	2.41	0.80
21:a:806:CLA:O1A	21:a:814:CLA:HBA1	1.81	0.80
8:b:3:TYR:HD1	13:i:34:ASN:ND2	1.80	0.80
11:f:114:PHE:CD1	27:f:801:BCR:H343	2.17	0.79
26:b:842:PQN:H272	27:i:102:BCR:H343	1.65	0.79
7:a:531:ILE:HD12	21:a:801:CLA:H172	1.63	0.79
8:b:689:LEU:O	21:l:202:CLA:CBC	2.30	0.78
7:a:681:PHE:CE1	8:b:667:ILE:CG1	2.62	0.78
7:a:703:VAL:O	21:a:856:CLA:HMD2	1.82	0.78
2:9:120:TRP:CH2	21:9:316:CLA:H43	2.18	0.78
21:b:825:CLA:HMA1	27:b:847:BCR:H17C	1.66	0.77
19:8:303:XAT:H12	21:8:312:CLA:HAB	1.67	0.77
21:a:810:CLA:H42	27:j:102:BCR:H10C	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1:304:A1L1F:C10	21:a:844:CLA:C2	2.63	0.76
2:9:41:GLU:HG2	8:b:160:ARG:HH21	1.50	0.76
19:4:303:XAT:H12	21:4:308:CLA:HAB	1.67	0.76
21:a:810:CLA:H42	27:j:102:BCR:C10	2.15	0.76
8:b:696:LYS:HD3	13:i:31:GLU:OE1	1.85	0.76
21:1:312:CLA:HHC	21:1:312:CLA:HBB1	1.69	0.75
21:b:839:CLA:H12	27:i:102:BCR:H351	1.69	0.74
7:a:698:HIS:CG	21:a:856:CLA:CBC	2.70	0.74
7:a:703:VAL:HG22	21:a:856:CLA:CMD	2.16	0.74
21:b:832:CLA:H142	27:f:804:BCR:HC8	1.70	0.74
21:a:802:CLA:H12	8:b:433:PHE:CD1	2.23	0.74
7:a:698:HIS:CD2	21:a:856:CLA:HAC1	2.23	0.73
1:5:164:PHE:HE1	21:f:802:CLA:H121	1.52	0.73
21:a:810:CLA:C10	27:j:102:BCR:H332	2.16	0.73
8:b:547:LYS:HG2	11:f:182:THR:HG22	1.70	0.73
13:i:26:LEU:HB3	27:i:102:BCR:H323	1.71	0.73
21:a:808:CLA:HMB2	27:j:102:BCR:HC8	1.71	0.73
21:a:802:CLA:HED3	27:f:801:BCR:H402	1.69	0.72
21:a:841:CLA:H18	21:a:856:CLA:H52	1.70	0.72
21:a:833:CLA:H11	15:l:21:ILE:HG22	1.72	0.71
7:a:574:GLY:C	8:b:670:ARG:NH1	2.49	0.71
8:b:686:ARG:NH2	9:d:21:LEU:CD2	2.53	0.71
2:9:41:GLU:HG2	8:b:160:ARG:NH2	2.05	0.71
11:f:167:GLU:HG3	11:f:172:ASP:HB3	1.73	0.70
21:b:834:CLA:H72	27:b:847:BCR:H391	1.72	0.70
7:a:706:SER:HB3	11:f:139:THR:CG2	2.20	0.70
6:1:43:ILE:O	6:1:70:ARG:NH2	2.25	0.69
8:b:689:LEU:HD12	27:b:853:BCR:HC41	1.75	0.69
14:j:22:THR:HA	14:j:25:PHE:CE1	2.28	0.69
21:a:802:CLA:H12	8:b:433:PHE:CE1	2.26	0.69
21:4:317:CLA:H2A	25:4:318:DGD:HE62	1.73	0.69
21:b:839:CLA:H12	27:i:102:BCR:H15C	1.73	0.69
21:a:802:CLA:H41	8:b:436:LEU:HD22	1.75	0.69
8:b:273:HIS:HD1	21:b:817:CLA:HAB	1.58	0.69
27:a:847:BCR:H362	27:a:848:BCR:H21C	1.73	0.69
8:b:2:VAL:N	13:i:32:LYS:O	2.26	0.69
7:a:363:HIS:ND1	21:a:819:CLA:OBD	2.26	0.69
8:b:686:ARG:HH21	9:d:21:LEU:HD23	1.55	0.69
7:a:698:HIS:CD2	21:a:856:CLA:HBC3	2.29	0.68
7:a:569:ASP:OD2	7:a:573:ARG:NH2	2.27	0.68
21:a:833:CLA:H11	15:l:21:ILE:CG2	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:b:806:CLA:H151	21:b:828:CLA:HBB2	1.74	0.68
23:1:304:A1L1F:C44	21:a:844:CLA:H42	2.23	0.68
21:a:803:CLA:H152	21:b:803:CLA:H202	1.76	0.68
26:b:842:PQN:H272	27:i:102:BCR:C34	2.23	0.67
11:f:114:PHE:CE1	27:f:801:BCR:H343	2.29	0.67
4:4:193:ALA:CB	25:4:318:DGD:HE62	2.07	0.67
8:b:689:LEU:HB3	27:b:853:BCR:HC31	1.76	0.67
21:4:317:CLA:HAA2	25:4:318:DGD:HE5	1.77	0.67
2:9:41:GLU:CB	8:b:160:ARG:HH21	2.08	0.66
7:a:698:HIS:CE1	21:a:856:CLA:CAC	2.78	0.66
2:9:120:TRP:HH2	21:9:316:CLA:H43	1.60	0.66
19:4:302:XAT:H14	21:4:310:CLA:H12	1.76	0.66
19:4:303:XAT:H193	21:4:308:CLA:H142	1.78	0.66
8:b:304:GLU:HG2	8:b:318:ILE:HG13	1.78	0.66
8:b:336:LEU:HD21	21:b:829:CLA:HAB	1.78	0.66
21:6:309:CLA:H172	24:b:849:LHG:H281	1.78	0.66
6:1:70:ARG:NH1	6:1:73:GLU:OE1	2.28	0.66
8:b:9:SER:HB2	25:b:851:DGD:HE62	1.78	0.66
8:b:295:ILE:HG13	21:b:820:CLA:HED1	1.77	0.66
6:1:194:GLN:HG3	6:1:199:ASN:HB3	1.77	0.65
7:a:112:TRP:HB3	19:a:853:XAT:H373	1.77	0.65
21:a:803:CLA:H192	21:b:810:CLA:HMC1	1.76	0.65
21:b:810:CLA:C20	15:l:90:LEU:HD22	2.25	0.65
19:6:303:XAT:H30	21:6:308:CLA:HAB	1.77	0.65
7:a:356:LEU:HD11	21:a:820:CLA:H71	1.79	0.65
5:6:236:ALA:HB1	5:6:247:VAL:HG21	1.77	0.65
21:a:841:CLA:C5	27:f:801:BCR:H17C	2.27	0.65
7:a:698:HIS:CD2	21:a:856:CLA:HHD	2.31	0.65
1:5:113:ARG:NH1	1:5:116:GLU:OE1	2.29	0.65
11:f:25:ASP:N	11:f:29:LEU:O	2.30	0.65
7:a:197:GLY:O	7:a:201:LEU:HB2	1.97	0.64
8:b:452:GLU:CA	11:f:92:LEU:HD22	2.18	0.64
21:b:810:CLA:H92	27:b:853:BCR:H291	1.77	0.64
21:b:813:CLA:H121	21:b:818:CLA:H72	1.79	0.64
21:b:823:CLA:HBB1	21:b:838:CLA:H151	1.79	0.64
2:9:41:GLU:HB3	8:b:160:ARG:HH21	1.62	0.64
8:b:547:LYS:CD	11:f:182:THR:HA	2.27	0.64
12:h:114:TRP:HA	12:h:117:HIS:NE2	2.11	0.64
1:5:120:GLY:O	1:5:124:MET:HG3	1.98	0.64
2:9:191:ALA:O	2:9:195:ASN:ND2	2.30	0.64
13:i:29:TYR:HA	13:i:32:LYS:HE2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:b:832:CLA:H18	27:f:804:BCR:H17C	1.80	0.64
19:4:301:XAT:H10	19:4:305:XAT:H363	1.80	0.64
23:1:304:A1L1F:C57	21:a:844:CLA:H42	2.25	0.64
8:b:115:LEU:HA	8:b:365:THR:HG22	1.80	0.64
19:4:304:XAT:H32	21:4:313:CLA:HAB	1.80	0.63
4:7:120:ALA:HB1	21:7:311:CLA:HMD1	1.79	0.63
14:j:21:PHE:HA	21:j:101:CLA:HBB2	1.80	0.63
14:j:26:VAL:HG11	27:j:102:BCR:H24C	1.81	0.63
4:7:50:ASP:OD1	4:7:51:GLY:N	2.32	0.63
7:a:362:HIS:HA	7:a:365:TYR:CE1	2.33	0.63
21:b:840:CLA:H13	27:i:101:BCR:H19C	1.81	0.63
7:a:298:PHE:HE1	21:a:822:CLA:HAB	1.64	0.63
4:7:136:VAL:HG22	21:7:312:CLA:HMA1	1.80	0.63
7:a:703:VAL:HG22	21:a:856:CLA:HMD2	1.80	0.63
5:6:246:SER:HB2	21:6:315:CLA:CAA	2.28	0.62
21:a:829:CLA:C17	27:j:102:BCR:HC7	2.28	0.62
21:a:833:CLA:C4	15:l:21:ILE:HG23	2.30	0.62
8:b:129:THR:HG22	8:b:131:ASN:H	1.63	0.62
9:d:117:ARG:NH2	18:c:6:LYS:HE2	2.13	0.62
21:8:305:CLA:CGA	25:8:315:DGD:HE5	2.30	0.62
7:a:114:ILE:HB	19:a:853:XAT:H372	1.81	0.62
21:a:841:CLA:H51	27:f:801:BCR:H17C	1.81	0.62
9:d:86:ARG:HB2	9:d:96:LEU:HD11	1.82	0.62
1:5:130:PHE:CE1	19:5:303:XAT:O24	2.52	0.62
19:7:303:XAT:H362	21:7:308:CLA:H51	1.81	0.62
7:a:429:ALA:O	7:a:433:HIS:ND1	2.31	0.62
7:a:298:PHE:CE1	21:a:822:CLA:HAB	2.35	0.62
19:5:303:XAT:H162	21:5:308:CLA:H2	1.82	0.62
7:a:589:LEU:HD21	21:a:831:CLA:HBC1	1.81	0.62
21:a:818:CLA:C3D	29:a:855:LMG:HC91	2.30	0.62
19:5:301:XAT:H373	22:5:317:SQD:H2	1.82	0.62
21:a:841:CLA:H2	21:b:832:CLA:H42	1.82	0.62
21:a:833:CLA:H42	15:l:21:ILE:HG23	1.82	0.61
23:h:202:A1L1F:C4	23:h:202:A1L1F:C12	2.78	0.61
7:a:121:ASN:HB3	7:a:129:GLN:HB3	1.82	0.61
8:b:15:ASP:HB3	8:b:20:ARG:HB2	1.82	0.61
9:d:12:LYS:HB2	9:d:51:LYS:HB3	1.82	0.61
6:1:186:ILE:HG13	6:1:187:THR:HG23	1.83	0.61
8:b:424:LEU:HD13	8:b:534:LEU:HA	1.81	0.61
21:a:833:CLA:C6	21:l:202:CLA:H101	2.19	0.61
21:a:841:CLA:C20	21:a:856:CLA:H2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:4:317:CLA:H2A	25:4:318:DGD:C6E	2.30	0.61
21:a:810:CLA:H102	27:j:102:BCR:C33	2.28	0.61
7:a:167:LEU:HD11	21:a:810:CLA:H193	1.83	0.61
7:a:698:HIS:CD2	21:a:856:CLA:CAC	2.83	0.61
8:b:660:ALA:HB3	21:b:803:CLA:HBB2	1.83	0.61
9:d:117:ARG:NE	18:c:6:LYS:HE2	2.16	0.61
1:5:225:ILE:HG22	21:5:315:CLA:HAB	1.82	0.61
7:a:70:HIS:ND1	21:a:814:CLA:OBD	2.31	0.61
9:d:88:TYR:HB2	9:d:92:ASP:HB2	1.81	0.61
1:5:190:ARG:NH1	1:5:191:GLU:O	2.34	0.60
21:b:839:CLA:C15	27:b:853:BCR:H17C	2.30	0.60
9:d:131:LYS:O	9:d:132:PHE:C	2.44	0.60
21:8:305:CLA:HAA2	25:8:315:DGD:HE5	1.82	0.60
11:f:79:ARG:NH1	14:j:35:ASP:O	2.33	0.60
2:9:182:ALA:HB3	2:9:190:GLU:HG2	1.82	0.60
21:b:830:CLA:HAB	21:b:838:CLA:HBB2	1.82	0.60
21:a:833:CLA:HBC2	21:a:840:CLA:HMC2	1.83	0.60
3:8:185:MET:HE2	21:8:308:CLA:HBB2	1.83	0.60
8:b:689:LEU:CD1	27:b:853:BCR:HC41	2.31	0.60
6:1:72:SER:O	6:1:76:HIS:ND1	2.28	0.60
4:4:170:MET:HE1	21:4:313:CLA:H43	1.84	0.60
21:a:802:CLA:HBA2	8:b:429:LEU:HD23	1.83	0.60
21:a:820:CLA:H92	21:a:830:CLA:H91	1.84	0.60
8:b:3:TYR:HD1	13:i:34:ASN:HB2	1.65	0.60
21:b:804:CLA:H18	13:i:14:VAL:HG22	1.84	0.60
27:b:846:BCR:H342	21:h:201:CLA:H172	1.84	0.60
7:a:53:ASP:OD2	7:a:343:HIS:NE2	2.35	0.59
7:a:162:ALA:O	7:a:166:MET:HG2	2.00	0.59
7:a:507:VAL:HG22	7:a:517:MET:HG3	1.85	0.59
8:b:412:ARG:NH2	21:b:830:CLA:O1D	2.35	0.59
15:l:38:ARG:O	15:l:46:ARG:NH2	2.35	0.59
2:9:120:TRP:CZ2	21:9:316:CLA:H43	2.38	0.59
24:9:307:LHG:H301	21:b:810:CLA:H141	1.85	0.59
19:8:302:XAT:H32	21:8:307:CLA:HAB	1.85	0.59
4:4:185:PHE:CZ	19:4:303:XAT:H30	2.37	0.59
2:9:185:PRO:HA	21:9:313:CLA:HBA2	1.85	0.59
8:b:452:GLU:HA	11:f:92:LEU:CD2	2.22	0.59
20:1:301:A1L1G:C18	21:1:306:CLA:HAC2	2.32	0.58
4:7:88:THR:HG21	19:7:304:XAT:H12	1.85	0.58
21:a:803:CLA:C19	21:b:810:CLA:HMC1	2.34	0.58
21:b:837:CLA:HBC3	27:f:804:BCR:H401	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:a:818:CLA:C1D	29:a:855:LMG:H291	2.34	0.58
21:a:802:CLA:CED	27:f:801:BCR:C40	2.70	0.58
21:a:803:CLA:H51	8:b:657:LEU:HD22	1.85	0.58
1:5:111:TRP:NE1	21:5:309:CLA:O1A	2.32	0.58
27:b:843:BCR:H23C	27:b:850:BCR:H323	1.86	0.58
8:b:74:PHE:O	8:b:78:ILE:HG12	2.04	0.58
12:h:121:TRP:CD1	21:h:201:CLA:HAA1	2.39	0.58
1:5:190:ARG:HH12	1:5:194:ASN:H	1.51	0.57
19:5:302:XAT:H14	21:5:310:CLA:H12	1.86	0.57
4:7:185:PHE:CD2	19:7:303:XAT:H12	2.40	0.57
7:a:107:SER:HB2	7:a:124:VAL:HG11	1.86	0.57
8:b:69:ALA:HB2	8:b:133:LEU:HB2	1.86	0.57
8:b:561:CYS:HB2	8:b:569:THR:O	2.04	0.57
7:a:292:LEU:HD21	21:a:818:CLA:CAB	2.34	0.57
7:a:517:MET:HE1	7:a:623:HIS:NE2	2.19	0.57
9:d:97:HIS:HB3	9:d:98:PRO:HD3	1.86	0.57
1:5:112:LEU:HD22	21:5:308:CLA:H12	1.86	0.57
8:b:178:SER:HB3	8:b:286:GLY:HA3	1.86	0.57
7:a:324:GLY:HA3	24:a:846:LHG:HC32	1.87	0.57
21:b:803:CLA:CGA	21:b:803:CLA:H3A	2.34	0.57
9:d:117:ARG:HH21	18:c:6:LYS:HE2	1.70	0.57
1:5:220:GLY:O	1:5:224:MET:HG3	2.04	0.57
5:6:248:PRO:HG2	21:6:315:CLA:HBC2	1.87	0.57
2:9:222:ASP:HB2	2:9:230:LEU:HD13	1.86	0.56
8:b:3:TYR:O	13:i:34:ASN:ND2	2.39	0.56
11:f:114:PHE:CE1	27:f:801:BCR:C34	2.87	0.56
10:e:32:VAL:HG11	18:c:35:LYS:HD3	1.87	0.56
1:5:155:VAL:HG21	21:5:310:CLA:HAA2	1.86	0.56
1:5:224:MET:O	1:5:227:ILE:HG22	2.04	0.56
7:a:7:SER:H	7:a:12:PHE:HE2	1.53	0.56
7:a:213:ILE:HG23	7:a:233:PRO:HB3	1.87	0.56
7:a:598:ILE:HG13	21:a:801:CLA:H192	1.86	0.56
21:a:826:CLA:HBA1	21:a:830:CLA:H193	1.86	0.56
8:b:39:GLU:HB3	8:b:163:LEU:HD11	1.87	0.56
21:b:821:CLA:HHB	21:b:822:CLA:H2	1.88	0.56
2:9:107:LEU:HD11	2:9:140:ILE:HD11	1.87	0.56
4:4:136:VAL:HG22	21:4:312:CLA:HMA1	1.87	0.56
29:a:855:LMG:H112	29:a:855:LMG:C9	2.35	0.56
7:a:114:ILE:HG13	7:a:115:VAL:HG13	1.86	0.56
7:a:706:SER:CB	11:f:139:THR:HG22	2.28	0.56
21:a:802:CLA:CGA	21:a:802:CLA:H3A	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:l:9:ARG:HH21	17:g:54:UNK:CB	2.19	0.56
21:a:841:CLA:H203	21:a:856:CLA:C2	2.34	0.56
8:b:562:ASP:HB3	8:b:569:THR:HG21	1.86	0.56
21:b:833:CLA:H43	27:f:801:BCR:HC32	1.86	0.56
8:b:582:MET:HG3	8:b:712:LEU:HD21	1.87	0.56
21:b:805:CLA:HBA1	21:b:813:CLA:HBA1	1.87	0.56
1:5:170:LEU:O	1:5:174:MET:HG3	2.05	0.56
15:l:54:HIS:HA	15:l:57:PHE:CE2	2.41	0.56
6:1:88:ILE:HG22	6:1:92:PHE:HE1	1.71	0.55
7:a:290:HIS:HB2	21:a:819:CLA:C1B	2.37	0.55
21:a:822:CLA:HBC3	21:a:828:CLA:H172	1.88	0.55
8:b:29:HIS:ND1	21:b:806:CLA:O1A	2.28	0.55
7:a:703:VAL:HG22	21:a:856:CLA:HMD3	1.89	0.55
2:9:41:GLU:HB3	8:b:160:ARG:NH2	2.20	0.55
1:5:175:HIS:HB2	1:5:179:LEU:HD23	1.89	0.55
2:9:85:GLY:O	2:9:89:MET:HG3	2.07	0.55
7:a:651:VAL:HG22	7:a:739:ALA:HB3	1.87	0.55
7:a:651:VAL:HG21	7:a:736:PHE:HA	1.88	0.55
21:a:818:CLA:CHD	29:a:855:LMG:H291	2.36	0.55
21:a:825:CLA:H12	27:a:849:BCR:H14C	1.88	0.55
3:8:60:PHE:HE1	21:8:305:CLA:HBC3	1.70	0.55
5:6:248:PRO:HD2	23:6:304:A1L1F:C56	2.36	0.55
23:1:304:A1L1F:C44	21:a:844:CLA:C4	2.83	0.55
27:i:102:BCR:H401	15:l:92:LEU:HB3	1.89	0.55
29:a:855:LMG:H112	29:a:855:LMG:O8	2.05	0.55
14:j:14:LEU:HD21	29:j:103:LMG:H141	1.89	0.55
3:8:75:VAL:HG23	21:8:307:CLA:HMA2	1.89	0.55
2:9:93:ILE:HG13	19:9:304:XAT:H8	1.89	0.55
27:b:852:BCR:H23C	14:j:33:TYR:CD2	2.42	0.55
18:c:15:THR:HG22	18:c:28:MET:HG3	1.89	0.55
2:9:117:TRP:O	2:9:120:TRP:CD1	2.60	0.55
8:b:565:GLY:O	8:b:567:GLY:N	2.40	0.55
6:1:115:ILE:O	6:1:119:GLN:NE2	2.40	0.54
7:a:734:TRP:NE1	21:a:829:CLA:O1A	2.36	0.54
8:b:561:CYS:SG	8:b:563:GLY:N	2.77	0.54
8:b:687:THR:HG21	21:b:801:CLA:HMA1	1.84	0.54
7:a:441:LEU:HB3	7:a:534:PHE:HB2	1.88	0.54
7:a:210:GLN:HA	7:a:214:ALA:HB3	1.89	0.54
8:b:633:LEU:HD22	8:b:726:PHE:HA	1.89	0.54
21:b:810:CLA:CED	27:b:853:BCR:C39	2.84	0.54
4:4:83:ILE:HD11	19:4:302:XAT:H362	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:197:GLY:HA3	21:a:814:CLA:HBB1	1.89	0.54
7:a:698:HIS:ND1	21:a:856:CLA:HBC1	2.22	0.54
21:b:823:CLA:HBB2	21:b:841:CLA:H52	1.90	0.54
9:d:63:ARG:NH2	9:d:65:GLU:OE1	2.41	0.54
9:d:117:ARG:CZ	18:c:6:LYS:HE2	2.37	0.54
20:5:304:A1L1G:C41	21:5:313:CLA:HMC1	2.37	0.54
2:9:149:ALA:O	2:9:153:PHE:HD1	1.90	0.54
6:1:61:ALA:HB1	6:1:65:THR:HB	1.90	0.54
8:b:521:VAL:HG21	8:b:595:TYR:HB2	1.89	0.54
13:i:30:ILE:HG21	27:i:102:BCR:H322	1.88	0.54
4:4:185:PHE:CE2	19:4:303:XAT:H30	2.42	0.54
5:6:154:PHE:HB2	19:6:303:XAT:H22	1.89	0.54
4:7:200:PRO:O	19:7:304:XAT:O3	2.26	0.54
6:1:146:LEU:HD13	21:a:844:CLA:H91	1.90	0.54
8:b:355:PRO:HG3	21:b:818:CLA:HBA1	1.90	0.54
9:d:117:ARG:HE	18:c:6:LYS:HE2	1.71	0.54
21:a:825:CLA:HMA3	21:a:844:CLA:HAB	1.90	0.54
4:7:46:PRO:HG2	4:7:49:LEU:HD12	1.90	0.53
7:a:388:VAL:HG12	7:a:596:ILE:HG23	1.89	0.53
4:4:121:LEU:HD23	4:4:124:ILE:HD12	1.90	0.53
8:b:22:TRP:CG	8:b:706:GLN:HE22	2.26	0.53
8:b:661:THR:O	8:b:664:MET:HB3	2.09	0.53
3:8:36:ALA:N	3:8:44:LEU:O	2.42	0.53
7:a:396:VAL:HG11	7:a:589:LEU:HG	1.91	0.53
8:b:317:HIS:HB3	8:b:320:LEU:HD12	1.89	0.53
8:b:689:LEU:CB	27:b:853:BCR:HC31	2.39	0.53
21:9:312:CLA:HBA1	21:9:312:CLA:HBD	1.89	0.53
8:b:189:THR:HG21	8:b:276:LEU:HB2	1.91	0.53
4:7:128:THR:HG23	20:7:302:A1L1G:C17	2.39	0.53
15:l:109:ASN:OD1	15:l:110:ALA:N	2.35	0.53
3:8:175:LYS:HB3	21:8:306:CLA:HMD2	1.91	0.53
21:a:831:CLA:H42	24:a:845:LHG:H251	1.90	0.53
19:5:303:XAT:C16	21:5:308:CLA:H2	2.39	0.53
21:4:317:CLA:O2D	25:4:318:DGD:HE61	2.09	0.53
21:a:809:CLA:CHC	21:a:810:CLA:HMD2	2.39	0.53
21:a:820:CLA:HAB	21:a:820:CLA:H8	1.90	0.53
4:4:81:CYS:HB3	4:4:178:GLY:HA3	1.91	0.53
8:b:140:LEU:HG	27:b:845:BCR:H382	1.90	0.53
21:b:829:CLA:H42	25:b:851:DGD:HB42	1.91	0.53
3:8:177:GLY:O	3:8:181:MET:HG3	2.09	0.52
7:a:681:PHE:HE1	8:b:667:ILE:CD1	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:b:443:ASP:OD1	8:b:617:TYR:HB2	2.08	0.52
5:6:184:TYR:CZ	5:6:186:GLY:HA3	2.44	0.52
7:a:219:LYS:HD3	7:a:246:LEU:HB3	1.90	0.52
21:a:802:CLA:O1D	27:f:801:BCR:H401	2.09	0.52
17:g:51:UNK:O	17:g:53:UNK:N	2.42	0.52
2:9:179:LEU:HD23	21:9:308:CLA:HMD3	1.90	0.52
8:b:709:LEU:HD11	25:b:851:DGD:HB41	1.90	0.52
5:6:232:ILE:HD13	23:6:301:A1L1F:C31	2.39	0.52
7:a:683:GLY:HA3	8:b:570:CYS:HB2	1.91	0.52
27:b:852:BCR:H23C	14:j:33:TYR:HD2	1.75	0.52
21:b:801:CLA:H101	21:b:801:CLA:HBB1	1.91	0.52
11:f:143:ILE:HG13	11:f:144:ILE:HG13	1.92	0.52
2:9:107:LEU:HG	2:9:136:ALA:HB1	1.91	0.52
3:8:172:LYS:O	3:8:176:ASN:ND2	2.39	0.52
21:1:311:CLA:C3	21:a:844:CLA:H93	2.40	0.52
21:a:835:CLA:O2D	21:a:835:CLA:H2A	2.09	0.52
8:b:718:GLY:O	8:b:722:THR:HG22	2.09	0.52
8:b:93:ASP:OD1	8:b:95:HIS:ND1	2.33	0.52
6:1:85:LEU:HB3	21:1:308:CLA:HMC2	1.92	0.52
4:4:193:ALA:O	25:4:318:DGD:O6E	2.28	0.52
4:7:121:LEU:HD13	21:7:316:CLA:HBC3	1.92	0.52
21:b:833:CLA:CED	14:j:37:LEU:HD13	2.39	0.52
18:c:11:CYS:SG	18:c:39:ILE:HG13	2.50	0.52
5:6:124:HIS:HB3	5:6:231:MET:HE2	1.92	0.51
5:6:131:ALA:HB2	19:6:303:XAT:H10	1.92	0.51
7:a:411:ASN:ND2	7:a:414:ASN:OD1	2.37	0.51
21:b:840:CLA:H18	27:i:101:BCR:C20	2.39	0.51
1:5:178:LYS:HD2	1:5:183:ASP:HB3	1.92	0.51
2:9:192:GLU:HB2	21:9:312:CLA:C1B	2.40	0.51
5:6:249:LEU:HB2	23:6:304:A1L1F:O55	2.10	0.51
1:5:155:VAL:HG22	1:5:159:PRO:HG2	1.92	0.51
21:b:823:CLA:HAB	21:b:830:CLA:HMD1	1.93	0.51
8:b:179:GLY:O	8:b:183:VAL:HB	2.10	0.51
8:b:689:LEU:HD22	21:l:202:CLA:C2D	2.40	0.51
23:h:202:A1L1F:O46	21:h:203:CLA:H52	2.11	0.51
6:1:77:GLY:O	6:1:81:MET:HG3	2.09	0.51
7:a:431:ILE:HG13	7:a:549:TYR:HE1	1.74	0.51
7:a:574:GLY:O	8:b:670:ARG:HD3	2.11	0.51
21:a:827:CLA:H93	21:a:840:CLA:H52	1.92	0.51
1:5:236:VAL:HG23	1:5:237:THR:HG23	1.92	0.51
8:b:342:ALA:O	8:b:346:THR:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:b:806:CLA:H52	25:b:851:DGD:HB72	1.93	0.51
21:b:832:CLA:CMC	27:b:852:BCR:H10C	2.40	0.51
2:9:31:GLY:O	3:8:68:GLN:OE1	2.29	0.51
9:d:33:ILE:HG22	9:d:58:VAL:HG22	1.92	0.51
15:l:38:ARG:NH1	15:l:49:GLU:OE1	2.40	0.51
21:5:313:CLA:H3A	21:5:313:CLA:CGA	2.41	0.51
4:7:45:ARG:NH1	4:7:49:LEU:O	2.42	0.51
8:b:26:ALA:HA	21:b:829:CLA:H43	1.93	0.51
8:b:693:VAL:HG11	21:b:801:CLA:HAB	1.92	0.51
7:a:422:ARG:O	7:a:426:HIS:ND1	2.41	0.51
8:b:208:ASP:OD1	8:b:208:ASP:N	2.44	0.51
21:9:316:CLA:HAB	21:b:810:CLA:C11	2.33	0.50
19:7:301:XAT:H10	21:7:315:CLA:HMD1	1.93	0.50
7:a:460:ARG:NH2	21:a:835:CLA:O1D	2.44	0.50
8:b:3:TYR:HD1	13:i:34:ASN:CB	2.24	0.50
8:b:722:THR:HG23	21:b:802:CLA:O1D	2.11	0.50
18:c:13:GLY:O	18:c:38:GLN:NE2	2.44	0.50
7:a:440:PHE:HE2	21:a:839:CLA:HAB	1.76	0.50
21:a:802:CLA:H41	8:b:436:LEU:CD2	2.41	0.50
21:b:839:CLA:H203	15:l:92:LEU:HD11	1.93	0.50
11:f:85:LEU:HD13	11:f:93:PRO:HB3	1.92	0.50
18:c:58:CYS:SG	18:c:63:LEU:HA	2.51	0.50
2:9:218:LEU:HG	21:9:314:CLA:HMA2	1.92	0.50
20:9:301:A1L1G:C44	21:9:315:CLA:HBC3	2.41	0.50
3:8:50:LEU:HD11	3:8:61:ASP:HB2	1.93	0.50
21:a:818:CLA:HHC	21:a:818:CLA:HBB1	1.93	0.50
29:a:855:LMG:C11	29:a:855:LMG:HC92	2.41	0.50
8:b:50:HIS:ND1	21:b:813:CLA:OBD	2.38	0.50
8:b:602:THR:HG21	8:b:611:PHE:HB2	1.93	0.50
11:f:160:TRP:CD1	11:f:161:PRO:HD3	2.46	0.50
19:4:303:XAT:C16	21:4:308:CLA:H2	2.42	0.50
15:l:68:LEU:O	15:l:77:SER:OG	2.24	0.50
21:a:818:CLA:O1A	29:a:855:LMG:O10	2.30	0.50
8:b:662:GLY:O	8:b:666:LEU:HG	2.10	0.50
18:c:17:CYS:SG	18:c:18:VAL:N	2.85	0.50
5:6:104:GLU:OE2	5:6:105:ARG:NH1	2.45	0.50
8:b:274:HIS:HB2	21:b:817:CLA:C1B	2.41	0.50
5:6:112:PRO:HB3	5:6:116:TRP:CD1	2.47	0.50
8:b:478:LEU:HG	8:b:479:LEU:HG	1.93	0.50
19:5:302:XAT:H193	21:5:311:CLA:HBA2	1.94	0.50
7:a:655:TYR:CD2	8:b:447:ALA:HA	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:712:LEU:N	26:a:843:PQN:O4	2.45	0.50
21:a:803:CLA:H192	21:b:810:CLA:CMC	2.42	0.50
1:5:130:PHE:HE1	19:5:303:XAT:O24	1.94	0.49
4:7:54:VAL:HG21	4:7:74:GLN:HE21	1.77	0.49
1:5:102:GLY:O	1:5:105:THR:OG1	2.29	0.49
2:9:162:LYS:NZ	21:9:312:CLA:O1A	2.40	0.49
21:9:316:CLA:CAB	21:b:810:CLA:H112	2.34	0.49
4:4:159:ASN:C	4:4:161:ALA:H	2.20	0.49
7:a:574:GLY:HA3	8:b:670:ARG:NH1	2.27	0.49
21:a:803:CLA:H51	8:b:657:LEU:CD2	2.42	0.49
21:h:201:CLA:HBA1	21:h:201:CLA:HBD	1.93	0.49
15:l:106:VAL:H	15:l:140:VAL:HG23	1.77	0.49
1:5:190:ARG:HH12	1:5:194:ASN:N	2.10	0.49
2:9:191:ALA:HB1	21:9:313:CLA:HAA1	1.93	0.49
3:8:60:PHE:CE1	21:8:305:CLA:HBC3	2.47	0.49
6:1:112:VAL:HB	6:1:117:TRP:NE1	2.27	0.49
29:a:855:LMG:H131	29:a:855:LMG:H292	1.94	0.49
21:b:811:CLA:H72	21:b:812:CLA:HBC3	1.93	0.49
17:g:46:UNK:O	17:g:50:UNK:N	2.45	0.49
2:9:117:TRP:O	2:9:120:TRP:NE1	2.45	0.49
4:7:185:PHE:O	4:7:189:VAL:HG22	2.13	0.49
7:a:565:ARG:HG2	7:a:715:THR:HG21	1.93	0.49
21:a:818:CLA:CHD	21:a:819:CLA:HBB2	2.43	0.49
8:b:492:SER:HA	8:b:496:LEU:HD12	1.94	0.49
4:7:91:TRP:CE3	19:7:303:XAT:H22	2.48	0.49
21:a:803:CLA:OBD	21:b:802:CLA:HMB3	2.13	0.49
21:b:832:CLA:HBB2	27:f:801:BCR:HC41	1.94	0.49
15:l:43:PRO:HD3	15:l:136:GLU:CD	2.38	0.49
18:c:17:CYS:HB3	28:c:102:SF4:S4	2.52	0.49
21:4:309:CLA:HAC1	21:4:316:CLA:HAB	1.95	0.49
8:b:407:LYS:HB3	8:b:411:ALA:HB3	1.95	0.49
21:b:837:CLA:HMC3	27:b:852:BCR:HC31	1.94	0.49
23:6:304:A1L1F:C33	21:6:313:CLA:HAB	2.43	0.49
7:a:423:VAL:HA	7:a:426:HIS:CE1	2.47	0.49
7:a:674:ALA:HB3	21:a:802:CLA:HBB2	1.94	0.49
8:b:565:GLY:O	8:b:566:ARG:C	2.55	0.49
21:b:812:CLA:H62	21:b:812:CLA:H41	1.62	0.49
26:b:842:PQN:H303	27:i:102:BCR:HC7	1.95	0.49
19:6:305:XAT:H401	19:6:305:XAT:H35	1.64	0.49
21:b:801:CLA:H142	21:b:839:CLA:H71	1.93	0.49
21:b:831:CLA:O2A	27:f:804:BCR:H353	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:b:832:CLA:C3C	27:b:852:BCR:C33	2.91	0.49
4:7:42:PHE:HE2	21:7:306:CLA:HAB	1.78	0.48
8:b:166:PHE:O	8:b:172:ARG:NH2	2.46	0.48
8:b:181:PHE:HE2	21:b:819:CLA:HAB	1.78	0.48
8:b:597:HIS:CE1	8:b:601:LEU:HD11	2.48	0.48
9:d:95:LEU:HD11	9:d:98:PRO:HD2	1.95	0.48
2:9:32:THR:H	2:9:33:PRO:HD2	1.78	0.48
19:6:302:XAT:H191	19:6:302:XAT:H11	1.65	0.48
4:7:124:ILE:HA	21:7:311:CLA:HBC3	1.95	0.48
8:b:277:ALA:HA	21:b:816:CLA:HMC2	1.95	0.48
19:5:305:XAT:C10	21:5:316:CLA:HBC3	2.44	0.48
7:a:712:LEU:HD21	26:a:843:PQN:H151	1.95	0.48
23:8:304:A1L1F:C36	21:8:311:CLA:H51	2.43	0.48
4:7:97:VAL:O	4:7:97:VAL:HG13	2.13	0.48
2:9:91:GLY:HA3	19:9:303:XAT:H173	1.94	0.48
3:8:36:ALA:HB3	3:8:45:LYS:HZ2	1.78	0.48
23:1:304:A1L1F:C2	21:a:844:CLA:C1	2.79	0.48
7:a:114:ILE:HG23	7:a:115:VAL:HG22	1.95	0.48
29:a:855:LMG:C9	29:a:855:LMG:C11	2.91	0.48
8:b:8:PHE:HB2	8:b:34:HIS:CG	2.49	0.48
8:b:412:ARG:HH21	21:b:830:CLA:CGD	2.27	0.48
21:b:824:CLA:H141	21:b:824:CLA:H193	1.95	0.48
12:h:72:PRO:HG3	23:h:202:A1L1F:C56	2.43	0.48
14:j:2:LYS:O	29:j:103:LMG:HC61	2.13	0.48
1:5:171:GLU:HG3	21:5:312:CLA:NB	2.28	0.48
21:9:311:CLA:H2A	21:9:311:CLA:O2D	2.13	0.48
21:7:316:CLA:HBA1	21:7:316:CLA:H3A	1.59	0.48
21:b:801:CLA:HAC2	27:b:848:BCR:H381	1.95	0.48
7:a:615:VAL:HG22	7:a:621:VAL:HG22	1.95	0.48
8:b:419:ALA:O	8:b:423:HIS:ND1	2.40	0.48
21:b:830:CLA:HAB	21:b:838:CLA:CBB	2.44	0.48
9:d:114:VAL:H	18:c:41:SER:HG	1.56	0.48
1:5:130:PHE:HD2	1:5:230:LEU:HD12	1.79	0.48
7:a:290:HIS:HB2	21:a:819:CLA:CHB	2.44	0.48
7:a:655:TYR:CZ	8:b:447:ALA:HB2	2.48	0.48
21:a:825:CLA:H71	21:a:840:CLA:H62	1.96	0.48
8:b:266:LEU:HD22	21:b:817:CLA:HBA1	1.95	0.48
21:b:823:CLA:H2A	21:b:823:CLA:HED3	1.95	0.48
21:b:832:CLA:HMC1	27:b:852:BCR:H10C	1.96	0.48
12:h:114:TRP:HA	12:h:117:HIS:CD2	2.49	0.48
19:8:303:XAT:H34	21:8:313:CLA:HBB1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:4:310:CLA:H141	21:4:310:CLA:H162	1.69	0.48
8:b:586:LEU:HD21	8:b:716:THR:HG23	1.96	0.48
8:b:687:THR:HG21	21:b:801:CLA:HMA2	1.89	0.48
4:4:184:ALA:HA	21:4:315:CLA:HBB1	1.95	0.47
5:6:153:ASP:OD1	5:6:155:THR:OG1	2.26	0.47
8:b:443:ASP:OD1	8:b:618:ILE:N	2.46	0.47
8:b:3:TYR:CD1	13:i:34:ASN:ND2	2.68	0.47
8:b:595:TYR:CZ	21:b:836:CLA:HBC3	2.49	0.47
8:b:670:ARG:C	8:b:672:TYR:H	2.22	0.47
19:4:305:XAT:H391	19:4:305:XAT:H31	1.62	0.47
5:6:118:GLN:O	5:6:121:GLU:HB2	2.14	0.47
4:7:81:CYS:O	4:7:85:MET:HG3	2.13	0.47
19:1:302:XAT:H35	19:1:302:XAT:H401	1.72	0.47
7:a:68:SER:OG	7:a:174:TYR:HB2	2.14	0.47
21:b:839:CLA:HAB	26:b:842:PQN:H172	1.96	0.47
14:j:5:LEU:HB3	29:j:103:LMG:HC72	1.96	0.47
19:9:305:XAT:H11	19:9:305:XAT:H191	1.60	0.47
19:8:302:XAT:H35	19:8:302:XAT:H401	1.76	0.47
5:6:131:ALA:CB	19:6:303:XAT:H10	2.44	0.47
6:1:88:ILE:HG22	6:1:92:PHE:CE1	2.49	0.47
21:a:852:CLA:CMB	8:b:436:LEU:HD13	2.44	0.47
12:h:89:ASN:O	12:h:91:PHE:N	2.46	0.47
3:8:171:VAL:HG13	3:8:175:LYS:HE3	1.97	0.47
7:a:292:LEU:HD12	21:a:816:CLA:HMC3	1.94	0.47
7:a:375:ILE:HG21	7:a:510:VAL:HB	1.96	0.47
7:a:476:PHE:HB3	21:a:838:CLA:H11	1.96	0.47
8:b:65:LEU:HD11	27:b:845:BCR:H281	1.95	0.47
19:5:305:XAT:H35	19:5:305:XAT:H401	1.80	0.47
3:8:44:LEU:HD22	4:7:141:GLN:NE2	2.29	0.47
5:6:118:GLN:HB3	5:6:197:VAL:HG11	1.96	0.47
5:6:194:ASP:OD1	5:6:194:ASP:N	2.48	0.47
7:a:400:ALA:HB2	7:a:585:VAL:HG11	1.96	0.47
7:a:570:GLY:O	7:a:576:THR:OG1	2.32	0.47
7:a:574:GLY:O	8:b:670:ARG:CD	2.62	0.47
21:a:832:CLA:HAB	21:a:840:CLA:HBB2	1.96	0.47
8:b:176:HIS:O	8:b:180:LEU:HB3	2.14	0.47
8:b:273:HIS:ND1	21:b:817:CLA:HAB	2.25	0.47
8:b:538:LYS:O	8:b:542:ASP:HB2	2.15	0.47
21:b:810:CLA:H202	15:l:90:LEU:CD2	2.32	0.47
2:9:49:MET:HA	2:9:52:LYS:HD3	1.97	0.47
2:9:187:LEU:HA	21:9:312:CLA:HMB1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:185:PHE:HE1	19:7:303:XAT:H162	1.79	0.47
7:a:354:GLY:HA2	7:a:391:GLY:HA2	1.97	0.47
21:a:818:CLA:HBA2	21:a:818:CLA:H3A	1.57	0.47
8:b:271:MET:O	8:b:275:HIS:ND1	2.47	0.47
8:b:297:HIS:HB3	8:b:302:ILE:HD11	1.97	0.47
21:b:821:CLA:CHB	21:b:822:CLA:H2	2.44	0.47
27:b:845:BCR:H311	27:b:845:BCR:HC8	1.96	0.47
2:9:88:ALA:HA	19:9:303:XAT:H8	1.95	0.47
2:9:201:LEU:HD21	19:9:304:XAT:H371	1.96	0.47
4:4:185:PHE:CZ	19:4:303:XAT:H28	2.50	0.47
6:1:84:VAL:O	6:1:88:ILE:HG12	2.14	0.47
7:a:144:GLU:HG2	7:a:206:TRP:HH2	1.80	0.47
2:9:172:LYS:HB3	2:9:172:LYS:HE2	1.45	0.47
6:1:73:GLU:HB2	21:1:306:CLA:C1B	2.45	0.47
21:9:314:CLA:CED	21:9:314:CLA:H2A	2.45	0.47
21:8:311:CLA:HBB1	21:8:311:CLA:HMB3	1.97	0.47
21:6:314:CLA:O1A	21:6:314:CLA:H2A	2.15	0.47
4:7:37:SER:HB2	4:7:45:ARG:HA	1.97	0.47
21:a:801:CLA:H61	21:a:803:CLA:O1D	2.15	0.47
21:a:820:CLA:H203	21:a:828:CLA:H3A	1.96	0.47
1:5:232:HIS:HE1	19:5:305:XAT:H14	1.80	0.46
3:8:73:LYS:HD3	3:8:145:ASP:HA	1.95	0.46
21:6:308:CLA:CGA	21:6:308:CLA:H3A	2.45	0.46
6:1:40:ASP:HB2	6:1:42:MET:HG3	1.98	0.46
7:a:577:CYS:HB2	8:b:670:ARG:O	2.15	0.46
8:b:585:MET:HE3	8:b:585:MET:HB3	1.83	0.46
1:5:96:VAL:HG12	21:5:308:CLA:OBD	2.15	0.46
3:8:110:ASN:HB3	3:8:113:LYS:HB2	1.96	0.46
5:6:94:TRP:CZ3	19:6:303:XAT:H383	2.50	0.46
21:1:311:CLA:H62	21:a:844:CLA:H93	1.96	0.46
21:a:803:CLA:C18	21:b:810:CLA:HMC1	2.44	0.46
8:b:127:MET:HE1	27:b:845:BCR:H282	1.97	0.46
21:b:825:CLA:HBA2	21:b:825:CLA:H3A	1.73	0.46
19:7:304:XAT:H191	21:7:314:CLA:HAB	1.97	0.46
19:7:305:XAT:H15	19:7:305:XAT:H201	1.69	0.46
6:1:42:MET:HE1	6:1:66:LEU:HD22	1.96	0.46
7:a:514:ILE:HD11	7:a:621:VAL:HG13	1.96	0.46
8:b:432:GLY:HA2	8:b:527:LEU:HD22	1.96	0.46
21:b:811:CLA:H51	21:b:812:CLA:H43	1.97	0.46
21:b:817:CLA:H41	21:b:834:CLA:HAA2	1.98	0.46
27:b:845:BCR:H24C	27:b:845:BCR:H371	1.70	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:l:168:TYR:O	15:l:172:LEU:HB2	2.16	0.46
3:8:83:CYS:HB3	3:8:177:GLY:HA3	1.97	0.46
19:7:303:XAT:H191	19:7:303:XAT:H11	1.70	0.46
7:a:677:LEU:HB2	21:a:802:CLA:HMC2	1.97	0.46
21:a:818:CLA:NC	29:a:855:LMG:H302	2.31	0.46
21:a:841:CLA:H52	27:f:801:BCR:H17C	1.95	0.46
3:8:82:HIS:HB3	3:8:181:MET:SD	2.56	0.46
19:6:305:XAT:H31	19:6:305:XAT:H391	1.69	0.46
8:b:687:THR:HG23	8:b:690:ALA:HB3	1.97	0.46
21:b:818:CLA:H3A	21:b:818:CLA:HBA2	1.37	0.46
3:8:141:THR:HA	3:8:147:PRO:HB3	1.97	0.46
7:a:38:THR:HB	7:a:710:ARG:HG3	1.97	0.46
29:a:855:LMG:H112	29:a:855:LMG:HC92	1.98	0.46
8:b:50:HIS:HE1	21:b:805:CLA:H171	1.81	0.46
8:b:385:PHE:HB3	8:b:536:LEU:HB3	1.97	0.46
21:b:827:CLA:H143	21:b:827:CLA:H161	1.78	0.46
8:b:689:LEU:HD22	21:l:202:CLA:HMD2	1.98	0.46
29:j:103:LMG:H292	29:j:103:LMG:H111	1.98	0.46
2:9:73:GLY:O	2:9:77:SER:OG	2.23	0.46
21:9:316:CLA:H91	21:9:316:CLA:H112	1.69	0.46
19:4:302:XAT:H30	21:4:310:CLA:H151	1.98	0.46
21:4:317:CLA:CGD	25:4:318:DGD:HE61	2.45	0.46
7:a:282:LEU:HD21	7:a:367:MET:HB3	1.98	0.46
7:a:574:GLY:CA	8:b:670:ARG:NH1	2.79	0.46
24:b:849:LHG:H101	21:h:201:CLA:H142	1.97	0.46
9:d:15:GLY:HA2	15:l:12:PRO:O	2.16	0.46
13:i:28:LEU:O	13:i:32:LYS:HG3	2.15	0.46
3:8:58:PHE:HZ	3:8:175:LYS:HZ1	1.63	0.46
19:6:303:XAT:H15	19:6:303:XAT:H201	1.65	0.46
19:6:303:XAT:H35	19:6:303:XAT:H401	1.83	0.46
4:7:120:ALA:O	4:7:124:ILE:HG13	2.16	0.46
21:a:801:CLA:CED	21:a:801:CLA:HAA2	2.46	0.46
8:b:143:LEU:HD23	8:b:146:LEU:HD12	1.97	0.46
8:b:339:LEU:O	8:b:343:THR:HG22	2.16	0.46
19:5:305:XAT:H15	19:5:305:XAT:H201	1.76	0.46
20:9:306:A1L1G:C31	21:9:310:CLA:HBD	2.46	0.46
19:6:302:XAT:H31	19:6:302:XAT:H391	1.72	0.46
6:1:105:PRO:C	6:1:107:LYS:H	2.24	0.46
6:1:137:LEU:HD12	15:l:25:ALA:HB1	1.97	0.46
8:b:392:PHE:CE2	27:b:847:BCR:HC42	2.51	0.46
21:b:817:CLA:H3A	21:b:817:CLA:HBA2	1.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:b:825:CLA:HAA2	21:b:826:CLA:OBD	2.16	0.46
20:9:301:A1L1G:O13	19:9:304:XAT:H28	2.16	0.45
19:7:301:XAT:H31	19:7:301:XAT:H391	1.79	0.45
19:7:303:XAT:H32	21:7:308:CLA:HAB	1.97	0.45
21:a:829:CLA:HBB1	21:a:829:CLA:HMB1	1.97	0.45
27:i:101:BCR:H351	27:i:101:BCR:H15C	1.85	0.45
27:a:847:BCR:H11C	27:a:847:BCR:H341	1.84	0.45
8:b:547:LYS:CG	11:f:182:THR:HG22	2.45	0.45
11:f:114:PHE:HE1	27:f:801:BCR:C9	2.30	0.45
11:f:119:GLY:HA3	11:f:160:TRP:CE2	2.51	0.45
12:h:65:ILE:O	12:h:123:GLN:NE2	2.49	0.45
1:5:143:TYR:OH	21:5:311:CLA:OBD	2.23	0.45
4:4:37:SER:HB3	4:4:45:ARG:HA	1.98	0.45
21:a:806:CLA:H141	21:a:806:CLA:H162	1.59	0.45
8:b:26:ALA:HB1	25:b:851:DGD:O1B	2.17	0.45
21:b:823:CLA:HBA1	27:b:846:BCR:H16C	1.98	0.45
9:d:83:LYS:HG2	9:d:98:PRO:HG2	1.97	0.45
18:c:3:HIS:HB2	18:c:48:CYS:SG	2.56	0.45
3:8:166:MET:O	3:8:170:GLU:HG3	2.16	0.45
21:1:306:CLA:H91	21:1:306:CLA:H112	1.69	0.45
7:a:114:ILE:O	7:a:117:GLN:HG2	2.15	0.45
21:a:803:CLA:H18	21:b:810:CLA:HMC1	1.99	0.45
21:a:827:CLA:H13	21:a:827:CLA:H172	1.77	0.45
8:b:372:HIS:HB2	21:b:827:CLA:C1B	2.45	0.45
8:b:433:PHE:HZ	27:f:801:BCR:H372	1.79	0.45
27:b:844:BCR:H351	27:b:844:BCR:H15C	1.78	0.45
3:8:93:TRP:CE2	3:8:111:PRO:HG2	2.51	0.45
19:8:301:XAT:H11	19:8:301:XAT:H191	1.84	0.45
21:4:311:CLA:H2A	21:4:311:CLA:O2D	2.17	0.45
4:7:160:PHE:HE2	19:7:304:XAT:H373	1.81	0.45
21:a:841:CLA:HBA2	21:b:832:CLA:H51	1.97	0.45
8:b:268:LEU:HD23	8:b:271:MET:HE3	1.98	0.45
11:f:153:ILE:O	11:f:156:SER:OG	2.31	0.45
14:j:26:VAL:CG1	27:j:102:BCR:H403	2.47	0.45
4:4:193:ALA:HB1	25:4:318:DGD:O5E	2.15	0.45
3:8:138:LEU:HB2	21:8:311:CLA:HMA1	1.99	0.45
5:6:132:PHE:O	5:6:136:ILE:HG12	2.17	0.45
19:6:302:XAT:H15	19:6:302:XAT:H201	1.71	0.45
4:7:78:ILE:HG12	4:7:175:LEU:HD21	1.99	0.45
19:7:304:XAT:H32	21:7:313:CLA:HAB	1.98	0.45
6:1:89:VAL:O	6:1:93:TRP:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:342:TRP:CD1	21:a:826:CLA:H192	2.51	0.45
7:a:665:ILE:HG23	21:a:809:CLA:H171	1.99	0.45
7:a:727:LEU:HD22	21:a:842:CLA:HMA1	1.99	0.45
21:a:806:CLA:H72	27:a:848:BCR:HC8	1.98	0.45
8:b:4:LYS:HB3	8:b:4:LYS:HE2	1.47	0.45
10:e:32:VAL:HG11	18:c:35:LYS:CD	2.46	0.45
21:h:203:CLA:HED3	21:h:203:CLA:H2A	1.97	0.45
27:j:102:BCR:H15C	27:j:102:BCR:H351	1.78	0.45
1:5:92:MET:HE3	1:5:113:ARG:HE	1.82	0.45
19:5:302:XAT:H35	19:5:302:XAT:H401	1.77	0.45
19:7:304:XAT:H171	21:7:315:CLA:HBB1	1.99	0.45
7:a:25:PRO:HB2	7:a:41:TRP:HH2	1.81	0.45
7:a:502:ALA:HB2	7:a:516:MET:HE2	1.97	0.45
7:a:686:TYR:OH	21:a:802:CLA:OBD	2.21	0.45
13:i:14:VAL:O	13:i:19:PRO:HD2	2.17	0.45
21:5:315:CLA:H11	21:4:311:CLA:CHB	2.47	0.45
2:9:80:ALA:O	2:9:84:ASN:ND2	2.49	0.45
2:9:93:ILE:CG1	19:9:304:XAT:H8	2.47	0.45
7:a:71:PHE:HD1	7:a:166:MET:HE3	1.82	0.45
7:a:312:GLY:HA2	21:a:823:CLA:HMD2	1.98	0.45
8:b:518:ASP:O	8:b:522:HIS:ND1	2.38	0.45
8:b:605:GLN:HE21	8:b:734:LYS:HB3	1.82	0.45
21:b:801:CLA:H143	21:b:839:CLA:C14	2.36	0.45
21:b:822:CLA:HHC	21:b:841:CLA:HED1	1.98	0.45
21:b:823:CLA:HHB	21:b:841:CLA:O1D	2.16	0.45
15:l:9:ARG:NH2	17:g:54:UNK:CB	2.79	0.45
1:5:116:GLU:HB2	21:5:308:CLA:C1B	2.46	0.45
2:9:37:VAL:HG11	8:b:158:SER:HA	1.97	0.45
21:b:828:CLA:H3A	21:b:828:CLA:HBA2	1.77	0.45
12:h:112:ILE:O	12:h:115:GLY:N	2.49	0.45
21:9:308:CLA:H92	21:9:308:CLA:H61	1.76	0.44
7:a:580:SER:HB2	7:a:582:TRP:H	1.82	0.44
21:a:831:CLA:H61	21:a:831:CLA:H92	1.70	0.44
21:a:839:CLA:H161	21:a:839:CLA:H141	1.68	0.44
8:b:201:ARG:HG2	8:b:248:SER:HB2	1.99	0.44
8:b:280:VAL:HG21	21:b:816:CLA:HAB	1.98	0.44
8:b:343:THR:HG23	8:b:377:ALA:HB2	1.99	0.44
9:d:121:ILE:HD13	18:c:8:TYR:CZ	2.52	0.44
11:f:160:TRP:CG	11:f:161:PRO:HD3	2.52	0.44
24:m:101:LHG:H291	24:m:101:LHG:H321	1.66	0.44
5:6:85:PHE:HB3	5:6:93:PRO:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:7:308:CLA:H91	21:7:308:CLA:H112	1.67	0.44
21:a:822:CLA:H12	21:a:825:CLA:HBA2	1.98	0.44
21:a:840:CLA:H152	21:a:840:CLA:H112	1.80	0.44
21:b:820:CLA:HBA2	21:b:820:CLA:H3A	1.33	0.44
1:5:124:MET:HE3	21:5:313:CLA:HMC2	1.98	0.44
19:4:303:XAT:H11	19:4:303:XAT:H191	1.74	0.44
4:7:85:MET:HE3	4:7:177:ASN:HB3	1.98	0.44
4:7:170:MET:HE2	21:7:313:CLA:H12	1.99	0.44
22:1:315:SQD:H311	22:1:315:SQD:H282	1.84	0.44
8:b:259:PHE:CZ	8:b:510:LEU:HD12	2.52	0.44
13:i:30:ILE:CG2	27:i:102:BCR:H322	2.48	0.44
19:5:301:XAT:H15	19:5:301:XAT:H201	1.80	0.44
2:9:126:THR:OG1	2:9:129:GLU:OE2	2.34	0.44
19:8:301:XAT:H382	21:8:312:CLA:HAC2	1.99	0.44
4:7:112:HIS:O	4:7:116:VAL:HG13	2.18	0.44
6:1:171:ARG:HA	6:1:174:MET:HE3	2.00	0.44
7:a:447:GLY:HA3	21:a:835:CLA:HAB	1.99	0.44
8:b:526:ALA:O	8:b:530:HIS:ND1	2.37	0.44
12:h:72:PRO:CG	23:h:202:A1L1F:C56	2.96	0.44
19:5:301:XAT:H11	19:5:301:XAT:H191	1.86	0.44
21:4:308:CLA:H192	21:4:308:CLA:H161	1.76	0.44
19:1:303:XAT:H183	21:1:308:CLA:C2B	2.47	0.44
7:a:304:MET:HG3	21:a:823:CLA:C3C	2.47	0.44
7:a:466:SER:HG	7:a:631:GLN:HE22	1.64	0.44
8:b:228:TRP:HZ3	27:b:850:BCR:H363	1.82	0.44
8:b:518:ASP:OD2	8:b:595:TYR:OH	2.23	0.44
8:b:654:PHE:O	8:b:658:VAL:HG23	2.17	0.44
21:b:804:CLA:H141	21:b:804:CLA:H162	1.67	0.44
15:l:116:VAL:HG11	15:l:128:LEU:C	2.43	0.44
3:8:72:LEU:HD13	21:8:307:CLA:HED1	1.99	0.44
21:8:308:CLA:HBA1	21:8:308:CLA:H11	1.78	0.44
4:4:170:MET:CE	21:4:313:CLA:H12	2.47	0.44
19:4:302:XAT:H401	19:4:302:XAT:H35	1.76	0.44
19:4:303:XAT:H15	19:4:303:XAT:H201	1.82	0.44
4:7:185:PHE:CE1	19:7:303:XAT:H162	2.53	0.44
7:a:73:GLN:HG2	21:a:806:CLA:H3A	2.00	0.44
7:a:532:HIS:CE1	7:a:599:VAL:HA	2.53	0.44
21:a:804:CLA:H41	21:a:841:CLA:HMC1	1.98	0.44
21:a:807:CLA:H92	21:a:807:CLA:H61	1.69	0.44
12:h:112:ILE:O	12:h:113:SER:C	2.60	0.44
21:j:101:CLA:O1D	21:j:101:CLA:H2A	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:5:303:XAT:H383	21:5:310:CLA:C2B	2.48	0.44
2:9:144:HIS:CD2	21:9:314:CLA:HBC3	2.53	0.44
19:8:303:XAT:H201	19:8:303:XAT:H15	1.72	0.44
7:a:407:VAL:HG11	7:a:564:PHE:N	2.32	0.44
8:b:302:ILE:HD13	21:b:822:CLA:HMD2	1.99	0.44
21:b:824:CLA:H62	21:b:824:CLA:H41	1.78	0.44
27:b:843:BCR:H11C	27:b:843:BCR:H341	1.74	0.44
11:f:79:ARG:O	11:f:83:SER:HB2	2.17	0.44
12:h:107:SER:O	12:h:110:THR:OG1	2.32	0.44
4:4:59:PHE:HE1	21:4:306:CLA:HBC3	1.83	0.44
21:4:309:CLA:HED2	21:4:309:CLA:HBD	1.83	0.44
4:7:77:GLU:HB2	21:7:308:CLA:CHB	2.48	0.44
6:1:152:VAL:HG11	6:1:159:TRP:CD1	2.53	0.44
7:a:127:ASN:ND2	11:f:57:GLU:OE2	2.51	0.44
7:a:367:MET:HG2	7:a:500:SER:HB2	1.99	0.44
21:a:829:CLA:H91	21:a:831:CLA:H192	2.00	0.44
21:b:812:CLA:H3A	21:b:812:CLA:HBA2	1.61	0.44
21:b:827:CLA:H61	21:b:827:CLA:H102	1.85	0.44
9:d:81:ASN:H	9:d:81:ASN:ND2	2.16	0.44
1:5:158:GLN:HB3	1:5:159:PRO:HD3	1.99	0.44
2:9:207:VAL:HG21	21:9:308:CLA:H191	1.99	0.44
3:8:47:PRO:HG2	3:8:50:LEU:HG	2.00	0.44
19:7:304:XAT:H401	19:7:304:XAT:H35	1.74	0.44
7:a:578:GLN:HA	7:a:583:ASP:OD2	2.18	0.44
7:a:701:LEU:HD12	21:a:841:CLA:HMA2	2.00	0.44
21:a:826:CLA:HMB3	21:a:826:CLA:HBB1	1.99	0.44
8:b:172:ARG:HD2	21:b:824:CLA:OBD	2.18	0.44
8:b:565:GLY:C	8:b:567:GLY:N	2.74	0.44
21:b:810:CLA:HMB3	21:b:810:CLA:HBB1	2.00	0.44
21:b:836:CLA:H12	21:b:837:CLA:O1A	2.18	0.44
2:9:120:TRP:HH2	21:9:316:CLA:C4	2.28	0.43
5:6:121:GLU:OE2	21:6:308:CLA:C1B	2.65	0.43
19:7:305:XAT:H11	19:7:305:XAT:H191	1.83	0.43
7:a:415:ASN:O	7:a:421:ASP:HB2	2.18	0.43
21:a:829:CLA:H101	27:j:102:BCR:H341	1.99	0.43
21:a:841:CLA:H51	27:f:801:BCR:C17	2.48	0.43
8:b:83:LYS:HE3	8:b:83:LYS:HB3	1.85	0.43
2:9:120:TRP:CD1	2:9:121:VAL:HG13	2.53	0.43
19:9:303:XAT:H15	19:9:303:XAT:H201	1.71	0.43
21:9:314:CLA:H2A	21:9:314:CLA:O2D	2.18	0.43
23:8:304:A1L1F:C5	16:m:23:ARG:HD3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:4:309:CLA:H3A	21:4:309:CLA:HBA1	1.77	0.43
21:4:310:CLA:C1A	21:4:310:CLA:CGA	2.96	0.43
4:7:36:LYS:HB2	4:7:45:ARG:H	1.83	0.43
19:7:301:XAT:H201	19:7:301:XAT:H15	1.82	0.43
6:1:141:ARG:HD3	6:1:149:TRP:HB3	1.99	0.43
21:a:820:CLA:CAD	21:a:830:CLA:H41	2.48	0.43
21:a:820:CLA:H3A	21:a:820:CLA:HBA2	1.48	0.43
8:b:647:VAL:HG21	21:b:808:CLA:HAC1	2.00	0.43
21:b:839:CLA:C1	27:i:102:BCR:H351	2.44	0.43
27:i:102:BCR:H351	27:i:102:BCR:H15C	1.74	0.43
18:c:59:PRO:HD2	28:c:102:SF4:S2	2.58	0.43
21:9:308:CLA:H93	21:9:308:CLA:H111	1.70	0.43
19:8:302:XAT:H191	19:8:302:XAT:H11	1.71	0.43
21:4:306:CLA:CHA	21:4:306:CLA:HBA1	2.48	0.43
21:a:806:CLA:H161	21:a:806:CLA:H202	1.70	0.43
21:a:809:CLA:HBA2	21:a:809:CLA:H3A	1.67	0.43
21:a:822:CLA:OBD	21:a:824:CLA:HMD3	2.19	0.43
8:b:526:ALA:HB2	21:b:837:CLA:HMA1	2.00	0.43
21:b:837:CLA:H102	21:b:837:CLA:H62	1.77	0.43
21:4:310:CLA:H112	21:4:310:CLA:H142	1.78	0.43
5:6:242:PHE:HZ	19:6:305:XAT:H183	1.83	0.43
7:a:84:MET:SD	21:a:829:CLA:HED1	2.58	0.43
7:a:565:ARG:HD2	24:a:845:LHG:HC61	2.00	0.43
21:a:813:CLA:H62	21:a:813:CLA:H41	1.85	0.43
27:a:849:BCR:H24C	27:a:849:BCR:H371	1.86	0.43
21:b:813:CLA:H143	21:b:824:CLA:H51	1.99	0.43
21:b:833:CLA:H61	21:b:833:CLA:H41	1.63	0.43
21:b:838:CLA:H13	21:b:838:CLA:H101	1.79	0.43
9:d:20:TRP:HB2	9:d:24:ALA:HB3	1.99	0.43
19:8:302:XAT:H15	19:8:302:XAT:H201	1.73	0.43
5:6:124:HIS:CB	5:6:231:MET:HE2	2.47	0.43
23:6:301:A1L1F:C42	21:6:315:CLA:O1D	2.67	0.43
7:a:75:ALA:HB2	7:a:166:MET:HB2	2.01	0.43
7:a:567:PRO:HB3	7:a:714:ILE:HB	2.00	0.43
27:a:847:BCR:H15C	27:a:847:BCR:H351	1.84	0.43
27:a:850:BCR:H361	27:a:850:BCR:H20C	1.80	0.43
21:a:852:CLA:H93	21:a:852:CLA:H112	1.70	0.43
8:b:424:LEU:HG	21:b:838:CLA:CBB	2.48	0.43
21:b:835:CLA:H62	21:b:835:CLA:H41	1.86	0.43
5:6:189:TRP:CZ3	19:6:305:XAT:H363	2.53	0.43
27:a:849:BCR:H15C	27:a:849:BCR:H351	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:a:850:BCR:H15C	27:a:850:BCR:H351	1.77	0.43
21:b:801:CLA:H143	21:b:839:CLA:H111	1.92	0.43
21:b:833:CLA:HED1	14:j:37:LEU:HD13	2.00	0.43
21:b:836:CLA:H51	21:b:836:CLA:H11	1.73	0.43
27:f:804:BCR:H11C	27:f:804:BCR:H341	1.73	0.43
23:9:302:A1L1F:C42	21:9:311:CLA:O1A	2.66	0.43
19:7:303:XAT:H31	19:7:303:XAT:H391	1.73	0.43
6:1:95:PRO:HD2	21:1:308:CLA:HMD3	1.99	0.43
6:1:144:ASP:OD2	6:1:148:THR:OG1	2.23	0.43
6:1:171:ARG:HA	6:1:174:MET:CE	2.49	0.43
21:1:306:CLA:H93	21:1:306:CLA:H61	1.70	0.43
21:1:311:CLA:C3	21:a:844:CLA:C9	2.97	0.43
21:a:807:CLA:H43	24:a:845:LHG:H252	2.00	0.43
8:b:172:ARG:HB2	21:b:813:CLA:HBC2	2.00	0.43
19:5:303:XAT:H31	19:5:303:XAT:H391	1.94	0.43
19:4:301:XAT:H31	19:4:301:XAT:H391	1.83	0.43
19:4:302:XAT:H11	19:4:302:XAT:H191	1.89	0.43
19:7:303:XAT:H362	21:7:308:CLA:H2	2.01	0.43
7:a:361:ALA:HB2	7:a:387:HIS:HB2	2.01	0.43
7:a:483:LEU:HD23	7:a:483:LEU:HA	1.87	0.43
21:a:827:CLA:HBA2	21:a:827:CLA:H3A	1.79	0.43
21:a:852:CLA:HMB1	8:b:436:LEU:HD13	2.00	0.43
8:b:274:HIS:HB2	21:b:817:CLA:CHB	2.49	0.43
8:b:350:MET:HE2	8:b:350:MET:HB3	1.89	0.43
8:b:689:LEU:HD13	27:b:853:BCR:HC31	2.00	0.43
21:b:816:CLA:CHD	21:b:817:CLA:HBB2	2.49	0.43
10:e:16:TYR:CD2	10:e:44:ASN:HA	2.54	0.43
11:f:114:PHE:HE1	27:f:801:BCR:C34	2.30	0.43
19:9:303:XAT:H7	21:9:309:CLA:HAB	2.01	0.43
19:7:301:XAT:H401	19:7:301:XAT:H35	1.71	0.43
21:1:312:CLA:H42	22:1:315:SQD:H122	2.01	0.43
21:a:833:CLA:O1A	15:l:22:THR:HG22	2.19	0.43
8:b:440:VAL:HG12	21:b:833:CLA:HAC1	2.01	0.43
8:b:689:LEU:HB2	27:b:853:BCR:C2	2.48	0.43
9:d:70:LEU:O	9:d:74:LEU:HG	2.19	0.43
11:f:114:PHE:HD1	27:f:801:BCR:H343	1.76	0.43
18:c:25:VAL:HG21	18:c:48:CYS:HA	1.99	0.43
2:9:198:VAL:HG12	19:9:304:XAT:H34	2.01	0.43
19:8:301:XAT:H35	19:8:301:XAT:H401	1.78	0.43
19:8:303:XAT:C34	21:8:313:CLA:HBB1	2.49	0.43
19:4:301:XAT:H15	19:4:301:XAT:H201	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:4:304:XAT:H11	19:4:304:XAT:H191	1.90	0.43
19:7:303:XAT:C36	21:7:308:CLA:H2	2.49	0.43
6:1:128:GLU:HG3	19:1:302:XAT:H372	2.01	0.43
7:a:194:HIS:HE1	21:a:826:CLA:H72	1.83	0.43
7:a:357:SER:HB2	21:a:830:CLA:HMC2	2.01	0.43
7:a:684:ARG:HH21	8:b:567:GLY:HA3	1.83	0.43
8:b:140:LEU:HD23	8:b:143:LEU:HD12	2.01	0.43
21:b:801:CLA:CBC	27:b:848:BCR:C38	2.97	0.43
21:b:810:CLA:CED	27:b:853:BCR:H392	2.48	0.43
27:b:847:BCR:H15C	27:b:847:BCR:H351	1.85	0.43
21:9:316:CLA:HMC2	13:i:17:VAL:HG21	2.01	0.42
19:4:305:XAT:H35	19:4:305:XAT:H401	1.77	0.42
4:7:71:SER:HB3	4:7:142:MET:CE	2.49	0.42
4:7:142:MET:C	4:7:144:GLU:H	2.26	0.42
19:7:304:XAT:H30	21:7:313:CLA:H71	2.01	0.42
21:7:308:CLA:H142	21:7:308:CLA:H111	1.77	0.42
7:a:517:MET:HE2	7:a:611:VAL:HA	2.00	0.42
21:a:823:CLA:CHD	19:a:854:XAT:H183	2.49	0.42
21:a:841:CLA:HMD1	27:f:801:BCR:H383	2.01	0.42
8:b:569:THR:HG22	8:b:572:ILE:HD12	2.01	0.42
7:a:364:MET:HE1	21:a:830:CLA:CAD	2.49	0.42
21:a:834:CLA:H202	21:a:834:CLA:H162	1.79	0.42
8:b:597:HIS:CE1	8:b:727:VAL:HG23	2.54	0.42
14:j:14:LEU:CD2	29:j:103:LMG:H141	2.49	0.42
15:l:53:THR:HG22	21:l:201:CLA:C1B	2.49	0.42
2:9:91:GLY:HA3	19:9:303:XAT:O4	2.19	0.42
2:9:222:ASP:OD1	2:9:227:GLY:HA2	2.19	0.42
4:4:183:LEU:HD11	21:4:308:CLA:HAC1	2.00	0.42
19:4:304:XAT:H31	19:4:304:XAT:H391	1.92	0.42
4:7:81:CYS:SG	4:7:175:LEU:HD23	2.59	0.42
7:a:143:ALA:HB2	7:a:371:PRO:HD2	2.01	0.42
21:a:833:CLA:H43	15:l:21:ILE:HG23	2.00	0.42
21:a:841:CLA:H141	21:a:856:CLA:O2A	2.20	0.42
8:b:529:LEU:HD23	8:b:588:THR:HG21	2.00	0.42
21:b:832:CLA:C3C	27:b:852:BCR:H332	2.49	0.42
27:b:845:BCR:H351	27:b:845:BCR:H15C	1.78	0.42
27:i:102:BCR:H24C	15:l:96:LEU:HG	2.01	0.42
1:5:98:PHE:HE1	21:5:306:CLA:HBC3	1.84	0.42
19:5:301:XAT:H383	21:5:308:CLA:HBC1	2.01	0.42
19:5:303:XAT:H191	19:5:303:XAT:H11	1.65	0.42
3:8:47:PRO:HG3	3:8:61:ASP:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8:63:MET:HE2	21:b:812:CLA:H52	2.00	0.42
6:1:168:ASN:HA	6:1:171:ARG:HD2	2.01	0.42
7:a:252:LYS:NZ	7:a:264:GLU:OE1	2.41	0.42
21:a:816:CLA:C4B	19:a:854:XAT:H242	2.50	0.42
21:a:844:CLA:C1C	24:a:846:LHG:HC31	2.48	0.42
19:a:853:XAT:H31	19:a:853:XAT:H391	1.92	0.42
8:b:207:TRP:HE1	21:b:814:CLA:H11	1.84	0.42
8:b:220:LEU:HD21	27:b:843:BCR:H391	2.01	0.42
11:f:85:LEU:HD23	11:f:85:LEU:HA	1.93	0.42
18:c:54:CYS:SG	18:c:55:GLU:N	2.91	0.42
2:9:138:ALA:O	2:9:142:ILE:HG12	2.19	0.42
3:8:184:ILE:HG21	19:8:302:XAT:H12	2.01	0.42
19:7:303:XAT:H35	19:7:303:XAT:H401	1.76	0.42
6:1:133:LYS:HA	6:1:133:LYS:HD2	1.82	0.42
8:b:689:LEU:CD1	27:b:853:BCR:C4	2.97	0.42
8:b:702:LEU:HD22	8:b:706:GLN:NE2	2.35	0.42
21:b:808:CLA:H143	21:b:808:CLA:H161	1.83	0.42
9:d:32:ILE:HG21	9:d:70:LEU:HD23	2.00	0.42
9:d:88:TYR:HB3	9:d:89:PRO:HD2	2.01	0.42
1:5:137:ARG:HD2	1:5:144:SER:HA	2.00	0.42
1:5:149:VAL:HG22	19:5:305:XAT:H182	2.02	0.42
19:9:305:XAT:H31	19:9:305:XAT:H391	1.83	0.42
19:6:306:XAT:H11	19:6:306:XAT:H191	1.89	0.42
4:7:87:ALA:HB1	19:7:303:XAT:H161	2.01	0.42
7:a:399:ALA:HB1	7:a:543:LEU:HB3	2.02	0.42
7:a:698:HIS:HD2	21:a:856:CLA:HHD	1.83	0.42
21:a:807:CLA:H161	21:a:807:CLA:H192	1.82	0.42
21:a:819:CLA:HBA2	21:a:819:CLA:H3A	1.53	0.42
21:b:804:CLA:H2	21:b:804:CLA:H61	1.62	0.42
21:b:840:CLA:H61	21:b:840:CLA:H92	1.73	0.42
27:b:853:BCR:H352	21:l:202:CLA:HAB	2.01	0.42
11:f:114:PHE:CE1	27:f:801:BCR:C9	3.02	0.42
21:4:307:CLA:HBD	21:4:314:CLA:OBD	2.20	0.42
7:a:525:ASP:HA	7:a:528:VAL:HG12	2.01	0.42
21:a:807:CLA:H161	21:a:807:CLA:H102	2.00	0.42
27:a:847:BCR:H361	27:a:847:BCR:H20C	1.80	0.42
8:b:345:LEU:CD1	21:b:826:CLA:HAA1	2.49	0.42
21:b:816:CLA:CBB	27:b:850:BCR:H14C	2.50	0.42
21:b:832:CLA:H141	27:f:804:BCR:H10C	2.02	0.42
1:5:145:GLU:HB2	1:5:154:GLN:OE1	2.20	0.42
21:9:316:CLA:H111	21:9:316:CLA:H142	1.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:174:GLU:HB2	21:7:313:CLA:C1B	2.50	0.42
21:a:826:CLA:H202	21:a:826:CLA:H162	1.79	0.42
21:a:842:CLA:H12	26:a:843:PQN:H301	2.02	0.42
8:b:461:PHE:CZ	21:f:803:CLA:HBB1	2.54	0.42
21:b:807:CLA:H93	21:b:807:CLA:H61	1.71	0.42
29:j:103:LMG:H122	29:j:103:LMG:H151	1.56	0.42
2:9:217:ILE:HB	21:9:314:CLA:H3A	2.02	0.42
2:9:217:ILE:HG21	21:9:314:CLA:HHB	2.01	0.42
19:9:303:XAT:H35	19:9:303:XAT:H401	1.85	0.42
3:8:172:LYS:HD3	21:8:313:CLA:HAA2	2.01	0.42
19:4:303:XAT:H163	21:4:308:CLA:H2	2.02	0.42
6:1:71:GLU:HG2	6:1:142:PRO:O	2.20	0.42
6:1:82:LEU:HD11	21:1:311:CLA:HBC1	2.01	0.42
7:a:342:TRP:HB3	21:a:806:CLA:HAC1	2.02	0.42
21:a:801:CLA:HED2	21:a:801:CLA:HBD	1.48	0.42
21:a:803:CLA:O1A	21:a:803:CLA:H3A	2.19	0.42
21:a:828:CLA:H122	21:a:828:CLA:H162	1.66	0.42
8:b:466:GLN:NE2	21:b:836:CLA:OBD	2.34	0.42
21:b:806:CLA:H161	21:b:806:CLA:H192	1.72	0.42
27:b:846:BCR:H24C	27:b:846:BCR:H371	1.87	0.42
27:i:102:BCR:H11C	27:i:102:BCR:H341	1.84	0.42
2:9:173:ASP:O	2:9:174:GLU:C	2.63	0.42
21:9:314:CLA:H51	21:9:314:CLA:C1C	2.50	0.42
21:8:307:CLA:H122	21:8:307:CLA:H161	1.87	0.42
19:6:302:XAT:H35	19:6:302:XAT:H401	1.74	0.42
7:a:673:TRP:O	7:a:676:SER:OG	2.32	0.42
21:a:835:CLA:H141	21:a:835:CLA:H161	1.84	0.42
8:b:278:ILE:HD13	8:b:278:ILE:HA	1.93	0.42
2:9:133:ILE:HD13	21:9:316:CLA:O1D	2.20	0.41
21:9:311:CLA:H3A	21:9:311:CLA:HBA1	1.78	0.41
19:6:306:XAT:H401	19:6:306:XAT:H35	1.71	0.41
20:7:302:A1L1G:O9	21:7:311:CLA:O1A	2.37	0.41
21:1:306:CLA:H202	21:1:306:CLA:H162	1.69	0.41
7:a:67:PHE:HE2	7:a:173:HIS:CG	2.38	0.41
8:b:197:ILE:HB	8:b:198:PRO:HD3	2.02	0.41
21:b:810:CLA:H2	21:b:810:CLA:H61	1.88	0.41
21:b:828:CLA:H61	21:b:828:CLA:H41	1.75	0.41
27:b:853:BCR:H15C	27:b:853:BCR:H351	1.82	0.41
14:j:14:LEU:HD23	14:j:14:LEU:HA	1.84	0.41
24:m:101:LHG:H272	24:m:101:LHG:H302	1.86	0.41
19:9:305:XAT:H173	19:9:305:XAT:H3	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:7:301:XAT:H11	19:7:301:XAT:H191	1.91	0.41
7:a:271:PHE:HE2	7:a:495:ALA:HB2	1.84	0.41
8:b:193:VAL:O	8:b:198:PRO:HD3	2.20	0.41
27:b:844:BCR:H341	27:b:844:BCR:H11C	1.76	0.41
27:b:852:BCR:C21	14:j:40:PRO:HD3	2.51	0.41
9:d:121:ILE:CD1	18:c:8:TYR:CE1	3.04	0.41
21:9:314:CLA:H41	21:9:314:CLA:H61	1.84	0.41
4:4:85:MET:HE3	4:4:177:ASN:HB3	2.01	0.41
19:4:302:XAT:H31	19:4:302:XAT:H391	1.91	0.41
6:1:58:ALA:HB1	6:1:66:LEU:HD21	2.01	0.41
7:a:194:HIS:ND1	21:a:826:CLA:OBD	2.48	0.41
7:a:299:ILE:O	7:a:303:HIS:ND1	2.53	0.41
21:a:805:CLA:H12	21:a:805:CLA:H52	1.77	0.41
21:a:841:CLA:HED3	21:a:841:CLA:H2A	2.01	0.41
26:a:843:PQN:H211	26:a:843:PQN:H252	1.82	0.41
21:a:852:CLA:H122	21:a:852:CLA:H162	1.61	0.41
21:b:814:CLA:CHA	21:b:814:CLA:HBA1	2.49	0.41
21:b:814:CLA:H2	21:b:814:CLA:H61	1.77	0.41
21:b:837:CLA:CMC	27:b:852:BCR:HC31	2.50	0.41
18:c:32:ASP:OD1	18:c:32:ASP:N	2.53	0.41
5:6:115:LYS:HE2	5:6:188:PHE:CE1	2.55	0.41
5:6:135:VAL:HG13	19:6:303:XAT:H163	2.02	0.41
6:1:147:GLY:HA2	6:1:149:TRP:CZ3	2.55	0.41
7:a:293:ALA:HB1	21:a:818:CLA:HBC2	2.03	0.41
7:a:440:PHE:CE2	21:a:839:CLA:HAB	2.55	0.41
21:a:840:CLA:H72	27:a:850:BCR:H373	2.01	0.41
8:b:626:LEU:HD22	21:b:802:CLA:HMD3	2.01	0.41
5:6:237:PHE:CE1	5:6:250:LEU:HD11	2.55	0.41
4:7:39:ALA:HB2	4:7:57:VAL:HG23	2.03	0.41
7:a:601:PHE:CZ	21:a:801:CLA:HED3	2.55	0.41
27:a:848:BCR:H15C	27:a:848:BCR:H351	1.78	0.41
19:a:853:XAT:H11	19:a:853:XAT:H191	1.91	0.41
8:b:381:MET:HE1	27:b:847:BCR:H352	2.01	0.41
27:i:101:BCR:H20C	27:i:101:BCR:H361	1.87	0.41
27:j:102:BCR:H24C	27:j:102:BCR:H371	1.85	0.41
2:9:83:TRP:O	2:9:87:HIS:ND1	2.51	0.41
19:4:301:XAT:H392	21:4:317:CLA:HMB3	2.03	0.41
23:6:304:A1L1F:C33	21:6:313:CLA:HHC	2.51	0.41
6:1:131:GLN:O	6:1:135:LYS:HG3	2.21	0.41
7:a:452:ASN:HD22	7:a:634:ILE:HB	1.85	0.41
7:a:684:ARG:O	7:a:685:GLY:C	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:b:676:LEU:O	8:b:679:THR:OG1	2.33	0.41
12:h:82:SER:O	12:h:86:HIS:ND1	2.27	0.41
19:5:301:XAT:H35	19:5:301:XAT:H401	1.66	0.41
4:7:79:LYS:HE3	4:7:79:LYS:HB2	1.79	0.41
4:7:194:LEU:HD23	4:7:194:LEU:HA	1.90	0.41
21:7:307:CLA:C3D	21:7:314:CLA:HMA3	2.51	0.41
21:1:306:CLA:H3A	21:1:306:CLA:O2A	2.21	0.41
7:a:272:LYS:HG2	7:a:496:LEU:HD12	2.02	0.41
7:a:406:PHE:HE2	7:a:424:ILE:HD11	1.86	0.41
8:b:181:PHE:CE2	21:b:819:CLA:HAB	2.56	0.41
8:b:500:LEU:HA	8:b:503:ILE:HG22	2.02	0.41
21:b:806:CLA:H161	21:b:806:CLA:H102	2.01	0.41
27:b:843:BCR:H20C	27:b:843:BCR:H361	1.92	0.41
2:9:204:VAL:HG22	21:9:308:CLA:H203	2.01	0.41
3:8:190:GLN:O	3:8:194:THR:OG1	2.39	0.41
19:6:303:XAT:H11	19:6:303:XAT:H191	1.93	0.41
21:7:307:CLA:CAD	21:7:314:CLA:HMA3	2.51	0.41
7:a:290:HIS:O	7:a:294:ILE:HG12	2.20	0.41
7:a:356:LEU:HB2	21:a:828:CLA:H41	2.02	0.41
7:a:574:GLY:C	8:b:670:ARG:HH11	2.28	0.41
21:a:806:CLA:H72	27:a:848:BCR:C8	2.50	0.41
27:a:848:BCR:H11C	27:a:848:BCR:H341	1.86	0.41
8:b:347:ALA:HB3	8:b:374:GLN:HE21	1.84	0.41
8:b:430:PHE:O	8:b:434:HIS:ND1	2.41	0.41
8:b:709:LEU:CD1	25:b:851:DGD:HB41	2.51	0.41
27:b:843:BCR:H15C	27:b:843:BCR:H351	1.73	0.41
27:b:847:BCR:H361	27:b:847:BCR:H20C	1.86	0.41
27:f:804:BCR:H371	27:f:804:BCR:H24C	1.83	0.41
21:h:201:CLA:H162	21:h:201:CLA:H141	1.78	0.41
19:8:302:XAT:H31	19:8:302:XAT:H391	1.88	0.41
19:4:301:XAT:C10	19:4:305:XAT:H363	2.49	0.41
5:6:121:GLU:OE2	21:6:308:CLA:C2B	2.68	0.41
21:6:309:CLA:H152	21:6:309:CLA:H112	1.84	0.41
4:7:160:PHE:CE2	19:7:304:XAT:H373	2.56	0.41
6:1:54:PRO:HD2	19:1:303:XAT:H242	2.02	0.41
6:1:87:TRP:CG	6:1:180:LEU:HD13	2.56	0.41
22:1:315:SQD:H161	22:1:315:SQD:H132	1.72	0.41
7:a:434:LEU:HG	7:a:541:LEU:HB2	2.03	0.41
7:a:586:PHE:CE1	7:a:590:PHE:HE2	2.39	0.41
7:a:632:SER:O	7:a:638:GLY:HA3	2.21	0.41
21:a:820:CLA:H122	21:a:820:CLA:H161	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:a:841:CLA:C5	27:f:801:BCR:C17	2.97	0.41
8:b:120:GLU:OE2	8:b:362:ASN:ND2	2.39	0.41
8:b:346:THR:HG21	21:b:828:CLA:HHD	2.03	0.41
21:b:801:CLA:H12	21:b:801:CLA:H52	1.85	0.41
21:b:824:CLA:H92	21:b:824:CLA:H61	1.72	0.41
21:b:827:CLA:H13	21:b:829:CLA:H141	2.02	0.41
21:b:836:CLA:HBB1	21:b:836:CLA:HMB1	2.02	0.41
3:8:77:ALA:HB2	3:8:147:PRO:HB2	2.02	0.41
19:8:303:XAT:H383	21:8:314:CLA:C3B	2.51	0.41
23:1:304:A1L1F:C10	21:a:844:CLA:C4	2.98	0.41
21:a:818:CLA:OBD	21:a:837:CLA:HED2	2.21	0.41
8:b:314:GLY:HA3	8:b:412:ARG:HD2	2.02	0.41
8:b:431:LEU:HD11	21:b:837:CLA:HMB1	2.03	0.41
8:b:499:TRP:CD1	21:b:834:CLA:HED2	2.56	0.41
8:b:629:ASN:HA	8:b:734:LYS:HE2	2.02	0.41
21:b:804:CLA:HAA2	16:m:28:LEU:HB3	2.02	0.41
2:9:185:PRO:HA	21:9:313:CLA:CBA	2.51	0.40
23:9:302:A1L1F:C28	21:9:310:CLA:HMC1	2.51	0.40
19:8:302:XAT:H403	21:8:307:CLA:H202	2.02	0.40
19:a:854:XAT:H11	19:a:854:XAT:H191	1.91	0.40
8:b:86:PRO:HB3	8:b:119:TYR:CD2	2.56	0.40
8:b:433:PHE:CZ	27:f:801:BCR:H372	2.55	0.40
8:b:585:MET:O	8:b:589:ILE:HG12	2.20	0.40
27:m:102:BCR:H20C	27:m:102:BCR:H361	1.85	0.40
5:6:137:VAL:HB	5:6:138:PRO:HD3	2.03	0.40
19:6:305:XAT:H15	19:6:305:XAT:H201	1.87	0.40
21:1:305:CLA:H93	21:1:305:CLA:H112	1.84	0.40
21:a:839:CLA:H143	21:a:839:CLA:H111	1.90	0.40
8:b:342:ALA:HB2	21:b:824:CLA:H43	2.02	0.40
21:b:826:CLA:HMB2	21:b:834:CLA:HBA1	2.03	0.40
15:l:109:ASN:CG	15:l:110:ALA:H	2.26	0.40
18:c:64:SER:HB2	28:c:102:SF4:S3	2.62	0.40
1:5:98:PHE:CD2	21:5:306:CLA:HMD2	2.56	0.40
2:9:91:GLY:CA	19:9:303:XAT:H173	2.51	0.40
2:9:179:LEU:HD23	2:9:179:LEU:HA	1.97	0.40
2:9:201:LEU:HD13	21:9:308:CLA:HBC1	2.03	0.40
19:8:302:XAT:H8	21:8:309:CLA:HBB1	2.04	0.40
7:a:707:ILE:HD11	11:f:143:ILE:HG23	2.03	0.40
21:a:826:CLA:HMD2	21:a:826:CLA:H143	2.02	0.40
21:a:831:CLA:H93	21:a:842:CLA:HED3	2.01	0.40
8:b:668:SER:OG	8:b:673:TRP:NE1	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:b:803:CLA:HBC2	21:b:803:CLA:HHD	2.03	0.40
21:b:808:CLA:C4A	21:b:808:CLA:HBA2	2.50	0.40
21:b:810:CLA:H141	21:b:810:CLA:H162	1.75	0.40
21:b:821:CLA:H12	21:b:822:CLA:H52	2.03	0.40
11:f:98:ASP:N	11:f:98:ASP:OD1	2.54	0.40
11:f:114:PHE:HB2	27:f:801:BCR:H321	2.03	0.40
21:5:309:CLA:CBB	21:5:316:CLA:HAB	2.51	0.40
3:8:90:PHE:CE1	19:8:303:XAT:H30	2.57	0.40
4:7:59:PHE:HE1	21:7:306:CLA:HBC3	1.85	0.40
6:1:48:PRO:HG3	21:1:305:CLA:C4B	2.52	0.40
6:1:113:PRO:O	6:1:114:LEU:HB3	2.22	0.40
7:a:319:LEU:O	7:a:331:HIS:HB2	2.21	0.40
8:b:345:LEU:HD23	21:b:818:CLA:H52	2.04	0.40
9:d:27:GLU:O	9:d:89:PRO:HD3	2.21	0.40
19:9:305:XAT:H15	19:9:305:XAT:H201	1.81	0.40
4:4:54:VAL:HG11	4:4:171:GLN:HB3	2.04	0.40
19:7:303:XAT:H201	19:7:303:XAT:H15	1.78	0.40
6:1:43:ILE:HG21	6:1:163:GLN:HB2	2.04	0.40
6:1:186:ILE:HG13	6:1:187:THR:N	2.37	0.40
7:a:320:GLU:HG2	7:a:332:LYS:HG3	2.04	0.40
7:a:529:HIS:CG	21:a:839:CLA:HED2	2.56	0.40
7:a:675:PHE:HZ	21:a:842:CLA:HBC2	1.86	0.40
21:a:827:CLA:H193	21:a:827:CLA:H161	1.94	0.40
21:a:835:CLA:C3	27:b:853:BCR:H363	2.52	0.40
9:d:114:VAL:HG21	18:c:43:PRO:HB3	2.03	0.40
15:l:4:PHE:HB3	15:l:20:PRO:HG3	2.03	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	5	167/244 (68%)	158 (95%)	9 (5%)	0	100	100
2	9	199/232 (86%)	182 (92%)	16 (8%)	1 (0%)	25	54
3	8	162/200 (81%)	157 (97%)	5 (3%)	0	100	100
4	4	166/202 (82%)	149 (90%)	16 (10%)	1 (1%)	22	50
4	7	164/202 (81%)	144 (88%)	20 (12%)	0	100	100
5	6	178/259 (69%)	158 (89%)	20 (11%)	0	100	100
6	1	160/208 (77%)	149 (93%)	11 (7%)	0	100	100
7	a	737/745 (99%)	713 (97%)	23 (3%)	1 (0%)	48	78
8	b	733/737 (100%)	697 (95%)	33 (4%)	3 (0%)	30	60
9	d	128/136 (94%)	112 (88%)	15 (12%)	1 (1%)	16	44
10	e	59/67 (88%)	54 (92%)	5 (8%)	0	100	100
11	f	158/185 (85%)	151 (96%)	7 (4%)	0	100	100
12	h	83/128 (65%)	76 (92%)	6 (7%)	1 (1%)	11	35
13	i	32/45 (71%)	30 (94%)	2 (6%)	0	100	100
14	j	39/41 (95%)	39 (100%)	0	0	100	100
15	l	169/172 (98%)	154 (91%)	13 (8%)	2 (1%)	11	35
16	m	28/30 (93%)	27 (96%)	1 (4%)	0	100	100
18	c	78/81 (96%)	74 (95%)	4 (5%)	0	100	100
All	All	3440/3914 (88%)	3224 (94%)	206 (6%)	10 (0%)	38	66

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	9	32	THR
15	l	120	VAL
8	b	566	ARG
7	a	580	SER
8	b	569	THR
8	b	3	TYR
15	l	131	ILE
4	4	146	SER
9	d	132	PHE
12	h	90	ILE

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	5	133/182 (73%)	133 (100%)	0	100	100
2	9	141/167 (84%)	139 (99%)	2 (1%)	62	77
3	8	132/160 (82%)	131 (99%)	1 (1%)	79	87
4	4	133/159 (84%)	133 (100%)	0	100	100
4	7	122/159 (77%)	121 (99%)	1 (1%)	79	87
5	6	135/201 (67%)	134 (99%)	1 (1%)	81	88
6	1	128/165 (78%)	128 (100%)	0	100	100
7	a	607/613 (99%)	603 (99%)	4 (1%)	81	88
8	b	599/602 (100%)	595 (99%)	4 (1%)	81	88
9	d	107/113 (95%)	106 (99%)	1 (1%)	75	86
10	e	56/62 (90%)	56 (100%)	0	100	100
11	f	138/162 (85%)	138 (100%)	0	100	100
12	h	71/107 (66%)	70 (99%)	1 (1%)	62	77
13	i	32/43 (74%)	32 (100%)	0	100	100
14	j	36/36 (100%)	36 (100%)	0	100	100
15	l	130/141 (92%)	130 (100%)	0	100	100
16	m	21/24 (88%)	21 (100%)	0	100	100
18	c	67/68 (98%)	67 (100%)	0	100	100
All	All	2788/3164 (88%)	2773 (100%)	15 (0%)	85	91

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

Mol	Chain	Res	Type
2	9	172	LYS
2	9	174	GLU
3	8	175	LYS
5	6	246	SER
4	7	95	ASP
7	a	428	ASP

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Mol	Chain	Res	Type
7	a	448	LEU
7	a	579	VAL
7	a	580	SER
8	b	2	VAL
8	b	3	TYR
8	b	4	LYS
8	b	569	THR
9	d	133	GLN
12	h	110	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (24) such sidechains are listed below:

Mol	Chain	Res	Type
1	5	133	GLN
3	8	156	ASN
4	4	123	GLN
6	1	63	GLN
6	1	119	GLN
6	1	132	ASN
6	1	194	GLN
7	a	186	ASN
8	b	80	ASN
8	b	112	ASN
8	b	169	ASN
8	b	326	ASN
8	b	475	ASN
8	b	605	GLN
8	b	629	ASN
8	b	706	GLN
9	d	7	GLN
9	d	26	ASN
9	d	109	GLN
9	d	133	GLN
10	e	52	ASN
11	f	166	GLN
16	m	6	GLN
18	c	38	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

242 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	6	311	5	42,50,73	1.84	5 (11%)	48,85,113	1.58	7 (14%)
27	BCR	i	102	-	41,41,41	0.70	0	56,56,56	2.03	13 (23%)
27	BCR	b	847	-	41,41,41	0.76	0	56,56,56	2.19	22 (39%)
21	CLA	7	306	4	48,56,73	1.73	6 (12%)	55,92,113	1.54	6 (10%)
24	LHG	m	101	-	45,45,48	1.14	6 (13%)	48,51,54	0.95	2 (4%)
21	CLA	a	825	-	55,63,73	1.62	5 (9%)	64,101,113	1.45	8 (12%)
21	CLA	b	819	-	55,63,73	1.62	6 (10%)	64,101,113	1.44	8 (12%)
21	CLA	a	838	-	51,59,73	1.66	5 (9%)	59,96,113	1.55	9 (15%)
27	BCR	b	845	-	41,41,41	0.68	0	56,56,56	2.10	15 (26%)
21	CLA	1	313	-	41,49,73	1.84	6 (14%)	47,84,113	1.64	7 (14%)
21	CLA	f	803	11	52,60,73	1.68	5 (9%)	60,97,113	1.49	8 (13%)
19	XAT	7	303	-	39,47,47	0.96	1 (2%)	54,74,74	2.60	17 (31%)
23	A1L1F	1	304	-	50,59,59	1.30	5 (10%)	62,85,85	2.30	18 (29%)
21	CLA	5	306	1	46,54,73	1.77	6 (13%)	53,90,113	1.55	8 (15%)
19	XAT	5	301	-	39,47,47	0.95	2 (5%)	54,74,74	2.62	19 (35%)
21	CLA	a	814	-	65,73,73	1.49	6 (9%)	76,113,113	1.40	8 (10%)
21	CLA	a	808	-	51,59,73	1.69	5 (9%)	59,96,113	1.50	8 (13%)
21	CLA	4	317	-	55,63,73	1.64	6 (10%)	64,101,113	1.46	7 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	b	802	-	65,73,73	1.47	7 (10%)	76,113,113	1.35	8 (10%)
21	CLA	b	822	-	60,68,73	1.55	6 (10%)	70,107,113	1.37	7 (10%)
21	CLA	b	826	-	65,73,73	1.49	5 (7%)	76,113,113	1.38	6 (7%)
21	CLA	6	307	-	46,54,73	1.77	6 (13%)	53,90,113	1.54	7 (13%)
21	CLA	7	317	-	45,53,73	1.80	5 (11%)	52,89,113	1.58	6 (11%)
21	CLA	b	807	-	65,73,73	1.47	6 (9%)	76,113,113	1.36	9 (11%)
21	CLA	b	804	-	65,73,73	1.48	5 (7%)	76,113,113	1.39	8 (10%)
21	CLA	9	309	2	46,54,73	1.78	6 (13%)	53,90,113	1.55	7 (13%)
21	CLA	1	308	6	65,73,73	1.48	5 (7%)	76,113,113	1.43	8 (10%)
21	CLA	a	809	7	65,73,73	1.45	6 (9%)	76,113,113	1.44	9 (11%)
21	CLA	a	824	-	46,54,73	1.77	6 (13%)	53,90,113	1.49	7 (13%)
21	CLA	a	831	-	65,73,73	1.51	6 (9%)	76,113,113	1.48	8 (10%)
21	CLA	b	828	-	65,73,73	1.50	6 (9%)	76,113,113	1.32	7 (9%)
19	XAT	9	304	-	39,47,47	0.95	1 (2%)	54,74,74	2.42	19 (35%)
21	CLA	b	805	-	65,73,73	1.45	5 (7%)	76,113,113	1.42	7 (9%)
21	CLA	4	307	-	56,64,73	1.62	5 (8%)	65,102,113	1.44	7 (10%)
21	CLA	5	314	1	45,53,73	1.82	5 (11%)	52,89,113	1.58	6 (11%)
21	CLA	1	202	-	60,68,73	1.54	7 (11%)	70,107,113	1.47	7 (10%)
23	A1L1F	6	301	-	50,59,59	1.30	5 (10%)	62,85,85	2.49	20 (32%)
21	CLA	a	842	-	65,73,73	1.51	6 (9%)	76,113,113	1.36	6 (7%)
21	CLA	1	305	-	61,69,73	1.55	6 (9%)	71,108,113	1.39	7 (9%)
19	XAT	8	303	-	39,47,47	0.87	1 (2%)	54,74,74	2.64	18 (33%)
21	CLA	a	806	-	65,73,73	1.50	11 (16%)	76,113,113	1.66	13 (17%)
21	CLA	b	824	-	65,73,73	1.48	5 (7%)	76,113,113	1.39	8 (10%)
21	CLA	1	312	6	52,60,73	1.72	5 (9%)	60,97,113	1.49	8 (13%)
21	CLA	8	310	-	46,54,73	1.76	6 (13%)	53,90,113	1.55	7 (13%)
21	CLA	9	311	-	46,54,73	1.78	5 (10%)	53,90,113	1.61	8 (15%)
21	CLA	b	833	-	58,66,73	1.58	5 (8%)	67,104,113	1.42	8 (11%)
21	CLA	a	844	24	65,73,73	1.46	5 (7%)	76,113,113	1.40	9 (11%)
21	CLA	b	839	-	65,73,73	1.50	6 (9%)	76,113,113	1.38	8 (10%)
19	XAT	4	302	-	39,47,47	0.92	1 (2%)	54,74,74	2.57	19 (35%)
21	CLA	4	309	-	50,58,73	1.69	6 (12%)	58,95,113	1.54	8 (13%)
21	CLA	b	814	-	55,63,73	1.61	6 (10%)	64,101,113	1.56	8 (12%)
19	XAT	8	301	-	39,47,47	0.91	0	54,74,74	2.53	19 (35%)
21	CLA	b	837	-	65,73,73	1.48	5 (7%)	76,113,113	1.42	8 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
28	SF4	a	851	-	0,12,12	-	-	-		
21	CLA	6	314	-	46,54,73	1.72	6 (13%)	53,90,113	1.61	6 (11%)
21	CLA	8	312	3	52,60,73	1.65	5 (9%)	60,97,113	1.52	8 (13%)
21	CLA	a	841	-	65,73,73	1.49	5 (7%)	76,113,113	1.40	9 (11%)
21	CLA	b	835	-	53,61,73	1.66	5 (9%)	61,98,113	1.51	8 (13%)
26	PQN	a	843	-	34,34,34	1.58	2 (5%)	42,45,45	1.09	3 (7%)
21	CLA	5	307	22	45,53,73	1.79	5 (11%)	52,89,113	1.57	7 (13%)
21	CLA	a	821	-	45,53,73	1.77	6 (13%)	52,89,113	1.61	7 (13%)
21	CLA	5	315	-	52,60,73	1.65	5 (9%)	60,97,113	1.54	8 (13%)
21	CLA	b	811	-	54,62,73	1.67	7 (12%)	67,100,113	1.51	9 (13%)
21	CLA	l	203	-	46,54,73	1.75	6 (13%)	53,90,113	1.56	7 (13%)
21	CLA	9	313	2	46,54,73	1.77	6 (13%)	53,90,113	1.63	7 (13%)
19	XAT	a	853	-	39,47,47	0.88	1 (2%)	54,74,74	2.72	18 (33%)
24	LHG	a	846	21	26,26,48	1.27	4 (15%)	29,32,54	1.20	2 (6%)
21	CLA	a	852	-	65,73,73	1.49	6 (9%)	76,113,113	1.34	7 (9%)
21	CLA	a	803	-	65,73,73	1.50	6 (9%)	76,113,113	1.36	6 (7%)
21	CLA	a	816	-	50,58,73	1.69	6 (12%)	58,95,113	1.56	9 (15%)
21	CLA	8	307	3	65,73,73	1.47	5 (7%)	76,113,113	1.40	8 (10%)
21	CLA	4	308	-	65,73,73	1.47	6 (9%)	76,113,113	1.36	9 (11%)
21	CLA	8	308	-	55,63,73	1.61	5 (9%)	64,101,113	1.51	9 (14%)
21	CLA	4	316	-	46,54,73	1.77	5 (10%)	53,90,113	1.58	7 (13%)
21	CLA	a	823	-	49,57,73	1.68	6 (12%)	55,93,113	1.61	7 (12%)
21	CLA	a	834	-	65,73,73	1.49	5 (7%)	76,113,113	1.36	9 (11%)
21	CLA	b	829	-	65,73,73	1.52	6 (9%)	76,113,113	1.45	10 (13%)
29	LMG	j	103	-	32,32,55	1.13	2 (6%)	40,40,63	1.14	3 (7%)
24	LHG	b	849	21	30,30,48	1.34	6 (20%)	33,36,54	1.14	2 (6%)
21	CLA	6	315	5	41,49,73	1.87	6 (14%)	47,84,113	1.63	6 (12%)
27	BCR	b	844	-	41,41,41	0.72	0	56,56,56	1.93	16 (28%)
21	CLA	8	311	-	56,64,73	1.58	6 (10%)	65,102,113	1.49	8 (12%)
19	XAT	8	302	-	39,47,47	0.92	1 (2%)	54,74,74	2.65	20 (37%)
21	CLA	a	818	-	56,64,73	1.61	6 (10%)	65,102,113	1.44	8 (12%)
21	CLA	a	827	-	65,73,73	1.49	6 (9%)	76,113,113	1.45	9 (11%)
21	CLA	b	841	24	65,73,73	1.53	6 (9%)	76,113,113	1.36	8 (10%)
25	DGD	8	315	21	41,41,67	1.04	2 (4%)	55,55,81	1.11	5 (9%)
21	CLA	a	820	-	65,73,73	1.49	5 (7%)	76,113,113	1.43	9 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	a	810	7	65,73,73	1.50	6 (9%)	76,113,113	1.41	8 (10%)
21	CLA	b	821	-	51,59,73	1.65	6 (11%)	59,96,113	1.57	9 (15%)
19	XAT	6	306	-	39,47,47	0.93	1 (2%)	54,74,74	2.61	19 (35%)
21	CLA	4	313	-	53,61,73	1.65	5 (9%)	61,98,113	1.48	8 (13%)
21	CLA	8	314	-	41,49,73	1.85	5 (12%)	47,84,113	1.63	7 (14%)
21	CLA	l	201	-	42,50,73	1.82	6 (14%)	48,85,113	1.64	7 (14%)
27	BCR	b	852	-	41,41,41	0.73	0	56,56,56	2.05	15 (26%)
21	CLA	a	822	-	65,73,73	1.50	5 (7%)	76,113,113	1.38	8 (10%)
25	DGD	4	318	-	41,41,67	1.06	2 (4%)	55,55,81	1.82	5 (9%)
21	CLA	f	802	-	65,73,73	1.49	5 (7%)	76,113,113	1.41	9 (11%)
21	CLA	9	314	-	55,63,73	1.62	6 (10%)	64,101,113	1.49	8 (12%)
19	XAT	4	303	-	39,47,47	0.89	2 (5%)	54,74,74	2.57	17 (31%)
19	XAT	4	304	-	39,47,47	0.88	1 (2%)	54,74,74	2.56	15 (27%)
19	XAT	9	305	-	39,47,47	0.97	1 (2%)	54,74,74	2.35	18 (33%)
20	A1L1G	9	301	-	38,47,47	1.46	6 (15%)	49,71,71	1.57	10 (20%)
20	A1L1G	1	301	-	38,47,47	1.44	6 (15%)	49,71,71	1.57	11 (22%)
21	CLA	1	307	-	54,62,73	1.63	5 (9%)	62,99,113	1.52	8 (12%)
21	CLA	b	817	-	59,67,73	1.56	5 (8%)	68,105,113	1.51	7 (10%)
21	CLA	7	309	-	46,55,73	1.75	5 (10%)	52,91,113	1.52	7 (13%)
21	CLA	1	311	-	53,61,73	1.64	5 (9%)	61,98,113	1.49	9 (14%)
21	CLA	6	312	5	51,59,73	1.67	6 (11%)	59,96,113	1.51	7 (11%)
21	CLA	7	316	-	51,59,73	1.63	6 (11%)	59,96,113	1.59	8 (13%)
21	CLA	6	308	-	58,66,73	1.61	5 (8%)	67,104,113	1.43	6 (8%)
21	CLA	a	807	-	65,73,73	1.48	6 (9%)	76,113,113	1.36	7 (9%)
21	CLA	1	310	6	65,73,73	1.50	5 (7%)	76,113,113	1.33	8 (10%)
21	CLA	b	832	-	65,73,73	1.47	6 (9%)	76,113,113	1.40	7 (9%)
21	CLA	b	840	-	65,73,73	1.51	5 (7%)	76,113,113	1.41	8 (10%)
21	CLA	a	805	21	55,63,73	1.61	6 (10%)	64,101,113	1.51	8 (12%)
21	CLA	8	313	-	46,54,73	1.78	6 (13%)	53,90,113	1.54	7 (13%)
19	XAT	7	305	-	39,47,47	0.86	0	54,74,74	2.65	20 (37%)
21	CLA	5	309	-	55,63,73	1.63	5 (9%)	64,101,113	1.47	7 (10%)
21	CLA	4	312	-	46,54,73	1.79	6 (13%)	53,90,113	1.51	7 (13%)
21	CLA	a	856	-	65,73,73	1.48	5 (7%)	76,113,113	1.34	8 (10%)
27	BCR	b	843	-	41,41,41	0.69	0	56,56,56	2.29	21 (37%)
21	CLA	b	808	-	65,73,73	1.48	7 (10%)	76,113,113	1.42	8 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	7	312	-	48,56,73	1.71	6 (12%)	55,92,113	1.56	8 (14%)
19	XAT	7	304	-	39,47,47	0.90	1 (2%)	54,74,74	2.68	21 (38%)
21	CLA	b	810	-	65,73,73	1.47	6 (9%)	76,113,113	1.45	8 (10%)
22	SQD	1	315	-	44,45,54	1.29	4 (9%)	53,56,65	1.16	4 (7%)
29	LMG	a	855	-	34,34,55	1.14	2 (5%)	42,42,63	1.15	3 (7%)
21	CLA	a	830	-	65,73,73	1.48	7 (10%)	76,113,113	1.40	8 (10%)
19	XAT	5	305	-	39,47,47	0.89	0	54,74,74	2.86	22 (40%)
21	CLA	b	831	-	49,57,73	1.69	5 (10%)	55,93,113	1.55	8 (14%)
27	BCR	a	850	-	41,41,41	0.74	0	56,56,56	2.16	15 (26%)
23	A1L1F	6	304	-	46,55,59	1.33	4 (8%)	58,81,85	2.55	20 (34%)
21	CLA	4	311	-	46,54,73	1.78	6 (13%)	53,90,113	1.56	7 (13%)
21	CLA	a	829	-	62,70,73	1.51	6 (9%)	72,109,113	1.39	8 (11%)
21	CLA	1	314	-	45,53,73	1.78	5 (11%)	52,89,113	1.56	6 (11%)
21	CLA	5	312	-	51,59,73	1.65	5 (9%)	59,96,113	1.53	9 (15%)
21	CLA	a	813	-	54,62,73	1.65	5 (9%)	62,99,113	1.45	7 (11%)
24	LHG	9	307	-	35,35,48	1.22	6 (17%)	38,41,54	0.97	2 (5%)
21	CLA	a	839	-	65,73,73	1.48	6 (9%)	76,113,113	1.42	8 (10%)
27	BCR	b	853	-	41,41,41	0.71	0	56,56,56	1.97	18 (32%)
21	CLA	4	310	-	65,73,73	1.50	5 (7%)	76,113,113	1.41	8 (10%)
21	CLA	5	313	-	52,60,73	1.64	5 (9%)	60,97,113	1.53	9 (15%)
21	CLA	7	313	-	54,62,73	1.64	5 (9%)	62,99,113	1.49	9 (14%)
20	A1L1G	5	304	-	38,47,47	1.42	6 (15%)	49,71,71	1.44	7 (14%)
21	CLA	6	309	-	65,73,73	1.49	6 (9%)	76,113,113	1.41	6 (7%)
21	CLA	7	310	-	46,54,73	1.78	6 (13%)	53,90,113	1.57	6 (11%)
21	CLA	h	203	-	55,63,73	1.62	6 (10%)	64,101,113	1.47	10 (15%)
27	BCR	m	102	-	41,41,41	1.18	3 (7%)	56,56,56	1.23	6 (10%)
21	CLA	6	313	-	52,60,73	1.65	5 (9%)	60,97,113	1.52	7 (11%)
27	BCR	a	848	-	41,41,41	0.73	0	56,56,56	1.94	18 (32%)
20	A1L1G	9	306	-	38,47,47	1.41	6 (15%)	49,71,71	1.53	8 (16%)
21	CLA	1	306	-	65,73,73	1.47	5 (7%)	76,113,113	1.42	9 (11%)
24	LHG	a	845	-	47,47,48	1.11	6 (12%)	50,53,54	0.97	2 (4%)
27	BCR	i	101	-	41,41,41	0.75	0	56,56,56	2.13	14 (25%)
19	XAT	6	305	-	39,47,47	0.89	1 (2%)	54,74,74	2.73	19 (35%)
21	CLA	j	101	14	42,50,73	1.83	5 (11%)	48,85,113	1.64	6 (12%)
21	CLA	4	315	4	41,49,73	1.87	6 (14%)	47,84,113	1.63	7 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	5	308	1	60,68,73	1.54	5 (8%)	70,107,113	1.42	8 (11%)
21	CLA	a	802	-	58,66,73	1.55	6 (10%)	67,104,113	1.49	8 (11%)
21	CLA	a	828	-	65,73,73	1.46	6 (9%)	76,113,113	1.40	7 (9%)
21	CLA	b	823	-	53,61,73	1.63	6 (11%)	61,98,113	1.46	8 (13%)
21	CLA	b	836	-	58,66,73	1.57	5 (8%)	67,104,113	1.52	8 (11%)
21	CLA	b	813	-	65,73,73	1.48	5 (7%)	76,113,113	1.38	8 (10%)
21	CLA	b	830	-	41,49,73	1.83	6 (14%)	47,84,113	1.64	9 (19%)
21	CLA	9	316	-	62,70,73	1.55	6 (9%)	72,109,113	1.37	8 (11%)
27	BCR	b	850	-	41,41,41	0.73	0	56,56,56	1.89	17 (30%)
26	PQN	b	842	-	34,34,34	1.55	2 (5%)	42,45,45	1.20	4 (9%)
21	CLA	b	803	-	65,73,73	1.46	5 (7%)	76,113,113	1.54	13 (17%)
21	CLA	7	314	-	45,53,73	1.80	6 (13%)	52,89,113	1.64	7 (13%)
20	A1L1G	7	302	-	38,47,47	1.41	6 (15%)	49,71,71	1.51	9 (18%)
27	BCR	a	849	-	41,41,41	0.74	0	56,56,56	2.17	19 (33%)
19	XAT	1	303	-	39,47,47	0.90	1 (2%)	54,74,74	2.52	20 (37%)
21	CLA	a	801	-	65,73,73	1.51	8 (12%)	76,113,113	1.38	7 (9%)
21	CLA	4	306	4	45,53,73	1.79	6 (13%)	52,89,113	1.57	7 (13%)
21	CLA	b	801	-	65,73,73	1.50	6 (9%)	76,113,113	1.38	8 (10%)
25	DGD	b	851	-	58,58,67	1.15	7 (12%)	72,72,81	1.53	10 (13%)
21	CLA	b	838	-	65,73,73	1.52	6 (9%)	76,113,113	1.34	8 (10%)
27	BCR	b	848	-	41,41,41	0.76	0	56,56,56	1.79	16 (28%)
21	CLA	b	834	-	65,73,73	1.49	6 (9%)	76,113,113	1.37	7 (9%)
28	SF4	c	102	-	0,12,12	-	-	-		
19	XAT	7	301	-	39,47,47	0.93	1 (2%)	54,74,74	2.63	19 (35%)
21	CLA	a	815	-	45,53,73	1.77	5 (11%)	52,89,113	1.59	8 (15%)
27	BCR	j	102	-	41,41,41	0.73	0	56,56,56	2.08	17 (30%)
19	XAT	4	301	-	39,47,47	0.92	2 (5%)	54,74,74	2.54	19 (35%)
22	SQD	5	317	21	34,35,54	1.47	4 (11%)	43,46,65	1.35	7 (16%)
21	CLA	b	809	-	65,73,73	1.46	5 (7%)	76,113,113	1.42	8 (10%)
21	CLA	a	812	21	62,70,73	1.51	6 (9%)	72,109,113	1.45	8 (11%)
27	BCR	a	847	-	41,41,41	0.70	0	56,56,56	1.94	16 (28%)
21	CLA	b	818	-	60,68,73	1.55	5 (8%)	70,107,113	1.40	7 (10%)
19	XAT	5	303	-	39,47,47	0.93	1 (2%)	54,74,74	2.59	20 (37%)
19	XAT	6	302	-	39,47,47	0.91	1 (2%)	54,74,74	2.81	20 (37%)
21	CLA	5	310	1	65,73,73	1.48	5 (7%)	76,113,113	1.38	7 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
19	XAT	4	305	-	39,47,47	0.89	1 (2%)	54,74,74	2.75	19 (35%)
21	CLA	5	316	-	46,54,73	1.75	5 (10%)	53,90,113	1.56	7 (13%)
21	CLA	b	820	-	50,58,73	1.69	6 (12%)	58,95,113	1.60	10 (17%)
21	CLA	b	827	-	65,73,73	1.49	6 (9%)	76,113,113	1.38	8 (10%)
21	CLA	9	310	-	46,54,73	1.75	5 (10%)	53,90,113	1.63	6 (11%)
21	CLA	8	309	-	57,65,73	1.60	5 (8%)	66,103,113	1.45	9 (13%)
27	BCR	f	801	-	41,41,41	0.68	0	56,56,56	2.14	15 (26%)
19	XAT	a	854	-	39,47,47	0.95	2 (5%)	54,74,74	2.70	20 (37%)
21	CLA	a	832	-	50,58,73	1.68	6 (12%)	58,95,113	1.55	9 (15%)
19	XAT	1	302	-	39,47,47	0.91	1 (2%)	54,74,74	2.60	17 (31%)
21	CLA	8	306	25	46,54,73	1.75	6 (13%)	53,90,113	1.53	7 (13%)
21	CLA	1	309	6	46,54,73	1.79	6 (13%)	53,90,113	1.51	7 (13%)
19	XAT	6	303	-	39,47,47	0.90	2 (5%)	54,74,74	2.65	19 (35%)
21	CLA	a	817	-	45,53,73	1.80	5 (11%)	52,89,113	1.58	7 (13%)
21	CLA	a	833	-	55,63,73	1.58	5 (9%)	64,101,113	1.54	8 (12%)
21	CLA	7	311	-	46,54,73	1.78	6 (13%)	53,90,113	1.58	7 (13%)
23	A1L1F	8	304	-	50,59,59	1.30	4 (8%)	62,85,85	2.79	23 (37%)
21	CLA	8	305	3	43,51,73	1.79	5 (11%)	49,86,113	1.65	7 (14%)
21	CLA	a	837	7	45,53,73	1.78	5 (11%)	52,89,113	1.59	7 (13%)
21	CLA	9	308	2	65,73,73	1.49	7 (10%)	76,113,113	1.42	8 (10%)
21	CLA	a	835	-	65,73,73	1.47	5 (7%)	76,113,113	1.43	7 (9%)
21	CLA	b	815	-	45,53,73	1.76	6 (13%)	52,89,113	1.59	7 (13%)
21	CLA	6	316	5	46,54,73	1.75	5 (10%)	53,90,113	1.57	6 (11%)
21	CLA	a	819	-	54,62,73	1.62	7 (12%)	62,99,113	1.45	7 (11%)
23	A1L1F	h	202	-	50,59,59	1.39	5 (10%)	62,85,85	2.59	22 (35%)
21	CLA	h	201	-	65,73,73	1.51	6 (9%)	76,113,113	1.45	7 (9%)
21	CLA	5	311	-	46,54,73	1.77	6 (13%)	53,90,113	1.53	7 (13%)
21	CLA	7	307	-	45,53,73	1.80	5 (11%)	52,89,113	1.57	7 (13%)
21	CLA	9	315	2	42,50,73	1.84	5 (11%)	48,85,113	1.61	7 (14%)
28	SF4	c	101	-	0,12,12	-	-	-	-	-
21	CLA	b	812	-	53,61,73	1.65	5 (9%)	61,98,113	1.50	8 (13%)
21	CLA	b	806	-	65,73,73	1.48	5 (7%)	76,113,113	1.40	8 (10%)
21	CLA	4	314	4	45,53,73	1.80	6 (13%)	52,89,113	1.56	7 (13%)
21	CLA	7	308	-	60,68,73	1.53	5 (8%)	70,107,113	1.44	7 (10%)
21	CLA	a	811	-	56,64,73	1.59	6 (10%)	65,102,113	1.48	9 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	a	840	-	65,73,73	1.52	5 (7%)	76,113,113	1.36	7 (9%)
21	CLA	a	826	-	65,73,73	1.45	6 (9%)	76,113,113	1.43	6 (7%)
23	A1L1F	9	302	-	50,59,59	1.37	5 (10%)	62,85,85	2.72	19 (30%)
27	BCR	f	804	-	41,41,41	0.72	0	56,56,56	2.04	17 (30%)
19	XAT	5	302	-	39,47,47	0.94	2 (5%)	54,74,74	2.58	19 (35%)
21	CLA	6	310	-	52,60,73	1.65	5 (9%)	60,97,113	1.53	8 (13%)
21	CLA	b	816	-	55,63,73	1.63	6 (10%)	64,101,113	1.48	9 (14%)
21	CLA	a	804	-	55,63,73	1.62	6 (10%)	64,101,113	1.55	10 (15%)
27	BCR	b	846	-	41,41,41	0.71	0	56,56,56	1.97	21 (37%)
21	CLA	7	315	4	41,49,73	1.85	5 (12%)	47,84,113	1.65	8 (17%)
21	CLA	a	836	-	50,58,73	1.70	6 (12%)	58,95,113	1.49	9 (15%)
21	CLA	9	312	-	46,54,73	1.75	6 (13%)	53,90,113	1.67	8 (15%)
21	CLA	b	825	-	64,72,73	1.48	5 (7%)	74,111,113	1.45	7 (9%)
19	XAT	9	303	-	39,47,47	0.95	1 (2%)	54,74,74	2.61	19 (35%)

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
21	CLA	6	311	5	1/1/10/20	2/10/88/115	-
27	BCR	i	102	-	-	8/29/63/63	0/2/2/2
27	BCR	b	847	-	-	1/29/63/63	0/2/2/2
21	CLA	7	306	4	1/1/11/20	10/17/95/115	-
24	LHG	m	101	-	-	28/50/50/53	-
21	CLA	a	825	-	1/1/13/20	8/25/103/115	-
21	CLA	b	819	-	1/1/13/20	3/25/103/115	-
21	CLA	a	838	-	1/1/12/20	6/21/99/115	-
27	BCR	b	845	-	-	6/29/63/63	0/2/2/2
21	CLA	1	313	-	1/1/10/20	3/8/86/115	-
21	CLA	f	803	11	1/1/12/20	2/22/100/115	-
19	XAT	7	303	-	-	8/31/93/93	0/4/4/4
23	A1L1F	1	304	-	-	12/43/99/99	0/3/3/3
21	CLA	5	306	1	1/1/11/20	4/15/93/115	-
21	CLA	a	814	-	1/1/15/20	20/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
19	XAT	5	301	-	-	4/31/93/93	0/4/4/4
21	CLA	a	808	-	1/1/12/20	3/21/99/115	-
21	CLA	4	317	-	1/1/13/20	7/25/103/115	-
21	CLA	b	802	-	1/1/15/20	18/37/115/115	-
21	CLA	b	822	-	1/1/14/20	7/31/109/115	-
21	CLA	b	826	-	1/1/15/20	5/37/115/115	-
21	CLA	6	307	-	1/1/11/20	1/15/93/115	-
21	CLA	7	317	-	1/1/11/20	5/13/91/115	-
21	CLA	b	807	-	1/1/15/20	12/37/115/115	-
21	CLA	b	804	-	1/1/15/20	12/37/115/115	-
21	CLA	9	309	2	1/1/11/20	3/15/93/115	-
21	CLA	1	308	6	1/1/15/20	13/37/115/115	-
21	CLA	a	809	7	1/1/15/20	15/37/115/115	-
21	CLA	a	824	-	1/1/11/20	4/15/93/115	-
21	CLA	a	831	-	1/1/15/20	11/37/115/115	-
21	CLA	b	828	-	1/1/15/20	11/37/115/115	-
21	CLA	l	202	-	1/1/14/20	6/31/109/115	-
21	CLA	b	805	-	1/1/15/20	16/37/115/115	-
21	CLA	4	307	-	1/1/13/20	7/27/105/115	-
21	CLA	5	314	1	1/1/11/20	5/13/91/115	-
19	XAT	9	304	-	-	1/31/93/93	0/4/4/4
23	A1L1F	6	301	-	-	11/43/99/99	0/3/3/3
21	CLA	a	842	-	1/1/15/20	9/37/115/115	-
21	CLA	1	305	-	1/1/14/20	10/33/111/115	-
19	XAT	8	303	-	-	0/31/93/93	0/4/4/4
21	CLA	a	806	-	1/1/15/20	12/37/115/115	-
21	CLA	b	824	-	1/1/15/20	14/37/115/115	-
21	CLA	1	312	6	1/1/12/20	3/22/100/115	-
21	CLA	8	310	-	1/1/11/20	5/15/93/115	-
21	CLA	9	311	-	1/1/11/20	6/15/93/115	-
21	CLA	b	833	-	1/1/13/20	16/29/107/115	-
21	CLA	a	844	24	1/1/15/20	16/37/115/115	-
21	CLA	b	839	-	1/1/15/20	13/37/115/115	-
19	XAT	4	302	-	-	0/31/93/93	0/4/4/4
21	CLA	4	309	-	1/1/12/20	7/19/97/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	b	814	-	1/1/13/20	13/25/103/115	-
21	CLA	b	837	-	1/1/15/20	8/37/115/115	-
19	XAT	8	301	-	-	3/31/93/93	0/4/4/4
28	SF4	a	851	-	-	-	0/6/5/5
21	CLA	6	314	-	1/1/11/20	6/15/93/115	-
21	CLA	8	312	3	1/1/12/20	2/22/100/115	-
21	CLA	a	841	-	1/1/15/20	15/37/115/115	-
21	CLA	b	835	-	1/1/12/20	8/23/101/115	-
26	PQN	a	843	-	-	5/23/43/43	0/2/2/2
21	CLA	5	307	22	1/1/11/20	7/13/91/115	-
21	CLA	a	821	-	1/1/11/20	2/13/91/115	-
21	CLA	5	315	-	1/1/12/20	4/22/100/115	-
21	CLA	b	811	-	1/1/13/20	5/25/101/115	-
21	CLA	1	203	-	1/1/11/20	4/15/93/115	-
21	CLA	9	313	2	1/1/11/20	9/15/93/115	-
19	XAT	a	853	-	-	5/31/93/93	0/4/4/4
24	LHG	a	846	21	-	16/31/31/53	-
21	CLA	a	852	-	1/1/15/20	17/37/115/115	-
21	CLA	a	803	-	1/1/15/20	3/37/115/115	-
21	CLA	a	816	-	1/1/12/20	5/19/97/115	-
21	CLA	8	307	3	1/1/15/20	13/37/115/115	-
21	CLA	4	308	-	1/1/15/20	14/37/115/115	-
21	CLA	8	308	-	1/1/13/20	7/25/103/115	-
21	CLA	4	316	-	1/1/11/20	7/15/93/115	-
21	CLA	a	823	-	1/1/11/20	7/18/96/115	-
21	CLA	a	834	-	1/1/15/20	7/37/115/115	-
21	CLA	b	829	-	1/1/15/20	11/37/115/115	-
29	LMG	j	103	-	-	11/27/47/70	0/1/1/1
24	LHG	b	849	21	-	20/35/35/53	-
21	CLA	6	315	5	1/1/10/20	3/8/86/115	-
27	BCR	b	844	-	-	2/29/63/63	0/2/2/2
21	CLA	8	311	-	1/1/13/20	8/27/105/115	-
21	CLA	a	818	-	1/1/13/20	11/27/105/115	-
19	XAT	8	302	-	-	4/31/93/93	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	a	827	-	1/1/15/20	8/37/115/115	-
21	CLA	b	841	24	1/1/15/20	9/37/115/115	-
25	DGD	8	315	21	-	11/29/69/95	0/2/2/2
21	CLA	a	820	-	1/1/15/20	16/37/115/115	-
21	CLA	a	810	7	1/1/15/20	13/37/115/115	-
21	CLA	b	821	-	1/1/12/20	2/21/99/115	-
21	CLA	4	313	-	1/1/12/20	6/23/101/115	-
19	XAT	6	306	-	-	4/31/93/93	0/4/4/4
21	CLA	8	314	-	1/1/10/20	5/8/86/115	-
21	CLA	l	201	-	1/1/10/20	2/10/88/115	-
27	BCR	b	852	-	-	5/29/63/63	0/2/2/2
21	CLA	a	822	-	1/1/15/20	5/37/115/115	-
25	DGD	4	318	-	-	10/29/69/95	0/2/2/2
21	CLA	f	802	-	1/1/15/20	13/37/115/115	-
21	CLA	9	314	-	1/1/13/20	9/25/103/115	-
19	XAT	4	303	-	-	3/31/93/93	0/4/4/4
19	XAT	4	304	-	-	0/31/93/93	0/4/4/4
21	CLA	1	307	-	1/1/12/20	6/24/102/115	-
19	XAT	9	305	-	-	3/31/93/93	0/4/4/4
20	A1L1G	9	301	-	-	16/29/85/85	0/3/3/3
20	A1L1G	1	301	-	-	11/29/85/85	0/3/3/3
21	CLA	b	817	-	1/1/13/20	10/30/108/115	-
21	CLA	7	309	-	1/1/11/20	5/15/93/115	-
21	CLA	1	311	-	1/1/12/20	6/23/101/115	-
21	CLA	6	312	5	1/1/12/20	5/21/99/115	-
21	CLA	7	316	-	1/1/12/20	11/21/99/115	-
21	CLA	6	308	-	1/1/13/20	4/29/107/115	-
21	CLA	a	807	-	1/1/15/20	18/37/115/115	-
21	CLA	1	310	6	1/1/15/20	18/37/115/115	-
21	CLA	b	832	-	1/1/15/20	13/37/115/115	-
21	CLA	b	840	-	1/1/15/20	17/37/115/115	-
21	CLA	a	805	21	1/1/13/20	6/25/103/115	-
21	CLA	8	313	-	1/1/11/20	3/15/93/115	-
19	XAT	7	305	-	-	2/31/93/93	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	5	309	-	1/1/13/20	4/25/103/115	-
21	CLA	4	312	-	1/1/11/20	4/15/93/115	-
21	CLA	a	856	-	1/1/15/20	13/37/115/115	-
27	BCR	b	843	-	-	2/29/63/63	0/2/2/2
21	CLA	b	808	-	1/1/15/20	11/37/115/115	-
21	CLA	7	312	-	1/1/11/20	3/17/95/115	-
21	CLA	b	810	-	1/1/15/20	17/37/115/115	-
19	XAT	7	304	-	-	6/31/93/93	0/4/4/4
22	SQD	1	315	-	-	19/40/60/69	0/1/1/1
29	LMG	a	855	-	-	13/29/49/70	0/1/1/1
21	CLA	a	830	-	1/1/15/20	15/37/115/115	-
19	XAT	5	305	-	-	1/31/93/93	0/4/4/4
21	CLA	b	831	-	1/1/11/20	6/18/96/115	-
27	BCR	a	850	-	-	4/29/63/63	0/2/2/2
23	A1L1F	6	304	-	-	12/39/95/99	0/3/3/3
21	CLA	4	311	-	1/1/11/20	8/15/93/115	-
21	CLA	a	829	-	1/1/14/20	15/34/112/115	-
21	CLA	1	314	-	1/1/11/20	5/13/91/115	-
21	CLA	5	312	-	1/1/12/20	8/21/99/115	-
21	CLA	a	813	-	1/1/12/20	10/24/102/115	-
24	LHG	9	307	-	-	21/40/40/53	-
21	CLA	a	839	-	1/1/15/20	15/37/115/115	-
27	BCR	b	853	-	-	4/29/63/63	0/2/2/2
21	CLA	4	310	-	1/1/15/20	16/37/115/115	-
21	CLA	5	313	-	1/1/12/20	0/22/100/115	-
21	CLA	7	313	-	1/1/12/20	7/24/102/115	-
20	A1L1G	5	304	-	-	9/29/85/85	0/3/3/3
21	CLA	6	309	-	1/1/15/20	10/37/115/115	-
21	CLA	7	310	-	1/1/11/20	6/15/93/115	-
21	CLA	h	203	-	1/1/13/20	9/25/103/115	-
27	BCR	m	102	-	-	9/29/63/63	0/2/2/2
21	CLA	6	313	-	1/1/12/20	2/22/100/115	-
27	BCR	a	848	-	-	0/29/63/63	0/2/2/2
20	A1L1G	9	306	-	-	18/29/85/85	0/3/3/3
21	CLA	1	306	-	1/1/15/20	15/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	LHG	a	845	-	-	27/52/52/53	-
27	BCR	i	101	-	-	3/29/63/63	0/2/2/2
19	XAT	6	305	-	-	4/31/93/93	0/4/4/4
21	CLA	j	101	14	1/1/10/20	5/10/88/115	-
21	CLA	4	315	4	1/1/10/20	5/8/86/115	-
21	CLA	5	308	1	1/1/14/20	7/31/109/115	-
21	CLA	a	802	-	1/1/13/20	7/29/107/115	-
21	CLA	a	828	-	1/1/15/20	9/37/115/115	-
21	CLA	b	823	-	1/1/12/20	8/23/101/115	-
21	CLA	b	836	-	1/1/13/20	11/29/107/115	-
21	CLA	b	813	-	1/1/15/20	14/37/115/115	-
21	CLA	b	830	-	1/1/10/20	1/8/86/115	-
21	CLA	9	316	-	1/1/14/20	9/34/112/115	-
27	BCR	b	850	-	-	2/29/63/63	0/2/2/2
26	PQN	b	842	-	-	1/23/43/43	0/2/2/2
21	CLA	b	803	-	1/1/15/20	10/37/115/115	-
21	CLA	7	314	-	1/1/11/20	4/13/91/115	-
20	A1L1G	7	302	-	-	15/29/85/85	0/3/3/3
27	BCR	a	849	-	-	0/29/63/63	0/2/2/2
19	XAT	1	303	-	-	0/31/93/93	0/4/4/4
21	CLA	a	801	-	1/1/15/20	22/37/115/115	-
21	CLA	4	306	4	1/1/11/20	7/13/91/115	-
21	CLA	b	801	-	1/1/15/20	20/37/115/115	-
25	DGD	b	851	-	-	20/46/86/95	0/2/2/2
21	CLA	b	838	-	1/1/15/20	8/37/115/115	-
27	BCR	b	848	-	-	2/29/63/63	0/2/2/2
21	CLA	b	834	-	1/1/15/20	14/37/115/115	-
28	SF4	c	102	-	-	-	0/6/5/5
21	CLA	a	815	-	1/1/11/20	2/13/91/115	-
19	XAT	7	301	-	-	6/31/93/93	0/4/4/4
27	BCR	j	102	-	-	4/29/63/63	0/2/2/2
19	XAT	4	301	-	-	3/31/93/93	0/4/4/4
22	SQD	5	317	21	-	11/30/50/69	0/1/1/1
21	CLA	b	809	-	1/1/15/20	16/37/115/115	-
21	CLA	a	812	21	1/1/14/20	9/34/112/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	BCR	a	847	-	-	0/29/63/63	0/2/2/2
21	CLA	b	818	-	1/1/14/20	14/31/109/115	-
21	CLA	5	310	1	1/1/15/20	14/37/115/115	-
21	CLA	b	827	-	1/1/15/20	14/37/115/115	-
21	CLA	5	316	-	1/1/11/20	5/15/93/115	-
19	XAT	5	303	-	-	3/31/93/93	0/4/4/4
21	CLA	b	820	-	1/1/12/20	7/19/97/115	-
19	XAT	4	305	-	-	4/31/93/93	0/4/4/4
19	XAT	6	302	-	-	7/31/93/93	0/4/4/4
21	CLA	9	310	-	1/1/11/20	6/15/93/115	-
21	CLA	8	309	-	1/1/13/20	8/28/106/115	-
27	BCR	f	801	-	-	3/29/63/63	0/2/2/2
19	XAT	a	854	-	-	7/31/93/93	0/4/4/4
21	CLA	a	832	-	1/1/12/20	5/19/97/115	-
21	CLA	8	306	25	1/1/11/20	2/15/93/115	-
21	CLA	1	309	6	1/1/11/20	6/15/93/115	-
19	XAT	1	302	-	-	0/31/93/93	0/4/4/4
21	CLA	a	817	-	1/1/11/20	6/13/91/115	-
21	CLA	a	833	-	1/1/13/20	2/25/103/115	-
19	XAT	6	303	-	-	5/31/93/93	0/4/4/4
21	CLA	7	311	-	1/1/11/20	5/15/93/115	-
23	A1L1F	8	304	-	-	12/43/99/99	0/3/3/3
21	CLA	8	305	3	1/1/10/20	2/11/89/115	-
21	CLA	a	837	7	1/1/11/20	4/13/91/115	-
21	CLA	9	308	2	1/1/15/20	15/37/115/115	-
21	CLA	a	835	-	1/1/15/20	12/37/115/115	-
21	CLA	b	815	-	1/1/11/20	3/13/91/115	-
21	CLA	6	316	5	1/1/11/20	7/15/93/115	-
21	CLA	a	819	-	1/1/12/20	4/24/102/115	-
23	A1L1F	h	202	-	-	11/43/99/99	1/3/3/3
21	CLA	h	201	-	1/1/15/20	9/37/115/115	-
21	CLA	5	311	-	1/1/11/20	6/15/93/115	-
21	CLA	7	307	-	1/1/11/20	4/13/91/115	-
21	CLA	9	315	2	1/1/10/20	6/10/88/115	-
28	SF4	c	101	-	-	-	0/6/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	b	812	-	1/1/12/20	6/23/101/115	-
21	CLA	b	806	-	1/1/15/20	19/37/115/115	-
21	CLA	4	314	4	1/1/11/20	3/13/91/115	-
21	CLA	7	308	-	1/1/14/20	14/31/109/115	-
21	CLA	a	811	-	1/1/13/20	8/27/105/115	-
21	CLA	a	840	-	1/1/15/20	8/37/115/115	-
21	CLA	a	826	-	1/1/15/20	9/37/115/115	-
23	A1L1F	9	302	-	-	13/43/99/99	0/3/3/3
27	BCR	f	804	-	-	4/29/63/63	0/2/2/2
21	CLA	6	310	-	1/1/12/20	7/22/100/115	-
19	XAT	5	302	-	-	3/31/93/93	0/4/4/4
21	CLA	b	816	-	1/1/13/20	4/25/103/115	-
21	CLA	a	804	-	1/1/13/20	10/25/103/115	-
27	BCR	b	846	-	-	0/29/63/63	0/2/2/2
21	CLA	7	315	4	1/1/10/20	4/8/86/115	-
21	CLA	a	836	-	1/1/12/20	6/19/97/115	-
21	CLA	9	312	-	1/1/11/20	9/15/93/115	-
21	CLA	b	825	-	1/1/14/20	6/36/114/115	-
19	XAT	9	303	-	-	4/31/93/93	0/4/4/4

