wwPDB X-ray Structure Validation Summary Report (i)

Sep 4, 2023 – 12:17 PM JST

PDB ID	:	8GT0
Title	:	Structure of falcipain and human Stefin A complex
Authors	:	Chakraborty, S.; Biswas, S.
Deposited on	:	2022-09-07
Resolution	:	3.28 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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/XrayValidationReportHelp
with specific help available everywhere you see the (i) 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 (i)) were used in the production of this report:

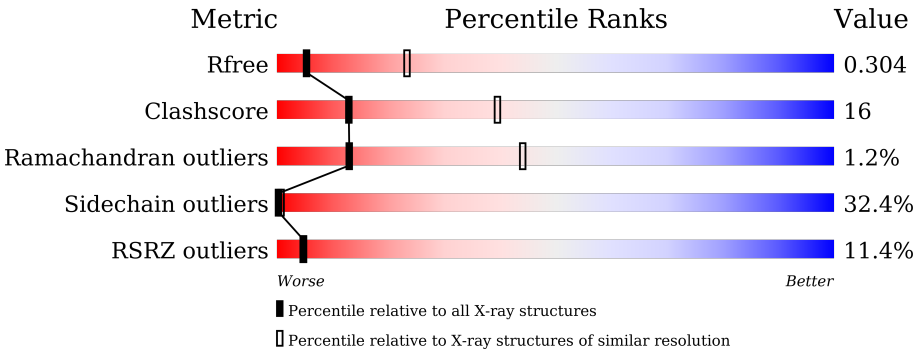
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.28 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1177 (3.32-3.24)
Clashscore	141614	1044 (3.30-3.26)
Ramachandran outliers	138981	1026 (3.30-3.26)
Sidechain outliers	138945	1025 (3.30-3.26)
RSRZ outliers	127900	1141 (3.32-3.24)

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

Mol	Chain	Length	Quality of chain
1	A	241	8% 56% 36% 8%
1	C	241	12% 44% 42% 14%
1	E	241	93%
2	B	98	21% 41% 44% 14%
2	D	98	9% 45% 45% 9%

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
3	GOL	C	303	-	-	-	X
4	NA	D	104	-	-	-	X
7	EDO	C	328	-	-	-	X

2 Entry composition (i)

There are 11 unique types of molecules in this entry. The entry contains 7032 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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.

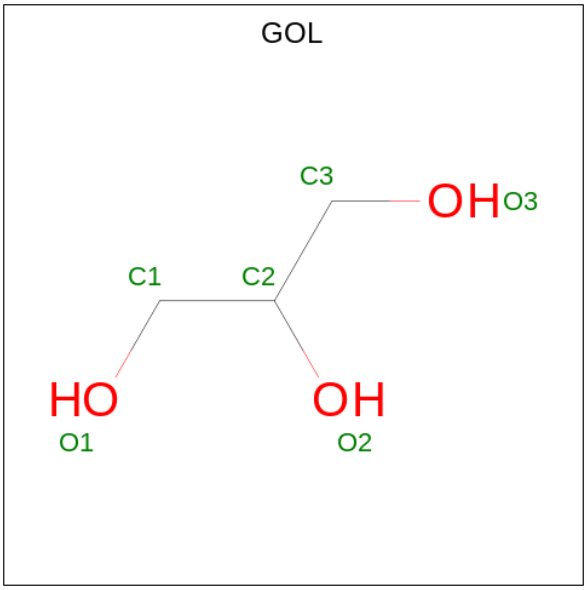
- Molecule 1 is a protein called Cysteine protease falcipain-2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	241	Total	C	N	O	S	0	0	0
			1909	1210	314	371	14			
1	C	241	Total	C	N	O	S	0	0	0
			1909	1210	314	371	14			
1	E	18	Total	C	N	O	S	0	0	0
			135	89	22	22	2			

- Molecule 2 is a protein called Cystatin-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	98	Total	C	N	O	S	0	0	0
			775	492	126	155	2			
2	D	98	Total	C	N	O	S	0	0	0
			775	492	126	155	2			

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0

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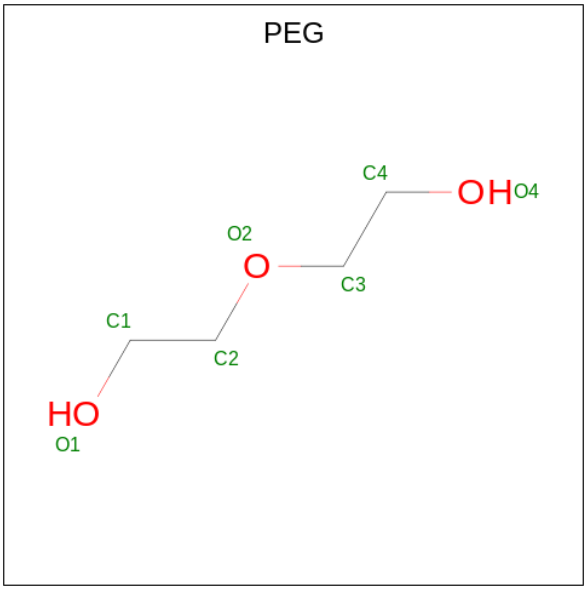
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	D	1	Total C O 6 3 3	0	0
3	D	1	Total C O 6 3 3	0	0
3	D	1	Total C O 6 3 3	0	0
3	D	1	Total C O 6 3 3	0	0
3	D	1	Total C O 6 3 3	0	0
3	D	1	Total C O 6 3 3	0	0
3	D	1	Total C O 6 3 3	0	0
3	D	1	Total C O 6 3 3	0	0
3	E	1	Total C O 6 3 3	0	0
3	E	1	Total C O 6 3 3	0	0
3	E	1	Total C O 6 3 3	0	0

- Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	4	Total Na 4 4	0	0
4	B	6	Total Na 6 6	0	0
4	C	5	Total Na 5 5	0	0
4	D	8	Total Na 8 8	0	0
4	E	2	Total Na 2 2	0	0

- Molecule 5 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 7 4 3	0	0
5	A	1	Total C O 7 4 3	0	0
5	A	1	Total C O 7 4 3	0	0
5	A	1	Total C O 7 4 3	0	0
5	A	1	Total C O 7 4 3	0	0

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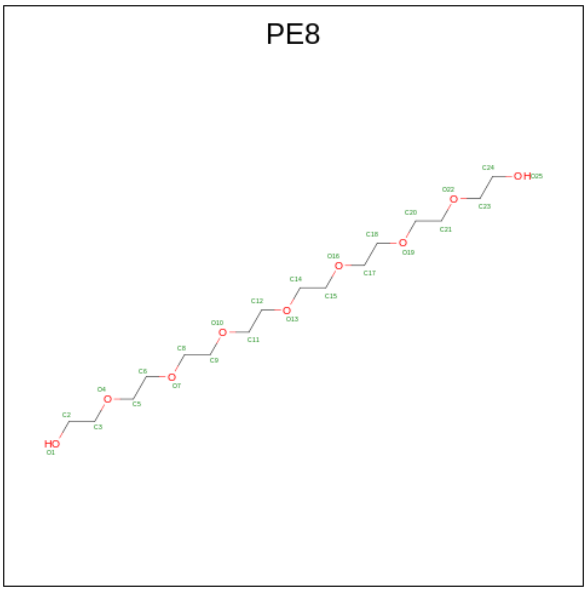
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 7 4 3	0	0
5	A	1	Total C O 7 4 3	0	0
5	B	1	Total C O 7 4 3	0	0
5	B	1	Total C O 7 4 3	0	0
5	C	1	Total C O 7 4 3	0	0
5	C	1	Total C O 7 4 3	0	0
5	C	1	Total C O 7 4 3	0	0
5	C	1	Total C O 7 4 3	0	0
5	C	1	Total C O 7 4 3	0	0
5	C	1	Total C O 7 4 3	0	0
5	C	1	Total C O 7 4 3	0	0
5	C	1	Total C O 7 4 3	0	0
5	C	1	Total C O 7 4 3	0	0
5	D	1	Total C O 7 4 3	0	0
5	D	1	Total C O 7 4 3	0	0
5	E	1	Total C O 7 4 3	0	0
5	E	1	Total C O 7 4 3	0	0
5	E	1	Total C O 7 4 3	0	0
5	E	1	Total C O 7 4 3	0	0

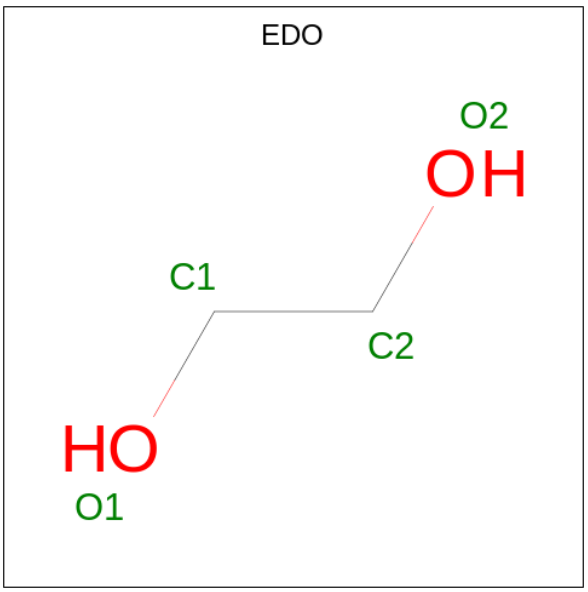
- Molecule 6 is 3,6,9,12,15,18,21-HEPTAOXATRICOSANE-1,23-DIOL (three-letter code: PE8) (formula: $C_{16}H_{34}O_{9}$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total C O 25 16 9	0	0
6	A	1	Total C O 25 16 9	0	0
6	A	1	Total C O 25 16 9	0	0
6	B	1	Total C O 25 16 9	0	0
6	B	1	Total C O 25 16 9	0	0
6	B	1	Total C O 25 16 9	0	0
6	B	1	Total C O 25 16 9	0	0
6	B	1	Total C O 25 16 9	0	0
6	C	1	Total C O 25 16 9	0	0
6	C	1	Total C O 25 16 9	0	0
6	E	1	Total C O 25 16 9	0	0
6	E	1	Total C O 25 16 9	0	0
6	E	1	Total C O 25 16 9	0	0

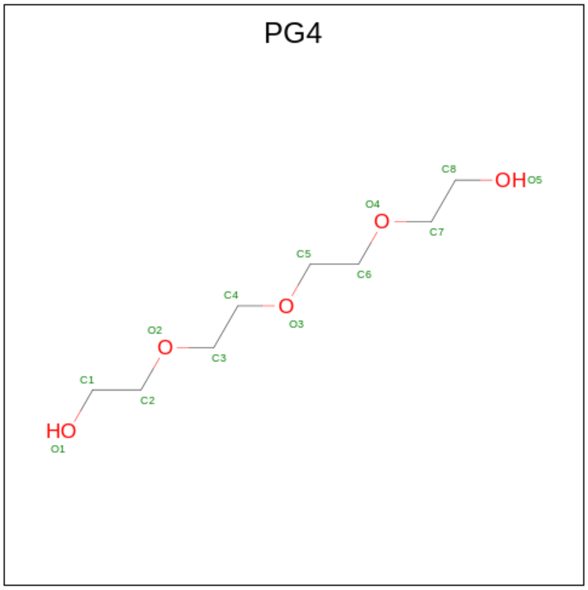
- Molecule 7 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$) (labeled as

"Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	A	1	Total	C	O	0	0
			4	2	2		
7	A	1	Total	C	O	0	0
			4	2	2		
7	A	1	Total	C	O	0	0
			4	2	2		
7	A	1	Total	C	O	0	0
			4	2	2		
7	A	1	Total	C	O	0	0
			4	2	2		
7	B	1	Total	C	O	0	0
			4	2	2		
7	B	1	Total	C	O	0	0
			4	2	2		
7	C	1	Total	C	O	0	0
			4	2	2		
7	C	1	Total	C	O	0	0
			4	2	2		
7	C	1	Total	C	O	0	0
			4	2	2		
7	C	1	Total	C	O	0	0
			4	2	2		

- Molecule 8 is TETRAETHYLENE GLYCOL (three-letter code: PG4) (formula: $C_8H_{18}O_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	1	Total C O 13 8 5	0	0
8	A	1	Total C O 13 8 5	0	0
8	A	1	Total C O 13 8 5	0	0
8	A	1	Total C O 13 8 5	0	0
8	A	1	Total C O 13 8 5	0	0
8	A	1	Total C O 13 8 5	0	0
8	A	1	Total C O 13 8 5	0	0
8	A	1	Total C O 13 8 5	0	0
8	A	1	Total C O 13 8 5	0	0
8	A	1	Total C O 13 8 5	0	0
8	B	1	Total C O 13 8 5	0	0
8	B	1	Total C O 13 8 5	0	0
8	B	1	Total C O 13 8 5	0	0
8	B	1	Total C O 13 8 5	0	0

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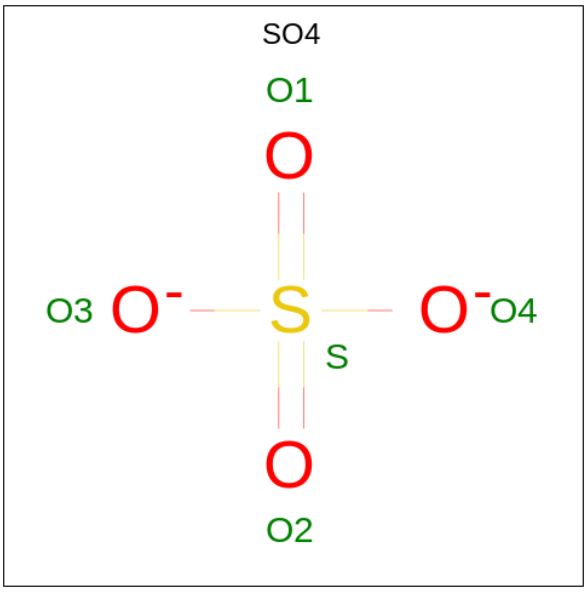
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	B	1	Total C O 13 8 5	0	0
8	B	1	Total C O 13 8 5	0	0
8	C	1	Total C O 13 8 5	0	0
8	C	1	Total C O 13 8 5	0	0
8	C	1	Total C O 13 8 5	0	0
8	C	1	Total C O 13 8 5	0	0
8	C	1	Total C O 13 8 5	0	0
8	C	1	Total C O 13 8 5	0	0
8	D	1	Total C O 13 8 5	0	0
8	D	1	Total C O 13 8 5	0	0
8	D	1	Total C O 13 8 5	0	0
8	D	1	Total C O 13 8 5	0	0
8	D	1	Total C O 13 8 5	0	0
8	D	1	Total C O 13 8 5	0	0
8	D	1	Total C O 13 8 5	0	0
8	D	1	Total C O 13 8 5	0	0
8	E	1	Total C O 13 8 5	0	0

- Molecule 9 is SULFATE ION (three-letter code: SO4) (formula: O_4S) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	B	1	Total O S 5 4 1	0	0
9	C	1	Total O S 5 4 1	0	0
9	D	1	Total O S 5 4 1	0	0
9	D	1	Total O S 5 4 1	0	0
9	D	1	Total O S 5 4 1	0	0
9	D	1	Total O S 5 4 1	0	0
9	E	1	Total O S 5 4 1	0	0

- Molecule 10 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
10	D	1	Total Cl 1 1	0	0

- Molecule 11 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
11	A	36	Total O 36 36	0	0

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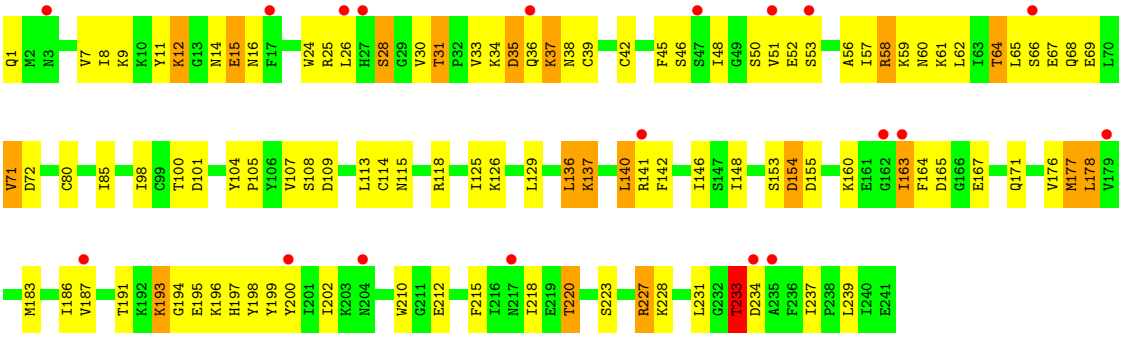
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
11	B	36	Total O 36 36	0	0
11	C	35	Total O 35 35	0	0
11	D	28	Total O 28 28	0	0
11	E	9	Total O 9 9	0	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

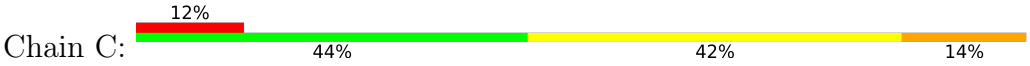
• Molecule 1: Cysteine protease falcipain-2

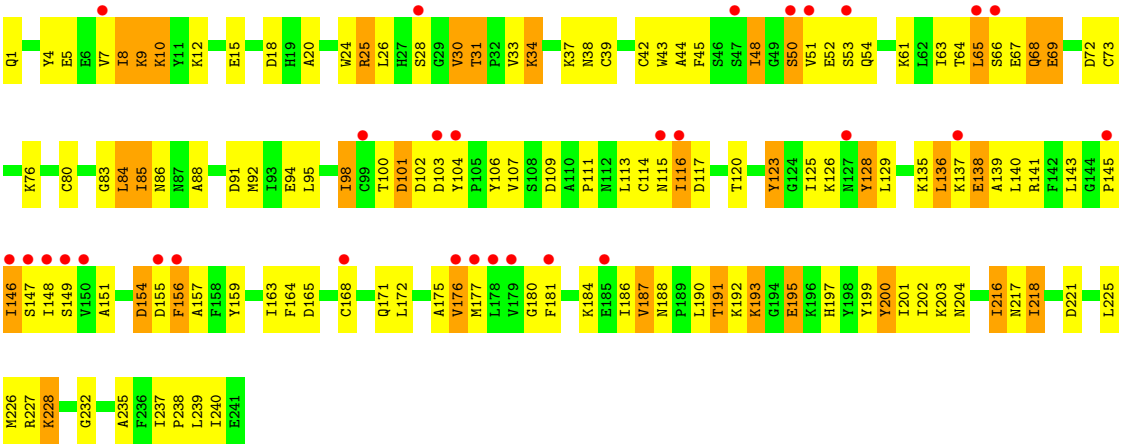
Chain A:



• Molecule 1: Cysteine protease falcipain-2

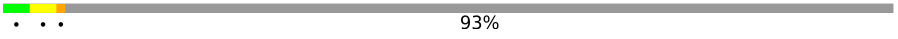
Chain C:

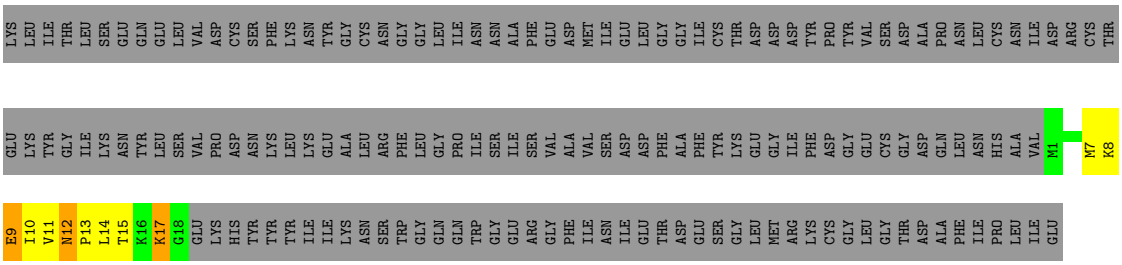




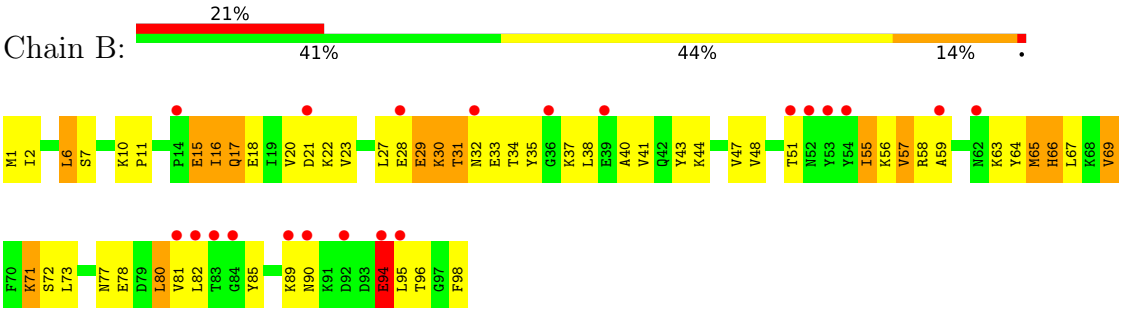
• Molecule 1: Cysteine protease falcipain-2

Chain E:

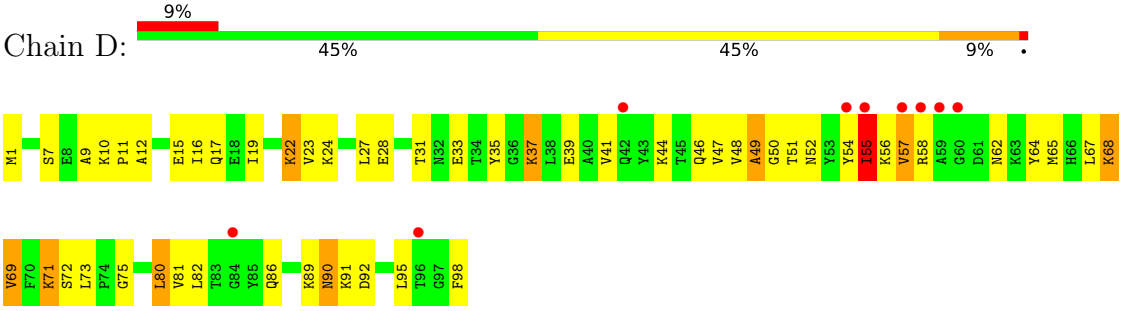




• Molecule 2: Cystatin-A



• Molecule 2: Cystatin-A



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	65.10Å 118.06Å 119.34Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.99 – 3.28 43.99 – 3.28	Depositor EDS
% Data completeness (in resolution range)	99.5 (43.99-3.28) 99.8 (43.99-3.28)	Depositor EDS
R_{merge}	0.43	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.94 (at 3.25Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.278 , 0.299 0.286 , 0.304	Depositor DCC
R_{free} test set	746 reflections (5.10%)	wwPDB-VP
Wilson B-factor (Å^2)	76.7	Xtriage
Anisotropy	0.676	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.31 , 999.0	EDS
L-test for twinning[2]	$< \|L\| > = 0.41$, $< L^2 > = 0.24$	Xtriage
Estimated twinning fraction	0.045 for -h,l,k	Xtriage
F_o,F_c correlation	0.81	EDS
Total number of atoms	7032	wwPDB-VP
Average B, all atoms (Å^2)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.11% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: EDO, NA, PE8, CL, GOL, PG4, SO4, PEG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	A	0.31	0/1951	0.58	0/2630
1	C	0.31	0/1951	0.61	0/2630
1	E	0.36	0/136	0.77	0/179
2	B	0.30	0/788	0.60	0/1062
2	D	0.32	0/788	0.60	0/1062
All	All	0.31	0/5614	0.60	0/7563

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1909	0	1830	50	0
1	C	1909	0	1830	76	0
1	E	135	0	154	7	0
2	B	775	0	780	30	0
2	D	775	0	780	40	0
3	A	102	0	136	2	0
3	B	126	0	168	2	0
3	C	90	0	120	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	48	0	64	3	0
3	E	18	0	24	1	0
4	A	4	0	0	0	0
4	B	6	0	0	0	0
4	C	5	0	0	0	0
4	D	8	0	0	0	0
4	E	2	0	0	0	0
5	A	49	0	70	3	0
5	B	14	0	20	0	0
5	C	63	0	90	0	0
5	D	14	0	20	2	0
5	E	28	0	40	1	0
6	A	75	0	102	5	0
6	B	125	0	170	7	0
6	C	50	0	68	4	0
6	E	75	0	102	5	0
7	A	20	0	30	0	0
7	B	8	0	12	0	0
7	C	16	0	24	0	0
8	A	130	0	180	8	0
8	B	78	0	108	4	0
8	C	78	0	108	8	0
8	D	104	0	144	3	0
8	E	13	0	18	0	0
9	B	5	0	0	0	0
9	C	5	0	0	0	0
9	D	20	0	0	0	0
9	E	5	0	0	0	0
10	D	1	0	0	0	0
11	A	36	0	0	0	0
11	B	36	0	0	0	0
11	C	35	0	0	1	0
11	D	28	0	0	0	0
11	E	9	0	0	0	0
All	All	7032	0	7192	232	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 16.

The worst 5 of 232 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)
2:B:35:TYR:HB3	2:B:38:LEU:HD21	1.59	0.85
8:A:330:PG4:H31	1:C:111:PRO:HG3	1.65	0.78
2:D:19:ILE:HG23	2:D:80:LEU:HD21	1.67	0.77
1:C:45:PHE:HA	1:C:67:GLU:HG2	1.67	0.75
1:C:128:TYR:OH	11:C:401:HOH:O	2.03	0.75

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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	239/241 (99%)	201 (84%)	37 (16%)	1 (0%)	34 67
1	C	239/241 (99%)	191 (80%)	47 (20%)	1 (0%)	34 67
1	E	16/241 (7%)	6 (38%)	10 (62%)	0	100 100
2	B	96/98 (98%)	73 (76%)	19 (20%)	4 (4%)	3 17
2	D	96/98 (98%)	77 (80%)	17 (18%)	2 (2%)	7 33
All	All	686/919 (75%)	548 (80%)	130 (19%)	8 (1%)	13 44

5 of 8 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	17	GLN
2	B	77	ASN
2	D	55	ILE
1	A	233	THR
2	B	94	GLU

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar

resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	207/207 (100%)	147 (71%)	60 (29%)	0 1
1	C	207/207 (100%)	134 (65%)	73 (35%)	0 0
1	E	15/207 (7%)	10 (67%)	5 (33%)	0 0
2	B	85/85 (100%)	49 (58%)	36 (42%)	0 0
2	D	85/85 (100%)	65 (76%)	20 (24%)	1 2
All	All	599/791 (76%)	405 (68%)	194 (32%)	0 1

5 of 194 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	61	LYS
1	C	141	ARG
1	C	76	LYS
1	C	107	VAL
1	C	165	ASP

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

Mol	Chain	Res	Type
1	A	77	ASN
1	C	27	HIS
1	C	68	GLN
1	C	112	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 176 ligands modelled in this entry, 26 are monoatomic - leaving 150 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
8	PG4	C	325	-	12,12,12	0.13	0	11,11,11	0.63	0
6	PE8	B	122	-	24,24,24	0.53	0	23,23,23	0.28	0
6	PE8	E	114	-	24,24,24	0.53	0	23,23,23	0.32	0
5	PEG	E	111	-	6,6,6	0.11	0	5,5,5	0.07	0
3	GOL	B	135	-	5,5,5	0.94	0	5,5,5	0.98	0
3	GOL	C	338	-	5,5,5	0.90	0	5,5,5	1.04	0
5	PEG	C	339	-	6,6,6	0.09	0	5,5,5	0.12	0
3	GOL	C	304	-	5,5,5	0.92	0	5,5,5	1.02	0
3	GOL	D	122	-	5,5,5	0.88	0	5,5,5	1.05	0
5	PEG	A	319	-	6,6,6	0.10	0	5,5,5	0.13	0
8	PG4	D	105	-	12,12,12	0.14	0	11,11,11	0.79	0
3	GOL	C	311	-	5,5,5	0.93	0	5,5,5	0.91	0
3	GOL	A	306	-	5,5,5	0.96	0	5,5,5	0.87	0
6	PE8	C	321	-	24,24,24	0.54	0	23,23,23	0.37	0
5	PEG	C	330	-	6,6,6	0.10	0	5,5,5	0.09	0
3	GOL	B	106	-	5,5,5	0.94	0	5,5,5	0.92	0
5	PEG	A	320	-	6,6,6	0.11	0	5,5,5	0.06	0
7	EDO	B	103	-	3,3,3	0.46	0	2,2,2	0.35	0
7	EDO	B	124	-	3,3,3	0.46	0	2,2,2	0.35	0
3	GOL	D	106	-	5,5,5	0.91	0	5,5,5	1.03	0
6	PE8	A	323	-	24,24,24	0.54	0	23,23,23	0.29	0
3	GOL	A	302	-	5,5,5	0.94	0	5,5,5	0.92	0
3	GOL	E	103	-	5,5,5	0.92	0	5,5,5	0.97	0
7	EDO	C	329	-	3,3,3	0.45	0	2,2,2	0.35	0
5	PEG	C	315	-	6,6,6	0.08	0	5,5,5	0.14	0
5	PEG	A	318	-	6,6,6	0.12	0	5,5,5	0.07	0
7	EDO	C	328	-	3,3,3	0.46	0	2,2,2	0.35	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
5	PEG	D	123	-	6,6,6	0.09	0	5,5,5	0.15	0
9	SO4	D	113	-	4,4,4	0.14	0	6,6,6	0.08	0
3	GOL	B	134	-	5,5,5	1.00	0	5,5,5	0.92	0
8	PG4	B	126	-	12,12,12	0.11	0	11,11,11	0.63	0
8	PG4	B	104	-	12,12,12	0.11	0	11,11,11	0.75	0
6	PE8	B	123	-	24,24,24	0.53	0	23,23,23	0.31	0
3	GOL	B	137	-	5,5,5	0.95	0	5,5,5	0.90	0
8	PG4	A	337	-	12,12,12	0.12	0	11,11,11	0.76	1 (9%)
8	PG4	B	128	-	12,12,12	0.11	0	11,11,11	0.62	0
3	GOL	A	307	-	5,5,5	0.97	0	5,5,5	0.88	0
5	PEG	C	319	-	6,6,6	0.14	0	5,5,5	0.05	0
3	GOL	A	309	-	5,5,5	0.91	0	5,5,5	1.01	0
8	PG4	A	344	-	12,12,12	0.12	0	11,11,11	0.63	0
3	GOL	C	303	-	5,5,5	0.92	0	5,5,5	0.98	0
3	GOL	B	116	-	5,5,5	0.91	0	5,5,5	0.99	0
6	PE8	C	322	-	24,24,24	0.53	0	23,23,23	0.26	0
3	GOL	D	107	-	5,5,5	0.91	0	5,5,5	1.00	0
6	PE8	A	324	-	24,24,24	0.54	0	23,23,23	0.38	0
8	PG4	A	328	-	12,12,12	0.14	0	11,11,11	0.51	0
3	GOL	B	115	-	5,5,5	0.98	0	5,5,5	0.87	0
9	SO4	B	119	-	4,4,4	0.14	0	6,6,6	0.05	0
3	GOL	D	103	-	5,5,5	0.94	0	5,5,5	0.93	0
3	GOL	A	308	-	5,5,5	0.96	0	5,5,5	0.89	0
8	PG4	A	332	-	12,12,12	0.13	0	11,11,11	0.59	0
7	EDO	A	325	-	3,3,3	0.46	0	2,2,2	0.32	0
6	PE8	B	131	-	24,24,24	0.53	0	23,23,23	0.25	0
3	GOL	B	110	-	5,5,5	0.89	0	5,5,5	1.04	0
9	SO4	D	114	-	4,4,4	0.14	0	6,6,6	0.08	0
3	GOL	B	101	-	5,5,5	0.91	0	5,5,5	0.94	0
3	GOL	B	140	-	5,5,5	0.98	0	5,5,5	0.96	0
3	GOL	C	341	-	5,5,5	0.92	0	5,5,5	1.13	0
3	GOL	A	303	-	5,5,5	0.93	0	5,5,5	0.99	0
3	GOL	B	109	-	5,5,5	0.95	0	5,5,5	0.93	0
5	PEG	C	318	-	6,6,6	0.16	0	5,5,5	0.17	0
5	PEG	A	321	-	6,6,6	0.08	0	5,5,5	0.13	0
7	EDO	A	327	-	3,3,3	0.46	0	2,2,2	0.36	0
7	EDO	A	343	-	3,3,3	0.46	0	2,2,2	0.32	0
3	GOL	B	108	-	5,5,5	0.91	0	5,5,5	0.97	0
3	GOL	A	313	-	5,5,5	0.87	0	5,5,5	1.05	0
9	SO4	D	126	-	4,4,4	0.15	0	6,6,6	0.05	0
3	GOL	B	136	-	5,5,5	0.92	0	5,5,5	0.99	0
8	PG4	D	127	-	12,12,12	0.10	0	11,11,11	0.66	0
3	GOL	B	111	-	5,5,5	0.92	0	5,5,5	0.94	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	GOL	B	132	-	5,5,5	0.90	0	5,5,5	1.02	0
5	PEG	A	335	-	6,6,6	0.17	0	5,5,5	0.23	0
5	PEG	C	340	-	6,6,6	0.09	0	5,5,5	0.11	0
6	PE8	A	322	-	24,24,24	0.53	0	23,23,23	0.32	0
3	GOL	C	305	-	5,5,5	0.89	0	5,5,5	1.04	0
8	PG4	A	329	-	12,12,12	0.15	0	11,11,11	0.53	0
8	PG4	B	129	4	12,12,12	0.13	0	11,11,11	0.56	0
3	GOL	A	345	-	5,5,5	0.95	0	5,5,5	0.99	0
8	PG4	C	326	-	12,12,12	0.19	0	11,11,11	0.54	0
8	PG4	A	331	-	12,12,12	0.12	0	11,11,11	0.67	0
8	PG4	E	101	-	12,12,12	0.11	0	11,11,11	0.62	0
3	GOL	A	310	-	5,5,5	0.96	0	5,5,5	0.91	0
5	PEG	B	120	-	6,6,6	0.10	0	5,5,5	0.08	0
5	PEG	A	342	-	6,6,6	0.10	0	5,5,5	0.10	0
3	GOL	A	312	-	5,5,5	0.93	0	5,5,5	1.00	0
5	PEG	C	320	-	6,6,6	0.07	0	5,5,5	0.27	0
3	GOL	B	130	-	5,5,5	0.98	0	5,5,5	0.80	0
3	GOL	E	102	-	5,5,5	0.91	0	5,5,5	0.98	0
3	GOL	C	308	-	5,5,5	0.89	0	5,5,5	0.94	0
8	PG4	D	117	-	12,12,12	0.11	0	11,11,11	0.61	0
8	PG4	C	332	-	12,12,12	0.11	0	11,11,11	0.67	0
6	PE8	E	112	-	24,24,24	0.53	0	23,23,23	0.30	0
8	PG4	D	121	-	12,12,12	0.10	0	11,11,11	0.61	0
3	GOL	C	342	-	5,5,5	0.91	0	5,5,5	0.96	0
5	PEG	C	317	-	6,6,6	0.08	0	5,5,5	0.16	0
3	GOL	A	311	-	5,5,5	0.90	0	5,5,5	0.97	0
6	PE8	E	113	-	24,24,24	0.53	0	23,23,23	0.26	0
8	PG4	D	119	-	12,12,12	0.12	0	11,11,11	0.57	0
7	EDO	A	326	-	3,3,3	0.44	0	2,2,2	0.39	0
3	GOL	A	340	-	5,5,5	0.90	0	5,5,5	1.01	0
8	PG4	C	327	-	12,12,12	0.13	0	11,11,11	0.62	0
3	GOL	C	306	-	5,5,5	0.89	0	5,5,5	1.00	0
3	GOL	C	331	-	5,5,5	0.91	0	5,5,5	0.97	0
5	PEG	B	139	-	6,6,6	0.10	0	5,5,5	0.09	0
9	SO4	D	112	-	4,4,4	0.14	0	6,6,6	0.08	0
5	PEG	E	109	-	6,6,6	0.10	0	5,5,5	0.10	0
8	PG4	D	116	-	12,12,12	0.12	0	11,11,11	0.64	0
8	PG4	A	334	-	12,12,12	0.13	0	11,11,11	0.69	0
5	PEG	E	110	-	6,6,6	0.11	0	5,5,5	0.13	0
3	GOL	A	301	-	5,5,5	0.91	0	5,5,5	1.02	0
5	PEG	D	115	-	6,6,6	0.12	0	5,5,5	0.11	0
8	PG4	C	337	-	12,12,12	0.13	0	11,11,11	0.58	0
3	GOL	A	314	-	5,5,5	0.96	0	5,5,5	0.85	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
5	PEG	E	108	-	6,6,6	0.10	0	5,5,5	0.11	0
3	GOL	D	124	-	5,5,5	0.95	0	5,5,5	0.86	0
5	PEG	A	341	-	6,6,6	0.11	0	5,5,5	0.16	0
3	GOL	B	102	-	5,5,5	0.96	0	5,5,5	0.87	0
3	GOL	C	307	-	5,5,5	1.00	0	5,5,5	0.83	0
3	GOL	C	309	-	5,5,5	0.91	0	5,5,5	1.00	0
3	GOL	B	112	-	5,5,5	0.94	0	5,5,5	1.01	0
3	GOL	A	346	-	5,5,5	0.94	0	5,5,5	0.94	0
3	GOL	A	304	-	5,5,5	0.96	0	5,5,5	0.91	0
7	EDO	A	336	-	3,3,3	0.45	0	2,2,2	0.35	0
8	PG4	A	338	-	12,12,12	0.14	0	11,11,11	0.60	0
7	EDO	C	334	-	3,3,3	0.45	0	2,2,2	0.40	0
8	PG4	B	125	-	12,12,12	0.09	0	11,11,11	0.70	0
8	PG4	D	118	-	12,12,12	0.12	0	11,11,11	0.56	0
6	PE8	B	105	-	24,24,24	0.53	0	23,23,23	0.35	0
7	EDO	C	323	-	3,3,3	0.46	0	2,2,2	0.31	0
8	PG4	D	101	-	12,12,12	0.12	0	11,11,11	0.62	0
3	GOL	C	310	-	5,5,5	0.88	0	5,5,5	0.98	0
8	PG4	B	127	-	12,12,12	0.12	0	11,11,11	0.63	0
9	SO4	C	336	-	4,4,4	0.15	0	6,6,6	0.05	0
8	PG4	A	333	-	12,12,12	0.14	0	11,11,11	0.67	0
3	GOL	B	113	-	5,5,5	1.01	0	5,5,5	0.85	0
8	PG4	C	324	-	12,12,12	0.16	0	11,11,11	0.41	0
9	SO4	E	107	-	4,4,4	0.14	0	6,6,6	0.05	0
3	GOL	B	138	-	5,5,5	1.02	0	5,5,5	1.04	0
3	GOL	B	114	-	5,5,5	0.90	0	5,5,5	1.00	0
3	GOL	D	109	-	5,5,5	0.96	0	5,5,5	1.00	0
3	GOL	A	305	-	5,5,5	0.94	0	5,5,5	0.95	0
3	GOL	D	110	-	5,5,5	0.99	0	5,5,5	0.83	0
3	GOL	C	301	-	5,5,5	0.89	0	5,5,5	1.00	0
3	GOL	D	108	-	5,5,5	0.90	0	5,5,5	1.03	0
3	GOL	C	302	-	5,5,5	0.90	0	5,5,5	0.98	0
6	PE8	B	121	-	24,24,24	0.53	0	23,23,23	0.27	0
3	GOL	E	104	-	5,5,5	0.93	0	5,5,5	0.97	0
5	PEG	C	316	-	6,6,6	0.11	0	5,5,5	0.10	0
8	PG4	A	330	-	12,12,12	0.11	0	11,11,11	0.61	0
3	GOL	B	107	-	5,5,5	0.95	0	5,5,5	1.03	0

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
8	PG4	C	325	-	-	8/10/10/10	-
6	PE8	B	122	-	-	13/22/22/22	-
6	PE8	E	114	-	-	15/22/22/22	-
5	PEG	E	111	-	-	3/4/4/4	-
3	GOL	B	135	-	-	4/4/4/4	-
3	GOL	C	338	-	-	2/4/4/4	-
5	PEG	C	339	-	-	2/4/4/4	-
3	GOL	C	304	-	-	1/4/4/4	-
3	GOL	D	122	-	-	2/4/4/4	-
5	PEG	A	319	-	-	3/4/4/4	-
8	PG4	D	105	-	-	3/10/10/10	-
3	GOL	C	311	-	-	2/4/4/4	-
3	GOL	A	306	-	-	4/4/4/4	-
6	PE8	C	321	-	-	10/22/22/22	-
5	PEG	C	330	-	-	1/4/4/4	-
3	GOL	B	106	-	-	2/4/4/4	-
5	PEG	A	320	-	-	2/4/4/4	-
7	EDO	B	103	-	-	1/1/1/1	-
7	EDO	B	124	-	-	0/1/1/1	-
3	GOL	D	106	-	-	2/4/4/4	-
6	PE8	A	323	-	-	11/22/22/22	-
3	GOL	A	302	-	-	0/4/4/4	-
3	GOL	E	103	-	-	0/4/4/4	-
7	EDO	C	329	-	-	1/1/1/1	-
5	PEG	C	315	-	-	2/4/4/4	-
5	PEG	A	318	-	-	3/4/4/4	-
7	EDO	C	328	-	-	1/1/1/1	-
5	PEG	D	123	-	-	2/4/4/4	-
3	GOL	B	134	-	-	4/4/4/4	-
8	PG4	B	126	-	-	7/10/10/10	-
8	PG4	B	104	-	-	4/10/10/10	-
6	PE8	B	123	-	-	16/22/22/22	-
3	GOL	B	137	-	-	2/4/4/4	-
8	PG4	A	337	-	-	7/10/10/10	-
8	PG4	B	128	-	-	6/10/10/10	-
3	GOL	A	307	-	-	2/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	PEG	C	319	-	-	4/4/4/4	-
3	GOL	A	309	-	-	0/4/4/4	-
8	PG4	A	344	-	-	5/10/10/10	-
3	GOL	C	303	-	-	3/4/4/4	-
3	GOL	B	116	-	-	1/4/4/4	-
6	PE8	C	322	-	-	13/22/22/22	-
3	GOL	D	107	-	-	2/4/4/4	-
6	PE8	A	324	-	-	16/22/22/22	-
8	PG4	A	328	-	-	6/10/10/10	-
3	GOL	B	115	-	-	4/4/4/4	-
3	GOL	D	103	-	-	2/4/4/4	-
3	GOL	A	308	-	-	3/4/4/4	-
8	PG4	A	332	-	-	6/10/10/10	-
7	EDO	A	325	-	-	1/1/1/1	-
6	PE8	B	131	-	-	13/22/22/22	-
3	GOL	B	110	-	-	2/4/4/4	-
3	GOL	B	101	-	-	2/4/4/4	-
3	GOL	B	140	-	-	2/4/4/4	-
3	GOL	C	341	-	-	4/4/4/4	-
3	GOL	A	303	-	-	3/4/4/4	-
3	GOL	B	109	-	-	2/4/4/4	-
5	PEG	C	318	-	-	3/4/4/4	-
5	PEG	A	321	-	-	1/4/4/4	-
7	EDO	A	327	-	-	1/1/1/1	-
7	EDO	A	343	-	-	1/1/1/1	-
3	GOL	B	108	-	-	2/4/4/4	-
3	GOL	A	313	-	-	0/4/4/4	-
3	GOL	B	136	-	-	2/4/4/4	-
8	PG4	D	127	-	-	8/10/10/10	-
3	GOL	B	111	-	-	3/4/4/4	-
3	GOL	B	132	-	-	4/4/4/4	-
5	PEG	A	335	-	-	3/4/4/4	-
5	PEG	C	340	-	-	4/4/4/4	-
6	PE8	A	322	-	-	13/22/22/22	-
3	GOL	C	305	-	-	4/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	PG4	A	329	-	-	4/10/10/10	-
8	PG4	B	129	4	-	7/10/10/10	-
3	GOL	A	345	-	-	4/4/4/4	-
8	PG4	C	326	-	-	7/10/10/10	-
8	PG4	A	331	-	-	8/10/10/10	-
8	PG4	E	101	-	-	8/10/10/10	-
3	GOL	A	310	-	-	2/4/4/4	-
5	PEG	B	120	-	-	1/4/4/4	-
5	PEG	A	342	-	-	3/4/4/4	-
3	GOL	A	312	-	-	4/4/4/4	-
5	PEG	C	320	-	-	2/4/4/4	-
3	GOL	B	130	-	-	4/4/4/4	-
3	GOL	E	102	-	-	2/4/4/4	-
3	GOL	C	308	-	-	4/4/4/4	-
8	PG4	D	117	-	-	5/10/10/10	-
8	PG4	C	332	-	-	3/10/10/10	-
6	PE8	E	112	-	-	14/22/22/22	-
8	PG4	D	121	-	-	6/10/10/10	-
3	GOL	C	342	-	-	2/4/4/4	-
5	PEG	C	317	-	-	4/4/4/4	-
3	GOL	A	311	-	-	0/4/4/4	-
6	PE8	E	113	-	-	16/22/22/22	-
8	PG4	D	119	-	-	6/10/10/10	-
7	EDO	A	326	-	-	1/1/1/1	-
3	GOL	A	340	-	-	2/4/4/4	-
8	PG4	C	327	-	-	6/10/10/10	-
3	GOL	C	306	-	-	4/4/4/4	-
3	GOL	C	331	-	-	2/4/4/4	-
5	PEG	B	139	-	-	0/4/4/4	-
5	PEG	E	109	-	-	2/4/4/4	-
8	PG4	D	116	-	-	5/10/10/10	-
8	PG4	A	334	-	-	6/10/10/10	-
5	PEG	E	110	-	-	3/4/4/4	-
3	GOL	A	301	-	-	2/4/4/4	-
5	PEG	D	115	-	-	2/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	PG4	C	337	-	-	3/10/10/10	-
3	GOL	A	314	-	-	4/4/4/4	-
5	PEG	E	108	-	-	2/4/4/4	-
3	GOL	D	124	-	-	2/4/4/4	-
5	PEG	A	341	-	-	3/4/4/4	-
3	GOL	B	102	-	-	2/4/4/4	-
3	GOL	C	307	-	-	4/4/4/4	-
3	GOL	C	309	-	-	2/4/4/4	-
3	GOL	B	112	-	-	4/4/4/4	-
3	GOL	A	346	-	-	0/4/4/4	-
3	GOL	A	304	-	-	2/4/4/4	-
7	EDO	A	336	-	-	1/1/1/1	-
8	PG4	A	338	-	-	6/10/10/10	-
7	EDO	C	334	-	-	1/1/1/1	-
8	PG4	B	125	-	-	5/10/10/10	-
8	PG4	D	118	-	-	4/10/10/10	-
6	PE8	B	105	-	-	15/22/22/22	-
7	EDO	C	323	-	-	1/1/1/1	-
8	PG4	D	101	-	-	4/10/10/10	-
3	GOL	C	310	-	-	2/4/4/4	-
8	PG4	B	127	-	-	5/10/10/10	-
8	PG4	A	333	-	-	5/10/10/10	-
3	GOL	B	113	-	-	0/4/4/4	-
8	PG4	C	324	-	-	7/10/10/10	-
3	GOL	B	138	-	-	4/4/4/4	-
3	GOL	B	114	-	-	2/4/4/4	-
3	GOL	D	109	-	-	4/4/4/4	-
3	GOL	A	305	-	-	4/4/4/4	-
3	GOL	D	110	-	-	2/4/4/4	-
3	GOL	C	301	-	-	2/4/4/4	-
3	GOL	D	108	-	-	3/4/4/4	-
3	GOL	C	302	-	-	4/4/4/4	-
6	PE8	B	121	-	-	13/22/22/22	-
3	GOL	E	104	-	-	2/4/4/4	-
5	PEG	C	316	-	-	2/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	PG4	A	330	-	-	6/10/10/10	-
3	GOL	B	107	-	-	3/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	A	337	PG4	C5-O3-C4	-2.06	104.35	113.29

There are no chirality outliers.

5 of 577 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	301	GOL	C1-C2-C3-O3
3	A	303	GOL	O1-C1-C2-O2
3	A	303	GOL	O1-C1-C2-C3
3	A	305	GOL	C1-C2-C3-O3
3	A	306	GOL	O1-C1-C2-C3

There are no ring outliers.

40 monomers are involved in 50 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	E	114	PE8	2	0
8	D	105	PG4	2	0
6	C	321	PE8	4	0
5	A	320	PEG	1	0
5	D	123	PEG	1	0
8	B	126	PG4	1	0
6	B	123	PE8	2	0
8	A	337	PG4	1	0
8	A	344	PG4	1	0
3	C	303	GOL	1	0
3	B	116	GOL	1	0
6	A	324	PE8	1	0
8	A	328	PG4	1	0
3	D	103	GOL	1	0
6	B	131	PE8	2	0
3	B	109	GOL	1	0
5	A	335	PEG	2	0

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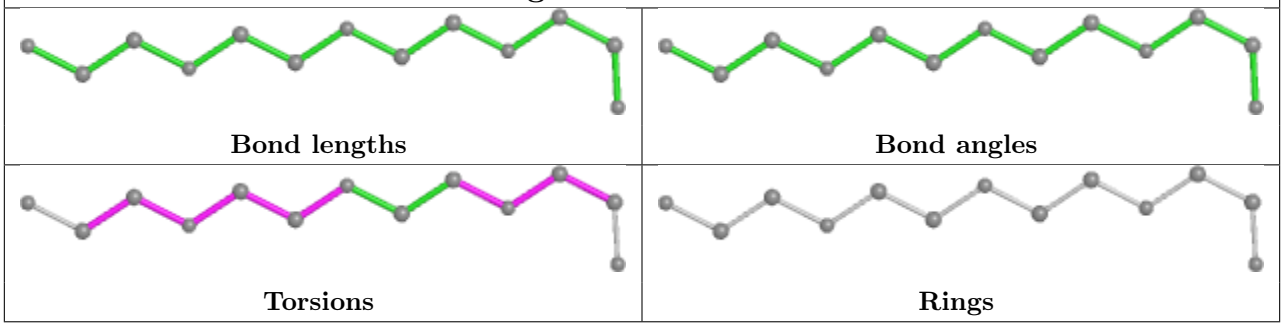
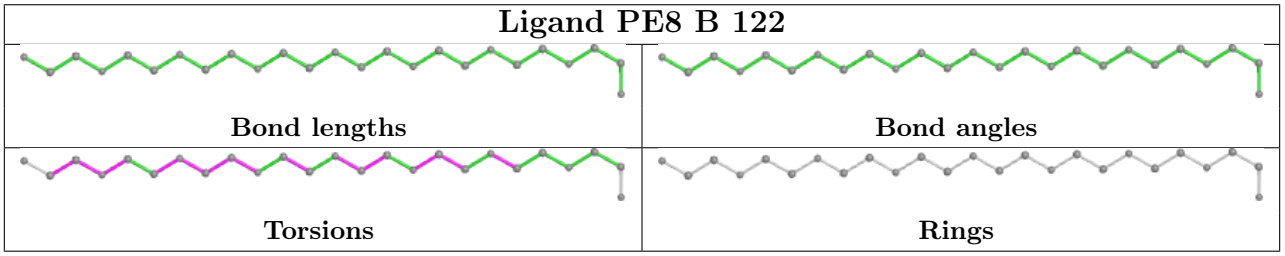
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	322	PE8	4	0
8	A	329	PG4	1	0
8	B	129	PG4	1	0
3	A	345	GOL	1	0
8	C	326	PG4	1	0
8	A	331	PG4	1	0
8	C	332	PG4	1	0
3	C	342	GOL	2	0
6	E	113	PE8	3	0
5	E	109	PEG	1	0
8	D	116	PG4	1	0
8	A	334	PG4	1	0
5	D	115	PEG	1	0
8	C	337	PG4	3	0
3	D	124	GOL	1	0
3	A	346	GOL	1	0
8	B	125	PG4	2	0
8	D	118	PG4	1	0
6	B	105	PE8	3	0
8	C	324	PG4	3	0
3	D	110	GOL	1	0
3	E	104	GOL	1	0
8	A	330	PG4	4	0