All (1091) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	1	312	CLA	C4B-NB	8.05	1.42	1.35
21	a	842	CLA	C4B-NB	7.78	1.42	1.35
21	4	312	CLA	C4B-NB	7.73	1.42	1.35
21	a	840	CLA	C4B-NB	7.73	1.42	1.35
21	5	314	CLA	C4B-NB	7.72	1.42	1.35
21	b	838	CLA	C4B-NB	7.69	1.42	1.35
21	4	311	CLA	C4B-NB	7.68	1.42	1.35
21	a	818	CLA	C4B-NB	7.68	1.42	1.35
21	a	813	CLA	C4B-NB	7.67	1.42	1.35
21	b	840	CLA	C4B-NB	7.66	1.42	1.35
21	1	309	CLA	C4B-NB	7.66	1.42	1.35
21	f	803	CLA	C4B-NB	7.66	1.42	1.35
21	6	307	CLA	C4B-NB	7.65	1.42	1.35
21	4	315	CLA	C4B-NB	7.64	1.42	1.35
21	6	308	CLA	C4B-NB	7.63	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	a	843	PQN	C3-C2	7.63	1.49	1.35
21	7	311	CLA	C4B-NB	7.63	1.42	1.35
21	6	311	CLA	C4B-NB	7.62	1.42	1.35
21	9	309	CLA	C4B-NB	7.61	1.42	1.35
21	7	310	CLA	C4B-NB	7.61	1.42	1.35
21	b	841	CLA	C4B-NB	7.61	1.42	1.35
21	h	201	CLA	C4B-NB	7.61	1.42	1.35
21	4	307	CLA	C4B-NB	7.60	1.42	1.35
21	b	829	CLA	C4B-NB	7.59	1.42	1.35
21	a	804	CLA	C4B-NB	7.59	1.42	1.35
21	a	825	CLA	C4B-NB	7.59	1.42	1.35
21	b	801	CLA	C4B-NB	7.59	1.42	1.35
21	4	317	CLA	C4B-NB	7.57	1.42	1.35
21	1	305	CLA	C4B-NB	7.57	1.42	1.35
21	8	309	CLA	C4B-NB	7.56	1.41	1.35
21	a	841	CLA	C4B-NB	7.56	1.41	1.35
21	5	311	CLA	C4B-NB	7.55	1.41	1.35
21	9	314	CLA	C4B-NB	7.55	1.41	1.35
21	4	306	CLA	C4B-NB	7.55	1.41	1.35
21	7	307	CLA	C4B-NB	7.55	1.41	1.35
21	a	805	CLA	C4B-NB	7.55	1.41	1.35
21	b	835	CLA	C4B-NB	7.54	1.41	1.35
21	a	820	CLA	C4B-NB	7.54	1.41	1.35
21	4	316	CLA	C4B-NB	7.53	1.41	1.35
21	4	314	CLA	C4B-NB	7.53	1.41	1.35
21	6	309	CLA	C4B-NB	7.53	1.41	1.35
21	a	831	CLA	C4B-NB	7.53	1.41	1.35
21	b	820	CLA	C4B-NB	7.52	1.41	1.35
21	5	306	CLA	C4B-NB	7.52	1.41	1.35
21	4	310	CLA	C4B-NB	7.52	1.41	1.35
21	8	313	CLA	C4B-NB	7.52	1.41	1.35
21	5	316	CLA	C4B-NB	7.51	1.41	1.35
21	b	827	CLA	C4B-NB	7.51	1.41	1.35
21	a	817	CLA	C4B-NB	7.51	1.41	1.35
21	a	808	CLA	C4B-NB	7.50	1.41	1.35
21	9	315	CLA	C4B-NB	7.50	1.41	1.35
21	b	816	CLA	C4B-NB	7.50	1.41	1.35
21	1	308	CLA	C4B-NB	7.50	1.41	1.35
21	5	307	CLA	C4B-NB	7.50	1.41	1.35
21	7	317	CLA	C4B-NB	7.49	1.41	1.35
21	a	810	CLA	C4B-NB	7.49	1.41	1.35
21	j	101	CLA	C4B-NB	7.49	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	1	310	CLA	C4B-NB	7.48	1.41	1.35
21	b	826	CLA	C4B-NB	7.48	1.41	1.35
21	1	307	CLA	C4B-NB	7.48	1.41	1.35
21	9	311	CLA	C4B-NB	7.47	1.41	1.35
21	7	315	CLA	C4B-NB	7.47	1.41	1.35
21	b	837	CLA	C4B-NB	7.47	1.41	1.35
21	b	833	CLA	C4B-NB	7.47	1.41	1.35
21	7	313	CLA	C4B-NB	7.47	1.41	1.35
21	b	822	CLA	C4B-NB	7.47	1.41	1.35
21	4	309	CLA	C4B-NB	7.46	1.41	1.35
21	b	814	CLA	C4B-NB	7.46	1.41	1.35
21	8	312	CLA	C4B-NB	7.46	1.41	1.35
21	1	313	CLA	C4B-NB	7.46	1.41	1.35
21	a	822	CLA	C4B-NB	7.46	1.41	1.35
21	a	834	CLA	C4B-NB	7.46	1.41	1.35
21	5	308	CLA	C4B-NB	7.46	1.41	1.35
21	1	201	CLA	C4B-NB	7.46	1.41	1.35
21	9	316	CLA	C4B-NB	7.46	1.41	1.35
21	4	313	CLA	C4B-NB	7.46	1.41	1.35
21	b	834	CLA	C4B-NB	7.44	1.41	1.35
21	7	306	CLA	C4B-NB	7.44	1.41	1.35
21	a	824	CLA	C4B-NB	7.44	1.41	1.35
21	9	313	CLA	C4B-NB	7.44	1.41	1.35
21	a	827	CLA	C4B-NB	7.43	1.41	1.35
21	7	309	CLA	C4B-NB	7.43	1.41	1.35
21	b	839	CLA	C4B-NB	7.43	1.41	1.35
21	a	836	CLA	C4B-NB	7.43	1.41	1.35
21	5	309	CLA	C4B-NB	7.43	1.41	1.35
21	b	808	CLA	C4B-NB	7.43	1.41	1.35
21	b	803	CLA	C4B-NB	7.42	1.41	1.35
21	f	802	CLA	C4B-NB	7.42	1.41	1.35
21	a	852	CLA	C4B-NB	7.42	1.41	1.35
21	b	828	CLA	C4B-NB	7.42	1.41	1.35
21	6	315	CLA	C4B-NB	7.42	1.41	1.35
21	8	305	CLA	C4B-NB	7.41	1.41	1.35
21	a	829	CLA	C4B-NB	7.41	1.41	1.35
21	b	831	CLA	C4B-NB	7.41	1.41	1.35
21	7	314	CLA	C4B-NB	7.41	1.41	1.35
21	b	806	CLA	C4B-NB	7.41	1.41	1.35
21	b	804	CLA	C4B-NB	7.40	1.41	1.35
21	5	310	CLA	C4B-NB	7.40	1.41	1.35
21	8	310	CLA	C4B-NB	7.40	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	8	311	CLA	C4B-NB	7.39	1.41	1.35
21	b	812	CLA	C4B-NB	7.39	1.41	1.35
21	1	314	CLA	C4B-NB	7.39	1.41	1.35
21	b	832	CLA	C4B-NB	7.38	1.41	1.35
21	8	308	CLA	C4B-NB	7.38	1.41	1.35
21	8	306	CLA	C4B-NB	7.38	1.41	1.35
21	b	818	CLA	C4B-NB	7.37	1.41	1.35
21	b	824	CLA	C4B-NB	7.37	1.41	1.35
21	7	308	CLA	C4B-NB	7.37	1.41	1.35
21	6	310	CLA	C4B-NB	7.37	1.41	1.35
21	a	814	CLA	C4B-NB	7.37	1.41	1.35
21	9	310	CLA	C4B-NB	7.37	1.41	1.35
21	6	312	CLA	C4B-NB	7.36	1.41	1.35
21	a	837	CLA	C4B-NB	7.36	1.41	1.35
21	9	308	CLA	C4B-NB	7.36	1.41	1.35
21	a	821	CLA	C4B-NB	7.36	1.41	1.35
21	h	203	CLA	C4B-NB	7.35	1.41	1.35
21	l	202	CLA	C4B-NB	7.34	1.41	1.35
21	a	812	CLA	C4B-NB	7.33	1.41	1.35
21	a	816	CLA	C4B-NB	7.33	1.41	1.35
21	b	802	CLA	C4B-NB	7.33	1.41	1.35
21	a	833	CLA	C4B-NB	7.33	1.41	1.35
21	8	314	CLA	C4B-NB	7.32	1.41	1.35
21	a	815	CLA	C4B-NB	7.32	1.41	1.35
21	a	839	CLA	C4B-NB	7.32	1.41	1.35
21	9	312	CLA	C4B-NB	7.31	1.41	1.35
21	7	312	CLA	C4B-NB	7.31	1.41	1.35
21	b	836	CLA	C4B-NB	7.31	1.41	1.35
21	a	803	CLA	C4B-NB	7.31	1.41	1.35
21	a	823	CLA	C4B-NB	7.31	1.41	1.35
21	a	856	CLA	C4B-NB	7.31	1.41	1.35
21	5	315	CLA	C4B-NB	7.31	1.41	1.35
21	1	306	CLA	C4B-NB	7.31	1.41	1.35
21	a	802	CLA	C4B-NB	7.30	1.41	1.35
26	b	842	PQN	C3-C2	7.29	1.48	1.35
21	a	801	CLA	C4B-NB	7.29	1.41	1.35
21	6	314	CLA	C4B-NB	7.28	1.41	1.35
21	b	817	CLA	C4B-NB	7.28	1.41	1.35
21	b	807	CLA	C4B-NB	7.28	1.41	1.35
21	a	830	CLA	C4B-NB	7.28	1.41	1.35
21	6	316	CLA	C4B-NB	7.27	1.41	1.35
21	b	811	CLA	C4B-NB	7.26	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	b	825	CLA	C4B-NB	7.26	1.41	1.35
21	b	810	CLA	C4B-NB	7.26	1.41	1.35
21	b	813	CLA	C4B-NB	7.26	1.41	1.35
21	b	823	CLA	C4B-NB	7.25	1.41	1.35
21	b	815	CLA	C4B-NB	7.25	1.41	1.35
21	1	311	CLA	C4B-NB	7.24	1.41	1.35
21	l	203	CLA	C4B-NB	7.24	1.41	1.35
21	b	819	CLA	C4B-NB	7.24	1.41	1.35
21	a	838	CLA	C4B-NB	7.23	1.41	1.35
21	6	313	CLA	C4B-NB	7.23	1.41	1.35
21	a	832	CLA	C4B-NB	7.23	1.41	1.35
21	5	312	CLA	C4B-NB	7.22	1.41	1.35
21	b	821	CLA	C4B-NB	7.22	1.41	1.35
21	a	811	CLA	C4B-NB	7.22	1.41	1.35
21	a	807	CLA	C4B-NB	7.21	1.41	1.35
21	a	819	CLA	C4B-NB	7.20	1.41	1.35
21	a	844	CLA	C4B-NB	7.20	1.41	1.35
21	b	809	CLA	C4B-NB	7.19	1.41	1.35
21	8	307	CLA	C4B-NB	7.19	1.41	1.35
21	b	830	CLA	C4B-NB	7.19	1.41	1.35
21	5	313	CLA	C4B-NB	7.18	1.41	1.35
21	4	308	CLA	C4B-NB	7.18	1.41	1.35
21	a	809	CLA	C4B-NB	7.15	1.41	1.35
21	a	835	CLA	C4B-NB	7.15	1.41	1.35
21	a	826	CLA	C4B-NB	7.15	1.41	1.35
21	7	316	CLA	C4B-NB	7.13	1.41	1.35
21	b	805	CLA	C4B-NB	7.11	1.41	1.35
21	a	828	CLA	C4B-NB	7.05	1.41	1.35
21	a	806	CLA	C4B-NB	6.18	1.40	1.35
26	b	842	PQN	C10-C5	4.89	1.48	1.40
26	a	843	PQN	C10-C5	4.75	1.48	1.40
22	5	317	SQD	O8-S	4.66	1.64	1.47
23	h	202	A1L1F	O7-C54	4.61	1.45	1.35
23	9	302	A1L1F	O7-C54	4.61	1.45	1.35
22	1	315	SQD	O8-S	4.55	1.63	1.47
23	8	304	A1L1F	O7-C54	4.51	1.45	1.35
23	1	304	A1L1F	O7-C54	4.50	1.45	1.35
23	6	304	A1L1F	O7-C54	4.50	1.45	1.35
23	6	301	A1L1F	O7-C54	4.45	1.45	1.35
22	1	315	SQD	O48-C23	4.32	1.46	1.33
25	8	315	DGD	O1G-C1A	4.28	1.45	1.33
29	a	855	LMG	O8-C28	4.26	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	5	317	SQD	O48-C23	4.23	1.45	1.33
22	1	315	SQD	O47-C7	4.19	1.46	1.34
23	h	202	A1L1F	O13-C45	4.19	1.45	1.33
23	1	304	A1L1F	O13-C45	4.19	1.45	1.33
29	a	855	LMG	O7-C10	4.13	1.46	1.34
23	6	304	A1L1F	O13-C45	4.12	1.45	1.33
29	j	103	LMG	O8-C28	4.12	1.45	1.33
23	6	301	A1L1F	O13-C45	4.11	1.45	1.33
21	6	315	CLA	C1D-ND	4.11	1.42	1.37
23	8	304	A1L1F	O13-C45	4.10	1.45	1.33
21	a	806	CLA	C4D-ND	-4.08	1.32	1.37
22	5	317	SQD	O47-C7	4.06	1.45	1.34
21	8	313	CLA	C1D-ND	4.03	1.42	1.37
25	4	318	DGD	O1G-C1A	4.03	1.45	1.33
25	b	851	DGD	O2G-C1B	4.02	1.45	1.34
21	h	201	CLA	C1D-ND	4.01	1.42	1.37
21	6	308	CLA	C1D-ND	4.01	1.42	1.37
21	9	313	CLA	C1D-ND	3.98	1.42	1.37
21	5	309	CLA	C1D-ND	3.98	1.42	1.37
21	a	828	CLA	C1D-ND	3.98	1.42	1.37
25	b	851	DGD	O1G-C1A	3.98	1.45	1.33
21	8	309	CLA	C1D-ND	3.97	1.42	1.37
21	7	310	CLA	C1D-ND	3.97	1.42	1.37
21	a	804	CLA	C1D-ND	3.95	1.42	1.37
21	b	818	CLA	C1D-ND	3.94	1.42	1.37
23	9	302	A1L1F	O13-C45	3.94	1.44	1.33
21	9	312	CLA	C1D-ND	3.93	1.42	1.37
21	l	203	CLA	C1D-ND	3.93	1.42	1.37
21	8	314	CLA	C1D-ND	3.92	1.42	1.37
21	6	316	CLA	C1D-ND	3.91	1.42	1.37
21	1	311	CLA	C1D-ND	3.91	1.42	1.37
21	b	820	CLA	C1D-ND	3.91	1.42	1.37
29	j	103	LMG	O7-C10	3.91	1.45	1.34
21	a	811	CLA	C1D-ND	3.89	1.42	1.37
21	4	316	CLA	C1D-ND	3.89	1.42	1.37
21	a	835	CLA	C1D-ND	3.89	1.42	1.37
21	9	310	CLA	C1D-ND	3.89	1.42	1.37
21	7	306	CLA	C1D-ND	3.89	1.42	1.37
21	8	308	CLA	C1D-ND	3.89	1.42	1.37
21	b	806	CLA	C1D-ND	3.89	1.42	1.37
21	1	312	CLA	C1D-ND	3.88	1.42	1.37
21	b	824	CLA	C1D-ND	3.88	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	9	314	CLA	C1D-ND	3.88	1.42	1.37
21	a	839	CLA	C1D-ND	3.88	1.42	1.37
21	a	838	CLA	C1D-ND	3.88	1.42	1.37
21	a	840	CLA	C1D-ND	3.88	1.42	1.37
21	1	309	CLA	C1D-ND	3.87	1.42	1.37
21	9	316	CLA	C1D-ND	3.87	1.42	1.37
21	4	314	CLA	C1D-ND	3.87	1.42	1.37
21	a	837	CLA	C1D-ND	3.87	1.42	1.37
21	4	306	CLA	C1D-ND	3.87	1.42	1.37
21	6	309	CLA	C1D-ND	3.86	1.42	1.37
21	a	815	CLA	C1D-ND	3.86	1.42	1.37
21	7	307	CLA	C1D-ND	3.86	1.42	1.37
21	8	305	CLA	C1D-ND	3.86	1.42	1.37
21	b	835	CLA	C1D-ND	3.86	1.42	1.37
21	1	310	CLA	C1D-ND	3.86	1.42	1.37
21	8	307	CLA	C1D-ND	3.86	1.42	1.37
21	a	831	CLA	C1D-ND	3.86	1.42	1.37
21	5	315	CLA	C1D-ND	3.86	1.42	1.37
21	7	315	CLA	C1D-ND	3.86	1.42	1.37
21	1	314	CLA	C1D-ND	3.86	1.42	1.37
21	a	817	CLA	C1D-ND	3.86	1.42	1.37
21	5	314	CLA	C1D-ND	3.86	1.42	1.37
21	7	311	CLA	C1D-ND	3.86	1.42	1.37
21	8	310	CLA	C1D-ND	3.85	1.42	1.37
21	a	844	CLA	C1D-ND	3.85	1.42	1.37
21	5	306	CLA	C1D-ND	3.85	1.42	1.37
21	b	821	CLA	C1D-ND	3.85	1.42	1.37
21	b	840	CLA	C1D-ND	3.85	1.42	1.37
21	b	828	CLA	C1D-ND	3.85	1.42	1.37
21	j	101	CLA	C1D-ND	3.85	1.42	1.37
21	4	315	CLA	C1D-ND	3.84	1.42	1.37
21	4	307	CLA	C1D-ND	3.84	1.42	1.37
23	8	304	A1L1F	C57-C2	-3.84	1.25	1.32
23	h	202	A1L1F	C57-C2	-3.84	1.25	1.32
20	1	301	A1L1G	C38-C39	3.84	1.40	1.35
21	b	836	CLA	C1D-ND	3.84	1.42	1.37
21	7	308	CLA	C1D-ND	3.84	1.42	1.37
21	7	314	CLA	C1D-ND	3.84	1.42	1.37
21	a	814	CLA	C1D-ND	3.84	1.42	1.37
21	9	315	CLA	C1D-ND	3.83	1.42	1.37
21	6	314	CLA	C1D-ND	3.83	1.42	1.37
21	a	825	CLA	C1D-ND	3.83	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	6	311	CLA	C1D-ND	3.82	1.42	1.37
21	f	802	CLA	C1D-ND	3.82	1.42	1.37
21	b	826	CLA	C1D-ND	3.82	1.42	1.37
21	4	312	CLA	C1D-ND	3.82	1.42	1.37
21	a	809	CLA	C1D-ND	3.82	1.42	1.37
23	9	302	A1L1F	C57-C2	-3.82	1.25	1.32
21	5	310	CLA	C1D-ND	3.81	1.42	1.37
21	8	306	CLA	C1D-ND	3.81	1.42	1.37
21	b	839	CLA	C1D-ND	3.81	1.42	1.37
21	b	816	CLA	C1D-ND	3.81	1.42	1.37
21	b	841	CLA	C1D-ND	3.81	1.42	1.37
21	a	813	CLA	C1D-ND	3.81	1.42	1.37
21	b	812	CLA	C1D-ND	3.81	1.42	1.37
21	a	829	CLA	C1D-ND	3.81	1.42	1.37
21	5	312	CLA	C1D-ND	3.81	1.42	1.37
21	6	313	CLA	C1D-ND	3.81	1.42	1.37
21	b	813	CLA	C1D-ND	3.81	1.42	1.37
25	4	318	DGD	O2G-C1B	3.80	1.45	1.34
21	7	312	CLA	C1D-ND	3.80	1.42	1.37
21	7	317	CLA	C1D-ND	3.80	1.42	1.37
21	4	310	CLA	C1D-ND	3.80	1.42	1.37
21	7	313	CLA	C1D-ND	3.80	1.42	1.37
21	l	201	CLA	C1D-ND	3.80	1.42	1.37
21	a	819	CLA	C1D-ND	3.80	1.42	1.37
21	b	831	CLA	C1D-ND	3.80	1.42	1.37
21	b	804	CLA	C1D-ND	3.79	1.42	1.37
21	1	307	CLA	C1D-ND	3.79	1.42	1.37
21	a	824	CLA	C1D-ND	3.78	1.42	1.37
21	4	317	CLA	C1D-ND	3.78	1.42	1.37
21	a	816	CLA	C1D-ND	3.78	1.42	1.37
23	6	304	A1L1F	C57-C2	-3.78	1.25	1.32
21	6	307	CLA	C1D-ND	3.78	1.42	1.37
21	b	810	CLA	C1D-ND	3.78	1.42	1.37
21	b	833	CLA	C1D-ND	3.78	1.42	1.37
20	9	301	A1L1G	C35-C34	3.78	1.40	1.35
21	a	807	CLA	C1D-ND	3.77	1.42	1.37
21	5	307	CLA	C1D-ND	3.77	1.42	1.37
21	a	826	CLA	C1D-ND	3.77	1.42	1.37
21	a	830	CLA	C1D-ND	3.77	1.42	1.37
21	b	829	CLA	C1D-ND	3.76	1.42	1.37
21	a	818	CLA	C1D-ND	3.76	1.42	1.37
21	8	311	CLA	C1D-ND	3.76	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	5	311	CLA	C1D-ND	3.75	1.42	1.37
21	1	306	CLA	C1D-ND	3.75	1.42	1.37
20	1	301	A1L1G	C35-C34	3.75	1.40	1.35
21	1	305	CLA	C1D-ND	3.74	1.42	1.37
21	b	838	CLA	C1D-ND	3.74	1.42	1.37
21	b	814	CLA	C1D-ND	3.74	1.42	1.37
21	7	316	CLA	C1D-ND	3.74	1.42	1.37
21	4	308	CLA	C1D-ND	3.74	1.42	1.37
21	b	834	CLA	C1D-ND	3.74	1.42	1.37
21	5	313	CLA	C1D-ND	3.74	1.42	1.37
21	a	812	CLA	C1D-ND	3.74	1.42	1.37
21	a	820	CLA	C1D-ND	3.74	1.42	1.37
21	b	819	CLA	C1D-ND	3.73	1.42	1.37
21	a	852	CLA	C1D-ND	3.73	1.42	1.37
21	4	309	CLA	C1D-ND	3.73	1.42	1.37
21	a	823	CLA	C1D-ND	3.73	1.42	1.37
21	9	309	CLA	C1D-ND	3.73	1.42	1.37
25	8	315	DGD	O2G-C1B	3.72	1.44	1.34
21	a	822	CLA	C1D-ND	3.72	1.42	1.37
21	f	803	CLA	C1D-ND	3.72	1.42	1.37
21	6	310	CLA	C1D-ND	3.72	1.42	1.37
21	9	311	CLA	C1D-ND	3.72	1.42	1.37
21	a	856	CLA	C1D-ND	3.72	1.42	1.37
21	b	807	CLA	C1D-ND	3.72	1.42	1.37
21	a	836	CLA	C1D-ND	3.71	1.42	1.37
21	a	834	CLA	C1D-ND	3.71	1.42	1.37
27	m	102	BCR	C1-C6	-3.71	1.48	1.53
21	6	312	CLA	C1D-ND	3.71	1.42	1.37
21	b	817	CLA	C1D-ND	3.71	1.42	1.37
23	6	301	A1L1F	C57-C2	-3.71	1.25	1.32
21	a	842	CLA	C1D-ND	3.71	1.42	1.37
21	4	313	CLA	C1D-ND	3.70	1.42	1.37
21	b	801	CLA	C1D-ND	3.70	1.42	1.37
21	b	827	CLA	C1D-ND	3.70	1.42	1.37
21	b	837	CLA	C1D-ND	3.70	1.42	1.37
21	1	313	CLA	C1D-ND	3.69	1.42	1.37
21	a	805	CLA	C1D-ND	3.69	1.42	1.37
21	a	841	CLA	C1D-ND	3.69	1.42	1.37
21	h	203	CLA	C1D-ND	3.68	1.42	1.37
21	b	815	CLA	C1D-ND	3.68	1.42	1.37
21	b	822	CLA	C1D-ND	3.68	1.42	1.37
21	a	827	CLA	C1D-ND	3.68	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	a	808	CLA	C1D-ND	3.68	1.42	1.37
21	l	202	CLA	C1D-ND	3.67	1.42	1.37
21	a	832	CLA	C1D-ND	3.67	1.42	1.37
20	7	302	A1L1G	C38-C39	3.67	1.40	1.35
20	9	301	A1L1G	C38-C39	3.66	1.40	1.35
21	a	803	CLA	C1D-ND	3.66	1.42	1.37
21	7	309	CLA	C1D-ND	3.66	1.42	1.37
21	a	810	CLA	C1D-ND	3.66	1.42	1.37
20	9	306	A1L1G	C35-C34	3.66	1.40	1.35
21	9	308	CLA	C1D-ND	3.66	1.42	1.37
21	b	832	CLA	C1D-ND	3.65	1.42	1.37
21	a	821	CLA	C1D-ND	3.65	1.42	1.37
21	b	825	CLA	C1D-ND	3.64	1.42	1.37
21	b	805	CLA	C1D-ND	3.63	1.42	1.37
21	b	808	CLA	C1D-ND	3.62	1.42	1.37
21	1	308	CLA	C1D-ND	3.61	1.42	1.37
21	8	312	CLA	C1D-ND	3.61	1.42	1.37
21	5	308	CLA	C1D-ND	3.60	1.42	1.37
21	5	316	CLA	C1D-ND	3.60	1.42	1.37
21	a	801	CLA	C1D-ND	3.60	1.42	1.37
21	b	809	CLA	C1D-ND	3.59	1.42	1.37
21	b	811	CLA	C1D-ND	3.58	1.42	1.37
21	b	802	CLA	C1D-ND	3.58	1.42	1.37
23	1	304	A1L1F	C57-C2	-3.56	1.26	1.32
21	b	830	CLA	C1D-ND	3.55	1.42	1.37
21	4	311	CLA	C1D-ND	3.54	1.42	1.37
21	b	823	CLA	C1D-ND	3.54	1.42	1.37
20	5	304	A1L1G	C38-C39	3.53	1.40	1.35
21	a	802	CLA	C1D-ND	3.52	1.42	1.37
20	5	304	A1L1G	C35-C34	3.52	1.40	1.35
21	b	811	CLA	CAB-C3B	-3.51	1.44	1.51
21	a	833	CLA	C1D-ND	3.46	1.42	1.37
20	9	306	A1L1G	C38-C39	3.44	1.40	1.35
20	7	302	A1L1G	C35-C34	3.41	1.40	1.35
21	4	313	CLA	CHC-C1C	3.34	1.43	1.35
21	9	316	CLA	CHC-C1C	3.30	1.43	1.35
21	a	822	CLA	CHC-C1C	3.30	1.43	1.35
21	7	313	CLA	CHC-C1C	3.29	1.43	1.35
21	b	816	CLA	CHC-C1C	3.28	1.43	1.35
21	b	839	CLA	CHC-C1C	3.25	1.43	1.35
21	b	803	CLA	C1D-ND	3.25	1.41	1.37
21	4	312	CLA	CHC-C1C	3.25	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	a	819	CLA	CHC-C1C	3.25	1.43	1.35
21	a	802	CLA	CHC-C1C	3.25	1.43	1.35
21	b	814	CLA	CHC-C1C	3.25	1.43	1.35
21	9	308	CLA	CHC-C1C	3.24	1.43	1.35
21	a	827	CLA	CHC-C1C	3.24	1.43	1.35
21	a	852	CLA	CHC-C1C	3.24	1.43	1.35
21	9	311	CLA	CHC-C1C	3.24	1.43	1.35
21	b	811	CLA	CHC-C1C	3.24	1.43	1.35
21	6	311	CLA	CHC-C1C	3.23	1.43	1.35
21	b	805	CLA	CHC-C1C	3.23	1.43	1.35
21	f	803	CLA	CHC-C1C	3.22	1.43	1.35
21	8	313	CLA	CHC-C1C	3.22	1.43	1.35
21	6	308	CLA	CHC-C1C	3.22	1.43	1.35
21	8	312	CLA	CHC-C1C	3.22	1.43	1.35
21	7	306	CLA	CHC-C1C	3.21	1.43	1.35
21	a	823	CLA	CHC-C1C	3.21	1.43	1.35
21	5	312	CLA	CHC-C1C	3.21	1.43	1.35
21	b	834	CLA	CHC-C1C	3.21	1.43	1.35
21	5	307	CLA	CHC-C1C	3.20	1.43	1.35
21	8	311	CLA	CHC-C1C	3.20	1.43	1.35
21	8	306	CLA	CHC-C1C	3.20	1.43	1.35
21	a	820	CLA	CHC-C1C	3.20	1.43	1.35
21	a	837	CLA	CHC-C1C	3.20	1.43	1.35
21	7	311	CLA	CHC-C1C	3.20	1.43	1.35
21	7	314	CLA	CHC-C1C	3.20	1.43	1.35
21	6	313	CLA	CHC-C1C	3.20	1.43	1.35
21	b	804	CLA	CHC-C1C	3.20	1.43	1.35
21	a	804	CLA	CHC-C1C	3.20	1.43	1.35
21	b	828	CLA	CHC-C1C	3.20	1.43	1.35
21	1	308	CLA	CHC-C1C	3.20	1.43	1.35
21	a	832	CLA	CHC-C1C	3.20	1.43	1.35
21	a	813	CLA	CHC-C1C	3.20	1.43	1.35
21	a	842	CLA	CHC-C1C	3.19	1.43	1.35
21	a	818	CLA	CHC-C1C	3.19	1.43	1.35
21	b	813	CLA	CHC-C1C	3.19	1.43	1.35
21	a	839	CLA	CHC-C1C	3.19	1.43	1.35
21	b	832	CLA	CHC-C1C	3.19	1.43	1.35
21	b	836	CLA	CHC-C1C	3.19	1.43	1.35
21	8	307	CLA	C4D-ND	-3.19	1.33	1.37
21	1	307	CLA	CHC-C1C	3.19	1.43	1.35
21	5	316	CLA	CHC-C1C	3.18	1.43	1.35
21	1	310	CLA	CHC-C1C	3.18	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	a	826	CLA	CHC-C1C	3.18	1.43	1.35
21	b	825	CLA	CHC-C1C	3.18	1.43	1.35
21	4	310	CLA	CHC-C1C	3.18	1.43	1.35
21	b	815	CLA	CHC-C1C	3.18	1.43	1.35
21	4	315	CLA	CHC-C1C	3.18	1.43	1.35
21	4	314	CLA	CHC-C1C	3.18	1.43	1.35
21	6	314	CLA	CHC-C1C	3.18	1.43	1.35
21	b	822	CLA	CHC-C1C	3.18	1.43	1.35
21	b	831	CLA	CHC-C1C	3.18	1.43	1.35
21	5	313	CLA	CHC-C1C	3.18	1.43	1.35
21	8	305	CLA	CHC-C1C	3.18	1.43	1.35
21	9	313	CLA	CHC-C1C	3.17	1.43	1.35
21	1	312	CLA	CHC-C1C	3.17	1.43	1.35
21	9	314	CLA	CHC-C1C	3.17	1.43	1.35
21	a	841	CLA	CHC-C1C	3.17	1.43	1.35
21	a	844	CLA	CHC-C1C	3.17	1.43	1.35
21	8	314	CLA	CHC-C1C	3.17	1.43	1.35
21	7	308	CLA	CHC-C1C	3.17	1.43	1.35
21	8	309	CLA	CHC-C1C	3.17	1.43	1.35
21	a	824	CLA	CHC-C1C	3.17	1.43	1.35
21	b	838	CLA	CHC-C1C	3.17	1.43	1.35
21	5	309	CLA	CHC-C1C	3.17	1.43	1.35
21	b	837	CLA	CHC-C1C	3.17	1.43	1.35
21	5	311	CLA	CHC-C1C	3.17	1.43	1.35
21	9	312	CLA	CHC-C1C	3.17	1.43	1.35
21	7	317	CLA	CHC-C1C	3.17	1.43	1.35
21	a	856	CLA	CHC-C1C	3.16	1.43	1.35
21	a	809	CLA	CHC-C1C	3.16	1.43	1.35
21	b	827	CLA	CHC-C1C	3.16	1.43	1.35
21	b	812	CLA	CHC-C1C	3.16	1.43	1.35
21	1	314	CLA	CHC-C1C	3.16	1.43	1.35
21	b	820	CLA	CHC-C1C	3.16	1.43	1.35
21	a	817	CLA	CHC-C1C	3.16	1.43	1.35
21	b	806	CLA	CHC-C1C	3.16	1.43	1.35
21	a	816	CLA	CHC-C1C	3.16	1.43	1.35
21	l	203	CLA	CHC-C1C	3.16	1.43	1.35
21	a	828	CLA	CHC-C1C	3.16	1.43	1.35
21	h	203	CLA	CHC-C1C	3.16	1.43	1.35
21	b	841	CLA	CHC-C1C	3.16	1.43	1.35
21	7	312	CLA	CHC-C1C	3.16	1.43	1.35
21	7	307	CLA	CHC-C1C	3.15	1.43	1.35
21	a	828	CLA	C4D-ND	-3.15	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	5	315	CLA	CHC-C1C	3.15	1.43	1.35
21	a	836	CLA	CHC-C1C	3.15	1.43	1.35
21	f	802	CLA	CHC-C1C	3.15	1.43	1.35
21	a	814	CLA	CHC-C1C	3.15	1.43	1.35
21	a	808	CLA	CHC-C1C	3.15	1.43	1.35
21	a	834	CLA	CHC-C1C	3.15	1.43	1.35
21	a	827	CLA	C4D-ND	-3.15	1.33	1.37
21	a	833	CLA	CHC-C1C	3.15	1.43	1.35
21	5	314	CLA	CHC-C1C	3.15	1.43	1.35
21	9	315	CLA	CHC-C1C	3.15	1.43	1.35
21	9	309	CLA	CHC-C1C	3.15	1.43	1.35
21	4	317	CLA	CHC-C1C	3.15	1.43	1.35
21	b	808	CLA	CHC-C1C	3.15	1.43	1.35
21	b	802	CLA	CHC-C1C	3.15	1.43	1.35
21	b	830	CLA	CHC-C1C	3.15	1.43	1.35
21	h	201	CLA	CHC-C1C	3.15	1.43	1.35
21	a	805	CLA	CHC-C1C	3.14	1.43	1.35
21	4	308	CLA	CHC-C1C	3.14	1.43	1.35
21	1	305	CLA	CHC-C1C	3.14	1.43	1.35
21	b	817	CLA	C4D-ND	-3.14	1.33	1.37
21	5	310	CLA	CHC-C1C	3.14	1.43	1.35
21	4	311	CLA	CHC-C1C	3.14	1.43	1.35
21	b	817	CLA	CHC-C1C	3.14	1.43	1.35
21	7	315	CLA	CHC-C1C	3.14	1.43	1.35
21	1	309	CLA	CHC-C1C	3.14	1.43	1.35
21	a	803	CLA	CHC-C1C	3.14	1.43	1.35
21	6	309	CLA	CHC-C1C	3.14	1.43	1.35
21	b	823	CLA	CHC-C1C	3.14	1.43	1.35
21	l	201	CLA	CHC-C1C	3.14	1.43	1.35
21	4	308	CLA	C4D-ND	-3.13	1.33	1.37
21	9	310	CLA	CHC-C1C	3.13	1.43	1.35
21	5	306	CLA	CHC-C1C	3.13	1.43	1.35
21	8	310	CLA	CHC-C1C	3.13	1.43	1.35
21	a	815	CLA	CHC-C1C	3.13	1.43	1.35
21	a	835	CLA	CHC-C1C	3.13	1.43	1.35
21	a	812	CLA	CHC-C1C	3.13	1.43	1.35
21	6	316	CLA	CHC-C1C	3.13	1.43	1.35
21	b	833	CLA	CHC-C1C	3.13	1.43	1.35
21	a	829	CLA	CHC-C1C	3.12	1.43	1.35
21	l	202	CLA	CHC-C1C	3.12	1.43	1.35
21	b	830	CLA	C4D-ND	-3.12	1.33	1.37
21	b	803	CLA	CHC-C1C	3.12	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	a	810	CLA	CHC-C1C	3.12	1.43	1.35
21	a	811	CLA	CHC-C1C	3.12	1.43	1.35
21	5	308	CLA	C4D-ND	-3.12	1.33	1.37
21	8	307	CLA	CHC-C1C	3.12	1.43	1.35
21	b	822	CLA	C4D-ND	-3.12	1.33	1.37
21	4	309	CLA	CHC-C1C	3.11	1.43	1.35
21	7	310	CLA	CHC-C1C	3.11	1.42	1.35
21	1	311	CLA	CHC-C1C	3.11	1.42	1.35
21	b	824	CLA	CHC-C1C	3.11	1.42	1.35
21	a	840	CLA	CHC-C1C	3.11	1.42	1.35
21	1	311	CLA	C4D-ND	-3.11	1.33	1.37
21	6	310	CLA	CHC-C1C	3.11	1.42	1.35
21	b	821	CLA	CHC-C1C	3.11	1.42	1.35
27	m	102	BCR	C30-C25	-3.11	1.49	1.53
21	6	307	CLA	CHC-C1C	3.10	1.42	1.35
21	1	306	CLA	CHC-C1C	3.10	1.42	1.35
21	b	835	CLA	CHC-C1C	3.10	1.42	1.35
21	5	308	CLA	CHC-C1C	3.10	1.42	1.35
21	a	821	CLA	CHC-C1C	3.10	1.42	1.35
21	h	203	CLA	C4D-ND	-3.10	1.33	1.37
21	1	313	CLA	CHC-C1C	3.10	1.42	1.35
21	6	313	CLA	C4D-ND	-3.10	1.33	1.37
21	a	838	CLA	CHC-C1C	3.10	1.42	1.35
21	l	202	CLA	C4D-ND	-3.10	1.33	1.37
21	a	830	CLA	CHC-C1C	3.09	1.42	1.35
21	4	307	CLA	CHC-C1C	3.09	1.42	1.35
21	7	309	CLA	CHC-C1C	3.09	1.42	1.35
21	b	807	CLA	CHC-C1C	3.09	1.42	1.35
21	b	810	CLA	CHC-C1C	3.09	1.42	1.35
20	9	301	A1L1G	C42-C44	3.09	1.39	1.35
21	4	316	CLA	CHC-C1C	3.08	1.42	1.35
21	4	306	CLA	CHC-C1C	3.08	1.42	1.35
21	b	826	CLA	CHC-C1C	3.08	1.42	1.35
21	a	825	CLA	CHC-C1C	3.08	1.42	1.35
21	b	801	CLA	CHC-C1C	3.08	1.42	1.35
21	5	313	CLA	C4D-ND	-3.08	1.33	1.37
21	a	831	CLA	C4D-ND	-3.07	1.33	1.37
21	a	816	CLA	C4D-ND	-3.07	1.33	1.37
21	a	803	CLA	C4D-ND	-3.06	1.33	1.37
21	8	308	CLA	CHC-C1C	3.06	1.42	1.35
21	b	832	CLA	C4D-ND	-3.06	1.33	1.37
21	b	819	CLA	CHC-C1C	3.06	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	6	315	CLA	CHC-C1C	3.05	1.42	1.35
21	a	807	CLA	CHC-C1C	3.05	1.42	1.35
21	7	316	CLA	CHC-C1C	3.05	1.42	1.35
21	b	810	CLA	C4D-ND	-3.05	1.33	1.37
21	b	825	CLA	C4D-ND	-3.05	1.33	1.37
21	b	829	CLA	CMB-C2B	-3.05	1.45	1.51
21	j	101	CLA	CHC-C1C	3.04	1.42	1.35
21	b	836	CLA	C4D-ND	-3.04	1.33	1.37
21	9	316	CLA	C4D-ND	-3.04	1.33	1.37
21	a	801	CLA	CHC-C1C	3.04	1.42	1.35
21	8	312	CLA	C4D-ND	-3.03	1.33	1.37
21	a	830	CLA	C4D-ND	-3.03	1.33	1.37
21	b	839	CLA	C4D-ND	-3.03	1.33	1.37
21	b	841	CLA	C4D-ND	-3.03	1.33	1.37
21	a	831	CLA	CMB-C2B	-3.03	1.45	1.51
21	9	311	CLA	C4D-ND	-3.03	1.33	1.37
21	a	852	CLA	C4D-ND	-3.03	1.33	1.37
21	b	807	CLA	C4D-ND	-3.03	1.33	1.37
21	a	824	CLA	C4D-ND	-3.02	1.33	1.37
21	b	818	CLA	CHC-C1C	3.02	1.42	1.35
21	6	310	CLA	C4D-ND	-3.02	1.33	1.37
21	9	308	CLA	C4D-ND	-3.02	1.33	1.37
21	b	837	CLA	C4D-ND	-3.02	1.33	1.37
21	b	806	CLA	C4D-ND	-3.01	1.33	1.37
21	a	808	CLA	C4D-ND	-3.01	1.33	1.37
21	a	819	CLA	C4D-ND	-3.01	1.33	1.37
21	a	801	CLA	C4D-ND	-3.01	1.33	1.37
21	b	819	CLA	C4D-ND	-3.01	1.33	1.37
21	l	203	CLA	C4D-ND	-3.01	1.33	1.37
21	7	309	CLA	C4D-ND	-3.00	1.33	1.37
21	b	809	CLA	CHC-C1C	3.00	1.42	1.35
21	1	310	CLA	C4D-ND	-3.00	1.33	1.37
21	a	856	CLA	C4D-ND	-3.00	1.33	1.37
21	4	310	CLA	C4D-ND	-3.00	1.33	1.37
21	b	813	CLA	C4D-ND	-2.99	1.33	1.37
21	b	833	CLA	C4D-ND	-2.99	1.33	1.37
21	b	820	CLA	C4D-ND	-2.99	1.33	1.37
21	4	313	CLA	C4D-ND	-2.99	1.33	1.37
21	6	312	CLA	CHC-C1C	2.99	1.42	1.35
21	8	311	CLA	C4D-ND	-2.98	1.33	1.37
21	l	201	CLA	C4D-ND	-2.98	1.33	1.37
20	7	302	A1L1G	C42-C44	2.98	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	4	309	CLA	C4D-ND	-2.98	1.33	1.37
21	a	829	CLA	C4D-ND	-2.98	1.33	1.37
21	4	312	CLA	C4D-ND	-2.97	1.33	1.37
21	7	311	CLA	C4D-ND	-2.97	1.33	1.37
21	a	806	CLA	CHC-C1C	2.97	1.42	1.35
21	5	314	CLA	C4D-ND	-2.97	1.33	1.37
21	b	829	CLA	CHC-C1C	2.97	1.42	1.35
21	9	310	CLA	C4D-ND	-2.97	1.33	1.37
21	b	826	CLA	C4D-ND	-2.97	1.33	1.37
21	b	816	CLA	C4D-ND	-2.96	1.33	1.37
21	9	315	CLA	C4D-ND	-2.96	1.33	1.37
21	5	312	CLA	C4D-ND	-2.96	1.33	1.37
21	a	805	CLA	C4D-ND	-2.96	1.33	1.37
22	5	317	SQD	C6-S	-2.96	1.66	1.77
21	7	312	CLA	C4D-ND	-2.96	1.33	1.37
21	a	807	CLA	C4D-ND	-2.95	1.33	1.37
21	b	828	CLA	C4D-ND	-2.95	1.33	1.37
21	b	811	CLA	C4D-ND	-2.95	1.33	1.37
21	8	306	CLA	C4D-ND	-2.95	1.33	1.37
21	a	831	CLA	CHC-C1C	2.95	1.42	1.35
21	9	309	CLA	C4D-ND	-2.95	1.33	1.37
21	7	313	CLA	C4D-ND	-2.95	1.33	1.37
21	1	308	CLA	C4D-ND	-2.94	1.33	1.37
21	9	313	CLA	C4D-ND	-2.94	1.33	1.37
21	b	802	CLA	C4D-ND	-2.93	1.33	1.37
21	4	317	CLA	C4D-ND	-2.93	1.33	1.37
21	a	836	CLA	C4D-ND	-2.92	1.33	1.37
21	8	310	CLA	C4D-ND	-2.92	1.33	1.37
21	1	307	CLA	C4D-ND	-2.92	1.33	1.37
21	b	840	CLA	CHC-C1C	2.92	1.42	1.35
21	a	809	CLA	C4D-ND	-2.92	1.33	1.37
21	a	832	CLA	C4D-ND	-2.92	1.33	1.37
21	5	309	CLA	C4D-ND	-2.91	1.33	1.37
21	1	309	CLA	C4D-ND	-2.91	1.33	1.37
21	a	812	CLA	C4D-ND	-2.91	1.33	1.37
21	4	316	CLA	C4D-ND	-2.91	1.33	1.37
21	5	307	CLA	C4D-ND	-2.91	1.33	1.37
23	9	302	A1L1F	C6-C1	-2.91	1.49	1.54
21	8	309	CLA	C4D-ND	-2.91	1.33	1.37
21	a	839	CLA	C4D-ND	-2.91	1.33	1.37
21	b	815	CLA	C4D-ND	-2.91	1.33	1.37
21	5	310	CLA	C4D-ND	-2.90	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	7	317	CLA	C4D-ND	-2.90	1.33	1.37
21	1	305	CLA	C4D-ND	-2.90	1.33	1.37
21	a	833	CLA	C4D-ND	-2.90	1.33	1.37
21	b	818	CLA	C4D-ND	-2.90	1.33	1.37
21	7	310	CLA	C4D-ND	-2.90	1.33	1.37
21	b	823	CLA	C4D-ND	-2.90	1.33	1.37
21	8	314	CLA	C4D-ND	-2.89	1.33	1.37
21	6	307	CLA	C4D-ND	-2.89	1.33	1.37
21	a	814	CLA	C4D-ND	-2.89	1.33	1.37
21	7	308	CLA	C4D-ND	-2.89	1.33	1.37
21	a	811	CLA	C4D-ND	-2.89	1.33	1.37
21	a	815	CLA	C4D-ND	-2.89	1.33	1.37
21	b	804	CLA	C4D-ND	-2.89	1.33	1.37
21	b	835	CLA	C4D-ND	-2.89	1.33	1.37
21	a	810	CLA	C4D-ND	-2.89	1.33	1.37
21	a	838	CLA	C4D-ND	-2.88	1.33	1.37
21	b	812	CLA	C4D-ND	-2.88	1.33	1.37
21	a	841	CLA	C4D-ND	-2.88	1.33	1.37
21	6	316	CLA	C4D-ND	-2.88	1.33	1.37
21	7	315	CLA	C4D-ND	-2.88	1.33	1.37
22	1	315	SQD	C6-S	-2.88	1.66	1.77
21	8	313	CLA	C4D-ND	-2.88	1.33	1.37
21	a	834	CLA	C4D-ND	-2.88	1.33	1.37
21	b	824	CLA	C4D-ND	-2.88	1.33	1.37
21	a	842	CLA	C4D-ND	-2.88	1.33	1.37
21	a	817	CLA	C4D-ND	-2.88	1.33	1.37
21	a	813	CLA	C4D-ND	-2.88	1.33	1.37
21	7	306	CLA	C4D-ND	-2.87	1.33	1.37
21	a	826	CLA	C4D-ND	-2.87	1.33	1.37
21	a	822	CLA	C4D-ND	-2.87	1.33	1.37
21	f	802	CLA	C4D-ND	-2.87	1.33	1.37
21	4	315	CLA	C4D-ND	-2.87	1.33	1.37
20	1	301	A1L1G	C42-C44	2.87	1.39	1.35
21	a	823	CLA	C4D-ND	-2.86	1.33	1.37
21	b	829	CLA	C4D-ND	-2.86	1.33	1.37
21	6	312	CLA	C4D-ND	-2.86	1.33	1.37
21	b	805	CLA	C4D-ND	-2.86	1.33	1.37
21	9	312	CLA	C4D-ND	-2.86	1.33	1.37
21	4	307	CLA	C4D-ND	-2.86	1.33	1.37
21	1	313	CLA	C4D-ND	-2.86	1.33	1.37
21	a	837	CLA	C4D-ND	-2.86	1.33	1.37
21	b	821	CLA	C4D-ND	-2.86	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	6	309	CLA	C4D-ND	-2.85	1.33	1.37
21	6	315	CLA	C4D-ND	-2.85	1.33	1.37
24	a	845	LHG	C26-C25	-2.85	1.35	1.51
21	a	835	CLA	C4D-ND	-2.85	1.33	1.37
21	b	809	CLA	C4D-ND	-2.85	1.33	1.37
21	5	316	CLA	C4D-ND	-2.84	1.33	1.37
21	1	312	CLA	C4D-ND	-2.84	1.33	1.37
24	m	101	LHG	C26-C25	-2.84	1.35	1.51
21	b	838	CLA	C4D-ND	-2.84	1.33	1.37
21	4	306	CLA	C4D-ND	-2.84	1.33	1.37
21	b	834	CLA	C4D-ND	-2.84	1.33	1.37
21	b	827	CLA	C4D-ND	-2.84	1.33	1.37
21	6	308	CLA	C4D-ND	-2.83	1.33	1.37
21	5	311	CLA	C4D-ND	-2.83	1.33	1.37
21	a	804	CLA	C4D-ND	-2.83	1.33	1.37
21	a	820	CLA	C4D-ND	-2.83	1.33	1.37
21	a	844	CLA	C4D-ND	-2.83	1.33	1.37
21	1	306	CLA	C4D-ND	-2.83	1.33	1.37
21	j	101	CLA	C4D-ND	-2.83	1.33	1.37
21	8	305	CLA	C4D-ND	-2.82	1.33	1.37
21	6	314	CLA	C4D-ND	-2.82	1.33	1.37
21	h	201	CLA	C4D-ND	-2.82	1.33	1.37
21	a	806	CLA	CMB-C2B	-2.82	1.45	1.51
21	a	825	CLA	C4D-ND	-2.81	1.33	1.37
21	b	808	CLA	C4D-ND	-2.81	1.33	1.37
24	b	849	LHG	C26-C25	-2.81	1.35	1.51
21	a	821	CLA	C4D-ND	-2.81	1.33	1.37
24	9	307	LHG	C26-C25	-2.81	1.35	1.51
21	7	314	CLA	C4D-ND	-2.81	1.33	1.37
21	a	802	CLA	C4D-ND	-2.81	1.33	1.37
21	7	307	CLA	C4D-ND	-2.81	1.33	1.37
21	b	814	CLA	C4D-ND	-2.80	1.33	1.37
21	4	314	CLA	C4D-ND	-2.80	1.33	1.37
21	1	314	CLA	C4D-ND	-2.80	1.33	1.37
21	f	803	CLA	C4D-ND	-2.79	1.33	1.37
21	a	818	CLA	C4D-ND	-2.79	1.33	1.37
21	b	840	CLA	C4D-ND	-2.78	1.33	1.37
21	b	801	CLA	C4D-ND	-2.78	1.33	1.37
21	a	840	CLA	C4D-ND	-2.77	1.33	1.37
21	5	315	CLA	C4D-ND	-2.77	1.33	1.37
21	8	308	CLA	C4D-ND	-2.77	1.33	1.37
21	b	819	CLA	CMB-C2B	-2.76	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	6	311	CLA	C4D-ND	-2.75	1.33	1.37
21	b	831	CLA	C4D-ND	-2.74	1.33	1.37
20	9	301	A1L1G	C33-C34	-2.74	1.40	1.45
21	9	314	CLA	C4D-ND	-2.73	1.33	1.37
21	5	306	CLA	C4D-ND	-2.73	1.33	1.37
20	5	304	A1L1G	C42-C44	2.72	1.39	1.35
21	4	311	CLA	C4D-ND	-2.72	1.33	1.37
23	h	202	A1L1F	O15-C20	-2.70	1.42	1.46
23	h	202	A1L1F	C6-C1	-2.69	1.50	1.54
21	a	801	CLA	CMB-C2B	-2.69	1.46	1.51
21	b	801	CLA	CMB-C2B	-2.66	1.46	1.51
21	7	316	CLA	C4D-ND	-2.64	1.34	1.37
21	a	806	CLA	C1D-ND	2.63	1.41	1.37
20	9	306	A1L1G	C33-C34	-2.62	1.40	1.45
21	b	818	CLA	CMB-C2B	-2.61	1.46	1.51
20	5	304	A1L1G	C33-C34	-2.61	1.40	1.45
21	b	803	CLA	C4D-ND	-2.61	1.34	1.37
21	b	840	CLA	CMB-C2B	-2.61	1.46	1.51
21	4	311	CLA	CMB-C2B	-2.59	1.46	1.51
21	a	832	CLA	CMB-C2B	-2.59	1.46	1.51
21	b	817	CLA	CMB-C2B	-2.58	1.46	1.51
21	a	820	CLA	CMB-C2B	-2.58	1.46	1.51
21	b	828	CLA	CMB-C2B	-2.58	1.46	1.51
21	b	830	CLA	CMB-C2B	-2.57	1.46	1.51
21	a	836	CLA	CMB-C2B	-2.57	1.46	1.51
21	8	310	CLA	CMB-C2B	-2.57	1.46	1.51
21	b	835	CLA	CMB-C2B	-2.56	1.46	1.51
21	b	809	CLA	CMB-C2B	-2.56	1.46	1.51
20	5	304	A1L1G	C40-C39	-2.55	1.40	1.45
21	9	309	CLA	CMB-C2B	-2.53	1.46	1.51
21	l	203	CLA	CMB-C2B	-2.53	1.46	1.51
21	6	313	CLA	CMB-C2B	-2.53	1.46	1.51
21	a	808	CLA	CMB-C2B	-2.52	1.46	1.51
23	6	301	A1L1F	O15-C20	-2.52	1.42	1.46
21	a	803	CLA	CMB-C2B	-2.52	1.46	1.51
21	a	802	CLA	CMB-C2B	-2.52	1.46	1.51
21	4	317	CLA	CMB-C2B	-2.52	1.46	1.51
20	9	306	A1L1G	C42-C44	2.51	1.39	1.35
21	b	808	CLA	CMB-C2B	-2.51	1.46	1.51
21	a	822	CLA	CMB-C2B	-2.51	1.46	1.51
19	9	303	XAT	O4-C5	-2.51	1.42	1.46
21	l	202	CLA	CMB-C2B	-2.50	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	5	313	CLA	CMB-C2B	-2.49	1.46	1.51
20	7	302	A1L1G	C33-C34	-2.49	1.40	1.45
21	1	201	CLA	CMB-C2B	-2.49	1.46	1.51
21	7	311	CLA	CMB-C2B	-2.49	1.46	1.51
21	6	311	CLA	CMB-C2B	-2.48	1.46	1.51
21	b	811	CLA	CMB-C2B	-2.48	1.46	1.51
21	b	824	CLA	CMB-C2B	-2.48	1.46	1.51
21	1	305	CLA	CMB-C2B	-2.48	1.46	1.51
21	4	313	CLA	CMB-C2B	-2.47	1.46	1.51
21	b	839	CLA	CMB-C2B	-2.47	1.46	1.51
21	7	315	CLA	CMB-C2B	-2.47	1.46	1.51
21	a	815	CLA	CMB-C2B	-2.47	1.46	1.51
21	a	824	CLA	CMB-C2B	-2.46	1.46	1.51
21	a	818	CLA	CMB-C2B	-2.45	1.46	1.51
21	a	856	CLA	CMB-C2B	-2.45	1.46	1.51
21	8	313	CLA	CMB-C2B	-2.45	1.46	1.51
21	4	310	CLA	CMB-C2B	-2.44	1.46	1.51
21	f	803	CLA	CMB-C2B	-2.44	1.46	1.51
21	7	314	CLA	CMB-C2B	-2.44	1.46	1.51
21	b	825	CLA	CMB-C2B	-2.44	1.46	1.51
21	8	308	CLA	CMB-C2B	-2.44	1.46	1.51
21	a	837	CLA	CMB-C2B	-2.44	1.46	1.51
20	7	302	A1L1G	C40-C39	-2.44	1.40	1.45
20	1	301	A1L1G	C33-C34	-2.44	1.40	1.45
21	1	306	CLA	CMB-C2B	-2.44	1.46	1.51
21	a	806	CLA	CMD-C2D	-2.44	1.45	1.50
21	6	312	CLA	CMB-C2B	-2.43	1.46	1.51
21	a	817	CLA	CMB-C2B	-2.43	1.46	1.51
20	9	306	A1L1G	C40-C39	-2.43	1.40	1.45
21	9	315	CLA	CMB-C2B	-2.43	1.46	1.51
21	j	101	CLA	CMB-C2B	-2.43	1.46	1.51
21	4	312	CLA	CMB-C2B	-2.43	1.46	1.51
21	7	317	CLA	CMB-C2B	-2.42	1.46	1.51
21	a	804	CLA	CMB-C2B	-2.42	1.46	1.51
21	1	310	CLA	CMB-C2B	-2.42	1.46	1.51
21	a	835	CLA	CMB-C2B	-2.42	1.46	1.51
21	8	314	CLA	CMB-C2B	-2.42	1.46	1.51
21	a	841	CLA	CMB-C2B	-2.42	1.46	1.51
21	a	834	CLA	CMB-C2B	-2.42	1.46	1.51
21	5	314	CLA	CMB-C2B	-2.42	1.46	1.51
21	b	822	CLA	CMB-C2B	-2.42	1.46	1.51
21	9	316	CLA	CMB-C2B	-2.42	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	9	311	CLA	CMB-C2B	-2.42	1.46	1.51
21	8	306	CLA	CMB-C2B	-2.41	1.46	1.51
21	7	307	CLA	CMB-C2B	-2.41	1.46	1.51
21	1	313	CLA	CMB-C2B	-2.41	1.46	1.51
21	4	315	CLA	CMB-C2B	-2.41	1.46	1.51
21	1	309	CLA	CMB-C2B	-2.41	1.46	1.51
21	b	812	CLA	CMB-C2B	-2.41	1.46	1.51
21	b	813	CLA	CMB-C2B	-2.40	1.46	1.51
21	1	308	CLA	CMB-C2B	-2.40	1.46	1.51
21	a	819	CLA	CMB-C2B	-2.40	1.46	1.51
21	7	306	CLA	CMB-C2B	-2.40	1.46	1.51
21	6	316	CLA	CMB-C2B	-2.39	1.46	1.51
21	a	806	CLA	CMC-C2C	-2.39	1.45	1.50
21	1	307	CLA	CMB-C2B	-2.39	1.46	1.51
21	a	842	CLA	CMB-C2B	-2.39	1.46	1.51
21	4	316	CLA	CMB-C2B	-2.39	1.46	1.51
21	9	314	CLA	CMB-C2B	-2.39	1.46	1.51
21	a	827	CLA	CMB-C2B	-2.39	1.46	1.51
21	a	838	CLA	CMB-C2B	-2.39	1.46	1.51
21	9	308	CLA	CMB-C2B	-2.39	1.46	1.51
21	7	309	CLA	CMB-C2B	-2.39	1.46	1.51
21	b	838	CLA	CMB-C2B	-2.39	1.46	1.51
21	b	833	CLA	CMB-C2B	-2.39	1.46	1.51
21	6	309	CLA	CMB-C2B	-2.39	1.46	1.51
21	5	316	CLA	CMB-C2B	-2.38	1.46	1.51
21	a	814	CLA	CMB-C2B	-2.38	1.46	1.51
21	a	826	CLA	CMB-C2B	-2.38	1.46	1.51
21	b	806	CLA	CMB-C2B	-2.38	1.46	1.51
21	b	815	CLA	CMB-C2B	-2.38	1.46	1.51
21	b	826	CLA	CMB-C2B	-2.38	1.46	1.51
21	8	312	CLA	CMB-C2B	-2.38	1.46	1.51
21	a	810	CLA	CMB-C2B	-2.38	1.46	1.51
21	4	309	CLA	CMB-C2B	-2.38	1.46	1.51
21	f	802	CLA	CMB-C2B	-2.38	1.46	1.51
21	a	830	CLA	CMC-C2C	-2.38	1.45	1.50
24	b	849	LHG	O8-C6	-2.38	1.39	1.45
21	5	308	CLA	CMB-C2B	-2.38	1.46	1.51
21	b	837	CLA	CMB-C2B	-2.38	1.46	1.51
21	8	305	CLA	CMB-C2B	-2.37	1.46	1.51
21	1	311	CLA	CMB-C2B	-2.37	1.46	1.51
24	a	845	LHG	O8-C6	-2.37	1.39	1.45
21	b	816	CLA	CMB-C2B	-2.37	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	b	804	CLA	CMB-C2B	-2.37	1.46	1.51
21	b	820	CLA	CMB-C2B	-2.37	1.46	1.51
21	1	314	CLA	CMB-C2B	-2.37	1.46	1.51
21	a	801	CLA	CMD-C2D	-2.37	1.45	1.50
21	5	307	CLA	CMB-C2B	-2.37	1.46	1.51
21	b	829	CLA	CMD-C2D	-2.37	1.45	1.50
21	6	315	CLA	CMB-C2B	-2.37	1.46	1.51
21	a	821	CLA	CMB-C2B	-2.37	1.46	1.51
21	5	315	CLA	CMB-C2B	-2.37	1.46	1.51
21	a	813	CLA	CMB-C2B	-2.37	1.46	1.51
21	5	311	CLA	CMB-C2B	-2.37	1.46	1.51
24	b	849	LHG	O8-C23	2.36	1.40	1.33
21	5	310	CLA	CMB-C2B	-2.36	1.46	1.51
24	a	846	LHG	O8-C6	-2.36	1.39	1.45
21	b	827	CLA	CMB-C2B	-2.36	1.46	1.51
24	m	101	LHG	O8-C23	2.36	1.40	1.33
21	5	309	CLA	CMB-C2B	-2.36	1.46	1.51
21	a	812	CLA	CMB-C2B	-2.36	1.46	1.51
21	h	201	CLA	CMB-C2B	-2.36	1.46	1.51
21	9	313	CLA	CMB-C2B	-2.36	1.46	1.51
21	b	834	CLA	CMB-C2B	-2.36	1.46	1.51
21	a	807	CLA	CMB-C2B	-2.36	1.46	1.51
21	b	841	CLA	CMB-C2B	-2.36	1.46	1.51
21	4	306	CLA	CMB-C2B	-2.36	1.46	1.51
21	6	310	CLA	CMB-C2B	-2.35	1.46	1.51
21	a	830	CLA	CMB-C2B	-2.35	1.46	1.51
21	7	312	CLA	CMB-C2B	-2.35	1.46	1.51
21	1	312	CLA	CMB-C2B	-2.35	1.46	1.51
21	4	307	CLA	CMB-C2B	-2.35	1.46	1.51
20	9	301	A1L1G	C29-C30	-2.35	1.40	1.45
21	b	814	CLA	CMB-C2B	-2.35	1.46	1.51
21	a	806	CLA	C3B-CAB	-2.35	1.43	1.47
24	m	101	LHG	O8-C6	-2.35	1.39	1.45
21	b	836	CLA	CMB-C2B	-2.35	1.46	1.51
21	8	307	CLA	CMB-C2B	-2.35	1.46	1.51
21	4	308	CLA	CMB-C2B	-2.35	1.46	1.51
21	h	203	CLA	CMB-C2B	-2.35	1.46	1.51
21	a	816	CLA	CMB-C2B	-2.35	1.46	1.51
21	9	312	CLA	CMB-C2B	-2.35	1.46	1.51
21	6	308	CLA	CMB-C2B	-2.35	1.46	1.51
21	7	313	CLA	CMB-C2B	-2.34	1.46	1.51
21	a	839	CLA	CMB-C2B	-2.34	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	a	825	CLA	CMB-C2B	-2.34	1.46	1.51
21	a	840	CLA	CMB-C2B	-2.34	1.46	1.51
21	4	314	CLA	CMB-C2B	-2.33	1.46	1.51
21	a	829	CLA	CMB-C2B	-2.33	1.46	1.51
21	7	310	CLA	CMB-C2B	-2.33	1.46	1.51
21	6	307	CLA	CMB-C2B	-2.33	1.46	1.51
21	9	310	CLA	CMB-C2B	-2.33	1.46	1.51
21	b	832	CLA	CMB-C2B	-2.33	1.46	1.51
21	4	311	CLA	CMD-C2D	-2.33	1.45	1.50
23	9	302	A1L1F	O15-C20	-2.33	1.42	1.46
21	8	311	CLA	CMB-C2B	-2.33	1.46	1.51
21	b	807	CLA	CMB-C2B	-2.32	1.46	1.51
21	b	831	CLA	CMB-C2B	-2.32	1.46	1.51
21	b	805	CLA	CMB-C2B	-2.32	1.46	1.51
21	a	823	CLA	CMB-C2B	-2.32	1.46	1.51
21	8	309	CLA	CMB-C2B	-2.31	1.46	1.51
21	a	833	CLA	CMB-C2B	-2.31	1.46	1.51
21	7	308	CLA	CMB-C2B	-2.31	1.46	1.51
21	a	809	CLA	CMB-C2B	-2.31	1.46	1.51
21	a	844	CLA	CMB-C2B	-2.31	1.46	1.51
21	a	805	CLA	CMB-C2B	-2.31	1.46	1.51
21	a	828	CLA	CMB-C2B	-2.31	1.46	1.51
21	b	810	CLA	CMB-C2B	-2.30	1.46	1.51
21	a	811	CLA	CMB-C2B	-2.30	1.46	1.51
21	a	852	CLA	CMB-C2B	-2.30	1.46	1.51
21	b	823	CLA	CMB-C2B	-2.30	1.46	1.51
21	5	306	CLA	CMB-C2B	-2.30	1.46	1.51
23	1	304	A1L1F	C6-C1	-2.30	1.50	1.54
20	1	301	A1L1G	C40-C39	-2.30	1.41	1.45
24	9	307	LHG	O7-C7	2.30	1.40	1.34
21	b	821	CLA	CMB-C2B	-2.29	1.46	1.51
21	9	308	CLA	CMC-C2C	-2.29	1.45	1.50
21	6	314	CLA	CMB-C2B	-2.29	1.46	1.51
24	9	307	LHG	O8-C6	-2.29	1.39	1.45
24	a	846	LHG	O8-C23	2.29	1.40	1.33
21	b	802	CLA	CMB-C2B	-2.29	1.46	1.51
21	a	806	CLA	C3B-C2B	-2.29	1.37	1.40
20	9	301	A1L1G	C40-C39	-2.27	1.41	1.45
24	m	101	LHG	O7-C7	2.27	1.40	1.34
21	b	822	CLA	CMD-C2D	-2.27	1.46	1.50
20	1	301	A1L1G	C29-C30	-2.27	1.40	1.45
24	a	845	LHG	O7-C7	2.26	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	b	849	LHG	O7-C7	2.26	1.40	1.34
24	a	846	LHG	O7-C5	-2.26	1.40	1.46
21	7	316	CLA	CMB-C2B	-2.26	1.46	1.51
21	b	808	CLA	CMD-C2D	-2.26	1.46	1.50
23	6	301	A1L1F	C6-C1	-2.25	1.50	1.54
24	9	307	LHG	O8-C23	2.25	1.39	1.33
24	b	849	LHG	O7-C5	-2.24	1.41	1.46
21	b	823	CLA	CMD-C2D	-2.24	1.46	1.50
21	5	312	CLA	CMB-C2B	-2.24	1.47	1.51
24	a	845	LHG	O8-C23	2.23	1.39	1.33
21	a	824	CLA	CMD-C2D	-2.21	1.46	1.50
24	a	845	LHG	O7-C5	-2.21	1.41	1.46
23	1	304	A1L1F	O15-C20	-2.21	1.43	1.46
24	a	846	LHG	O7-C7	2.20	1.40	1.34
20	5	304	A1L1G	C29-C30	-2.20	1.40	1.45
23	8	304	A1L1F	O15-C20	-2.19	1.43	1.46
21	b	830	CLA	CMD-C2D	-2.19	1.46	1.50
21	a	801	CLA	C3B-CAB	-2.18	1.43	1.47
19	5	303	XAT	O4-C5	-2.18	1.43	1.46
24	m	101	LHG	O7-C5	-2.17	1.41	1.46
24	9	307	LHG	O7-C5	-2.16	1.41	1.46
21	b	803	CLA	CMB-C2B	-2.16	1.47	1.51
25	b	851	DGD	O3D-C3D	-2.16	1.37	1.43
21	a	801	CLA	CMC-C2C	-2.16	1.46	1.50
21	7	314	CLA	CMD-C2D	-2.15	1.46	1.50
21	a	806	CLA	CAA-C2A	-2.15	1.50	1.54
21	5	306	CLA	CMD-C2D	-2.15	1.46	1.50
21	a	810	CLA	CMD-C2D	-2.15	1.46	1.50
21	a	803	CLA	C3B-CAB	-2.15	1.43	1.47
21	b	802	CLA	CMD-C2D	-2.15	1.46	1.50
20	9	306	A1L1G	C29-C30	-2.14	1.40	1.45
21	b	839	CLA	CMD-C2D	-2.14	1.46	1.50
19	5	301	XAT	O24-C25	-2.14	1.43	1.46
21	a	830	CLA	CMD-C2D	-2.14	1.46	1.50
19	9	305	XAT	O4-C5	-2.13	1.43	1.46
21	7	316	CLA	CMD-C2D	-2.13	1.46	1.50
21	b	828	CLA	CMD-C2D	-2.13	1.46	1.50
21	b	811	CLA	CMD-C2D	-2.13	1.46	1.50
21	b	838	CLA	CMD-C2D	-2.13	1.46	1.50
21	9	309	CLA	CMD-C2D	-2.12	1.46	1.50
19	a	854	XAT	O4-C5	-2.12	1.43	1.46
19	9	304	XAT	O4-C5	-2.12	1.43	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	b	814	CLA	CMD-C2D	-2.11	1.46	1.50
21	9	312	CLA	CMD-C2D	-2.11	1.46	1.50
21	a	812	CLA	CMD-C2D	-2.11	1.46	1.50
19	1	302	XAT	O4-C5	-2.11	1.43	1.46
19	8	303	XAT	O4-C5	-2.11	1.43	1.46
25	b	851	DGD	C1E-C2E	2.11	1.58	1.52
21	a	828	CLA	CMC-C2C	-2.10	1.46	1.50
19	4	305	XAT	O4-C5	-2.10	1.43	1.46
21	a	842	CLA	CMD-C2D	-2.09	1.46	1.50
19	7	303	XAT	O4-C5	-2.09	1.43	1.46
24	9	307	LHG	P-O6	2.09	1.67	1.59
21	b	832	CLA	CMD-C2D	-2.09	1.46	1.50
25	b	851	DGD	O4D-C4D	-2.09	1.38	1.43
21	7	306	CLA	CMD-C2D	-2.09	1.46	1.50
21	a	821	CLA	CMD-C2D	-2.08	1.46	1.50
19	8	302	XAT	O4-C5	-2.08	1.43	1.46
21	a	804	CLA	CMC-C2C	-2.08	1.46	1.50
21	l	201	CLA	CMD-C2D	-2.08	1.46	1.50
21	b	801	CLA	CMD-C2D	-2.08	1.46	1.50
19	5	301	XAT	O4-C5	-2.08	1.43	1.46
24	m	101	LHG	P-O6	2.08	1.67	1.59
21	a	816	CLA	CMD-C2D	-2.07	1.46	1.50
19	4	303	XAT	O24-C25	-2.07	1.43	1.46
21	6	307	CLA	CMD-C2D	-2.07	1.46	1.50
21	b	834	CLA	CMD-C2D	-2.07	1.46	1.50
21	a	807	CLA	CMD-C2D	-2.07	1.46	1.50
25	b	851	DGD	O2D-C2D	-2.07	1.38	1.43
19	1	303	XAT	O4-C5	-2.06	1.43	1.46
19	a	853	XAT	O24-C25	-2.06	1.43	1.46
19	a	854	XAT	O24-C25	-2.06	1.43	1.46
19	4	301	XAT	O4-C5	-2.05	1.43	1.46
21	a	823	CLA	CMD-C2D	-2.05	1.46	1.50
21	9	314	CLA	CMD-C2D	-2.05	1.46	1.50
19	7	301	XAT	O24-C25	-2.05	1.43	1.46
21	a	806	CLA	MG-ND	-2.05	2.01	2.05
19	4	301	XAT	O24-C25	-2.05	1.43	1.46
21	a	811	CLA	CMD-C2D	-2.05	1.46	1.50
21	b	802	CLA	CMC-C2C	-2.05	1.46	1.50
24	a	845	LHG	P-O6	2.05	1.67	1.59
19	6	302	XAT	O4-C5	-2.05	1.43	1.46
21	7	311	CLA	CMD-C2D	-2.05	1.46	1.50
21	1	305	CLA	CMD-C2D	-2.05	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	4	302	XAT	O24-C25	-2.05	1.43	1.46
21	1	313	CLA	CMD-C2D	-2.05	1.46	1.50
24	b	849	LHG	P-O6	2.05	1.67	1.59
19	5	302	XAT	O4-C5	-2.04	1.43	1.46
21	a	819	CLA	CMD-C2D	-2.04	1.46	1.50
19	7	304	XAT	O4-C5	-2.04	1.43	1.46
21	l	203	CLA	CMC-C2C	-2.04	1.46	1.50
21	a	826	CLA	CMD-C2D	-2.04	1.46	1.50
21	b	819	CLA	CMD-C2D	-2.04	1.46	1.50
25	b	851	DGD	O4E-C4E	-2.04	1.38	1.43
21	4	312	CLA	CMD-C2D	-2.04	1.46	1.50
21	a	832	CLA	CMD-C2D	-2.04	1.46	1.50
23	6	304	A1L1F	O15-C20	-2.03	1.43	1.46
21	b	827	CLA	CMD-C2D	-2.03	1.46	1.50
27	m	102	BCR	C33-C5	-2.03	1.47	1.50
21	4	309	CLA	CMD-C2D	-2.03	1.46	1.50
21	8	313	CLA	CMD-C2D	-2.03	1.46	1.50
21	4	308	CLA	CMD-C2D	-2.03	1.46	1.50
19	6	305	XAT	O4-C5	-2.03	1.43	1.46
21	a	852	CLA	CMD-C2D	-2.03	1.46	1.50
21	a	814	CLA	CMD-C2D	-2.03	1.46	1.50
21	a	818	CLA	CMD-C2D	-2.03	1.46	1.50
21	b	820	CLA	CMD-C2D	-2.03	1.46	1.50
20	7	302	A1L1G	C29-C30	-2.03	1.40	1.45
19	4	304	XAT	O4-C5	-2.02	1.43	1.46
21	7	312	CLA	CMD-C2D	-2.02	1.46	1.50
21	6	312	CLA	CMD-C2D	-2.02	1.46	1.50
19	6	306	XAT	O24-C25	-2.02	1.43	1.46
19	6	303	XAT	O24-C25	-2.02	1.43	1.46
21	6	309	CLA	CMD-C2D	-2.02	1.46	1.50
21	4	317	CLA	CMD-C2D	-2.02	1.46	1.50
21	6	315	CLA	CMD-C2D	-2.02	1.46	1.50
21	4	314	CLA	CMD-C2D	-2.02	1.46	1.50
21	a	819	CLA	CMC-C2C	-2.02	1.46	1.50
21	b	815	CLA	CMD-C2D	-2.02	1.46	1.50
21	b	821	CLA	CMD-C2D	-2.02	1.46	1.50
21	a	809	CLA	CMD-C2D	-2.02	1.46	1.50
21	b	841	CLA	C3B-C2B	-2.02	1.37	1.40
21	b	810	CLA	CMD-C2D	-2.02	1.46	1.50
21	b	816	CLA	CMD-C2D	-2.02	1.46	1.50
21	9	316	CLA	CMD-C2D	-2.01	1.46	1.50
21	8	311	CLA	CMD-C2D	-2.01	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	a	802	CLA	CMD-C2D	-2.01	1.46	1.50
21	5	311	CLA	CMD-C2D	-2.01	1.46	1.50
19	5	302	XAT	O24-C25	-2.01	1.43	1.46
21	9	308	CLA	CMD-C2D	-2.01	1.46	1.50
21	a	805	CLA	CMD-C2D	-2.01	1.46	1.50
21	b	807	CLA	CMD-C2D	-2.01	1.46	1.50
19	4	303	XAT	O4-C5	-2.01	1.43	1.46
21	8	310	CLA	CMD-C2D	-2.01	1.46	1.50
21	l	202	CLA	CMD-C2D	-2.01	1.46	1.50
21	6	314	CLA	CMD-C2D	-2.01	1.46	1.50
21	1	309	CLA	CMD-C2D	-2.01	1.46	1.50
21	b	808	CLA	CMC-C2C	-2.01	1.46	1.50
21	8	306	CLA	CMD-C2D	-2.01	1.46	1.50
21	a	827	CLA	CMD-C2D	-2.01	1.46	1.50
21	a	839	CLA	CMD-C2D	-2.01	1.46	1.50
21	l	202	CLA	CMC-C2C	-2.01	1.46	1.50
21	4	315	CLA	CMD-C2D	-2.01	1.46	1.50
19	6	303	XAT	O4-C5	-2.00	1.43	1.46
21	h	201	CLA	CMD-C2D	-2.00	1.46	1.50
21	9	313	CLA	CMD-C2D	-2.00	1.46	1.50
21	a	829	CLA	CMD-C2D	-2.00	1.46	1.50
21	h	203	CLA	CMC-C2C	-2.00	1.46	1.50
21	4	306	CLA	CMD-C2D	-2.00	1.46	1.50
21	a	836	CLA	CMD-C2D	-2.00	1.46	1.50
21	7	310	CLA	CMD-C2D	-2.00	1.46	1.50
21	a	831	CLA	CMD-C2D	-2.00	1.46	1.50

All (2339) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	9	302	A1L1F	O15-C20-C21	13.19	123.29	113.38
25	4	318	DGD	C6E-C5E-C4E	-9.41	90.97	113.00
23	6	301	A1L1F	O15-C20-C21	8.71	119.93	113.38
23	6	304	A1L1F	O15-C20-C21	8.63	119.87	113.38
23	8	304	A1L1F	O15-C20-C21	8.54	119.80	113.38
23	9	302	A1L1F	C17-C20-C25	-8.48	108.05	122.26
23	6	301	A1L1F	C17-C20-C25	-8.43	108.13	122.26
23	h	202	A1L1F	O15-C20-C21	8.39	119.69	113.38
23	h	202	A1L1F	C17-C20-C25	-8.29	108.36	122.26
23	6	304	A1L1F	C17-C20-C25	-8.26	108.41	122.26
23	8	304	A1L1F	C17-C20-C25	-8.26	108.42	122.26
23	1	304	A1L1F	C17-C20-C25	-8.10	108.68	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	8	304	A1L1F	C37-C38-C39	-7.83	116.14	127.31
19	6	305	XAT	C18-C5-C4	7.61	122.84	114.28
19	6	303	XAT	C38-C25-C26	-7.41	109.84	122.26
19	9	303	XAT	C38-C25-C24	7.37	122.57	114.28
21	9	313	CLA	C4A-NA-C1A	7.31	109.99	106.71
21	7	314	CLA	C4A-NA-C1A	7.30	109.99	106.71
19	4	305	XAT	C38-C25-C24	7.29	122.48	114.28
23	1	304	A1L1F	O15-C20-C21	7.29	118.86	113.38
19	1	303	XAT	C38-C25-C24	7.22	122.40	114.28
21	b	802	CLA	C4A-NA-C1A	7.21	109.95	106.71
21	l	202	CLA	C4A-NA-C1A	7.20	109.94	106.71
21	b	840	CLA	C4A-NA-C1A	7.20	109.94	106.71
21	9	310	CLA	C4A-NA-C1A	7.19	109.94	106.71
21	a	806	CLA	C4A-NA-C1A	7.16	109.92	106.71
19	7	304	XAT	C38-C25-C24	7.15	122.32	114.28
21	a	833	CLA	C4A-NA-C1A	7.14	109.92	106.71
19	5	305	XAT	C38-C25-C24	7.13	122.30	114.28
19	a	854	XAT	C15-C14-C13	-7.11	117.16	127.31
21	a	835	CLA	C4A-NA-C1A	7.10	109.90	106.71
21	9	308	CLA	C4A-NA-C1A	7.08	109.89	106.71
19	a	853	XAT	C38-C25-C24	7.07	122.24	114.28
19	9	304	XAT	C38-C25-C24	7.07	122.23	114.28
21	4	310	CLA	C4A-NA-C1A	7.05	109.88	106.71
21	a	828	CLA	C4A-NA-C1A	7.05	109.88	106.71
19	7	305	XAT	C38-C25-C24	7.05	122.21	114.28
21	a	823	CLA	C4A-NA-C1A	7.04	109.87	106.71
19	5	305	XAT	C18-C5-C4	7.03	122.19	114.28
19	4	304	XAT	C38-C25-C24	7.03	122.19	114.28
21	b	820	CLA	C4A-NA-C1A	7.02	109.86	106.71
21	a	810	CLA	C4A-NA-C1A	7.02	109.86	106.71
27	f	801	BCR	C24-C23-C22	-7.01	115.64	126.23
21	b	801	CLA	C4A-NA-C1A	7.01	109.86	106.71
21	b	804	CLA	C4A-NA-C1A	7.00	109.85	106.71
21	b	808	CLA	C4A-NA-C1A	6.99	109.85	106.71
19	6	305	XAT	C38-C25-C24	6.96	122.11	114.28
21	4	316	CLA	C4A-NA-C1A	6.95	109.83	106.71
21	1	308	CLA	C4A-NA-C1A	6.95	109.83	106.71
21	6	312	CLA	C4A-NA-C1A	6.92	109.82	106.71
19	8	301	XAT	C38-C25-C24	6.91	122.06	114.28
19	6	302	XAT	C38-C25-C24	6.91	122.05	114.28
19	1	302	XAT	C38-C25-C24	6.91	122.05	114.28
19	5	302	XAT	C38-C25-C26	-6.90	110.70	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	821	CLA	C4A-NA-C1A	6.90	109.81	106.71
21	j	101	CLA	C4A-NA-C1A	6.89	109.81	106.71
21	a	801	CLA	C4A-NA-C1A	6.88	109.80	106.71
21	7	317	CLA	C4A-NA-C1A	6.88	109.80	106.71
19	5	305	XAT	C6-C7-C8	-6.85	111.52	125.99
21	a	826	CLA	C4A-NA-C1A	6.85	109.78	106.71
21	4	311	CLA	C4A-NA-C1A	6.84	109.78	106.71
21	b	814	CLA	C4A-NA-C1A	6.84	109.78	106.71
19	4	305	XAT	C38-C25-C26	-6.84	110.80	122.26
21	b	837	CLA	C4A-NA-C1A	6.84	109.78	106.71
19	9	303	XAT	C38-C25-C26	-6.83	110.81	122.26
21	b	810	CLA	C4A-NA-C1A	6.83	109.78	106.71
21	f	802	CLA	C4A-NA-C1A	6.82	109.77	106.71
21	h	201	CLA	C4A-NA-C1A	6.80	109.76	106.71
21	l	201	CLA	C4A-NA-C1A	6.79	109.76	106.71
19	a	854	XAT	C38-C25-C24	6.79	121.92	114.28
21	b	805	CLA	C4A-NA-C1A	6.79	109.76	106.71
21	a	821	CLA	C4A-NA-C1A	6.79	109.76	106.71
19	8	303	XAT	C38-C25-C24	6.79	121.91	114.28
21	b	812	CLA	C4A-NA-C1A	6.78	109.75	106.71
21	b	809	CLA	C4A-NA-C1A	6.78	109.75	106.71
21	b	827	CLA	C4A-NA-C1A	6.77	109.75	106.71
21	4	317	CLA	C4A-NA-C1A	6.77	109.75	106.71
21	6	310	CLA	C4A-NA-C1A	6.77	109.75	106.71
21	6	314	CLA	C4A-NA-C1A	6.76	109.75	106.71
19	4	303	XAT	C38-C25-C24	6.76	121.88	114.28
19	8	301	XAT	C38-C25-C26	-6.75	110.95	122.26
21	a	817	CLA	C4A-NA-C1A	6.74	109.74	106.71
21	b	832	CLA	C4A-NA-C1A	6.74	109.74	106.71
21	a	809	CLA	C4A-NA-C1A	6.74	109.74	106.71
21	a	825	CLA	C4A-NA-C1A	6.74	109.74	106.71
21	a	839	CLA	C4A-NA-C1A	6.73	109.73	106.71
21	1	306	CLA	C4A-NA-C1A	6.72	109.73	106.71
21	6	309	CLA	C4A-NA-C1A	6.72	109.73	106.71
21	a	832	CLA	C4A-NA-C1A	6.72	109.73	106.71
19	8	303	XAT	C18-C5-C6	-6.72	111.00	122.26
21	6	316	CLA	C4A-NA-C1A	6.71	109.72	106.71
19	9	304	XAT	C38-C25-C26	-6.70	111.03	122.26
21	a	831	CLA	C4A-NA-C1A	6.70	109.72	106.71
21	a	812	CLA	C4A-NA-C1A	6.70	109.72	106.71
19	6	302	XAT	C38-C25-C26	-6.69	111.05	122.26
19	8	302	XAT	C38-C25-C24	6.69	121.81	114.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	8	307	CLA	C4A-NA-C1A	6.69	109.71	106.71
21	a	834	CLA	C4A-NA-C1A	6.68	109.71	106.71
21	a	838	CLA	C4A-NA-C1A	6.68	109.71	106.71
19	7	301	XAT	C18-C5-C4	6.67	121.79	114.28
21	1	307	CLA	C4A-NA-C1A	6.67	109.70	106.71
19	5	305	XAT	C18-C5-C6	-6.67	111.08	122.26
21	5	307	CLA	C4A-NA-C1A	6.67	109.70	106.71
21	a	837	CLA	C4A-NA-C1A	6.67	109.70	106.71
21	a	840	CLA	C4A-NA-C1A	6.66	109.70	106.71
21	8	312	CLA	C4A-NA-C1A	6.66	109.70	106.71
19	7	304	XAT	C18-C5-C6	-6.66	111.10	122.26
21	5	312	CLA	C4A-NA-C1A	6.66	109.70	106.71
21	a	805	CLA	C4A-NA-C1A	6.65	109.70	106.71
19	6	302	XAT	C11-C10-C9	-6.64	117.83	127.31
19	6	303	XAT	C38-C25-C24	6.64	121.75	114.28
19	5	303	XAT	C18-C5-C6	-6.64	111.14	122.26
21	4	307	CLA	C4A-NA-C1A	6.64	109.69	106.71
21	7	312	CLA	C4A-NA-C1A	6.63	109.69	106.71
21	5	314	CLA	C4A-NA-C1A	6.63	109.69	106.71
21	a	841	CLA	C4A-NA-C1A	6.62	109.68	106.71
19	7	301	XAT	C18-C5-C6	-6.62	111.16	122.26
21	a	811	CLA	C4A-NA-C1A	6.62	109.68	106.71
21	6	308	CLA	C4A-NA-C1A	6.62	109.68	106.71
19	5	301	XAT	C31-C30-C29	-6.61	117.87	127.31
21	1	203	CLA	C4A-NA-C1A	6.61	109.68	106.71
21	7	307	CLA	C4A-NA-C1A	6.61	109.68	106.71
21	b	824	CLA	C4A-NA-C1A	6.61	109.68	106.71
21	1	305	CLA	C4A-NA-C1A	6.60	109.67	106.71
19	4	302	XAT	C38-C25-C24	6.60	121.71	114.28
21	b	834	CLA	C4A-NA-C1A	6.60	109.67	106.71
21	f	803	CLA	C4A-NA-C1A	6.60	109.67	106.71
21	4	314	CLA	C4A-NA-C1A	6.59	109.67	106.71
21	a	807	CLA	C4A-NA-C1A	6.59	109.67	106.71
21	a	842	CLA	C4A-NA-C1A	6.59	109.67	106.71
19	7	303	XAT	C38-C25-C26	-6.59	111.21	122.26
21	7	306	CLA	C4A-NA-C1A	6.59	109.67	106.71
19	4	301	XAT	C18-C5-C4	6.59	121.69	114.28
21	8	305	CLA	C4A-NA-C1A	6.59	109.67	106.71
19	5	302	XAT	C38-C25-C24	6.59	121.69	114.28
21	b	807	CLA	C4A-NA-C1A	6.58	109.67	106.71
19	a	853	XAT	C38-C25-C26	-6.58	111.23	122.26
27	i	101	BCR	C24-C23-C22	-6.58	116.29	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	5	311	CLA	C4A-NA-C1A	6.58	109.66	106.71
21	a	804	CLA	C4A-NA-C1A	6.58	109.66	106.71
21	9	314	CLA	C4A-NA-C1A	6.57	109.66	106.71
21	b	806	CLA	C4A-NA-C1A	6.57	109.66	106.71
21	a	818	CLA	C4A-NA-C1A	6.57	109.66	106.71
21	6	307	CLA	C4A-NA-C1A	6.56	109.66	106.71
21	7	315	CLA	C4A-NA-C1A	6.56	109.66	106.71
21	a	830	CLA	C4A-NA-C1A	6.56	109.66	106.71
19	7	304	XAT	C38-C25-C26	-6.56	111.27	122.26
21	7	316	CLA	C4A-NA-C1A	6.56	109.65	106.71
19	6	305	XAT	C38-C25-C26	-6.56	111.27	122.26
19	8	302	XAT	C38-C25-C26	-6.55	111.28	122.26
21	a	856	CLA	C4A-NA-C1A	6.55	109.65	106.71
21	b	826	CLA	C4A-NA-C1A	6.55	109.65	106.71
19	8	302	XAT	C18-C5-C6	-6.55	111.28	122.26
19	7	303	XAT	C38-C25-C24	6.55	121.65	114.28
19	4	303	XAT	C18-C5-C6	-6.55	111.28	122.26
19	4	302	XAT	C18-C5-C4	6.55	121.64	114.28
21	4	306	CLA	C4A-NA-C1A	6.54	109.65	106.71
21	4	315	CLA	C4A-NA-C1A	6.54	109.65	106.71
19	7	305	XAT	C38-C25-C26	-6.54	111.31	122.26
19	5	305	XAT	C38-C25-C26	-6.53	111.31	122.26
21	7	310	CLA	C4A-NA-C1A	6.53	109.64	106.71
21	1	312	CLA	C4A-NA-C1A	6.53	109.64	106.71
19	5	301	XAT	C18-C5-C4	6.53	121.63	114.28
21	8	313	CLA	C4A-NA-C1A	6.52	109.64	106.71
19	7	303	XAT	C18-C5-C6	-6.52	111.33	122.26
21	5	315	CLA	C4A-NA-C1A	6.52	109.64	106.71
21	b	833	CLA	C4A-NA-C1A	6.52	109.64	106.71
21	a	808	CLA	C4A-NA-C1A	6.51	109.63	106.71
19	5	301	XAT	C18-C5-C6	-6.51	111.35	122.26
21	6	315	CLA	C4A-NA-C1A	6.51	109.63	106.71
21	b	815	CLA	C4A-NA-C1A	6.50	109.63	106.71
21	a	844	CLA	C4A-NA-C1A	6.50	109.63	106.71
19	4	303	XAT	C38-C25-C26	-6.49	111.38	122.26
21	a	827	CLA	C4A-NA-C1A	6.49	109.62	106.71
19	6	303	XAT	C18-C5-C6	-6.48	111.40	122.26
21	6	311	CLA	C4A-NA-C1A	6.48	109.62	106.71
21	5	309	CLA	C4A-NA-C1A	6.47	109.62	106.71
21	b	813	CLA	C4A-NA-C1A	6.47	109.62	106.71
21	b	839	CLA	C4A-NA-C1A	6.47	109.62	106.71
27	a	850	BCR	C24-C23-C22	-6.47	116.45	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	a	819	CLA	C4A-NA-C1A	6.47	109.61	106.71
19	8	303	XAT	C18-C5-C4	6.47	121.56	114.28
21	b	836	CLA	C4A-NA-C1A	6.46	109.61	106.71
21	7	311	CLA	C4A-NA-C1A	6.46	109.61	106.71
21	5	313	CLA	C4A-NA-C1A	6.46	109.61	106.71
21	1	314	CLA	C4A-NA-C1A	6.46	109.61	106.71
21	8	309	CLA	C4A-NA-C1A	6.45	109.61	106.71
21	8	314	CLA	C4A-NA-C1A	6.45	109.61	106.71
19	6	303	XAT	C18-C5-C4	6.45	121.54	114.28
21	5	310	CLA	C4A-NA-C1A	6.44	109.60	106.71
21	5	306	CLA	C4A-NA-C1A	6.44	109.60	106.71
21	7	308	CLA	C4A-NA-C1A	6.44	109.60	106.71
21	a	814	CLA	C4A-NA-C1A	6.43	109.60	106.71
19	6	306	XAT	C18-C5-C6	-6.43	111.48	122.26
21	b	818	CLA	C4A-NA-C1A	6.43	109.59	106.71
19	5	303	XAT	C26-C27-C28	-6.42	112.42	125.99
21	1	313	CLA	C4A-NA-C1A	6.41	109.59	106.71
19	1	302	XAT	C38-C25-C26	-6.40	111.54	122.26
21	8	308	CLA	C4A-NA-C1A	6.39	109.58	106.71
21	a	822	CLA	C4A-NA-C1A	6.39	109.58	106.71
21	5	308	CLA	C4A-NA-C1A	6.39	109.58	106.71
19	6	302	XAT	C18-C5-C6	-6.39	111.56	122.26
19	a	853	XAT	C18-C5-C6	-6.39	111.56	122.26
19	1	302	XAT	C18-C5-C4	6.38	121.46	114.28
21	a	813	CLA	C4A-NA-C1A	6.38	109.57	106.71
21	b	819	CLA	C4A-NA-C1A	6.38	109.57	106.71
21	b	822	CLA	C4A-NA-C1A	6.38	109.57	106.71
19	4	301	XAT	C18-C5-C6	-6.37	111.58	122.26
19	7	305	XAT	C18-C5-C6	-6.36	111.59	122.26
21	a	815	CLA	C4A-NA-C1A	6.36	109.57	106.71
19	4	305	XAT	C31-C30-C29	-6.36	118.23	127.31
21	b	823	CLA	C4A-NA-C1A	6.36	109.56	106.71
21	b	831	CLA	C4A-NA-C1A	6.36	109.56	106.71
19	7	305	XAT	C18-C5-C4	6.36	121.43	114.28
21	8	306	CLA	C4A-NA-C1A	6.36	109.56	106.71
21	8	311	CLA	C4A-NA-C1A	6.36	109.56	106.71
21	6	313	CLA	C4A-NA-C1A	6.36	109.56	106.71
21	h	203	CLA	C4A-NA-C1A	6.36	109.56	106.71
19	4	302	XAT	C18-C5-C6	-6.36	111.61	122.26
21	9	312	CLA	C4A-NA-C1A	6.34	109.56	106.71
21	b	835	CLA	C4A-NA-C1A	6.33	109.55	106.71
19	1	302	XAT	C18-C5-C6	-6.33	111.65	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	825	CLA	C4A-NA-C1A	6.33	109.55	106.71
19	a	853	XAT	C18-C5-C4	6.32	121.39	114.28
21	5	316	CLA	C4A-NA-C1A	6.32	109.55	106.71
21	a	829	CLA	C4A-NA-C1A	6.32	109.55	106.71
21	b	811	CLA	C4A-NA-C1A	6.32	109.55	106.71
21	9	311	CLA	C4A-NA-C1A	6.32	109.55	106.71
19	4	303	XAT	C18-C5-C4	6.31	121.38	114.28
19	9	303	XAT	C18-C5-C6	-6.31	111.69	122.26
21	a	836	CLA	C4A-NA-C1A	6.31	109.54	106.71
21	7	309	CLA	C4A-NA-C1A	6.30	109.54	106.71
19	6	306	XAT	C38-C25-C26	-6.30	111.70	122.26
19	4	304	XAT	C18-C5-C6	-6.29	111.71	122.26
21	4	308	CLA	C4A-NA-C1A	6.29	109.53	106.71
19	4	304	XAT	C38-C25-C26	-6.28	111.73	122.26
21	1	309	CLA	C4A-NA-C1A	6.27	109.53	106.71
19	4	305	XAT	C18-C5-C6	-6.27	111.76	122.26
21	7	313	CLA	C4A-NA-C1A	6.27	109.52	106.71
21	9	316	CLA	C4A-NA-C1A	6.26	109.52	106.71
21	a	824	CLA	C4A-NA-C1A	6.26	109.52	106.71
21	b	829	CLA	C4A-NA-C1A	6.26	109.52	106.71
19	8	301	XAT	C18-C5-C6	-6.26	111.77	122.26
21	a	816	CLA	C4A-NA-C1A	6.26	109.52	106.71
19	8	302	XAT	C11-C10-C9	-6.25	118.39	127.31
19	8	303	XAT	C38-C25-C26	-6.25	111.78	122.26
21	b	816	CLA	C4A-NA-C1A	6.25	109.51	106.71
19	4	301	XAT	C38-C25-C26	-6.24	111.80	122.26
19	1	303	XAT	C18-C5-C6	-6.23	111.81	122.26
19	4	302	XAT	C38-C25-C26	-6.23	111.82	122.26
21	9	315	CLA	C4A-NA-C1A	6.23	109.50	106.71
27	i	101	BCR	C20-C21-C22	-6.22	118.43	127.31
19	a	854	XAT	C38-C25-C26	-6.22	111.83	122.26
19	9	305	XAT	C18-C5-C6	-6.22	111.84	122.26
21	4	309	CLA	C4A-NA-C1A	6.22	109.50	106.71
21	a	802	CLA	C4A-NA-C1A	6.21	109.50	106.71
19	5	302	XAT	C18-C5-C6	-6.21	111.84	122.26
19	6	306	XAT	C18-C5-C4	6.21	121.27	114.28
19	1	303	XAT	C38-C25-C26	-6.21	111.86	122.26
21	4	312	CLA	C4A-NA-C1A	6.19	109.49	106.71
19	5	303	XAT	C38-C25-C24	6.19	121.25	114.28
19	6	306	XAT	C38-C25-C24	6.19	121.25	114.28
19	4	301	XAT	C38-C25-C24	6.18	121.23	114.28
21	9	309	CLA	C4A-NA-C1A	6.17	109.48	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	838	CLA	C4A-NA-C1A	6.17	109.48	106.71
21	1	311	CLA	C4A-NA-C1A	6.17	109.48	106.71
19	4	304	XAT	C18-C5-C4	6.16	121.21	114.28
19	9	305	XAT	C11-C10-C9	-6.15	118.53	127.31
21	1	310	CLA	C4A-NA-C1A	6.15	109.47	106.71
19	6	302	XAT	C18-C5-C4	6.13	121.17	114.28
19	1	303	XAT	C18-C5-C4	6.13	121.17	114.28
21	a	820	CLA	C4A-NA-C1A	6.12	109.46	106.71
19	6	305	XAT	C35-C34-C33	-6.11	118.59	127.31
19	a	854	XAT	C26-C27-C28	-6.10	113.10	125.99
19	7	304	XAT	C18-C5-C4	6.05	121.08	114.28
21	b	828	CLA	C4A-NA-C1A	6.04	109.42	106.71
21	b	841	CLA	C4A-NA-C1A	6.04	109.42	106.71
21	b	803	CLA	C4A-NA-C1A	6.02	109.41	106.71
21	b	817	CLA	C4A-NA-C1A	6.02	109.41	106.71
19	4	305	XAT	C18-C5-C4	6.01	121.04	114.28
19	6	303	XAT	C15-C14-C13	-6.01	118.74	127.31
19	7	301	XAT	C38-C25-C24	5.97	120.99	114.28
19	5	305	XAT	C26-C27-C28	-5.97	113.38	125.99
21	8	310	CLA	C4A-NA-C1A	5.96	109.38	106.71
27	b	843	BCR	C7-C8-C9	-5.95	117.25	126.23
19	8	301	XAT	C18-C5-C4	5.94	120.96	114.28
19	5	303	XAT	C18-C5-C4	5.92	120.94	114.28
21	4	313	CLA	C4A-NA-C1A	5.92	109.37	106.71
21	b	830	CLA	C4A-NA-C1A	5.91	109.36	106.71
19	7	303	XAT	C18-C5-C4	5.89	120.91	114.28
21	a	852	CLA	C4A-NA-C1A	5.88	109.35	106.71
19	8	302	XAT	C18-C5-C4	5.88	120.89	114.28
23	8	304	A1L1F	O15-C20-C17	5.86	122.08	115.06
27	b	852	BCR	C16-C17-C18	-5.86	118.95	127.31
19	5	302	XAT	C18-C5-C4	5.85	120.86	114.28
19	a	853	XAT	C6-C7-C8	-5.85	113.62	125.99
19	7	301	XAT	C31-C30-C29	-5.85	118.96	127.31
23	h	202	A1L1F	C37-C38-C39	-5.81	119.02	127.31
19	5	303	XAT	C38-C25-C26	-5.78	112.56	122.26
19	7	301	XAT	C38-C25-C26	-5.78	112.58	122.26
19	9	303	XAT	C18-C5-C4	5.75	120.75	114.28
27	a	850	BCR	C20-C21-C22	-5.75	119.10	127.31
19	5	303	XAT	C11-C10-C9	-5.67	119.22	127.31
23	1	304	A1L1F	O15-C20-C17	5.67	121.84	115.06
19	5	301	XAT	C35-C34-C33	-5.66	119.23	127.31
19	5	301	XAT	C38-C25-C24	5.65	120.64	114.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	f	801	BCR	C16-C17-C18	-5.64	119.26	127.31
19	9	304	XAT	C26-C27-C28	-5.64	114.07	125.99
27	b	845	BCR	C24-C23-C22	-5.63	117.73	126.23
27	b	843	BCR	C11-C10-C9	-5.61	119.30	127.31
27	b	845	BCR	C7-C8-C9	-5.59	117.80	126.23
19	6	305	XAT	C31-C30-C29	-5.55	119.39	127.31
19	6	305	XAT	C18-C5-C6	-5.53	113.00	122.26
19	7	305	XAT	C15-C14-C13	-5.51	119.45	127.31
27	b	847	BCR	C16-C17-C18	-5.49	119.47	127.31
19	8	303	XAT	C26-C27-C28	-5.48	114.41	125.99
23	h	202	A1L1F	O15-C20-C17	5.47	121.61	115.06
27	j	102	BCR	C28-C27-C26	-5.45	104.34	114.08
23	6	301	A1L1F	O15-C20-C17	5.45	121.59	115.06
19	4	301	XAT	C6-C7-C8	-5.44	114.49	125.99
27	f	801	BCR	C20-C21-C22	-5.44	119.55	127.31
19	9	303	XAT	C15-C14-C13	-5.42	119.58	127.31
19	6	306	XAT	C31-C30-C29	-5.41	119.59	127.31
27	f	804	BCR	C15-C14-C13	-5.38	119.63	127.31
19	a	854	XAT	C18-C5-C6	-5.35	113.29	122.26
27	b	845	BCR	C33-C5-C6	-5.33	118.55	124.53
19	5	301	XAT	C38-C25-C26	-5.31	113.36	122.26
19	6	302	XAT	C15-C14-C13	-5.30	119.74	127.31
25	b	851	DGD	O2G-C1B-C2B	5.30	122.91	111.50
19	4	305	XAT	C15-C14-C13	-5.29	119.77	127.31
27	b	843	BCR	C3-C4-C5	-5.28	104.65	114.08
19	4	303	XAT	C26-C27-C28	-5.28	114.84	125.99
19	a	854	XAT	C18-C5-C4	5.27	120.21	114.28
27	b	843	BCR	C15-C14-C13	-5.26	119.80	127.31
19	a	854	XAT	C6-C7-C8	-5.26	114.87	125.99
21	a	803	CLA	C4A-NA-C1A	5.26	109.07	106.71
19	6	302	XAT	C31-C30-C29	-5.25	119.82	127.31
19	6	306	XAT	C35-C34-C33	-5.24	119.83	127.31
19	4	304	XAT	C26-C27-C28	-5.23	114.93	125.99
27	a	849	BCR	C3-C4-C5	-5.23	104.73	114.08
23	6	301	A1L1F	C36-C37-C38	-5.23	112.76	123.47
19	7	301	XAT	C35-C34-C33	-5.23	119.85	127.31
19	9	305	XAT	C18-C5-C4	5.22	120.16	114.28
23	8	304	A1L1F	C41-C42-C44	-5.20	119.89	127.31
19	7	304	XAT	C11-C10-C9	-5.20	119.89	127.31
27	b	853	BCR	C7-C8-C9	-5.19	118.39	126.23
23	8	304	A1L1F	O7-C54-C56	5.18	120.63	111.09
19	a	853	XAT	C26-C27-C28	-5.18	115.04	125.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	9	303	XAT	C26-C27-C28	-5.18	115.05	125.99
27	i	102	BCR	C24-C23-C22	-5.12	118.50	126.23
27	b	846	BCR	C3-C4-C5	-5.10	104.97	114.08
19	8	303	XAT	C15-C14-C13	-5.10	120.03	127.31
23	6	304	A1L1F	O15-C20-C17	5.09	121.15	115.06
19	1	302	XAT	C35-C34-C33	-5.07	120.08	127.31
19	8	303	XAT	C6-C7-C8	-5.05	115.31	125.99
19	7	305	XAT	C26-C27-C28	-5.04	115.34	125.99
19	6	302	XAT	C35-C34-C33	-5.02	120.15	127.31
27	a	847	BCR	C16-C17-C18	-5.01	120.15	127.31
19	5	302	XAT	C26-C27-C28	-5.00	115.42	125.99
19	4	304	XAT	C6-C7-C8	-4.98	115.46	125.99
27	b	852	BCR	C20-C21-C22	-4.96	120.22	127.31
19	1	302	XAT	C26-C27-C28	-4.95	115.52	125.99
27	b	852	BCR	C11-C10-C9	-4.94	120.26	127.31
27	a	850	BCR	C16-C17-C18	-4.94	120.26	127.31
27	f	804	BCR	C11-C10-C9	-4.91	120.31	127.31
19	7	303	XAT	C31-C30-C29	-4.90	120.31	127.31
19	4	303	XAT	C11-C10-C9	-4.88	120.34	127.31
19	1	303	XAT	C6-C7-C8	-4.87	115.69	125.99
19	a	853	XAT	C11-C10-C9	-4.87	120.36	127.31
19	7	304	XAT	C26-C27-C28	-4.86	115.71	125.99
27	a	849	BCR	C16-C17-C18	-4.84	120.40	127.31
27	j	102	BCR	C11-C10-C9	-4.82	120.43	127.31
21	a	831	CLA	CMB-C2B-C1B	-4.82	121.06	128.46
19	1	302	XAT	C6-C7-C8	-4.81	115.82	125.99
27	i	102	BCR	C15-C14-C13	-4.80	120.46	127.31
19	5	303	XAT	C15-C14-C13	-4.80	120.46	127.31
19	5	305	XAT	C15-C14-C13	-4.79	120.47	127.31
21	b	829	CLA	CMB-C2B-C1B	-4.79	121.11	128.46
27	i	101	BCR	C16-C17-C18	-4.78	120.49	127.31
19	7	301	XAT	C6-C7-C8	-4.77	115.91	125.99
19	9	305	XAT	C35-C34-C33	-4.77	120.51	127.31
27	b	852	BCR	C38-C26-C25	-4.75	119.19	124.53
27	b	852	BCR	C7-C8-C9	-4.75	119.06	126.23
27	b	850	BCR	C16-C17-C18	-4.74	120.54	127.31
19	7	304	XAT	C35-C34-C33	-4.74	120.55	127.31
19	7	304	XAT	C15-C14-C13	-4.73	120.56	127.31
19	4	302	XAT	C26-C27-C28	-4.72	116.00	125.99
19	8	301	XAT	C26-C27-C28	-4.70	116.05	125.99
19	4	302	XAT	C6-C7-C8	-4.69	116.07	125.99
19	7	305	XAT	C6-C7-C8	-4.69	116.07	125.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	817	CLA	CMB-C2B-C1B	-4.67	121.29	128.46
19	9	304	XAT	C15-C14-C13	-4.66	120.66	127.31
19	8	302	XAT	C15-C14-C13	-4.62	120.72	127.31
19	9	305	XAT	C38-C25-C24	4.61	119.47	114.28
27	b	848	BCR	C16-C17-C18	-4.60	120.75	127.31
19	7	303	XAT	C11-C10-C9	-4.59	120.75	127.31
19	4	302	XAT	C35-C34-C33	-4.59	120.76	127.31
27	b	844	BCR	C11-C10-C9	-4.59	120.76	127.31
19	5	302	XAT	C35-C34-C33	-4.59	120.76	127.31
23	9	302	A1L1F	O7-C54-C56	4.57	119.50	111.09
27	b	844	BCR	C7-C8-C9	-4.55	119.35	126.23
19	4	305	XAT	C26-C27-C28	-4.55	116.37	125.99
19	7	303	XAT	C35-C34-C33	-4.55	120.82	127.31
19	7	301	XAT	C27-C28-C29	-4.55	118.47	125.53
23	6	304	A1L1F	O7-C54-C56	4.54	119.43	111.09
19	8	302	XAT	C26-C27-C28	-4.53	116.42	125.99
19	6	306	XAT	C6-C7-C8	-4.51	116.45	125.99
19	8	302	XAT	C35-C34-C33	-4.51	120.88	127.31
23	h	202	A1L1F	O7-C54-C56	4.50	119.36	111.09
27	a	848	BCR	C16-C17-C18	-4.47	120.93	127.31
19	7	303	XAT	C26-C27-C28	-4.46	116.56	125.99
23	9	302	A1L1F	C36-C35-C34	-4.45	120.96	127.31
21	a	802	CLA	CMB-C2B-C1B	-4.45	121.62	128.46
27	a	849	BCR	C15-C14-C13	-4.44	120.97	127.31
25	b	851	DGD	O5D-C6D-C5D	-4.42	100.87	109.05
23	6	301	A1L1F	O7-C54-C56	4.41	119.21	111.09
27	a	848	BCR	C15-C14-C13	-4.41	121.02	127.31
27	b	845	BCR	C16-C17-C18	-4.39	121.05	127.31
27	j	102	BCR	C15-C14-C13	-4.39	121.05	127.31
27	b	843	BCR	C16-C17-C18	-4.38	121.06	127.31
23	h	202	A1L1F	C25-C14-C29	-4.37	116.76	125.99
19	8	301	XAT	C35-C34-C33	-4.36	121.09	127.31
19	a	853	XAT	C35-C34-C33	-4.36	121.09	127.31
27	a	850	BCR	C15-C14-C13	-4.35	121.10	127.31
25	4	318	DGD	O6E-C5E-C6E	4.35	117.24	106.44
27	b	848	BCR	C33-C5-C6	-4.34	119.66	124.53
27	j	102	BCR	C16-C17-C18	-4.31	121.16	127.31
19	6	306	XAT	C15-C14-C13	-4.30	121.18	127.31
19	6	302	XAT	C6-C7-C8	-4.29	116.92	125.99
21	b	836	CLA	CMB-C2B-C1B	-4.29	121.87	128.46
19	5	305	XAT	C35-C34-C33	-4.28	121.20	127.31
23	6	304	A1L1F	C26-C30-C31	-4.28	119.33	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	a	833	CLA	CMB-C2B-C1B	-4.27	121.90	128.46
21	6	314	CLA	CMB-C2B-C1B	-4.27	121.90	128.46
27	b	845	BCR	C15-C14-C13	-4.27	121.22	127.31
21	a	844	CLA	CMB-C2B-C1B	-4.27	121.91	128.46
23	9	302	A1L1F	C14-C29-C30	-4.26	117.96	125.47
27	b	844	BCR	C15-C14-C13	-4.25	121.25	127.31
19	5	301	XAT	C6-C7-C8	-4.25	117.01	125.99
21	a	826	CLA	CMB-C2B-C1B	-4.24	121.94	128.46
25	4	318	DGD	O2G-C1B-C2B	4.24	120.64	111.50
21	4	313	CLA	CMB-C2B-C1B	-4.24	121.94	128.46
21	b	825	CLA	CMB-C2B-C1B	-4.24	121.95	128.46
21	8	305	CLA	CMB-C2B-C1B	-4.24	121.95	128.46
27	b	853	BCR	C15-C14-C13	-4.23	121.27	127.31
19	4	301	XAT	C15-C14-C13	-4.22	121.29	127.31
19	7	303	XAT	C15-C14-C13	-4.21	121.30	127.31
19	9	304	XAT	C18-C5-C4	4.21	119.02	114.28
24	a	845	LHG	O7-C7-C8	4.21	120.58	111.50
27	b	847	BCR	C24-C23-C22	-4.21	119.87	126.23
21	8	311	CLA	CMB-C2B-C1B	-4.21	121.99	128.46
27	b	853	BCR	C33-C5-C6	-4.21	119.80	124.53
27	f	804	BCR	C24-C23-C22	-4.21	119.88	126.23
26	b	842	PQN	C11-C12-C13	-4.21	119.79	126.79
20	9	301	A1L1G	C37-C36-C35	4.20	132.08	123.47
23	h	202	A1L1F	C41-C42-C44	-4.19	121.33	127.31
19	4	304	XAT	C35-C34-C33	-4.19	121.33	127.31
21	6	309	CLA	CMB-C2B-C1B	-4.19	122.03	128.46
21	a	820	CLA	CMB-C2B-C1B	-4.19	122.03	128.46
21	a	809	CLA	CMB-C2B-C1B	-4.18	122.03	128.46
21	7	308	CLA	CMB-C2B-C1B	-4.18	122.04	128.46
27	b	846	BCR	C16-C17-C18	-4.18	121.35	127.31
19	6	305	XAT	C27-C28-C29	-4.18	119.05	125.53
27	b	850	BCR	C33-C5-C6	-4.17	119.85	124.53
23	1	304	A1L1F	O7-C54-C56	4.17	118.75	111.09
21	a	823	CLA	CMB-C2B-C1B	-4.16	122.06	128.46
21	b	814	CLA	CMB-C2B-C1B	-4.16	122.07	128.46
27	i	102	BCR	C20-C21-C22	-4.16	121.38	127.31
27	j	102	BCR	C7-C8-C9	-4.16	119.95	126.23
21	a	829	CLA	CMB-C2B-C1B	-4.15	122.09	128.46
19	4	305	XAT	C35-C34-C33	-4.15	121.39	127.31
23	8	304	A1L1F	C32-C31-C30	-4.14	121.36	127.26
23	8	304	A1L1F	C41-C40-C39	-4.14	114.79	126.42
21	1	307	CLA	CMB-C2B-C1B	-4.14	122.10	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	1	304	A1L1F	C37-C38-C39	-4.13	121.41	127.31
21	a	806	CLA	CMB-C2B-C1B	-4.13	122.12	128.46
21	6	313	CLA	CMB-C2B-C1B	-4.12	122.14	128.46
19	7	305	XAT	C11-C10-C9	-4.11	121.44	127.31
29	a	855	LMG	O7-C10-C11	4.11	120.36	111.50
21	8	308	CLA	CMB-C2B-C1B	-4.11	122.15	128.46
27	i	102	BCR	C38-C26-C25	-4.10	119.92	124.53
23	1	304	A1L1F	C17-C20-C21	4.10	118.89	114.28
21	a	816	CLA	CMB-C2B-C1B	-4.09	122.17	128.46
21	b	832	CLA	CMB-C2B-C1B	-4.09	122.18	128.46
21	7	316	CLA	CMB-C2B-C1B	-4.09	122.19	128.46
27	b	847	BCR	C20-C21-C22	-4.09	121.48	127.31
24	b	849	LHG	O7-C7-C8	4.08	120.29	111.50
27	b	847	BCR	C16-C15-C14	-4.08	115.12	123.47
27	f	804	BCR	C7-C8-C9	-4.08	120.08	126.23
27	f	801	BCR	C3-C4-C5	-4.08	106.80	114.08
27	a	850	BCR	C38-C26-C25	-4.08	119.95	124.53
21	b	810	CLA	CMB-C2B-C1B	-4.07	122.20	128.46
21	9	309	CLA	CMB-C2B-C1B	-4.07	122.21	128.46
21	5	308	CLA	CMB-C2B-C1B	-4.06	122.22	128.46
27	b	847	BCR	C7-C8-C9	-4.06	120.10	126.23
27	b	843	BCR	C28-C27-C26	-4.06	106.83	114.08
19	5	301	XAT	C15-C14-C13	-4.05	121.53	127.31
27	a	848	BCR	C11-C10-C9	-4.05	121.53	127.31
21	b	821	CLA	CMB-C2B-C1B	-4.04	122.25	128.46
21	a	803	CLA	CMB-C2B-C1B	-4.04	122.26	128.46
21	a	839	CLA	CMB-C2B-C1B	-4.02	122.28	128.46
21	5	312	CLA	CMB-C2B-C1B	-4.02	122.29	128.46
21	b	809	CLA	CMB-C2B-C1B	-4.02	122.29	128.46
21	a	805	CLA	CMB-C2B-C1B	-4.02	122.29	128.46
19	4	305	XAT	C6-C7-C8	-4.01	117.51	125.99
21	a	804	CLA	CMB-C2B-C1B	-4.01	122.31	128.46
19	5	302	XAT	C11-C10-C9	-4.00	121.60	127.31
23	6	301	A1L1F	C8-O7-C54	-4.00	110.45	117.90
27	a	847	BCR	C38-C26-C25	-3.99	120.05	124.53
21	8	310	CLA	CMB-C2B-C1B	-3.99	122.33	128.46
21	b	805	CLA	CMB-C2B-C1B	-3.99	122.33	128.46
24	m	101	LHG	O7-C7-C8	3.99	120.09	111.50
19	7	303	XAT	C6-C7-C8	-3.99	117.57	125.99
27	b	847	BCR	C15-C14-C13	-3.98	121.62	127.31
21	8	307	CLA	CMB-C2B-C1B	-3.98	122.34	128.46
23	6	301	A1L1F	C37-C38-C39	-3.98	121.63	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	7	311	CLA	CMB-C2B-C1B	-3.98	122.35	128.46
27	b	847	BCR	C28-C27-C26	-3.98	106.97	114.08
27	i	101	BCR	C7-C8-C9	-3.98	120.22	126.23
21	9	312	CLA	CMB-C2B-C1B	-3.98	122.35	128.46
23	8	304	A1L1F	C37-C36-C35	-3.97	115.33	123.47
21	b	826	CLA	CMB-C2B-C1B	-3.97	122.36	128.46
23	6	304	A1L1F	C36-C35-C34	-3.97	121.64	127.31
24	a	846	LHG	O7-C7-C8	3.97	120.05	111.50
21	a	838	CLA	CMB-C2B-C1B	-3.97	122.37	128.46
27	f	804	BCR	C33-C5-C6	-3.96	120.08	124.53
21	b	806	CLA	CMB-C2B-C1B	-3.96	122.38	128.46
19	1	303	XAT	C26-C27-C28	-3.96	117.62	125.99
21	b	831	CLA	CMB-C2B-C1B	-3.96	122.38	128.46
19	6	303	XAT	C26-C27-C28	-3.95	117.64	125.99
19	9	304	XAT	C18-C5-C6	-3.95	115.65	122.26
19	4	301	XAT	C35-C34-C33	-3.94	121.68	127.31
19	4	305	XAT	C11-C10-C9	-3.94	121.69	127.31
21	4	308	CLA	CMB-C2B-C1B	-3.94	122.42	128.46
21	a	852	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
27	b	853	BCR	C11-C10-C9	-3.93	121.70	127.31
29	j	103	LMG	O7-C10-C11	3.93	119.97	111.50
21	b	816	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
19	a	854	XAT	C31-C30-C29	-3.93	121.70	127.31
21	f	802	CLA	CMB-C2B-C1B	-3.92	122.43	128.46
21	8	312	CLA	CMB-C2B-C1B	-3.91	122.45	128.46
19	a	853	XAT	C15-C14-C13	-3.91	121.73	127.31
23	6	304	A1L1F	C37-C38-C39	-3.91	121.73	127.31
21	a	822	CLA	CMB-C2B-C1B	-3.91	122.46	128.46
21	1	308	CLA	CMB-C2B-C1B	-3.90	122.47	128.46
21	b	813	CLA	CMB-C2B-C1B	-3.90	122.47	128.46
19	4	303	XAT	C15-C14-C13	-3.90	121.74	127.31
19	7	301	XAT	C15-C14-C13	-3.90	121.75	127.31
21	9	314	CLA	CMB-C2B-C1B	-3.89	122.48	128.46
21	7	313	CLA	CMB-C2B-C1B	-3.89	122.48	128.46
27	f	804	BCR	C20-C21-C22	-3.88	121.77	127.31
21	b	803	CLA	O2D-CGD-O1D	-3.88	116.25	123.84
21	b	817	CLA	CMB-C2B-C3B	3.85	131.89	124.68
21	1	306	CLA	CMB-C2B-C1B	-3.85	122.54	128.46
21	a	815	CLA	CMB-C2B-C1B	-3.85	122.54	128.46
21	a	827	CLA	CMB-C2B-C1B	-3.85	122.55	128.46
23	6	304	A1L1F	C17-C20-C21	3.85	118.61	114.28
27	i	102	BCR	C16-C17-C18	-3.85	121.82	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	f	804	BCR	C38-C26-C25	-3.85	120.21	124.53
27	b	853	BCR	C16-C17-C18	-3.84	121.82	127.31
21	b	815	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
25	8	315	DGD	O2G-C1B-C2B	3.84	119.78	111.50
21	5	313	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
27	a	847	BCR	C20-C21-C22	-3.84	121.83	127.31
21	4	309	CLA	CMB-C2B-C1B	-3.84	122.57	128.46
19	6	306	XAT	C27-C28-C29	-3.84	119.58	125.53
20	1	301	A1L1G	C37-C36-C35	3.83	131.32	123.47
21	a	811	CLA	CMB-C2B-C1B	-3.83	122.58	128.46
21	5	315	CLA	CMB-C2B-C1B	-3.83	122.58	128.46
21	7	310	CLA	CMB-C2B-C1B	-3.82	122.59	128.46
27	i	102	BCR	C33-C5-C6	-3.80	120.26	124.53
19	5	302	XAT	C15-C14-C13	-3.80	121.88	127.31
27	j	102	BCR	C20-C21-C22	-3.80	121.89	127.31
21	a	814	CLA	CMB-C2B-C1B	-3.79	122.63	128.46
21	h	201	CLA	CMB-C2B-C1B	-3.79	122.63	128.46
21	l	201	CLA	CMB-C2B-C1B	-3.79	122.64	128.46
21	l	202	CLA	CMB-C2B-C1B	-3.79	122.64	128.46
21	a	806	CLA	O2D-CGD-O1D	-3.78	116.44	123.84
21	b	827	CLA	CMB-C2B-C1B	-3.77	122.67	128.46
22	1	315	SQD	O47-C7-C8	3.77	119.63	111.50
21	9	308	CLA	CMB-C2B-C1B	-3.77	122.67	128.46
27	f	804	BCR	C16-C17-C18	-3.77	121.93	127.31
21	9	310	CLA	CMB-C2B-C1B	-3.77	122.68	128.46
27	a	849	BCR	C28-C27-C26	-3.76	107.36	114.08
21	5	316	CLA	CMB-C2B-C1B	-3.76	122.68	128.46
21	a	812	CLA	CMB-C2B-C1B	-3.76	122.69	128.46
21	b	824	CLA	CMB-C2B-C1B	-3.76	122.69	128.46
27	b	848	BCR	C15-C14-C13	-3.76	121.95	127.31
21	a	830	CLA	CMB-C2B-C1B	-3.75	122.70	128.46
19	1	303	XAT	C35-C34-C33	-3.75	121.96	127.31
21	9	315	CLA	CMB-C2B-C1B	-3.74	122.71	128.46
23	h	202	A1L1F	C36-C35-C34	-3.74	121.97	127.31
27	b	846	BCR	C15-C14-C13	-3.74	121.97	127.31
21	1	311	CLA	CMB-C2B-C1B	-3.74	122.72	128.46
27	a	850	BCR	C33-C5-C6	-3.74	120.33	124.53
19	8	301	XAT	C15-C14-C13	-3.74	121.97	127.31
21	1	310	CLA	CMB-C2B-C1B	-3.74	122.72	128.46
21	7	312	CLA	CMB-C2B-C1B	-3.74	122.72	128.46
21	b	804	CLA	CMB-C2B-C1B	-3.73	122.73	128.46
27	f	801	BCR	C16-C15-C14	-3.73	115.83	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	9	302	A1L1F	O15-C20-C17	3.73	119.52	115.06
20	5	304	A1L1G	C36-C37-C38	3.71	131.08	123.47
19	9	305	XAT	C15-C14-C13	-3.71	122.01	127.31
21	a	837	CLA	CMB-C2B-C1B	-3.71	122.77	128.46
19	a	854	XAT	C35-C34-C33	-3.70	122.02	127.31
21	b	830	CLA	CMB-C2B-C1B	-3.70	122.78	128.46
20	9	306	A1L1G	C37-C36-C35	3.69	131.04	123.47
19	4	301	XAT	C26-C27-C28	-3.69	118.19	125.99
21	a	803	CLA	CMB-C2B-C3B	3.69	131.58	124.68
21	b	835	CLA	CMB-C2B-C1B	-3.69	122.79	128.46
21	5	310	CLA	CMB-C2B-C1B	-3.69	122.80	128.46
21	7	306	CLA	CMB-C2B-C1B	-3.68	122.80	128.46
21	a	828	CLA	CMB-C2B-C1B	-3.68	122.80	128.46
27	a	849	BCR	C20-C21-C22	-3.68	122.06	127.31
19	4	301	XAT	C31-C30-C29	-3.68	122.06	127.31
27	b	844	BCR	C3-C4-C5	-3.68	107.51	114.08
21	h	203	CLA	CMB-C2B-C1B	-3.67	122.82	128.46
23	6	301	A1L1F	C42-C41-C40	-3.67	111.76	123.22
21	a	826	CLA	CMB-C2B-C3B	3.67	131.54	124.68
21	a	821	CLA	CMB-C2B-C1B	-3.67	122.83	128.46
21	b	803	CLA	CMB-C2B-C1B	-3.66	122.83	128.46
21	6	308	CLA	CMB-C2B-C1B	-3.66	122.84	128.46
27	b	850	BCR	C7-C8-C9	-3.66	120.71	126.23
19	7	304	XAT	C6-C7-C8	-3.65	118.27	125.99
21	b	837	CLA	CMB-C2B-C1B	-3.65	122.86	128.46
19	8	301	XAT	C6-C7-C8	-3.64	118.29	125.99
21	b	820	CLA	CMB-C2B-C1B	-3.64	122.86	128.46
19	6	302	XAT	C26-C27-C28	-3.64	118.29	125.99
20	7	302	A1L1G	C37-C36-C35	3.64	130.93	123.47
19	9	305	XAT	C31-C30-C29	-3.64	122.12	127.31
21	7	309	CLA	CMB-C2B-C1B	-3.63	122.89	128.46
21	b	836	CLA	CMB-C2B-C3B	3.62	131.46	124.68
21	b	812	CLA	CMB-C2B-C1B	-3.62	122.90	128.46
19	1	302	XAT	C11-C10-C9	-3.62	122.15	127.31
21	a	802	CLA	CMB-C2B-C3B	3.62	131.44	124.68
23	9	302	A1L1F	C32-C31-C30	-3.61	122.12	127.26
19	4	302	XAT	C35-C15-C14	-3.61	116.08	123.47
21	b	839	CLA	CMB-C2B-C1B	-3.61	122.92	128.46
21	8	309	CLA	CMB-C2B-C1B	-3.61	122.92	128.46
21	a	808	CLA	CMB-C2B-C1B	-3.60	122.92	128.46
19	8	301	XAT	C11-C10-C9	-3.60	122.17	127.31
27	a	849	BCR	C11-C10-C9	-3.60	122.17	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	4	310	CLA	CMB-C2B-C1B	-3.60	122.93	128.46
21	b	811	CLA	CMB-C2B-C1B	-3.59	122.94	128.46
27	b	847	BCR	C3-C4-C5	-3.59	107.66	114.08
21	b	834	CLA	CMB-C2B-C1B	-3.59	122.94	128.46
21	8	305	CLA	CMB-C2B-C3B	3.59	131.40	124.68
21	6	310	CLA	CMB-C2B-C1B	-3.59	122.95	128.46
21	b	828	CLA	CMB-C2B-C1B	-3.58	122.96	128.46
20	9	301	A1L1G	C27-C34-C35	-3.58	117.91	122.92
21	a	809	CLA	CMB-C2B-C3B	3.58	131.38	124.68
21	a	829	CLA	CMB-C2B-C3B	3.58	131.37	124.68
27	i	102	BCR	C11-C10-C9	-3.58	122.20	127.31
21	a	844	CLA	CMB-C2B-C3B	3.58	131.37	124.68
21	6	314	CLA	CMB-C2B-C3B	3.57	131.37	124.68
21	7	308	CLA	CMB-C2B-C3B	3.57	131.36	124.68
23	6	304	A1L1F	C32-C31-C30	-3.57	122.18	127.26
27	i	102	BCR	C3-C4-C5	-3.57	107.70	114.08
21	b	807	CLA	CMB-C2B-C1B	-3.57	122.98	128.46
27	a	847	BCR	C33-C5-C6	-3.57	120.52	124.53
19	8	303	XAT	C15-C35-C34	-3.56	116.18	123.47
20	9	301	A1L1G	C36-C37-C38	3.56	130.76	123.47
21	a	835	CLA	CMB-C2B-C1B	-3.56	123.00	128.46
21	8	311	CLA	CMB-C2B-C3B	3.56	131.33	124.68
21	b	814	CLA	CMB-C2B-C3B	3.55	131.33	124.68
19	6	303	XAT	C7-C8-C9	-3.55	120.02	125.53
21	1	312	CLA	CMB-C2B-C1B	-3.55	123.00	128.46
21	a	832	CLA	CMB-C2B-C1B	-3.55	123.01	128.46
21	b	811	CLA	CAB-C3B-C4B	-3.55	123.01	128.46
21	8	306	CLA	CMB-C2B-C1B	-3.54	123.02	128.46
21	b	822	CLA	CMB-C2B-C1B	-3.54	123.03	128.46
21	l	203	CLA	CMB-C2B-C1B	-3.54	123.03	128.46
27	i	101	BCR	C33-C5-C6	-3.54	120.56	124.53
21	a	833	CLA	CMB-C2B-C3B	3.54	131.29	124.68
21	b	810	CLA	CMB-C2B-C3B	3.54	131.29	124.68
21	b	825	CLA	CMB-C2B-C3B	3.53	131.29	124.68
20	7	302	A1L1G	C36-C37-C38	3.53	130.71	123.47
27	b	844	BCR	C33-C5-C6	-3.53	120.56	124.53
19	9	303	XAT	C11-C10-C9	-3.53	122.27	127.31
19	6	305	XAT	C11-C10-C9	-3.53	122.28	127.31
19	6	305	XAT	C15-C14-C13	-3.53	122.28	127.31
21	b	818	CLA	CMB-C2B-C1B	-3.52	123.05	128.46
19	9	303	XAT	C35-C34-C33	-3.52	122.29	127.31
22	5	317	SQD	O47-C7-C8	3.52	119.08	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	5	306	CLA	CMB-C2B-C1B	-3.52	123.06	128.46
21	b	832	CLA	CMB-C2B-C3B	3.51	131.25	124.68
21	5	307	CLA	CMB-C2B-C1B	-3.51	123.06	128.46
21	8	308	CLA	CMB-C2B-C3B	3.51	131.24	124.68
21	a	806	CLA	CAA-CBA-CGA	-3.50	103.03	113.25
21	a	823	CLA	CMB-C2B-C3B	3.50	131.22	124.68
27	b	850	BCR	C38-C26-C25	-3.50	120.60	124.53
21	a	813	CLA	CMB-C2B-C1B	-3.50	123.09	128.46
27	a	847	BCR	C15-C14-C13	-3.50	122.32	127.31
21	b	803	CLA	CHB-C4A-NA	3.50	129.34	124.51
20	9	306	A1L1G	C36-C37-C38	3.49	130.63	123.47
21	4	313	CLA	CMB-C2B-C3B	3.49	131.21	124.68
21	a	831	CLA	CMB-C2B-C3B	3.49	131.21	124.68
21	a	842	CLA	CMB-C2B-C1B	-3.49	123.10	128.46
19	4	303	XAT	C35-C34-C33	-3.49	122.33	127.31
21	5	314	CLA	CMB-C2B-C1B	-3.49	123.11	128.46
19	8	302	XAT	C31-C30-C29	-3.49	122.34	127.31
27	a	849	BCR	C4-C5-C6	-3.49	117.67	122.73
21	b	826	CLA	CMB-C2B-C3B	3.48	131.20	124.68
21	9	316	CLA	CMB-C2B-C1B	-3.48	123.11	128.46
19	6	303	XAT	C35-C34-C33	-3.48	122.34	127.31
21	5	309	CLA	CMB-C2B-C1B	-3.48	123.12	128.46
19	4	302	XAT	C11-C10-C9	-3.48	122.34	127.31
20	7	302	A1L1G	C27-C34-C35	-3.48	118.05	122.92
21	4	314	CLA	CMB-C2B-C1B	-3.48	123.12	128.46
27	a	847	BCR	C7-C8-C9	-3.48	120.98	126.23
21	1	305	CLA	CMB-C2B-C1B	-3.47	123.12	128.46
21	1	309	CLA	CMB-C2B-C1B	-3.47	123.12	128.46
21	6	309	CLA	CMB-C2B-C3B	3.47	131.18	124.68
21	b	833	CLA	CMB-C2B-C1B	-3.47	123.13	128.46
27	b	846	BCR	C24-C23-C22	-3.47	120.99	126.23
21	b	823	CLA	CMB-C2B-C1B	-3.47	123.13	128.46
27	a	848	BCR	C24-C23-C22	-3.47	121.00	126.23
21	4	315	CLA	CMB-C2B-C1B	-3.46	123.14	128.46
20	9	306	A1L1G	C27-C34-C35	-3.46	118.07	122.92
21	9	313	CLA	CMB-C2B-C1B	-3.46	123.14	128.46
21	a	852	CLA	CMB-C2B-C3B	3.46	131.15	124.68
27	a	847	BCR	C24-C23-C22	-3.46	121.01	126.23
21	b	838	CLA	CMB-C2B-C1B	-3.46	123.15	128.46
27	i	101	BCR	C28-C27-C26	-3.45	107.91	114.08
23	9	302	A1L1F	C37-C38-C39	-3.45	122.38	127.31
21	a	805	CLA	CMB-C2B-C3B	3.45	131.13	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	1	303	XAT	C15-C14-C13	-3.45	122.39	127.31
21	6	307	CLA	CMB-C2B-C1B	-3.45	123.17	128.46
21	a	807	CLA	CMB-C2B-C1B	-3.45	123.17	128.46
21	a	841	CLA	CMB-C2B-C1B	-3.44	123.17	128.46
21	9	312	CLA	CAA-C2A-C3A	-3.44	103.35	112.78
19	7	304	XAT	C31-C30-C29	-3.44	122.40	127.31
21	a	817	CLA	CMB-C2B-C1B	-3.44	123.18	128.46
21	b	808	CLA	CMB-C2B-C1B	-3.44	123.18	128.46
21	a	806	CLA	CMB-C2B-C3B	3.44	131.11	124.68
27	a	848	BCR	C20-C21-C22	-3.43	122.41	127.31
19	6	303	XAT	C31-C30-C29	-3.43	122.41	127.31
27	a	849	BCR	C7-C8-C9	-3.43	121.06	126.23
21	9	312	CLA	CMB-C2B-C3B	3.43	131.09	124.68
21	9	314	CLA	O2D-CGD-O1D	-3.43	117.14	123.84
20	5	304	A1L1G	C28-C39-C38	-3.43	118.12	122.92
21	4	307	CLA	CMB-C2B-C1B	-3.42	123.20	128.46
21	a	820	CLA	CMB-C2B-C3B	3.42	131.08	124.68
21	6	312	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
20	7	302	A1L1G	C28-C39-C38	-3.42	118.14	122.92
21	8	313	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
21	a	825	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
21	a	840	CLA	CMB-C2B-C1B	-3.42	123.22	128.46
21	j	101	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
21	6	313	CLA	CMB-C2B-C3B	3.41	131.06	124.68
20	9	306	A1L1G	C28-C39-C38	-3.41	118.14	122.92
21	a	819	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
20	9	301	A1L1G	C28-C39-C38	-3.41	118.15	122.92
21	7	316	CLA	CMB-C2B-C3B	3.41	131.06	124.68
21	b	819	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
20	1	301	A1L1G	C27-C34-C35	-3.41	118.15	122.92
21	4	316	CLA	CMB-C2B-C1B	-3.41	123.23	128.46
21	a	816	CLA	CMB-C2B-C3B	3.41	131.05	124.68
19	5	303	XAT	C6-C7-C8	-3.40	118.79	125.99
24	a	846	LHG	O8-C23-C24	3.40	120.31	111.38
21	a	810	CLA	CMB-C2B-C1B	-3.40	123.23	128.46
21	6	311	CLA	CMB-C2B-C1B	-3.40	123.24	128.46
21	a	856	CLA	CMB-C2B-C1B	-3.40	123.24	128.46
20	1	301	A1L1G	C28-C39-C38	-3.40	118.17	122.92
21	4	317	CLA	CMB-C2B-C1B	-3.40	123.24	128.46
21	6	316	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
21	1	313	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
21	b	806	CLA	CMB-C2B-C3B	3.39	131.03	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	4	306	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
19	9	304	XAT	C35-C34-C33	-3.39	122.47	127.31
21	1	307	CLA	CMB-C2B-C3B	3.39	131.02	124.68
21	a	818	CLA	CMB-C2B-C1B	-3.39	123.26	128.46
21	8	314	CLA	CMB-C2B-C1B	-3.39	123.26	128.46
24	9	307	LHG	O7-C7-C8	3.38	120.24	110.80
21	5	311	CLA	CMB-C2B-C1B	-3.38	123.26	128.46
21	b	831	CLA	CMB-C2B-C3B	3.38	131.00	124.68
21	b	821	CLA	CMB-C2B-C3B	3.38	131.00	124.68
21	5	312	CLA	CMB-C2B-C3B	3.38	131.00	124.68
21	1	314	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
23	1	304	A1L1F	C8-O7-C54	-3.37	111.61	117.90
21	7	317	CLA	CMB-C2B-C1B	-3.37	123.28	128.46
21	4	312	CLA	CMB-C2B-C1B	-3.37	123.28	128.46
19	5	302	XAT	C7-C8-C9	-3.37	120.30	125.53
27	a	847	BCR	C11-C10-C9	-3.37	122.50	127.31
21	b	813	CLA	CMB-C2B-C3B	3.36	130.97	124.68
19	a	853	XAT	C10-C11-C12	-3.36	112.72	123.22
19	8	303	XAT	C30-C31-C32	-3.36	112.72	123.22
21	b	805	CLA	CMB-C2B-C3B	3.36	130.97	124.68
27	a	849	BCR	C24-C23-C22	-3.36	121.16	126.23
21	b	829	CLA	CMB-C2B-C3B	3.36	130.96	124.68
21	5	308	CLA	CMB-C2B-C3B	3.36	130.96	124.68
27	b	847	BCR	C10-C11-C12	-3.35	112.75	123.22
21	a	804	CLA	CMB-C2B-C3B	3.35	130.95	124.68
19	6	303	XAT	C11-C10-C9	-3.35	122.53	127.31
27	b	850	BCR	C11-C10-C9	-3.35	122.53	127.31
21	4	308	CLA	CMB-C2B-C3B	3.35	130.94	124.68
21	7	314	CLA	CMB-C2B-C1B	-3.34	123.33	128.46
21	7	315	CLA	CMB-C2B-C1B	-3.34	123.33	128.46
19	5	302	XAT	C6-C7-C8	-3.34	118.93	125.99
21	f	803	CLA	CMB-C2B-C1B	-3.34	123.33	128.46
20	9	301	A1L1G	C33-C34-C35	3.34	124.06	118.94
23	8	304	A1L1F	C31-C32-C33	-3.34	112.80	123.22
20	5	304	A1L1G	C27-C34-C35	-3.34	118.25	122.92
23	8	304	A1L1F	C14-C29-C30	-3.34	119.59	125.47
19	1	303	XAT	C24-C23-C22	-3.33	104.33	110.77
21	7	307	CLA	CMB-C2B-C1B	-3.33	123.34	128.46
21	8	307	CLA	CMB-C2B-C3B	3.33	130.91	124.68
20	1	301	A1L1G	C36-C37-C38	3.33	130.30	123.47
21	f	802	CLA	CMB-C2B-C3B	3.33	130.91	124.68
21	b	801	CLA	CMB-C2B-C1B	-3.33	123.35	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	803	CLA	CMB-C2B-C3B	3.33	130.91	124.68
21	b	816	CLA	CMB-C2B-C3B	3.33	130.91	124.68
21	a	838	CLA	CMB-C2B-C3B	3.33	130.91	124.68
21	a	824	CLA	CMB-C2B-C1B	-3.33	123.35	128.46
21	a	834	CLA	CMB-C2B-C1B	-3.33	123.35	128.46
20	5	304	A1L1G	C37-C36-C35	3.32	130.27	123.47
21	6	315	CLA	CMB-C2B-C1B	-3.32	123.37	128.46
26	a	843	PQN	C14-C13-C15	3.32	120.85	115.27
20	9	306	A1L1G	C33-C34-C35	3.32	124.03	118.94
21	9	309	CLA	CMB-C2B-C3B	3.31	130.87	124.68
21	1	308	CLA	CMB-C2B-C3B	3.31	130.87	124.68
19	5	305	XAT	C24-C23-C22	-3.31	104.38	110.77
21	a	827	CLA	CMB-C2B-C3B	3.31	130.87	124.68
23	9	302	A1L1F	C25-C14-C29	-3.31	119.00	125.99
27	a	847	BCR	C3-C4-C5	-3.31	108.17	114.08
27	i	101	BCR	C15-C14-C13	-3.30	122.60	127.31
23	6	304	A1L1F	C14-C29-C30	-3.30	119.65	125.47
19	1	303	XAT	C31-C30-C29	-3.29	122.61	127.31
21	b	841	CLA	CMB-C2B-C1B	-3.29	123.41	128.46
19	6	305	XAT	C7-C8-C9	-3.29	120.42	125.53
25	b	851	DGD	C2G-O2G-C1B	-3.29	109.69	117.79
21	9	311	CLA	CMB-C2B-C1B	-3.29	123.41	128.46
21	9	311	CLA	O2D-CGD-O1D	-3.29	117.41	123.84
21	5	313	CLA	O2D-CGD-O1D	-3.29	117.41	123.84
21	a	839	CLA	CMB-C2B-C3B	3.29	130.82	124.68
19	9	305	XAT	C38-C25-C26	-3.28	116.76	122.26
19	4	303	XAT	C6-C7-C8	-3.28	119.05	125.99
19	5	302	XAT	C24-C23-C22	-3.27	104.46	110.77
19	5	301	XAT	C11-C10-C9	-3.27	122.64	127.31
21	4	309	CLA	CMB-C2B-C3B	3.26	130.79	124.68
21	7	313	CLA	CMB-C2B-C3B	3.26	130.78	124.68
21	4	311	CLA	CMB-C2B-C1B	-3.26	123.45	128.46
21	8	312	CLA	CMB-C2B-C3B	3.26	130.78	124.68
19	9	305	XAT	C8-C9-C10	3.25	123.93	118.94
27	j	102	BCR	C24-C23-C22	-3.25	121.32	126.23
19	5	305	XAT	C4-C3-C2	-3.25	104.49	110.77
19	9	304	XAT	C11-C10-C9	-3.25	122.67	127.31
23	1	304	A1L1F	C14-C29-C30	-3.25	119.74	125.47
27	a	850	BCR	C7-C8-C9	-3.25	121.33	126.23
27	b	846	BCR	C20-C21-C22	-3.25	122.67	127.31
21	9	314	CLA	CMB-C2B-C3B	3.24	130.74	124.68
21	a	822	CLA	CMB-C2B-C3B	3.24	130.73	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	9	315	CLA	CMB-C2B-C3B	3.23	130.73	124.68
21	h	201	CLA	CMB-C2B-C3B	3.23	130.73	124.68
21	5	315	CLA	CMB-C2B-C3B	3.23	130.73	124.68
21	a	815	CLA	CMB-C2B-C3B	3.23	130.73	124.68
23	h	202	A1L1F	C17-C20-C21	3.23	117.92	114.28
21	7	311	CLA	CMB-C2B-C3B	3.23	130.72	124.68
21	8	310	CLA	CMB-C2B-C3B	3.23	130.72	124.68
23	8	304	A1L1F	C26-C30-C31	-3.22	120.72	124.93
27	b	853	BCR	C24-C23-C22	-3.22	121.36	126.23
20	1	301	A1L1G	C43-C44-C42	-3.22	118.41	122.92
20	1	301	A1L1G	C33-C34-C35	3.22	123.88	118.94
23	h	202	A1L1F	C31-C32-C33	-3.22	113.17	123.22
21	a	830	CLA	CMB-C2B-C3B	3.21	130.68	124.68
27	i	101	BCR	C11-C10-C9	-3.21	122.73	127.31
27	a	848	BCR	C33-C5-C6	-3.21	120.92	124.53
21	1	306	CLA	CMB-C2B-C3B	3.21	130.68	124.68
21	a	836	CLA	CMB-C2B-C1B	-3.20	123.54	128.46
21	b	820	CLA	O2D-CGD-O1D	-3.20	117.57	123.84
27	a	850	BCR	C11-C10-C9	-3.20	122.74	127.31
21	b	808	CLA	O2A-CGA-O1A	-3.20	115.51	123.59
19	1	302	XAT	C15-C14-C13	-3.20	122.74	127.31
23	h	202	A1L1F	C37-C36-C35	-3.20	116.92	123.47
27	b	853	BCR	C38-C26-C25	-3.20	120.94	124.53
21	b	827	CLA	CMB-C2B-C3B	3.20	130.66	124.68
21	j	101	CLA	O2D-CGD-O1D	-3.20	117.59	123.84
19	a	854	XAT	C10-C11-C12	-3.20	113.25	123.22
23	6	301	A1L1F	C25-C14-C29	-3.19	119.24	125.99
21	b	815	CLA	CMB-C2B-C3B	3.19	130.65	124.68
19	4	304	XAT	C15-C14-C13	-3.18	122.77	127.31
27	b	852	BCR	C24-C23-C22	-3.18	121.44	126.23
19	a	854	XAT	C11-C10-C9	-3.18	122.78	127.31
21	9	308	CLA	CMB-C2B-C3B	3.17	130.62	124.68
21	a	804	CLA	O2D-CGD-O1D	-3.17	117.63	123.84
21	5	316	CLA	CMB-C2B-C3B	3.17	130.61	124.68
20	5	304	A1L1G	C40-C39-C38	3.17	123.81	118.94
21	a	814	CLA	CMB-C2B-C3B	3.17	130.61	124.68
21	1	310	CLA	CMB-C2B-C3B	3.17	130.61	124.68
21	a	812	CLA	CMB-C2B-C3B	3.17	130.60	124.68
21	5	313	CLA	CMB-C2B-C3B	3.17	130.60	124.68
21	a	828	CLA	CMB-C2B-C3B	3.16	130.60	124.68
21	b	804	CLA	CMB-C2B-C3B	3.16	130.59	124.68
19	6	303	XAT	C6-C7-C8	-3.16	119.31	125.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	840	CLA	CMB-C2B-C1B	-3.16	123.61	128.46
21	9	310	CLA	CMB-C2B-C3B	3.16	130.59	124.68
19	7	305	XAT	C35-C34-C33	-3.16	122.81	127.31
23	6	301	A1L1F	C26-C30-C31	-3.15	120.81	124.93
19	6	303	XAT	C24-C23-C22	-3.15	104.68	110.77
21	b	824	CLA	CMB-C2B-C3B	3.15	130.58	124.68
27	a	848	BCR	C38-C26-C25	-3.15	120.99	124.53
21	7	316	CLA	O2D-CGD-O1D	-3.15	117.68	123.84
19	4	303	XAT	C24-C23-C22	-3.15	104.69	110.77
21	a	818	CLA	O2D-CGD-O1D	-3.15	117.69	123.84
21	1	311	CLA	CMB-C2B-C3B	3.15	130.56	124.68
19	9	303	XAT	C6-C7-C8	-3.15	119.34	125.99
21	5	310	CLA	CMB-C2B-C3B	3.14	130.56	124.68
21	b	809	CLA	CMB-C2B-C3B	3.14	130.56	124.68
21	a	835	CLA	O2D-CGD-O1D	-3.14	117.70	123.84
21	1	313	CLA	O2D-CGD-O1D	-3.14	117.70	123.84
27	b	848	BCR	C10-C11-C12	-3.14	113.42	123.22
27	b	844	BCR	C16-C17-C18	-3.14	122.83	127.31
21	a	811	CLA	CMB-C2B-C3B	3.14	130.55	124.68
19	9	304	XAT	C24-C23-C22	-3.14	104.71	110.77
19	9	303	XAT	C24-C23-C22	-3.13	104.72	110.77
19	4	304	XAT	C24-C23-C22	-3.13	104.72	110.77
20	7	302	A1L1G	C33-C34-C35	3.13	123.75	118.94
21	7	312	CLA	CMB-C2B-C3B	3.13	130.53	124.68
21	7	310	CLA	CMB-C2B-C3B	3.12	130.52	124.68
25	4	318	DGD	O1G-C1A-C2A	3.12	121.70	111.91
27	a	848	BCR	C3-C4-C5	-3.12	108.51	114.08
27	a	849	BCR	C38-C26-C25	-3.12	121.03	124.53
27	b	852	BCR	C33-C5-C6	-3.11	121.03	124.53
27	a	849	BCR	C33-C5-C4	3.11	119.59	113.62
19	a	854	XAT	C35-C15-C14	-3.11	117.11	123.47
20	7	302	A1L1G	C40-C39-C38	3.10	123.70	118.94
21	b	832	CLA	O2D-CGD-O1D	-3.10	117.77	123.84
21	1	201	CLA	CMB-C2B-C3B	3.10	130.48	124.68
21	b	820	CLA	CMB-C2B-C3B	3.10	130.48	124.68
21	a	837	CLA	CMB-C2B-C3B	3.10	130.47	124.68
20	9	301	A1L1G	C40-C39-C38	3.09	123.69	118.94
20	9	306	A1L1G	C40-C39-C38	3.09	123.69	118.94
20	9	306	A1L1G	C43-C44-C42	-3.09	118.59	122.92
20	1	301	A1L1G	C40-C39-C38	3.09	123.68	118.94
19	8	301	XAT	C24-C23-C22	-3.09	104.81	110.77
21	b	808	CLA	O2D-CGD-O1D	-3.09	117.80	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	7	304	XAT	C24-C23-C22	-3.09	104.81	110.77
21	l	202	CLA	CMB-C2B-C3B	3.09	130.45	124.68
21	7	306	CLA	CMB-C2B-C3B	3.08	130.45	124.68
27	b	846	BCR	C33-C5-C4	3.08	119.54	113.62
19	9	305	XAT	C24-C23-C22	-3.08	104.82	110.77
27	b	846	BCR	C38-C26-C25	-3.08	121.07	124.53
21	a	809	CLA	O2D-CGD-O1D	-3.08	117.82	123.84
27	b	843	BCR	C20-C21-C22	-3.08	122.92	127.31
21	a	803	CLA	C1B-CHB-C4A	-3.08	124.02	130.12
21	h	203	CLA	CMB-C2B-C3B	3.07	130.43	124.68
21	a	852	CLA	C1B-CHB-C4A	-3.07	124.03	130.12
23	8	304	A1L1F	C36-C35-C34	-3.07	122.92	127.31
21	4	311	CLA	O2D-CGD-O1D	-3.07	117.83	123.84
21	b	837	CLA	CMB-C2B-C3B	3.07	130.42	124.68
21	a	821	CLA	CMB-C2B-C3B	3.07	130.42	124.68
21	b	830	CLA	CMB-C2B-C3B	3.07	130.42	124.68
23	8	304	A1L1F	C25-C14-C29	-3.07	119.51	125.99
21	6	308	CLA	CMB-C2B-C3B	3.06	130.41	124.68
19	6	306	XAT	C26-C27-C28	-3.06	119.52	125.99
25	8	315	DGD	O1G-C1A-C2A	3.06	121.51	111.91
19	6	306	XAT	C11-C10-C9	-3.06	122.95	127.31
21	8	308	CLA	O2D-CGD-O1D	-3.06	117.86	123.84
27	a	848	BCR	C8-C7-C6	-3.06	118.62	127.20
21	a	801	CLA	CMB-C2B-C1B	-3.06	123.77	128.46
19	4	304	XAT	C35-C15-C14	-3.05	117.22	123.47
23	9	302	A1L1F	C26-C30-C31	-3.05	120.94	124.93
21	b	812	CLA	CMB-C2B-C3B	3.05	130.39	124.68
21	a	831	CLA	O2D-CGD-O1D	-3.05	117.87	123.84
19	9	305	XAT	C19-C9-C10	-3.05	118.65	122.92
19	1	302	XAT	C31-C30-C29	-3.05	122.96	127.31
27	b	847	BCR	C11-C10-C9	-3.05	122.96	127.31
21	4	307	CLA	O2D-CGD-O1D	-3.04	117.89	123.84
19	4	305	XAT	C24-C23-C22	-3.04	104.90	110.77
21	4	316	CLA	O2D-CGD-O1D	-3.04	117.89	123.84
27	i	102	BCR	C8-C7-C6	-3.04	118.66	127.20
27	b	850	BCR	C15-C14-C13	-3.04	122.97	127.31
20	7	302	A1L1G	C43-C44-C42	-3.03	118.67	122.92
19	5	302	XAT	C31-C30-C29	-3.03	122.99	127.31
21	l	203	CLA	CMB-C2B-C3B	3.03	130.34	124.68
21	b	807	CLA	CMB-C2B-C3B	3.02	130.34	124.68
21	a	835	CLA	CMB-C2B-C3B	3.02	130.33	124.68
19	a	854	XAT	C31-C32-C33	-3.02	117.93	126.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	6	305	XAT	C35-C15-C14	-3.02	117.29	123.47
21	b	835	CLA	CMB-C2B-C3B	3.02	130.33	124.68
23	h	202	A1L1F	C12-C6-C1	-3.02	107.77	110.47
23	9	302	A1L1F	C42-C41-C40	-3.01	113.81	123.22
21	4	309	CLA	O2D-CGD-O1D	-3.01	117.95	123.84
21	8	309	CLA	CMB-C2B-C3B	3.01	130.30	124.68
25	b	851	DGD	O3E-C3E-C2E	-3.01	103.40	110.35
27	b	850	BCR	C16-C15-C14	-3.01	117.32	123.47
19	8	302	XAT	C24-C23-C22	-3.00	104.97	110.77
21	b	822	CLA	CMB-C2B-C3B	3.00	130.29	124.68
21	9	313	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
27	f	801	BCR	C8-C7-C6	-3.00	118.77	127.20
21	7	309	CLA	CMB-C2B-C3B	3.00	130.29	124.68
21	b	834	CLA	CMB-C2B-C3B	3.00	130.29	124.68
21	b	814	CLA	CHB-C4A-NA	3.00	128.66	124.51
21	b	811	CLA	O2D-CGD-O1D	-3.00	117.98	123.84
21	9	310	CLA	O2D-CGD-O1D	-3.00	117.98	123.84
19	6	305	XAT	C24-C23-C22	-2.99	104.99	110.77
21	b	816	CLA	O2D-CGD-O1D	-2.99	118.00	123.84
21	7	314	CLA	CHB-C4A-NA	2.99	128.64	124.51
21	b	814	CLA	O2D-CGD-O1D	-2.98	118.00	123.84
21	a	830	CLA	O2D-CGD-O1D	-2.98	118.00	123.84
21	b	835	CLA	O2D-CGD-O1D	-2.98	118.00	123.84
19	8	303	XAT	C24-C23-C22	-2.98	105.01	110.77
21	b	839	CLA	CMB-C2B-C3B	2.98	130.26	124.68
27	b	848	BCR	C8-C7-C6	-2.98	118.83	127.20
21	4	310	CLA	CMB-C2B-C3B	2.98	130.25	124.68
21	a	812	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
21	b	802	CLA	CMB-C2B-C1B	-2.98	123.89	128.46
21	b	818	CLA	CMB-C2B-C3B	2.98	130.25	124.68
19	8	302	XAT	C6-C7-C8	-2.98	119.70	125.99
27	b	844	BCR	C38-C26-C25	-2.98	121.19	124.53
21	a	839	CLA	O2D-CGD-O1D	-2.97	118.02	123.84
21	6	310	CLA	CMB-C2B-C3B	2.97	130.24	124.68
20	5	304	A1L1G	C33-C34-C35	2.97	123.50	118.94
21	a	807	CLA	CMB-C2B-C3B	2.97	130.24	124.68
23	6	301	A1L1F	C17-C20-C21	2.97	117.62	114.28
21	b	807	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
21	9	314	CLA	O2D-CGD-CBD	2.97	116.54	111.27
21	1	314	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
19	5	301	XAT	C31-C32-C33	-2.97	118.08	126.42
21	5	309	CLA	CMB-C2B-C3B	2.96	130.21	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	a	808	CLA	CMB-C2B-C3B	2.96	130.21	124.68
21	7	314	CLA	CMB-C2B-C3B	2.96	130.21	124.68
21	7	308	CLA	O2D-CGD-O1D	-2.96	118.06	123.84
19	4	303	XAT	C30-C31-C32	-2.95	114.00	123.22
19	6	302	XAT	C24-C23-C22	-2.95	105.07	110.77
27	b	846	BCR	C8-C7-C6	-2.95	118.92	127.20
21	7	313	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
19	9	305	XAT	C27-C28-C29	-2.95	120.95	125.53
27	a	850	BCR	C28-C27-C26	-2.95	108.82	114.08
19	4	301	XAT	C4-C3-C2	-2.95	105.08	110.77
19	1	302	XAT	C35-C15-C14	-2.94	117.44	123.47
21	b	841	CLA	CMB-C2B-C3B	2.94	130.19	124.68
19	7	305	XAT	C4-C3-C2	-2.94	105.09	110.77
19	8	303	XAT	C4-C3-C2	-2.94	105.09	110.77
21	b	818	CLA	O2D-CGD-O1D	-2.94	118.08	123.84
21	6	309	CLA	O2D-CGD-O1D	-2.94	118.08	123.84
21	6	307	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
21	1	311	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
21	4	308	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
21	b	829	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
19	1	302	XAT	C4-C3-C2	-2.93	105.11	110.77
19	6	302	XAT	C11-C12-C13	-2.93	118.18	126.42
19	7	303	XAT	C19-C9-C10	-2.93	118.82	122.92
21	7	315	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
21	b	838	CLA	CMB-C2B-C3B	2.93	130.16	124.68
21	9	313	CLA	CMB-C2B-C3B	2.93	130.16	124.68
21	b	840	CLA	O2D-CGD-O1D	-2.93	118.12	123.84
21	a	817	CLA	O2D-CGD-O1D	-2.92	118.12	123.84
21	8	306	CLA	CMB-C2B-C3B	2.92	130.14	124.68
19	4	304	XAT	C4-C3-C2	-2.92	105.13	110.77
19	5	303	XAT	C24-C23-C22	-2.92	105.14	110.77
21	1	312	CLA	O2D-CGD-O1D	-2.92	118.14	123.84
27	b	852	BCR	C16-C15-C14	-2.91	117.50	123.47
21	6	316	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
21	h	201	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
21	b	837	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
27	b	850	BCR	C23-C24-C25	-2.91	119.04	127.20
21	b	824	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
21	b	833	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
19	6	305	XAT	C31-C32-C33	-2.91	118.25	126.42
21	6	311	CLA	O2D-CGD-O1D	-2.91	118.16	123.84
21	a	820	CLA	O2D-CGD-O1D	-2.90	118.17	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	7	312	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
21	6	313	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
21	a	840	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
19	4	302	XAT	C4-C3-C2	-2.90	105.18	110.77
21	1	313	CLA	CMB-C2B-C3B	2.90	130.10	124.68
20	5	304	A1L1G	C43-C44-C42	-2.90	118.87	122.92
21	a	813	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
21	a	832	CLA	CMB-C2B-C3B	2.89	130.09	124.68
21	b	828	CLA	CMB-C2B-C3B	2.89	130.09	124.68
21	4	312	CLA	O2D-CGD-O1D	-2.89	118.19	123.84
27	b	845	BCR	C38-C26-C25	-2.89	121.28	124.53
27	a	848	BCR	C7-C8-C9	-2.89	121.87	126.23
19	7	305	XAT	C24-C23-C22	-2.89	105.20	110.77
21	b	823	CLA	CMB-C2B-C3B	2.89	130.08	124.68
19	4	302	XAT	C24-C23-C22	-2.88	105.21	110.77
19	1	302	XAT	C24-C23-C22	-2.88	105.21	110.77
19	5	303	XAT	C35-C34-C33	-2.88	123.20	127.31
19	7	301	XAT	C4-C3-C2	-2.88	105.21	110.77
21	b	804	CLA	O2D-CGD-O1D	-2.88	118.21	123.84
21	l	201	CLA	O2D-CGD-O1D	-2.88	118.21	123.84
21	1	305	CLA	CMB-C2B-C3B	2.88	130.06	124.68
21	b	826	CLA	O2D-CGD-O1D	-2.88	118.21	123.84
21	1	309	CLA	CMB-C2B-C3B	2.88	130.06	124.68
21	6	308	CLA	O2D-CGD-O1D	-2.88	118.22	123.84
27	f	801	BCR	C33-C5-C6	-2.88	121.30	124.53
21	b	808	CLA	CMB-C2B-C3B	2.87	130.06	124.68
21	7	310	CLA	O2D-CGD-O1D	-2.87	118.22	123.84
19	5	305	XAT	C5-C4-C3	-2.87	107.06	112.75
21	a	810	CLA	CMB-C2B-C3B	2.87	130.05	124.68
19	5	305	XAT	C19-C9-C8	2.87	122.60	118.08
21	8	310	CLA	O2D-CGD-O1D	-2.87	118.23	123.84
21	b	817	CLA	O2D-CGD-O1D	-2.87	118.23	123.84
27	f	801	BCR	C20-C19-C18	-2.87	118.36	126.42
21	6	316	CLA	CMB-C2B-C3B	2.87	130.04	124.68
21	5	316	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
21	b	827	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
21	1	307	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
27	b	846	BCR	C4-C5-C6	-2.86	118.58	122.73
21	5	310	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
21	a	823	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
21	b	833	CLA	CMB-C2B-C3B	2.86	130.03	124.68
21	b	805	CLA	O2D-CGD-O1D	-2.86	118.25	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	7	307	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
22	5	317	SQD	C44-O6-C1	-2.86	108.16	113.74
21	5	308	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
21	4	315	CLA	CMB-C2B-C3B	2.85	130.02	124.68
21	4	314	CLA	CMB-C2B-C3B	2.85	130.02	124.68
21	8	311	CLA	O2D-CGD-O1D	-2.85	118.26	123.84
21	b	838	CLA	O2D-CGD-O1D	-2.85	118.26	123.84
21	a	841	CLA	CMB-C2B-C3B	2.85	130.01	124.68
19	a	854	XAT	C24-C23-C22	-2.85	105.27	110.77
21	6	310	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
21	a	837	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
21	b	839	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
23	8	304	A1L1F	C11-C1-C6	2.85	122.52	119.70
27	b	848	BCR	C15-C16-C17	-2.85	117.64	123.47
21	8	313	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
21	a	819	CLA	CMB-C2B-C3B	2.85	130.00	124.68
21	a	826	CLA	O2D-CGD-O1D	-2.85	118.28	123.84
21	a	825	CLA	CMB-C2B-C3B	2.84	130.00	124.68
21	a	811	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
21	a	827	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
21	a	833	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
20	9	301	A1L1G	C43-C44-C42	-2.84	118.94	122.92
21	a	825	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
23	8	304	A1L1F	C17-C20-C21	2.83	117.47	114.28
21	8	312	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
19	9	304	XAT	C15-C35-C34	-2.83	117.67	123.47
21	a	841	CLA	CHB-C4A-NA	2.83	128.43	124.51
19	1	303	XAT	C4-C3-C2	-2.83	105.30	110.77
21	a	816	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
21	b	841	CLA	O2D-CGD-O1D	-2.83	118.31	123.84
21	9	315	CLA	O2D-CGD-O1D	-2.83	118.31	123.84
27	b	848	BCR	C21-C20-C19	-2.83	114.39	123.22
27	b	845	BCR	C34-C9-C10	-2.83	118.96	122.92
21	b	803	CLA	C1B-CHB-C4A	-2.83	124.52	130.12
21	8	306	CLA	O2D-CGD-O1D	-2.83	118.31	123.84
21	8	313	CLA	CMB-C2B-C3B	2.83	129.96	124.68
19	a	853	XAT	C4-C3-C2	-2.82	105.32	110.77
21	5	306	CLA	CMB-C2B-C3B	2.82	129.96	124.68
21	6	315	CLA	CMB-C2B-C3B	2.82	129.96	124.68
21	j	101	CLA	CMB-C2B-C3B	2.82	129.96	124.68
21	9	312	CLA	CHB-C4A-NA	2.82	128.41	124.51
21	a	813	CLA	CMB-C2B-C3B	2.82	129.95	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	5	311	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
21	a	844	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
20	1	301	A1L1G	C20-C21-C22	-2.82	107.18	112.75
21	4	317	CLA	CMB-C2B-C3B	2.82	129.95	124.68
19	5	301	XAT	C4-C3-C2	-2.81	105.34	110.77
25	4	318	DGD	O5E-C6E-C5E	-2.81	101.64	111.29
21	9	308	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
21	6	314	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
19	9	303	XAT	C15-C35-C34	-2.81	117.72	123.47
21	a	802	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
21	4	306	CLA	CMB-C2B-C3B	2.81	129.93	124.68
19	4	304	XAT	C11-C10-C9	-2.81	123.30	127.31
21	1	306	CLA	O2D-CGD-O1D	-2.81	118.35	123.84
21	a	817	CLA	CMB-C2B-C3B	2.81	129.93	124.68
21	5	307	CLA	CMB-C2B-C3B	2.80	129.93	124.68
21	a	836	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
21	9	316	CLA	CMB-C2B-C3B	2.80	129.92	124.68
21	b	819	CLA	CMB-C2B-C3B	2.80	129.92	124.68
21	9	311	CLA	CHB-C4A-NA	2.80	128.39	124.51
19	8	303	XAT	C11-C10-C9	-2.80	123.31	127.31
21	1	308	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
21	a	821	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
27	b	847	BCR	C33-C5-C6	-2.80	121.39	124.53
27	b	845	BCR	C37-C22-C21	-2.80	119.01	122.92
21	9	312	CLA	O2D-CGD-O1D	-2.80	118.37	123.84
19	6	305	XAT	O4-C5-C4	2.79	115.48	113.38
21	8	305	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
21	9	314	CLA	C1B-CHB-C4A	-2.79	124.59	130.12
21	a	805	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
21	b	828	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
27	b	843	BCR	C33-C5-C4	2.79	118.98	113.62
21	a	842	CLA	CMB-C2B-C3B	2.79	129.90	124.68
21	a	828	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
26	b	842	PQN	C16-C15-C13	-2.79	106.14	113.45
21	7	315	CLA	CMB-C2B-C3B	2.79	129.90	124.68
21	5	309	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
21	7	306	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
21	a	815	CLA	O2D-CGD-O1D	-2.79	118.39	123.84
21	a	834	CLA	CMB-C2B-C3B	2.79	129.89	124.68
19	6	305	XAT	C26-C27-C28	-2.79	120.10	125.99
21	1	305	CLA	O2D-CGD-O1D	-2.79	118.39	123.84
21	1	314	CLA	CMB-C2B-C3B	2.79	129.89	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	4	313	CLA	O2D-CGD-O1D	-2.79	118.39	123.84
21	l	202	CLA	O2D-CGD-O1D	-2.79	118.39	123.84
19	4	305	XAT	C4-C3-C2	-2.79	105.39	110.77
21	5	314	CLA	CMB-C2B-C3B	2.79	129.89	124.68
27	b	845	BCR	C20-C21-C22	-2.78	123.34	127.31
27	j	102	BCR	C38-C26-C27	2.78	118.97	113.62
21	b	821	CLA	O2D-CGD-O1D	-2.78	118.40	123.84
21	8	314	CLA	CMB-C2B-C3B	2.78	129.88	124.68
21	a	803	CLA	O2D-CGD-O1D	-2.78	118.40	123.84
21	f	803	CLA	CMB-C2B-C3B	2.78	129.88	124.68
19	7	305	XAT	C15-C35-C34	-2.78	117.78	123.47
27	b	850	BCR	C24-C23-C22	-2.78	122.03	126.23
19	5	301	XAT	C26-C27-C28	-2.78	120.12	125.99
21	a	832	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
21	7	317	CLA	CMB-C2B-C3B	2.78	129.88	124.68
19	9	304	XAT	C4-C3-C2	-2.78	105.41	110.77
25	b	851	DGD	C6D-O5D-C1E	2.78	119.17	113.74
23	1	304	A1L1F	C20-C21-C22	-2.78	107.26	112.75
21	6	312	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
21	b	815	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
21	6	311	CLA	CMB-C2B-C3B	2.78	129.87	124.68
19	9	304	XAT	C30-C31-C32	-2.77	114.56	123.22
21	5	313	CLA	O2D-CGD-CBD	2.77	116.19	111.27
27	b	844	BCR	C21-C20-C19	-2.77	114.57	123.22
21	8	307	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
21	a	856	CLA	CMB-C2B-C3B	2.77	129.86	124.68
25	b	851	DGD	O1G-C1A-C2A	2.77	120.60	111.91
21	b	831	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
19	4	302	XAT	C31-C30-C29	-2.76	123.37	127.31
21	h	203	CLA	O2D-CGD-O1D	-2.76	118.44	123.84
21	a	840	CLA	CMB-C2B-C3B	2.76	129.84	124.68
21	5	315	CLA	O2D-CGD-O1D	-2.76	118.44	123.84
23	h	202	A1L1F	C26-C30-C31	-2.76	121.32	124.93
23	1	304	A1L1F	C36-C35-C34	-2.76	123.37	127.31
21	b	811	CLA	CMB-C2B-C3B	2.76	130.09	124.69
21	b	801	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
21	f	803	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
21	4	316	CLA	CMB-C2B-C3B	2.76	129.84	124.68
21	a	820	CLA	C1-C2-C3	-2.76	121.28	126.04
27	b	843	BCR	C24-C23-C22	-2.75	122.08	126.23
21	4	314	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
21	6	307	CLA	CMB-C2B-C3B	2.75	129.83	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	825	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
23	1	304	A1L1F	C26-O13-C45	2.75	121.80	115.68
21	8	314	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
21	b	810	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
21	5	314	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
21	1	310	CLA	O2D-CGD-O1D	-2.74	118.47	123.84
21	b	830	CLA	O2D-CGD-O1D	-2.74	118.47	123.84
23	8	304	A1L1F	O7-C54-O55	-2.74	117.51	122.96
21	b	823	CLA	O2D-CGD-O1D	-2.74	118.47	123.84
21	7	317	CLA	O2D-CGD-O1D	-2.74	118.47	123.84
19	6	303	XAT	C15-C35-C34	-2.74	117.86	123.47
21	f	802	CLA	O2D-CGD-O1D	-2.74	118.48	123.84
21	b	822	CLA	O2D-CGD-O1D	-2.74	118.48	123.84
21	a	829	CLA	C1B-CHB-C4A	-2.74	124.69	130.12
21	9	311	CLA	CMB-C2B-C3B	2.74	129.80	124.68
21	4	312	CLA	CMB-C2B-C3B	2.74	129.80	124.68
27	i	101	BCR	C20-C19-C18	-2.74	118.73	126.42
23	8	304	A1L1F	O13-C45-C47	2.74	120.49	111.91
21	5	311	CLA	CMB-C2B-C3B	2.73	129.79	124.68
21	8	309	CLA	O2D-CGD-O1D	-2.73	118.49	123.84
21	4	307	CLA	CMB-C2B-C3B	2.73	129.79	124.68
21	a	824	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
21	a	819	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
21	a	838	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
21	b	812	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
19	4	301	XAT	C10-C11-C12	-2.73	114.70	123.22
27	a	850	BCR	C38-C26-C27	2.73	118.86	113.62
21	4	306	CLA	O2D-CGD-O1D	-2.73	118.51	123.84
21	b	809	CLA	O2D-CGD-O1D	-2.73	118.51	123.84
19	4	304	XAT	C31-C30-C29	-2.72	123.42	127.31
21	7	315	CLA	CAA-C2A-C3A	-2.72	109.74	116.10
27	b	843	BCR	C23-C24-C25	-2.72	119.56	127.20
27	a	849	BCR	C2-C1-C6	2.72	114.67	110.48
21	1	202	CLA	CHB-C4A-NA	2.72	128.27	124.51
21	7	317	CLA	CHB-C4A-NA	2.72	128.27	124.51
19	8	301	XAT	C7-C8-C9	-2.71	121.32	125.53
27	b	843	BCR	C38-C26-C25	-2.71	121.48	124.53
21	b	801	CLA	CHB-C4A-NA	2.71	128.26	124.51
19	a	853	XAT	C24-C23-C22	-2.71	105.54	110.77
29	a	855	LMG	O8-C28-C29	2.71	120.42	111.91
21	6	312	CLA	CMB-C2B-C3B	2.71	129.75	124.68
21	5	315	CLA	CHB-C4A-NA	2.71	128.26	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	8	303	XAT	C39-C29-C28	2.71	122.35	118.08
27	j	102	BCR	C23-C24-C25	-2.71	119.60	127.20
21	7	311	CLA	O2D-CGD-O1D	-2.71	118.55	123.84
21	9	310	CLA	CHB-C4A-NA	2.70	128.25	124.51
23	9	302	A1L1F	O13-C45-C47	2.70	120.39	111.91
26	b	842	PQN	C2M-C2-C3	-2.70	119.99	124.40
23	h	202	A1L1F	C8-O7-C54	-2.70	112.86	117.90
19	a	853	XAT	C31-C30-C29	-2.70	123.45	127.31
21	a	807	CLA	O2D-CGD-O1D	-2.70	118.56	123.84
19	4	301	XAT	C24-C23-C22	-2.70	105.56	110.77
21	7	307	CLA	CMB-C2B-C3B	2.70	129.73	124.68
21	a	808	CLA	O2D-CGD-O1D	-2.70	118.56	123.84
19	9	304	XAT	C7-C8-C9	-2.70	121.34	125.53
19	a	853	XAT	C15-C35-C34	-2.70	117.95	123.47
23	h	202	A1L1F	O13-C45-C47	2.70	120.37	111.91
19	1	303	XAT	C10-C11-C12	-2.69	114.81	123.22
27	b	852	BCR	C20-C19-C18	-2.69	118.85	126.42
19	7	301	XAT	C11-C10-C9	-2.69	123.47	127.31
21	4	313	CLA	C1B-CHB-C4A	-2.69	124.78	130.12
19	6	302	XAT	C4-C3-C2	-2.69	105.57	110.77
21	a	835	CLA	CHB-C4A-NA	2.69	128.23	124.51
21	b	811	CLA	CAB-C3B-C2B	2.69	129.96	124.69
21	l	203	CLA	O2D-CGD-O1D	-2.69	118.58	123.84
19	6	306	XAT	C4-C3-C2	-2.69	105.58	110.77
19	8	303	XAT	C35-C34-C33	-2.69	123.47	127.31
24	m	101	LHG	O8-C23-C24	2.69	120.34	111.91
21	a	841	CLA	O2D-CGD-O1D	-2.69	118.58	123.84
27	b	845	BCR	C11-C10-C9	-2.69	123.47	127.31
22	1	315	SQD	O48-C23-C24	2.69	120.34	111.91
21	5	306	CLA	O2D-CGD-O1D	-2.68	118.59	123.84
27	i	101	BCR	C29-C30-C25	2.68	114.61	110.48
21	b	836	CLA	O2D-CGD-O1D	-2.68	118.59	123.84
21	a	804	CLA	C1-C2-C3	-2.68	121.40	126.04
21	a	814	CLA	O2D-CGD-O1D	-2.68	118.59	123.84
27	b	850	BCR	C20-C21-C22	-2.68	123.48	127.31
21	9	309	CLA	O2D-CGD-O1D	-2.68	118.59	123.84
27	b	843	BCR	C4-C5-C6	-2.68	118.84	122.73
19	5	303	XAT	C4-C3-C2	-2.68	105.60	110.77
22	5	317	SQD	O48-C23-C24	2.68	120.31	111.91
27	b	846	BCR	C10-C11-C12	-2.68	114.87	123.22
21	b	819	CLA	C1B-CHB-C4A	-2.67	124.82	130.12
21	b	819	CLA	O2D-CGD-O1D	-2.67	118.61	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	4	301	XAT	C19-C9-C8	2.67	122.29	118.08
21	6	315	CLA	O2D-CGD-O1D	-2.67	118.61	123.84
21	a	805	CLA	CHB-C4A-NA	2.67	128.21	124.51
21	4	308	CLA	C1B-CHB-C4A	-2.67	124.83	130.12
21	b	806	CLA	O2D-CGD-O1D	-2.67	118.61	123.84
21	a	822	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
27	f	801	BCR	C33-C5-C4	2.67	118.74	113.62
21	4	315	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
19	4	305	XAT	C31-C32-C33	-2.67	118.93	126.42
27	b	846	BCR	C7-C8-C9	-2.67	122.21	126.23
19	6	305	XAT	C6-C7-C8	-2.66	120.36	125.99
21	4	310	CLA	O2D-CGD-O1D	-2.66	118.63	123.84
21	4	317	CLA	CHB-C4A-NA	2.66	128.19	124.51
21	h	201	CLA	C1-C2-C3	-2.66	121.44	126.04
19	5	305	XAT	C10-C11-C12	-2.66	114.92	123.22
27	b	847	BCR	C35-C13-C12	2.66	122.27	118.08
21	1	312	CLA	CMB-C2B-C3B	2.66	129.65	124.68
19	5	301	XAT	C39-C29-C30	-2.66	119.20	122.92
19	a	853	XAT	C31-C32-C33	-2.65	118.96	126.42
19	5	301	XAT	C27-C28-C29	-2.65	121.42	125.53
23	6	301	A1L1F	O13-C45-C47	2.65	120.23	111.91
19	4	302	XAT	C15-C14-C13	-2.65	123.53	127.31
19	7	304	XAT	C4-C3-C2	-2.65	105.66	110.77
27	b	843	BCR	C2-C1-C6	2.65	114.56	110.48
19	5	302	XAT	C35-C15-C14	-2.64	118.06	123.47
19	4	301	XAT	C27-C28-C29	-2.64	121.43	125.53
21	b	818	CLA	C1B-CHB-C4A	-2.64	124.88	130.12
21	1	314	CLA	CHB-C4A-NA	2.64	128.17	124.51
19	4	303	XAT	C4-C3-C2	-2.64	105.67	110.77
19	4	303	XAT	C39-C29-C28	2.64	122.24	118.08
27	a	847	BCR	C16-C15-C14	-2.64	118.07	123.47
21	h	201	CLA	CHB-C4A-NA	2.64	128.16	124.51
25	b	851	DGD	C1E-O6E-C5E	2.64	118.86	113.69
19	5	305	XAT	C8-C9-C10	-2.64	114.90	118.94
21	a	833	CLA	CHB-C4A-NA	2.64	128.16	124.51
21	a	826	CLA	CHB-C4A-NA	2.63	128.15	124.51
21	a	807	CLA	CHB-C4A-NA	2.63	128.15	124.51
27	b	850	BCR	C28-C27-C26	-2.63	109.38	114.08
21	5	307	CLA	O2D-CGD-O1D	-2.63	118.70	123.84
21	1	306	CLA	CHB-C4A-NA	2.63	128.15	124.51
21	a	821	CLA	CHB-C4A-NA	2.63	128.14	124.51
19	4	305	XAT	C7-C8-C9	-2.63	121.45	125.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	9	311	CLA	C1B-CHB-C4A	-2.63	124.92	130.12
21	4	315	CLA	CHB-C4A-NA	2.63	128.14	124.51
21	4	317	CLA	O2D-CGD-O1D	-2.62	118.71	123.84
27	m	102	BCR	C33-C5-C6	-2.62	121.58	124.53
19	4	305	XAT	C39-C29-C30	-2.62	119.25	122.92
21	a	814	CLA	CHB-C4A-NA	2.62	128.14	124.51
23	h	202	A1L1F	C20-C21-C22	-2.62	107.56	112.75
19	9	303	XAT	C30-C31-C32	-2.62	115.04	123.22
21	4	311	CLA	CHB-C4A-NA	2.62	128.13	124.51
19	7	303	XAT	C24-C23-C22	-2.62	105.72	110.77
21	7	309	CLA	O2D-CGD-O1D	-2.62	118.15	124.09
21	b	830	CLA	CAA-C2A-C3A	-2.62	109.99	116.10
21	a	819	CLA	CHB-C4A-NA	2.62	128.13	124.51
21	a	832	CLA	CHB-C4A-NA	2.62	128.13	124.51
21	a	809	CLA	CHB-C4A-NA	2.61	128.13	124.51
24	9	307	LHG	O8-C23-C24	2.61	120.11	111.91
21	a	824	CLA	CMB-C2B-C3B	2.61	129.57	124.68
21	b	826	CLA	C1B-CHB-C4A	-2.61	124.94	130.12
27	i	102	BCR	C28-C27-C26	-2.61	109.42	114.08
27	b	850	BCR	C21-C20-C19	-2.61	115.07	123.22
21	b	824	CLA	CHB-C4A-NA	2.61	128.12	124.51
19	8	302	XAT	C4-C3-C2	-2.61	105.73	110.77
21	a	842	CLA	O2D-CGD-O1D	-2.61	118.74	123.84
27	a	849	BCR	C16-C15-C14	-2.61	118.13	123.47
19	6	303	XAT	C4-C3-C2	-2.61	105.74	110.77
21	4	315	CLA	CAA-C2A-C3A	-2.61	110.02	116.10
21	a	834	CLA	O2D-CGD-O1D	-2.61	118.74	123.84
27	f	801	BCR	C10-C11-C12	-2.60	115.09	123.22
21	1	308	CLA	C1-C2-C3	-2.60	121.54	126.04
21	b	805	CLA	CHB-C4A-NA	2.60	128.11	124.51
21	9	313	CLA	CHB-C4A-NA	2.60	128.11	124.51
19	a	854	XAT	O4-C5-C4	2.60	115.33	113.38
19	9	305	XAT	O4-C5-C4	2.60	115.33	113.38
23	1	304	A1L1F	O13-C45-C47	2.60	120.06	111.91
21	b	801	CLA	CMB-C2B-C3B	2.60	129.54	124.68
27	m	102	BCR	C27-C26-C25	2.60	126.50	122.73
27	m	102	BCR	C15-C16-C17	-2.60	118.16	123.47
27	b	847	BCR	C38-C26-C25	-2.59	121.61	124.53
21	4	310	CLA	CHB-C4A-NA	2.59	128.10	124.51
29	j	103	LMG	O8-C28-C29	2.59	120.05	111.91
21	a	852	CLA	O2D-CGD-O1D	-2.59	118.77	123.84
21	a	810	CLA	O2D-CGD-O1D	-2.59	118.77	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	820	CLA	C1-C2-C3	-2.59	122.56	126.75
21	9	316	CLA	O2D-CGD-O1D	-2.59	118.77	123.84
21	1	309	CLA	O2D-CGD-O1D	-2.59	118.77	123.84
24	b	849	LHG	O8-C23-C24	2.59	120.04	111.91
21	6	316	CLA	CHB-C4A-NA	2.59	128.09	124.51
21	b	841	CLA	C1B-CHB-C4A	-2.59	124.99	130.12
21	b	810	CLA	CHB-C4A-NA	2.59	128.09	124.51
23	h	202	A1L1F	C29-C30-C31	-2.59	115.01	118.93
21	a	825	CLA	CHB-C4A-NA	2.59	128.09	124.51
19	8	301	XAT	C4-C3-C2	-2.58	105.78	110.77
24	a	845	LHG	O8-C23-C24	2.58	120.02	111.91
21	b	813	CLA	CHB-C4A-NA	2.58	128.08	124.51
21	9	309	CLA	C1B-CHB-C4A	-2.58	125.00	130.12
21	a	802	CLA	C1B-CHB-C4A	-2.58	125.00	130.12
27	b	848	BCR	C24-C23-C22	-2.58	122.34	126.23
21	a	829	CLA	O2D-CGD-O1D	-2.58	118.80	123.84
21	5	314	CLA	CHB-C4A-NA	2.58	128.08	124.51
21	j	101	CLA	CHB-C4A-NA	2.58	128.08	124.51
21	a	814	CLA	CHD-C1D-ND	-2.58	122.09	124.45
21	a	801	CLA	O2A-CGA-O1A	-2.58	117.09	123.59
21	b	816	CLA	C1B-CHB-C4A	-2.57	125.02	130.12
21	a	804	CLA	CHB-C4A-NA	2.57	128.07	124.51
27	a	849	BCR	C23-C24-C25	-2.57	119.98	127.20
21	f	802	CLA	CHB-C4A-NA	2.57	128.07	124.51
19	5	305	XAT	C31-C30-C29	-2.57	123.64	127.31
21	5	307	CLA	CHB-C4A-NA	2.57	128.07	124.51
21	1	308	CLA	CHB-C4A-NA	2.57	128.07	124.51
21	f	803	CLA	CHB-C4A-NA	2.57	128.07	124.51
27	b	853	BCR	C20-C21-C22	-2.57	123.64	127.31
19	7	303	XAT	C4-C3-C2	-2.57	105.81	110.77
21	8	311	CLA	C1B-CHB-C4A	-2.57	125.03	130.12
21	1	312	CLA	CHB-C4A-NA	2.57	128.06	124.51
21	b	837	CLA	CHB-C4A-NA	2.57	128.06	124.51
21	b	808	CLA	C1B-CHB-C4A	-2.57	125.03	130.12
23	1	304	A1L1F	C26-C30-C31	-2.56	121.58	124.93
27	b	846	BCR	C2-C1-C6	2.56	114.43	110.48
21	b	834	CLA	O2D-CGD-O1D	-2.56	118.83	123.84
27	b	853	BCR	C34-C9-C10	-2.56	119.33	122.92
21	b	812	CLA	CHB-C4A-NA	2.56	128.05	124.51
21	8	307	CLA	CHB-C4A-NA	2.56	128.05	124.51
21	b	808	CLA	CHB-C4A-NA	2.56	128.05	124.51
19	6	302	XAT	C27-C28-C29	-2.56	121.56	125.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	5	309	CLA	CHB-C4A-NA	2.56	128.05	124.51
27	b	848	BCR	C34-C9-C8	2.56	122.11	118.08
19	6	306	XAT	C24-C23-C22	-2.56	105.83	110.77
21	a	820	CLA	C1B-CHB-C4A	-2.55	125.06	130.12
21	b	825	CLA	C1B-CHB-C4A	-2.55	125.06	130.12
21	b	817	CLA	CHB-C4A-NA	2.55	128.04	124.51
21	b	836	CLA	CHB-C4A-NA	2.55	128.04	124.51
21	7	306	CLA	CHB-C4A-NA	2.55	128.04	124.51
21	a	856	CLA	O2D-CGD-O1D	-2.55	118.85	123.84
21	8	312	CLA	CHB-C4A-NA	2.55	128.04	124.51
19	8	302	XAT	C11-C12-C13	-2.55	119.25	126.42
27	b	847	BCR	C8-C7-C6	-2.55	120.04	127.20
21	b	817	CLA	C1B-CHB-C4A	-2.55	125.07	130.12
19	9	303	XAT	C4-C3-C2	-2.55	105.86	110.77
21	5	312	CLA	O2D-CGD-O1D	-2.55	118.86	123.84
21	b	813	CLA	O2D-CGD-O1D	-2.55	118.86	123.84
21	a	818	CLA	CMB-C2B-C3B	2.54	129.44	124.68
21	7	315	CLA	CHB-C4A-NA	2.54	128.03	124.51
27	b	848	BCR	C20-C21-C22	-2.54	123.68	127.31
27	j	102	BCR	C33-C5-C6	-2.54	121.68	124.53
21	a	838	CLA	CHB-C4A-NA	2.54	128.02	124.51
21	a	822	CLA	CHB-C4A-NA	2.54	128.02	124.51
21	a	827	CLA	C1B-CHB-C4A	-2.53	125.10	130.12
19	8	302	XAT	C19-C9-C10	-2.53	119.38	122.92
21	5	311	CLA	CHB-C4A-NA	2.53	128.01	124.51
21	5	312	CLA	C1B-CHB-C4A	-2.53	125.10	130.12
21	7	313	CLA	C1B-CHB-C4A	-2.53	125.10	130.12
22	5	317	SQD	O7-S-C6	2.53	109.95	106.94
21	h	201	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
21	l	202	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
21	7	316	CLA	CHB-C4A-NA	2.53	128.01	124.51
21	a	808	CLA	CHB-C4A-NA	2.53	128.01	124.51
21	l	203	CLA	CHB-C4A-NA	2.53	128.01	124.51
27	b	844	BCR	C24-C23-C22	-2.53	122.41	126.23
21	9	308	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
21	b	829	CLA	C2D-C1D-ND	-2.53	108.24	110.10
21	a	832	CLA	C1-C2-C3	-2.53	122.66	126.75
21	a	810	CLA	CHB-C4A-NA	2.53	128.01	124.51
22	1	315	SQD	O8-S-C6	2.53	109.77	105.74
27	b	847	BCR	C33-C5-C4	2.53	118.47	113.62
21	b	821	CLA	CHB-C4A-NA	2.53	128.01	124.51
21	b	829	CLA	C1B-CHB-C4A	-2.53	125.11	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	6	314	CLA	CHB-C4A-NA	2.53	128.00	124.51
21	a	831	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
21	5	313	CLA	CHB-C4A-NA	2.52	128.00	124.51
21	b	835	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
19	9	303	XAT	C7-C8-C9	-2.52	121.61	125.53
21	b	819	CLA	CHB-C4A-NA	2.52	128.00	124.51
21	7	307	CLA	CHB-C4A-NA	2.52	128.00	124.51
21	l	201	CLA	CHB-C4A-NA	2.52	128.00	124.51
21	8	308	CLA	CHB-C4A-NA	2.52	128.00	124.51
21	8	311	CLA	CHB-C4A-NA	2.52	128.00	124.51
19	6	302	XAT	C19-C9-C10	-2.52	119.39	122.92
19	8	301	XAT	C31-C30-C29	-2.52	123.71	127.31
27	f	801	BCR	C2-C1-C6	2.52	114.36	110.48
21	b	820	CLA	CHB-C4A-NA	2.52	128.00	124.51
21	b	802	CLA	CMB-C2B-C3B	2.52	129.39	124.68
21	4	307	CLA	CHB-C4A-NA	2.52	128.00	124.51
27	b	852	BCR	C15-C14-C13	-2.52	123.72	127.31
27	i	102	BCR	C15-C16-C17	-2.52	118.32	123.47
21	a	841	CLA	C1-C2-C3	-2.52	121.69	126.04
21	5	306	CLA	CHB-C4A-NA	2.52	127.99	124.51
21	a	811	CLA	CHB-C4A-NA	2.52	127.99	124.51
21	a	822	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
21	b	834	CLA	CHB-C4A-NA	2.52	127.99	124.51
21	4	314	CLA	CHB-C4A-NA	2.51	127.99	124.51
21	a	840	CLA	CHB-C4A-NA	2.51	127.99	124.51
21	b	804	CLA	CHB-C4A-NA	2.51	127.99	124.51
21	a	806	CLA	C1B-CHB-C4A	-2.51	125.14	130.12
21	4	306	CLA	CHB-C4A-NA	2.51	127.98	124.51
21	4	316	CLA	CHB-C4A-NA	2.51	127.98	124.51
19	8	301	XAT	C35-C15-C14	-2.51	118.33	123.47
19	7	301	XAT	C35-C15-C14	-2.51	118.33	123.47
21	6	310	CLA	CHB-C4A-NA	2.51	127.98	124.51
21	a	802	CLA	CHB-C4A-NA	2.51	127.98	124.51
19	7	304	XAT	C19-C9-C10	-2.51	119.41	122.92
29	a	855	LMG	C8-O7-C10	-2.51	111.62	117.79
21	5	313	CLA	C1B-CHB-C4A	-2.51	125.15	130.12
27	i	102	BCR	C38-C26-C27	2.51	118.43	113.62
21	a	806	CLA	O1D-CGD-CBD	2.51	129.61	124.48
21	8	314	CLA	CAA-C2A-C3A	-2.51	110.25	116.10
21	4	311	CLA	CMB-C2B-C3B	2.51	129.37	124.68
21	6	311	CLA	CHB-C4A-NA	2.51	127.98	124.51
25	b	851	DGD	O2G-C1B-O1B	-2.50	117.65	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	5	305	XAT	C15-C35-C34	-2.50	118.35	123.47
23	6	304	A1L1F	O13-C45-C47	2.50	119.76	111.91
21	b	822	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
21	b	820	CLA	O2D-CGD-CBD	2.50	115.71	111.27
21	a	836	CLA	CMB-C2B-C3B	2.50	129.36	124.68
21	a	806	CLA	CHB-C4A-NA	2.50	127.97	124.51
19	1	303	XAT	C35-C15-C14	-2.50	118.36	123.47
21	a	823	CLA	CHB-C4A-NA	2.50	127.96	124.51
21	a	812	CLA	CHB-C4A-NA	2.49	127.96	124.51
21	a	817	CLA	CHB-C4A-NA	2.49	127.96	124.51
21	b	831	CLA	CHB-C4A-NA	2.49	127.96	124.51
21	6	315	CLA	CHB-C4A-NA	2.49	127.96	124.51
21	5	316	CLA	CHB-C4A-NA	2.49	127.95	124.51
21	6	307	CLA	CHB-C4A-NA	2.49	127.95	124.51
21	6	312	CLA	CHB-C4A-NA	2.49	127.95	124.51
21	b	806	CLA	CHB-C4A-NA	2.49	127.95	124.51
21	a	802	CLA	C1-C2-C3	-2.49	121.74	126.04
21	7	313	CLA	CHB-C4A-NA	2.49	127.95	124.51
21	5	310	CLA	CHB-C4A-NA	2.49	127.95	124.51
21	9	308	CLA	CHB-C4A-NA	2.49	127.95	124.51
19	6	302	XAT	C31-C32-C33	-2.48	119.44	126.42
19	5	301	XAT	C35-C15-C14	-2.48	118.39	123.47
27	f	804	BCR	C15-C16-C17	-2.48	118.39	123.47
21	b	802	CLA	O2D-CGD-O1D	-2.48	118.98	123.84
21	a	820	CLA	CHB-C4A-NA	2.48	127.94	124.51
19	5	302	XAT	C4-C3-C2	-2.48	105.98	110.77
21	a	818	CLA	CHB-C4A-NA	2.48	127.94	124.51
21	b	834	CLA	C1B-CHB-C4A	-2.48	125.20	130.12
21	b	838	CLA	C1B-CHB-C4A	-2.48	125.20	130.12
27	b	846	BCR	C21-C20-C19	-2.48	115.48	123.22
21	b	803	CLA	CHD-C1D-ND	-2.48	122.17	124.45
21	a	827	CLA	CHB-C4A-NA	2.48	127.94	124.51
19	5	305	XAT	C39-C29-C28	2.48	121.98	118.08
21	a	836	CLA	CHB-C4A-NA	2.48	127.94	124.51
21	a	841	CLA	C1B-CHB-C4A	-2.48	125.21	130.12
23	6	301	A1L1F	C31-C32-C33	-2.48	115.49	123.22
21	1	310	CLA	C1B-CHB-C4A	-2.48	125.21	130.12
21	b	807	CLA	C1B-CHB-C4A	-2.48	125.21	130.12
21	b	828	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
21	h	203	CLA	CHB-C4A-NA	2.47	127.93	124.51
23	9	302	A1L1F	C36-C37-C38	-2.47	118.41	123.47
21	a	835	CLA	C1B-CHB-C4A	-2.47	125.22	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	1	307	CLA	CHB-C4A-NA	2.47	127.93	124.51
21	a	837	CLA	CHB-C4A-NA	2.47	127.93	124.51
27	b	847	BCR	C39-C30-C25	-2.47	106.29	110.30
21	7	311	CLA	CHB-C4A-NA	2.47	127.93	124.51
27	j	102	BCR	C27-C26-C25	-2.47	119.15	122.73
21	8	305	CLA	CHB-C4A-NA	2.47	127.92	124.51
20	9	301	A1L1G	C20-C21-C22	-2.47	107.87	112.75
21	a	815	CLA	CHB-C4A-NA	2.47	127.92	124.51
21	a	828	CLA	CHB-C4A-NA	2.47	127.92	124.51
27	b	848	BCR	C38-C26-C25	-2.46	121.76	124.53
21	6	309	CLA	CHB-C4A-NA	2.46	127.92	124.51
21	5	309	CLA	C1B-CHB-C4A	-2.46	125.24	130.12
21	1	309	CLA	C1B-CHB-C4A	-2.46	125.24	130.12
27	j	102	BCR	C15-C16-C17	-2.46	118.43	123.47
21	8	309	CLA	CHB-C4A-NA	2.46	127.92	124.51
27	b	843	BCR	C15-C16-C17	-2.46	118.43	123.47
27	b	853	BCR	C28-C27-C26	-2.46	109.68	114.08
21	b	807	CLA	CHB-C4A-NA	2.46	127.92	124.51
21	4	312	CLA	C1B-CHB-C4A	-2.46	125.24	130.12
21	b	840	CLA	CHB-C4A-NA	2.46	127.91	124.51
19	8	303	XAT	C28-C29-C30	-2.46	115.17	118.94
19	5	303	XAT	C19-C9-C10	-2.46	119.48	122.92
21	9	309	CLA	CHB-C4A-NA	2.46	127.91	124.51
21	8	313	CLA	CHB-C4A-NA	2.46	127.91	124.51
21	a	809	CLA	C1B-CHB-C4A	-2.46	125.25	130.12
21	1	310	CLA	CHB-C4A-NA	2.46	127.91	124.51
21	b	831	CLA	C1B-CHB-C4A	-2.45	125.26	130.12
27	b	844	BCR	C15-C16-C17	-2.45	118.45	123.47
26	b	842	PQN	C14-C13-C15	2.45	119.40	115.27
27	i	102	BCR	C33-C5-C4	2.45	118.33	113.62
21	8	308	CLA	C1B-CHB-C4A	-2.45	125.26	130.12
23	8	304	A1L1F	C12-C6-C1	-2.45	108.28	110.47
19	7	305	XAT	C31-C30-C29	-2.45	123.81	127.31
21	h	203	CLA	C1B-CHB-C4A	-2.45	125.26	130.12
21	8	314	CLA	CHB-C4A-NA	2.45	127.90	124.51
21	b	835	CLA	CHB-C4A-NA	2.45	127.90	124.51
21	a	805	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
21	a	812	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
21	7	308	CLA	CHB-C4A-NA	2.44	127.89	124.51
23	h	202	A1L1F	C41-C40-C39	-2.44	119.55	126.42
21	a	834	CLA	CHB-C4A-NA	2.44	127.89	124.51
21	a	839	CLA	CHB-C4A-NA	2.44	127.89	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	5	303	XAT	C31-C30-C29	-2.44	123.82	127.31
21	l	203	CLA	C1B-CHB-C4A	-2.44	125.28	130.12
21	b	815	CLA	CHB-C4A-NA	2.44	127.89	124.51
23	6	304	A1L1F	C25-C14-C29	-2.44	120.83	125.99
27	b	853	BCR	C21-C20-C19	-2.44	115.61	123.22
21	a	816	CLA	CHB-C4A-NA	2.44	127.88	124.51
21	b	839	CLA	CHB-C4A-NA	2.44	127.88	124.51
19	7	304	XAT	C11-C12-C13	-2.44	119.57	126.42
27	a	848	BCR	C33-C5-C4	2.44	118.30	113.62
21	b	813	CLA	C1B-CHB-C4A	-2.44	125.29	130.12
23	8	304	A1L1F	C28-C39-C38	-2.44	119.51	122.92
21	b	816	CLA	CHB-C4A-NA	2.43	127.88	124.51
19	5	305	XAT	C30-C31-C32	-2.43	115.63	123.22
23	6	304	A1L1F	C42-C41-C40	-2.43	115.63	123.22
21	a	830	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
21	b	811	CLA	CHB-C4A-NA	2.43	127.87	124.51
21	a	803	CLA	CHD-C1D-ND	-2.43	122.22	124.45
21	a	813	CLA	CHB-C4A-NA	2.43	127.87	124.51
21	a	807	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
21	a	837	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
21	a	856	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
21	6	313	CLA	CHB-C4A-NA	2.43	127.87	124.51
21	5	315	CLA	C1B-CHB-C4A	-2.42	125.31	130.12
27	a	850	BCR	C8-C7-C6	-2.42	120.40	127.20
21	7	310	CLA	CHB-C4A-NA	2.42	127.86	124.51
23	1	304	A1L1F	C27-C34-C33	2.42	121.89	118.08
21	b	837	CLA	CHD-C1D-ND	-2.42	122.23	124.45
21	b	830	CLA	C1B-CHB-C4A	-2.42	125.33	130.12
21	9	315	CLA	CHB-C4A-NA	2.42	127.85	124.51
21	b	810	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
21	8	310	CLA	CHB-C4A-NA	2.41	127.85	124.51
21	4	312	CLA	CHB-C4A-NA	2.41	127.85	124.51
21	l	202	CLA	CHD-C1D-ND	-2.41	122.24	124.45
19	9	305	XAT	C35-C15-C14	-2.41	118.53	123.47
21	4	313	CLA	CHB-C4A-NA	2.41	127.85	124.51
21	1	313	CLA	CHB-C4A-NA	2.41	127.85	124.51
27	f	804	BCR	C28-C27-C26	-2.41	109.77	114.08
27	b	843	BCR	C21-C20-C19	-2.41	115.69	123.22
21	b	833	CLA	CHB-C4A-NA	2.41	127.84	124.51
21	b	802	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
21	8	307	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
21	a	818	CLA	C1B-CHB-C4A	-2.41	125.35	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	a	840	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
21	5	316	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
21	a	804	CLA	O2D-CGD-CBD	2.41	115.55	111.27
21	a	836	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
19	6	303	XAT	C11-C12-C13	-2.41	119.65	126.42
21	4	312	CLA	CHD-C1D-ND	-2.41	122.24	124.45
19	8	302	XAT	C7-C8-C9	-2.41	121.80	125.53
21	b	837	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
27	b	845	BCR	C28-C27-C26	-2.40	109.78	114.08
21	b	809	CLA	CHB-C4A-NA	2.40	127.84	124.51
21	7	314	CLA	O2D-CGD-O1D	-2.40	119.14	123.84
21	7	308	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
21	a	832	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
21	8	310	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
21	7	314	CLA	C2A-C1A-CHA	2.40	128.05	123.86
23	h	202	A1L1F	C27-C34-C33	2.40	121.85	118.08
21	b	822	CLA	CHB-C4A-NA	2.40	127.83	124.51
21	4	309	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
23	h	202	A1L1F	O7-C54-O55	-2.40	118.20	122.96
21	l	201	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
21	1	309	CLA	CHD-C1D-ND	-2.40	122.25	124.45
19	9	304	XAT	C39-C29-C28	2.39	121.85	118.08
27	j	102	BCR	C38-C26-C25	-2.39	121.84	124.53
21	5	308	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
21	b	825	CLA	CHB-C4A-NA	2.39	127.82	124.51
27	b	850	BCR	C8-C7-C6	-2.39	120.48	127.20
21	4	308	CLA	CHB-C4A-NA	2.39	127.82	124.51
23	6	304	A1L1F	C11-C1-C6	2.39	122.07	119.70
19	4	302	XAT	C10-C11-C12	-2.39	115.76	123.22
21	b	833	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
21	9	314	CLA	CHB-C4A-NA	2.39	127.82	124.51
27	a	850	BCR	C10-C11-C12	-2.39	115.76	123.22
21	b	811	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
21	b	816	CLA	CHD-C1D-ND	-2.39	122.26	124.45
21	5	312	CLA	CHB-C4A-NA	2.39	127.82	124.51
27	b	852	BCR	C36-C18-C17	-2.39	119.58	122.92
23	h	202	A1L1F	C23-C22-C21	-2.39	106.16	110.77
21	8	312	CLA	C1B-CHB-C4A	-2.39	125.39	130.12
21	b	834	CLA	CHD-C1D-ND	-2.39	122.26	124.45
21	6	310	CLA	C1B-CHB-C4A	-2.39	125.39	130.12
19	7	303	XAT	C8-C9-C10	2.39	122.60	118.94
21	b	832	CLA	CHB-C4A-NA	2.39	127.81	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	1	313	CLA	C1B-CHB-C4A	-2.39	125.39	130.12
21	9	316	CLA	C1B-CHB-C4A	-2.38	125.39	130.12
27	b	850	BCR	C33-C5-C4	2.38	118.19	113.62
21	a	808	CLA	C1B-CHB-C4A	-2.38	125.40	130.12
21	a	814	CLA	C1B-CHB-C4A	-2.38	125.40	130.12
21	b	827	CLA	C1B-CHB-C4A	-2.38	125.40	130.12
19	5	303	XAT	O4-C5-C4	2.38	115.17	113.38
27	b	843	BCR	C29-C30-C25	2.38	114.15	110.48
21	a	804	CLA	C1B-CHB-C4A	-2.38	125.40	130.12
21	a	834	CLA	C1B-CHB-C4A	-2.38	125.40	130.12
21	a	856	CLA	CHB-C4A-NA	2.38	127.80	124.51
27	a	847	BCR	C23-C24-C25	-2.38	120.52	127.20
21	4	317	CLA	C1B-CHB-C4A	-2.38	125.41	130.12
21	b	830	CLA	CHB-C4A-NA	2.38	127.80	124.51
27	b	850	BCR	C10-C11-C12	-2.38	115.80	123.22
21	b	827	CLA	CHB-C4A-NA	2.37	127.80	124.51
21	9	311	CLA	O2D-CGD-CBD	2.37	115.49	111.27
21	6	313	CLA	C1B-CHB-C4A	-2.37	125.41	130.12
21	f	803	CLA	C1B-CHB-C4A	-2.37	125.41	130.12
21	a	835	CLA	O2D-CGD-CBD	2.37	115.48	111.27
21	a	825	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
23	6	304	A1L1F	C31-C32-C33	-2.37	115.81	123.22
21	a	842	CLA	CHB-C4A-NA	2.37	127.79	124.51
29	j	103	LMG	C8-O7-C10	-2.37	111.95	117.79
21	b	815	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
27	b	844	BCR	C28-C27-C26	-2.37	109.84	114.08
21	a	811	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
21	1	308	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
21	6	308	CLA	CHB-C4A-NA	2.37	127.79	124.51
27	i	101	BCR	C37-C22-C21	-2.37	119.61	122.92
21	5	310	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
21	7	311	CLA	CHD-C1D-ND	-2.37	122.28	124.45
21	a	828	CLA	C1-C2-C3	-2.36	121.95	126.04
21	5	308	CLA	CHB-C4A-NA	2.36	127.78	124.51
21	7	312	CLA	CHB-C4A-NA	2.36	127.78	124.51
27	a	850	BCR	C16-C15-C14	-2.36	118.63	123.47
19	7	304	XAT	O4-C5-C4	2.36	115.16	113.38
19	5	305	XAT	C25-C24-C23	-2.36	108.08	112.75
21	4	313	CLA	CHD-C1D-ND	-2.36	122.28	124.45
23	9	302	A1L1F	O7-C54-O55	-2.36	118.27	122.96
21	7	309	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
21	b	835	CLA	CHD-C1D-ND	-2.36	122.28	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	a	810	CLA	C1-C2-C3	-2.36	121.96	126.04
27	b	846	BCR	C33-C5-C6	-2.36	121.88	124.53
23	8	304	A1L1F	C23-C22-C21	-2.36	106.21	110.77
21	1	311	CLA	CHB-C4A-NA	2.36	127.78	124.51
19	7	303	XAT	O4-C5-C4	2.36	115.16	113.38
21	a	816	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
21	b	805	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
27	b	844	BCR	C33-C5-C4	2.36	118.14	113.62
21	9	315	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
21	a	801	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
19	5	301	XAT	C40-C33-C34	-2.36	119.62	122.92
21	1	305	CLA	CHB-C4A-NA	2.36	127.77	124.51
21	1	311	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
27	a	848	BCR	C15-C16-C17	-2.35	118.65	123.47
21	a	831	CLA	CHB-C4A-NA	2.35	127.77	124.51
21	b	818	CLA	CHB-C4A-NA	2.35	127.77	124.51
21	b	806	CLA	C1-C2-C3	-2.35	121.97	126.04
21	9	313	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
21	7	312	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
21	b	809	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
21	b	824	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
21	a	806	CLA	C5-C3-C2	-2.35	116.36	121.12
19	6	306	XAT	C31-C32-C33	-2.35	119.81	126.42
21	b	836	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
21	6	309	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
21	9	312	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
19	4	302	XAT	C30-C31-C32	-2.35	115.89	123.22
21	a	833	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
21	b	812	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
21	a	812	CLA	CHD-C1D-ND	-2.35	122.30	124.45
19	9	304	XAT	O4-C5-C4	2.35	115.15	113.38
21	a	819	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
21	8	306	CLA	CHB-C4A-NA	2.35	127.76	124.51
21	b	823	CLA	CHB-C4A-NA	2.35	127.76	124.51
21	7	309	CLA	CHB-C4A-NA	2.35	127.76	124.51
21	a	836	CLA	C1-C2-C3	-2.35	122.95	126.75
19	6	303	XAT	O24-C25-C38	2.35	117.87	115.06
27	b	844	BCR	C23-C24-C25	-2.35	120.61	127.20
21	a	841	CLA	O2A-CGA-O1A	-2.35	117.67	123.59
19	7	301	XAT	C31-C32-C33	-2.35	119.83	126.42
23	6	304	A1L1F	O7-C54-O55	-2.35	118.30	122.96
27	b	853	BCR	C15-C16-C17	-2.35	118.67	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	820	CLA	C1B-CHB-C4A	-2.34	125.47	130.12
20	7	302	A1L1G	C17-C20-C21	2.34	116.92	114.28
21	b	839	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
21	9	316	CLA	CHB-C4A-NA	2.34	127.75	124.51
21	4	309	CLA	CHB-C4A-NA	2.34	127.75	124.51
21	7	311	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
21	a	806	CLA	C6-C5-C3	-2.34	107.32	113.45
21	4	311	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
27	a	847	BCR	C33-C5-C4	2.34	118.11	113.62
23	6	304	A1L1F	C5-C6-C1	-2.34	108.38	110.47
21	b	801	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
21	1	313	CLA	CAA-C2A-C3A	-2.34	110.64	116.10
21	a	826	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
21	9	310	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
21	a	839	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
19	1	303	XAT	C27-C28-C29	-2.33	121.91	125.53
27	b	846	BCR	C16-C15-C14	-2.33	118.69	123.47
21	a	844	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
21	f	802	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
25	8	315	DGD	C2G-O2G-C1B	-2.33	112.05	117.79
21	8	313	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
21	5	313	CLA	CHD-C1D-ND	-2.33	122.31	124.45
26	a	843	PQN	C11-C12-C13	-2.33	122.92	126.79
21	b	806	CLA	C1B-CHB-C4A	-2.33	125.51	130.12
21	6	312	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
19	5	303	XAT	C15-C35-C34	-2.32	118.72	123.47
21	b	804	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
21	a	828	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
21	7	306	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
19	a	854	XAT	C19-C9-C8	2.32	121.73	118.08
27	a	848	BCR	C10-C11-C12	-2.32	115.99	123.22
21	a	816	CLA	C1-C2-C3	-2.32	123.00	126.75
21	7	316	CLA	O2D-CGD-CBD	2.32	115.38	111.27
21	9	311	CLA	CHD-C1D-ND	-2.32	122.33	124.45
21	5	307	CLA	C1B-CHB-C4A	-2.31	125.53	130.12
21	1	312	CLA	C1B-CHB-C4A	-2.31	125.53	130.12
23	1	304	A1L1F	C31-C32-C33	-2.31	115.99	123.22
21	7	309	CLA	CHD-C1D-ND	-2.31	122.33	124.45
21	a	827	CLA	CHD-C1D-ND	-2.31	122.33	124.45
27	f	804	BCR	C3-C4-C5	-2.31	109.95	114.08
21	7	310	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
21	a	824	CLA	CHB-C4A-NA	2.31	127.71	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	6	315	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
21	a	823	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
21	4	315	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
21	4	314	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
21	a	810	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
21	b	831	CLA	CHD-C1D-ND	-2.31	122.33	124.45
21	b	832	CLA	CHD-C1D-ND	-2.31	122.33	124.45
21	8	306	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
21	a	805	CLA	CHD-C1D-ND	-2.31	122.33	124.45
27	f	804	BCR	C11-C12-C13	-2.30	119.95	126.42
19	5	302	XAT	O4-C5-C4	2.30	115.11	113.38
21	b	818	CLA	CHD-C1D-ND	-2.30	122.34	124.45
27	b	843	BCR	C38-C26-C27	2.30	118.04	113.62
21	7	314	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
21	b	825	CLA	CHD-C1D-ND	-2.30	122.34	124.45
21	a	815	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
19	8	303	XAT	C40-C33-C32	2.30	121.70	118.08
21	a	801	CLA	CMB-C2B-C3B	2.30	128.98	124.68
21	1	305	CLA	CHD-C1D-ND	-2.30	122.34	124.45
19	9	303	XAT	C39-C29-C28	2.30	121.70	118.08
21	1	314	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
21	b	814	CLA	C1B-CHB-C4A	-2.30	125.57	130.12
27	b	843	BCR	C11-C12-C13	-2.30	119.97	126.42
21	5	311	CLA	CHD-C1D-ND	-2.29	122.34	124.45
21	4	310	CLA	C1B-CHB-C4A	-2.29	125.57	130.12
21	a	810	CLA	O2A-CGA-O1A	-2.29	117.80	123.59
21	j	101	CLA	C1B-CHB-C4A	-2.29	125.57	130.12
21	a	820	CLA	CHD-C1D-ND	-2.29	122.35	124.45
27	j	102	BCR	C34-C9-C10	-2.29	119.71	122.92
21	5	311	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
21	1	309	CLA	CHB-C4A-NA	2.29	127.68	124.51
21	7	313	CLA	CHD-C1D-ND	-2.29	122.35	124.45
19	4	303	XAT	O4-C5-C4	2.29	115.10	113.38
23	6	301	A1L1F	C36-C35-C34	-2.29	124.04	127.31
27	i	101	BCR	C16-C15-C14	-2.29	118.78	123.47
27	m	102	BCR	C8-C7-C6	-2.29	120.78	127.20
21	b	840	CLA	CMB-C2B-C3B	2.29	128.96	124.68
21	b	809	CLA	C1-C2-C3	-2.29	122.09	126.04
21	7	313	CLA	O2A-CGA-O1A	-2.29	117.82	123.59
23	6	301	A1L1F	C14-C29-C30	-2.29	121.44	125.47
21	a	842	CLA	C1B-CHB-C4A	-2.28	125.59	130.12
21	6	307	CLA	C1B-CHB-C4A	-2.28	125.60	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	7	315	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
21	a	830	CLA	C1-C2-C3	-2.28	122.10	126.04
21	8	309	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
21	4	306	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
21	5	315	CLA	O2A-CGA-O1A	-2.28	117.85	123.59
21	b	841	CLA	CHB-C4A-NA	2.28	127.66	124.51
19	a	853	XAT	C39-C29-C28	2.27	121.66	118.08
21	8	314	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
21	a	821	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
27	b	852	BCR	C23-C24-C25	-2.27	120.82	127.20
21	a	844	CLA	CHB-C4A-NA	2.27	127.65	124.51
21	4	307	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
27	a	849	BCR	C38-C26-C27	2.27	117.98	113.62
21	a	813	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
21	6	311	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
27	b	850	BCR	C37-C22-C23	2.27	121.65	118.08
27	b	853	BCR	C23-C24-C25	-2.27	120.83	127.20
21	b	823	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
21	b	802	CLA	CHB-C4A-NA	2.27	127.65	124.51
21	a	815	CLA	CHD-C1D-ND	-2.27	122.37	124.45
27	b	847	BCR	C38-C26-C27	2.27	117.97	113.62
21	1	305	CLA	C1B-CHB-C4A	-2.27	125.63	130.12
21	1	306	CLA	C1B-CHB-C4A	-2.27	125.63	130.12
23	1	304	A1L1F	O7-C54-O55	-2.27	118.46	122.96
21	4	310	CLA	O2A-CGA-O1A	-2.27	117.87	123.59
21	5	314	CLA	C1B-CHB-C4A	-2.27	125.63	130.12
21	b	832	CLA	C1B-CHB-C4A	-2.27	125.63	130.12
21	1	307	CLA	C1B-CHB-C4A	-2.27	125.63	130.12
21	8	308	CLA	O2A-CGA-O1A	-2.27	117.88	123.59
27	a	848	BCR	C16-C15-C14	-2.27	118.83	123.47
23	6	301	A1L1F	O7-C54-O55	-2.27	118.46	122.96
21	8	309	CLA	C1-C2-C3	-2.26	122.13	126.04
27	m	102	BCR	C24-C23-C22	-2.26	122.81	126.23
21	a	824	CLA	C1B-CHB-C4A	-2.26	125.63	130.12
21	a	805	CLA	O2A-CGA-O1A	-2.26	117.88	123.59
27	b	848	BCR	C35-C13-C12	2.26	121.64	118.08
21	6	316	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
21	a	806	CLA	CHD-C1D-ND	-2.26	122.38	124.45
19	7	301	XAT	C26-C27-C28	-2.26	121.22	125.99
23	6	301	A1L1F	C23-C22-C21	-2.26	106.42	110.77
19	8	302	XAT	O4-C5-C4	2.26	115.08	113.38
21	a	817	CLA	C1B-CHB-C4A	-2.26	125.65	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	6	302	XAT	O4-C5-C4	2.26	115.08	113.38
22	1	315	SQD	O9-S-C6	2.25	109.62	106.94
21	6	314	CLA	C1B-CHB-C4A	-2.25	125.65	130.12
21	a	838	CLA	C1B-CHB-C4A	-2.25	125.65	130.12
27	f	801	BCR	C34-C9-C8	2.25	121.63	118.08
19	5	302	XAT	O24-C25-C38	2.25	117.75	115.06
21	b	808	CLA	O2D-CGD-CBD	2.25	115.27	111.27
27	f	801	BCR	C28-C27-C26	-2.25	110.06	114.08
19	8	302	XAT	C8-C9-C10	2.25	122.39	118.94
27	a	848	BCR	C21-C20-C19	-2.25	116.20	123.22
21	b	803	CLA	C3C-C4C-NC	-2.25	108.05	110.57
19	4	301	XAT	C15-C35-C34	-2.25	118.87	123.47
21	7	316	CLA	C1B-CHB-C4A	-2.25	125.67	130.12
21	a	825	CLA	CHD-C1D-ND	-2.25	122.39	124.45
27	b	847	BCR	C34-C9-C8	2.25	121.62	118.08
21	b	821	CLA	O2A-CGA-O1A	-2.25	117.92	123.59
27	b	847	BCR	C21-C20-C19	-2.25	116.21	123.22
21	b	826	CLA	CHB-C4A-NA	2.24	127.61	124.51
21	b	821	CLA	C1-C2-C3	-2.24	122.16	126.04
20	1	301	A1L1G	C14-C29-C30	-2.24	121.52	125.47
23	9	302	A1L1F	C26-O13-C45	2.24	120.67	115.68
21	8	305	CLA	C1B-CHB-C4A	-2.24	125.68	130.12
23	1	304	A1L1F	C37-C36-C35	-2.24	118.88	123.47
20	9	301	A1L1G	C14-C29-C30	-2.24	121.52	125.47
21	a	827	CLA	CAA-C2A-C1A	-2.24	104.63	111.97
21	5	306	CLA	C1B-CHB-C4A	-2.24	125.68	130.12
21	7	317	CLA	C1B-CHB-C4A	-2.24	125.68	130.12
27	a	849	BCR	C21-C20-C19	-2.24	116.23	123.22
21	a	813	CLA	CHD-C1D-ND	-2.24	122.40	124.45
19	8	301	XAT	O4-C5-C4	2.24	115.06	113.38
21	b	841	CLA	CHD-C1D-ND	-2.24	122.40	124.45
20	1	301	A1L1G	C17-C20-C21	2.23	116.79	114.28
21	b	836	CLA	CAC-C3C-C4C	2.23	127.71	124.81
21	8	308	CLA	C1-C2-C3	-2.23	122.18	126.04
21	b	838	CLA	CHB-C4A-NA	2.23	127.59	124.51
19	6	303	XAT	C20-C13-C14	-2.23	119.80	122.92
21	b	833	CLA	CHD-C1D-ND	-2.23	122.41	124.45
21	b	803	CLA	O2A-CGA-O1A	-2.23	117.97	123.59
19	7	301	XAT	C24-C23-C22	-2.23	106.47	110.77
21	4	316	CLA	C1B-CHB-C4A	-2.23	125.71	130.12
27	b	846	BCR	C11-C10-C9	-2.22	124.14	127.31
21	6	308	CLA	C1B-CHB-C4A	-2.22	125.71	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	6	306	XAT	C35-C15-C14	-2.22	118.92	123.47
23	6	301	A1L1F	C32-C31-C30	-2.22	124.09	127.26
19	5	303	XAT	C11-C12-C13	-2.22	120.17	126.42
19	4	305	XAT	C15-C35-C34	-2.22	118.92	123.47
21	b	828	CLA	CHB-C4A-NA	2.22	127.58	124.51
21	4	308	CLA	CHD-C1D-ND	-2.22	122.42	124.45
21	1	311	CLA	CHD-C1D-ND	-2.22	122.42	124.45
27	b	847	BCR	C23-C24-C25	-2.22	120.97	127.20
21	a	829	CLA	CHB-C4A-NA	2.22	127.58	124.51
21	a	841	CLA	CHD-C1D-ND	-2.22	122.42	124.45
19	8	301	XAT	C30-C31-C32	-2.22	116.30	123.22
19	5	301	XAT	O4-C5-C4	2.22	115.05	113.38
21	7	307	CLA	C1B-CHB-C4A	-2.21	125.73	130.12
21	8	309	CLA	CHD-C1D-ND	-2.21	122.42	124.45
21	8	311	CLA	CHD-C1D-ND	-2.21	122.42	124.45
27	b	853	BCR	C39-C30-C25	-2.21	106.71	110.30
21	a	820	CLA	O2A-CGA-O1A	-2.21	118.01	123.59
27	b	845	BCR	C33-C5-C4	2.21	117.86	113.62
22	5	317	SQD	C45-O47-C7	-2.21	112.36	117.79
19	8	302	XAT	O24-C25-C38	2.21	117.70	115.06
19	1	303	XAT	C19-C9-C8	2.21	121.55	118.08
21	a	822	CLA	CHD-C1D-ND	-2.21	122.43	124.45
21	b	829	CLA	CHB-C4A-NA	2.21	127.56	124.51
27	a	850	BCR	C20-C19-C18	-2.21	120.22	126.42
27	f	801	BCR	C15-C14-C13	-2.20	124.16	127.31
23	9	302	A1L1F	C20-C21-C22	-2.20	108.39	112.75
21	b	805	CLA	CHD-C1D-ND	-2.20	122.43	124.45
21	1	312	CLA	O2A-CGA-O1A	-2.20	118.03	123.59
19	7	305	XAT	C30-C31-C32	-2.20	116.35	123.22
27	b	853	BCR	C29-C30-C25	2.20	113.87	110.48
27	f	801	BCR	C35-C13-C12	2.20	121.54	118.08
19	6	303	XAT	O4-C5-C4	2.20	115.03	113.38
21	5	308	CLA	O2A-CGA-O1A	-2.20	118.04	123.59
19	5	302	XAT	C30-C31-C32	-2.20	116.36	123.22
27	b	850	BCR	C35-C13-C12	2.20	121.54	118.08
19	7	305	XAT	C39-C29-C28	2.20	121.54	118.08
22	5	317	SQD	O9-S-C6	2.20	109.55	106.94
19	a	853	XAT	O24-C25-C38	2.20	117.69	115.06
21	a	819	CLA	O2A-CGA-O1A	-2.20	118.05	123.59
19	a	854	XAT	C40-C33-C32	2.20	121.54	118.08
21	4	309	CLA	CHD-C1D-ND	-2.19	122.44	124.45
21	b	837	CLA	O2A-CGA-O1A	-2.19	118.05	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	l	201	CLA	CHD-C1D-ND	-2.19	122.44	124.45
19	6	302	XAT	C20-C13-C14	-2.19	119.85	122.92
21	5	310	CLA	CHD-C1D-ND	-2.19	122.44	124.45
21	a	839	CLA	CHD-C1D-ND	-2.19	122.44	124.45
23	9	302	A1L1F	C31-C32-C33	-2.19	116.38	123.22
23	9	302	A1L1F	C23-C22-C21	-2.19	106.54	110.77
27	b	852	BCR	C38-C26-C27	2.19	117.82	113.62
21	5	312	CLA	O2A-CGA-O1A	-2.19	118.06	123.59
21	b	828	CLA	CHD-C1D-ND	-2.19	122.44	124.45
21	a	818	CLA	O2D-CGD-CBD	2.19	115.16	111.27
20	9	301	A1L1G	C29-C30-C31	2.19	122.25	118.93
21	a	804	CLA	O2A-CGA-O1A	-2.19	118.08	123.59
19	9	303	XAT	O4-C5-C4	2.19	115.02	113.38
27	i	101	BCR	C23-C22-C21	2.19	122.29	118.94
19	4	301	XAT	C8-C9-C10	-2.18	115.59	118.94
27	b	844	BCR	C37-C22-C23	2.18	121.52	118.08
19	7	304	XAT	O24-C25-C38	2.18	117.67	115.06
21	a	833	CLA	C1-C2-C3	-2.18	122.27	126.04
23	6	304	A1L1F	C36-C37-C38	-2.18	119.01	123.47
21	b	840	CLA	C1B-CHB-C4A	-2.18	125.80	130.12
21	b	813	CLA	C1-C2-C3	-2.18	122.27	126.04
19	8	302	XAT	C20-C13-C14	-2.18	119.87	122.92
21	a	834	CLA	C1-C2-C3	-2.18	122.28	126.04
19	1	303	XAT	O4-C5-C4	2.18	115.02	113.38
21	b	821	CLA	C1B-CHB-C4A	-2.18	125.81	130.12
20	7	302	A1L1G	C20-C21-C22	-2.18	108.44	112.75
21	8	310	CLA	CHD-C1D-ND	-2.18	122.45	124.45
21	a	852	CLA	CHD-C1D-ND	-2.18	122.45	124.45
21	a	806	CLA	O2A-CGA-O1A	-2.17	118.10	123.59
21	f	803	CLA	CHD-C1D-ND	-2.17	122.46	124.45
21	7	312	CLA	CHD-C1D-ND	-2.17	122.46	124.45
27	b	844	BCR	C11-C12-C13	-2.17	120.32	126.42
21	b	803	CLA	O1D-CGD-CBD	2.17	128.92	124.48
21	b	839	CLA	CHD-C1D-ND	-2.17	122.46	124.45
27	b	845	BCR	C7-C6-C5	-2.17	116.21	121.46
19	6	302	XAT	O24-C25-C38	2.17	117.65	115.06
21	a	836	CLA	CHD-C1D-ND	-2.17	122.46	124.45
21	6	310	CLA	O2A-CGA-O1A	-2.16	118.13	123.59
21	8	308	CLA	O2D-CGD-CBD	2.16	115.11	111.27
25	b	851	DGD	O3D-C3D-C4D	-2.16	105.35	110.35
21	7	312	CLA	O2A-CGA-O1A	-2.16	118.13	123.59
21	b	804	CLA	O2A-CGA-O1A	-2.16	118.13	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	a	853	XAT	O4-C5-C4	2.16	115.01	113.38
19	5	303	XAT	C20-C13-C14	-2.16	119.89	122.92
19	8	301	XAT	O24-C25-C38	2.16	117.65	115.06
23	6	304	A1L1F	C20-C21-C22	-2.16	108.47	112.75
21	a	801	CLA	CHB-C4A-NA	2.16	127.50	124.51
21	a	830	CLA	CHB-C4A-NA	2.16	127.50	124.51
27	b	844	BCR	C36-C18-C19	2.16	121.48	118.08
19	8	303	XAT	O4-C5-C18	2.16	117.64	115.06
27	a	848	BCR	C23-C24-C25	-2.16	121.14	127.20
19	6	306	XAT	O24-C25-C38	2.16	117.64	115.06
27	b	847	BCR	C29-C30-C25	2.16	113.80	110.48
21	a	816	CLA	CHD-C1D-ND	-2.16	122.47	124.45
21	a	831	CLA	O2D-CGD-CBD	2.16	115.10	111.27
19	9	303	XAT	O24-C25-C38	2.16	117.64	115.06
19	5	305	XAT	O24-C25-C38	2.16	117.64	115.06
21	4	306	CLA	CHD-C1D-ND	-2.15	122.47	124.45
21	7	308	CLA	CHD-C1D-ND	-2.15	122.47	124.45
21	8	305	CLA	CHD-C1D-ND	-2.15	122.47	124.45
27	a	849	BCR	C8-C7-C6	-2.15	121.16	127.20
27	b	846	BCR	C34-C9-C8	2.15	121.47	118.08
21	8	312	CLA	O2A-CGA-O1A	-2.15	118.17	123.59
21	h	203	CLA	CHD-C1D-ND	-2.15	122.48	124.45
21	a	831	CLA	O2A-CGA-O1A	-2.15	118.17	123.59
21	b	836	CLA	C1-C2-C3	-2.15	122.33	126.04
21	8	307	CLA	CHD-C1D-ND	-2.15	122.48	124.45
19	7	301	XAT	C39-C29-C30	-2.15	119.91	122.92
19	9	305	XAT	C5-C4-C3	2.15	117.00	112.75
19	6	305	XAT	C10-C11-C12	-2.15	116.52	123.22
27	b	848	BCR	C37-C22-C23	2.14	121.46	118.08
19	4	305	XAT	O4-C5-C4	2.14	114.99	113.38
19	7	304	XAT	C25-C24-C23	-2.14	108.51	112.75
21	a	811	CLA	CHD-C1D-ND	-2.14	122.48	124.45
19	6	306	XAT	O4-C5-C4	2.14	114.99	113.38
19	9	304	XAT	C10-C11-C12	-2.14	116.53	123.22
21	a	808	CLA	CHD-C1D-ND	-2.14	122.49	124.45
21	7	316	CLA	O2A-CGA-O1A	-2.14	118.19	123.59
21	a	806	CLA	C6-C7-C8	-2.14	109.00	115.92
27	a	849	BCR	C10-C11-C12	-2.14	116.54	123.22
21	b	823	CLA	O2A-CGA-O1A	-2.14	118.20	123.59
19	4	303	XAT	O24-C25-C38	2.14	117.61	115.06
21	a	834	CLA	O2A-CGA-O1A	-2.14	118.20	123.59
19	4	302	XAT	C20-C13-C12	2.14	121.44	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	a	844	CLA	CHD-C1D-ND	-2.13	122.49	124.45
21	a	812	CLA	O2A-CGA-O1A	-2.13	118.21	123.59
27	b	852	BCR	C32-C1-C6	-2.13	106.84	110.30
27	b	853	BCR	C37-C22-C23	2.13	121.44	118.08
27	a	848	BCR	C34-C9-C8	2.13	121.43	118.08
19	6	305	XAT	C40-C33-C34	-2.13	119.94	122.92
21	f	802	CLA	O2A-CGA-O1A	-2.13	118.22	123.59
21	4	307	CLA	O2D-CGD-CBD	2.13	115.05	111.27
26	a	843	PQN	C2M-C2-C3	-2.13	120.93	124.40
27	j	102	BCR	C3-C4-C5	-2.13	110.28	114.08
19	a	854	XAT	O24-C25-C38	2.13	117.61	115.06
21	5	316	CLA	CHD-C1D-ND	-2.13	122.50	124.45
27	b	853	BCR	C3-C4-C5	-2.13	110.28	114.08
21	a	837	CLA	CHD-C1D-ND	-2.13	122.50	124.45
21	1	308	CLA	O2A-CGA-O1A	-2.13	118.23	123.59
19	7	303	XAT	O24-C25-C38	2.13	117.60	115.06
21	a	844	CLA	C1-C2-C3	-2.12	122.37	126.04
27	b	846	BCR	C23-C24-C25	-2.12	121.24	127.20
21	a	856	CLA	CHD-C1D-ND	-2.12	122.50	124.45
19	4	304	XAT	O4-C5-C18	2.12	117.60	115.06
19	4	303	XAT	C7-C8-C9	-2.12	122.24	125.53
27	a	847	BCR	C38-C26-C27	2.12	117.69	113.62
21	5	313	CLA	O2A-CGA-O1A	-2.12	118.24	123.59
21	1	306	CLA	C1-C2-C3	-2.12	122.38	126.04
21	4	313	CLA	O2A-CGA-O1A	-2.12	118.24	123.59
27	b	843	BCR	C37-C22-C23	2.12	121.42	118.08
19	5	303	XAT	O24-C25-C26	-2.12	57.21	58.96
19	4	302	XAT	C39-C29-C28	2.12	121.41	118.08
21	b	829	CLA	C1-C2-C3	-2.12	122.38	126.04
19	8	303	XAT	O24-C25-C38	2.12	117.59	115.06
20	1	301	A1L1G	C29-C30-C31	2.11	122.14	118.93
21	9	316	CLA	CHD-C1D-ND	-2.11	122.51	124.45
27	a	847	BCR	C8-C7-C6	-2.11	121.26	127.20
27	b	843	BCR	C33-C5-C6	-2.11	122.15	124.53
21	b	812	CLA	CHD-C1D-ND	-2.11	122.51	124.45
21	9	314	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
27	f	804	BCR	C35-C13-C14	-2.11	119.97	122.92
21	b	840	CLA	C1-C2-C3	-2.11	122.39	126.04
27	m	102	BCR	C15-C14-C13	-2.11	124.30	127.31
21	a	838	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
21	a	839	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
21	a	807	CLA	O2A-CGA-O1A	-2.11	118.27	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	820	CLA	O2A-CGA-O1A	-2.11	118.27	123.59
21	b	838	CLA	C1-C2-C3	-2.11	122.39	126.04
21	9	316	CLA	O2A-CGA-O1A	-2.11	118.27	123.59
27	j	102	BCR	C16-C15-C14	-2.11	119.16	123.47
21	b	807	CLA	CHD-C1D-ND	-2.10	122.52	124.45
27	i	101	BCR	C10-C11-C12	-2.10	116.65	123.22
21	4	311	CLA	O2D-CGD-CBD	2.10	115.01	111.27
21	b	816	CLA	C1-C2-C3	-2.10	122.41	126.04
21	a	829	CLA	O2A-CGA-O1A	-2.10	118.28	123.59
21	b	829	CLA	O2A-CGA-O1A	-2.10	118.29	123.59
19	9	304	XAT	O24-C25-C38	2.10	117.57	115.06
21	1	306	CLA	CAC-C3C-C4C	2.10	127.54	124.81
27	b	846	BCR	C15-C16-C17	-2.10	119.17	123.47
21	b	801	CLA	O2A-CGA-O1A	-2.10	118.29	123.59
21	b	810	CLA	CHD-C1D-ND	-2.10	122.52	124.45
21	8	309	CLA	O2A-CGA-O1A	-2.10	118.29	123.59
21	4	308	CLA	O2A-CGA-O1A	-2.10	118.29	123.59
21	b	819	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
21	a	829	CLA	CHD-C1D-ND	-2.10	122.53	124.45
21	b	822	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
21	b	806	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
21	b	839	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
19	7	305	XAT	O4-C5-C18	2.09	117.57	115.06
21	a	804	CLA	CHD-C1D-ND	-2.09	122.53	124.45
19	6	303	XAT	C27-C28-C29	-2.09	122.28	125.53
21	9	308	CLA	O2A-CGA-O1A	-2.09	118.31	123.59
19	5	303	XAT	C30-C31-C32	-2.09	116.68	123.22
21	b	821	CLA	CHD-C1D-ND	-2.09	122.53	124.45
21	a	844	CLA	O2A-CGA-O1A	-2.09	118.31	123.59
27	b	848	BCR	C23-C24-C25	-2.09	121.33	127.20
21	a	832	CLA	CHD-C1D-ND	-2.09	122.53	124.45
21	4	308	CLA	O2D-CGD-CBD	2.09	114.98	111.27
19	4	305	XAT	O24-C25-C38	2.09	117.56	115.06
21	6	311	CLA	CHD-C1D-ND	-2.09	122.53	124.45
19	7	305	XAT	O24-C25-C38	2.09	117.56	115.06
19	5	301	XAT	C28-C29-C30	2.09	122.14	118.94
19	7	301	XAT	C10-C11-C12	-2.09	116.70	123.22
21	a	834	CLA	CHD-C1D-ND	-2.09	122.54	124.45
21	5	309	CLA	O2A-CGA-O1A	-2.09	118.33	123.59
27	j	102	BCR	C29-C30-C25	2.09	113.69	110.48
23	6	301	A1L1F	C12-C6-C1	-2.09	108.61	110.47
21	a	809	CLA	CHD-C1D-ND	-2.08	122.54	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	5	302	XAT	O4-C5-C18	2.08	117.55	115.06
19	7	303	XAT	C15-C35-C34	-2.08	119.20	123.47
21	b	824	CLA	CHD-C1D-ND	-2.08	122.54	124.45
21	a	852	CLA	O2A-CGA-O1A	-2.08	118.33	123.59
21	b	830	CLA	CMA-C3A-C2A	-2.08	111.24	116.10
19	4	305	XAT	O4-C5-C18	2.08	117.55	115.06
21	b	823	CLA	C1-C2-C3	-2.08	122.44	126.04
23	h	202	A1L1F	C26-O13-C45	2.08	120.31	115.68
19	9	305	XAT	C31-C32-C33	-2.08	120.58	126.42
21	b	807	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
21	b	812	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
23	9	302	A1L1F	C17-C20-C21	2.08	116.62	114.28
21	9	312	CLA	CHD-C1D-ND	-2.08	122.55	124.45
21	4	314	CLA	CHD-C1D-ND	-2.08	122.55	124.45
21	a	827	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
19	7	304	XAT	C8-C9-C10	2.08	122.13	118.94
19	9	304	XAT	C31-C30-C29	-2.08	124.35	127.31
21	a	809	CLA	O2D-CGD-CBD	2.08	114.96	111.27
21	7	313	CLA	C1-C2-C3	-2.08	122.45	126.04
21	b	841	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
21	4	309	CLA	C1-C2-C3	-2.08	123.39	126.75
21	8	313	CLA	CHD-C1D-ND	-2.08	122.55	124.45
21	a	856	CLA	O2A-CGA-O1A	-2.07	118.36	123.59
21	1	310	CLA	CHD-C1D-ND	-2.07	122.55	124.45
19	4	302	XAT	O4-C5-C4	2.07	114.94	113.38
23	6	304	A1L1F	C12-C6-C1	-2.07	108.62	110.47
19	5	302	XAT	C39-C29-C28	2.07	121.34	118.08
19	4	301	XAT	O4-C5-C18	2.07	117.54	115.06
21	b	811	CLA	CHD-C1D-ND	-2.07	122.55	124.45
19	7	301	XAT	O4-C5-C18	2.07	117.54	115.06
21	1	312	CLA	CHD-C1D-ND	-2.07	122.55	124.45
19	7	304	XAT	C20-C13-C14	-2.07	120.02	122.92
21	b	801	CLA	CHD-C1D-ND	-2.07	122.55	124.45
21	6	307	CLA	CHD-C1D-ND	-2.07	122.55	124.45
23	8	304	A1L1F	C20-C21-C22	-2.07	108.66	112.75
21	6	313	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
27	b	852	BCR	C34-C9-C10	-2.07	120.03	122.92
27	a	847	BCR	C28-C27-C26	-2.07	110.39	114.08
19	4	303	XAT	C35-C15-C14	-2.07	119.24	123.47
19	6	306	XAT	O4-C5-C18	2.07	117.53	115.06
19	9	303	XAT	C11-C12-C13	-2.07	120.61	126.42
21	a	822	CLA	O2A-CGA-O1A	-2.07	118.38	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	a	840	CLA	C1-C2-C3	-2.06	122.47	126.04
21	5	308	CLA	CHD-C1D-ND	-2.06	122.56	124.45
21	b	838	CLA	O2A-CGA-O1A	-2.06	118.38	123.59
19	5	305	XAT	O4-C5-C18	2.06	117.53	115.06
23	6	301	A1L1F	C5-C6-C1	-2.06	108.62	110.47
27	b	853	BCR	C33-C5-C4	2.06	117.58	113.62
25	b	851	DGD	O5E-C6E-C5E	-2.06	104.22	111.29
21	b	833	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
27	a	849	BCR	C15-C16-C17	-2.06	119.25	123.47
27	b	845	BCR	C16-C15-C14	-2.06	119.25	123.47
21	5	306	CLA	CHD-C1D-ND	-2.06	122.56	124.45
21	b	813	CLA	CHD-C1D-ND	-2.06	122.56	124.45
19	4	301	XAT	O24-C25-C38	2.06	117.53	115.06
19	5	305	XAT	C35-C15-C14	-2.06	119.25	123.47
27	b	846	BCR	C28-C27-C26	-2.06	110.40	114.08
21	h	203	CLA	O2D-CGD-CBD	2.06	114.93	111.27
27	b	845	BCR	C8-C9-C10	2.06	122.10	118.94
21	9	309	CLA	CHD-C1D-ND	-2.06	122.56	124.45
21	b	804	CLA	CHD-C1D-ND	-2.06	122.56	124.45
19	7	305	XAT	C7-C8-C9	-2.06	122.33	125.53
21	4	316	CLA	CHD-C1D-ND	-2.06	122.56	124.45
25	8	315	DGD	O2G-C1B-O1B	-2.06	118.73	123.70
21	9	313	CLA	CHD-C1D-ND	-2.06	122.56	124.45
21	5	315	CLA	CHD-C1D-ND	-2.06	122.56	124.45
19	1	303	XAT	O24-C25-C38	2.06	117.52	115.06
23	8	304	A1L1F	C27-C34-C33	2.06	121.32	118.08
21	f	802	CLA	C1-C2-C3	-2.06	122.49	126.04
19	1	302	XAT	O4-C5-C18	2.06	117.52	115.06
21	b	803	CLA	CAC-C3C-C4C	2.05	127.48	124.81
21	f	803	CLA	C1-C2-C3	-2.05	122.49	126.04
21	b	817	CLA	O2A-CGA-O1A	-2.05	118.41	123.59
21	b	827	CLA	C1-C2-C3	-2.05	122.50	126.04
22	5	317	SQD	O8-S-C6	2.05	109.01	105.74
19	4	304	XAT	C19-C9-C8	2.05	121.31	118.08
21	a	824	CLA	CHD-C1D-ND	-2.05	122.57	124.45
21	5	312	CLA	CHD-C1D-ND	-2.05	122.57	124.45
27	f	804	BCR	C21-C20-C19	-2.05	116.83	123.22
21	1	311	CLA	O2A-CGA-O1A	-2.05	118.42	123.59
21	a	832	CLA	O2A-CGA-O1A	-2.05	118.43	123.59
19	4	302	XAT	O24-C25-C38	2.05	117.51	115.06
19	8	301	XAT	C39-C29-C28	2.05	121.30	118.08
21	a	808	CLA	O2A-CGA-O1A	-2.05	118.43	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	1	307	CLA	O2A-CGA-O1A	-2.04	118.43	123.59
21	b	815	CLA	CHD-C1D-ND	-2.04	122.58	124.45
21	b	820	CLA	CHD-C1D-ND	-2.04	122.58	124.45
21	l	203	CLA	CHD-C1D-ND	-2.04	122.58	124.45
19	9	305	XAT	C11-C12-C13	-2.04	120.68	126.42
27	f	804	BCR	C33-C5-C4	2.04	117.54	113.62
21	b	840	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
19	1	302	XAT	O24-C25-C38	2.04	117.50	115.06
21	b	827	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
21	a	825	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
21	a	836	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
19	8	302	XAT	O4-C5-C18	2.04	117.50	115.06
19	6	305	XAT	O24-C25-C38	2.04	117.50	115.06
21	7	307	CLA	CHD-C1D-ND	-2.04	122.58	124.45
27	b	846	BCR	C35-C13-C12	2.04	121.29	118.08
27	b	848	BCR	C33-C5-C4	2.04	117.53	113.62
21	a	818	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
21	b	831	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
19	6	306	XAT	C10-C11-C12	-2.04	116.86	123.22
21	b	830	CLA	CHD-C1D-ND	-2.03	122.58	124.45
21	8	311	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
21	h	203	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
21	1	310	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
19	7	301	XAT	C19-C9-C8	2.03	121.28	118.08
19	1	303	XAT	O4-C5-C18	2.03	117.49	115.06
21	8	307	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
27	f	804	BCR	C34-C9-C10	-2.03	120.07	122.92
27	a	847	BCR	C20-C19-C18	-2.03	120.70	126.42
21	a	821	CLA	O2A-CGA-O1A	-2.03	118.23	123.30
19	7	305	XAT	O4-C5-C4	2.03	114.91	113.38
19	5	303	XAT	O4-C5-C18	2.03	117.49	115.06
19	7	304	XAT	O4-C5-C18	2.03	117.49	115.06
21	a	823	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
21	9	315	CLA	CHD-C1D-ND	-2.03	122.59	124.45
21	f	802	CLA	CHD-C1D-ND	-2.03	122.59	124.45
21	4	317	CLA	O2A-CGA-O1A	-2.03	118.47	123.59
20	9	306	A1L1G	C20-C21-C22	2.03	116.77	112.75
21	b	814	CLA	C1-C2-C3	-2.03	122.53	126.04
21	b	835	CLA	C1-C2-C3	-2.03	122.53	126.04
21	b	829	CLA	O2D-CGD-CBD	2.03	114.87	111.27
19	6	302	XAT	C39-C29-C30	-2.03	120.08	122.92
27	a	850	BCR	C37-C22-C21	-2.03	120.08	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	819	CLA	CHD-C1D-ND	-2.03	122.59	124.45
19	9	304	XAT	C40-C33-C32	2.03	121.27	118.08
21	a	811	CLA	O2A-CGA-O1A	-2.03	118.48	123.59
21	a	838	CLA	CHD-C1D-ND	-2.03	122.59	124.45
21	a	838	CLA	C1-C2-C3	-2.03	122.54	126.04
21	5	312	CLA	C1-C2-C3	-2.03	122.54	126.04
27	f	804	BCR	C8-C7-C6	-2.03	121.51	127.20
21	a	809	CLA	O2A-CGA-O1A	-2.03	118.48	123.59
21	a	830	CLA	O2A-CGA-O1A	-2.03	118.48	123.59
19	1	303	XAT	C20-C13-C12	2.02	121.27	118.08
21	9	308	CLA	C1-C2-C3	-2.02	122.54	126.04
21	1	306	CLA	O2A-CGA-O1A	-2.02	118.48	123.59
21	a	833	CLA	O2A-CGA-O1A	-2.02	118.48	123.59
19	a	854	XAT	C20-C13-C14	-2.02	120.09	122.92
19	5	301	XAT	O4-C5-C18	2.02	117.48	115.06
23	1	304	A1L1F	C25-C14-C29	-2.02	121.72	125.99
27	b	848	BCR	C8-C9-C10	-2.02	115.84	118.94
21	1	311	CLA	O2D-CGD-CBD	2.02	114.86	111.27
21	4	310	CLA	CHD-C1D-ND	-2.02	122.60	124.45
21	b	816	CLA	O2D-CGD-CBD	2.02	114.86	111.27
19	9	305	XAT	C7-C8-C9	-2.02	122.39	125.53
21	8	306	CLA	CHD-C1D-ND	-2.02	122.60	124.45
21	a	814	CLA	O2A-CGA-O1A	-2.02	118.49	123.59
25	8	315	DGD	C4D-C3D-C2D	-2.02	107.30	110.82
21	h	203	CLA	C1-C2-C3	-2.02	122.55	126.04
19	a	854	XAT	C39-C29-C28	2.02	121.26	118.08
21	a	815	CLA	O2A-CGA-O1A	-2.02	118.27	123.30
21	a	816	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
27	a	848	BCR	C28-C27-C26	-2.02	110.48	114.08
21	b	824	CLA	O2A-CGA-O1A	-2.01	118.51	123.59
21	b	809	CLA	O2A-CGA-O1A	-2.01	118.51	123.59
27	b	847	BCR	C2-C1-C6	2.01	113.58	110.48
21	1	307	CLA	CHD-C1D-ND	-2.01	122.60	124.45
21	b	810	CLA	C1-C2-C3	-2.01	122.56	126.04
21	a	811	CLA	C1-C2-C3	-2.01	122.56	126.04
19	7	305	XAT	C11-C12-C13	-2.01	120.77	126.42
21	a	817	CLA	CHD-C1D-ND	-2.01	122.61	124.45
19	1	303	XAT	C11-C10-C9	-2.01	124.44	127.31
21	b	802	CLA	O2D-CGD-CBD	2.01	114.84	111.27
21	b	807	CLA	O2D-CGD-CBD	2.01	114.84	111.27
21	6	310	CLA	CHD-C1D-ND	-2.01	122.61	124.45
21	7	315	CLA	CHD-C1D-ND	-2.01	122.61	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	b	814	CLA	O2A-CGA-O1A	-2.01	118.52	123.59
19	4	301	XAT	O4-C5-C4	2.01	114.89	113.38
19	7	304	XAT	C31-C32-C33	-2.01	120.78	126.42
21	b	802	CLA	O2A-CGA-O1A	-2.01	118.53	123.59
21	5	306	CLA	C2D-C1D-ND	-2.01	108.63	110.10
19	8	301	XAT	O4-C5-C18	2.00	117.46	115.06
19	9	303	XAT	C19-C9-C8	2.00	121.23	118.08
21	b	803	CLA	C2D-C1D-ND	-2.00	108.63	110.10
19	1	302	XAT	C30-C31-C32	-2.00	116.96	123.22
21	b	803	CLA	O2D-CGD-CBD	2.00	114.83	111.27
21	5	307	CLA	CHD-C1D-ND	-2.00	122.61	124.45
21	a	801	CLA	C2D-C1D-ND	-2.00	108.63	110.10
21	6	312	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
19	1	302	XAT	C10-C11-C12	-2.00	116.97	123.22
21	a	802	CLA	CHD-C1D-ND	-2.00	122.61	124.45
21	8	312	CLA	CHD-C1D-ND	-2.00	122.62	124.45
27	b	843	BCR	C16-C15-C14	-2.00	119.38	123.47

All (168) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
21	5	306	CLA	ND
21	5	307	CLA	ND
21	5	308	CLA	ND
21	5	309	CLA	ND
21	5	310	CLA	ND
21	5	311	CLA	ND
21	5	312	CLA	ND
21	5	313	CLA	ND
21	5	314	CLA	ND
21	5	315	CLA	ND
21	5	316	CLA	ND
21	9	308	CLA	ND
21	9	309	CLA	ND
21	9	310	CLA	ND
21	9	311	CLA	ND
21	9	312	CLA	ND
21	9	313	CLA	ND
21	9	314	CLA	ND
21	9	315	CLA	ND
21	9	316	CLA	ND
21	8	305	CLA	ND

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Mol	Chain	Res	Type	Atom
21	8	306	CLA	ND
21	8	307	CLA	ND
21	8	308	CLA	ND
21	8	309	CLA	ND
21	8	310	CLA	ND
21	8	311	CLA	ND
21	8	312	CLA	ND
21	8	313	CLA	ND
21	8	314	CLA	ND
21	4	306	CLA	ND
21	4	307	CLA	ND
21	4	308	CLA	ND
21	4	309	CLA	ND
21	4	310	CLA	ND
21	4	311	CLA	ND
21	4	312	CLA	ND
21	4	313	CLA	ND
21	4	314	CLA	ND
21	4	315	CLA	ND
21	4	316	CLA	ND
21	4	317	CLA	ND
21	6	307	CLA	ND
21	6	308	CLA	ND
21	6	309	CLA	ND
21	6	310	CLA	ND
21	6	311	CLA	ND
21	6	312	CLA	ND
21	6	313	CLA	ND
21	6	314	CLA	ND
21	6	315	CLA	ND
21	6	316	CLA	ND
21	7	306	CLA	ND
21	7	307	CLA	ND
21	7	308	CLA	ND
21	7	309	CLA	ND
21	7	310	CLA	ND
21	7	311	CLA	ND
21	7	312	CLA	ND
21	7	313	CLA	ND
21	7	314	CLA	ND
21	7	315	CLA	ND
21	7	316	CLA	ND

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Mol	Chain	Res	Type	Atom
21	7	317	CLA	ND
21	1	305	CLA	ND
21	1	306	CLA	ND
21	1	307	CLA	ND
21	1	308	CLA	ND
21	1	309	CLA	ND
21	1	310	CLA	ND
21	1	311	CLA	ND
21	1	312	CLA	ND
21	1	313	CLA	ND
21	1	314	CLA	ND
21	a	801	CLA	ND
21	a	802	CLA	ND
21	a	803	CLA	ND
21	a	804	CLA	ND
21	a	805	CLA	ND
21	a	806	CLA	ND
21	a	807	CLA	ND
21	a	808	CLA	ND
21	a	809	CLA	ND
21	a	810	CLA	ND
21	a	811	CLA	ND
21	a	812	CLA	ND
21	a	813	CLA	ND
21	a	814	CLA	ND
21	a	815	CLA	ND
21	a	816	CLA	ND
21	a	817	CLA	ND
21	a	818	CLA	ND
21	a	819	CLA	ND
21	a	820	CLA	ND
21	a	821	CLA	ND
21	a	822	CLA	ND
21	a	823	CLA	ND
21	a	824	CLA	ND
21	a	825	CLA	ND
21	a	826	CLA	ND
21	a	827	CLA	ND
21	a	828	CLA	ND
21	a	829	CLA	ND
21	a	830	CLA	ND
21	a	831	CLA	ND

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Mol	Chain	Res	Type	Atom
21	a	832	CLA	ND
21	a	833	CLA	ND
21	a	834	CLA	ND
21	a	835	CLA	ND
21	a	836	CLA	ND
21	a	837	CLA	ND
21	a	838	CLA	ND
21	a	839	CLA	ND
21	a	840	CLA	ND
21	a	841	CLA	ND
21	a	842	CLA	ND
21	a	844	CLA	ND
21	a	852	CLA	ND
21	a	856	CLA	ND
21	b	801	CLA	ND
21	b	802	CLA	ND
21	b	803	CLA	ND
21	b	804	CLA	ND
21	b	805	CLA	ND
21	b	806	CLA	ND
21	b	807	CLA	ND
21	b	808	CLA	ND
21	b	809	CLA	ND
21	b	810	CLA	ND
21	b	811	CLA	ND
21	b	812	CLA	ND
21	b	813	CLA	ND
21	b	814	CLA	ND
21	b	815	CLA	ND
21	b	816	CLA	ND
21	b	817	CLA	ND
21	b	818	CLA	ND
21	b	819	CLA	ND
21	b	820	CLA	ND
21	b	821	CLA	ND
21	b	822	CLA	ND
21	b	823	CLA	ND
21	b	824	CLA	ND
21	b	825	CLA	ND
21	b	826	CLA	ND
21	b	827	CLA	ND
21	b	828	CLA	ND

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Mol	Chain	Res	Type	Atom
21	b	829	CLA	ND
21	b	830	CLA	ND
21	b	831	CLA	ND
21	b	832	CLA	ND
21	b	833	CLA	ND
21	b	834	CLA	ND
21	b	835	CLA	ND
21	b	836	CLA	ND
21	b	837	CLA	ND
21	b	838	CLA	ND
21	b	839	CLA	ND
21	b	840	CLA	ND
21	b	841	CLA	ND
21	f	802	CLA	ND
21	f	803	CLA	ND
21	h	201	CLA	ND
21	h	203	CLA	ND
21	j	101	CLA	ND
21	l	201	CLA	ND
21	l	202	CLA	ND
21	l	203	CLA	ND

All (1904) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
19	5	301	XAT	C27-C28-C29-C30
19	5	301	XAT	C27-C28-C29-C39
19	5	303	XAT	O4-C6-C7-C8
19	5	303	XAT	C7-C8-C9-C10
19	5	303	XAT	C7-C8-C9-C19
19	9	303	XAT	O4-C6-C7-C8
19	9	304	XAT	O24-C26-C27-C28
19	9	305	XAT	O4-C6-C7-C8
19	9	305	XAT	C7-C8-C9-C10
19	9	305	XAT	C7-C8-C9-C19
19	8	301	XAT	C7-C8-C9-C19
19	8	302	XAT	O4-C6-C7-C8
19	8	302	XAT	C7-C8-C9-C10
19	8	302	XAT	C7-C8-C9-C19
19	4	301	XAT	O4-C6-C7-C8
19	4	301	XAT	C27-C28-C29-C30
19	4	301	XAT	C27-C28-C29-C39

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Mol	Chain	Res	Type	Atoms
19	4	303	XAT	O4-C6-C7-C8
19	4	303	XAT	C7-C8-C9-C10
19	4	303	XAT	C7-C8-C9-C19
19	4	305	XAT	O24-C26-C27-C28
19	6	302	XAT	O24-C26-C27-C28
19	6	302	XAT	C27-C28-C29-C30
19	6	302	XAT	C27-C28-C29-C39
19	6	303	XAT	O4-C6-C7-C8
19	6	305	XAT	O24-C26-C27-C28
19	6	305	XAT	C27-C28-C29-C30
19	6	305	XAT	C27-C28-C29-C39
19	6	306	XAT	C27-C28-C29-C30
19	6	306	XAT	C27-C28-C29-C39
19	7	301	XAT	O4-C6-C7-C8
19	7	301	XAT	C27-C28-C29-C30
19	7	301	XAT	C27-C28-C29-C39
19	7	303	XAT	O4-C6-C7-C8
19	7	303	XAT	O24-C26-C27-C28
19	7	303	XAT	C27-C28-C29-C30
19	7	303	XAT	C27-C28-C29-C39
19	7	304	XAT	O4-C6-C7-C8
19	7	304	XAT	C11-C12-C13-C14
19	7	304	XAT	C11-C12-C13-C20
19	a	853	XAT	O4-C6-C7-C8
19	a	853	XAT	C7-C8-C9-C10
19	a	853	XAT	C7-C8-C9-C19
19	a	853	XAT	O24-C26-C27-C28
19	a	854	XAT	C7-C8-C9-C10
19	a	854	XAT	C7-C8-C9-C19
19	a	854	XAT	C11-C12-C13-C14
19	a	854	XAT	C11-C12-C13-C20
19	a	854	XAT	C27-C28-C29-C30
19	a	854	XAT	C27-C28-C29-C39
20	5	304	A1L1G	C26-C30-C31-C32
20	5	304	A1L1G	C31-C32-C33-C34
20	5	304	A1L1G	C32-C33-C34-C27
20	5	304	A1L1G	C32-C33-C34-C35
20	5	304	A1L1G	C41-C42-C44-C2
20	5	304	A1L1G	C41-C42-C44-C43
20	9	301	A1L1G	O13-C26-C30-C29
20	9	301	A1L1G	C26-C30-C31-C32
20	9	301	A1L1G	C31-C32-C33-C34

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Mol	Chain	Res	Type	Atoms
20	9	301	A1L1G	C28-C39-C40-C41
20	9	301	A1L1G	C38-C39-C40-C41
20	9	301	A1L1G	C39-C40-C41-C42
20	9	306	A1L1G	C45-C2-C44-C42
20	9	306	A1L1G	C45-C2-C44-C43
20	9	306	A1L1G	C29-C14-C25-C24
20	9	306	A1L1G	C25-C14-C29-C30
20	9	306	A1L1G	C35-C36-C37-C38
20	9	306	A1L1G	C37-C38-C39-C28
20	9	306	A1L1G	C37-C38-C39-C40
20	7	302	A1L1G	C45-C2-C44-C42
20	7	302	A1L1G	C29-C14-C25-C24
20	7	302	A1L1G	C35-C36-C37-C38
20	7	302	A1L1G	C37-C38-C39-C28
20	7	302	A1L1G	C37-C38-C39-C40
20	7	302	A1L1G	C39-C40-C41-C42
20	7	302	A1L1G	C41-C42-C44-C2
20	7	302	A1L1G	C41-C42-C44-C43
20	1	301	A1L1G	C45-C2-C44-C42
20	1	301	A1L1G	C45-C2-C44-C43
20	1	301	A1L1G	O13-C26-C30-C29
20	1	301	A1L1G	C27-C34-C35-C36
20	1	301	A1L1G	C33-C34-C35-C36
20	1	301	A1L1G	C35-C36-C37-C38
20	1	301	A1L1G	C28-C39-C40-C41
20	1	301	A1L1G	C38-C39-C40-C41
20	1	301	A1L1G	C39-C40-C41-C42
21	5	308	CLA	CHA-CBD-CGD-O1D
21	5	308	CLA	CHA-CBD-CGD-O2D
21	5	309	CLA	CBD-CGD-O2D-CED
21	5	310	CLA	CHA-CBD-CGD-O1D
21	5	310	CLA	CHA-CBD-CGD-O2D
21	5	310	CLA	CAD-CBD-CGD-O1D
21	5	310	CLA	CAD-CBD-CGD-O2D
21	5	311	CLA	CBD-CGD-O2D-CED
21	5	315	CLA	C1A-C2A-CAA-CBA
21	5	315	CLA	C3A-C2A-CAA-CBA
21	5	316	CLA	CBD-CGD-O2D-CED
21	5	316	CLA	O1D-CGD-O2D-CED
21	9	308	CLA	CBD-CGD-O2D-CED
21	9	310	CLA	CHA-CBD-CGD-O1D
21	9	310	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
21	9	311	CLA	CHA-CBD-CGD-O1D
21	9	311	CLA	CHA-CBD-CGD-O2D
21	9	311	CLA	CBD-CGD-O2D-CED
21	9	311	CLA	O1D-CGD-O2D-CED
21	9	313	CLA	C2A-CAA-CBA-CGA
21	9	314	CLA	CHA-CBD-CGD-O1D
21	9	314	CLA	CHA-CBD-CGD-O2D
21	9	315	CLA	CHA-CBD-CGD-O1D
21	9	315	CLA	CHA-CBD-CGD-O2D
21	9	315	CLA	CBD-CGD-O2D-CED
21	8	307	CLA	CHA-CBD-CGD-O1D
21	8	307	CLA	CHA-CBD-CGD-O2D
21	8	311	CLA	C2-C3-C5-C6
21	8	311	CLA	C4-C3-C5-C6
21	4	306	CLA	C1A-C2A-CAA-CBA
21	4	307	CLA	CHA-CBD-CGD-O2D
21	4	309	CLA	CHA-CBD-CGD-O1D
21	4	309	CLA	CHA-CBD-CGD-O2D
21	4	309	CLA	CBD-CGD-O2D-CED
21	4	310	CLA	C1A-C2A-CAA-CBA
21	4	311	CLA	CBA-CGA-O2A-C1
21	4	311	CLA	CBD-CGD-O2D-CED
21	4	312	CLA	C1A-C2A-CAA-CBA
21	4	312	CLA	C3A-C2A-CAA-CBA
21	4	313	CLA	CHA-CBD-CGD-O1D
21	4	313	CLA	CHA-CBD-CGD-O2D
21	4	315	CLA	CHA-CBD-CGD-O1D
21	4	315	CLA	CHA-CBD-CGD-O2D
21	4	316	CLA	C2A-CAA-CBA-CGA
21	4	316	CLA	CBD-CGD-O2D-CED
21	4	317	CLA	CBD-CGD-O2D-CED
21	6	309	CLA	C6-C7-C8-C9
21	6	310	CLA	CHA-CBD-CGD-O1D
21	6	310	CLA	CHA-CBD-CGD-O2D
21	6	311	CLA	C1A-C2A-CAA-CBA
21	6	311	CLA	C3A-C2A-CAA-CBA
21	6	314	CLA	CBD-CGD-O2D-CED
21	6	315	CLA	CBD-CGD-O2D-CED
21	6	316	CLA	C1A-C2A-CAA-CBA
21	7	306	CLA	C3A-C2A-CAA-CBA
21	7	306	CLA	CBD-CGD-O2D-CED
21	7	307	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	7	310	CLA	CBA-CGA-O2A-C1
21	7	311	CLA	CBA-CGA-O2A-C1
21	7	313	CLA	CHA-CBD-CGD-O1D
21	7	313	CLA	CHA-CBD-CGD-O2D
21	7	314	CLA	CBD-CGD-O2D-CED
21	7	315	CLA	CHA-CBD-CGD-O1D
21	7	315	CLA	CBD-CGD-O2D-CED
21	7	316	CLA	C1A-C2A-CAA-CBA
21	7	316	CLA	C3A-C2A-CAA-CBA
21	1	305	CLA	CHA-CBD-CGD-O1D
21	1	305	CLA	CHA-CBD-CGD-O2D
21	1	305	CLA	C11-C10-C8-C9
21	1	307	CLA	O1A-CGA-O2A-C1
21	1	310	CLA	CBD-CGD-O2D-CED
21	1	311	CLA	CHA-CBD-CGD-O1D
21	1	311	CLA	CHA-CBD-CGD-O2D
21	1	313	CLA	CBD-CGD-O2D-CED
21	1	314	CLA	C1A-C2A-CAA-CBA
21	1	314	CLA	C3A-C2A-CAA-CBA
21	a	801	CLA	CHA-CBD-CGD-O1D
21	a	801	CLA	CHA-CBD-CGD-O2D
21	a	801	CLA	CBD-CGD-O2D-CED
21	a	805	CLA	C1A-C2A-CAA-CBA
21	a	805	CLA	C3A-C2A-CAA-CBA
21	a	806	CLA	CHA-CBD-CGD-O1D
21	a	806	CLA	CHA-CBD-CGD-O2D
21	a	806	CLA	O2A-C1-C2-C3
21	a	809	CLA	C1A-C2A-CAA-CBA
21	a	809	CLA	C3A-C2A-CAA-CBA
21	a	811	CLA	CHA-CBD-CGD-O1D
21	a	811	CLA	CHA-CBD-CGD-O2D
21	a	811	CLA	CBD-CGD-O2D-CED
21	a	817	CLA	C2A-CAA-CBA-CGA
21	a	818	CLA	C1A-C2A-CAA-CBA
21	a	818	CLA	C3A-C2A-CAA-CBA
21	a	818	CLA	CHA-CBD-CGD-O1D
21	a	818	CLA	CHA-CBD-CGD-O2D
21	a	819	CLA	C3A-C2A-CAA-CBA
21	a	820	CLA	C1A-C2A-CAA-CBA
21	a	820	CLA	C3A-C2A-CAA-CBA
21	a	823	CLA	C1A-C2A-CAA-CBA
21	a	823	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	a	825	CLA	CHA-CBD-CGD-O1D
21	a	825	CLA	CHA-CBD-CGD-O2D
21	a	829	CLA	C1A-C2A-CAA-CBA
21	a	829	CLA	CBD-CGD-O2D-CED
21	a	831	CLA	C2-C3-C5-C6
21	a	831	CLA	C4-C3-C5-C6
21	a	832	CLA	C1A-C2A-CAA-CBA
21	a	832	CLA	C3A-C2A-CAA-CBA
21	a	838	CLA	C1A-C2A-CAA-CBA
21	a	838	CLA	C2-C3-C5-C6
21	a	838	CLA	C4-C3-C5-C6
21	a	839	CLA	C2-C3-C5-C6
21	a	839	CLA	C4-C3-C5-C6
21	a	840	CLA	CHA-CBD-CGD-O1D
21	a	840	CLA	CHA-CBD-CGD-O2D
21	a	841	CLA	CHA-CBD-CGD-O1D
21	a	841	CLA	CHA-CBD-CGD-O2D
21	a	844	CLA	CHA-CBD-CGD-O1D
21	a	844	CLA	CHA-CBD-CGD-O2D
21	a	856	CLA	C1A-C2A-CAA-CBA
21	b	802	CLA	CHA-CBD-CGD-O1D
21	b	802	CLA	CHA-CBD-CGD-O2D
21	b	802	CLA	CBD-CGD-O2D-CED
21	b	803	CLA	CBD-CGD-O2D-CED
21	b	804	CLA	C2A-CAA-CBA-CGA
21	b	805	CLA	C1A-C2A-CAA-CBA
21	b	805	CLA	C3A-C2A-CAA-CBA
21	b	805	CLA	CHA-CBD-CGD-O1D
21	b	805	CLA	CHA-CBD-CGD-O2D
21	b	805	CLA	CAD-CBD-CGD-O1D
21	b	809	CLA	C1A-C2A-CAA-CBA
21	b	809	CLA	C2A-CAA-CBA-CGA
21	b	810	CLA	C1A-C2A-CAA-CBA
21	b	810	CLA	CHA-CBD-CGD-O1D
21	b	810	CLA	CHA-CBD-CGD-O2D
21	b	810	CLA	CAD-CBD-CGD-O1D
21	b	812	CLA	C1A-C2A-CAA-CBA
21	b	812	CLA	C2-C3-C5-C6
21	b	812	CLA	C4-C3-C5-C6
21	b	814	CLA	C1A-C2A-CAA-CBA
21	b	814	CLA	CBD-CGD-O2D-CED
21	b	817	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	b	818	CLA	C1A-C2A-CAA-CBA
21	b	818	CLA	C3A-C2A-CAA-CBA
21	b	820	CLA	C1A-C2A-CAA-CBA
21	b	820	CLA	C3A-C2A-CAA-CBA
21	b	820	CLA	CHA-CBD-CGD-O1D
21	b	820	CLA	CHA-CBD-CGD-O2D
21	b	823	CLA	CHA-CBD-CGD-O1D
21	b	823	CLA	CHA-CBD-CGD-O2D
21	b	826	CLA	CHA-CBD-CGD-O1D
21	b	826	CLA	CHA-CBD-CGD-O2D
21	b	828	CLA	C1A-C2A-CAA-CBA
21	b	828	CLA	C3A-C2A-CAA-CBA
21	b	832	CLA	C1A-C2A-CAA-CBA
21	b	832	CLA	C3A-C2A-CAA-CBA
21	b	833	CLA	C1A-C2A-CAA-CBA
21	b	833	CLA	C2-C3-C5-C6
21	b	833	CLA	C4-C3-C5-C6
21	b	834	CLA	C1A-C2A-CAA-CBA
21	b	834	CLA	C3A-C2A-CAA-CBA
21	b	834	CLA	C11-C12-C13-C14
21	b	835	CLA	CBD-CGD-O2D-CED
21	b	837	CLA	CHA-CBD-CGD-O1D
21	b	837	CLA	CHA-CBD-CGD-O2D
21	b	840	CLA	C1A-C2A-CAA-CBA
21	b	840	CLA	C3A-C2A-CAA-CBA
21	b	840	CLA	CHA-CBD-CGD-O1D
21	b	840	CLA	CHA-CBD-CGD-O2D
21	b	840	CLA	CAD-CBD-CGD-O1D
21	b	840	CLA	CBD-CGD-O2D-CED
21	h	201	CLA	C1A-C2A-CAA-CBA
21	j	101	CLA	CAD-CBD-CGD-O1D
21	j	101	CLA	CAD-CBD-CGD-O2D
21	j	101	CLA	CBD-CGD-O2D-CED
21	l	201	CLA	CHA-CBD-CGD-O1D
21	l	201	CLA	CHA-CBD-CGD-O2D
21	l	202	CLA	CHA-CBD-CGD-O1D
21	l	202	CLA	CHA-CBD-CGD-O2D
21	l	202	CLA	C6-C7-C8-C9
22	5	317	SQD	O49-C7-O47-C45
22	5	317	SQD	C8-C7-O47-C45
22	5	317	SQD	C5-C6-S-O7
22	5	317	SQD	C5-C6-S-O8

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Mol	Chain	Res	Type	Atoms
22	5	317	SQD	C5-C6-S-O9
22	1	315	SQD	O5-C5-C6-S
22	1	315	SQD	C5-C6-S-O7
22	1	315	SQD	C5-C6-S-O8
22	1	315	SQD	C5-C6-S-O9
23	9	302	A1L1F	C4-C8-O7-C54
23	9	302	A1L1F	O13-C26-C30-C31
23	8	304	A1L1F	C32-C33-C34-C27
23	8	304	A1L1F	C32-C33-C34-C35
23	8	304	A1L1F	C56-C54-O7-C8
23	8	304	A1L1F	O55-C54-O7-C8
23	6	304	A1L1F	C14-C29-C30-C31
23	1	304	A1L1F	C29-C14-C25-C24
23	1	304	A1L1F	C32-C33-C34-C27
23	1	304	A1L1F	C32-C33-C34-C35
23	1	304	A1L1F	C28-C39-C40-C41
23	1	304	A1L1F	C38-C39-C40-C41
23	h	202	A1L1F	C56-C54-O7-C8
23	h	202	A1L1F	O55-C54-O7-C8
24	9	307	LHG	C3-O3-P-O4
24	9	307	LHG	C3-O3-P-O5
24	9	307	LHG	C3-O3-P-O6
24	9	307	LHG	O9-C7-O7-C5
24	9	307	LHG	C8-C7-O7-C5
24	a	845	LHG	O1-C1-C2-C3
24	a	845	LHG	C3-O3-P-O4
24	a	845	LHG	C4-O6-P-O3
24	a	845	LHG	C4-O6-P-O5
24	a	845	LHG	O6-C4-C5-O7
24	a	845	LHG	O7-C5-C6-O8
24	a	846	LHG	O1-C1-C2-C3
24	a	846	LHG	O6-C4-C5-O7
24	b	849	LHG	O1-C1-C2-C3
24	b	849	LHG	C1-C2-C3-O3
24	b	849	LHG	O2-C2-C3-O3
24	b	849	LHG	C3-O3-P-O5
24	b	849	LHG	C4-O6-P-O3
24	b	849	LHG	C4-O6-P-O4
24	b	849	LHG	C4-O6-P-O5
24	m	101	LHG	C1-C2-C3-O3
24	m	101	LHG	C3-O3-P-O4
24	m	101	LHG	O9-C7-O7-C5

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Mol	Chain	Res	Type	Atoms
24	m	101	LHG	C8-C7-O7-C5
25	8	315	DGD	C2B-C1B-O2G-C2G
25	8	315	DGD	C2E-C1E-O5D-C6D
25	8	315	DGD	O6E-C1E-O5D-C6D
25	4	318	DGD	C2B-C1B-O2G-C2G
25	4	318	DGD	O1B-C1B-O2G-C2G
25	4	318	DGD	C2E-C1E-O5D-C6D
25	4	318	DGD	O6E-C1E-O5D-C6D
27	a	850	BCR	C23-C24-C25-C26
27	b	843	BCR	C7-C8-C9-C10
27	b	843	BCR	C7-C8-C9-C34
27	b	845	BCR	C1-C6-C7-C8
27	b	845	BCR	C5-C6-C7-C8
27	i	101	BCR	C21-C22-C23-C24
27	i	101	BCR	C37-C22-C23-C24
27	j	102	BCR	C7-C8-C9-C10
27	j	102	BCR	C7-C8-C9-C34
27	m	102	BCR	C1-C6-C7-C8
27	m	102	BCR	C7-C8-C9-C34
27	m	102	BCR	C21-C22-C23-C24
27	m	102	BCR	C37-C22-C23-C24
29	a	855	LMG	C11-C10-O7-C8
29	j	103	LMG	O9-C10-O7-C8
29	j	103	LMG	C11-C10-O7-C8
23	9	302	A1L1F	C56-C54-O7-C8
23	9	302	A1L1F	O55-C54-O7-C8
23	6	304	A1L1F	C56-C54-O7-C8
21	5	311	CLA	O1D-CGD-O2D-CED
21	9	315	CLA	O1D-CGD-O2D-CED
21	4	309	CLA	O1D-CGD-O2D-CED
21	7	314	CLA	O1D-CGD-O2D-CED
23	6	304	A1L1F	O55-C54-O7-C8
21	9	308	CLA	O1D-CGD-O2D-CED
21	6	315	CLA	O1D-CGD-O2D-CED
21	7	307	CLA	O1D-CGD-O2D-CED
21	1	313	CLA	O1D-CGD-O2D-CED
21	a	812	CLA	O1D-CGD-O2D-CED
21	b	802	CLA	O1D-CGD-O2D-CED
21	b	835	CLA	O1D-CGD-O2D-CED
21	5	314	CLA	CBD-CGD-O2D-CED
21	9	316	CLA	CBD-CGD-O2D-CED
21	8	306	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	4	306	CLA	CBD-CGD-O2D-CED
21	6	313	CLA	CBD-CGD-O2D-CED
21	1	309	CLA	CBD-CGD-O2D-CED
21	a	812	CLA	CBD-CGD-O2D-CED
21	8	308	CLA	O1A-CGA-O2A-C1
21	4	310	CLA	O1A-CGA-O2A-C1
21	a	806	CLA	O1A-CGA-O2A-C1
21	b	814	CLA	O1A-CGA-O2A-C1
23	6	304	A1L1F	O46-C45-O13-C26
24	m	101	LHG	O10-C23-O8-C6
21	7	310	CLA	O1A-CGA-O2A-C1
21	4	316	CLA	O1D-CGD-O2D-CED
21	7	315	CLA	O1D-CGD-O2D-CED
21	b	803	CLA	O1D-CGD-O2D-CED
21	5	309	CLA	O1D-CGD-O2D-CED
21	4	317	CLA	O1D-CGD-O2D-CED
21	7	306	CLA	O1D-CGD-O2D-CED
21	a	801	CLA	O1D-CGD-O2D-CED
21	a	811	CLA	O1D-CGD-O2D-CED
21	a	829	CLA	O1D-CGD-O2D-CED
21	b	814	CLA	O1D-CGD-O2D-CED
21	b	840	CLA	O1D-CGD-O2D-CED
21	j	101	CLA	O1D-CGD-O2D-CED
21	8	308	CLA	CBA-CGA-O2A-C1
21	1	307	CLA	CBA-CGA-O2A-C1
21	a	806	CLA	CBA-CGA-O2A-C1
21	b	814	CLA	CBA-CGA-O2A-C1
23	6	304	A1L1F	C47-C45-O13-C26
24	m	101	LHG	C24-C23-O8-C6
21	5	306	CLA	CBD-CGD-O2D-CED
21	5	307	CLA	CBD-CGD-O2D-CED
21	5	310	CLA	CBD-CGD-O2D-CED
21	9	312	CLA	CBD-CGD-O2D-CED
21	9	314	CLA	CBD-CGD-O2D-CED
21	8	309	CLA	CBD-CGD-O2D-CED
21	6	310	CLA	CBD-CGD-O2D-CED
21	7	310	CLA	CBD-CGD-O2D-CED
21	a	804	CLA	CBD-CGD-O2D-CED
21	a	814	CLA	CBD-CGD-O2D-CED
21	b	805	CLA	CBD-CGD-O2D-CED
21	b	819	CLA	CBD-CGD-O2D-CED
21	b	836	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	h	203	CLA	CBD-CGD-O2D-CED
21	7	312	CLA	O1A-CGA-O2A-C1
21	a	805	CLA	O1A-CGA-O2A-C1
21	a	818	CLA	O1A-CGA-O2A-C1
21	b	821	CLA	O1A-CGA-O2A-C1
21	f	802	CLA	O1A-CGA-O2A-C1
23	6	301	A1L1F	O46-C45-O13-C26
24	b	849	LHG	O10-C23-O8-C6
25	8	315	DGD	O1A-C1A-O1G-C1G
29	a	855	LMG	O10-C28-O8-C9
21	4	311	CLA	O1A-CGA-O2A-C1
21	7	311	CLA	O1A-CGA-O2A-C1
21	1	310	CLA	O1D-CGD-O2D-CED
23	6	301	A1L1F	C56-C54-O7-C8
21	4	311	CLA	O1D-CGD-O2D-CED
21	6	314	CLA	O1D-CGD-O2D-CED
21	4	307	CLA	CBD-CGD-O2D-CED
21	6	312	CLA	CBD-CGD-O2D-CED
21	7	308	CLA	CBD-CGD-O2D-CED
21	a	818	CLA	CBD-CGD-O2D-CED
21	a	837	CLA	CBD-CGD-O2D-CED
25	8	315	DGD	O1B-C1B-O2G-C2G
29	a	855	LMG	O9-C10-O7-C8
21	6	316	CLA	CBA-CGA-O2A-C1
21	1	309	CLA	CBA-CGA-O2A-C1
23	1	304	A1L1F	C56-C54-O7-C8
21	1	309	CLA	O1A-CGA-O2A-C1
21	l	203	CLA	O1A-CGA-O2A-C1
21	7	308	CLA	C3-C5-C6-C7
21	a	810	CLA	C3-C5-C6-C7
21	a	852	CLA	C3-C5-C6-C7
21	b	804	CLA	C3-C5-C6-C7
21	b	806	CLA	C3-C5-C6-C7
21	b	808	CLA	C3-C5-C6-C7
21	7	312	CLA	CBA-CGA-O2A-C1
21	a	805	CLA	CBA-CGA-O2A-C1
21	a	811	CLA	CBA-CGA-O2A-C1
21	a	818	CLA	CBA-CGA-O2A-C1
21	a	836	CLA	CBA-CGA-O2A-C1
21	b	821	CLA	CBA-CGA-O2A-C1
21	b	823	CLA	CBA-CGA-O2A-C1
21	f	802	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
23	6	301	A1L1F	C47-C45-O13-C26
29	a	855	LMG	C29-C28-O8-C9
23	1	304	A1L1F	O55-C54-O7-C8
21	1	309	CLA	O1D-CGD-O2D-CED
21	b	810	CLA	CBD-CGD-O2D-CED
21	7	306	CLA	O1A-CGA-O2A-C1
21	6	316	CLA	O1A-CGA-O2A-C1
21	9	309	CLA	CBA-CGA-O2A-C1
21	l	203	CLA	CBA-CGA-O2A-C1
21	a	813	CLA	C4-C3-C5-C6
21	a	825	CLA	C4-C3-C5-C6
21	b	828	CLA	C4-C3-C5-C6
21	a	841	CLA	CBD-CGD-O2D-CED
21	b	823	CLA	CBD-CGD-O2D-CED
21	b	827	CLA	CBD-CGD-O2D-CED
21	9	311	CLA	C2A-CAA-CBA-CGA
21	9	312	CLA	C2A-CAA-CBA-CGA
21	7	317	CLA	C2A-CAA-CBA-CGA
21	a	825	CLA	C2A-CAA-CBA-CGA
21	a	842	CLA	C2A-CAA-CBA-CGA
21	b	820	CLA	C2A-CAA-CBA-CGA
21	b	834	CLA	C2A-CAA-CBA-CGA
21	b	839	CLA	C2A-CAA-CBA-CGA
21	9	308	CLA	C3-C5-C6-C7
21	8	308	CLA	C3-C5-C6-C7
21	1	307	CLA	C3-C5-C6-C7
21	1	310	CLA	C3-C5-C6-C7
21	b	818	CLA	C3-C5-C6-C7
21	4	310	CLA	CBA-CGA-O2A-C1
21	1	305	CLA	CBA-CGA-O2A-C1
21	a	807	CLA	CBA-CGA-O2A-C1
21	b	805	CLA	CBA-CGA-O2A-C1
21	b	810	CLA	CBA-CGA-O2A-C1
21	b	818	CLA	CBA-CGA-O2A-C1
24	9	307	LHG	C24-C23-O8-C6
24	b	849	LHG	C24-C23-O8-C6
25	8	315	DGD	C2A-C1A-O1G-C1G
29	j	103	LMG	C29-C28-O8-C9
29	j	103	LMG	C12-C13-C14-C15
21	6	313	CLA	O1D-CGD-O2D-CED
21	7	317	CLA	CBD-CGD-O2D-CED
29	j	103	LMG	C4-C5-C6-O5

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Mol	Chain	Res	Type	Atoms
21	5	312	CLA	O1A-CGA-O2A-C1
21	1	305	CLA	O1A-CGA-O2A-C1
21	a	811	CLA	O1A-CGA-O2A-C1
21	a	812	CLA	O1A-CGA-O2A-C1
21	a	820	CLA	O1A-CGA-O2A-C1
21	b	805	CLA	O1A-CGA-O2A-C1
21	b	818	CLA	O1A-CGA-O2A-C1
29	j	103	LMG	O10-C28-O8-C9
20	9	301	A1L1G	C30-C31-C32-C33
20	9	301	A1L1G	C40-C41-C42-C44
20	7	302	A1L1G	C30-C31-C32-C33
23	8	304	A1L1F	C30-C31-C32-C33
23	6	301	A1L1F	C36-C37-C38-C39
21	4	308	CLA	CBD-CGD-O2D-CED
21	a	807	CLA	CBD-CGD-O2D-CED
21	a	810	CLA	CBD-CGD-O2D-CED
21	a	834	CLA	CBD-CGD-O2D-CED
21	a	835	CLA	CBD-CGD-O2D-CED
21	b	841	CLA	CBD-CGD-O2D-CED
21	9	316	CLA	O1D-CGD-O2D-CED
21	8	306	CLA	O1D-CGD-O2D-CED
24	9	307	LHG	O2-C2-C3-O3
24	a	845	LHG	O2-C2-C3-O3
24	m	101	LHG	O2-C2-C3-O3
21	7	306	CLA	CBA-CGA-O2A-C1
21	a	812	CLA	CBA-CGA-O2A-C1
21	b	840	CLA	CBA-CGA-O2A-C1
21	a	836	CLA	O1A-CGA-O2A-C1
21	b	823	CLA	O1A-CGA-O2A-C1
24	9	307	LHG	O10-C23-O8-C6
21	4	306	CLA	O1D-CGD-O2D-CED
21	9	312	CLA	CBA-CGA-O2A-C1
21	b	822	CLA	CBD-CGD-O2D-CED
21	b	840	CLA	O1A-CGA-O2A-C1
23	9	302	A1L1F	C47-C48-C49-C50
24	a	845	LHG	C12-C13-C14-C15
25	b	851	DGD	O6E-C5E-C6E-O5E
21	5	312	CLA	CBD-CGD-O2D-CED
21	5	310	CLA	C3-C5-C6-C7
21	a	807	CLA	C3-C5-C6-C7
21	a	835	CLA	C3-C5-C6-C7
21	5	312	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	6	309	CLA	CBA-CGA-O2A-C1
21	a	820	CLA	CBA-CGA-O2A-C1
24	a	845	LHG	C28-C29-C30-C31
21	a	807	CLA	O1A-CGA-O2A-C1
21	b	810	CLA	O1A-CGA-O2A-C1
21	8	313	CLA	CBA-CGA-O2A-C1
21	6	314	CLA	CBA-CGA-O2A-C1
21	1	312	CLA	C3-C5-C6-C7
21	9	312	CLA	O1A-CGA-O2A-C1
21	a	825	CLA	C2-C3-C5-C6
21	5	311	CLA	C2A-CAA-CBA-CGA
21	4	311	CLA	C2A-CAA-CBA-CGA
21	b	801	CLA	C2A-CAA-CBA-CGA
21	b	826	CLA	C2A-CAA-CBA-CGA
21	5	314	CLA	O1D-CGD-O2D-CED
29	a	855	LMG	O6-C5-C6-O5
29	j	103	LMG	O6-C5-C6-O5
21	6	309	CLA	O1A-CGA-O2A-C1
21	9	309	CLA	O1A-CGA-O2A-C1
21	7	316	CLA	CBA-CGA-O2A-C1
24	a	845	LHG	C23-C24-C25-C26
21	a	804	CLA	O1D-CGD-O2D-CED
21	b	805	CLA	O1D-CGD-O2D-CED
21	9	312	CLA	O1D-CGD-O2D-CED
21	9	314	CLA	O1D-CGD-O2D-CED
21	8	309	CLA	O1D-CGD-O2D-CED
21	7	310	CLA	O1D-CGD-O2D-CED
21	6	308	CLA	CBD-CGD-O2D-CED
24	9	307	LHG	C1-C2-C3-O3
24	a	845	LHG	C1-C2-C3-O3
21	b	836	CLA	O1D-CGD-O2D-CED
21	h	203	CLA	O1D-CGD-O2D-CED
21	5	309	CLA	CBA-CGA-O2A-C1
21	8	311	CLA	CBA-CGA-O2A-C1
21	a	809	CLA	CBA-CGA-O2A-C1
21	a	839	CLA	CBA-CGA-O2A-C1
21	a	856	CLA	CBA-CGA-O2A-C1
21	b	820	CLA	CBA-CGA-O2A-C1
21	b	826	CLA	CBA-CGA-O2A-C1
21	b	834	CLA	CBA-CGA-O2A-C1
21	h	201	CLA	CBA-CGA-O2A-C1
21	4	315	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	b	806	CLA	CBD-CGD-O2D-CED
21	h	201	CLA	CBD-CGD-O2D-CED
29	a	855	LMG	C4-C5-C6-O5
21	5	306	CLA	O1D-CGD-O2D-CED
20	5	304	A1L1G	C40-C41-C42-C44
23	8	304	A1L1F	C40-C41-C42-C44
21	a	810	CLA	C13-C15-C16-C17
21	a	856	CLA	O1A-CGA-O2A-C1
21	9	316	CLA	C8-C10-C11-C12
21	8	307	CLA	C5-C6-C7-C8
21	a	807	CLA	C5-C6-C7-C8
21	b	808	CLA	C5-C6-C7-C8
24	a	846	LHG	O2-C2-C3-O3
29	a	855	LMG	C28-C29-C30-C31
21	8	311	CLA	O1A-CGA-O2A-C1
21	a	809	CLA	O1A-CGA-O2A-C1
21	a	813	CLA	C2-C3-C5-C6
21	9	316	CLA	C11-C10-C8-C9
21	9	316	CLA	C11-C12-C13-C14
21	8	307	CLA	C11-C10-C8-C9
21	8	311	CLA	C6-C7-C8-C9
21	1	306	CLA	C6-C7-C8-C9
21	1	306	CLA	C11-C12-C13-C14
21	1	310	CLA	C14-C13-C15-C16
21	a	829	CLA	C11-C10-C8-C9
21	b	801	CLA	C11-C10-C8-C9
21	b	801	CLA	C14-C13-C15-C16
21	b	804	CLA	C11-C10-C8-C9
21	b	818	CLA	C11-C10-C8-C9
21	b	824	CLA	C6-C7-C8-C9
21	b	829	CLA	C14-C13-C15-C16
21	b	839	CLA	C6-C7-C8-C9
21	f	802	CLA	C11-C12-C13-C14
21	b	806	CLA	C15-C16-C17-C18
21	7	310	CLA	C2A-CAA-CBA-CGA
21	h	203	CLA	C2A-CAA-CBA-CGA
19	6	303	XAT	C7-C8-C9-C19
19	6	303	XAT	C11-C12-C13-C20
20	7	302	A1L1G	C32-C33-C34-C27
23	8	304	A1L1F	C28-C39-C40-C41
27	b	852	BCR	C7-C8-C9-C34
27	i	102	BCR	C7-C8-C9-C34