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

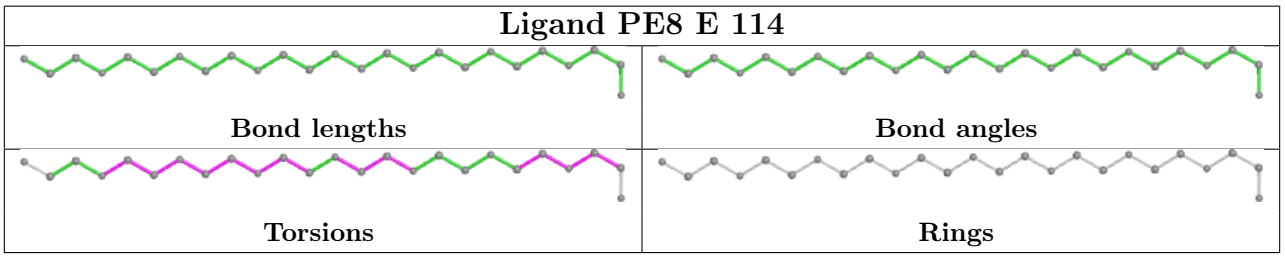
Ligand PG4 C 325



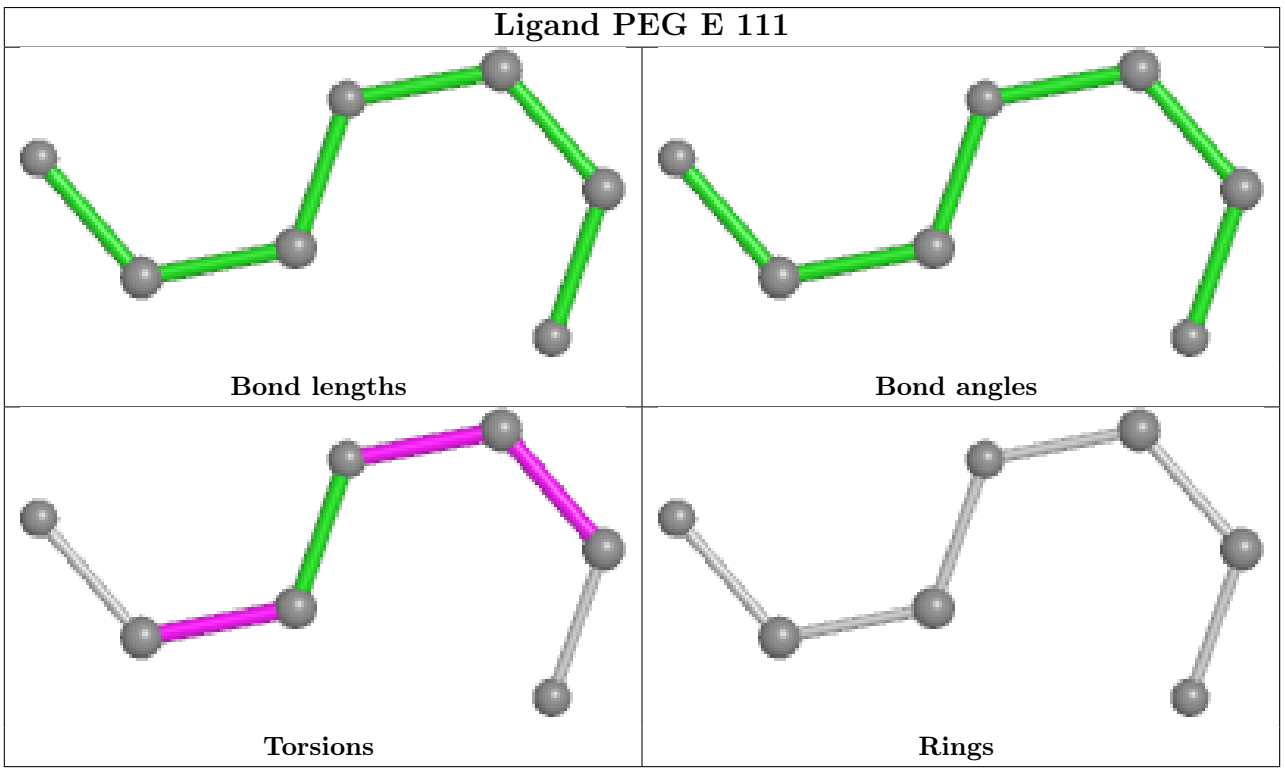
Ligand PE8 B 122



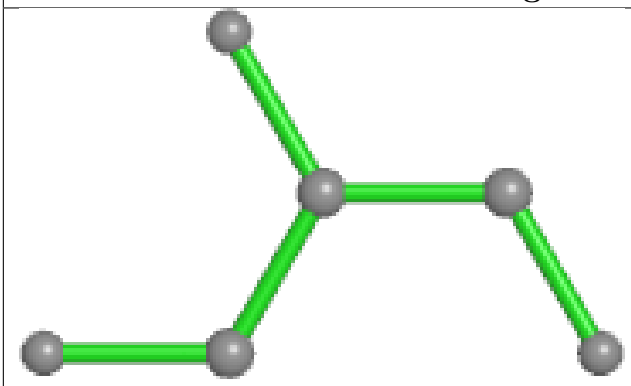
Ligand PE8 E 114



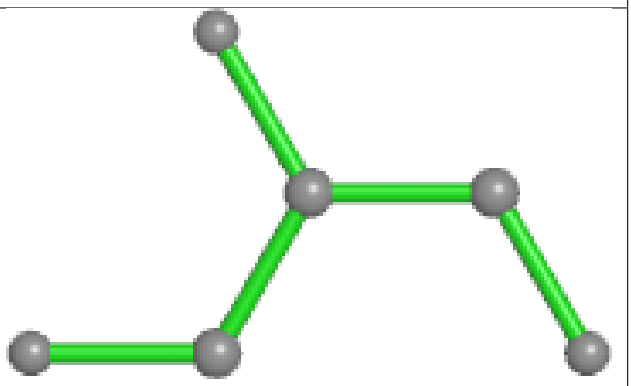
Ligand PEG E 111



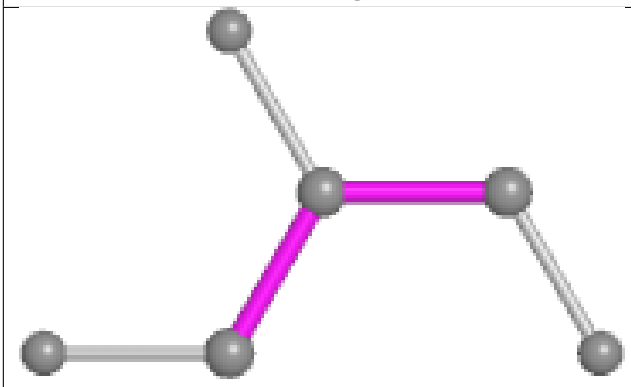
Ligand GOL B 135



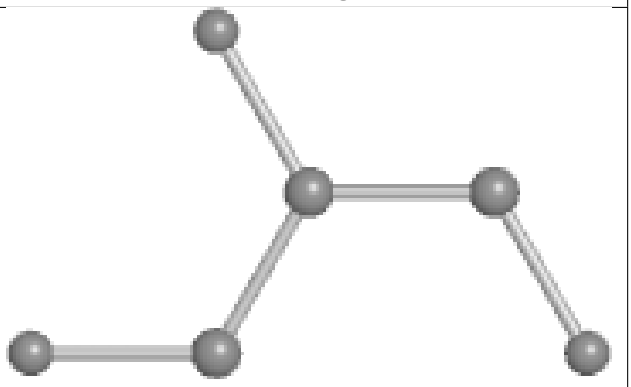
Bond lengths



Bond angles

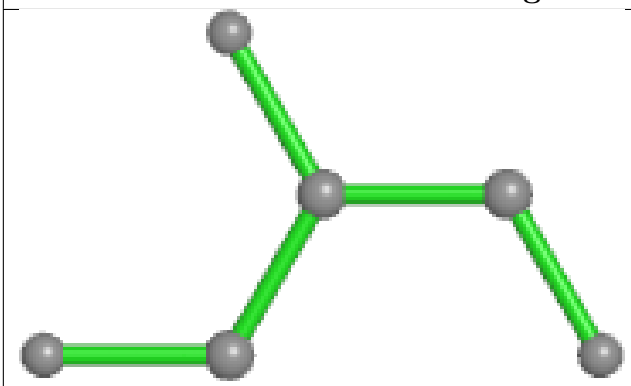


Torsions

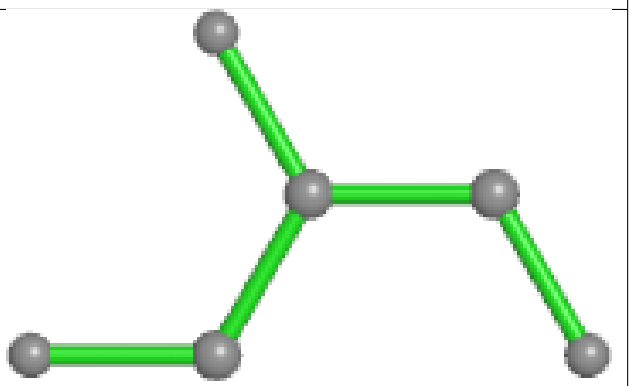


Rings

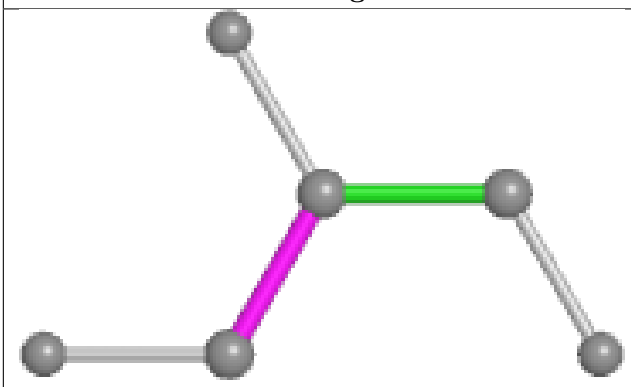
Ligand GOL C 338



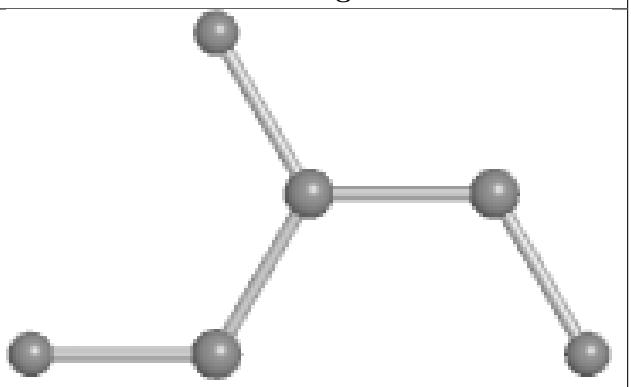
Bond lengths



Bond angles

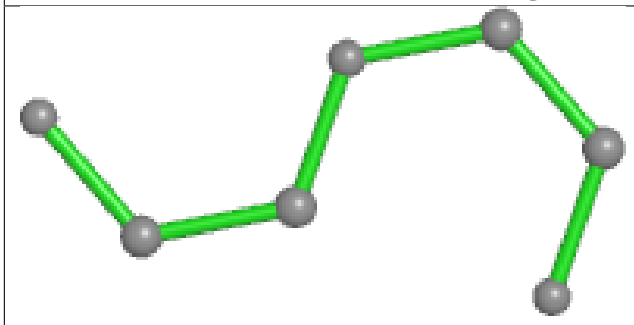


Torsions

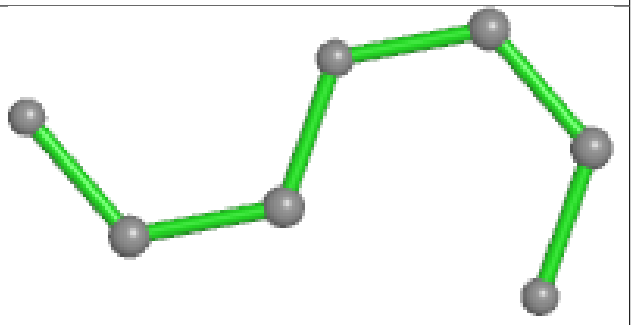


Rings

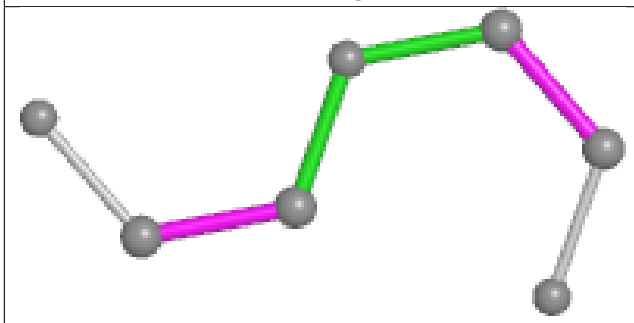
Ligand PEG C 339



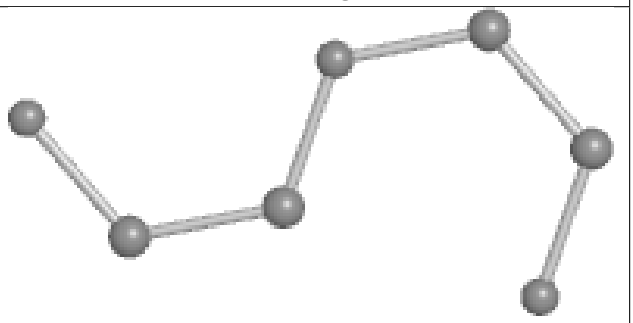
Bond lengths



Bond angles

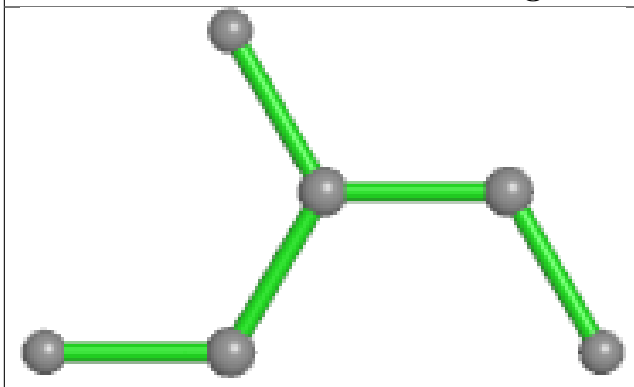


Torsions

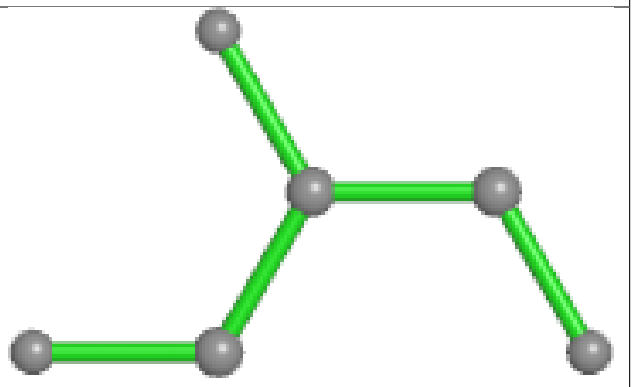


Rings

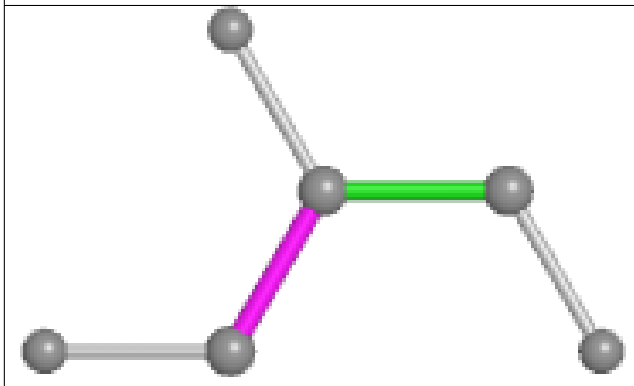
Ligand GOL C 304



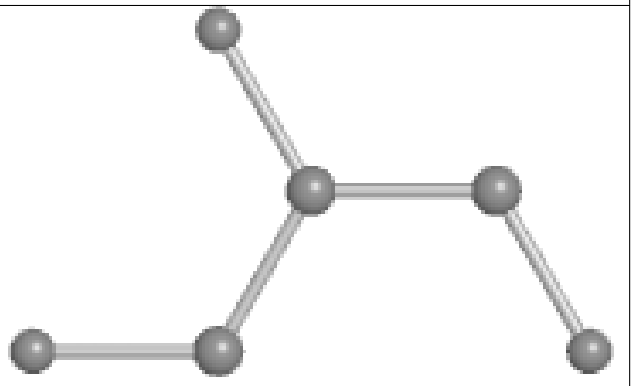
Bond lengths



Bond angles

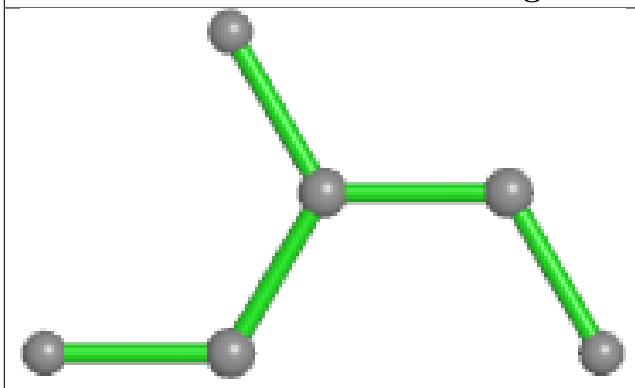


Torsions

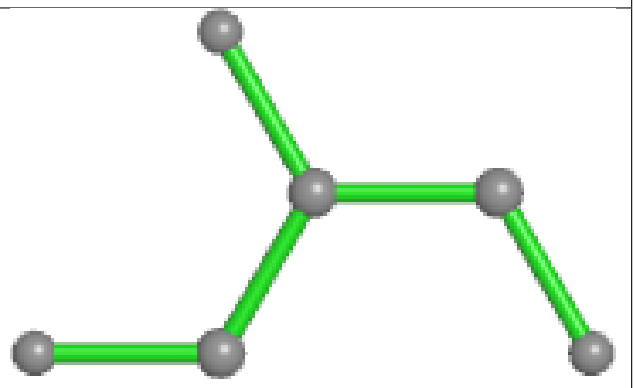


Rings

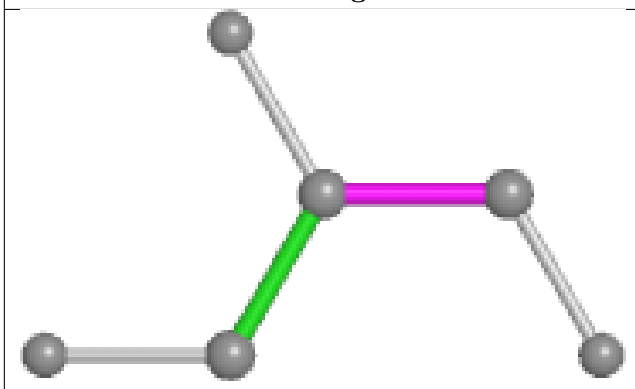
Ligand GOL D 122



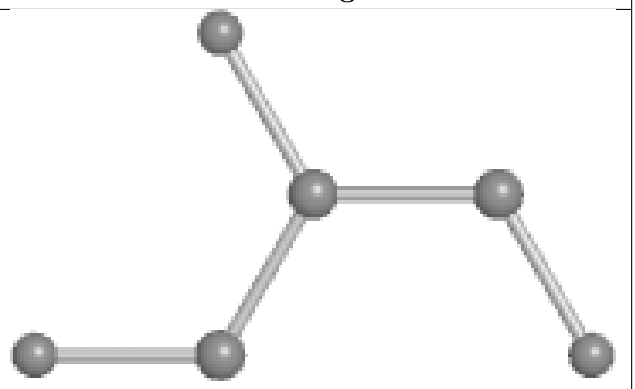
Bond lengths



Bond angles

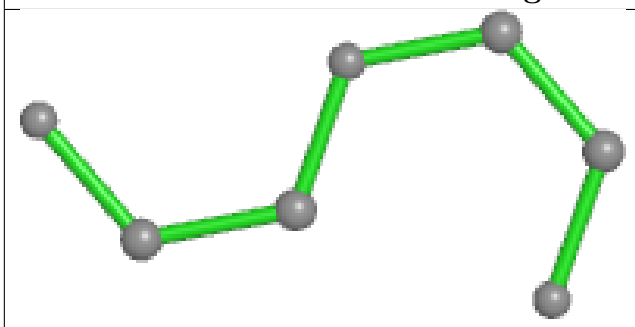


Torsions

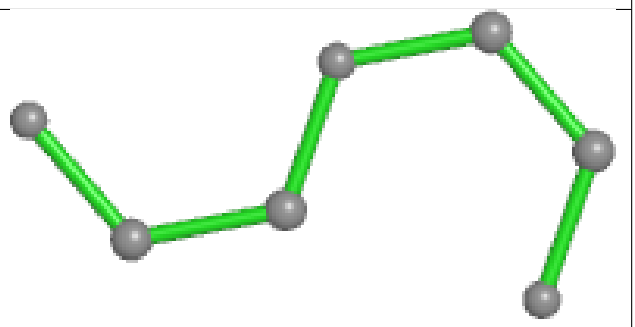


Rings

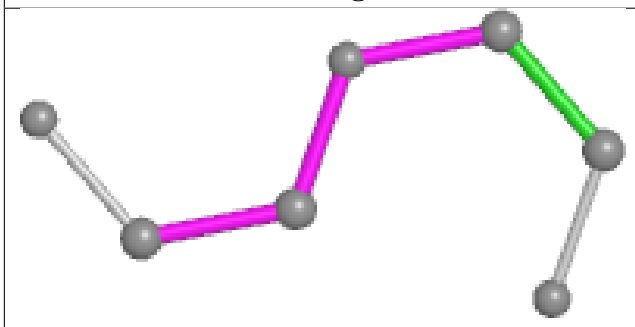
Ligand PEG A 319



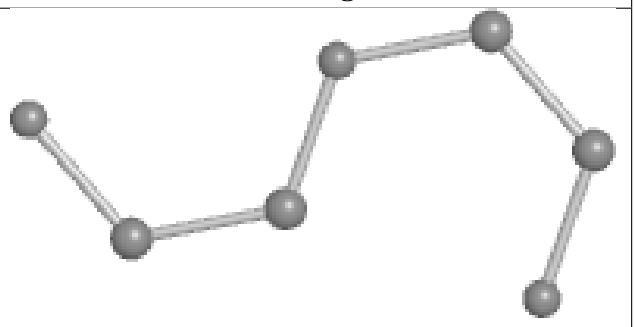
Bond lengths



Bond angles

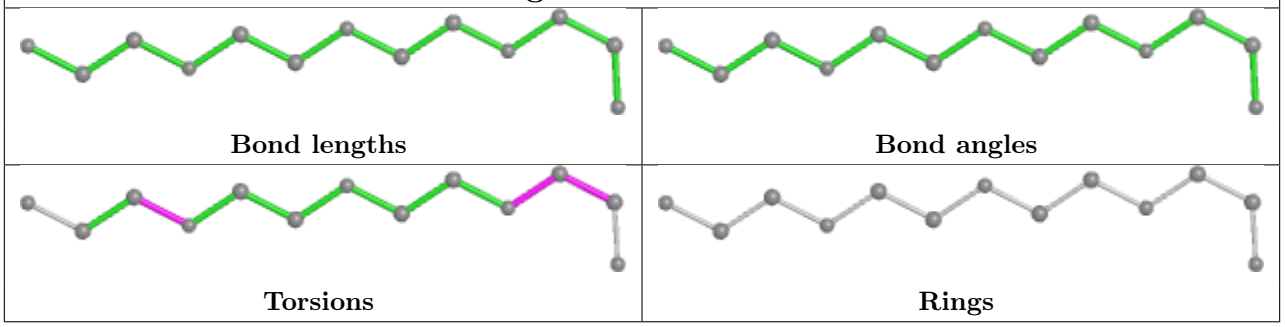


Torsions

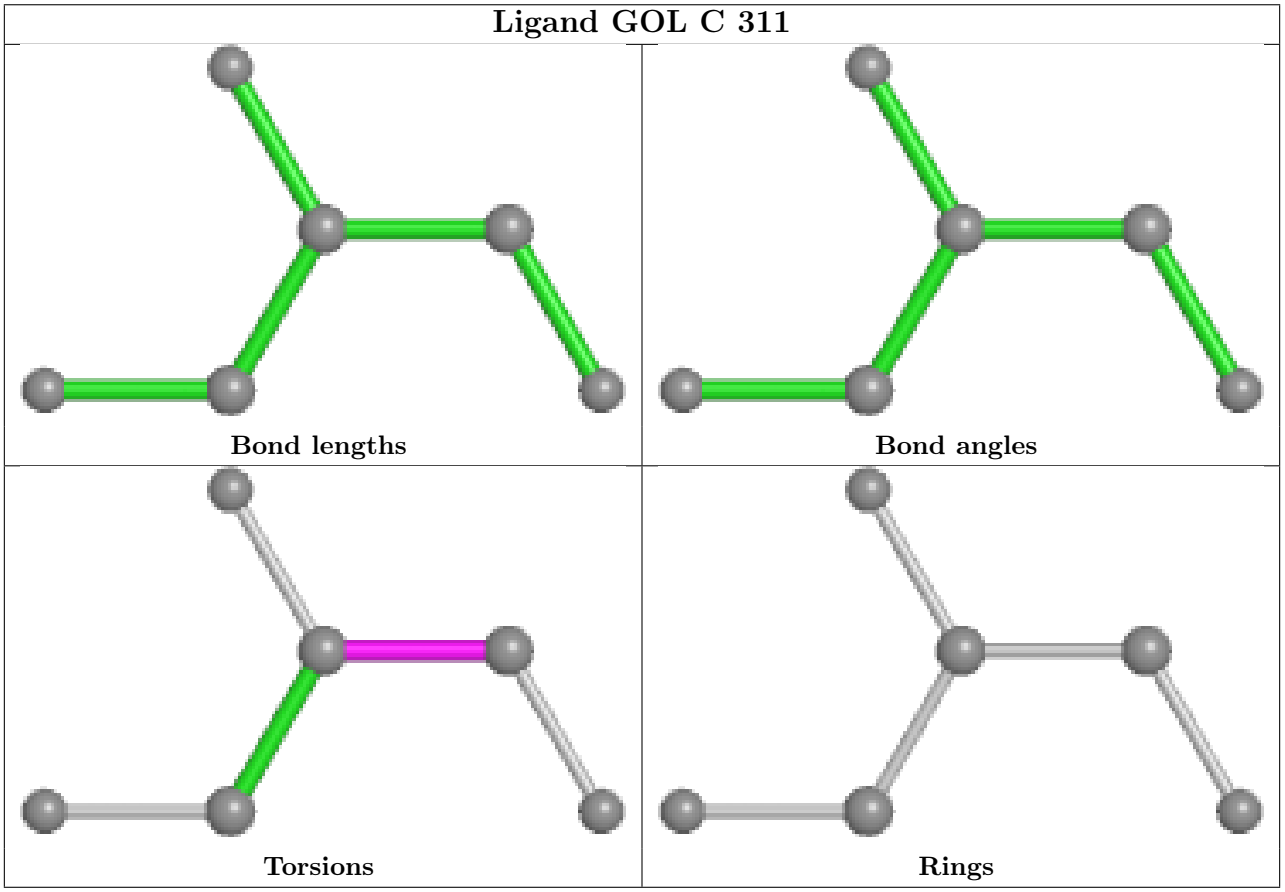


Rings

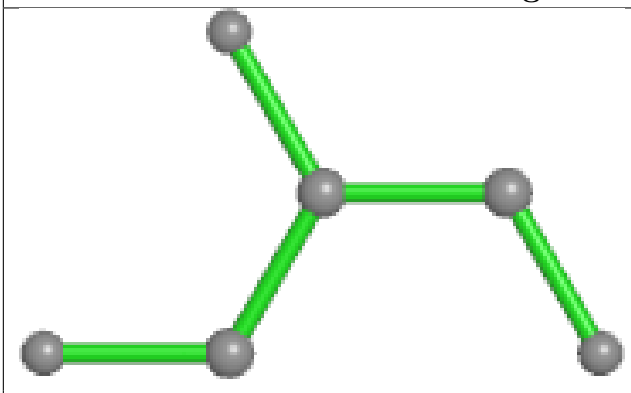
Ligand PG4 D 105



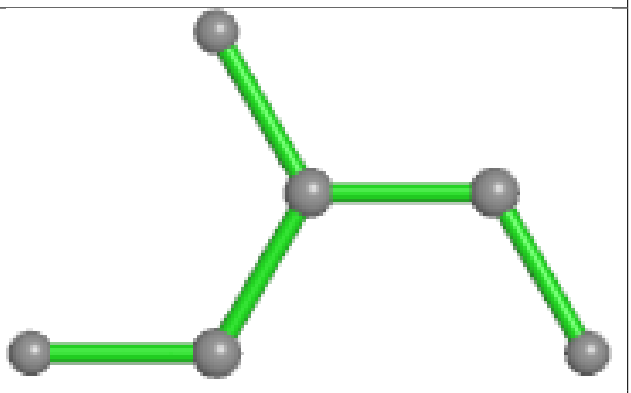
Ligand GOL C 311



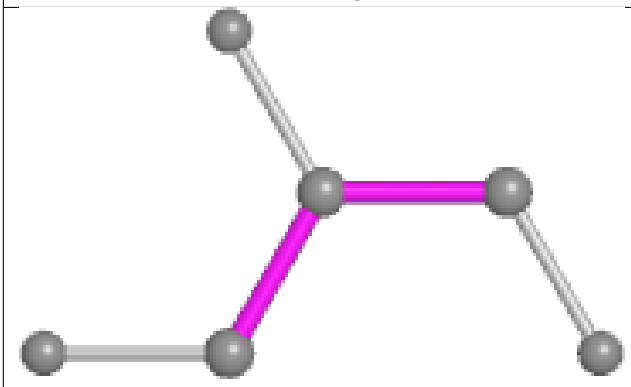
Ligand GOL A 306



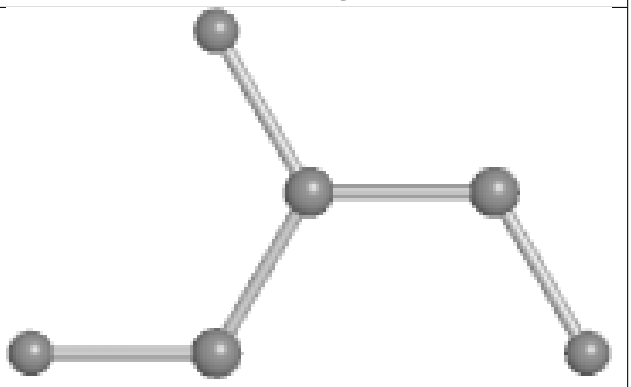
Bond lengths



Bond angles

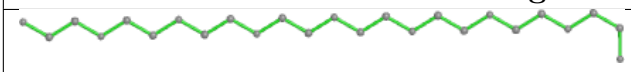


Torsions



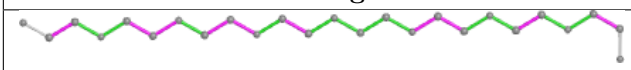
Rings

Ligand PE8 C 321

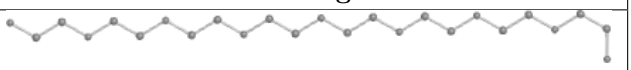


Bond lengths

Bond angles

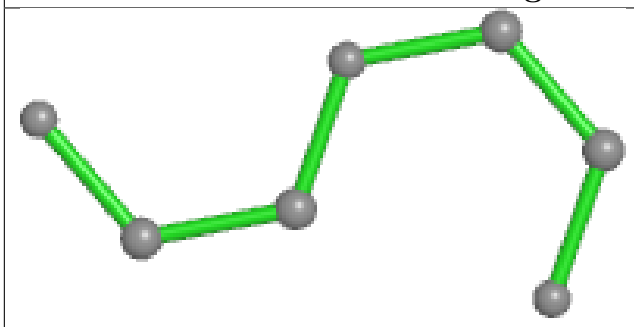


Torsions

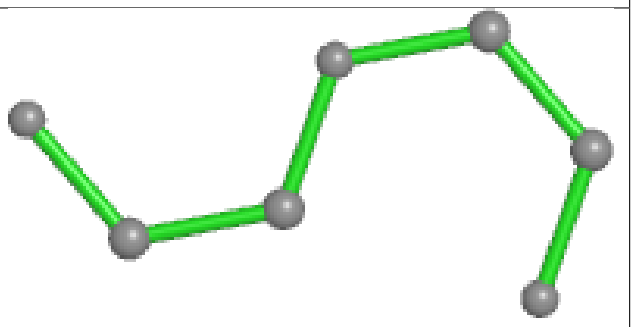


Rings

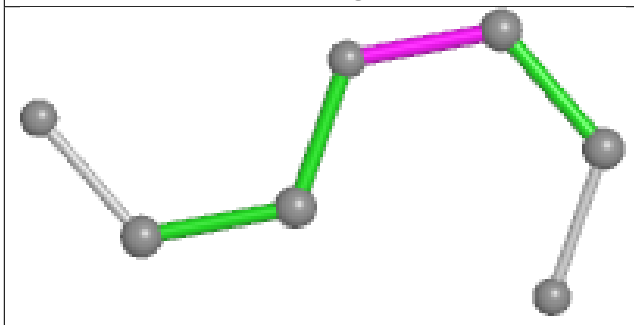
Ligand PEG C 330



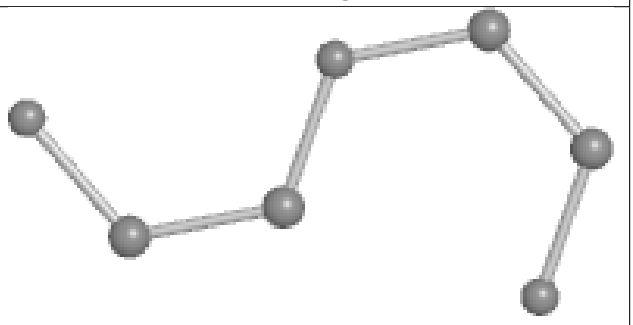
Bond lengths



Bond angles

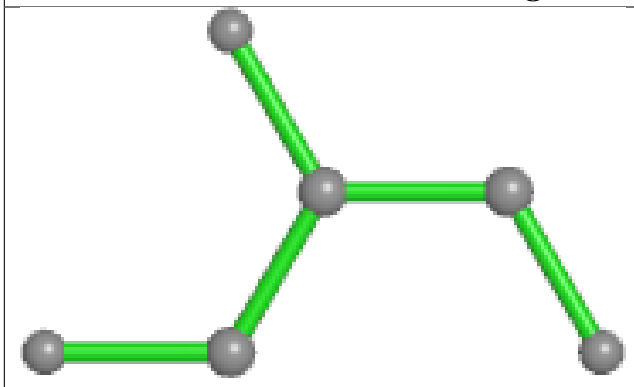


Torsions

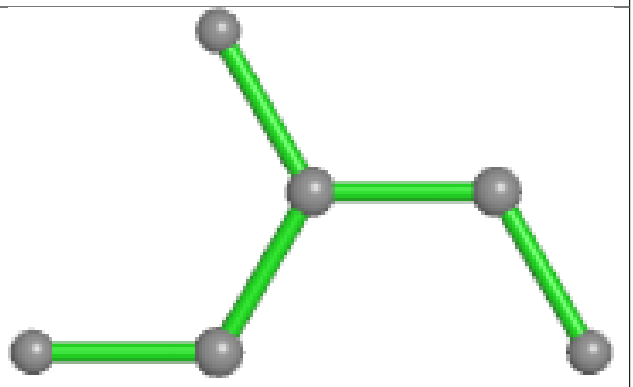


Rings

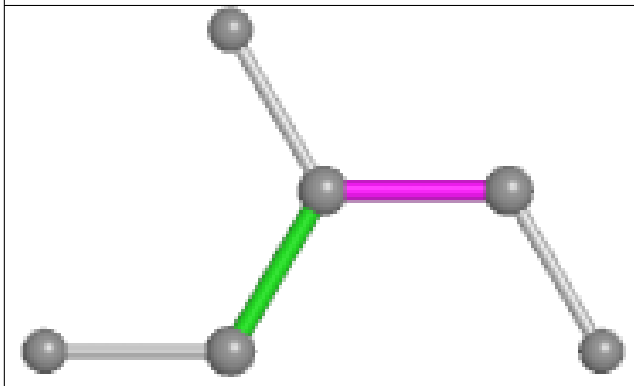
Ligand GOL B 106



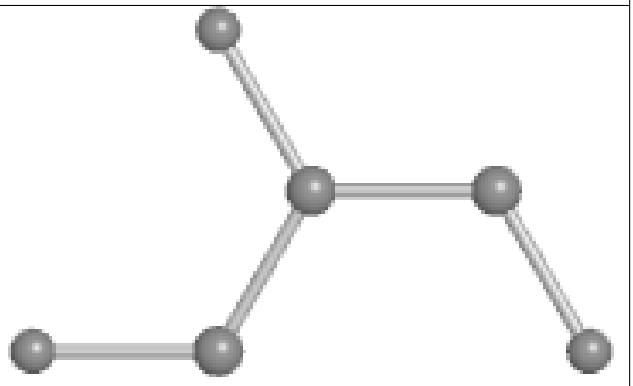
Bond lengths



Bond angles

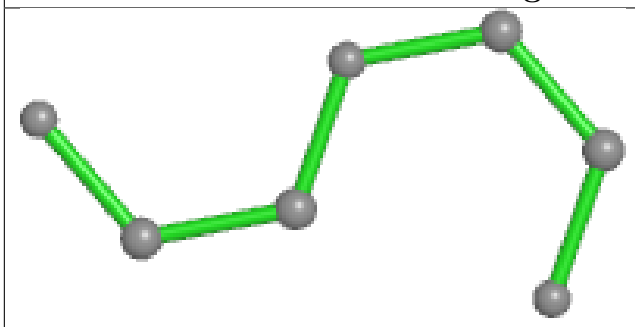


Torsions

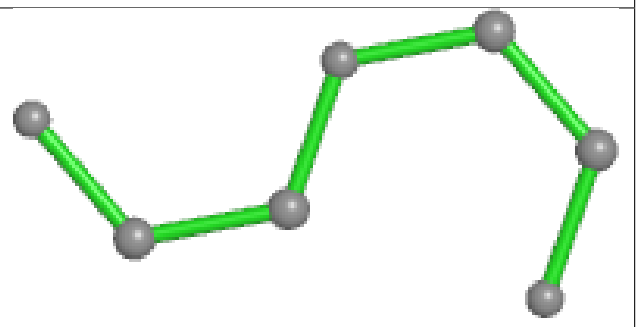


Rings

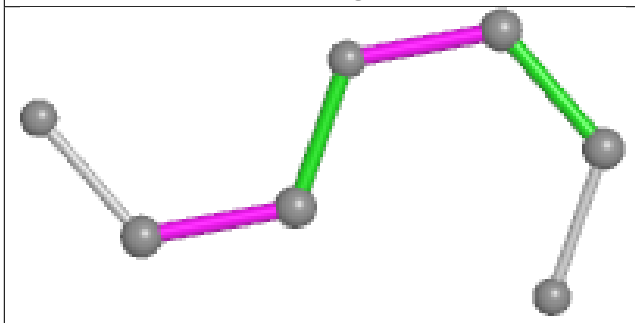
Ligand PEG A 320



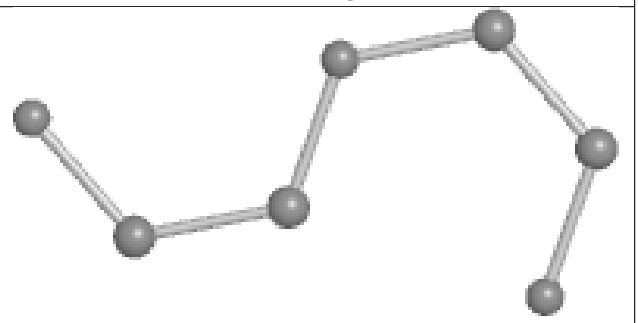
Bond lengths



Bond angles

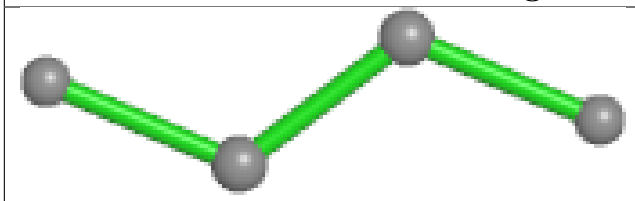


Torsions

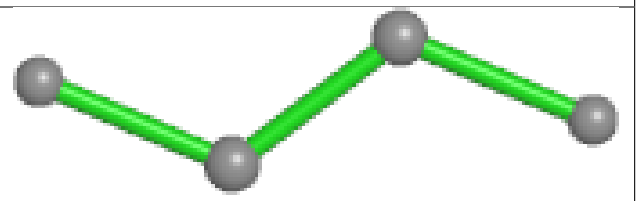


Rings

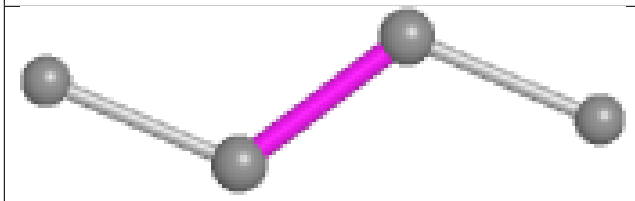
Ligand EDO B 103



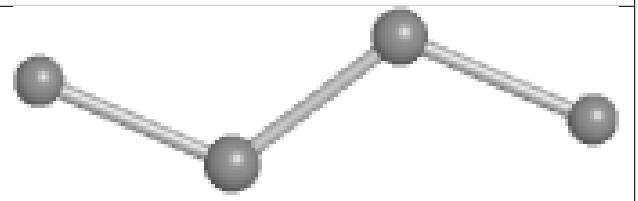
Bond lengths



Bond angles

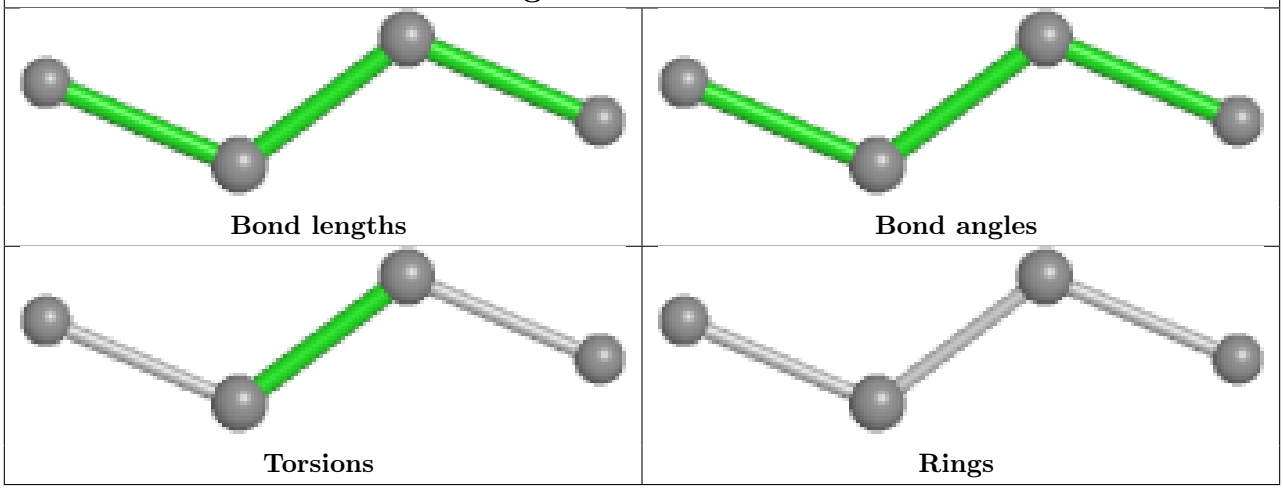


Torsions

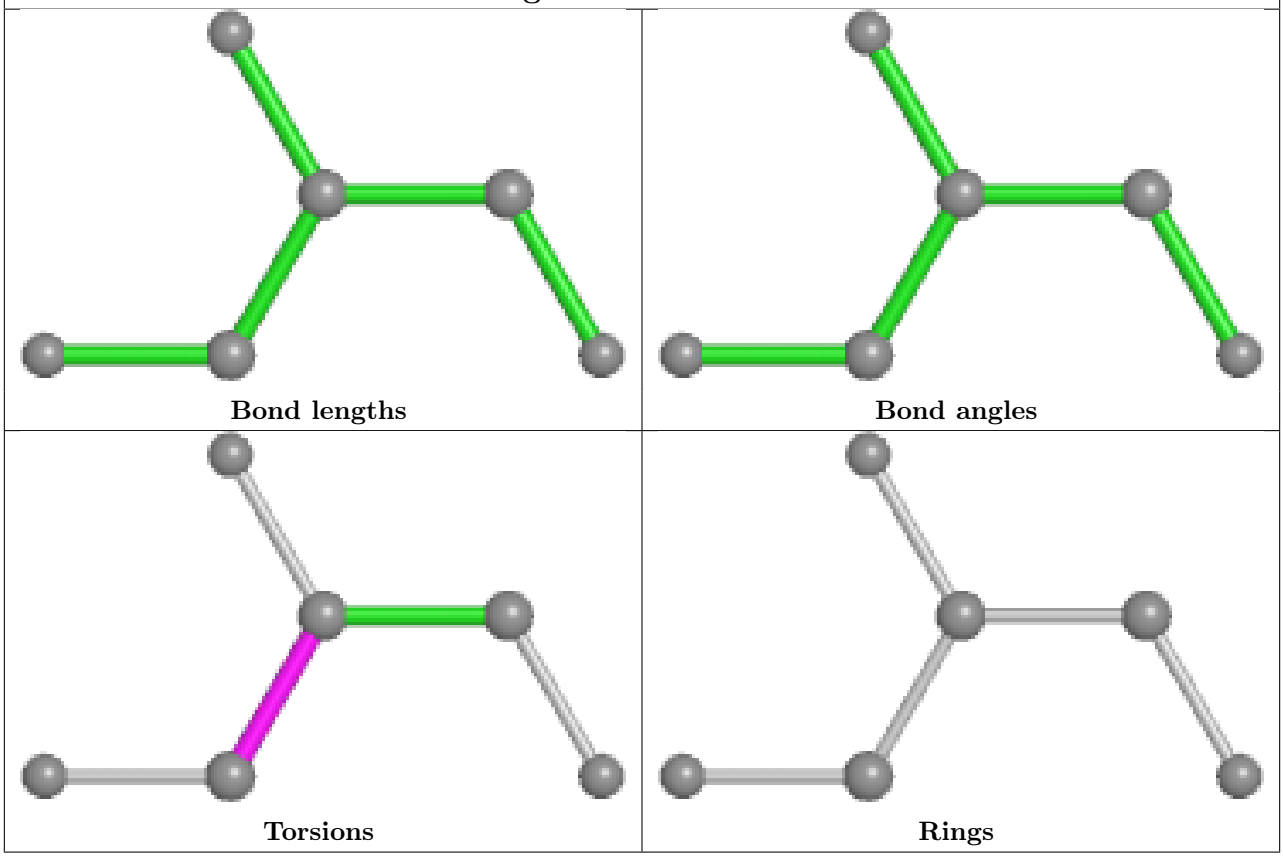


Rings

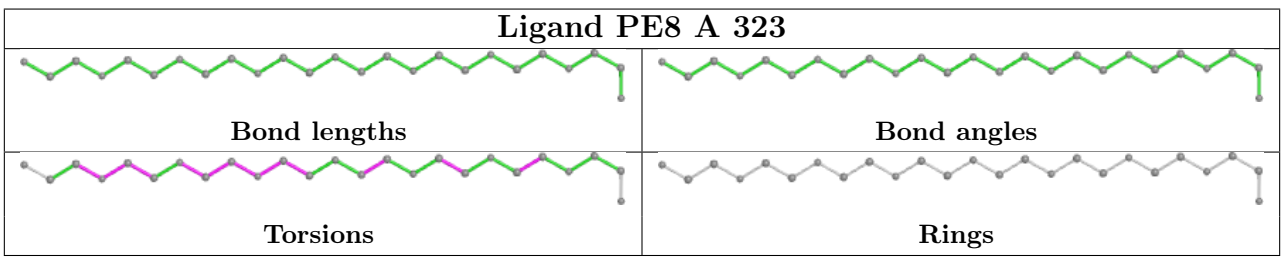
Ligand EDO B 124



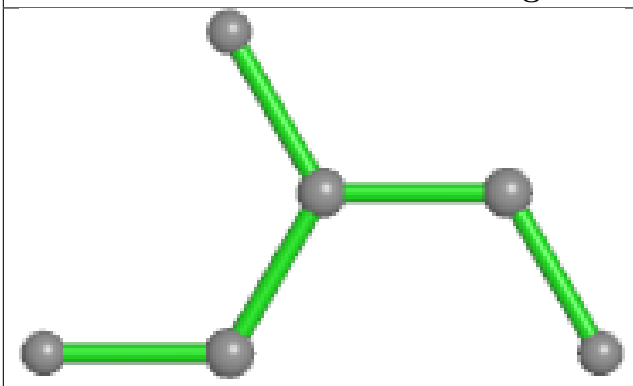
Ligand GOL D 106



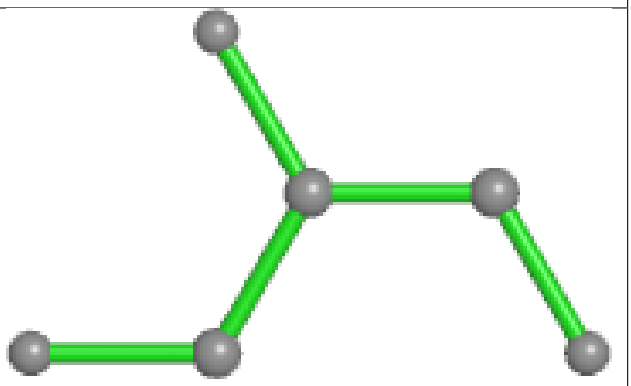
Ligand PE8 A 323



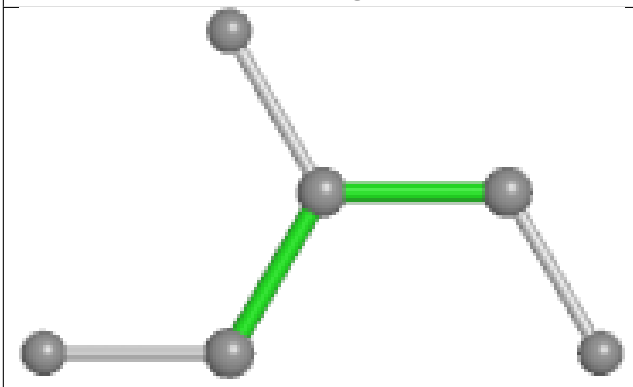
Ligand GOL A 302



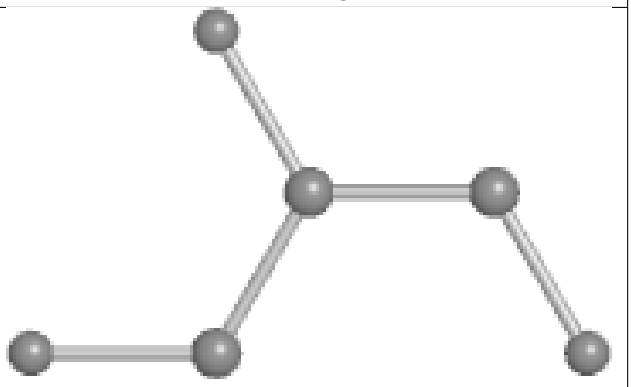
Bond lengths



Bond angles

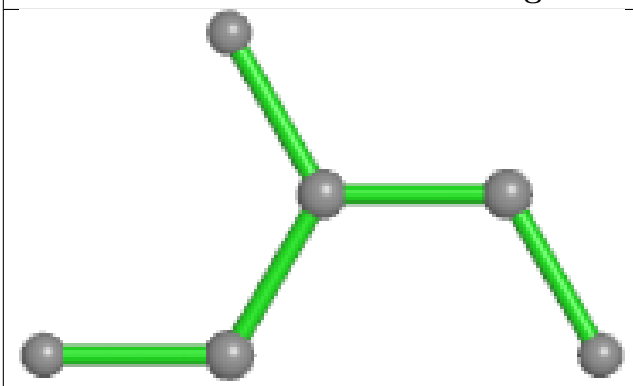


Torsions

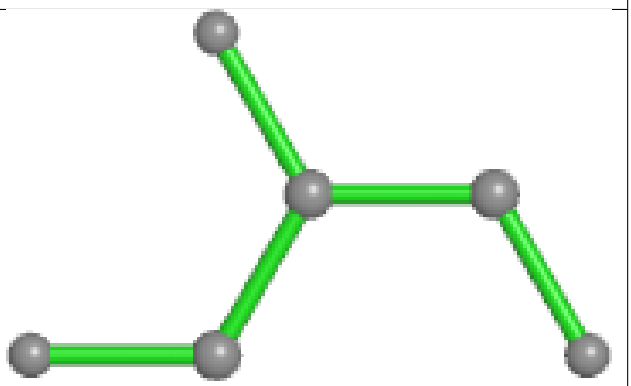


Rings

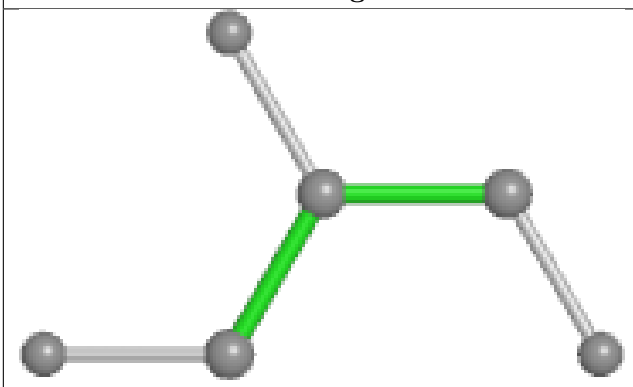
Ligand GOL E 103



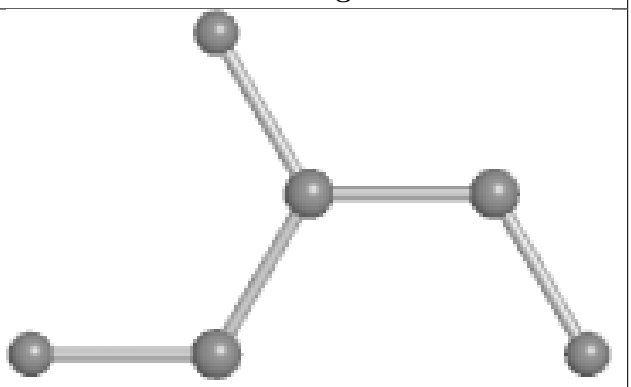
Bond lengths



Bond angles

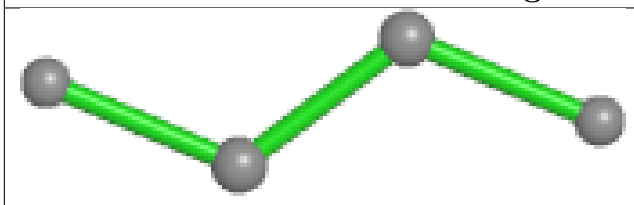


Torsions

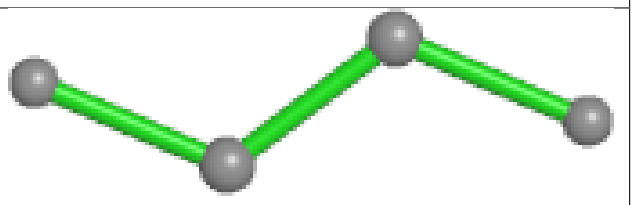


Rings

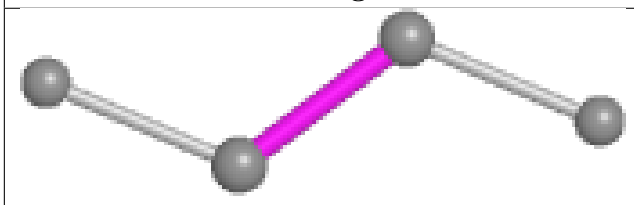
Ligand EDO C 329



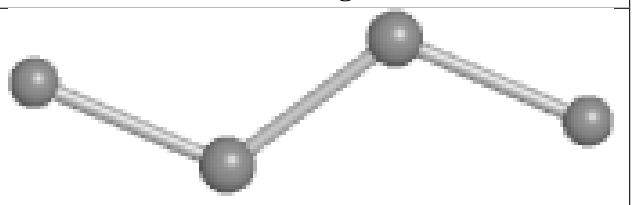
Bond lengths



Bond angles

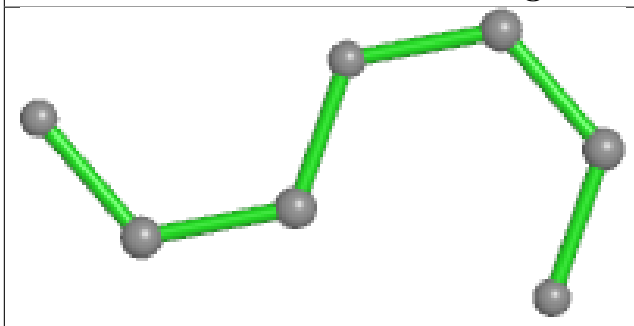


Torsions

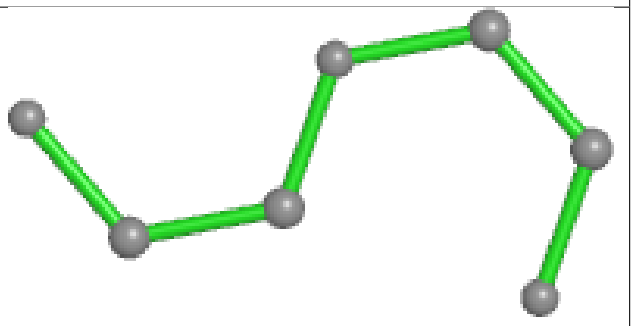


Rings

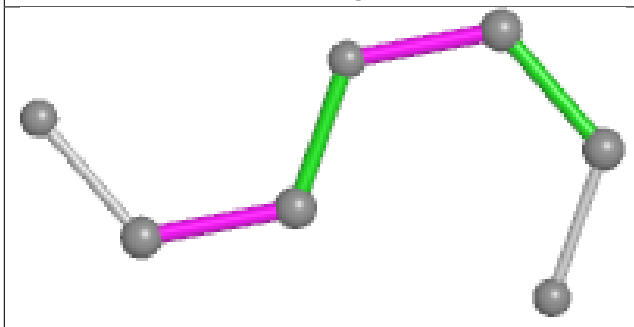
Ligand PEG C 315



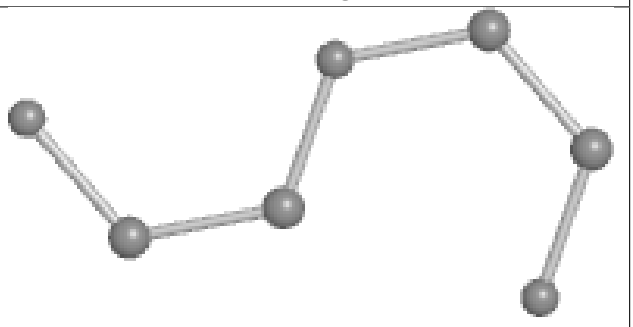
Bond lengths



Bond angles

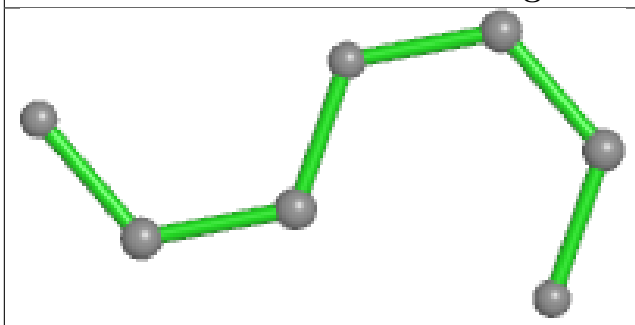


Torsions

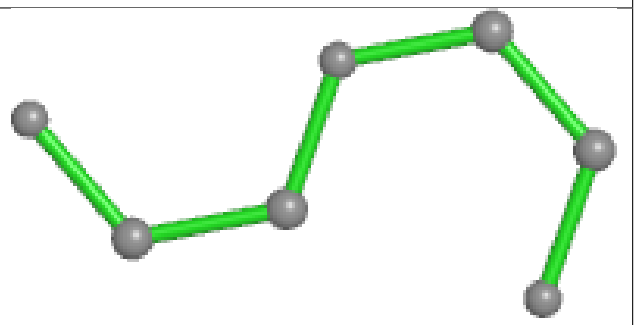


Rings

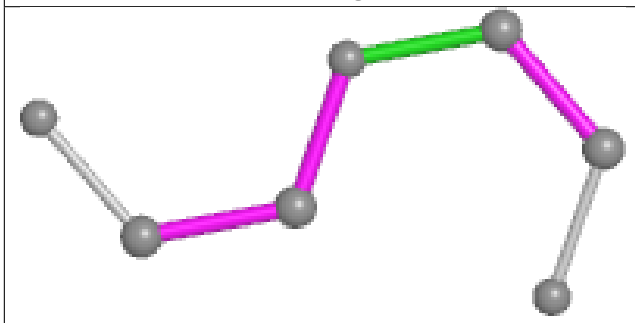
Ligand PEG A 318



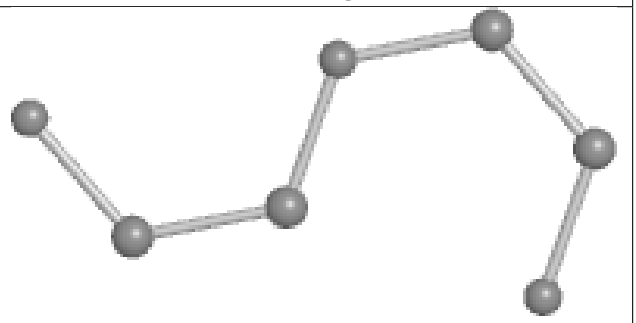
Bond lengths



Bond angles

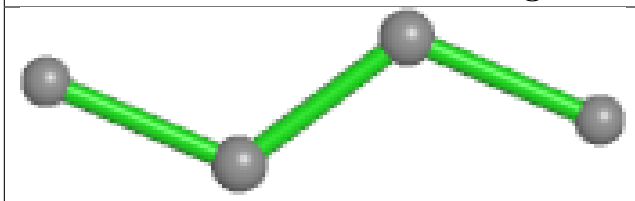


Torsions

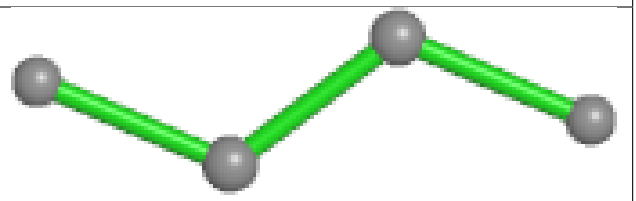


Rings

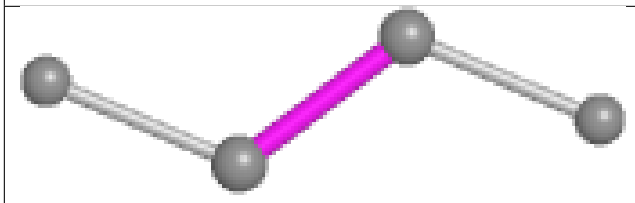
Ligand EDO C 328



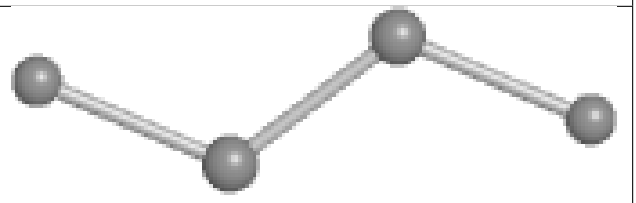
Bond lengths



Bond angles

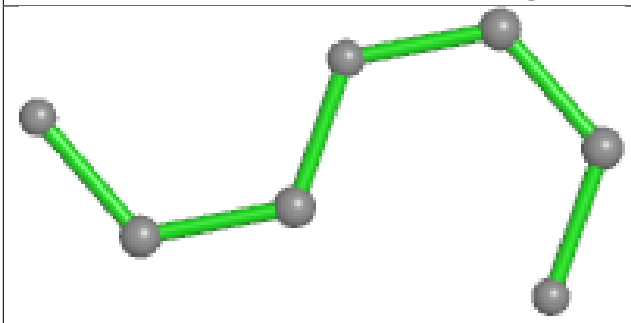


Torsions

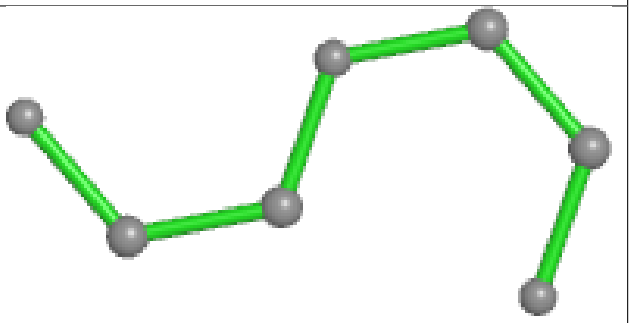


Rings

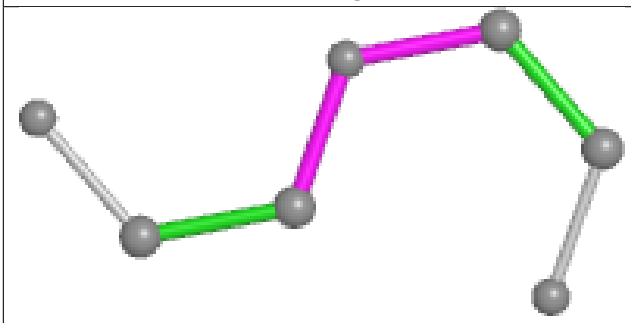
Ligand PEG D 123



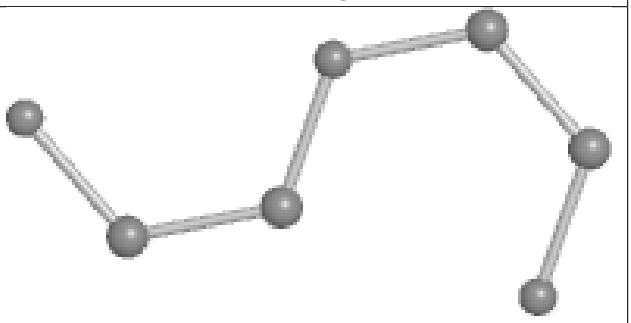
Bond lengths



Bond angles

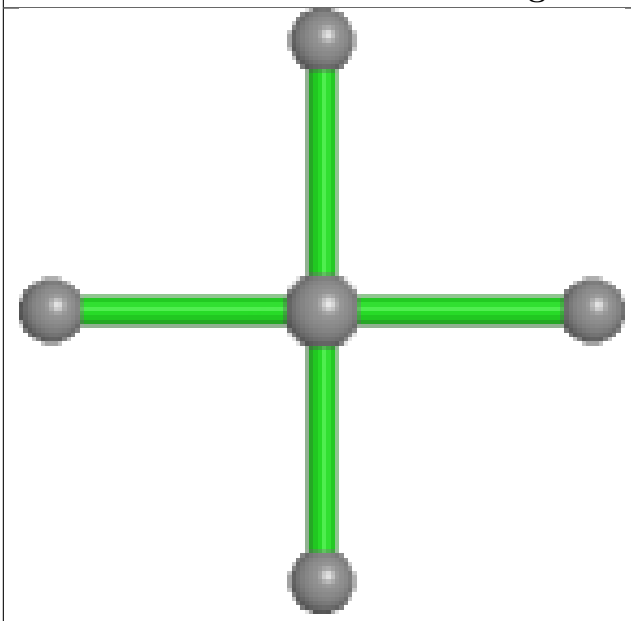


Torsions

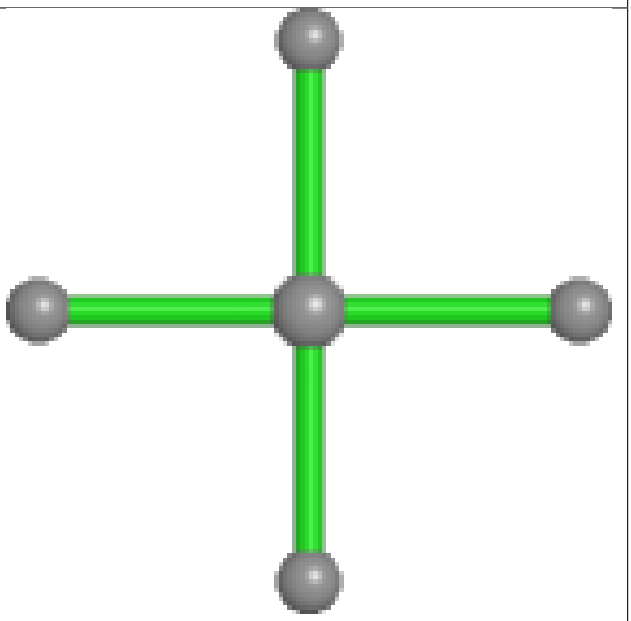


Rings

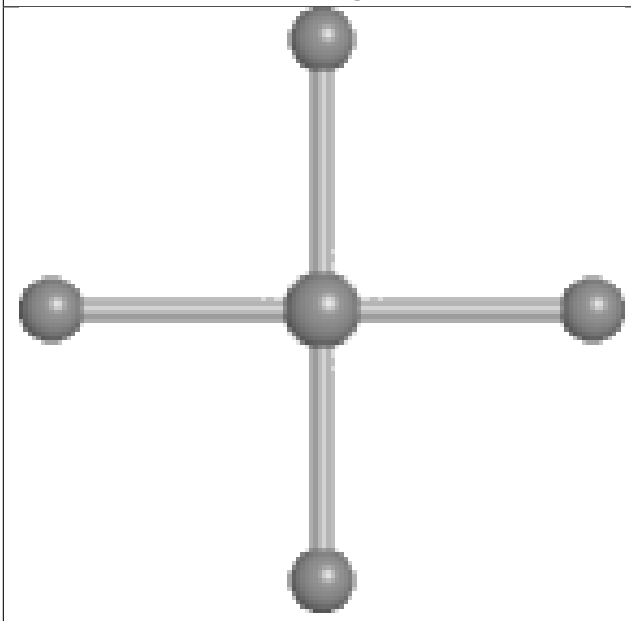
Ligand SO4 D 113



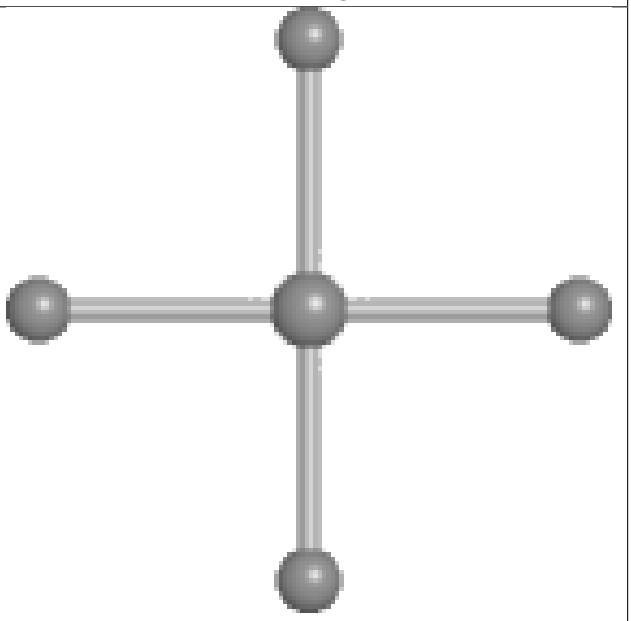
Bond lengths



Bond angles

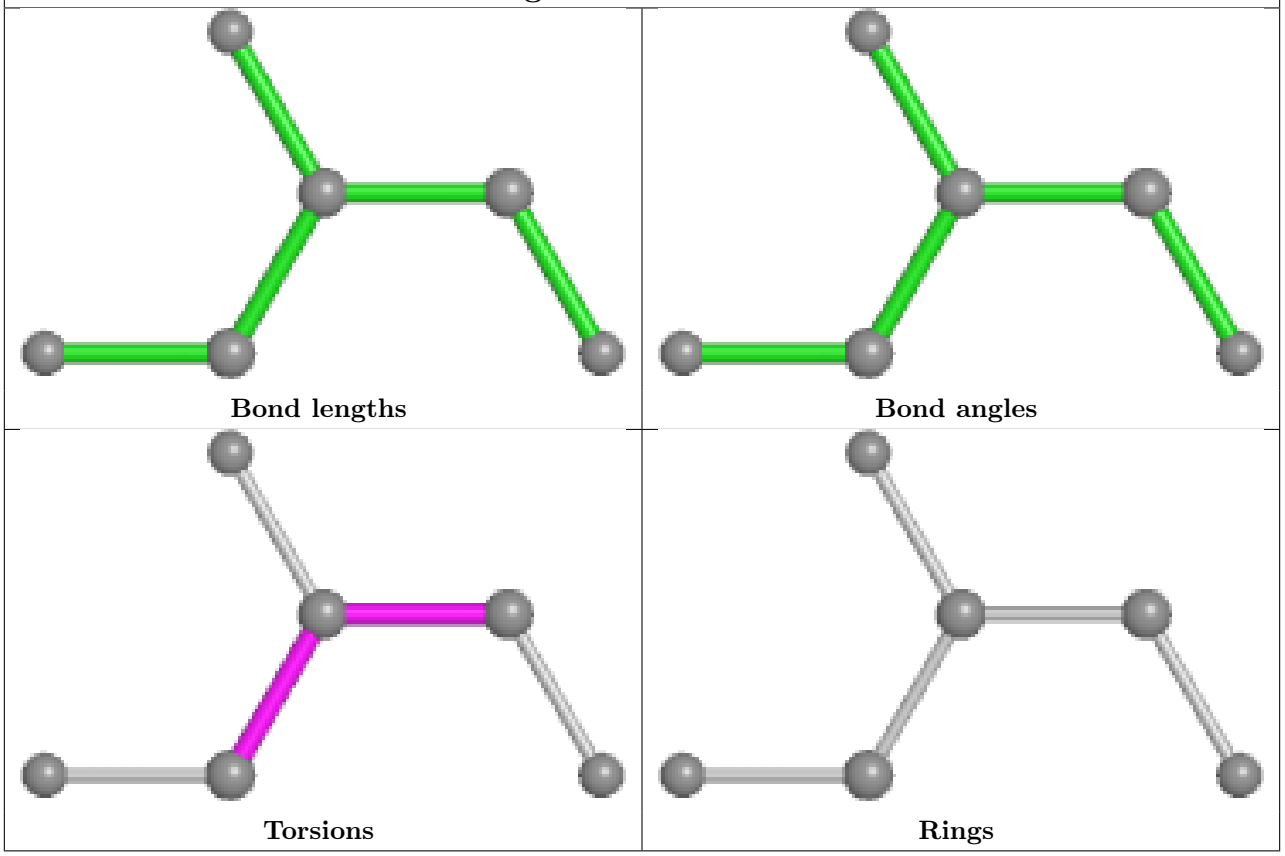


Torsions

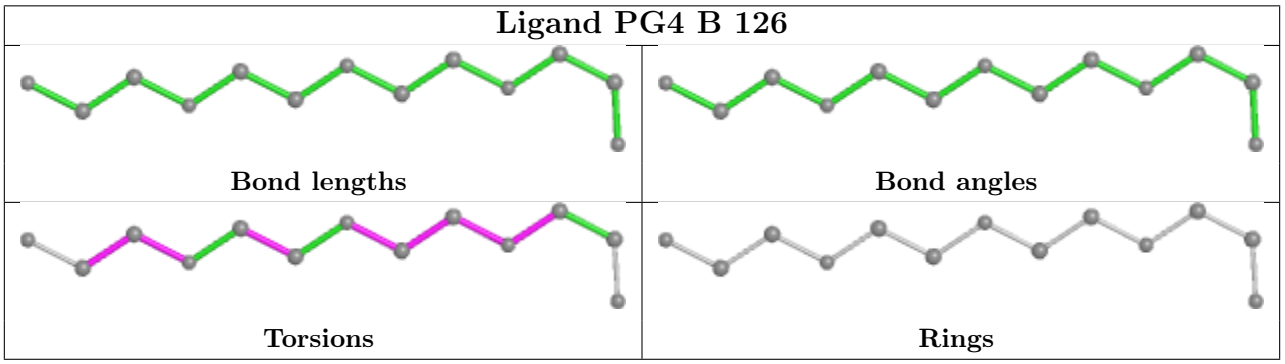


Rings

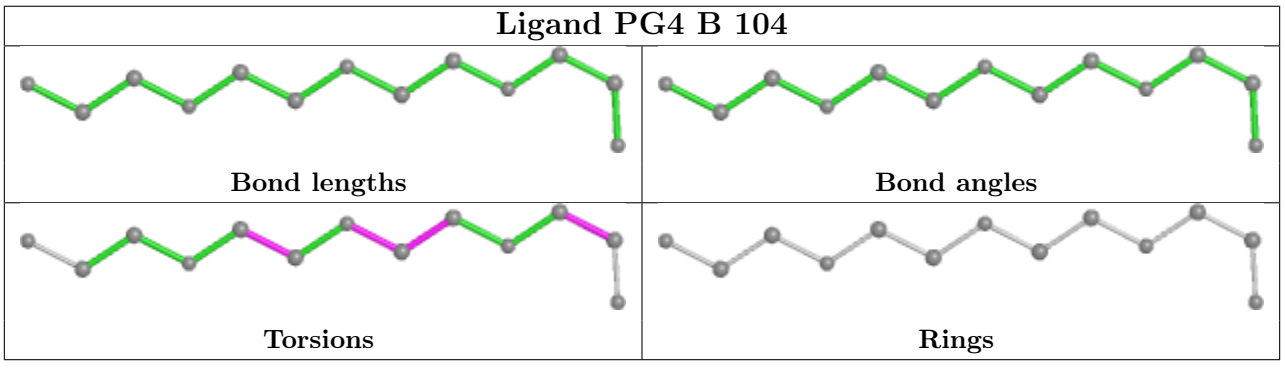
Ligand GOL B 134



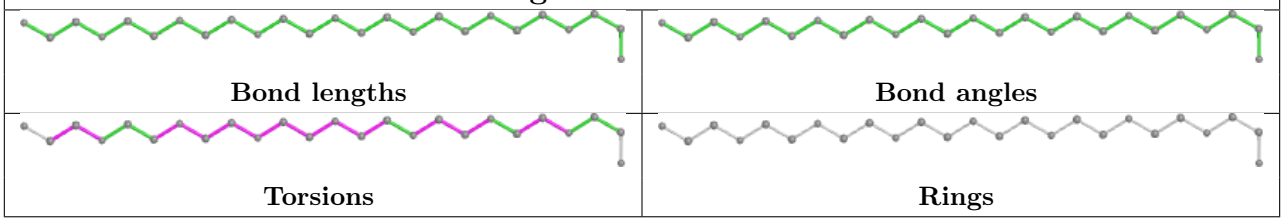
Ligand PG4 B 126



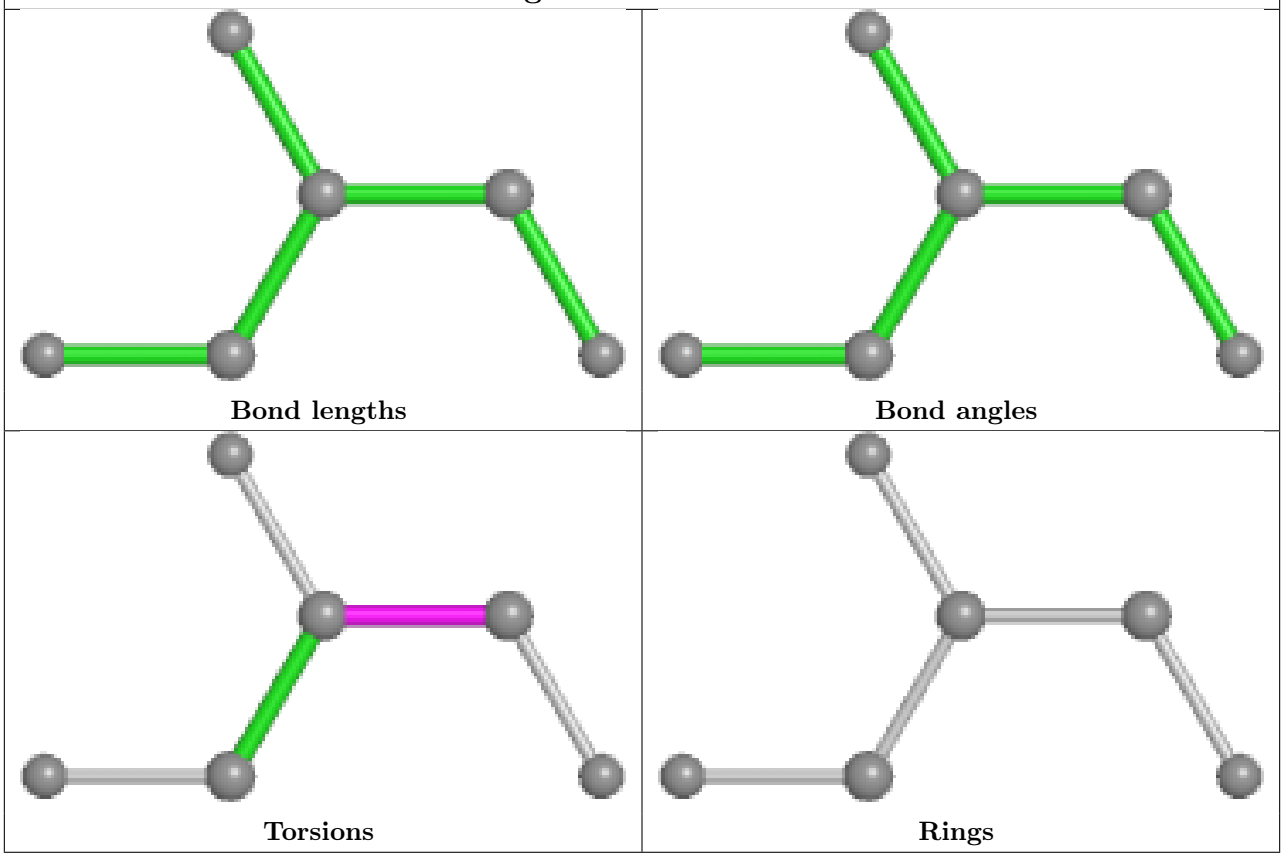
Ligand PG4 B 104



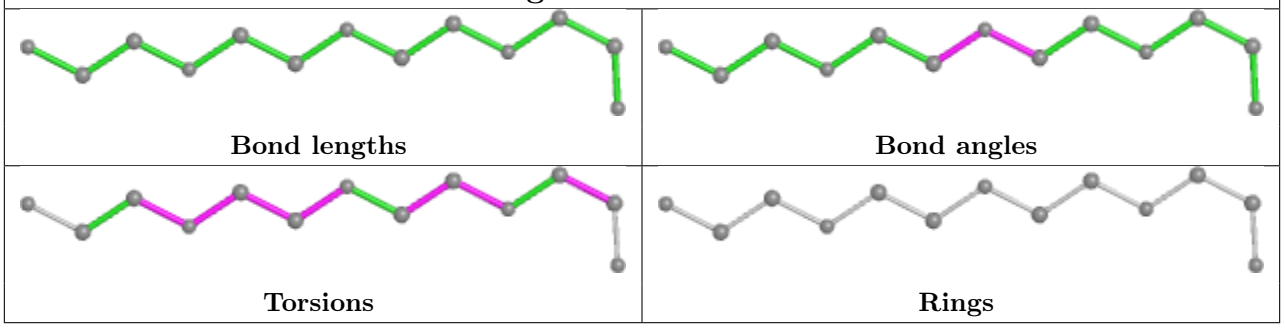
Ligand PE8 B 123



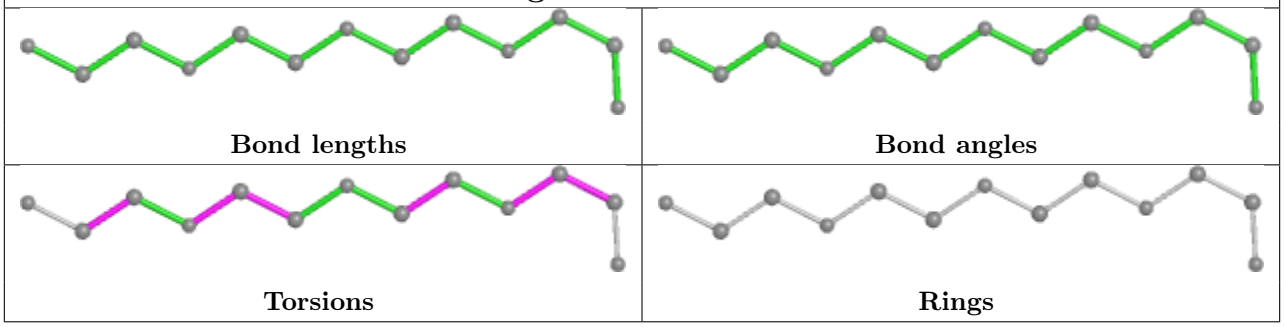
Ligand GOL B 137



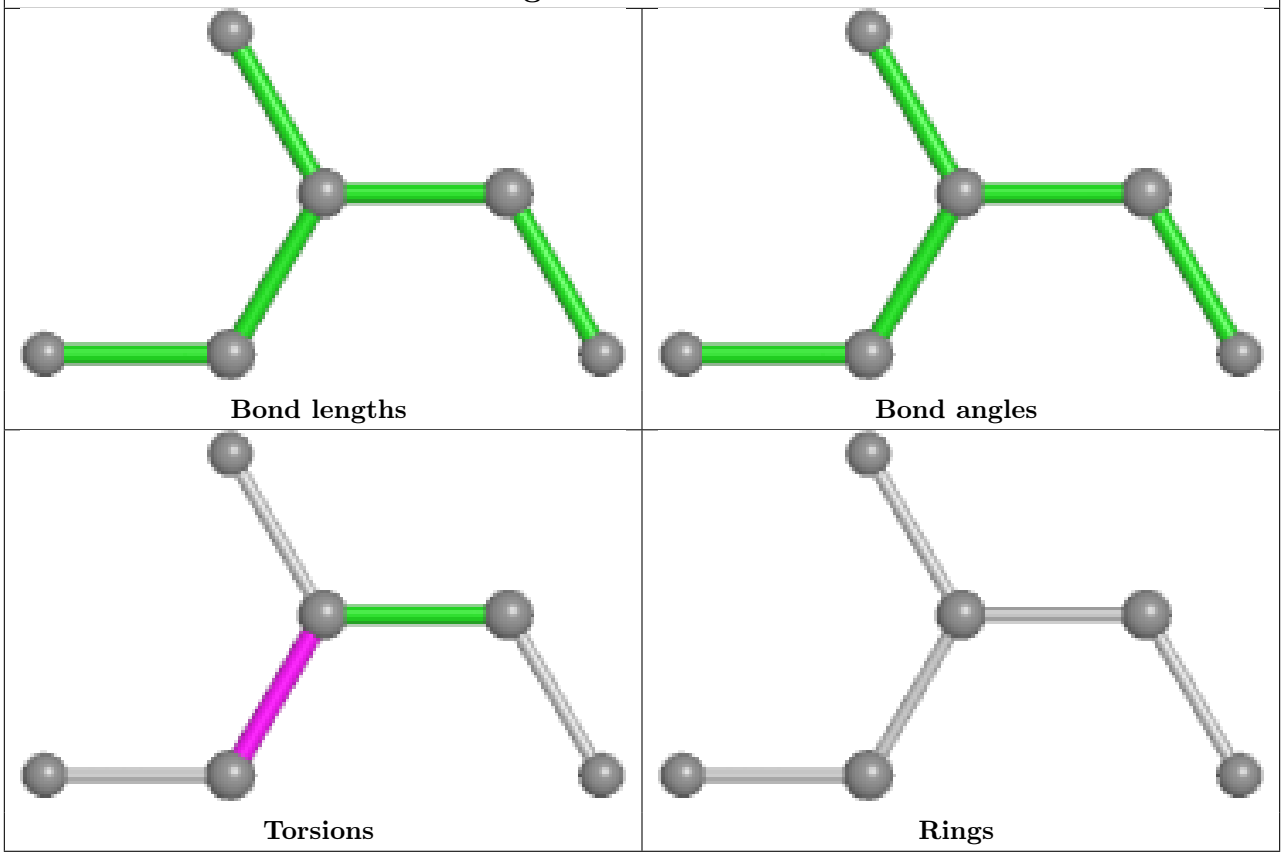
Ligand PG4 A 337



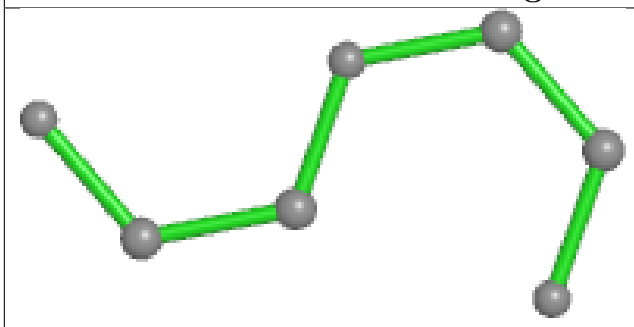
Ligand PG4 B 128



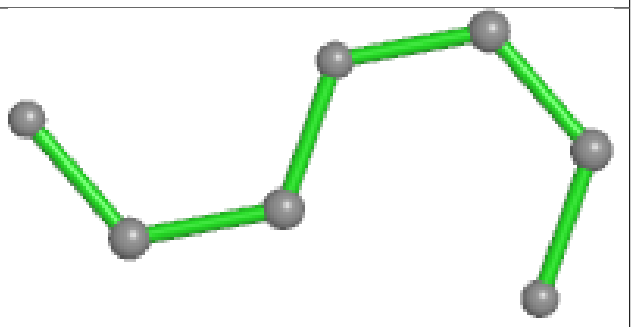
Ligand GOL A 307



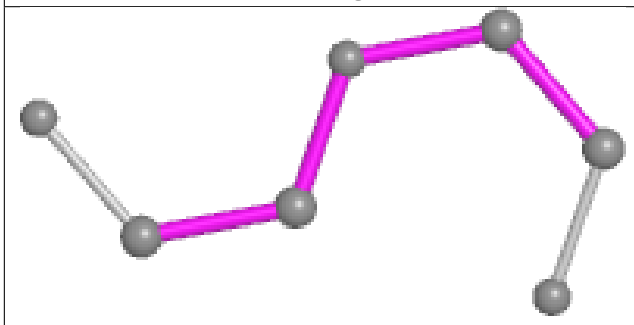
Ligand PEG C 319



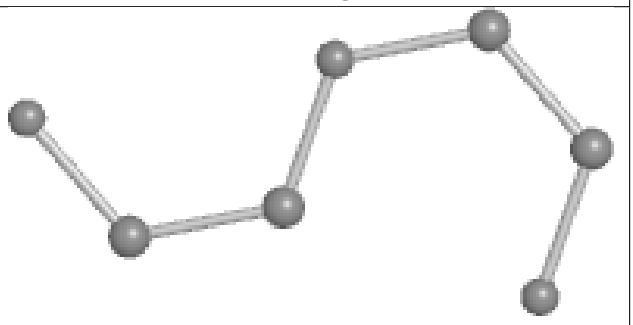
Bond lengths



Bond angles

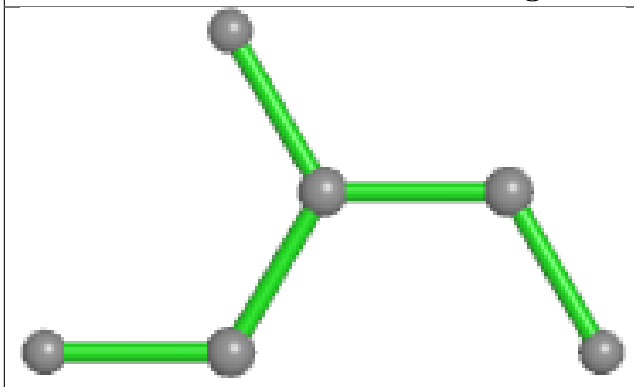


Torsions

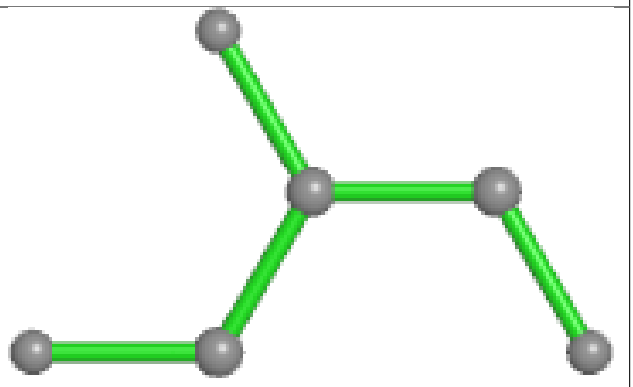


Rings

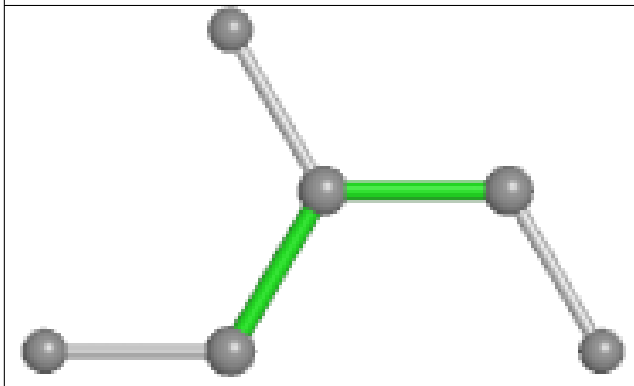
Ligand GOL A 309



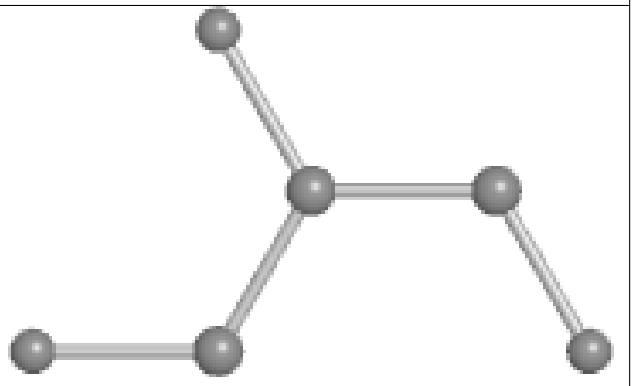
Bond lengths



Bond angles

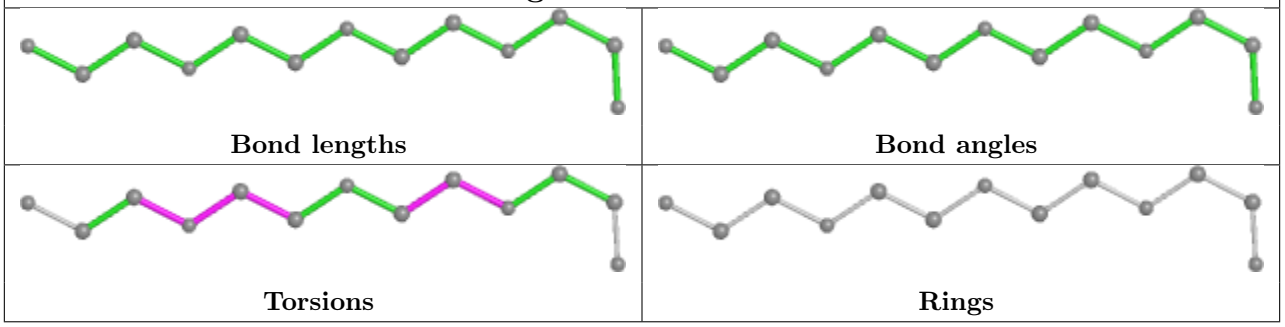


Torsions

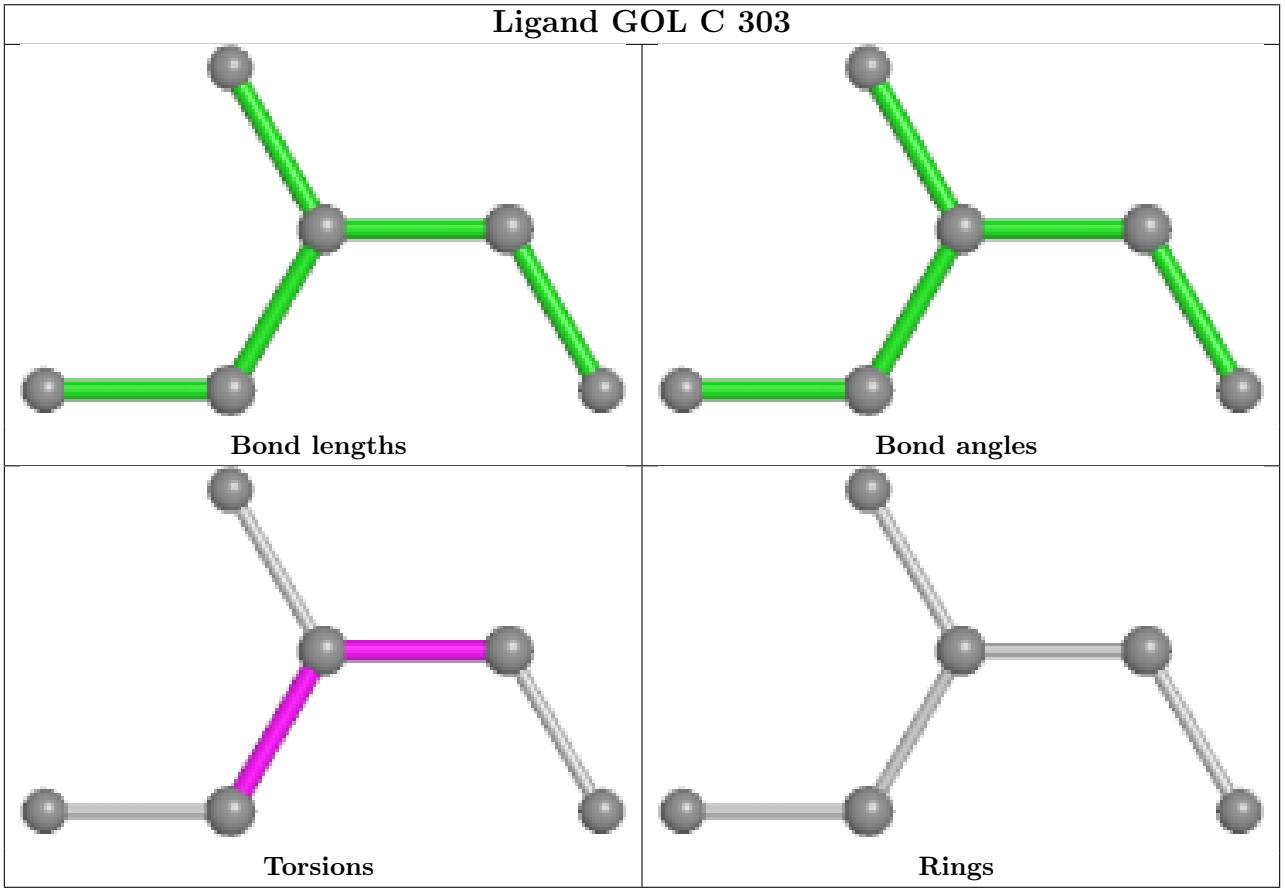


Rings

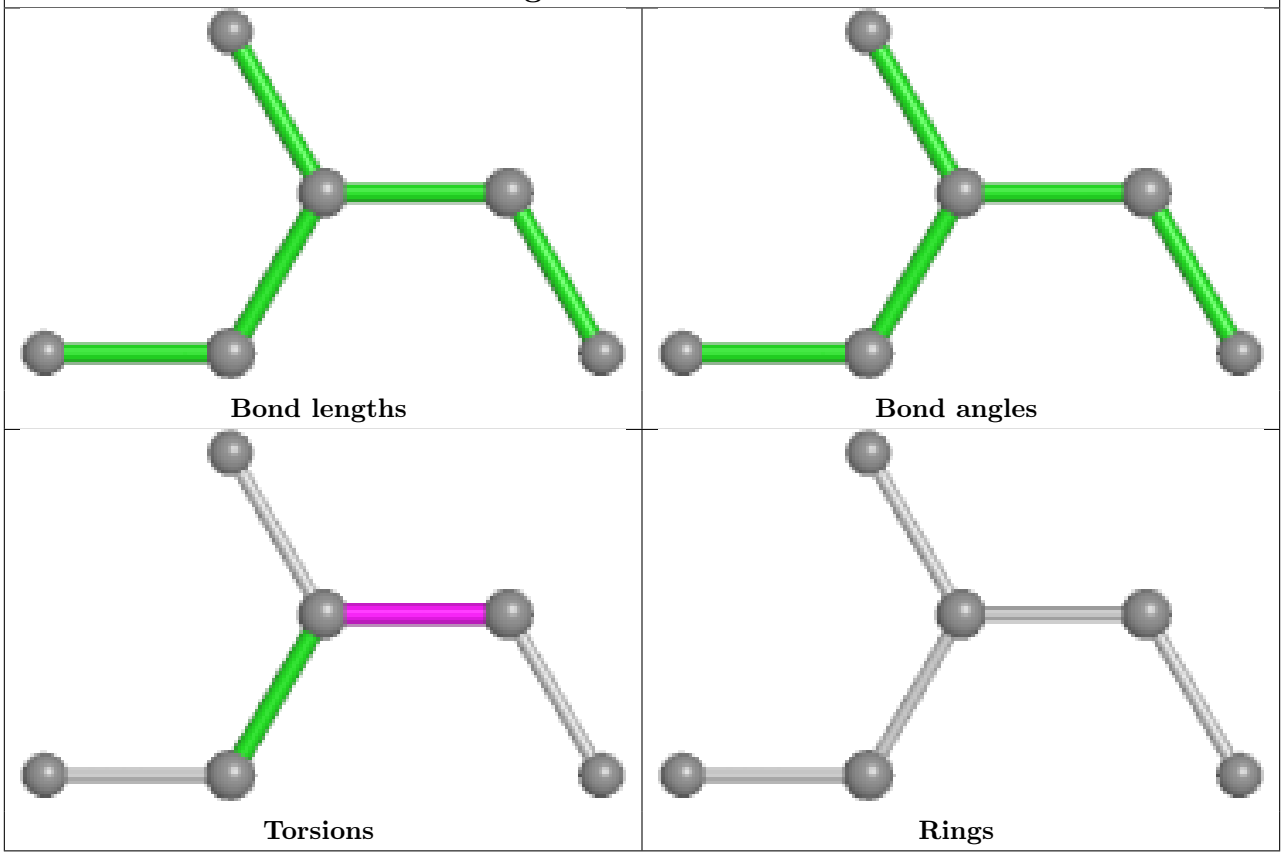
Ligand PG4 A 344



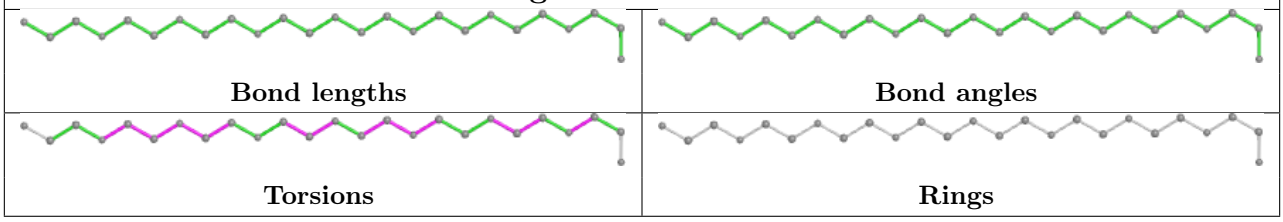
Ligand GOL C 303



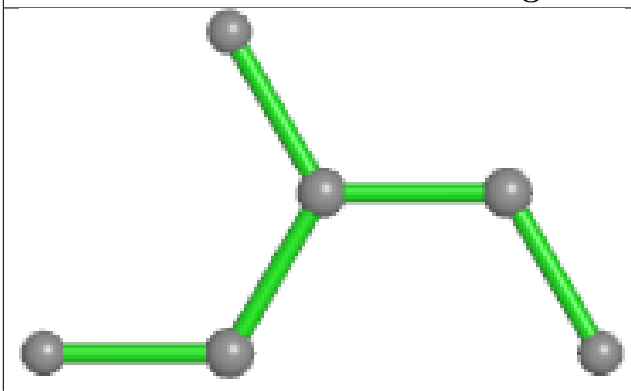
Ligand GOL B 116



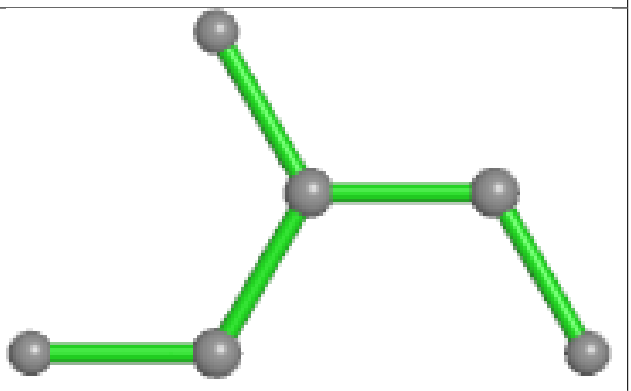
Ligand PE8 C 322



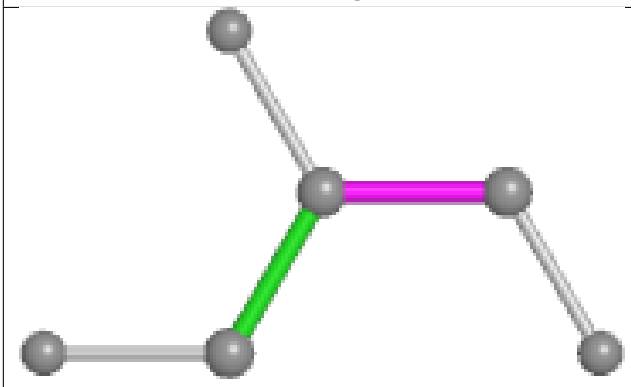
Ligand GOL D 107



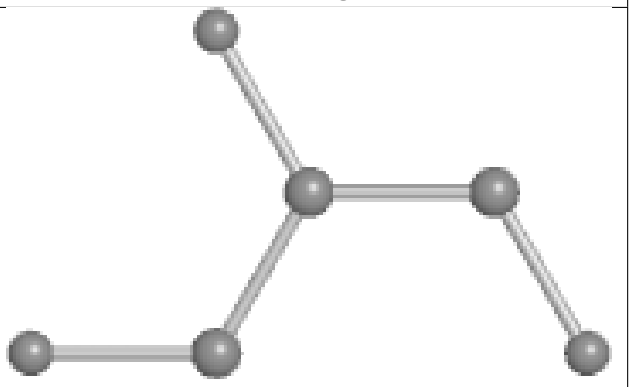
Bond lengths



Bond angles

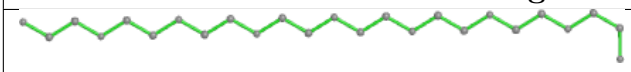


Torsions



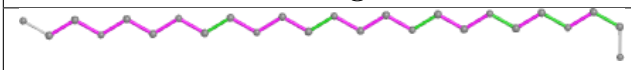
Rings

Ligand PE8 A 324

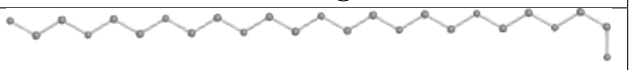


Bond lengths

Bond angles

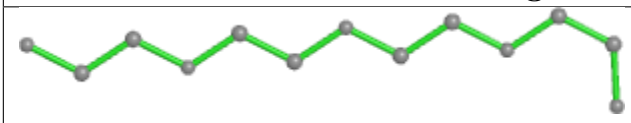


Torsions

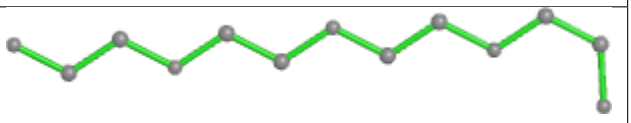


Rings

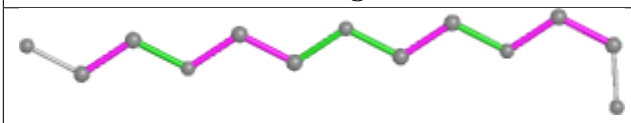
Ligand PG4 A 328



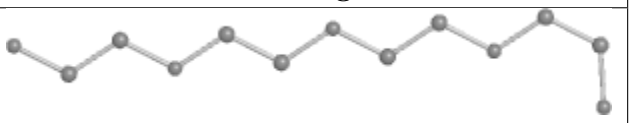
Bond lengths



Bond angles

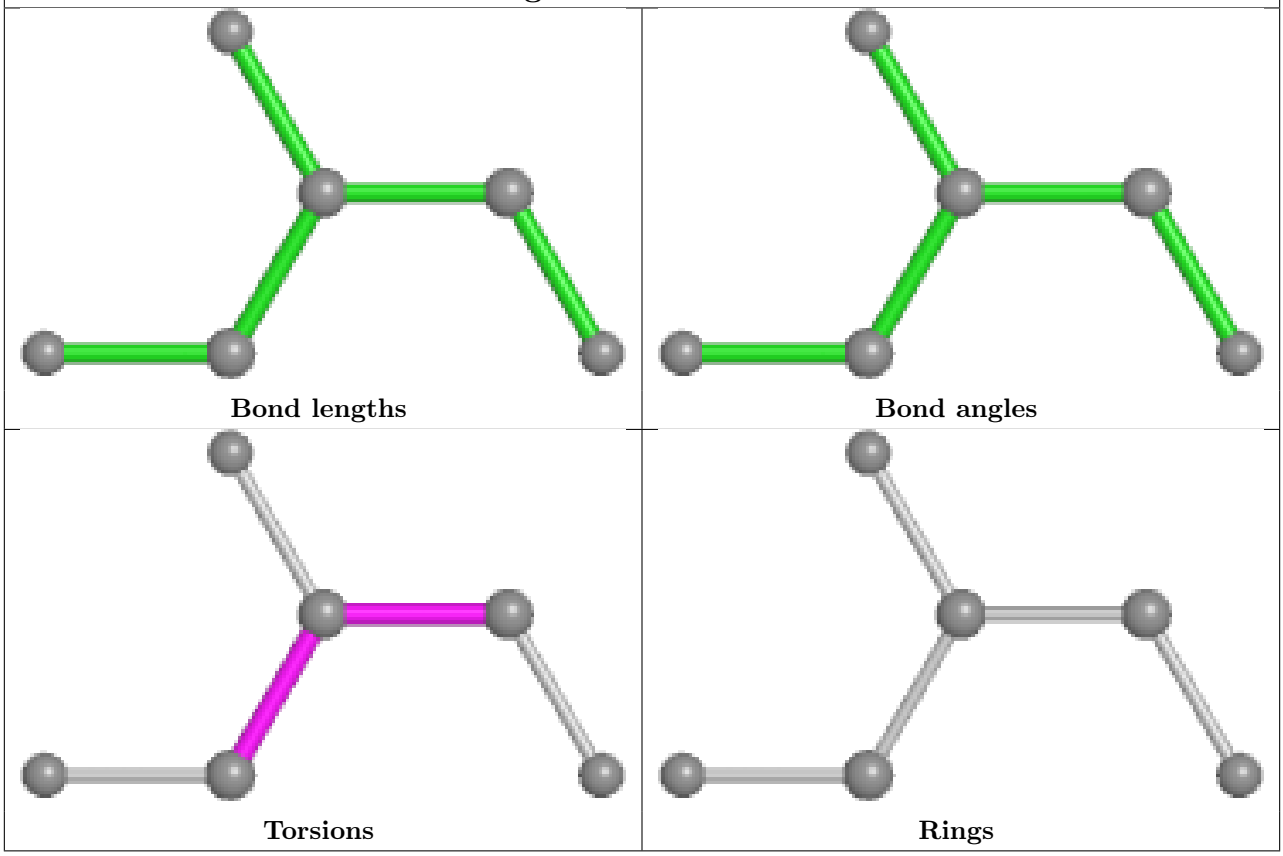


Torsions

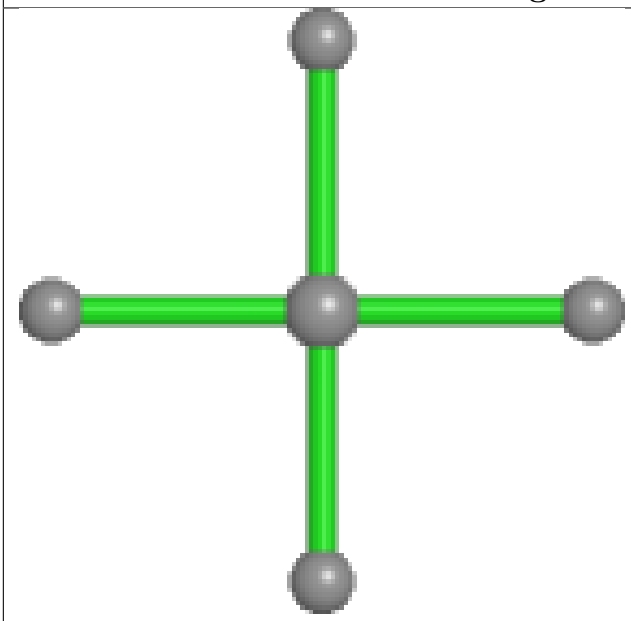


Rings

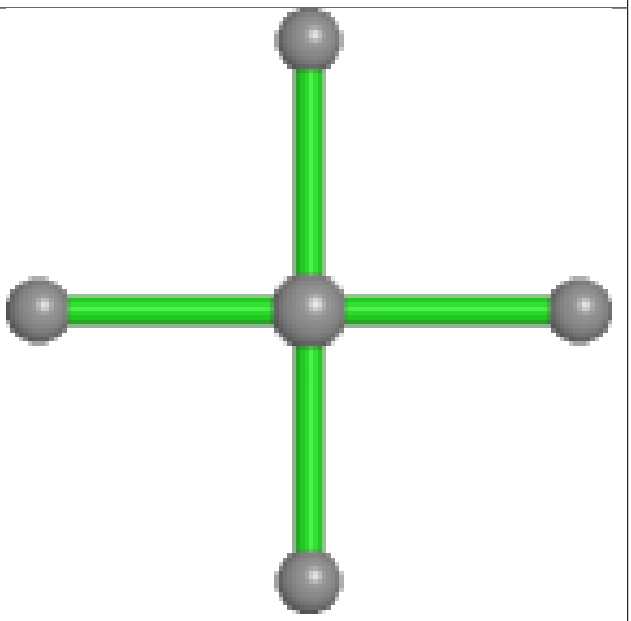
Ligand GOL B 115



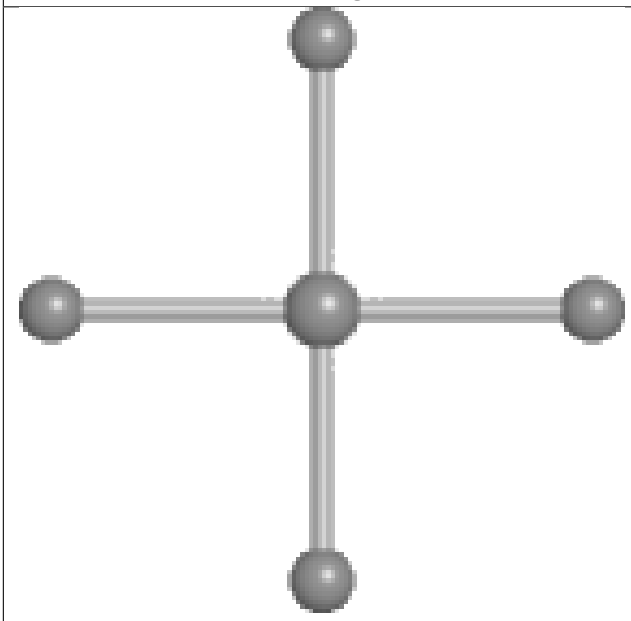
Ligand SO4 B 119



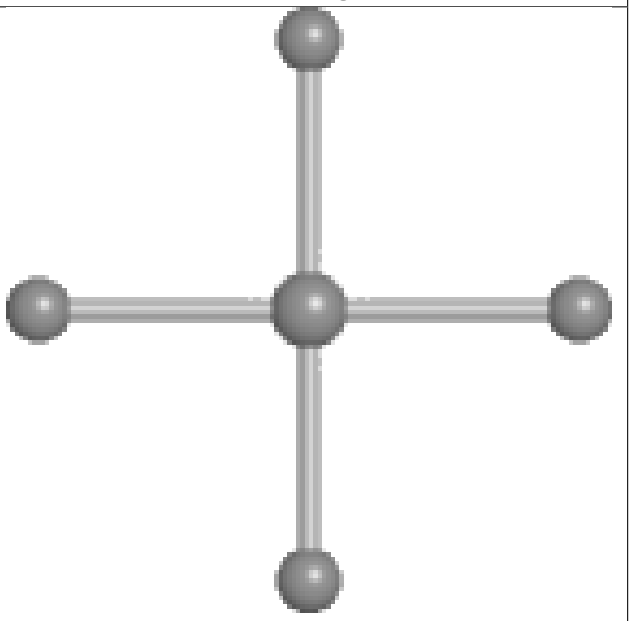
Bond lengths



Bond angles

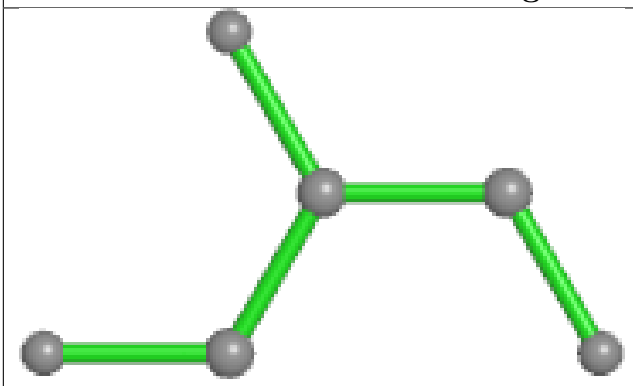


Torsions

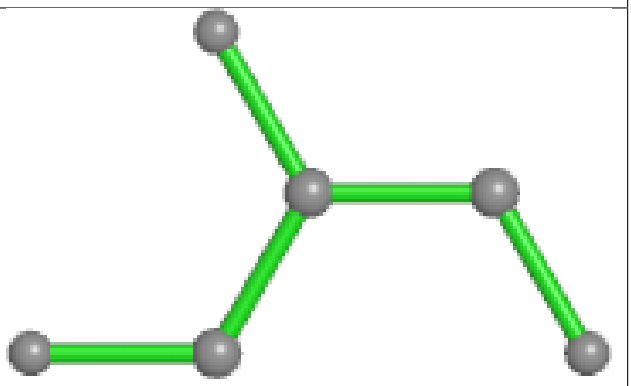


Rings

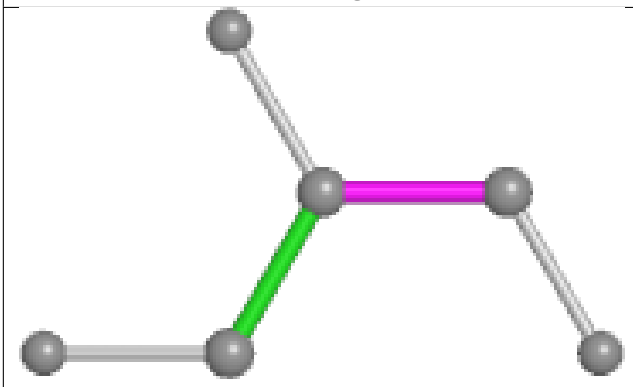
Ligand GOL D 103



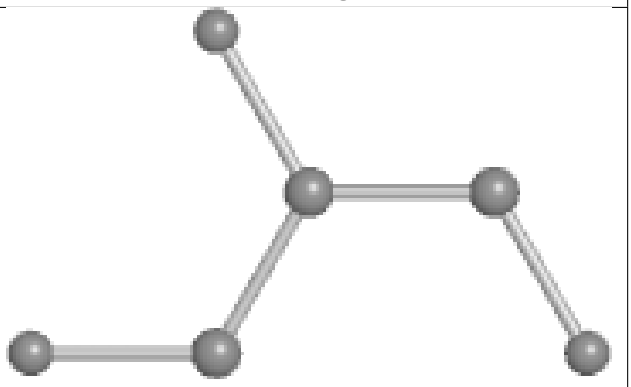
Bond lengths



Bond angles

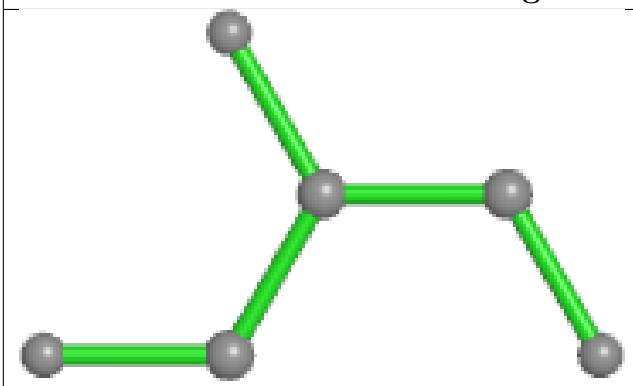


Torsions

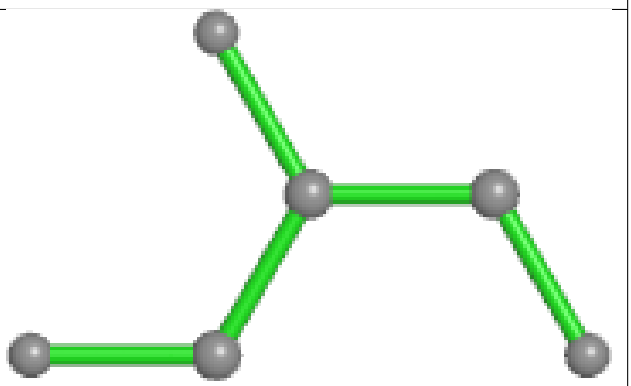


Rings

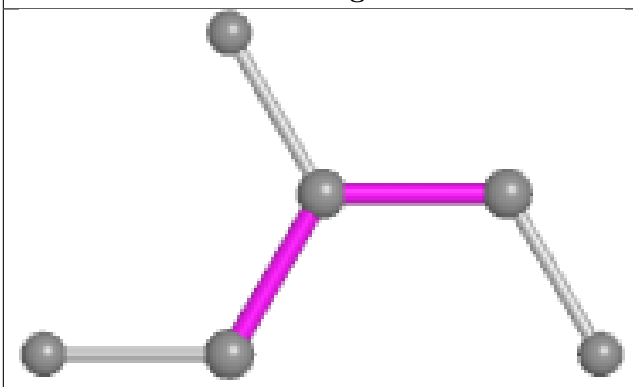
Ligand GOL A 308



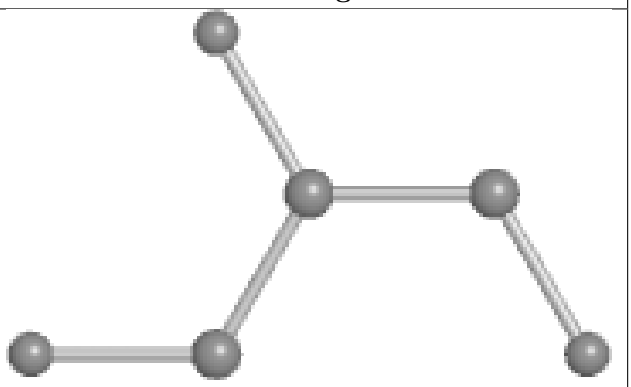
Bond lengths



Bond angles

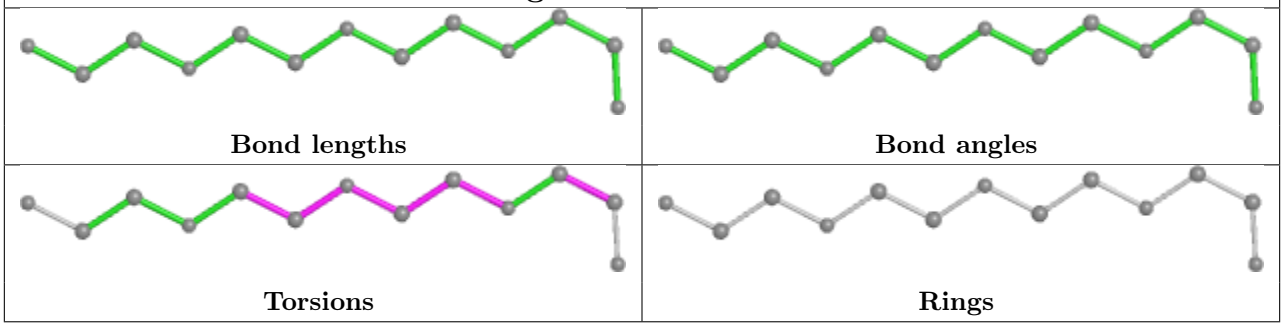


Torsions

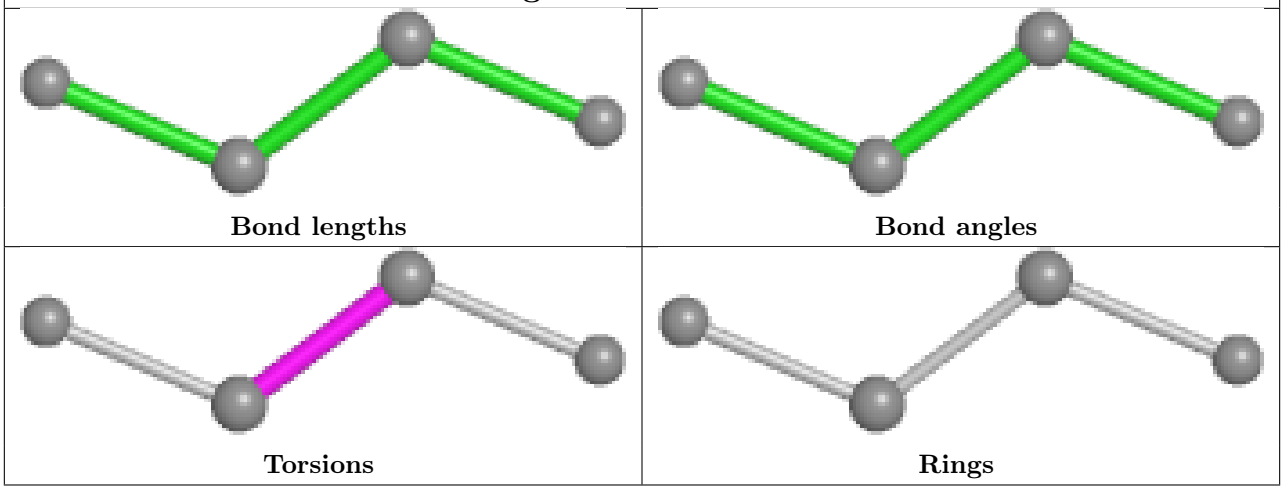


Rings

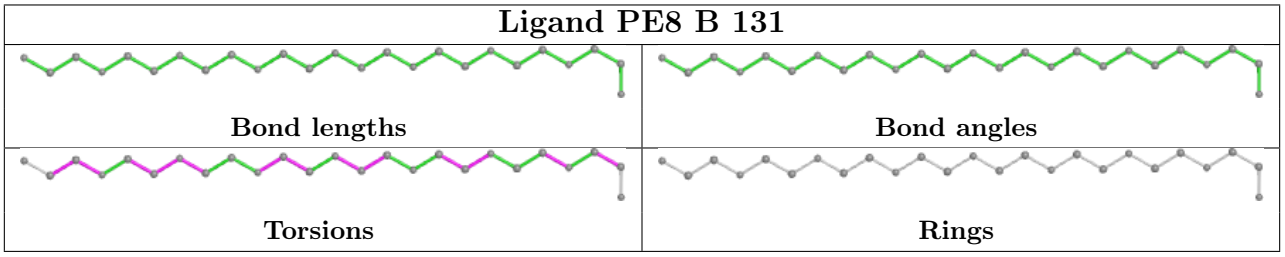
Ligand PG4 A 332



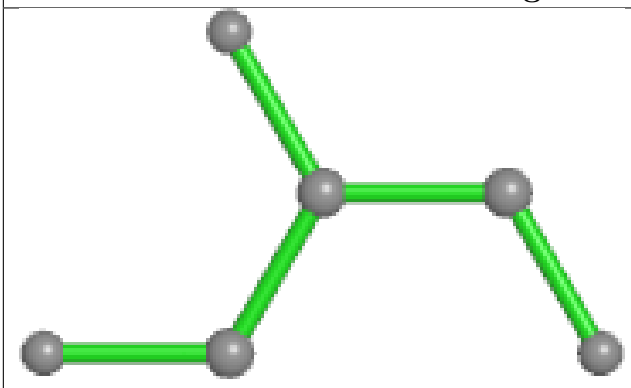
Ligand EDO A 325



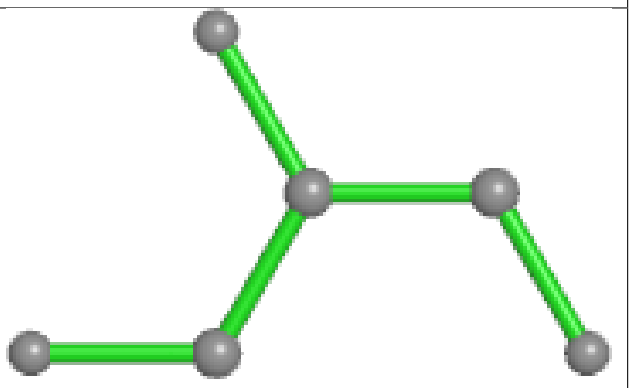
Ligand PE8 B 131



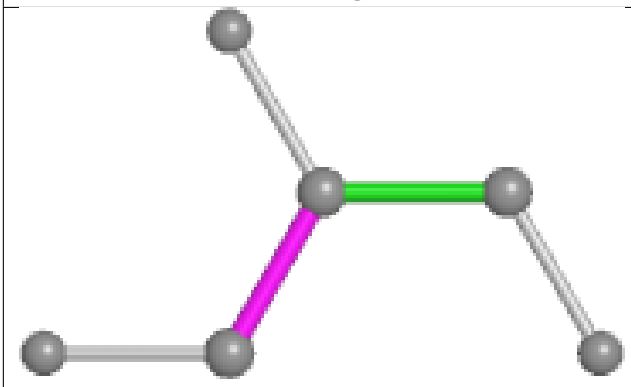
Ligand GOL B 110



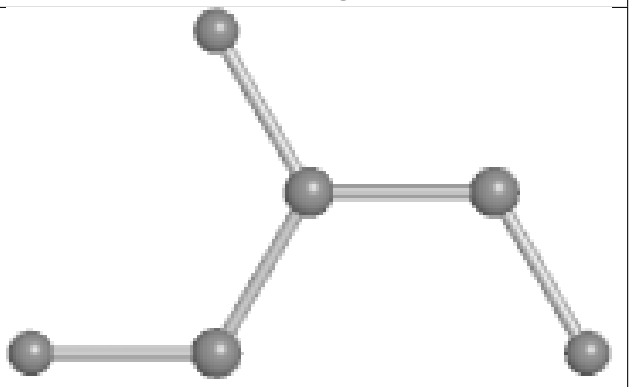
Bond lengths



Bond angles

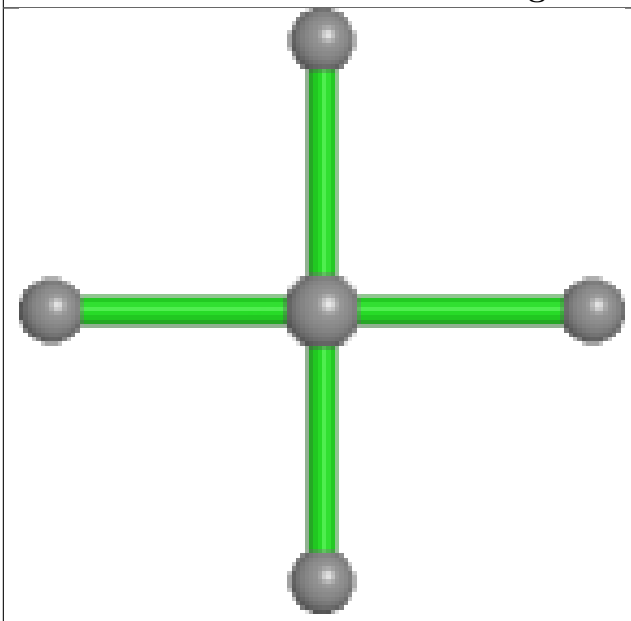


Torsions

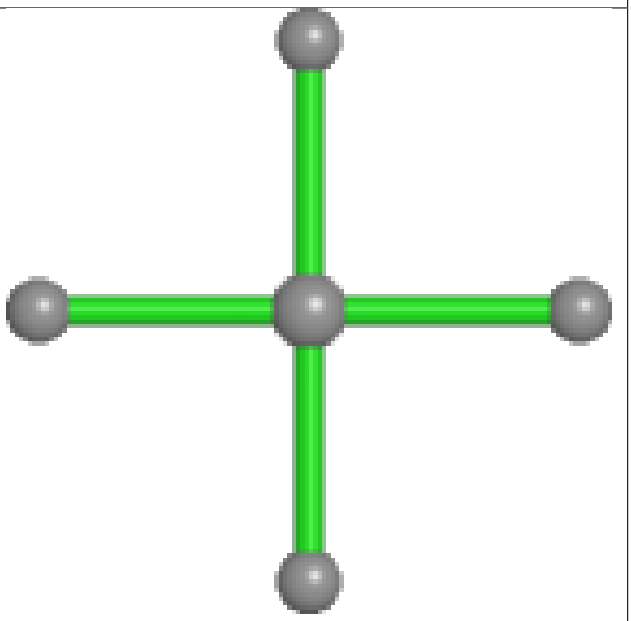


Rings

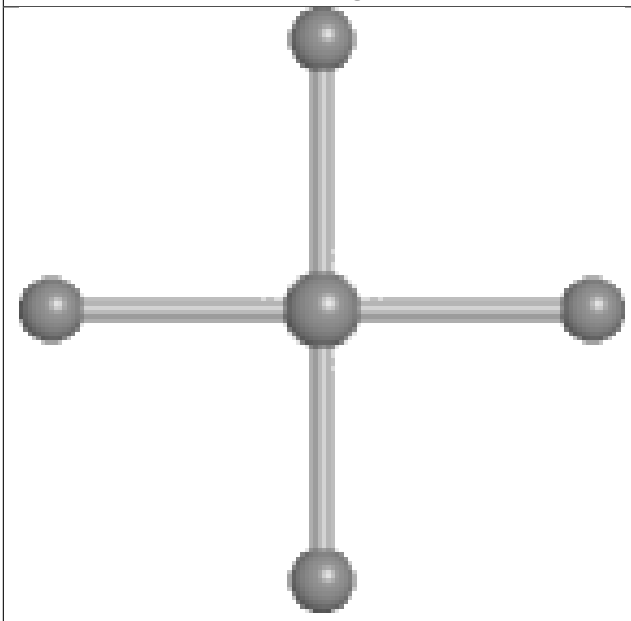
Ligand SO4 D 114



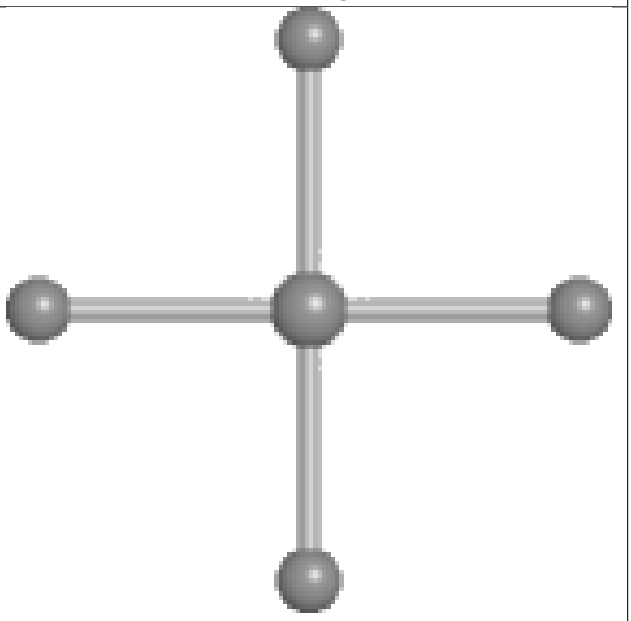
Bond lengths



Bond angles

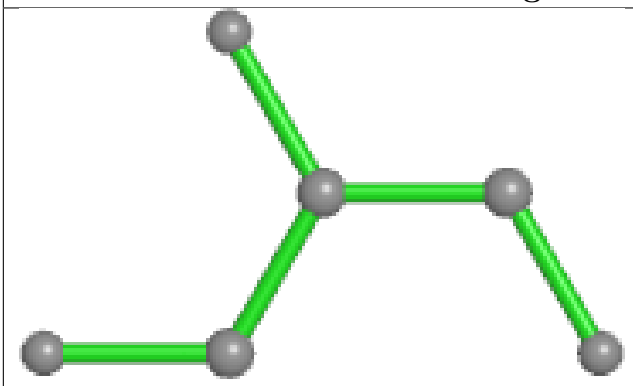


Torsions

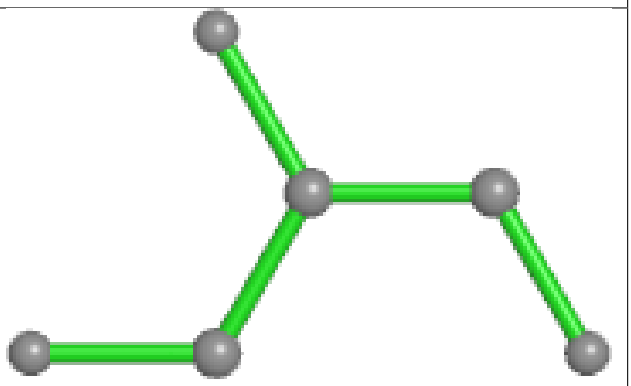


Rings

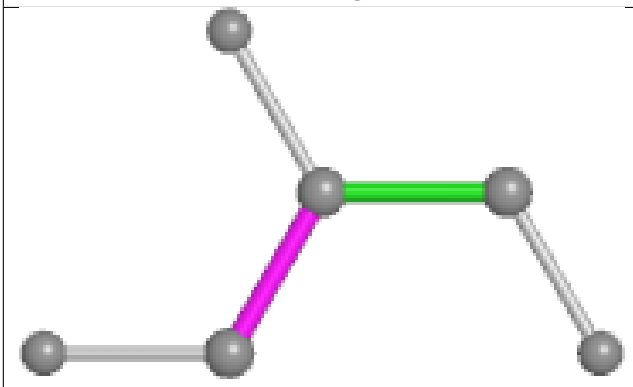
Ligand GOL B 101



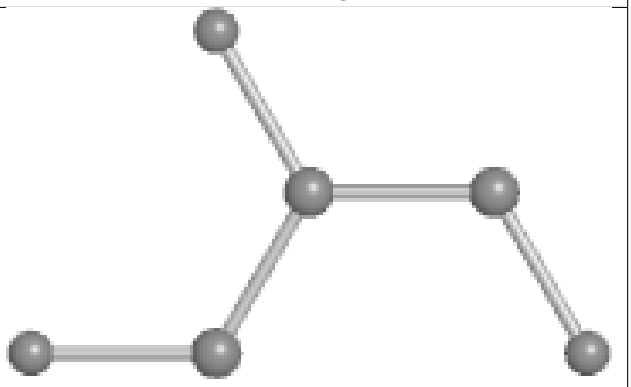
Bond lengths



Bond angles

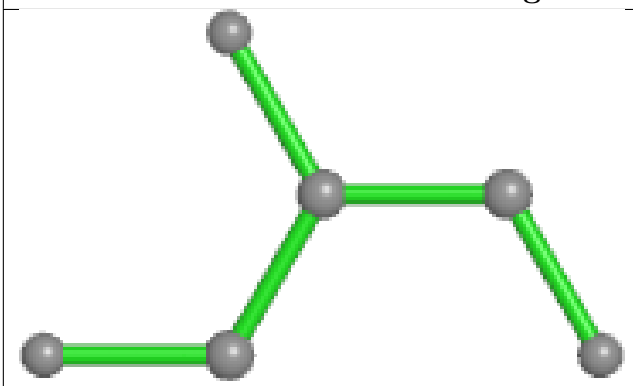


Torsions

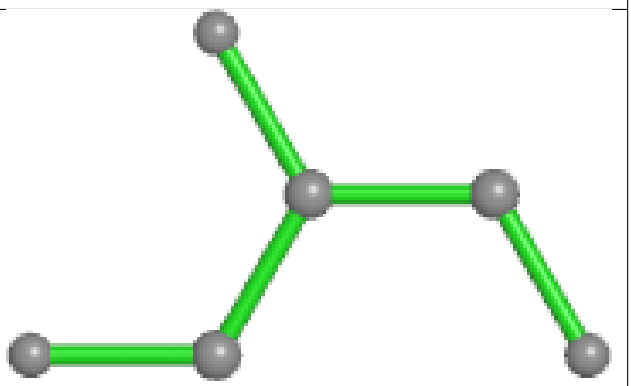


Rings

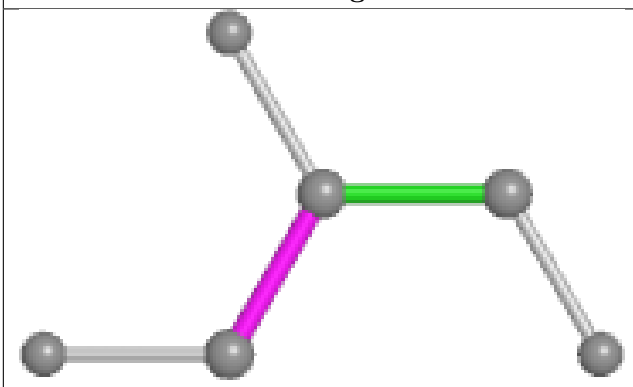
Ligand GOL B 140



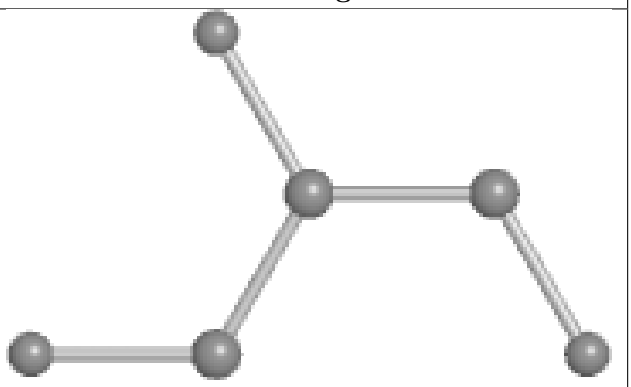
Bond lengths



Bond angles

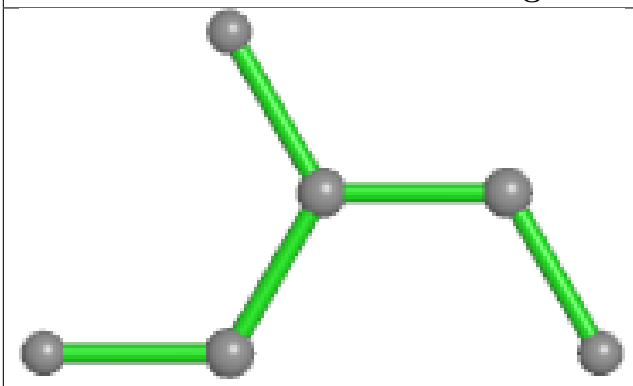


Torsions

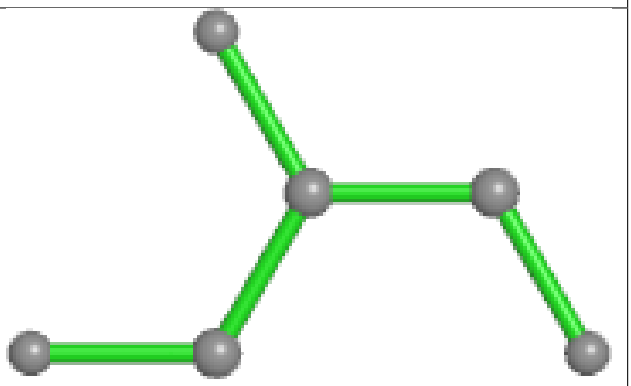


Rings

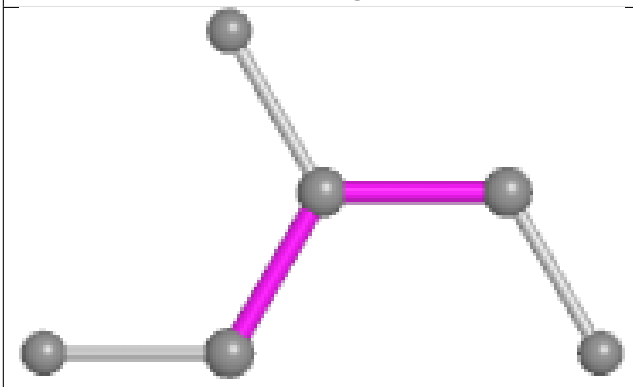
Ligand GOL C 341



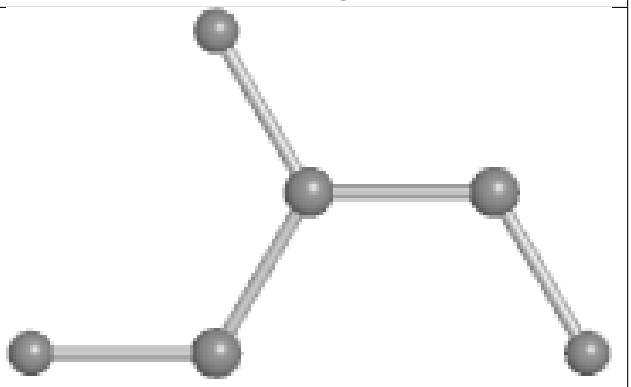
Bond lengths



Bond angles

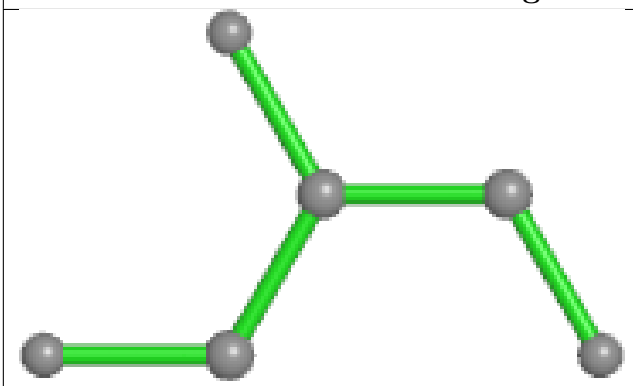


Torsions

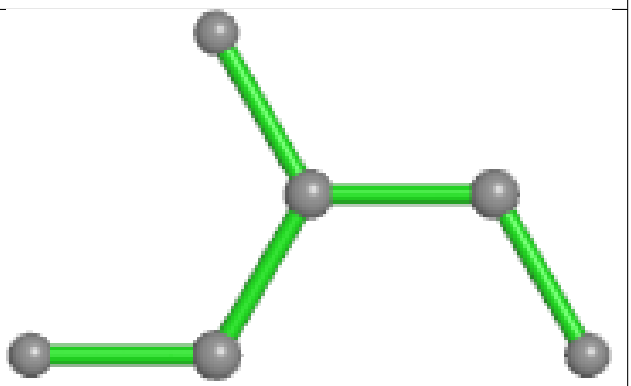


Rings

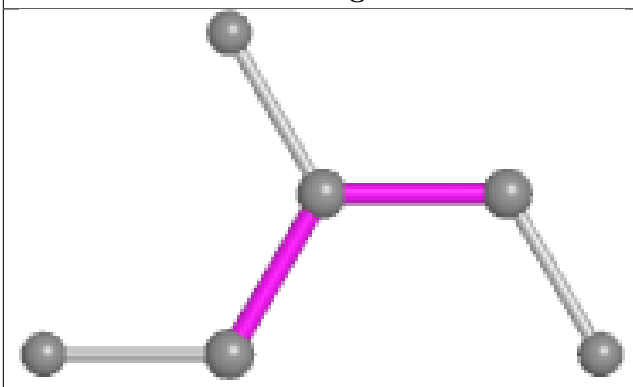
Ligand GOL A 303



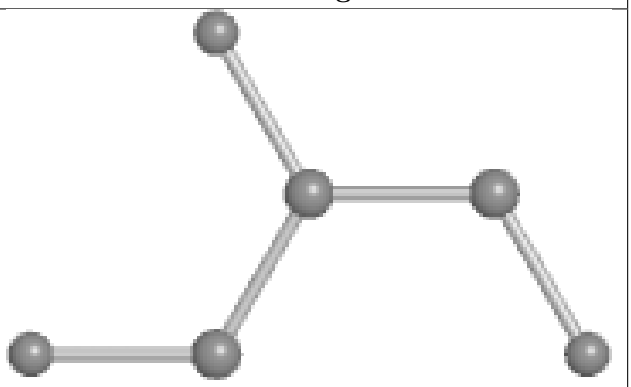
Bond lengths



Bond angles

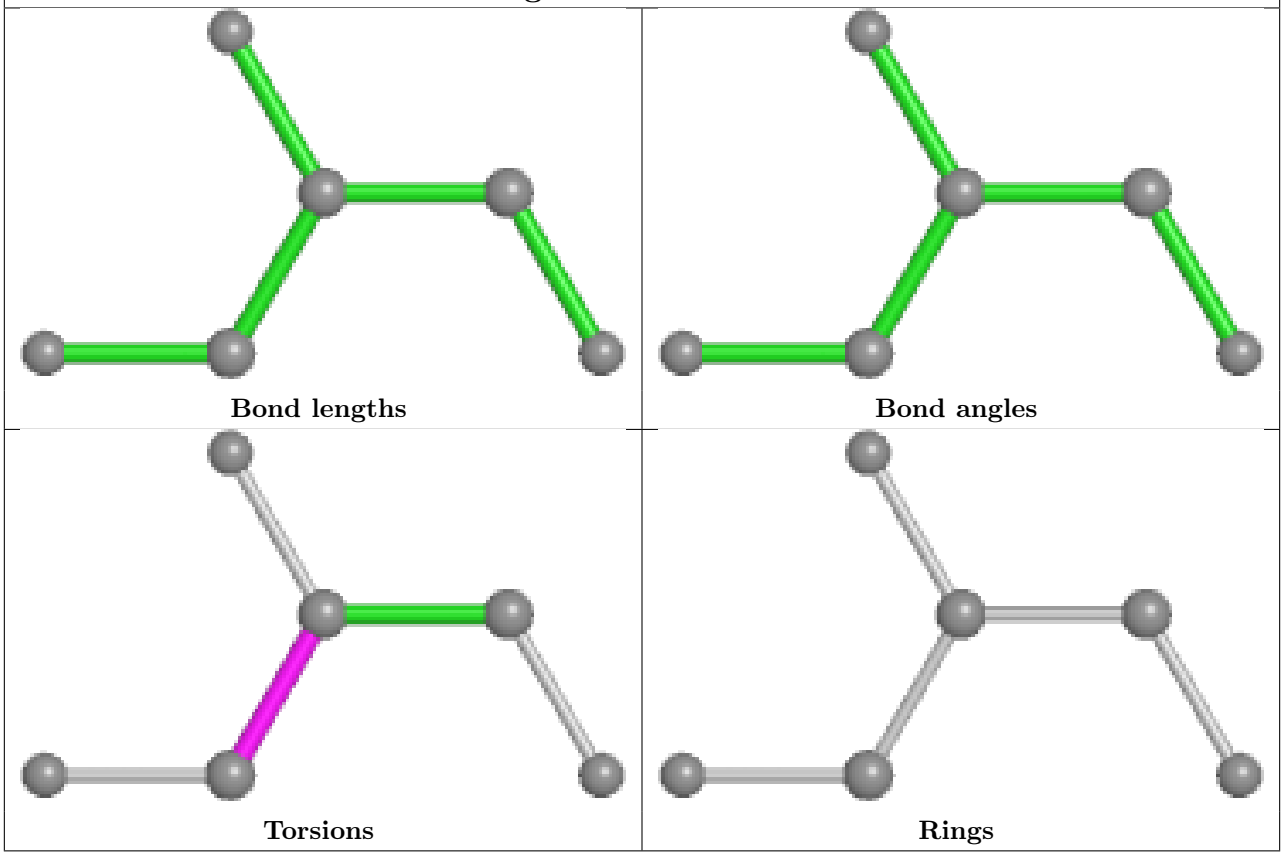


Torsions

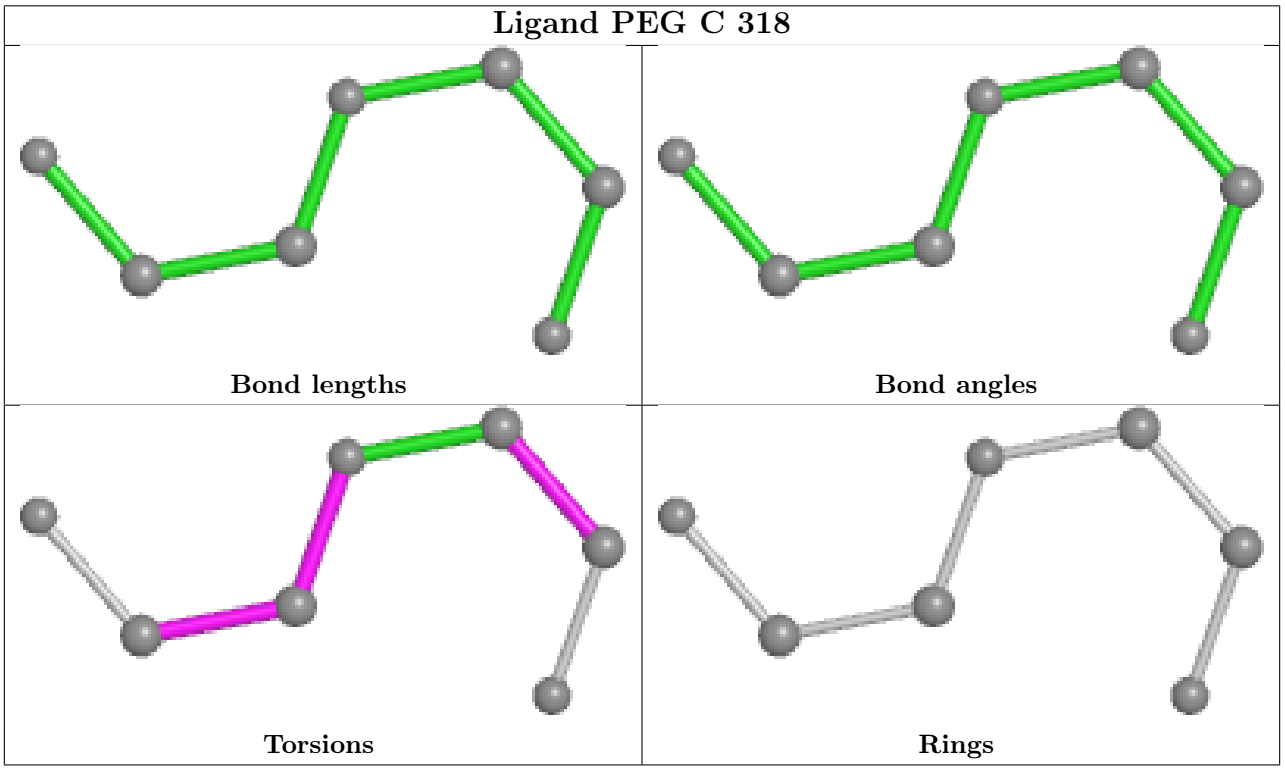


Rings

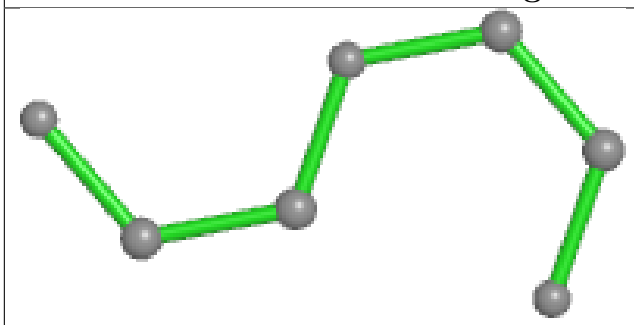
Ligand GOL B 109