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Mol	Chain	Res	Type	Atoms
27	i	102	BCR	C37-C22-C23-C24
19	6	303	XAT	C7-C8-C9-C10
27	b	852	BCR	C7-C8-C9-C10
27	i	102	BCR	C7-C8-C9-C10
27	i	102	BCR	C21-C22-C23-C24
21	a	814	CLA	O1D-CGD-O2D-CED
25	b	851	DGD	C1A-C2A-C3A-C4A
21	b	820	CLA	O1A-CGA-O2A-C1
21	h	201	CLA	O1A-CGA-O2A-C1
21	a	809	CLA	C5-C6-C7-C8
21	b	801	CLA	C15-C16-C17-C18
23	6	301	A1L1F	O55-C54-O7-C8
23	1	304	A1L1F	C49-C50-C51-C52
21	9	313	CLA	CBA-CGA-O2A-C1
21	4	316	CLA	CBA-CGA-O2A-C1
21	b	839	CLA	CBA-CGA-O2A-C1
21	a	834	CLA	C15-C16-C17-C18
21	b	832	CLA	C13-C15-C16-C17
21	b	834	CLA	C13-C15-C16-C17
21	5	310	CLA	O1D-CGD-O2D-CED
21	5	309	CLA	O1A-CGA-O2A-C1
21	b	826	CLA	O1A-CGA-O2A-C1
21	8	310	CLA	CBD-CGD-O2D-CED
21	5	310	CLA	C13-C15-C16-C17
21	9	308	CLA	C5-C6-C7-C8
21	9	316	CLA	C10-C11-C12-C13
21	4	308	CLA	C10-C11-C12-C13
21	1	306	CLA	C8-C10-C11-C12
21	a	802	CLA	C5-C6-C7-C8
21	a	809	CLA	C8-C10-C11-C12
21	a	814	CLA	C13-C15-C16-C17
21	a	830	CLA	C13-C15-C16-C17
21	a	831	CLA	C5-C6-C7-C8
21	b	808	CLA	C8-C10-C11-C12
21	b	841	CLA	C13-C15-C16-C17
21	l	202	CLA	C10-C11-C12-C13
24	a	846	LHG	C7-C8-C9-C10
24	b	849	LHG	C7-C8-C9-C10
29	a	855	LMG	C10-C11-C12-C13
21	f	802	CLA	CBD-CGD-O2D-CED
21	1	306	CLA	C5-C6-C7-C8
21	b	813	CLA	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
21	b	829	CLA	C8-C10-C11-C12
21	b	823	CLA	C3-C5-C6-C7
21	6	310	CLA	O1D-CGD-O2D-CED
21	b	819	CLA	O1D-CGD-O2D-CED
21	a	807	CLA	C15-C16-C17-C18
21	a	841	CLA	C5-C6-C7-C8
21	b	814	CLA	C5-C6-C7-C8
21	b	837	CLA	C5-C6-C7-C8
23	1	304	A1L1F	C45-C47-C48-C49
21	a	852	CLA	CBD-CGD-O2D-CED
21	7	306	CLA	O2A-C1-C2-C3
21	7	309	CLA	O2A-C1-C2-C3
21	6	312	CLA	O1D-CGD-O2D-CED
21	a	837	CLA	O1D-CGD-O2D-CED
21	1	310	CLA	C11-C10-C8-C7
21	a	801	CLA	C12-C13-C15-C16
21	a	809	CLA	C12-C13-C15-C16
21	a	828	CLA	C12-C13-C15-C16
21	a	831	CLA	C11-C10-C8-C7
21	a	844	CLA	C12-C13-C15-C16
21	b	807	CLA	C12-C13-C15-C16
21	a	801	CLA	C3-C5-C6-C7
21	a	839	CLA	O1A-CGA-O2A-C1
21	b	834	CLA	O1A-CGA-O2A-C1
23	6	301	A1L1F	C34-C35-C36-C37
21	b	827	CLA	CBA-CGA-O2A-C1
21	a	830	CLA	C2A-CAA-CBA-CGA
21	5	307	CLA	O1D-CGD-O2D-CED
21	7	308	CLA	O1D-CGD-O2D-CED
21	9	308	CLA	C8-C10-C11-C12
21	1	306	CLA	C15-C16-C17-C18
21	5	306	CLA	CBA-CGA-O2A-C1
21	a	826	CLA	CBD-CGD-O2D-CED
21	a	841	CLA	C15-C16-C17-C18
21	a	818	CLA	O1D-CGD-O2D-CED
20	5	304	A1L1G	C39-C40-C41-C42
20	9	306	A1L1G	C39-C40-C41-C42
20	7	302	A1L1G	C31-C32-C33-C34
21	6	309	CLA	C10-C11-C12-C13
21	a	801	CLA	C8-C10-C11-C12
21	a	828	CLA	C13-C15-C16-C17
21	a	828	CLA	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
21	a	831	CLA	C15-C16-C17-C18
21	b	841	CLA	C10-C11-C12-C13
21	f	802	CLA	C13-C15-C16-C17
21	h	203	CLA	C5-C6-C7-C8
21	4	307	CLA	O1D-CGD-O2D-CED
21	7	316	CLA	O1A-CGA-O2A-C1
21	7	308	CLA	C10-C11-C12-C13
21	b	837	CLA	C8-C10-C11-C12
26	b	842	PQN	C23-C25-C26-C27
21	a	852	CLA	C8-C10-C11-C12
21	b	801	CLA	C13-C15-C16-C17
21	b	827	CLA	C13-C15-C16-C17
21	f	802	CLA	C5-C6-C7-C8
21	l	202	CLA	C8-C10-C11-C12
24	a	845	LHG	C3-O3-P-O6
24	b	849	LHG	C3-O3-P-O6
21	7	313	CLA	C3-C5-C6-C7
21	4	317	CLA	CBA-CGA-O2A-C1
21	a	816	CLA	CBA-CGA-O2A-C1
21	a	852	CLA	CBA-CGA-O2A-C1
21	b	831	CLA	CBA-CGA-O2A-C1
21	a	839	CLA	C13-C15-C16-C17
21	b	801	CLA	C8-C10-C11-C12
21	b	810	CLA	O1D-CGD-O2D-CED
21	7	308	CLA	C4-C3-C5-C6
21	1	308	CLA	C4-C3-C5-C6
25	b	851	DGD	C4E-C5E-C6E-O5E
21	8	313	CLA	O1A-CGA-O2A-C1
21	6	314	CLA	O1A-CGA-O2A-C1
21	7	316	CLA	C2C-C3C-CAC-CBC
21	5	307	CLA	C2A-CAA-CBA-CGA
21	1	314	CLA	C2A-CAA-CBA-CGA
21	b	828	CLA	C2A-CAA-CBA-CGA
21	a	801	CLA	C16-C17-C18-C20
21	b	810	CLA	C16-C17-C18-C20
21	4	313	CLA	C3-C5-C6-C7
21	a	814	CLA	CBA-CGA-O2A-C1
21	a	838	CLA	CBA-CGA-O2A-C1
20	9	306	A1L1G	C40-C41-C42-C44
25	4	318	DGD	C3B-C4B-C5B-C6B
25	b	851	DGD	C9B-CAB-CBB-CCB
21	a	841	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	a	836	CLA	CBD-CGD-O2D-CED
22	1	315	SQD	C8-C7-O47-C45
21	9	310	CLA	CBA-CGA-O2A-C1
21	a	824	CLA	CBA-CGA-O2A-C1
21	b	824	CLA	C5-C6-C7-C8
21	b	829	CLA	C10-C11-C12-C13
21	b	840	CLA	C5-C6-C7-C8
20	9	301	A1L1G	C41-C42-C44-C43
20	9	306	A1L1G	C41-C42-C44-C43
24	9	307	LHG	C34-C35-C36-C37
24	a	845	LHG	C11-C10-C9-C8
21	b	823	CLA	O1D-CGD-O2D-CED
21	b	834	CLA	C16-C17-C18-C19
21	b	841	CLA	C16-C17-C18-C20
21	a	833	CLA	CBA-CGA-O2A-C1
21	a	844	CLA	CBA-CGA-O2A-C1
22	1	315	SQD	C24-C23-O48-C46
24	9	307	LHG	C31-C32-C33-C34
24	a	845	LHG	C27-C28-C29-C30
22	1	315	SQD	O49-C7-O47-C45
21	a	856	CLA	C5-C6-C7-C8
24	9	307	LHG	C28-C29-C30-C31
24	a	845	LHG	C13-C14-C15-C16
21	b	827	CLA	O1D-CGD-O2D-CED
21	b	839	CLA	O1A-CGA-O2A-C1
24	9	307	LHG	C27-C28-C29-C30
21	a	834	CLA	O1D-CGD-O2D-CED
21	a	835	CLA	O1D-CGD-O2D-CED
20	5	304	A1L1G	C29-C30-C31-C32
20	9	301	A1L1G	C29-C30-C31-C32
20	9	306	A1L1G	C29-C30-C31-C32
24	m	101	LHG	C9-C10-C11-C12
23	9	302	A1L1F	C45-C47-C48-C49
21	7	317	CLA	O1D-CGD-O2D-CED
20	9	301	A1L1G	C41-C42-C44-C2
20	9	306	A1L1G	C41-C42-C44-C2
21	4	317	CLA	O1A-CGA-O2A-C1
21	a	816	CLA	O1A-CGA-O2A-C1
21	a	852	CLA	O1A-CGA-O2A-C1
21	4	310	CLA	C4-C3-C5-C6
21	b	840	CLA	C4-C3-C5-C6
21	5	316	CLA	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
21	1	308	CLA	C2-C3-C5-C6
21	b	806	CLA	C2-C3-C5-C6
21	b	828	CLA	C2-C3-C5-C6
20	9	306	A1L1G	C14-C29-C30-C31
21	a	828	CLA	C14-C13-C15-C16
21	a	839	CLA	C6-C7-C8-C9
21	a	840	CLA	C14-C13-C15-C16
21	b	825	CLA	C11-C10-C8-C9
21	b	841	CLA	O1D-CGD-O2D-CED
24	m	101	LHG	C11-C12-C13-C14
25	4	318	DGD	C2B-C3B-C4B-C5B
21	a	814	CLA	C10-C11-C12-C13
21	a	814	CLA	C2A-CAA-CBA-CGA
21	b	831	CLA	C2A-CAA-CBA-CGA
21	a	814	CLA	O1A-CGA-O2A-C1
21	b	827	CLA	O1A-CGA-O2A-C1
19	9	303	XAT	C7-C8-C9-C19
20	9	301	A1L1G	C32-C33-C34-C27
27	a	850	BCR	C37-C22-C23-C24
27	f	801	BCR	C37-C22-C23-C24
25	b	851	DGD	C4A-C5A-C6A-C7A
25	b	851	DGD	C3B-C4B-C5B-C6B
19	9	303	XAT	C7-C8-C9-C10
19	8	301	XAT	C7-C8-C9-C10
19	7	304	XAT	C7-C8-C9-C10
20	9	301	A1L1G	C32-C33-C34-C35
23	8	304	A1L1F	C38-C39-C40-C41
27	a	850	BCR	C21-C22-C23-C24
27	f	801	BCR	C21-C22-C23-C24
21	b	827	CLA	C8-C10-C11-C12
26	a	843	PQN	C25-C26-C27-C28
24	m	101	LHG	C28-C29-C30-C31
23	8	304	A1L1F	C45-C47-C48-C49
21	4	308	CLA	C16-C17-C18-C20
21	b	810	CLA	C16-C17-C18-C19
21	b	811	CLA	C6-C7-C8-C9
21	f	802	CLA	C16-C17-C18-C19
21	f	802	CLA	C16-C17-C18-C20
21	a	827	CLA	C8-C10-C11-C12
21	a	841	CLA	C8-C10-C11-C12
21	b	808	CLA	C10-C11-C12-C13
21	b	836	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
21	h	201	CLA	C10-C11-C12-C13
21	6	316	CLA	CBD-CGD-O2D-CED
22	1	315	SQD	C11-C10-C9-C8
24	m	101	LHG	C14-C15-C16-C17
21	a	814	CLA	C5-C6-C7-C8
21	b	805	CLA	C15-C16-C17-C18
23	9	302	A1L1F	C48-C49-C50-C51
23	1	304	A1L1F	C47-C48-C49-C50
23	h	202	A1L1F	C47-C48-C49-C50
21	4	308	CLA	O1D-CGD-O2D-CED
21	a	807	CLA	O1D-CGD-O2D-CED
21	9	310	CLA	C3A-C2A-CAA-CBA
21	9	313	CLA	C3A-C2A-CAA-CBA
21	4	310	CLA	C3A-C2A-CAA-CBA
21	7	311	CLA	C3A-C2A-CAA-CBA
21	a	807	CLA	C3A-C2A-CAA-CBA
21	a	838	CLA	C3A-C2A-CAA-CBA
21	a	856	CLA	C3A-C2A-CAA-CBA
21	b	809	CLA	C3A-C2A-CAA-CBA
21	b	812	CLA	C3A-C2A-CAA-CBA
21	b	814	CLA	C3A-C2A-CAA-CBA
21	f	803	CLA	C3A-C2A-CAA-CBA
21	h	201	CLA	C3A-C2A-CAA-CBA
21	a	810	CLA	O1D-CGD-O2D-CED
21	b	831	CLA	O1A-CGA-O2A-C1
21	b	801	CLA	C16-C17-C18-C20
21	b	811	CLA	C6-C7-C8-C10
25	b	851	DGD	C2B-C3B-C4B-C5B
25	b	851	DGD	C4B-C5B-C6B-C7B
20	9	301	A1L1G	C35-C36-C37-C38
27	m	102	BCR	C14-C15-C16-C17
21	b	816	CLA	CBA-CGA-O2A-C1
21	4	310	CLA	C2-C3-C5-C6
21	a	828	CLA	C2-C3-C5-C6
21	b	840	CLA	C2-C3-C5-C6
21	b	833	CLA	CBD-CGD-O2D-CED
24	a	845	LHG	O1-C1-C2-O2
24	a	846	LHG	O1-C1-C2-O2
24	b	849	LHG	O1-C1-C2-O2
21	b	834	CLA	C16-C17-C18-C20
21	b	807	CLA	C5-C6-C7-C8
21	9	308	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	a	833	CLA	O1A-CGA-O2A-C1
21	a	838	CLA	O1A-CGA-O2A-C1
21	a	844	CLA	O1A-CGA-O2A-C1
22	1	315	SQD	O10-C23-O48-C46
21	a	818	CLA	C2-C1-O2A-CGA
21	9	313	CLA	O1A-CGA-O2A-C1
21	b	807	CLA	C3-C5-C6-C7
27	a	850	BCR	C23-C24-C25-C30
27	b	844	BCR	C1-C6-C7-C8
27	b	844	BCR	C5-C6-C7-C8
27	b	853	BCR	C1-C6-C7-C8
27	i	102	BCR	C23-C24-C25-C26
27	i	102	BCR	C23-C24-C25-C30
27	m	102	BCR	C5-C6-C7-C8
24	9	307	LHG	C30-C31-C32-C33
21	a	823	CLA	CBA-CGA-O2A-C1
21	b	806	CLA	CBA-CGA-O2A-C1
21	b	836	CLA	CBA-CGA-O2A-C1
21	a	809	CLA	C13-C15-C16-C17
21	b	829	CLA	C15-C16-C17-C18
21	b	833	CLA	C8-C10-C11-C12
21	b	839	CLA	C15-C16-C17-C18
24	a	845	LHG	C26-C27-C28-C29
21	4	316	CLA	O1A-CGA-O2A-C1
21	a	840	CLA	C13-C15-C16-C17
21	b	804	CLA	C13-C15-C16-C17
21	1	310	CLA	C4-C3-C5-C6
21	a	807	CLA	C4-C3-C5-C6
21	a	828	CLA	C4-C3-C5-C6
21	1	305	CLA	C11-C10-C8-C7
21	1	308	CLA	C11-C10-C8-C7
21	a	801	CLA	C11-C12-C13-C15
21	a	826	CLA	C11-C10-C8-C7
21	a	829	CLA	C11-C10-C8-C7
21	a	839	CLA	C6-C7-C8-C10
21	a	840	CLA	C12-C13-C15-C16
21	a	852	CLA	C11-C12-C13-C15
21	b	806	CLA	C11-C12-C13-C15
21	b	809	CLA	C11-C10-C8-C7
21	b	810	CLA	C2-C3-C5-C6
21	b	838	CLA	C11-C12-C13-C15
21	9	308	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	b	803	CLA	C2C-C3C-CAC-CBC
21	b	809	CLA	C5-C6-C7-C8
23	6	304	A1L1F	C4-C8-O7-C54
21	a	825	CLA	CBA-CGA-O2A-C1
21	b	824	CLA	CBA-CGA-O2A-C1
21	4	308	CLA	C15-C16-C17-C18
21	b	832	CLA	C15-C16-C17-C18
25	b	851	DGD	CAB-CBB-CCB-CDB
21	a	811	CLA	C11-C10-C8-C7
22	1	315	SQD	C7-C8-C9-C10
21	a	806	CLA	C13-C15-C16-C17
25	b	851	DGD	C6A-C7A-C8A-C9A
21	4	307	CLA	C3-C5-C6-C7
21	5	312	CLA	O1D-CGD-O2D-CED
21	b	816	CLA	O1A-CGA-O2A-C1
25	4	318	DGD	O6D-C1D-O3G-C3G
21	8	307	CLA	C15-C16-C17-C18
25	8	315	DGD	C2B-C3B-C4B-C5B
24	a	846	LHG	C8-C7-O7-C5
25	b	851	DGD	C2B-C1B-O2G-C2G
24	b	849	LHG	O6-C4-C5-O7
20	9	306	A1L1G	C31-C32-C33-C34
21	9	313	CLA	CBD-CGD-O2D-CED
21	a	808	CLA	CBD-CGD-O2D-CED
24	a	846	LHG	O9-C7-O7-C5
25	4	318	DGD	O1G-C1G-C2G-O2G
21	b	841	CLA	C16-C17-C18-C19
21	b	808	CLA	C15-C16-C17-C18
21	b	806	CLA	C4-C3-C5-C6
21	b	810	CLA	C4-C3-C5-C6
21	8	310	CLA	CBA-CGA-O2A-C1
21	7	308	CLA	C2-C3-C5-C6
21	a	804	CLA	C2-C3-C5-C6
21	b	802	CLA	C2-C3-C5-C6
21	4	308	CLA	C11-C12-C13-C14
21	1	308	CLA	C11-C10-C8-C9
21	1	310	CLA	C11-C10-C8-C9
21	a	801	CLA	C11-C12-C13-C14
21	a	807	CLA	C14-C13-C15-C16
21	a	814	CLA	C11-C10-C8-C9
21	a	826	CLA	C11-C10-C8-C9
21	a	831	CLA	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
21	a	852	CLA	C11-C12-C13-C14
21	b	806	CLA	C11-C12-C13-C14
21	b	806	CLA	C14-C13-C15-C16
21	b	809	CLA	C11-C10-C8-C9
21	b	818	CLA	C6-C7-C8-C9
21	b	822	CLA	C6-C7-C8-C9
21	b	824	CLA	C11-C10-C8-C9
21	b	825	CLA	C6-C7-C8-C9
21	b	838	CLA	C11-C12-C13-C14
21	8	308	CLA	C2A-CAA-CBA-CGA
21	a	806	CLA	C2A-CAA-CBA-CGA
21	a	810	CLA	C2A-CAA-CBA-CGA
21	b	832	CLA	C2A-CAA-CBA-CGA
19	5	302	XAT	C7-C8-C9-C19
19	7	304	XAT	C7-C8-C9-C19
20	9	306	A1L1G	C32-C33-C34-C27
23	h	202	A1L1F	C28-C39-C40-C41
21	4	308	CLA	C13-C15-C16-C17
21	b	809	CLA	C10-C11-C12-C13
21	7	316	CLA	C4C-C3C-CAC-CBC
21	a	823	CLA	O1A-CGA-O2A-C1
21	b	806	CLA	O1A-CGA-O2A-C1
21	5	307	CLA	C1A-C2A-CAA-CBA
21	9	310	CLA	C1A-C2A-CAA-CBA
21	9	313	CLA	C1A-C2A-CAA-CBA
21	4	313	CLA	C1A-C2A-CAA-CBA
21	7	306	CLA	C1A-C2A-CAA-CBA
21	7	311	CLA	C1A-C2A-CAA-CBA
21	7	313	CLA	C1A-C2A-CAA-CBA
21	1	306	CLA	C1A-C2A-CAA-CBA
21	a	807	CLA	C1A-C2A-CAA-CBA
21	a	817	CLA	C1A-C2A-CAA-CBA
21	a	819	CLA	C1A-C2A-CAA-CBA
21	a	825	CLA	C1A-C2A-CAA-CBA
21	b	816	CLA	C1A-C2A-CAA-CBA
21	b	817	CLA	C1A-C2A-CAA-CBA
21	b	838	CLA	C1A-C2A-CAA-CBA
21	f	803	CLA	C1A-C2A-CAA-CBA
21	a	801	CLA	C16-C17-C18-C19
21	b	801	CLA	C16-C17-C18-C19
24	m	101	LHG	C29-C30-C31-C32
23	h	202	A1L1F	C40-C41-C42-C44

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Mol	Chain	Res	Type	Atoms
21	b	822	CLA	O1D-CGD-O2D-CED
21	5	306	CLA	O1A-CGA-O2A-C1
21	1	305	CLA	C8-C10-C11-C12
21	a	844	CLA	C10-C11-C12-C13
24	m	101	LHG	C3-O3-P-O6
21	7	313	CLA	C5-C6-C7-C8
23	9	302	A1L1F	C49-C50-C51-C52
21	b	813	CLA	C3-C5-C6-C7
21	b	806	CLA	O1D-CGD-O2D-CED
21	5	316	CLA	C4C-C3C-CAC-CBC
21	b	836	CLA	O1A-CGA-O2A-C1
21	b	829	CLA	C13-C15-C16-C17
24	a	845	LHG	O6-C4-C5-C6
25	b	851	DGD	CBB-CCB-CDB-CEB
21	4	315	CLA	O1D-CGD-O2D-CED
21	a	812	CLA	C10-C11-C12-C13
21	a	806	CLA	C16-C17-C18-C19
24	m	101	LHG	C12-C13-C14-C15
21	b	835	CLA	C4-C3-C5-C6
21	b	836	CLA	C2C-C3C-CAC-CBC
21	b	824	CLA	O1A-CGA-O2A-C1
21	a	822	CLA	C2A-CAA-CBA-CGA
21	a	820	CLA	C16-C17-C18-C20
21	b	814	CLA	C6-C7-C8-C10
21	6	308	CLA	O1D-CGD-O2D-CED
21	h	201	CLA	O1D-CGD-O2D-CED
21	a	839	CLA	C3-C5-C6-C7
21	b	801	CLA	C3-C5-C6-C7
24	a	845	LHG	C4-C5-C6-O8
24	b	849	LHG	C4-C5-C6-O8
25	4	318	DGD	O1G-C1G-C2G-C3G
21	a	820	CLA	C8-C10-C11-C12
21	a	829	CLA	C10-C11-C12-C13
23	1	304	A1L1F	C50-C51-C52-C53
24	m	101	LHG	C11-C10-C9-C8
25	b	851	DGD	C3A-C4A-C5A-C6A
29	j	103	LMG	C13-C14-C15-C16
21	8	310	CLA	O1D-CGD-O2D-CED
23	6	301	A1L1F	C50-C51-C52-C53
21	5	311	CLA	CAA-CBA-CGA-O2A
23	6	304	A1L1F	C45-C47-C48-C49
23	h	202	A1L1F	C4-C8-O7-C54

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Mol	Chain	Res	Type	Atoms
24	b	849	LHG	C8-C7-O7-C5
26	a	843	PQN	C23-C25-C26-C27
21	a	804	CLA	C4-C3-C5-C6
21	a	820	CLA	C4-C3-C5-C6
21	b	802	CLA	C4-C3-C5-C6
21	a	844	CLA	C16-C17-C18-C19
21	8	307	CLA	CBA-CGA-O2A-C1
23	h	202	A1L1F	C48-C49-C50-C51
21	1	311	CLA	CBD-CGD-O2D-CED
21	1	308	CLA	C13-C15-C16-C17
21	a	856	CLA	C10-C11-C12-C13
21	b	840	CLA	C13-C15-C16-C17
29	a	855	LMG	C14-C15-C16-C17
21	a	825	CLA	O1A-CGA-O2A-C1
21	9	314	CLA	C3-C5-C6-C7
21	a	852	CLA	O1D-CGD-O2D-CED
21	f	802	CLA	O1D-CGD-O2D-CED
21	a	829	CLA	C8-C10-C11-C12
25	b	851	DGD	CCB-CDB-CEB-CFB
21	a	835	CLA	CBA-CGA-O2A-C1
21	1	310	CLA	C5-C6-C7-C8
21	b	837	CLA	C2C-C3C-CAC-CBC
21	8	314	CLA	CBD-CGD-O2D-CED
24	a	845	LHG	C7-C8-C9-C10
21	1	308	CLA	C15-C16-C17-C18
21	a	810	CLA	C5-C6-C7-C8
21	a	826	CLA	C15-C16-C17-C18
25	4	318	DGD	C2D-C1D-O3G-C3G
23	6	301	A1L1F	C47-C48-C49-C50
21	b	803	CLA	C15-C16-C17-C18
21	b	814	CLA	C6-C7-C8-C9
21	b	818	CLA	C11-C12-C13-C14
21	a	801	CLA	C4-C3-C5-C6
21	b	813	CLA	C4-C3-C5-C6
21	4	308	CLA	C12-C13-C15-C16
21	6	309	CLA	C11-C10-C8-C7
21	1	306	CLA	C6-C7-C8-C10
21	a	807	CLA	C12-C13-C15-C16
21	a	809	CLA	C6-C7-C8-C10
21	a	810	CLA	C12-C13-C15-C16
21	a	812	CLA	C6-C7-C8-C10
21	a	820	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
21	a	822	CLA	C6-C7-C8-C10
21	a	830	CLA	C12-C13-C15-C16
21	a	841	CLA	C11-C10-C8-C7
21	a	844	CLA	C11-C12-C13-C15
21	b	802	CLA	C12-C13-C15-C16
21	b	806	CLA	C11-C10-C8-C7
21	b	806	CLA	C12-C13-C15-C16
21	b	810	CLA	C11-C12-C13-C15
21	b	813	CLA	C2-C3-C5-C6
21	b	818	CLA	C6-C7-C8-C10
21	b	822	CLA	C6-C7-C8-C10
21	b	824	CLA	C11-C10-C8-C7
21	b	825	CLA	C6-C7-C8-C10
21	b	827	CLA	C6-C7-C8-C10
21	b	828	CLA	C12-C13-C15-C16
21	b	834	CLA	C11-C12-C13-C15
21	b	839	CLA	C6-C7-C8-C10
21	f	802	CLA	C11-C12-C13-C15
21	4	317	CLA	C3-C5-C6-C7
21	7	308	CLA	C11-C10-C8-C9
21	a	807	CLA	C11-C12-C13-C14
21	a	809	CLA	C14-C13-C15-C16
21	a	810	CLA	C14-C13-C15-C16
21	a	822	CLA	C6-C7-C8-C9
21	a	827	CLA	C11-C10-C8-C9
21	a	830	CLA	C14-C13-C15-C16
21	a	835	CLA	C6-C7-C8-C9
21	a	841	CLA	C11-C10-C8-C9
21	a	842	CLA	C11-C12-C13-C14
21	a	844	CLA	C11-C12-C13-C14
21	a	844	CLA	C14-C13-C15-C16
21	b	801	CLA	C11-C12-C13-C14
21	b	802	CLA	C6-C7-C8-C9
21	b	802	CLA	C11-C10-C8-C9
21	b	807	CLA	C11-C10-C8-C9
21	b	810	CLA	C11-C12-C13-C14
21	b	828	CLA	C11-C12-C13-C14
21	b	833	CLA	C6-C7-C8-C9
21	b	837	CLA	C14-C13-C15-C16
24	9	307	LHG	C25-C26-C27-C28
21	4	307	CLA	CBA-CGA-O2A-C1
21	a	841	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	a	812	CLA	C8-C10-C11-C12
19	7	303	XAT	C7-C8-C9-C19
21	a	844	CLA	C16-C17-C18-C20
19	4	305	XAT	C27-C28-C29-C30
24	b	849	LHG	C9-C10-C11-C12
21	a	826	CLA	O1D-CGD-O2D-CED
21	a	836	CLA	O1D-CGD-O2D-CED
23	h	202	A1L1F	C3-C8-O7-C54
21	b	827	CLA	C15-C16-C17-C18
21	9	310	CLA	O1A-CGA-O2A-C1
21	a	824	CLA	O1A-CGA-O2A-C1
21	8	307	CLA	O1A-CGA-O2A-C1
25	b	851	DGD	C2A-C1A-O1G-C1G
21	b	804	CLA	C16-C17-C18-C20
24	b	849	LHG	O6-C4-C5-C6
21	b	834	CLA	C3-C5-C6-C7
21	h	203	CLA	C3-C5-C6-C7
21	a	844	CLA	C15-C16-C17-C18
21	b	833	CLA	C5-C6-C7-C8
21	a	852	CLA	C4-C3-C5-C6
21	b	839	CLA	C4-C3-C5-C6
21	a	801	CLA	C2-C3-C5-C6
21	a	807	CLA	C2-C3-C5-C6
21	b	806	CLA	C10-C11-C12-C13
25	b	851	DGD	O1B-C1B-O2G-C2G
21	a	811	CLA	C11-C10-C8-C9
21	b	832	CLA	C3-C5-C6-C7
21	a	805	CLA	C6-C7-C8-C9
21	1	306	CLA	CBA-CGA-O2A-C1
21	1	310	CLA	CBA-CGA-O2A-C1
21	b	828	CLA	CBA-CGA-O2A-C1
24	m	101	LHG	C2-C3-O3-P
21	4	311	CLA	C3A-C2A-CAA-CBA
21	a	829	CLA	C3A-C2A-CAA-CBA
21	b	810	CLA	C3A-C2A-CAA-CBA
21	b	833	CLA	C3A-C2A-CAA-CBA
21	b	812	CLA	C5-C6-C7-C8
24	a	845	LHG	C34-C35-C36-C37
21	a	805	CLA	C6-C7-C8-C10
21	a	831	CLA	CBA-CGA-O2A-C1
21	b	811	CLA	CBA-CGA-O2A-C1
21	a	830	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
21	b	801	CLA	C5-C6-C7-C8
22	1	315	SQD	O6-C44-C45-C46
24	a	846	LHG	C4-C5-C6-O8
23	6	301	A1L1F	C48-C49-C50-C51
21	b	836	CLA	C3-C5-C6-C7
24	9	307	LHG	C33-C34-C35-C36
25	b	851	DGD	C7A-C8A-C9A-CAA
21	a	840	CLA	C4-C3-C5-C6
21	b	818	CLA	C11-C12-C13-C15
21	6	316	CLA	O1D-CGD-O2D-CED
21	a	827	CLA	C3-C5-C6-C7
21	7	314	CLA	C2A-CAA-CBA-CGA
21	a	809	CLA	C2A-CAA-CBA-CGA
21	a	819	CLA	C2A-CAA-CBA-CGA
21	a	803	CLA	C15-C16-C17-C18
29	j	103	LMG	C28-C29-C30-C31
21	9	314	CLA	CBA-CGA-O2A-C1
21	a	835	CLA	O1A-CGA-O2A-C1
21	a	820	CLA	C16-C17-C18-C19
21	4	317	CLA	C5-C6-C7-C8
21	b	822	CLA	C10-C11-C12-C13
21	4	307	CLA	O1A-CGA-O2A-C1
21	a	806	CLA	C16-C17-C18-C20
21	b	827	CLA	C16-C17-C18-C20
21	b	805	CLA	C10-C11-C12-C13
21	a	806	CLA	CBD-CGD-O2D-CED
20	9	301	A1L1G	O13-C26-C30-C31
24	b	849	LHG	O9-C7-O7-C5
21	7	308	CLA	C2-C1-O2A-CGA
23	1	304	A1L1F	C14-C29-C30-C31
21	b	802	CLA	C13-C15-C16-C17
21	9	308	CLA	C11-C10-C8-C9
21	4	310	CLA	C11-C10-C8-C9
21	1	306	CLA	C11-C10-C8-C9
21	1	310	CLA	C6-C7-C8-C9
21	a	814	CLA	C11-C12-C13-C14
21	a	840	CLA	C11-C10-C8-C9
21	a	844	CLA	C11-C10-C8-C9
21	a	852	CLA	C6-C7-C8-C9
21	a	852	CLA	C11-C10-C8-C9
21	b	803	CLA	C6-C7-C8-C9
21	b	805	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
21	b	809	CLA	C6-C7-C8-C9
21	b	824	CLA	C11-C12-C13-C14
21	b	838	CLA	C14-C13-C15-C16
21	b	839	CLA	C11-C12-C13-C14
21	5	310	CLA	C5-C6-C7-C8
21	4	308	CLA	C16-C17-C18-C19
21	1	310	CLA	C16-C17-C18-C20
27	b	848	BCR	C5-C6-C7-C8
27	b	852	BCR	C23-C24-C25-C26
27	b	852	BCR	C23-C24-C25-C30
27	b	853	BCR	C5-C6-C7-C8
27	f	804	BCR	C23-C24-C25-C26
27	i	102	BCR	C1-C6-C7-C8
27	i	102	BCR	C5-C6-C7-C8
21	b	809	CLA	CAA-CBA-CGA-O2A
19	4	305	XAT	C27-C28-C29-C39
19	7	303	XAT	C7-C8-C9-C10
20	9	306	A1L1G	C26-C30-C31-C32
20	7	302	A1L1G	C32-C33-C34-C35
21	j	101	CLA	C1A-C2A-CAA-CBA
21	4	310	CLA	C15-C16-C17-C18
21	a	856	CLA	C8-C10-C11-C12
21	9	308	CLA	C16-C17-C18-C20
21	1	306	CLA	C16-C17-C18-C20
21	9	313	CLA	O1D-CGD-O2D-CED
21	b	806	CLA	C5-C6-C7-C8
21	b	828	CLA	C5-C6-C7-C8
24	a	846	LHG	O6-C4-C5-C6
24	m	101	LHG	O6-C4-C5-C6
24	9	307	LHG	C32-C33-C34-C35
29	a	855	LMG	C12-C13-C14-C15
21	9	308	CLA	C11-C12-C13-C15
21	9	316	CLA	C11-C10-C8-C7
21	8	307	CLA	C11-C10-C8-C7
21	8	309	CLA	C11-C10-C8-C7
21	4	310	CLA	C11-C10-C8-C7
21	1	308	CLA	C11-C12-C13-C15
21	a	801	CLA	C6-C7-C8-C10
21	a	802	CLA	C6-C7-C8-C10
21	a	807	CLA	C11-C12-C13-C15
21	a	814	CLA	C6-C7-C8-C10
21	a	814	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
21	a	820	CLA	C11-C12-C13-C15
21	a	827	CLA	C11-C10-C8-C7
21	a	829	CLA	C6-C7-C8-C10
21	a	835	CLA	C6-C7-C8-C10
21	a	840	CLA	C2-C3-C5-C6
21	a	842	CLA	C11-C12-C13-C15
21	a	844	CLA	C11-C10-C8-C7
21	b	801	CLA	C11-C12-C13-C15
21	b	802	CLA	C6-C7-C8-C10
21	b	802	CLA	C11-C10-C8-C7
21	b	807	CLA	C11-C10-C8-C7
21	b	809	CLA	C6-C7-C8-C10
21	b	813	CLA	C11-C10-C8-C7
21	b	824	CLA	C6-C7-C8-C10
21	b	829	CLA	C12-C13-C15-C16
21	b	833	CLA	C6-C7-C8-C10
21	b	837	CLA	C12-C13-C15-C16
21	b	838	CLA	C12-C13-C15-C16
21	b	839	CLA	C12-C13-C15-C16
21	a	842	CLA	C8-C10-C11-C12
20	9	306	A1L1G	C30-C31-C32-C33
20	7	302	A1L1G	C34-C35-C36-C37
21	b	804	CLA	C16-C17-C18-C19
22	1	315	SQD	C9-C10-C11-C12
21	a	808	CLA	O1D-CGD-O2D-CED
21	a	827	CLA	C5-C6-C7-C8
21	4	313	CLA	CBA-CGA-O2A-C1
21	a	841	CLA	C13-C15-C16-C17
20	7	302	A1L1G	C45-C2-C44-C43
21	5	315	CLA	CAD-CBD-CGD-O2D
21	9	309	CLA	CAD-CBD-CGD-O2D
21	8	313	CLA	CAD-CBD-CGD-O2D
21	6	315	CLA	CAD-CBD-CGD-O2D
21	7	306	CLA	CAD-CBD-CGD-O2D
21	a	808	CLA	CAD-CBD-CGD-O2D
21	a	810	CLA	CAD-CBD-CGD-O2D
21	a	815	CLA	CAD-CBD-CGD-O2D
21	a	821	CLA	CAD-CBD-CGD-O2D
21	a	824	CLA	CAD-CBD-CGD-O2D
21	a	832	CLA	CAD-CBD-CGD-O2D
21	a	842	CLA	CAD-CBD-CGD-O2D
21	a	852	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
21	a	856	CLA	CAD-CBD-CGD-O2D
21	b	805	CLA	CAD-CBD-CGD-O2D
21	b	811	CLA	CAD-CBD-CGD-O2D
21	b	825	CLA	CAD-CBD-CGD-O2D
21	b	830	CLA	CAD-CBD-CGD-O2D
21	b	834	CLA	CAD-CBD-CGD-O2D
21	b	839	CLA	CAD-CBD-CGD-O2D
21	b	840	CLA	CAD-CBD-CGD-O2D
23	8	304	A1L1F	C57-C2-C44-C43
29	a	855	LMG	C9-C8-O7-C10
21	a	841	CLA	O1A-CGA-O2A-C1
21	9	308	CLA	C16-C17-C18-C19
21	b	839	CLA	C13-C15-C16-C17
24	a	845	LHG	C9-C10-C11-C12
25	8	315	DGD	C1G-C2G-C3G-O3G
21	7	313	CLA	CBD-CGD-O2D-CED
21	b	811	CLA	O1A-CGA-O2A-C1
25	b	851	DGD	O1A-C1A-O1G-C1G
21	6	310	CLA	C2A-CAA-CBA-CGA
21	b	809	CLA	C16-C17-C18-C19
21	8	308	CLA	CHA-CBD-CGD-O1D
21	8	308	CLA	CHA-CBD-CGD-O2D
21	8	309	CLA	CHA-CBD-CGD-O1D
21	8	309	CLA	CHA-CBD-CGD-O2D
21	8	314	CLA	CHA-CBD-CGD-O1D
21	8	314	CLA	CHA-CBD-CGD-O2D
21	4	307	CLA	CHA-CBD-CGD-O1D
21	6	309	CLA	CHA-CBD-CGD-O1D
21	6	309	CLA	CHA-CBD-CGD-O2D
21	7	308	CLA	CHA-CBD-CGD-O1D
21	7	308	CLA	CHA-CBD-CGD-O2D
21	7	315	CLA	CHA-CBD-CGD-O2D
21	7	316	CLA	CHA-CBD-CGD-O1D
21	7	316	CLA	CHA-CBD-CGD-O2D
21	a	809	CLA	CHA-CBD-CGD-O1D
21	a	809	CLA	CHA-CBD-CGD-O2D
21	a	814	CLA	CHA-CBD-CGD-O1D
21	a	814	CLA	CHA-CBD-CGD-O2D
21	a	823	CLA	CHA-CBD-CGD-O1D
21	a	823	CLA	CHA-CBD-CGD-O2D
21	a	828	CLA	CHA-CBD-CGD-O1D
21	a	831	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
21	a	831	CLA	CHA-CBD-CGD-O2D
21	a	837	CLA	CHA-CBD-CGD-O1D
21	a	839	CLA	CHA-CBD-CGD-O1D
21	a	839	CLA	CHA-CBD-CGD-O2D
21	b	803	CLA	CHA-CBD-CGD-O1D
21	b	803	CLA	CHA-CBD-CGD-O2D
21	b	808	CLA	CHA-CBD-CGD-O1D
21	b	808	CLA	CHA-CBD-CGD-O2D
21	b	814	CLA	CHA-CBD-CGD-O1D
21	b	829	CLA	CHA-CBD-CGD-O1D
21	b	829	CLA	CHA-CBD-CGD-O2D
21	b	835	CLA	CHA-CBD-CGD-O1D
21	b	835	CLA	CHA-CBD-CGD-O2D
21	b	836	CLA	CHA-CBD-CGD-O1D
21	b	828	CLA	O1A-CGA-O2A-C1
21	7	312	CLA	O2A-C1-C2-C3
25	8	315	DGD	O2G-C2G-C3G-O3G
21	9	316	CLA	CBA-CGA-O2A-C1
21	b	833	CLA	O1D-CGD-O2D-CED
21	1	306	CLA	O1A-CGA-O2A-C1
21	1	310	CLA	O1A-CGA-O2A-C1
21	a	831	CLA	O1A-CGA-O2A-C1
21	b	817	CLA	C10-C11-C12-C13
21	1	306	CLA	C3-C5-C6-C7
21	9	314	CLA	O1A-CGA-O2A-C1
21	4	313	CLA	O1A-CGA-O2A-C1
21	1	310	CLA	C2-C3-C5-C6
29	a	855	LMG	C31-C32-C33-C34
21	1	308	CLA	C11-C12-C13-C14
21	a	807	CLA	C11-C10-C8-C9
21	a	829	CLA	C6-C7-C8-C9
21	b	832	CLA	C14-C13-C15-C16
21	a	852	CLA	C2A-CAA-CBA-CGA
21	b	807	CLA	C2A-CAA-CBA-CGA
19	6	302	XAT	C7-C8-C9-C19
19	5	302	XAT	C7-C8-C9-C10
19	6	302	XAT	C7-C8-C9-C10
23	h	202	A1L1F	C38-C39-C40-C41
21	a	824	CLA	C1A-C2A-CAA-CBA
21	b	813	CLA	C1A-C2A-CAA-CBA
21	b	823	CLA	C1A-C2A-CAA-CBA
21	1	307	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
21	8	314	CLA	O1D-CGD-O2D-CED
24	m	101	LHG	C4-O6-P-O3
21	1	308	CLA	CBD-CGD-O2D-CED
21	8	311	CLA	C3-C5-C6-C7
24	9	307	LHG	C2-C3-O3-P
21	b	835	CLA	C2-C3-C5-C6
24	a	845	LHG	C3-O3-P-O5
24	a	846	LHG	C4-O6-P-O5
24	m	101	LHG	C3-O3-P-O5
24	m	101	LHG	C4-O6-P-O5
21	1	310	CLA	C16-C17-C18-C19
21	a	830	CLA	C8-C10-C11-C12
21	a	806	CLA	O1D-CGD-O2D-CED
23	8	304	A1L1F	C47-C48-C49-C50
24	a	846	LHG	C10-C11-C12-C13
21	b	807	CLA	C16-C17-C18-C20
21	5	312	CLA	C2-C3-C5-C6
21	9	313	CLA	CAD-CBD-CGD-O1D
21	9	315	CLA	CAD-CBD-CGD-O1D
21	8	309	CLA	CAD-CBD-CGD-O1D
21	8	314	CLA	CAD-CBD-CGD-O1D
21	4	315	CLA	CAD-CBD-CGD-O1D
21	6	310	CLA	CAD-CBD-CGD-O1D
21	6	312	CLA	C2-C3-C5-C6
21	1	313	CLA	CAD-CBD-CGD-O1D
21	a	806	CLA	CAD-CBD-CGD-O1D
21	a	814	CLA	CAD-CBD-CGD-O1D
21	a	828	CLA	CAD-CBD-CGD-O1D
21	a	839	CLA	CAD-CBD-CGD-O1D
21	a	844	CLA	CAD-CBD-CGD-O1D
21	b	832	CLA	CAD-CBD-CGD-O1D
21	b	836	CLA	CAD-CBD-CGD-O1D
21	b	837	CLA	CAD-CBD-CGD-O1D
23	6	304	A1L1F	O13-C26-C30-C31
21	4	312	CLA	CBA-CGA-O2A-C1
21	9	308	CLA	C10-C11-C12-C13
21	b	841	CLA	C15-C16-C17-C18
22	1	315	SQD	C13-C14-C15-C16
21	5	308	CLA	C11-C10-C8-C7
21	8	307	CLA	C6-C7-C8-C10
21	6	309	CLA	C6-C7-C8-C10
21	6	316	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	a	842	CLA	C12-C13-C15-C16
21	b	801	CLA	C11-C10-C8-C7
21	b	801	CLA	C12-C13-C15-C16
21	b	805	CLA	C11-C12-C13-C15
21	b	825	CLA	C11-C10-C8-C7
21	b	827	CLA	C11-C10-C8-C7
21	b	829	CLA	C11-C12-C13-C15
21	b	832	CLA	C12-C13-C15-C16
24	m	101	LHG	O6-C4-C5-O7
26	a	843	PQN	C22-C23-C25-C26
21	a	834	CLA	C5-C6-C7-C8
21	b	818	CLA	C8-C10-C11-C12
21	b	824	CLA	C8-C10-C11-C12
21	8	309	CLA	C2A-CAA-CBA-CGA
21	1	308	CLA	C16-C17-C18-C19
22	5	317	SQD	C44-C45-C46-O48
22	5	317	SQD	O47-C45-C46-O48
22	1	315	SQD	O6-C44-C45-O47
24	a	846	LHG	O7-C5-C6-O8
24	b	849	LHG	O7-C5-C6-O8
21	b	840	CLA	C2C-C3C-CAC-CBC
21	b	814	CLA	C3-C5-C6-C7
21	9	316	CLA	O1A-CGA-O2A-C1
21	1	311	CLA	CBA-CGA-O2A-C1
21	5	310	CLA	C6-C7-C8-C9
21	9	308	CLA	C11-C12-C13-C14
21	8	309	CLA	C11-C10-C8-C9
21	4	308	CLA	C14-C13-C15-C16
21	a	801	CLA	C6-C7-C8-C9
21	a	802	CLA	C6-C7-C8-C9
21	a	807	CLA	C6-C7-C8-C9
21	a	809	CLA	C6-C7-C8-C9
21	a	814	CLA	C6-C7-C8-C9
21	a	820	CLA	C11-C12-C13-C14
21	a	842	CLA	C14-C13-C15-C16
21	b	803	CLA	C11-C12-C13-C14
21	b	813	CLA	C11-C10-C8-C9
21	b	839	CLA	C14-C13-C15-C16
24	m	101	LHG	C10-C11-C12-C13
21	8	310	CLA	O1A-CGA-O2A-C1
21	a	809	CLA	C10-C11-C12-C13
20	9	306	A1L1G	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
20	1	301	A1L1G	C37-C38-C39-C28
21	b	832	CLA	C2C-C3C-CAC-CBC
21	b	802	CLA	C3-C5-C6-C7
21	7	308	CLA	C8-C10-C11-C12
21	8	307	CLA	C16-C17-C18-C20
24	m	101	LHG	C13-C14-C15-C16
21	b	804	CLA	CBA-CGA-O2A-C1
21	b	827	CLA	C10-C11-C12-C13
21	a	823	CLA	C1-C2-C3-C4
21	b	831	CLA	C1-C2-C3-C4
21	a	801	CLA	CAA-CBA-CGA-O2A
22	1	315	SQD	C46-C45-O47-C7
21	4	317	CLA	C2A-CAA-CBA-CGA
21	1	305	CLA	C2A-CAA-CBA-CGA
21	1	308	CLA	C2A-CAA-CBA-CGA
21	a	813	CLA	C2A-CAA-CBA-CGA
21	a	821	CLA	C2A-CAA-CBA-CGA
21	5	312	CLA	C2-C1-O2A-CGA
21	6	309	CLA	C2-C1-O2A-CGA
21	6	312	CLA	C2-C1-O2A-CGA
21	7	306	CLA	C2-C1-O2A-CGA
21	a	816	CLA	C2-C1-O2A-CGA
21	a	822	CLA	C2-C1-O2A-CGA
21	b	809	CLA	C2-C1-O2A-CGA
22	5	317	SQD	C7-C8-C9-C10
21	b	804	CLA	O1A-CGA-O2A-C1
21	a	856	CLA	CBD-CGD-O2D-CED
21	1	311	CLA	O1A-CGA-O2A-C1
21	b	817	CLA	O1A-CGA-O2A-C1
21	h	203	CLA	C4-C3-C5-C6
21	1	308	CLA	O1D-CGD-O2D-CED
21	1	311	CLA	O1D-CGD-O2D-CED
27	b	848	BCR	C1-C6-C7-C8
27	f	804	BCR	C23-C24-C25-C30
21	b	839	CLA	C2-C3-C5-C6
24	b	849	LHG	C25-C26-C27-C28
21	b	817	CLA	CBA-CGA-O2A-C1
21	a	830	CLA	C16-C17-C18-C19
21	b	807	CLA	C16-C17-C18-C19
21	b	822	CLA	C3-C5-C6-C7
21	b	824	CLA	C2A-CAA-CBA-CGA
21	b	827	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
21	a	839	CLA	C15-C16-C17-C18
24	9	307	LHG	C4-O6-P-O3
24	a	846	LHG	C3-O3-P-O6
24	a	846	LHG	C4-O6-P-O3
21	a	841	CLA	C4-C3-C5-C6
21	4	308	CLA	C11-C12-C13-C15
21	f	802	CLA	C6-C7-C8-C10
21	a	801	CLA	C14-C13-C15-C16
21	a	812	CLA	C6-C7-C8-C9
21	b	802	CLA	C14-C13-C15-C16
21	b	827	CLA	C11-C10-C8-C9
21	b	828	CLA	C14-C13-C15-C16
26	a	843	PQN	C24-C23-C25-C26
19	5	301	XAT	C29-C30-C31-C32
27	m	102	BCR	C13-C14-C15-C16
21	b	802	CLA	C16-C17-C18-C20
21	b	801	CLA	CBA-CGA-O2A-C1
21	5	308	CLA	C8-C10-C11-C12
21	a	830	CLA	C15-C16-C17-C18
21	a	856	CLA	C15-C16-C17-C18
21	h	201	CLA	C13-C15-C16-C17
21	b	801	CLA	O1A-CGA-O2A-C1
21	9	314	CLA	C2A-CAA-CBA-CGA
21	8	312	CLA	CBD-CGD-O2D-CED
19	7	303	XAT	C11-C12-C13-C20
21	5	316	CLA	CAA-CBA-CGA-O2A
19	6	303	XAT	C11-C12-C13-C14
24	a	846	LHG	C1-C2-C3-O3
21	b	827	CLA	C16-C17-C18-C19
21	a	813	CLA	CBA-CGA-O2A-C1
21	a	813	CLA	O1A-CGA-O2A-C1
21	7	313	CLA	O1D-CGD-O2D-CED
21	a	856	CLA	O1D-CGD-O2D-CED
21	8	305	CLA	CBD-CGD-O2D-CED
21	4	310	CLA	CBD-CGD-O2D-CED
21	a	832	CLA	CBD-CGD-O2D-CED
21	b	840	CLA	C16-C17-C18-C20
21	5	311	CLA	CAA-CBA-CGA-O1A
19	6	306	XAT	C29-C30-C31-C32
19	7	301	XAT	C29-C30-C31-C32
19	a	853	XAT	C9-C10-C11-C12
21	a	820	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
21	a	812	CLA	C3-C5-C6-C7
24	a	845	LHG	C25-C26-C27-C28
21	b	813	CLA	C10-C11-C12-C13
21	a	810	CLA	C2-C1-O2A-CGA
21	a	814	CLA	C2-C1-O2A-CGA
21	5	310	CLA	C2A-CAA-CBA-CGA
21	8	307	CLA	C2A-CAA-CBA-CGA
21	7	306	CLA	C2A-CAA-CBA-CGA
21	a	803	CLA	C2A-CAA-CBA-CGA
21	b	808	CLA	C2A-CAA-CBA-CGA
21	b	810	CLA	C2A-CAA-CBA-CGA
25	b	851	DGD	O2G-C2G-C3G-O3G
23	9	302	A1L1F	C3-C8-O7-C54
21	8	305	CLA	O1D-CGD-O2D-CED
21	b	813	CLA	C3A-C2A-CAA-CBA
21	b	831	CLA	C3A-C2A-CAA-CBA
21	a	839	CLA	C16-C17-C18-C20
21	a	802	CLA	C4-C3-C5-C6
21	5	308	CLA	C11-C10-C8-C9
21	1	310	CLA	C11-C12-C13-C14
21	a	822	CLA	C11-C10-C8-C9
21	a	829	CLA	C11-C12-C13-C14
21	a	831	CLA	C6-C7-C8-C9
21	a	844	CLA	C6-C7-C8-C9
21	a	856	CLA	C11-C10-C8-C9
21	b	807	CLA	C6-C7-C8-C9
21	a	830	CLA	C16-C17-C18-C20
21	5	307	CLA	CAA-CBA-CGA-O1A
21	6	310	CLA	C3-C5-C6-C7
27	b	845	BCR	C11-C10-C9-C34
27	b	845	BCR	C20-C21-C22-C37
27	b	853	BCR	C11-C10-C9-C34
27	f	804	BCR	C35-C13-C14-C15
21	8	312	CLA	O1D-CGD-O2D-CED
21	8	307	CLA	C16-C17-C18-C19
21	1	308	CLA	C16-C17-C18-C20
21	a	801	CLA	CBA-CGA-O2A-C1
21	b	841	CLA	CBA-CGA-O2A-C1
21	a	832	CLA	O1D-CGD-O2D-CED
25	8	315	DGD	O6D-C1D-O3G-C3G
24	a	845	LHG	C14-C15-C16-C17
19	6	302	XAT	C31-C32-C33-C40

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Mol	Chain	Res	Type	Atoms
19	7	301	XAT	C7-C8-C9-C19
24	m	101	LHG	C15-C16-C17-C18
21	4	311	CLA	C1A-C2A-CAA-CBA
21	4	316	CLA	C1A-C2A-CAA-CBA
21	b	815	CLA	C1A-C2A-CAA-CBA
21	b	835	CLA	C1A-C2A-CAA-CBA
21	a	807	CLA	C11-C10-C8-C7
21	a	814	CLA	C11-C10-C8-C7
21	a	852	CLA	C12-C13-C15-C16
21	a	817	CLA	CAA-CBA-CGA-O2A
21	a	801	CLA	O1A-CGA-O2A-C1
21	b	841	CLA	O1A-CGA-O2A-C1
21	4	314	CLA	CAA-CBA-CGA-O2A
21	a	817	CLA	CAA-CBA-CGA-O1A
29	a	855	LMG	C11-C12-C13-C14
21	b	840	CLA	C4C-C3C-CAC-CBC
21	1	305	CLA	C3-C5-C6-C7
21	5	308	CLA	C2A-CAA-CBA-CGA
21	h	201	CLA	C8-C10-C11-C12
21	4	314	CLA	CAA-CBA-CGA-O1A
21	1	307	CLA	C6-C7-C8-C9
21	4	310	CLA	C13-C15-C16-C17
21	a	852	CLA	C2-C3-C5-C6
21	4	310	CLA	O1D-CGD-O2D-CED
21	b	817	CLA	CBD-CGD-O2D-CED
27	b	845	BCR	C11-C10-C9-C8
27	b	845	BCR	C20-C21-C22-C23
27	b	853	BCR	C11-C10-C9-C8
27	f	804	BCR	C12-C13-C14-C15
21	5	311	CLA	CBA-CGA-O2A-C1
20	9	301	A1L1G	C34-C35-C36-C37
20	7	302	A1L1G	C36-C37-C38-C39
20	1	301	A1L1G	C40-C41-C42-C44
21	5	314	CLA	CAA-CBA-CGA-O1A
21	b	817	CLA	O1D-CGD-O2D-CED
21	a	830	CLA	C4-C3-C5-C6
21	a	839	CLA	C2-C1-O2A-CGA
21	a	802	CLA	C2-C3-C5-C6
21	a	841	CLA	C2-C3-C5-C6
21	b	807	CLA	C14-C13-C15-C16
21	5	307	CLA	CAA-CBA-CGA-O2A
21	5	312	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
21	4	306	CLA	C2A-CAA-CBA-CGA
21	6	307	CLA	C2A-CAA-CBA-CGA
21	a	839	CLA	C2A-CAA-CBA-CGA
21	a	842	CLA	O1A-CGA-O2A-C1
27	b	850	BCR	C23-C24-C25-C30
27	j	102	BCR	C1-C6-C7-C8
27	m	102	BCR	C23-C24-C25-C30
21	9	312	CLA	CAA-CBA-CGA-O2A
21	a	819	CLA	CAA-CBA-CGA-O2A
22	1	315	SQD	C15-C16-C17-C18
23	h	202	A1L1F	C36-C37-C38-C39
19	a	854	XAT	C31-C32-C33-C34
21	b	836	CLA	C4C-C3C-CAC-CBC
21	a	852	CLA	C10-C11-C12-C13
21	a	813	CLA	C6-C7-C8-C9
21	5	314	CLA	CAA-CBA-CGA-O2A
21	7	307	CLA	CAA-CBA-CGA-O2A
21	a	804	CLA	O1A-CGA-O2A-C1
21	a	830	CLA	O1A-CGA-O2A-C1
21	5	308	CLA	C11-C12-C13-C14
21	b	813	CLA	C16-C17-C18-C19
25	b	851	DGD	C1B-C2B-C3B-C4B
21	7	307	CLA	CAA-CBA-CGA-O1A
21	1	314	CLA	CAA-CBA-CGA-O2A
21	9	308	CLA	C2A-CAA-CBA-CGA
21	a	826	CLA	C13-C15-C16-C17
21	a	830	CLA	CBA-CGA-O2A-C1
21	a	842	CLA	CBA-CGA-O2A-C1
21	7	317	CLA	CAA-CBA-CGA-O2A
21	b	807	CLA	C4-C3-C5-C6
21	a	852	CLA	C11-C10-C8-C7
21	b	813	CLA	C5-C6-C7-C8
19	8	302	XAT	C9-C10-C11-C12
25	8	315	DGD	C2D-C1D-O3G-C3G
21	a	804	CLA	C6-C7-C8-C9
23	6	304	A1L1F	C3-C8-O7-C54
21	4	308	CLA	C3-C5-C6-C7
21	1	314	CLA	CAA-CBA-CGA-O1A
21	4	309	CLA	CAA-CBA-CGA-O2A
21	1	306	CLA	C16-C17-C18-C19
21	a	804	CLA	CBA-CGA-O2A-C1
21	5	315	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
21	b	810	CLA	C8-C10-C11-C12
21	a	830	CLA	C2-C3-C5-C6
23	h	202	A1L1F	C14-C29-C30-C31
29	j	103	LMG	C11-C12-C13-C14
24	m	101	LHG	C35-C36-C37-C38
21	8	307	CLA	C6-C7-C8-C9
21	4	308	CLA	C6-C7-C8-C9
21	6	309	CLA	C11-C10-C8-C9
21	a	801	CLA	C11-C10-C8-C9
21	b	805	CLA	C11-C12-C13-C14
21	b	829	CLA	C11-C12-C13-C14
21	4	306	CLA	C3A-C2A-CAA-CBA
21	1	310	CLA	C3A-C2A-CAA-CBA
21	b	808	CLA	C3A-C2A-CAA-CBA
21	b	813	CLA	C13-C15-C16-C17
21	b	838	CLA	CAA-CBA-CGA-O2A
21	5	307	CLA	CAD-CBD-CGD-O2D
21	5	312	CLA	CAD-CBD-CGD-O2D
21	9	312	CLA	CAD-CBD-CGD-O2D
21	8	310	CLA	CAD-CBD-CGD-O2D
21	8	311	CLA	CAD-CBD-CGD-O2D
21	4	311	CLA	CAD-CBD-CGD-O2D
21	6	312	CLA	CAD-CBD-CGD-O2D
21	7	311	CLA	CAD-CBD-CGD-O2D
21	1	307	CLA	CAD-CBD-CGD-O2D
21	1	309	CLA	CAD-CBD-CGD-O2D
21	a	827	CLA	CAD-CBD-CGD-O2D
21	a	829	CLA	CAD-CBD-CGD-O2D
21	b	812	CLA	CAD-CBD-CGD-O2D
21	b	813	CLA	CAD-CBD-CGD-O2D
21	b	816	CLA	CAD-CBD-CGD-O2D
21	b	838	CLA	CAD-CBD-CGD-O2D
21	l	203	CLA	CAD-CBD-CGD-O2D
21	b	818	CLA	C2A-CAA-CBA-CGA
21	b	802	CLA	C10-C11-C12-C13
21	a	818	CLA	CAA-CBA-CGA-O2A
21	b	801	CLA	CAA-CBA-CGA-O2A
21	a	835	CLA	C4-C3-C5-C6
21	b	834	CLA	C4-C3-C5-C6
21	7	317	CLA	CAA-CBA-CGA-O1A
21	b	807	CLA	C2-C3-C5-C6
21	l	203	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
27	f	801	BCR	C17-C18-C19-C20
19	5	301	XAT	O4-C6-C7-C8
19	5	302	XAT	O4-C6-C7-C8
19	5	305	XAT	O24-C26-C27-C28
19	9	303	XAT	O24-C26-C27-C28
19	8	301	XAT	O24-C26-C27-C28
19	4	305	XAT	O4-C6-C7-C8
19	6	305	XAT	O4-C6-C7-C8
19	6	306	XAT	O4-C6-C7-C8
19	7	305	XAT	O4-C6-C7-C8
19	7	305	XAT	O24-C26-C27-C28
22	1	315	SQD	O47-C7-C8-C9
21	a	827	CLA	C10-C11-C12-C13
21	b	834	CLA	C15-C16-C17-C18
21	4	309	CLA	O2A-C1-C2-C3
21	1	305	CLA	O2A-C1-C2-C3
21	a	826	CLA	O2A-C1-C2-C3
21	b	817	CLA	O2A-C1-C2-C3
21	b	832	CLA	O2A-C1-C2-C3
21	4	308	CLA	C2A-CAA-CBA-CGA
26	a	843	PQN	C18-C20-C21-C22
21	9	313	CLA	CAA-CBA-CGA-O2A
21	a	836	CLA	CAA-CBA-CGA-O2A
21	4	306	CLA	CAA-CBA-CGA-O2A
19	7	304	XAT	C9-C10-C11-C12
21	5	314	CLA	CHA-CBD-CGD-O1D
21	4	310	CLA	CHA-CBD-CGD-O1D
21	4	314	CLA	CHA-CBD-CGD-O2D
21	6	314	CLA	CHA-CBD-CGD-O2D
21	a	802	CLA	CHA-CBD-CGD-O1D
21	a	802	CLA	CHA-CBD-CGD-O2D
21	a	804	CLA	CHA-CBD-CGD-O1D
21	a	804	CLA	CHA-CBD-CGD-O2D
21	a	816	CLA	CHA-CBD-CGD-O1D
21	a	817	CLA	CHA-CBD-CGD-O1D
21	a	817	CLA	CHA-CBD-CGD-O2D
21	a	820	CLA	CHA-CBD-CGD-O1D
21	a	820	CLA	CHA-CBD-CGD-O2D
21	a	828	CLA	CHA-CBD-CGD-O2D
21	a	830	CLA	CHA-CBD-CGD-O1D
21	a	830	CLA	CHA-CBD-CGD-O2D
21	a	837	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
21	b	801	CLA	CHA-CBD-CGD-O1D
21	b	801	CLA	CHA-CBD-CGD-O2D
21	b	804	CLA	CHA-CBD-CGD-O1D
21	b	804	CLA	CHA-CBD-CGD-O2D
21	b	814	CLA	CHA-CBD-CGD-O2D
21	b	815	CLA	CHA-CBD-CGD-O1D
21	b	815	CLA	CHA-CBD-CGD-O2D
21	b	824	CLA	CHA-CBD-CGD-O1D
21	b	824	CLA	CHA-CBD-CGD-O2D
21	b	833	CLA	CHA-CBD-CGD-O2D
21	b	836	CLA	CHA-CBD-CGD-O2D
23	6	304	A1L1F	O13-C45-C47-C48
21	a	835	CLA	C2-C3-C5-C6
23	9	302	A1L1F	C50-C51-C52-C53
21	a	810	CLA	CAA-CBA-CGA-O2A
21	b	806	CLA	CAA-CBA-CGA-O2A
21	h	203	CLA	CAA-CBA-CGA-O2A
24	9	307	LHG	O7-C5-C6-O8
21	4	312	CLA	O1A-CGA-O2A-C1
21	b	824	CLA	C10-C11-C12-C13
21	b	802	CLA	CAA-CBA-CGA-O2A
21	b	806	CLA	C16-C17-C18-C19
21	a	829	CLA	CAA-CBA-CGA-O2A
21	b	808	CLA	CAA-CBA-CGA-O2A
21	9	308	CLA	C11-C10-C8-C7
21	8	311	CLA	C6-C7-C8-C10
21	a	801	CLA	C11-C10-C8-C7
21	a	835	CLA	C11-C12-C13-C15
21	b	809	CLA	C2-C3-C5-C6
21	1	306	CLA	CAA-CBA-CGA-O2A
21	1	309	CLA	CAA-CBA-CGA-O2A
21	b	817	CLA	CAA-CBA-CGA-O2A
21	b	832	CLA	CAA-CBA-CGA-O2A
21	6	308	CLA	C6-C7-C8-C9
21	a	834	CLA	C11-C12-C13-C14
21	f	802	CLA	C6-C7-C8-C9
21	1	312	CLA	CAA-CBA-CGA-O2A
24	a	845	LHG	O8-C23-C24-C25
21	b	838	CLA	CAA-CBA-CGA-O1A
22	5	317	SQD	C4-C5-C6-S
23	9	302	A1L1F	O13-C26-C30-C29
23	6	304	A1L1F	O13-C26-C30-C29

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Mol	Chain	Res	Type	Atoms
21	a	829	CLA	C2A-CAA-CBA-CGA
21	a	841	CLA	C2A-CAA-CBA-CGA
21	a	818	CLA	CAA-CBA-CGA-O1A
21	4	309	CLA	CAA-CBA-CGA-O1A
21	b	801	CLA	CAA-CBA-CGA-O1A
21	b	809	CLA	CAA-CBA-CGA-O1A
24	m	101	LHG	O1-C1-C2-C3
21	b	833	CLA	CAA-CBA-CGA-O2A
22	1	315	SQD	O49-C7-C8-C9
19	6	302	XAT	C31-C32-C33-C34
19	7	301	XAT	C7-C8-C9-C10
27	i	101	BCR	C17-C18-C19-C20
21	9	311	CLA	C1A-C2A-CAA-CBA
21	9	312	CLA	C1A-C2A-CAA-CBA
21	1	310	CLA	C1A-C2A-CAA-CBA
21	a	803	CLA	C1A-C2A-CAA-CBA
21	a	804	CLA	C1A-C2A-CAA-CBA
21	a	814	CLA	C1A-C2A-CAA-CBA
21	a	815	CLA	C1A-C2A-CAA-CBA
21	b	822	CLA	C1A-C2A-CAA-CBA
21	b	825	CLA	C1A-C2A-CAA-CBA
21	b	831	CLA	C1A-C2A-CAA-CBA
21	b	817	CLA	CAA-CBA-CGA-O1A
21	a	827	CLA	C2-C1-O2A-CGA
21	a	829	CLA	C2-C1-O2A-CGA
21	b	806	CLA	C2-C1-O2A-CGA
21	b	835	CLA	C2-C1-O2A-CGA
21	4	306	CLA	CAA-CBA-CGA-O1A
29	j	103	LMG	C7-C8-C9-O8
23	8	304	A1L1F	C3-C8-O7-C54
21	b	833	CLA	C10-C11-C12-C13
21	b	819	CLA	C6-C7-C8-C9
21	b	802	CLA	C5-C6-C7-C8
24	m	101	LHG	C30-C31-C32-C33
21	b	813	CLA	CBD-CGD-O2D-CED
24	m	101	LHG	C27-C28-C29-C30
23	6	301	A1L1F	O13-C45-C47-C48
21	b	808	CLA	CAA-CBA-CGA-O1A
21	h	203	CLA	C2-C3-C5-C6
21	b	803	CLA	C4C-C3C-CAC-CBC
21	a	826	CLA	C10-C11-C12-C13
24	a	846	LHG	C3-O3-P-O5

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Mol	Chain	Res	Type	Atoms
21	a	836	CLA	CAA-CBA-CGA-O1A
21	b	832	CLA	CAA-CBA-CGA-O1A
21	h	203	CLA	CAA-CBA-CGA-O1A
21	b	803	CLA	CAA-CBA-CGA-O2A
27	b	850	BCR	C23-C24-C25-C26
27	b	852	BCR	C1-C6-C7-C8
27	j	102	BCR	C5-C6-C7-C8
27	m	102	BCR	C23-C24-C25-C26
21	1	312	CLA	CAA-CBA-CGA-O1A
21	b	806	CLA	CAA-CBA-CGA-O1A
21	9	315	CLA	C2C-C3C-CAC-CBC
21	7	309	CLA	CBA-CGA-O2A-C1
21	7	308	CLA	C2A-CAA-CBA-CGA
23	6	304	A1L1F	O46-C45-C47-C48
21	7	309	CLA	O1A-CGA-O2A-C1
21	a	813	CLA	O1D-CGD-O2D-CED
21	a	813	CLA	CBD-CGD-O2D-CED
21	a	834	CLA	C10-C11-C12-C13
21	a	810	CLA	C16-C17-C18-C20
21	b	809	CLA	C16-C17-C18-C20
21	4	310	CLA	CAD-CBD-CGD-O1D
21	4	316	CLA	CAD-CBD-CGD-O1D
21	7	316	CLA	C2-C3-C5-C6
21	a	816	CLA	CAD-CBD-CGD-O1D
21	b	814	CLA	CAD-CBD-CGD-O1D
21	b	818	CLA	CAD-CBD-CGD-O1D
21	f	802	CLA	CAD-CBD-CGD-O1D
22	5	317	SQD	O5-C5-C6-S
24	9	307	LHG	C6-C5-O7-C7
21	a	820	CLA	CBD-CGD-O2D-CED
23	9	302	A1L1F	O46-C45-O13-C26
21	b	804	CLA	C11-C12-C13-C14
21	b	805	CLA	C11-C10-C8-C9
21	b	833	CLA	C11-C10-C8-C9
23	9	302	A1L1F	C47-C45-O13-C26
21	b	833	CLA	C3-C5-C6-C7
21	a	814	CLA	C16-C17-C18-C19
21	9	314	CLA	CAA-CBA-CGA-O2A
21	6	316	CLA	CAA-CBA-CGA-O2A
21	7	308	CLA	CAA-CBA-CGA-O2A
21	a	813	CLA	CAA-CBA-CGA-O2A
21	b	824	CLA	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
22	5	317	SQD	C10-C11-C12-C13
21	a	810	CLA	CAA-CBA-CGA-O1A
21	4	310	CLA	C8-C10-C11-C12
21	a	801	CLA	C5-C6-C7-C8
21	4	310	CLA	CAA-CBA-CGA-O2A
21	7	309	CLA	CAA-CBA-CGA-O2A
21	7	316	CLA	CAA-CBA-CGA-O2A
21	a	826	CLA	CAA-CBA-CGA-O2A
21	a	856	CLA	CAA-CBA-CGA-O2A
21	b	829	CLA	O1A-CGA-O2A-C1
21	5	310	CLA	C15-C16-C17-C18
21	8	308	CLA	C4-C3-C5-C6
21	b	809	CLA	C4-C3-C5-C6
21	9	312	CLA	C3A-C2A-CAA-CBA
21	6	308	CLA	C6-C7-C8-C10
21	7	309	CLA	CHA-CBD-CGD-O1D
21	1	306	CLA	C3A-C2A-CAA-CBA
21	1	310	CLA	C12-C13-C15-C16
21	a	834	CLA	C11-C12-C13-C15
21	b	804	CLA	C11-C12-C13-C15
21	b	818	CLA	C11-C10-C8-C7
21	l	202	CLA	C6-C7-C8-C10
21	a	813	CLA	CAA-CBA-CGA-O1A
21	b	833	CLA	CAA-CBA-CGA-O1A
21	5	310	CLA	CAA-CBA-CGA-O2A
21	7	310	CLA	CAA-CBA-CGA-O2A
21	a	835	CLA	CAA-CBA-CGA-O2A
22	1	315	SQD	C12-C13-C14-C15
19	7	303	XAT	C11-C12-C13-C14
27	b	847	BCR	C7-C8-C9-C10
21	7	308	CLA	CAA-CBA-CGA-O1A
21	7	316	CLA	CAA-CBA-CGA-O1A
21	a	835	CLA	CAA-CBA-CGA-O1A
23	6	301	A1L1F	O46-C45-C47-C48
21	a	820	CLA	O1D-CGD-O2D-CED
21	6	314	CLA	CAA-CBA-CGA-O2A
24	a	845	LHG	O10-C23-C24-C25
21	5	310	CLA	CAA-CBA-CGA-O1A
21	7	314	CLA	CAA-CBA-CGA-O2A

All (1) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
23	h	202	A1L1F	C1-C11-C3-C4-C6-C8

215 monomers are involved in 751 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
27	i	102	BCR	13	0
27	b	847	BCR	6	0
21	7	306	CLA	2	0
24	m	101	LHG	2	0
21	a	825	CLA	4	0
21	b	819	CLA	2	0
21	a	838	CLA	1	0
27	b	845	BCR	6	0
21	f	803	CLA	1	0
19	7	303	XAT	13	0
23	1	304	A1L1F	11	0
21	5	306	CLA	2	0
19	5	301	XAT	5	0
21	a	814	CLA	3	0
21	a	808	CLA	1	0
21	4	317	CLA	6	0
21	b	802	CLA	3	0
21	b	822	CLA	5	0
21	b	826	CLA	3	0
21	b	807	CLA	1	0
21	b	804	CLA	4	0
21	9	309	CLA	1	0
21	1	308	CLA	3	0
21	a	809	CLA	3	0
21	a	824	CLA	1	0
21	a	831	CLA	5	0
21	b	828	CLA	4	0
19	9	304	XAT	5	0
21	b	805	CLA	2	0
21	4	307	CLA	1	0
21	1	202	CLA	9	0
23	6	301	A1L1F	2	0
21	a	842	CLA	4	0
21	1	305	CLA	2	0
19	8	303	XAT	6	0
21	a	806	CLA	7	0
21	b	824	CLA	6	0
21	1	312	CLA	2	0
21	9	311	CLA	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	b	833	CLA	5	0
21	a	844	CLA	17	0
21	b	839	CLA	13	0
19	4	302	XAT	6	0
21	4	309	CLA	3	0
21	b	814	CLA	3	0
19	8	301	XAT	3	0
21	b	837	CLA	7	0
21	6	314	CLA	1	0
21	8	312	CLA	2	0
21	a	841	CLA	16	0
21	b	835	CLA	1	0
26	a	843	PQN	4	0
21	5	315	CLA	2	0
21	b	811	CLA	2	0
21	9	313	CLA	3	0
19	a	853	XAT	4	0
24	a	846	LHG	2	0
21	a	852	CLA	4	0
21	a	803	CLA	13	0
21	a	816	CLA	2	0
21	8	307	CLA	5	0
21	4	308	CLA	6	0
21	8	308	CLA	2	0
21	4	316	CLA	1	0
21	a	823	CLA	3	0
21	a	834	CLA	6	0
21	b	829	CLA	4	0
29	j	103	LMG	6	0
24	b	849	LHG	2	0
21	6	315	CLA	3	0
27	b	844	BCR	2	0
21	8	311	CLA	3	0
19	8	302	XAT	8	0
21	a	818	CLA	11	0
21	a	827	CLA	4	0
21	b	841	CLA	3	0
25	8	315	DGD	2	0
21	a	820	CLA	7	0
21	a	810	CLA	9	0
21	b	821	CLA	3	0
19	6	306	XAT	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	4	313	CLA	3	0
21	8	314	CLA	1	0
21	l	201	CLA	1	0
27	b	852	BCR	9	0
21	a	822	CLA	5	0
25	4	318	DGD	11	0
21	f	802	CLA	1	0
21	9	314	CLA	8	0
19	4	303	XAT	9	0
19	4	304	XAT	3	0
19	9	305	XAT	4	0
20	9	301	A1L1G	2	0
20	1	301	A1L1G	1	0
21	b	817	CLA	8	0
21	1	311	CLA	4	0
21	7	316	CLA	2	0
21	6	308	CLA	4	0
21	a	807	CLA	4	0
21	b	832	CLA	10	0
21	b	840	CLA	4	0
21	a	805	CLA	1	0
21	8	313	CLA	3	0
19	7	305	XAT	2	0
21	5	309	CLA	2	0
21	4	312	CLA	1	0
21	a	856	CLA	22	0
27	b	843	BCR	5	0
21	b	808	CLA	3	0
21	7	312	CLA	1	0
19	7	304	XAT	9	0
21	b	810	CLA	22	0
22	1	315	SQD	3	0
29	a	855	LMG	11	0
21	a	830	CLA	5	0
19	5	305	XAT	5	0
21	b	831	CLA	1	0
27	a	850	BCR	3	0
23	6	304	A1L1F	4	0
21	4	311	CLA	2	0
21	a	829	CLA	6	0
21	5	312	CLA	1	0
21	a	813	CLA	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
24	9	307	LHG	1	0
21	a	839	CLA	5	0
27	b	853	BCR	17	0
21	4	310	CLA	5	0
21	5	313	CLA	3	0
21	7	313	CLA	4	0
20	5	304	A1L1G	1	0
21	6	309	CLA	2	0
21	h	203	CLA	2	0
27	m	102	BCR	1	0
21	6	313	CLA	2	0
27	a	848	BCR	5	0
20	9	306	A1L1G	1	0
21	1	306	CLA	6	0
24	a	845	LHG	3	0
27	i	101	BCR	5	0
19	6	305	XAT	5	0
21	j	101	CLA	2	0
21	4	315	CLA	1	0
21	5	308	CLA	7	0
21	a	802	CLA	15	0
21	a	828	CLA	4	0
21	b	823	CLA	6	0
21	b	836	CLA	5	0
21	b	813	CLA	5	0
21	b	830	CLA	5	0
21	9	316	CLA	11	0
27	b	850	BCR	3	0
26	b	842	PQN	6	0
21	b	803	CLA	4	0
21	7	314	CLA	3	0
20	7	302	A1L1G	2	0
27	a	849	BCR	3	0
19	1	303	XAT	2	0
21	a	801	CLA	6	0
21	4	306	CLA	2	0
21	b	801	CLA	14	0
25	b	851	DGD	6	0
21	b	838	CLA	5	0
27	b	848	BCR	5	0
21	b	834	CLA	4	0
28	c	102	SF4	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
19	7	301	XAT	5	0
27	j	102	BCR	14	0
19	4	301	XAT	5	0
22	5	317	SQD	1	0
27	a	847	BCR	4	0
21	b	818	CLA	4	0
19	5	303	XAT	8	0
19	6	302	XAT	4	0
21	5	310	CLA	3	0
19	4	305	XAT	4	0
21	5	316	CLA	2	0
21	b	820	CLA	2	0
21	b	827	CLA	4	0
21	9	310	CLA	2	0
21	8	309	CLA	1	0
27	f	801	BCR	24	0
19	a	854	XAT	3	0
21	a	832	CLA	1	0
19	1	302	XAT	2	0
21	8	306	CLA	1	0
19	6	303	XAT	9	0
21	a	833	CLA	11	0
21	7	311	CLA	3	0
23	8	304	A1L1F	2	0
21	8	305	CLA	4	0
21	a	837	CLA	1	0
21	9	308	CLA	6	0
21	a	835	CLA	5	0
21	a	819	CLA	5	0
23	h	202	A1L1F	4	0
21	h	201	CLA	5	0
21	5	311	CLA	2	0
21	7	307	CLA	2	0
21	9	315	CLA	1	0
21	b	812	CLA	5	0
21	b	806	CLA	5	0
21	4	314	CLA	1	0
21	7	308	CLA	7	0
21	a	840	CLA	6	0
21	a	826	CLA	7	0
23	9	302	A1L1F	2	0
27	f	804	BCR	7	0

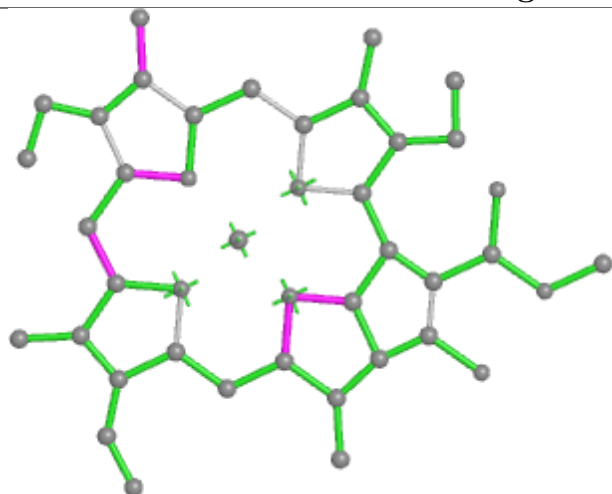
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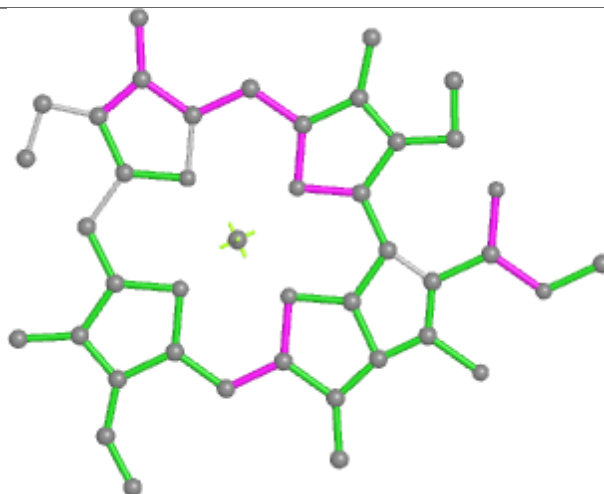
Mol	Chain	Res	Type	Clashes	Symm-Clashes
19	5	302	XAT	3	0
21	b	816	CLA	4	0
21	a	804	CLA	1	0
27	b	846	BCR	3	0
21	7	315	CLA	2	0
21	9	312	CLA	4	0
21	b	825	CLA	3	0
19	9	303	XAT	7	0

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

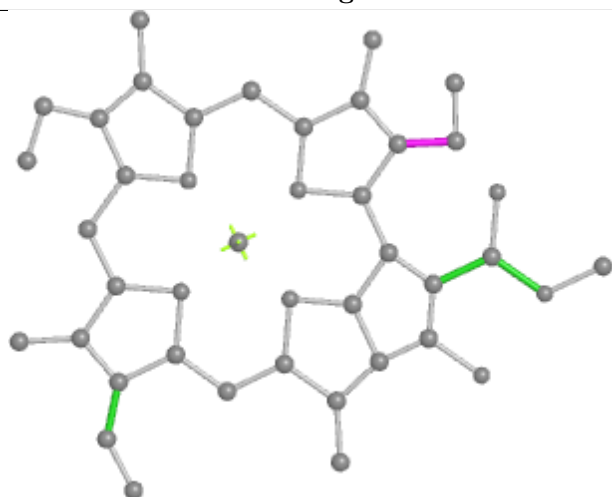
Ligand CLA 6 311



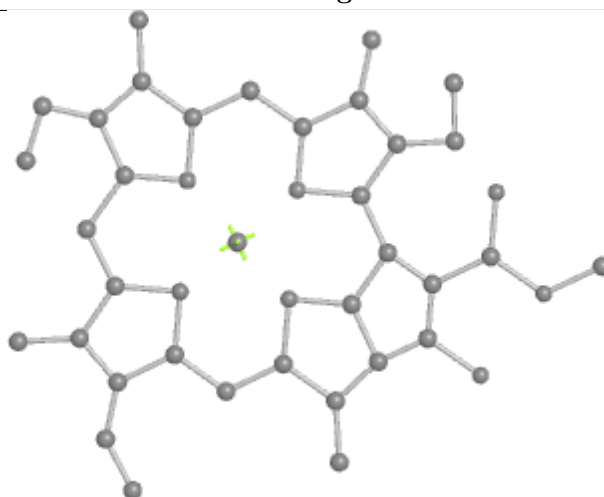
Bond lengths



Bond angles

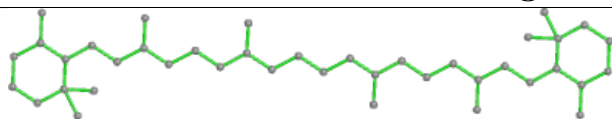


Torsions

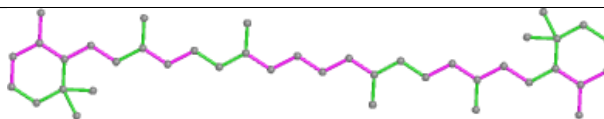


Rings

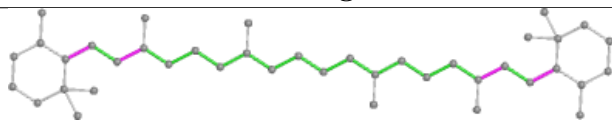
Ligand BCR i 102



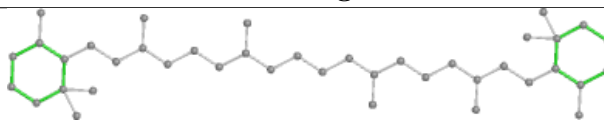
Bond lengths



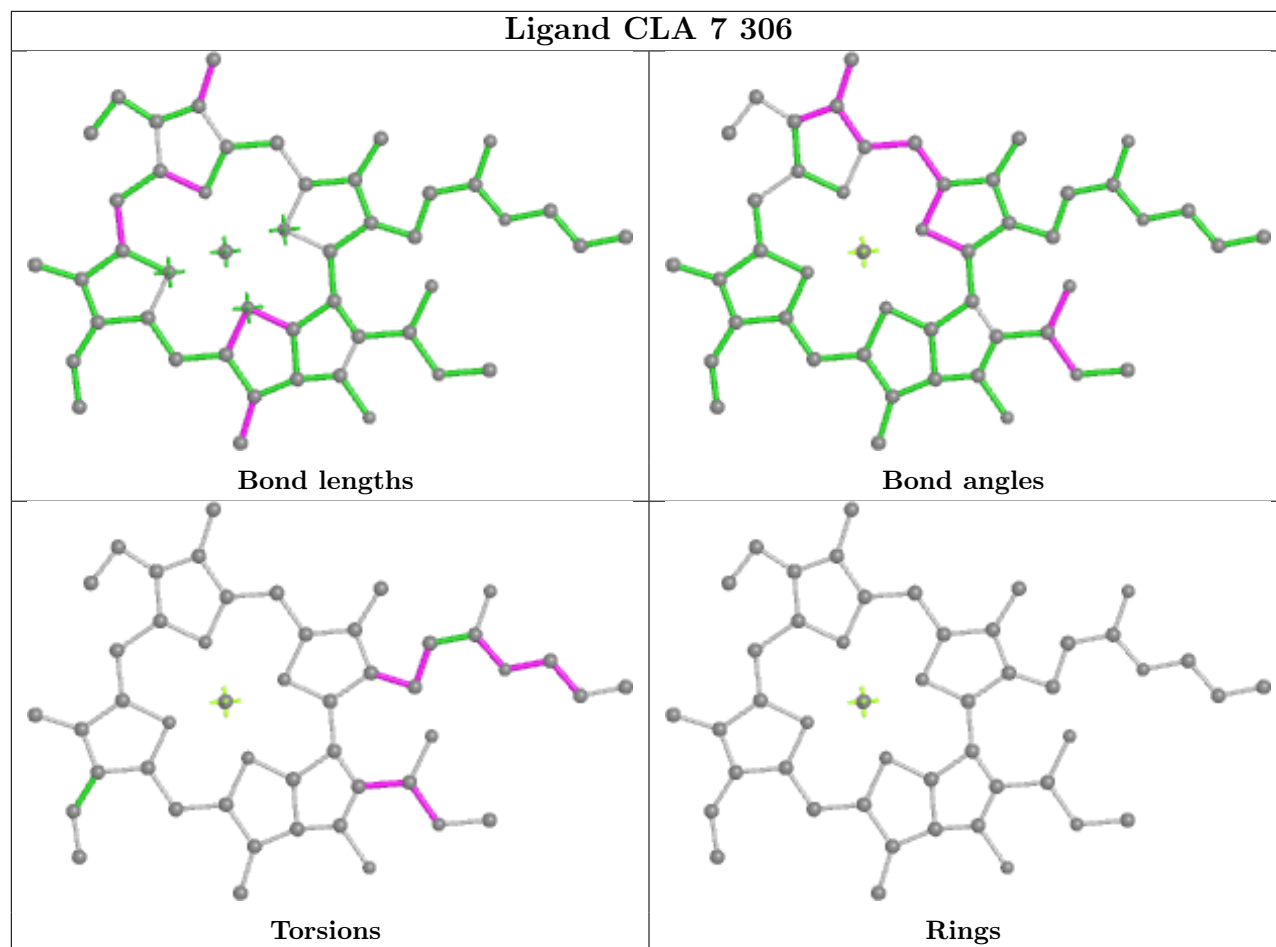
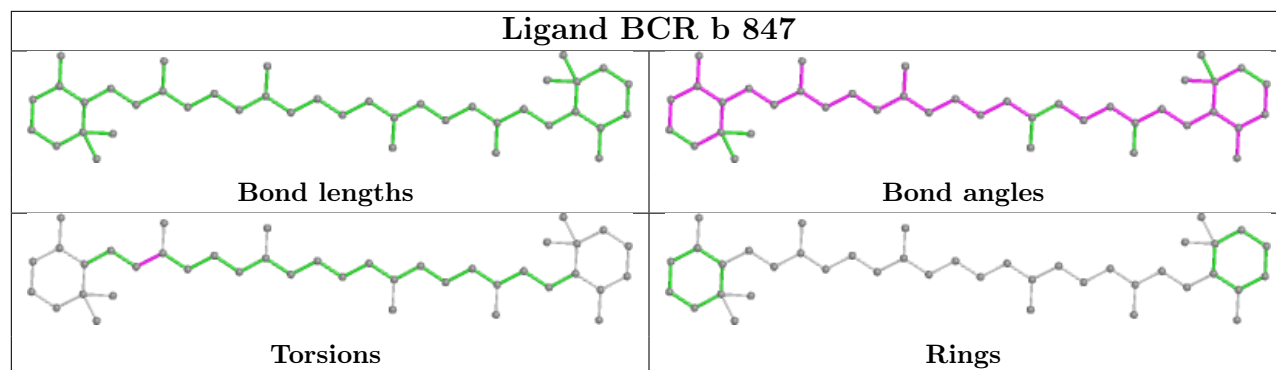
Bond angles

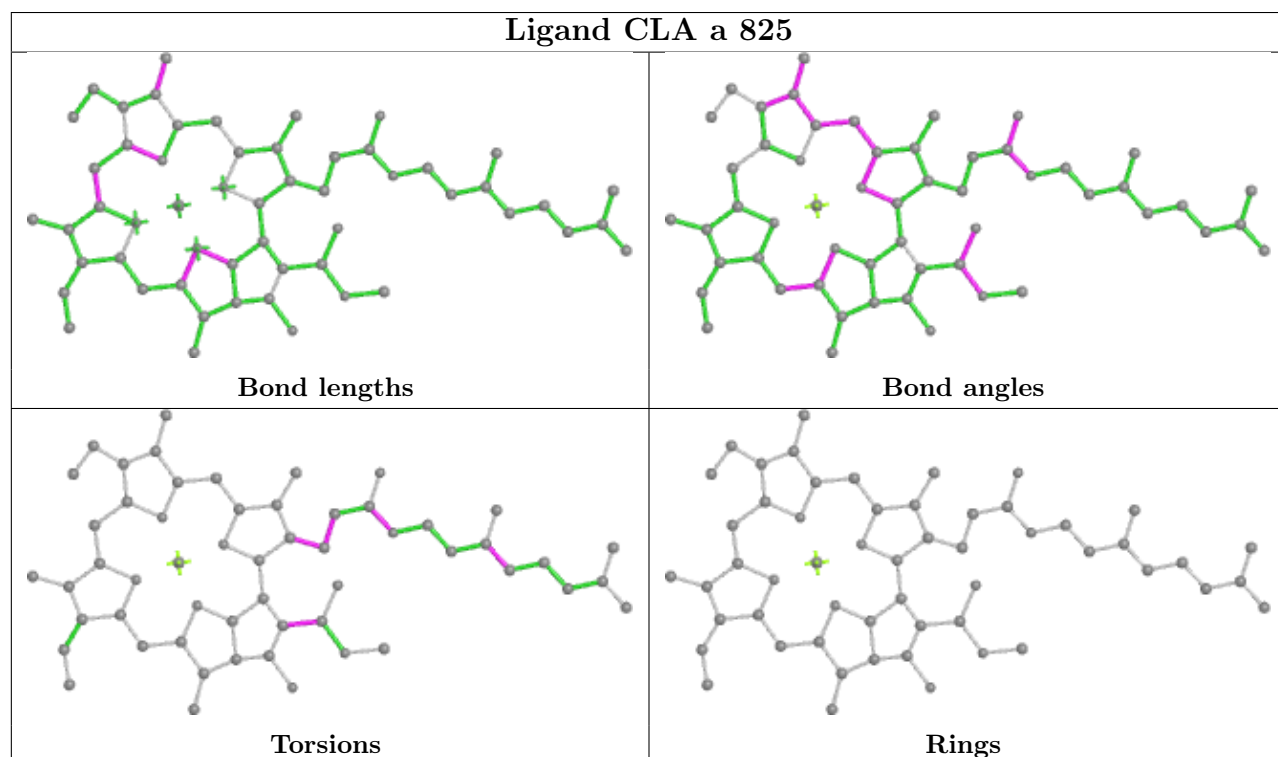
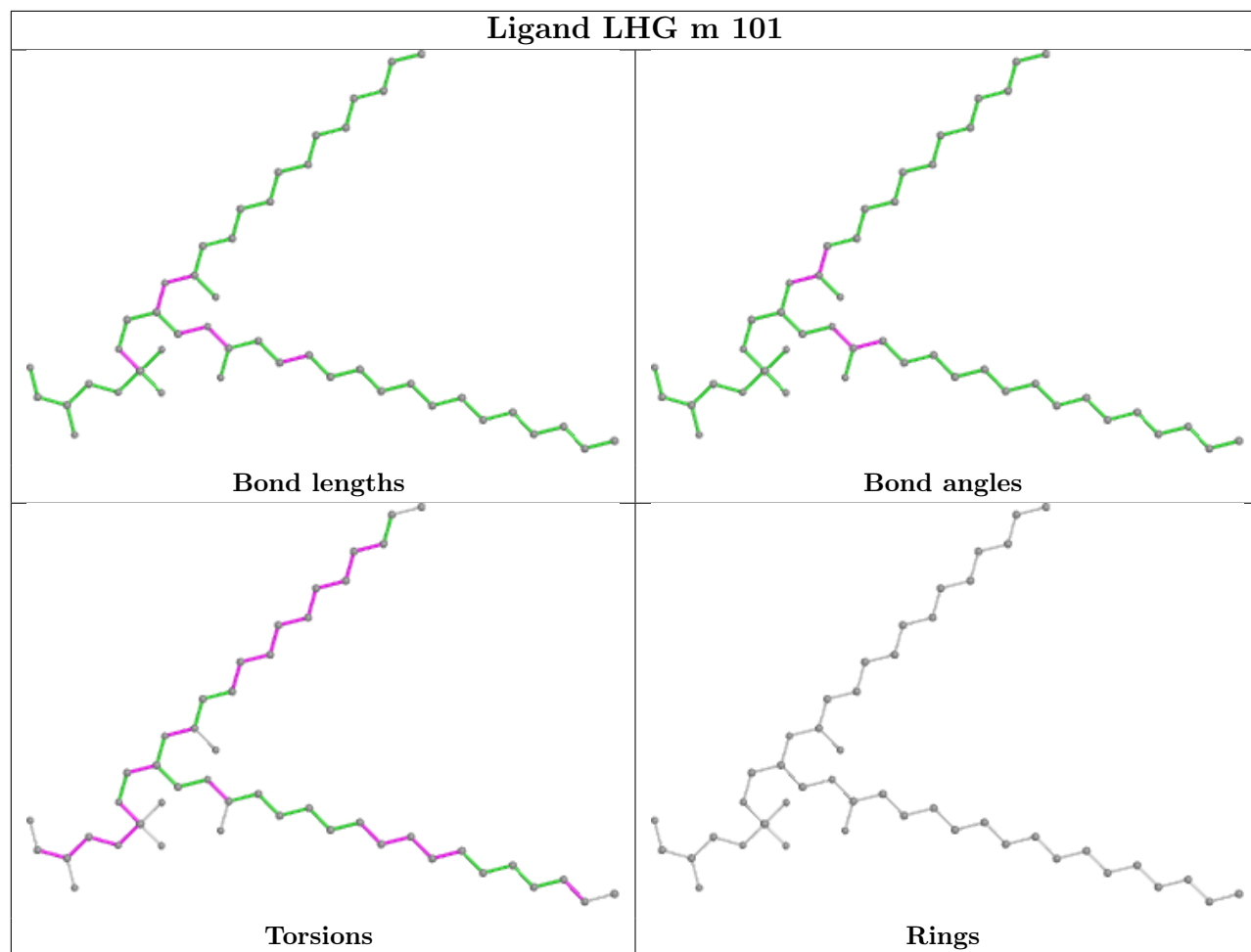


Torsions

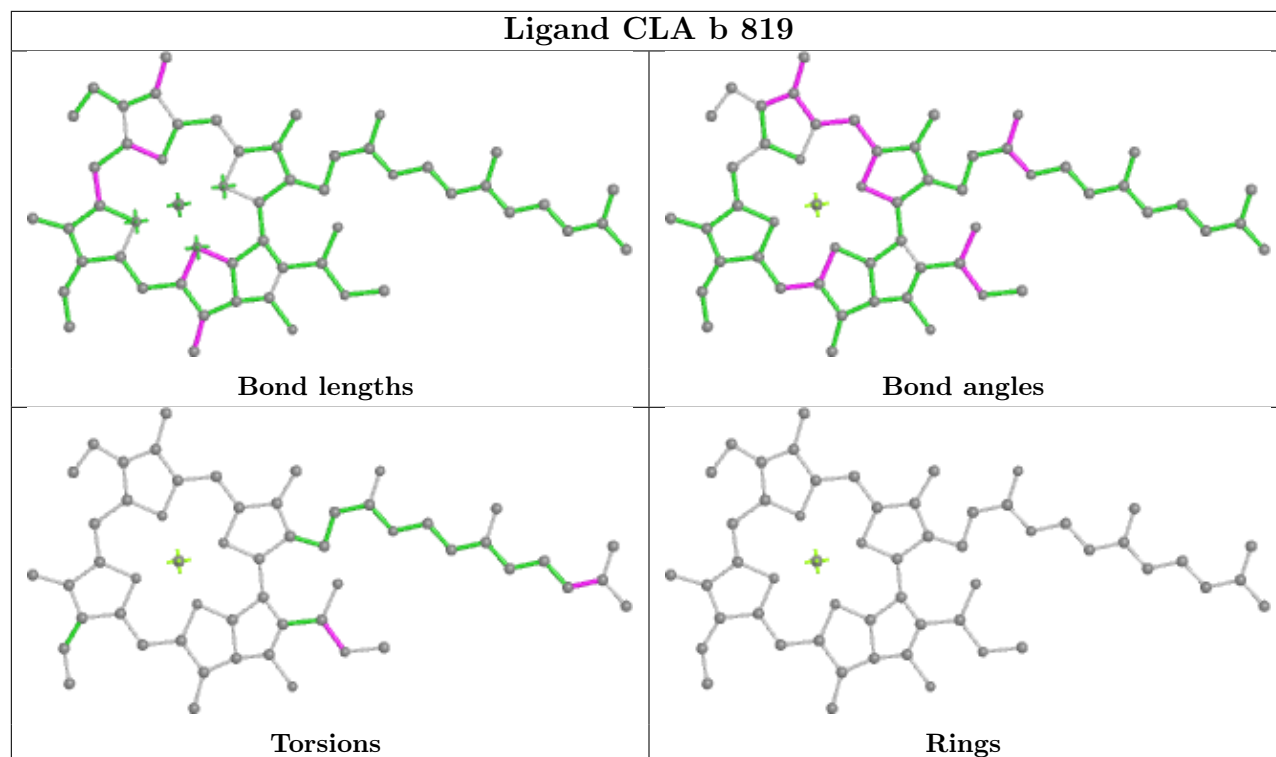


Rings

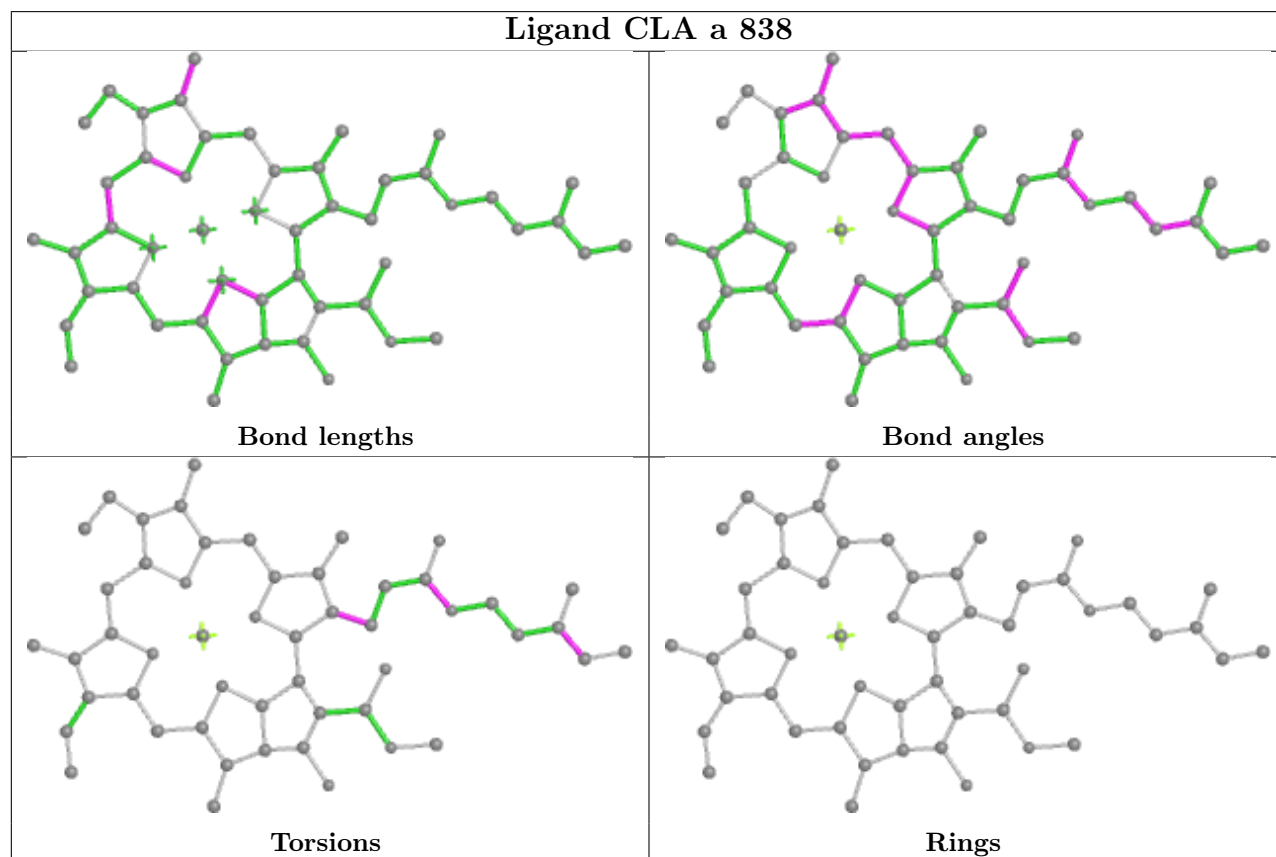


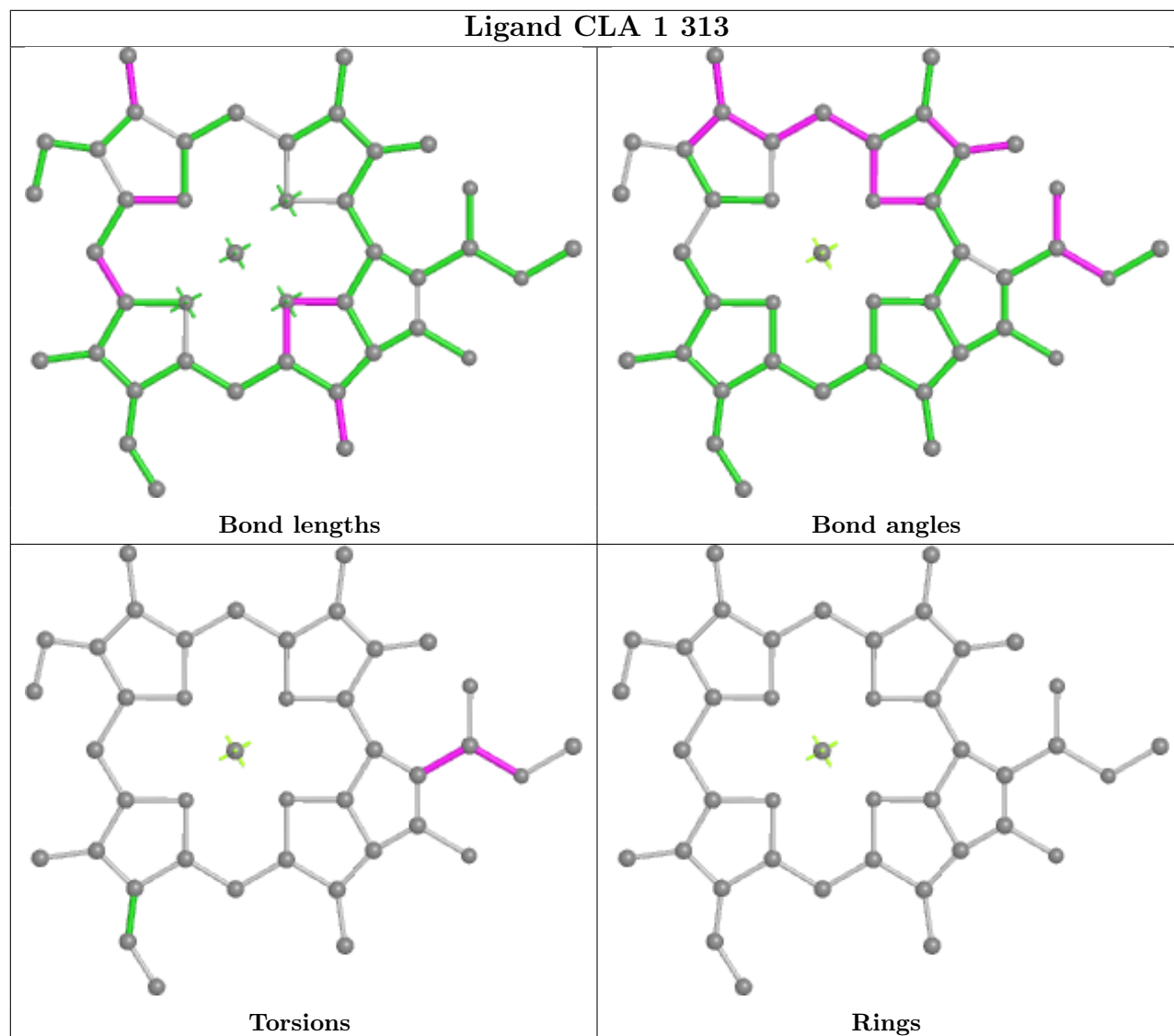
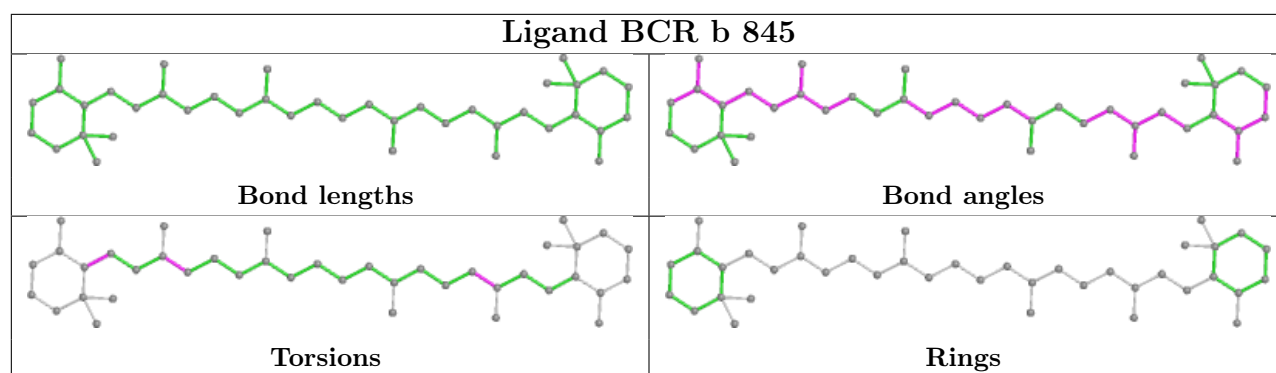


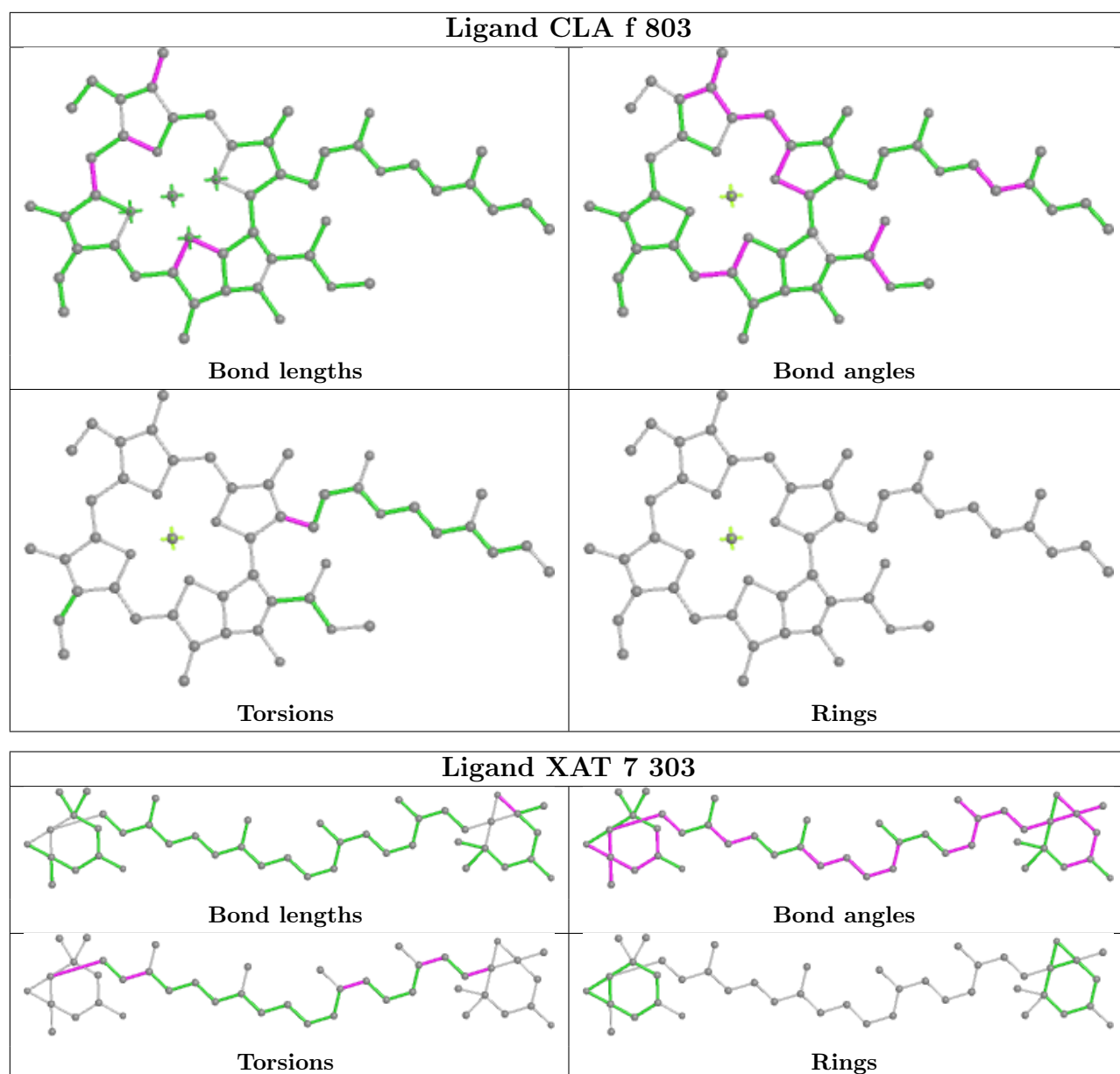
Ligand CLA b 819



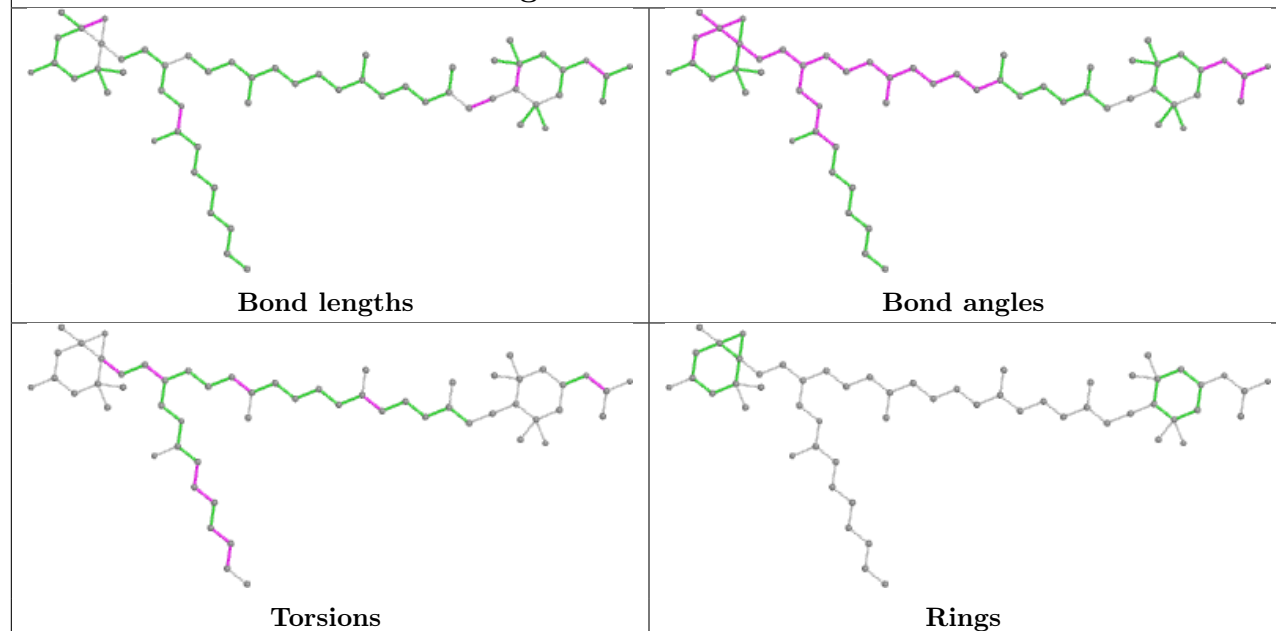
Ligand CLA a 838



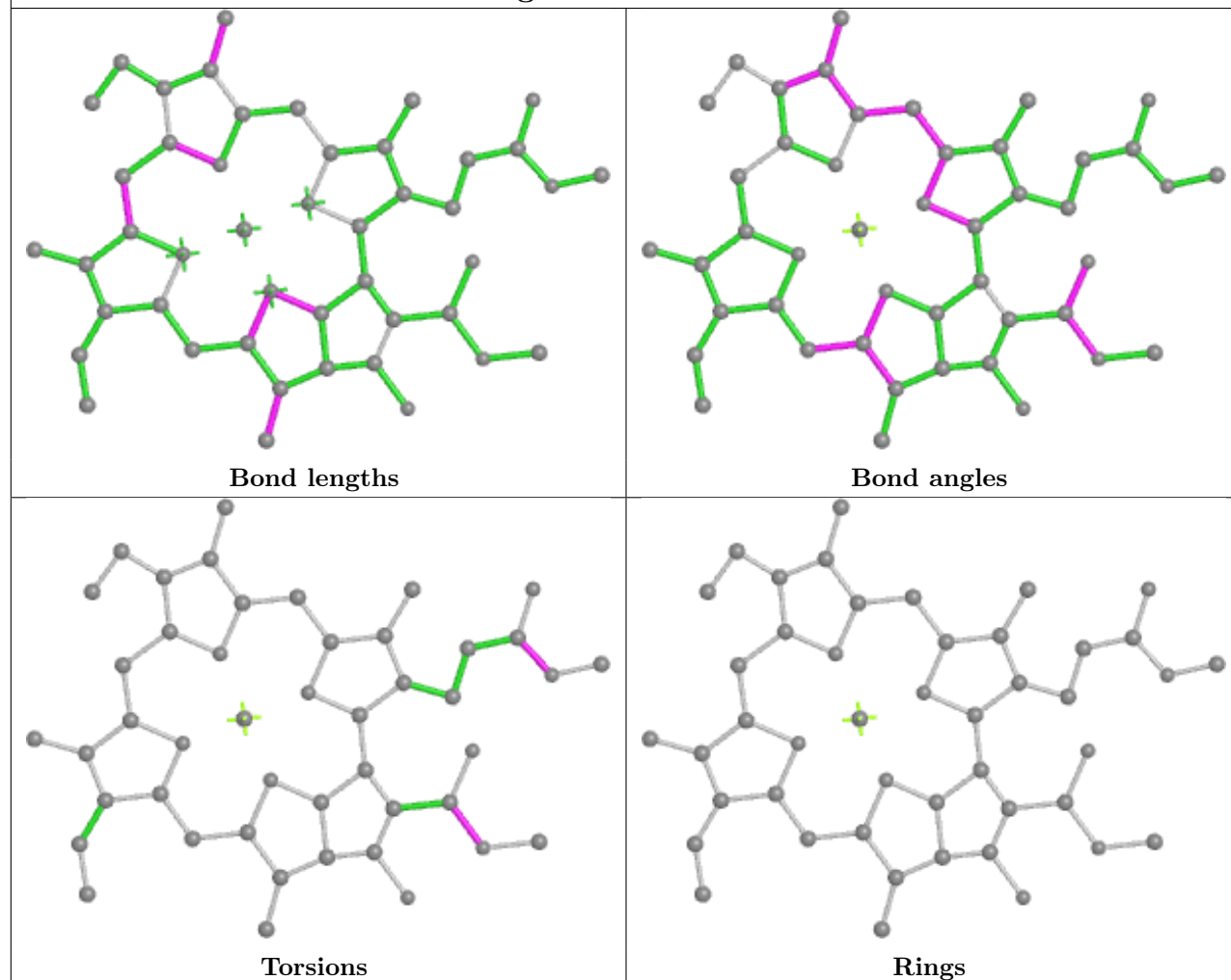


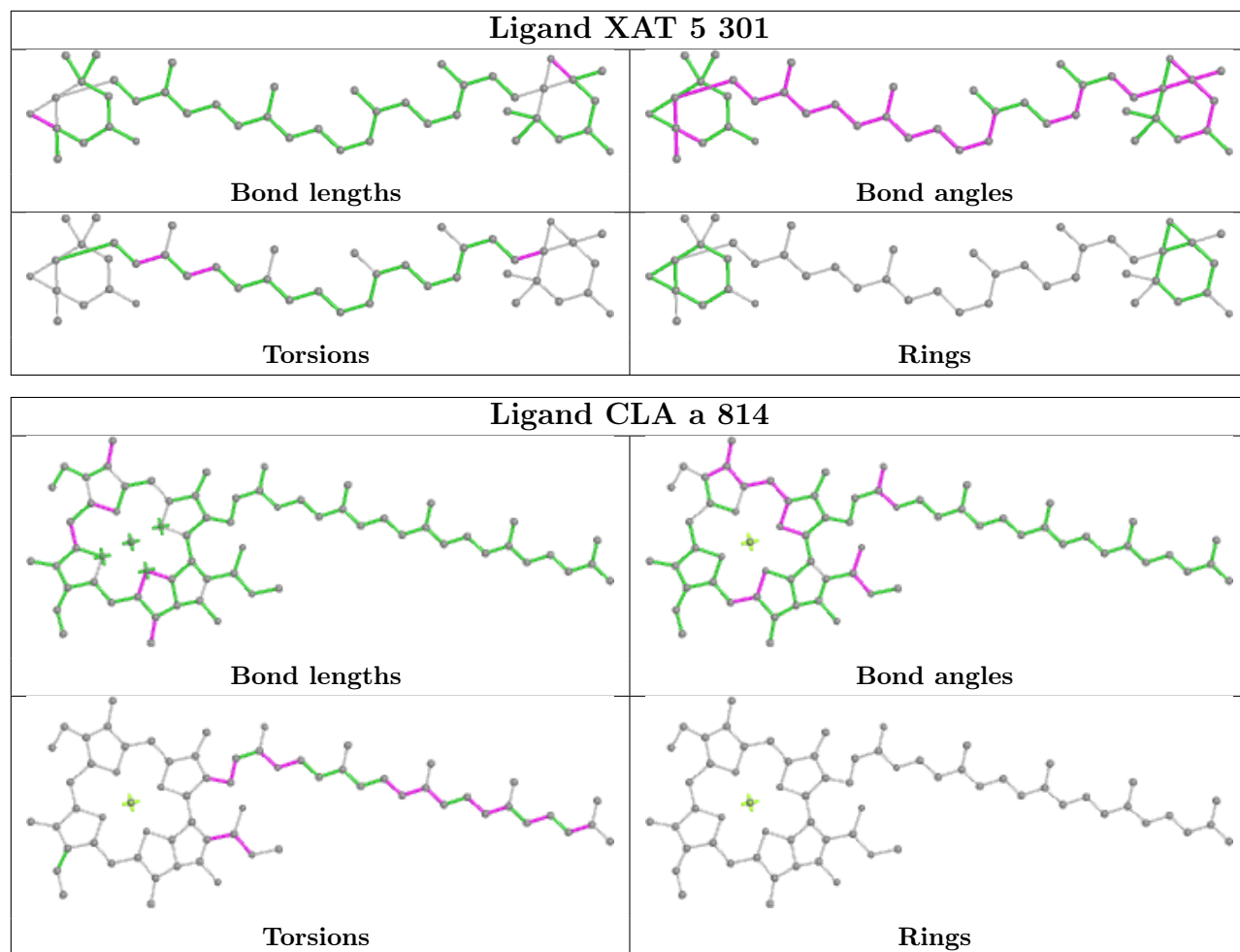


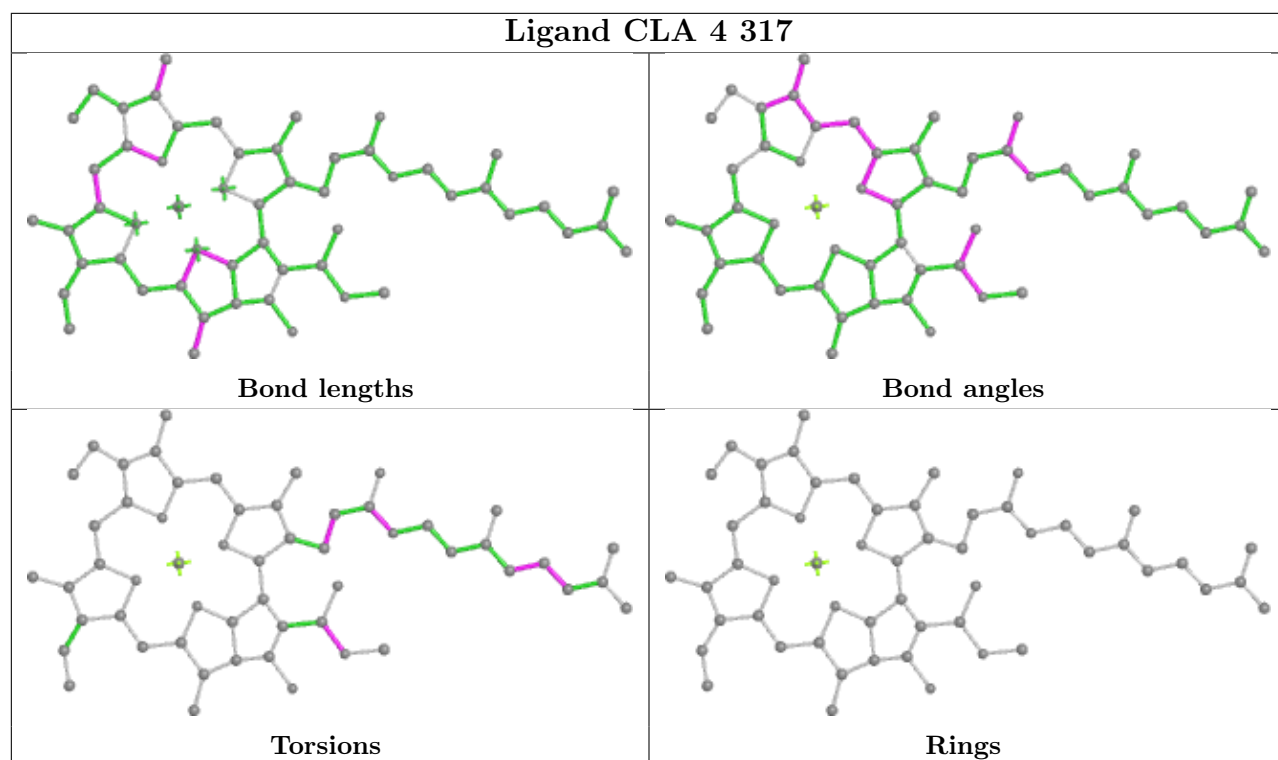
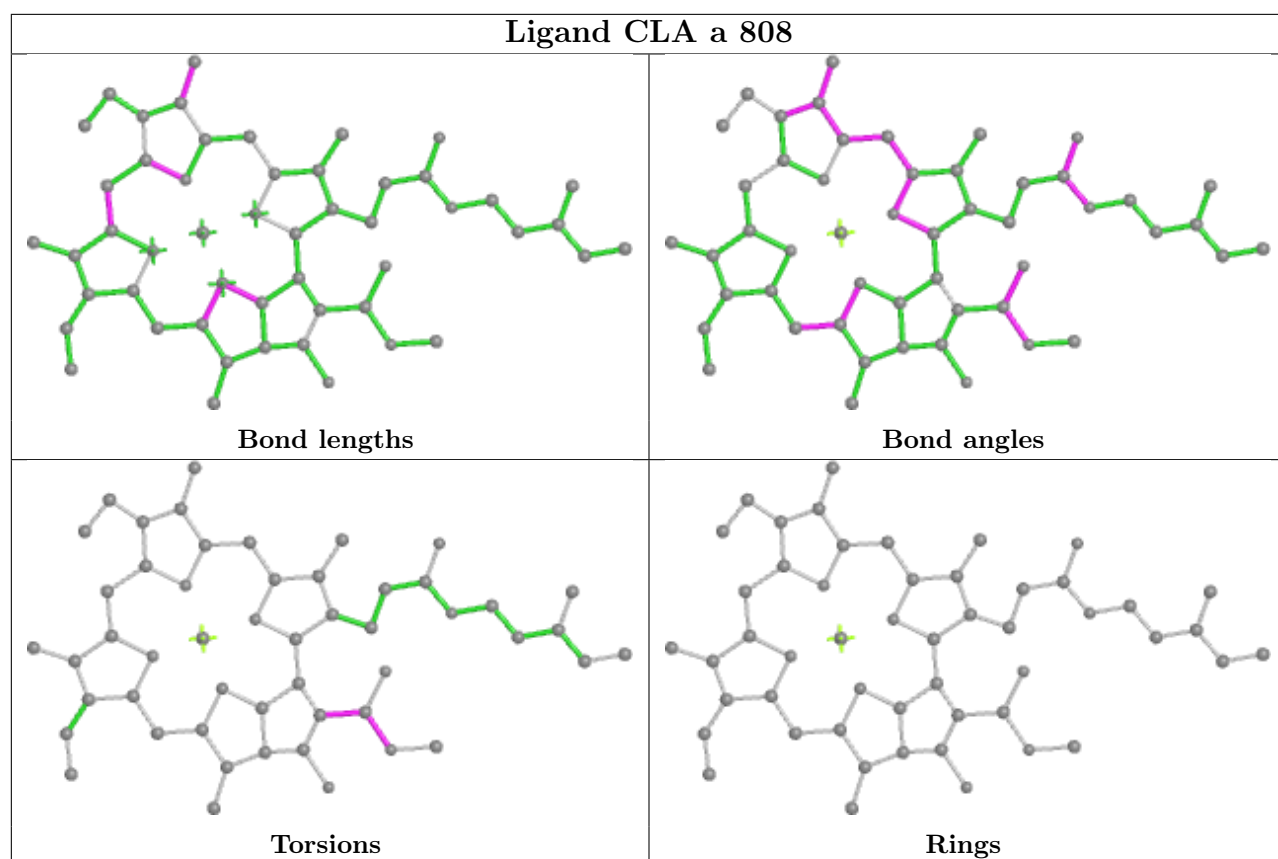
Ligand A1L1F 1 304



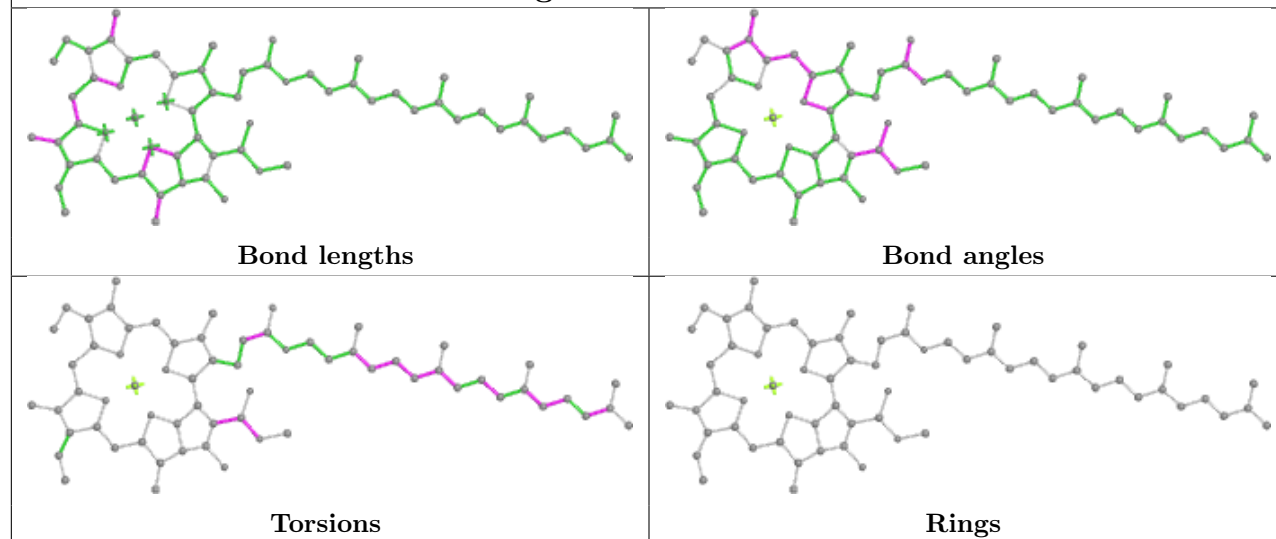
Ligand CLA 5 306



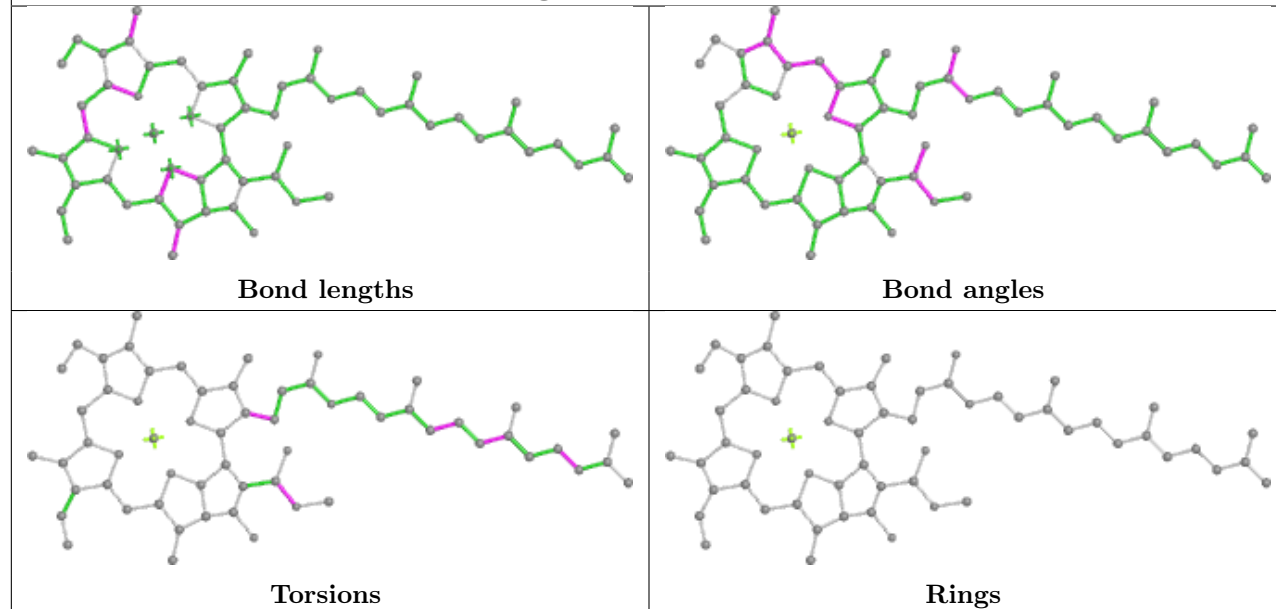




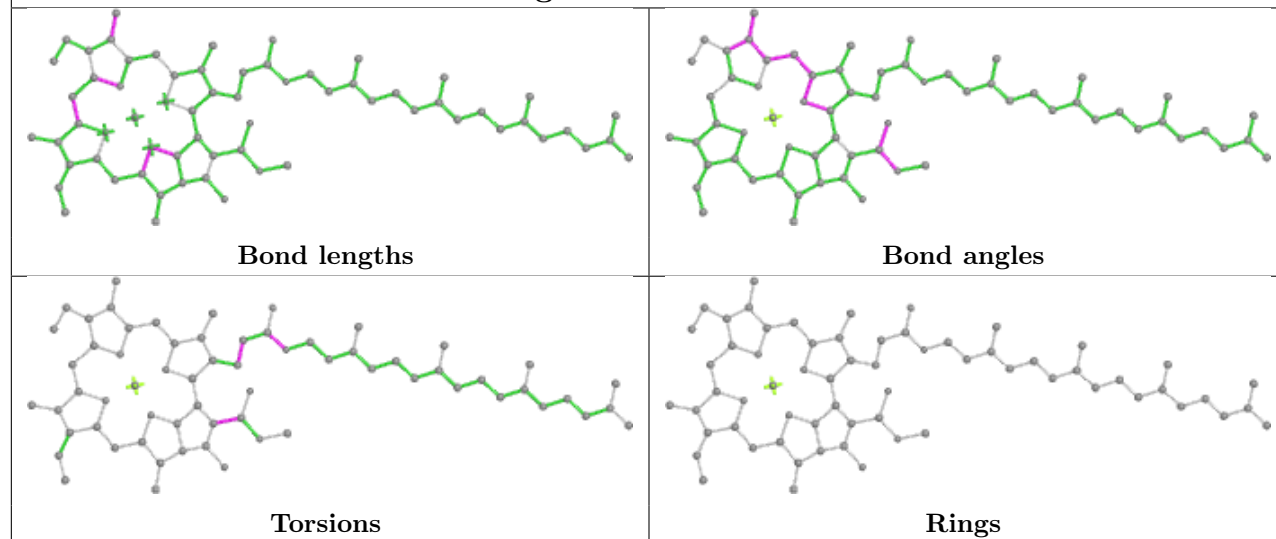
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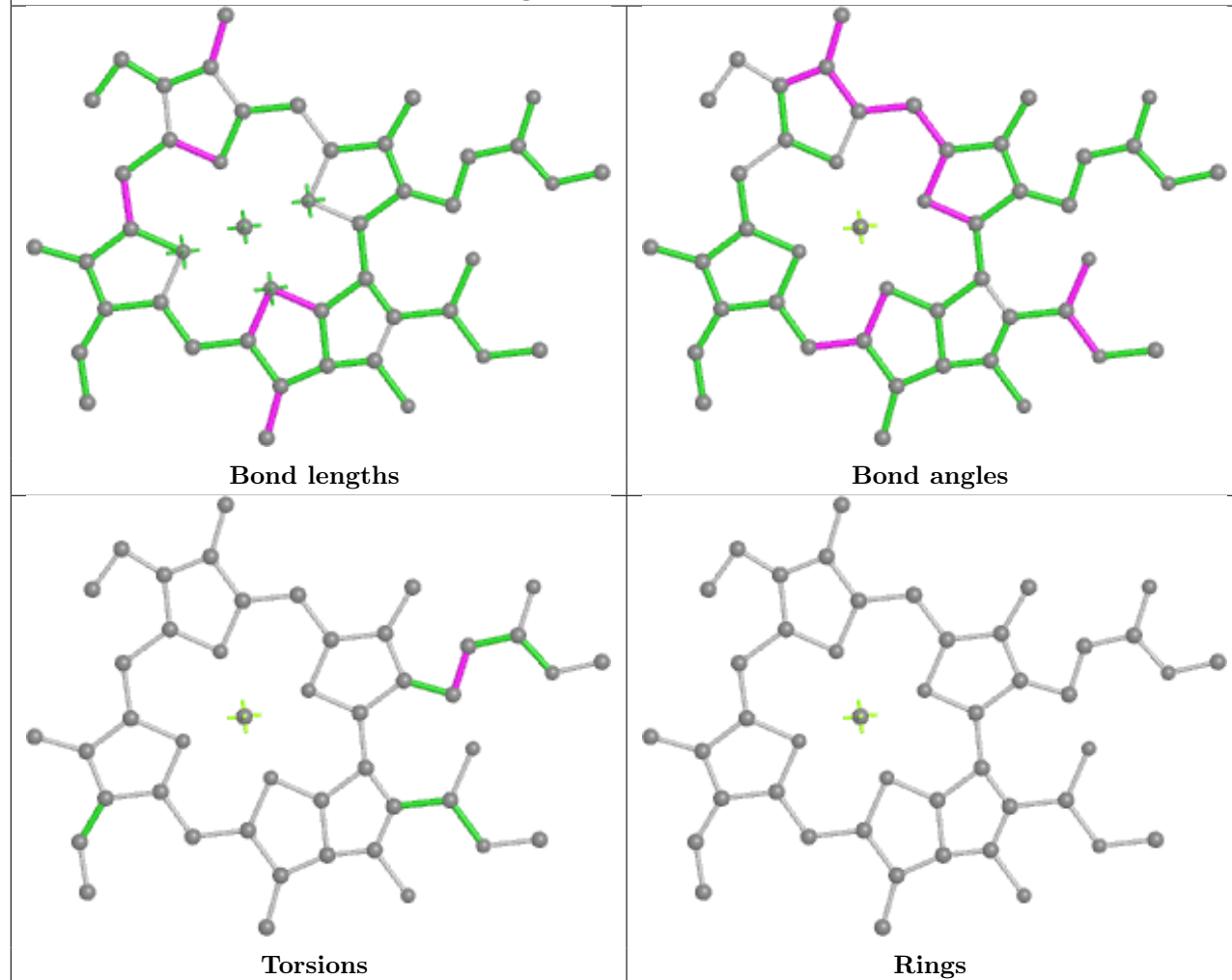
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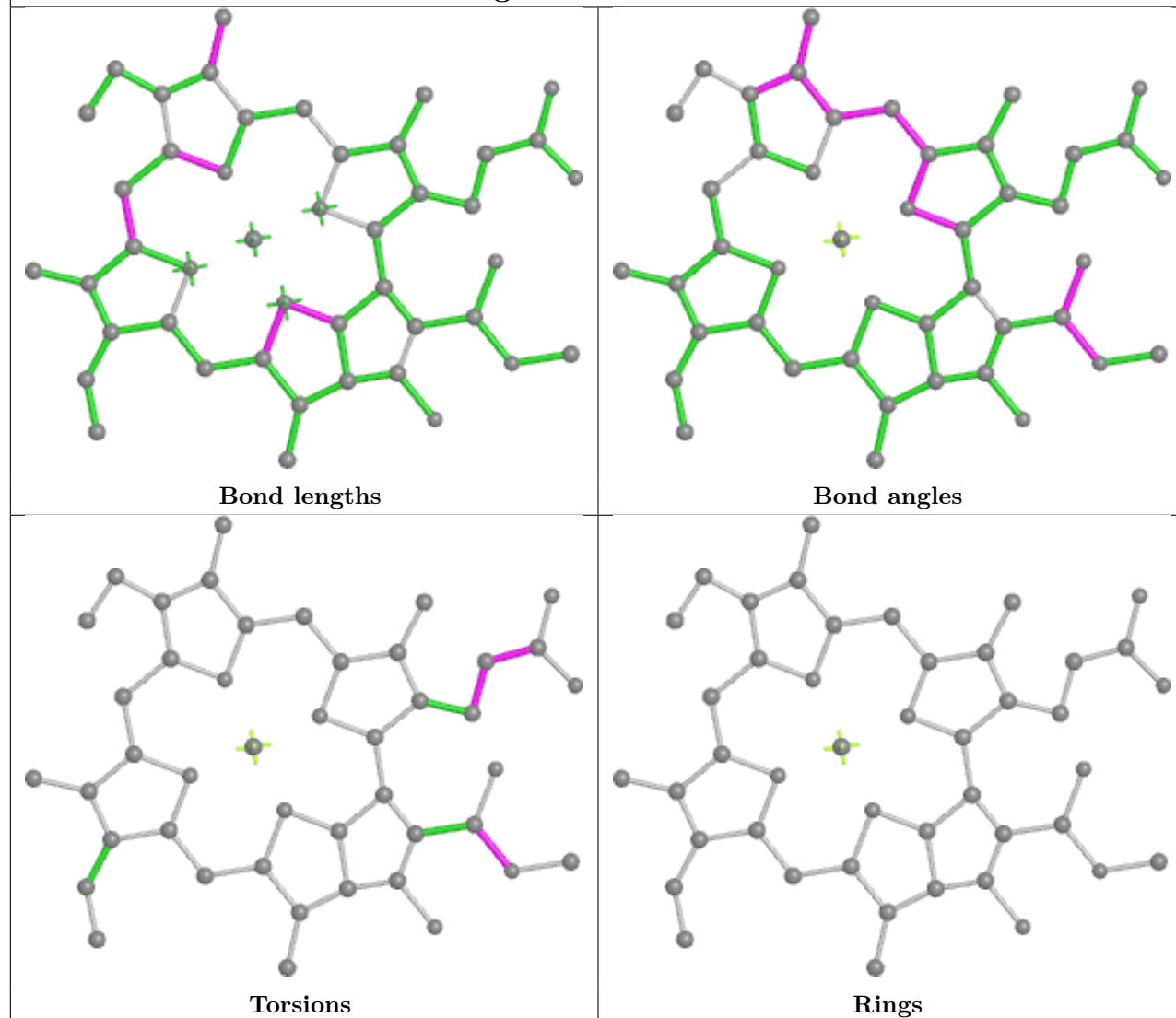
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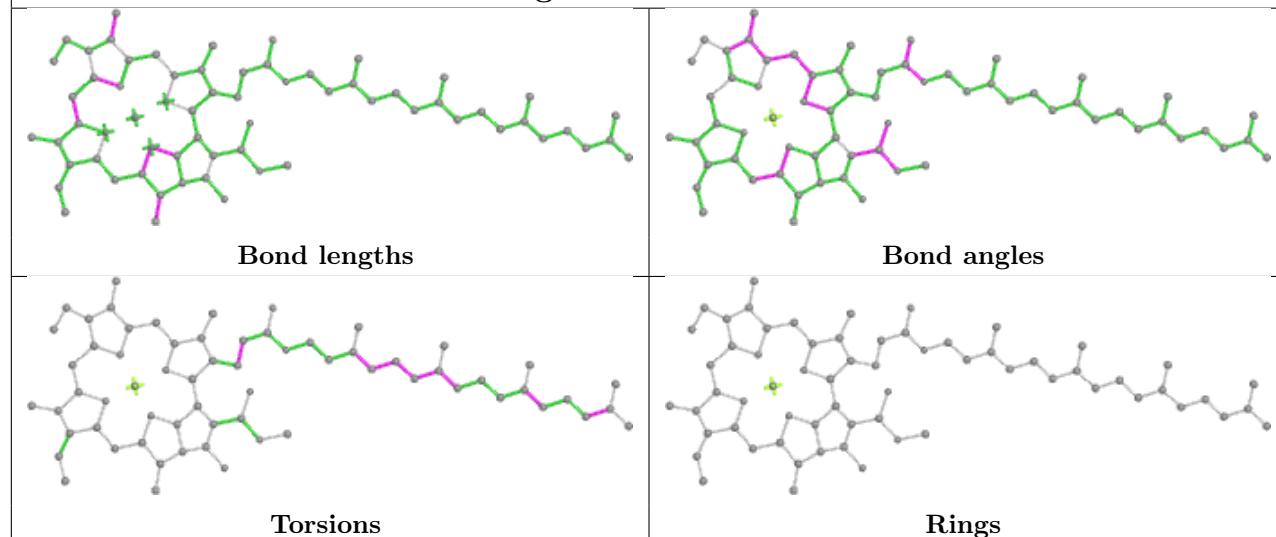
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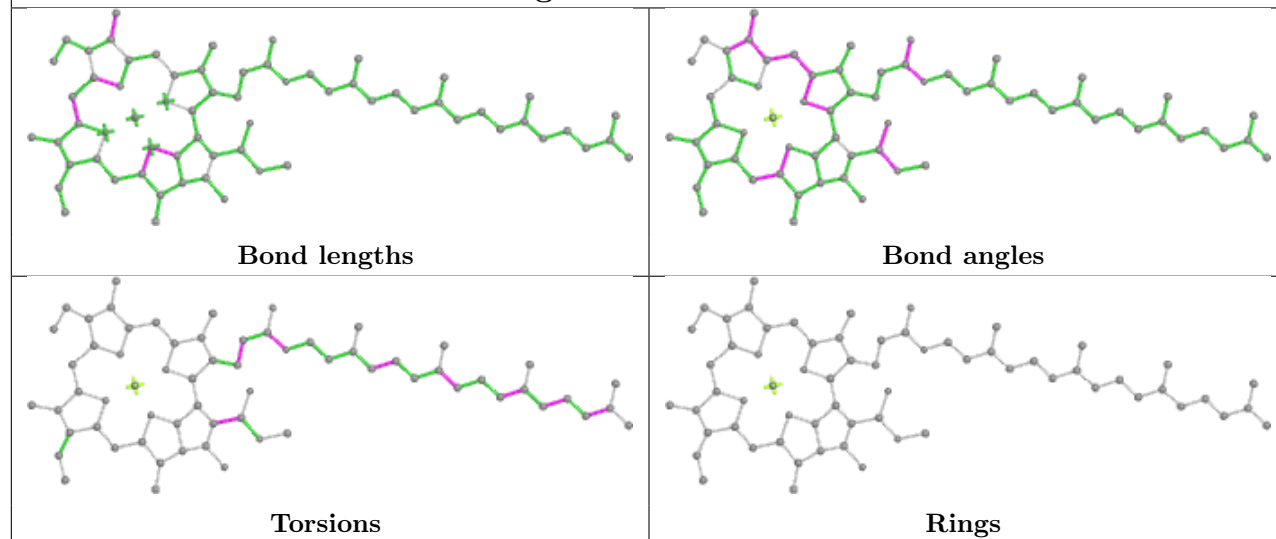
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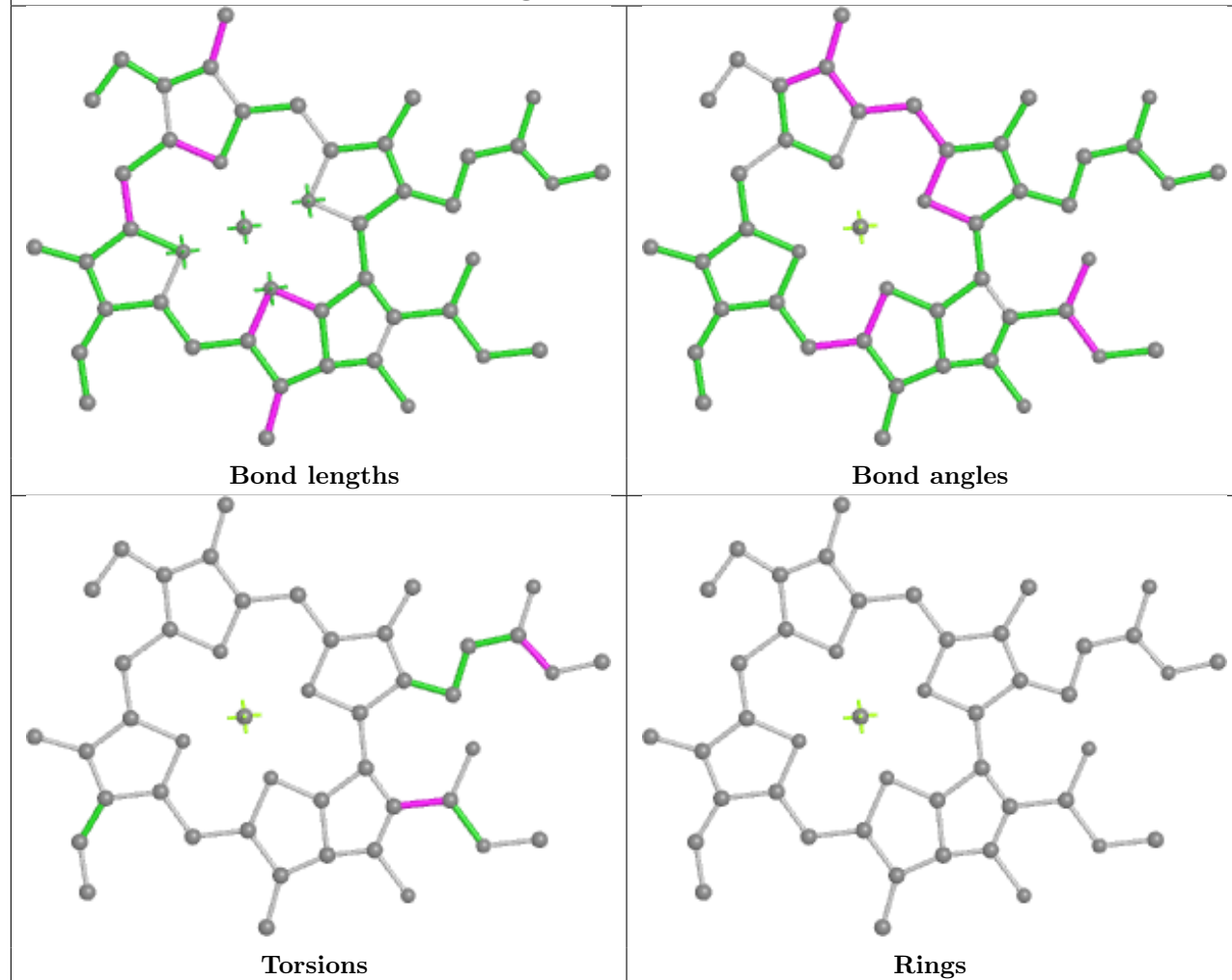
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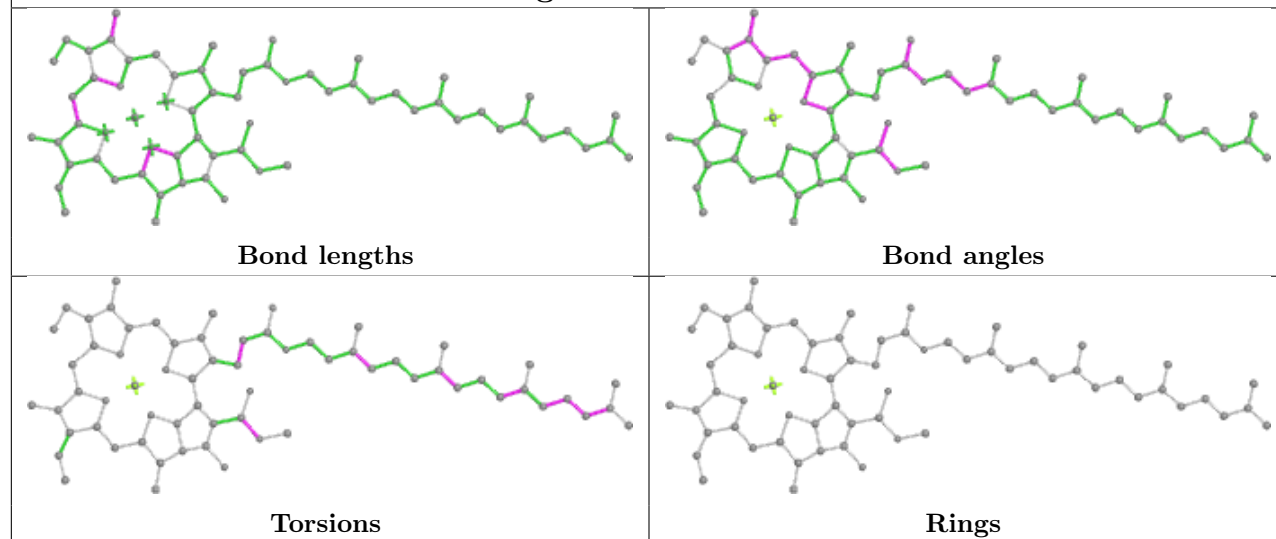
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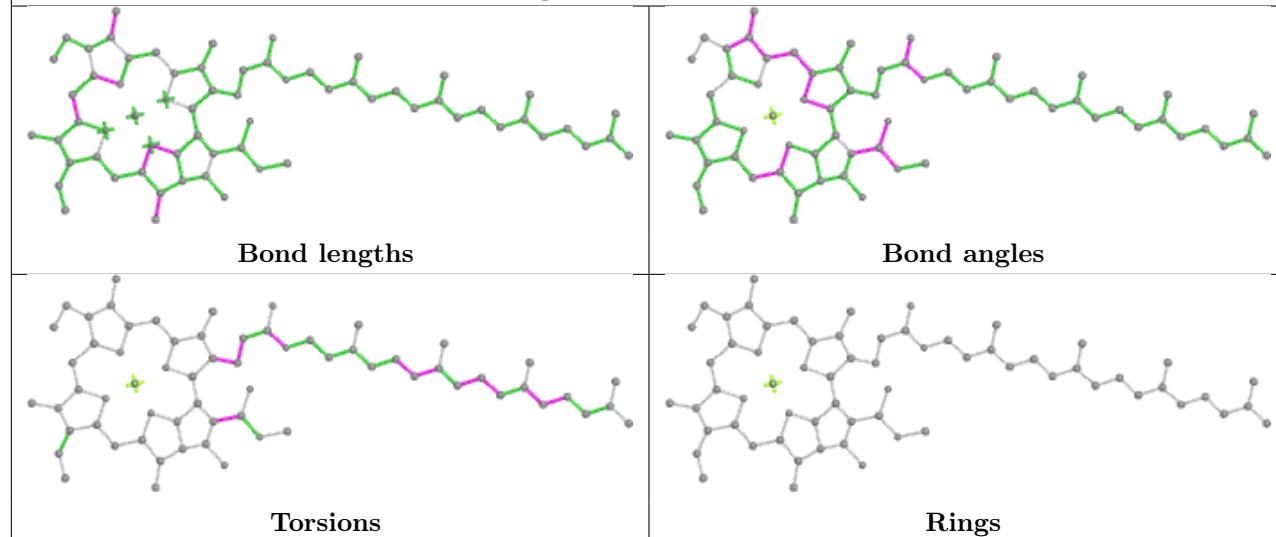
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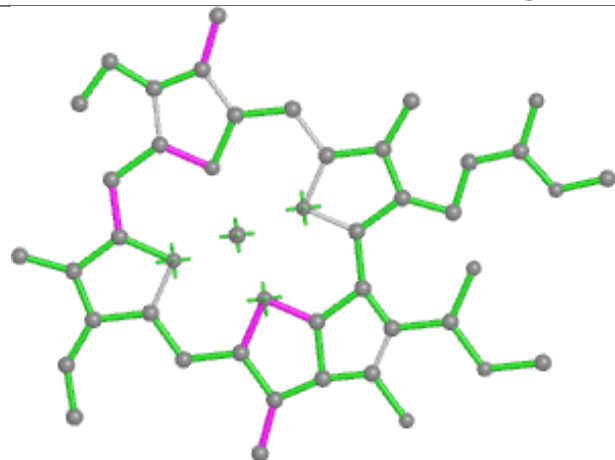
Ligand CLA 1 308