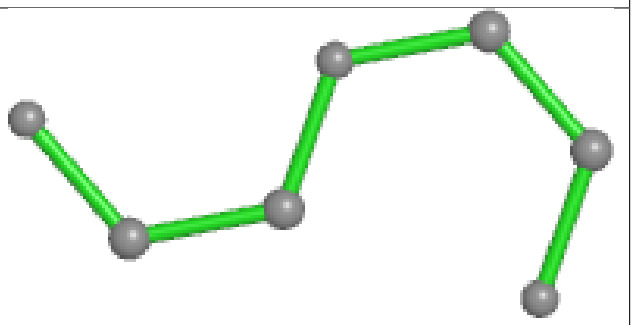
Ligand PEG C 318



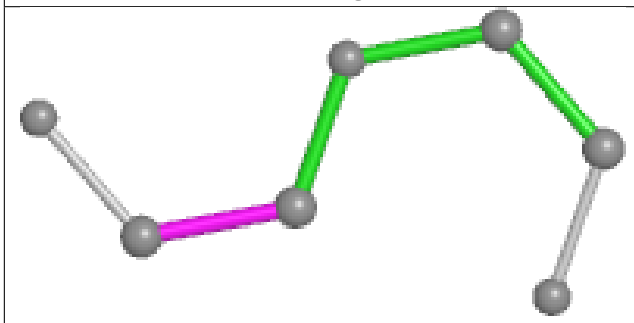
Ligand PEG A 321



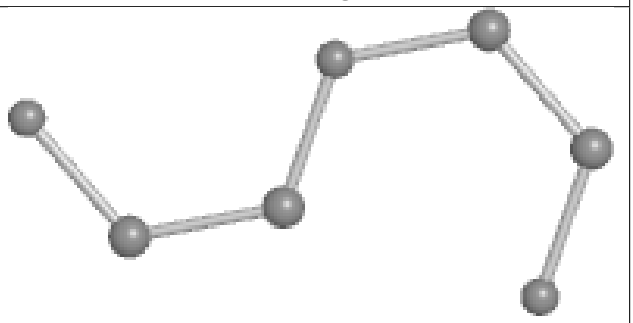
Bond lengths



Bond angles

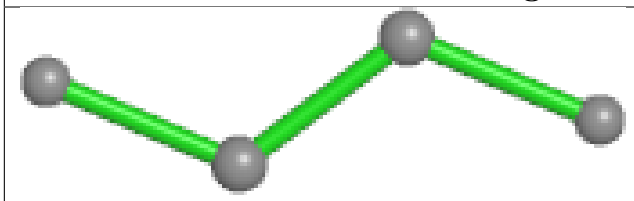


Torsions

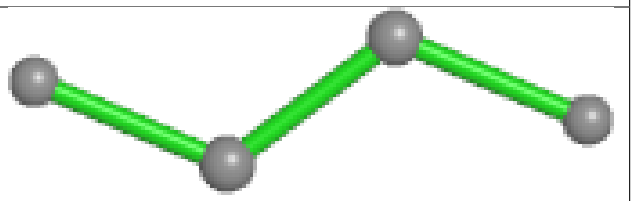


Rings

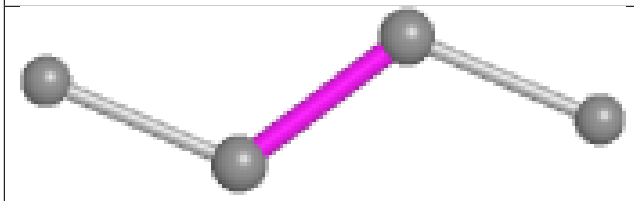
Ligand EDO A 327



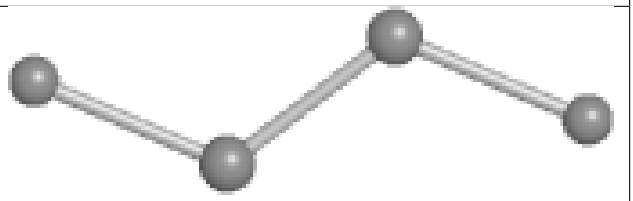
Bond lengths



Bond angles

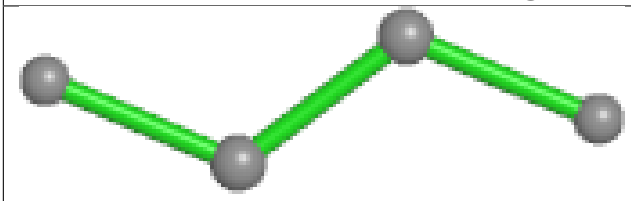


Torsions

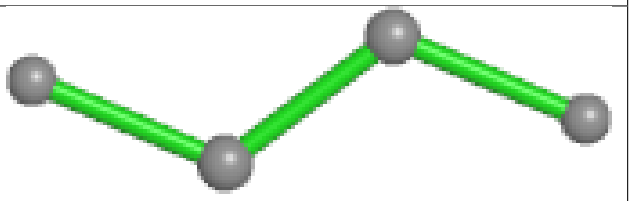


Rings

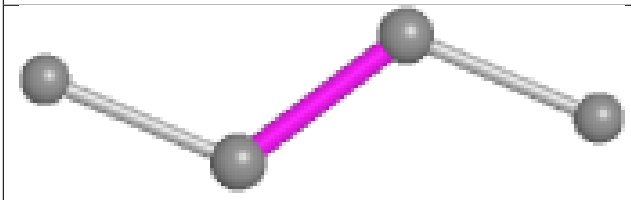
Ligand EDO A 343



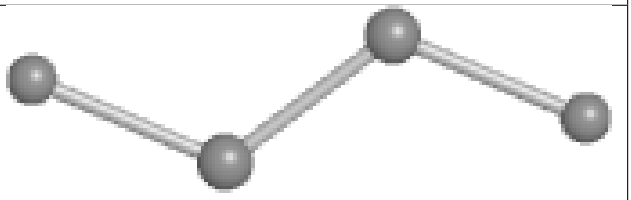
Bond lengths



Bond angles

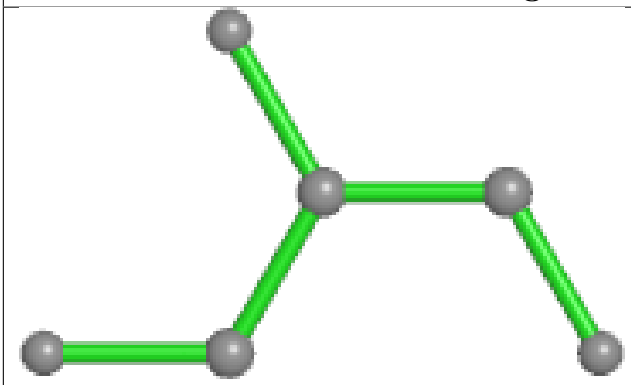


Torsions

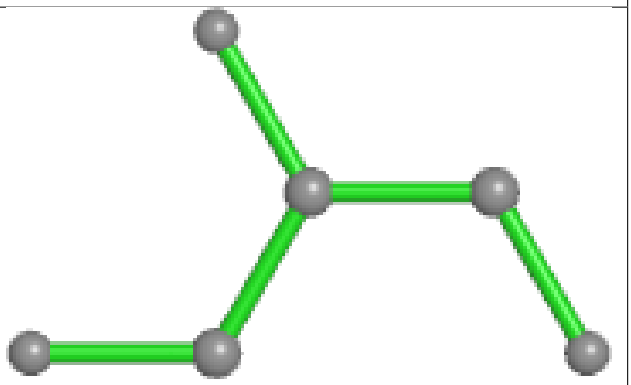


Rings

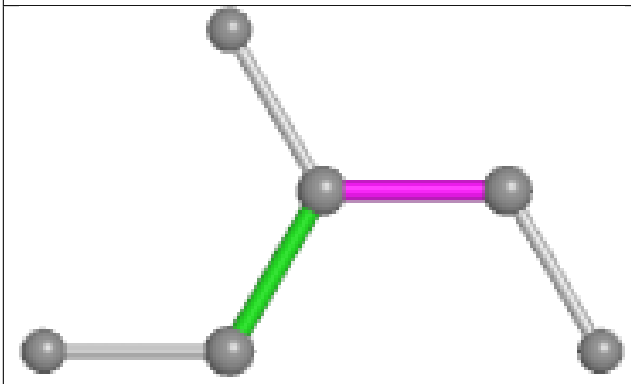
Ligand GOL B 108



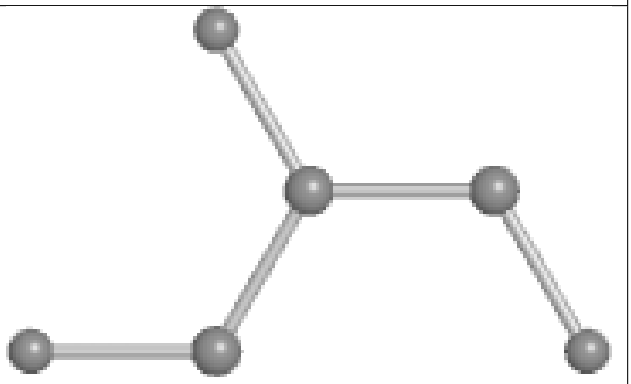
Bond lengths



Bond angles

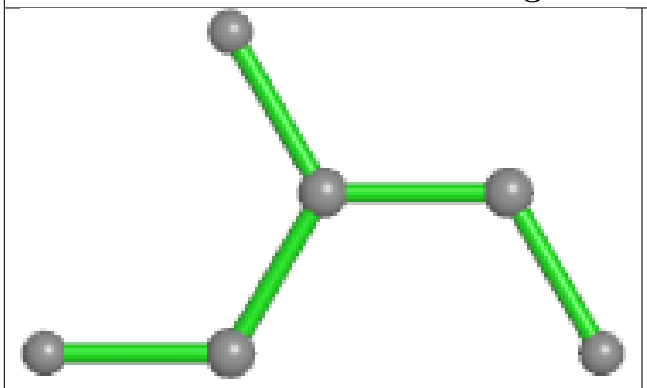


Torsions

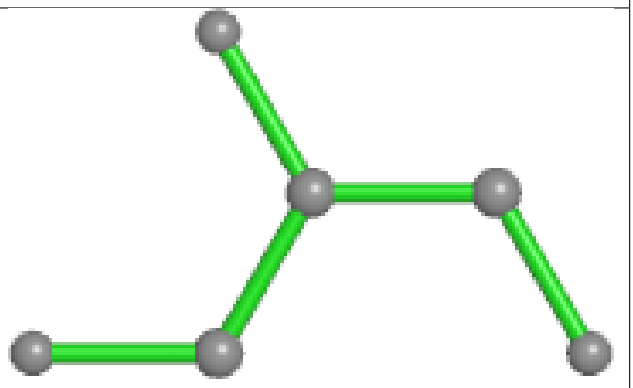


Rings

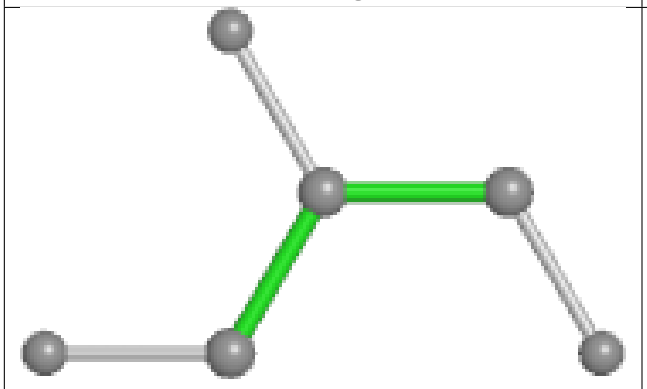
Ligand GOL A 313



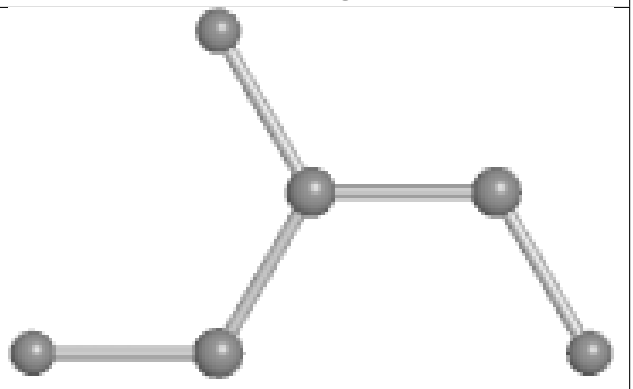
Bond lengths



Bond angles

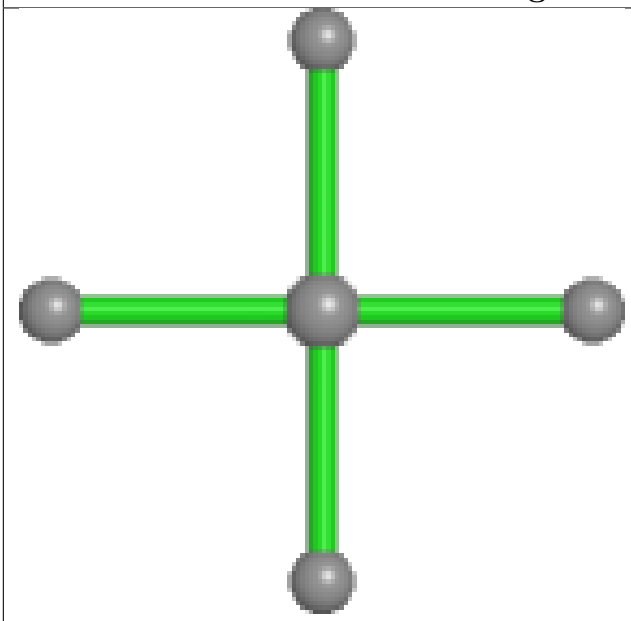


Torsions

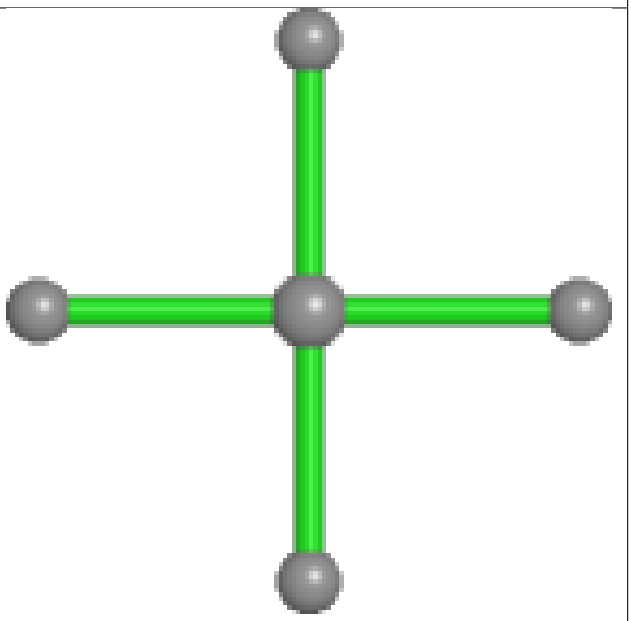


Rings

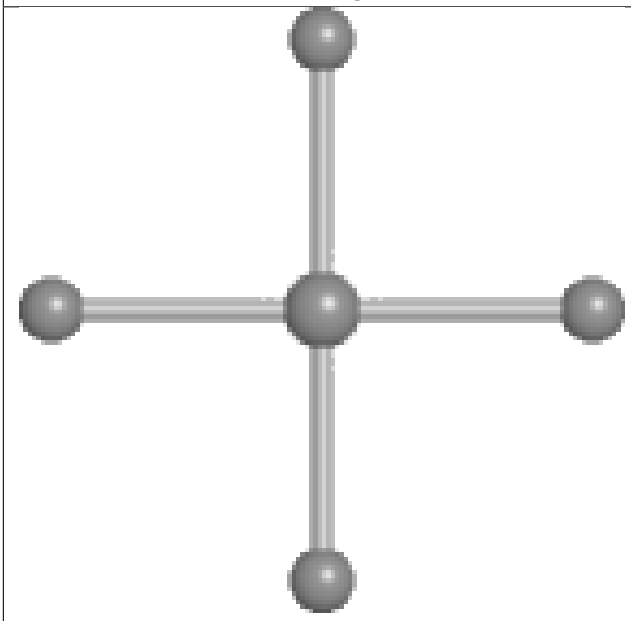
Ligand SO4 D 126



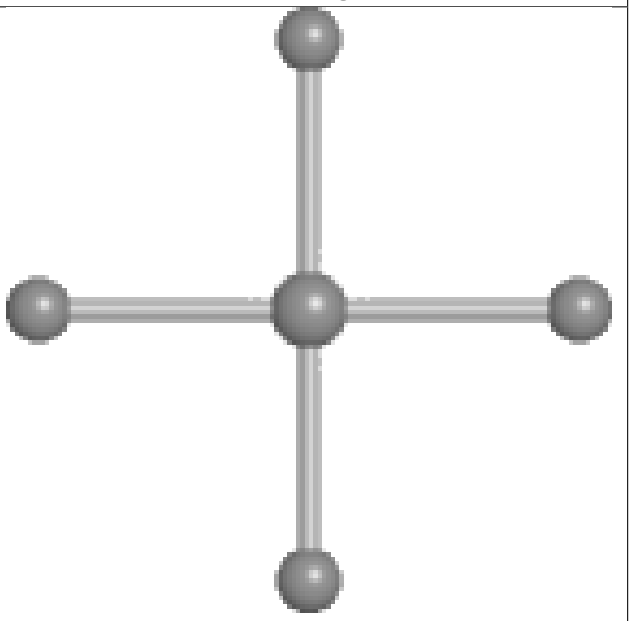
Bond lengths



Bond angles

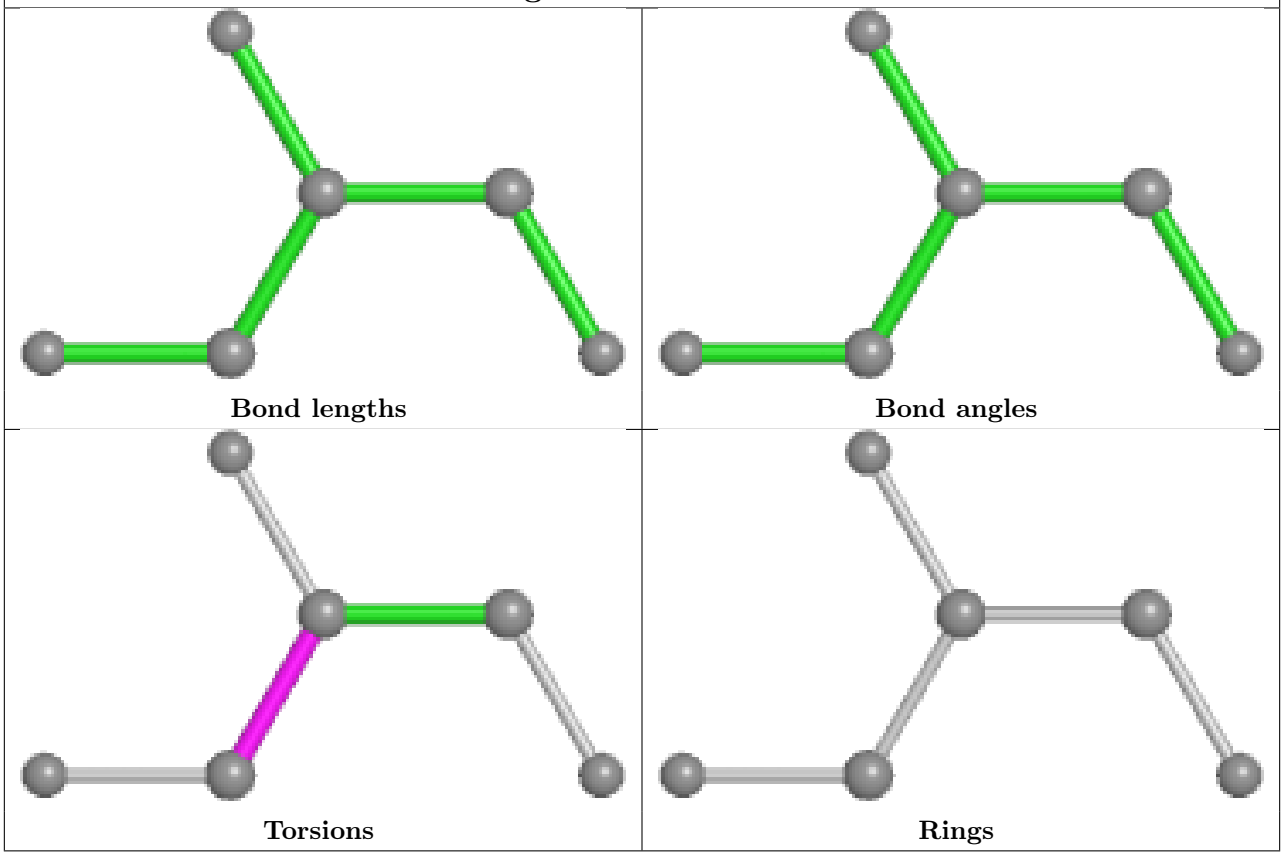


Torsions

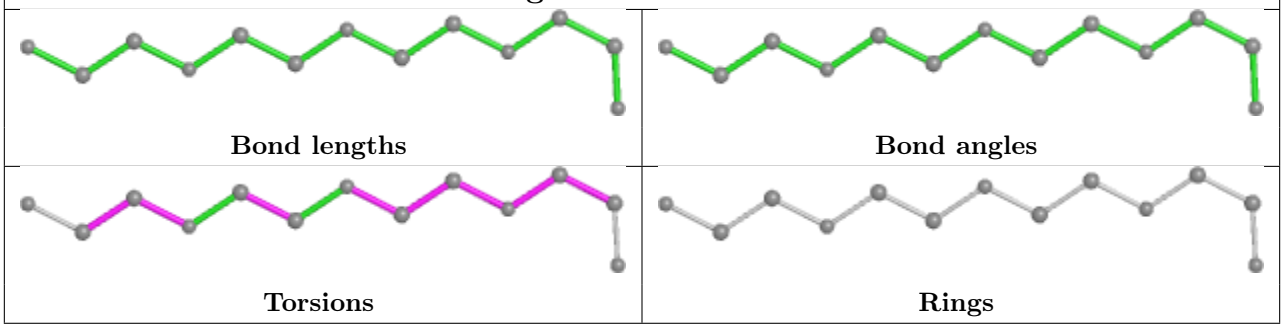


Rings

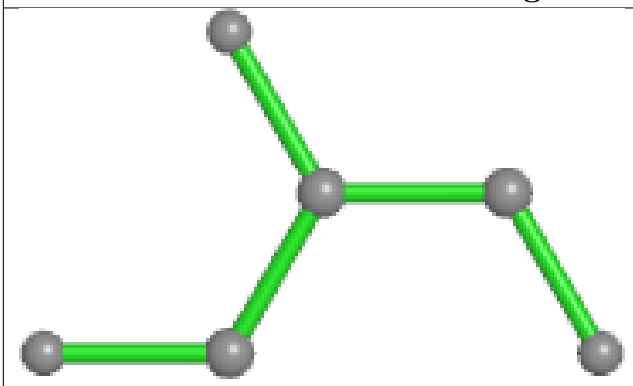
Ligand GOL B 136



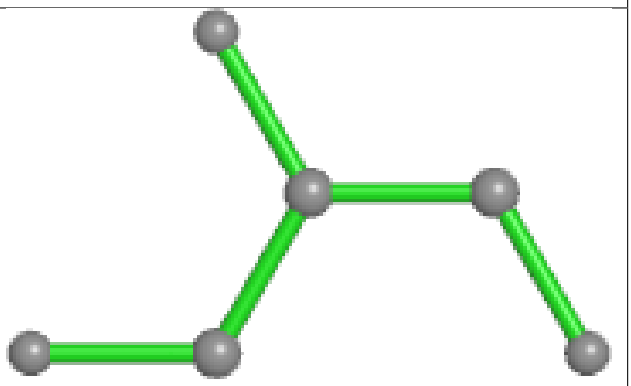
Ligand PG4 D 127



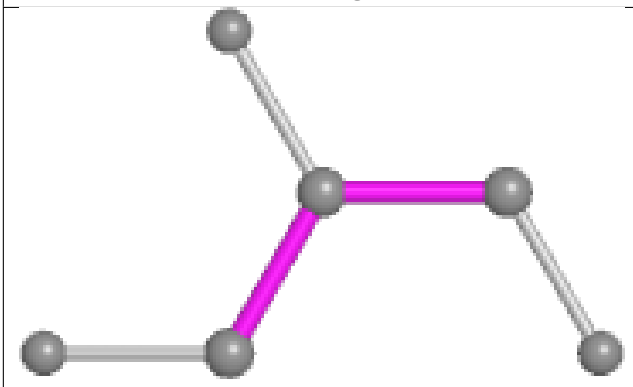
Ligand GOL B 111



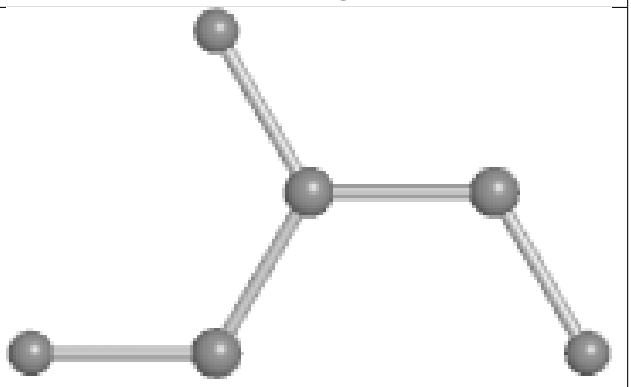
Bond lengths



Bond angles

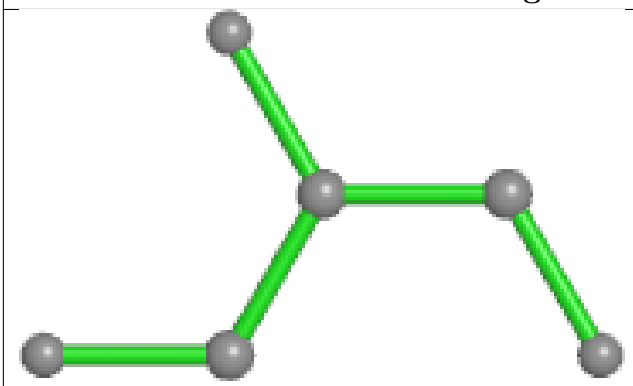


Torsions

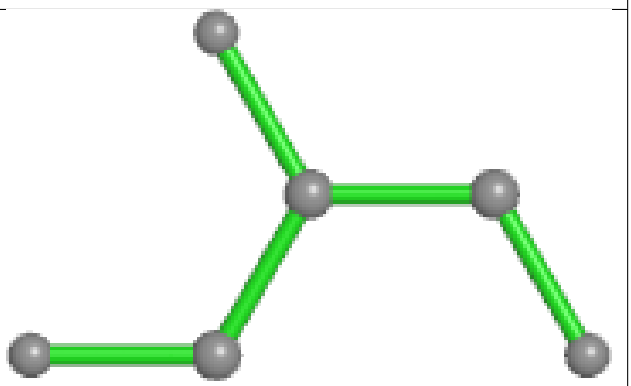


Rings

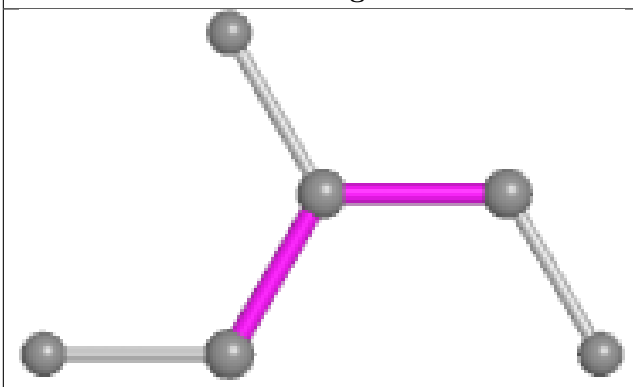
Ligand GOL B 132



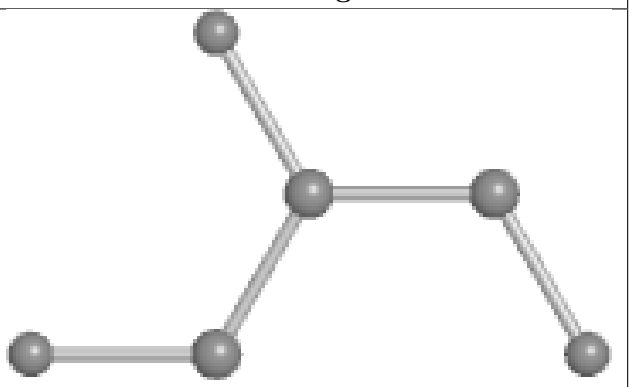
Bond lengths



Bond angles

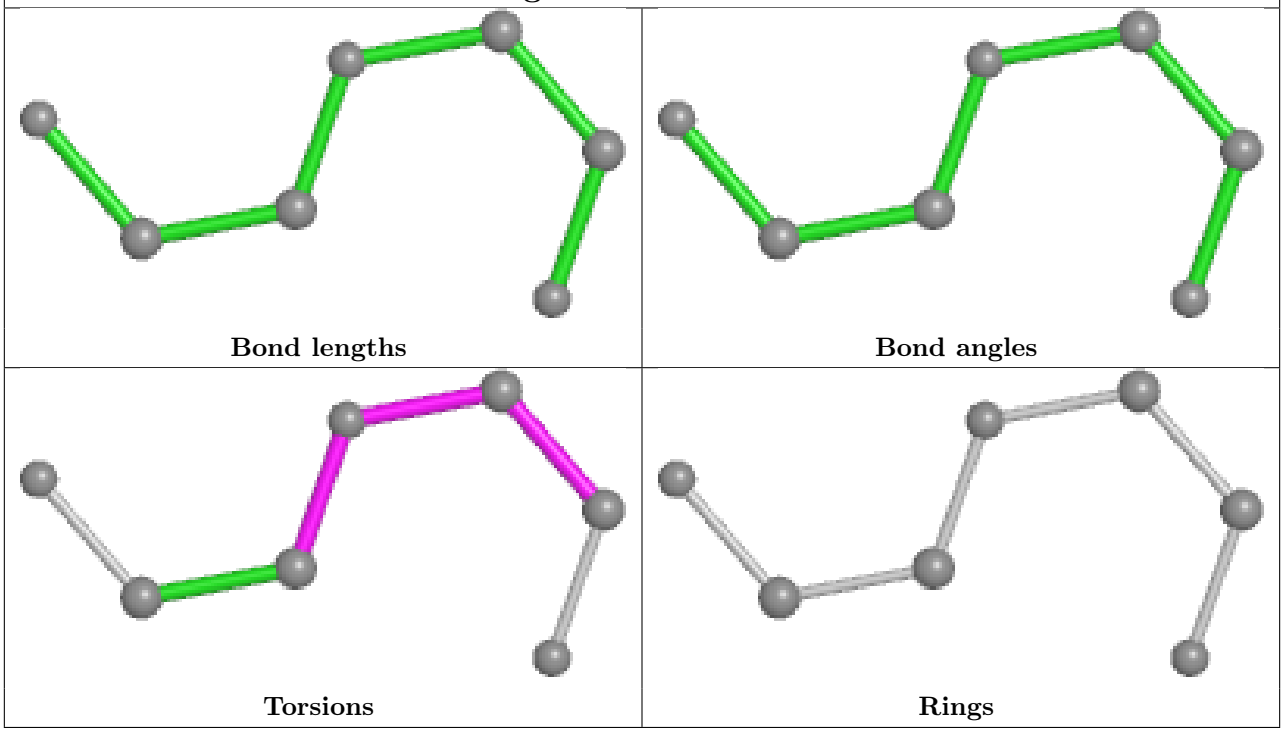


Torsions

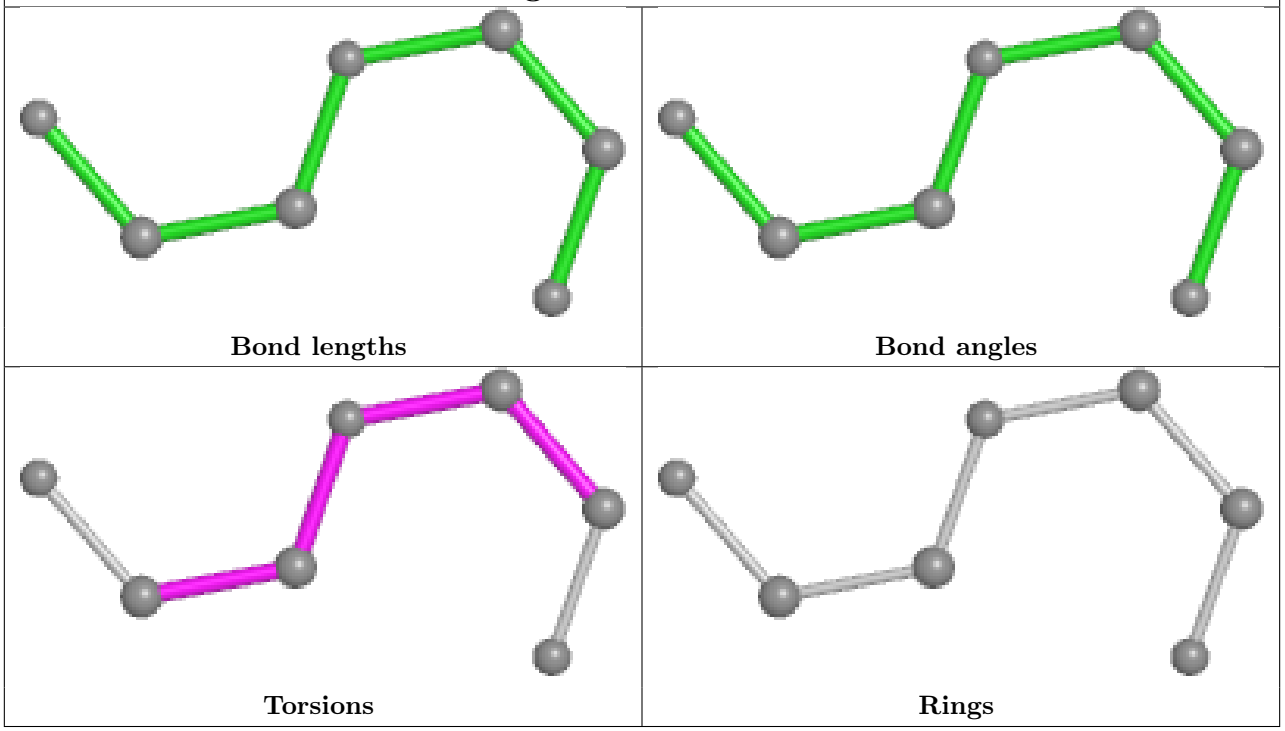


Rings

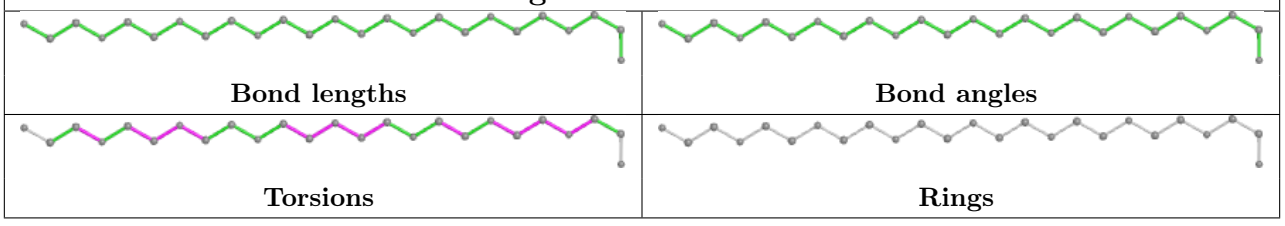
Ligand PEG A 335



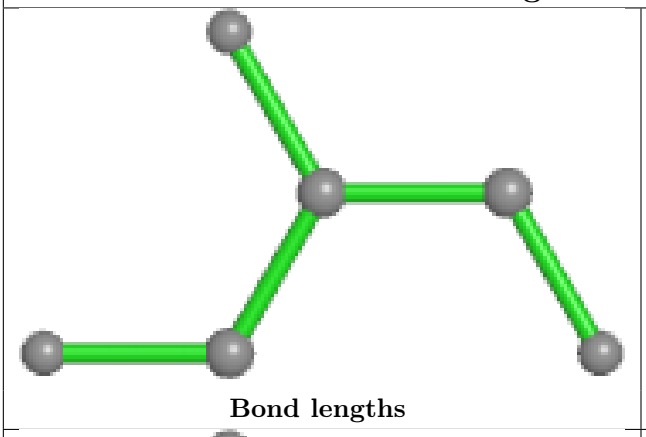
Ligand PEG C 340



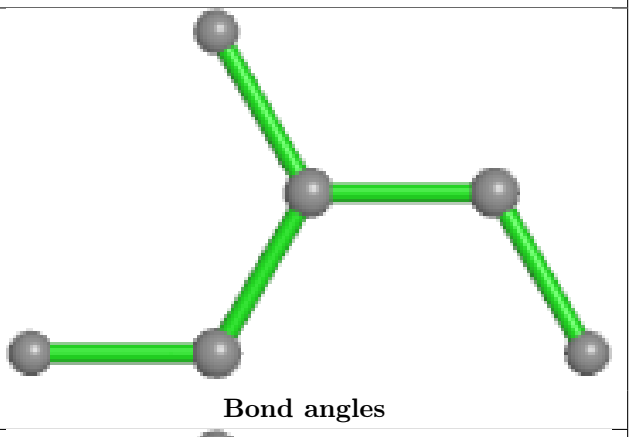
Ligand PE8 A 322



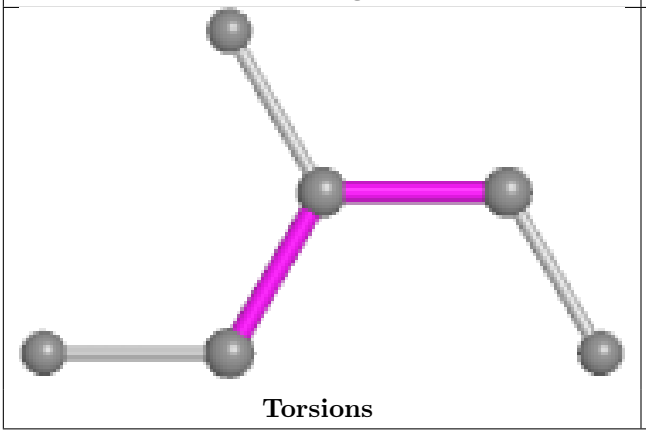
Ligand GOL C 305



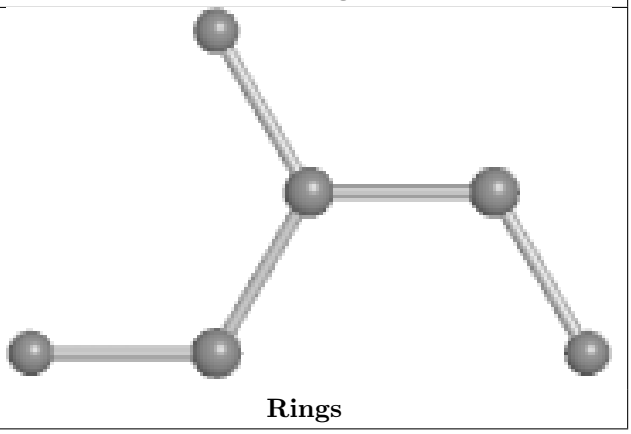
Bond lengths



Bond angles

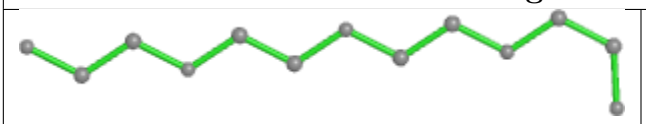


Torsions

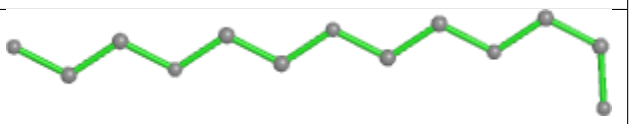


Rings

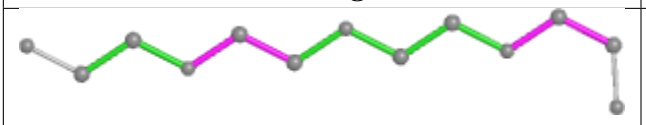
Ligand PG4 A 329



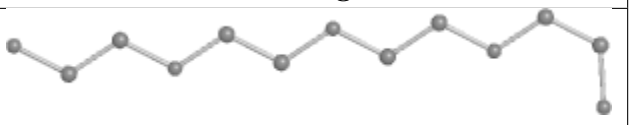
Bond lengths



Bond angles

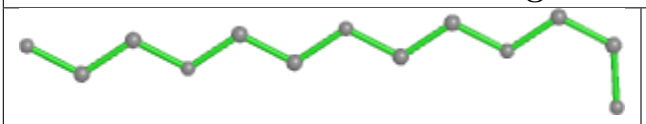


Torsions

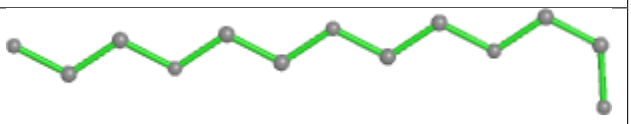


Rings

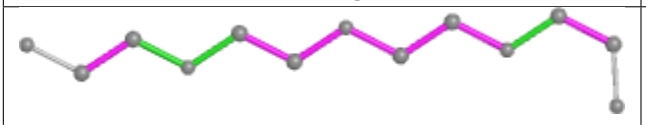
Ligand PG4 B 129



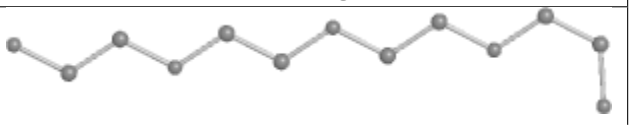
Bond lengths



Bond angles

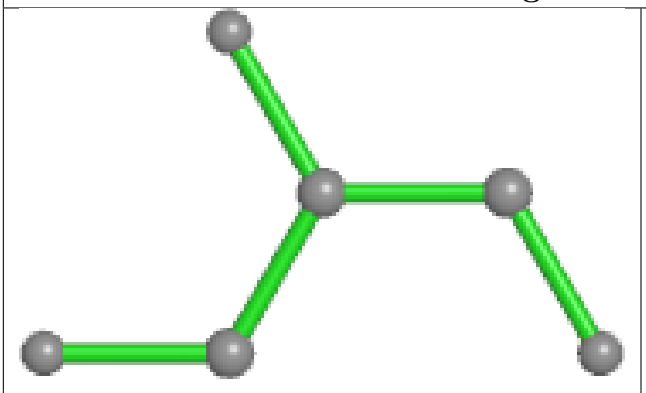


Torsions

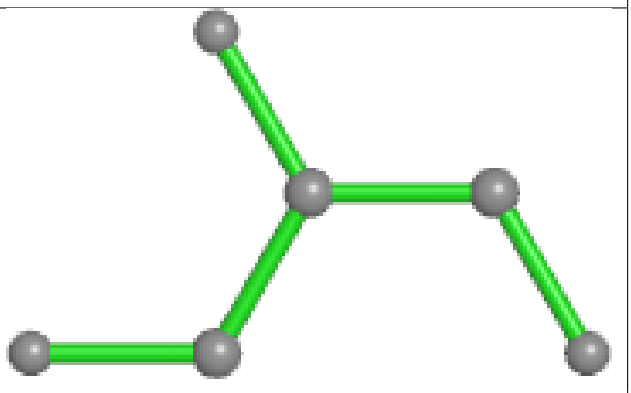


Rings

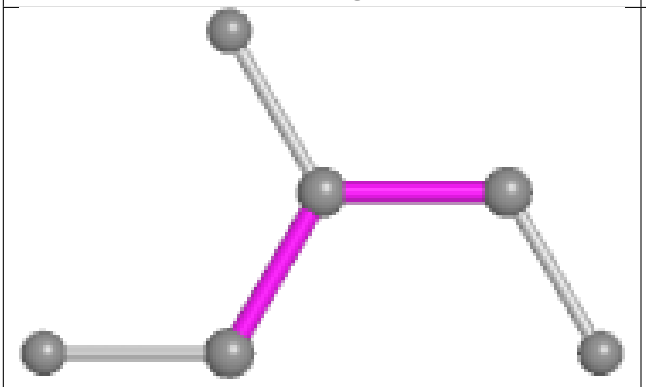
Ligand GOL A 345



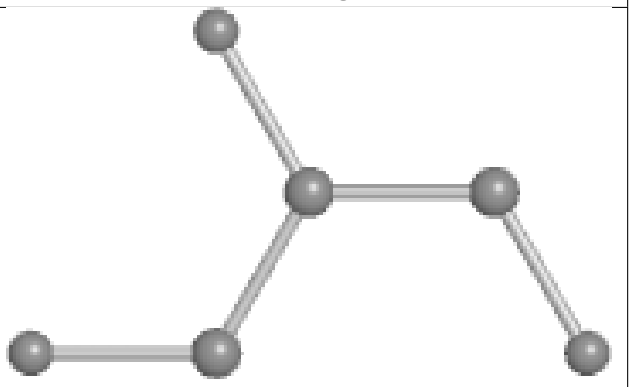
Bond lengths



Bond angles

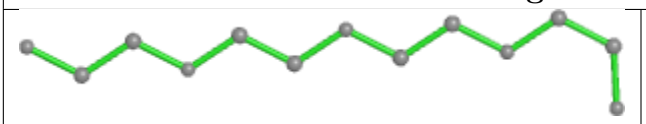


Torsions

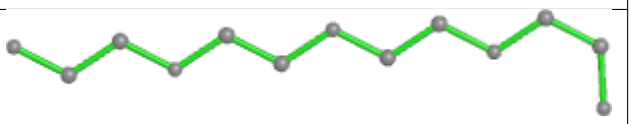


Rings

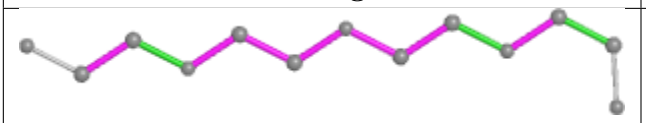
Ligand PG4 C 326



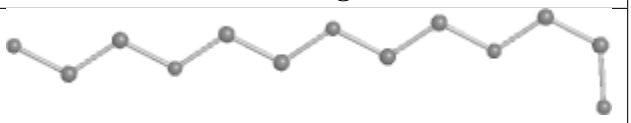
Bond lengths



Bond angles

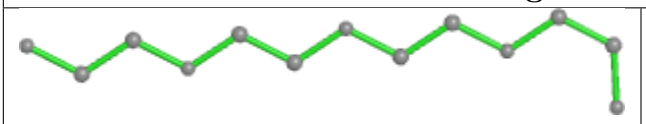


Torsions

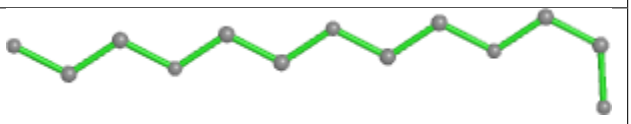


Rings

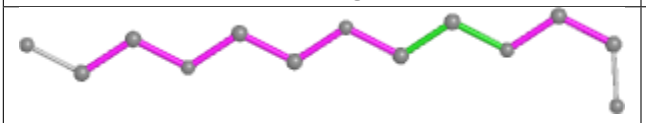
Ligand PG4 A 331



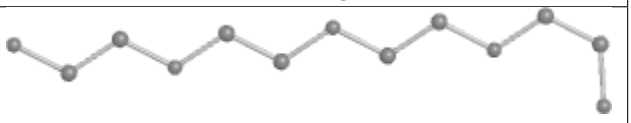
Bond lengths



Bond angles

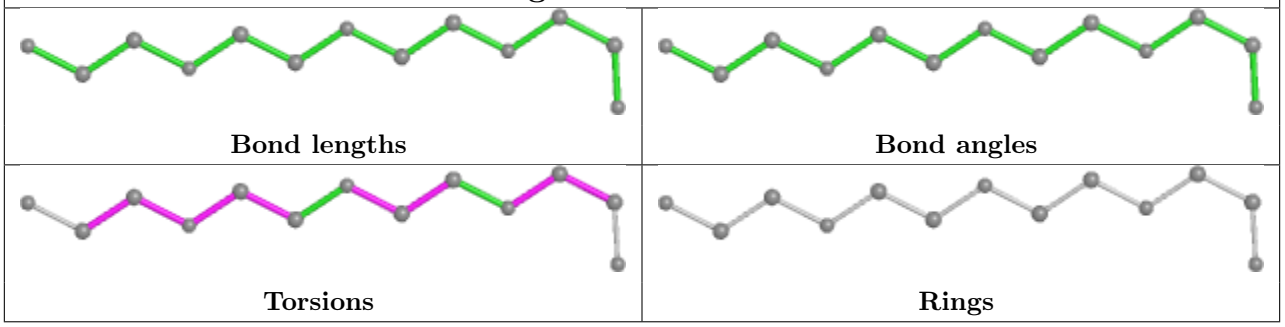


Torsions

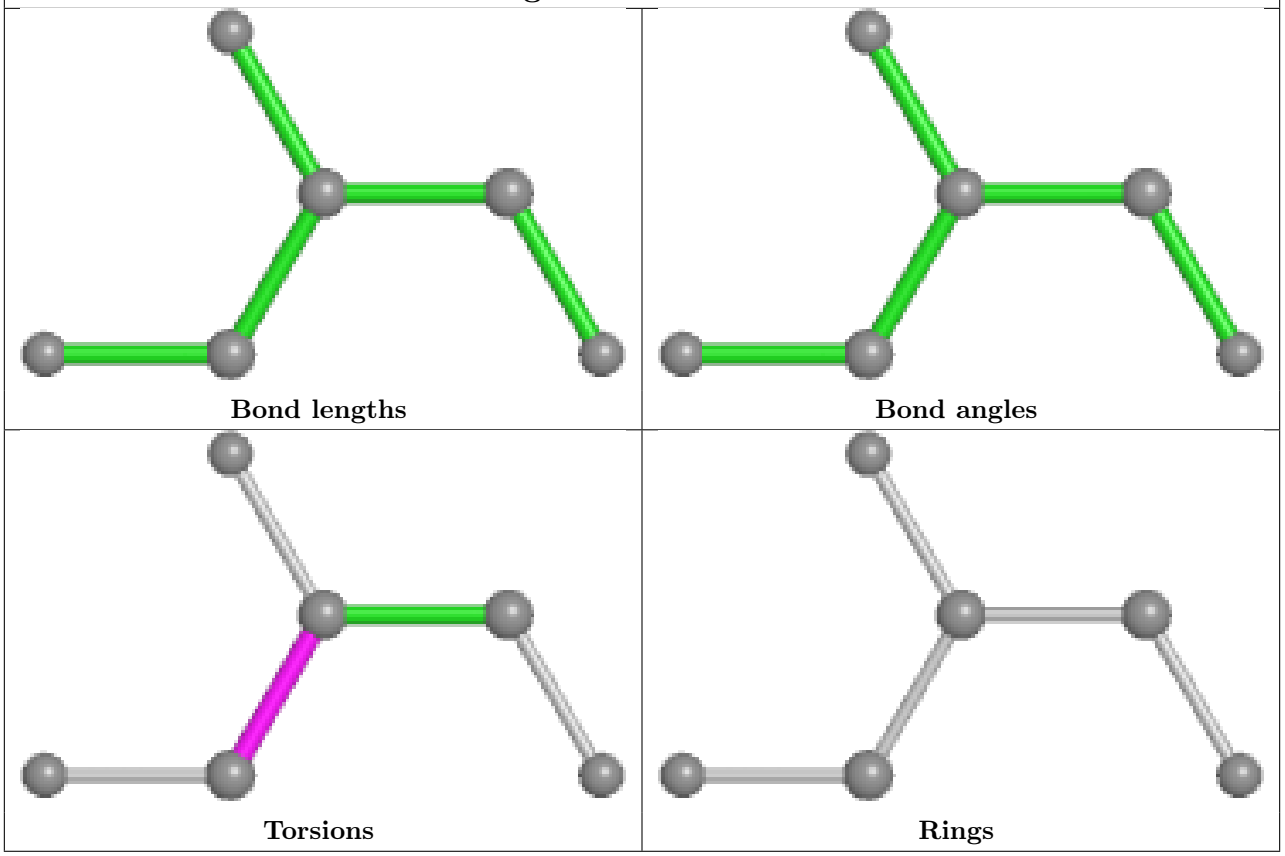


Rings

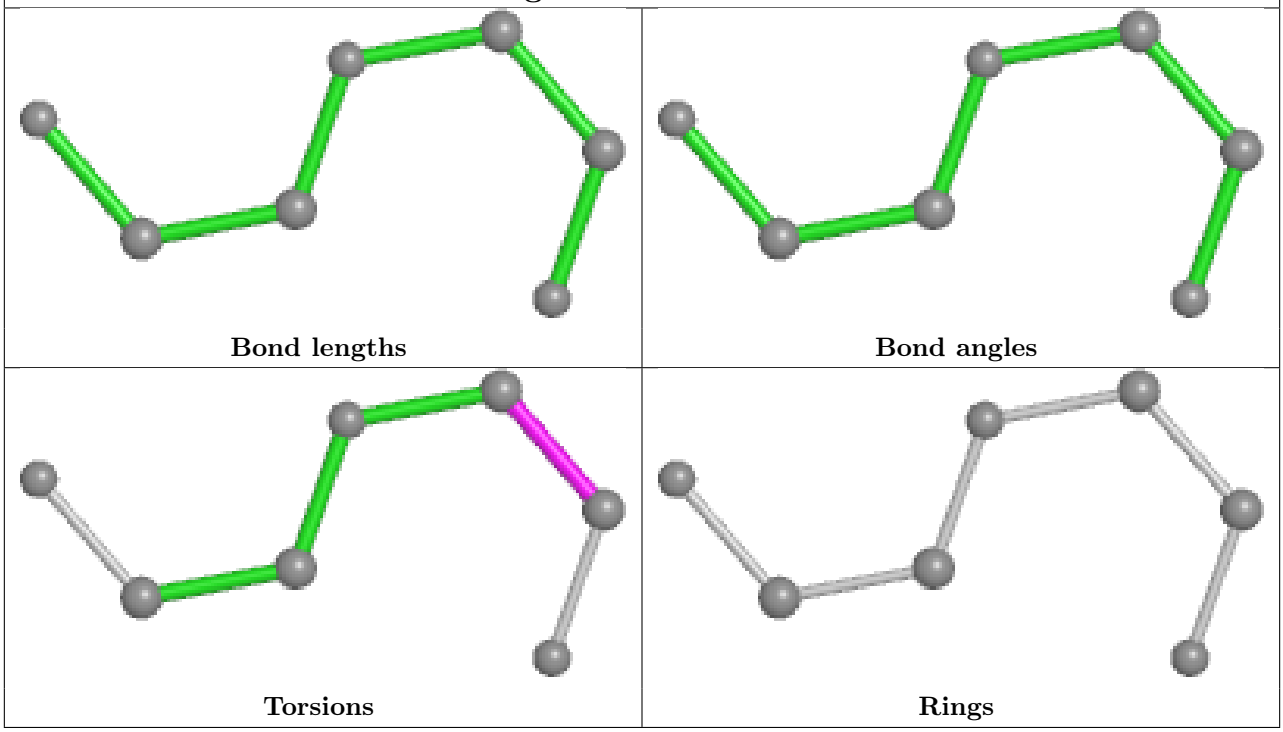
Ligand PG4 E 101



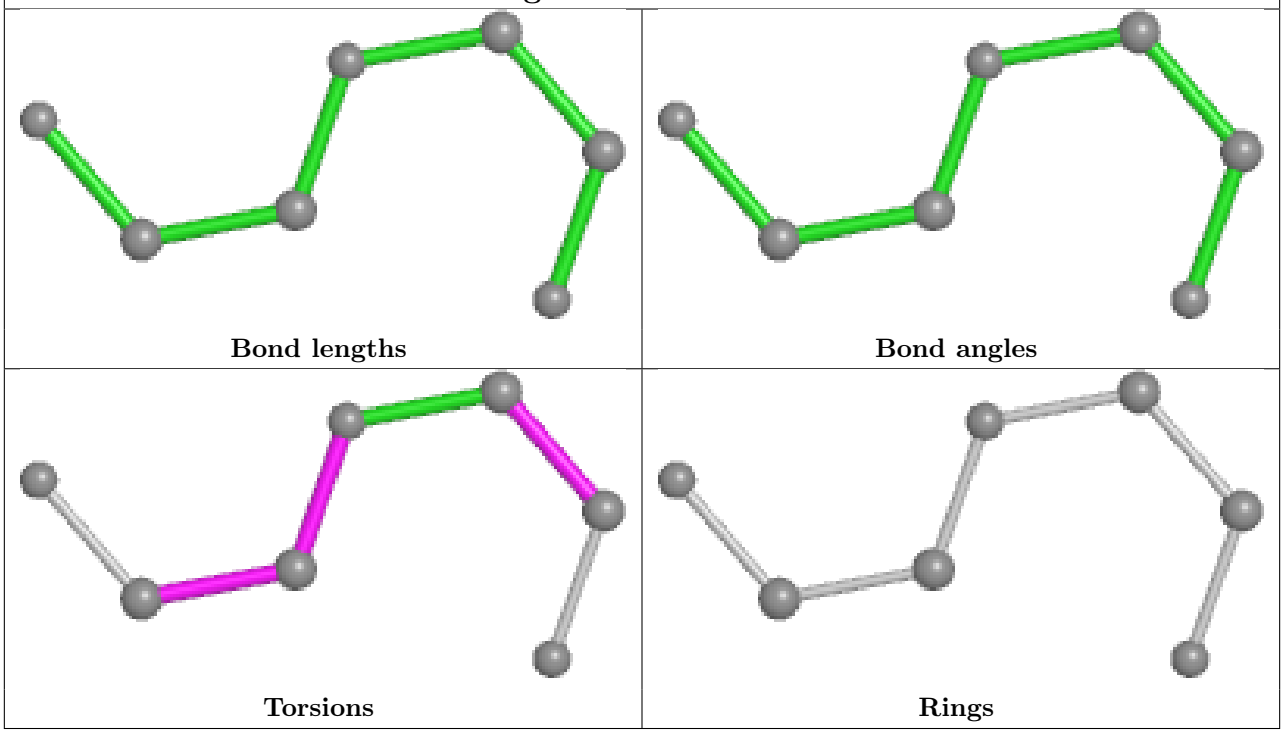
Ligand GOL A 310



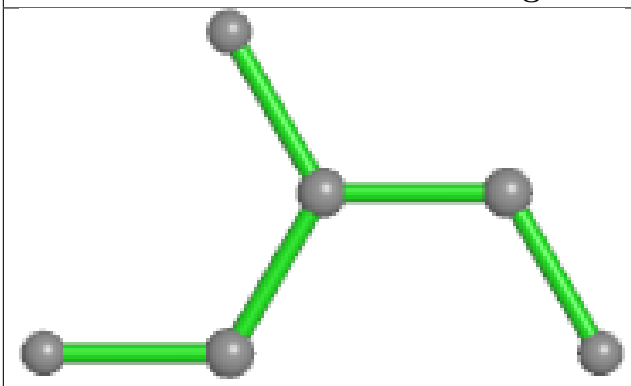
Ligand PEG B 120



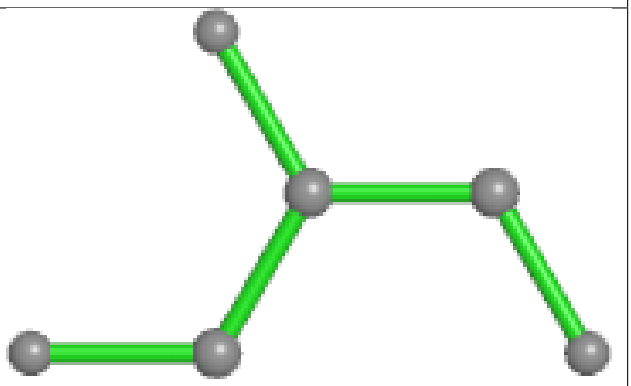
Ligand PEG A 342



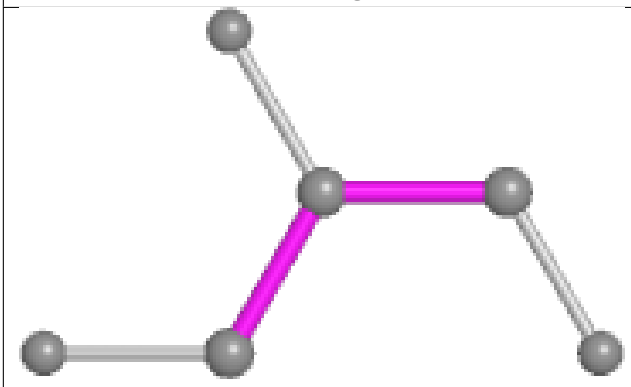
Ligand GOL A 312



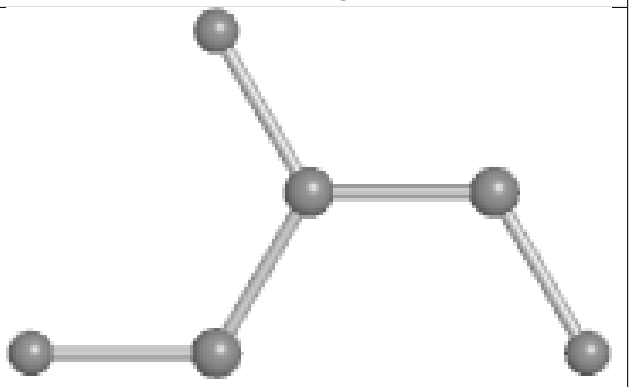
Bond lengths



Bond angles

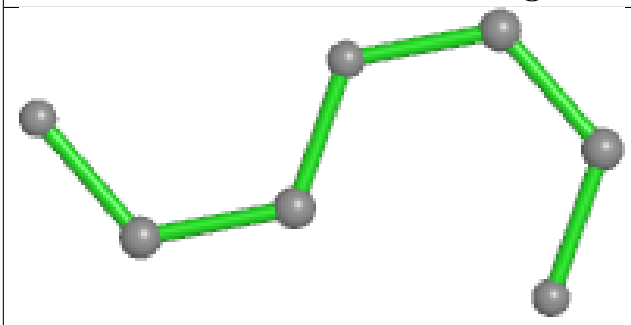


Torsions

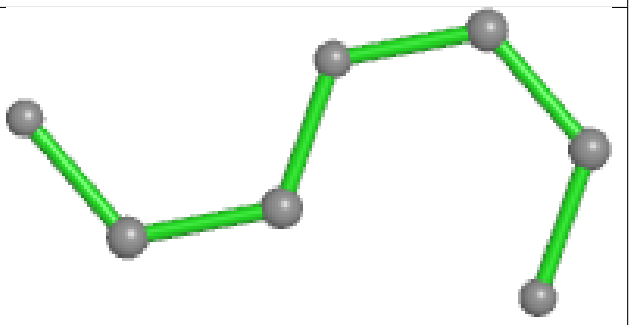


Rings

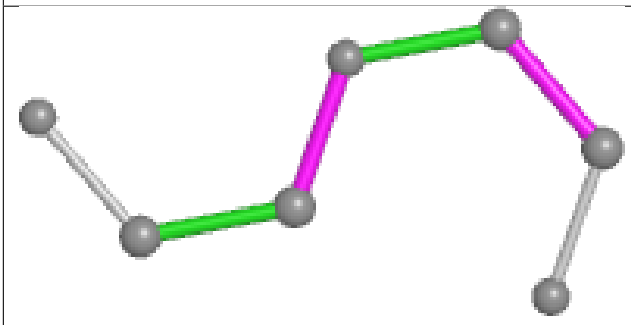
Ligand PEG C 320



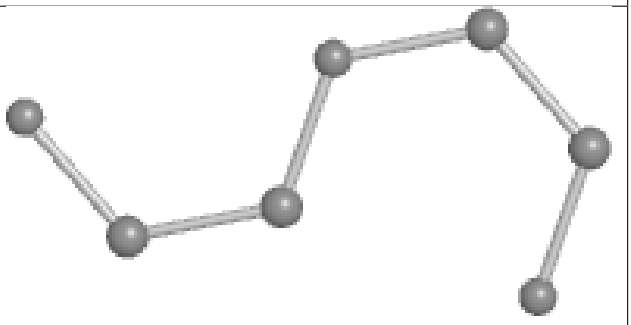
Bond lengths



Bond angles

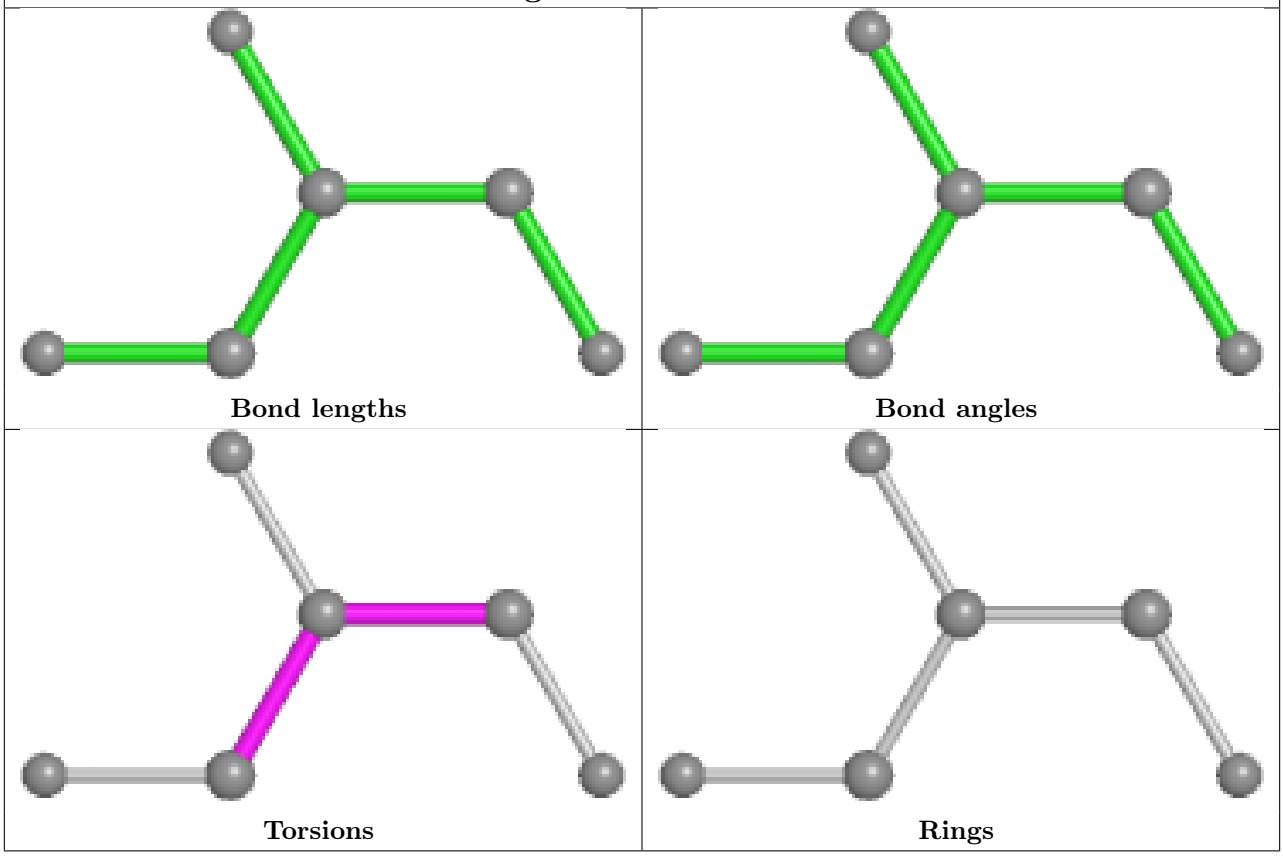


Torsions

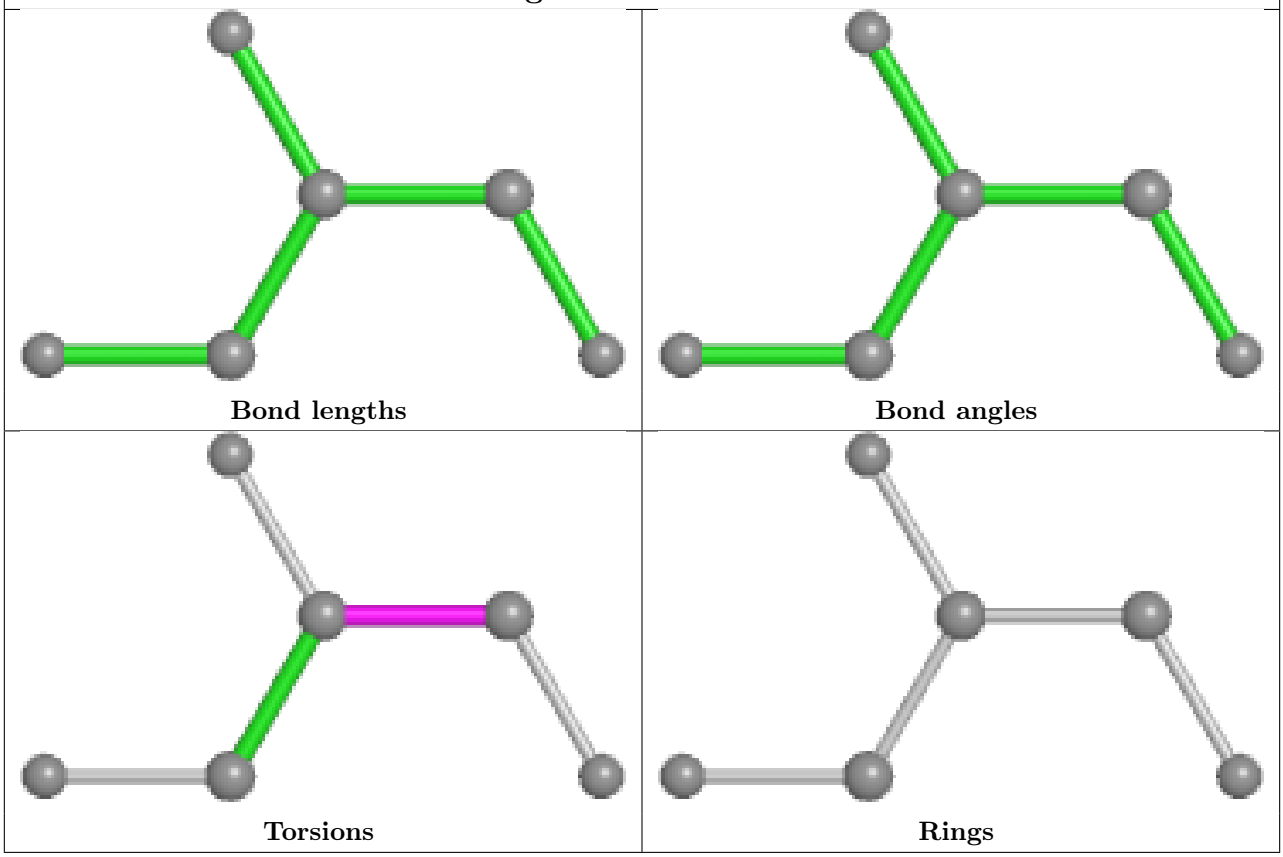


Rings

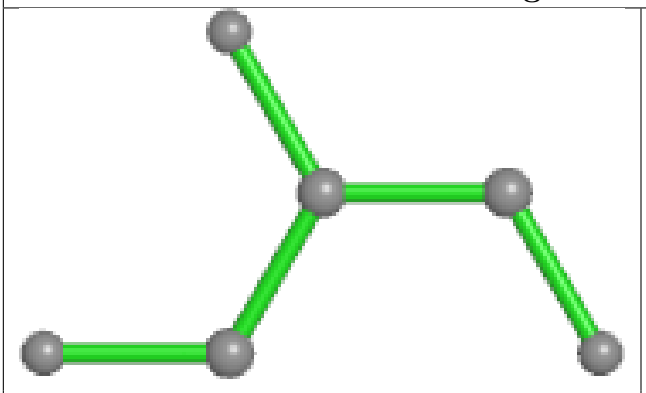
Ligand GOL B 130



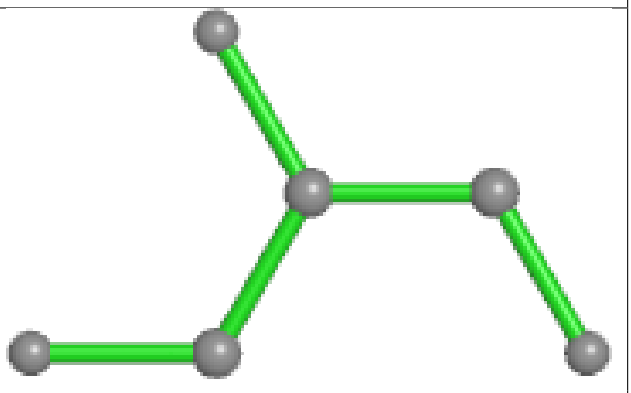
Ligand GOL E 102



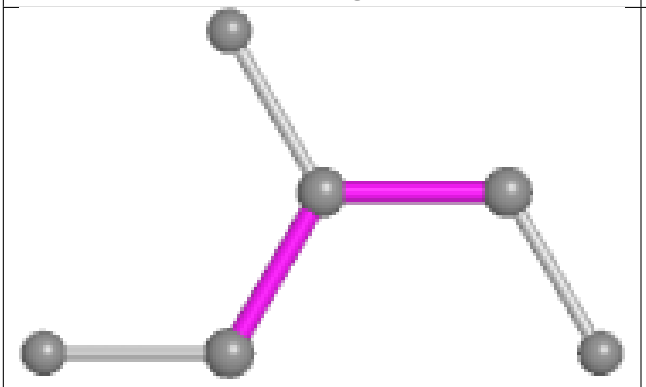
Ligand GOL C 308



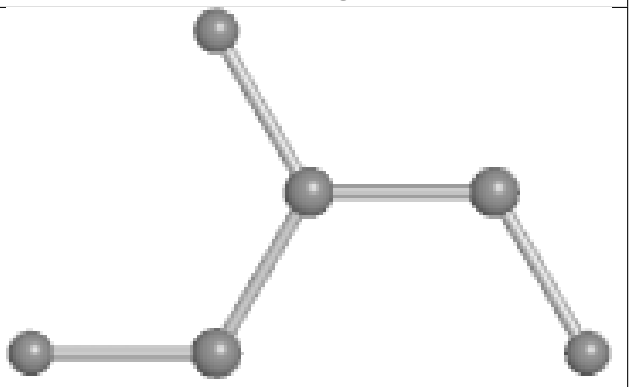
Bond lengths



Bond angles

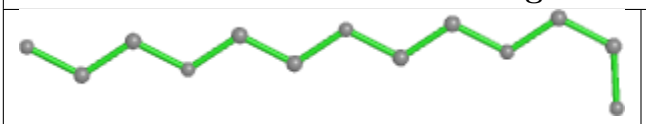


Torsions

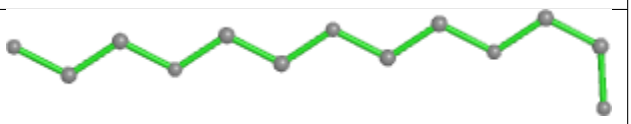


Rings

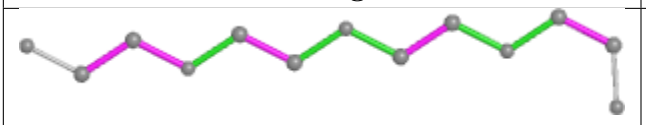
Ligand PG4 D 117



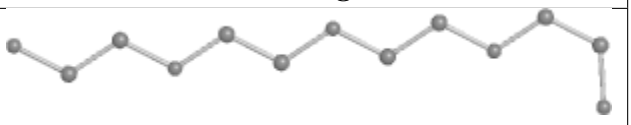
Bond lengths



Bond angles

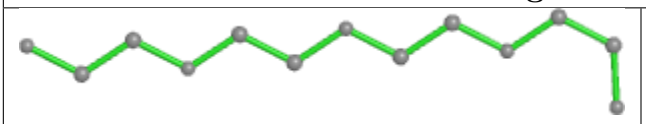


Torsions

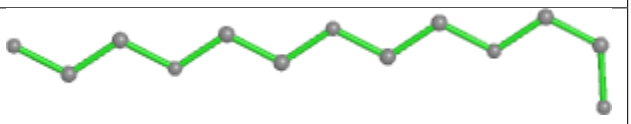


Rings

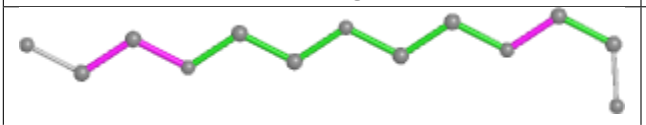
Ligand PG4 C 332



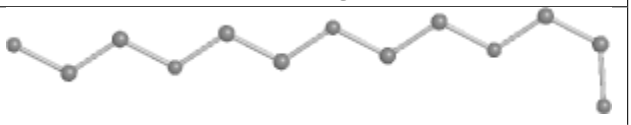
Bond lengths



Bond angles

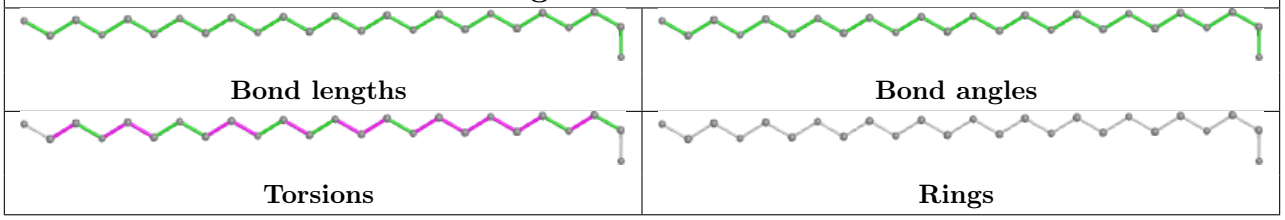


Torsions

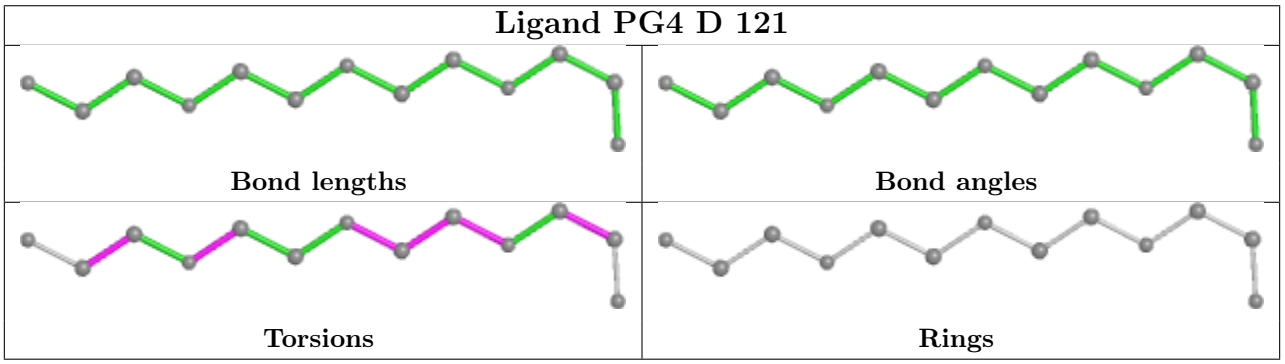


Rings

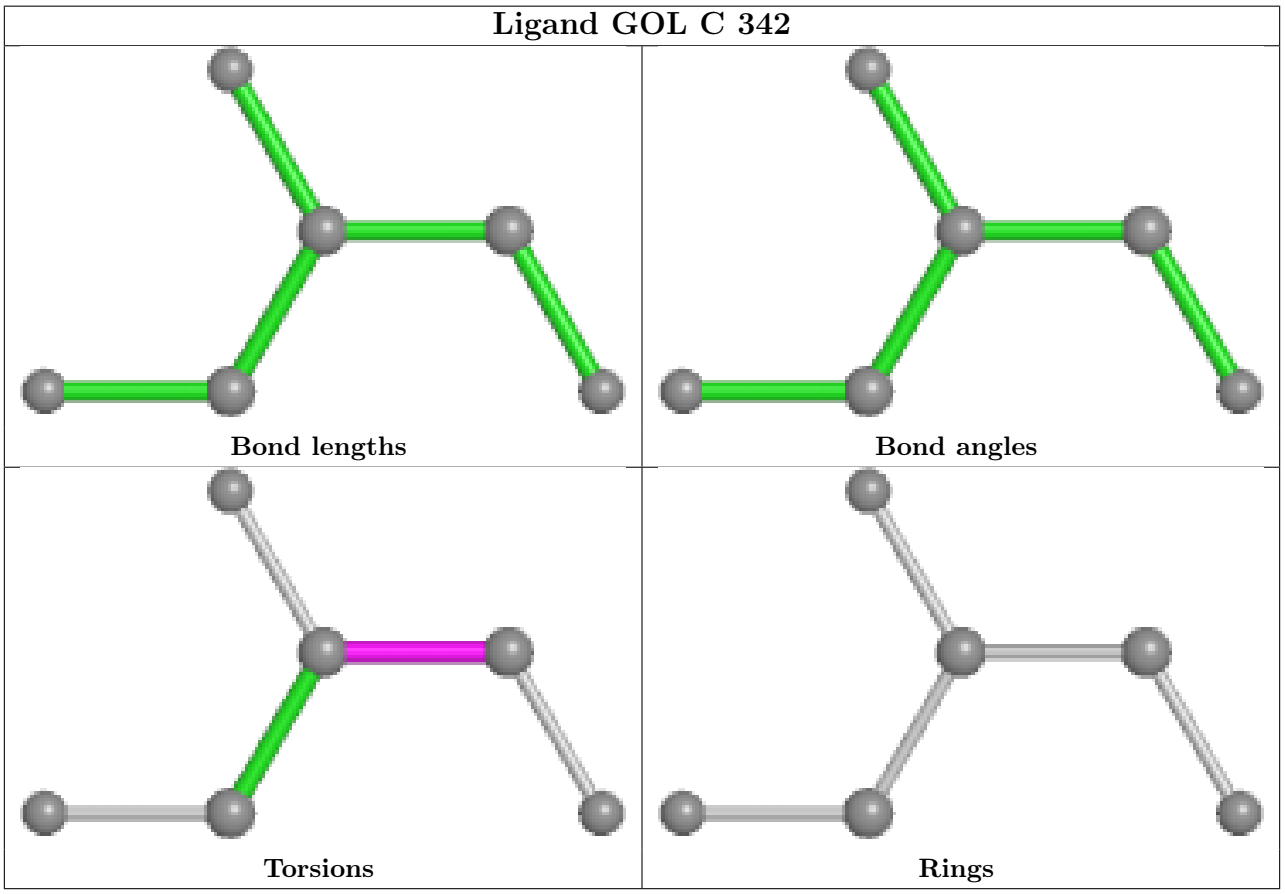
Ligand PE8 E 112



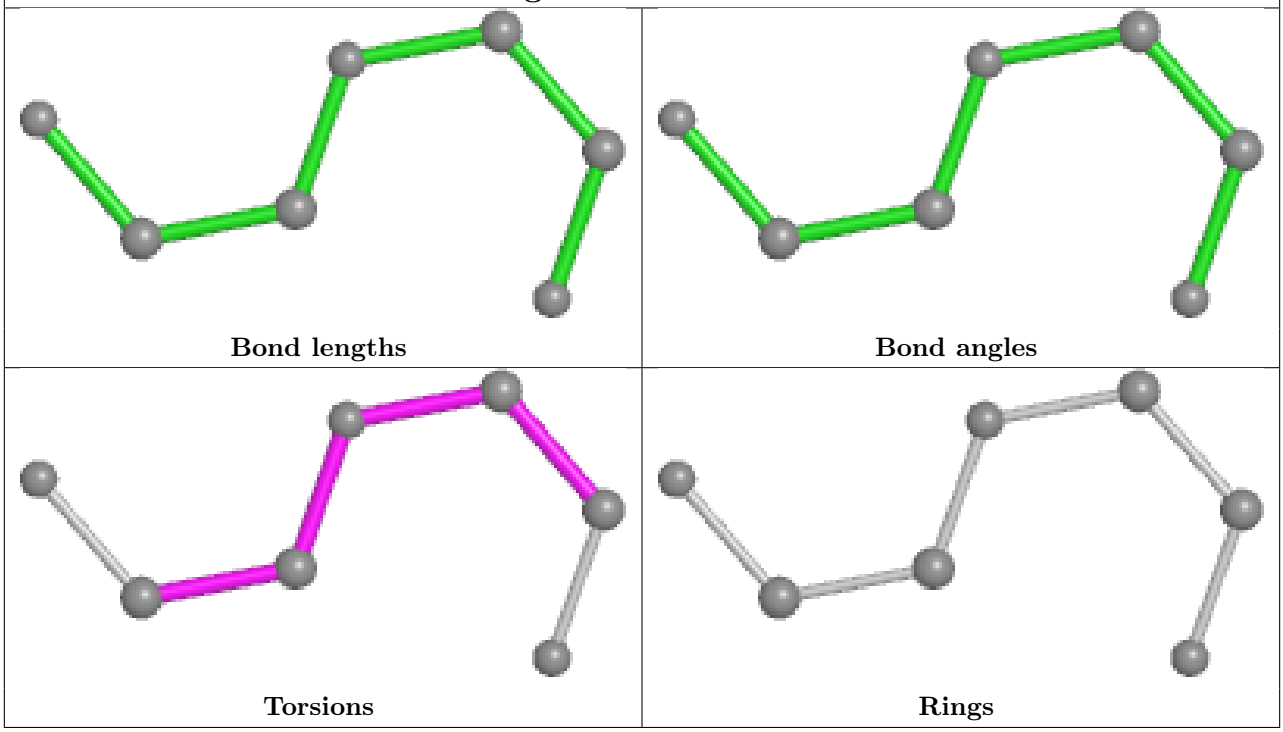
Ligand PG4 D 121



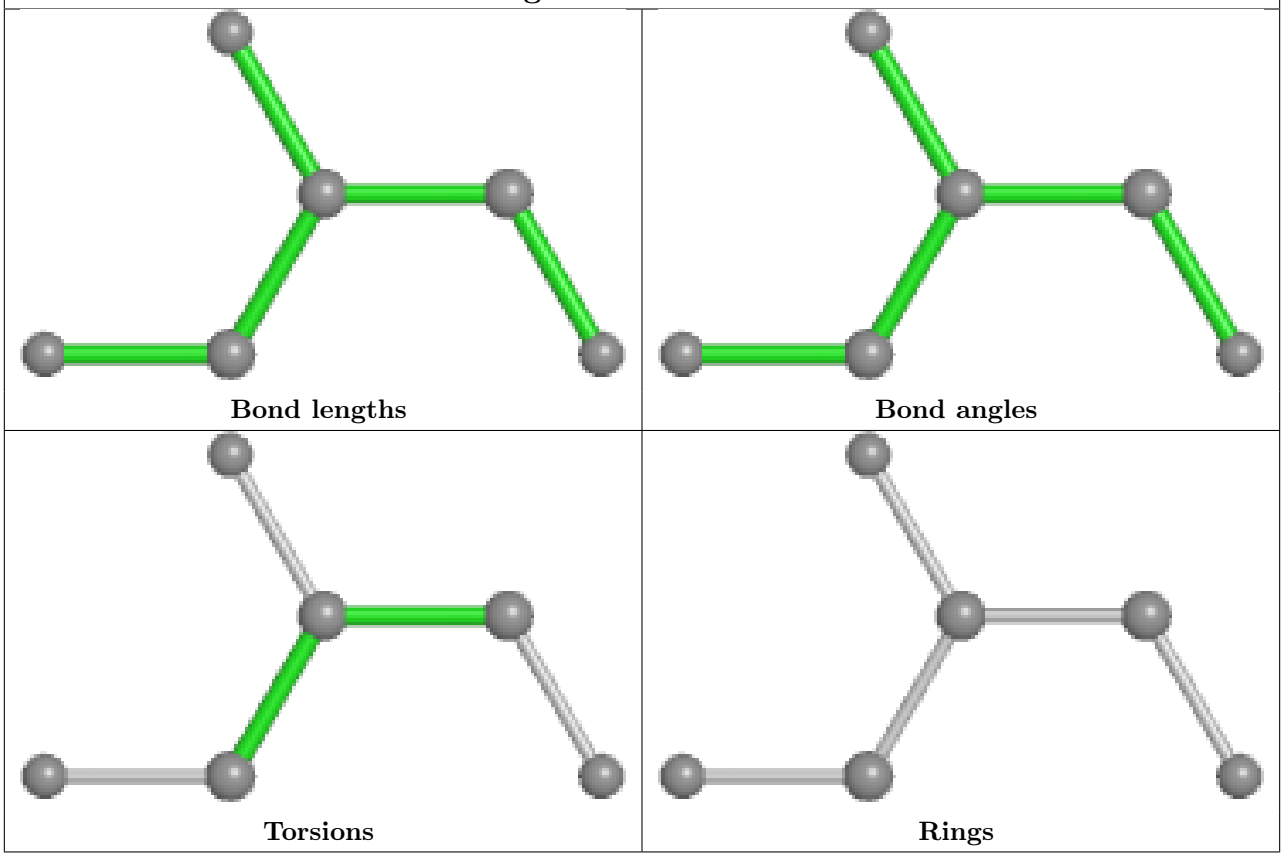
Ligand GOL C 342



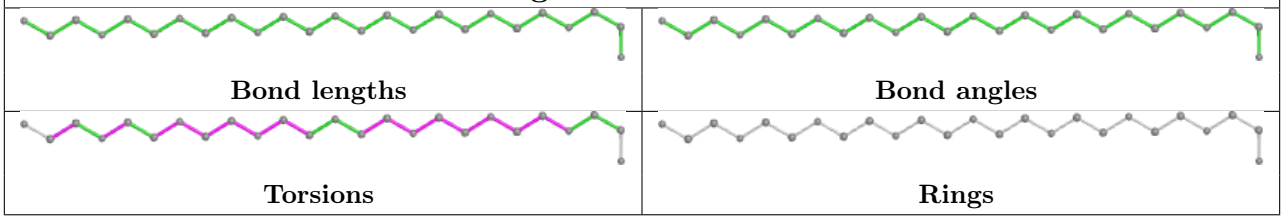
Ligand PEG C 317



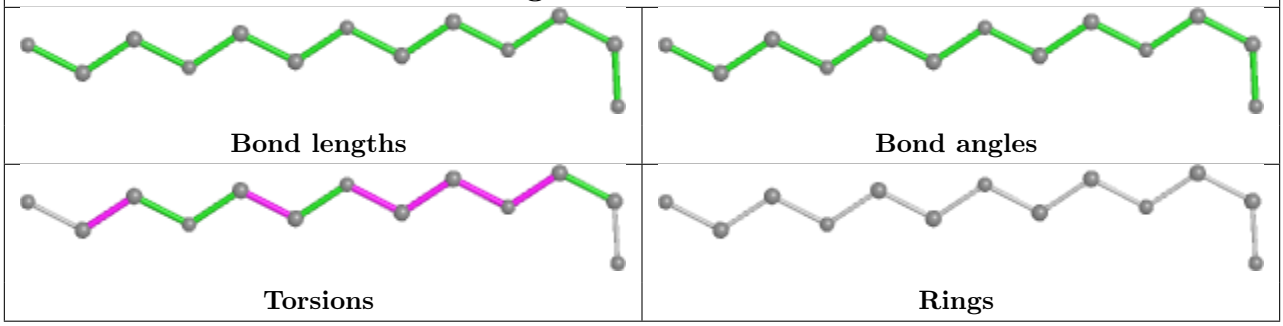
Ligand GOL A 311



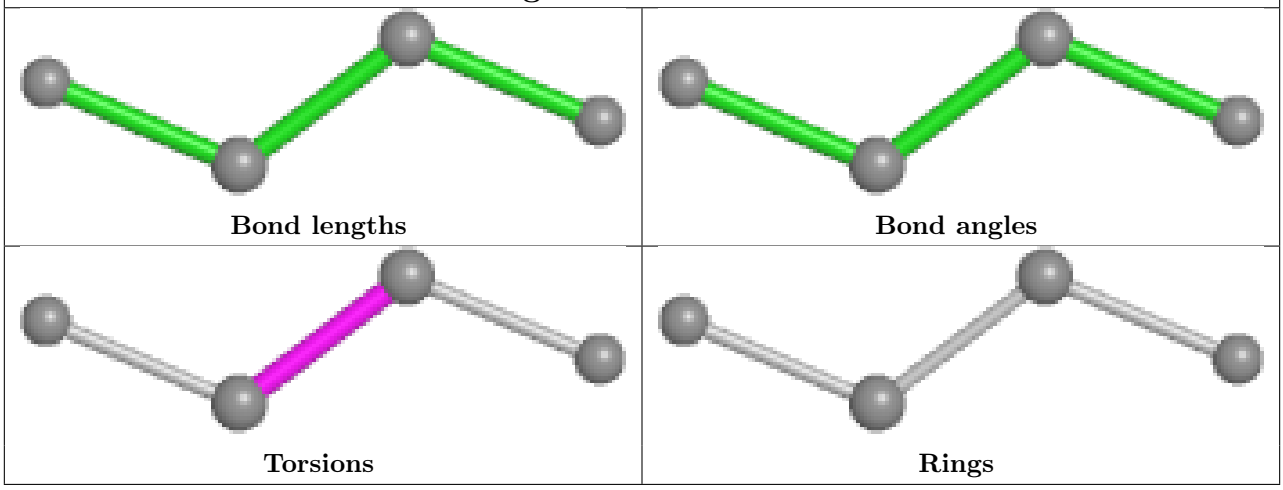
Ligand PE8 E 113



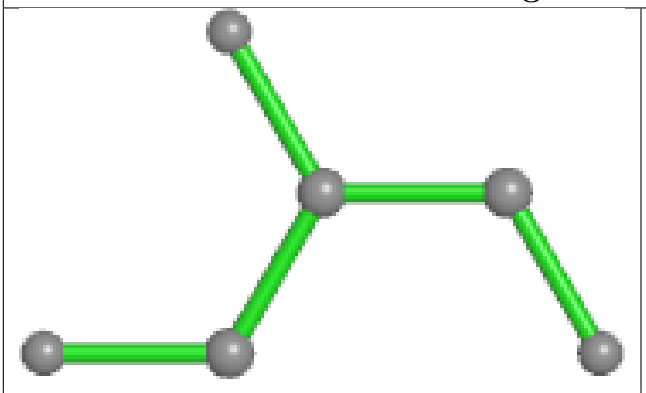
Ligand PG4 D 119



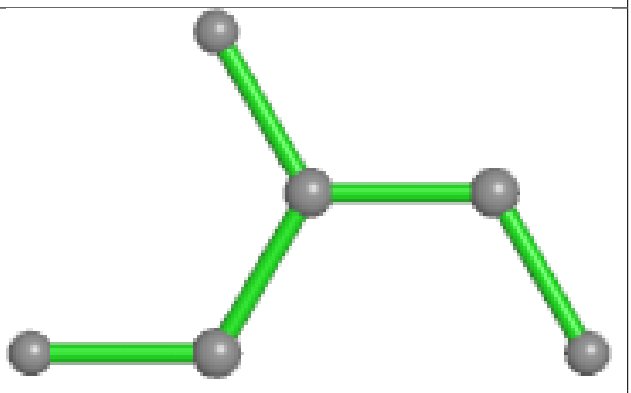
Ligand EDO A 326



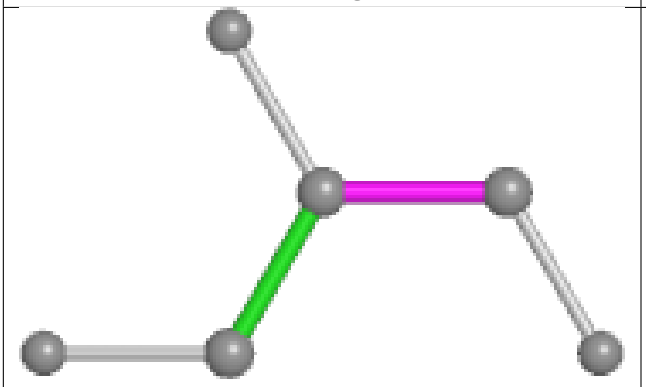
Ligand GOL A 340



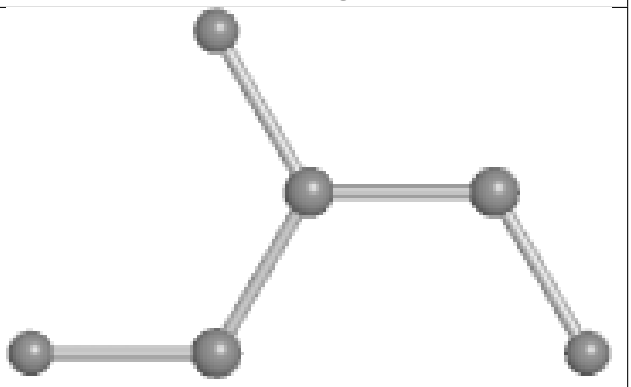
Bond lengths



Bond angles

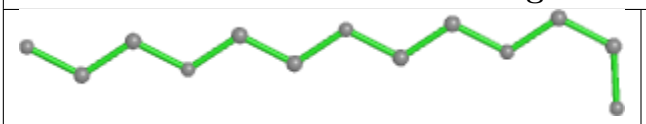


Torsions

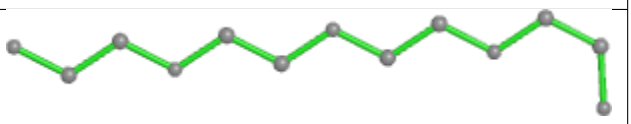


Rings

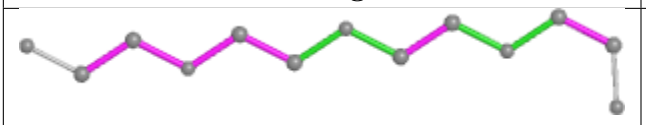
Ligand PG4 C 327



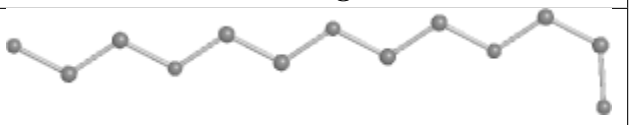
Bond lengths



Bond angles

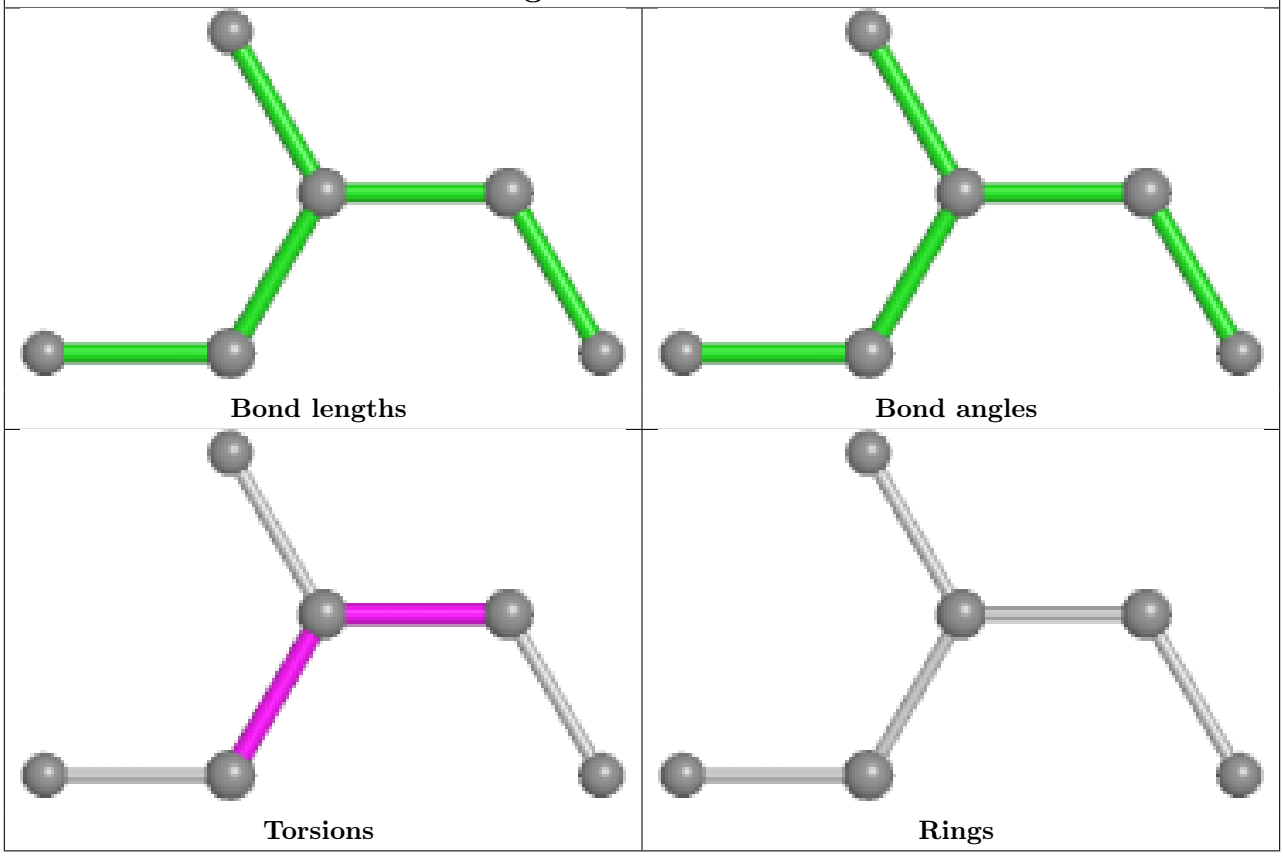


Torsions

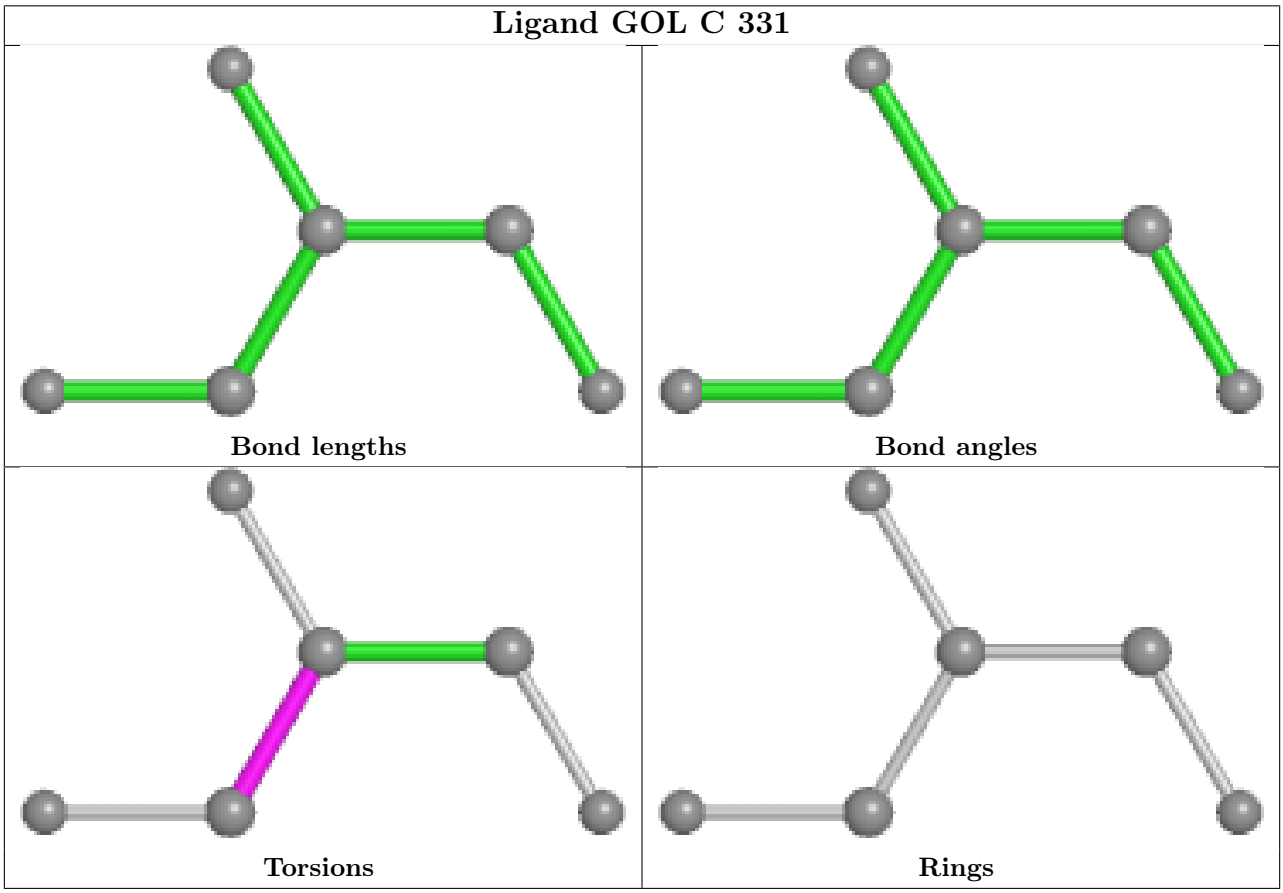


Rings

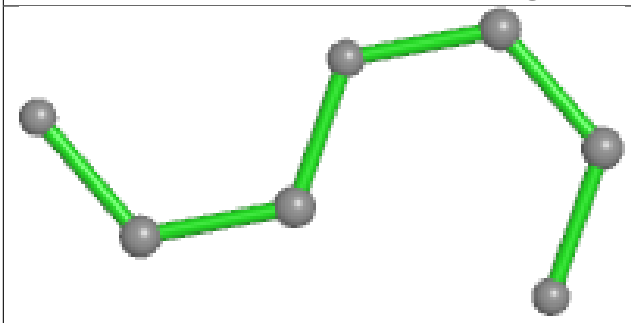
Ligand GOL C 306



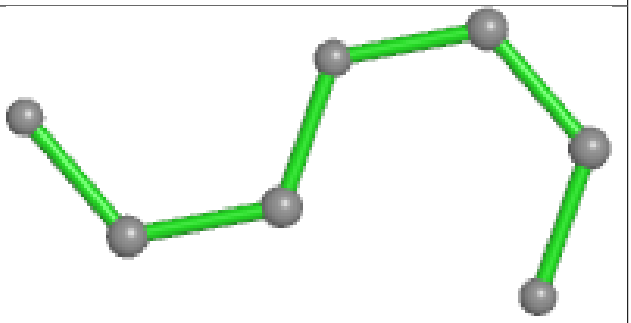
Ligand GOL C 331



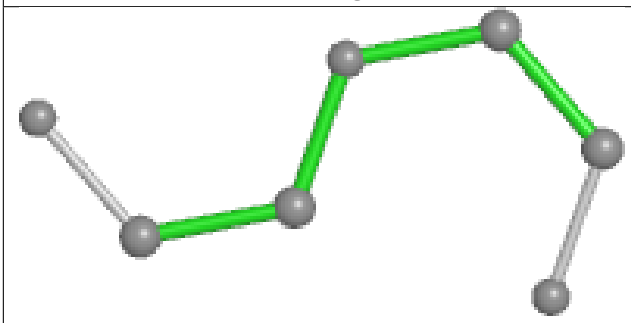
Ligand PEG B 139



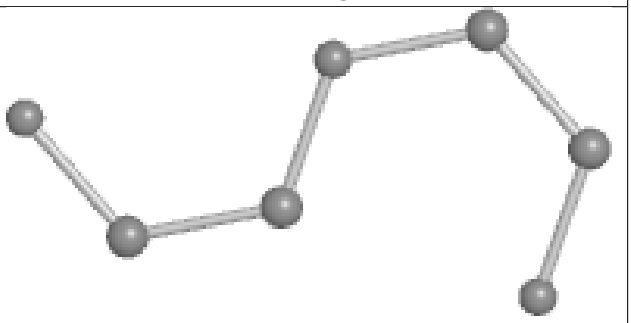
Bond lengths



Bond angles

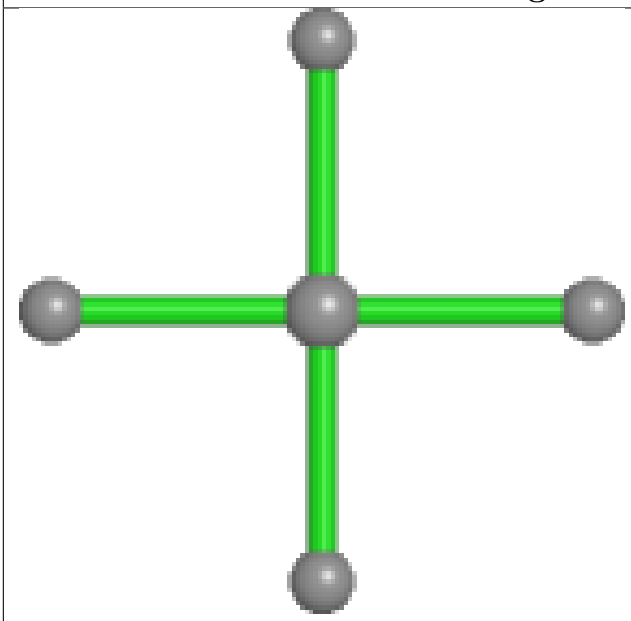


Torsions

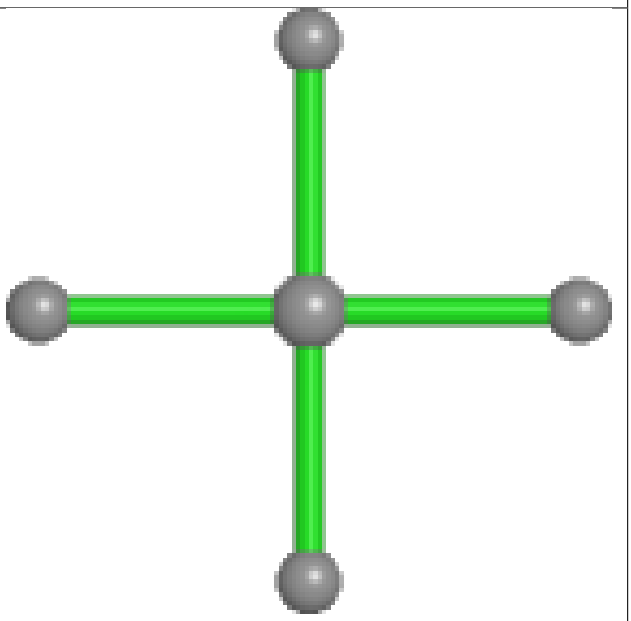


Rings

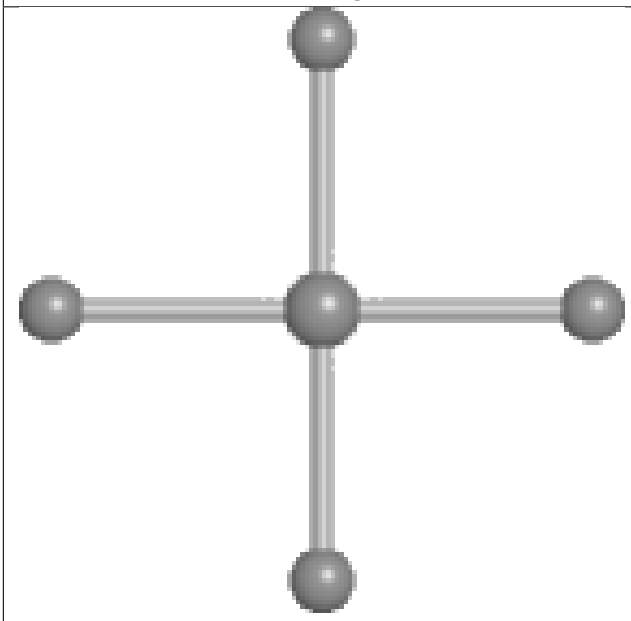
Ligand SO4 D 112



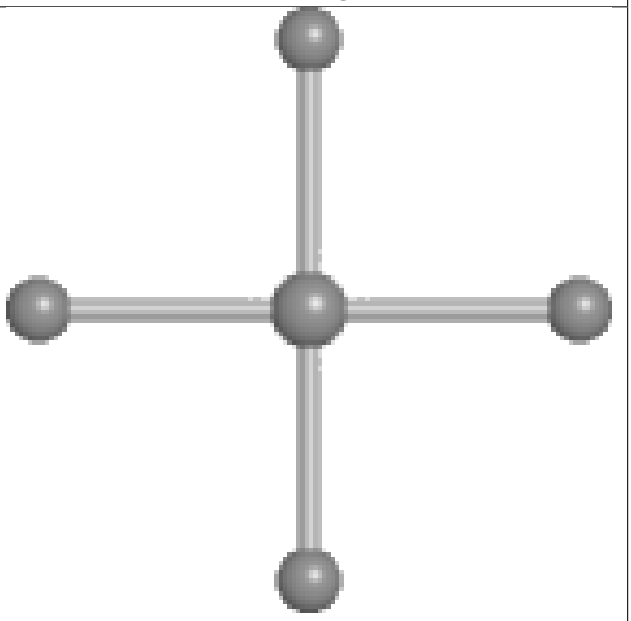
Bond lengths



Bond angles

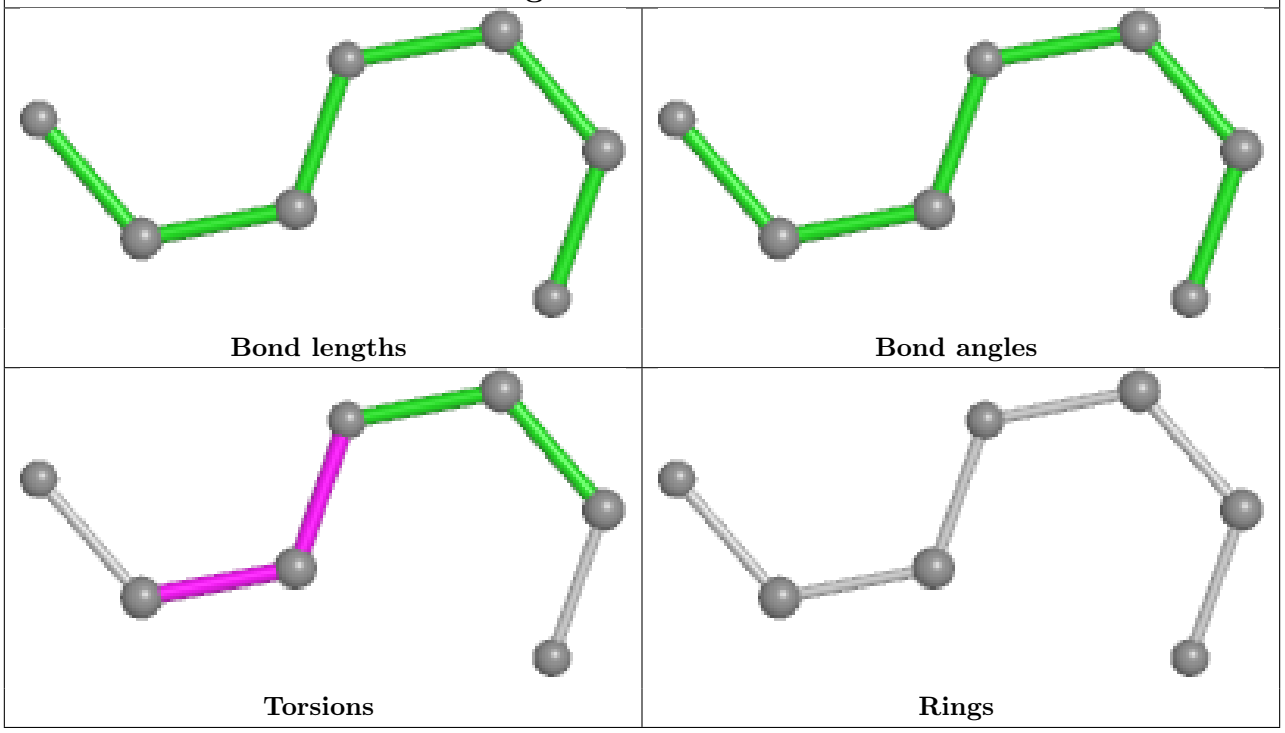


Torsions

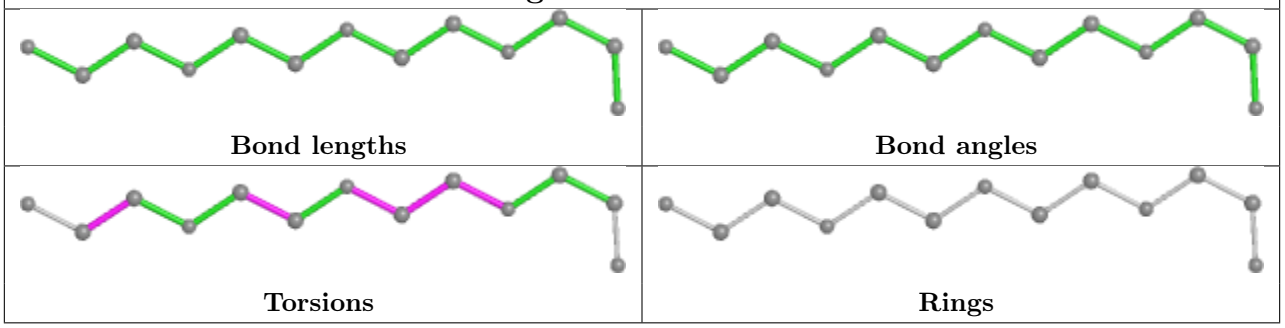


Rings

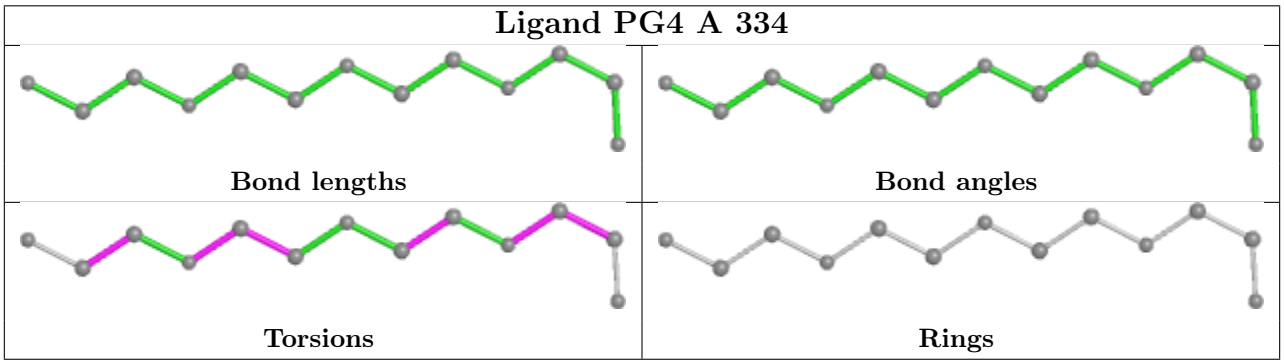
Ligand PEG E 109



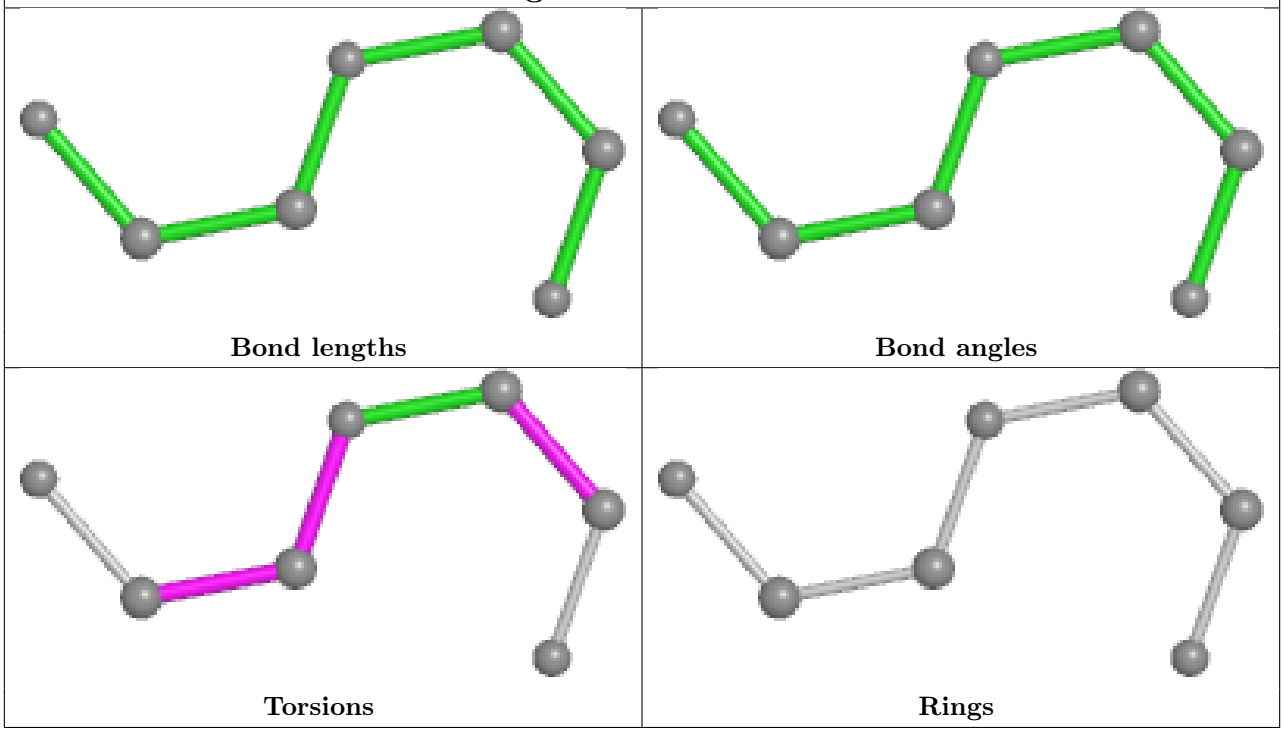
Ligand PG4 D 116



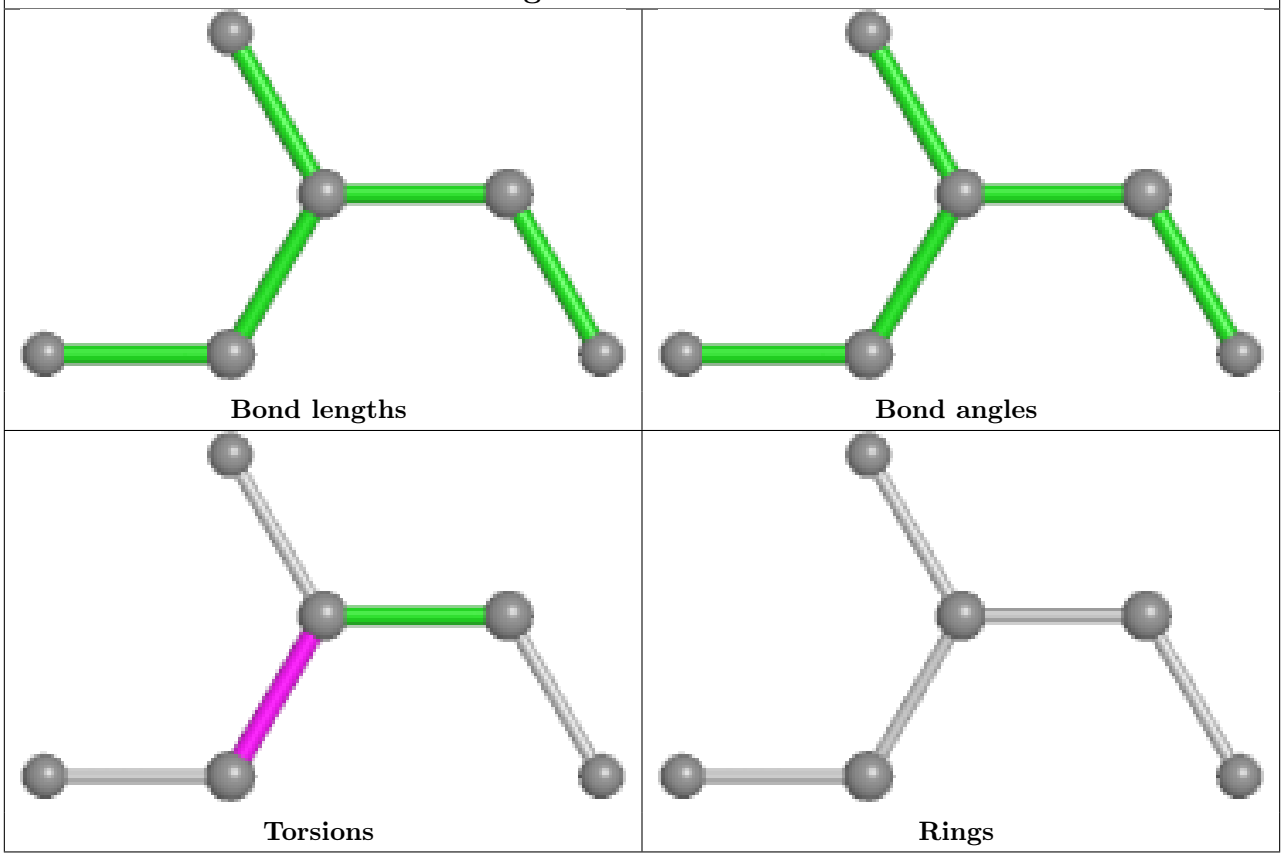
Ligand PG4 A 334



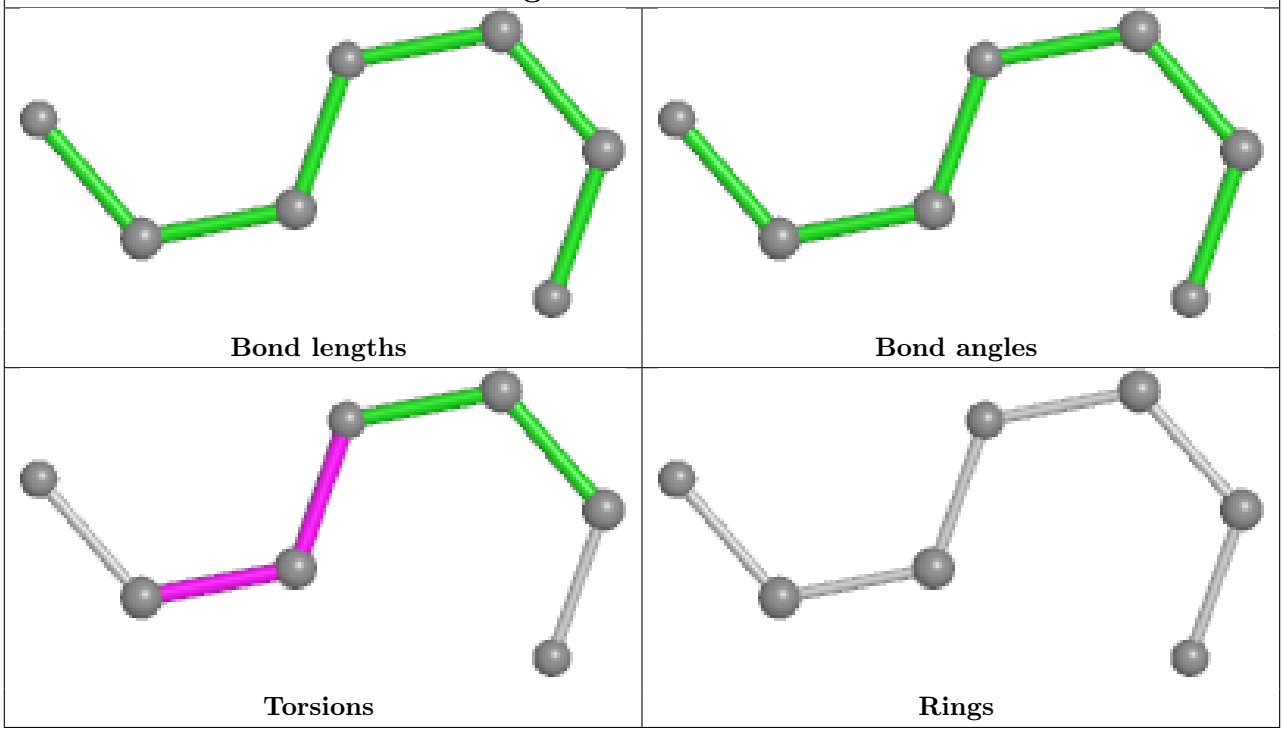
Ligand PEG E 110



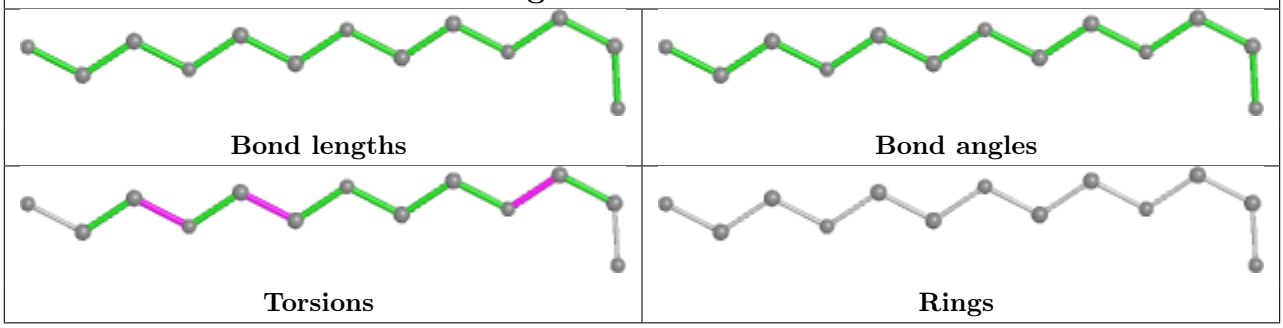
Ligand GOL A 301



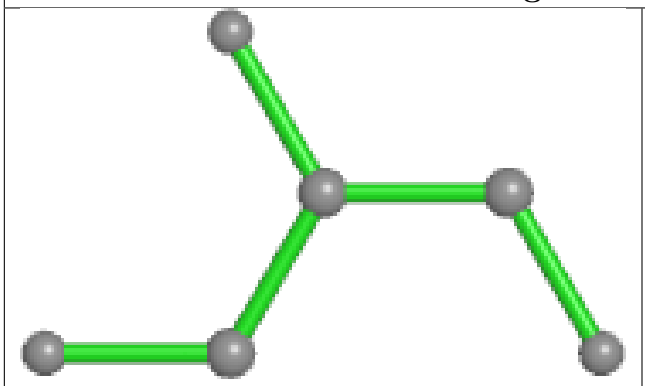
Ligand PEG D 115



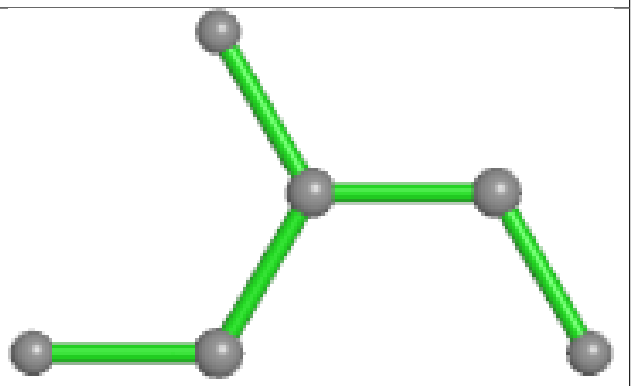
Ligand PG4 C 337



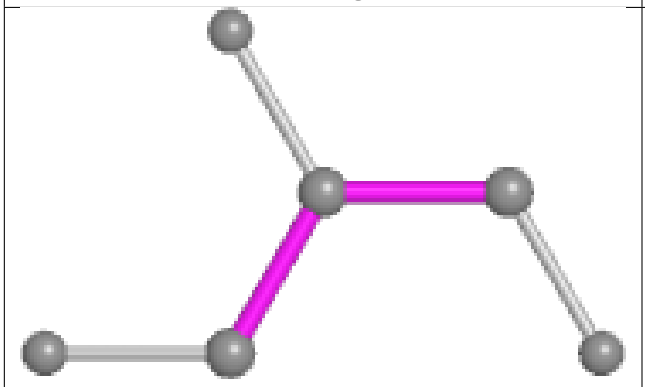
Ligand GOL A 314



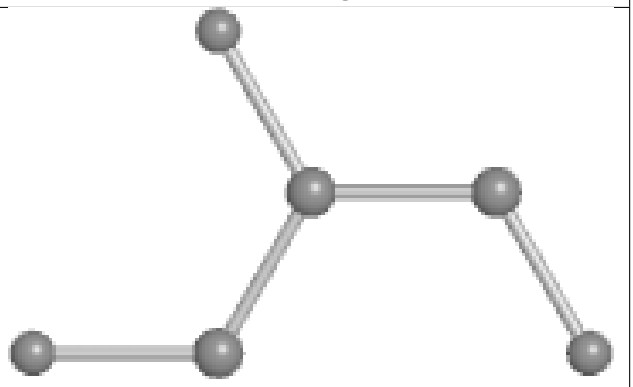
Bond lengths



Bond angles

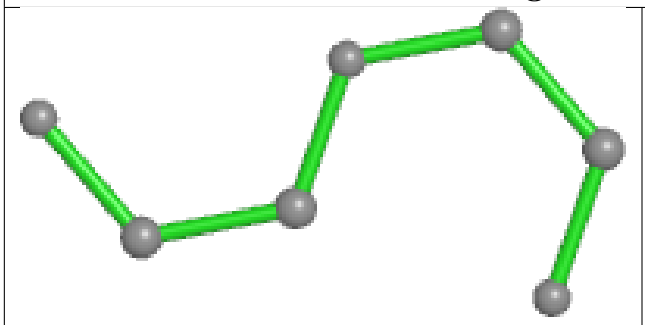


Torsions

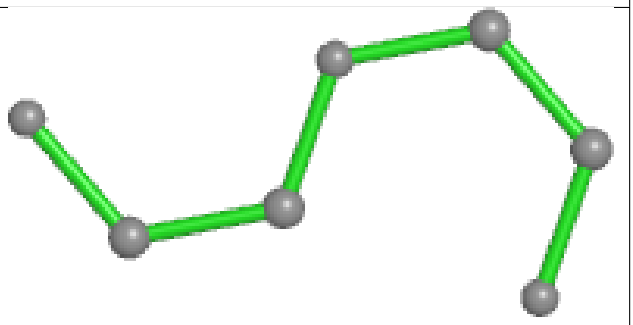


Rings

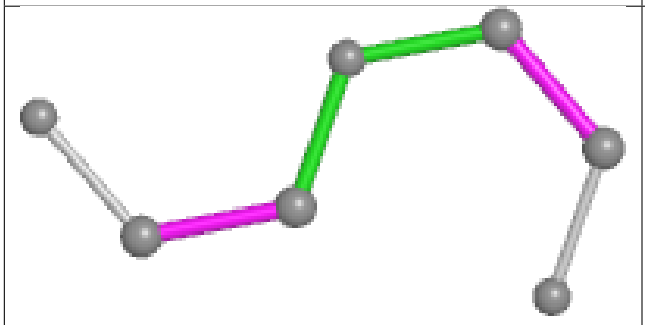
Ligand PEG E 108



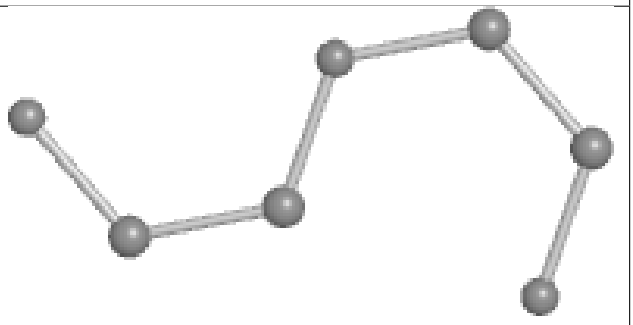
Bond lengths



Bond angles

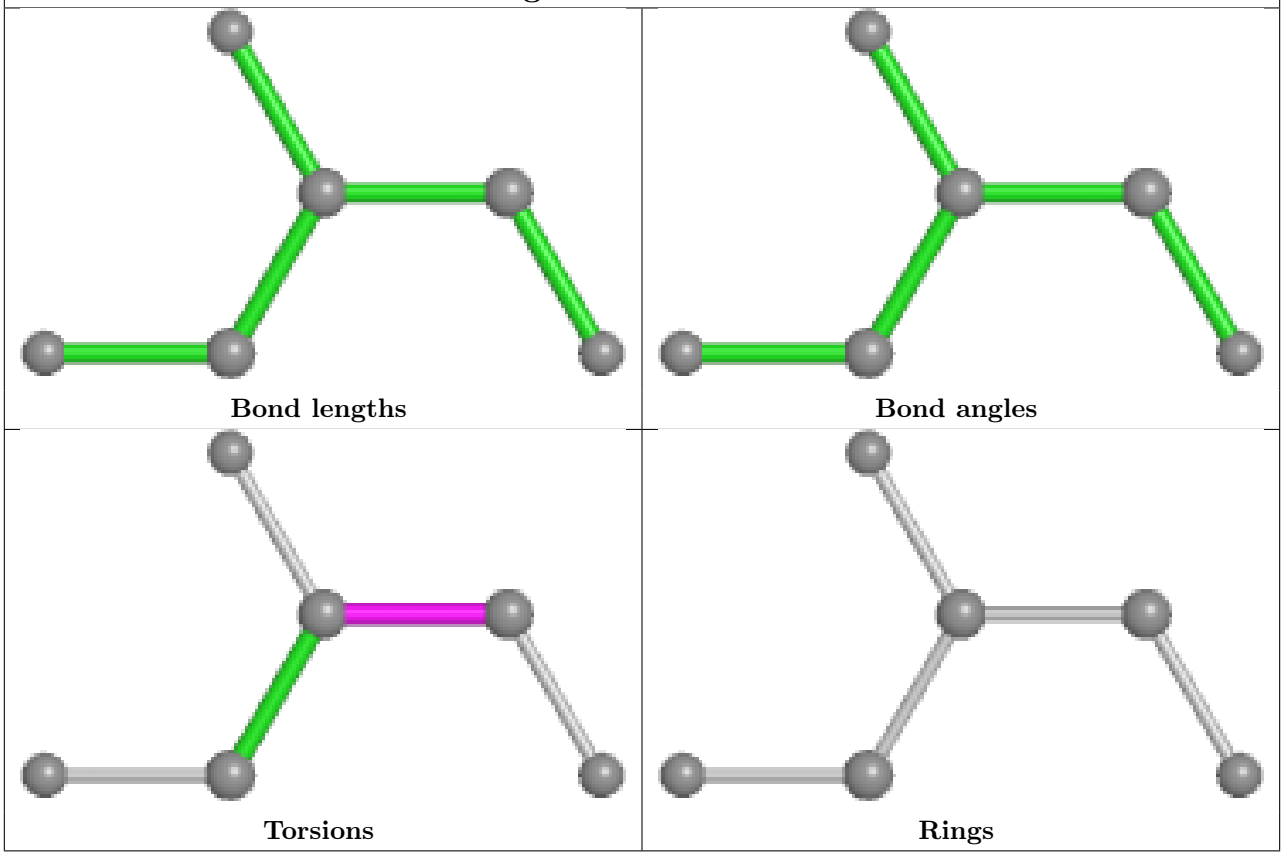


Torsions

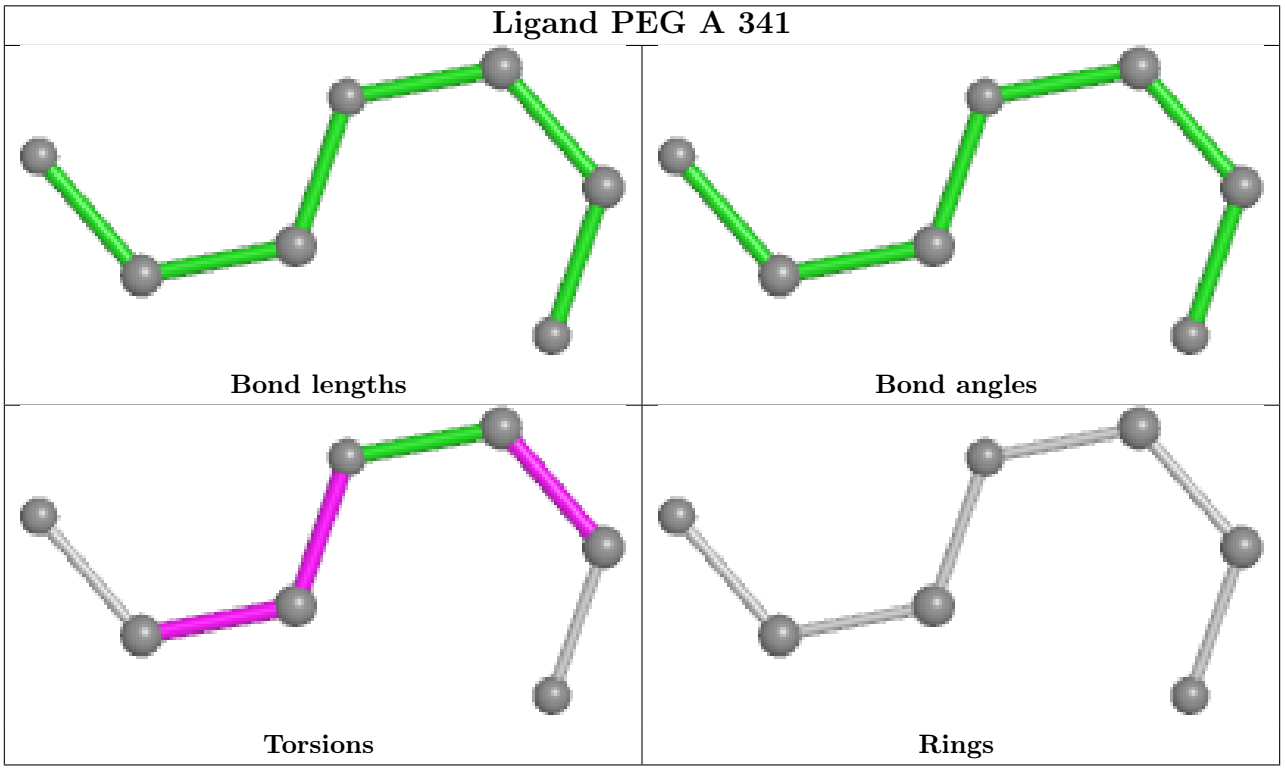


Rings

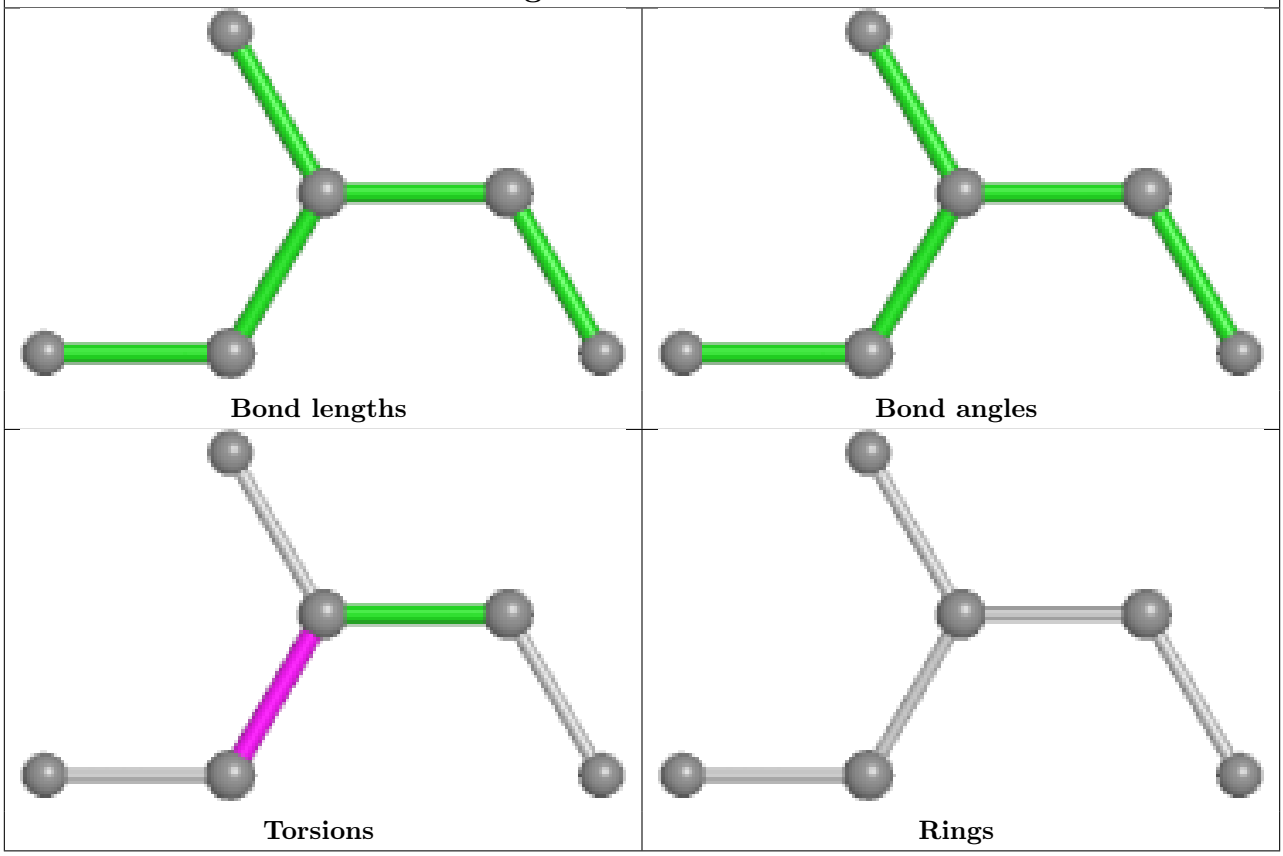
Ligand GOL D 124



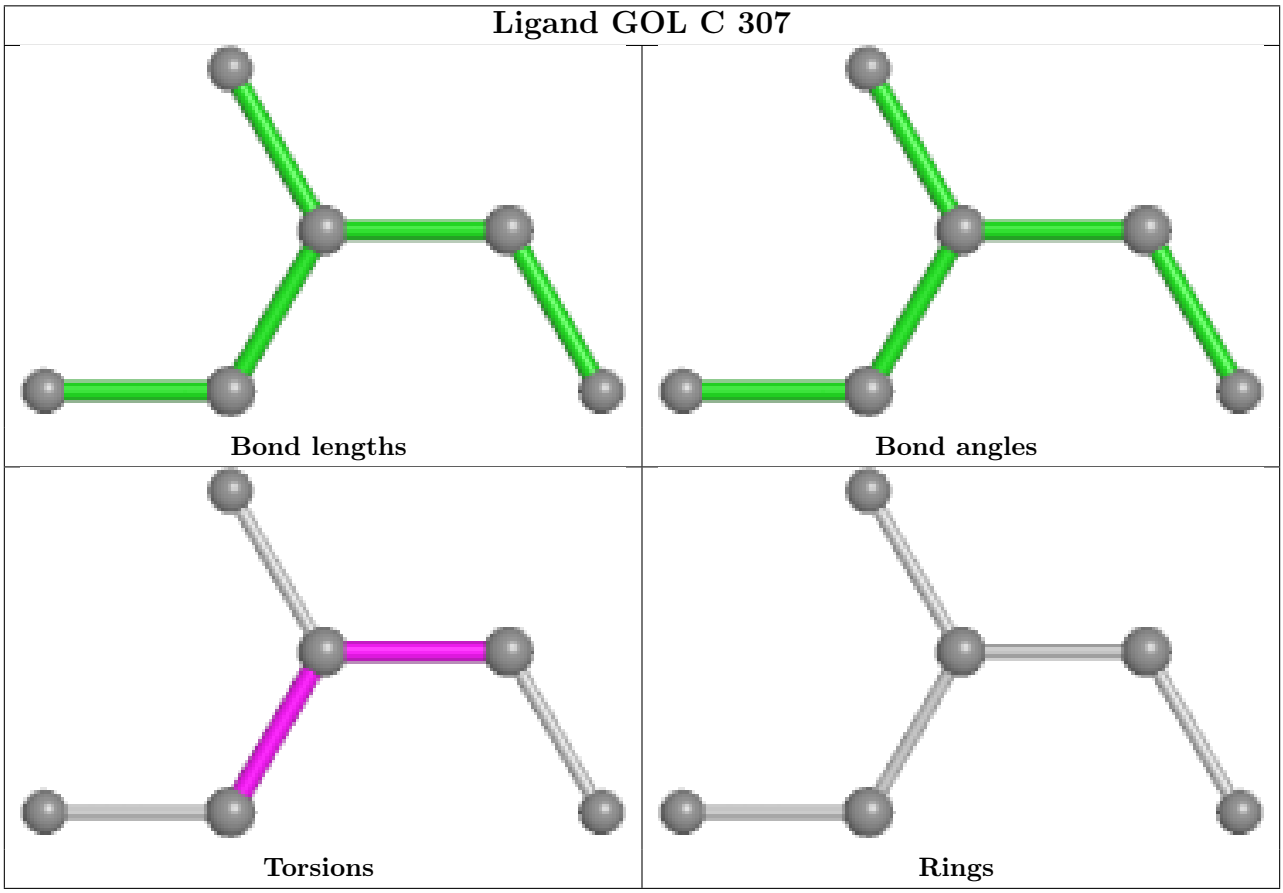
Ligand PEG A 341



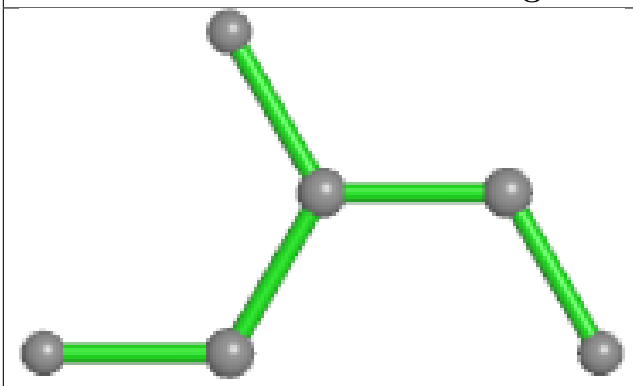
Ligand GOL B 102



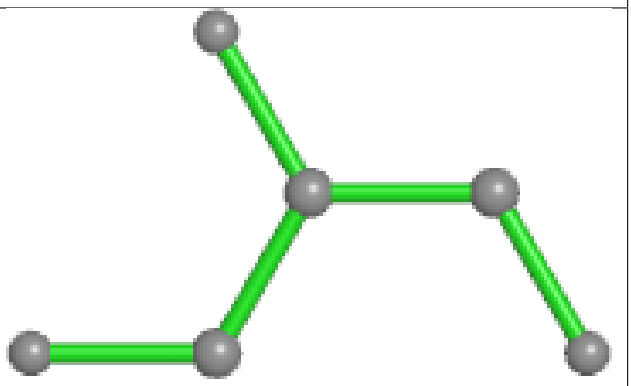
Ligand GOL C 307



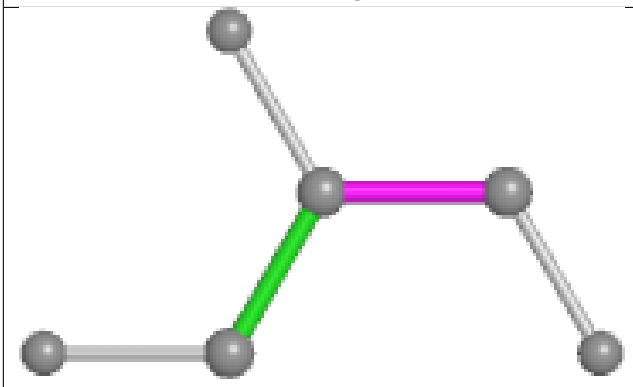
Ligand GOL C 309



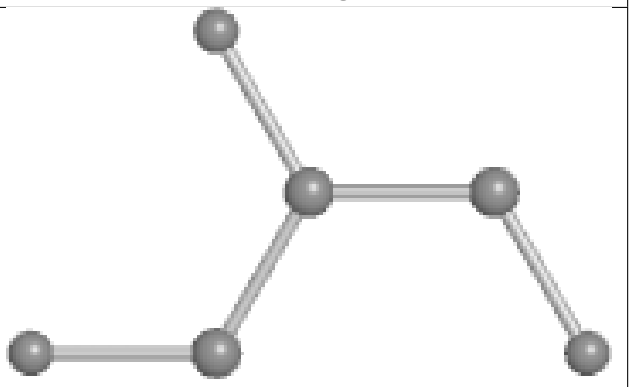
Bond lengths



Bond angles

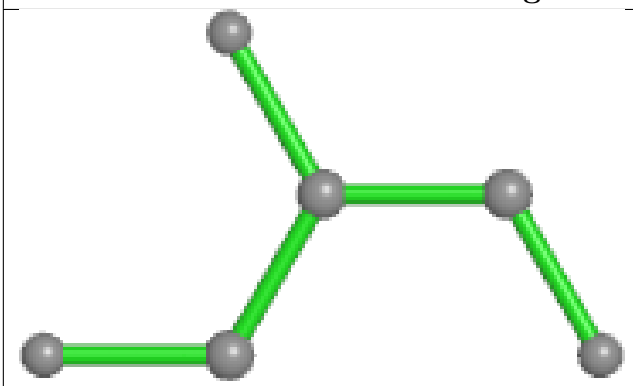


Torsions

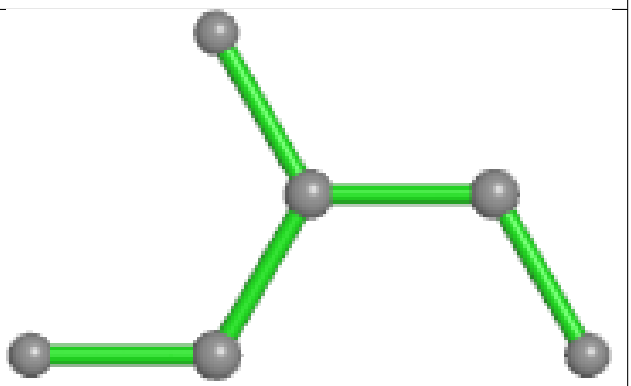


Rings

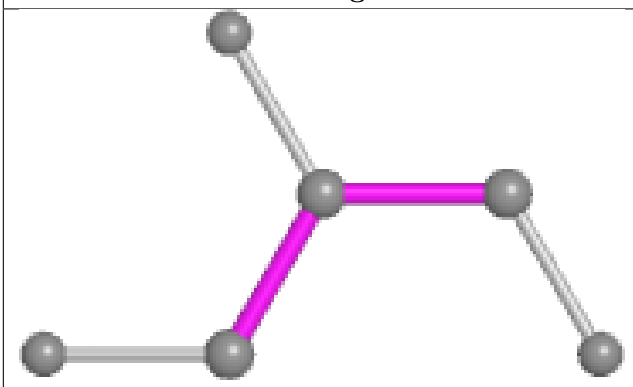
Ligand GOL B 112



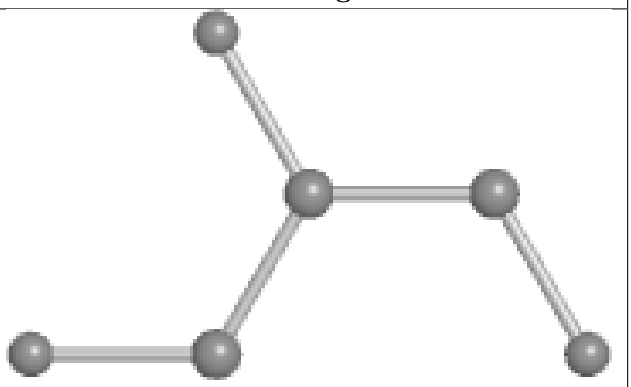
Bond lengths



Bond angles

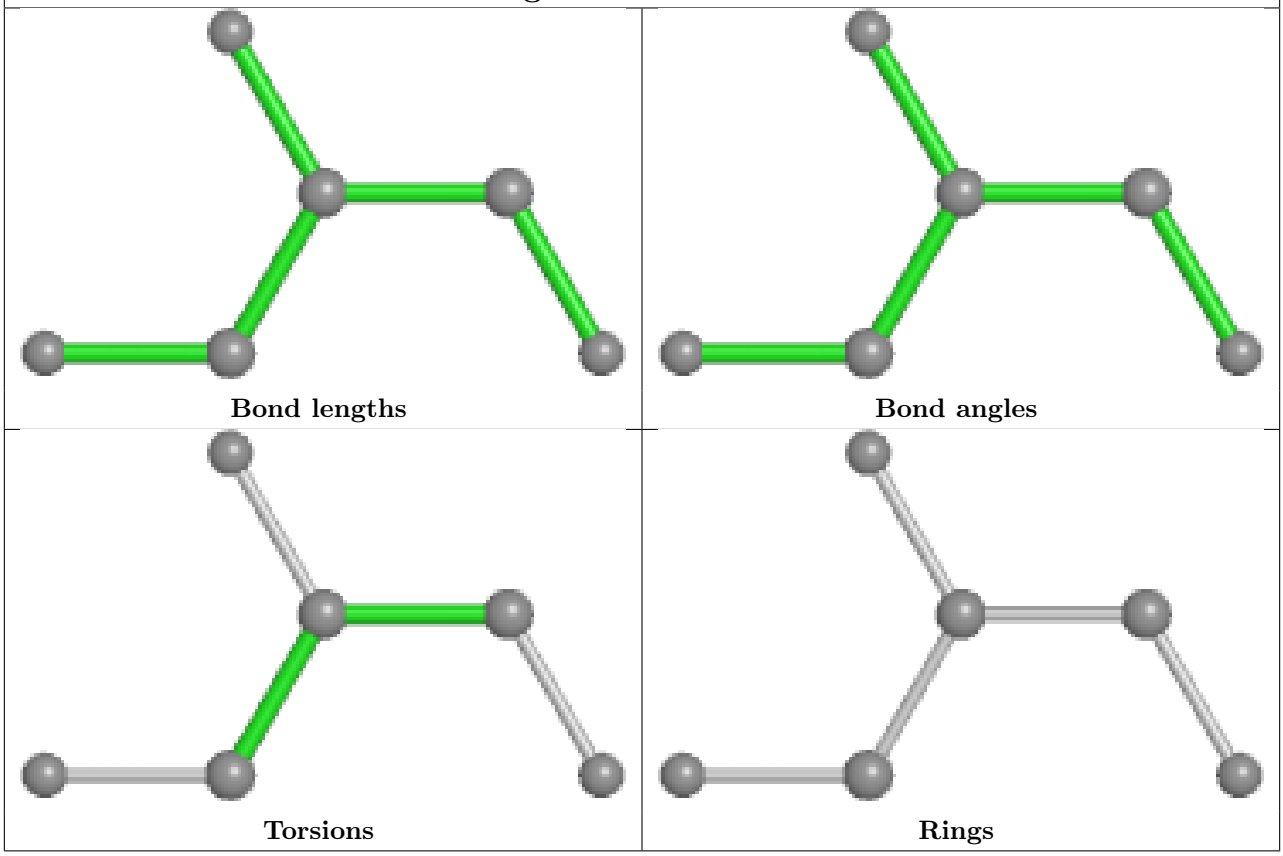


Torsions

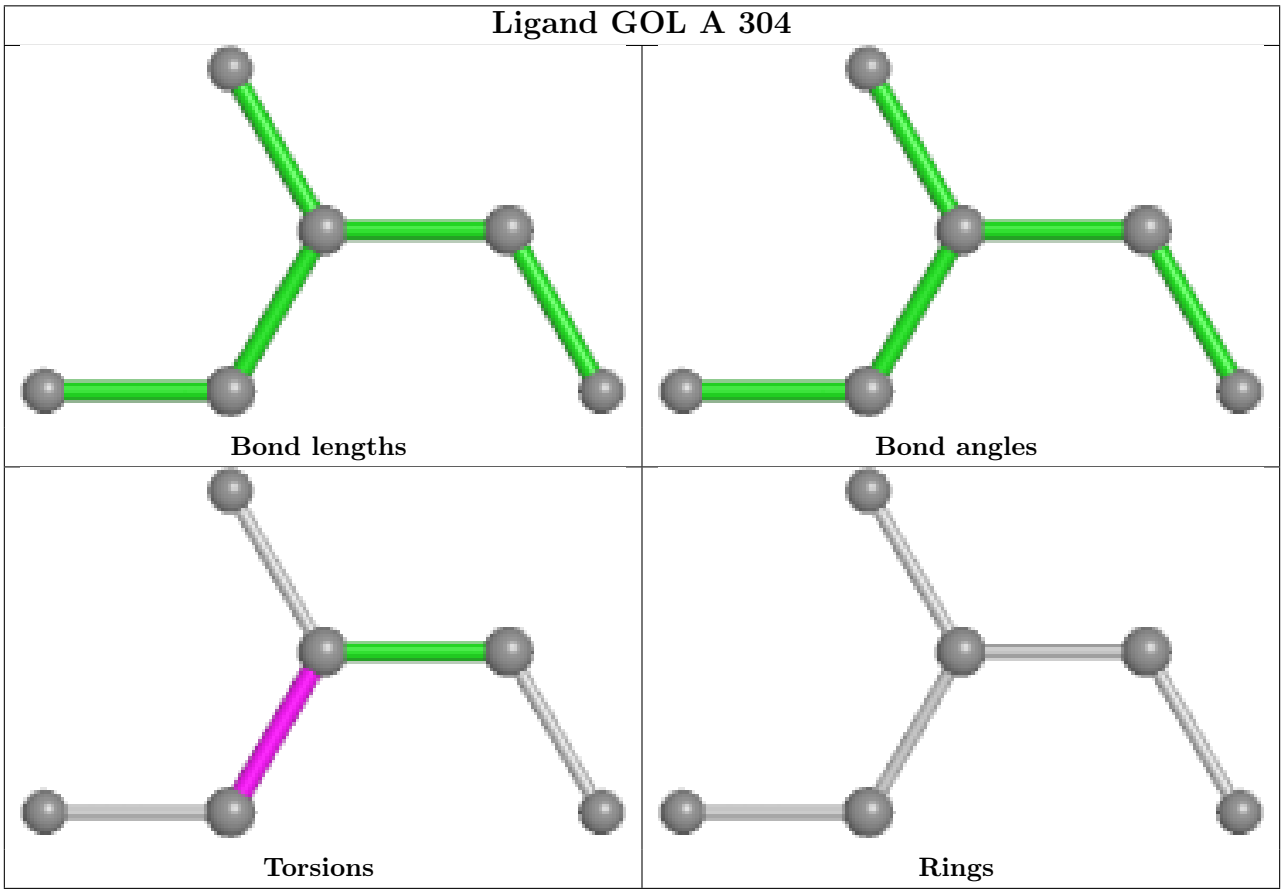


Rings

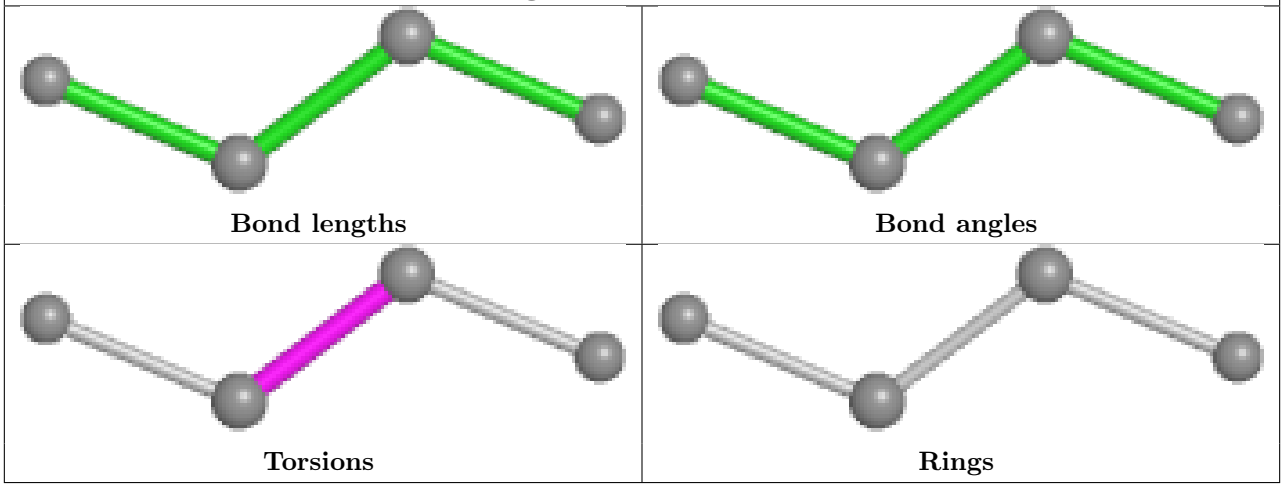
Ligand GOL A 346



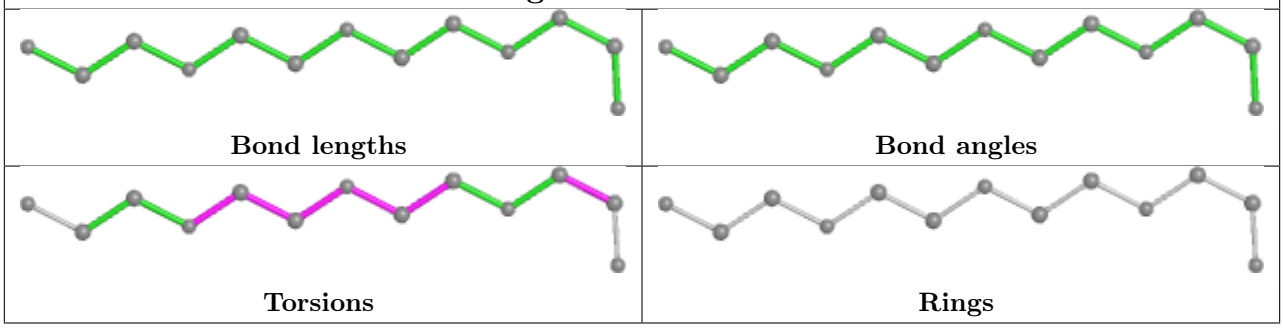
Ligand GOL A 304



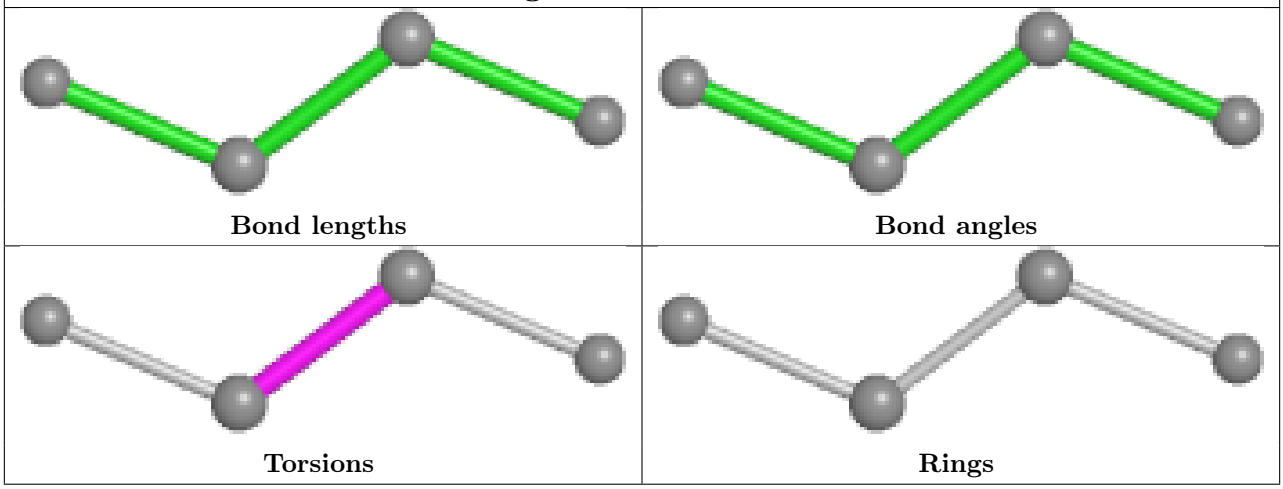
Ligand EDO A 336



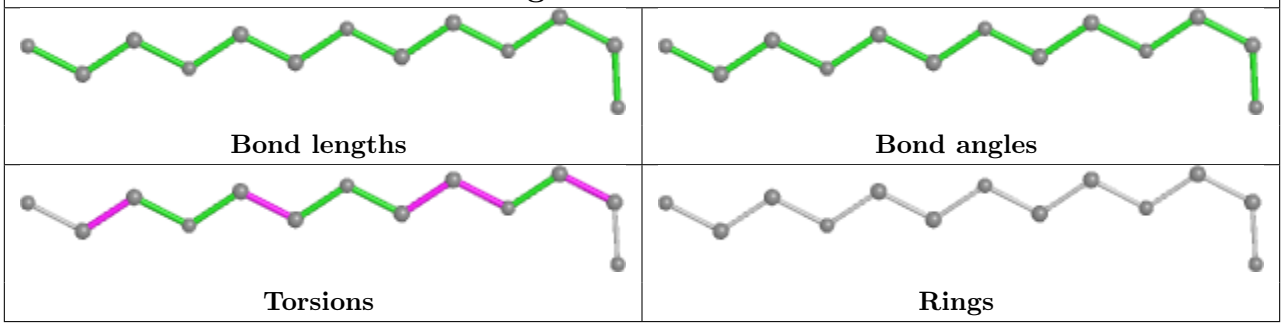
Ligand PG4 A 338



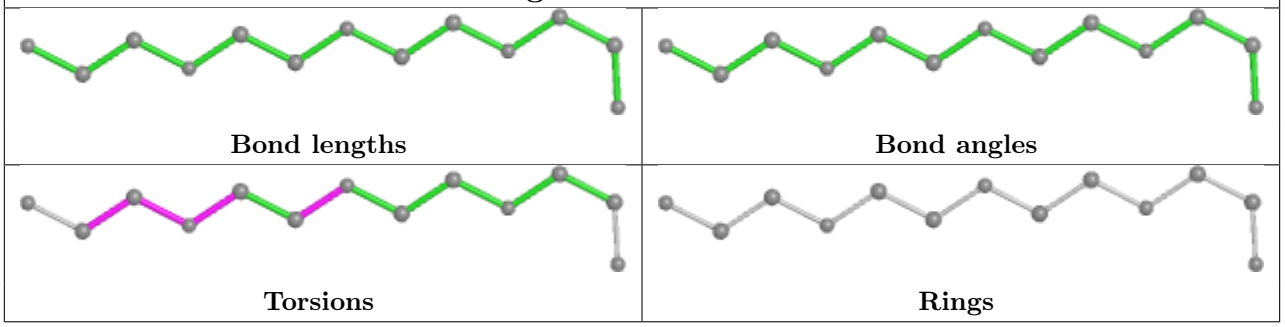
Ligand EDO C 334



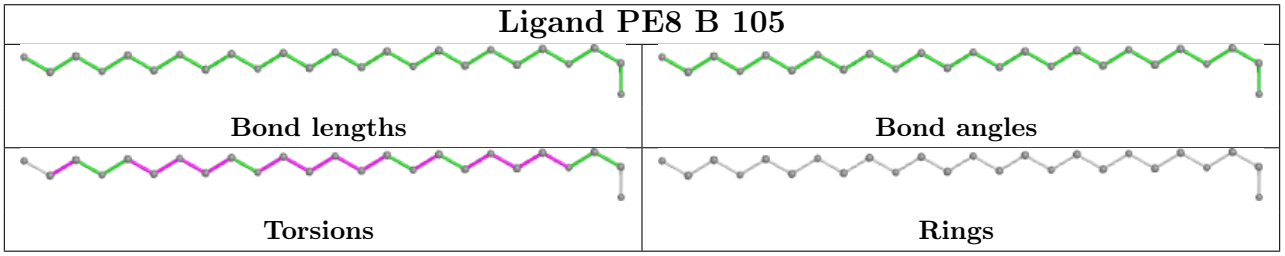
Ligand PG4 B 125



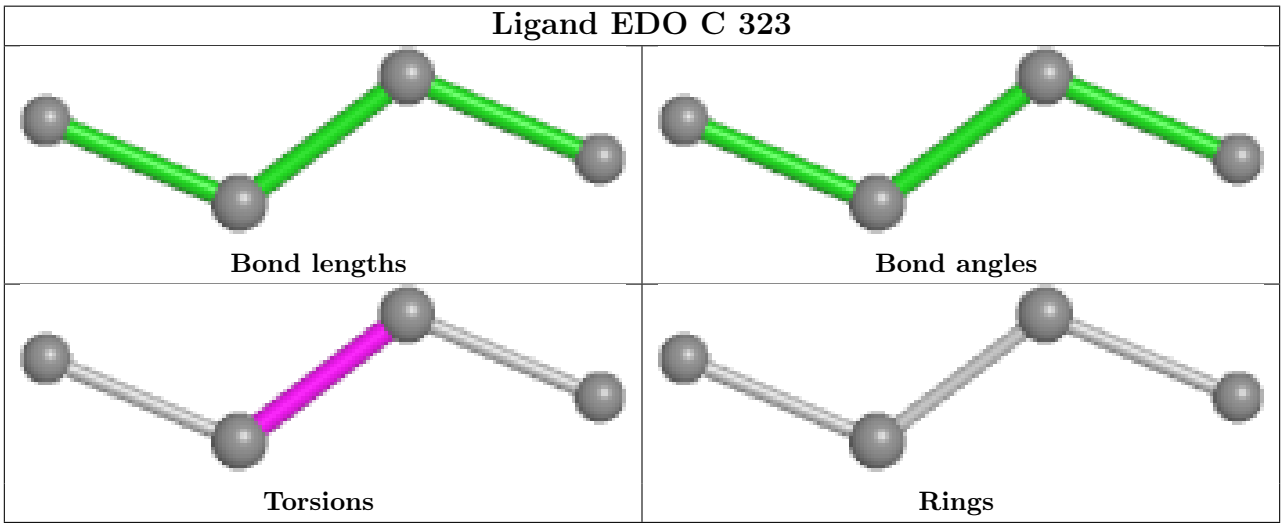
Ligand PG4 D 118



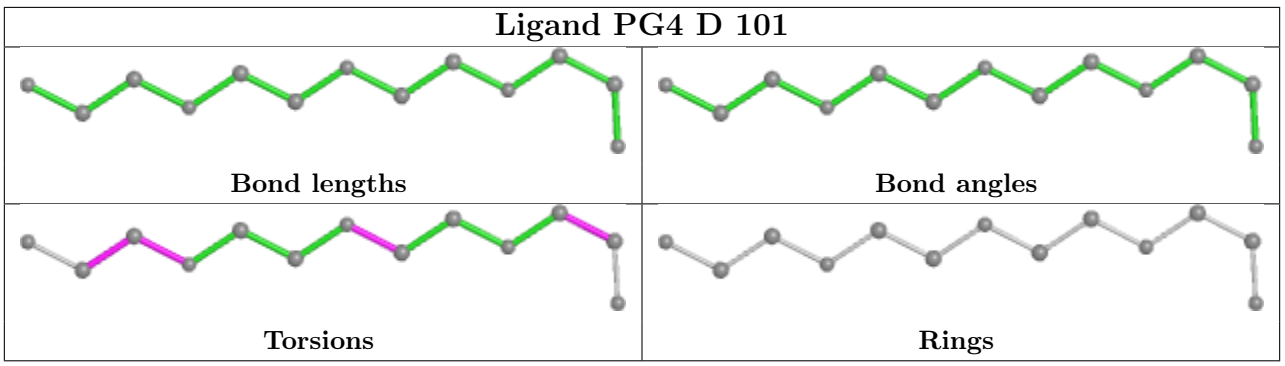
Ligand PE8 B 105



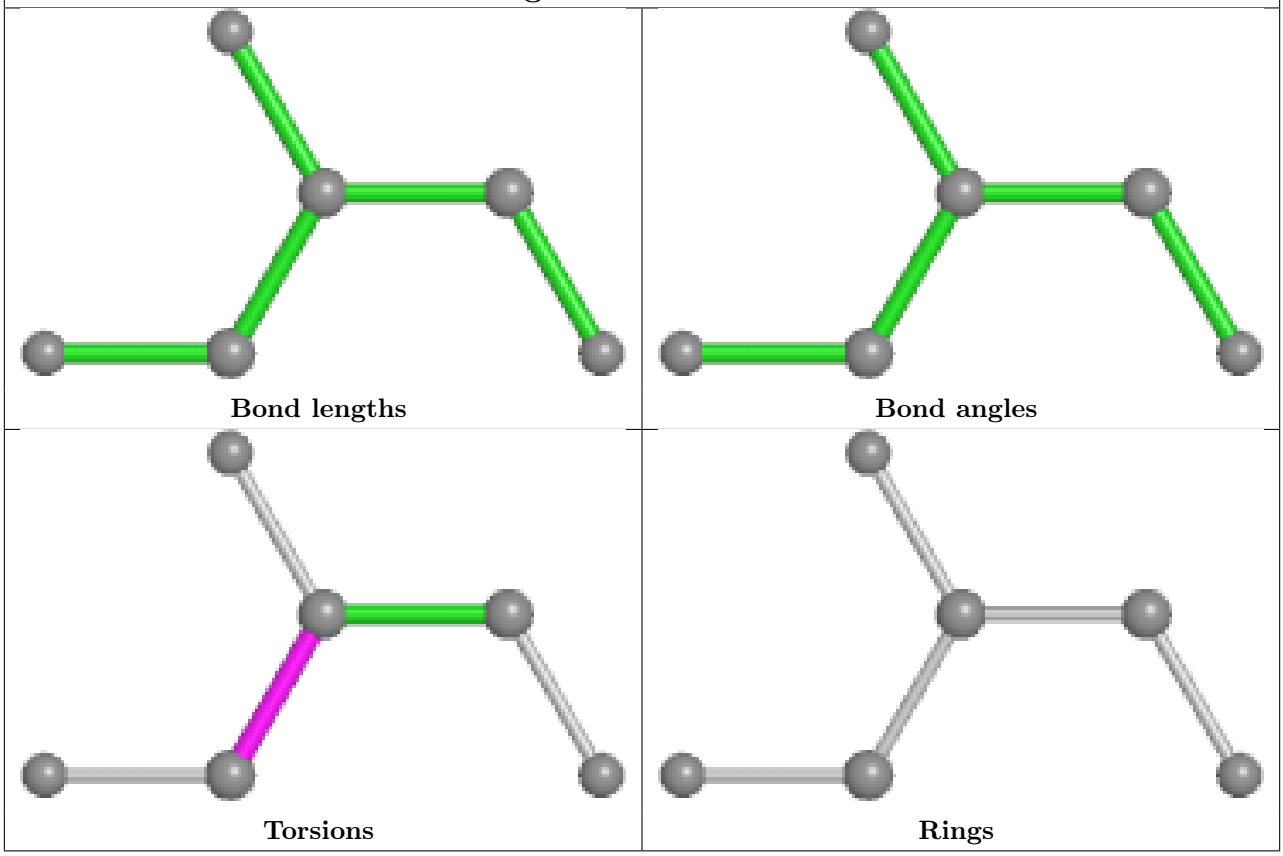
Ligand EDO C 323



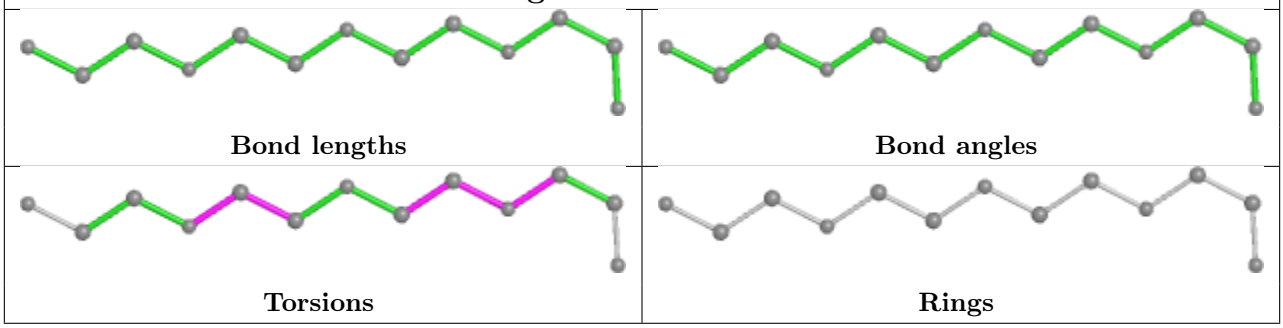
Ligand PG4 D 101



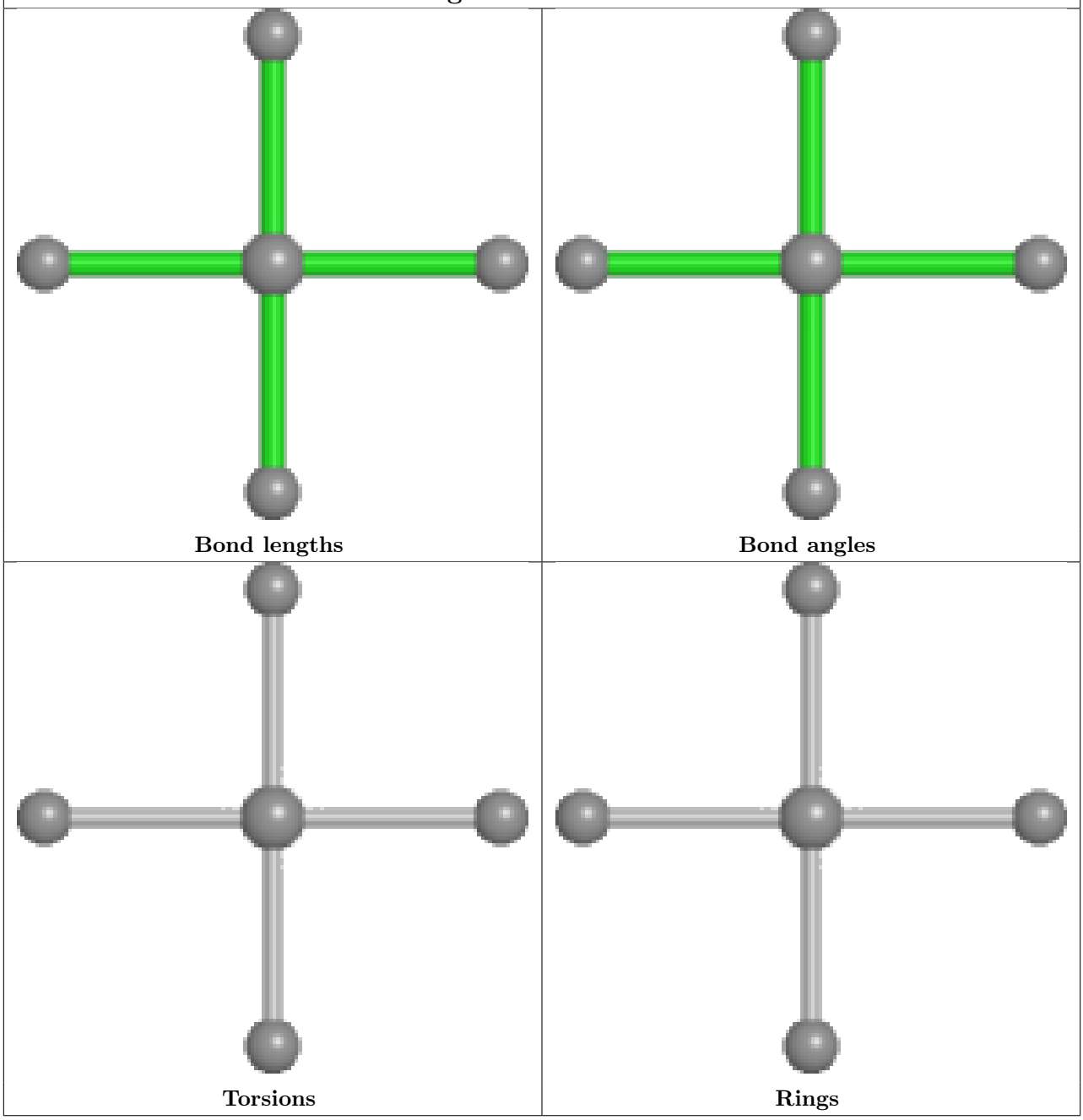
Ligand GOL C 310



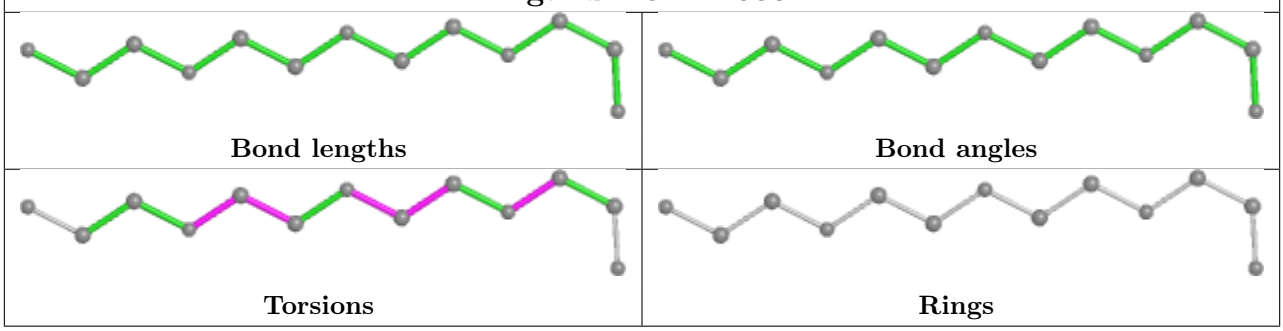
Ligand PG4 B 127



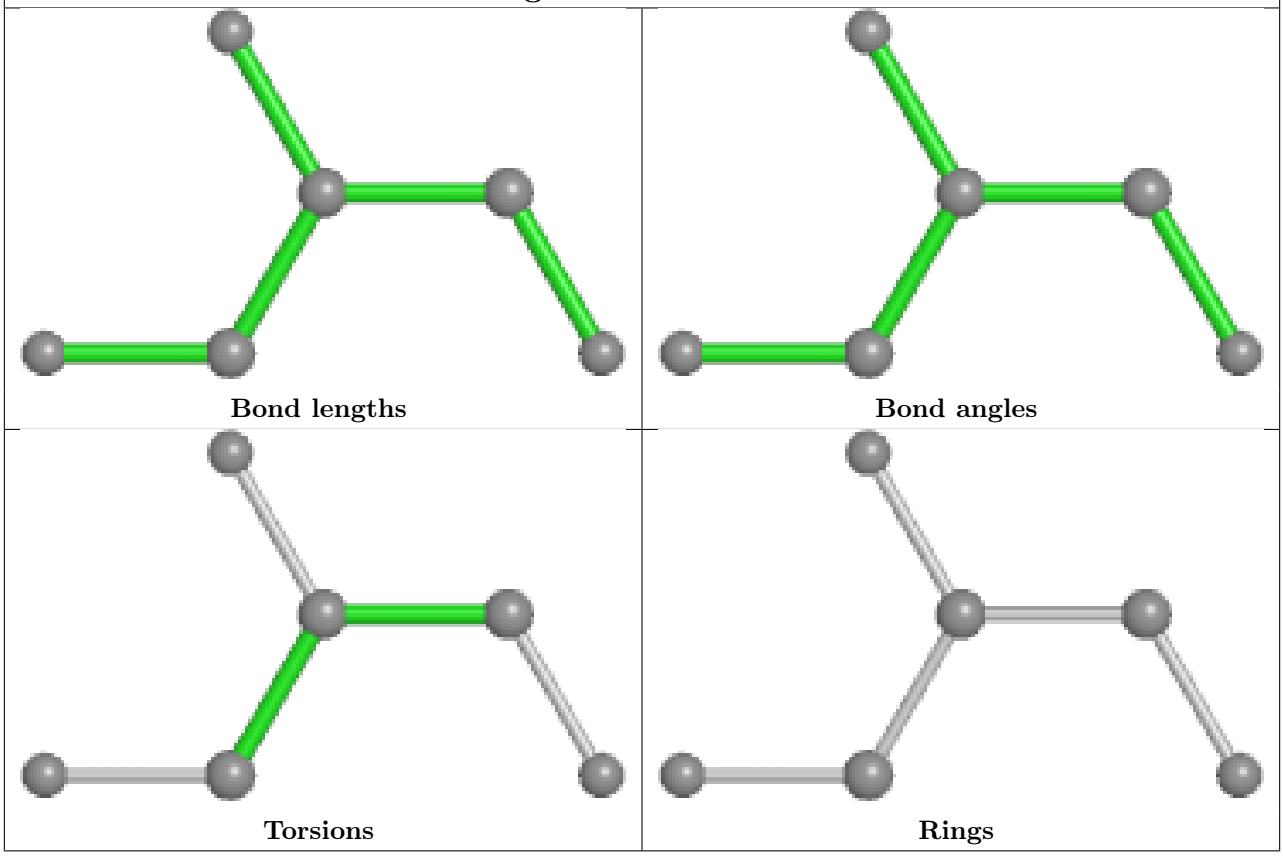
Ligand SO4 C 336



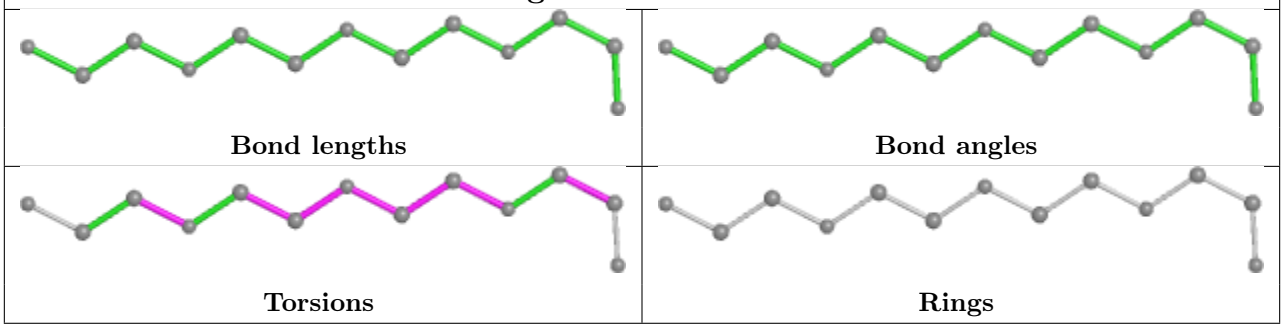
Ligand PG4 A 333



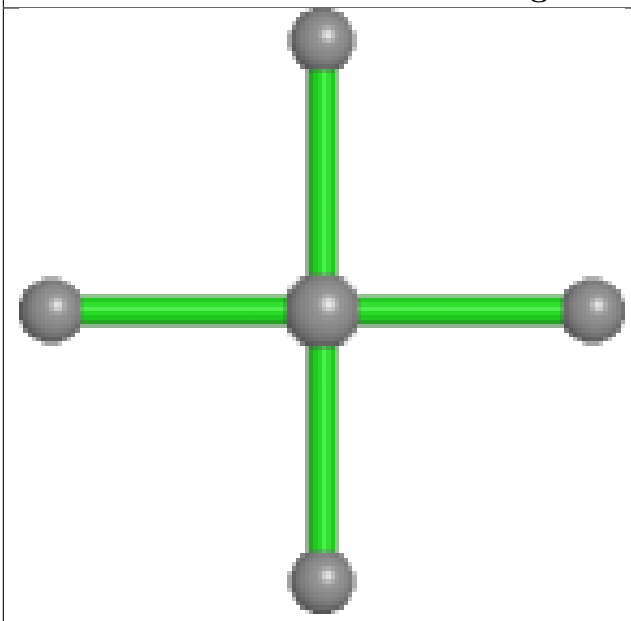
Ligand GOL B 113



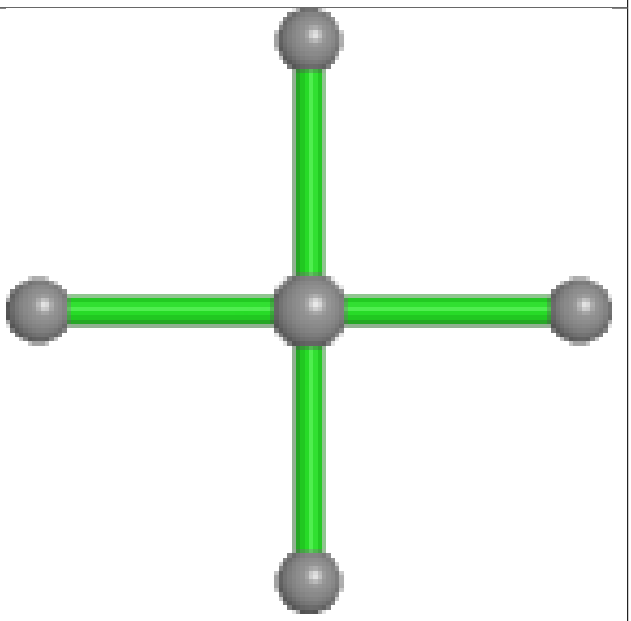
Ligand PG4 C 324



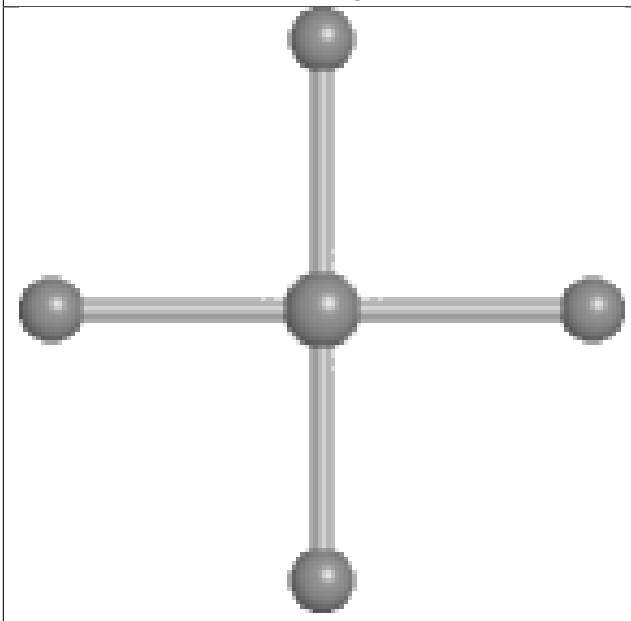
Ligand SO4 E 107



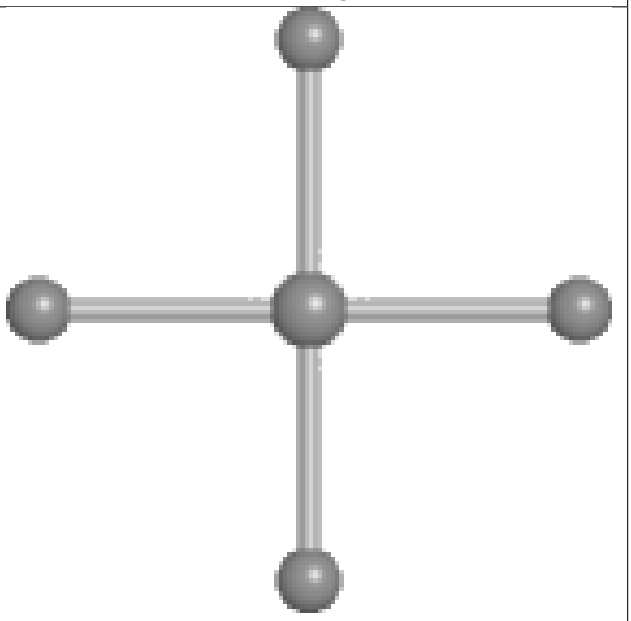
Bond lengths



Bond angles

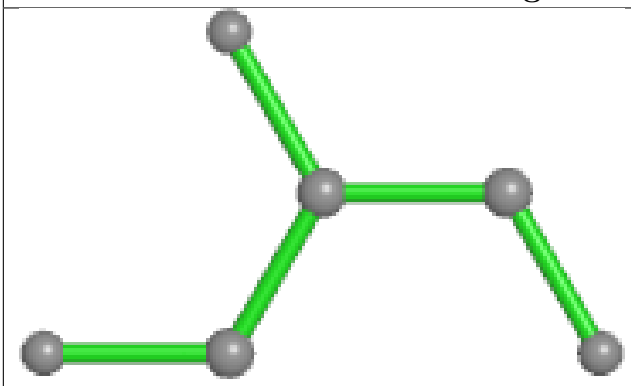


Torsions