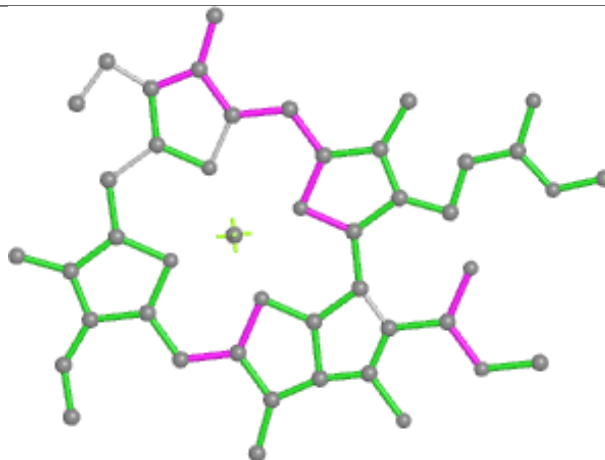
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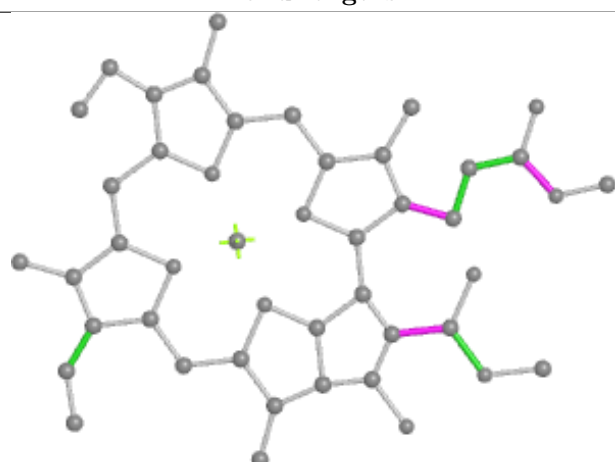
Ligand CLA a 824



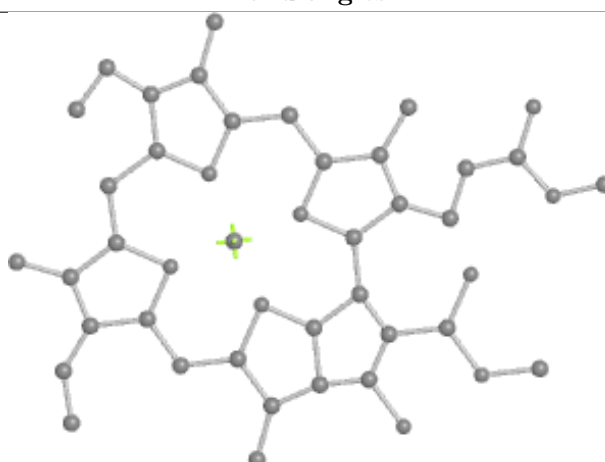
Bond lengths



Bond angles

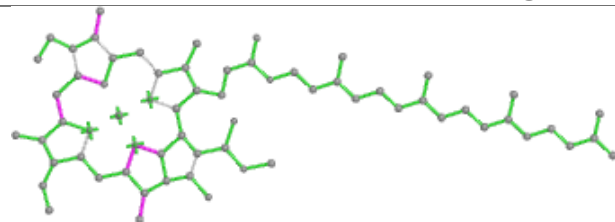


Torsions

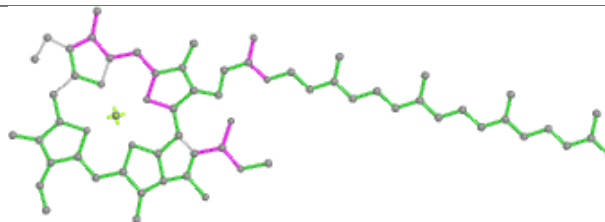


Rings

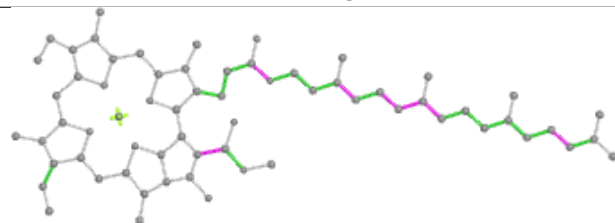
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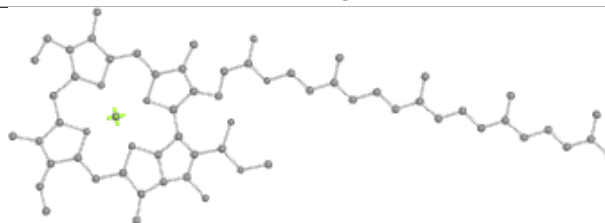
Bond lengths



Bond angles

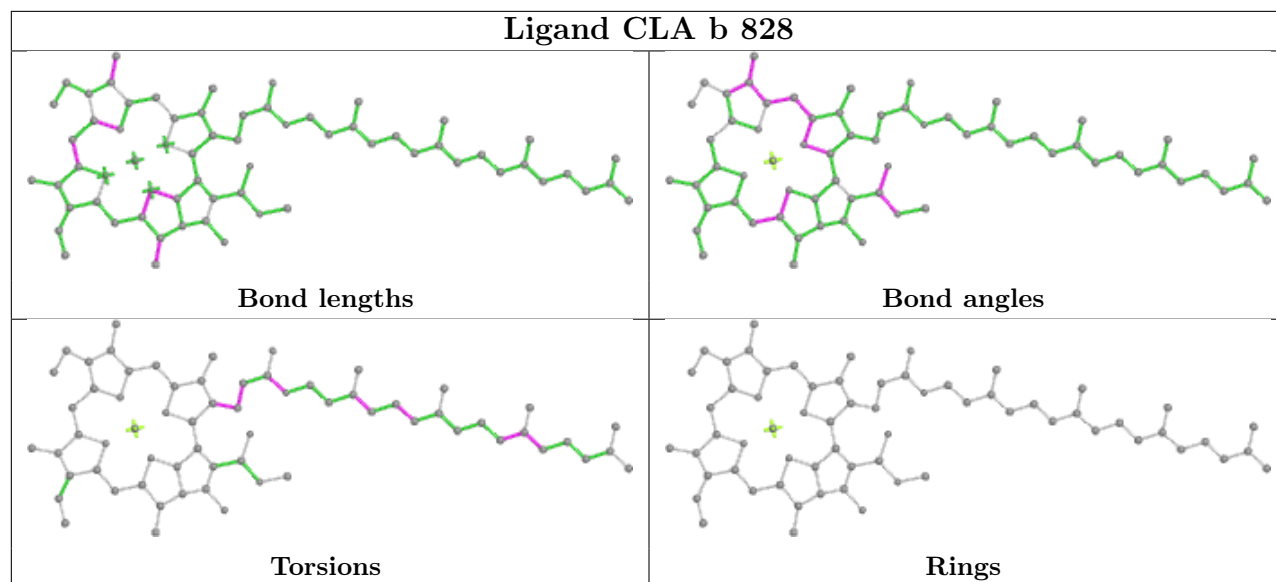


Torsions

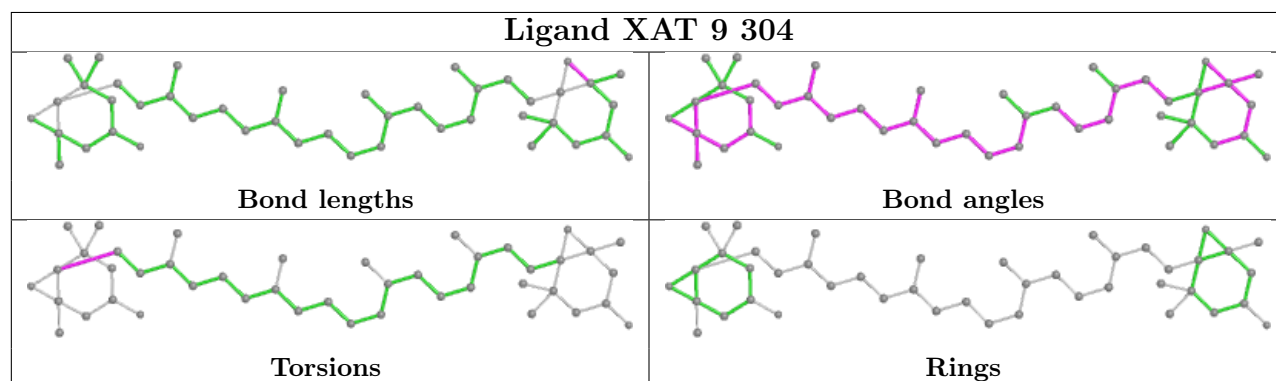


Rings

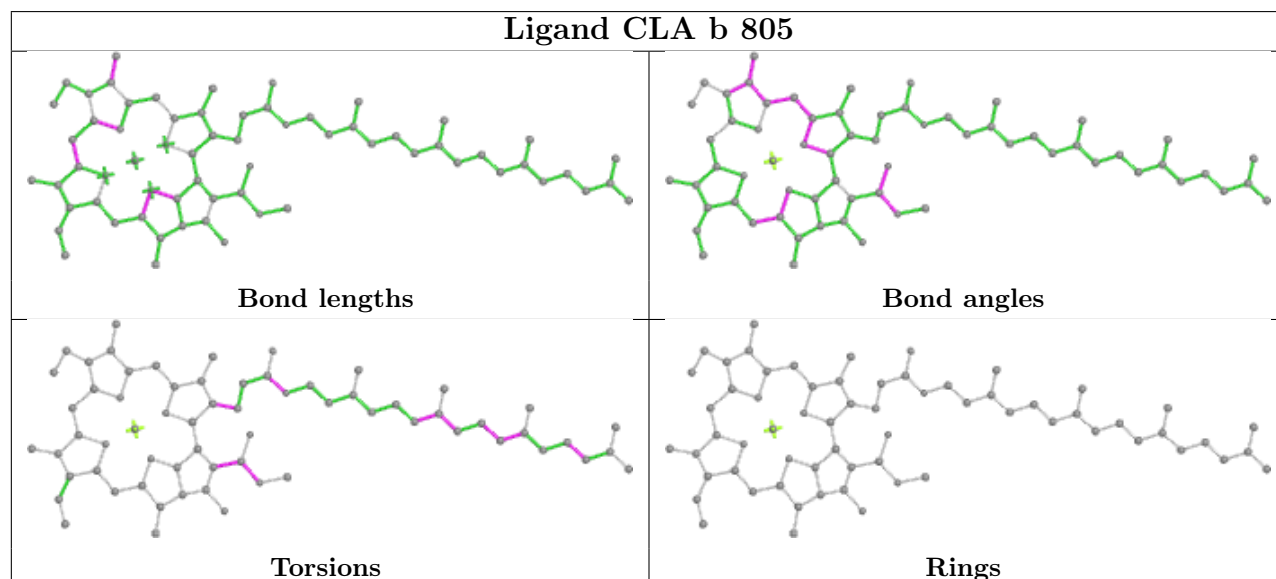
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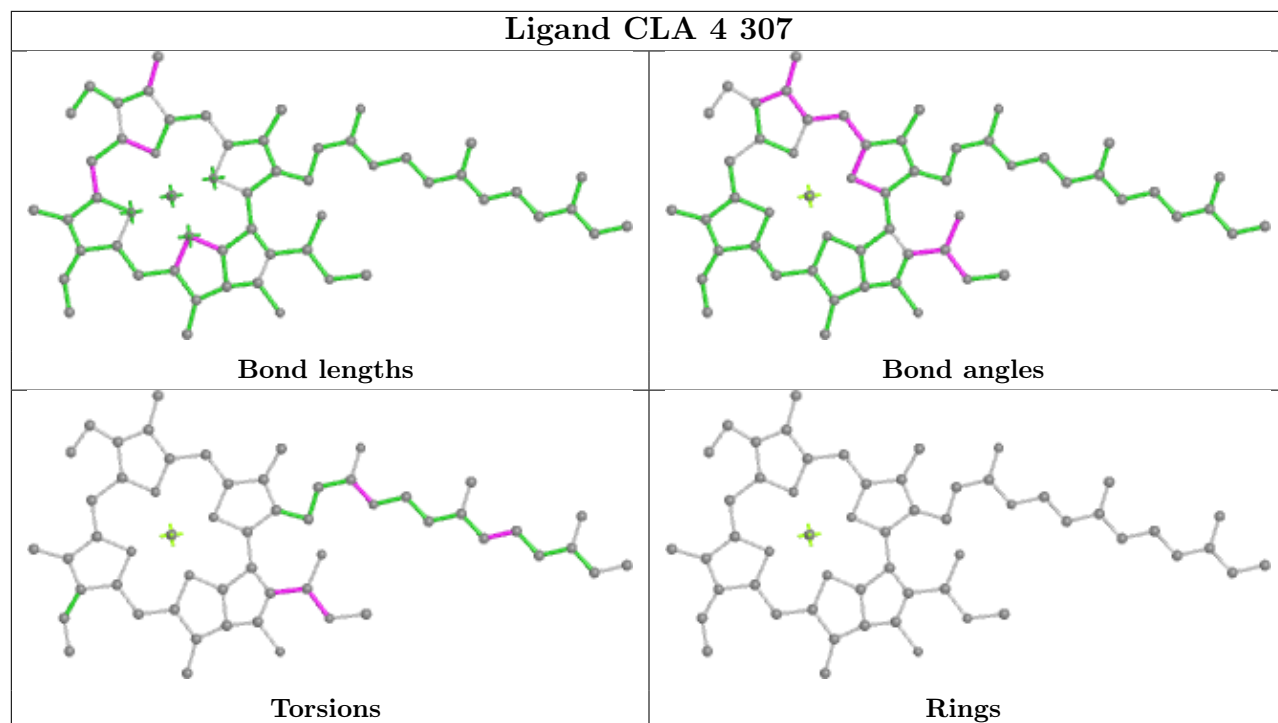


Ligand XAT 9 304

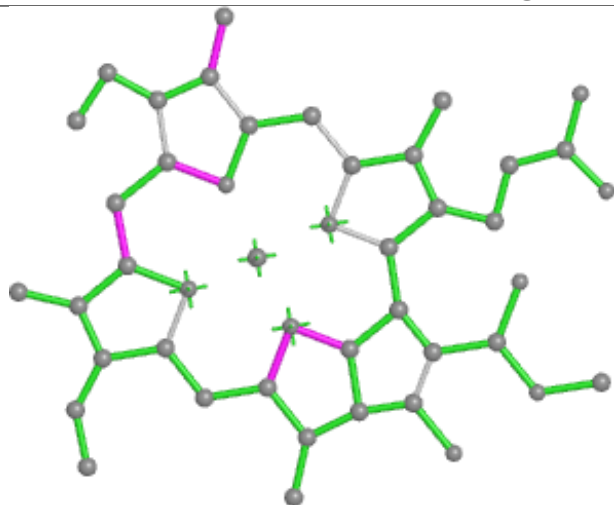


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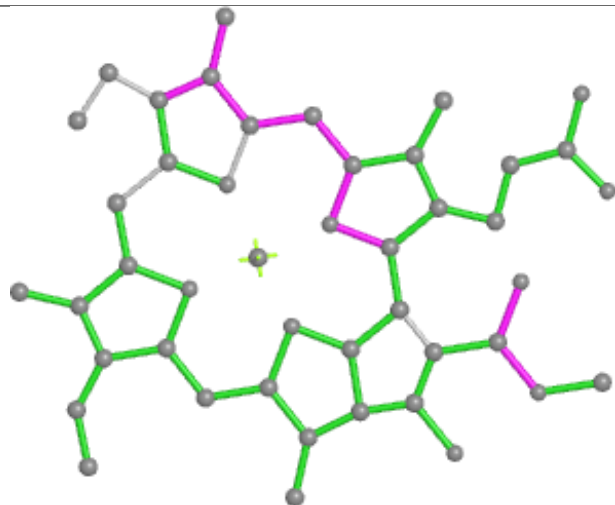




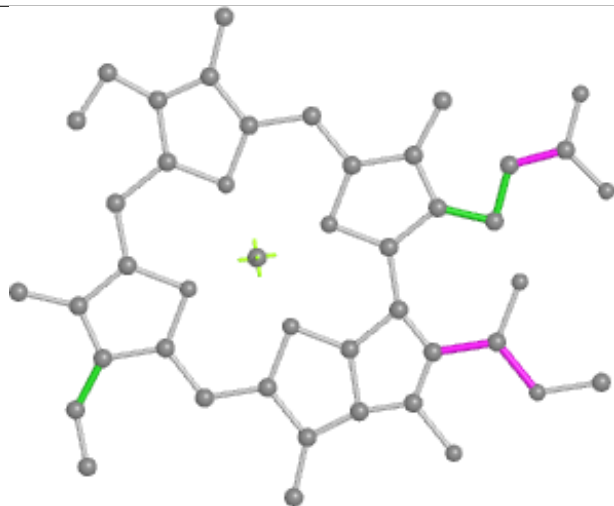
Ligand CLA 5 314



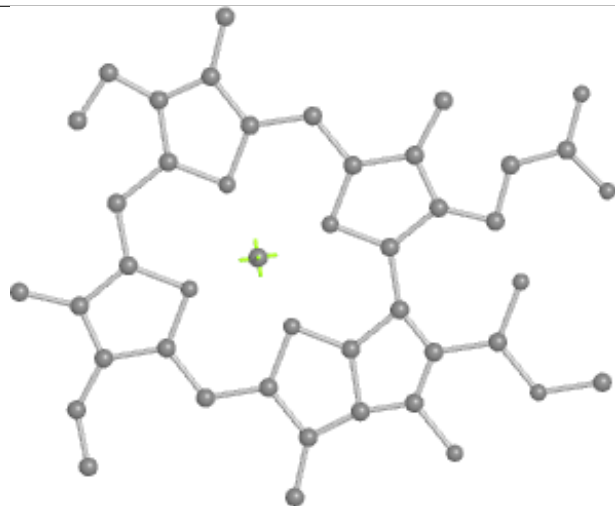
Bond lengths



Bond angles

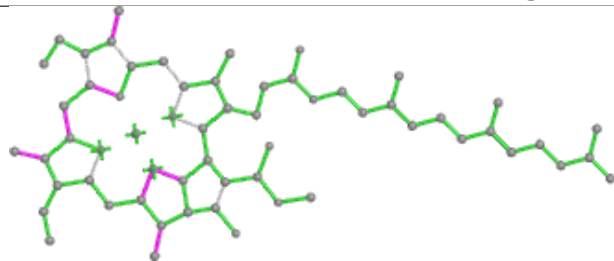


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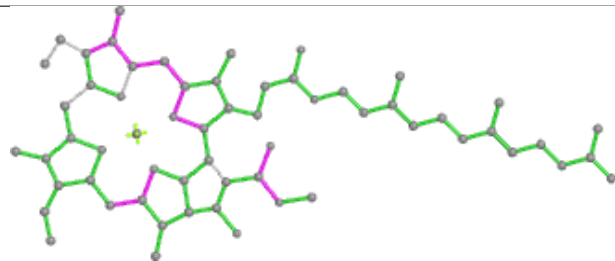


Rings

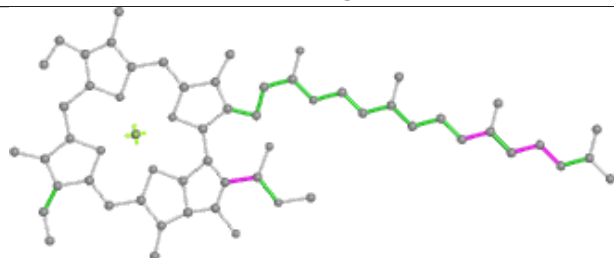
Ligand CLA 1 202



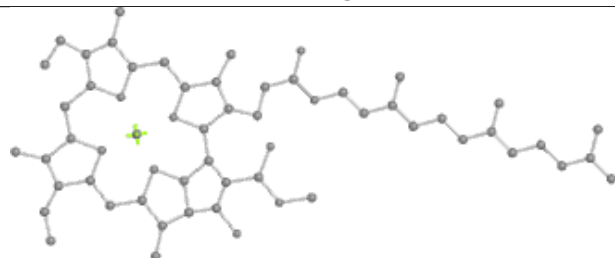
Bond lengths



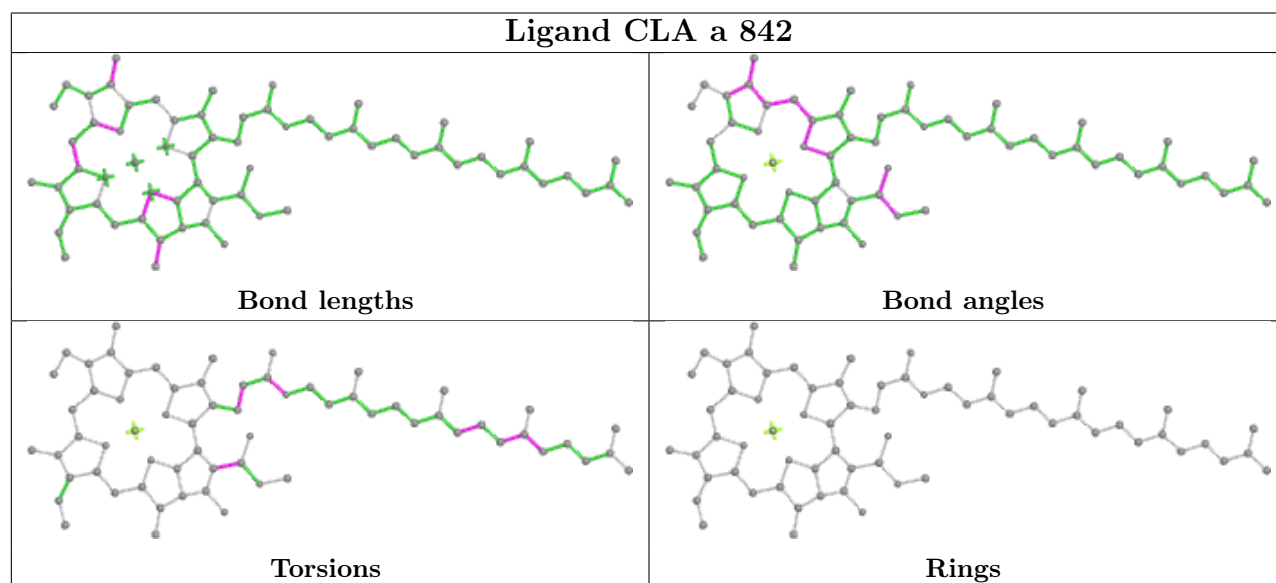
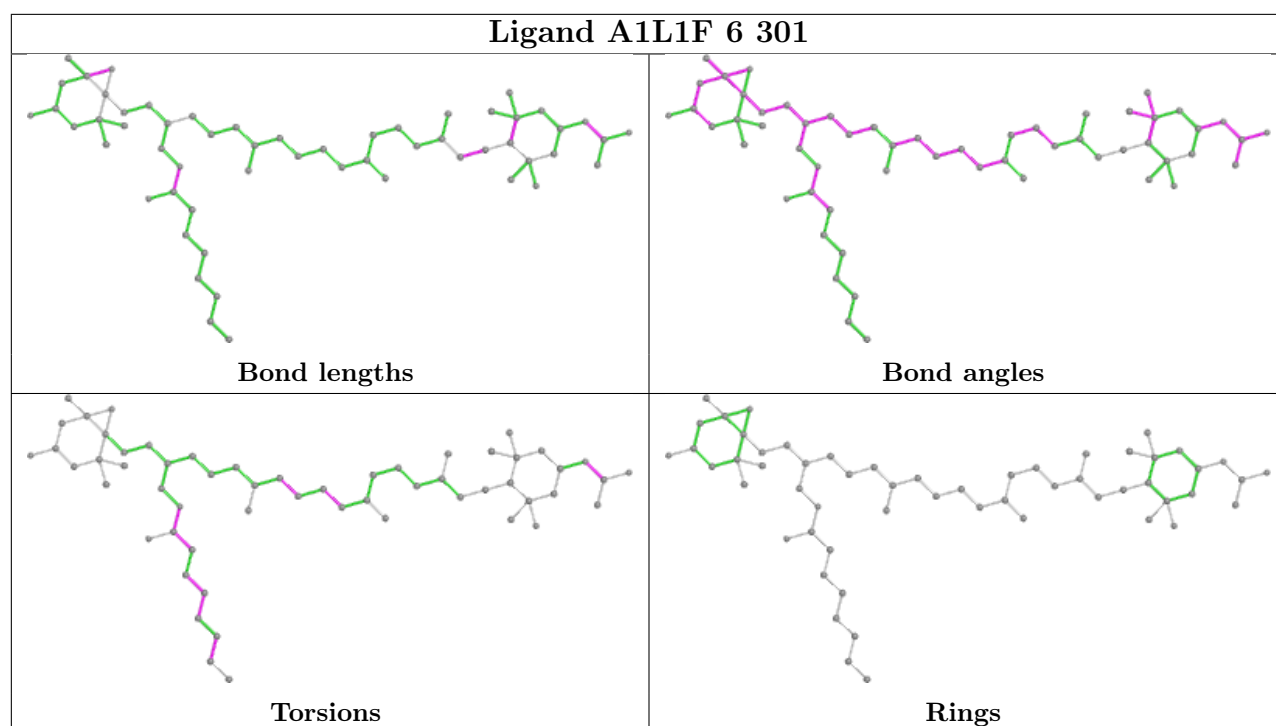
Bond angles

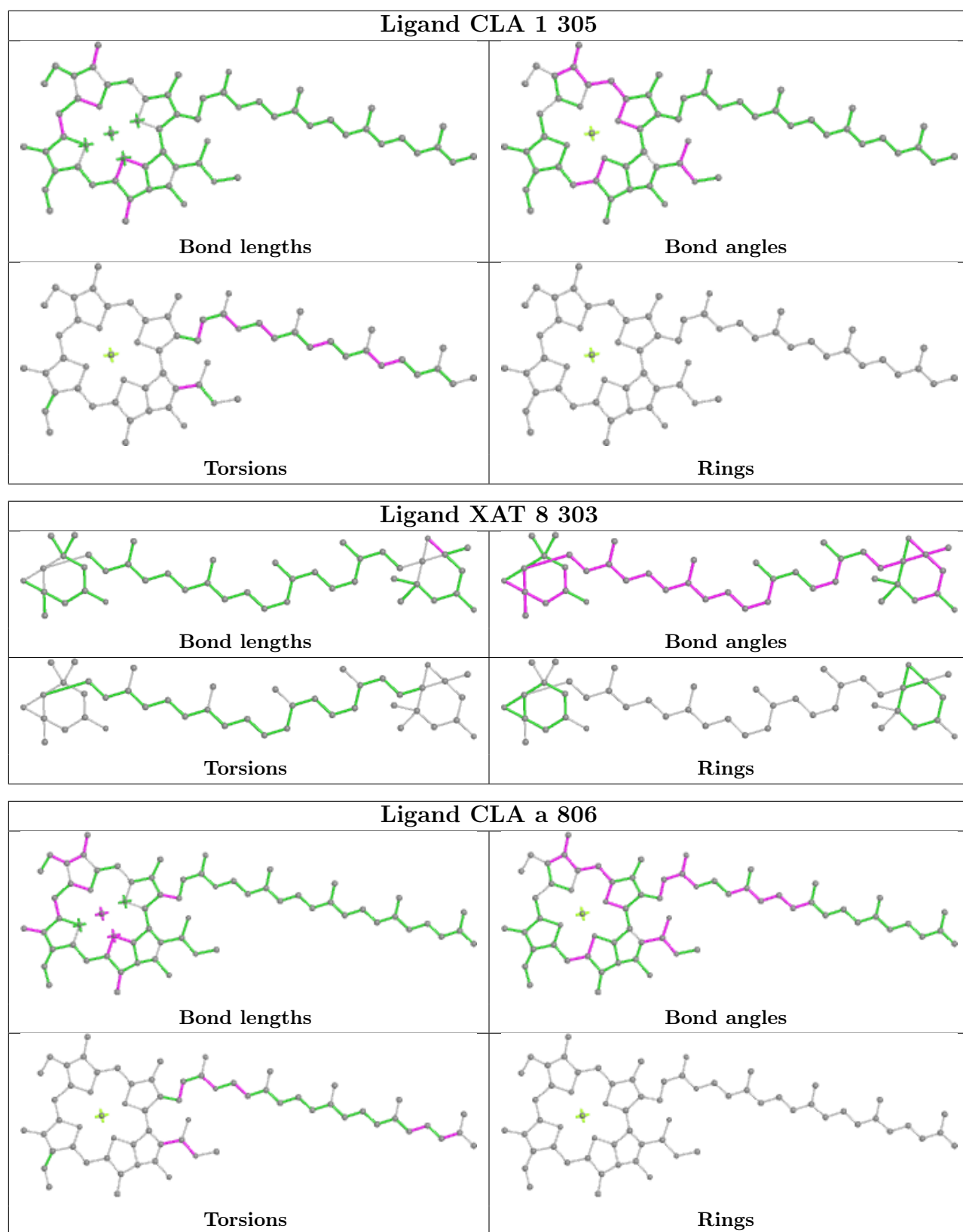


Torsions

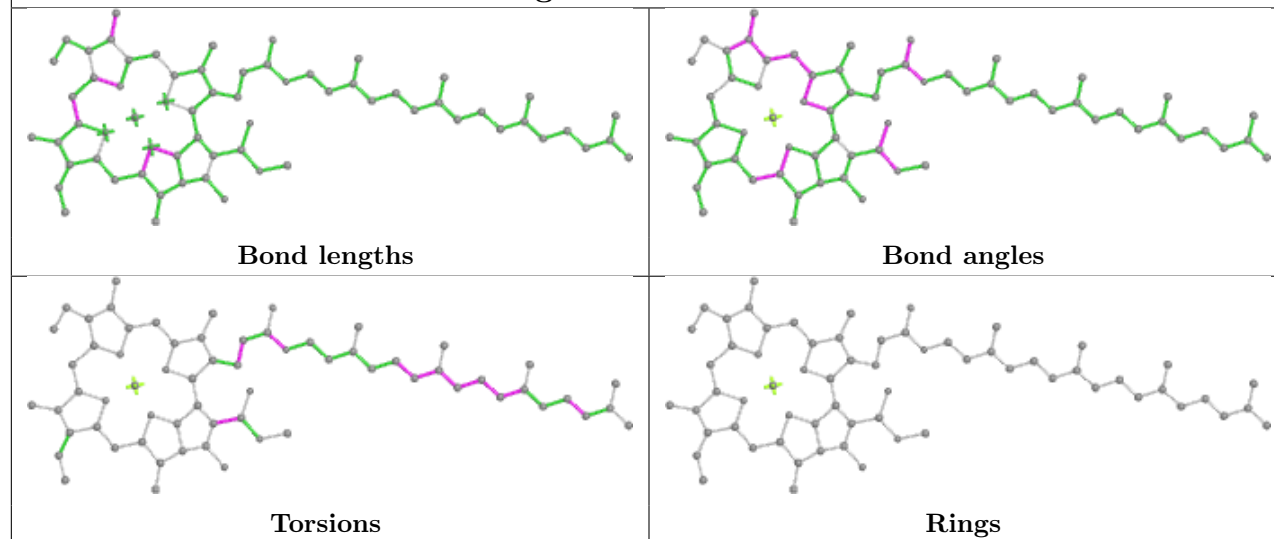


Rings

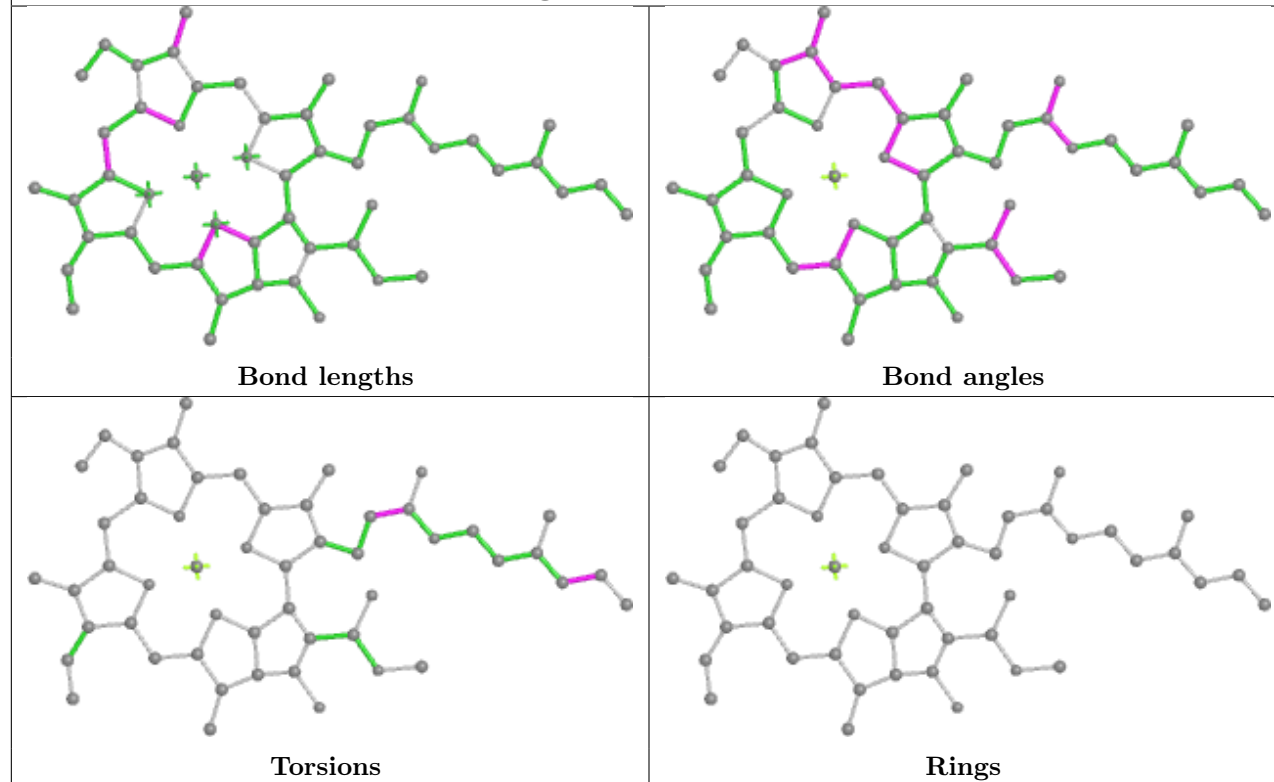




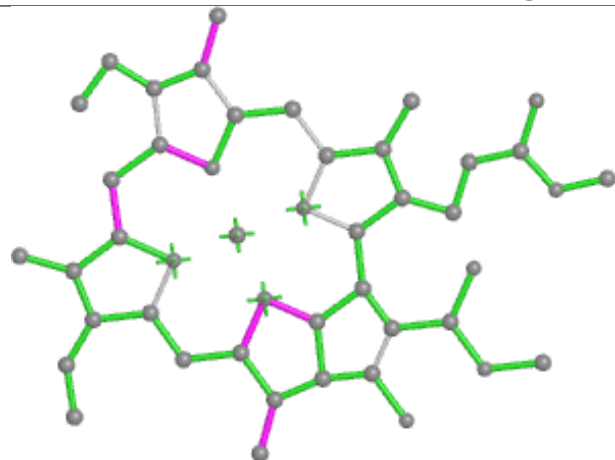
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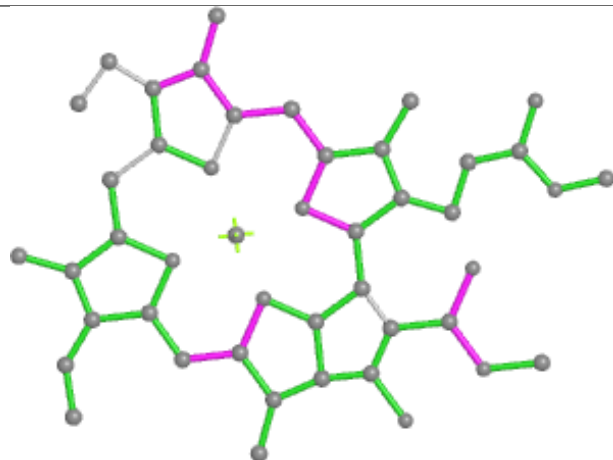
Ligand CLA 1 312



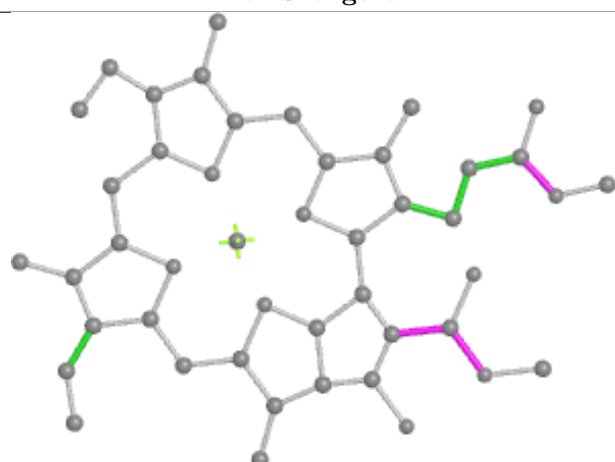
Ligand CLA 8 310



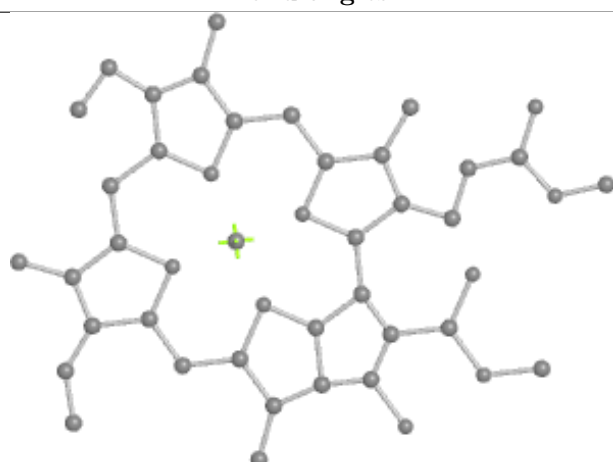
Bond lengths



Bond angles

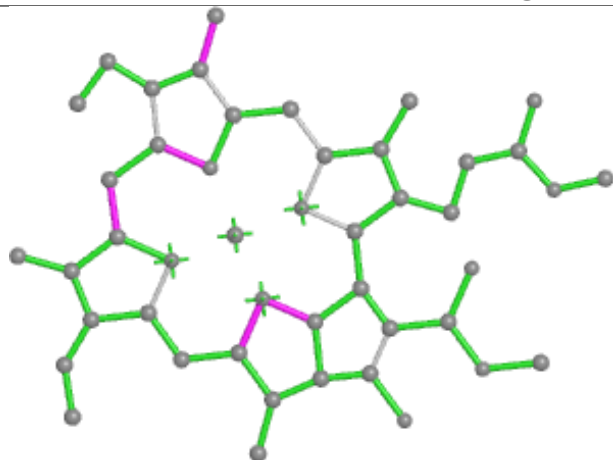


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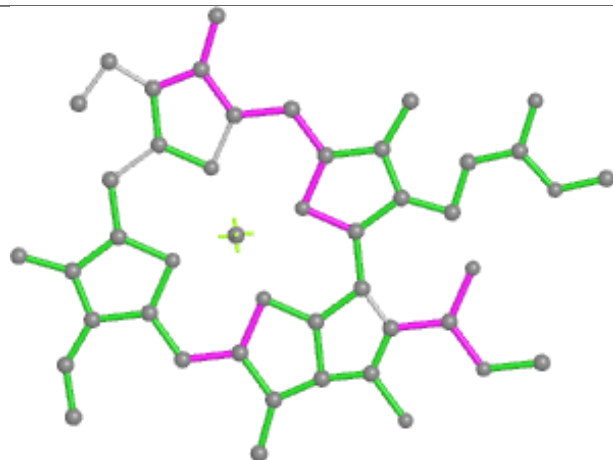


Rings

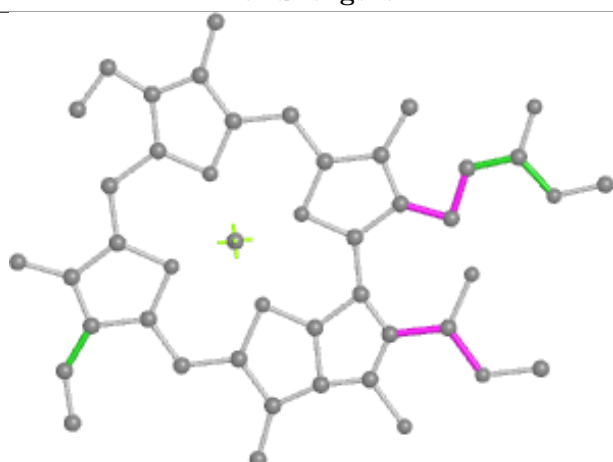
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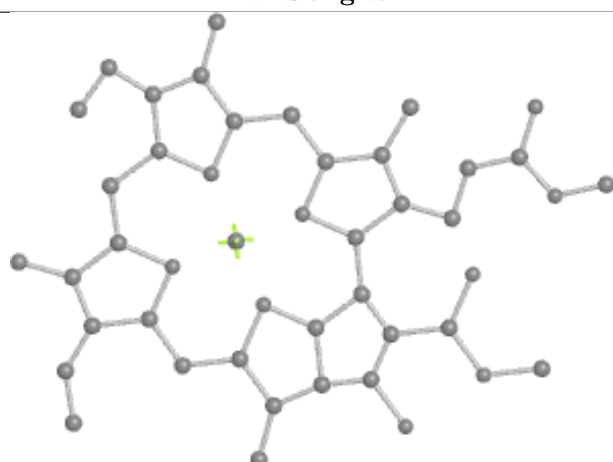
Bond lengths



Bond angles

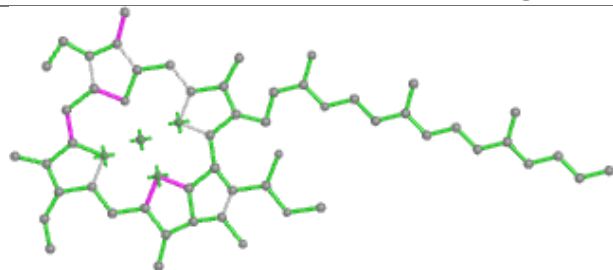


Torsions

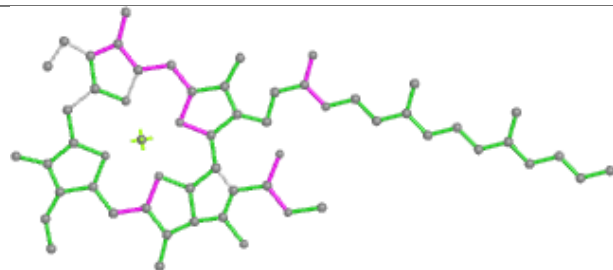


Rings

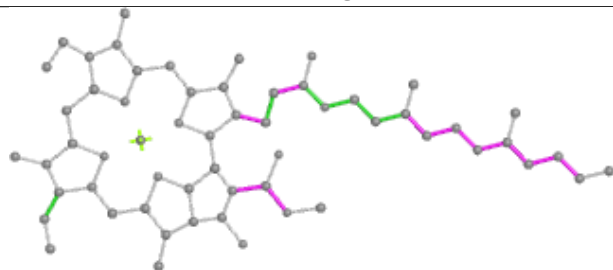
Ligand CLA b 833



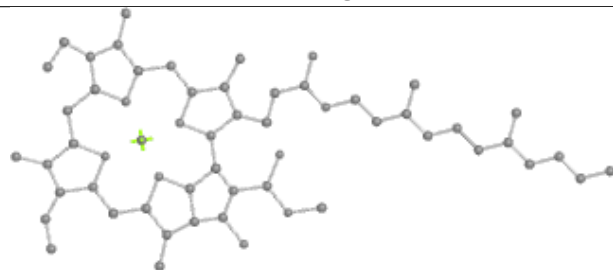
Bond lengths



Bond angles

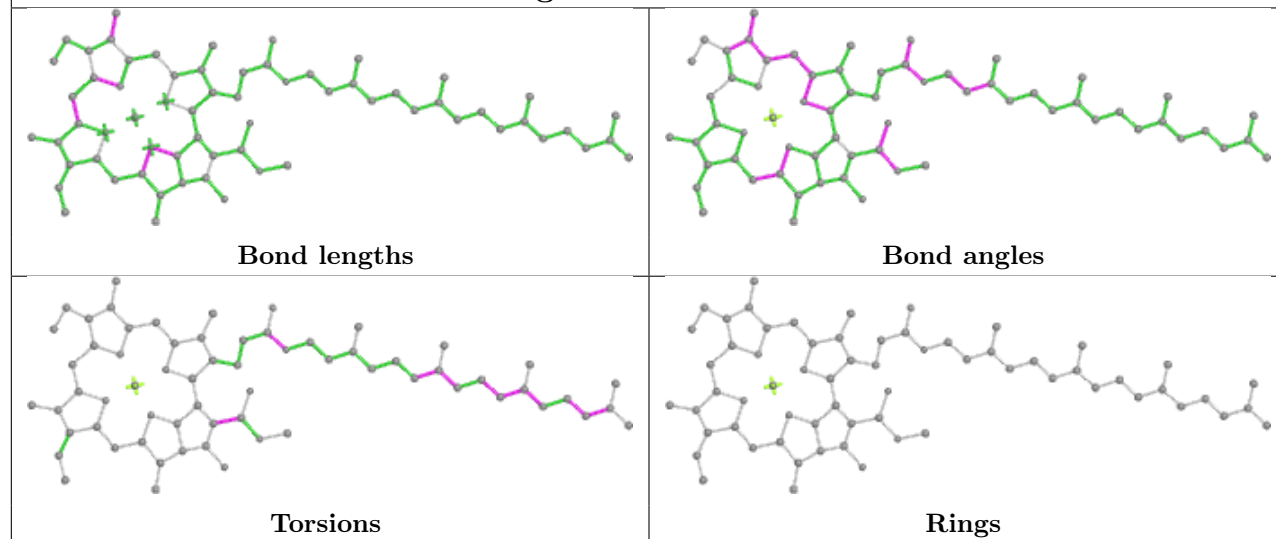


Torsions

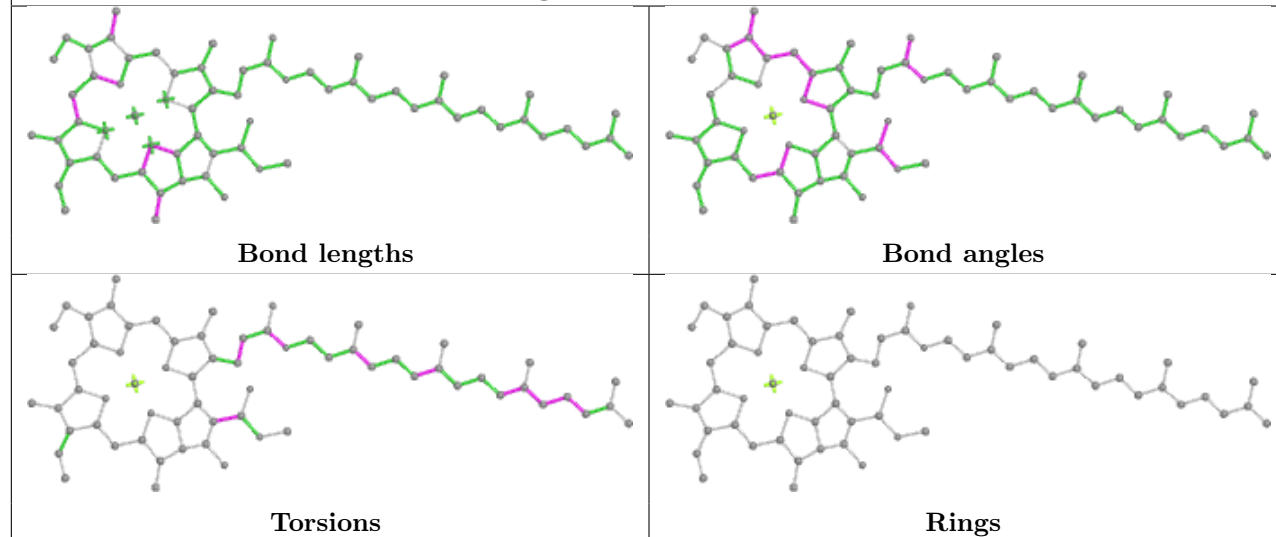


Rings

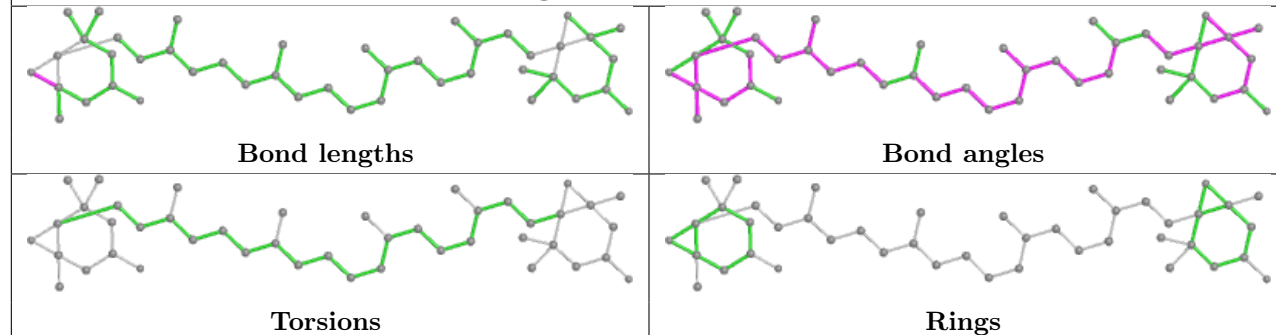
Ligand CLA a 844



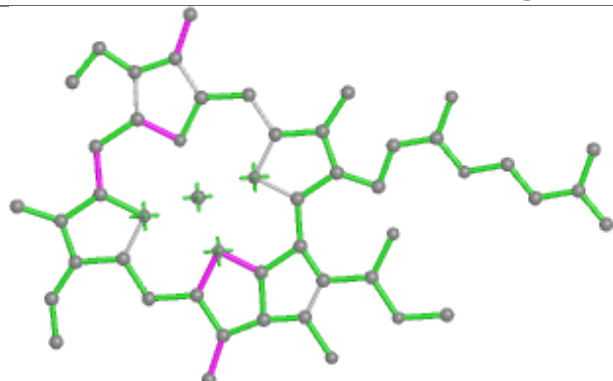
Ligand CLA b 839



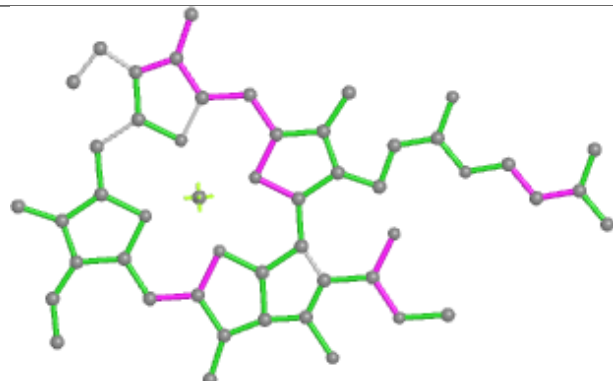
Ligand XAT 4 302



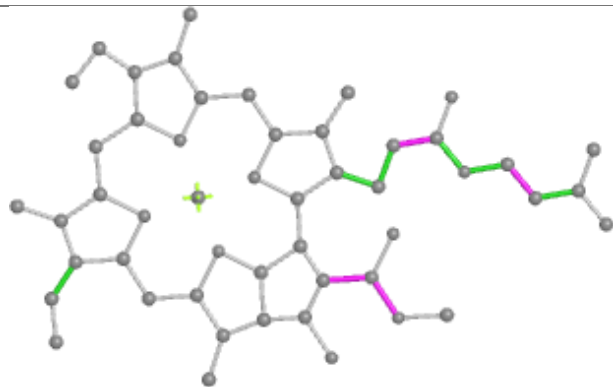
Ligand CLA 4 309



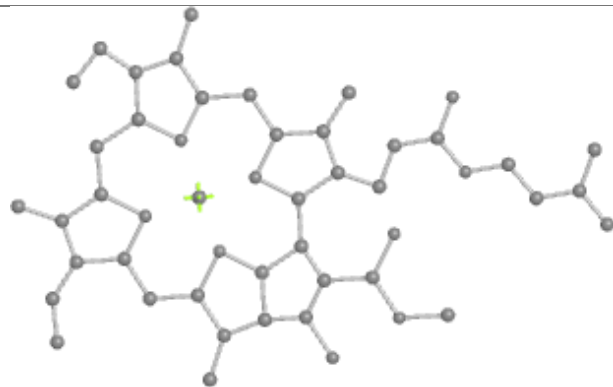
Bond lengths



Bond angles

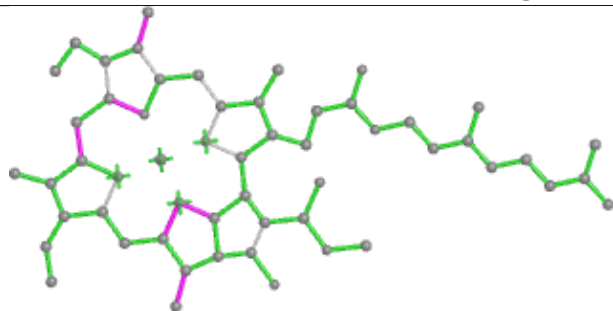


Torsions

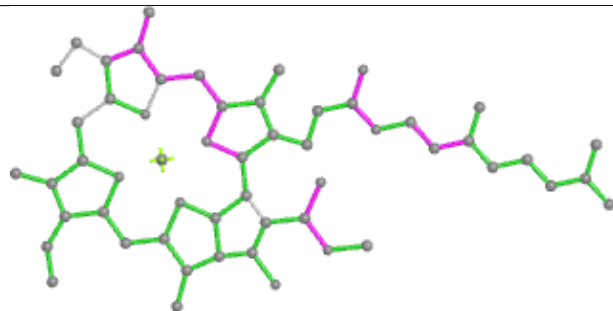


Rings

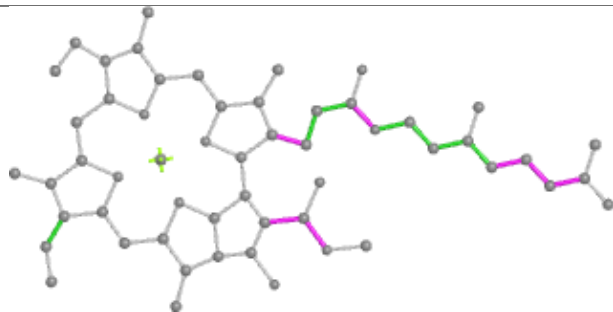
Ligand CLA b 814



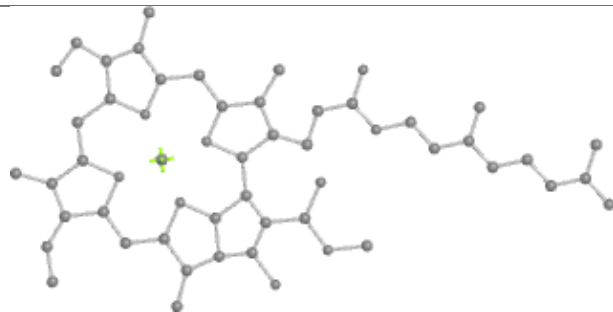
Bond lengths



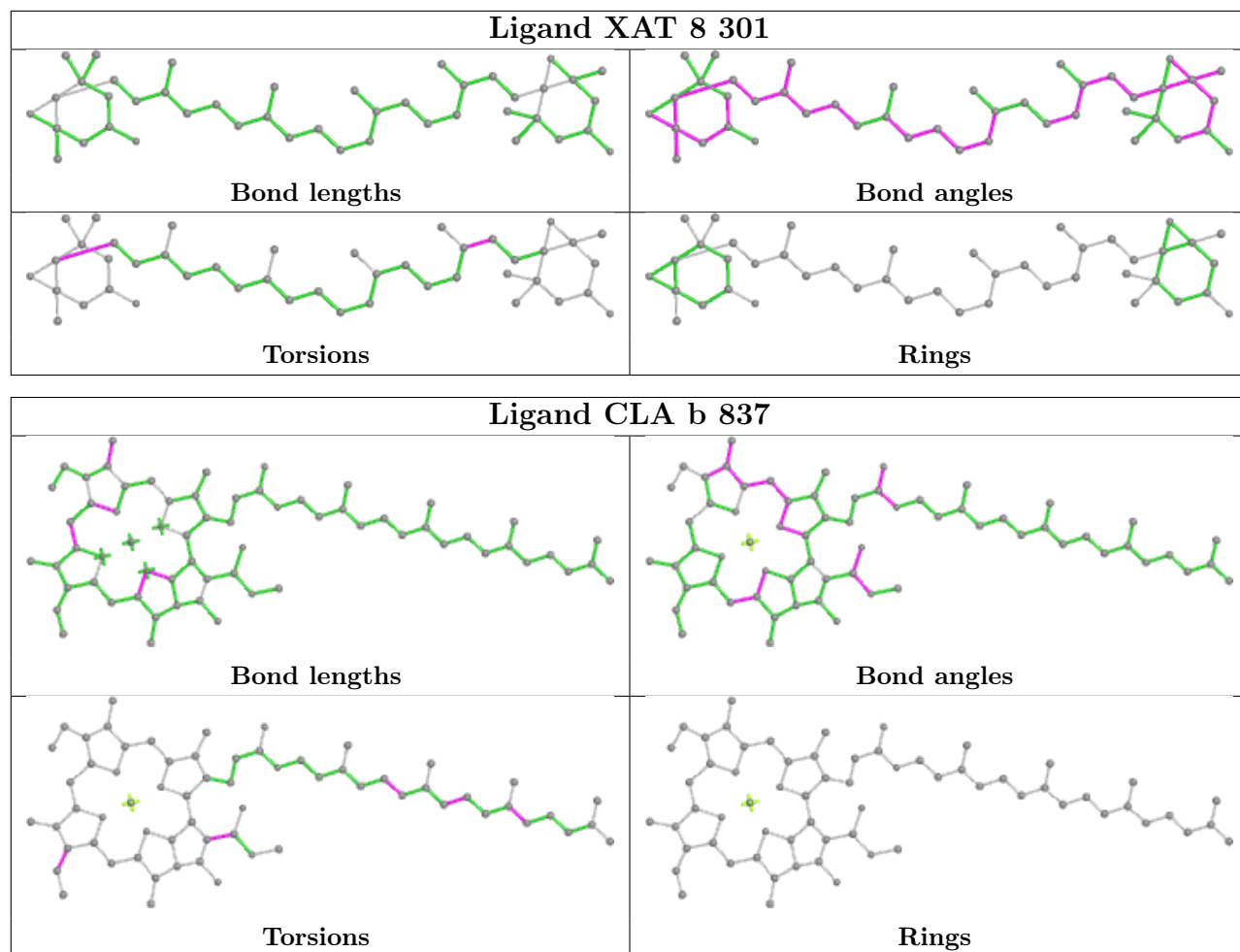
Bond angles

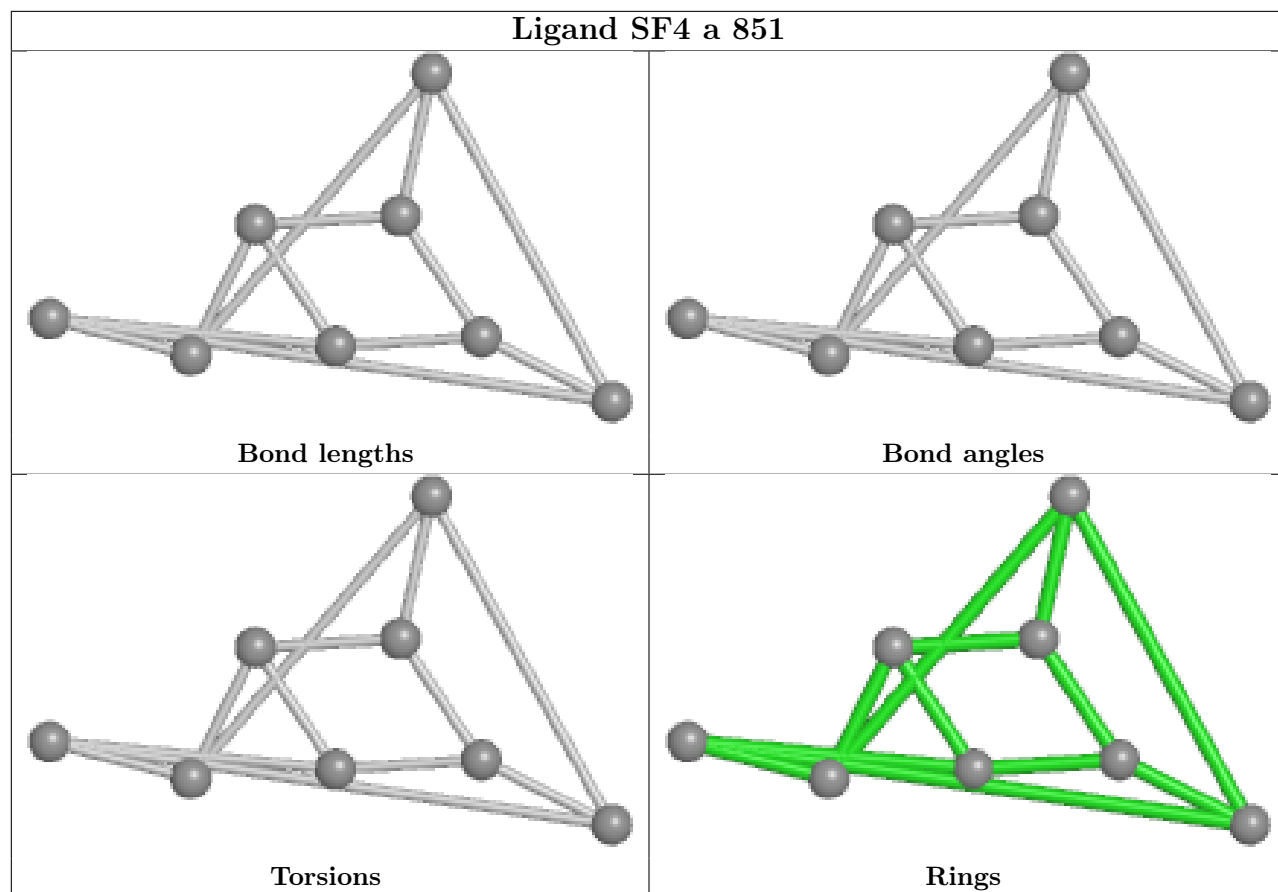


Torsions

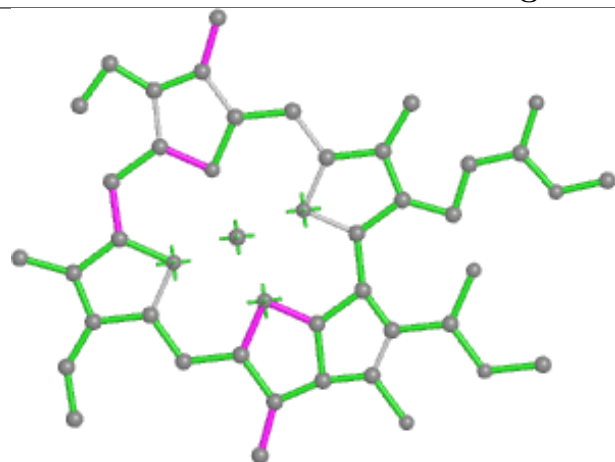


Rings

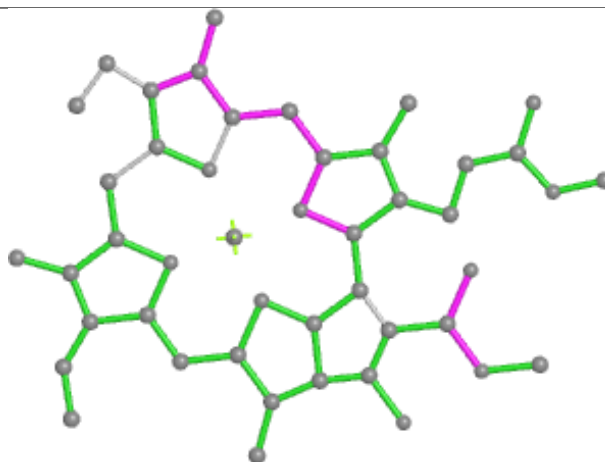




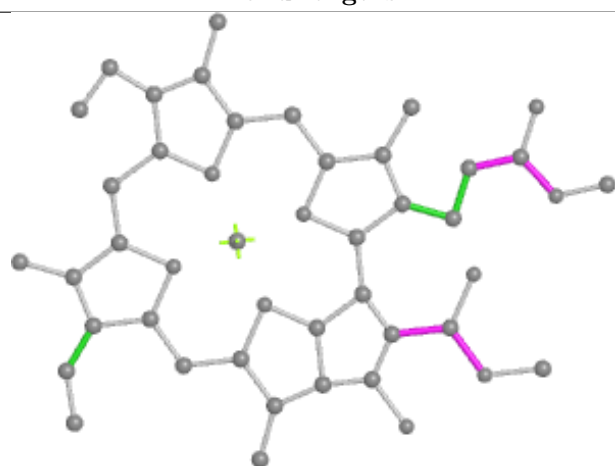
Ligand CLA 6 314



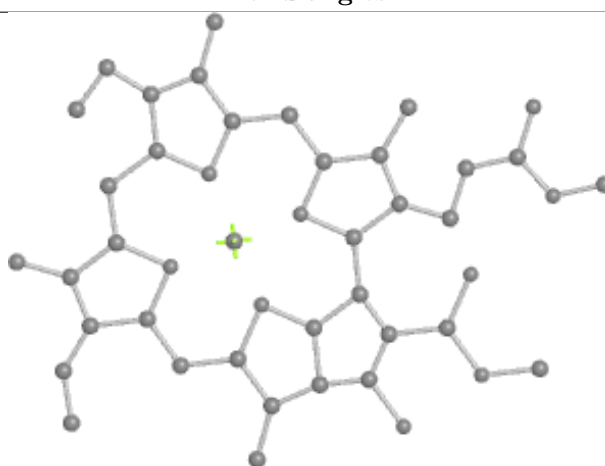
Bond lengths



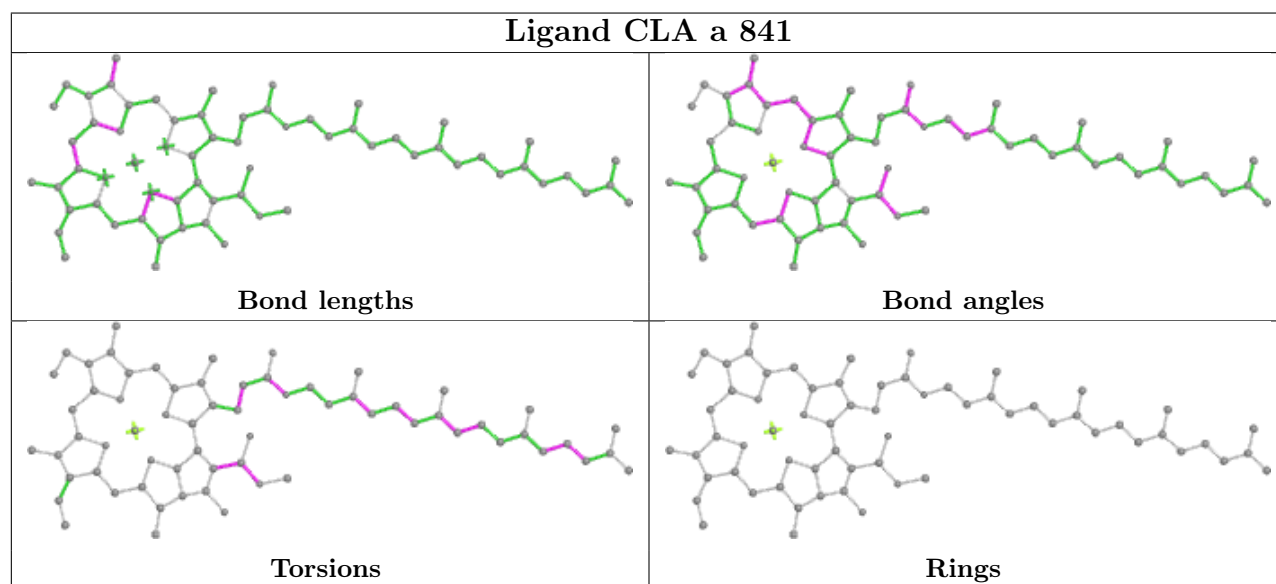
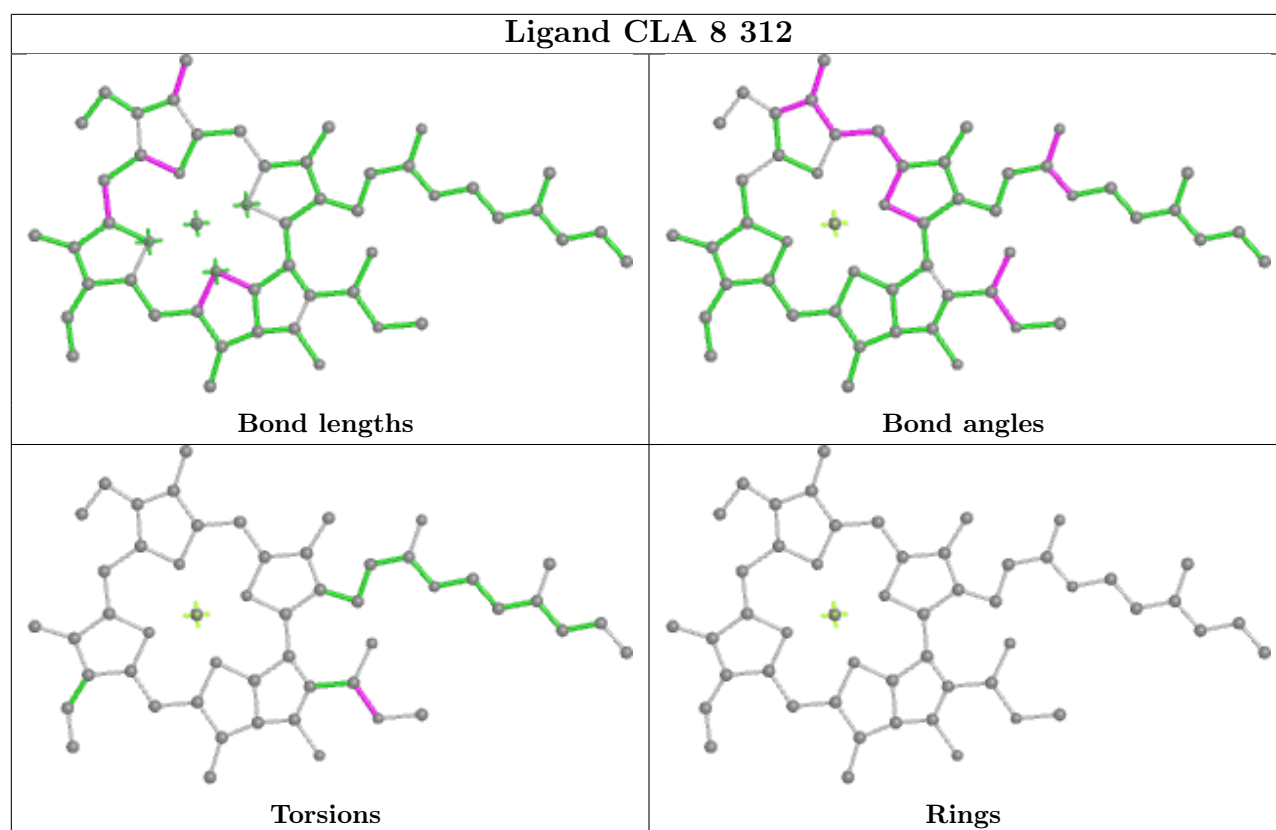
Bond angles



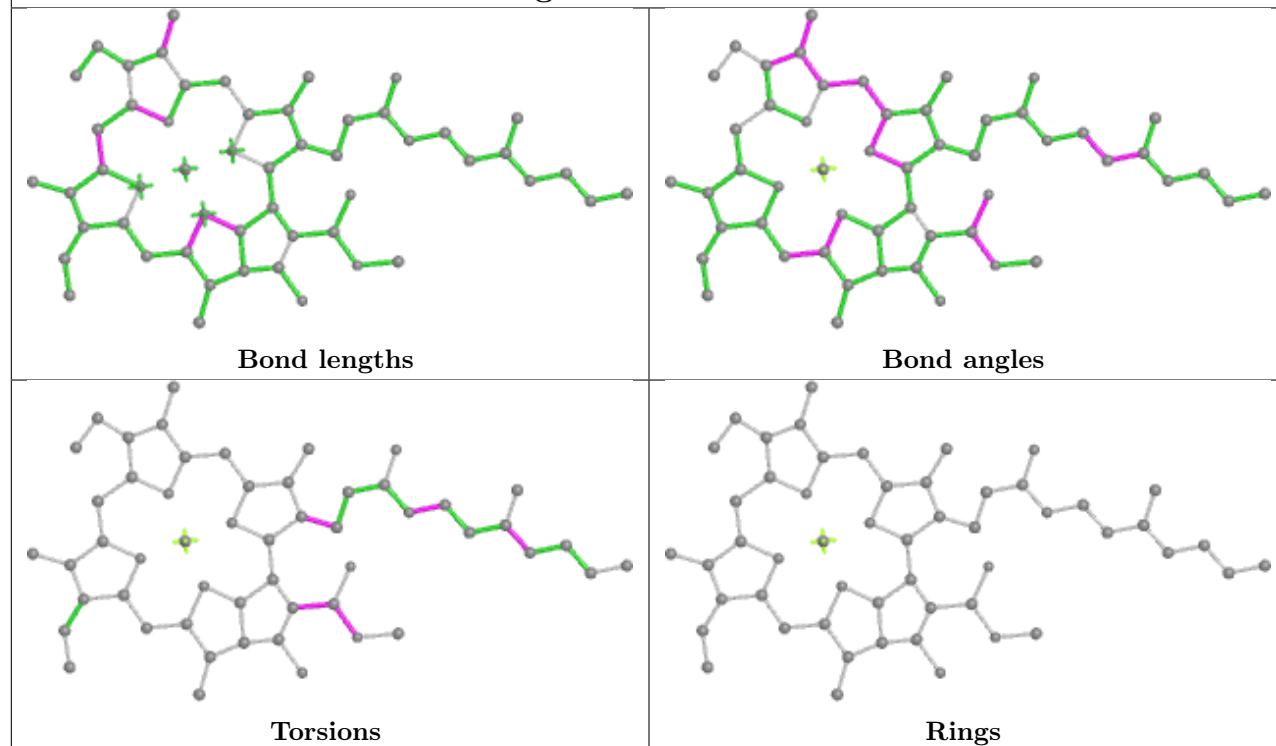
Torsions



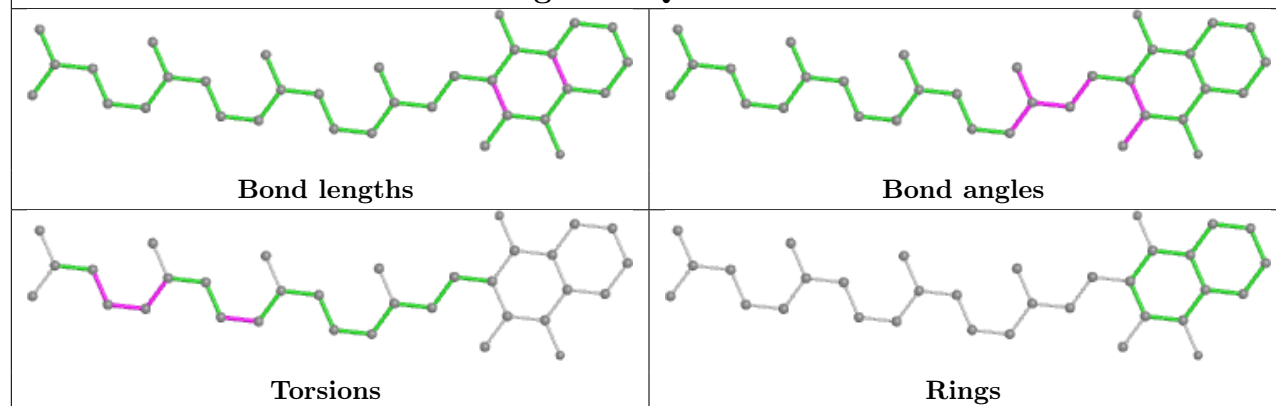
Rings



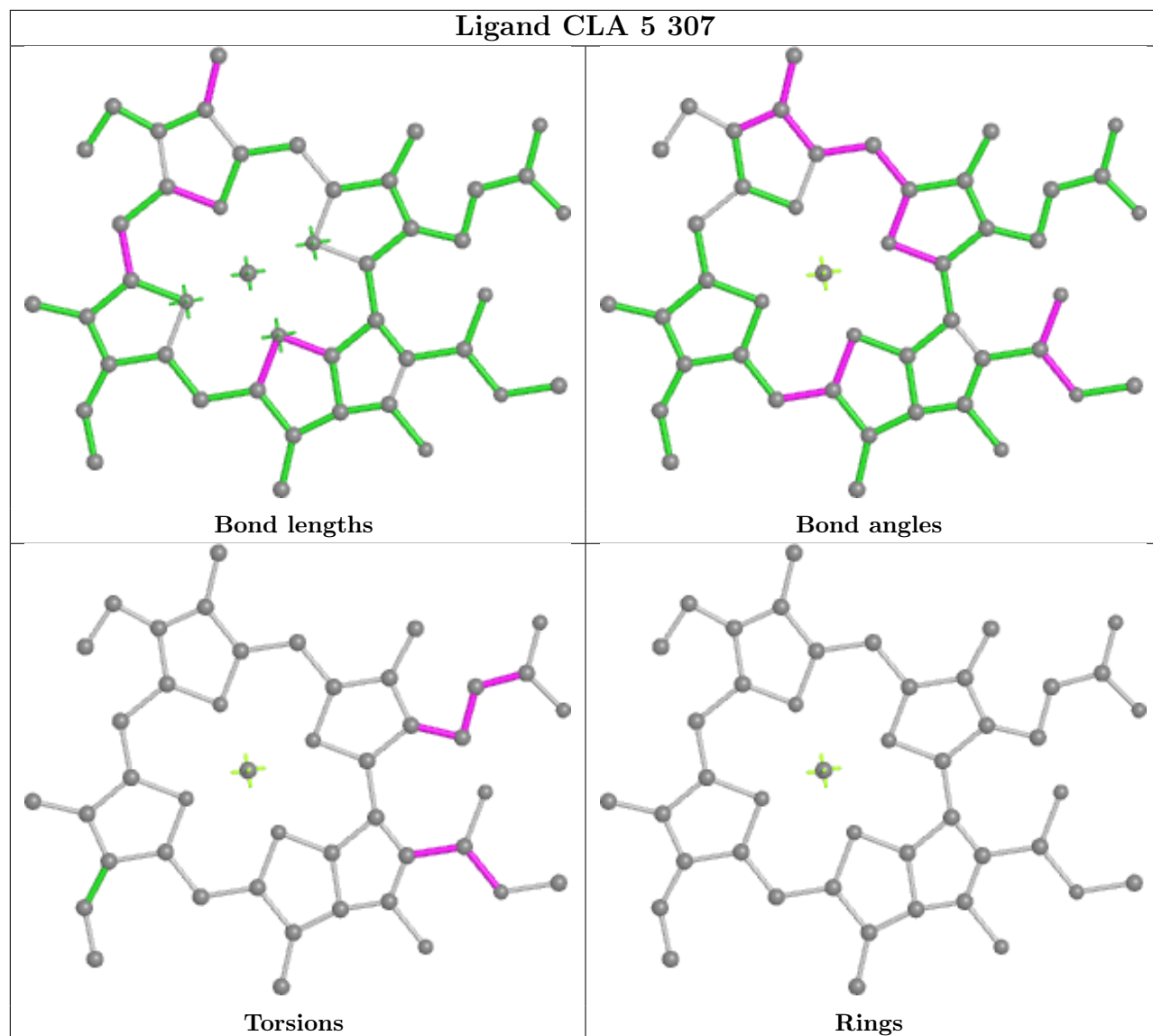
Ligand CLA b 835



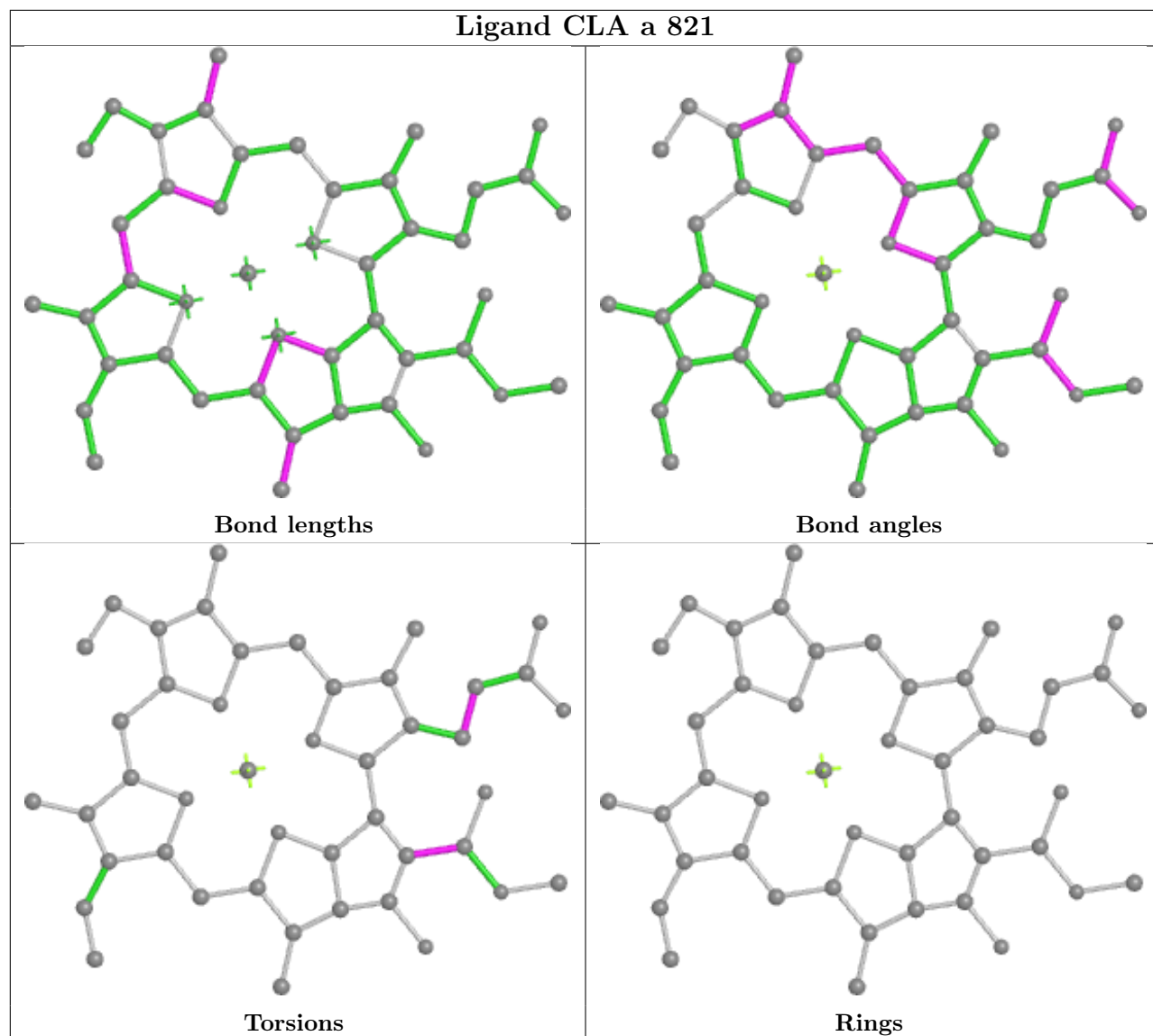
Ligand PQN a 843



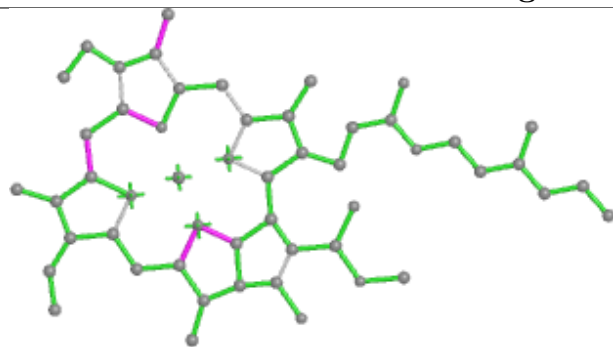
Ligand CLA 5 307



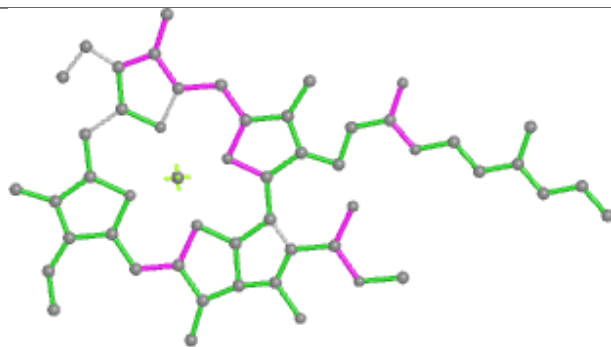
Ligand CLA a 821



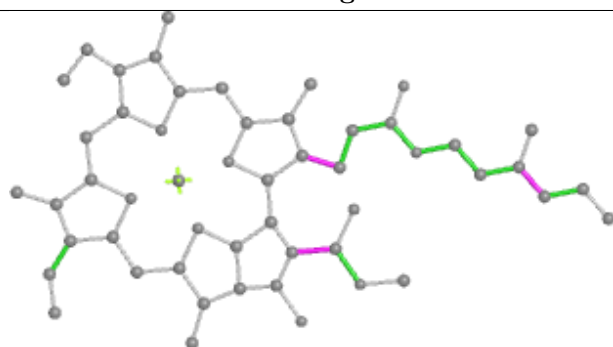
Ligand CLA 5 315



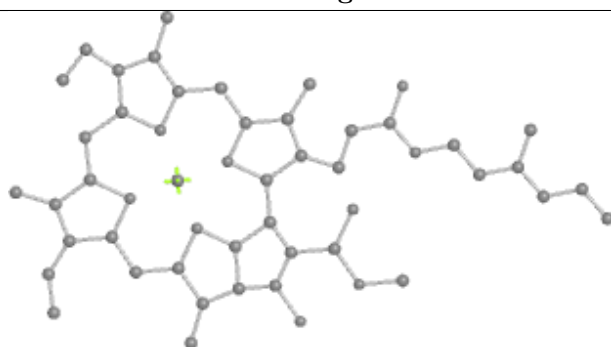
Bond lengths



Bond angles

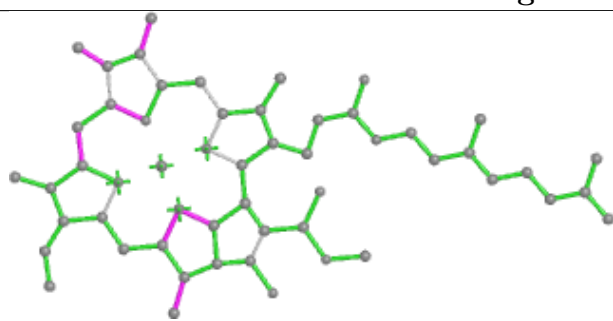


Torsions

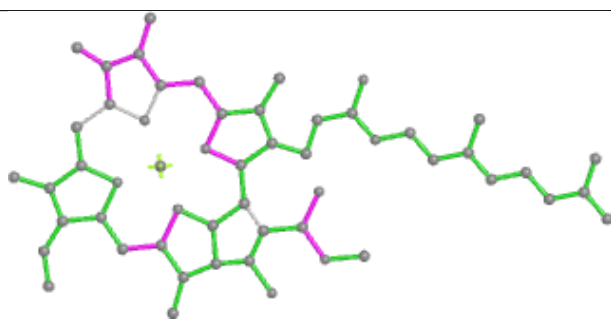


Rings

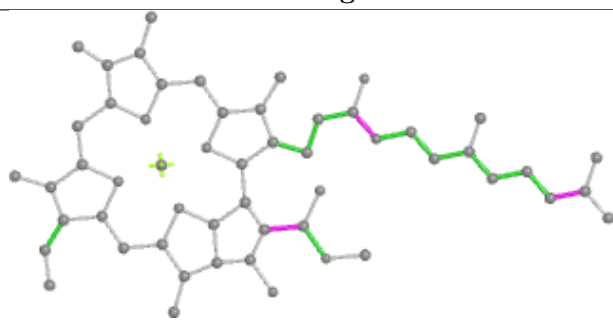
Ligand CLA b 811



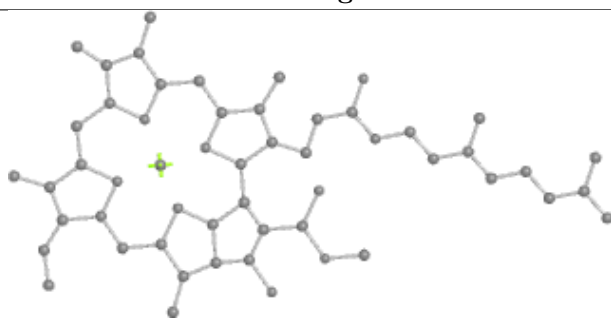
Bond lengths



Bond angles

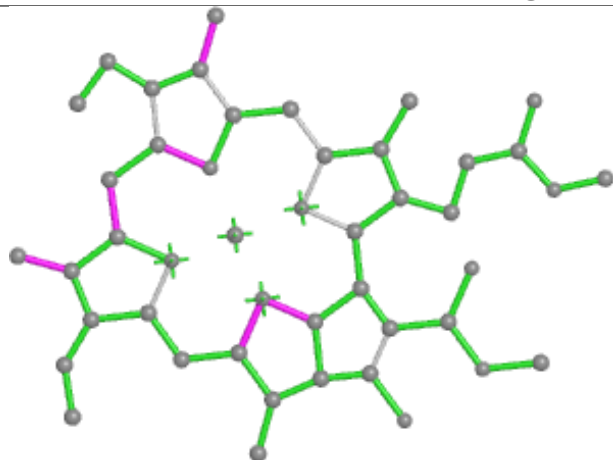


Torsions

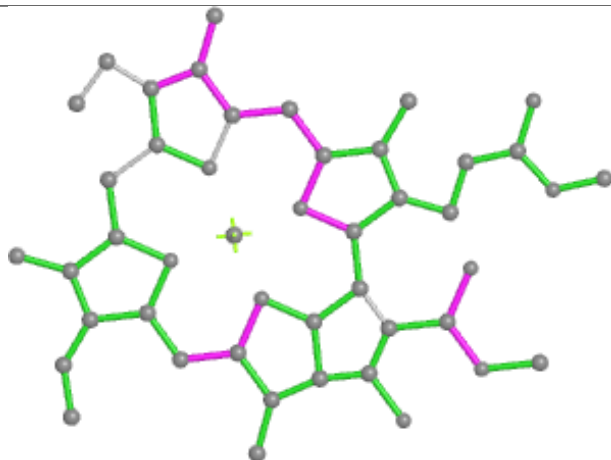


Rings

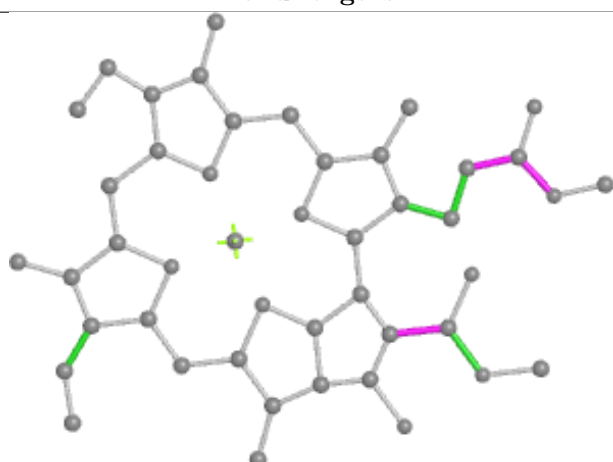
Ligand CLA 1 203



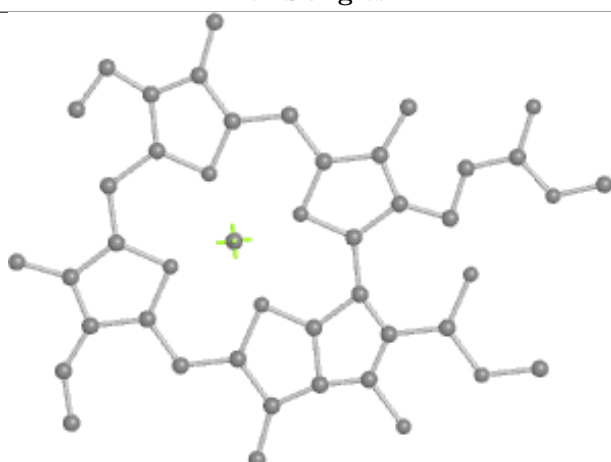
Bond lengths



Bond angles

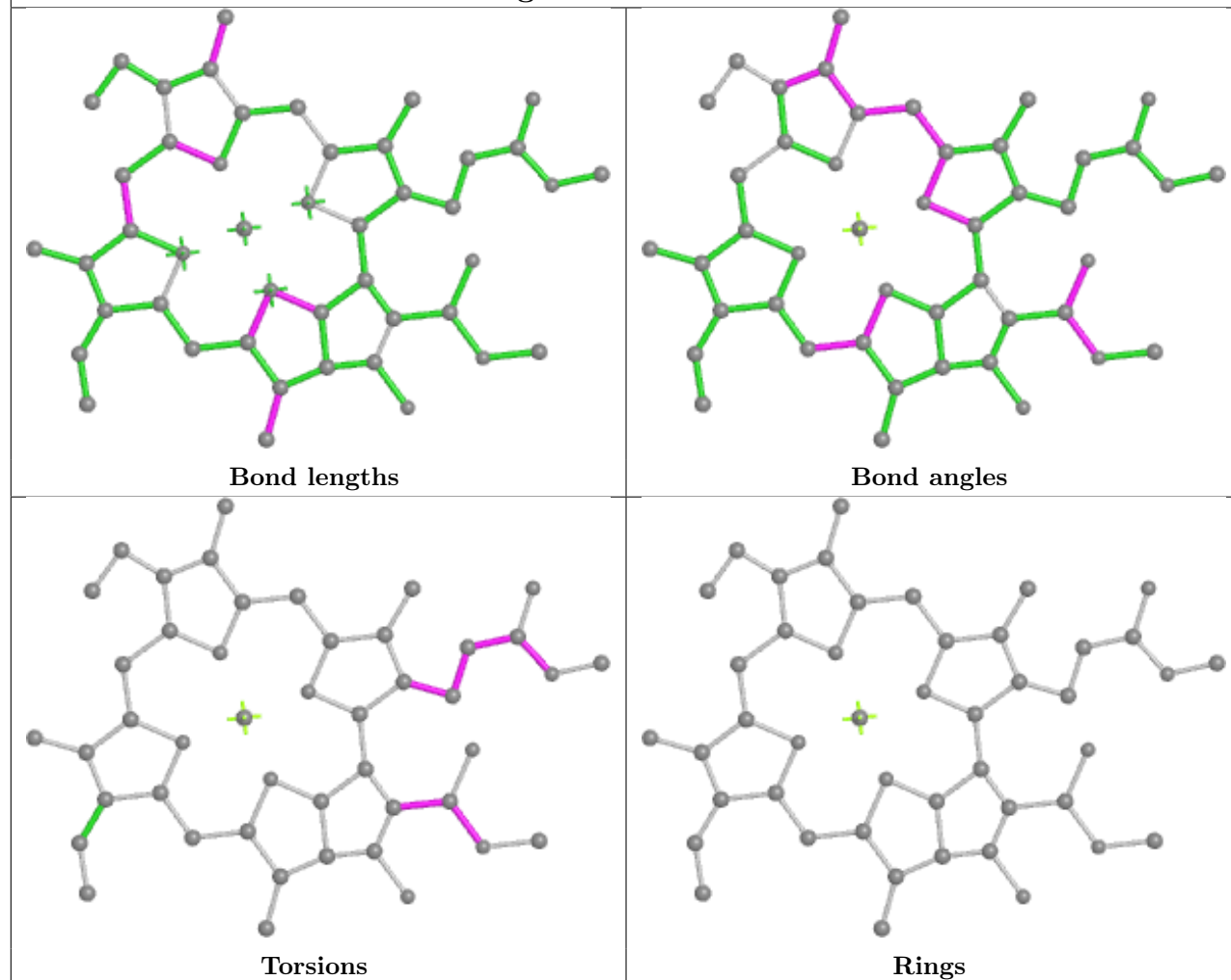


Torsions

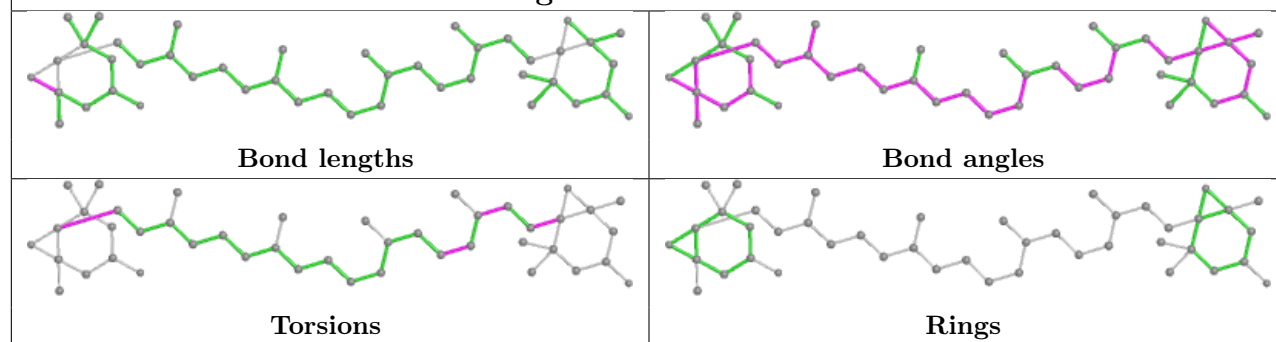


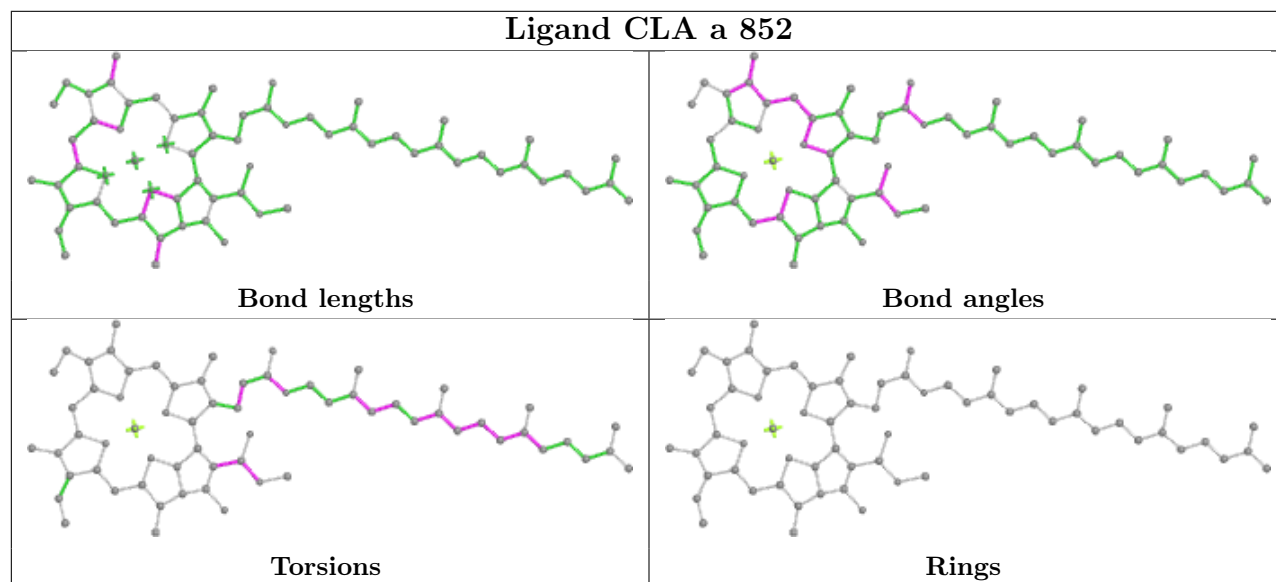
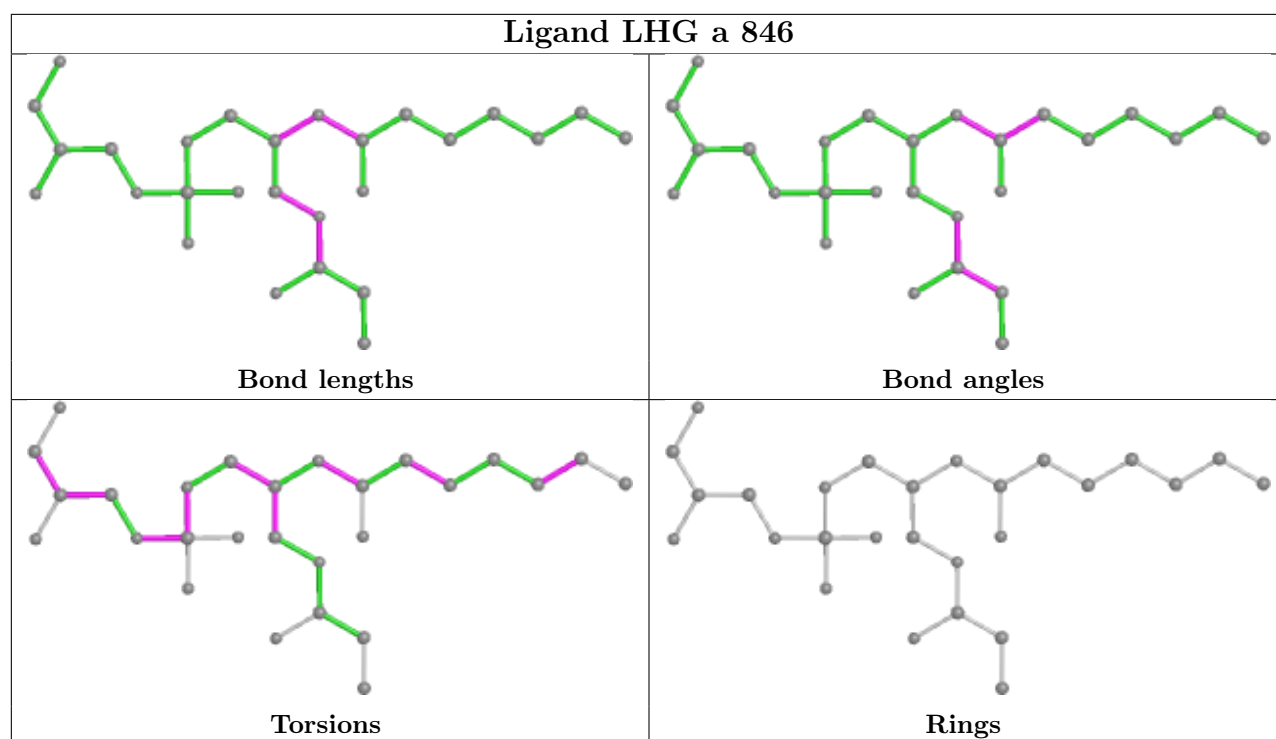
Rings

Ligand CLA 9 313

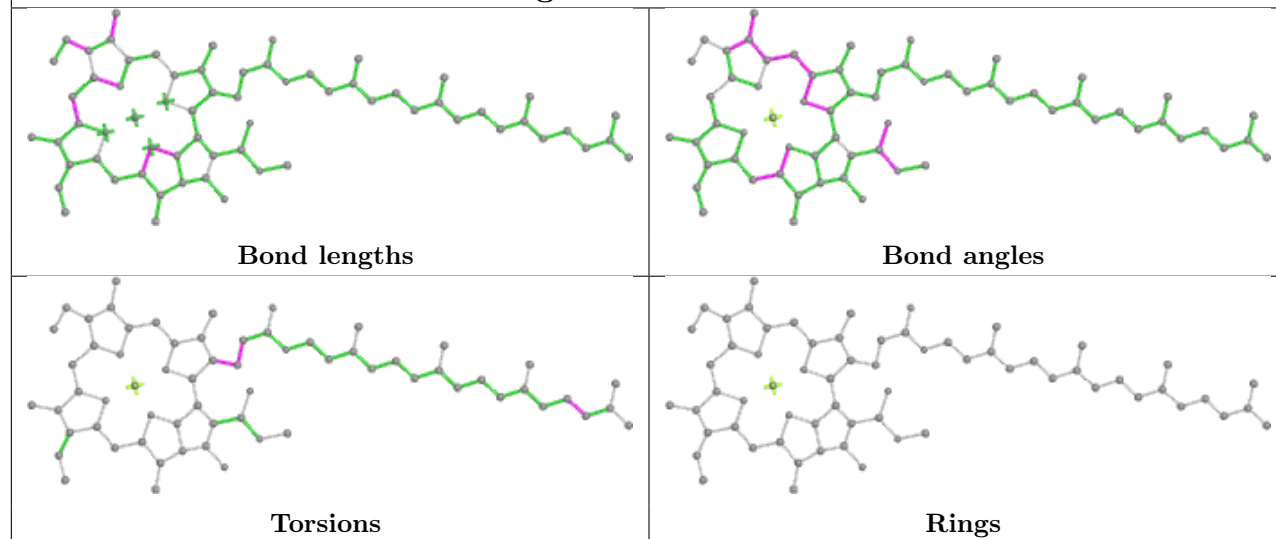


Ligand XAT a 853

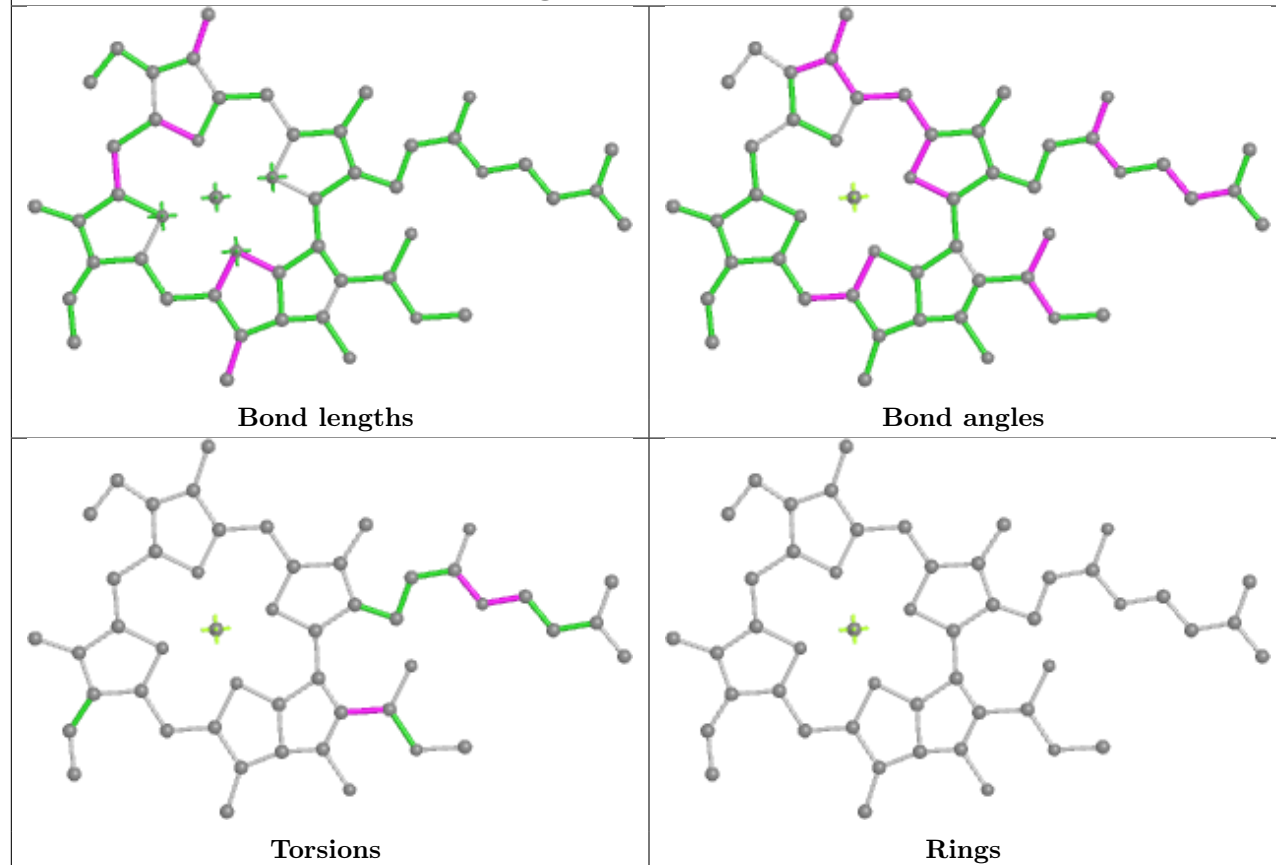




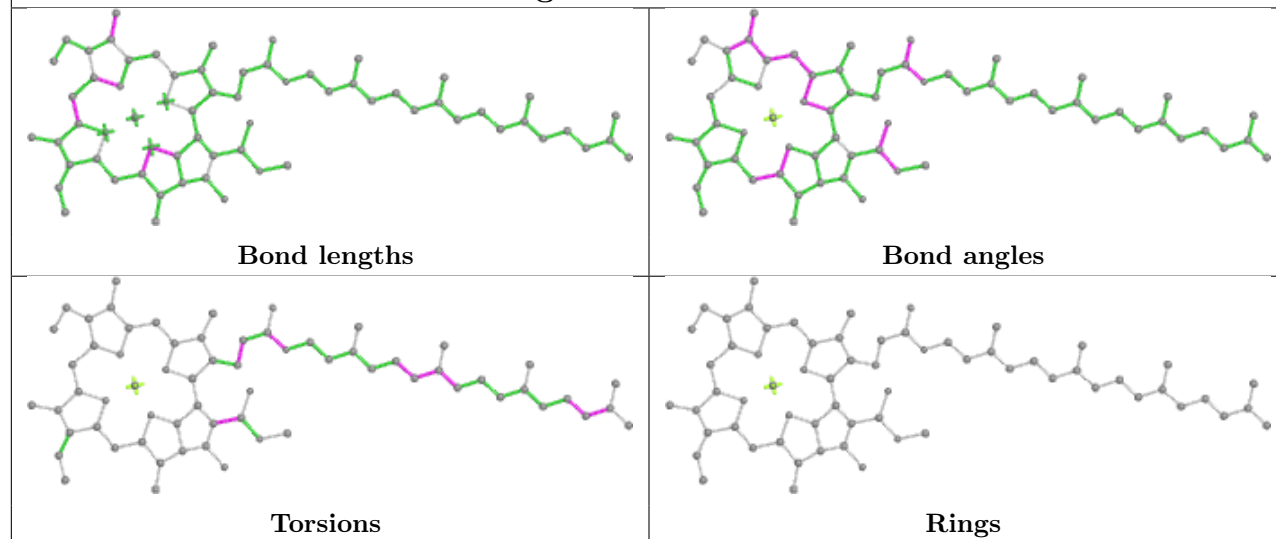
Ligand CLA a 803



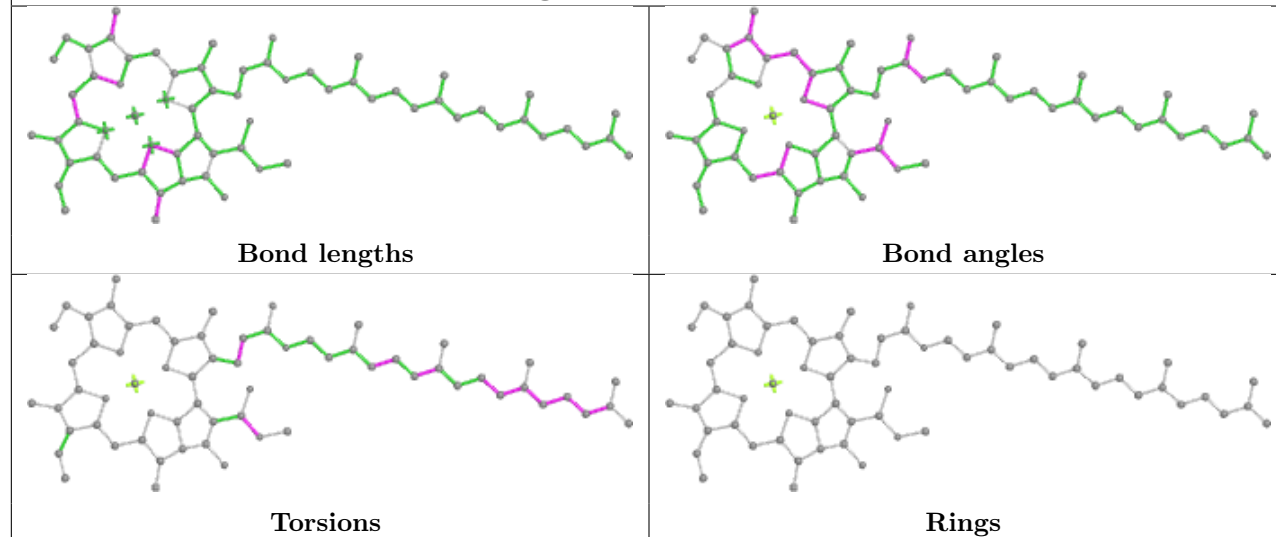
Ligand CLA a 816

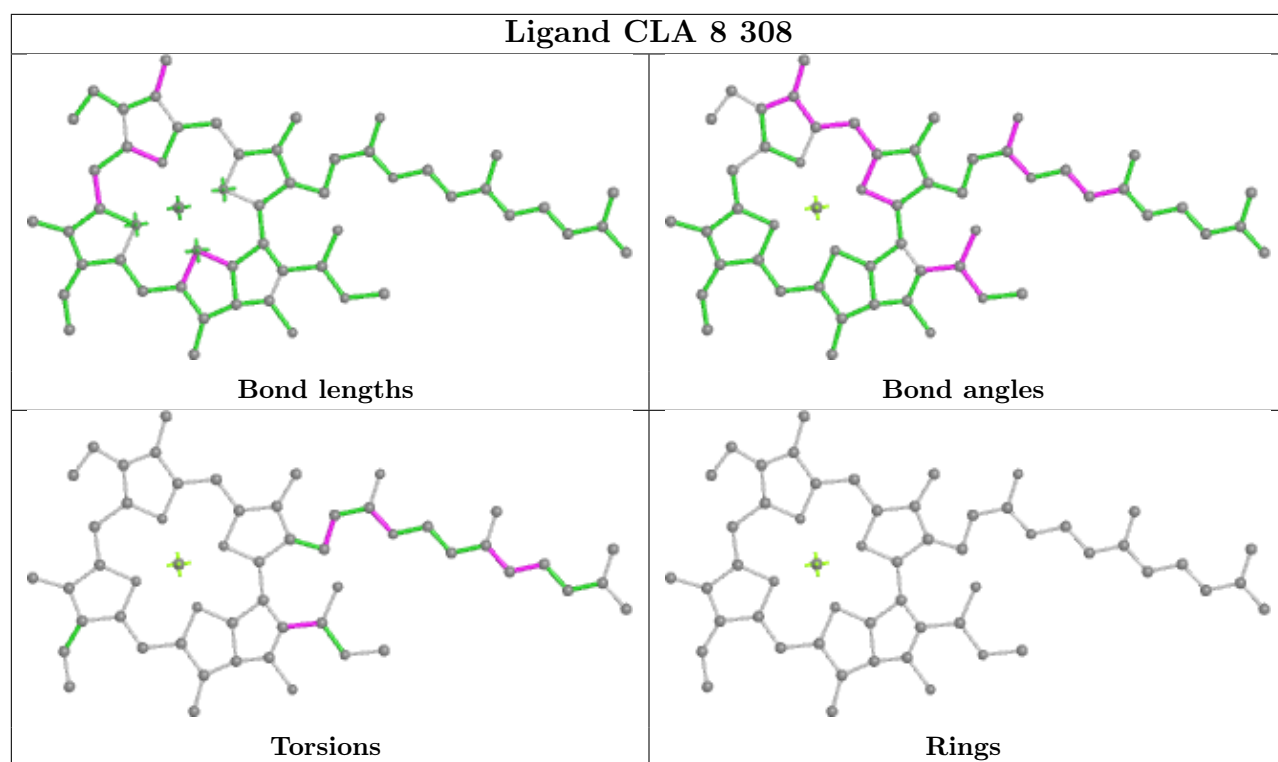


Ligand CLA 8 307

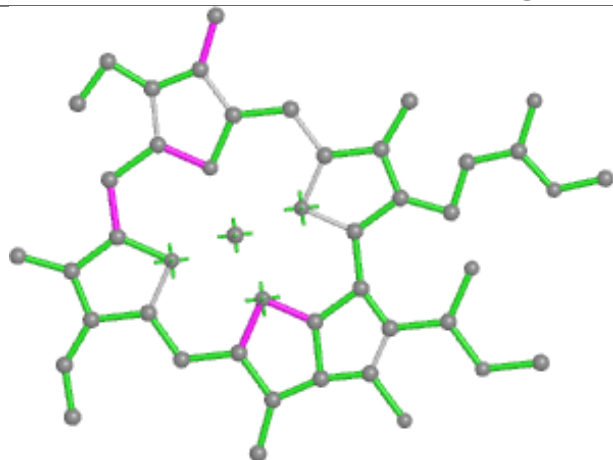


Ligand CLA 4 308

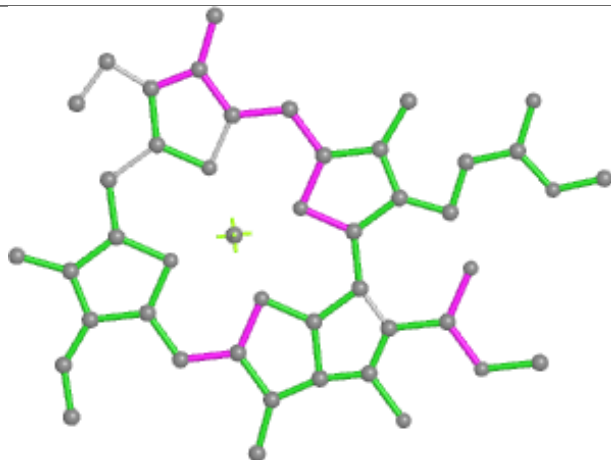




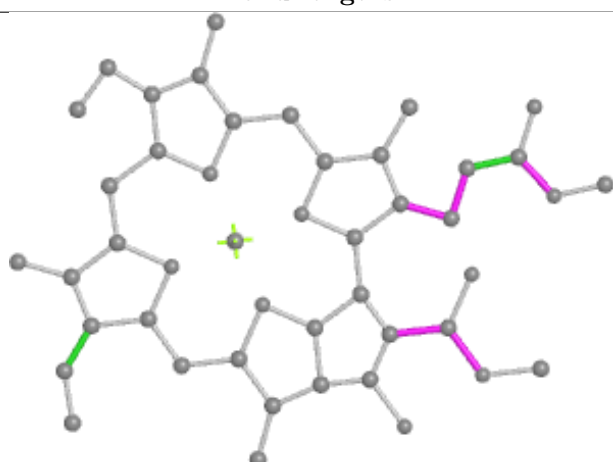
Ligand CLA 4 316



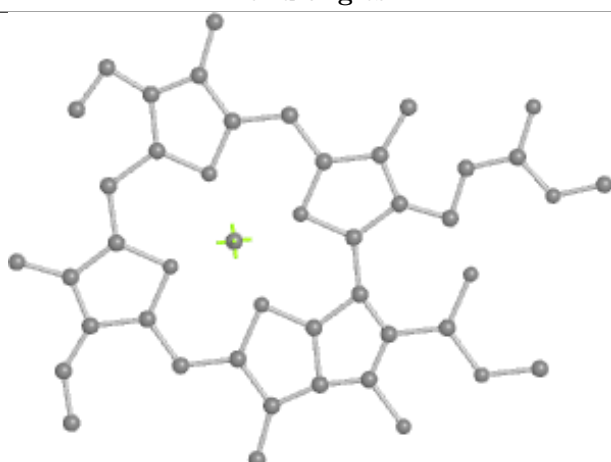
Bond lengths



Bond angles

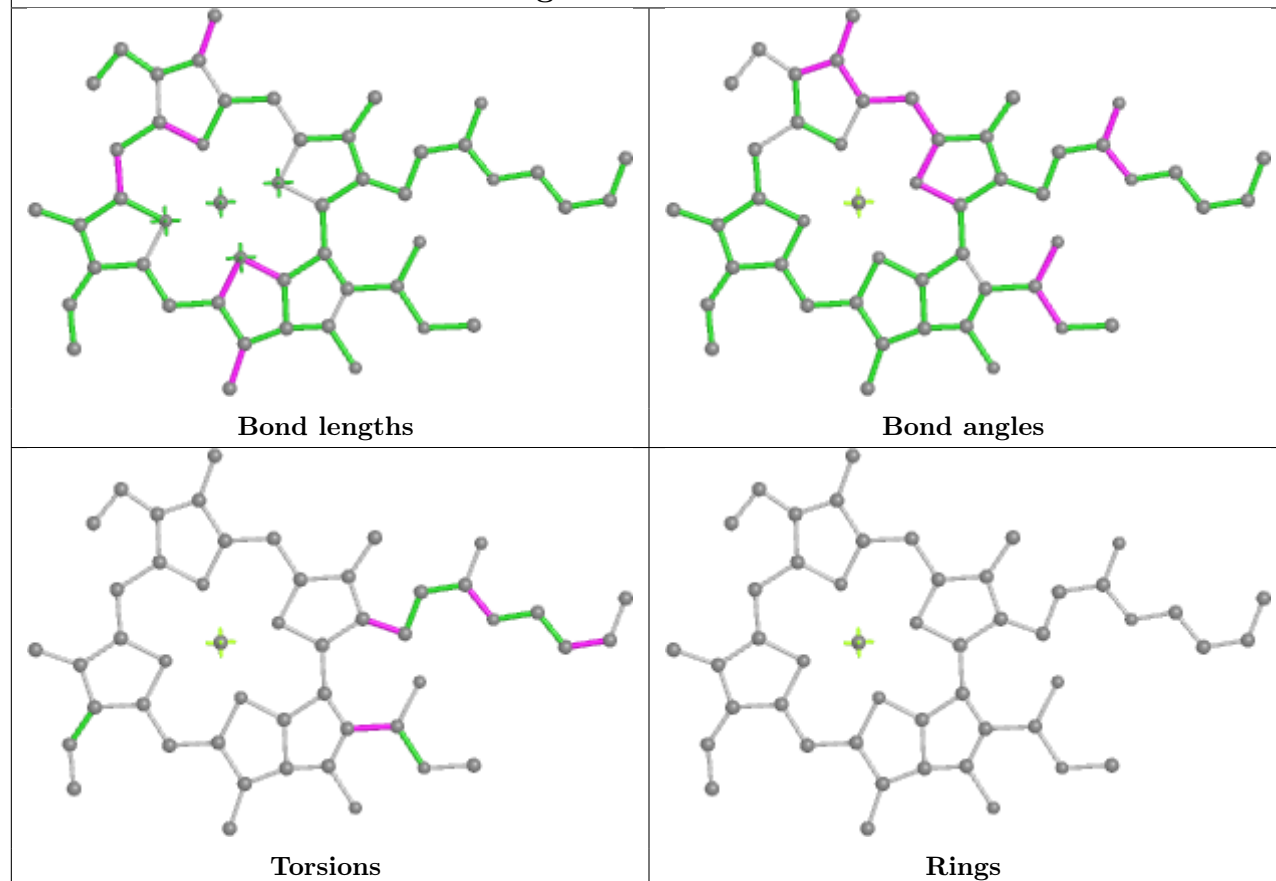


Torsions

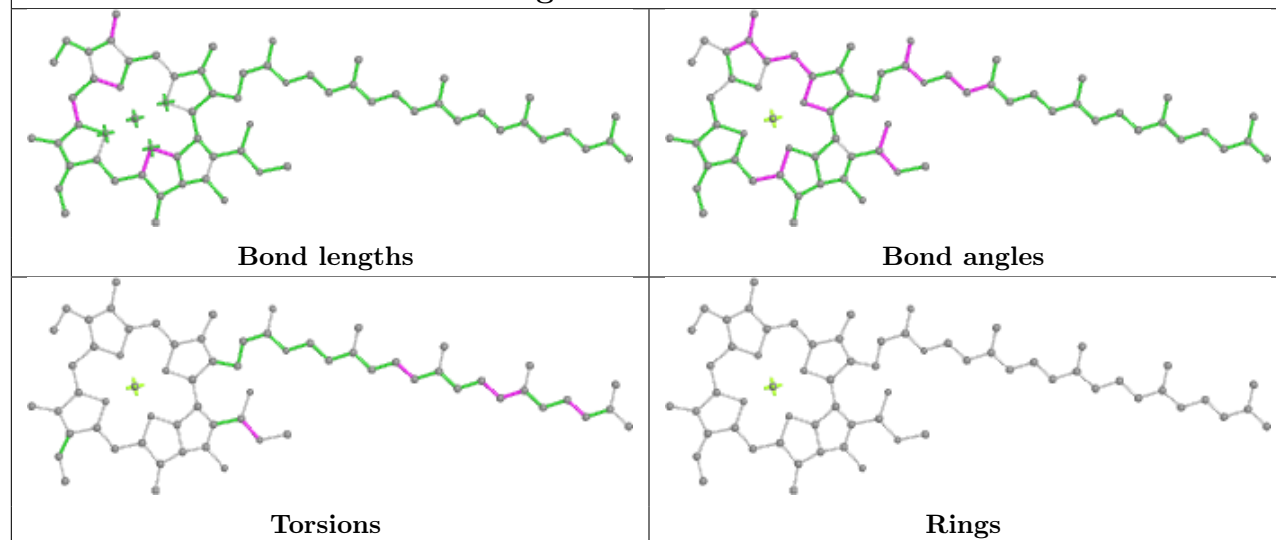


Rings

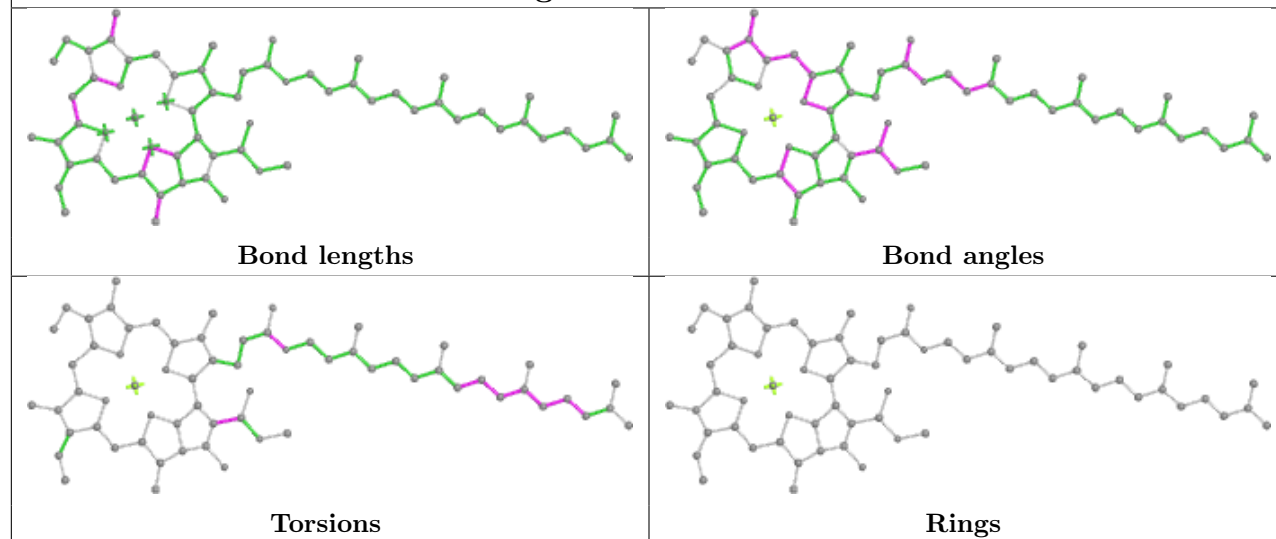
Ligand CLA a 823



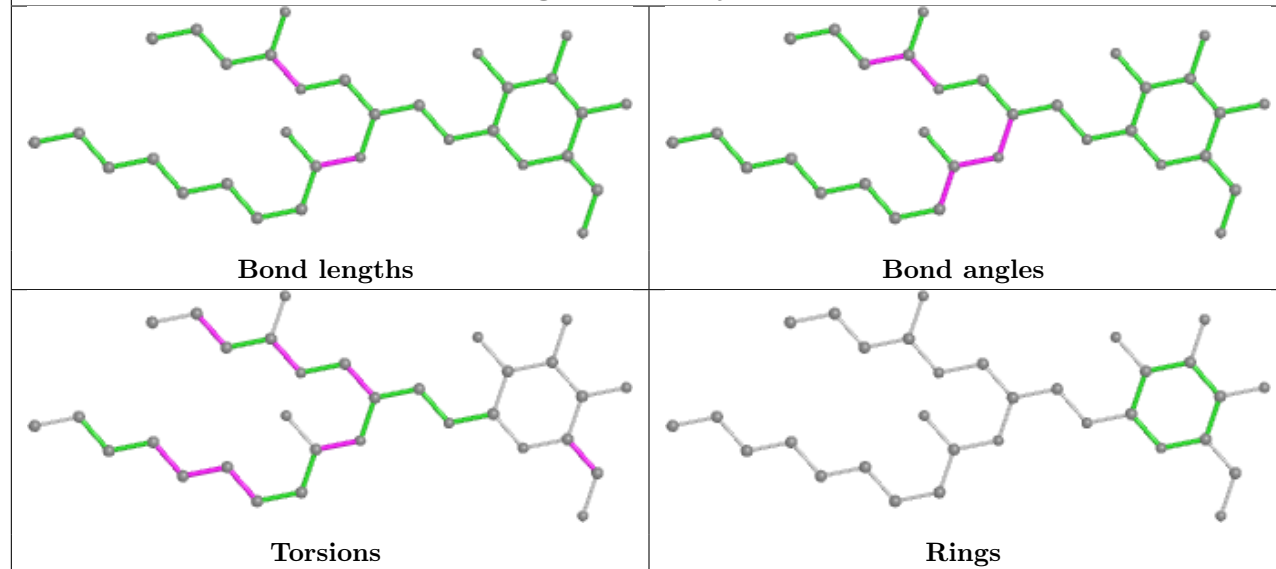
Ligand CLA a 834

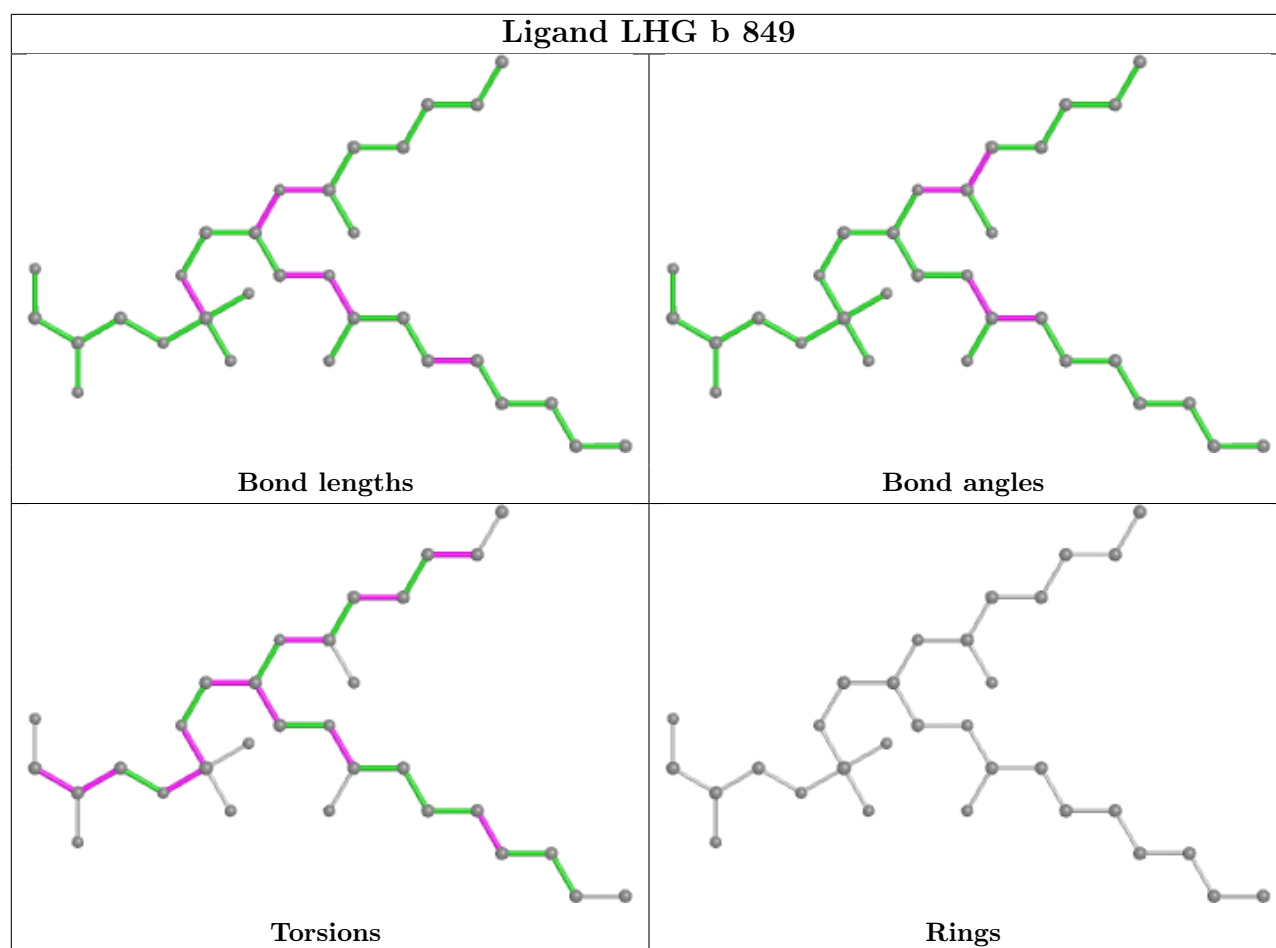


Ligand CLA b 829

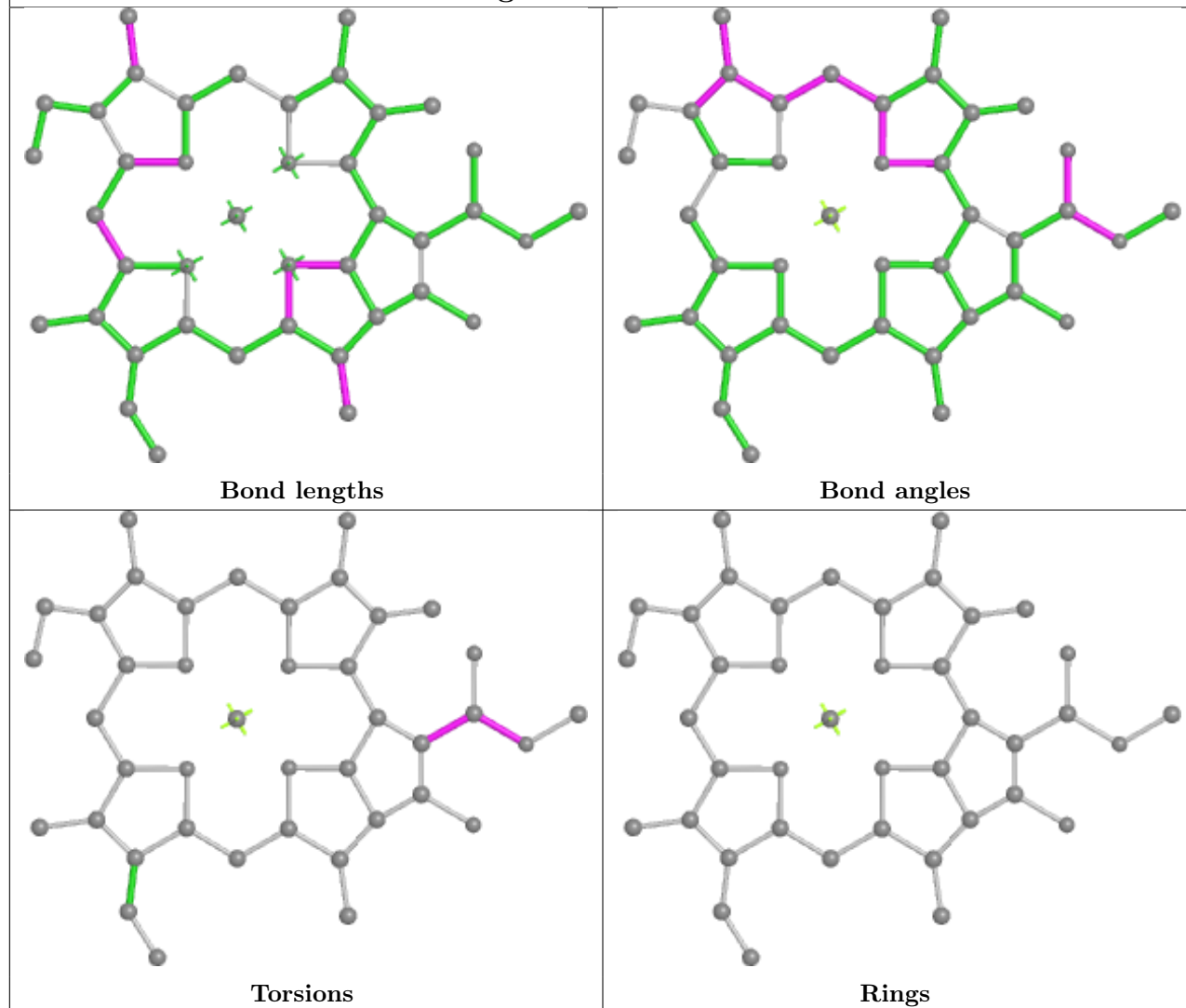


Ligand LMG j 103

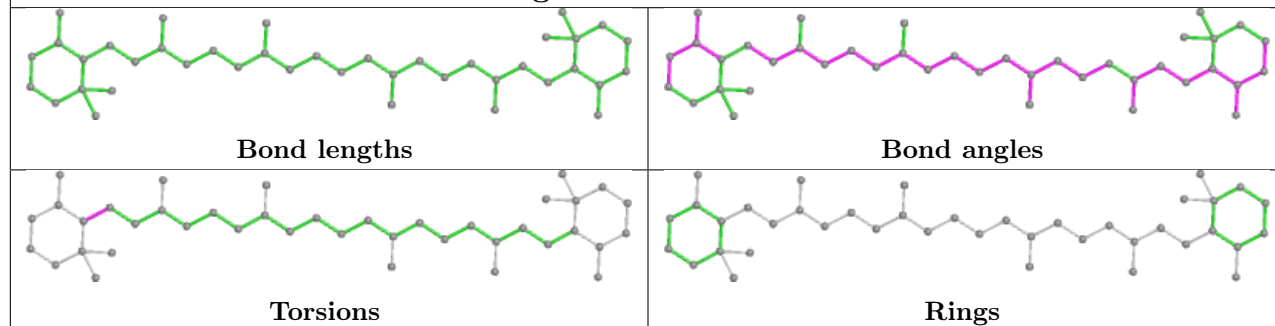


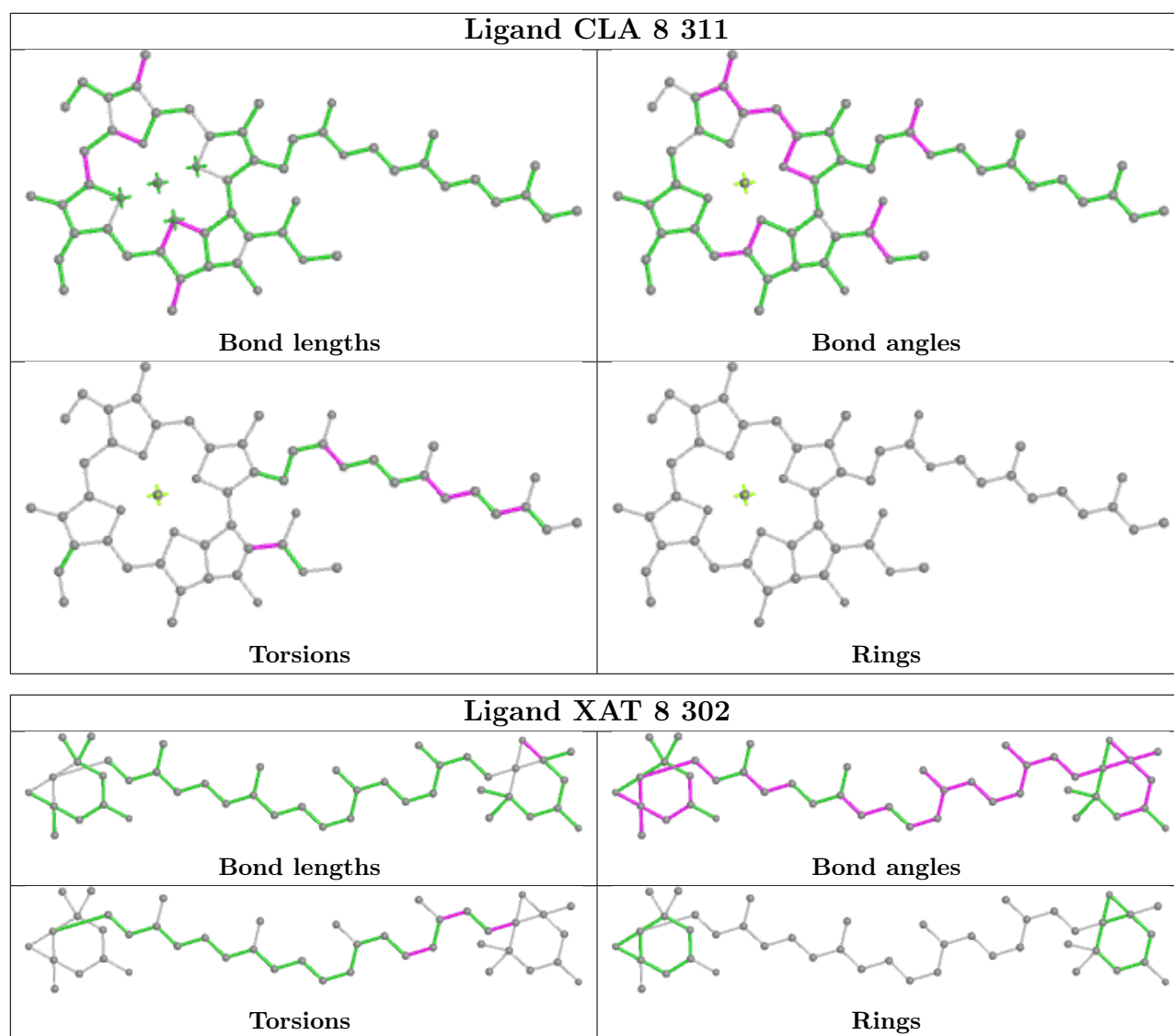


Ligand CLA 6 315

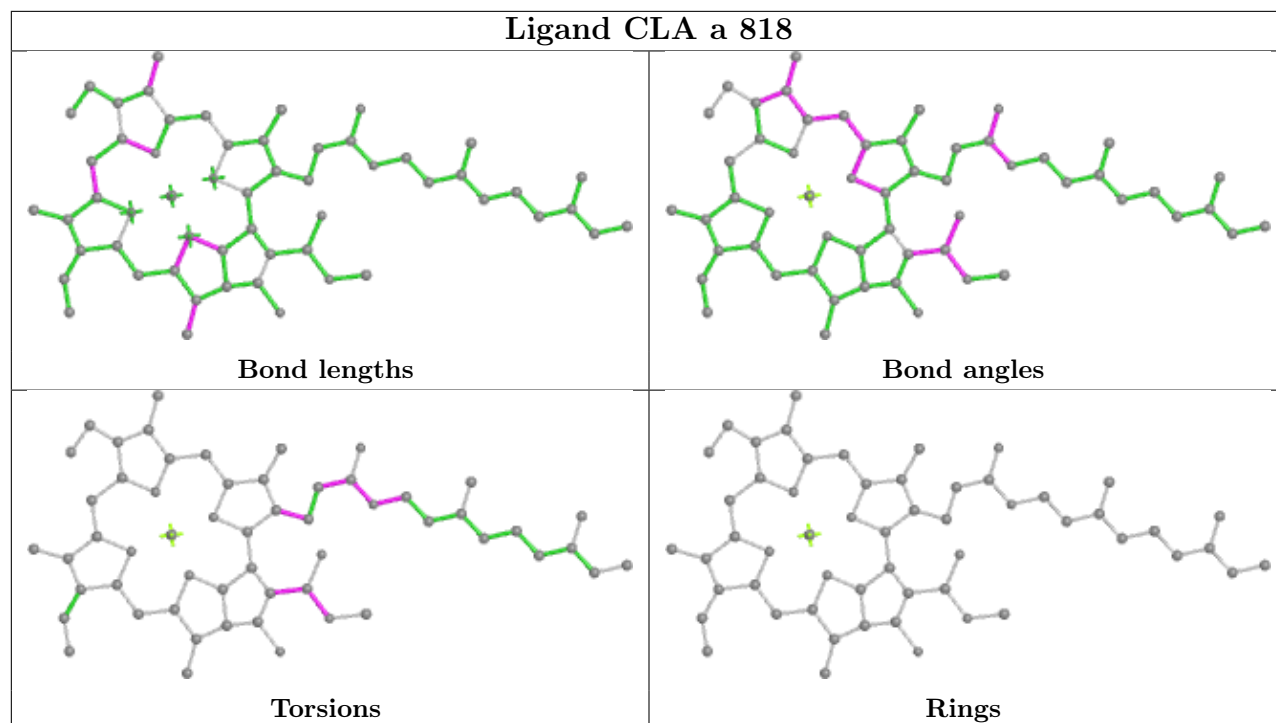


Ligand BCR b 844

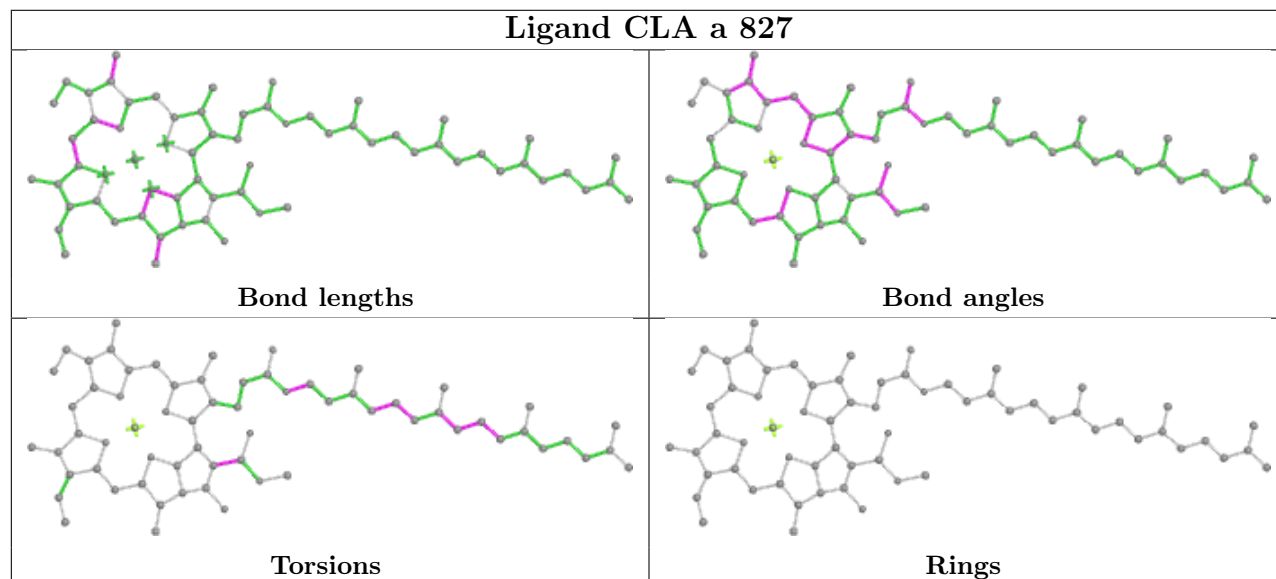


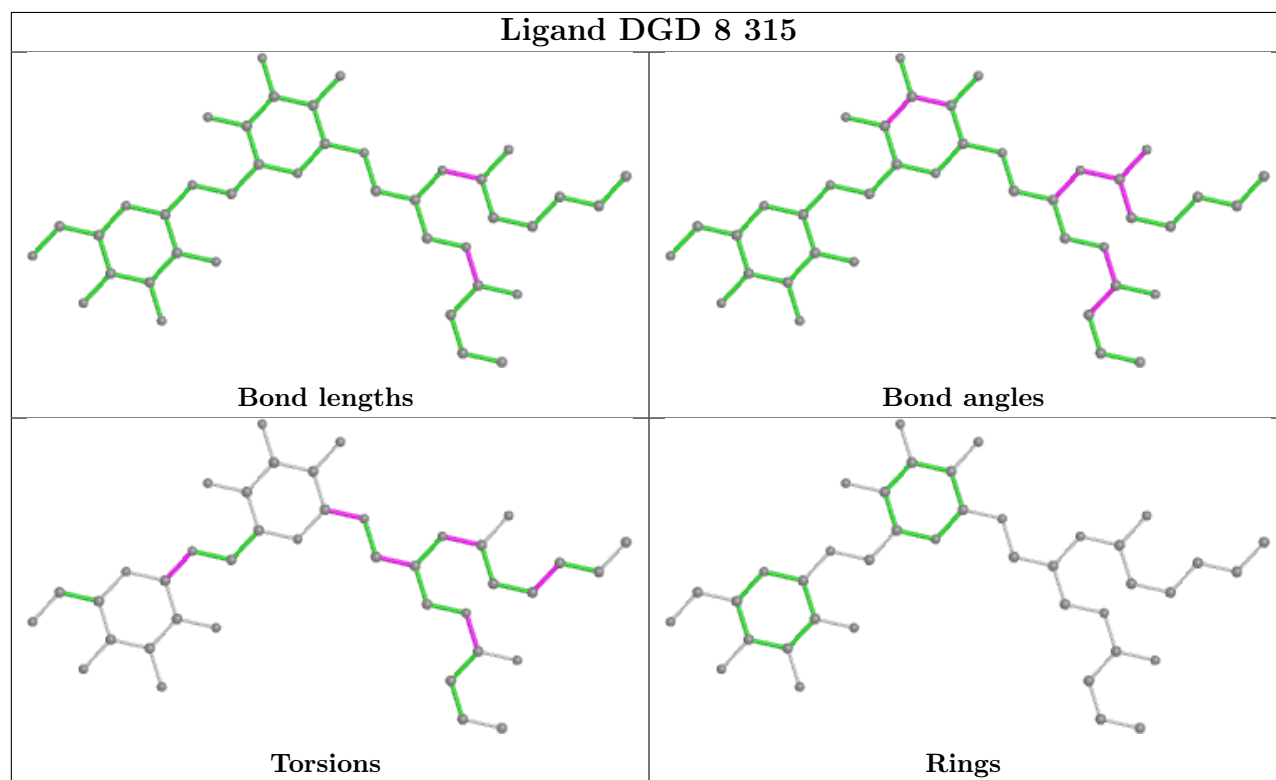
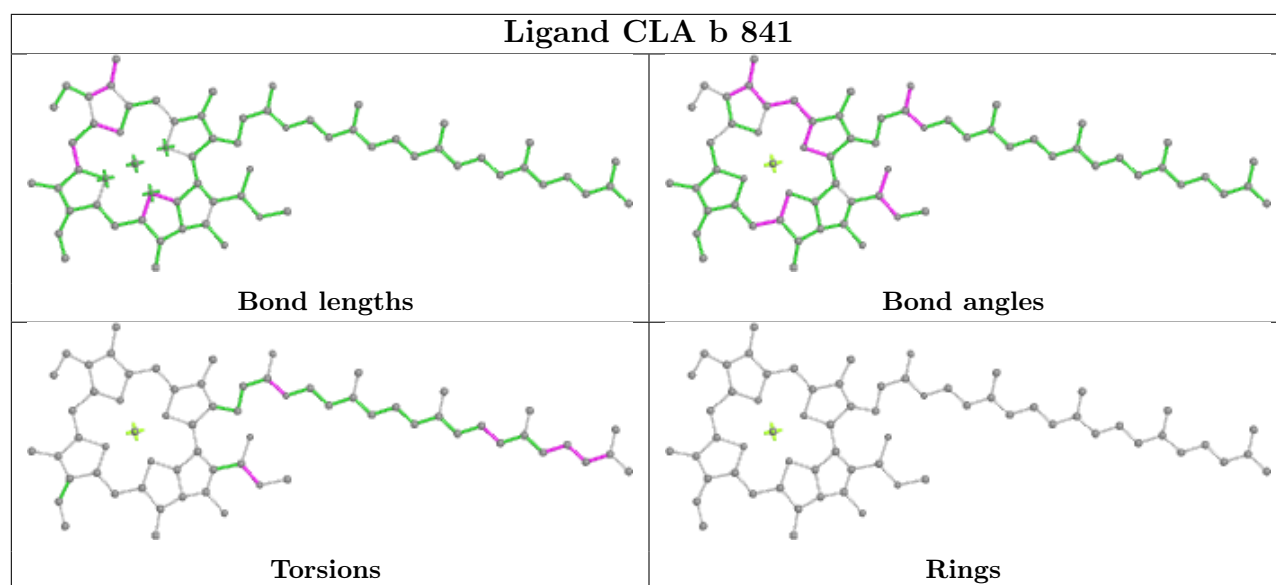