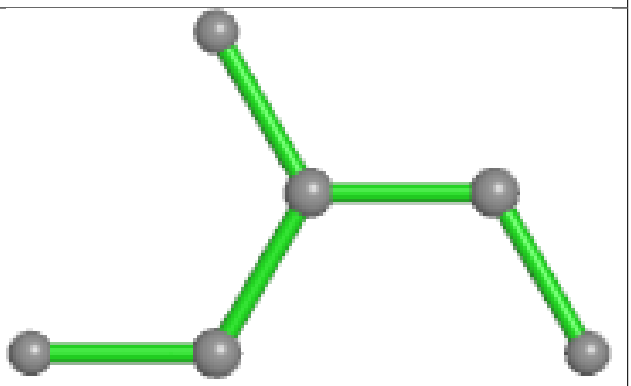


Rings

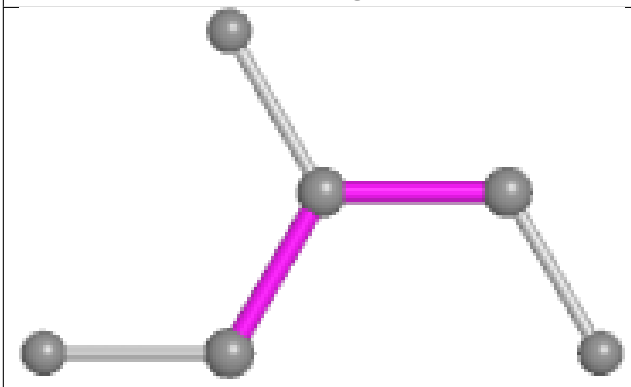
Ligand GOL B 138



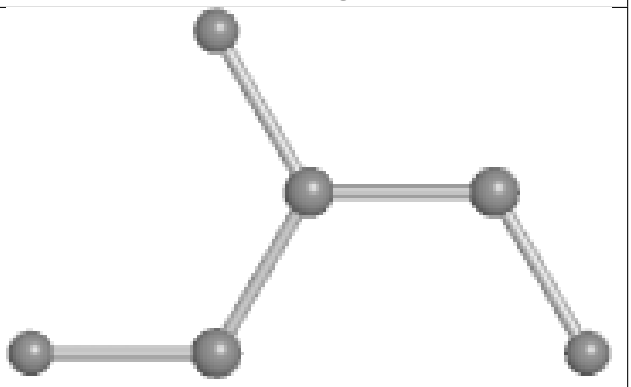
Bond lengths



Bond angles

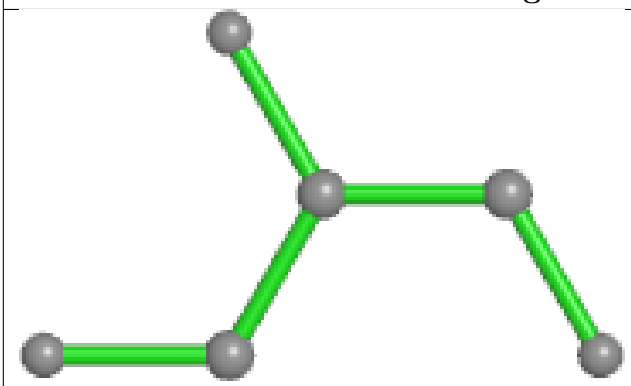


Torsions

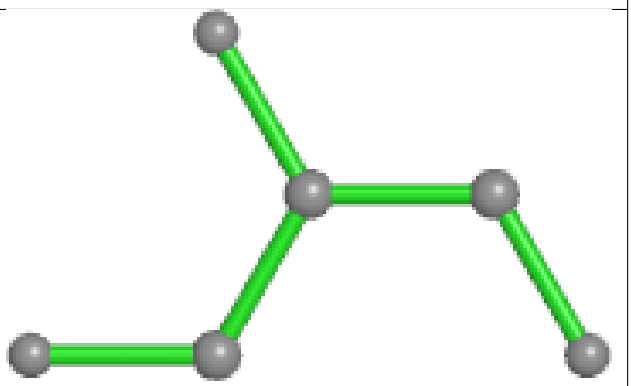


Rings

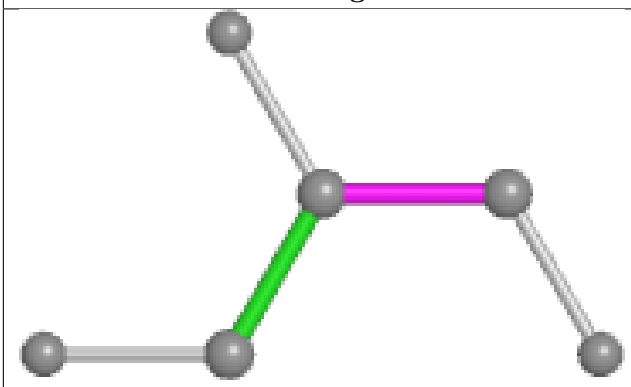
Ligand GOL B 114



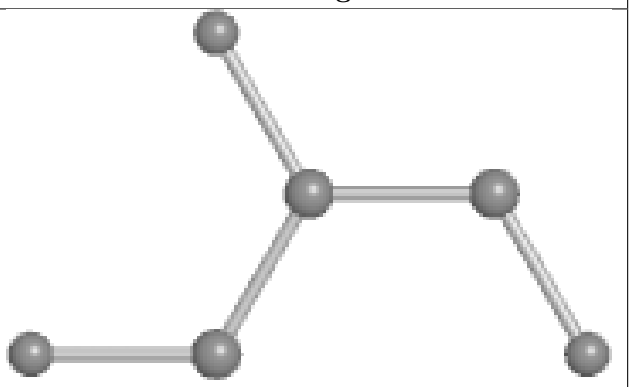
Bond lengths



Bond angles

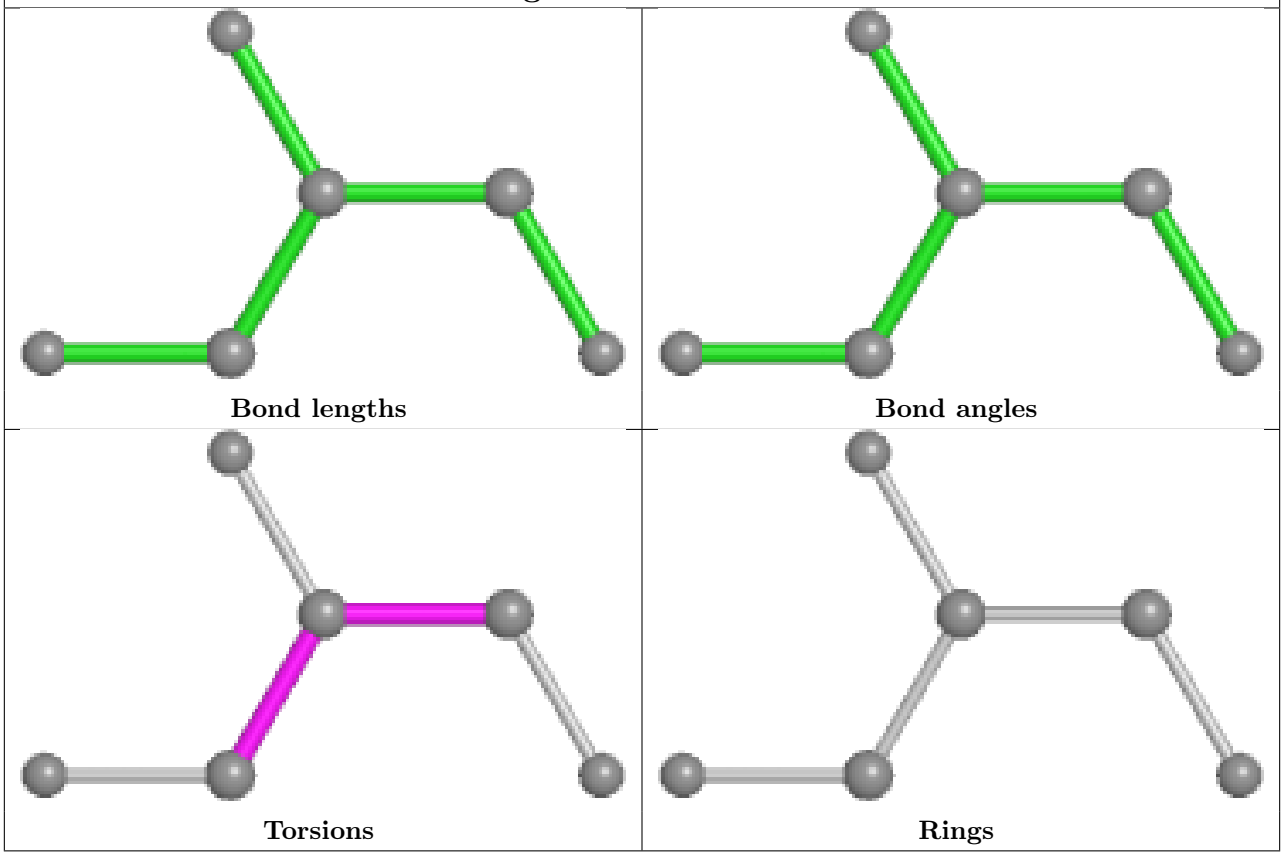


Torsions

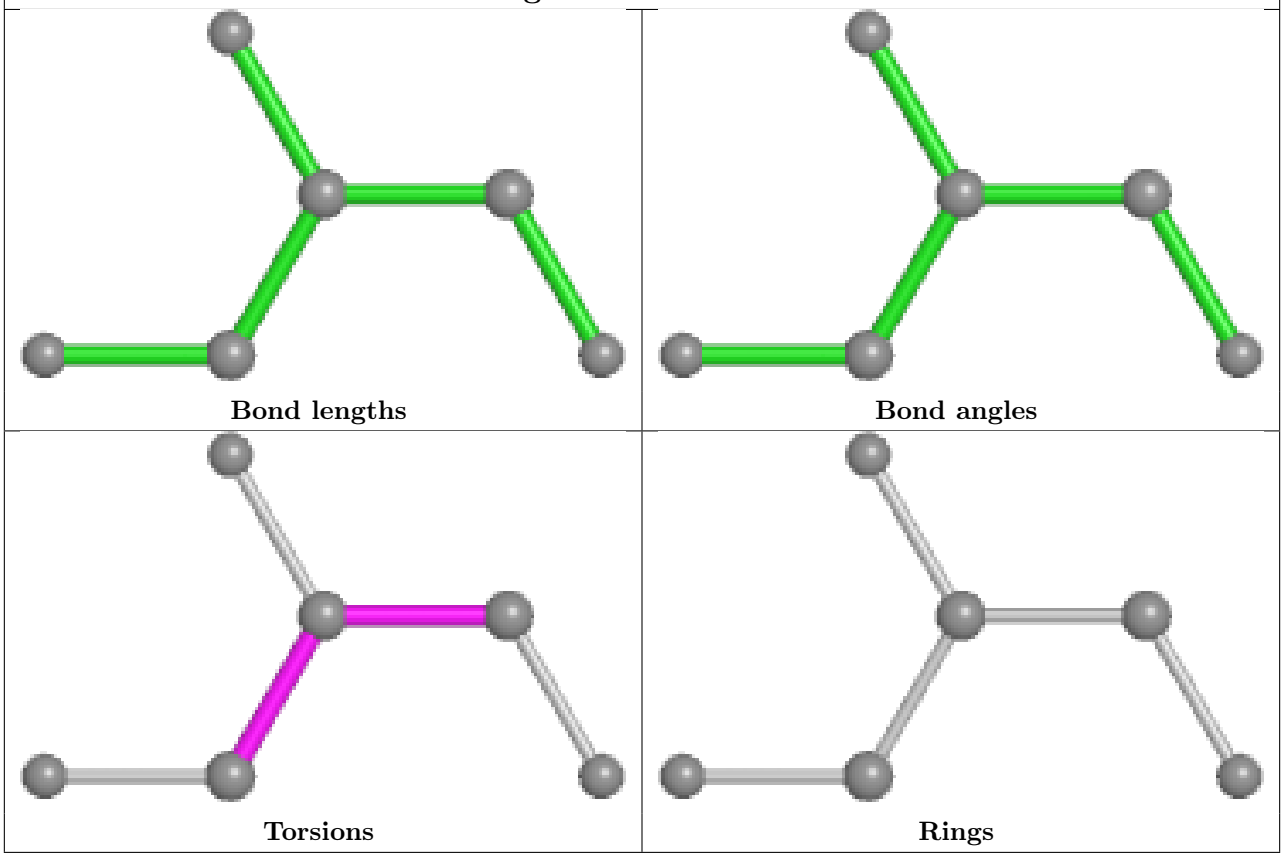


Rings

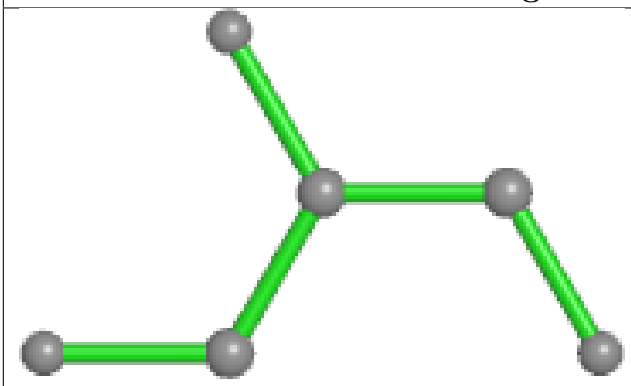
Ligand GOL D 109



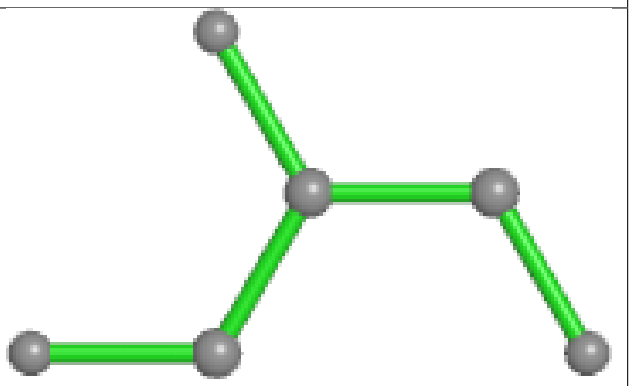
Ligand GOL A 305



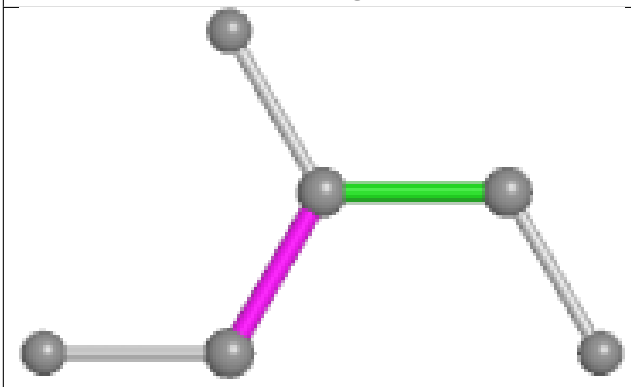
Ligand GOL D 110



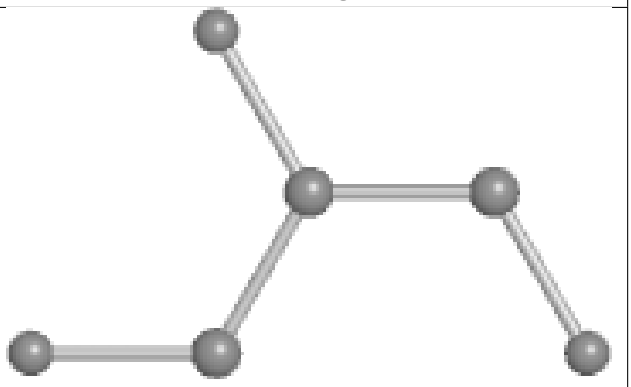
Bond lengths



Bond angles

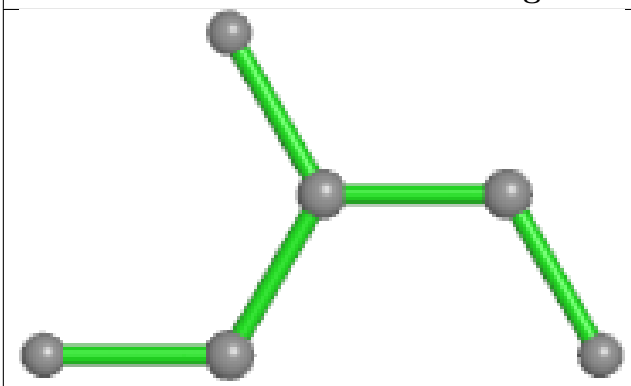


Torsions

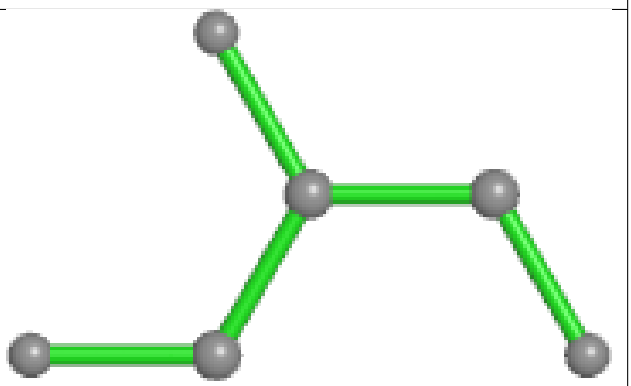


Rings

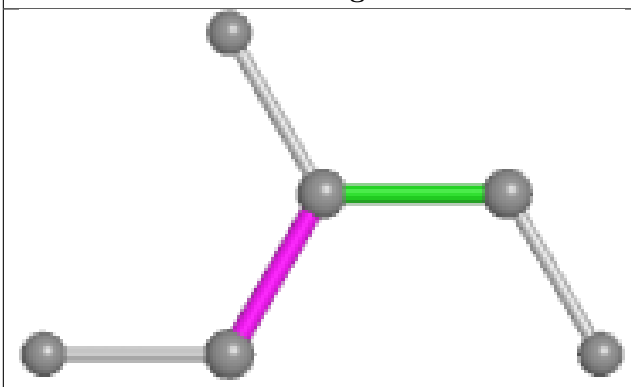
Ligand GOL C 301



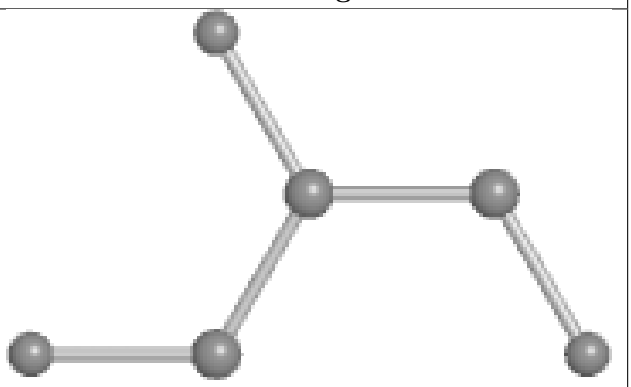
Bond lengths



Bond angles

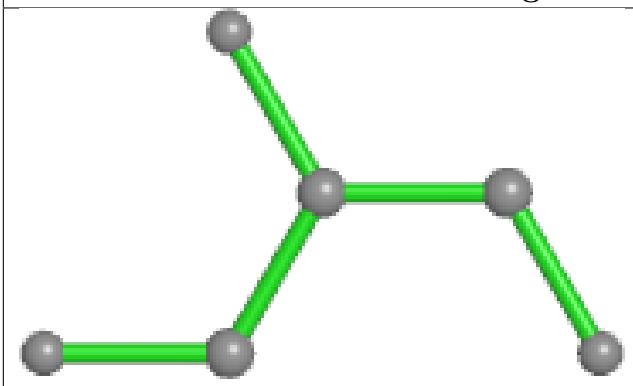


Torsions

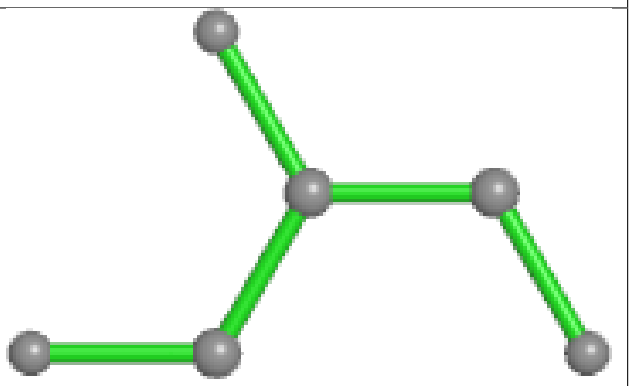


Rings

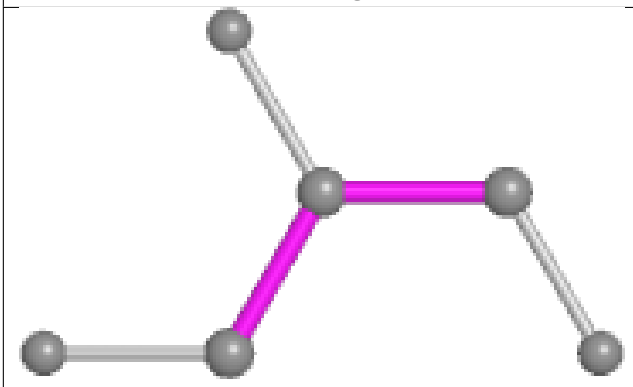
Ligand GOL D 108



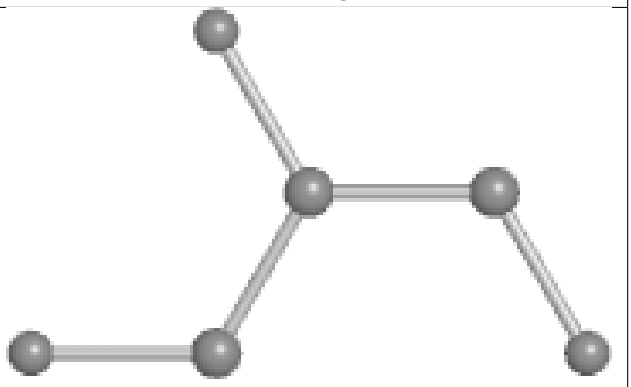
Bond lengths



Bond angles

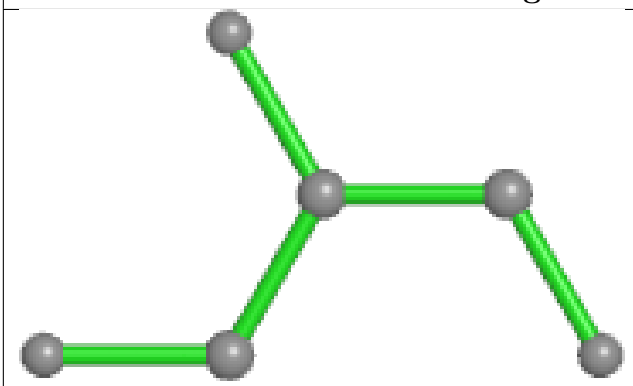


Torsions

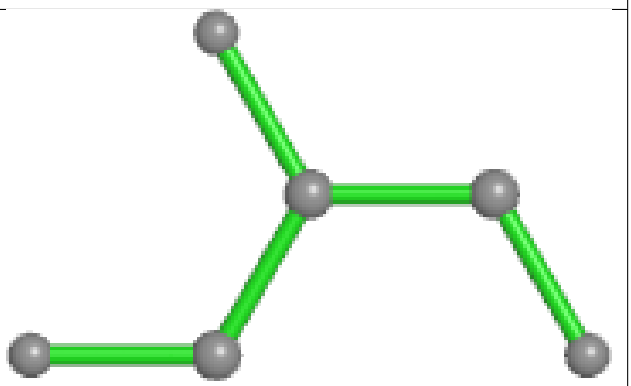


Rings

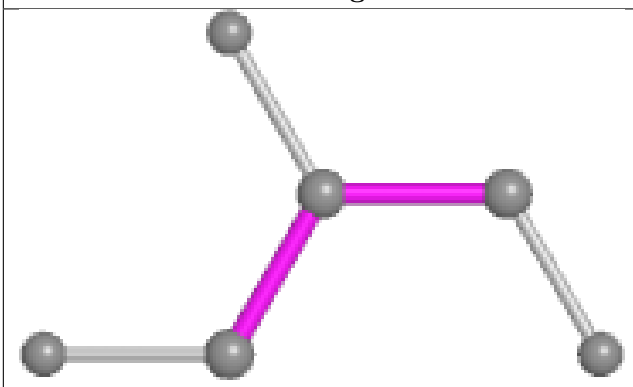
Ligand GOL C 302



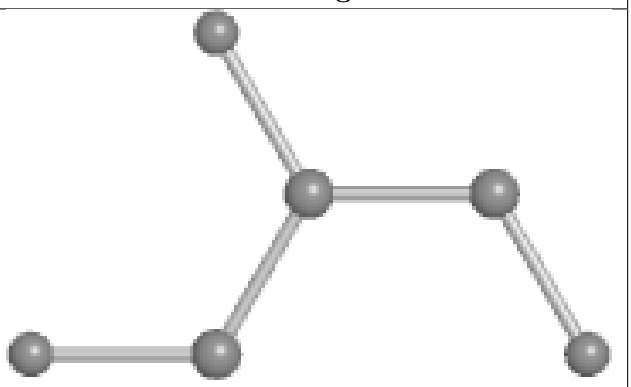
Bond lengths



Bond angles

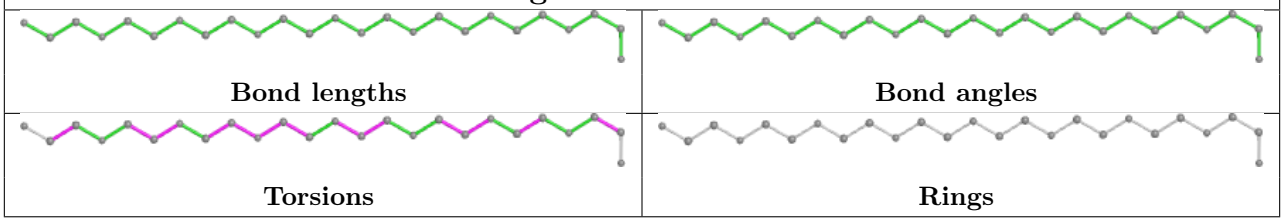


Torsions

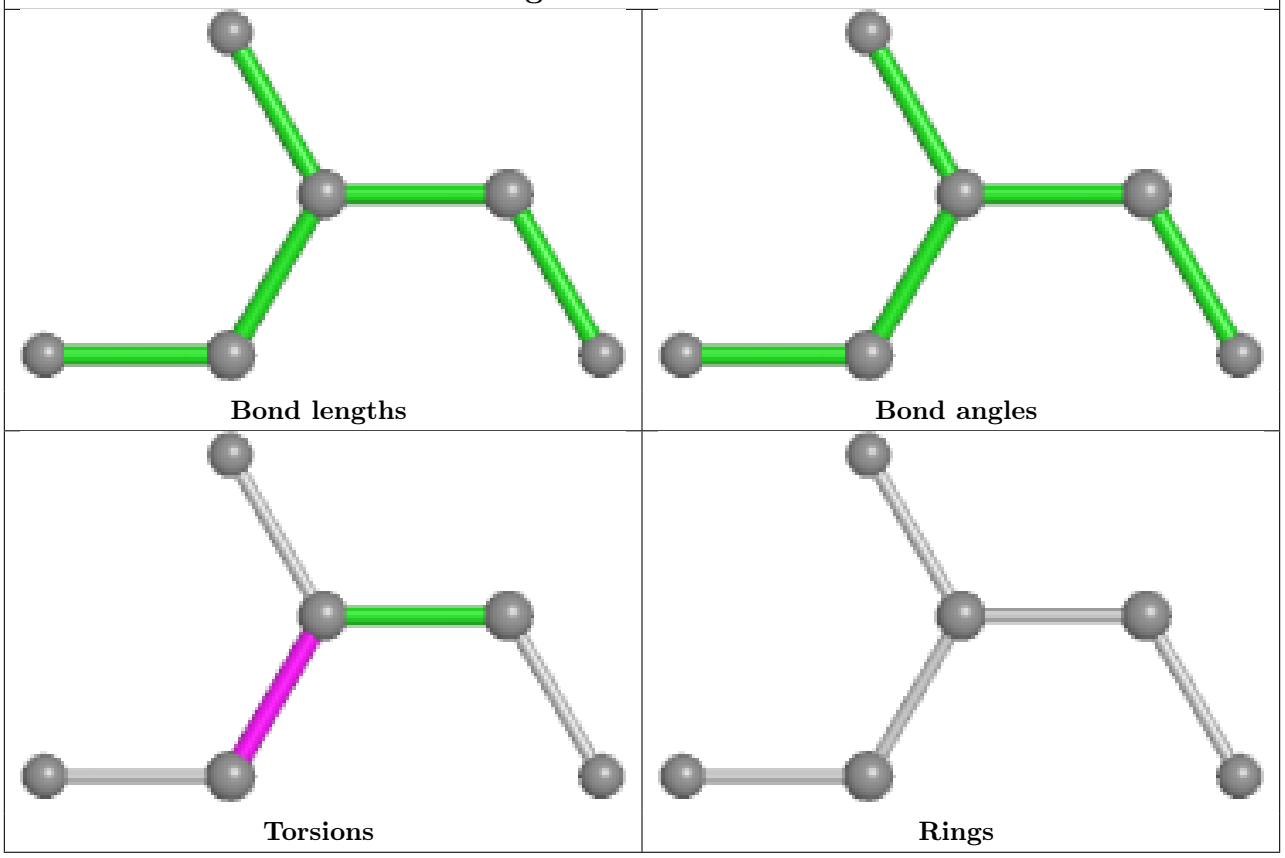


Rings

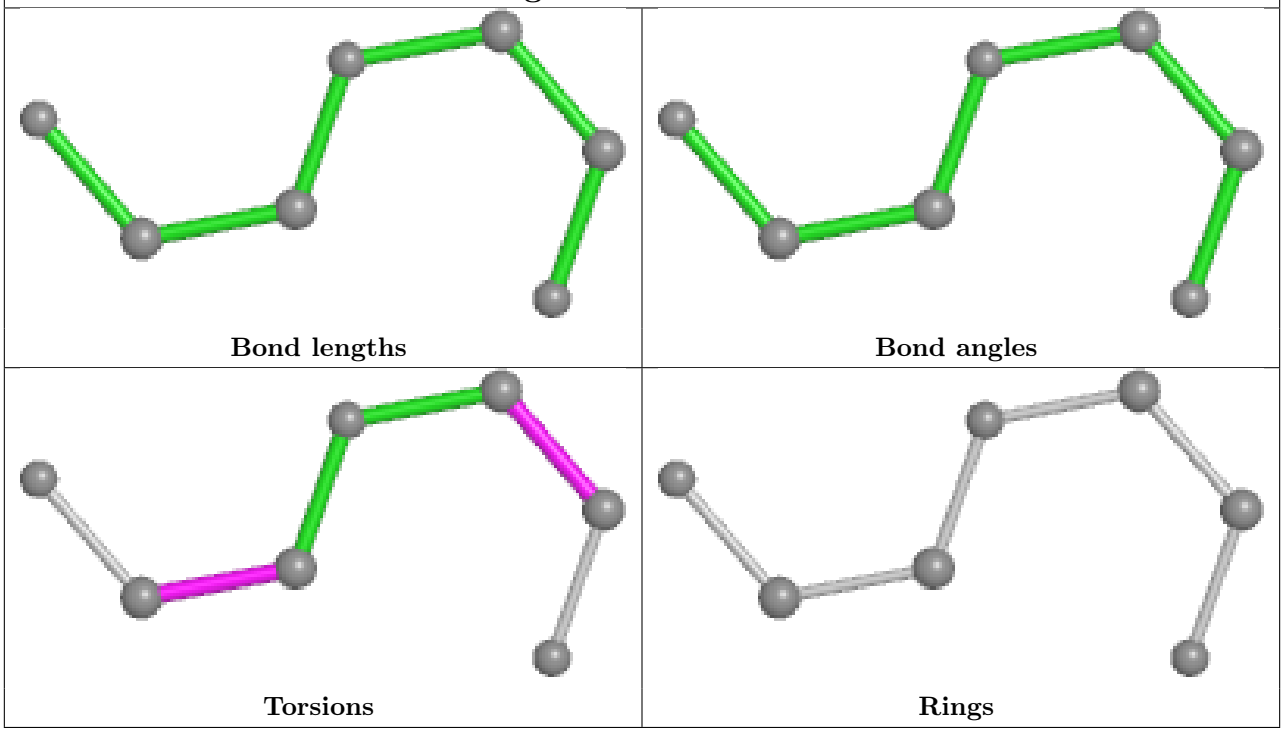
Ligand PE8 B 121



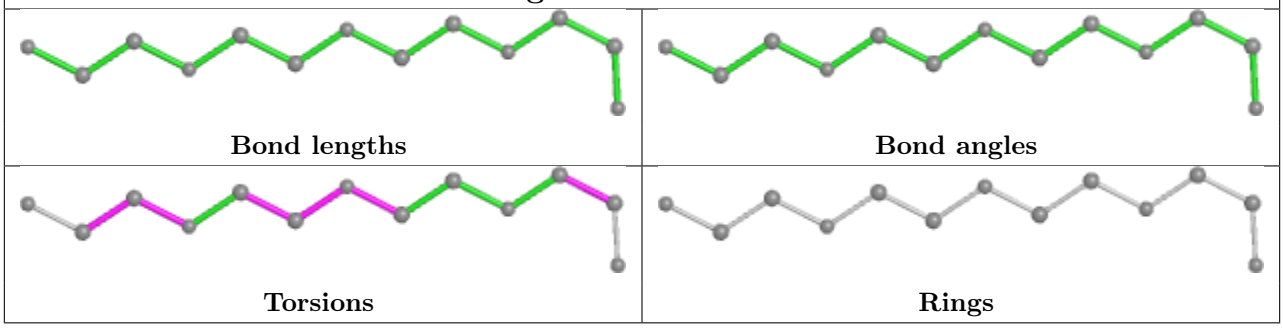
Ligand GOL E 104



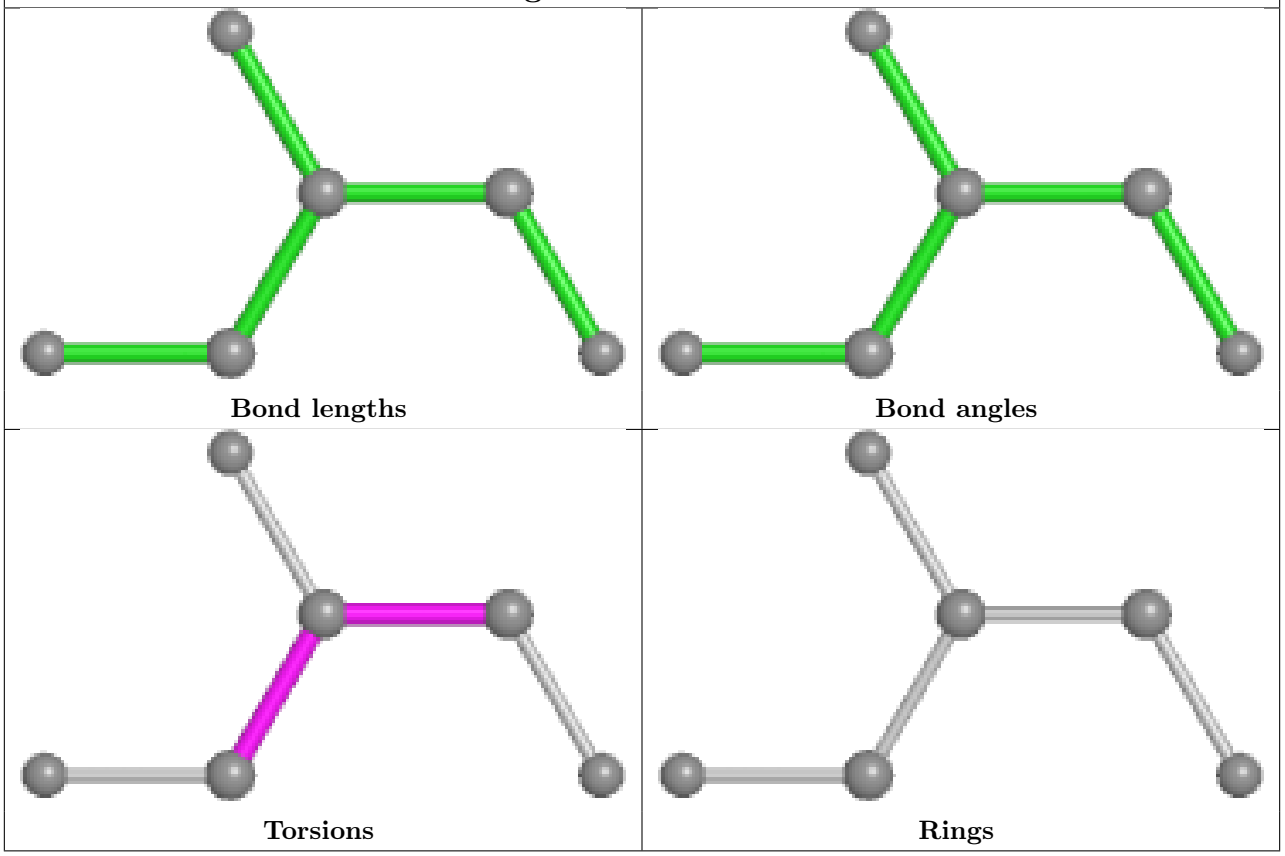
Ligand PEG C 316



Ligand PG4 A 330



Ligand GOL B 107



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	241/241 (100%)	0.66	19 (7%) 12 12	31, 50, 63, 71	0
1	C	241/241 (100%)	0.72	30 (12%) 4 4	36, 54, 64, 76	0
1	E	18/241 (7%)	-0.17	0 100 100	37, 56, 69, 72	0
2	B	98/98 (100%)	1.19	21 (21%) 0 1	42, 64, 78, 85	0
2	D	98/98 (100%)	0.56	9 (9%) 9 9	36, 54, 66, 69	0
All	All	696/919 (75%)	0.72	79 (11%) 5 5	31, 53, 70, 85	0

The worst 5 of 79 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	149	SER	9.9
1	C	178	LEU	6.5
2	B	83	THR	4.8
2	B	52	ASN	4.5
1	C	147	SER	4.3

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

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

6.3 Carbohydrates

There are no monosaccharides in this entry.

6.4 Ligands

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,

median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
4	NA	D	104	1/1	0.57	0.82	41,41,41,41	0
5	PEG	C	316	7/7	0.70	0.38	37,47,51,57	0
5	PEG	C	319	7/7	0.70	0.39	50,54,60,61	0
4	NA	D	111	1/1	0.71	0.27	35,35,35,35	0
7	EDO	C	328	4/4	0.72	0.41	44,45,47,48	0
5	PEG	E	108	7/7	0.74	0.25	45,53,58,62	0
3	GOL	B	114	6/6	0.74	0.29	33,37,42,48	0
5	PEG	C	320	7/7	0.75	0.31	18,25,32,36	0
7	EDO	A	327	4/4	0.76	0.29	54,57,63,63	0
3	GOL	B	137	6/6	0.76	0.24	28,41,44,55	0
3	GOL	C	303	6/6	0.77	0.48	50,67,68,72	0
5	PEG	A	341	7/7	0.77	0.25	14,24,29,34	0
7	EDO	C	334	4/4	0.77	0.26	31,33,38,41	0
8	PG4	C	332	13/13	0.77	0.26	38,46,57,57	0
8	PG4	D	117	13/13	0.77	0.29	43,51,59,60	0
6	PE8	C	321	25/25	0.78	0.27	36,44,50,51	0
8	PG4	A	331	13/13	0.78	0.22	34,49,60,63	0
4	NA	B	117	1/1	0.78	0.17	30,30,30,30	0
3	GOL	B	113	6/6	0.78	0.34	29,38,44,48	0
4	NA	A	316	1/1	0.79	0.30	15,15,15,15	0
3	GOL	C	307	6/6	0.79	0.26	45,51,53,56	0
6	PE8	B	123	25/25	0.79	0.26	22,43,56,64	0
4	NA	B	143	1/1	0.79	0.27	29,29,29,29	0
3	GOL	C	342	6/6	0.79	0.24	28,34,36,37	0
8	PG4	D	118	13/13	0.79	0.23	24,43,50,51	0
3	GOL	C	308	6/6	0.80	0.30	30,42,48,54	0
3	GOL	C	309	6/6	0.80	0.21	41,46,49,55	0
3	GOL	C	304	6/6	0.80	0.22	35,41,48,52	0
5	PEG	C	318	7/7	0.80	0.32	32,33,50,50	0
6	PE8	E	112	25/25	0.80	0.21	16,39,48,52	0
3	GOL	E	103	6/6	0.80	0.37	29,38,39,45	0
5	PEG	D	123	7/7	0.81	0.28	39,41,51,53	0
5	PEG	C	315	7/7	0.81	0.23	17,34,38,39	0
3	GOL	B	130	6/6	0.81	0.27	37,44,50,52	0
8	PG4	C	327	13/13	0.81	0.25	45,53,57,59	0
3	GOL	A	314	6/6	0.81	0.32	32,33,40,42	0
5	PEG	A	319	7/7	0.81	0.27	29,36,40,43	0
4	NA	B	144	1/1	0.81	0.21	26,26,26,26	0
3	GOL	C	331	6/6	0.82	0.25	22,26,34,35	0
3	GOL	A	303	6/6	0.82	0.25	46,53,58,60	0
8	PG4	D	105	13/13	0.82	0.24	29,36,47,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	GOL	D	122	6/6	0.82	0.19	2,11,18,21	0
4	NA	B	118	1/1	0.82	0.37	59,59,59,59	0
8	PG4	B	127	13/13	0.83	0.21	32,40,54,57	0
5	PEG	C	317	7/7	0.83	0.24	37,41,44,50	0
3	GOL	B	116	6/6	0.83	0.19	46,48,51,52	0
5	PEG	E	109	7/7	0.83	0.31	32,43,52,56	0
8	PG4	A	330	13/13	0.83	0.36	28,36,50,53	0
6	PE8	E	114	25/25	0.83	0.20	34,42,47,49	0
6	PE8	A	324	25/25	0.84	0.22	22,33,51,54	0
3	GOL	B	136	6/6	0.84	0.27	23,31,35,35	0
3	GOL	B	101	6/6	0.84	0.29	30,38,42,54	0