Ligand CLA a 818

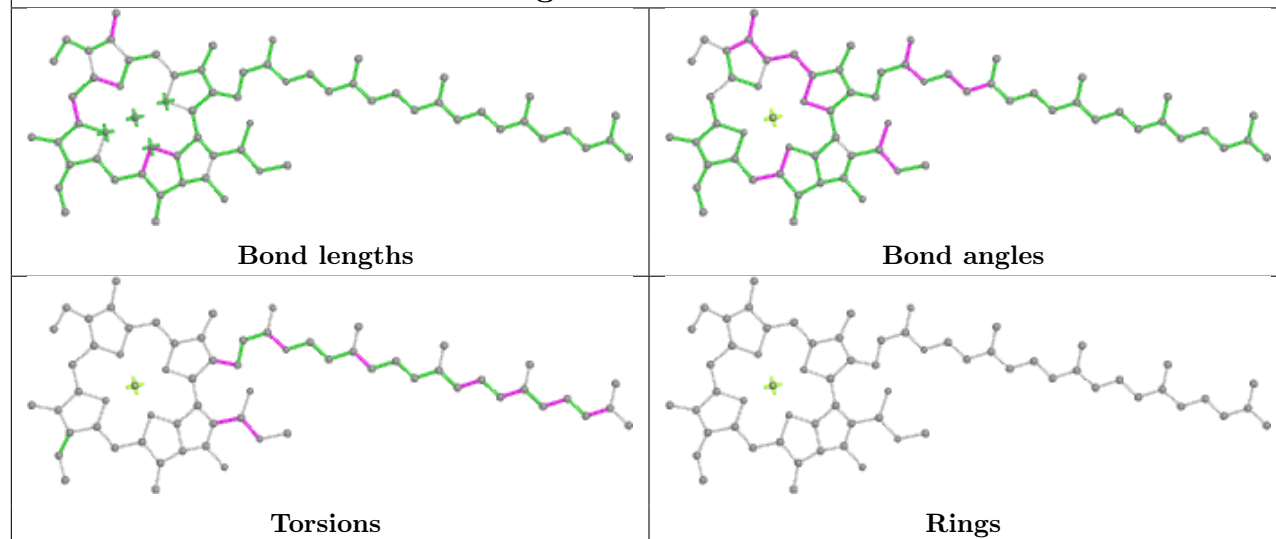


Ligand CLA a 827

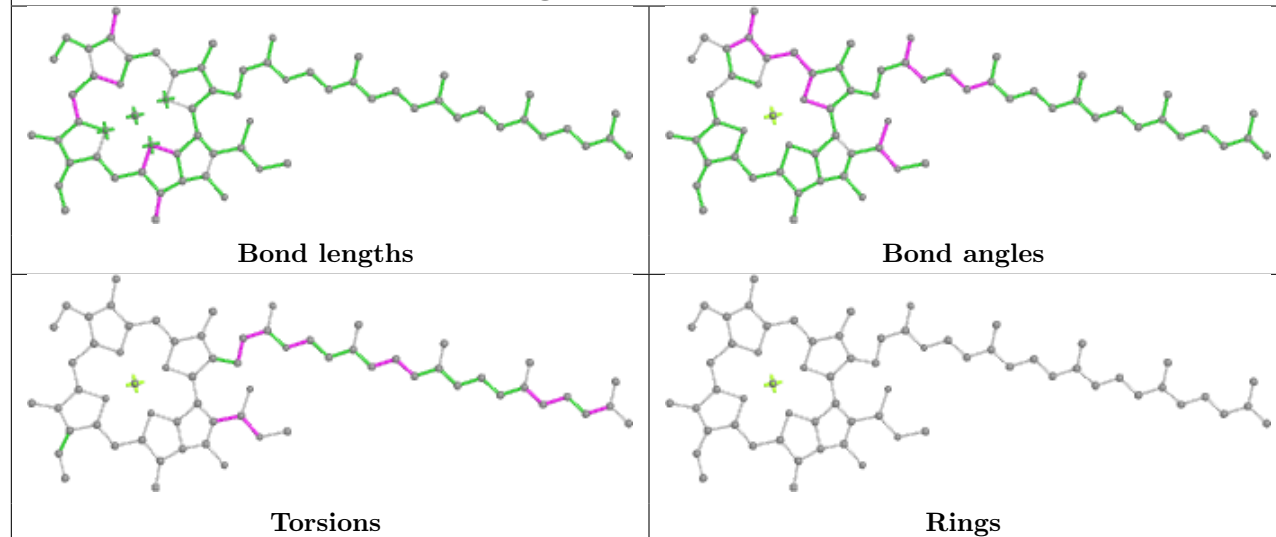


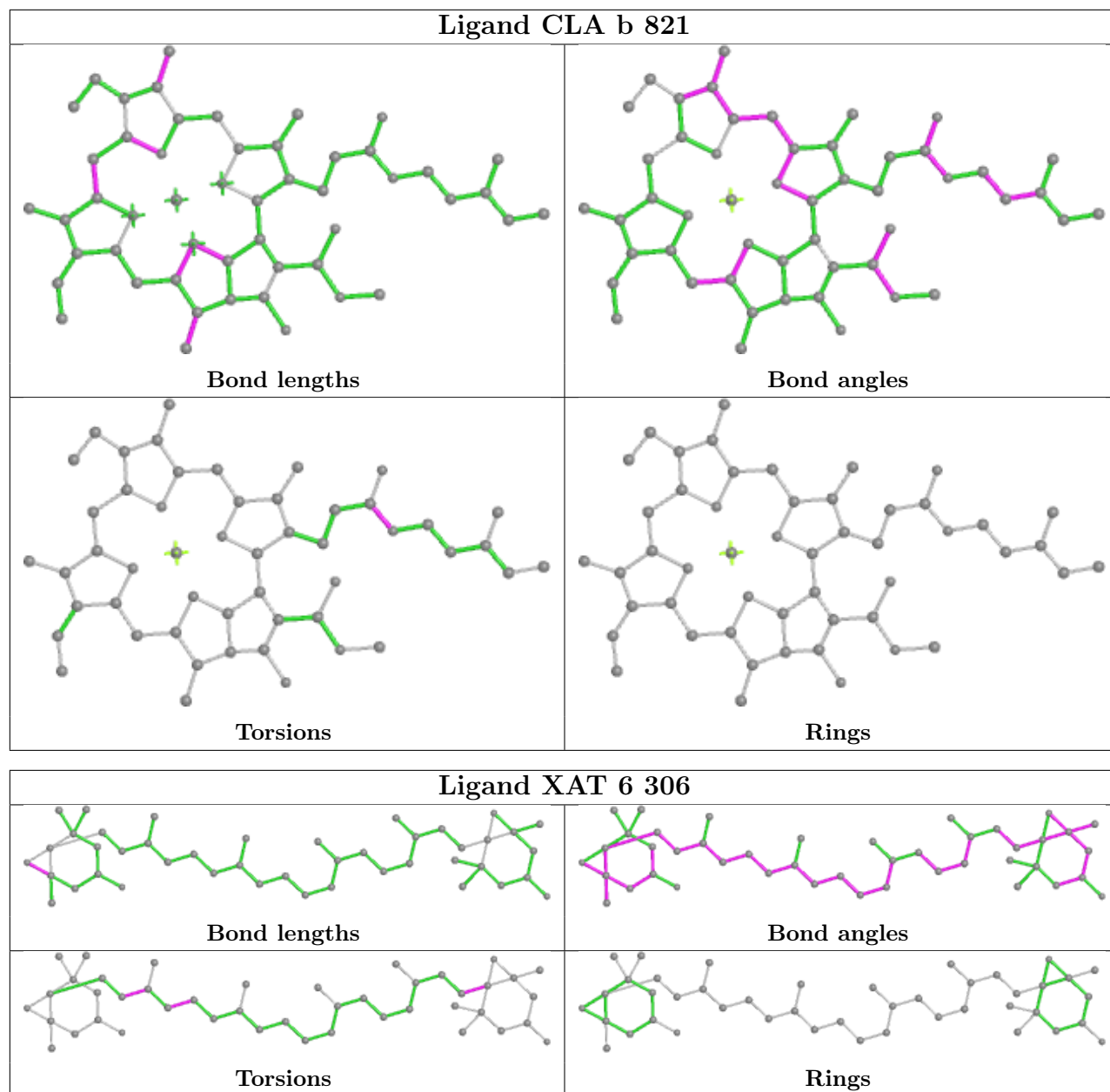


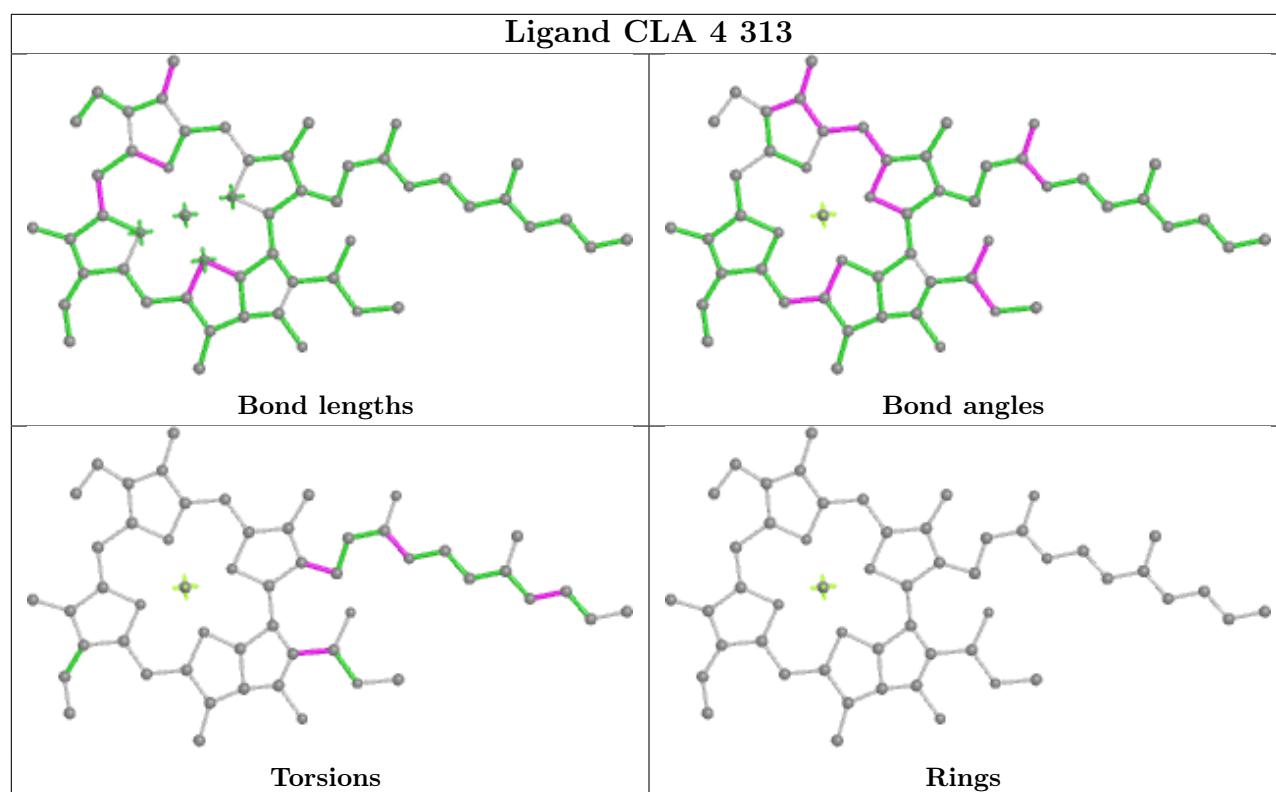
Ligand CLA a 820



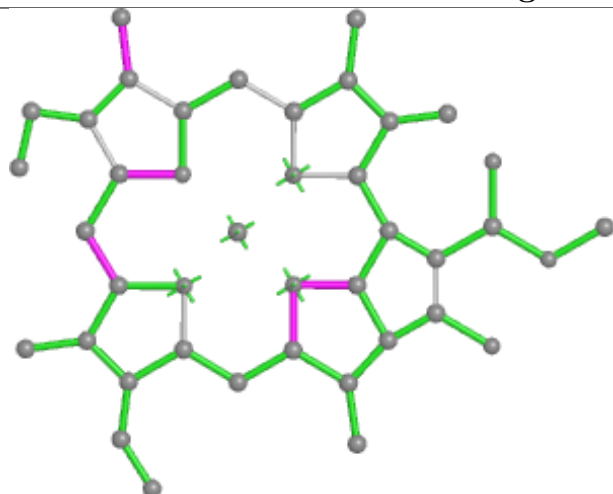
Ligand CLA a 810



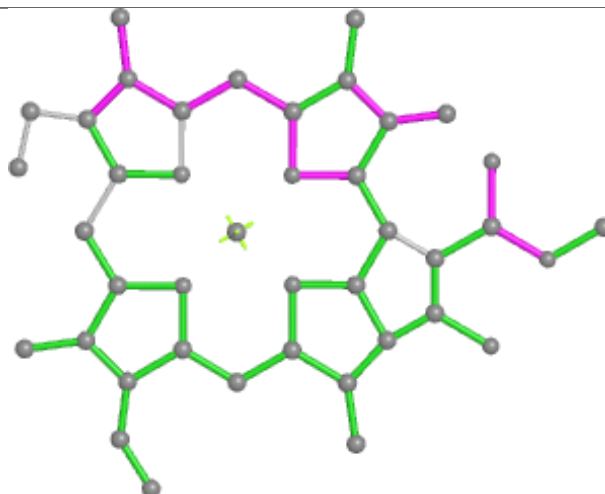




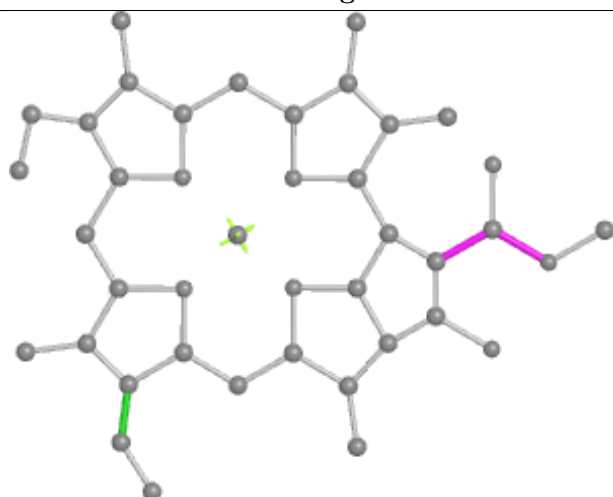
Ligand CLA 8 314



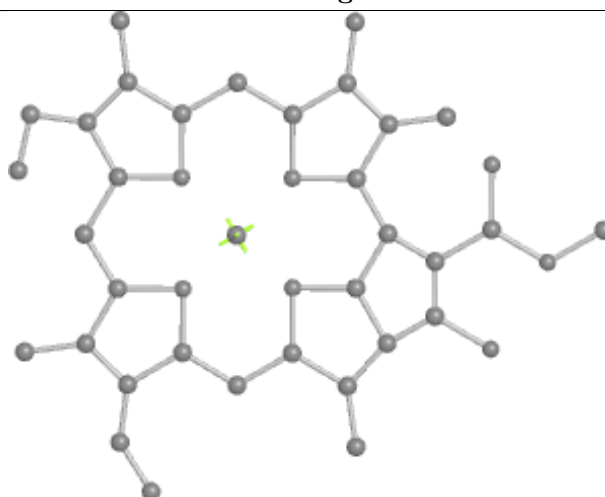
Bond lengths



Bond angles

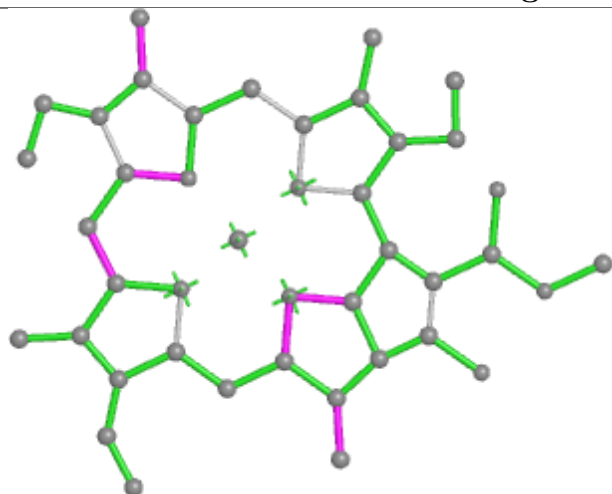


Torsions

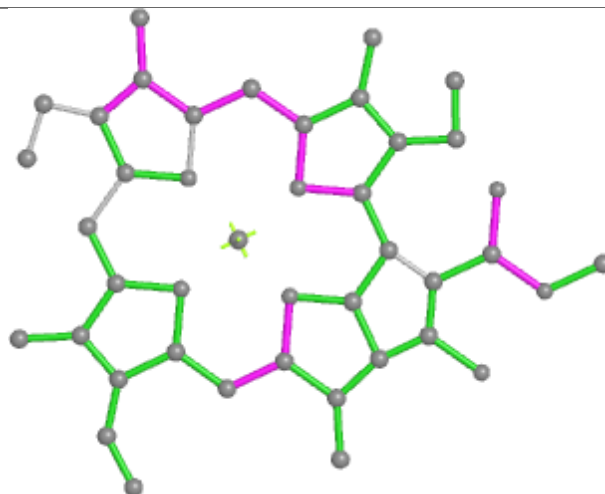


Rings

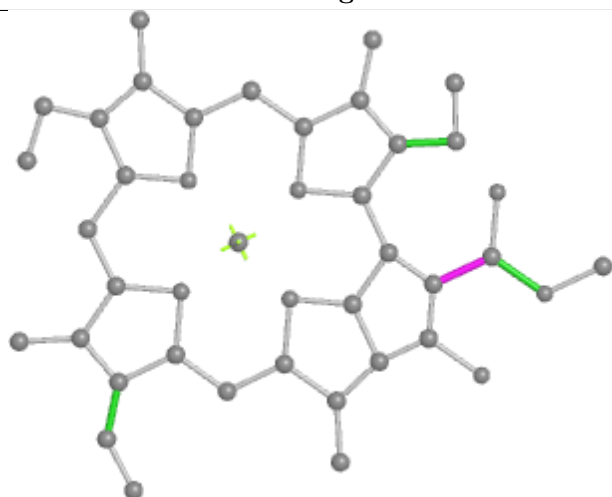
Ligand CLA 1 201



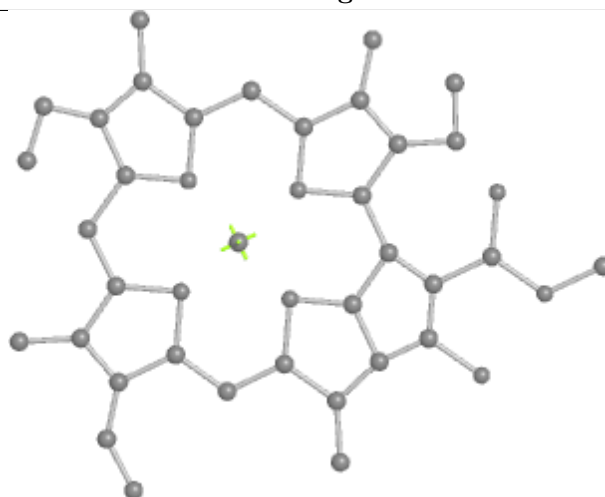
Bond lengths



Bond angles

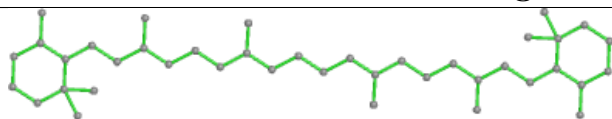


Torsions

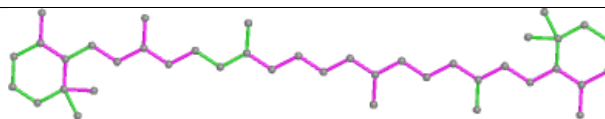


Rings

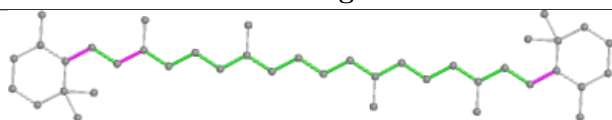
Ligand BCR b 852



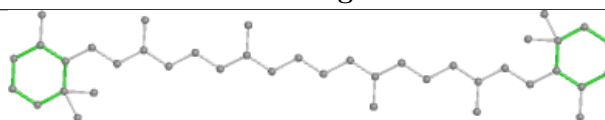
Bond lengths



Bond angles

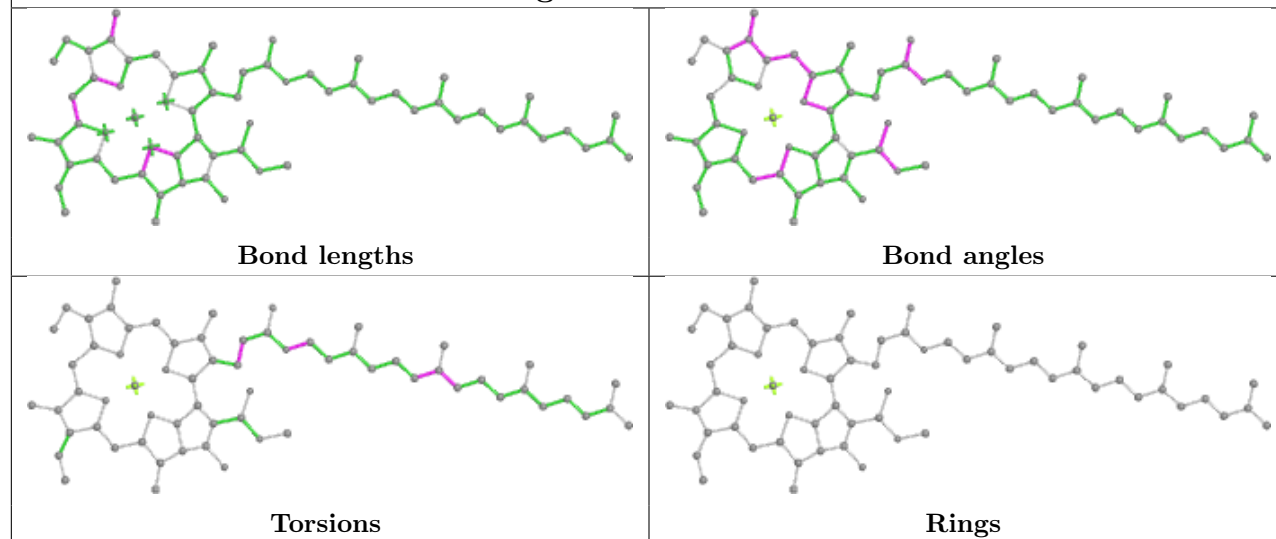


Torsions

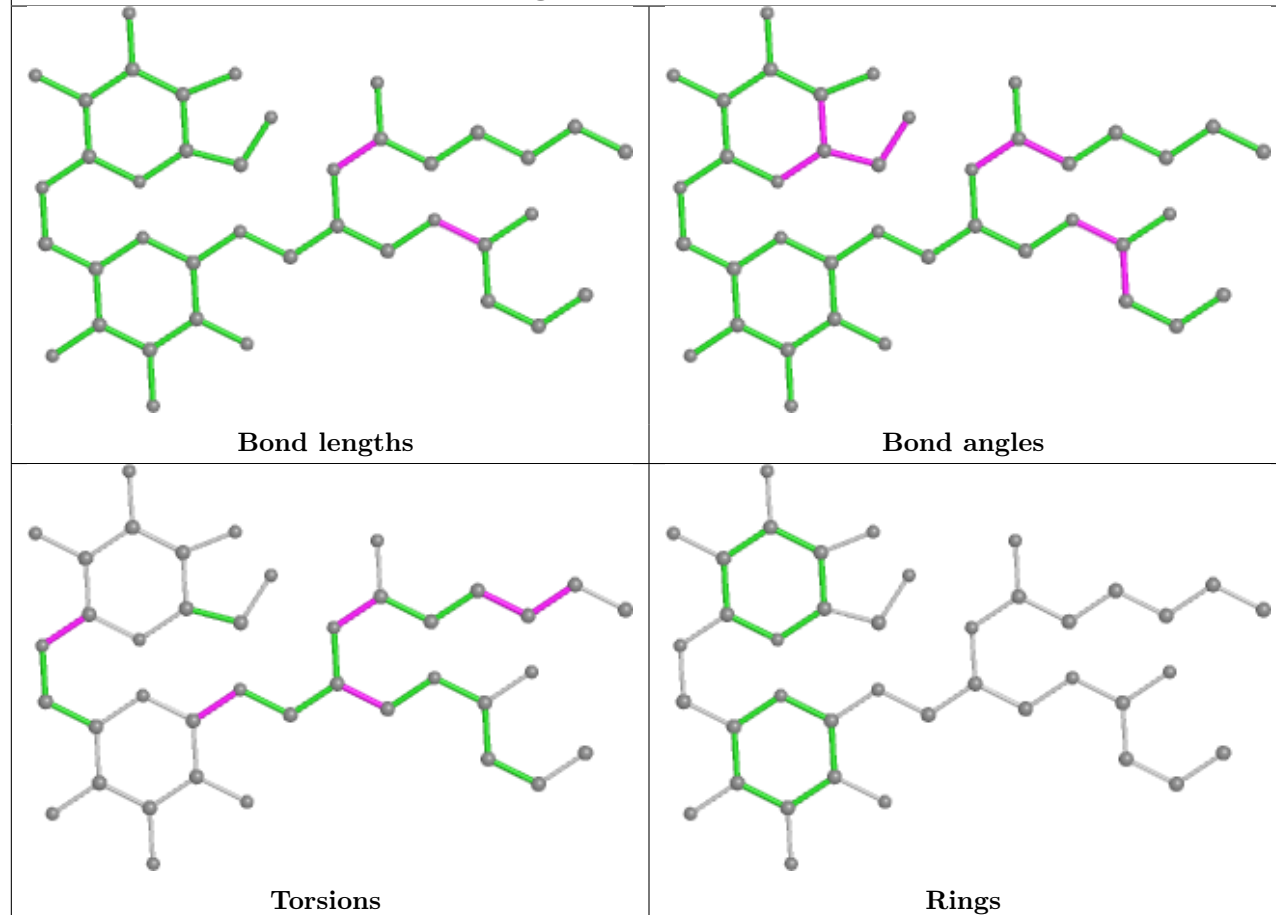


Rings

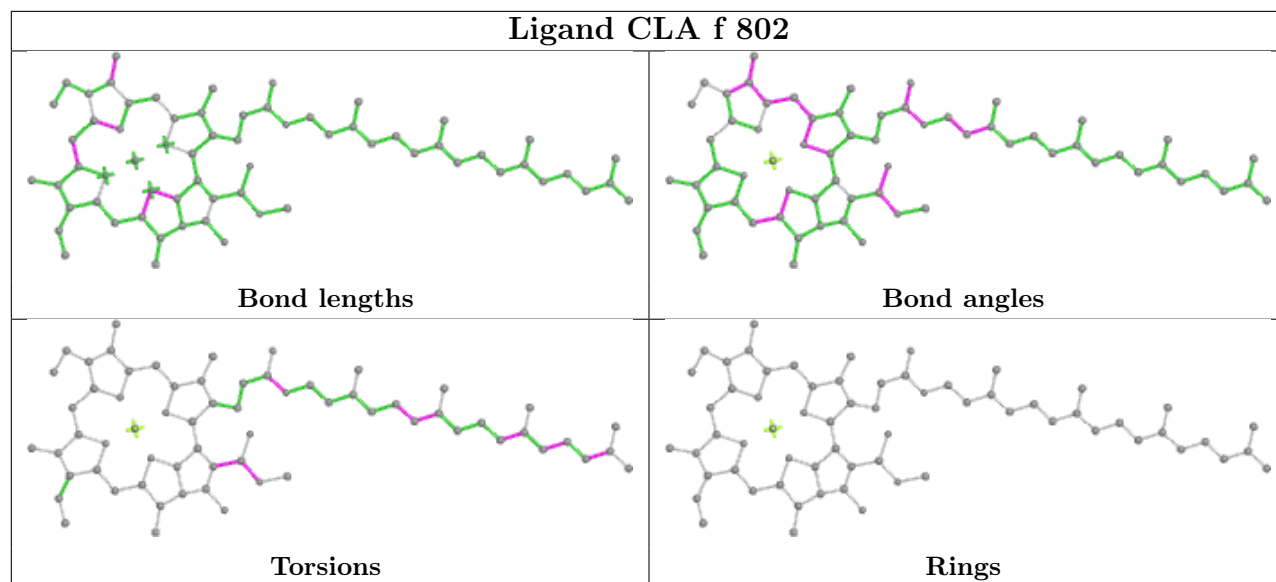
Ligand CLA a 822



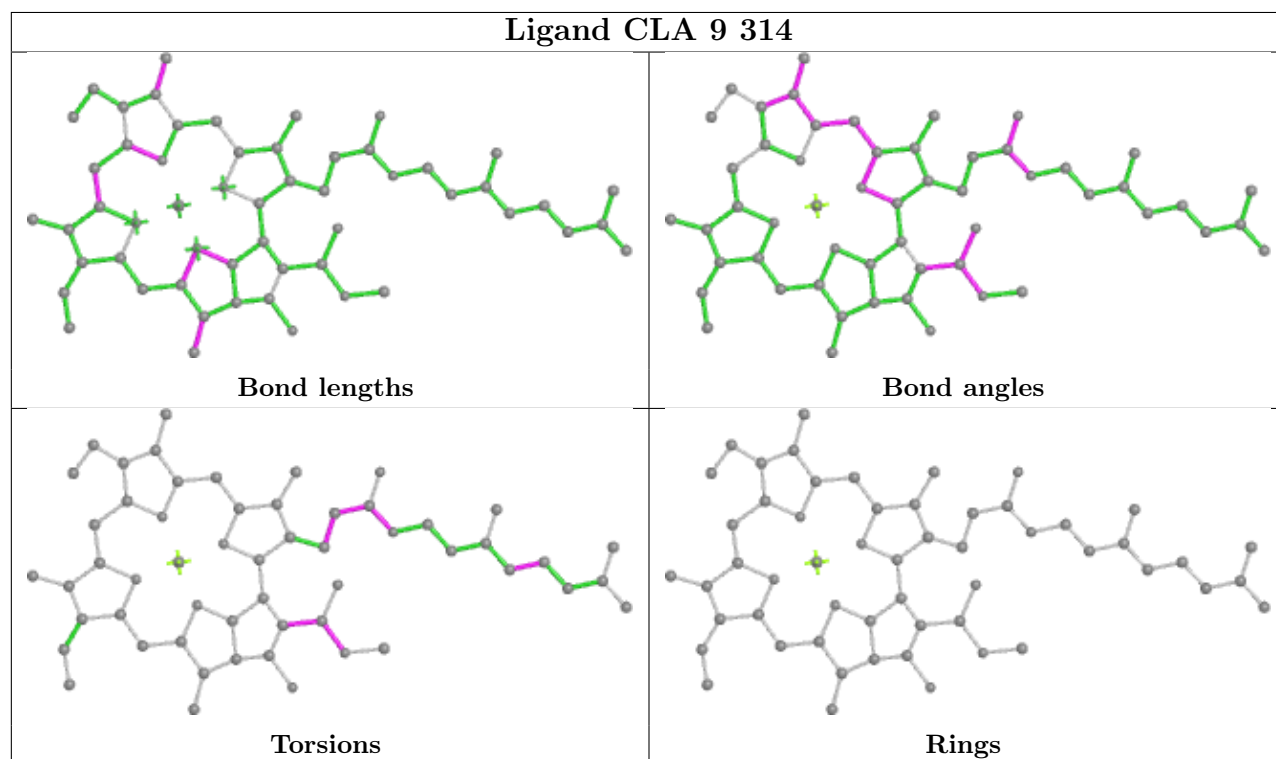
Ligand DGD 4 318



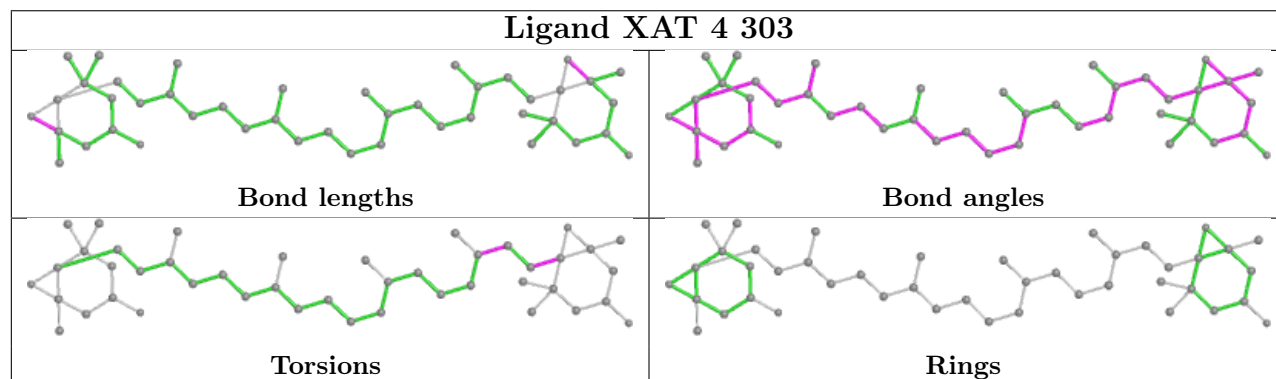
Ligand CLA f 802

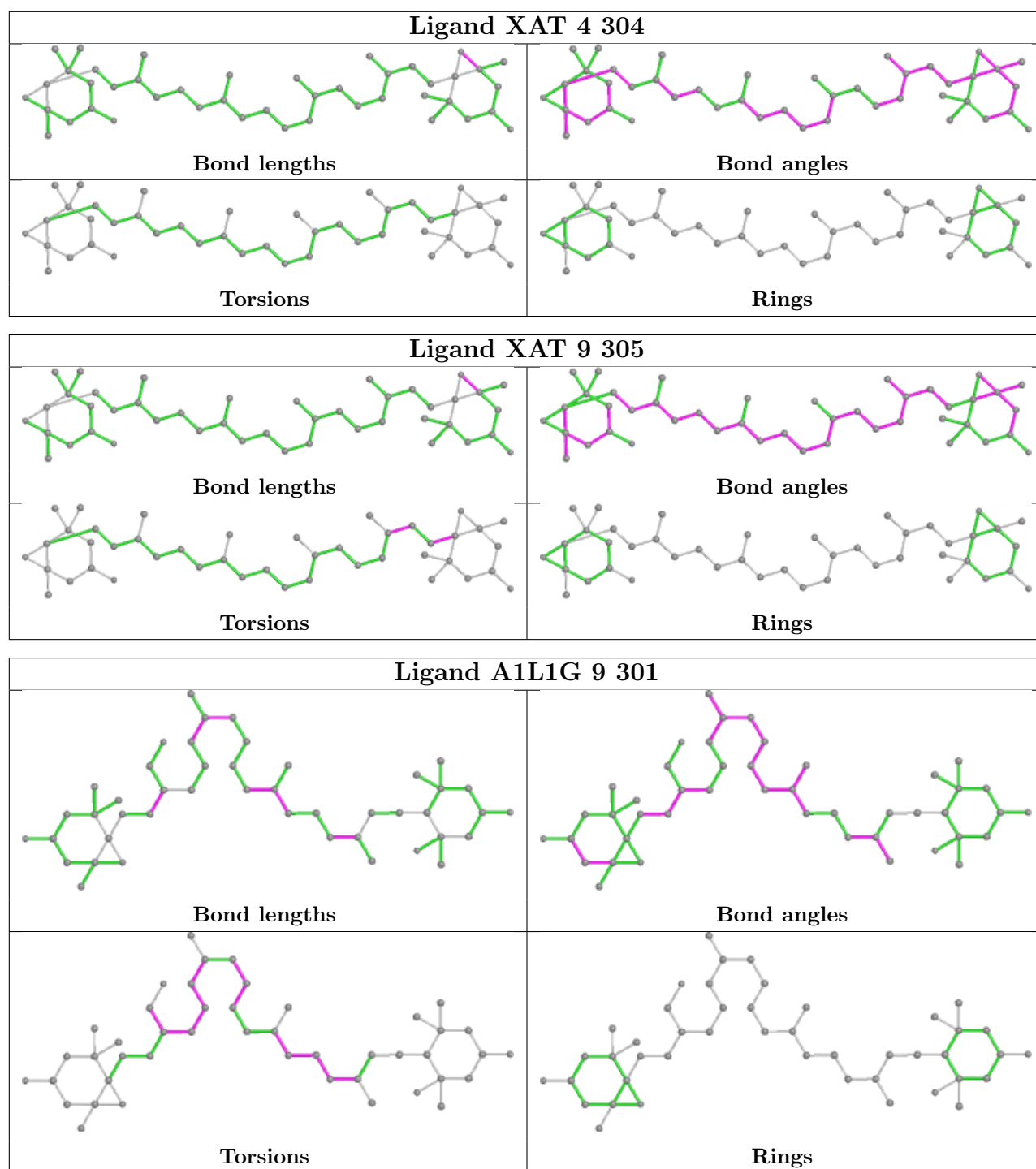


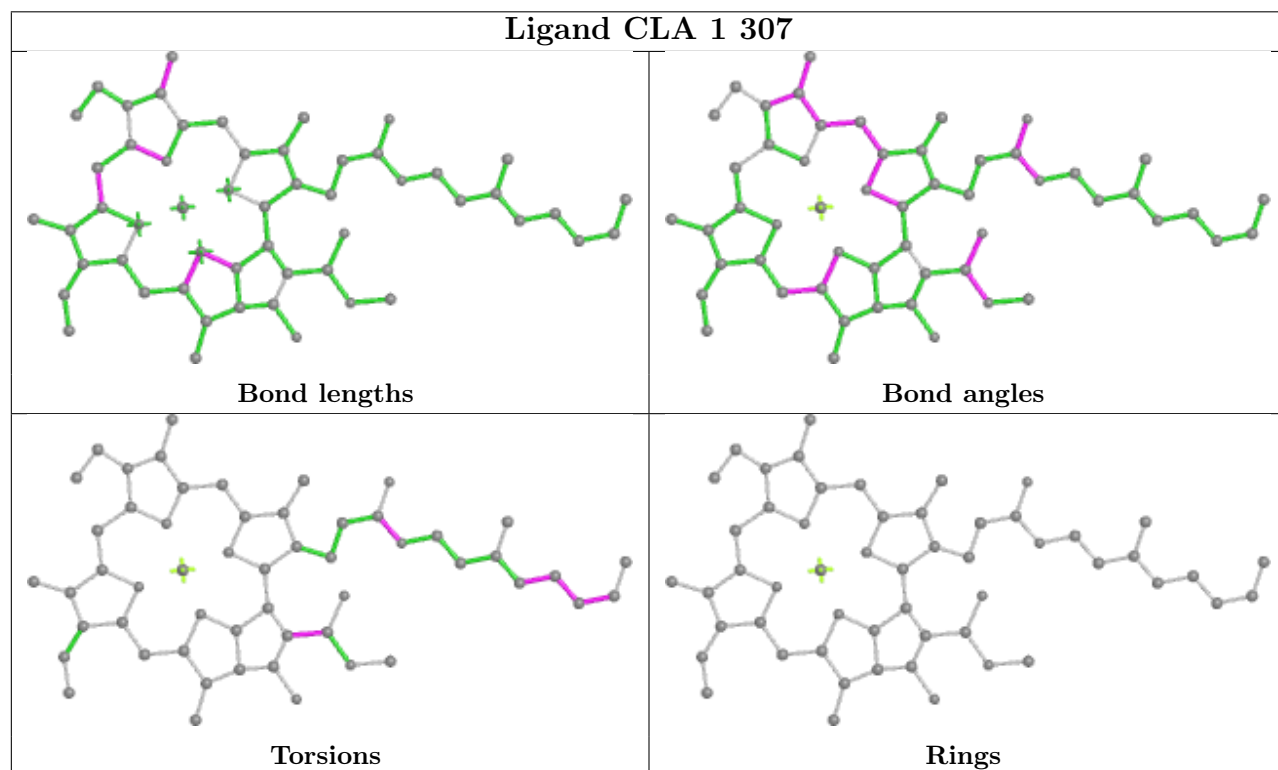
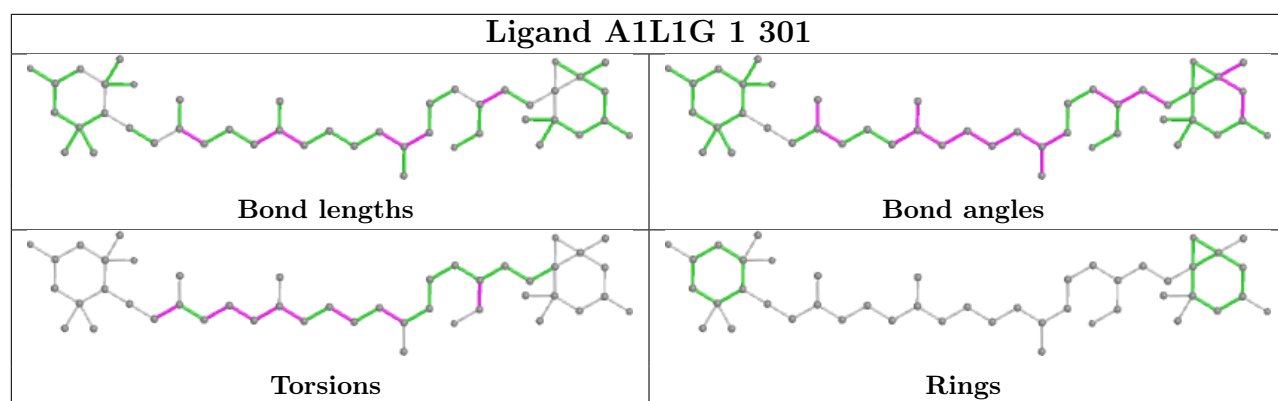
Ligand CLA 9 314



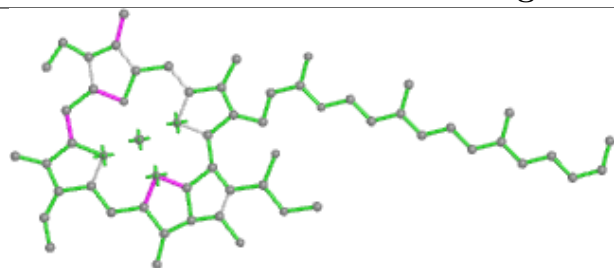
Ligand XAT 4 303



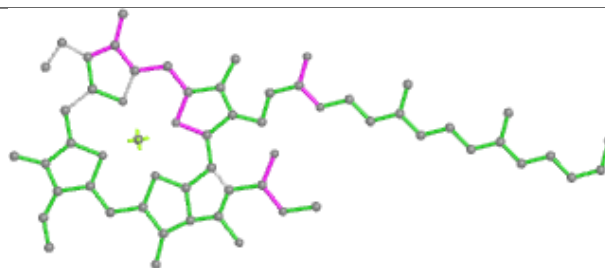




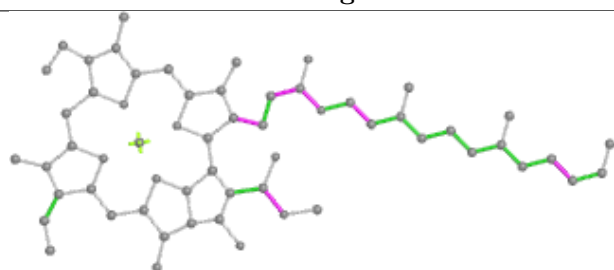
Ligand CLA b 817



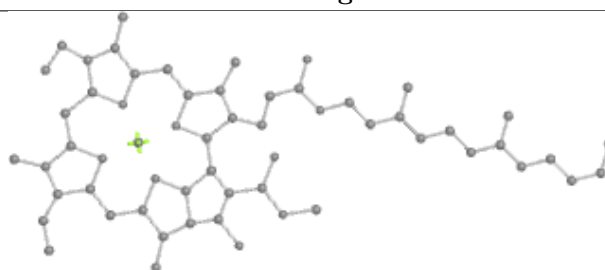
Bond lengths



Bond angles

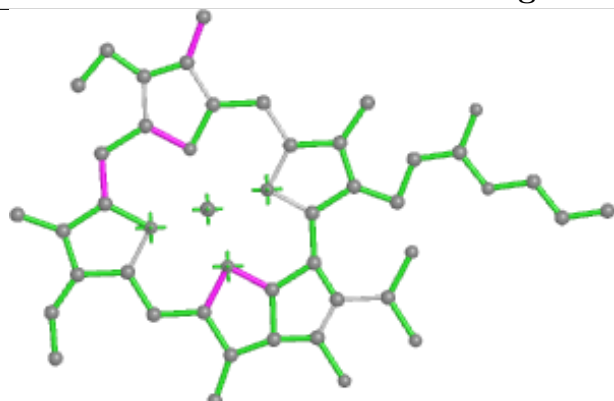


Torsions

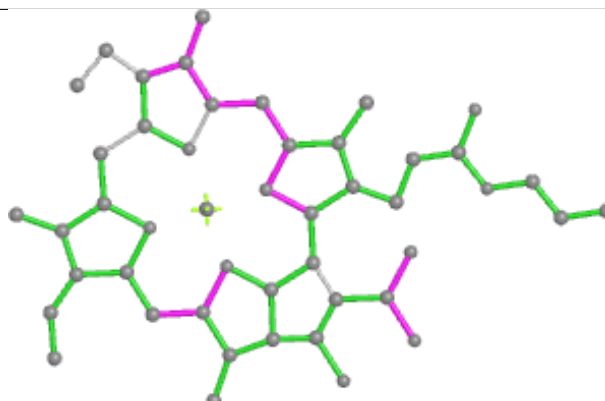


Rings

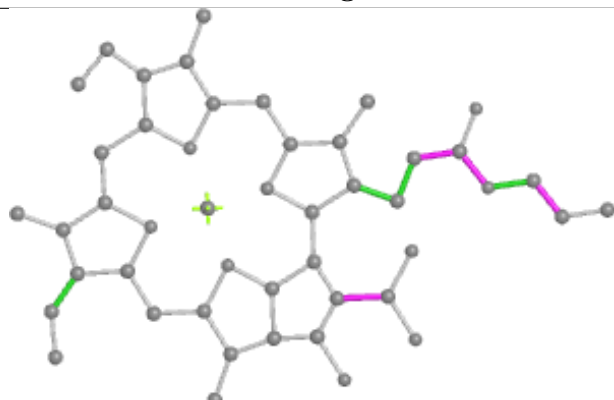
Ligand CLA 7 309



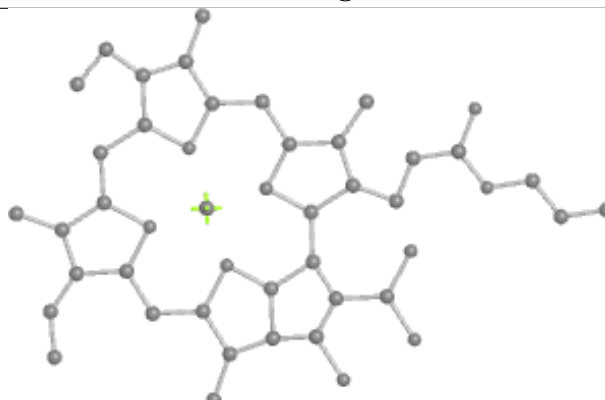
Bond lengths



Bond angles

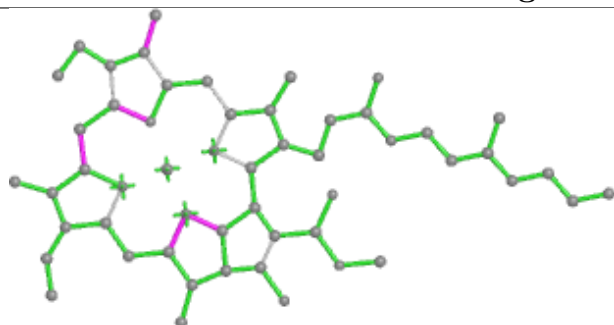


Torsions

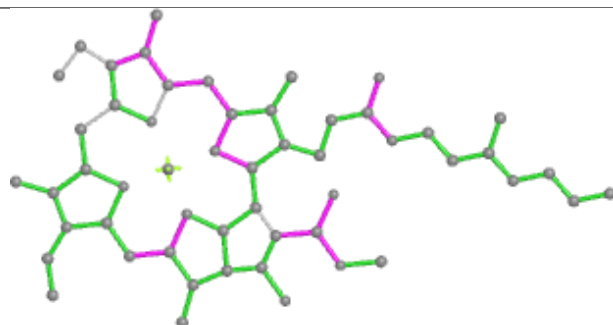


Rings

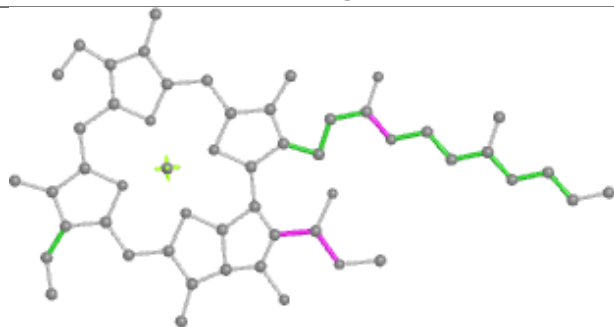
Ligand CLA 1 311



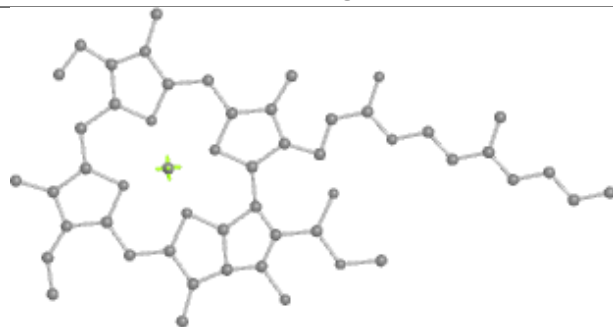
Bond lengths



Bond angles

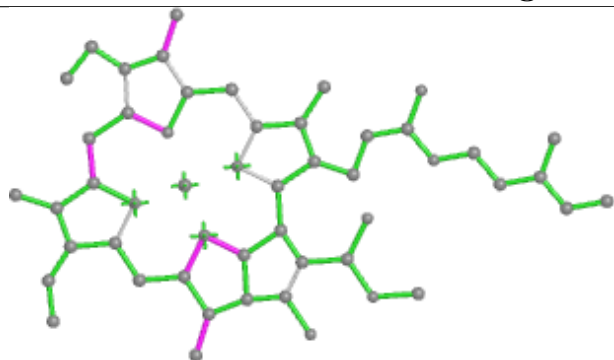


Torsions

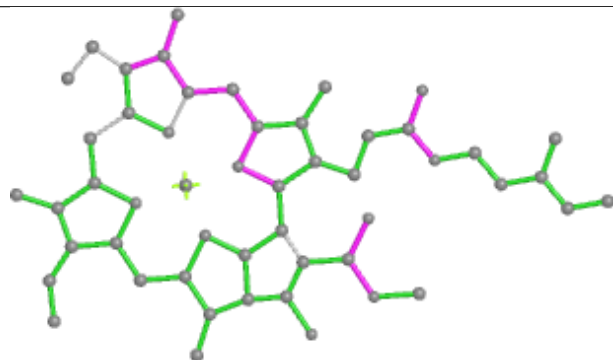


Rings

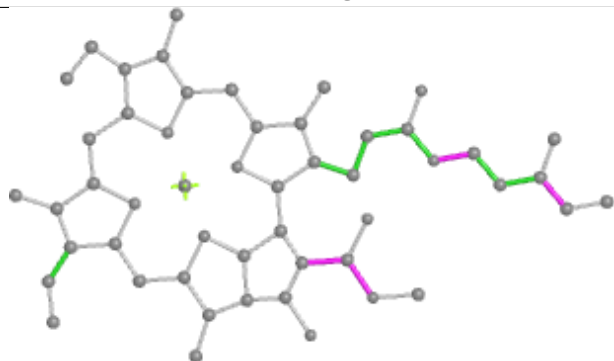
Ligand CLA 6 312



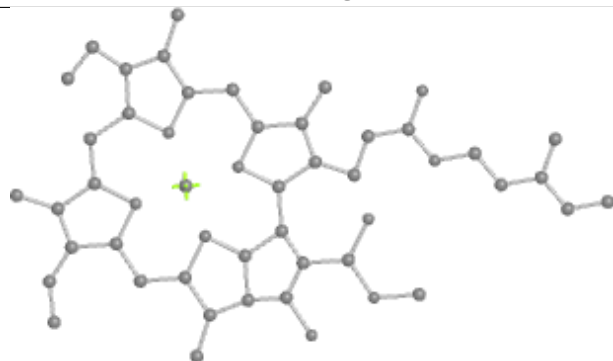
Bond lengths



Bond angles

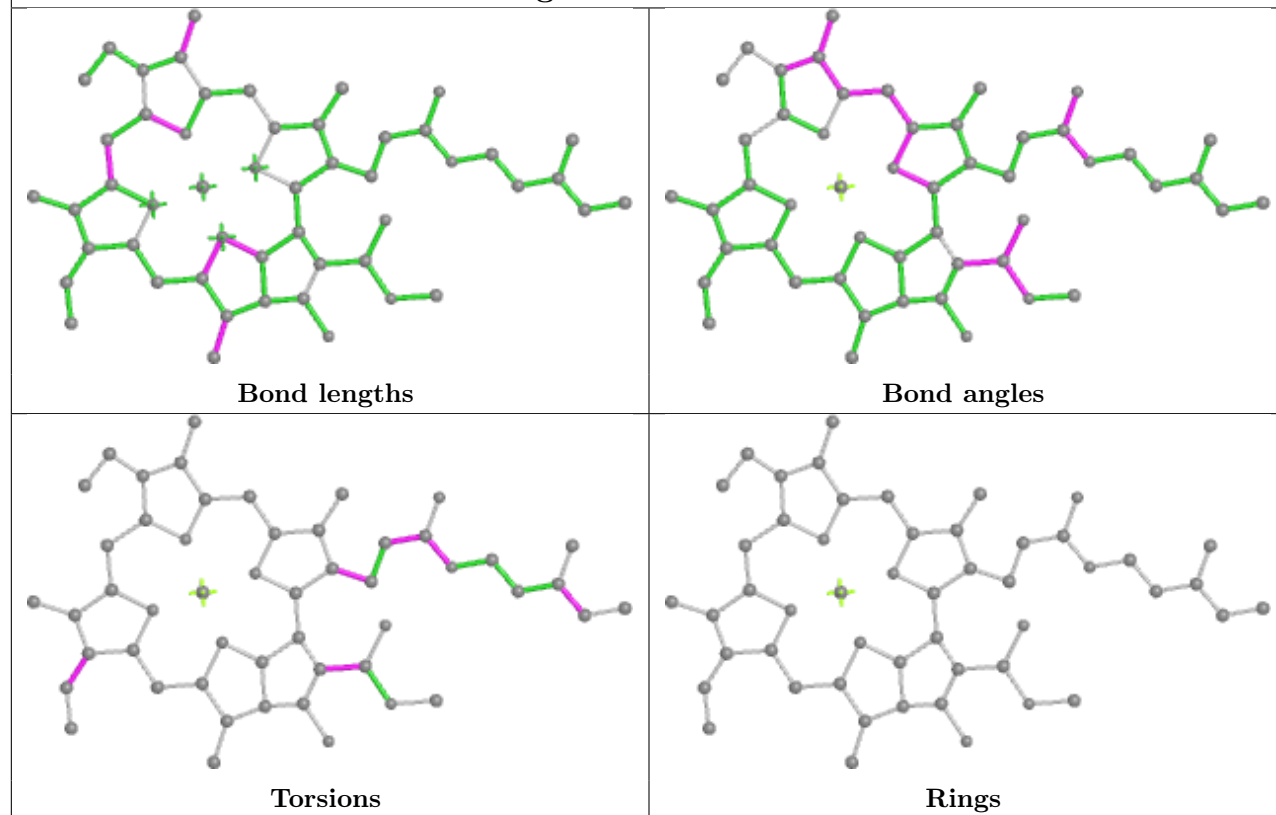


Torsions

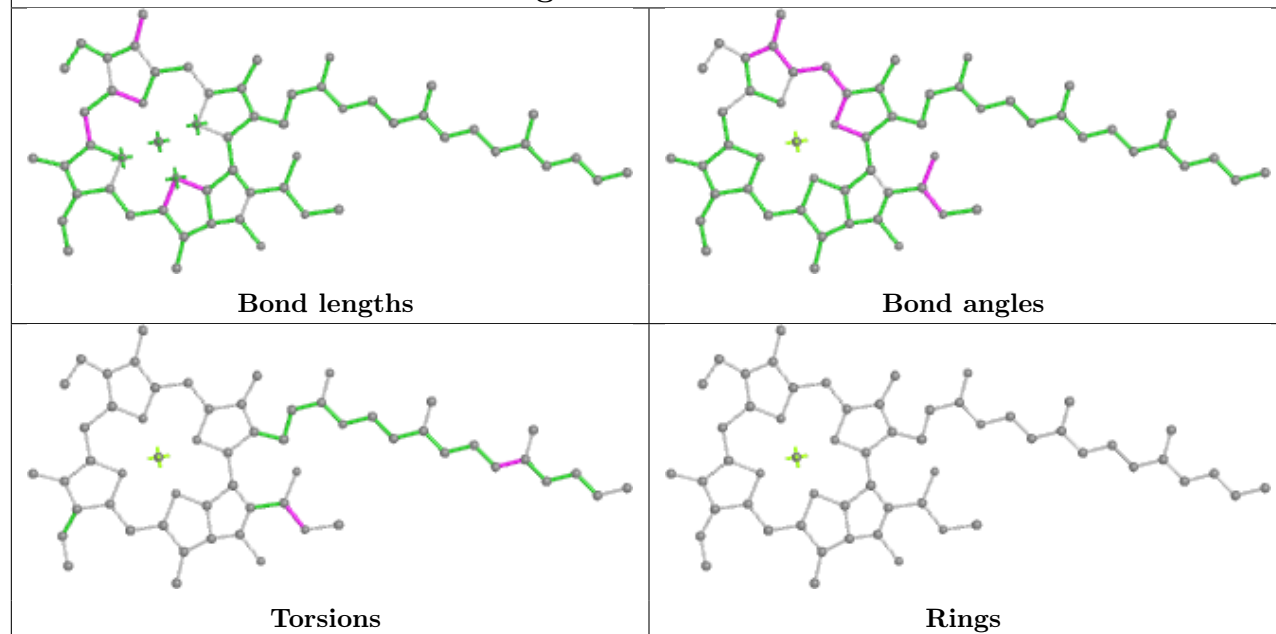


Rings

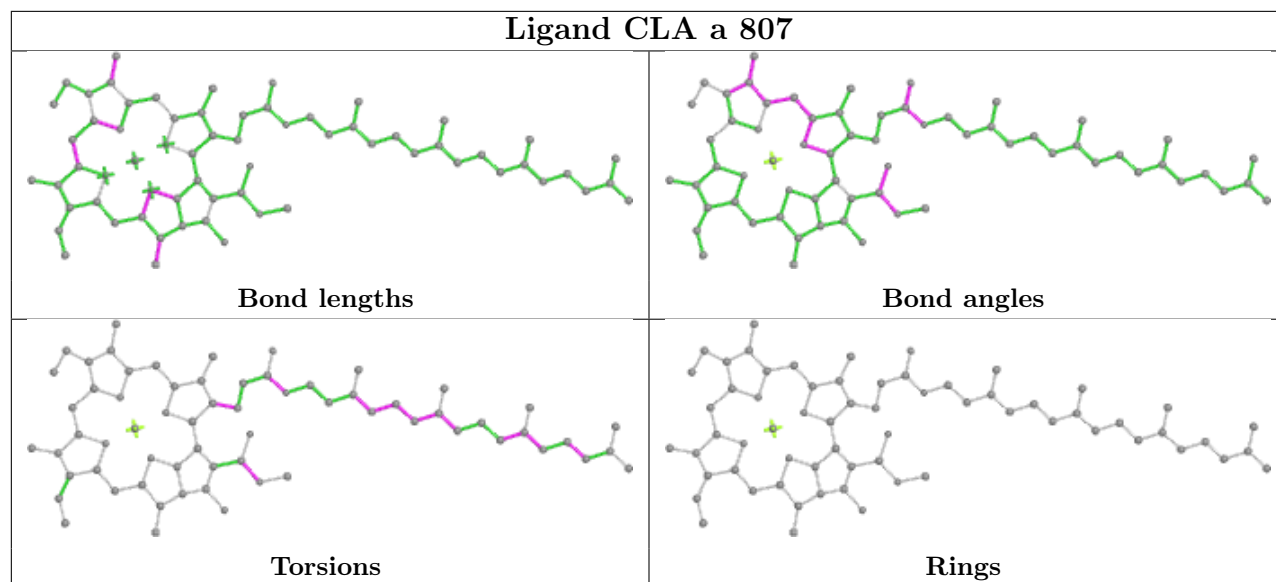
Ligand CLA 7 316



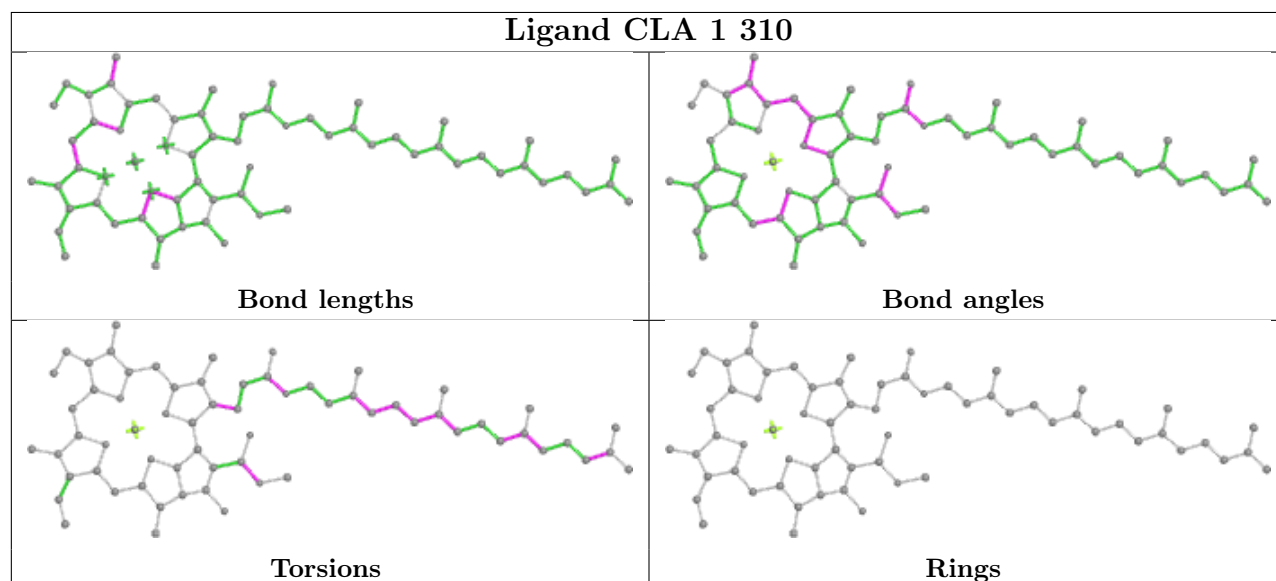
Ligand CLA 6 308



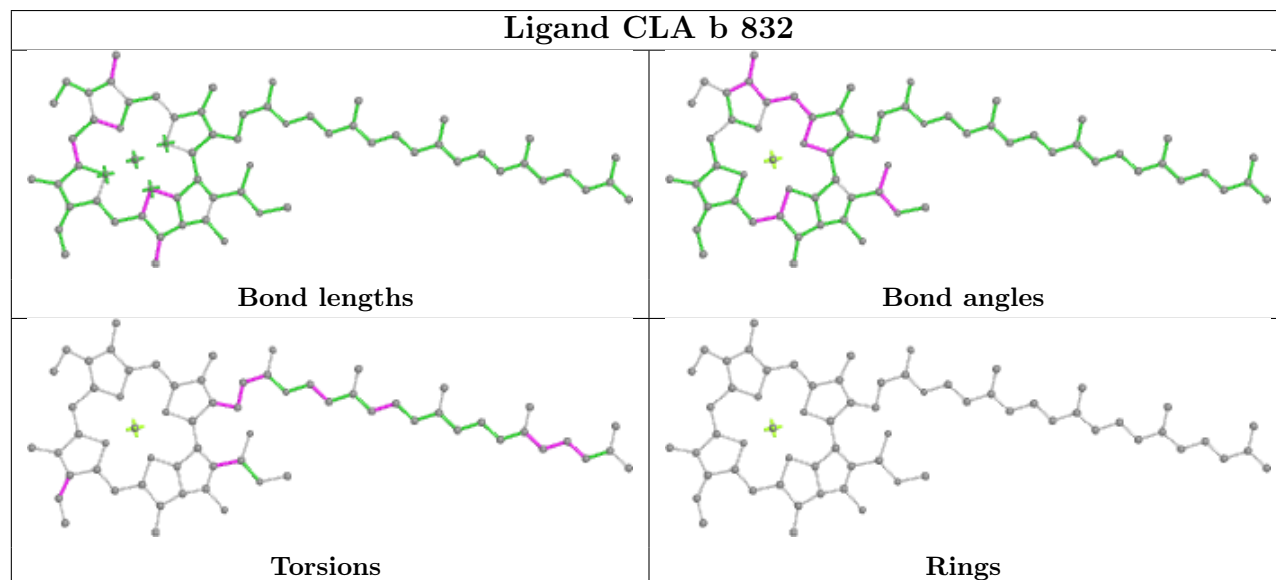
Ligand CLA a 807



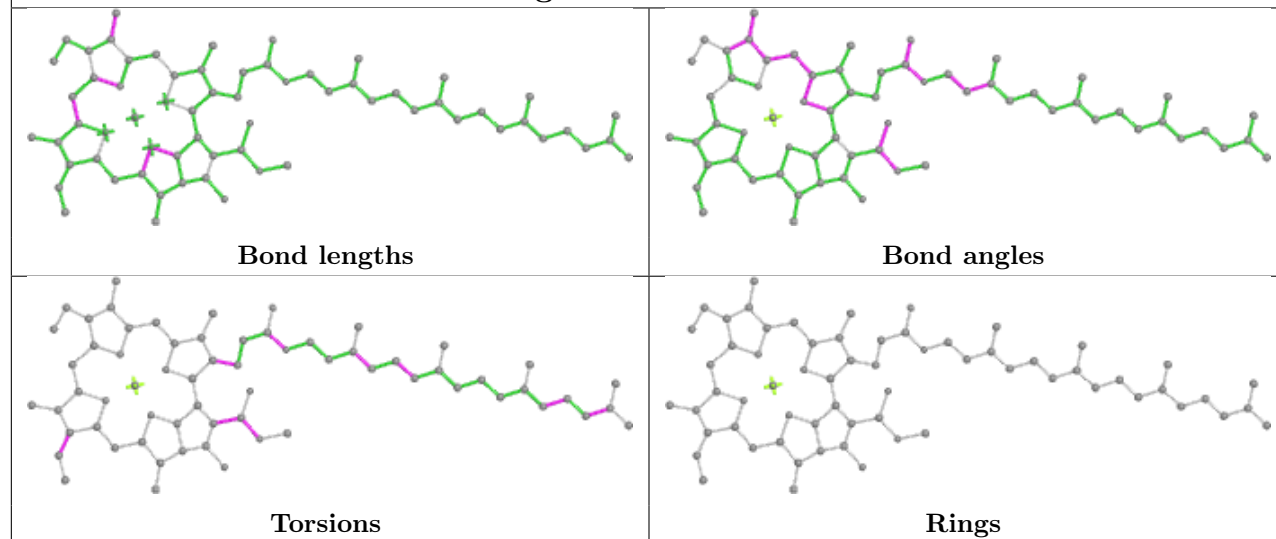
Ligand CLA 1 310



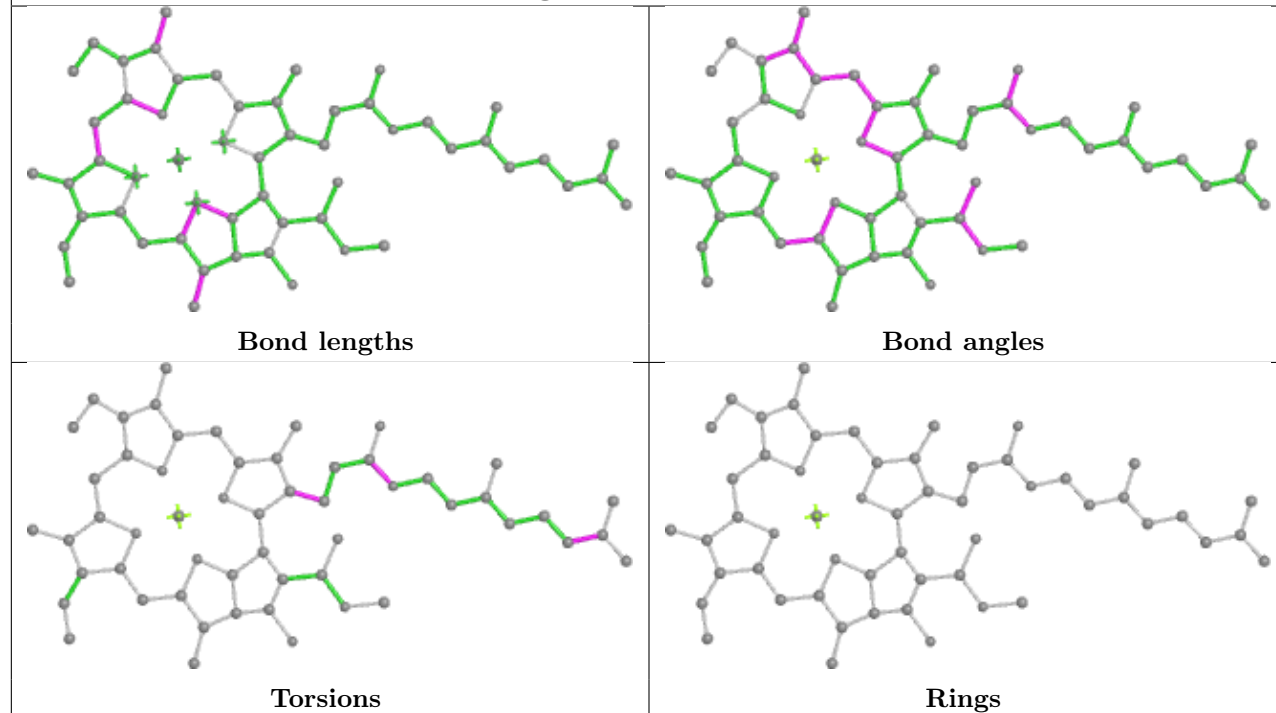
Ligand CLA b 832



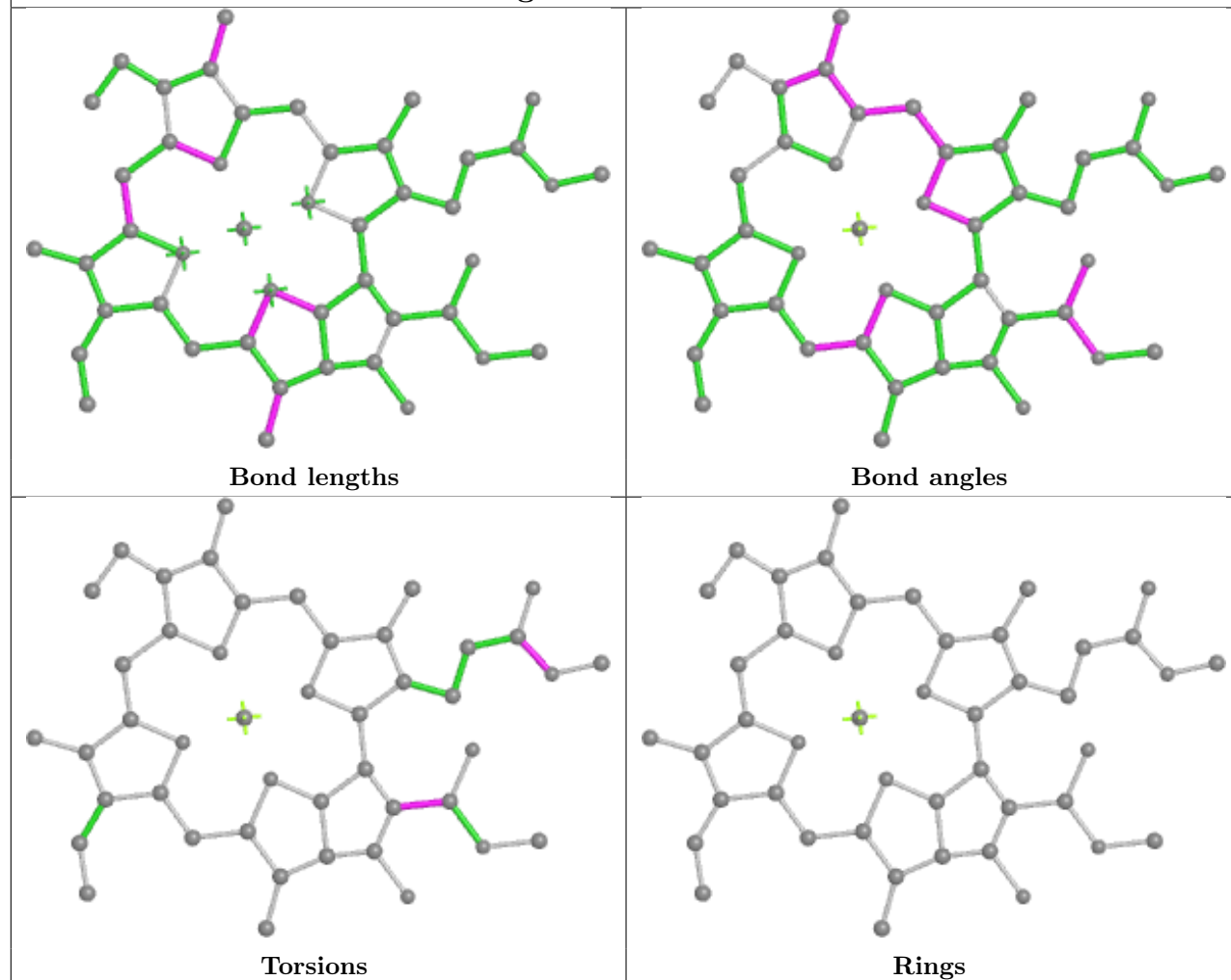
Ligand CLA b 840



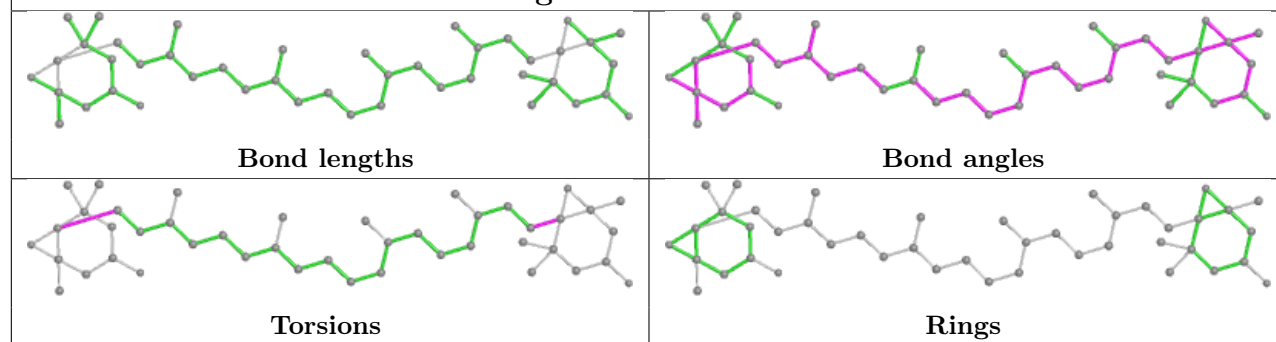
Ligand CLA a 805

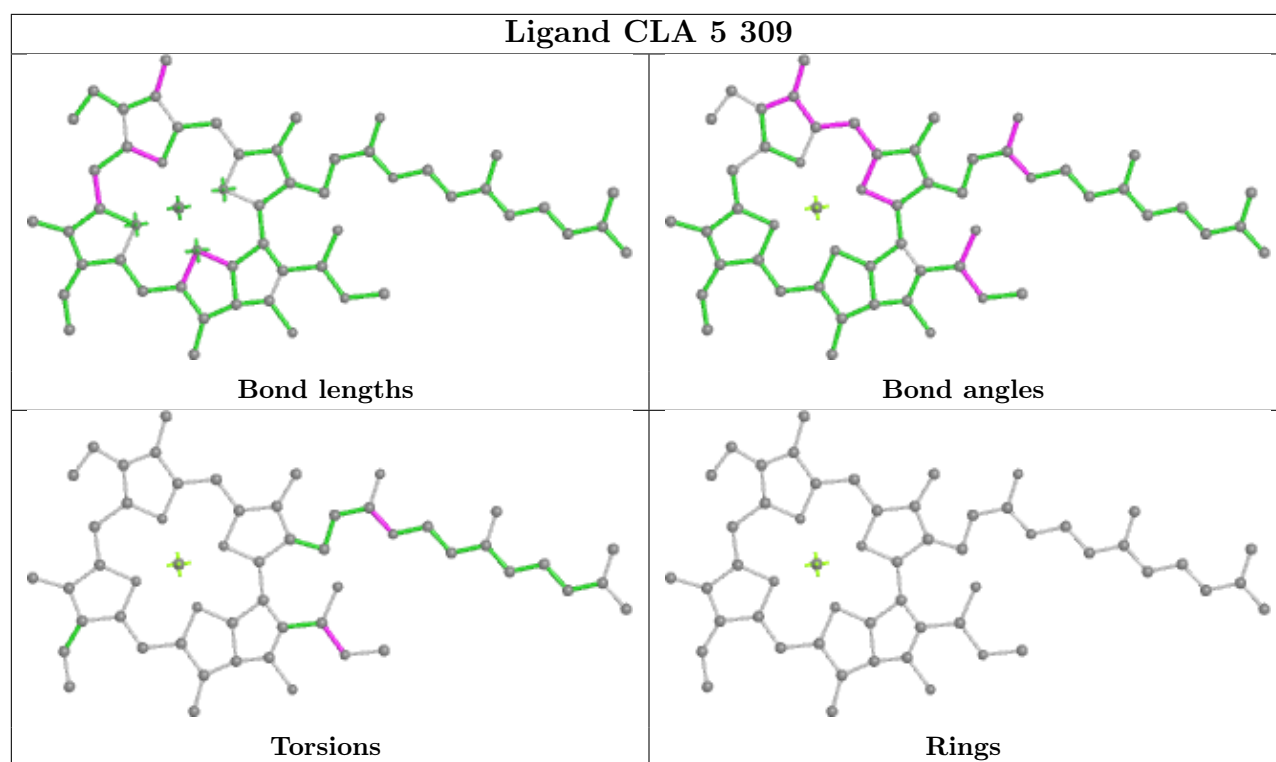


Ligand CLA 8 313

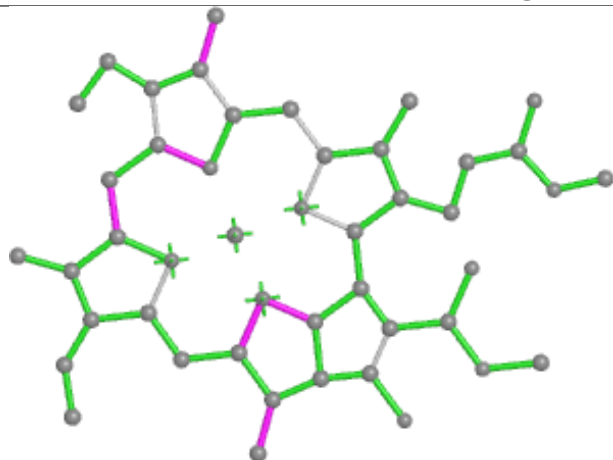


Ligand XAT 7 305

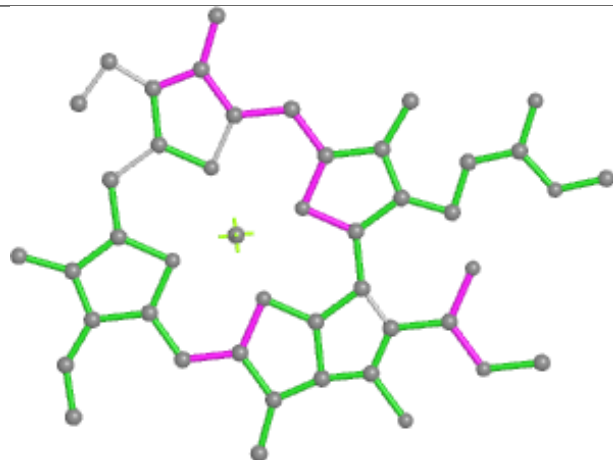




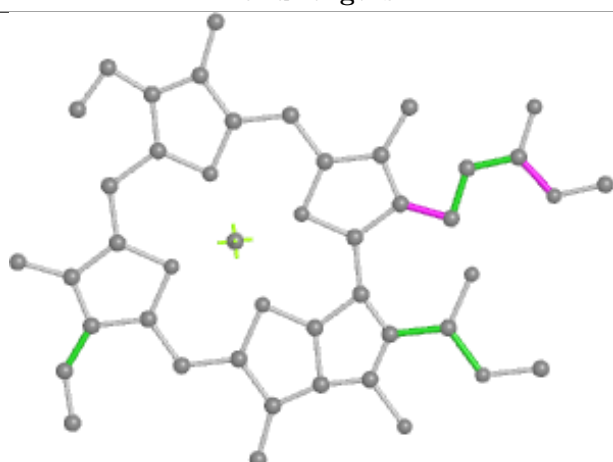
Ligand CLA 4 312



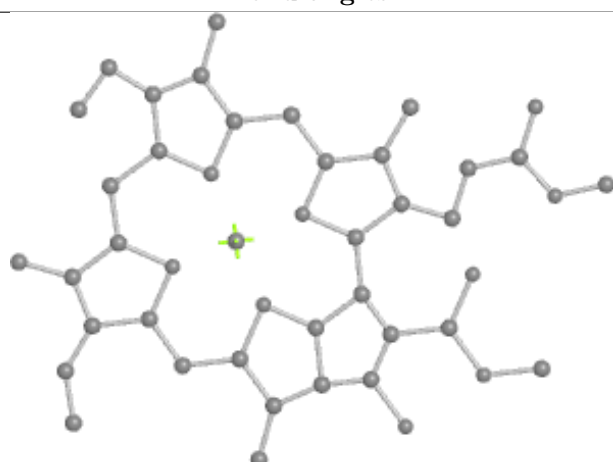
Bond lengths



Bond angles

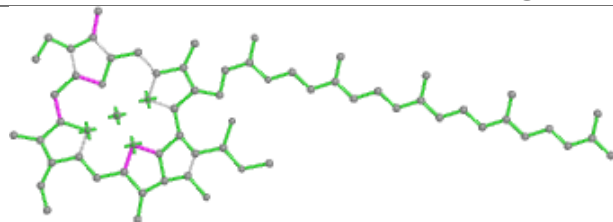


Torsions

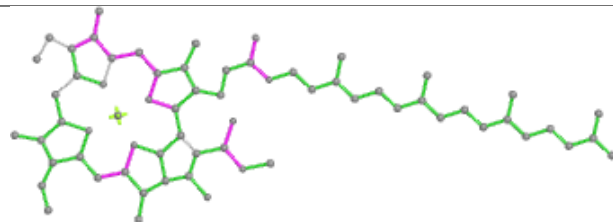


Rings

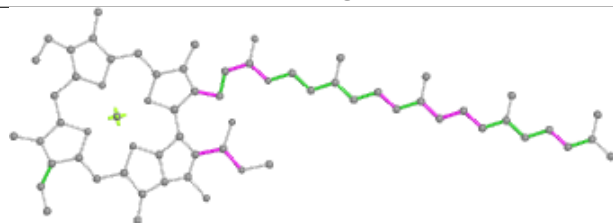
Ligand CLA a 856



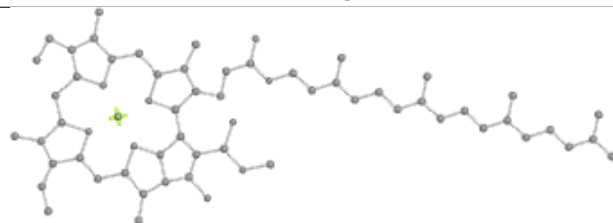
Bond lengths



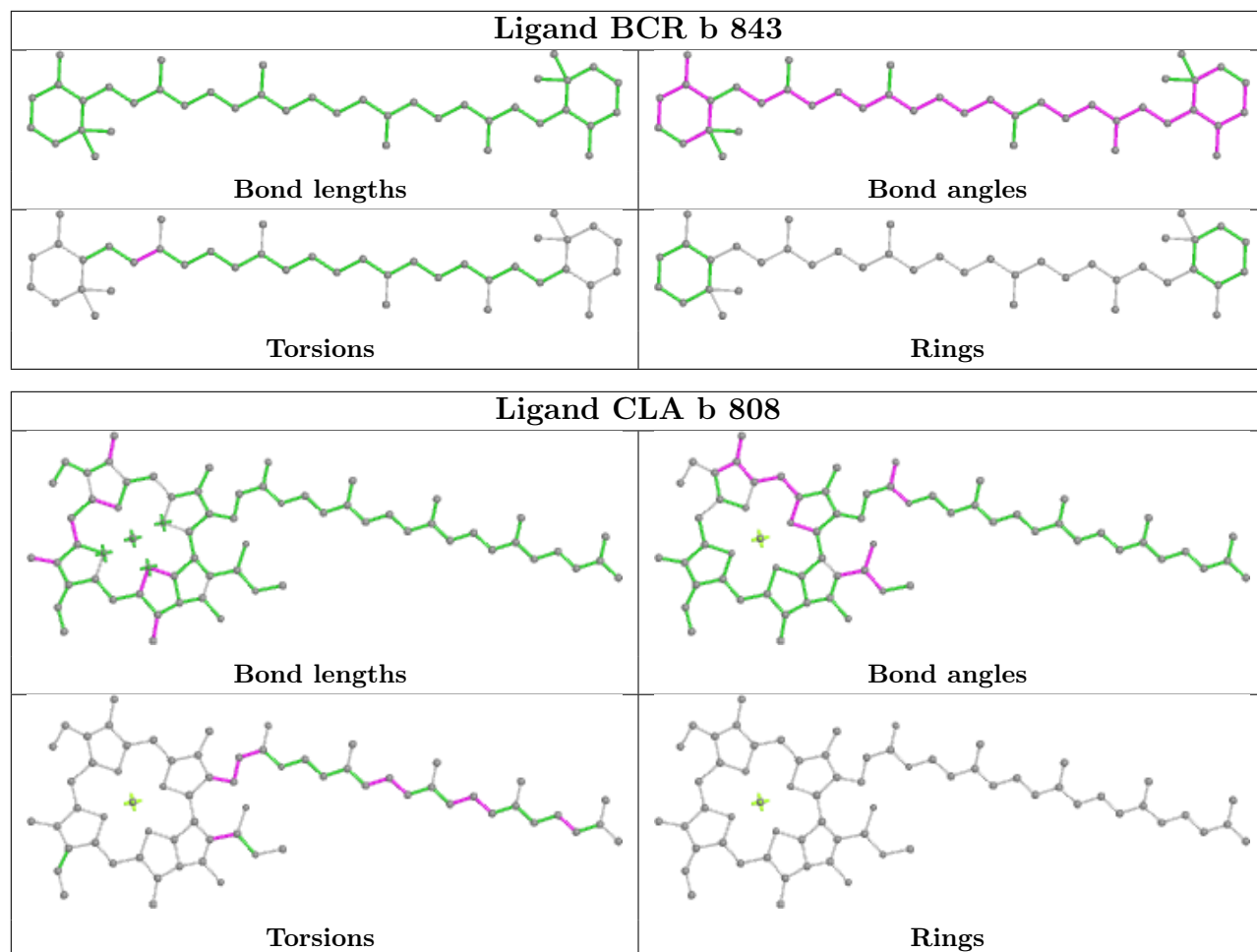
Bond angles



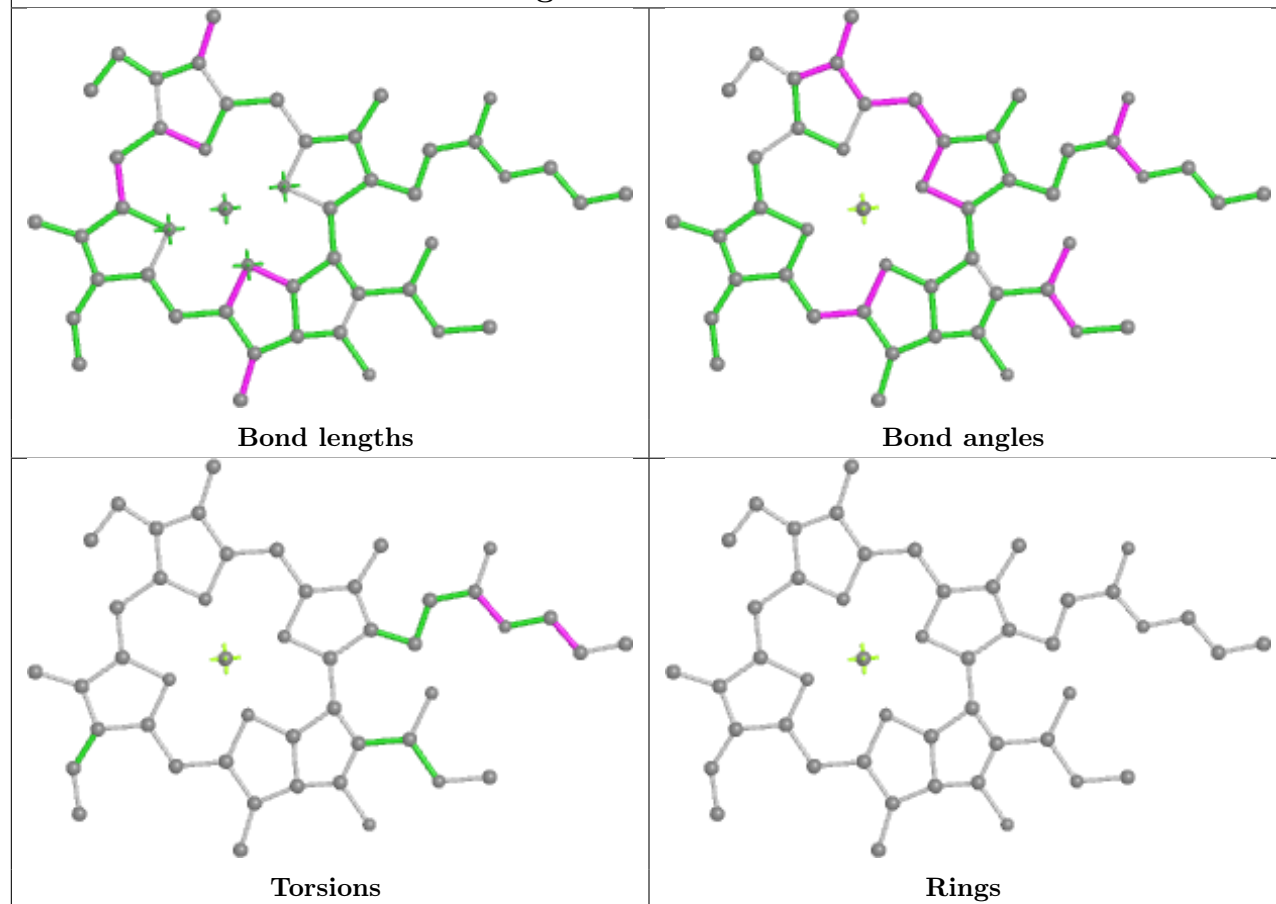
Torsions



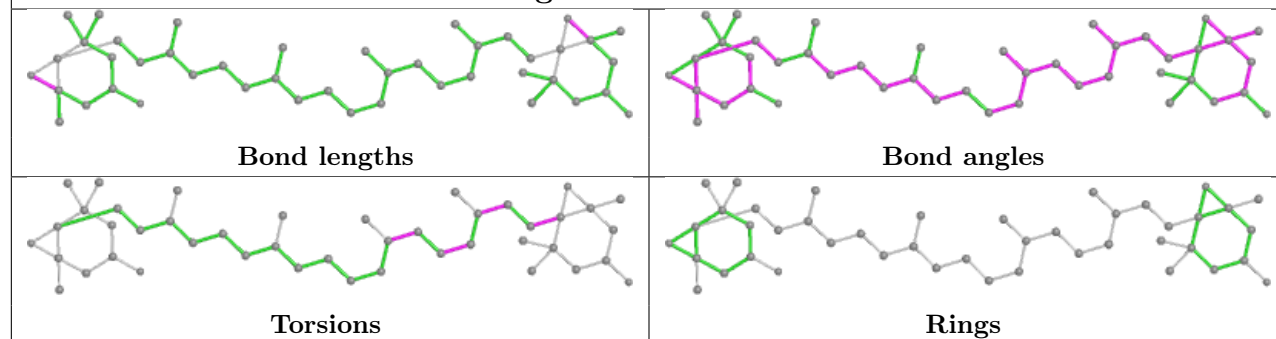
Rings



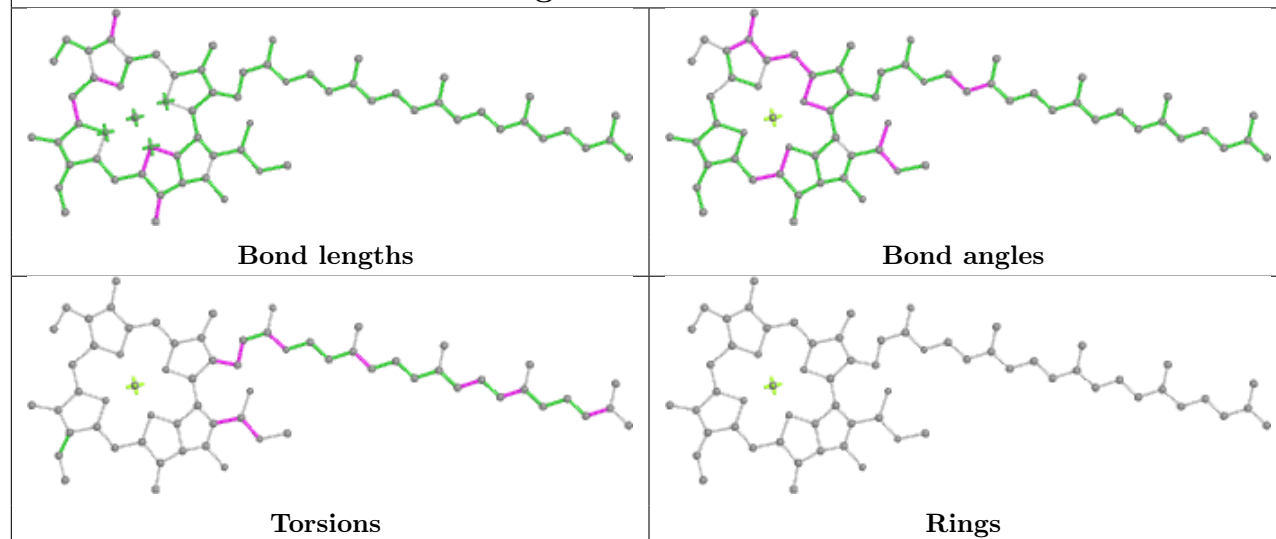
Ligand CLA 7 312



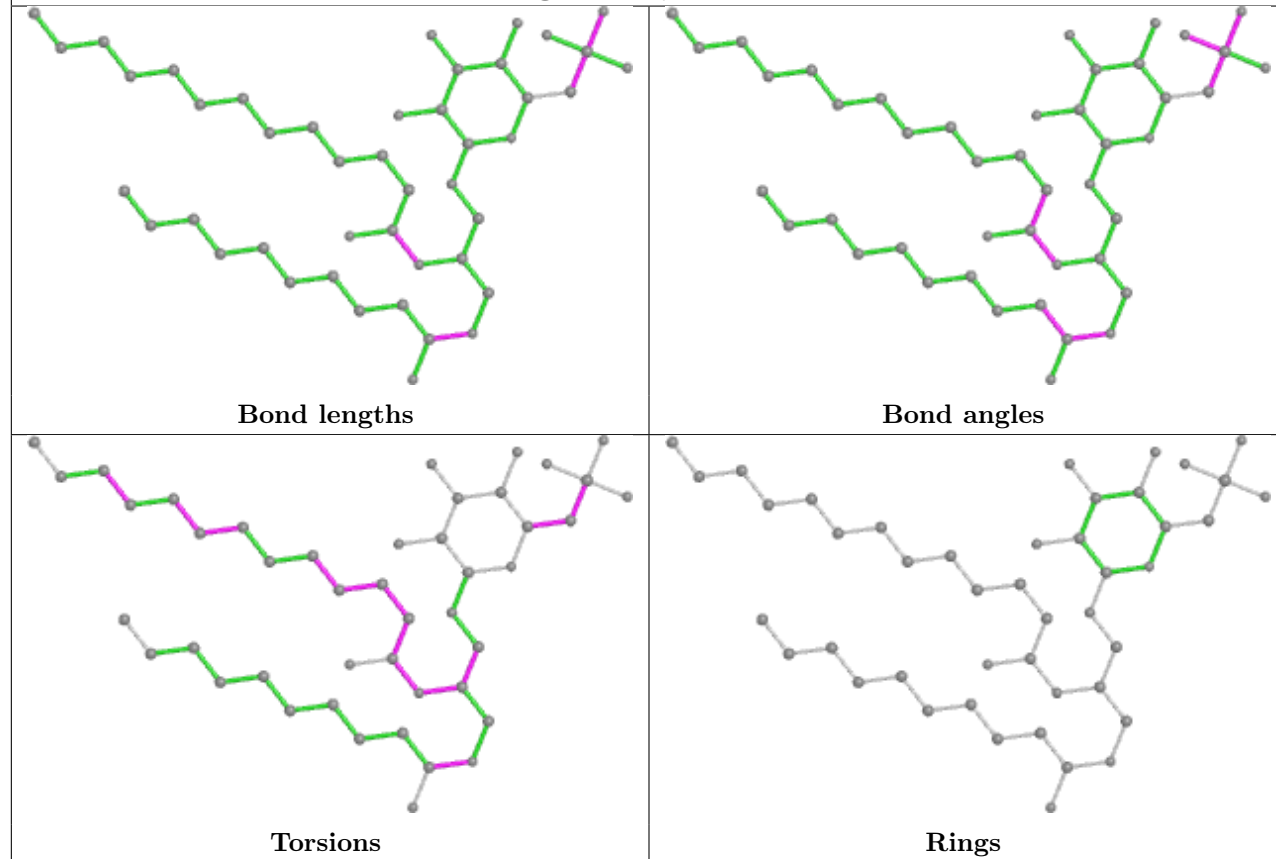
Ligand XAT 7 304

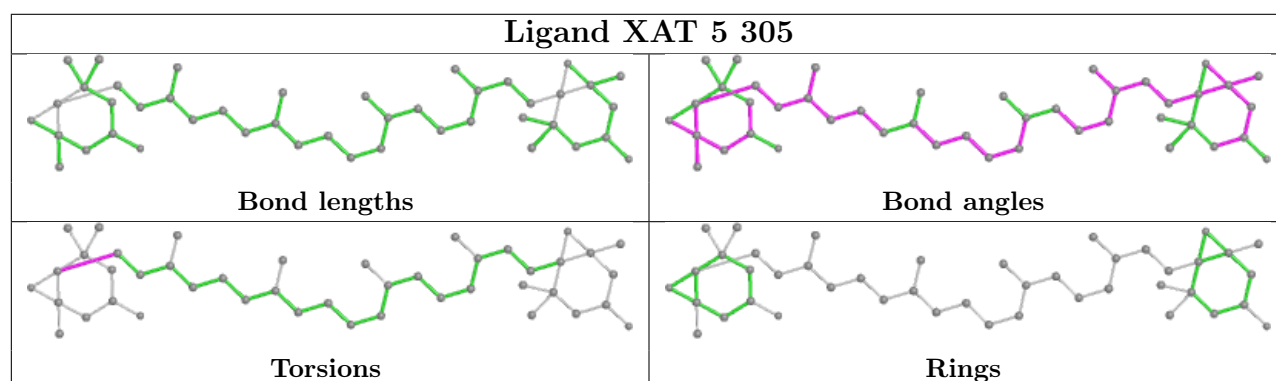
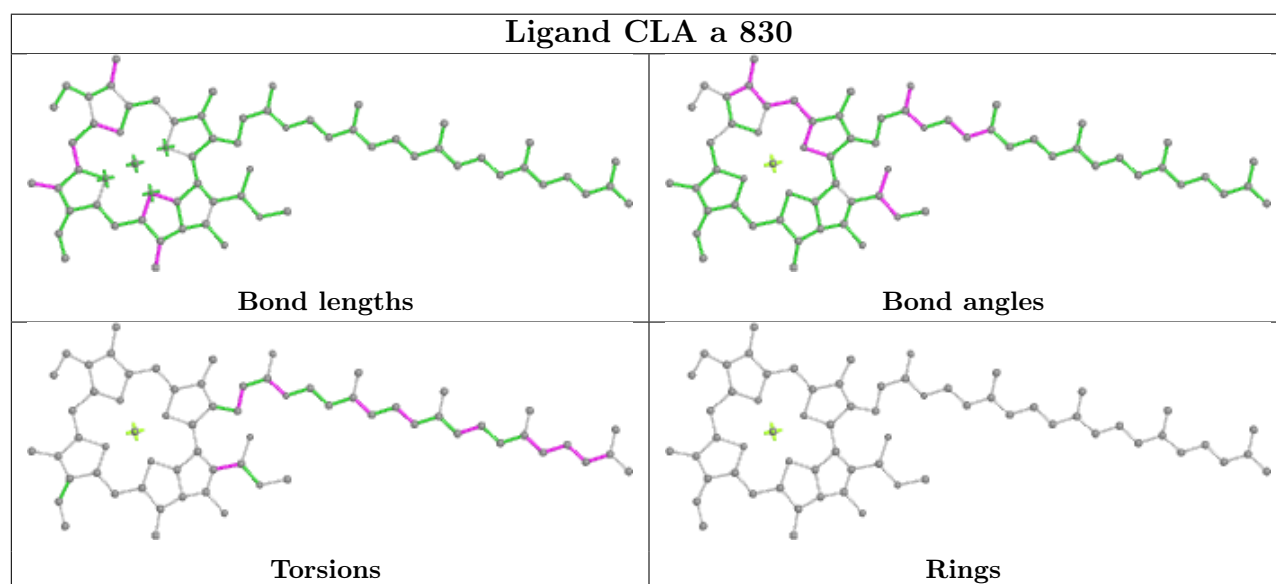
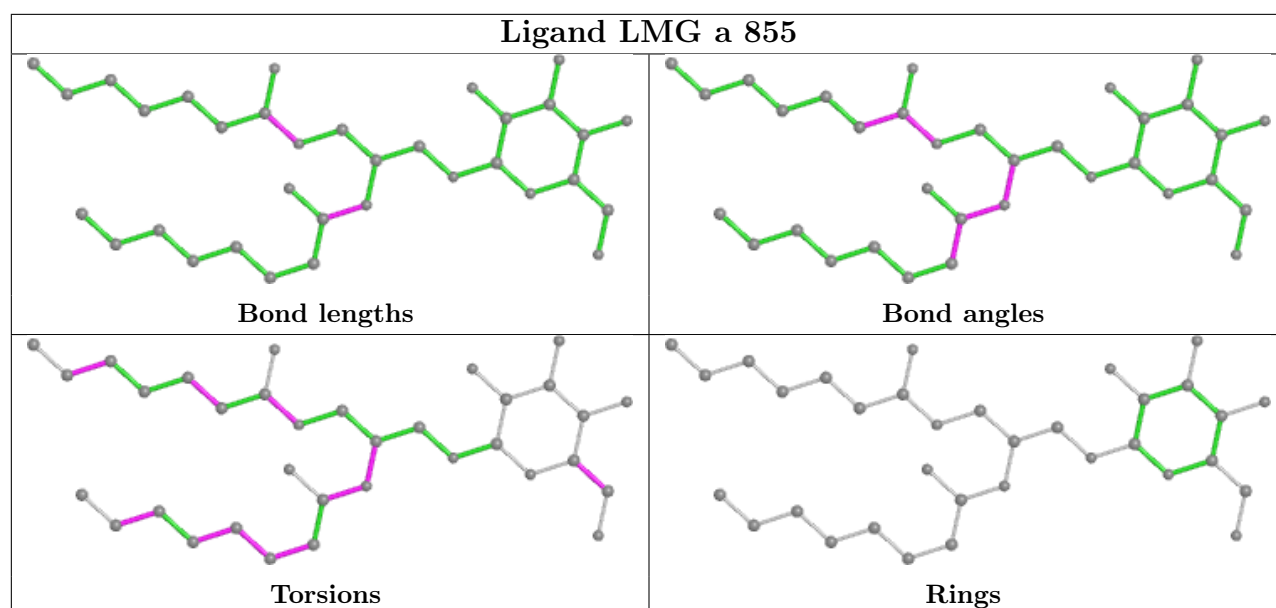


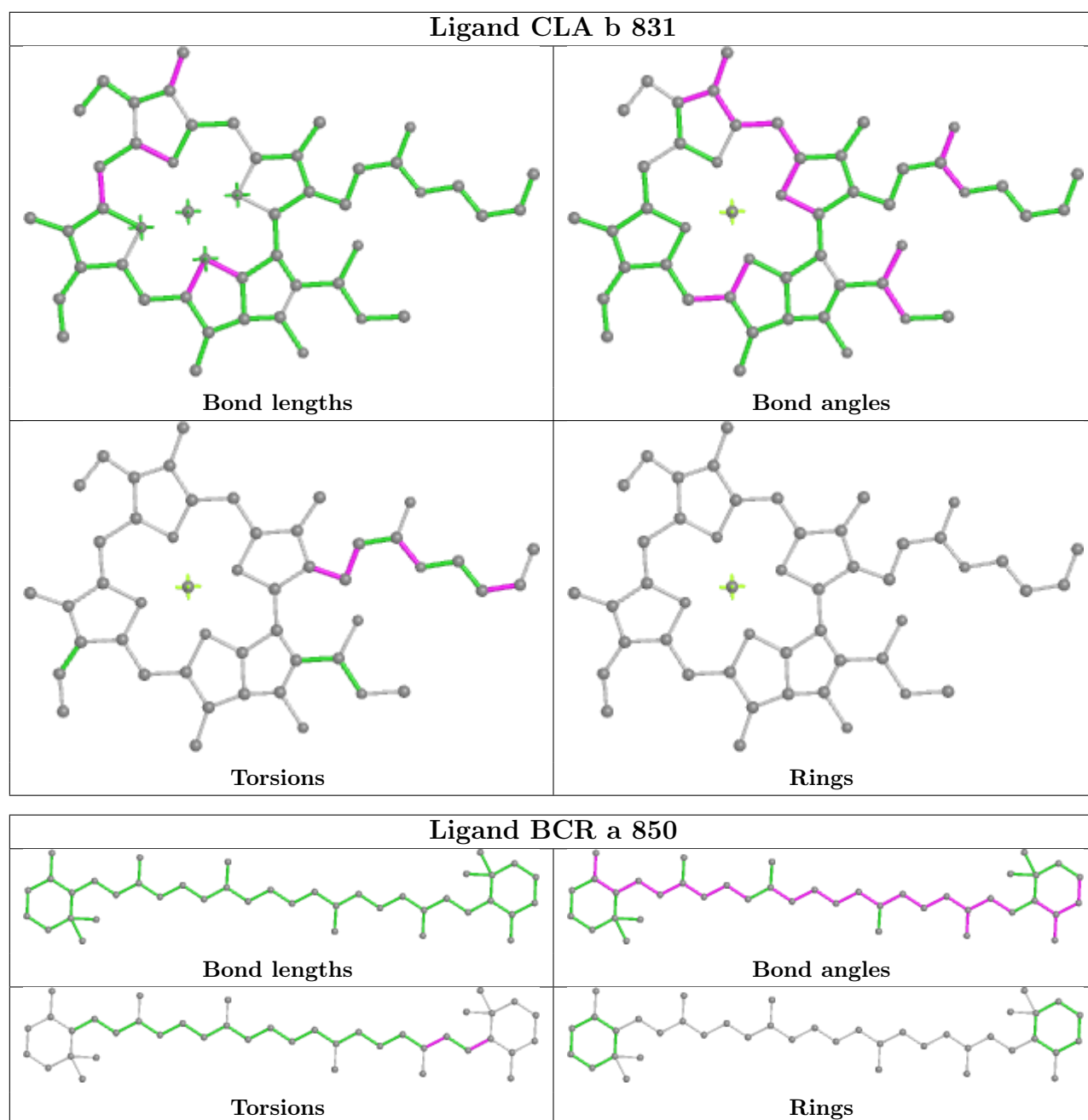
Ligand CLA b 810



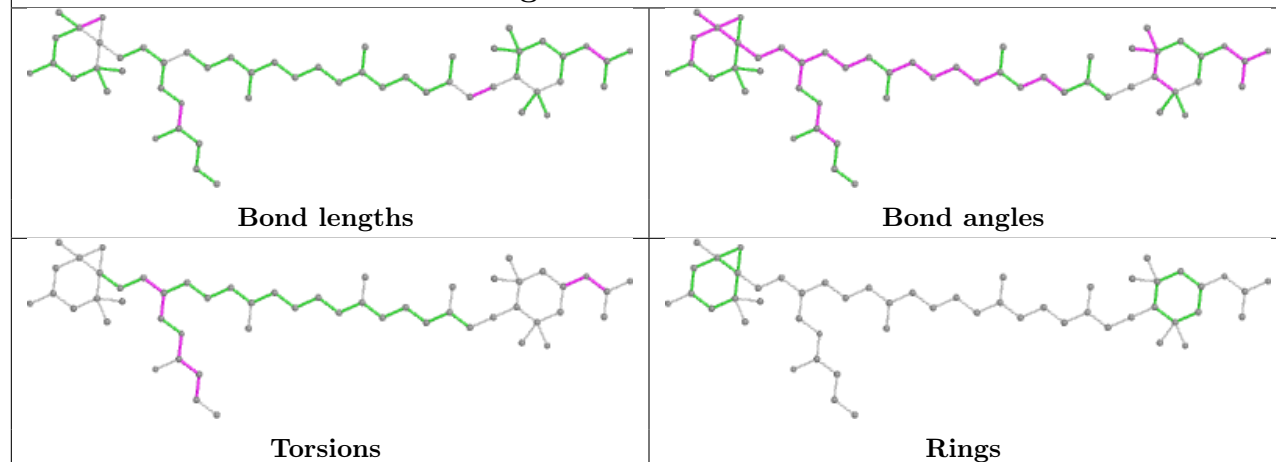
Ligand SQD 1 315



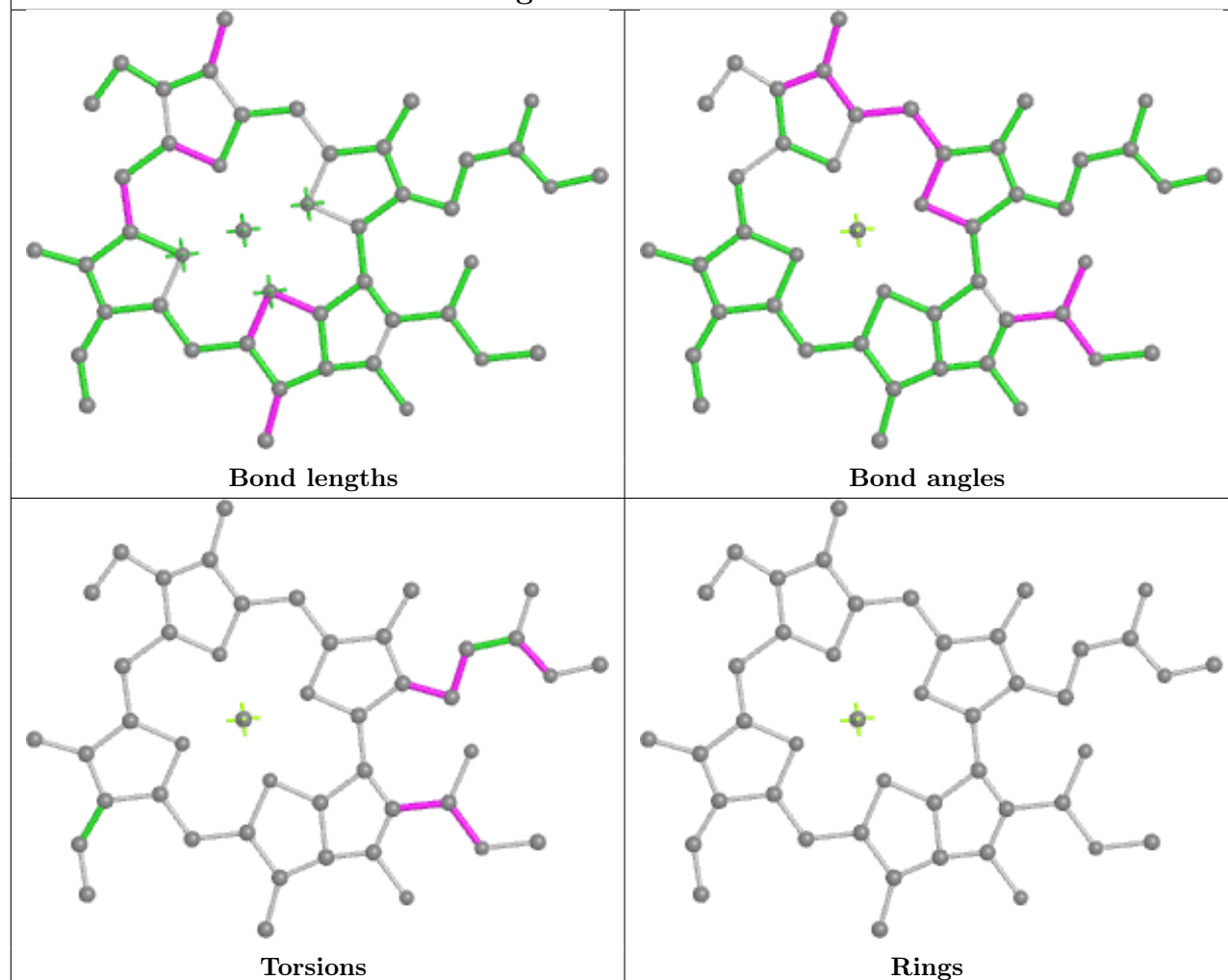




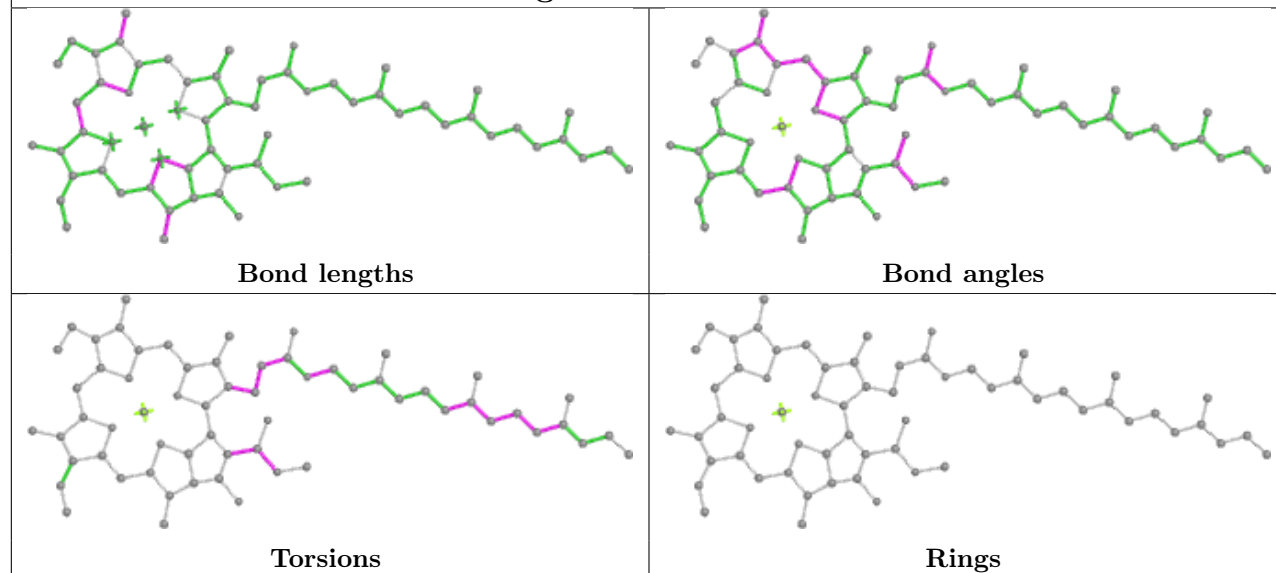
Ligand A1L1F 6 304



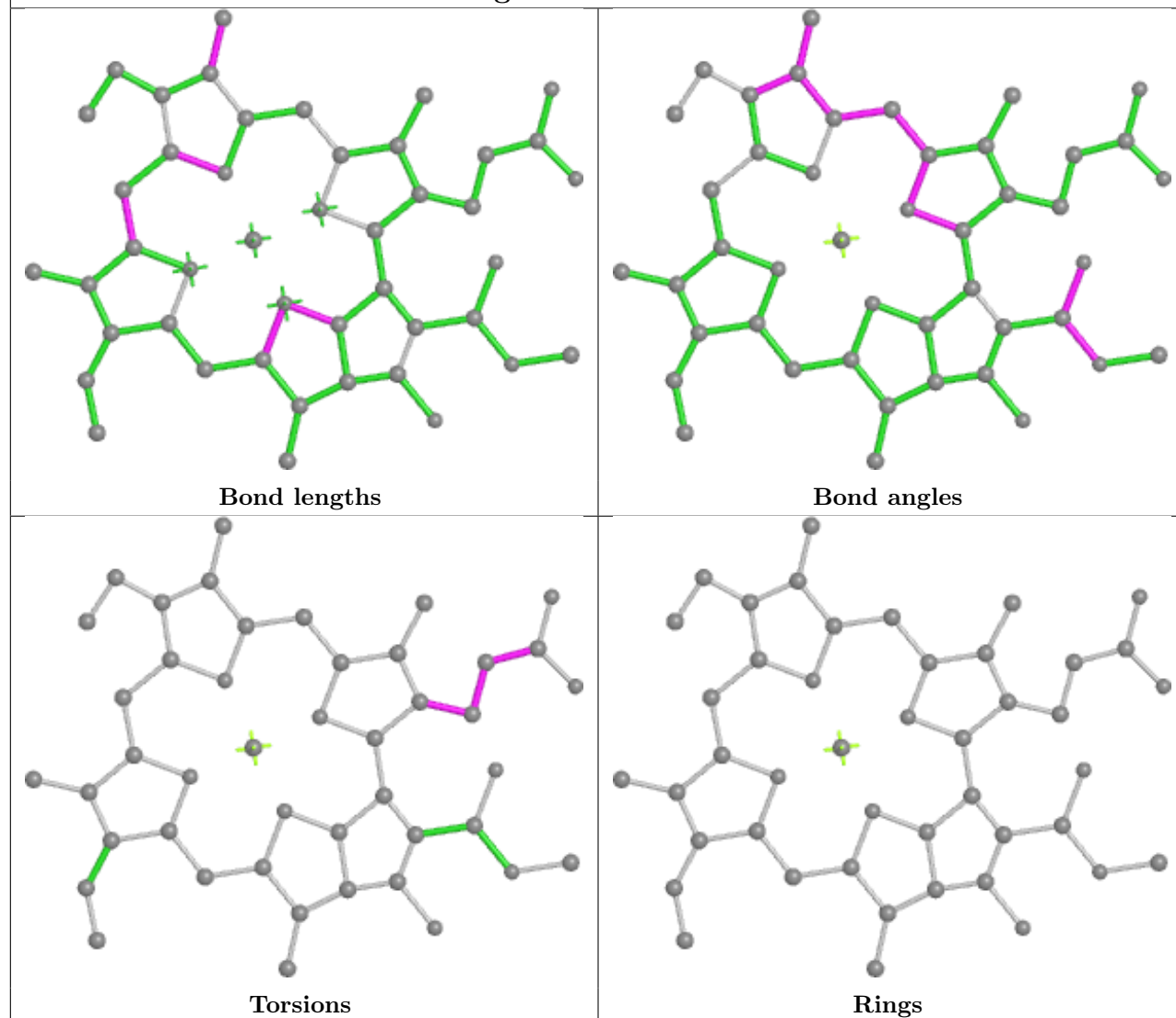
Ligand CLA 4 311



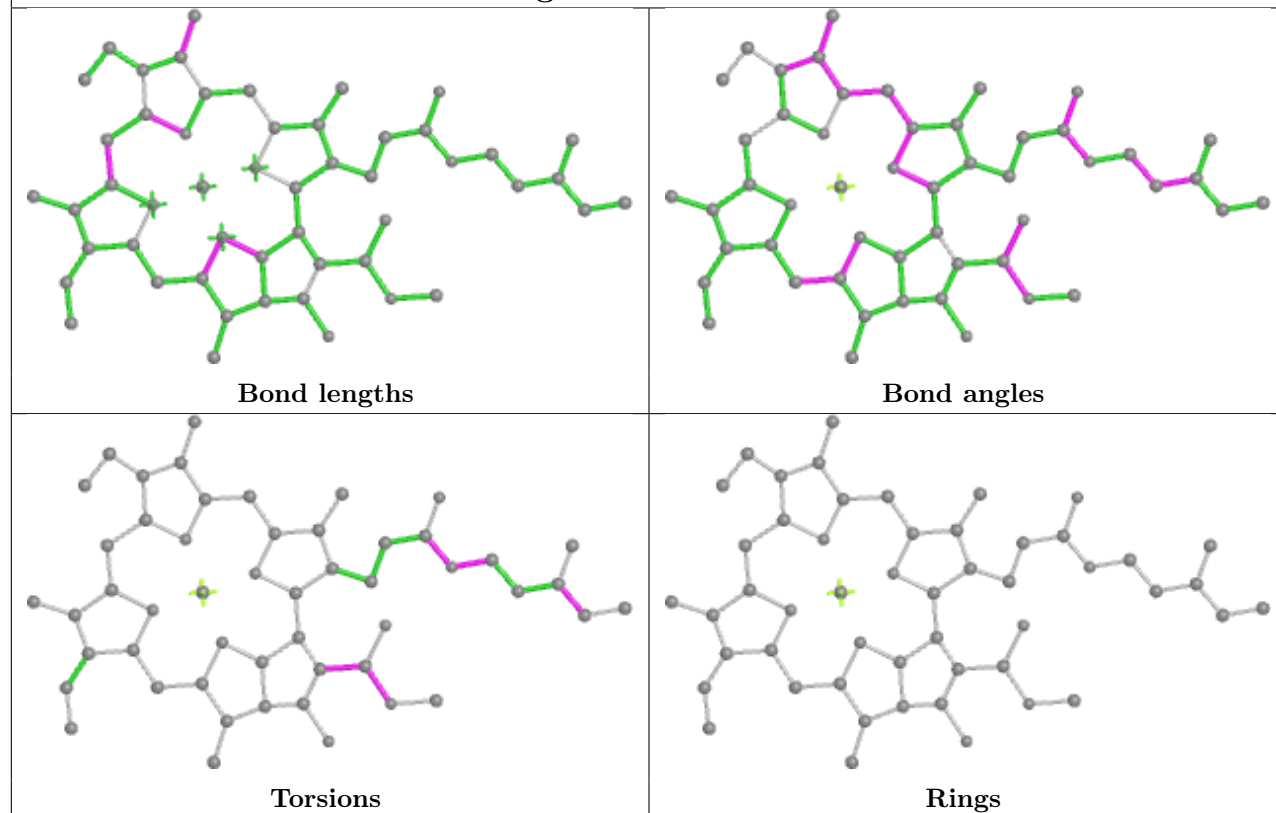
Ligand CLA a 829



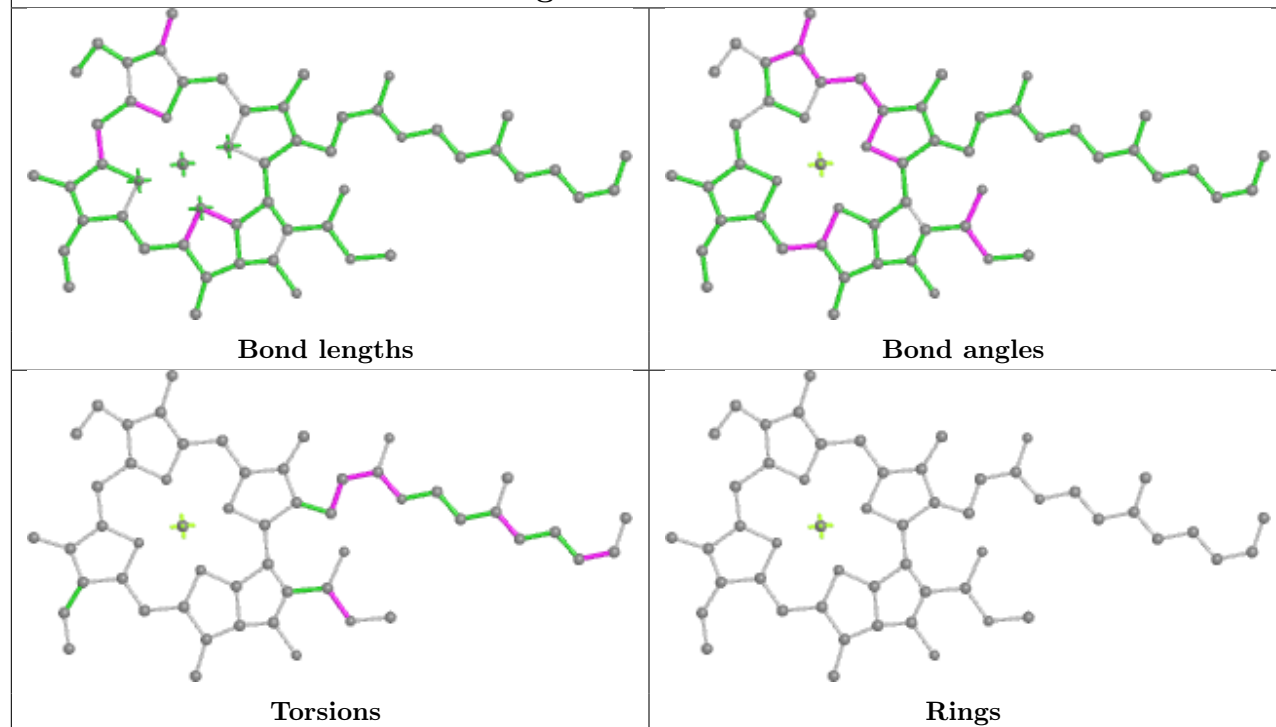
Ligand CLA 1 314

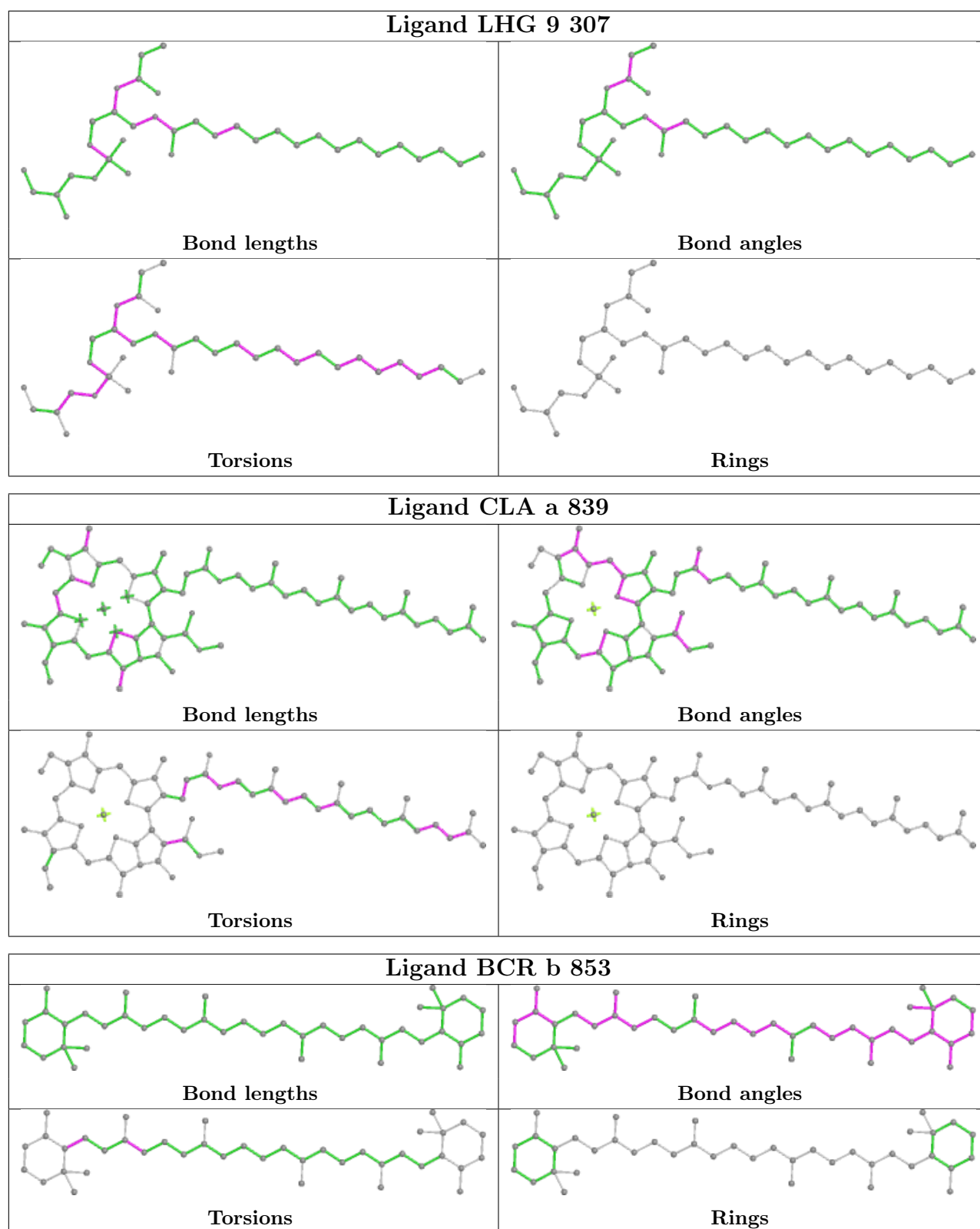


Ligand CLA 5 312

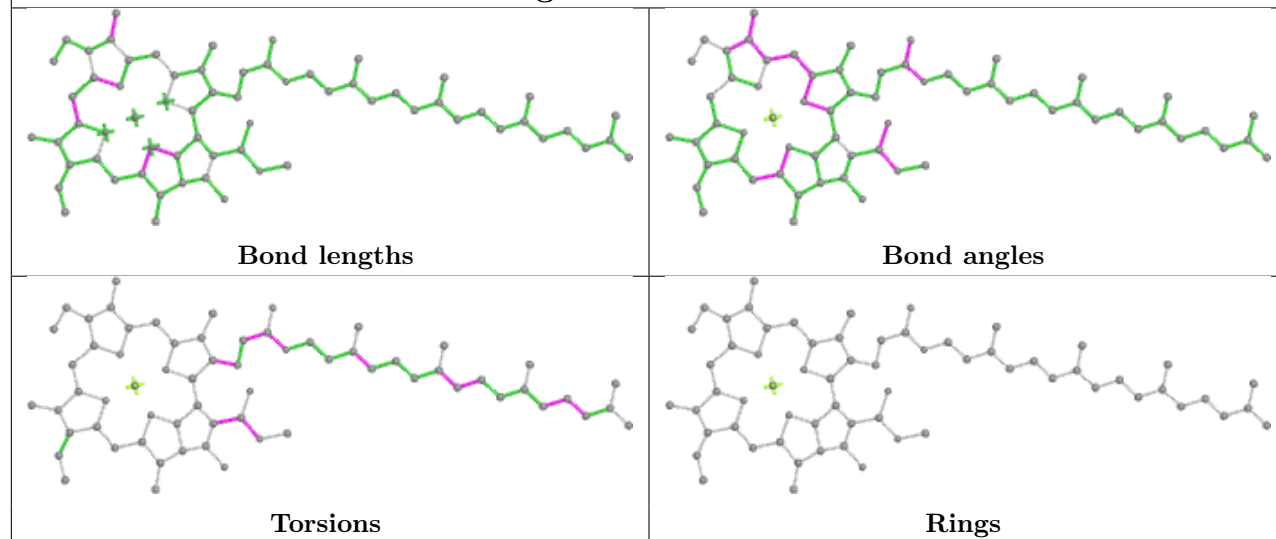


Ligand CLA a 813

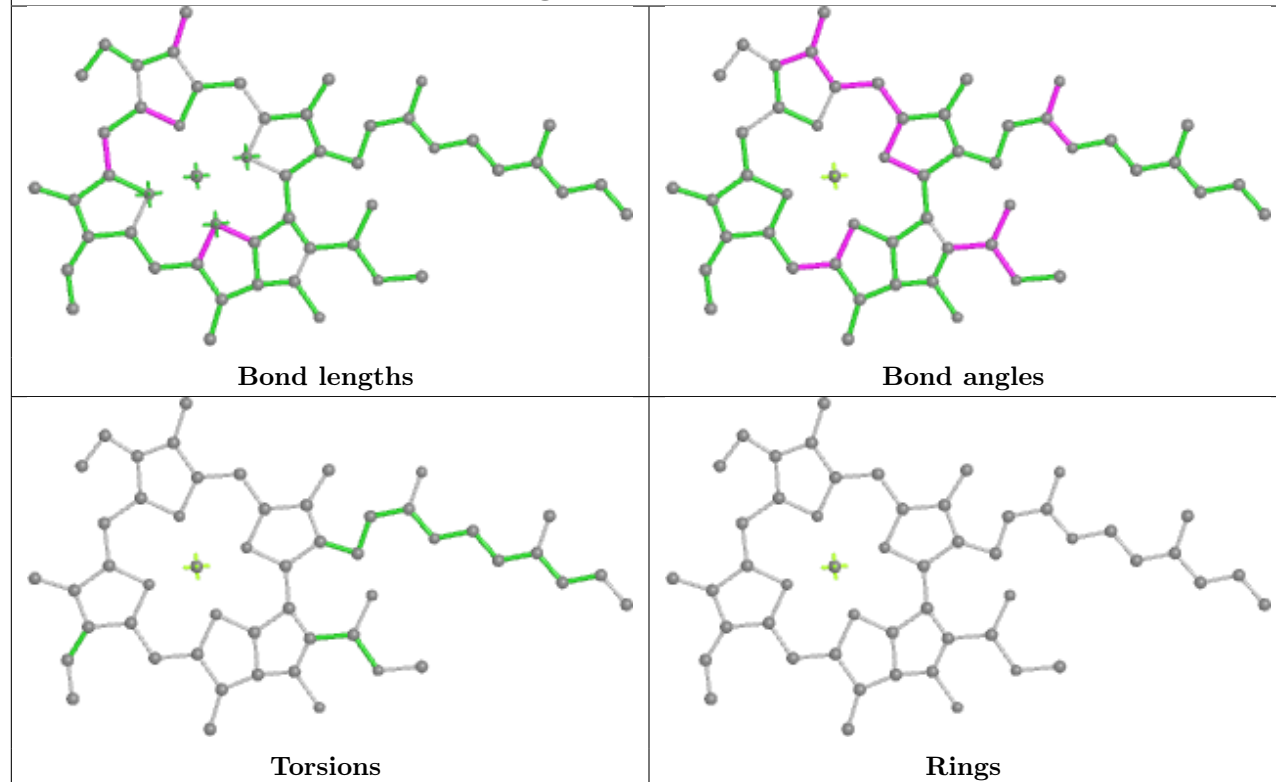




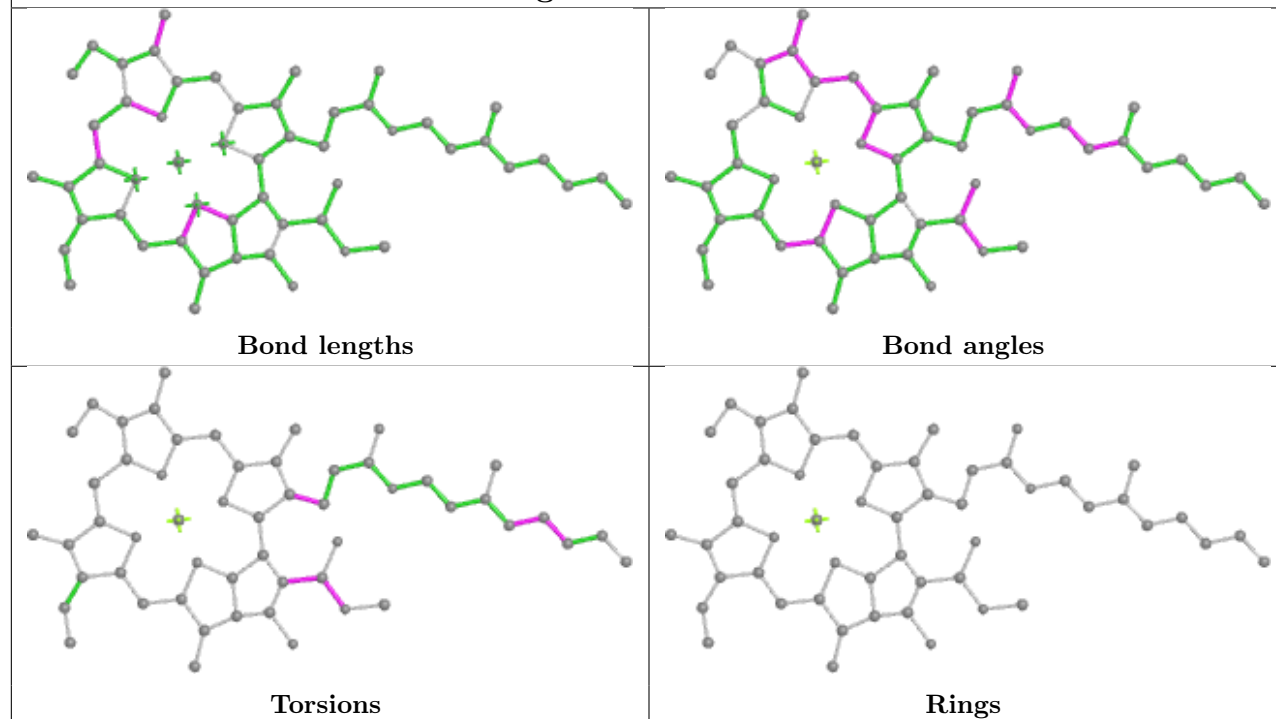
Ligand CLA 4 310



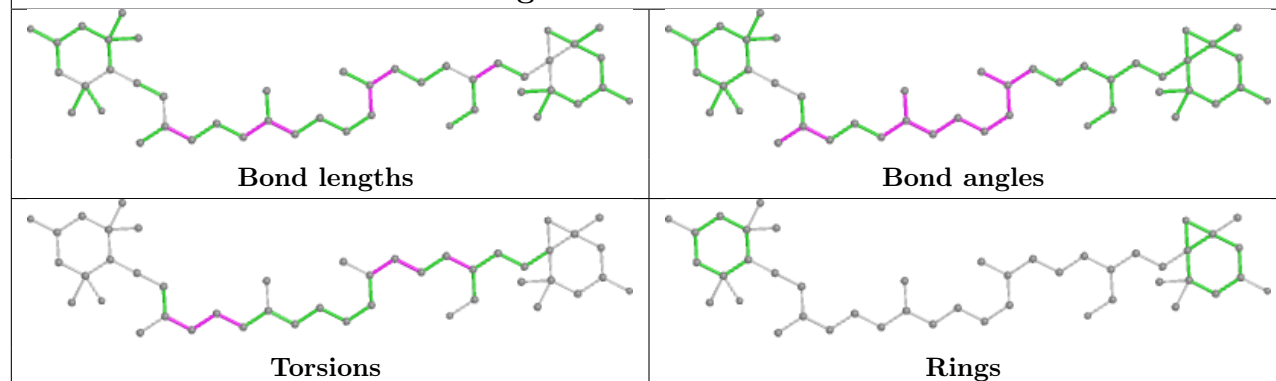
Ligand CLA 5 313



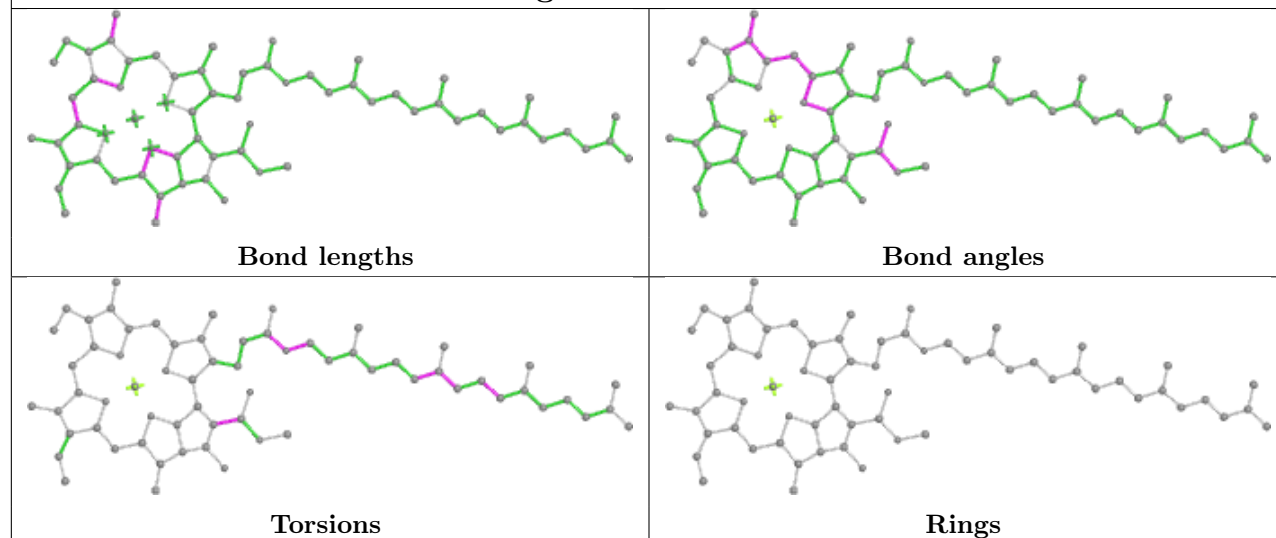
Ligand CLA 7 313



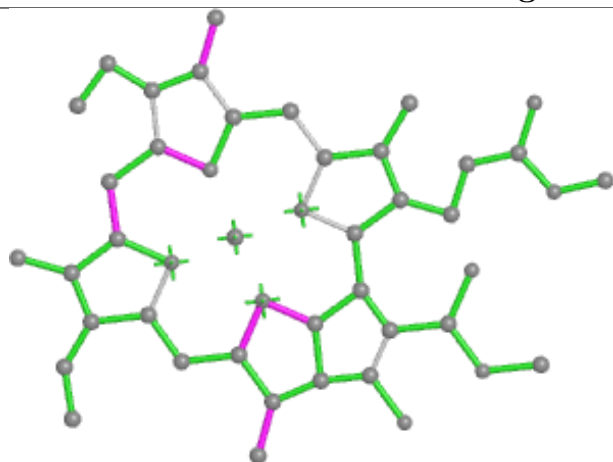
Ligand A1L1G 5 304



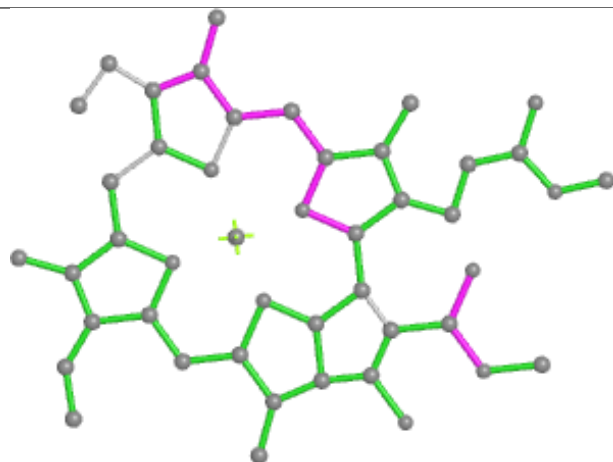
Ligand CLA 6 309



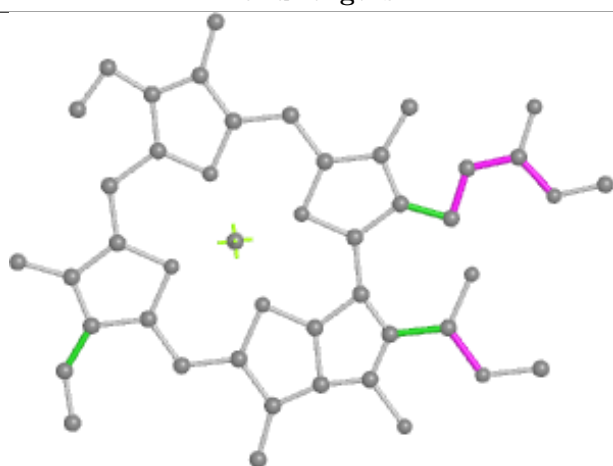
Ligand CLA 7 310



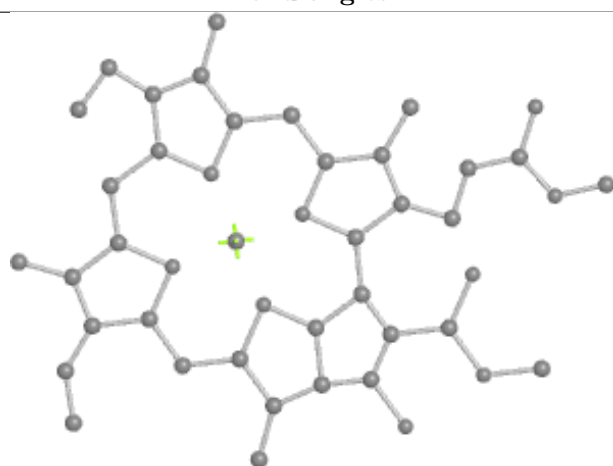
Bond lengths



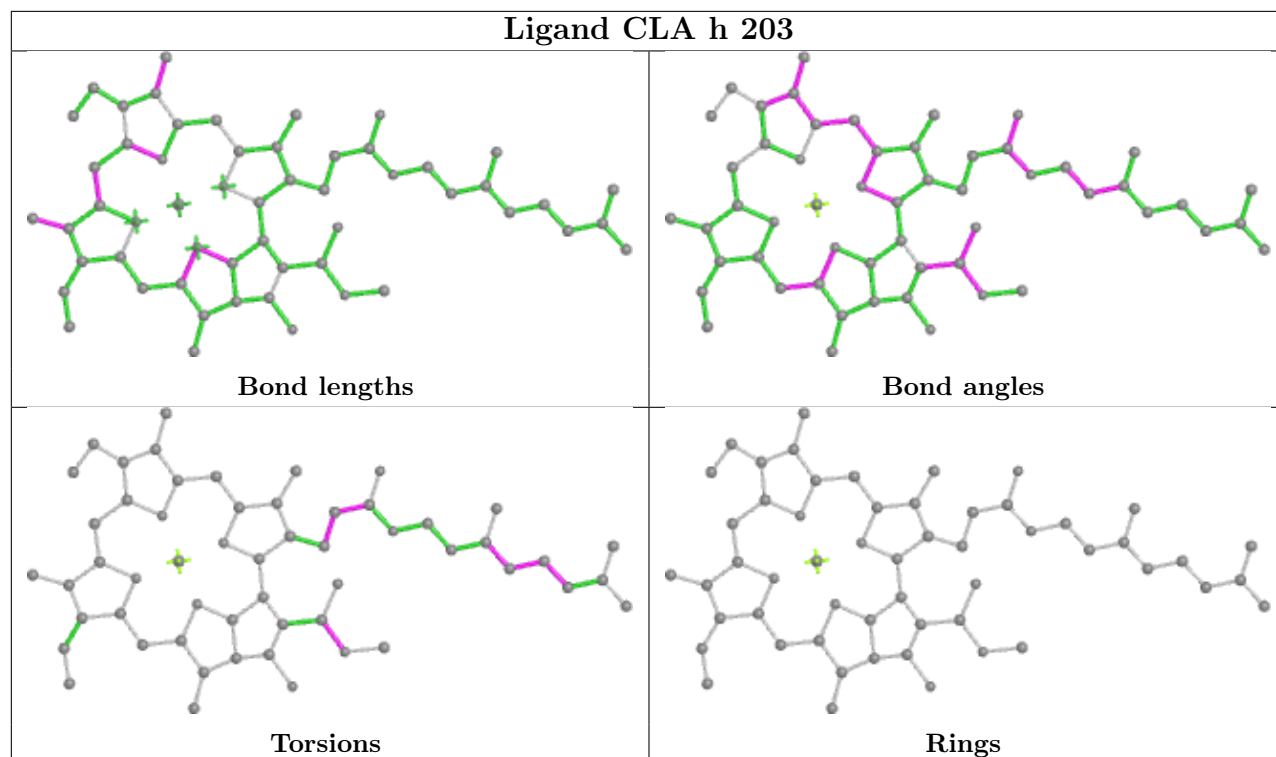
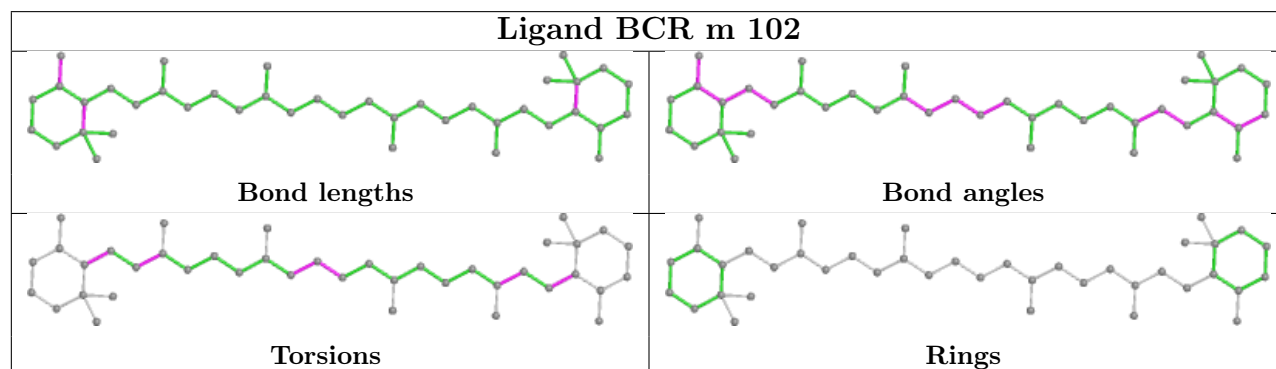
Bond angles