5	PEG	C	330	7/7	0.84	0.23	38,41,47,50	0
8	PG4	D	121	13/13	0.84	0.23	9,23,29,30	0
8	PG4	D	116	13/13	0.85	0.29	24,36,40,41	0
3	GOL	D	108	6/6	0.85	0.19	12,16,21,24	0
6	PE8	B	122	25/25	0.85	0.22	20,32,41,44	0
3	GOL	D	107	6/6	0.85	0.22	16,23,30,34	0
5	PEG	A	335	7/7	0.86	0.19	30,31,38,40	0
3	GOL	C	301	6/6	0.86	0.18	34,35,40,40	0
3	GOL	C	306	6/6	0.86	0.19	42,47,52,52	0
5	PEG	E	110	7/7	0.86	0.19	18,22,25,29	0
3	GOL	C	302	6/6	0.86	0.26	43,53,58,59	0
8	PG4	C	324	13/13	0.86	0.27	46,53,62,62	0
4	NA	C	314	1/1	0.86	0.18	13,13,13,13	0
3	GOL	D	106	6/6	0.86	0.21	22,26,30,32	0
4	NA	A	339	1/1	0.86	0.49	53,53,53,53	0
3	GOL	A	307	6/6	0.86	0.25	38,42,44,45	0
6	PE8	E	113	25/25	0.86	0.20	18,31,39,44	0
5	PEG	A	320	7/7	0.86	0.24	38,49,57,61	0
8	PG4	D	119	13/13	0.86	0.17	15,24,28,30	0
5	PEG	D	115	7/7	0.86	0.18	27,38,42,47	0
8	PG4	A	328	13/13	0.87	0.32	30,39,47,48	0
3	GOL	D	124	6/6	0.87	0.20	35,45,50,53	0
5	PEG	A	342	7/7	0.87	0.21	34,36,45,46	0
8	PG4	B	104	13/13	0.87	0.17	20,30,35,35	0
7	EDO	B	103	4/4	0.87	0.20	20,20,20,21	0
3	GOL	C	310	6/6	0.87	0.20	33,44,46,48	0
3	GOL	E	104	6/6	0.87	0.18	29,32,34,35	0
5	PEG	C	339	7/7	0.88	0.20	24,26,31,33	0
8	PG4	A	334	13/13	0.88	0.19	29,40,45,51	0
8	PG4	A	337	13/13	0.88	0.17	27,30,52,52	0
8	PG4	A	338	13/13	0.88	0.26	24,40,57,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	GOL	B	110	6/6	0.88	0.15	38,41,45,46	0
4	NA	D	125	1/1	0.88	0.21	35,35,35,35	0
3	GOL	B	135	6/6	0.88	0.20	20,30,35,35	0
8	PG4	C	325	13/13	0.88	0.33	36,45,53,54	0
3	GOL	B	102	6/6	0.88	0.28	44,53,61,63	0
3	GOL	B	107	6/6	0.88	0.15	8,22,36,42	0
8	PG4	D	101	13/13	0.88	0.34	33,55,67,69	0
5	PEG	E	111	7/7	0.88	0.28	28,38,47,49	0
7	EDO	B	124	4/4	0.88	0.21	32,38,45,46	0
6	PE8	A	323	25/25	0.88	0.19	9,18,28,29	0
4	NA	D	102	1/1	0.88	0.36	37,37,37,37	0
6	PE8	B	105	25/25	0.88	0.23	36,45,54,55	0
3	GOL	B	109	6/6	0.88	0.19	37,40,47,48	0
8	PG4	D	127	13/13	0.88	0.17	19,26,32,34	0
9	SO4	D	113	5/5	0.88	0.18	52,62,65,67	0
8	PG4	B	129	13/13	0.89	0.16	25,27,32,33	0
3	GOL	A	308	6/6	0.89	0.28	41,44,45,47	0
7	EDO	C	323	4/4	0.89	0.27	32,37,48,50	0
3	GOL	A	309	6/6	0.89	0.16	33,40,50,50	0
7	EDO	C	329	4/4	0.89	0.26	38,43,43,45	0
3	GOL	B	111	6/6	0.89	0.16	43,46,53,55	0
6	PE8	B	131	25/25	0.89	0.33	20,33,46,53	0
3	GOL	D	109	6/6	0.89	0.23	22,24,25,26	0
6	PE8	C	322	25/25	0.89	0.17	15,31,41,44	0
3	GOL	C	311	6/6	0.89	0.18	37,48,49,53	0
4	NA	E	106	1/1	0.89	0.35	16,16,16,16	0
3	GOL	B	138	6/6	0.89	0.45	20,29,36,39	0
3	GOL	B	112	6/6	0.89	0.19	34,36,40,41	0
4	NA	C	312	1/1	0.89	0.21	30,30,30,30	0
3	GOL	A	345	6/6	0.90	0.16	28,29,35,47	0
3	GOL	A	311	6/6	0.90	0.17	23,27,30,31	0
3	GOL	D	110	6/6	0.90	0.21	40,45,51,51	0
6	PE8	A	322	25/25	0.90	0.15	20,31,42,48	0
5	PEG	B	120	7/7	0.90	0.18	24,27,28,28	0
5	PEG	B	139	7/7	0.90	0.17	23,28,38,41	0
7	EDO	A	325	4/4	0.90	0.20	24,27,30,31	0
8	PG4	A	332	13/13	0.90	0.32	24,34,46,53	0
5	PEG	A	318	7/7	0.90	0.26	15,19,33,33	0
7	EDO	A	336	4/4	0.90	0.38	48,51,52,53	0
4	NA	B	133	1/1	0.90	0.38	26,26,26,26	0
8	PG4	A	344	13/13	0.90	0.15	33,37,47,51	0
3	GOL	A	310	6/6	0.90	0.58	39,46,54,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
8	PG4	B	125	13/13	0.90	0.15	37,44,50,50	0
8	PG4	B	126	13/13	0.90	0.18	26,33,45,48	0
4	NA	D	129	1/1	0.91	0.13	34,34,34,34	0
3	GOL	A	340	6/6	0.91	0.17	22,29,33,33	0
8	PG4	C	337	13/13	0.91	0.22	11,27,35,35	0
3	GOL	B	132	6/6	0.91	0.18	28,34,44,46	0
3	GOL	E	102	6/6	0.91	0.18	32,37,40,41	0
3	GOL	A	301	6/6	0.91	0.24	25,28,30,36	0
3	GOL	B	108	6/6	0.91	0.14	27,36,41,50	0
3	GOL	A	346	6/6	0.91	0.31	32,34,37,43	0
8	PG4	B	128	13/13	0.91	0.25	27,33,41,46	0
3	GOL	B	115	6/6	0.91	0.30	31,40,57,67	0
3	GOL	B	140	6/6	0.91	0.37	25,28,31,32	0
8	PG4	E	101	13/13	0.91	0.17	16,25,34,34	0
9	SO4	B	119	5/5	0.91	0.18	78,80,90,96	0
3	GOL	A	304	6/6	0.91	0.19	21,26,27,27	0
3	GOL	D	103	6/6	0.92	0.20	37,45,54,56	0
8	PG4	A	333	13/13	0.92	0.16	14,20,24,24	0
4	NA	E	105	1/1	0.92	0.23	35,35,35,35	0
3	GOL	C	341	6/6	0.92	0.30	11,27,37,45	0
3	GOL	A	313	6/6	0.92	0.16	7,19,27,28	0
8	PG4	C	326	13/13	0.92	0.15	23,36,39,39	0
7	EDO	A	343	4/4	0.92	0.36	34,37,39,43	0
8	PG4	A	329	13/13	0.92	0.14	18,33,51,54	0
6	PE8	B	121	25/25	0.92	0.19	20,27,33,37	0
9	SO4	D	112	5/5	0.92	0.22	47,57,65,75	0
4	NA	A	317	1/1	0.92	0.21	21,21,21,21	0
10	CL	D	120	1/1	0.92	0.08	41,41,41,41	0
7	EDO	A	326	4/4	0.93	0.24	22,24,26,28	0
3	GOL	A	305	6/6	0.93	0.16	35,40,44,47	0
3	GOL	B	134	6/6	0.93	0.16	18,21,35,42	0
5	PEG	A	321	7/7	0.93	0.12	19,35,41,43	0
9	SO4	D	114	5/5	0.93	0.22	40,46,47,48	0
4	NA	D	130	1/1	0.93	0.12	10,10,10,10	0
3	GOL	A	302	6/6	0.94	0.20	12,16,22,24	0
3	GOL	C	305	6/6	0.94	0.15	5,14,21,24	0
3	GOL	A	312	6/6	0.94	0.15	26,38,45,50	0
4	NA	D	128	1/1	0.94	0.24	44,44,44,44	0
3	GOL	C	338	6/6	0.94	0.15	14,23,33,34	0
9	SO4	D	126	5/5	0.94	0.20	39,48,58,66	0
9	SO4	E	107	5/5	0.94	0.16	49,50,57,61	0
5	PEG	C	340	7/7	0.94	0.13	19,26,36,39	0