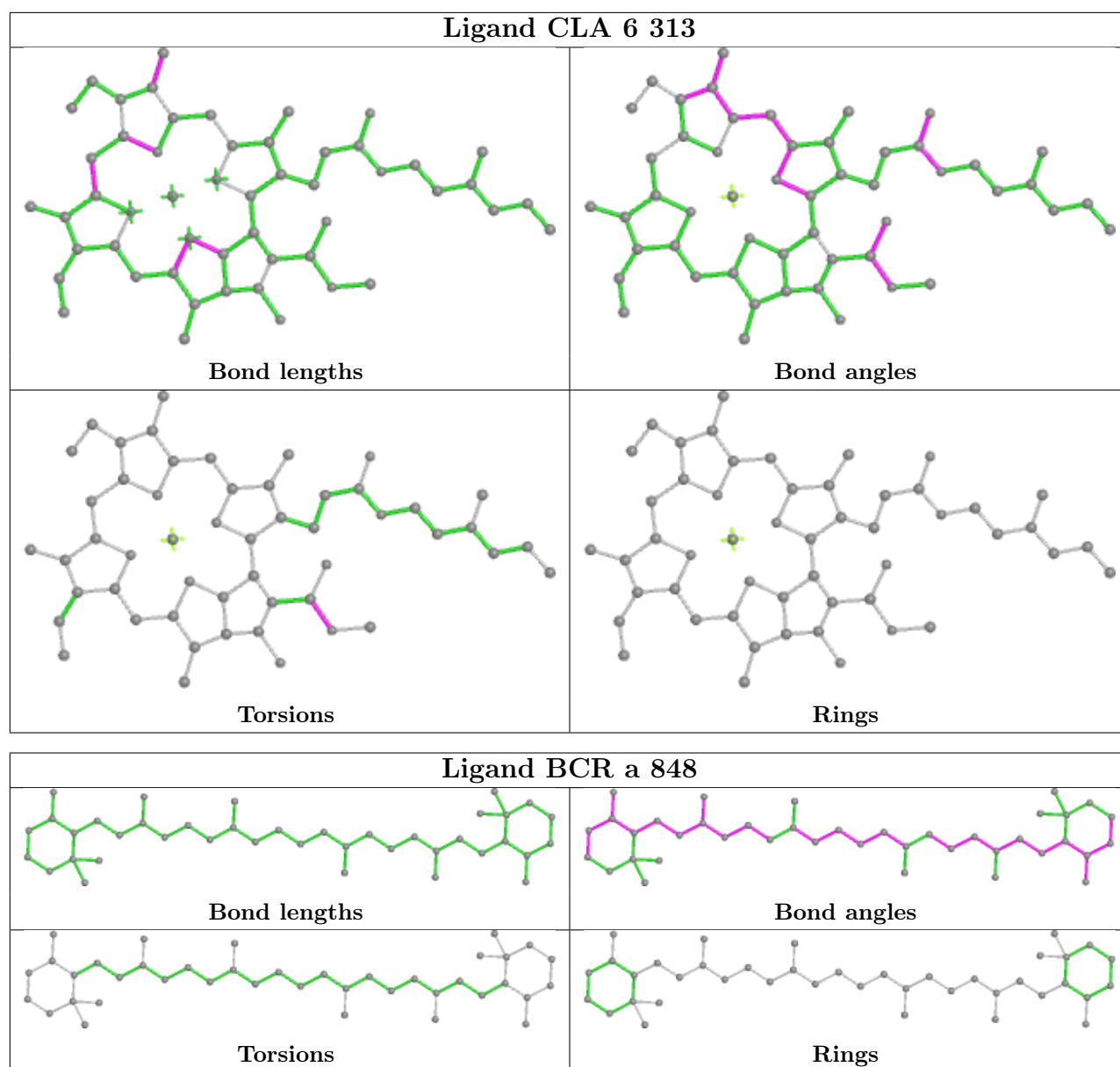


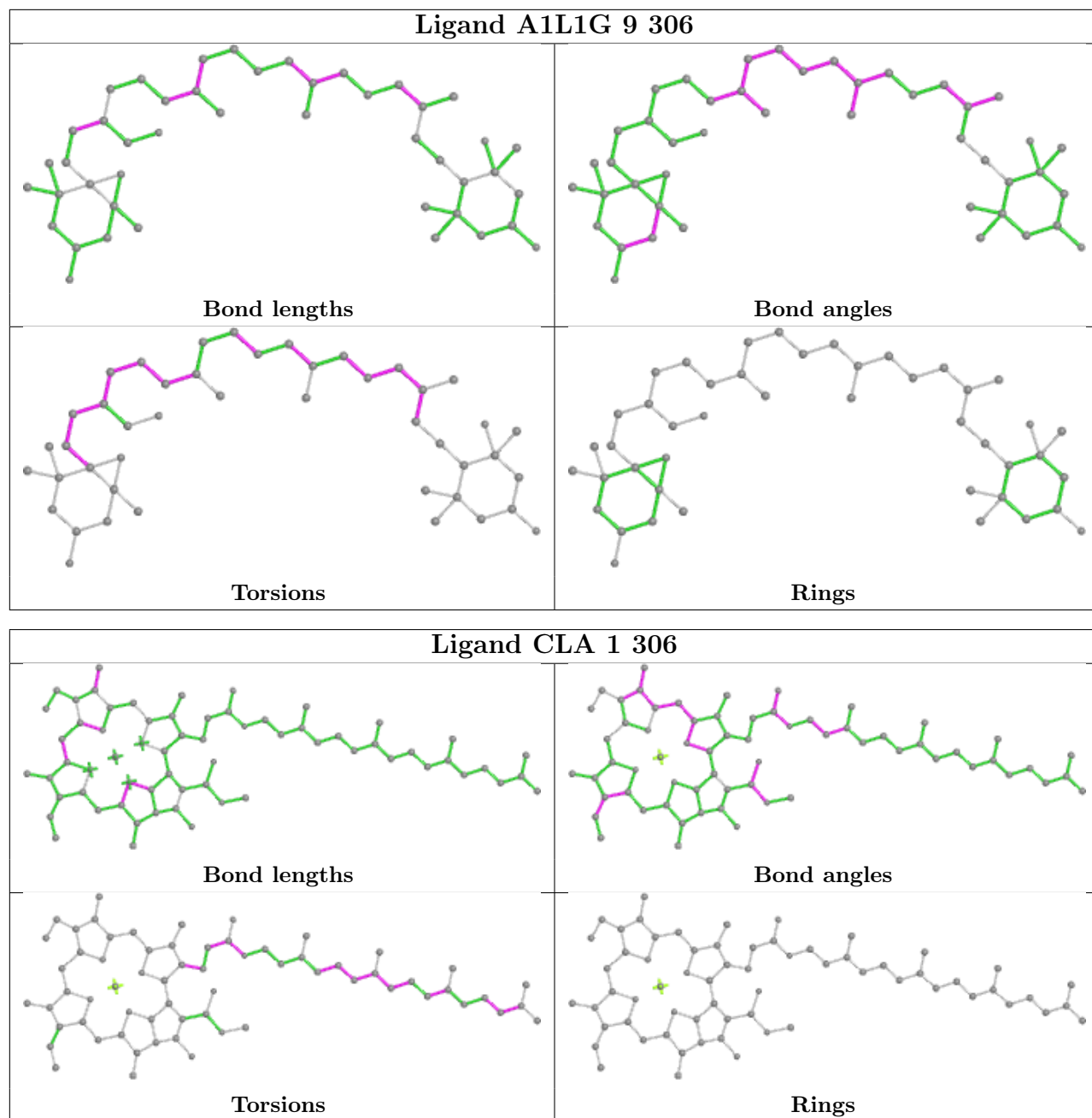
Torsions

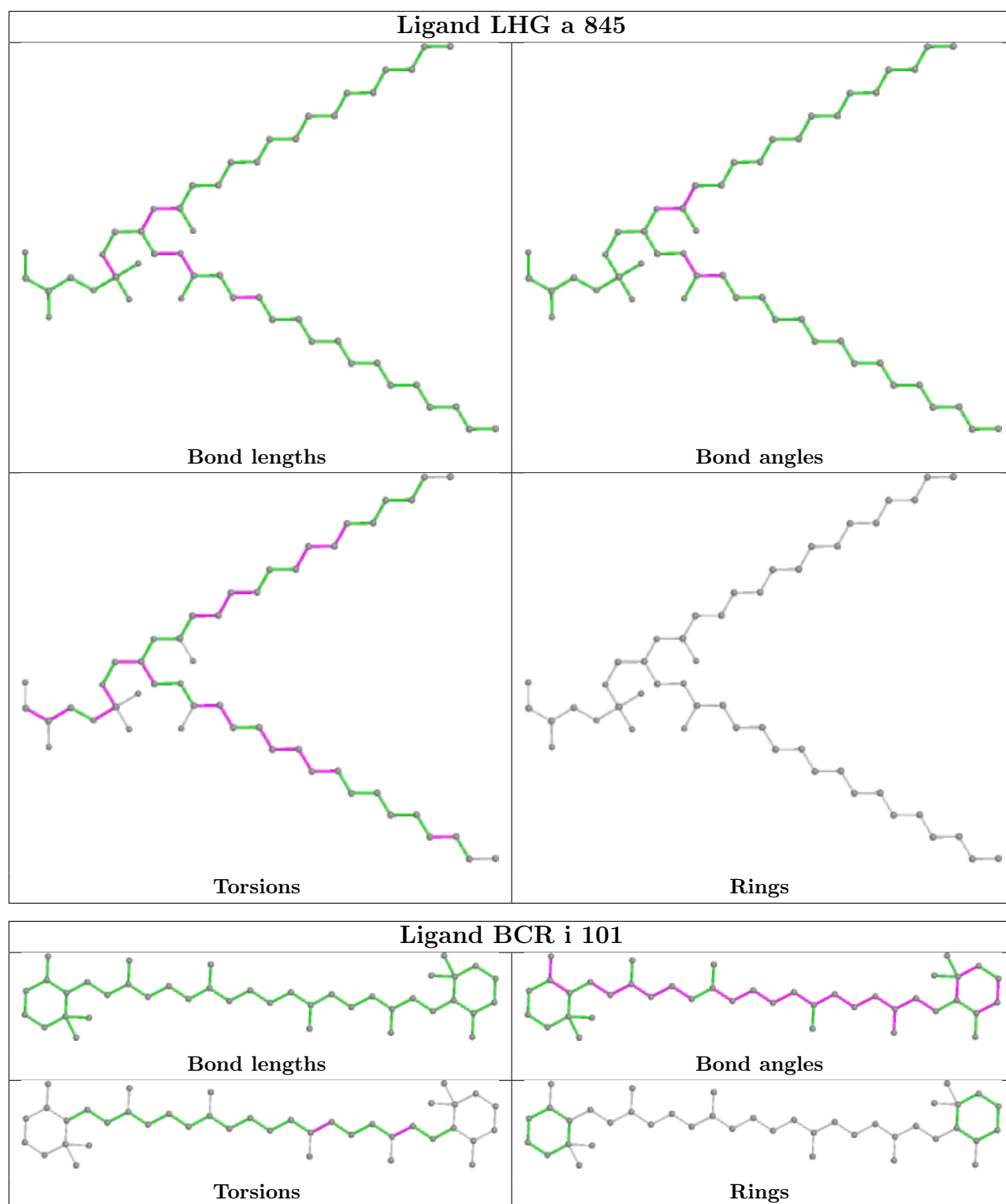


Rings

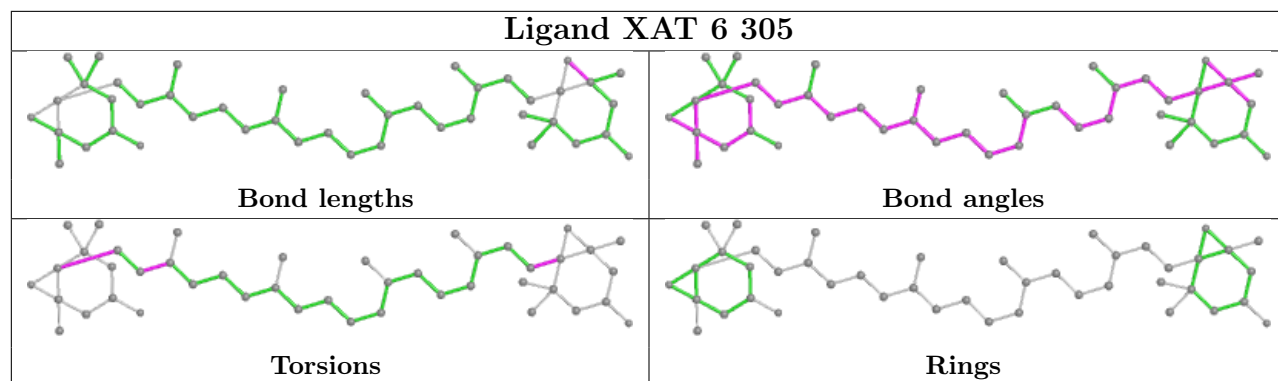
Ligand CLA h 203**Ligand BCR m 102**



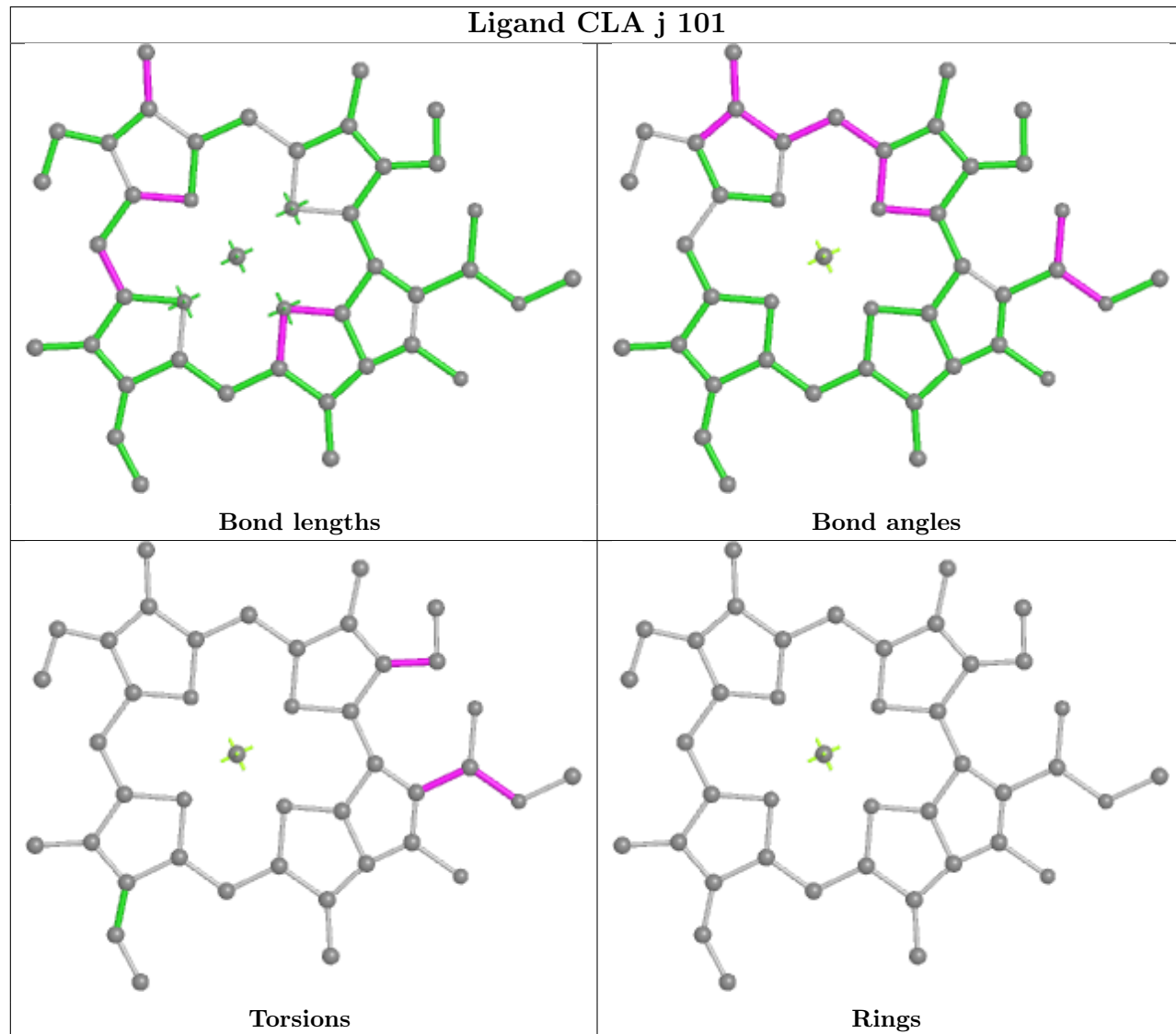




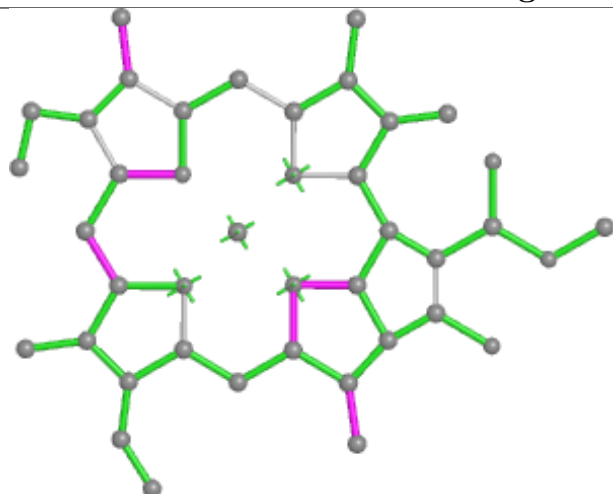
Ligand XAT 6 305



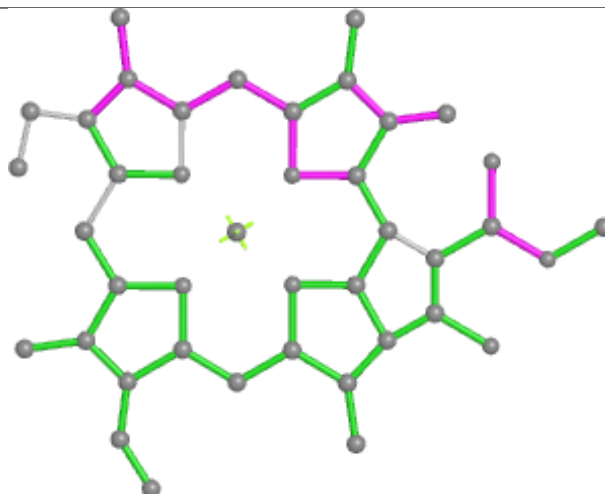
Ligand CLA j 101



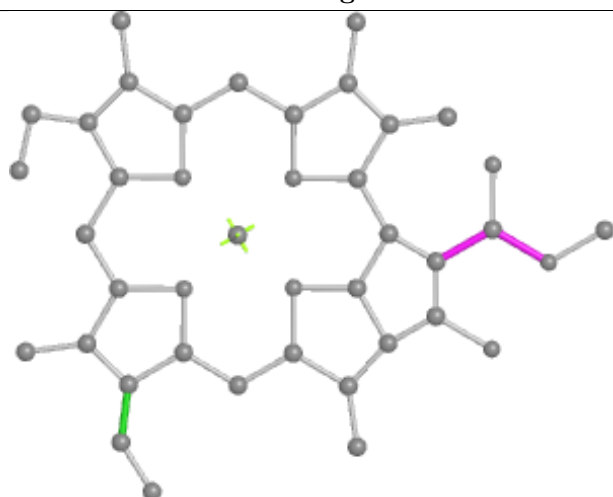
Ligand CLA 4 315



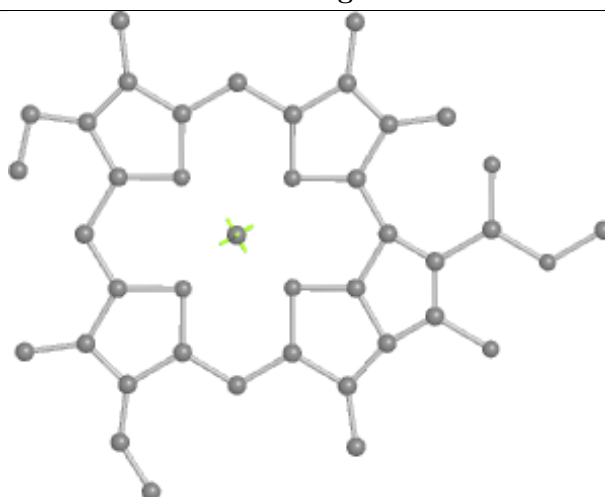
Bond lengths



Bond angles

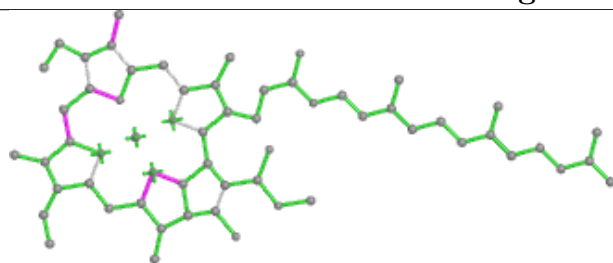


Torsions

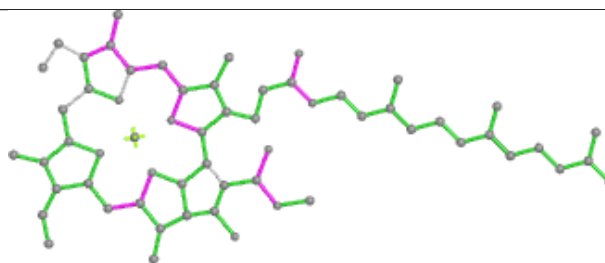


Rings

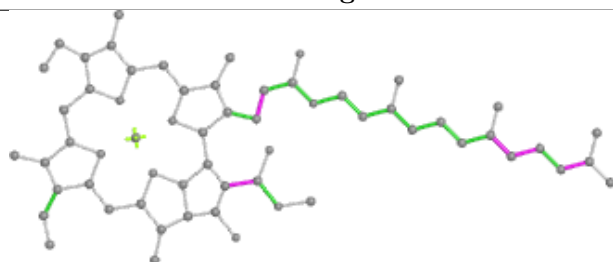
Ligand CLA 5 308



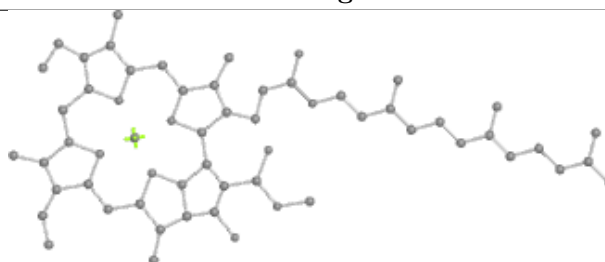
Bond lengths



Bond angles

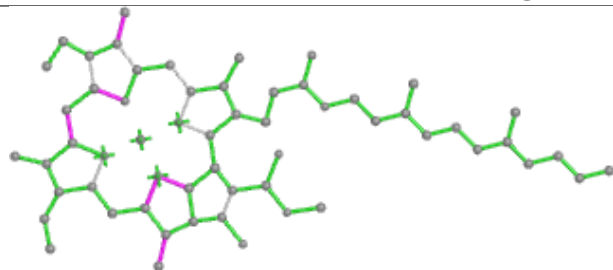


Torsions

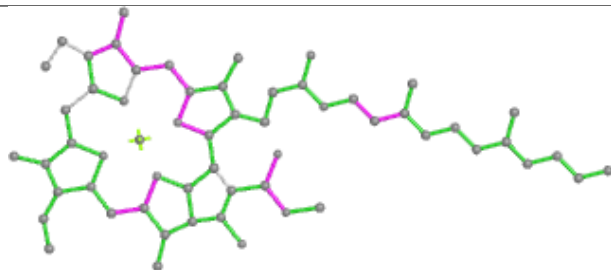


Rings

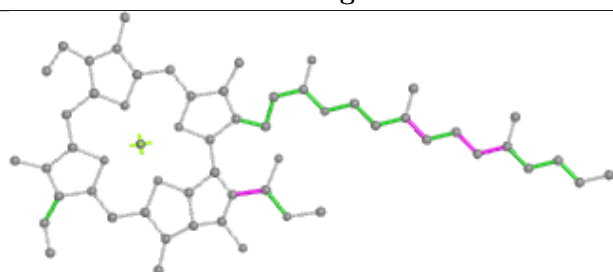
Ligand CLA a 802



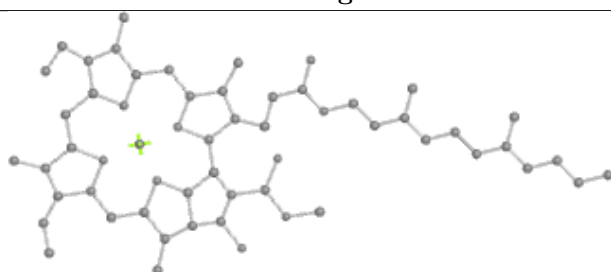
Bond lengths



Bond angles

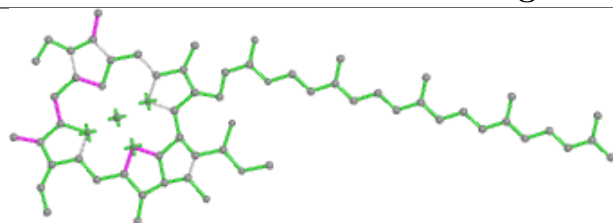


Torsions

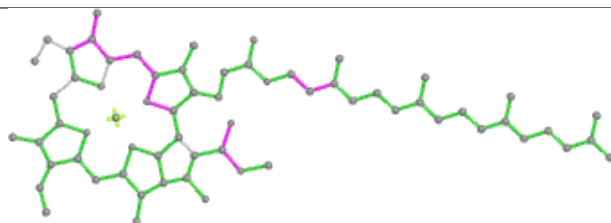


Rings

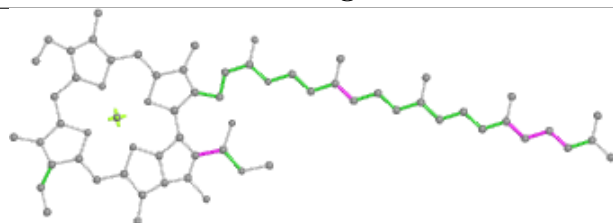
Ligand CLA a 828



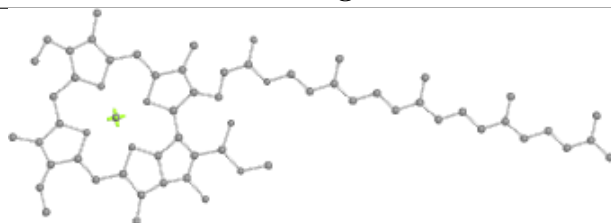
Bond lengths



Bond angles

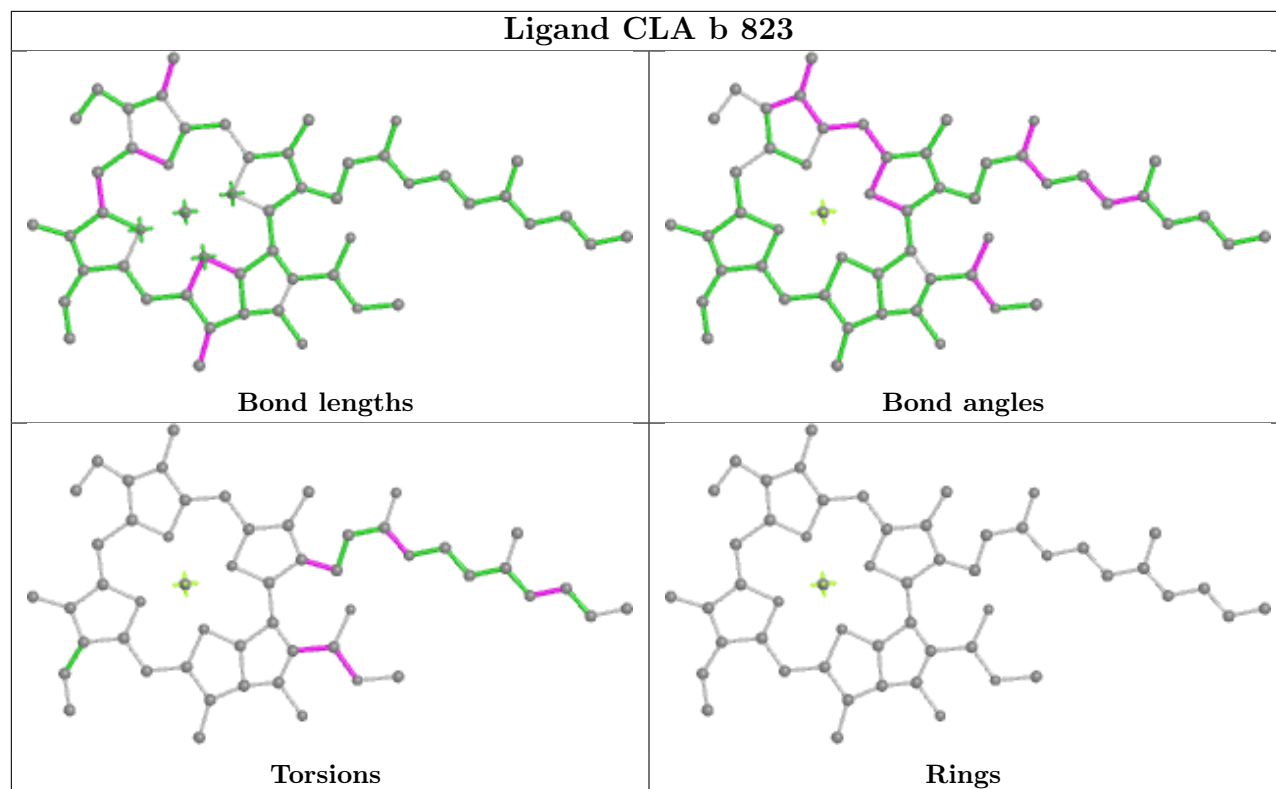


Torsions

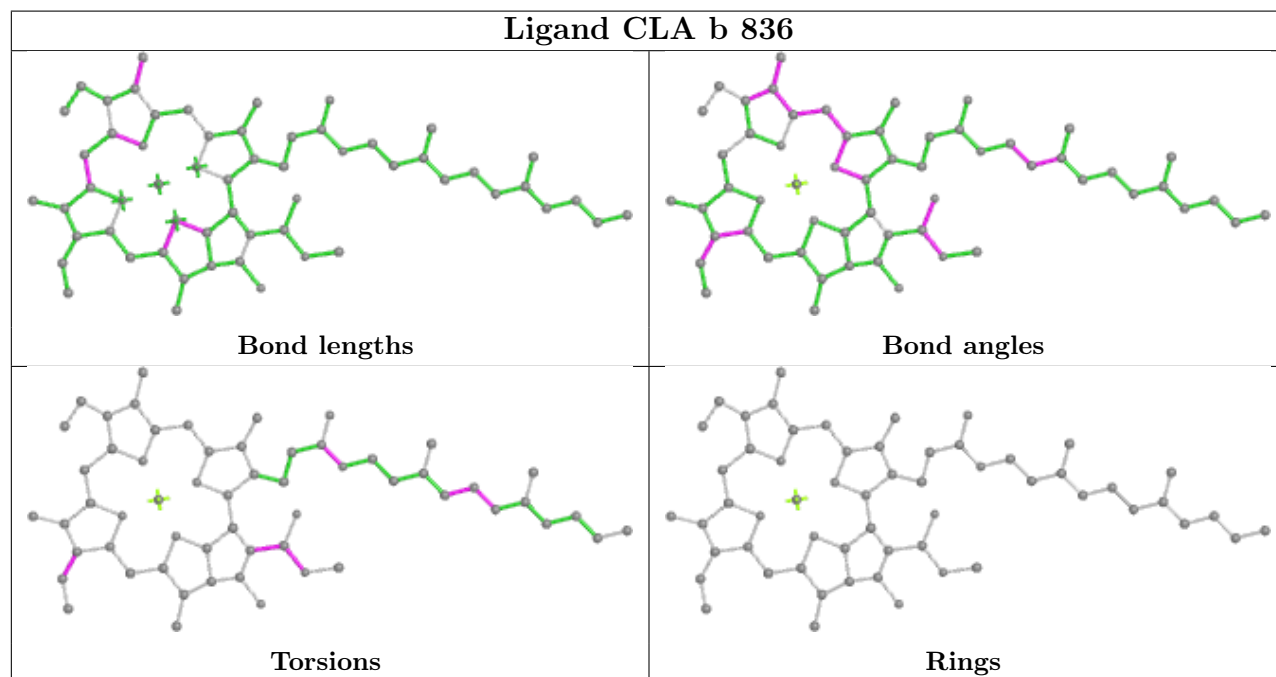


Rings

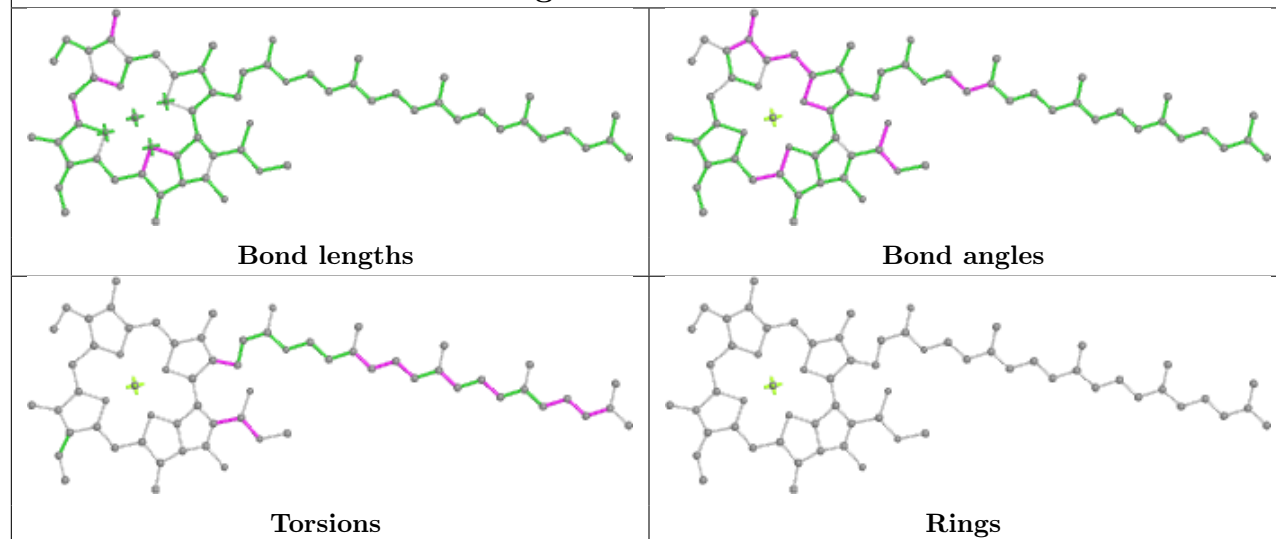
Ligand CLA b 823



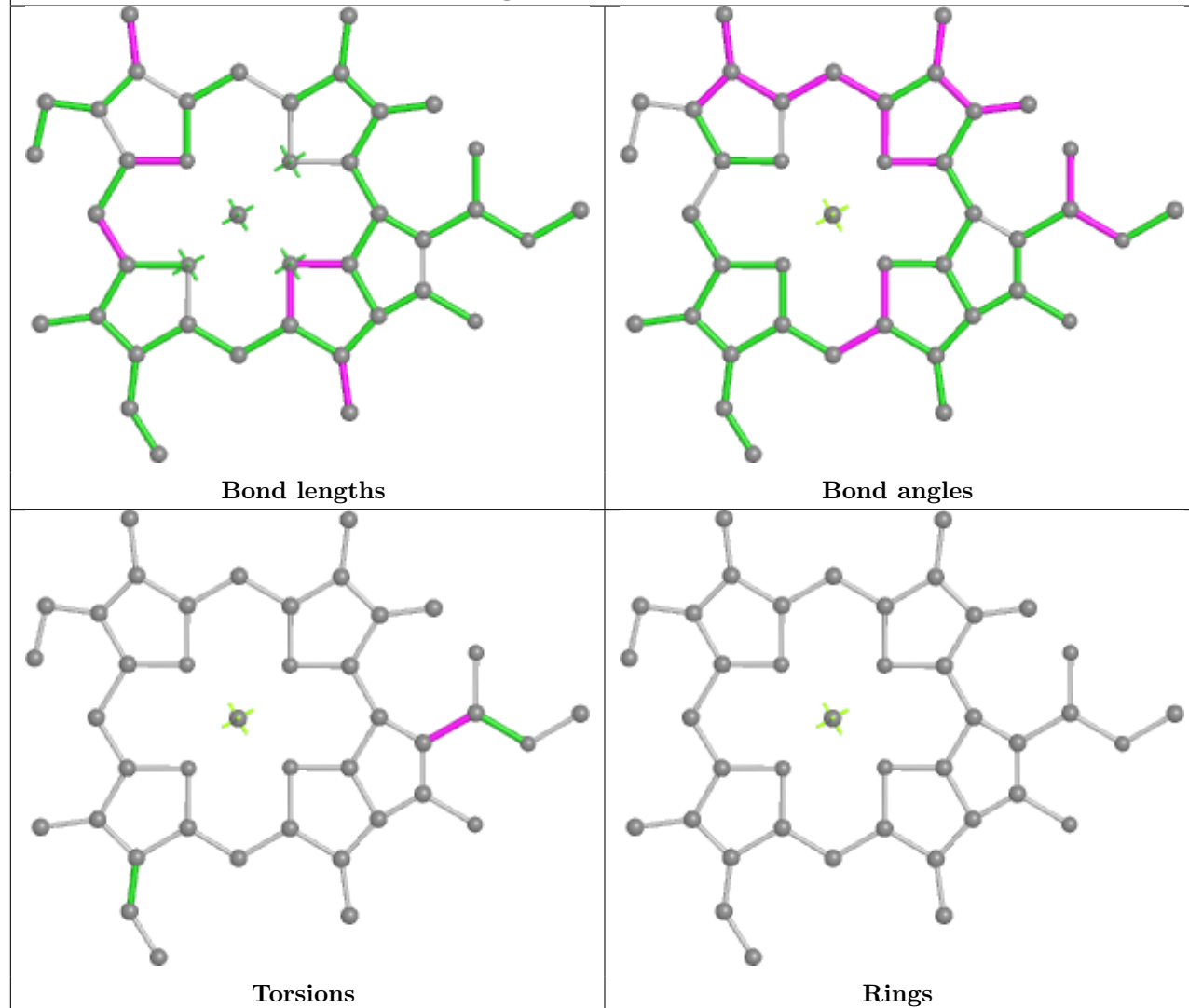
Ligand CLA b 836

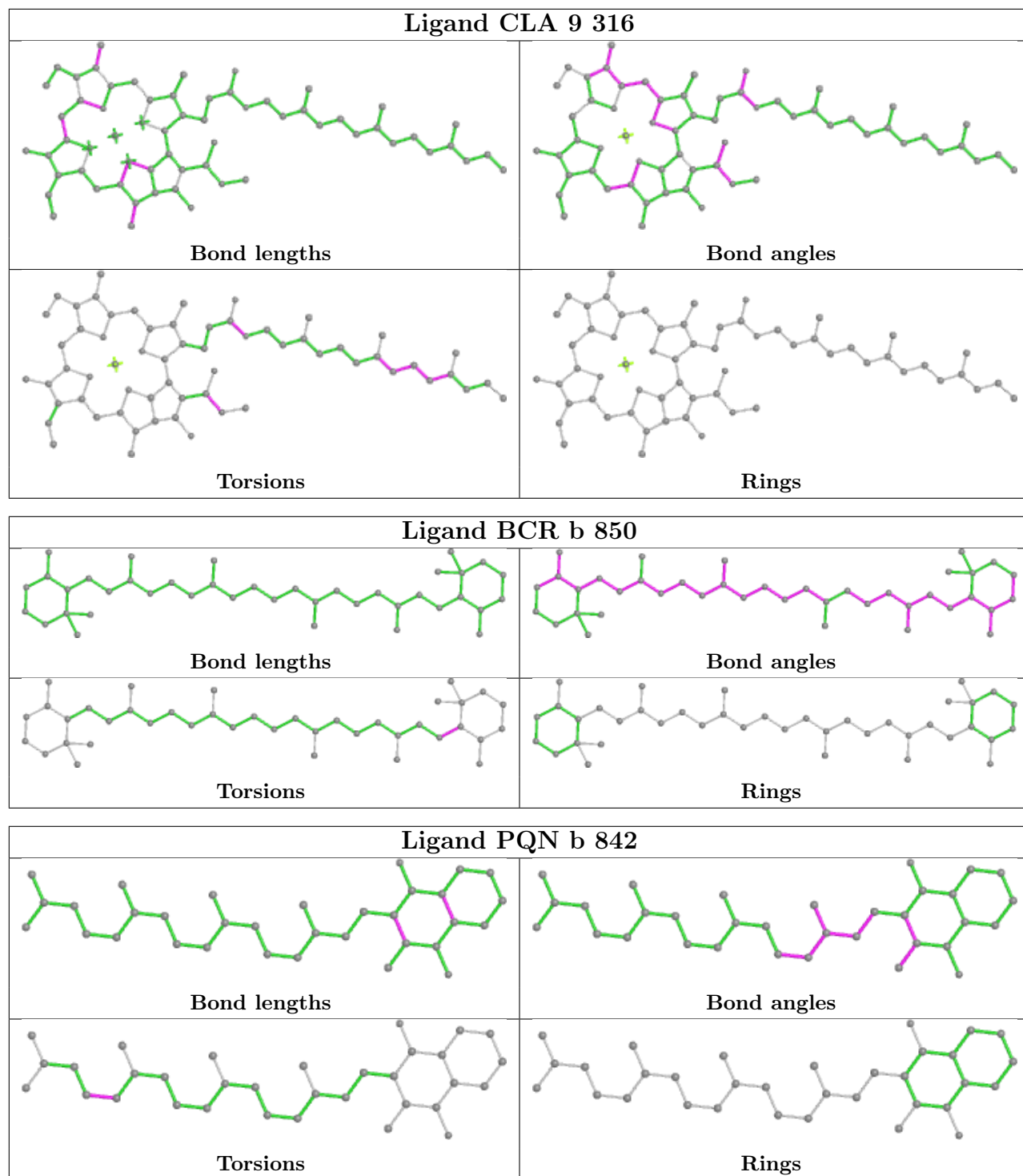


Ligand CLA b 813

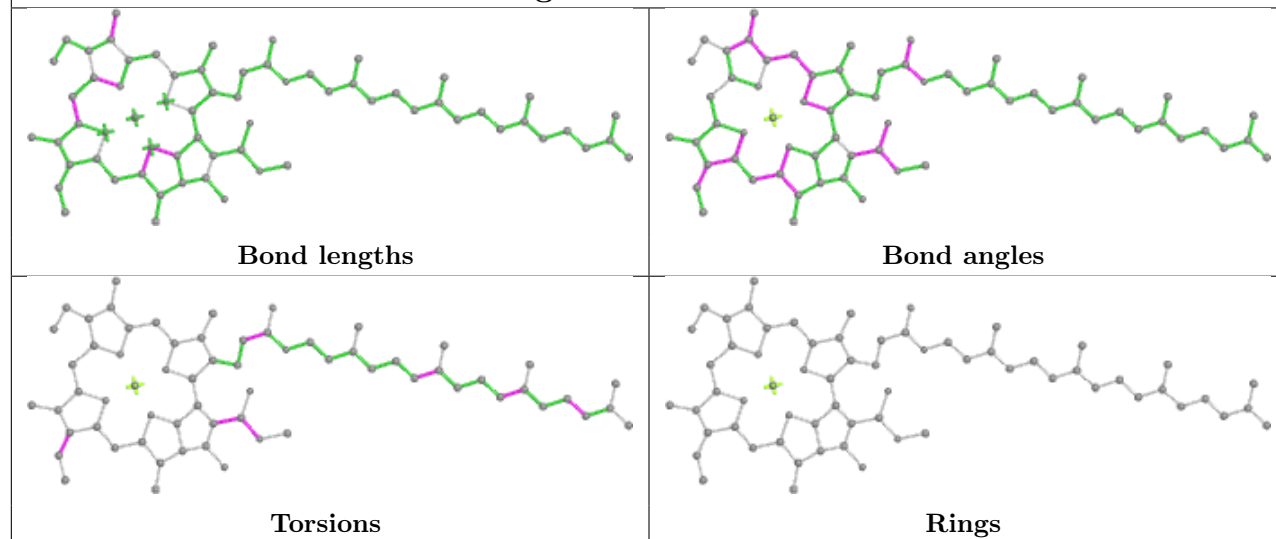


Ligand CLA b 830

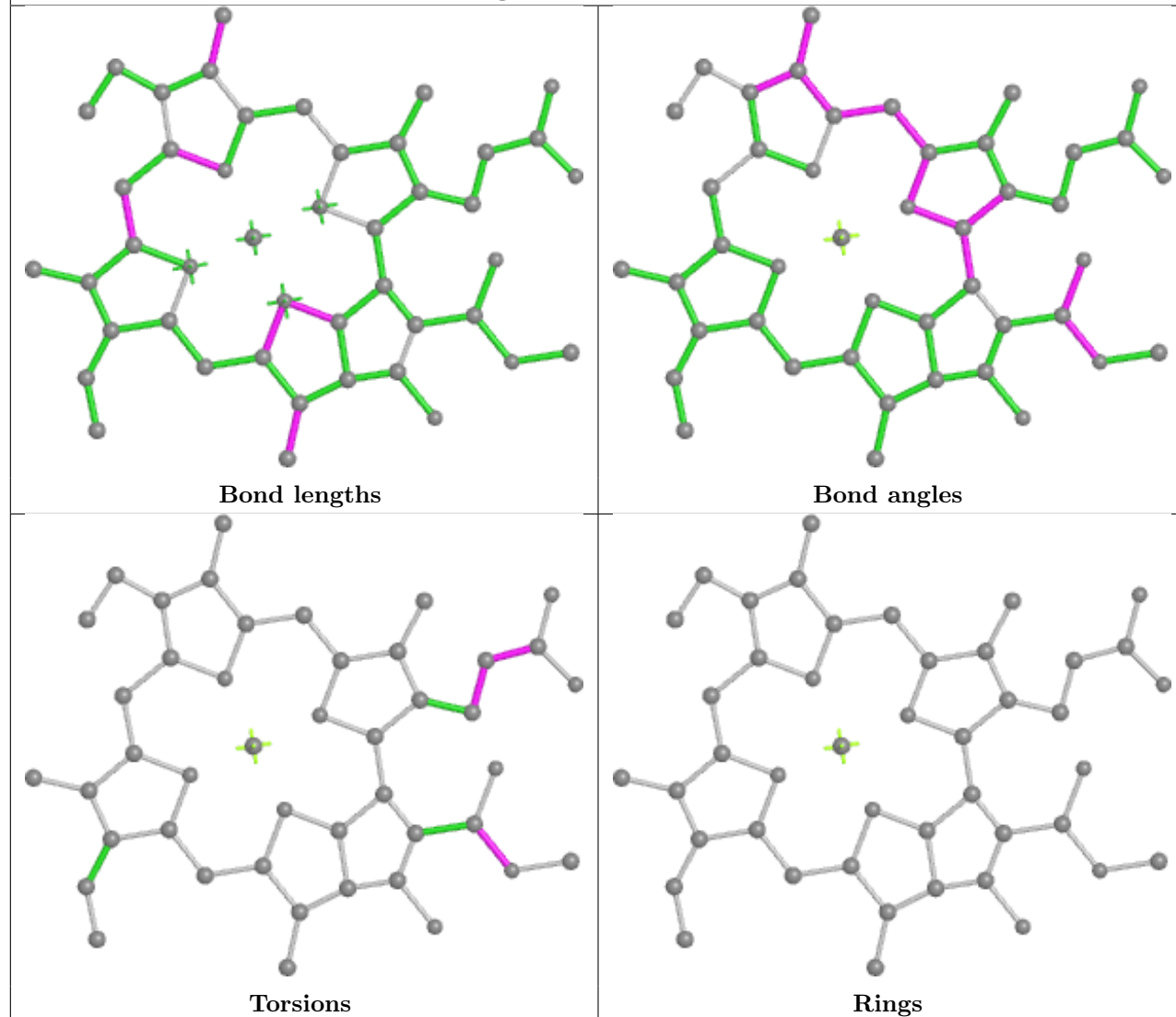


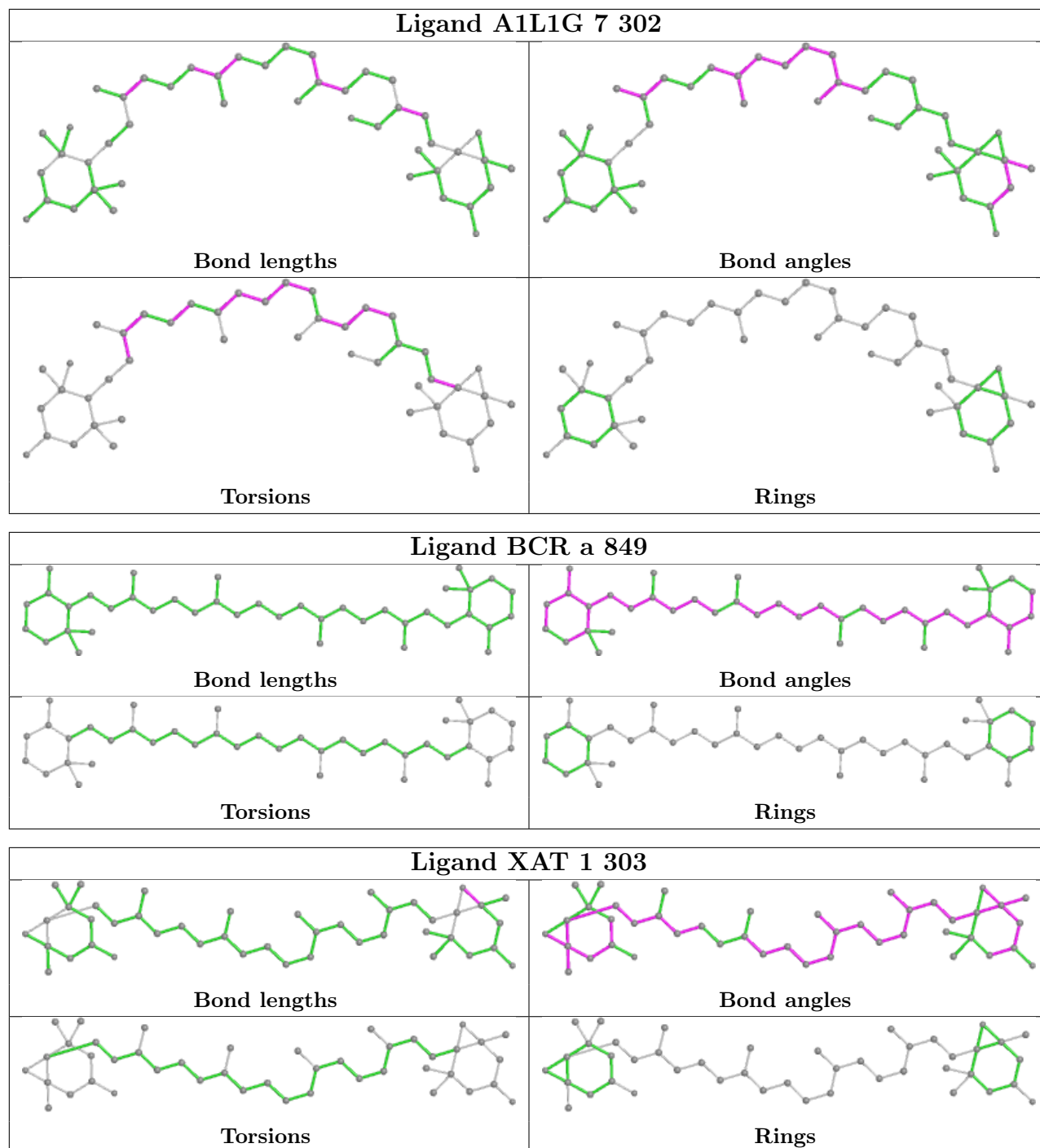


Ligand CLA b 803

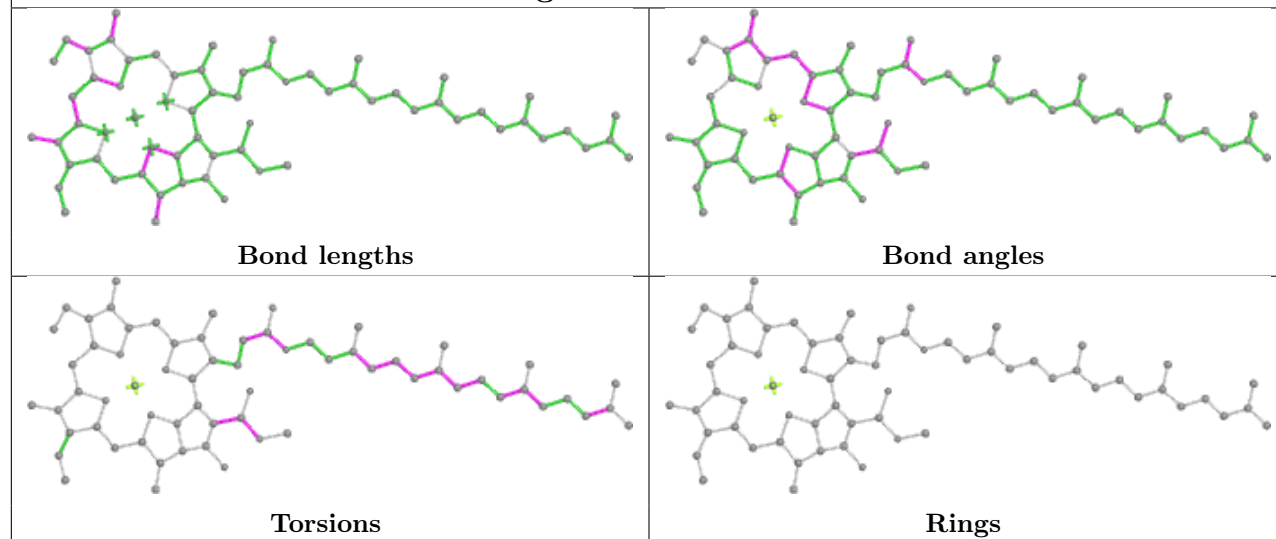


Ligand CLA 7 314

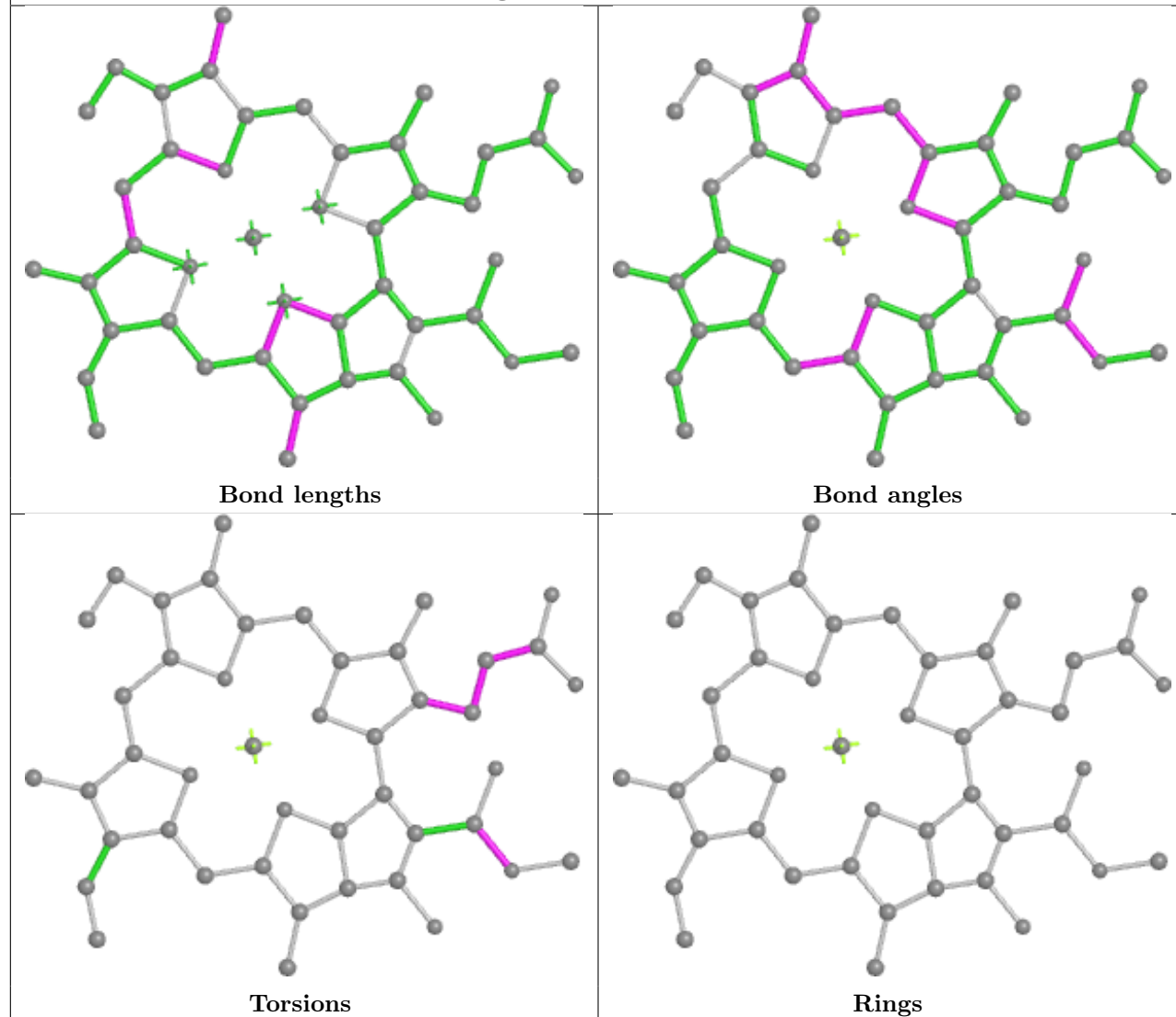




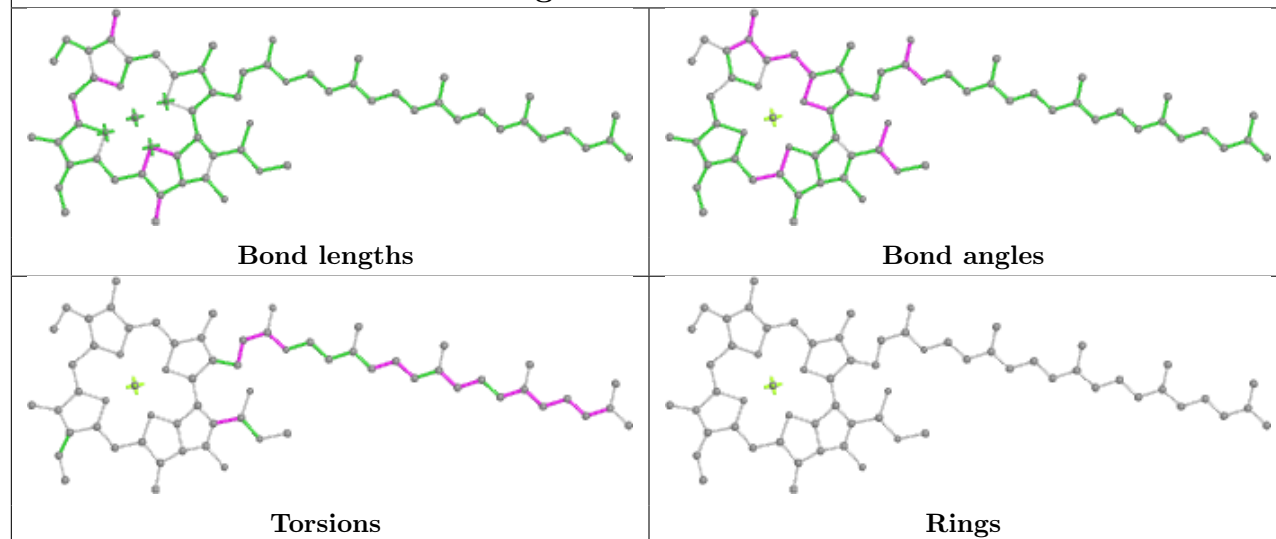
Ligand CLA a 801



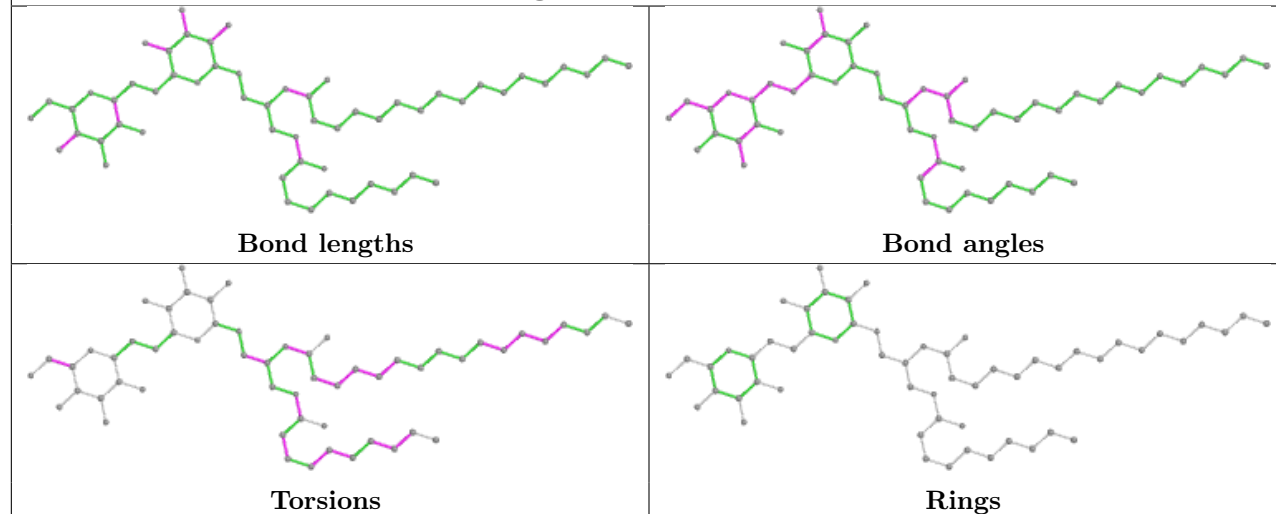
Ligand CLA 4 306



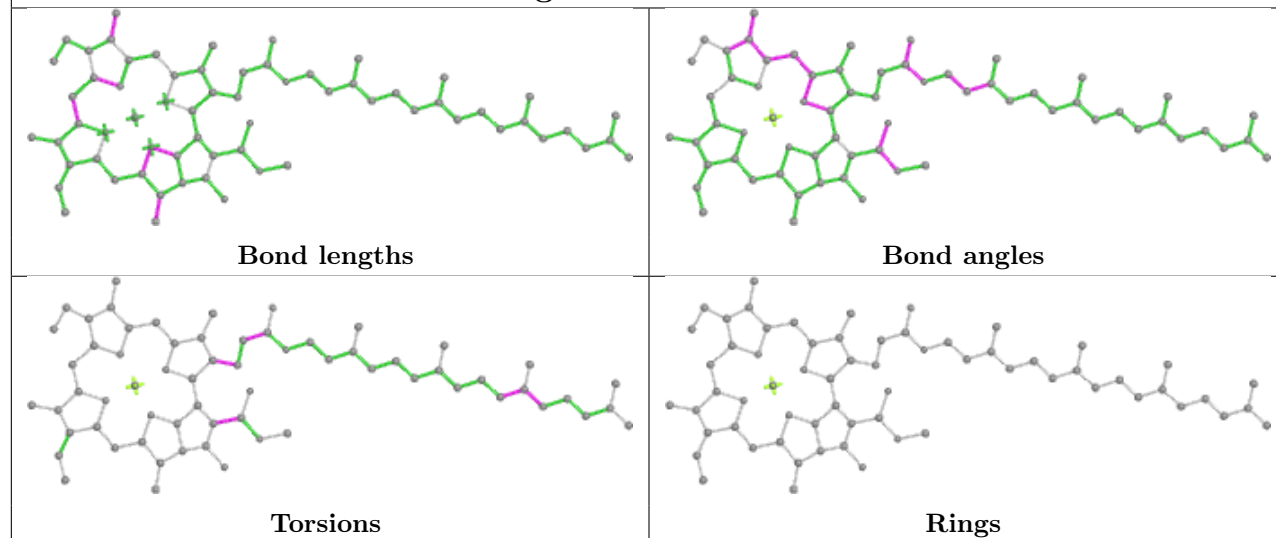
Ligand CLA b 801

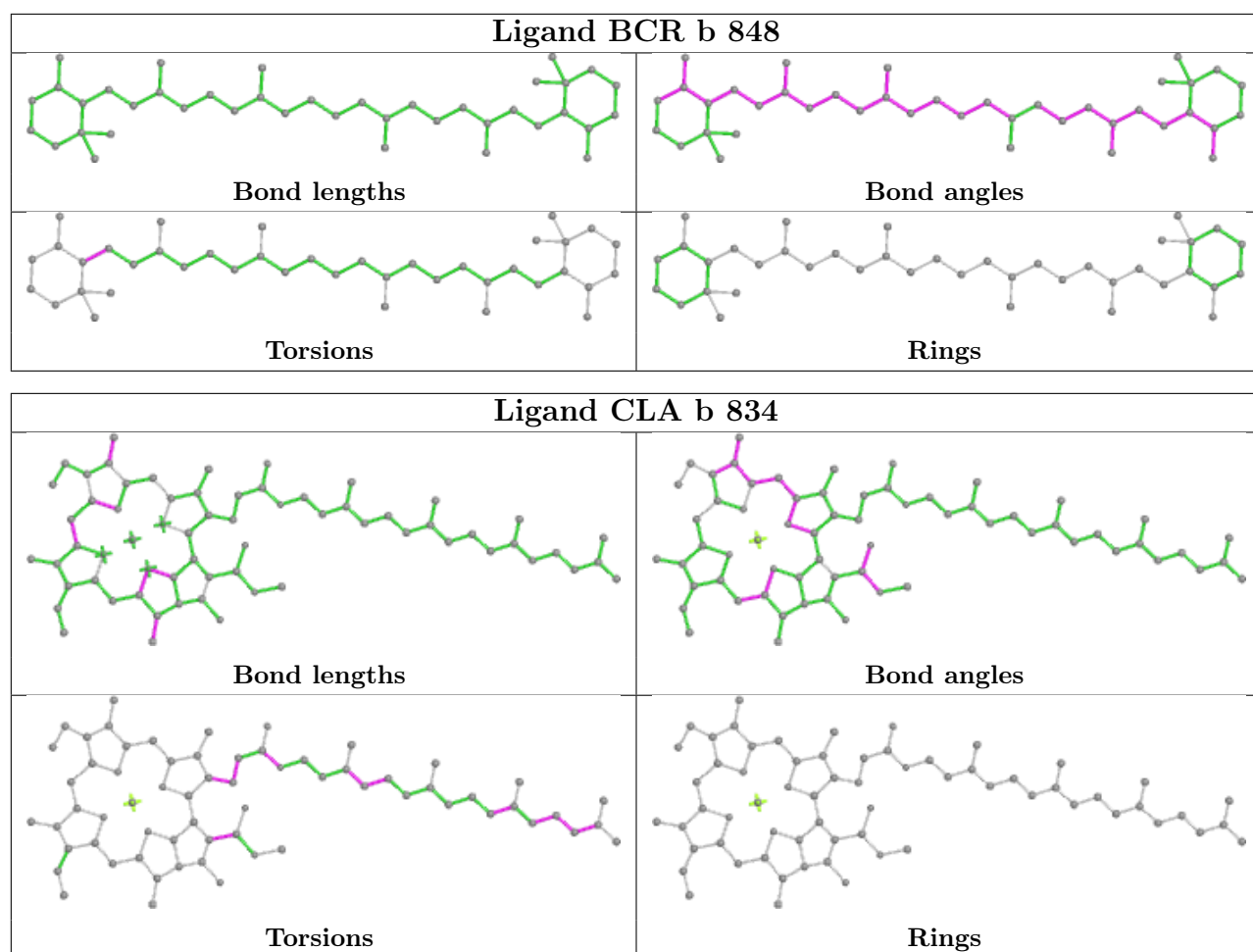


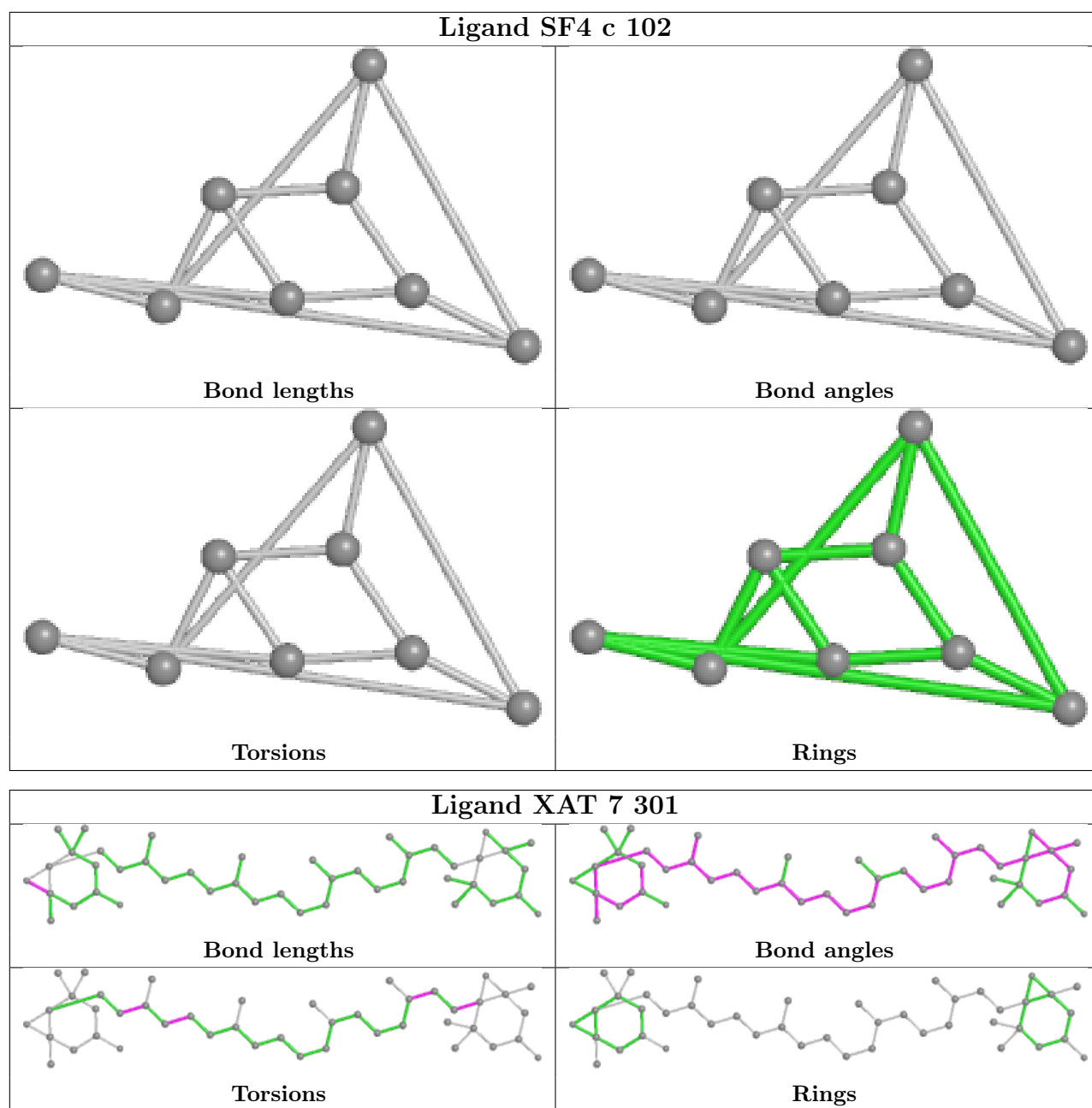
Ligand DGD b 851



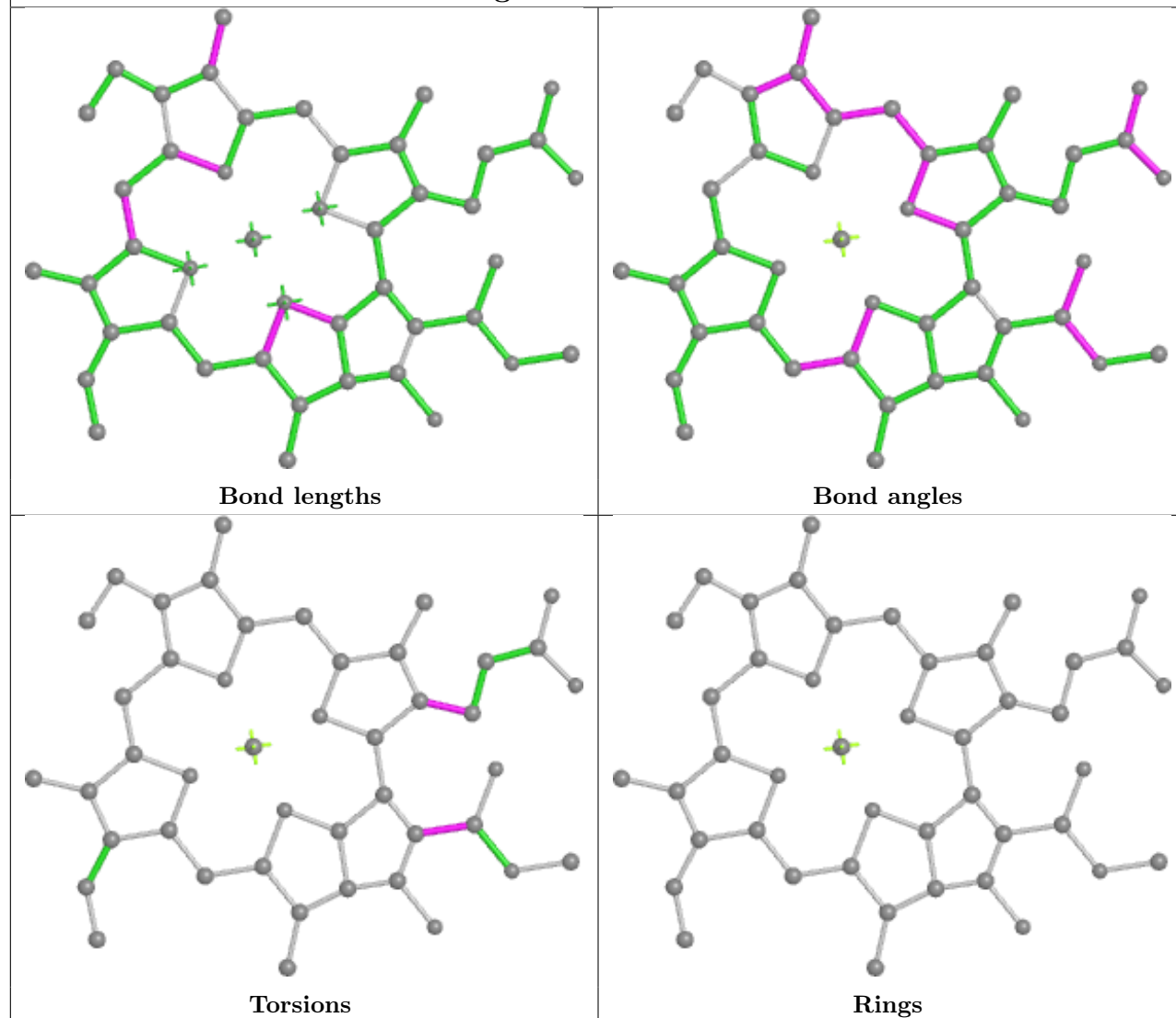
Ligand CLA b 838



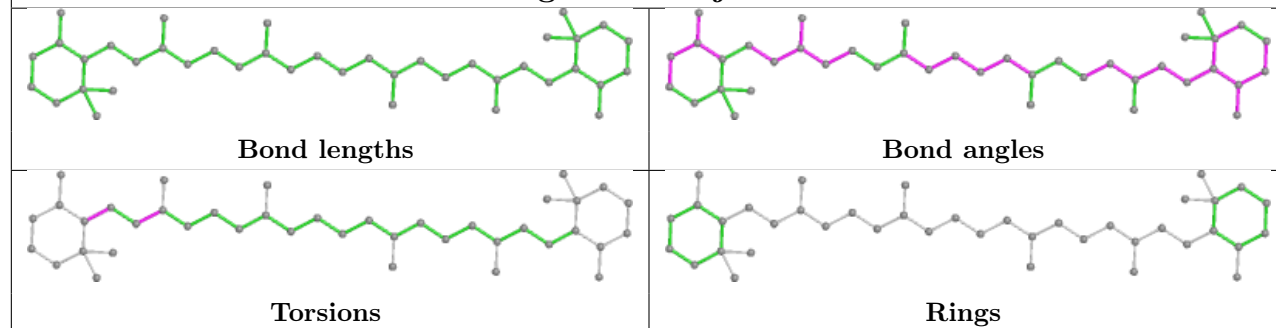


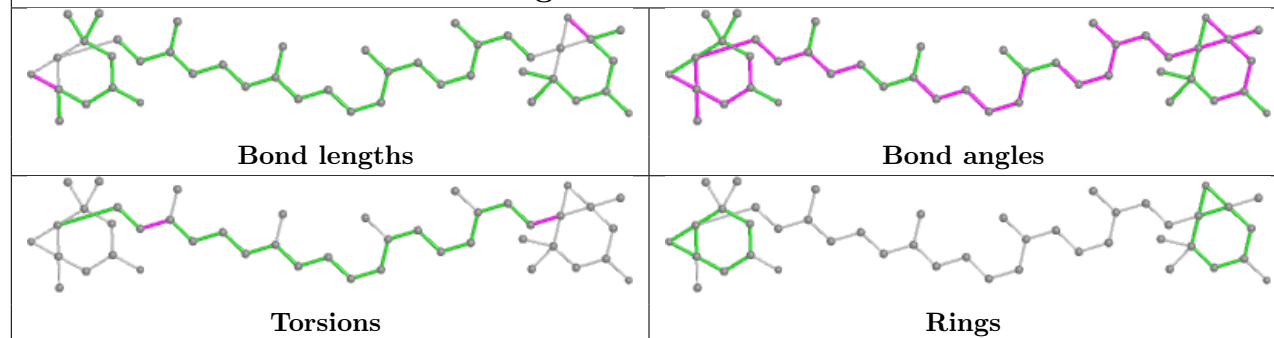
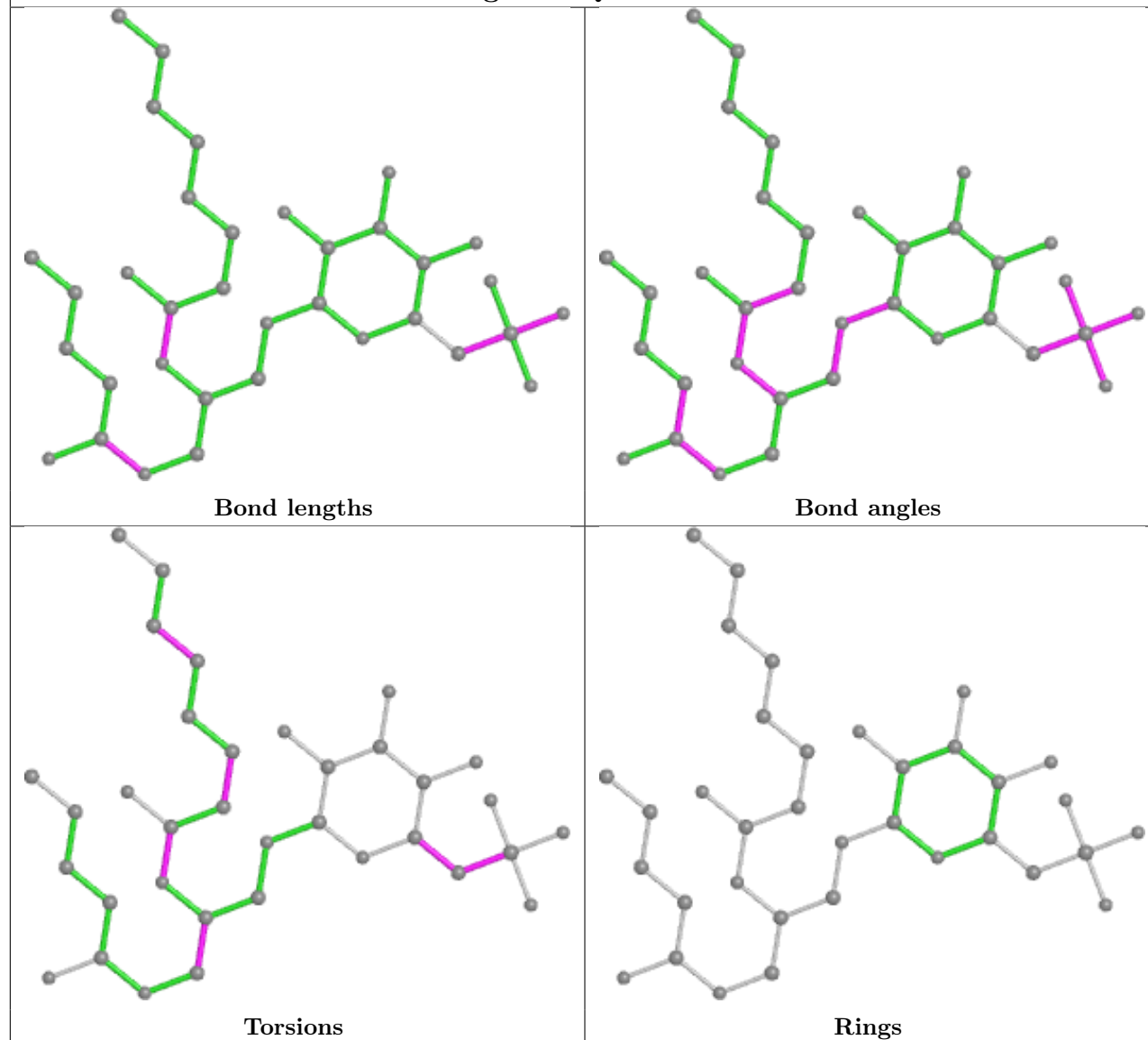


Ligand CLA a 815

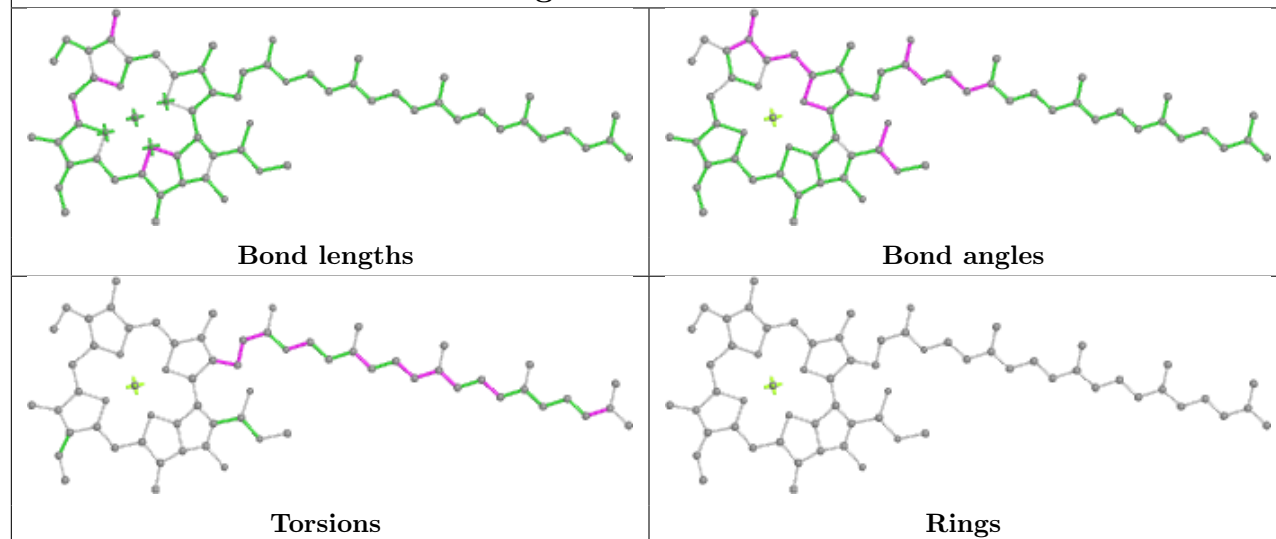


Ligand BCR j 102

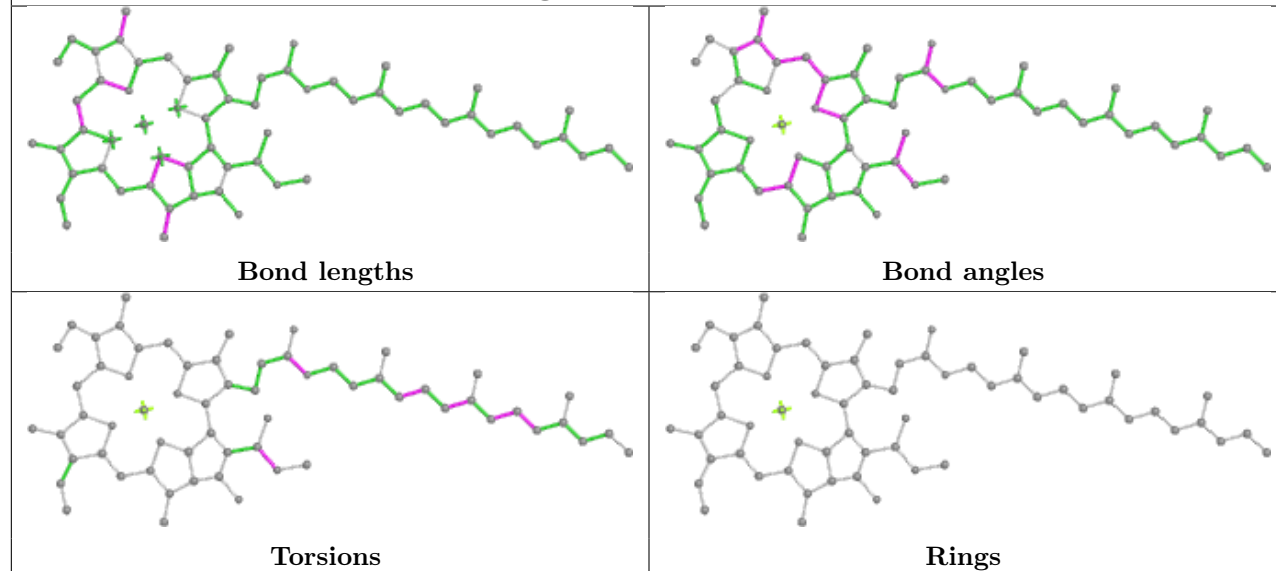


Ligand XAT 4 301**Ligand SQD 5 317**

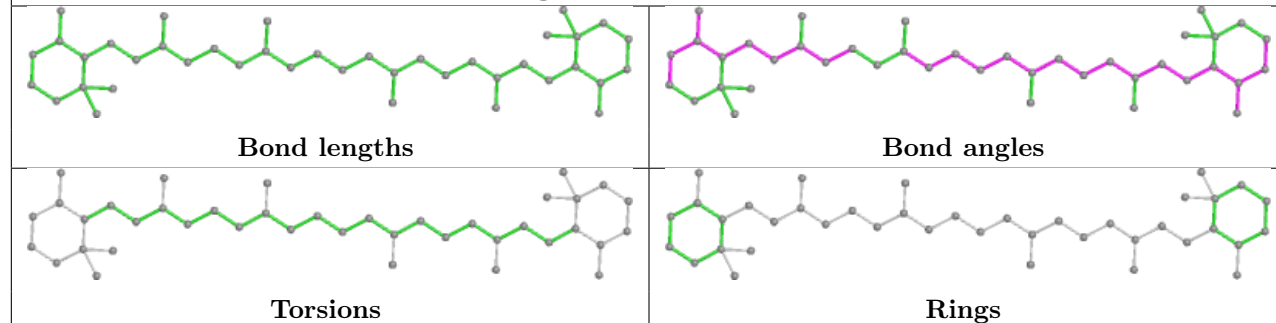
Ligand CLA b 809

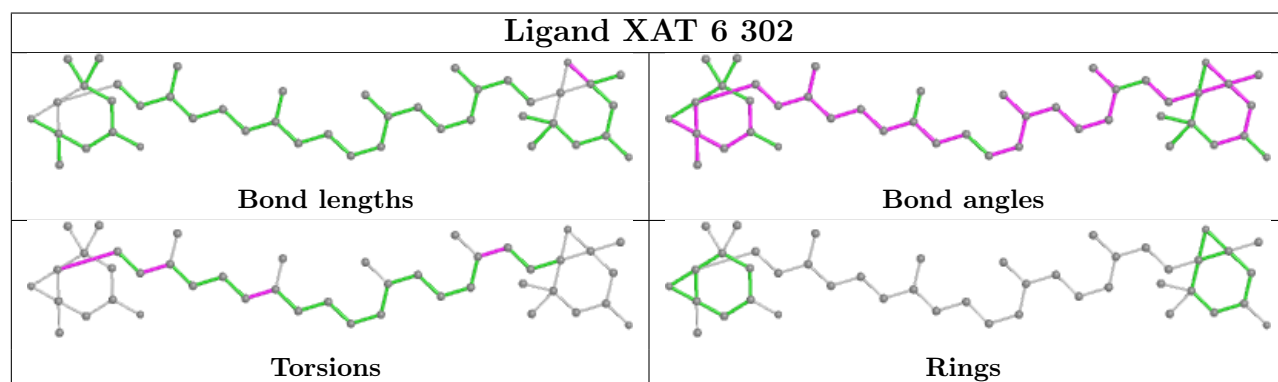
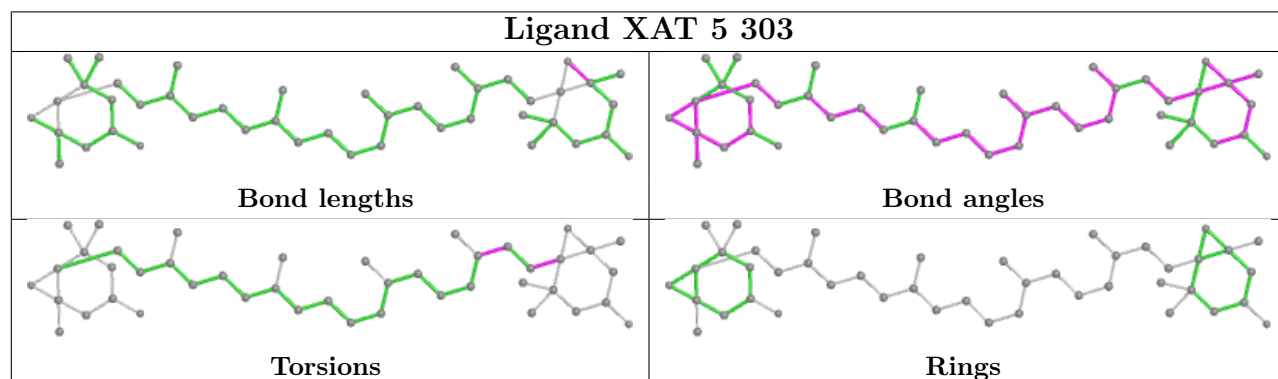
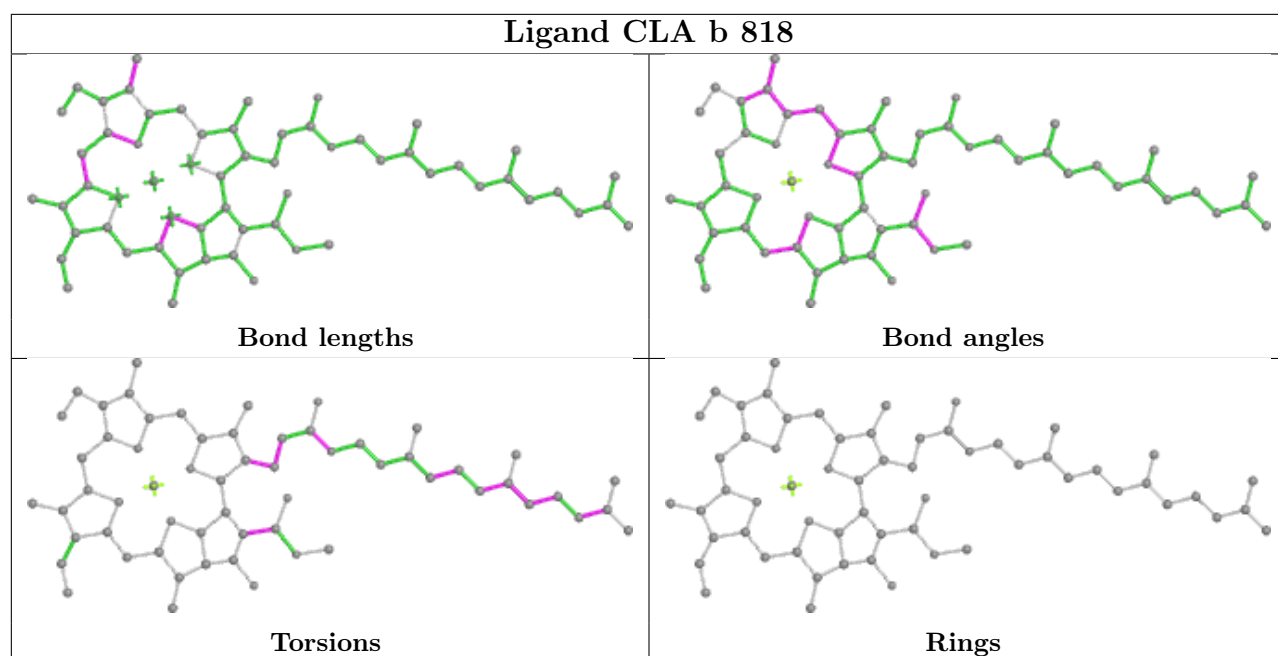


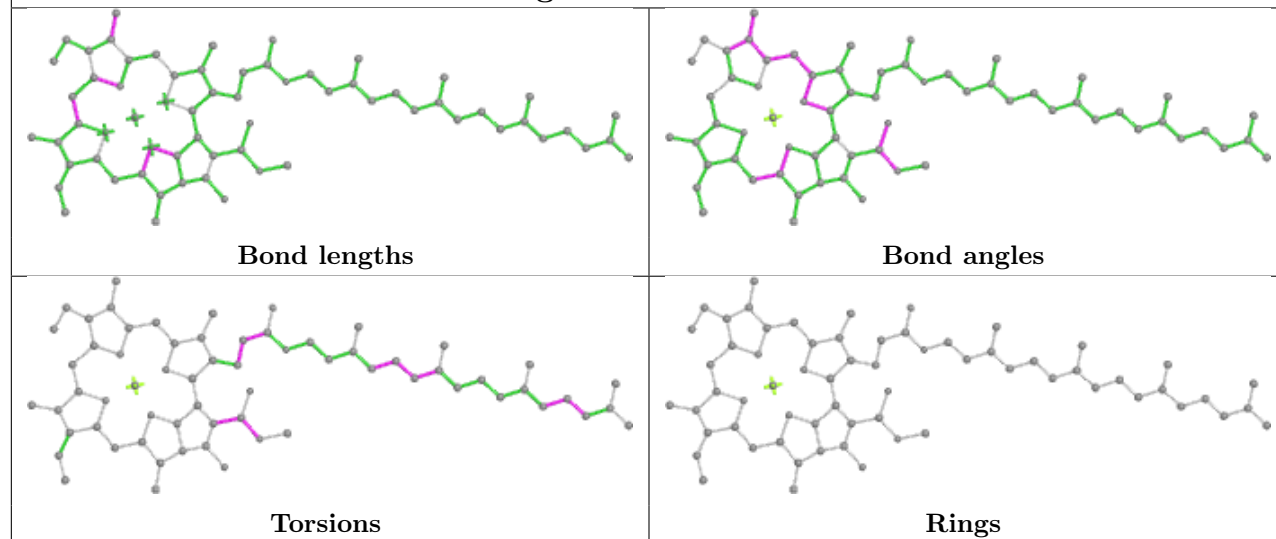
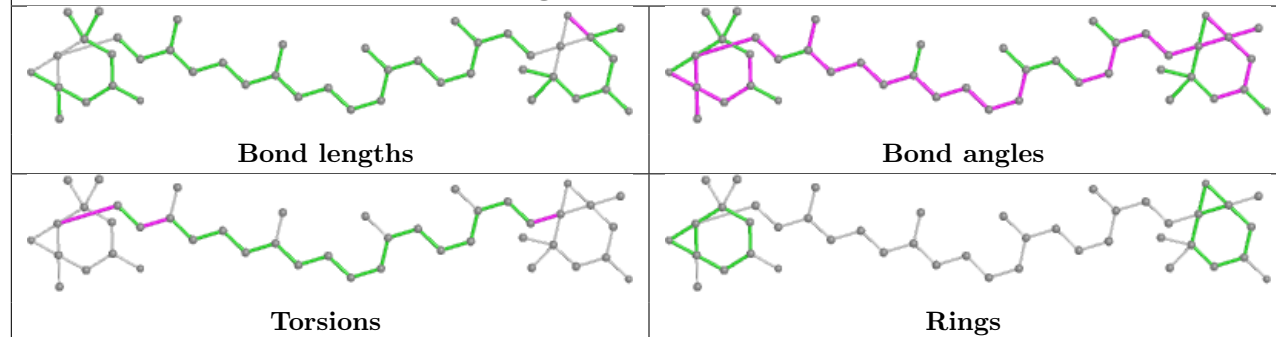
Ligand CLA a 812



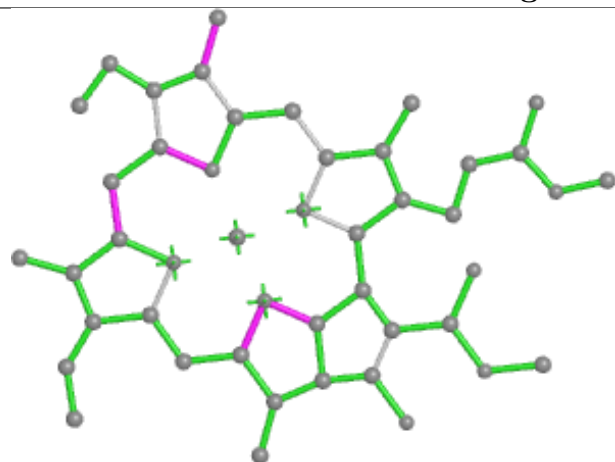
Ligand BCR a 847



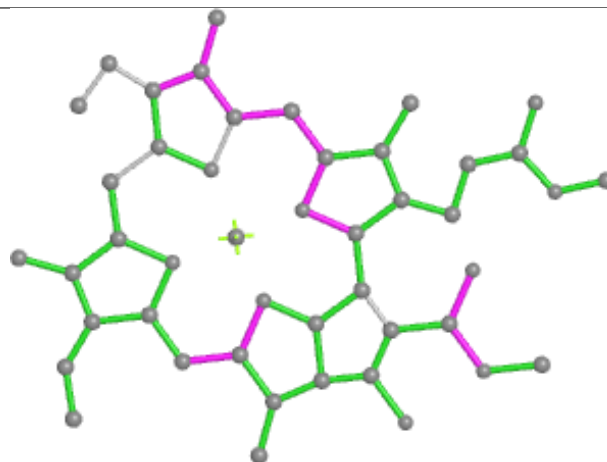


Ligand CLA 5 310**Ligand XAT 4 305**

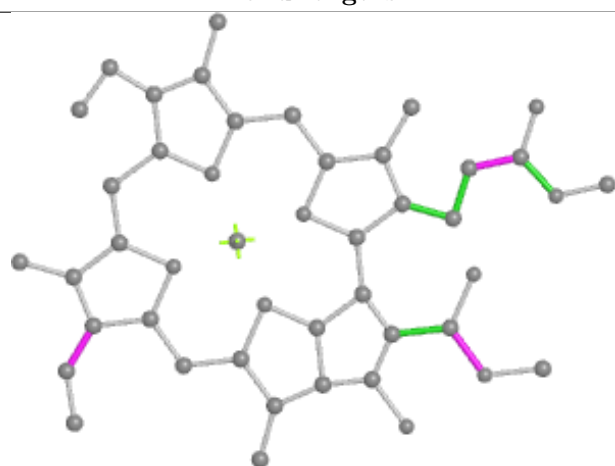
Ligand CLA 5 316



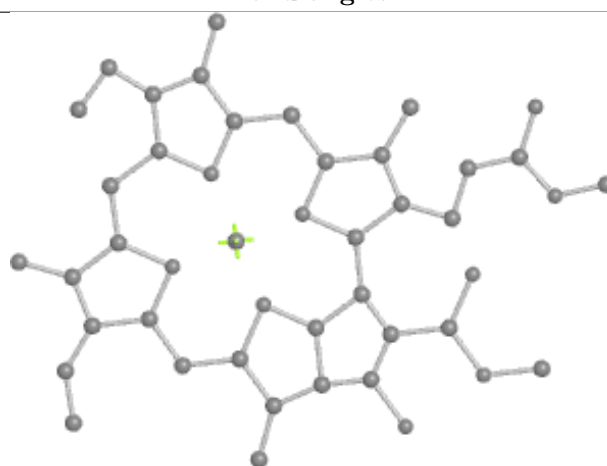
Bond lengths



Bond angles

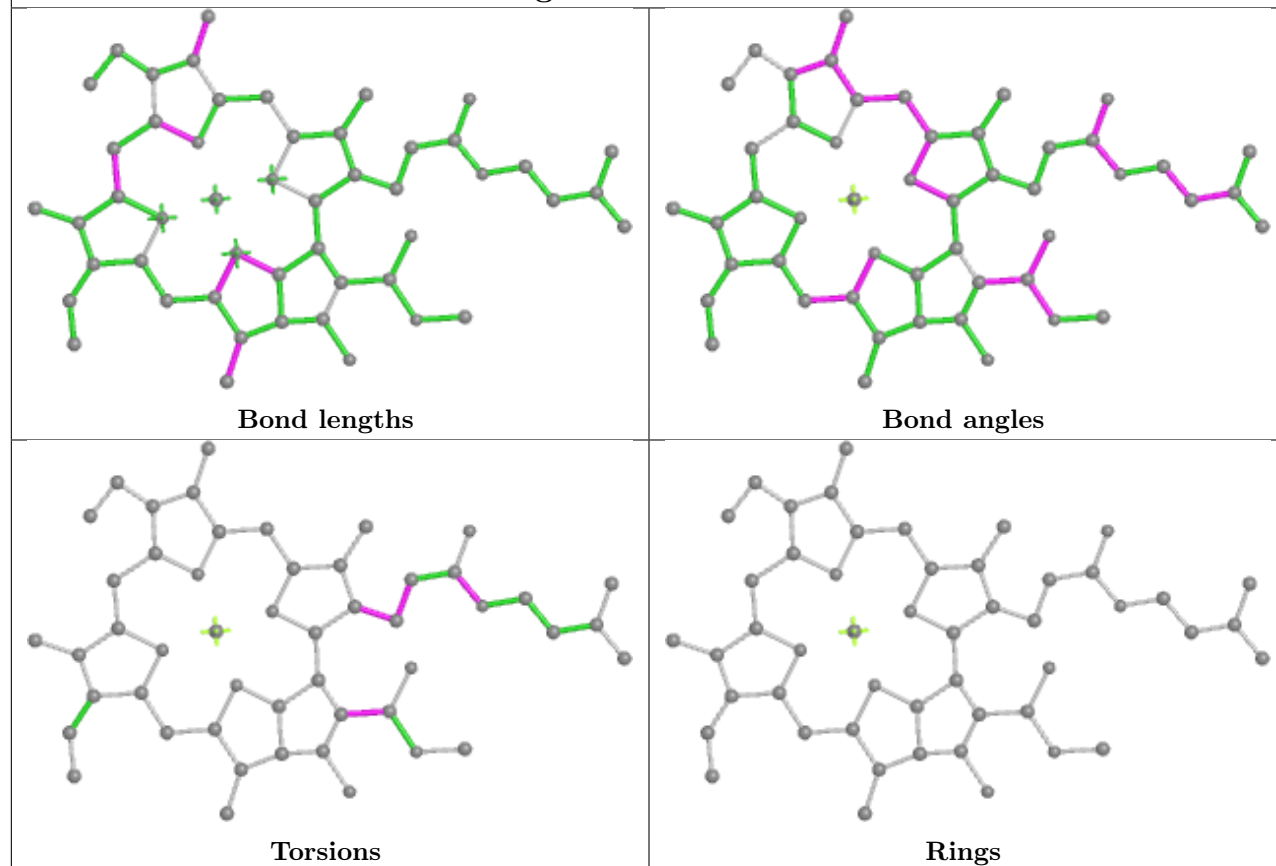


Torsions

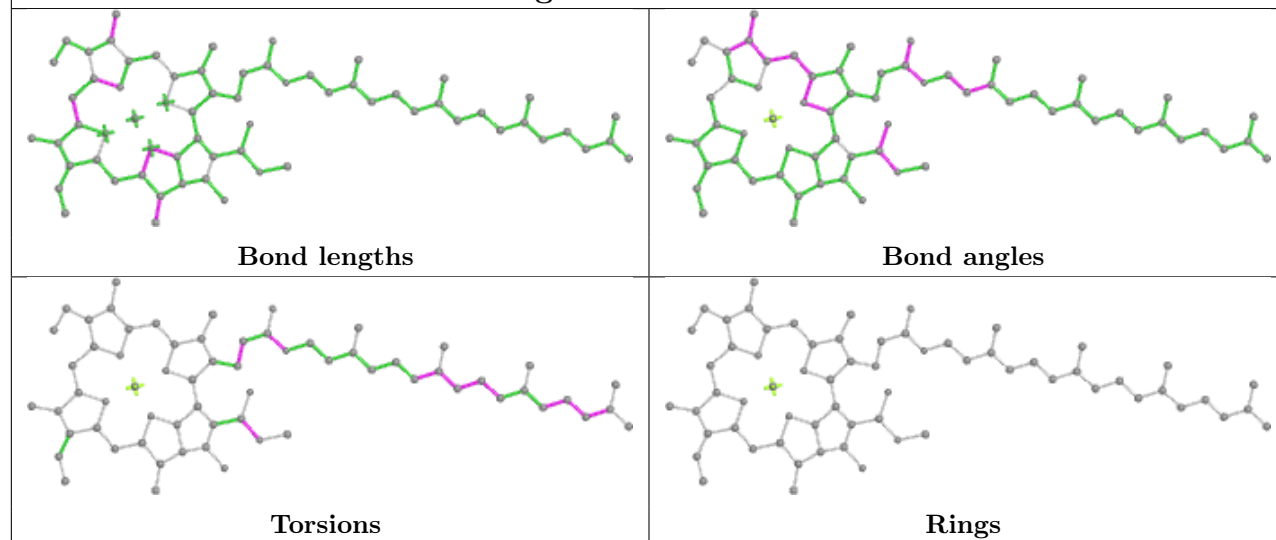


Rings

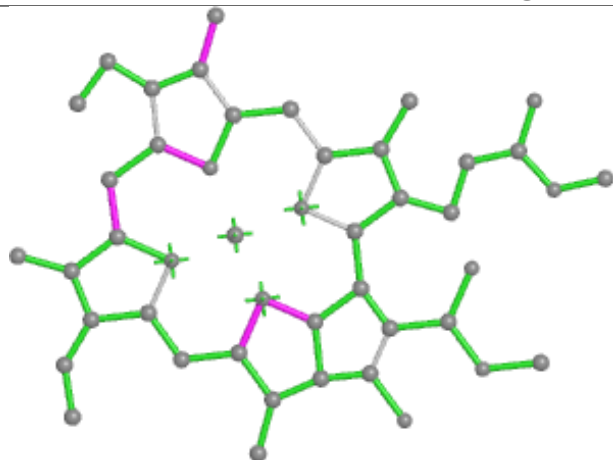
Ligand CLA b 820



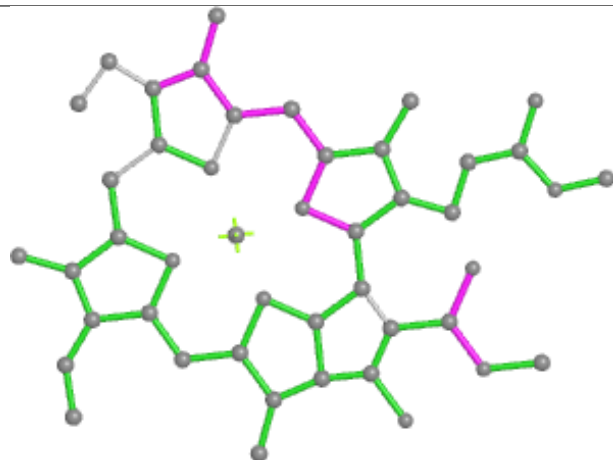
Ligand CLA b 827



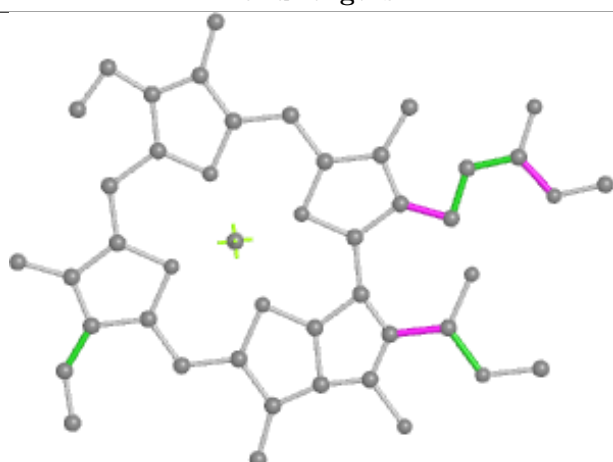
Ligand CLA 9 310



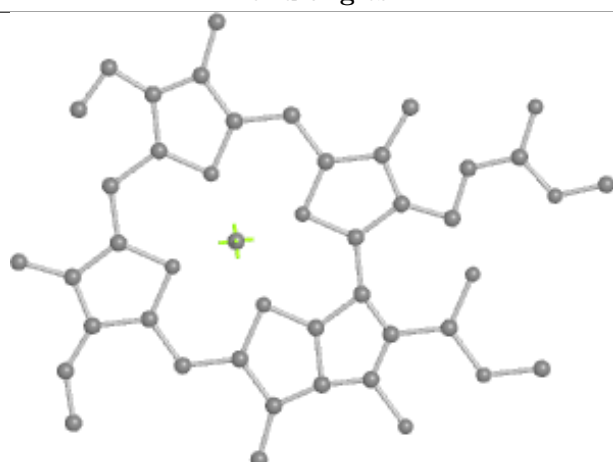
Bond lengths



Bond angles

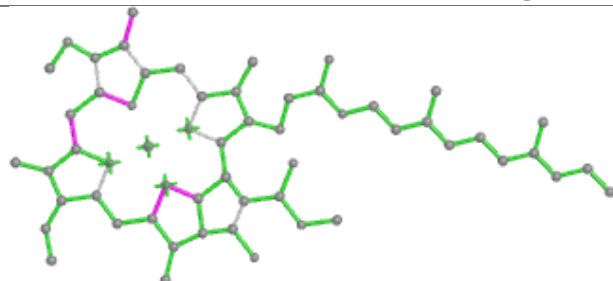


Torsions

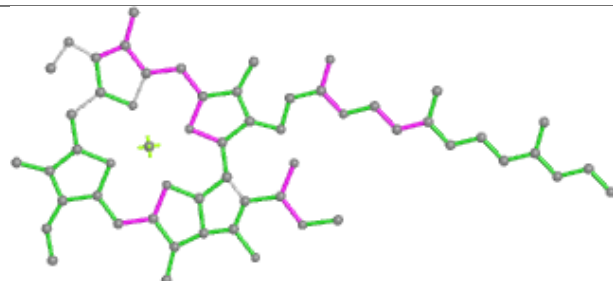


Rings

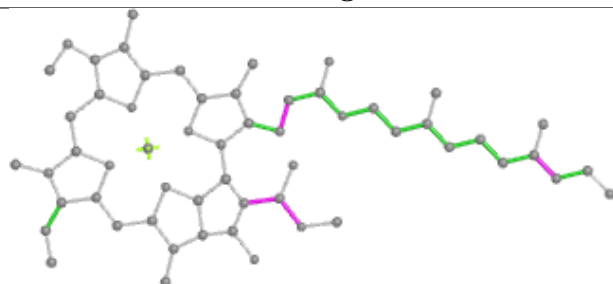
Ligand CLA 8 309



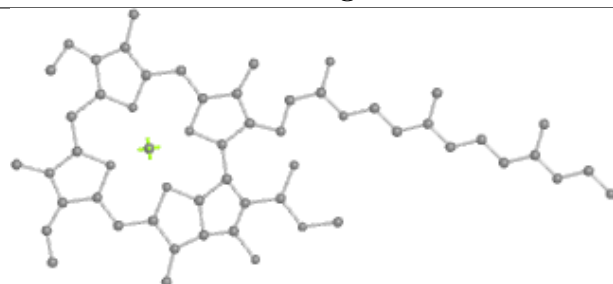
Bond lengths



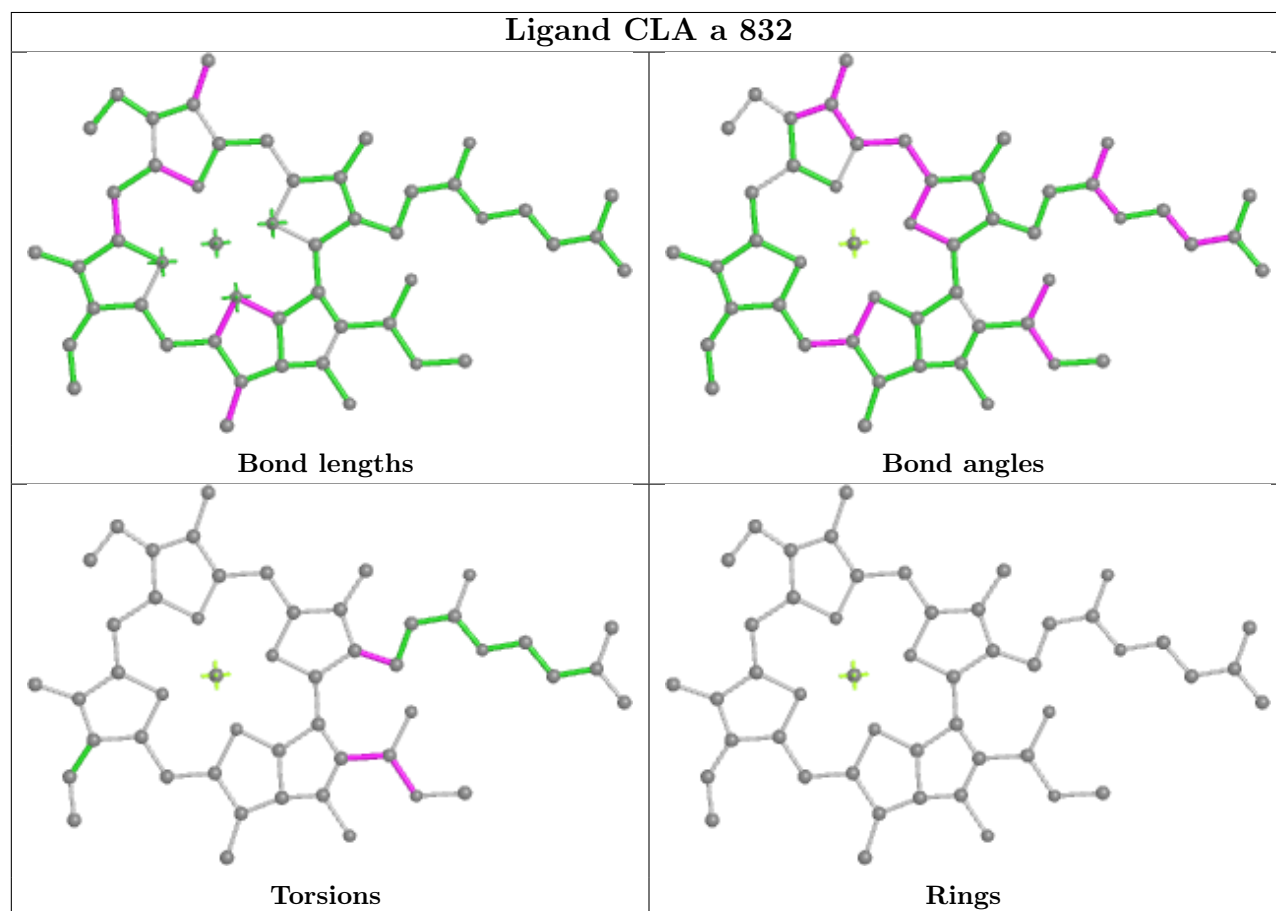
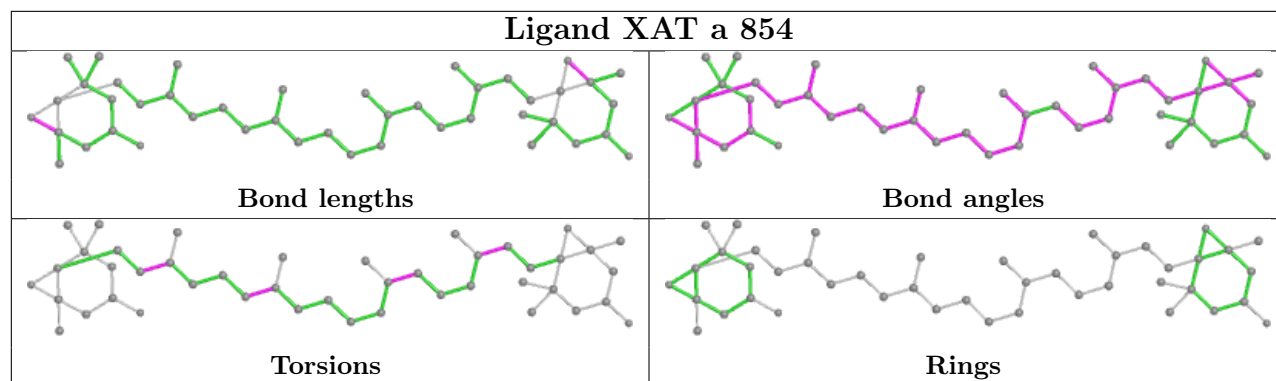
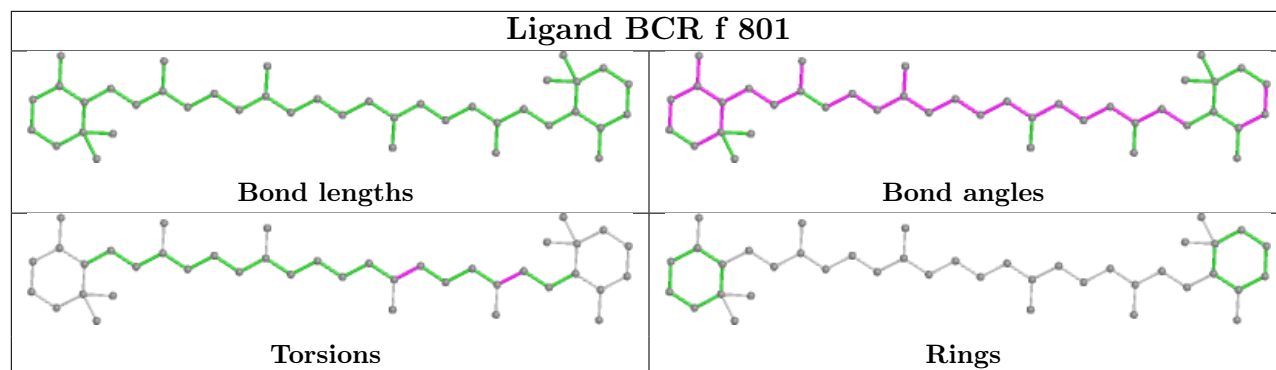
Bond angles



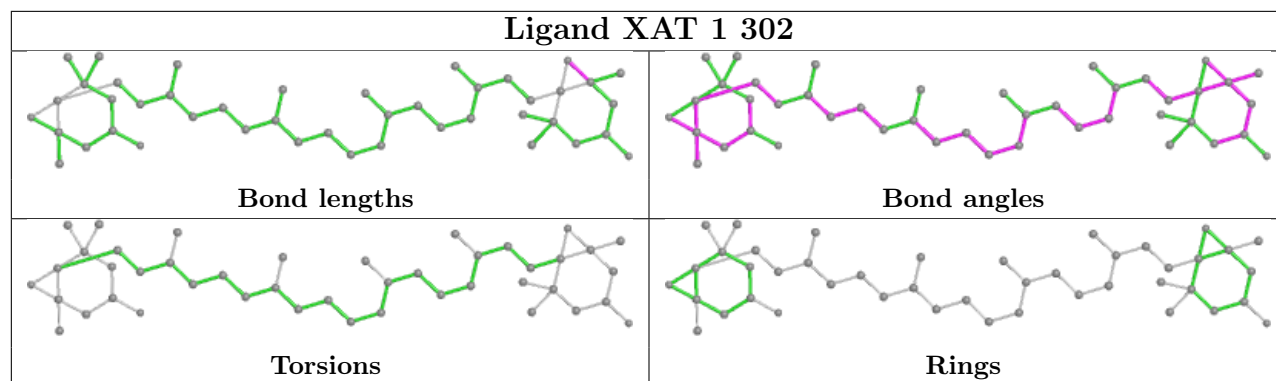
Torsions



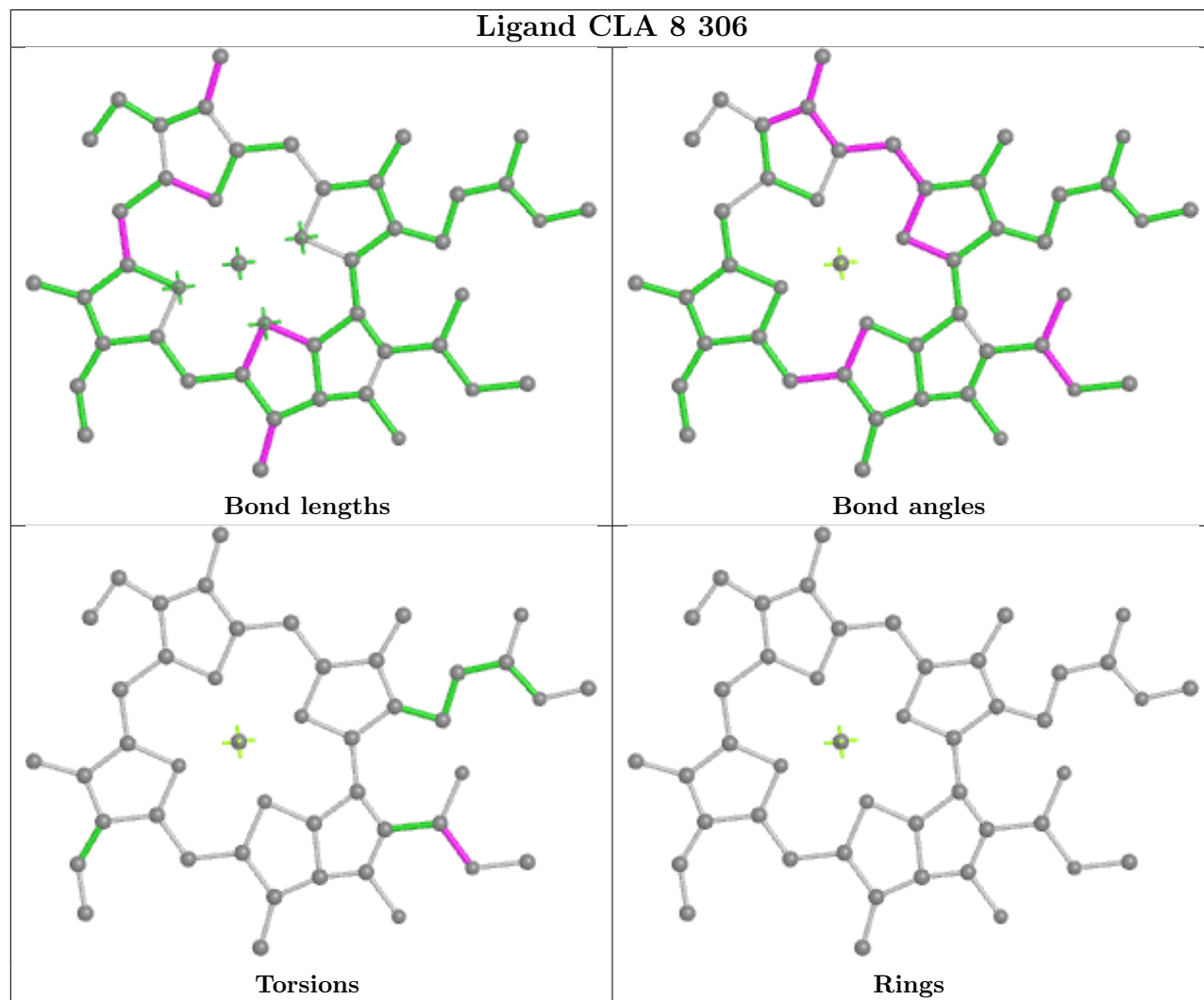
Rings



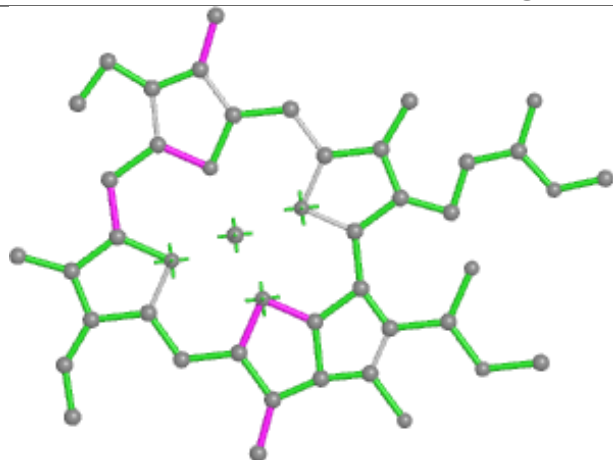
Ligand XAT 1 302



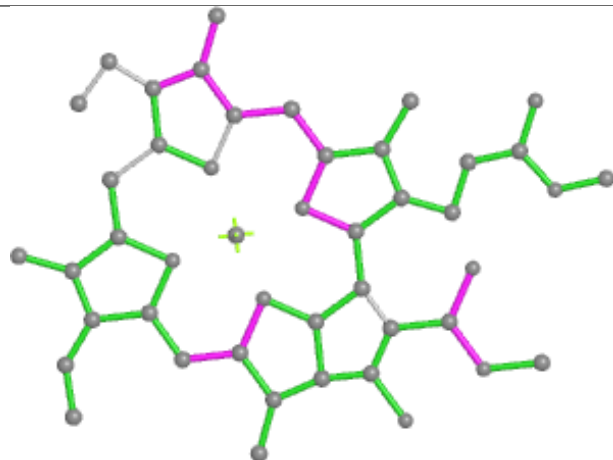
Ligand CLA 8 306



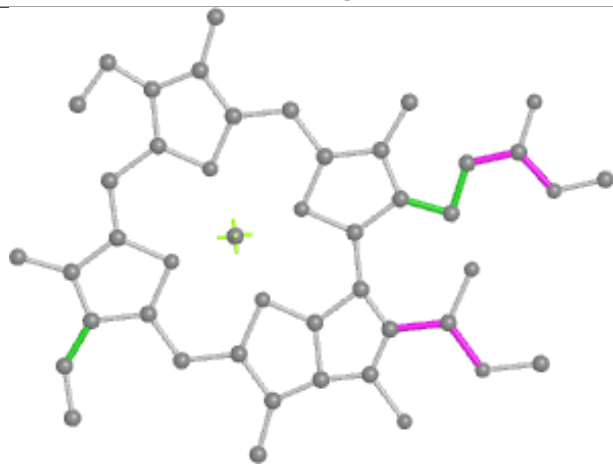
Ligand CLA 1 309



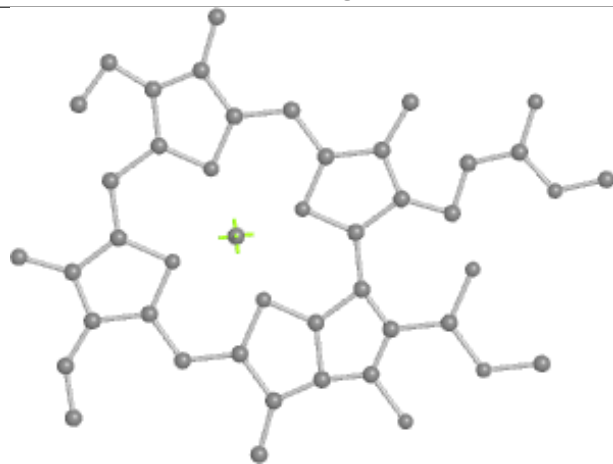
Bond lengths



Bond angles

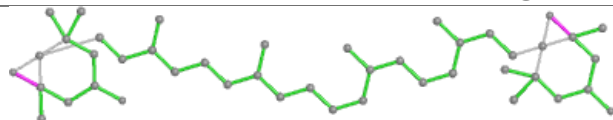


Torsions

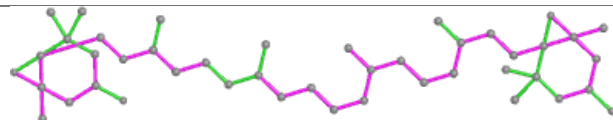


Rings

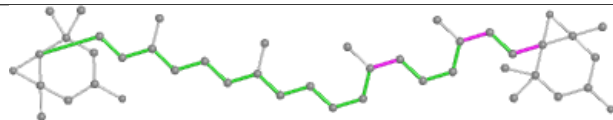
Ligand XAT 6 303



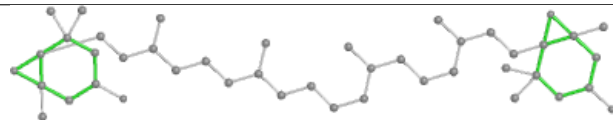
Bond lengths



Bond angles

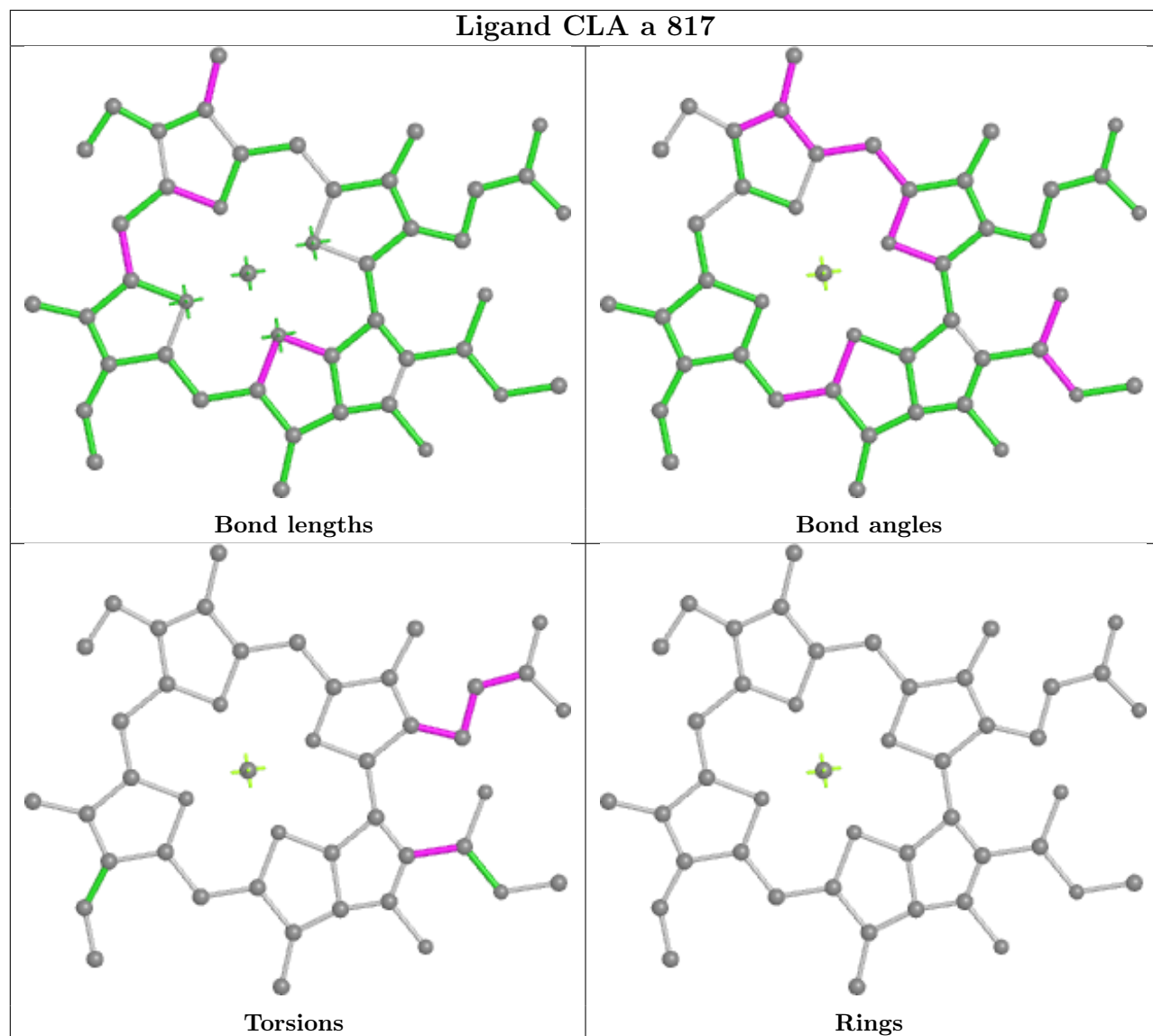


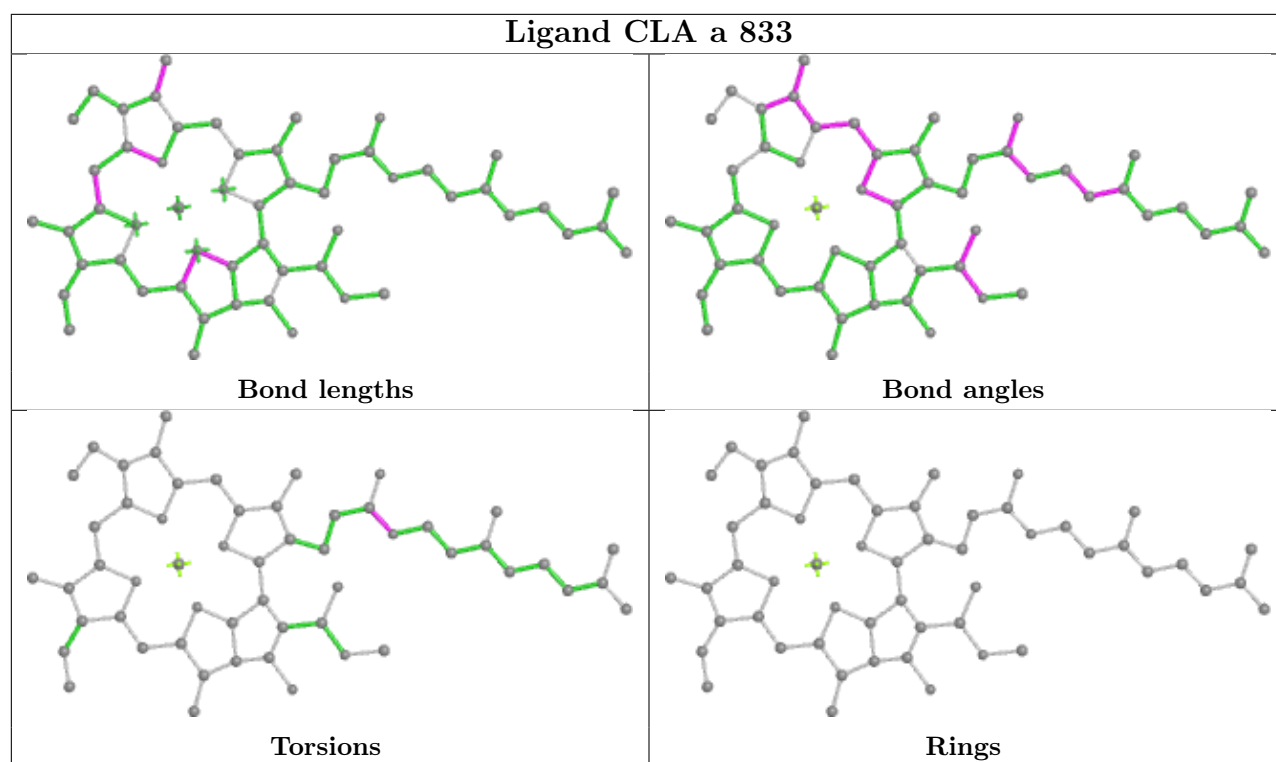
Torsions



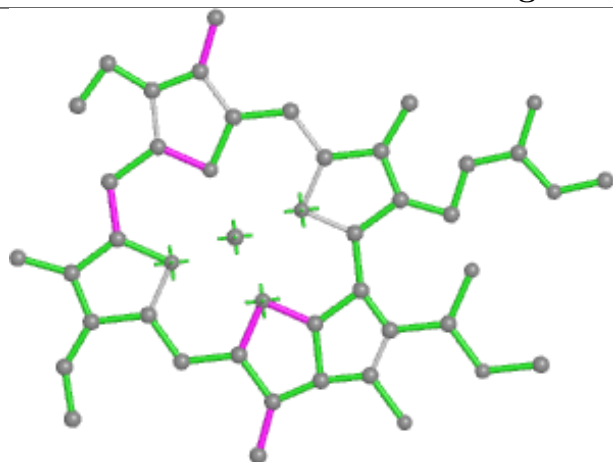
Rings

Ligand CLA a 817

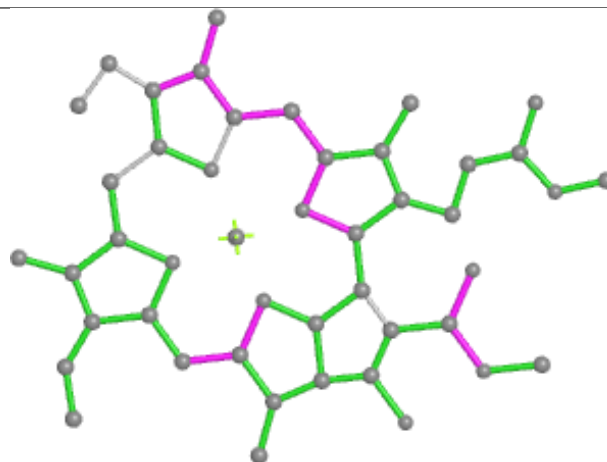




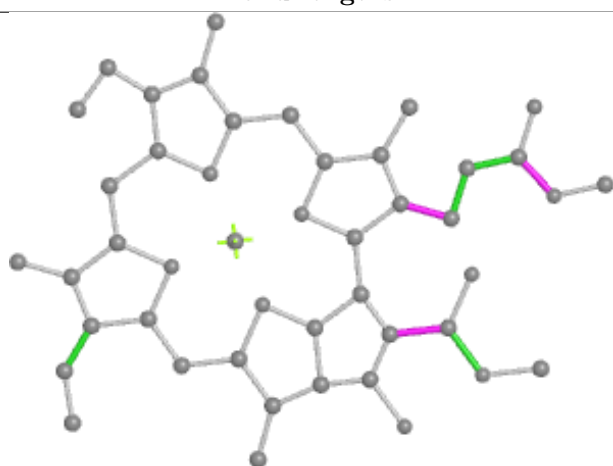
Ligand CLA 7 311



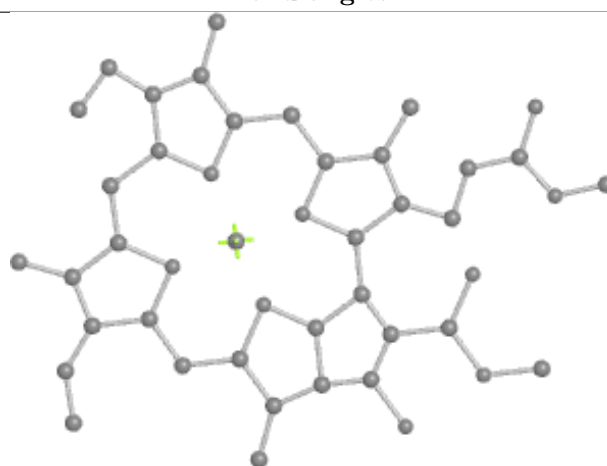
Bond lengths



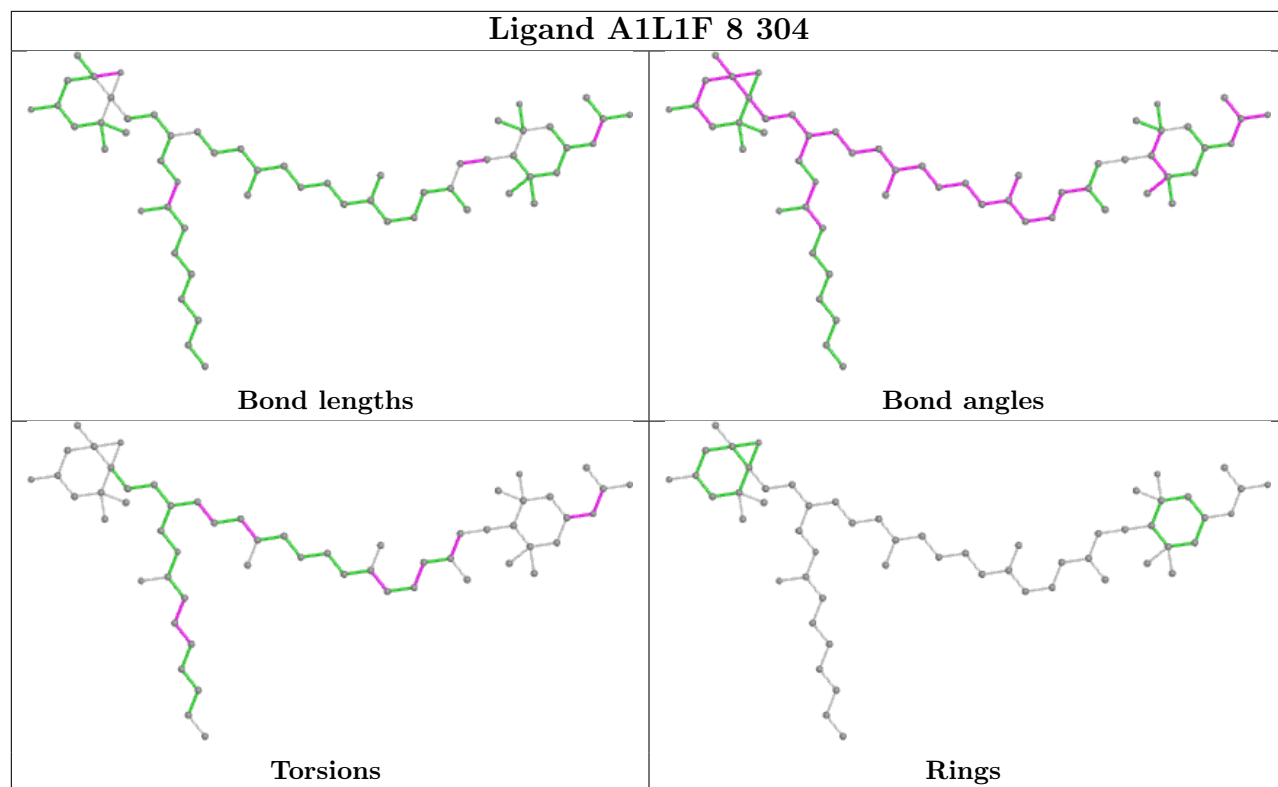
Bond angles



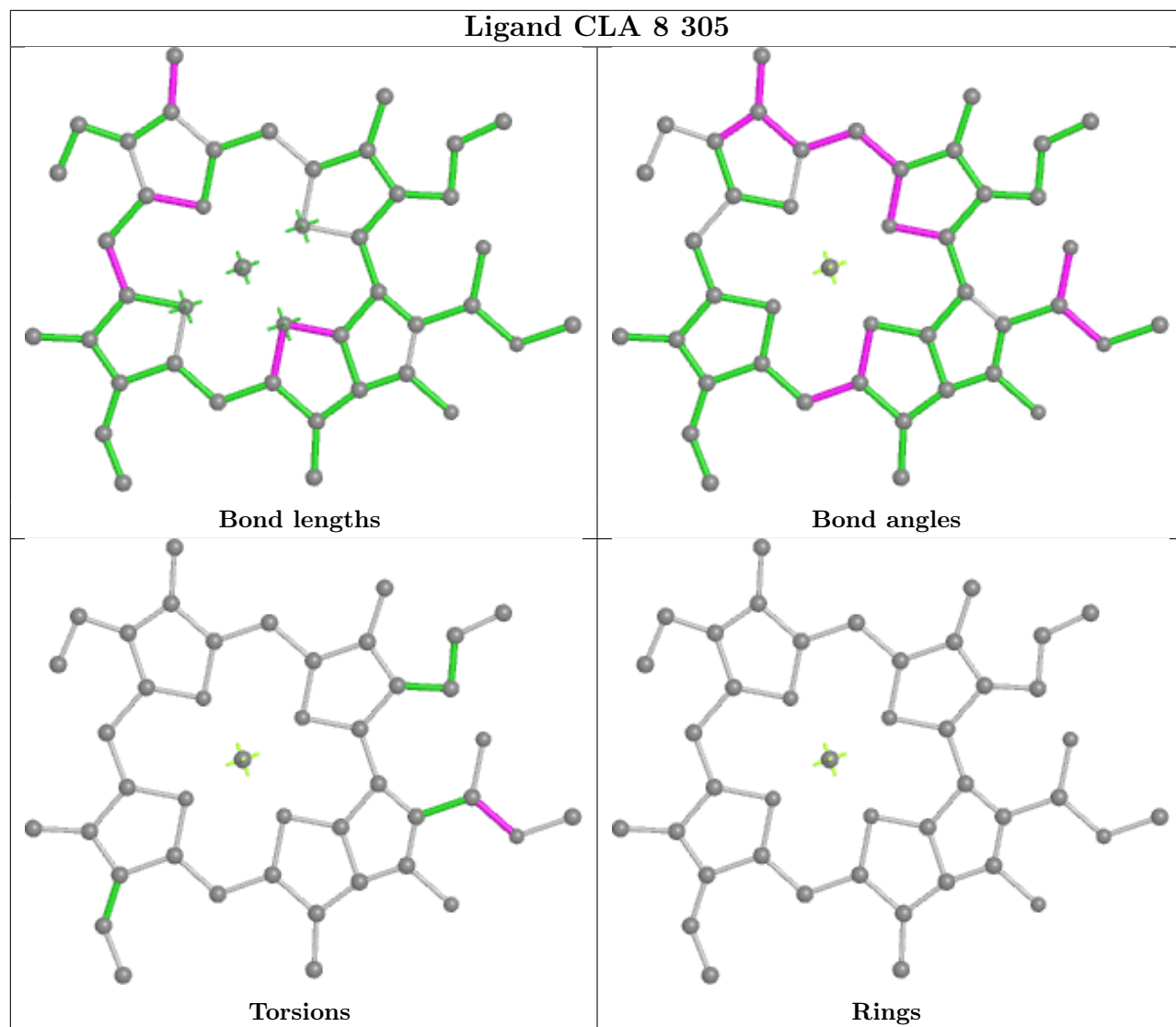
Torsions



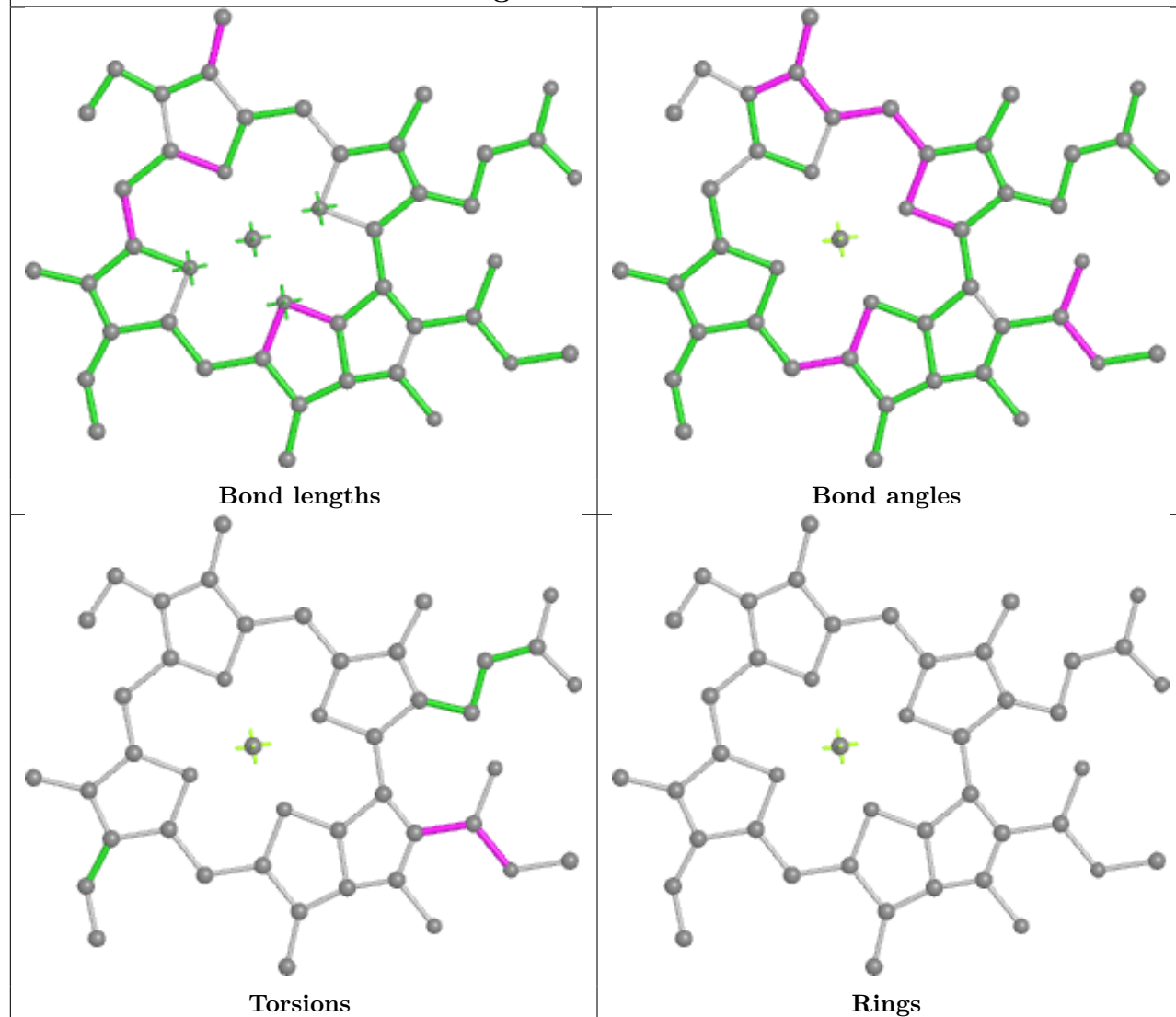
Rings



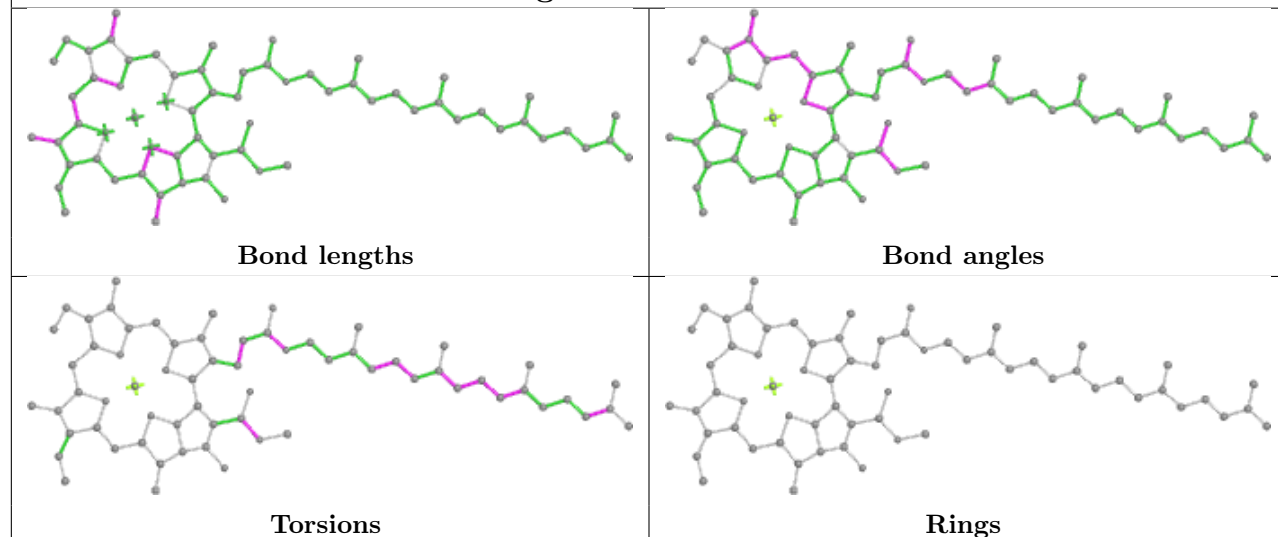
Ligand CLA 8 305



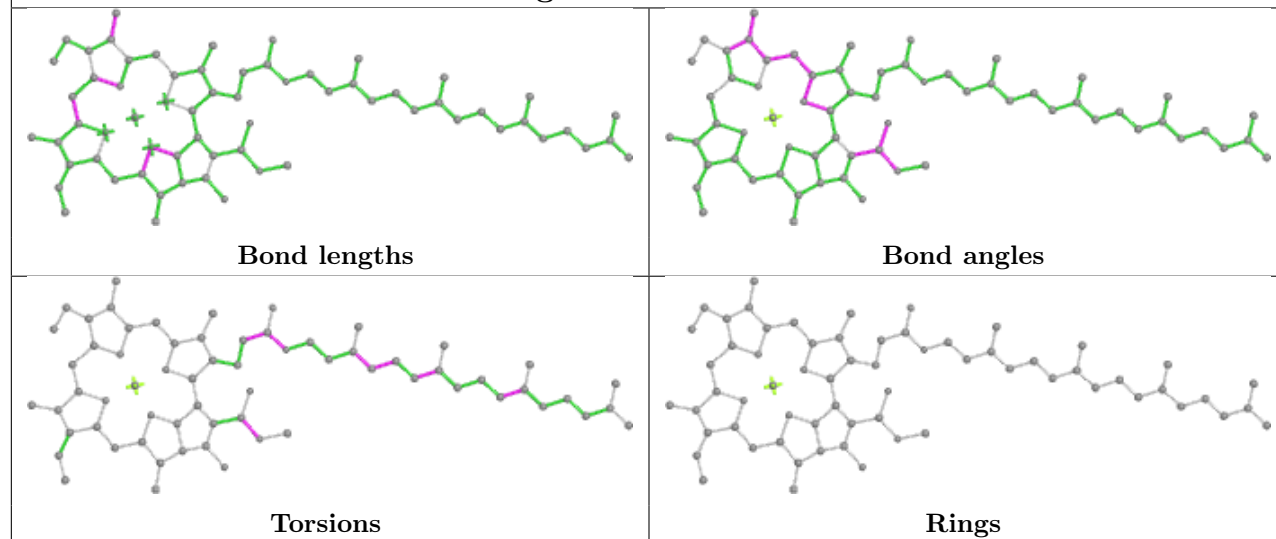
Ligand CLA a 837



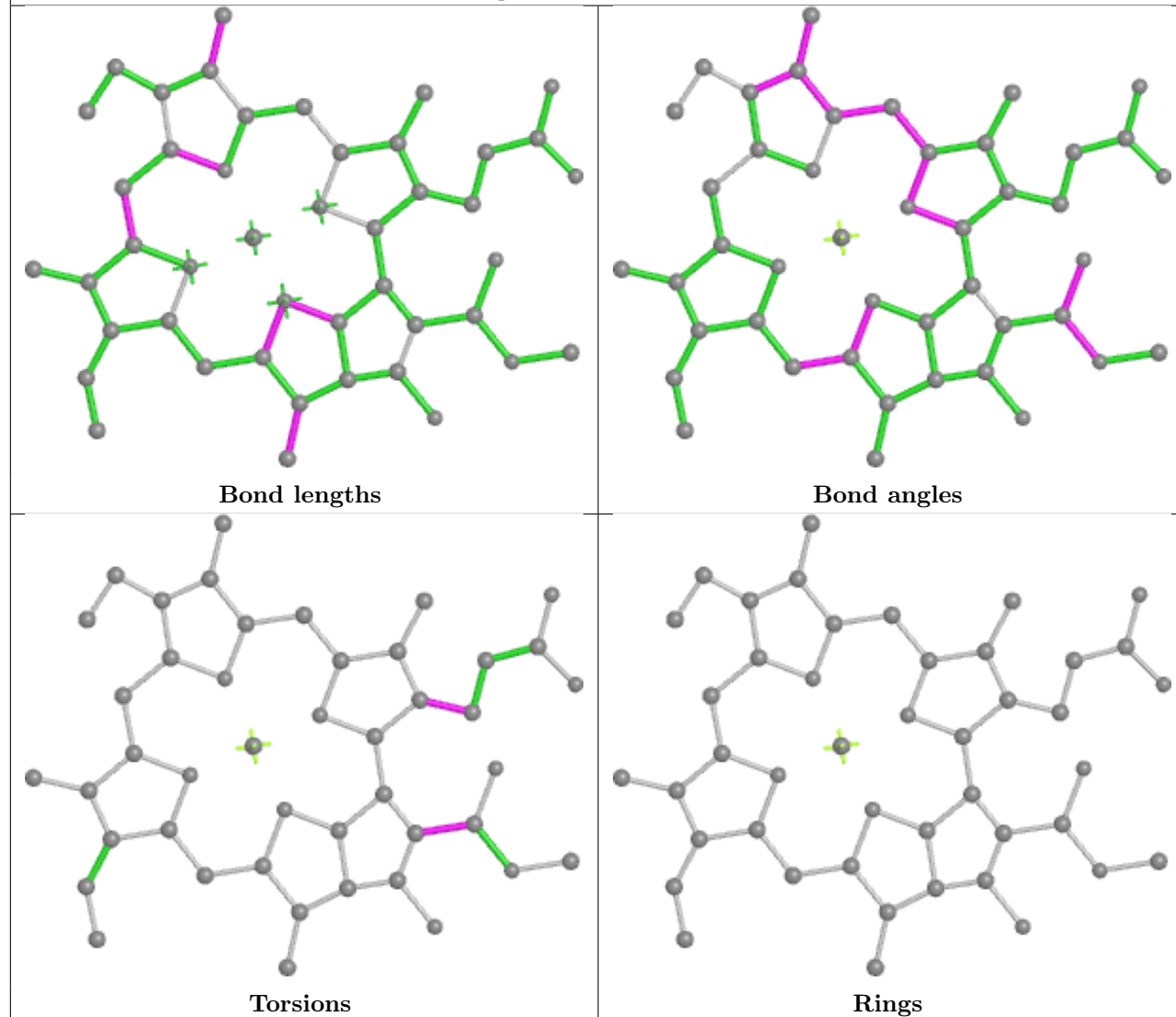
Ligand CLA 9 308



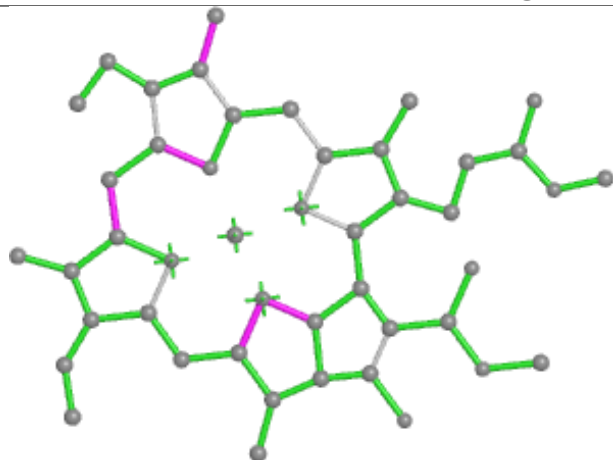
Ligand CLA a 835



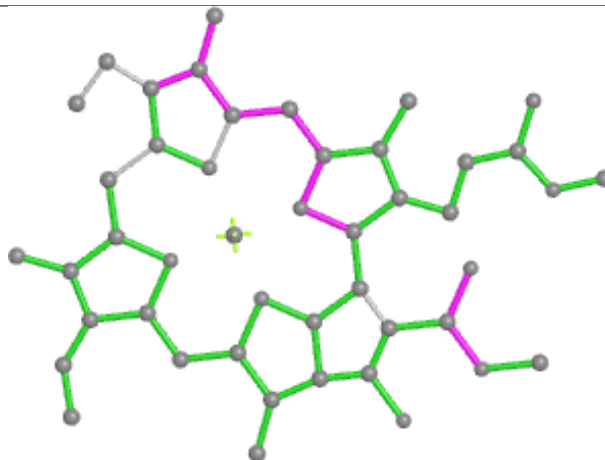
Ligand CLA b 815



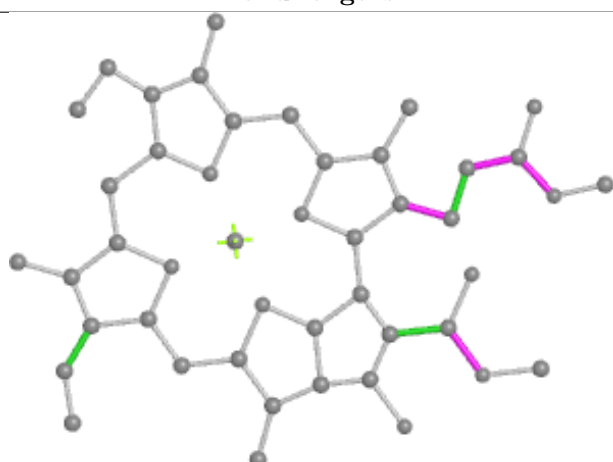
Ligand CLA 6 316



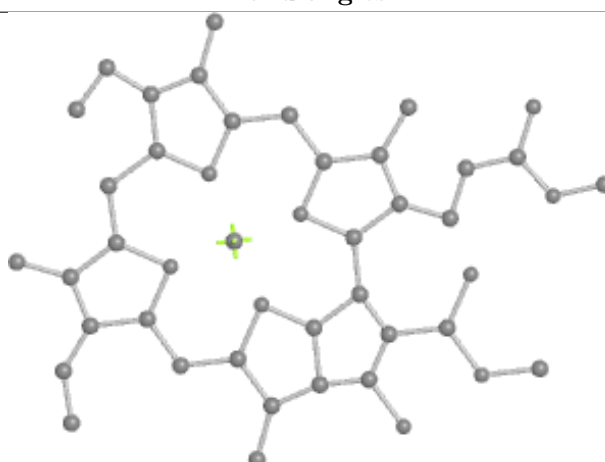
Bond lengths



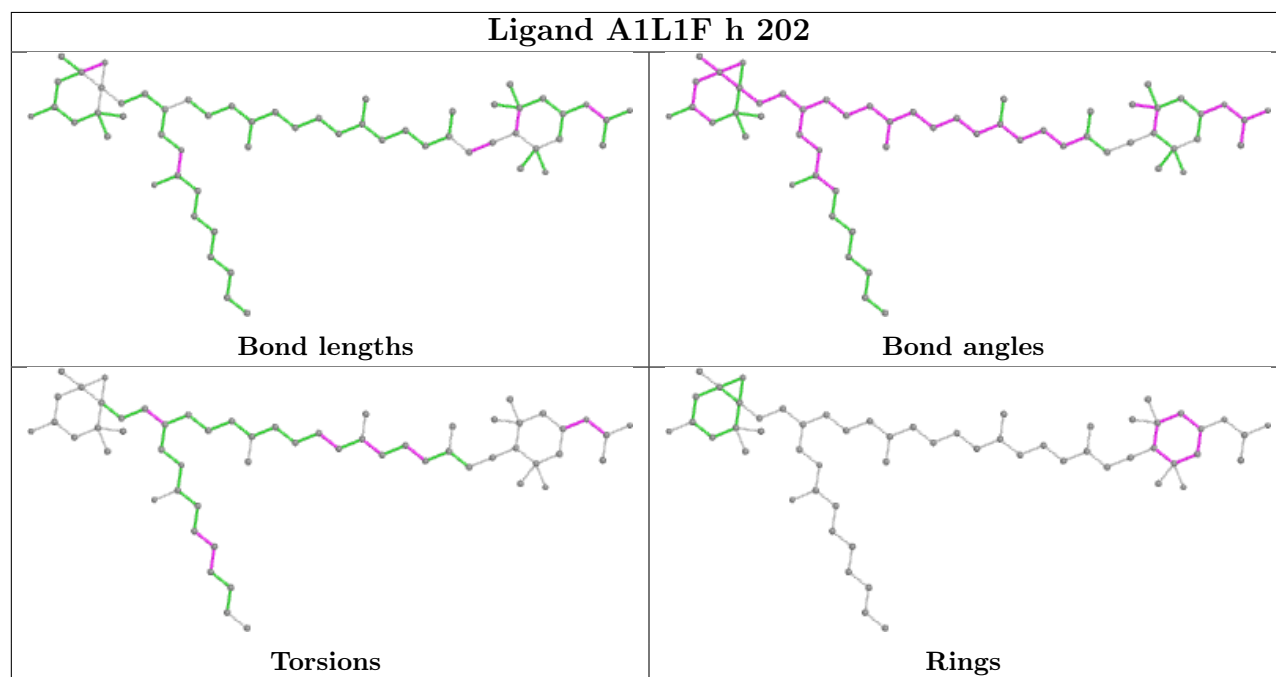
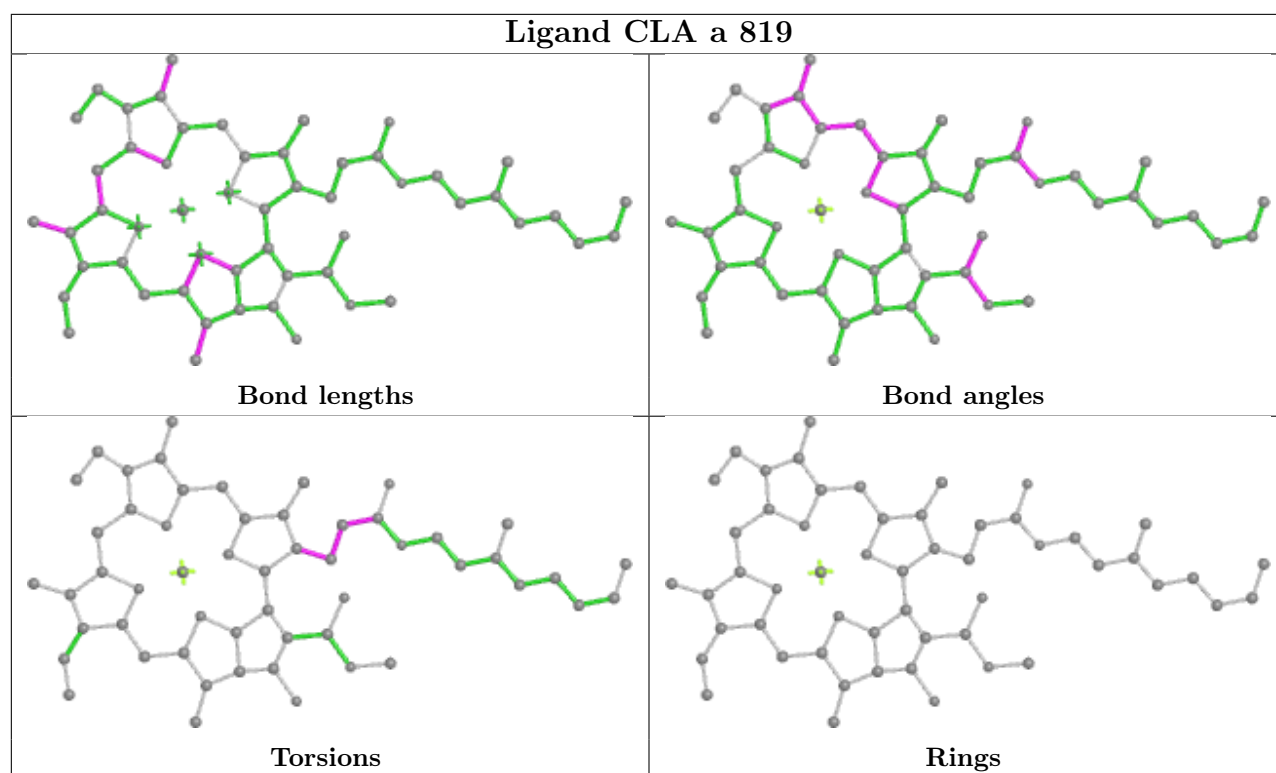
Bond angles



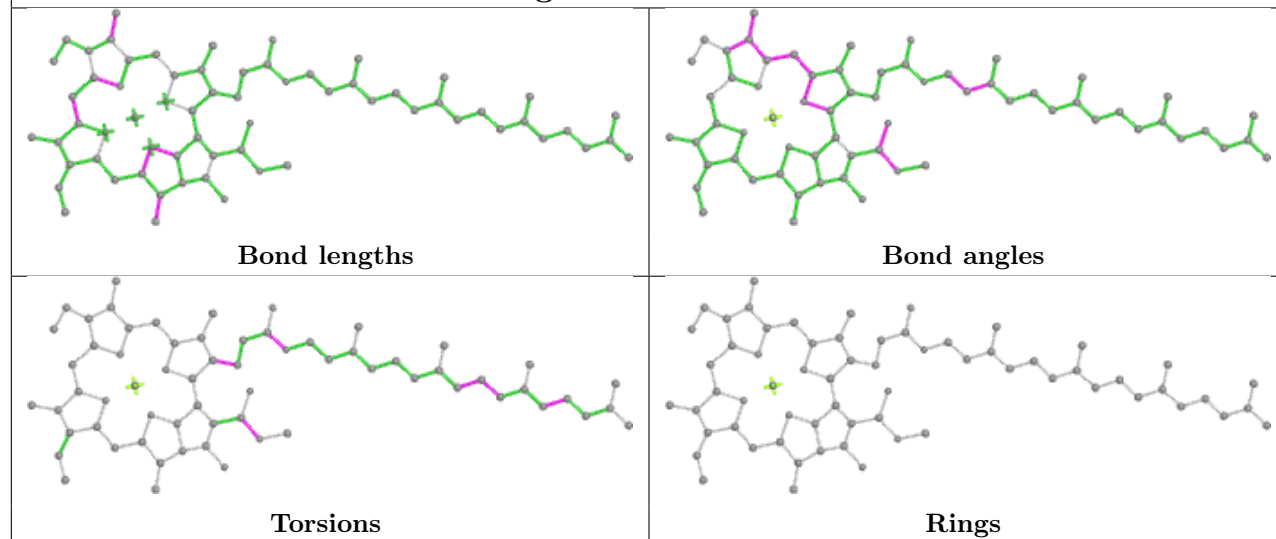
Torsions



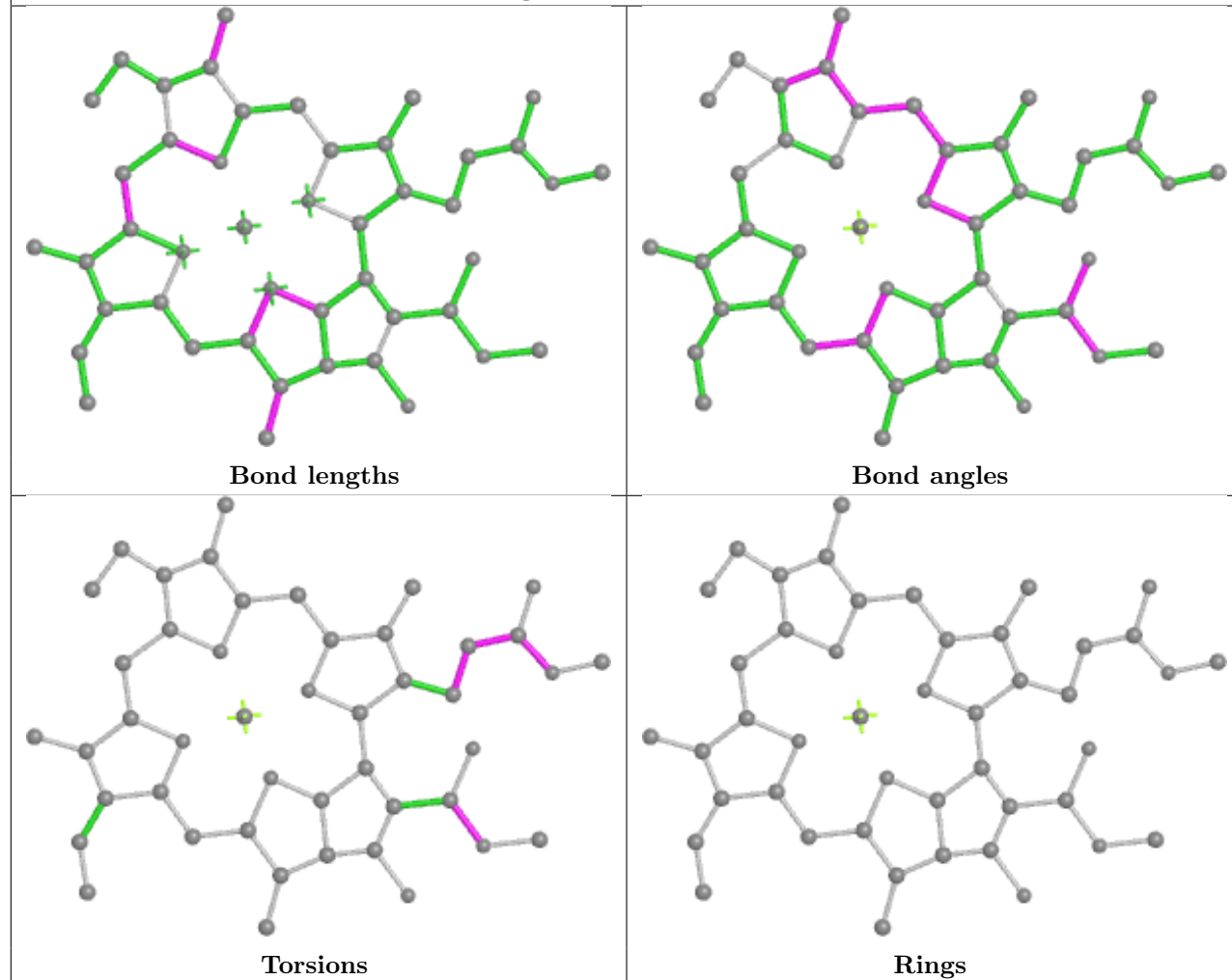
Rings



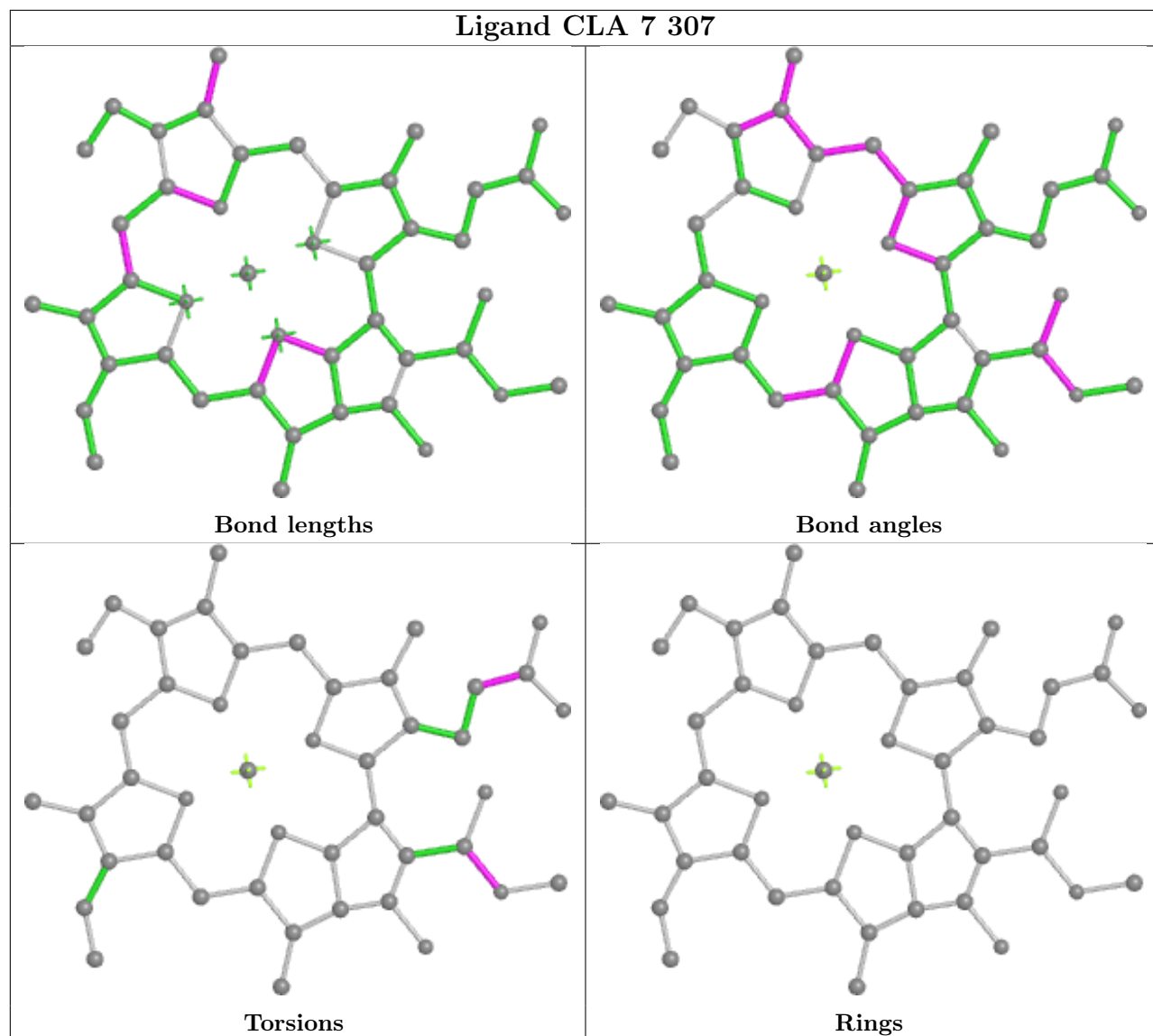
Ligand CLA h 201



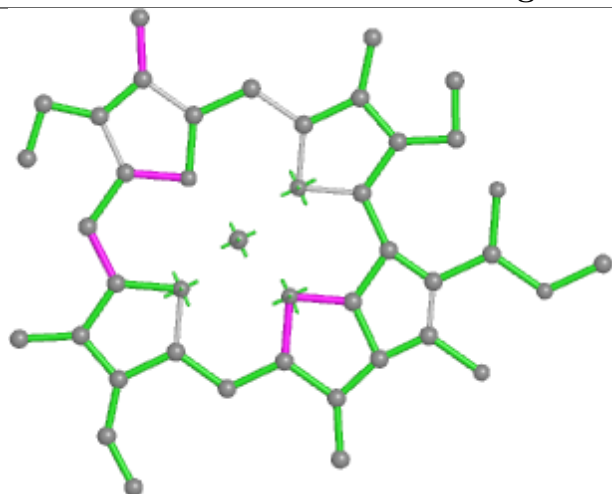
Ligand CLA 5 311



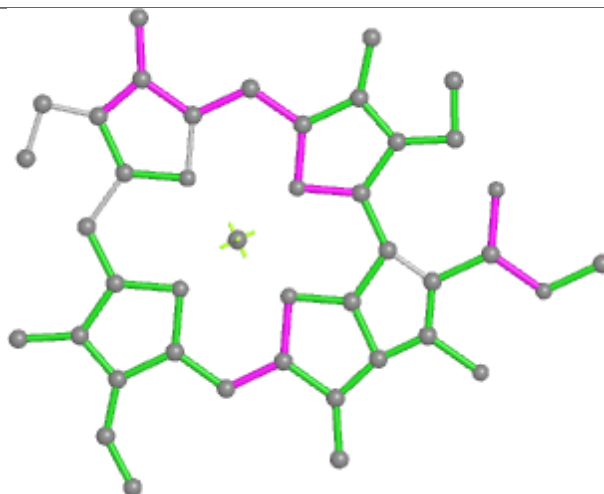
Ligand CLA 7 307



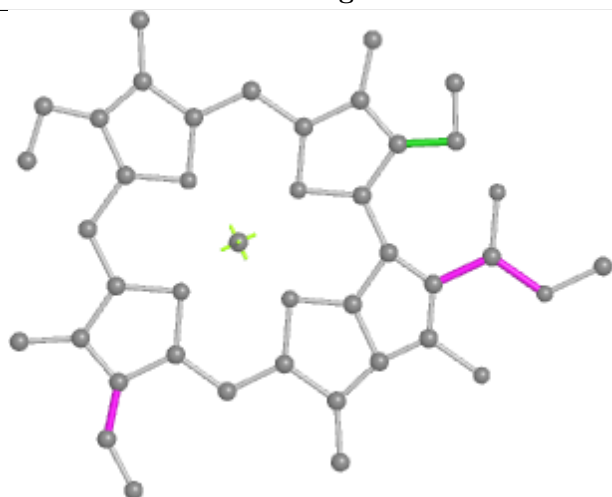
Ligand CLA 9 315



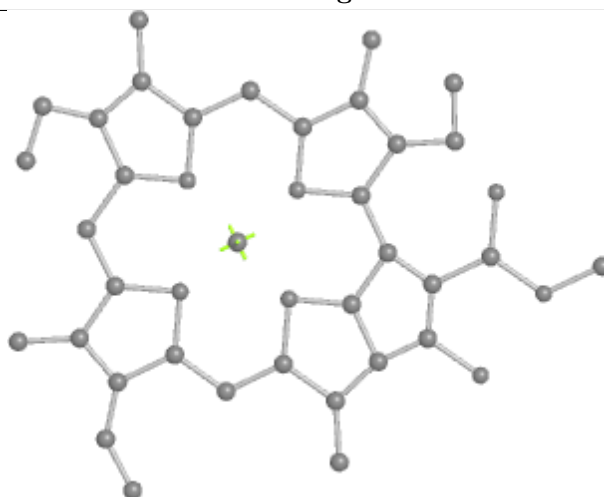
Bond lengths



Bond angles

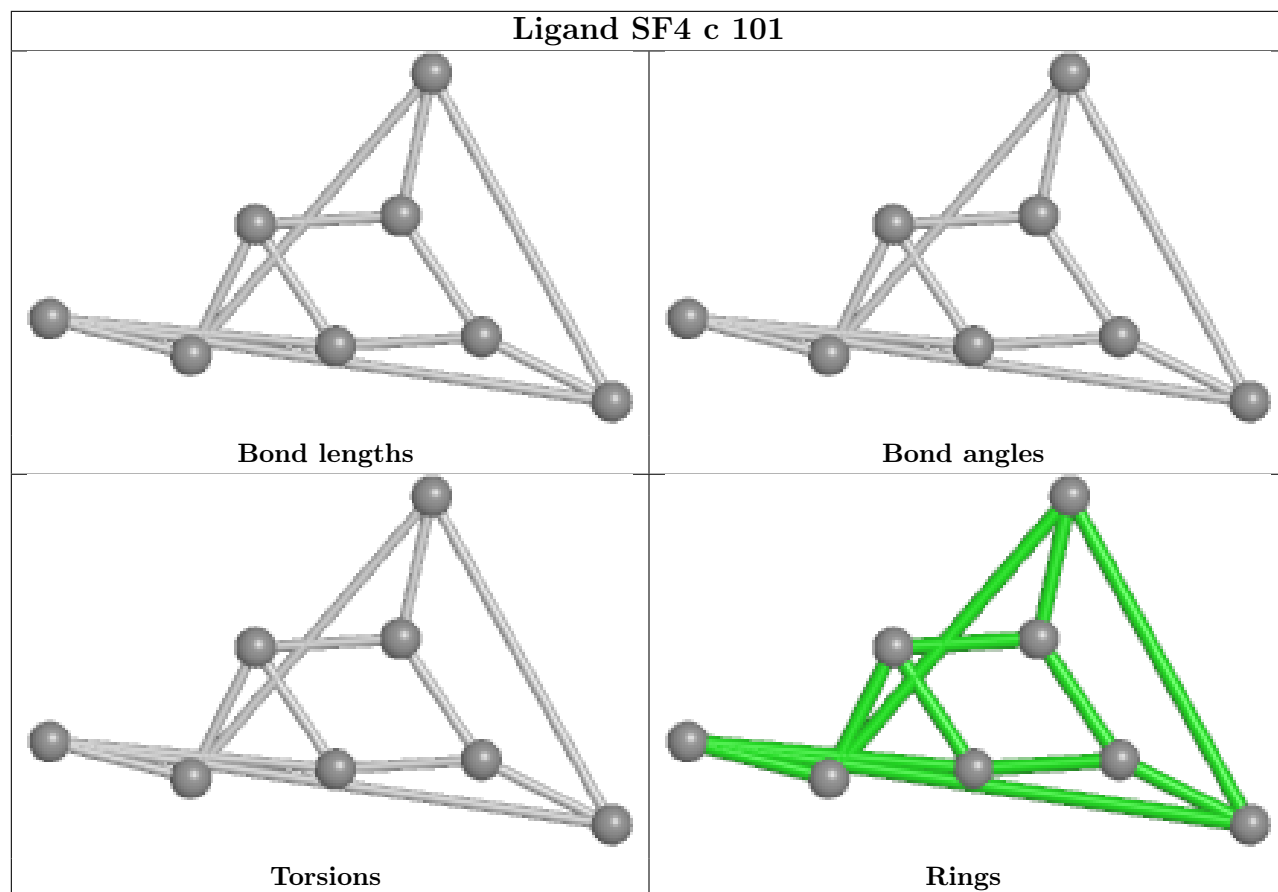


Torsions

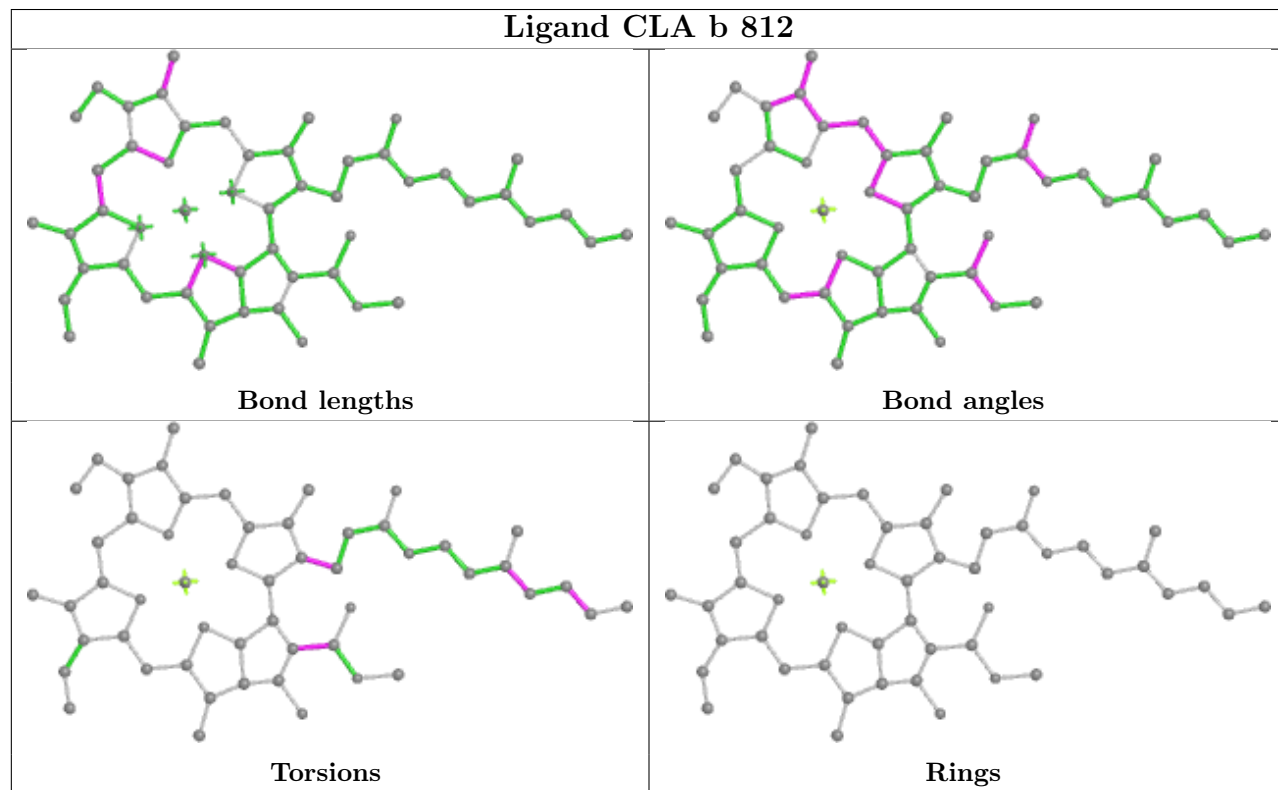


Rings

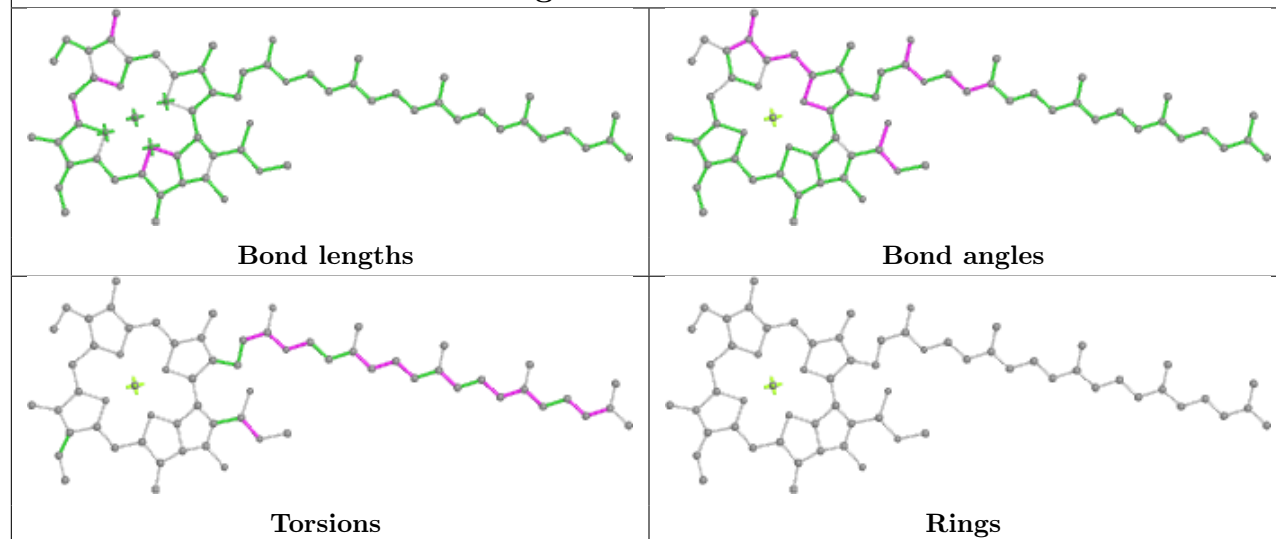
Ligand SF4 c 101



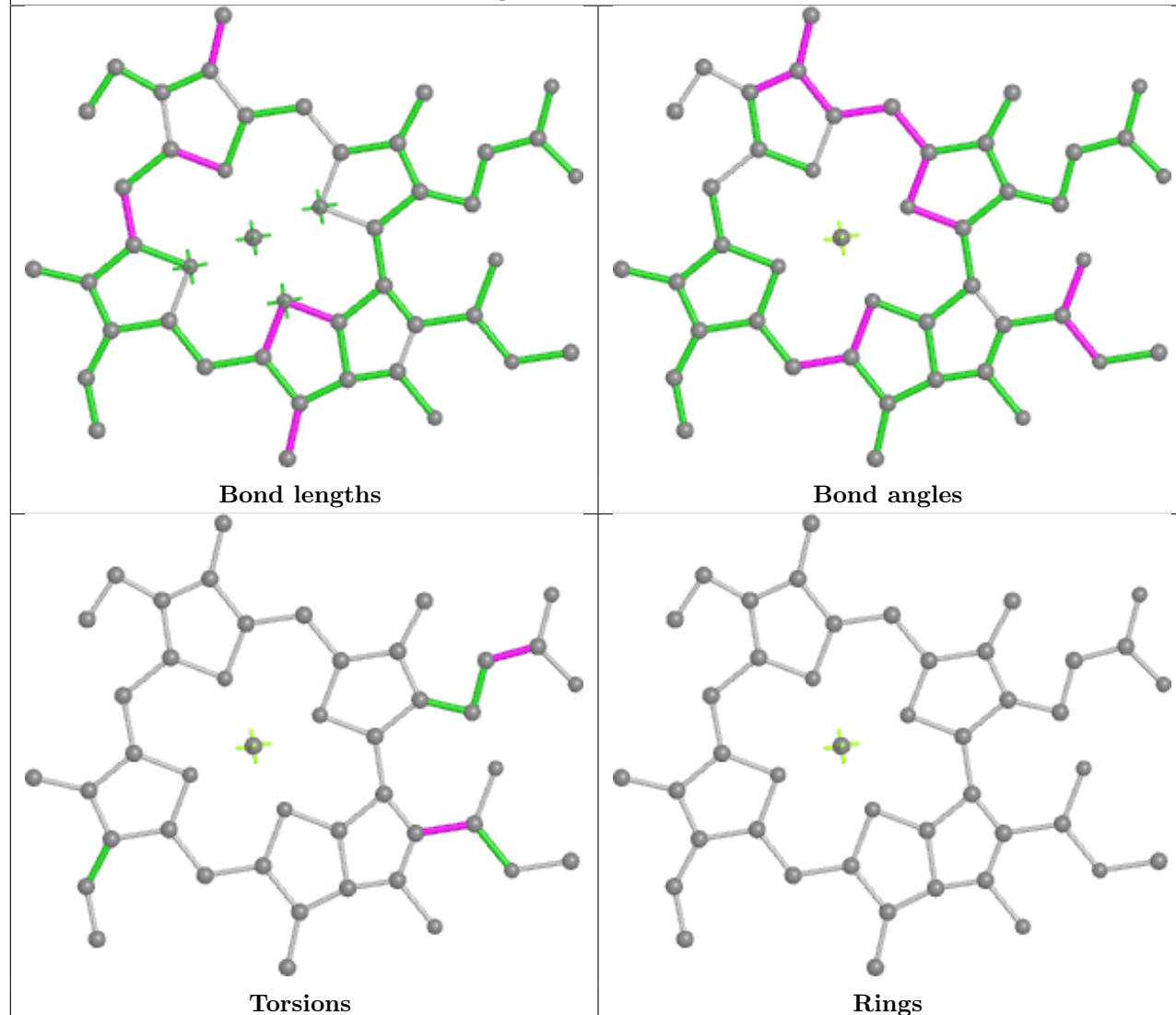
Ligand CLA b 812



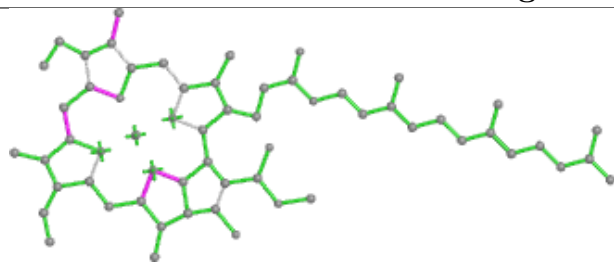
Ligand CLA b 806



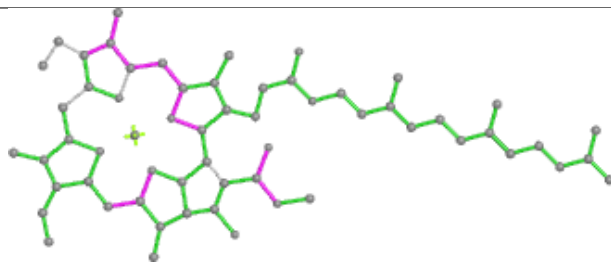
Ligand CLA 4 314



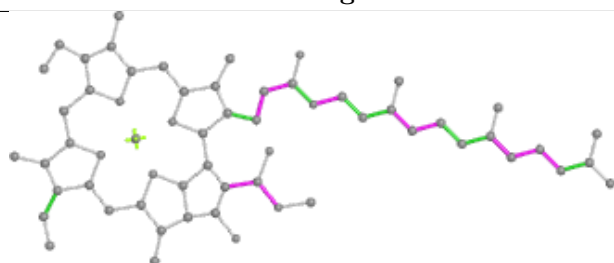
Ligand CLA 7 308



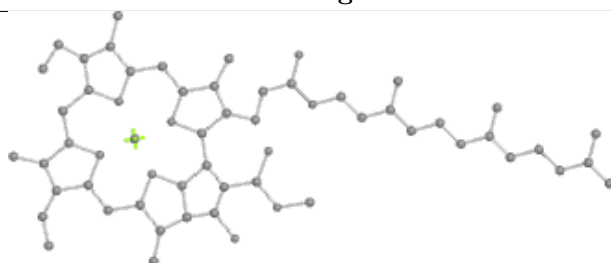
Bond lengths



Bond angles

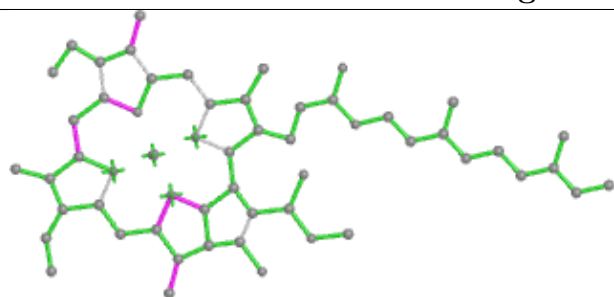


Torsions

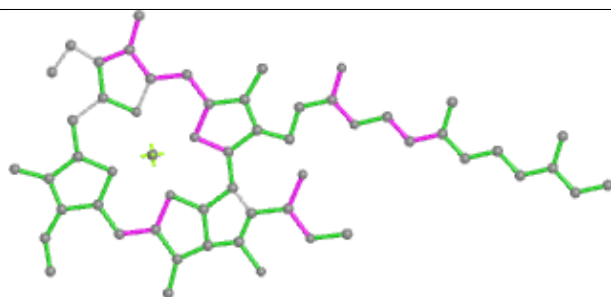


Rings

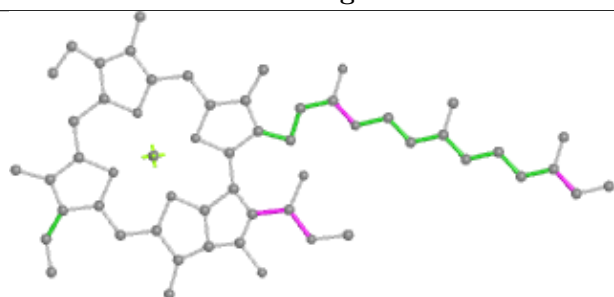
Ligand CLA a 811



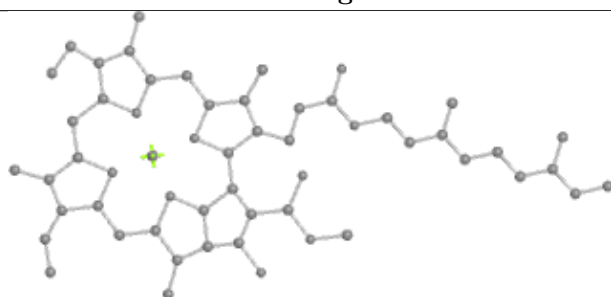
Bond lengths



Bond angles

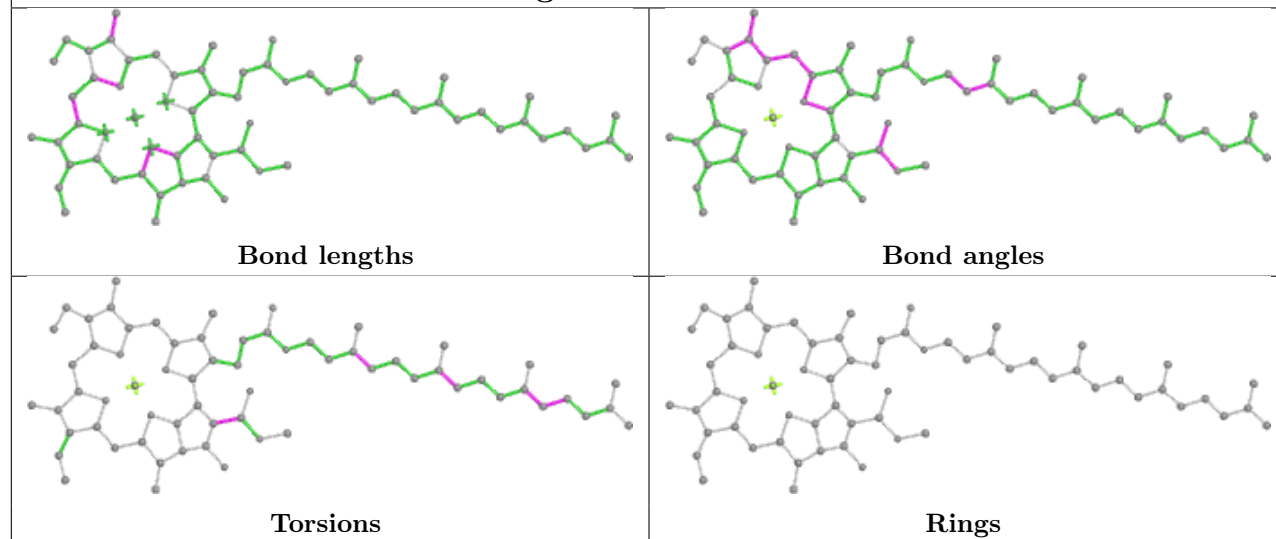


Torsions

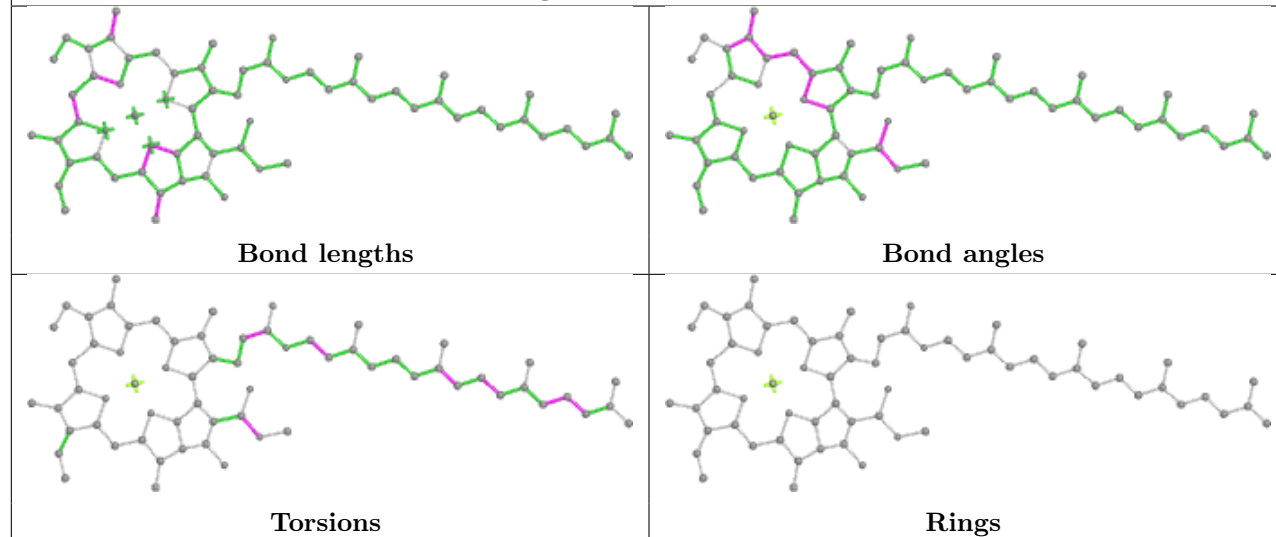


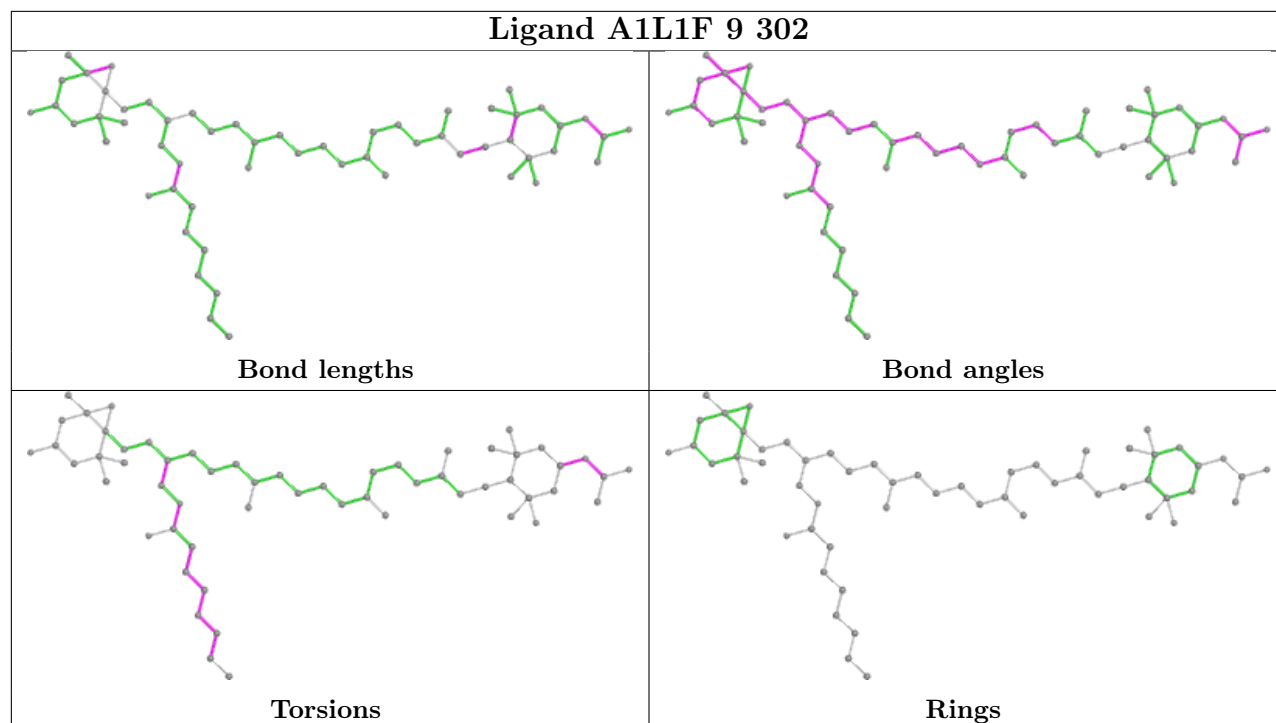
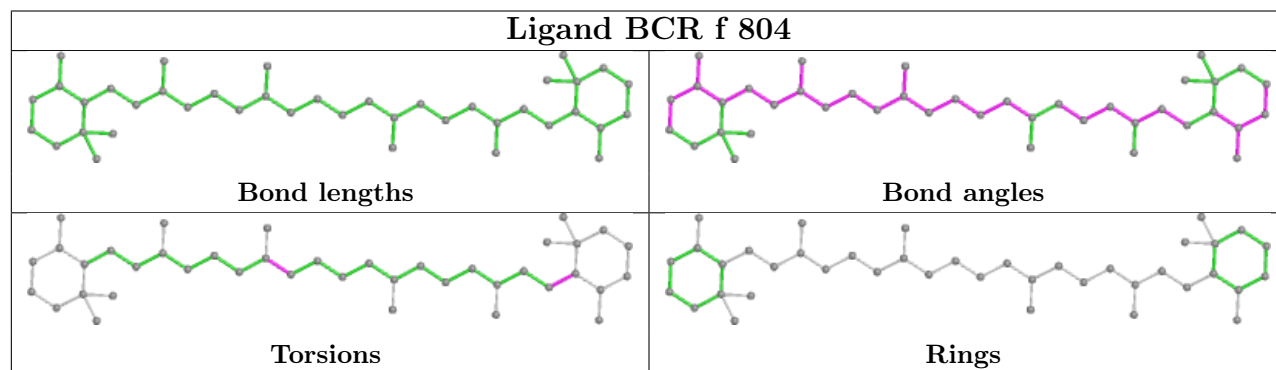
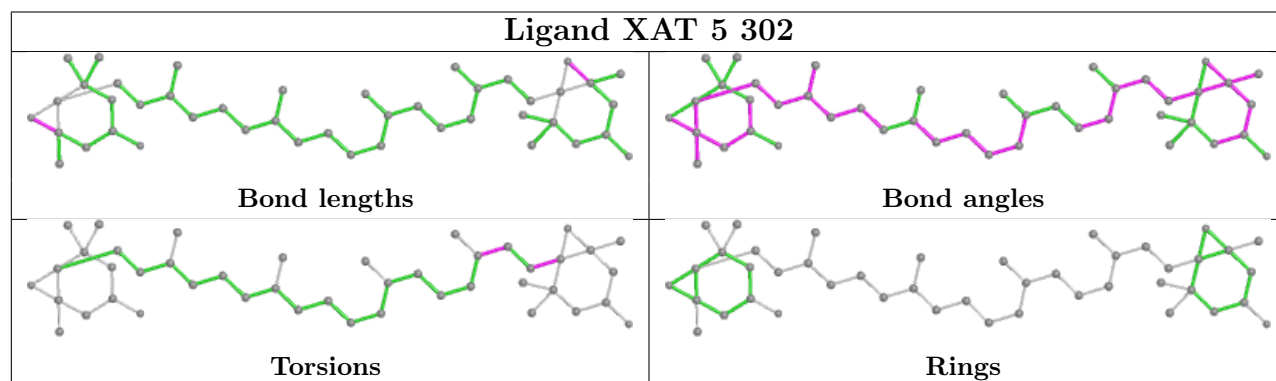
Rings

Ligand CLA a 840

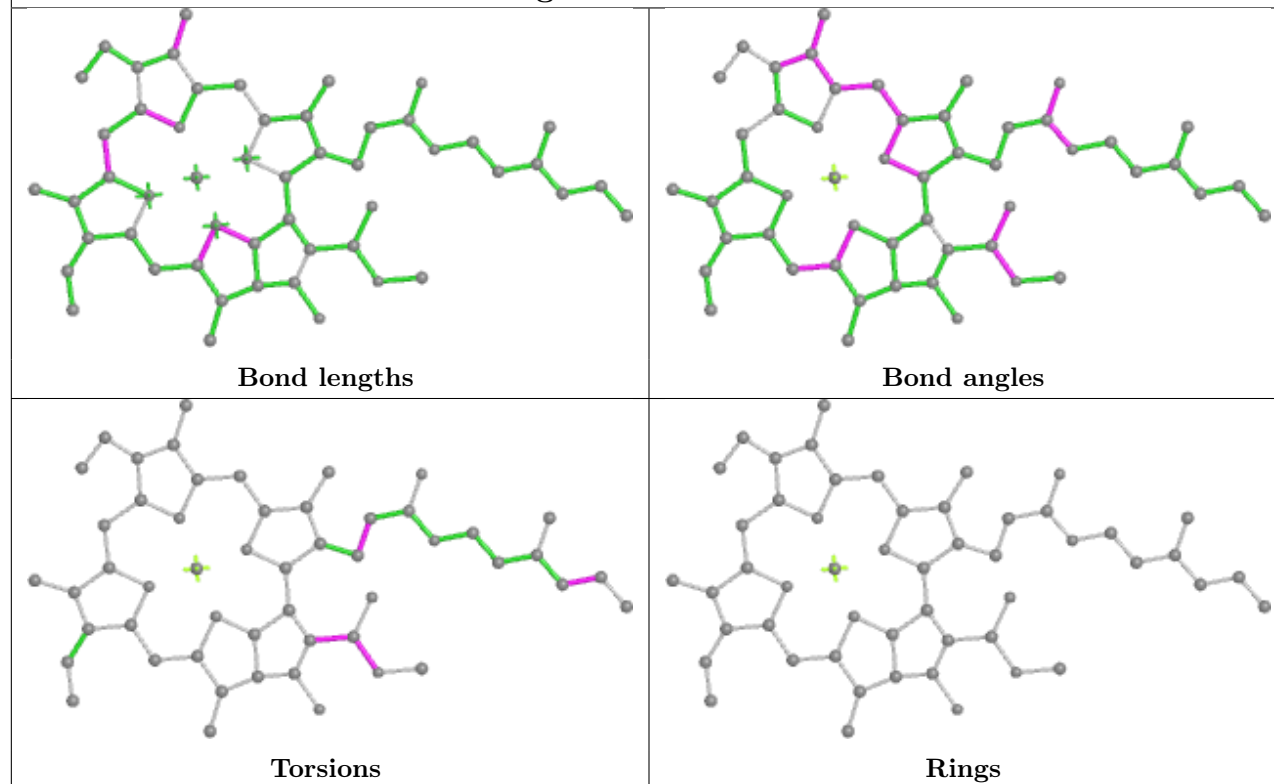


Ligand CLA a 826

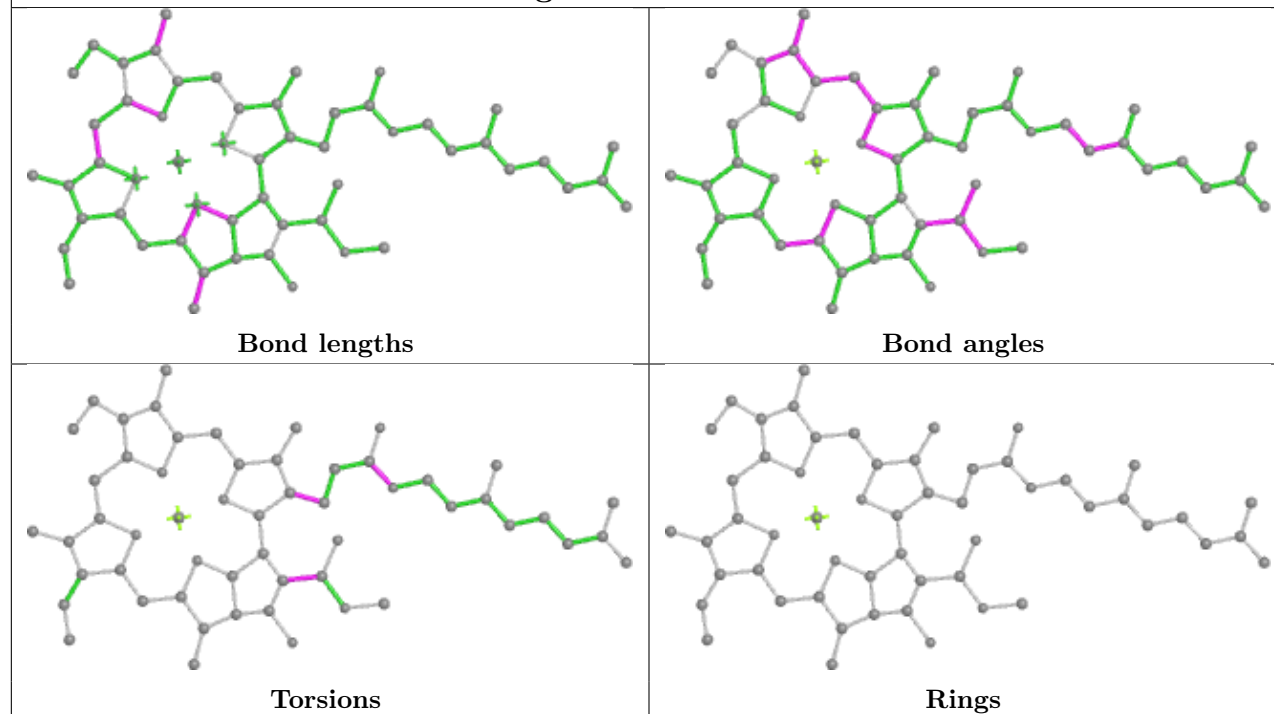


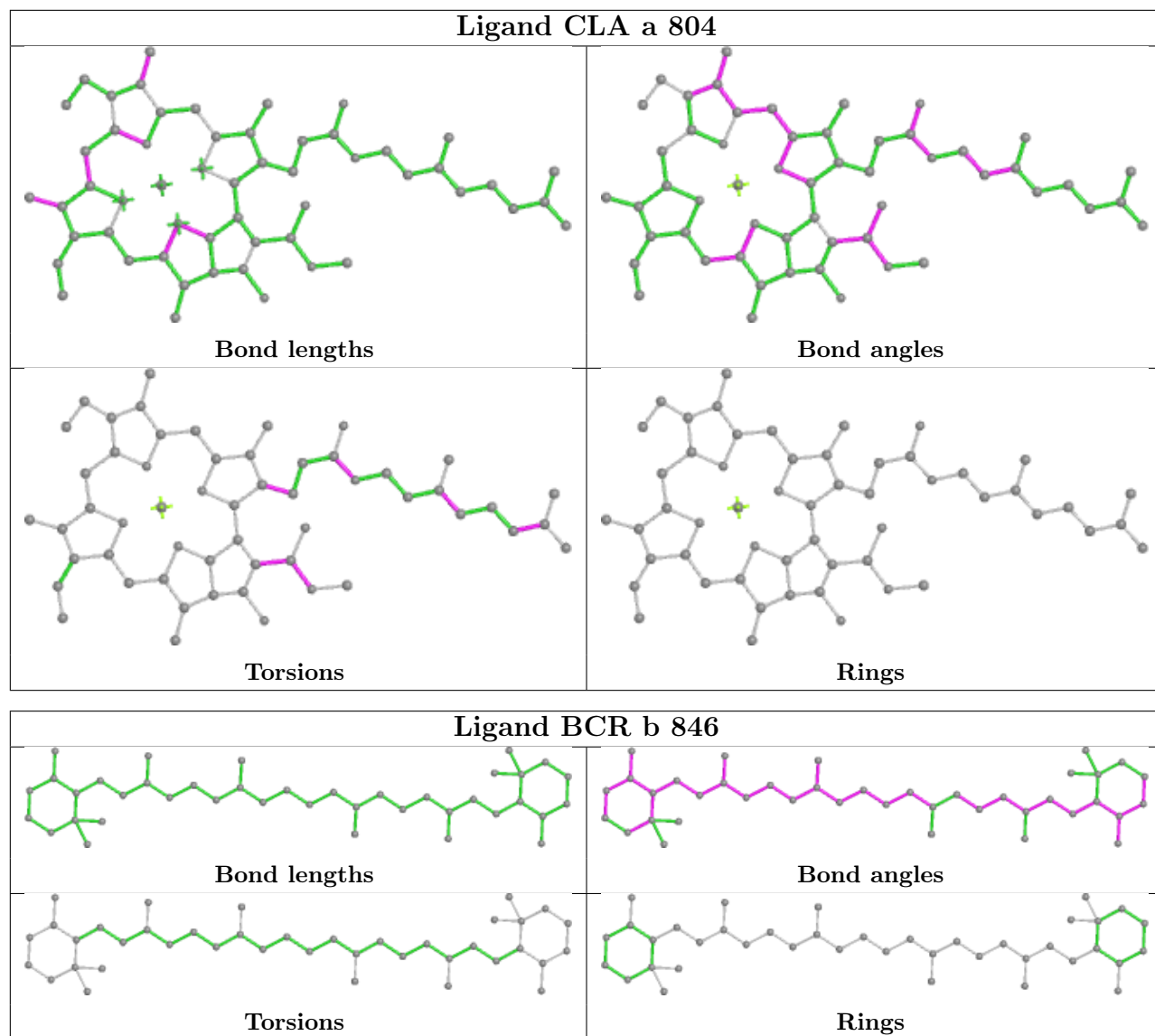
Ligand A1L1F 9 302**Ligand BCR f 804****Ligand XAT 5 302**

Ligand CLA 6 310

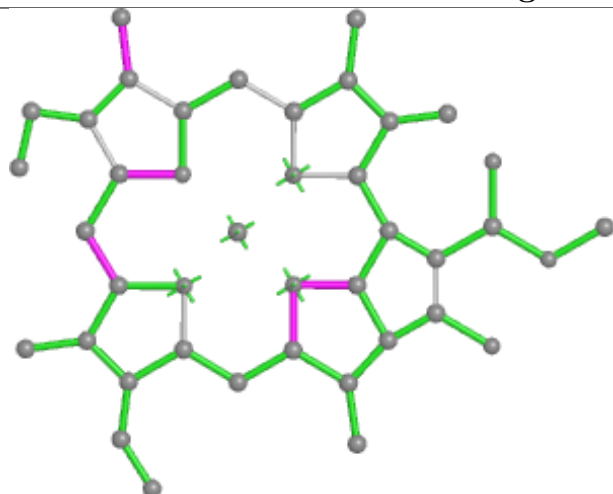


Ligand CLA b 816

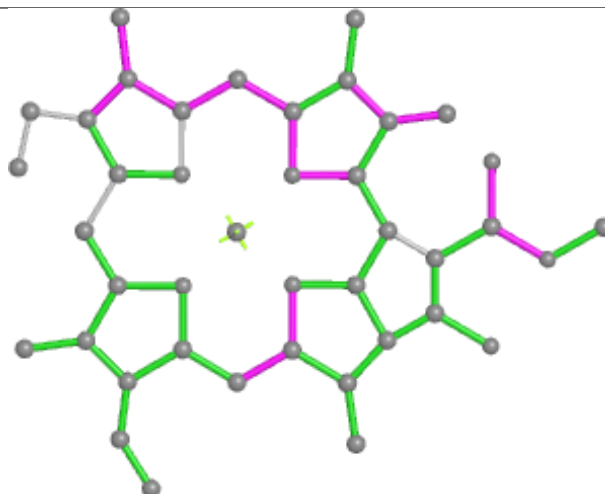




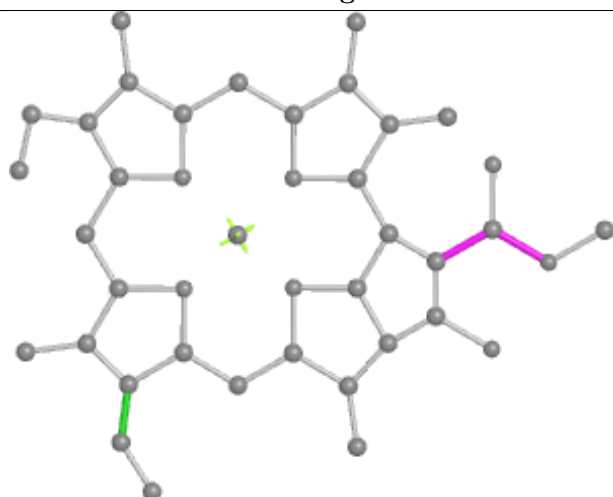
Ligand CLA 7 315



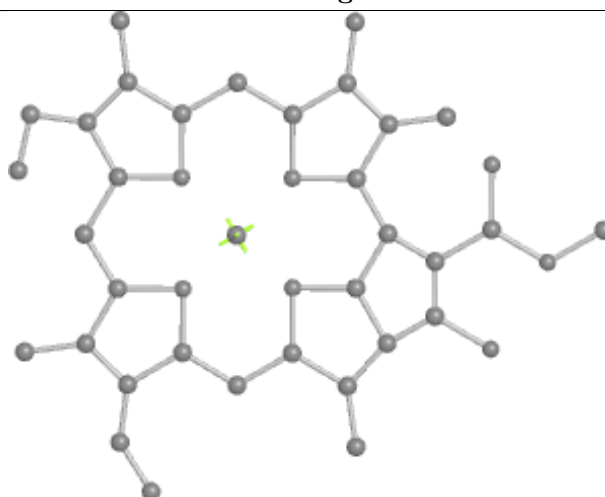
Bond lengths



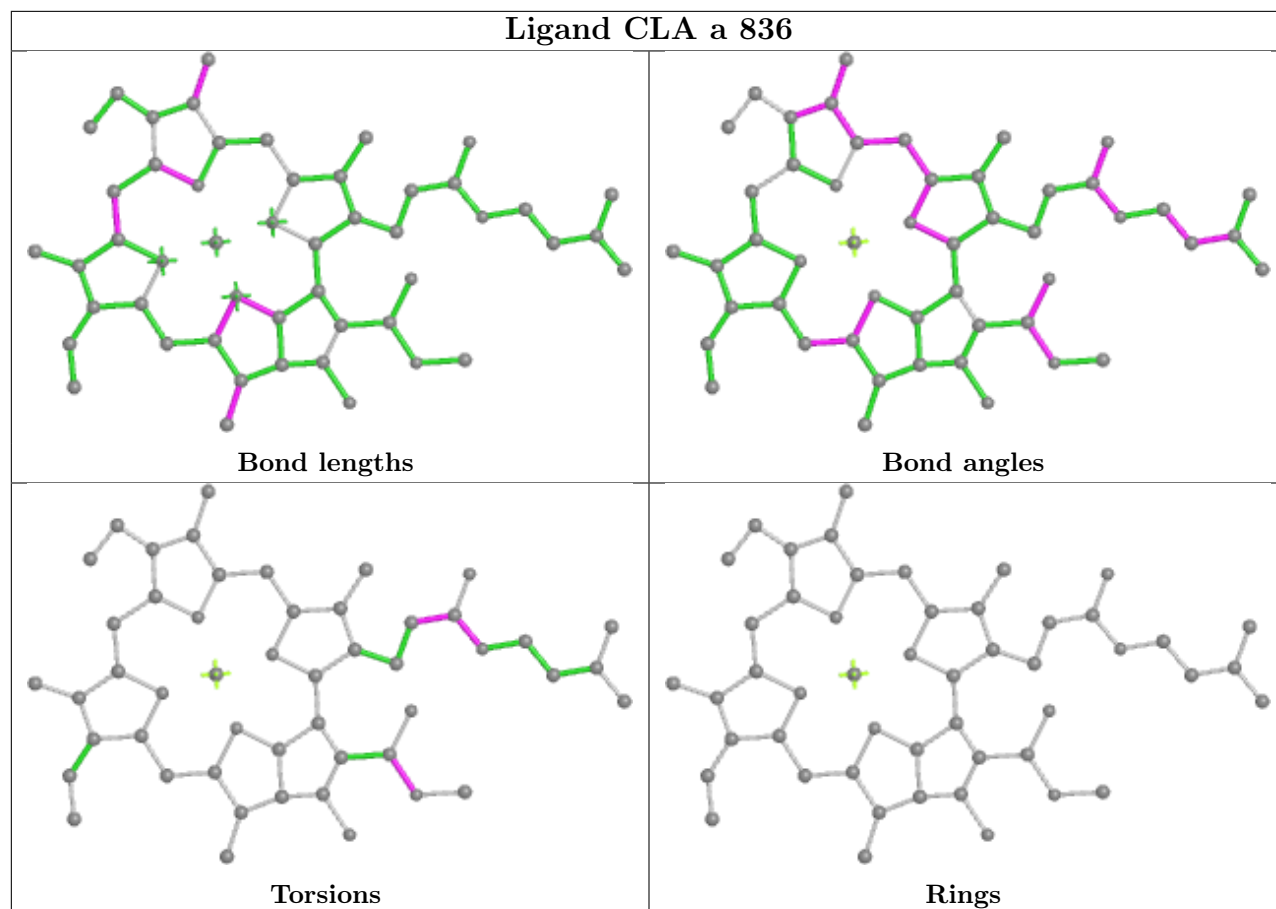
Bond angles



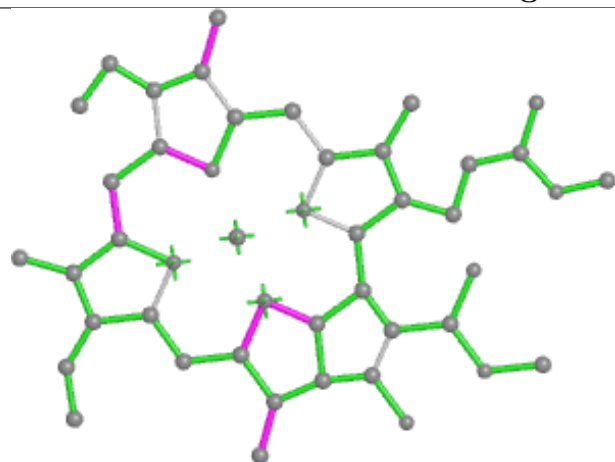
Torsions



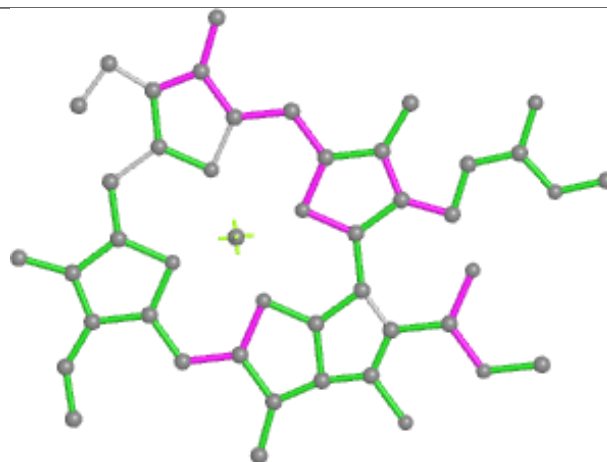
Rings



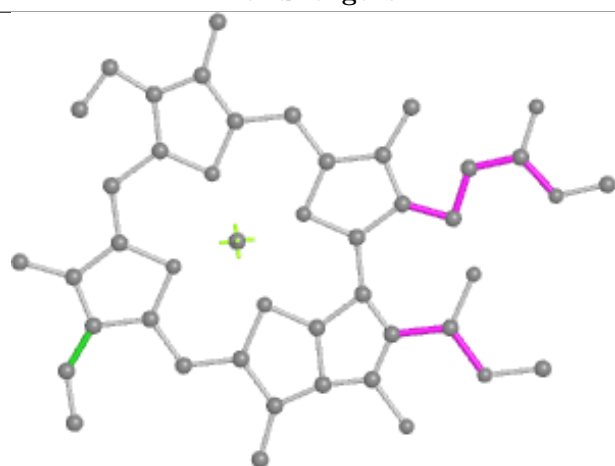
Ligand CLA 9 312



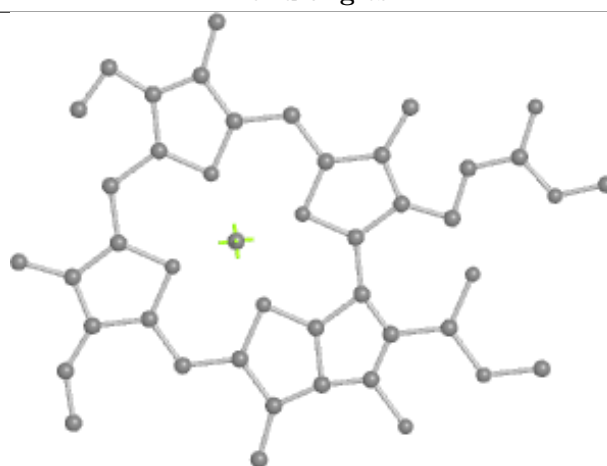
Bond lengths



Bond angles

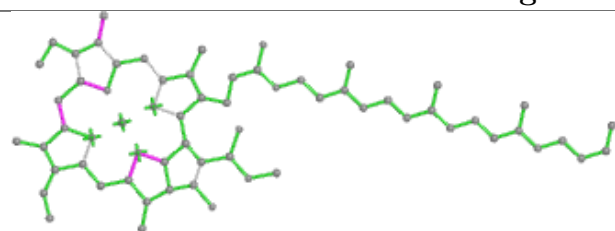


Torsions

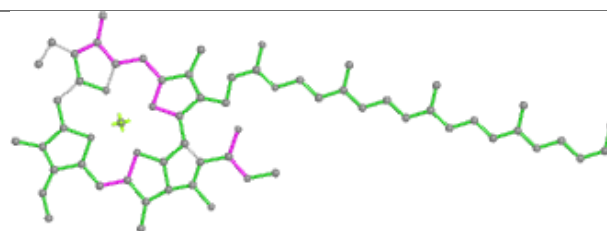


Rings

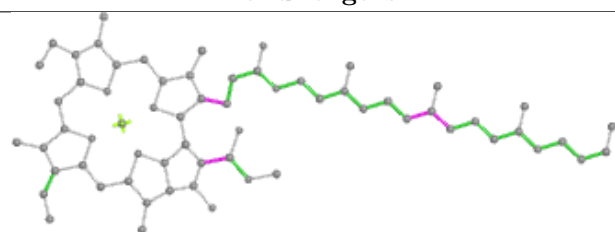
Ligand CLA b 825



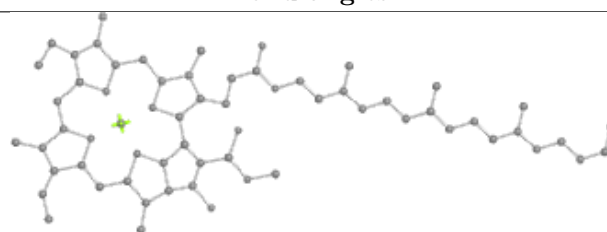
Bond lengths



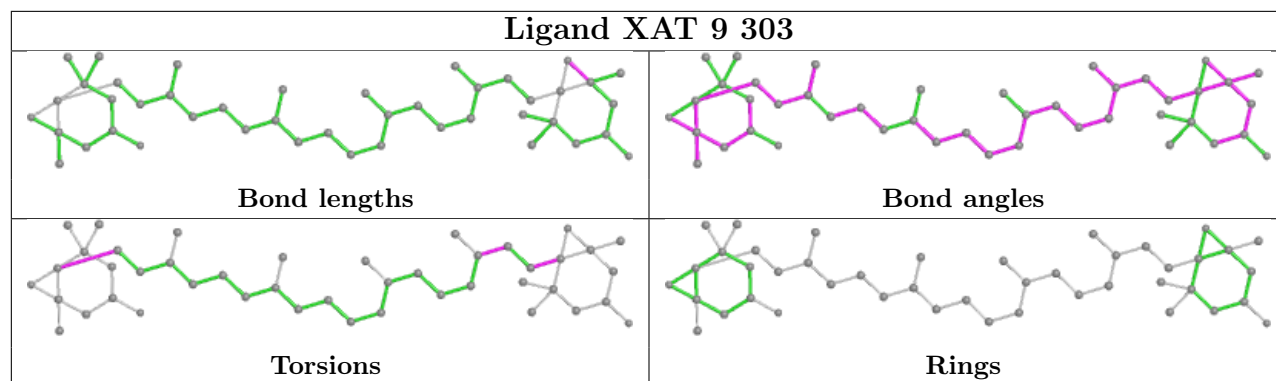
Bond angles



Torsions



Rings



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

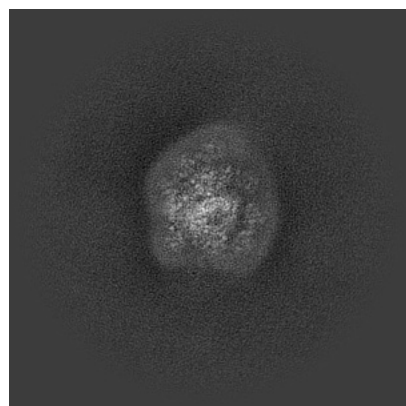
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-60293. These allow visual inspection of the internal detail of the map and identification of artifacts.

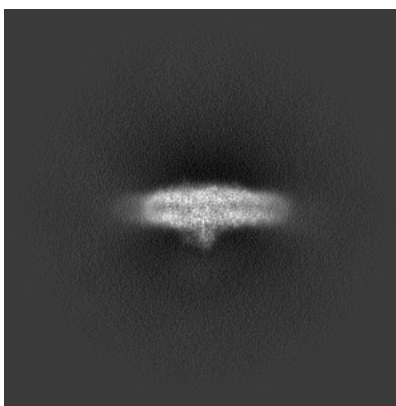
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

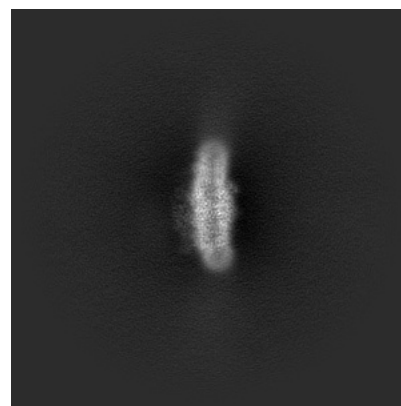
6.1.1 Primary map



X

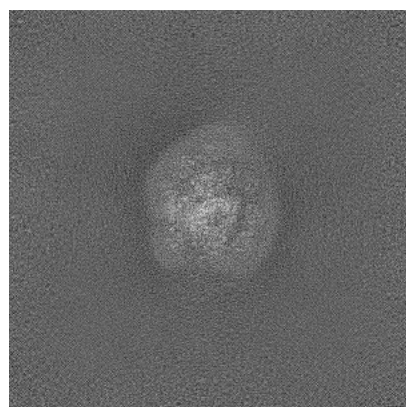


Y

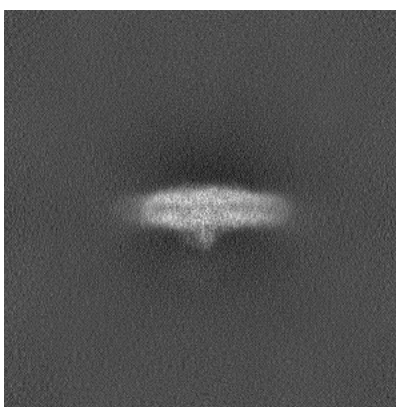


Z

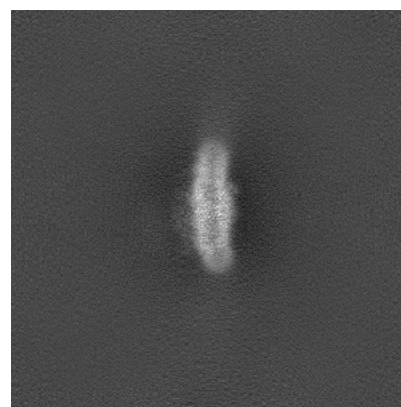
6.1.2 Raw map



X



Y

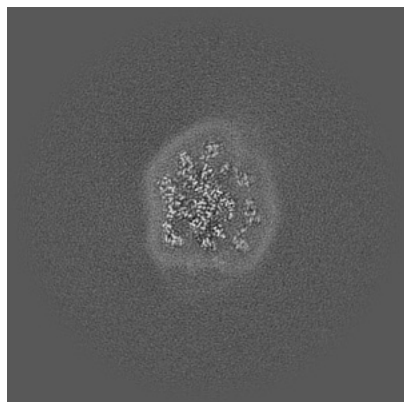


Z

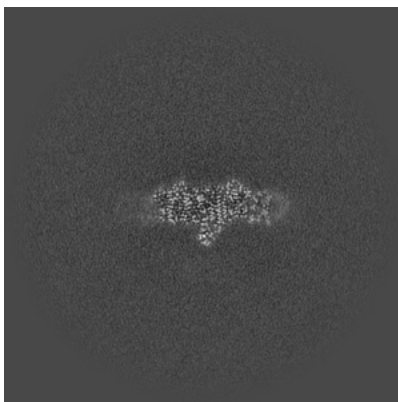
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

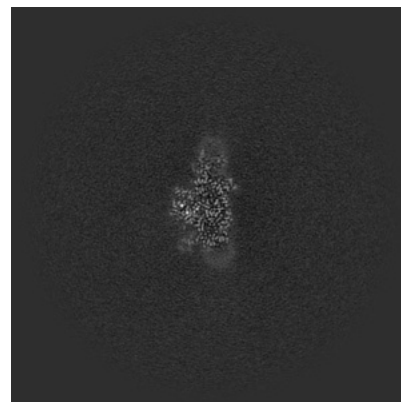
6.2.1 Primary map



X Index: 256

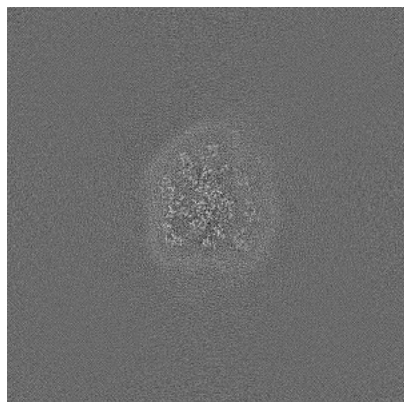


Y Index: 256

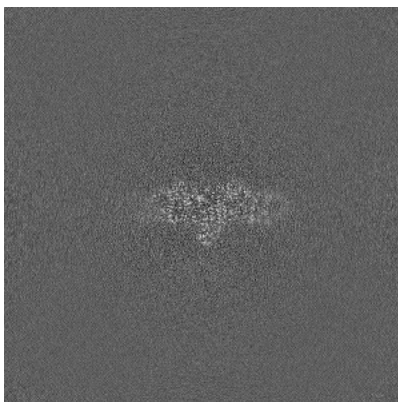


Z Index: 256

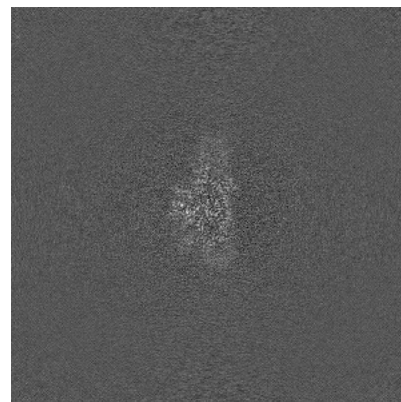
6.2.2 Raw map



X Index: 256



Y Index: 256

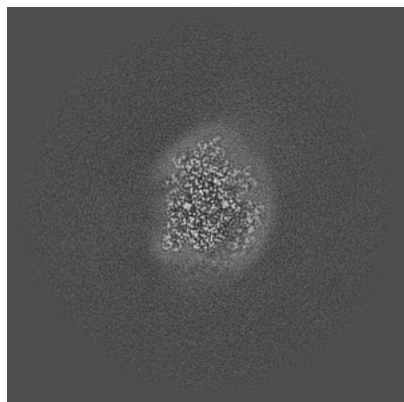


Z Index: 256

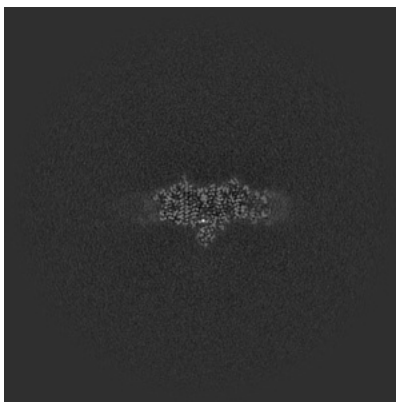
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

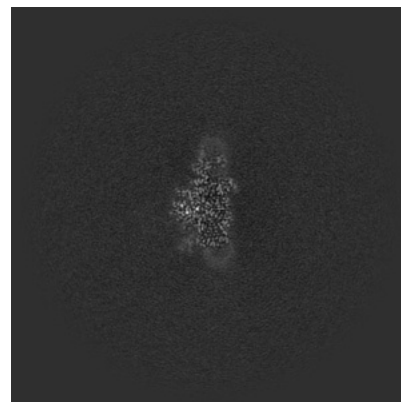
6.3.1 Primary map



X Index: 245

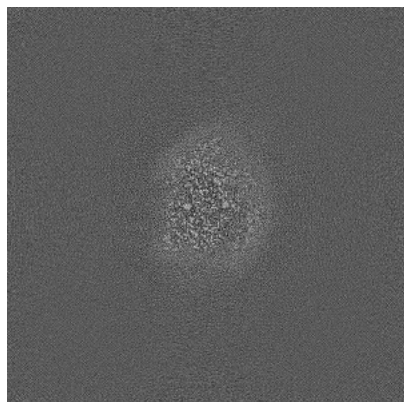


Y Index: 253

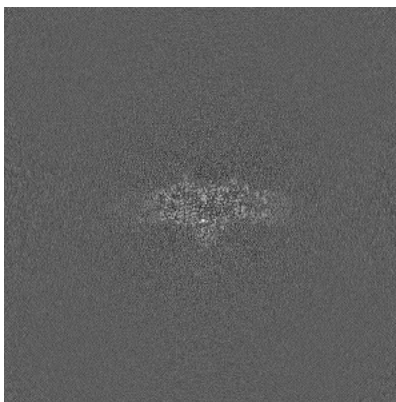


Z Index: 255

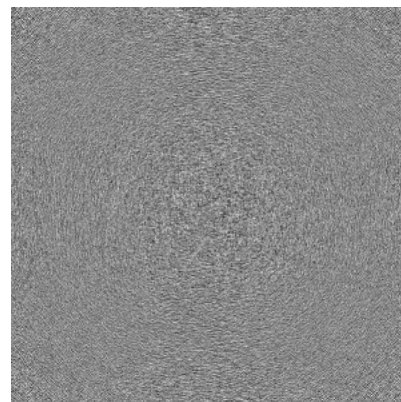
6.3.2 Raw map



X Index: 245



Y Index: 253

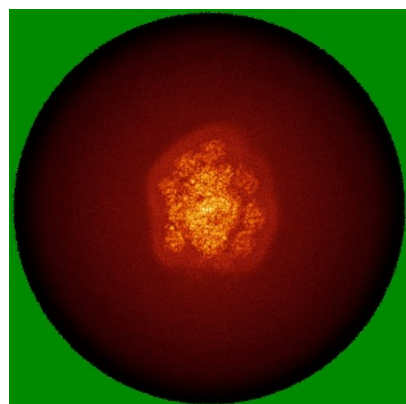


Z Index: 0

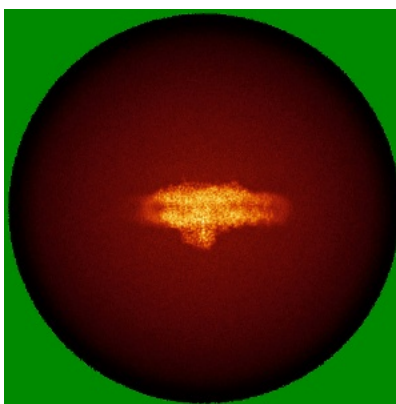
The images above show the largest variance slices of the map in three orthogonal directions.

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

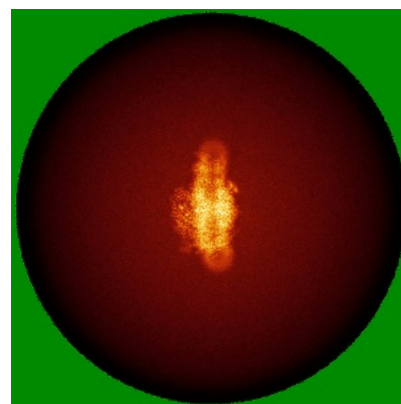
6.4.1 Primary map



X

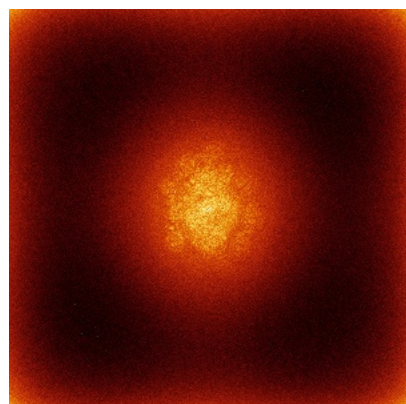


Y

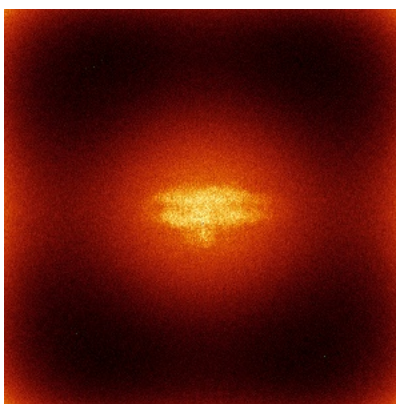


Z

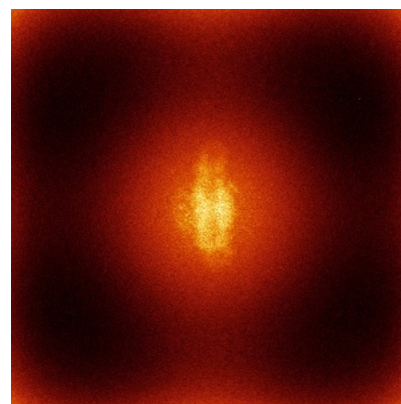
6.4.2 Raw map



X



Y

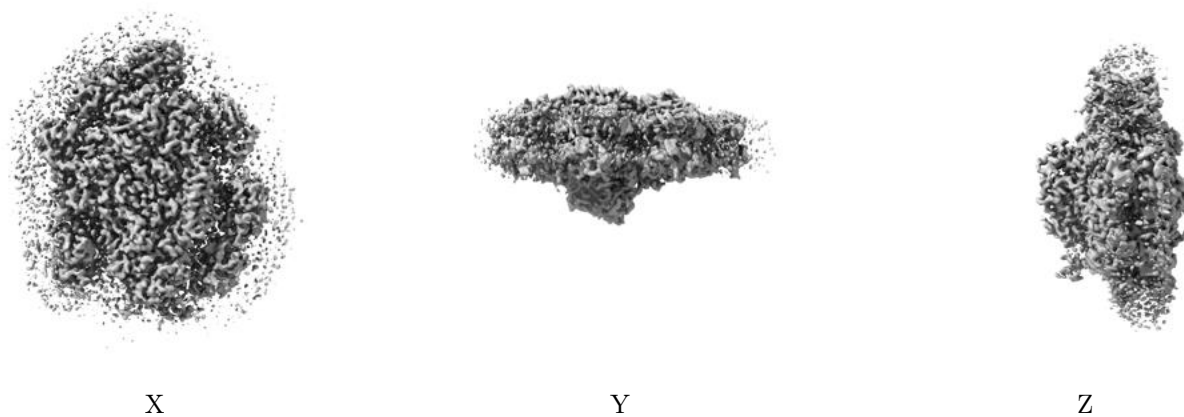


Z

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.

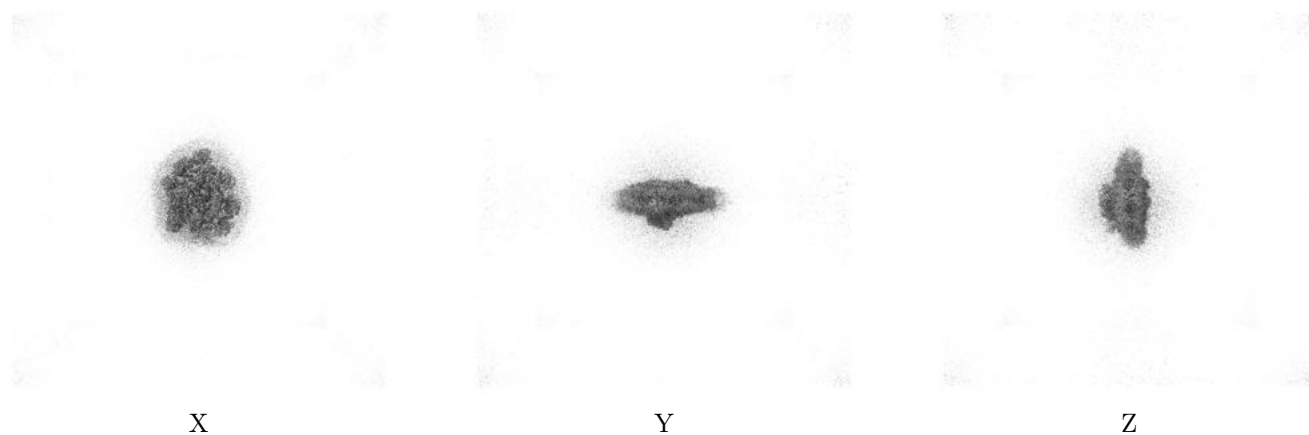
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.2. 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



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

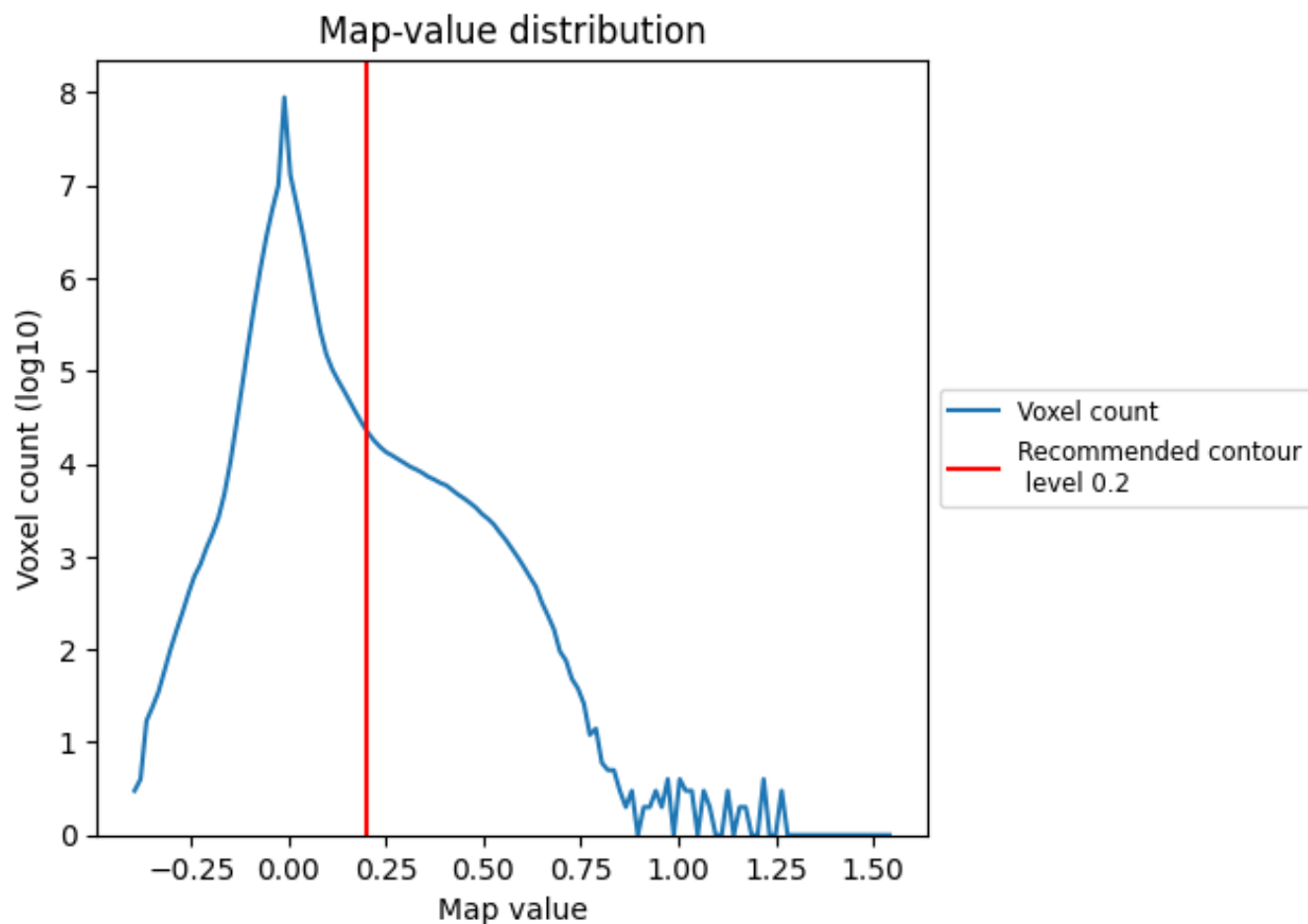
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

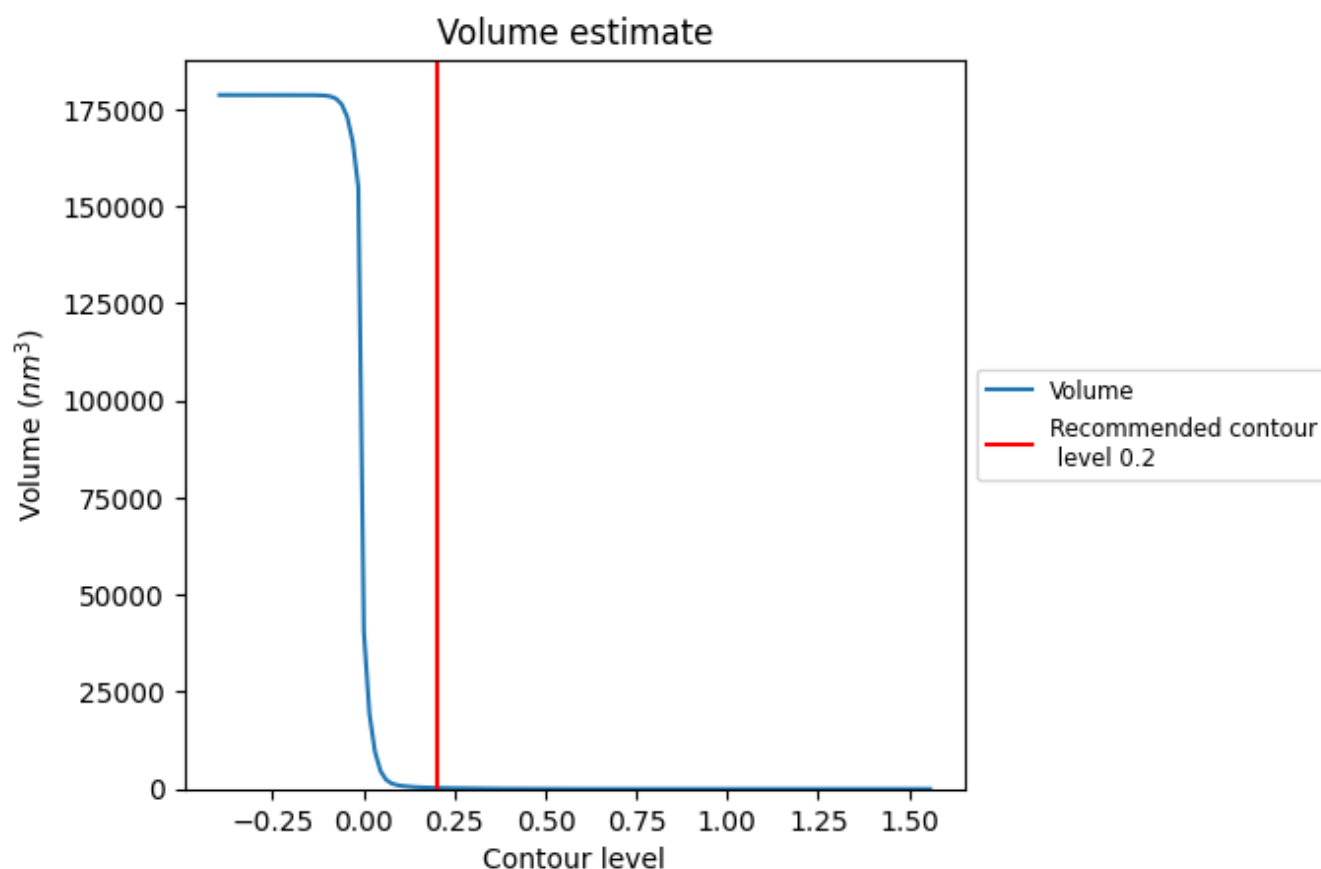
This section contains the results of statistical analysis of the map.

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.

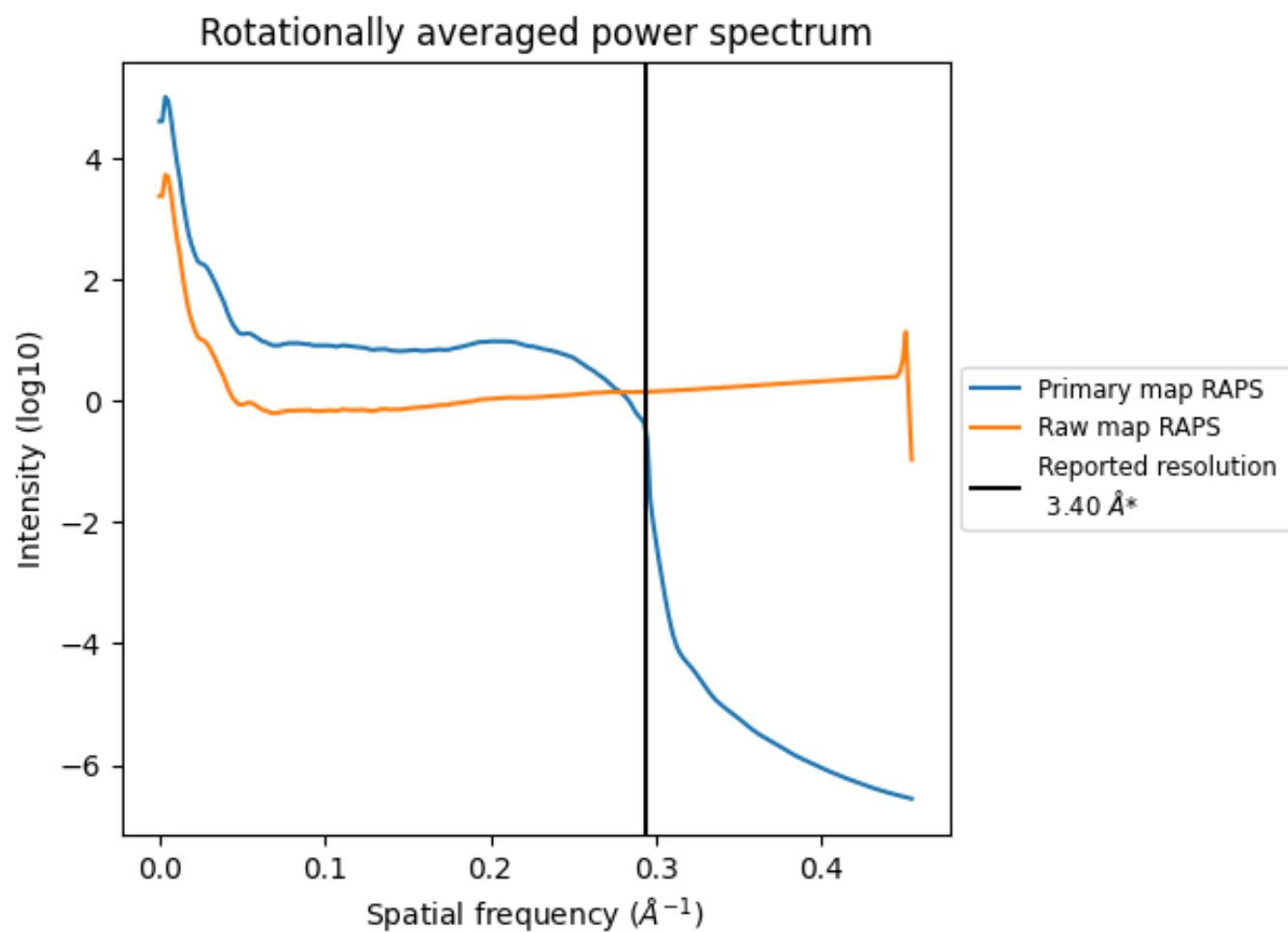
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 262 nm^3 ; this corresponds to an approximate mass of 237 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 ⓘ

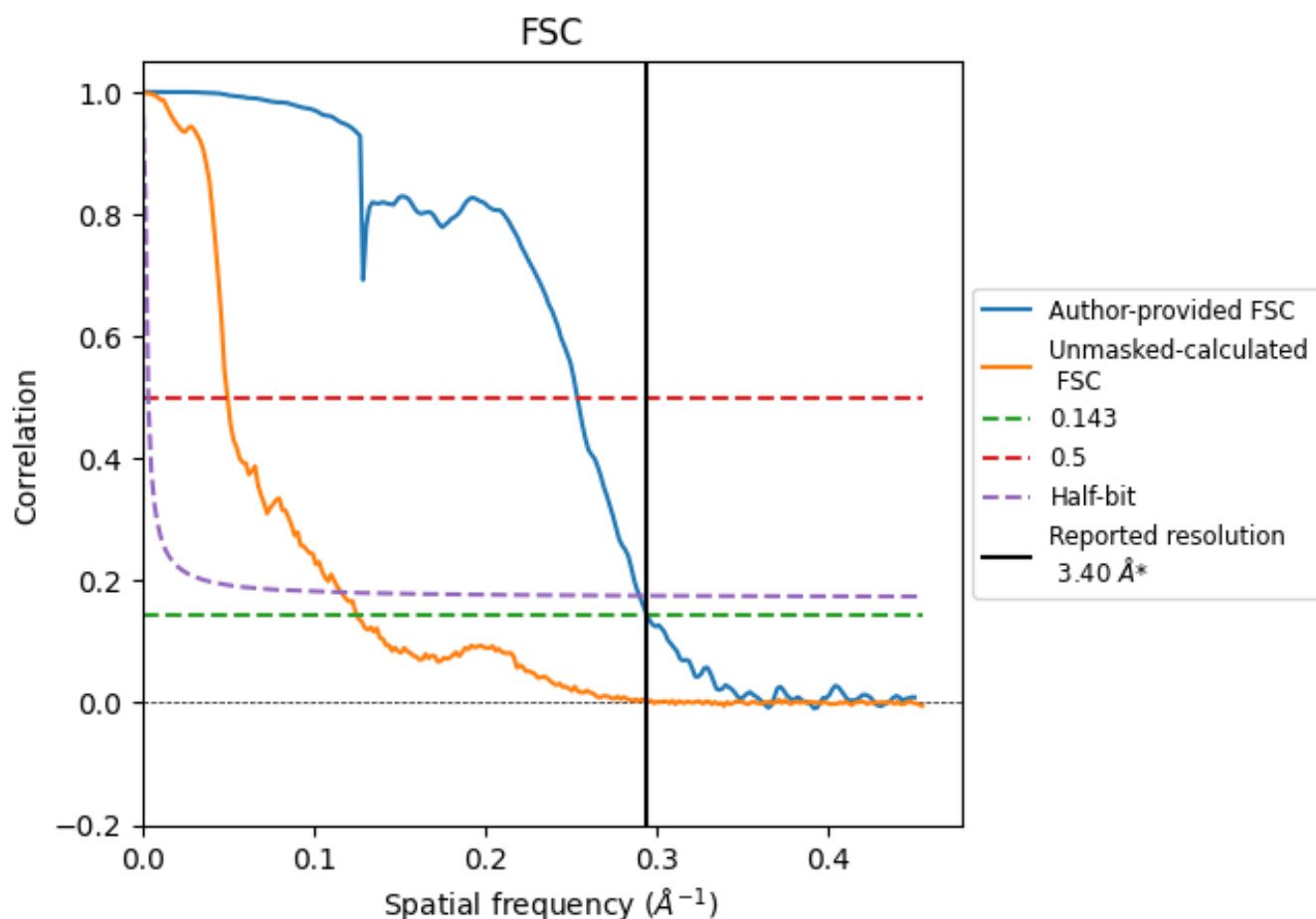


*Reported resolution corresponds to spatial frequency of 0.294 Å⁻¹

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 0.294 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

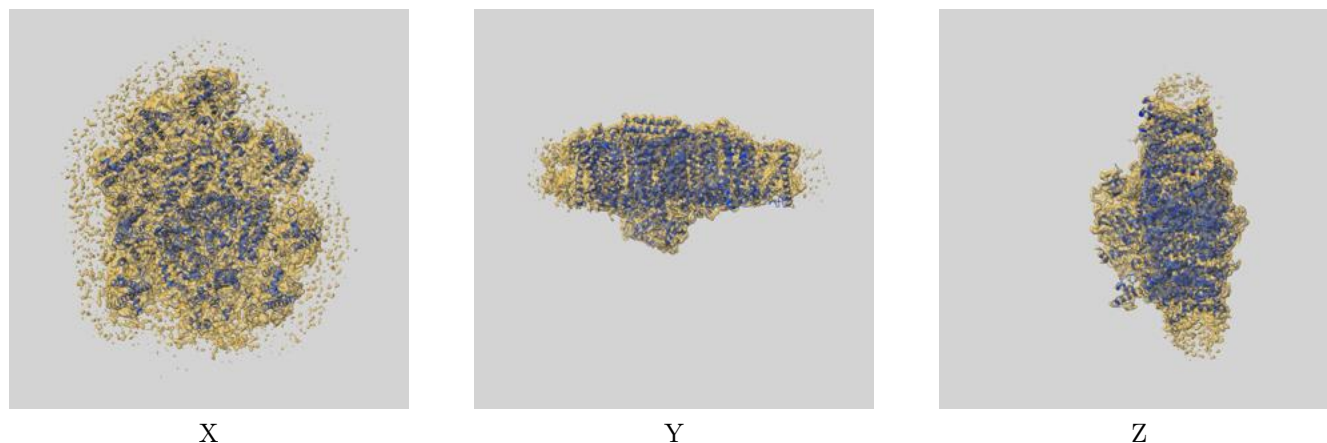
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.40	-	-
Author-provided FSC curve	3.40	3.94	3.45
Unmasked-calculated*	7.99	20.12	8.62

*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 7.99 differs from the reported value 3.4 by more than 10 %

9 Map-model fit [i](#)

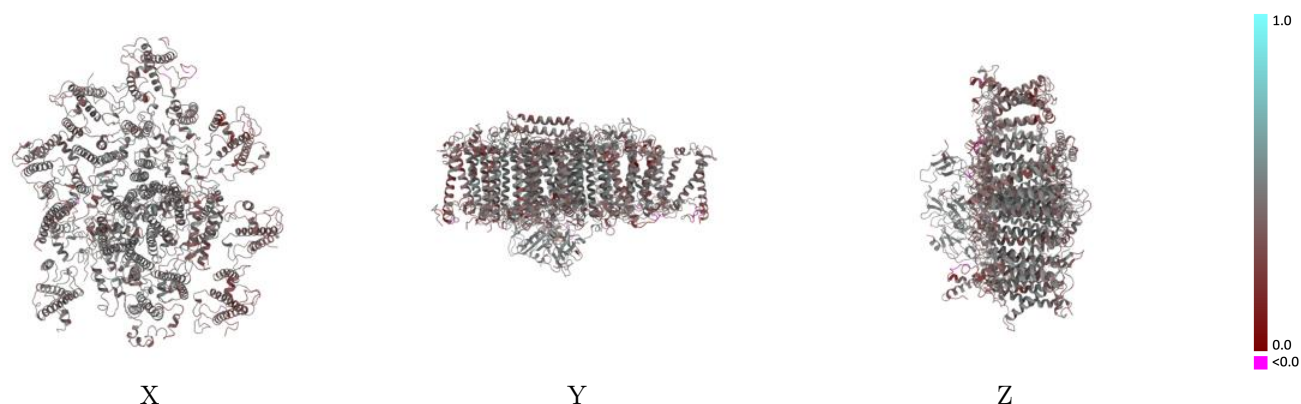
This section contains information regarding the fit between EMDB map EMD-60293 and PDB model 8ZOH. Per-residue inclusion information can be found in section 3 on page 29.

9.1 Map-model overlay [i](#)



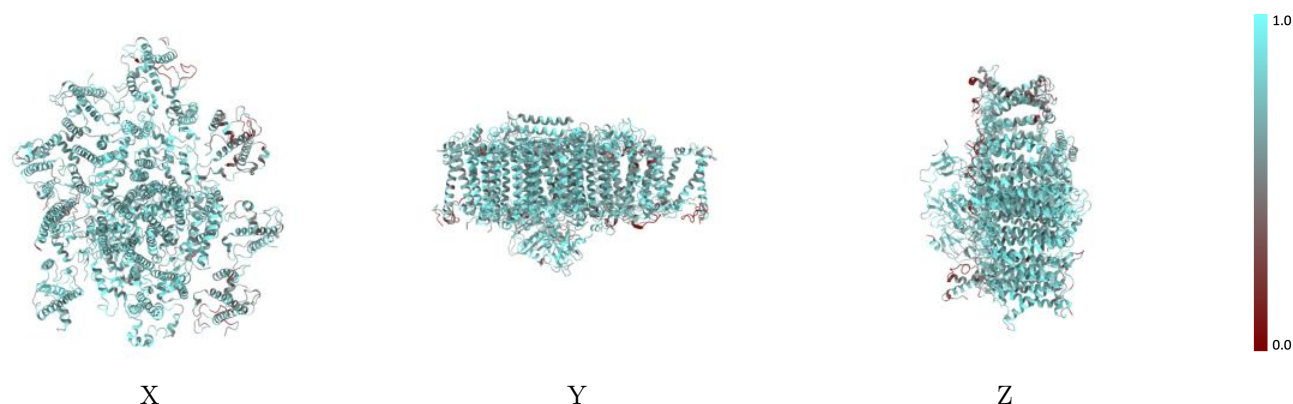
The images above show the 3D surface view of the map at the recommended contour level 0.2 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



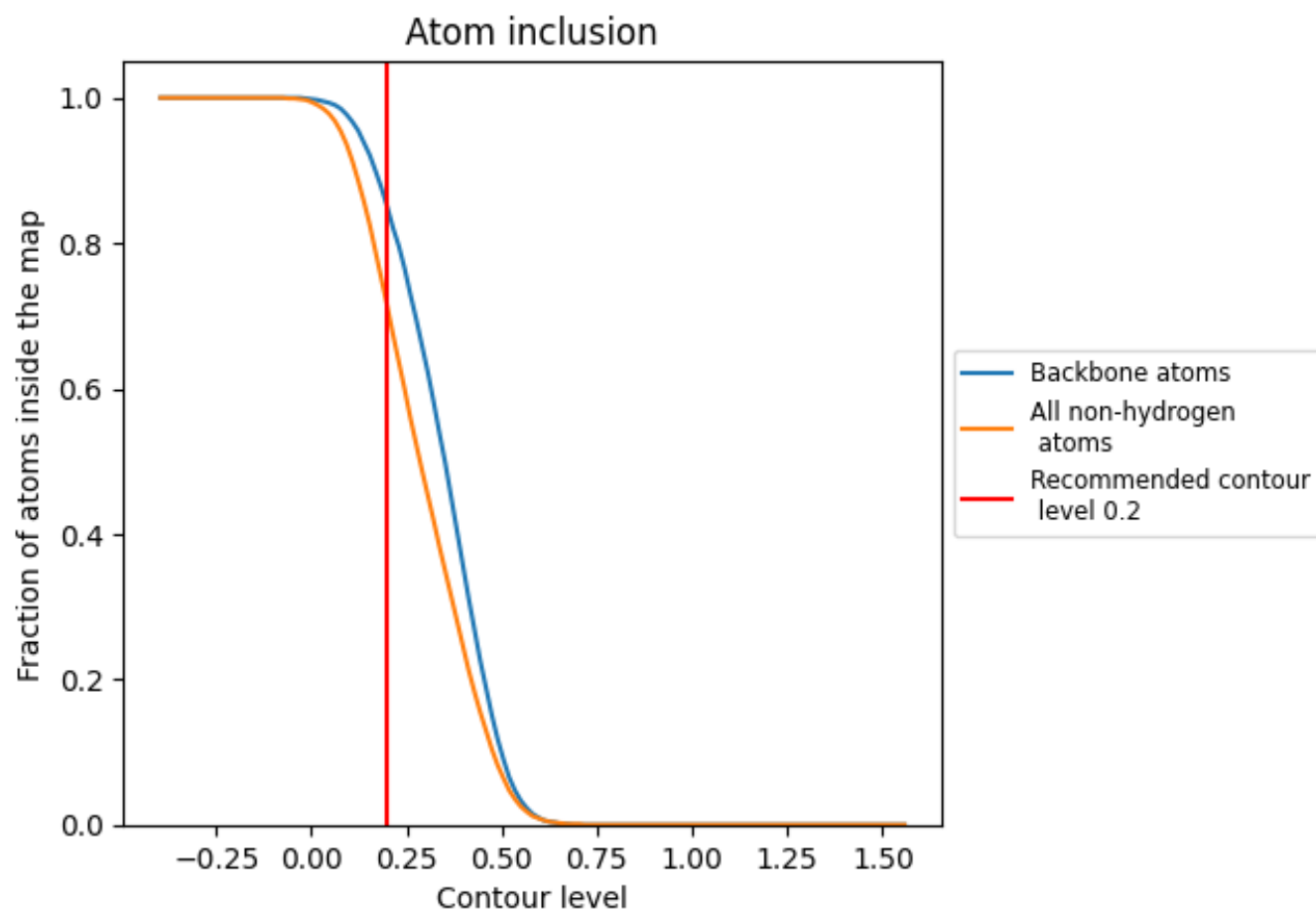
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.2).

9.4 Atom inclusion ⓘ



At the recommended contour level, 85% of all backbone atoms, 71% 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 (0.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7120	 0.4300
1	 0.7230	 0.4360
4	 0.5480	 0.3590
5	 0.6560	 0.3970
6	 0.5340	 0.3670
7	 0.6100	 0.3860
8	 0.7240	 0.4350
9	 0.6920	 0.4250
a	 0.7560	 0.4490
b	 0.7590	 0.4500
c	 0.8610	 0.4780
d	 0.7960	 0.4630
e	 0.7800	 0.4640
f	 0.7280	 0.4210
g	 0.6640	 0.3950
h	 0.7020	 0.4340
i	 0.7370	 0.4740
j	 0.7050	 0.4500
l	 0.7330	 0.4220
m	 0.7130	 0.4580