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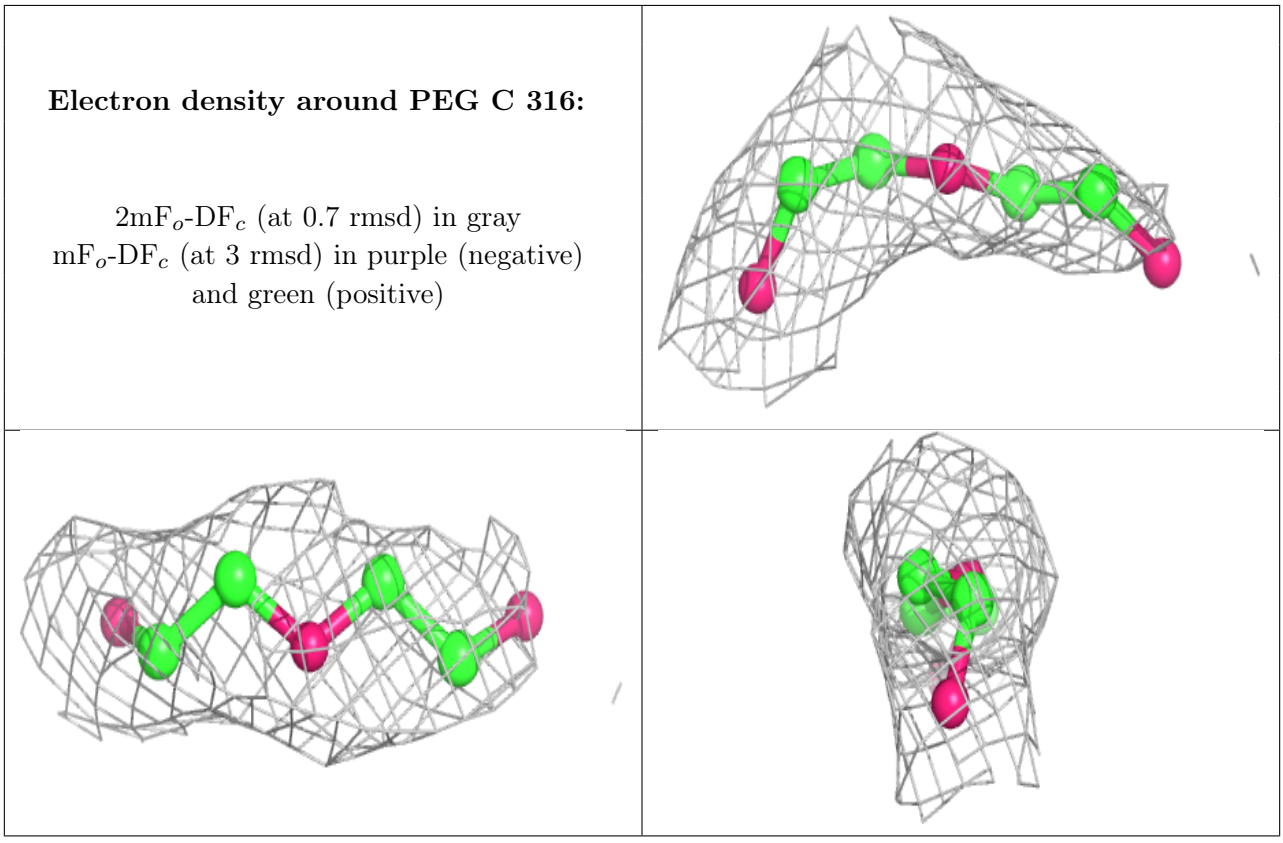
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
4	NA	C	335	1/1	0.95	0.20	19,19,19,19	0
3	GOL	A	306	6/6	0.95	0.14	22,34,39,39	0
4	NA	C	313	1/1	0.95	0.22	34,34,34,34	0
4	NA	A	315	1/1	0.95	0.14	14,14,14,14	0
4	NA	C	333	1/1	0.96	0.28	31,31,31,31	0
9	SO4	C	336	5/5	0.96	0.17	44,51,56,62	0
4	NA	B	142	1/1	0.96	0.17	8,8,8,8	0
3	GOL	B	106	6/6	0.96	0.08	26,31,32,36	0
4	NA	D	131	1/1	0.98	0.10	10,10,10,10	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

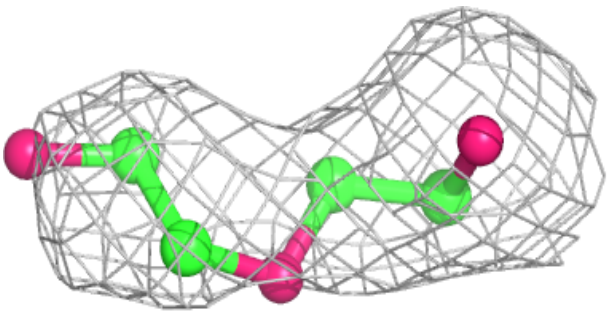
Electron density around PEG C 316:

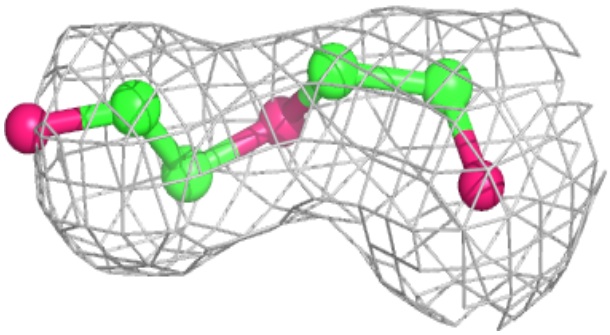
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

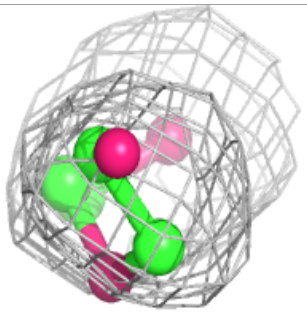


Electron density around PEG C 319:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

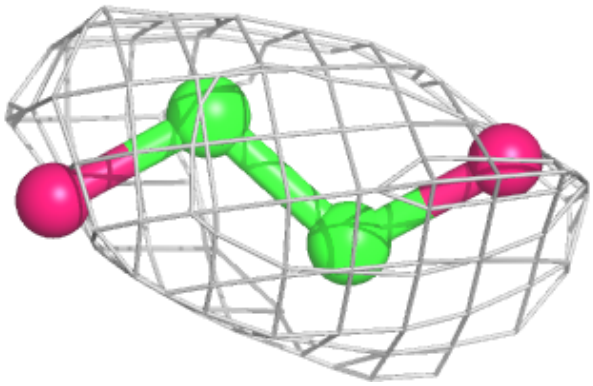


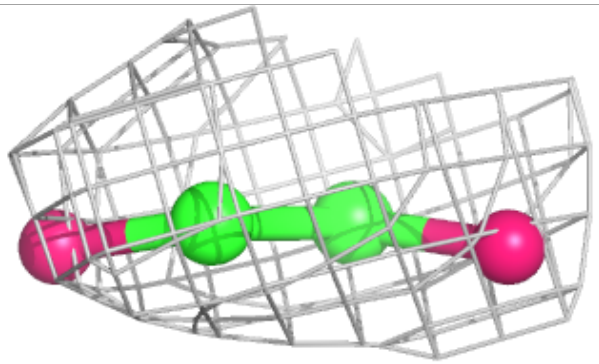


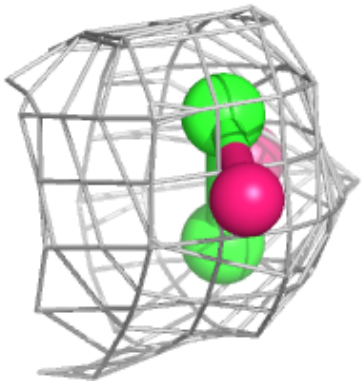


Electron density around EDO C 328:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

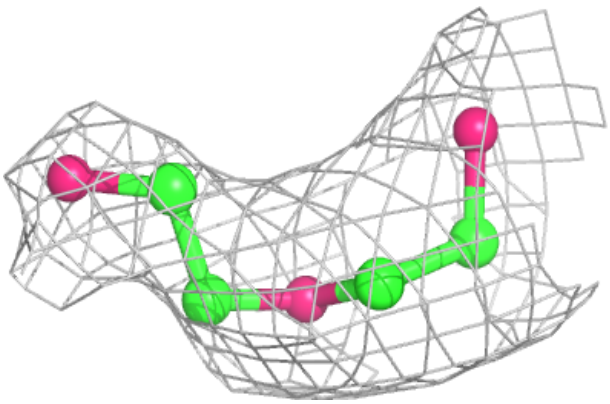


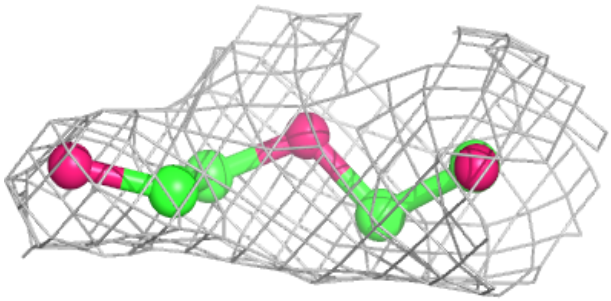


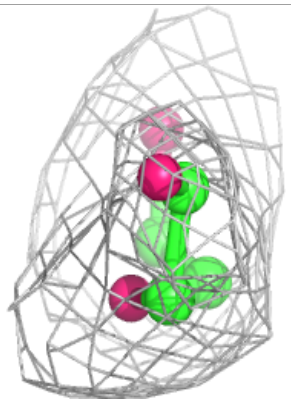


Electron density around PEG E 108:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

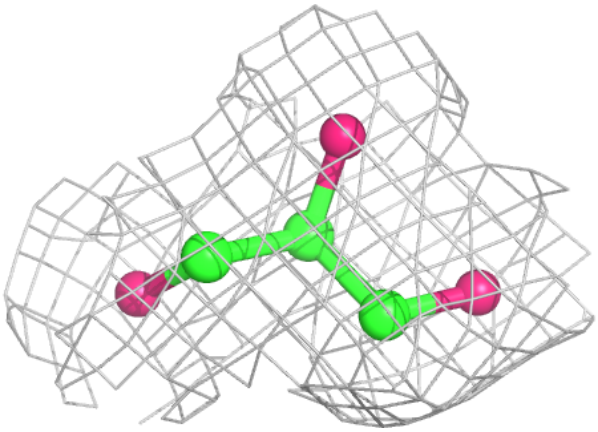


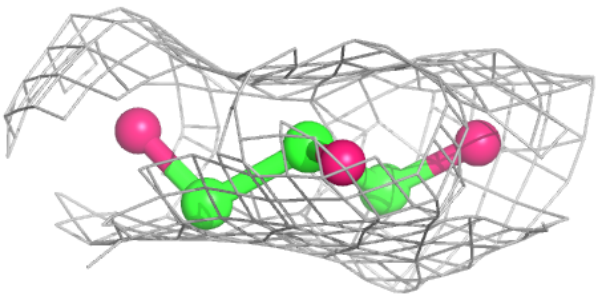


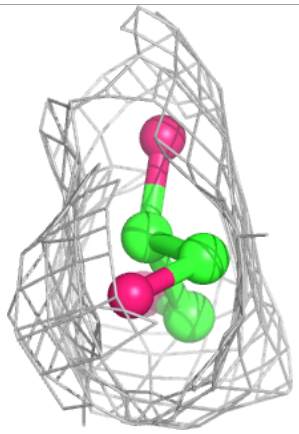


Electron density around GOL B 114:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

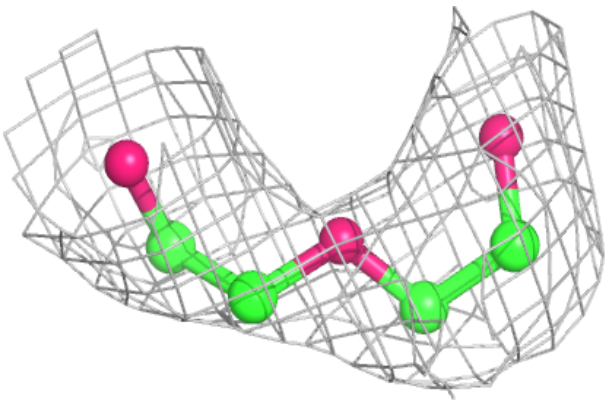


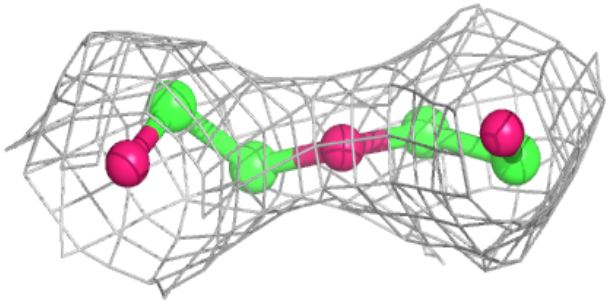


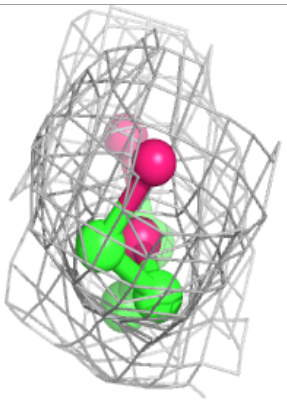


Electron density around PEG C 320:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

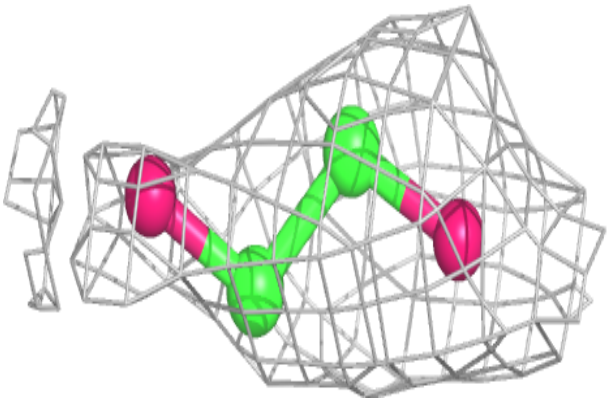


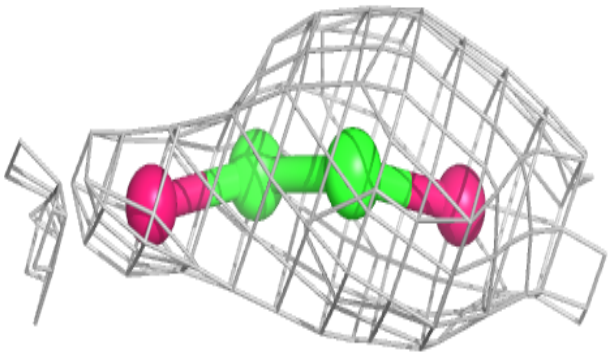


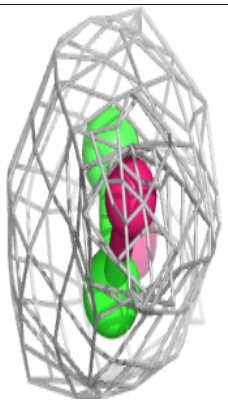


Electron density around EDO A 327:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

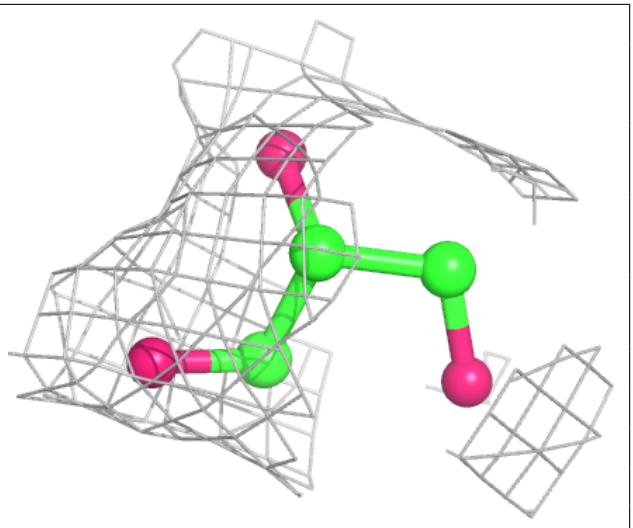


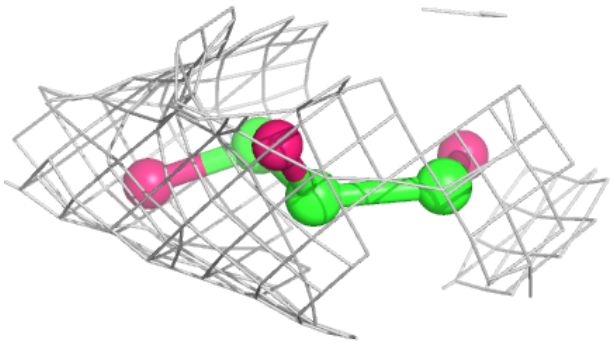


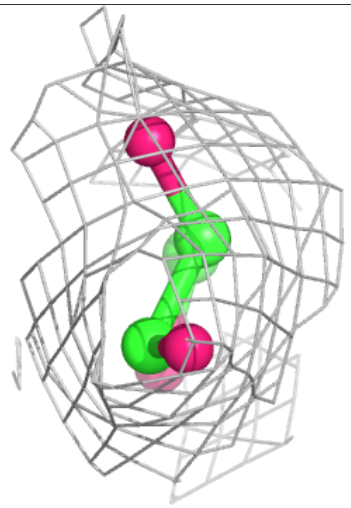


Electron density around GOL B 137:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

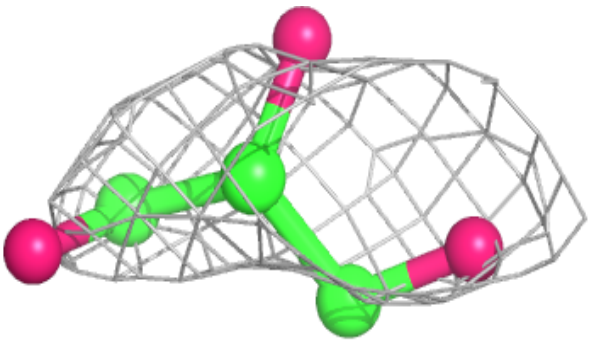


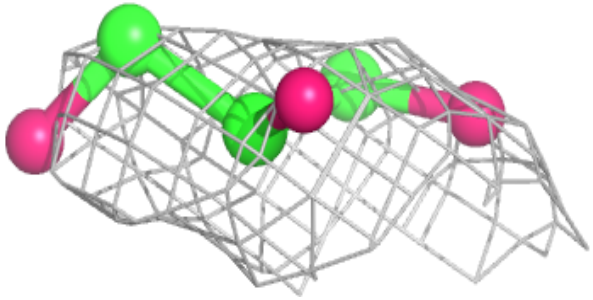


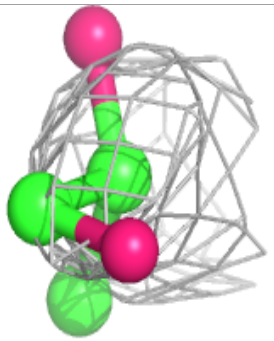


Electron density around GOL C 303:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

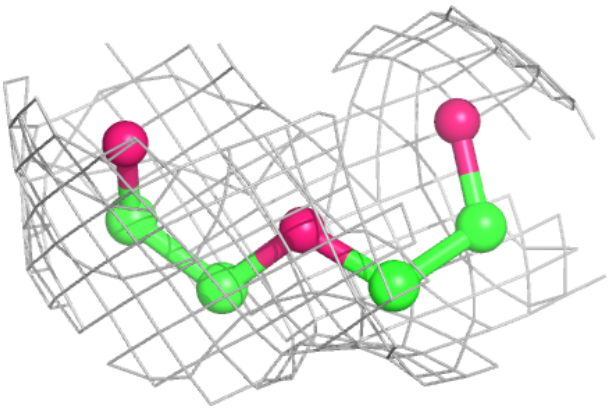


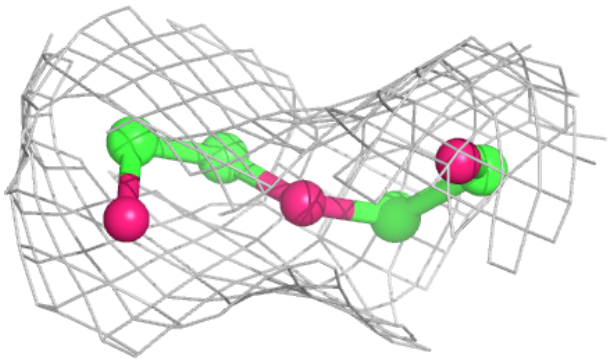


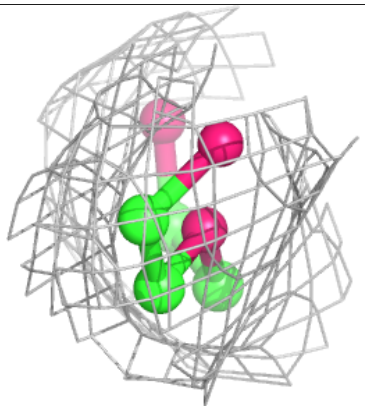


Electron density around PEG A 341:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

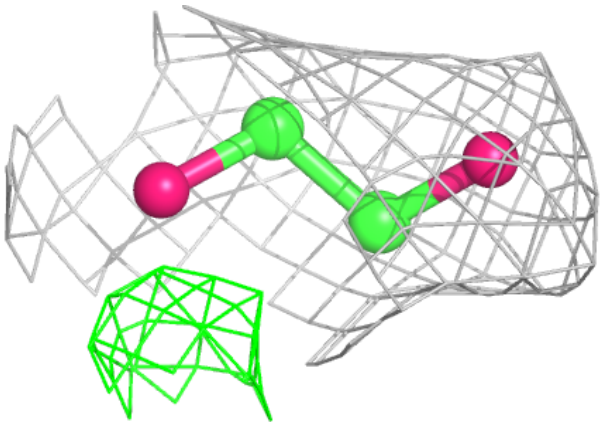


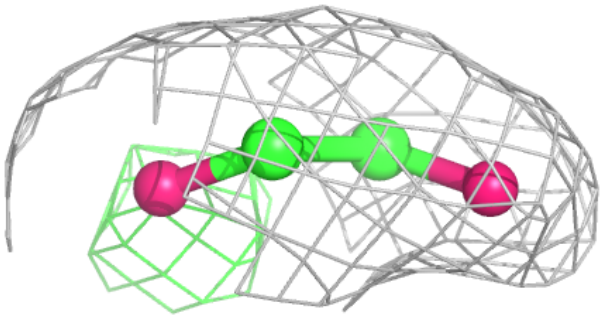


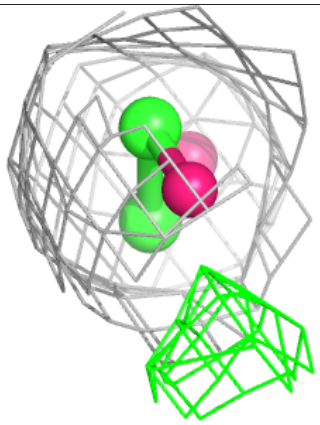


Electron density around EDO C 334:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

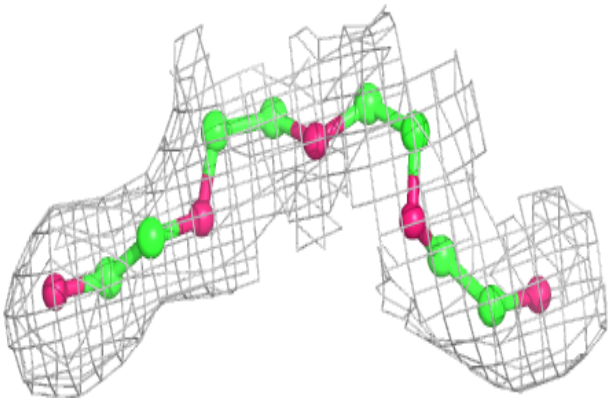


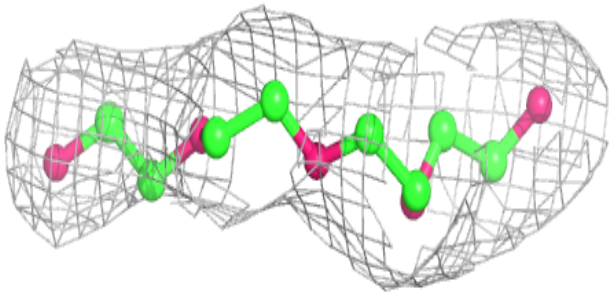


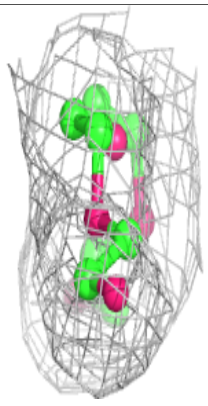


Electron density around PG4 C 332:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

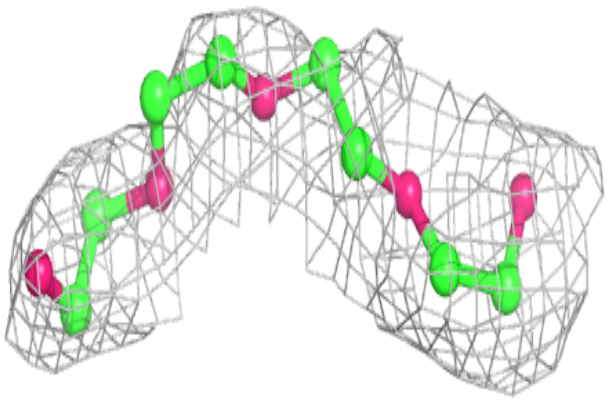


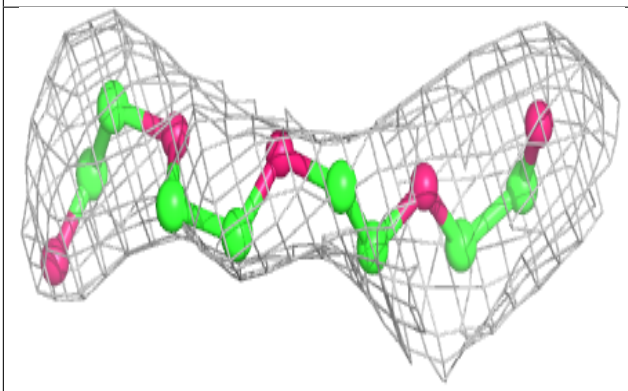


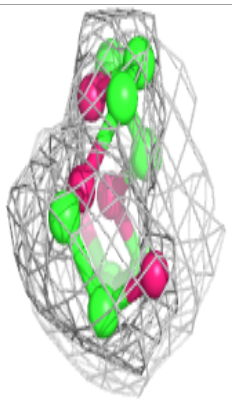


Electron density around PG4 D 117:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

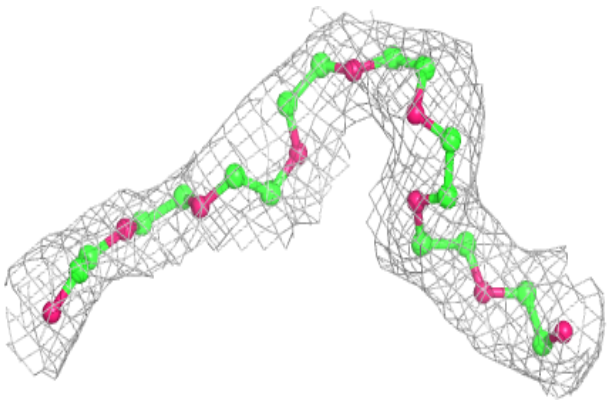


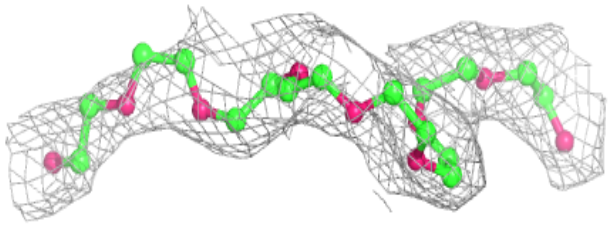


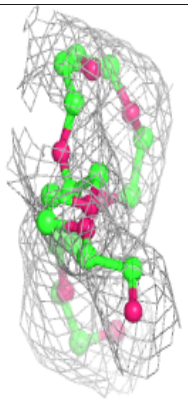


Electron density around PE8 C 321:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

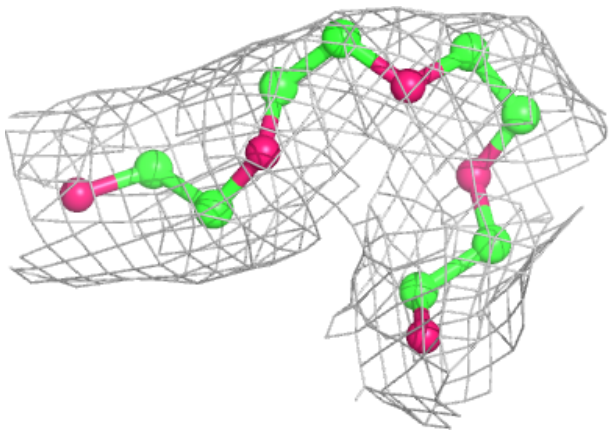


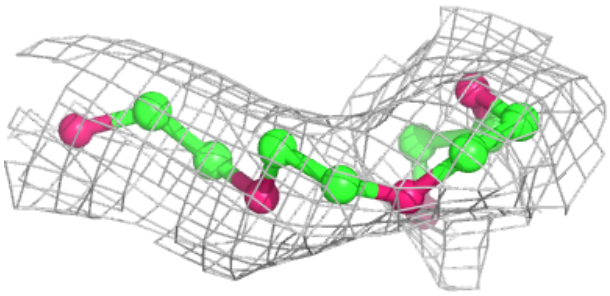


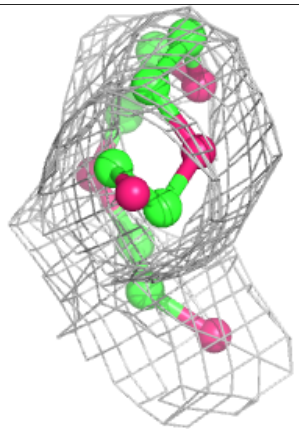


Electron density around PG4 A 331:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

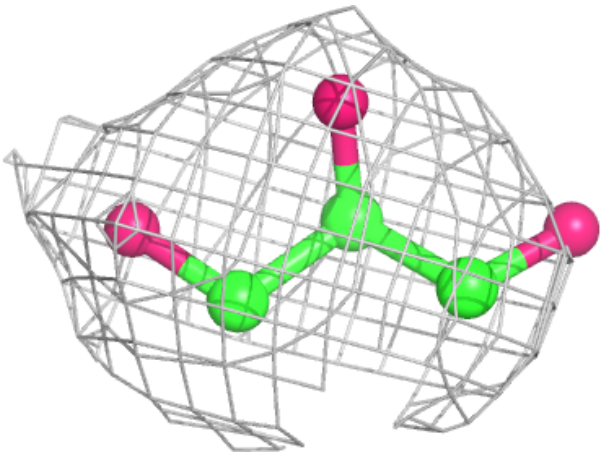


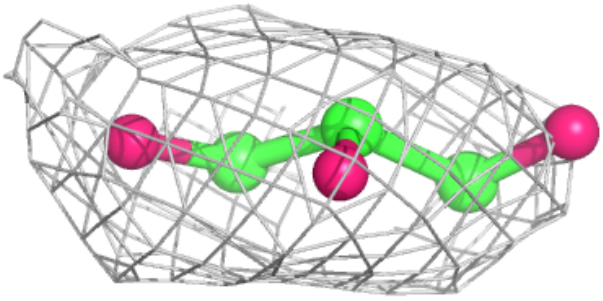


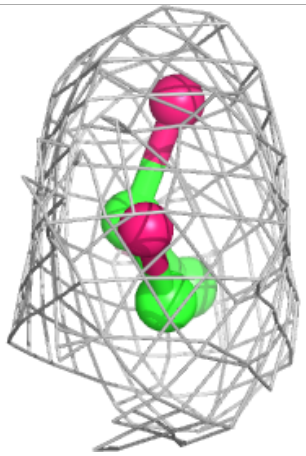


Electron density around GOL B 113:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

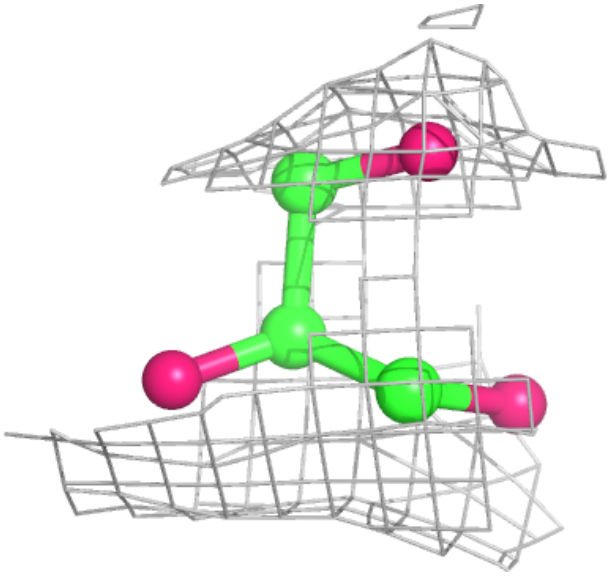


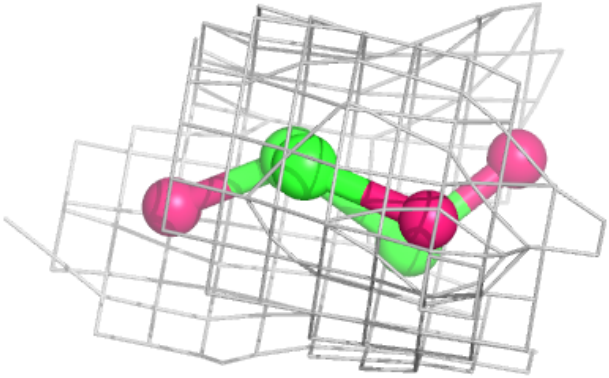


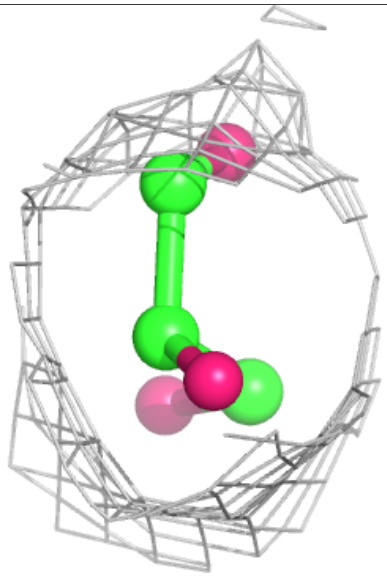


Electron density around GOL C 307:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

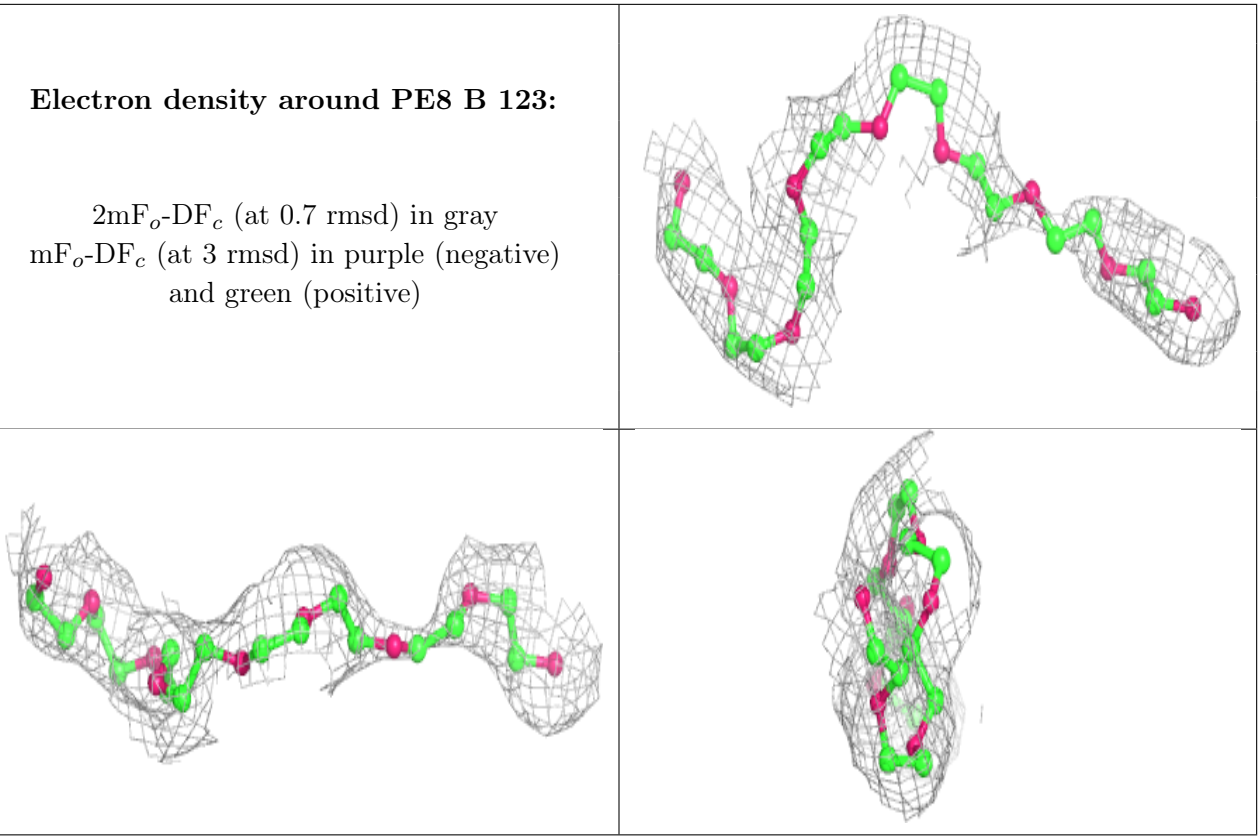






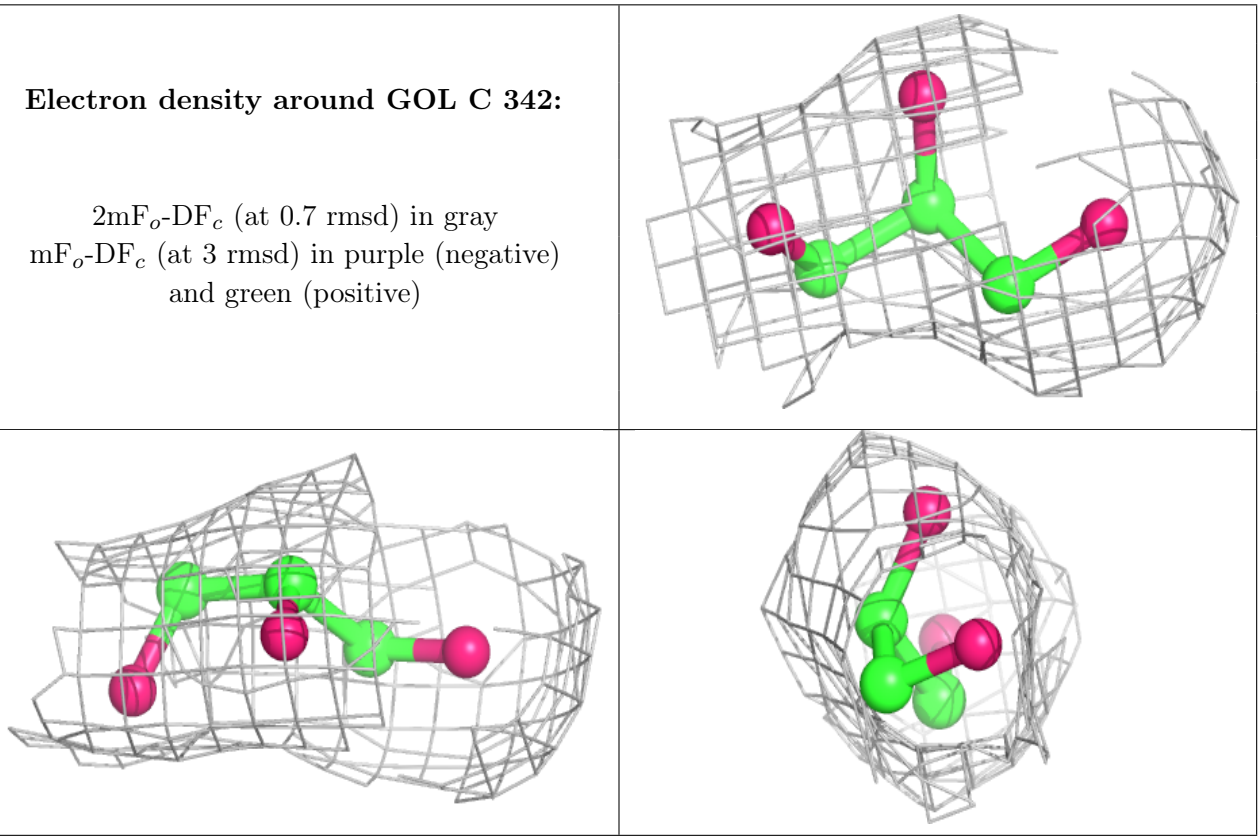
Electron density around PE8 B 123:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



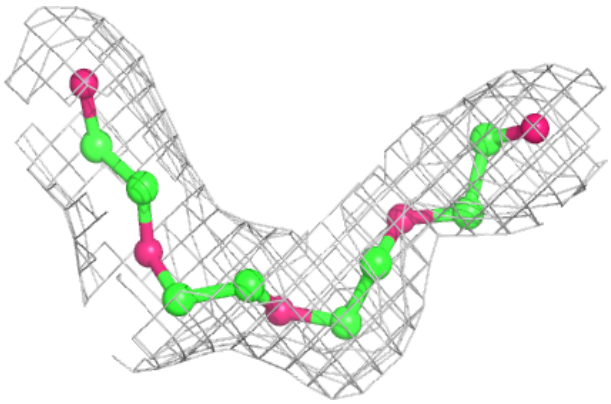
Electron density around GOL C 342:

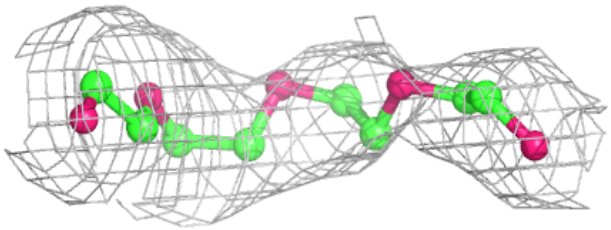
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

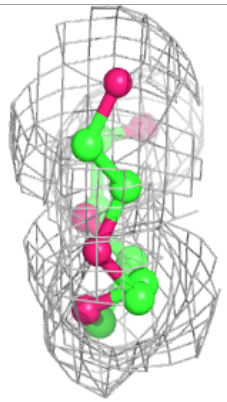


Electron density around PG4 D 118:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

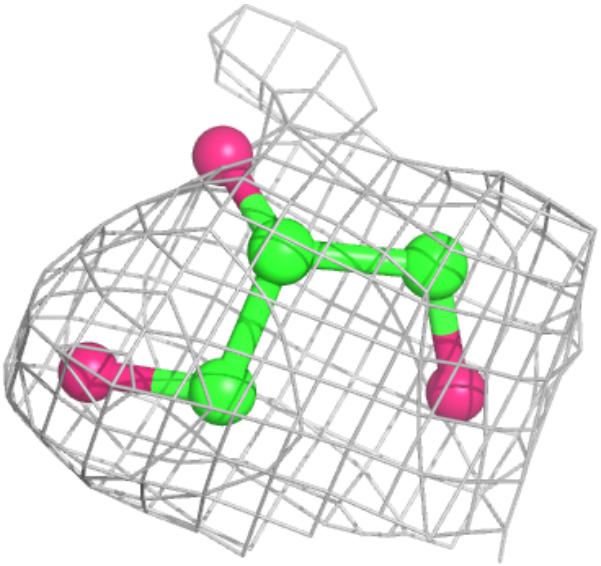


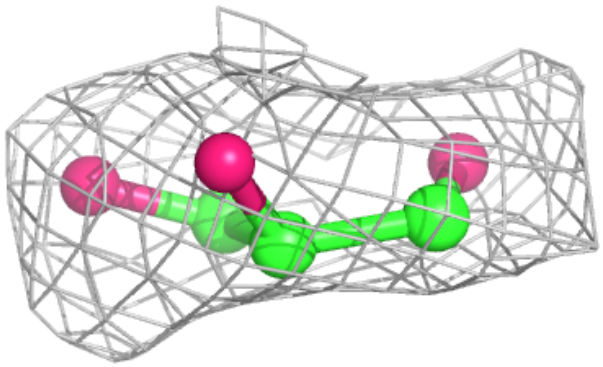


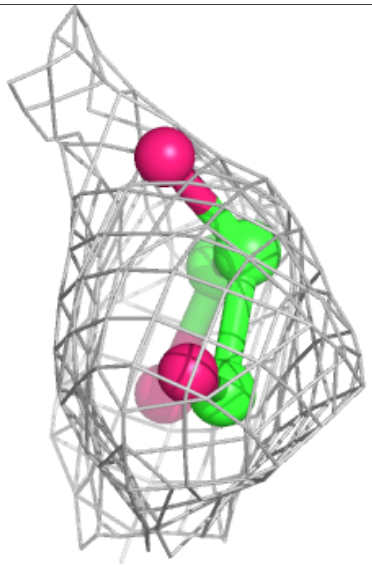


Electron density around GOL C 308:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

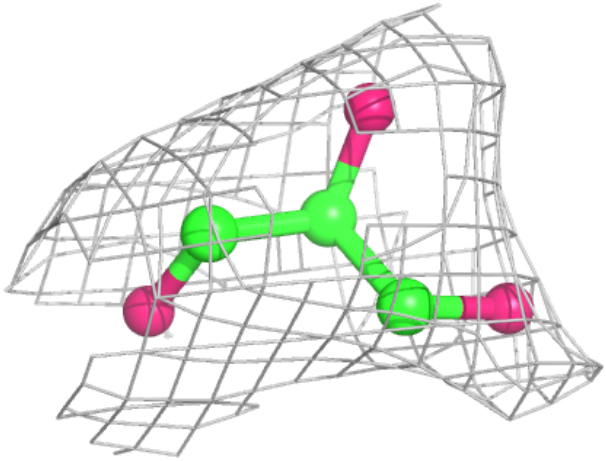


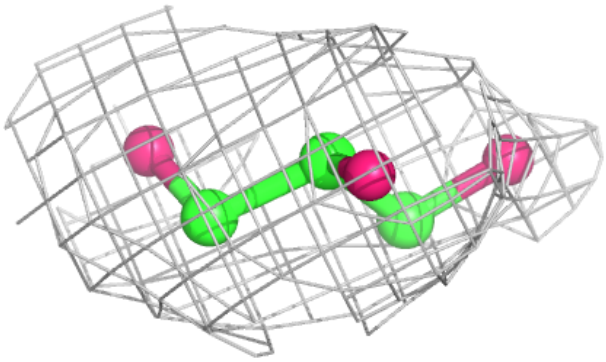


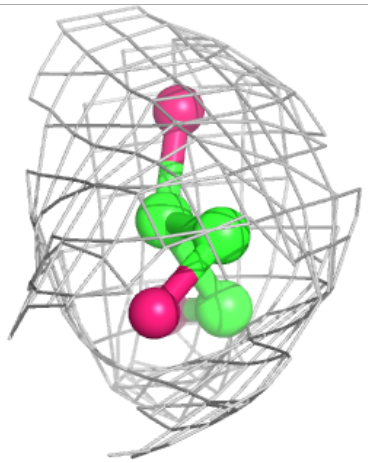


Electron density around GOL C 309:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

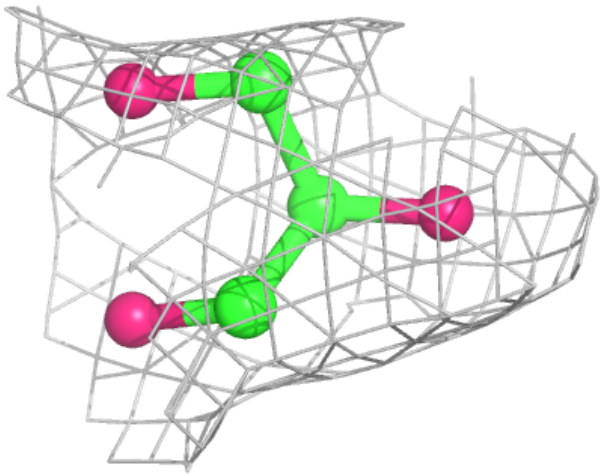


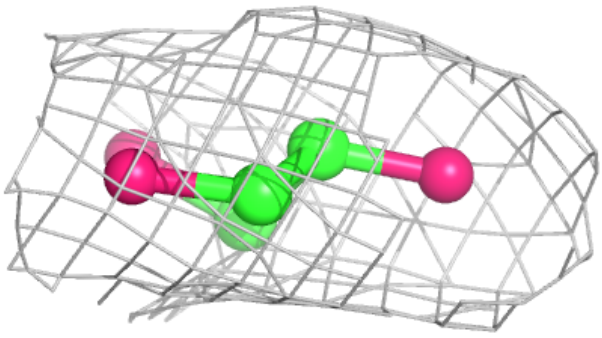


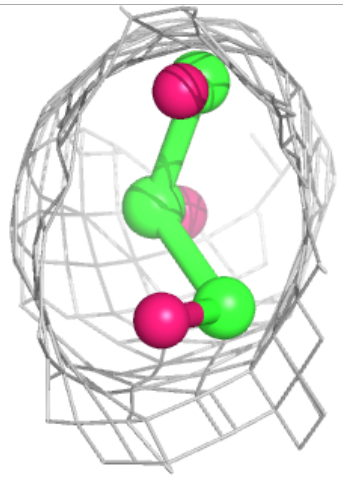


Electron density around GOL C 304:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

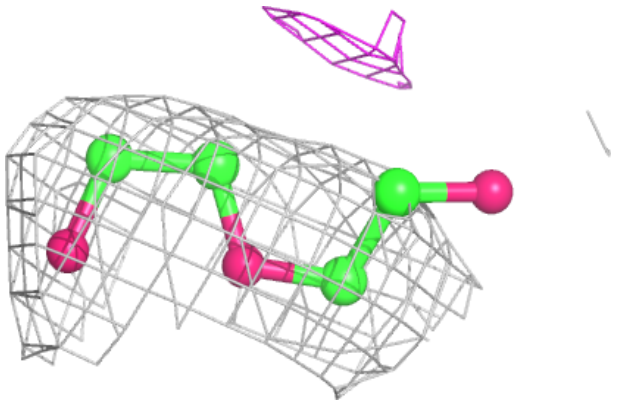


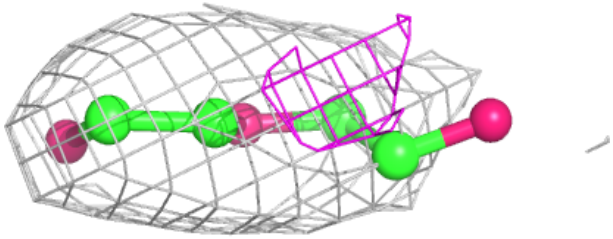


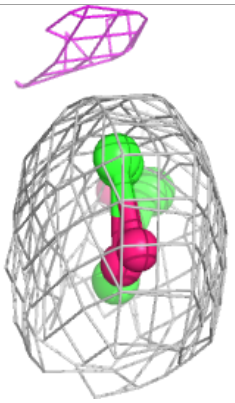


Electron density around PEG C 318:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

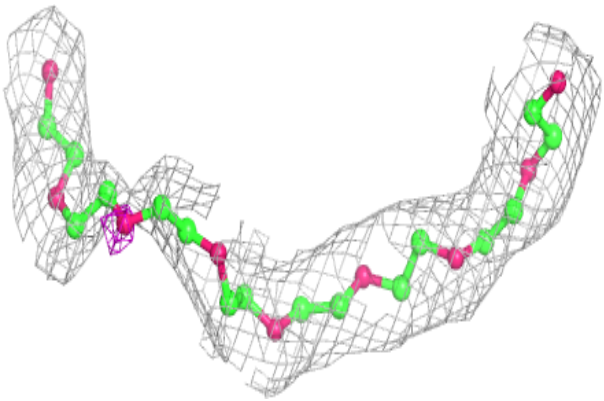


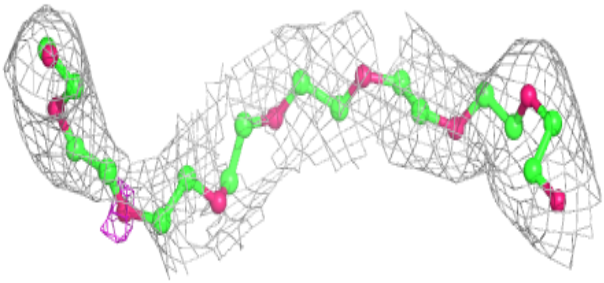


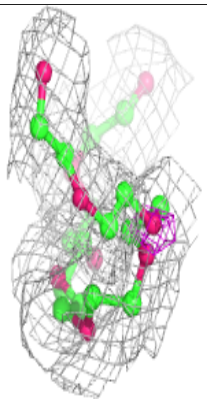


Electron density around PE8 E 112:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

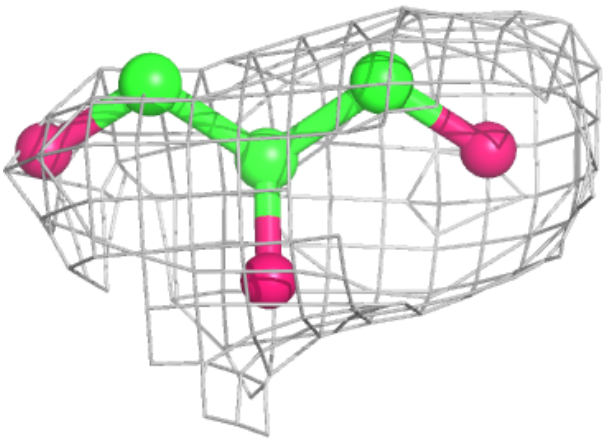


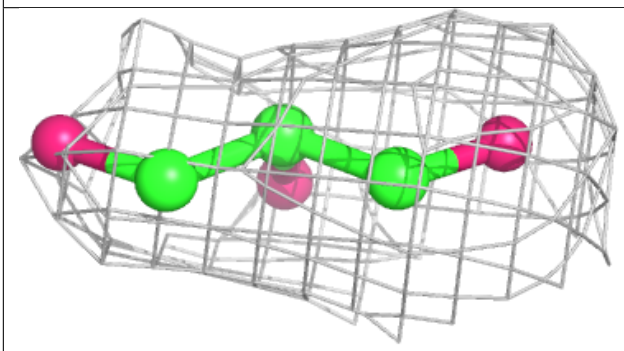


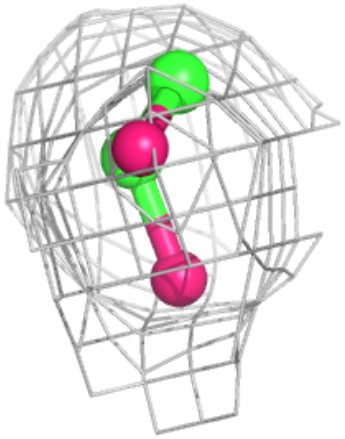


Electron density around GOL E 103:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

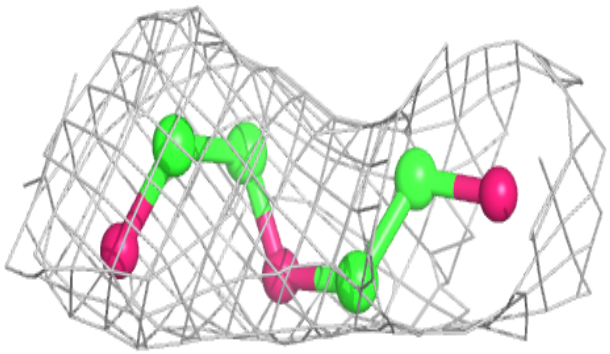


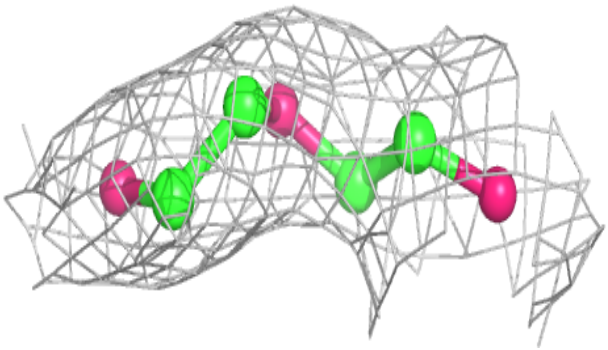


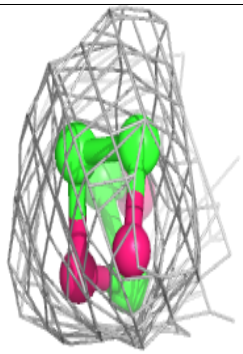


Electron density around PEG D 123:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

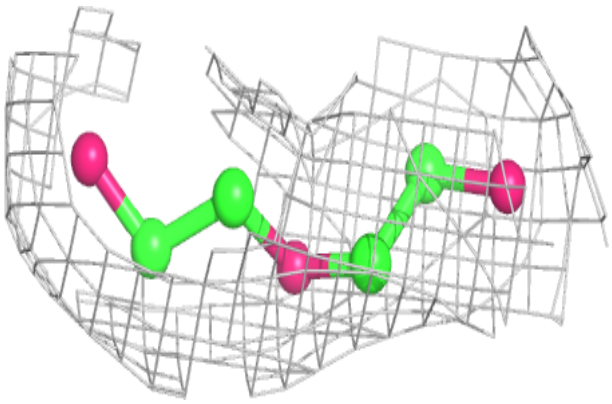


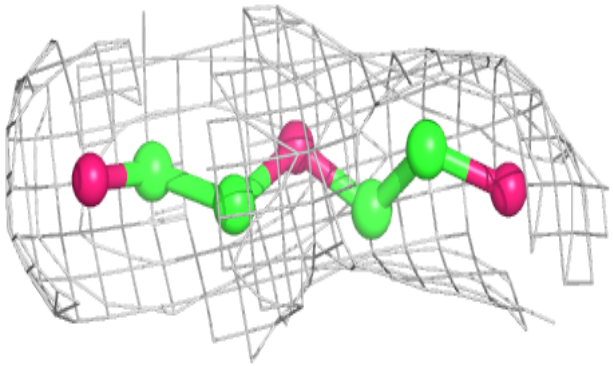


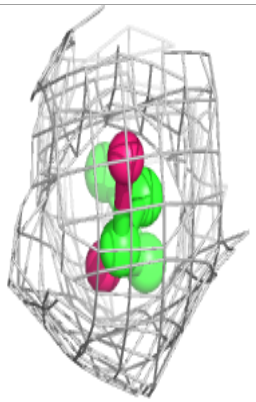


Electron density around PEG C 315:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

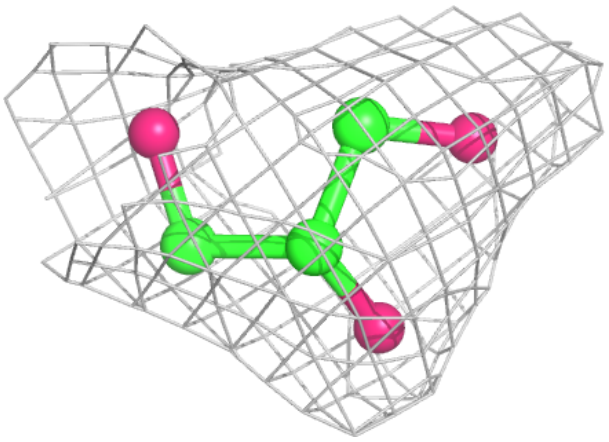


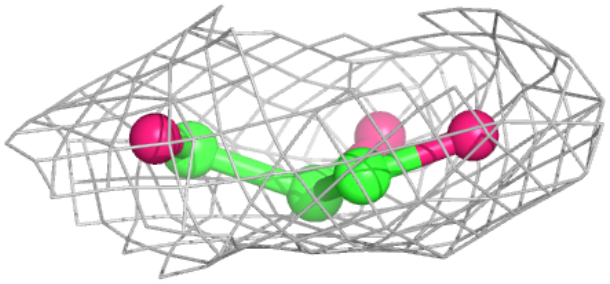


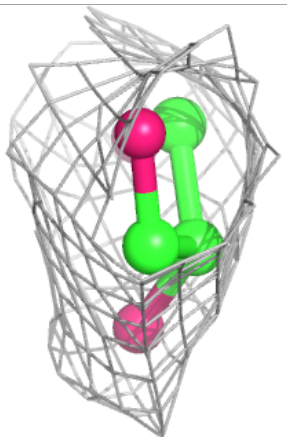


Electron density around GOL B 130:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

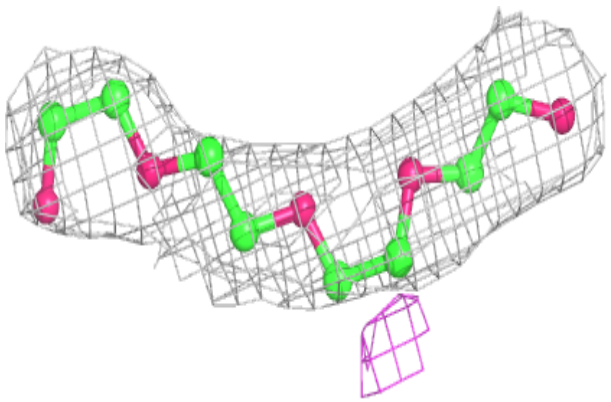


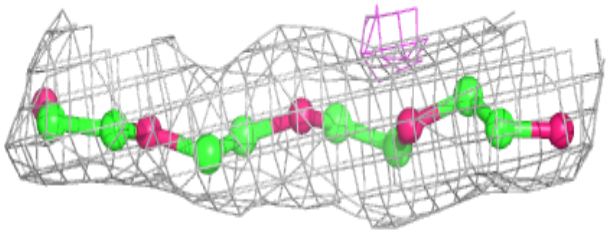


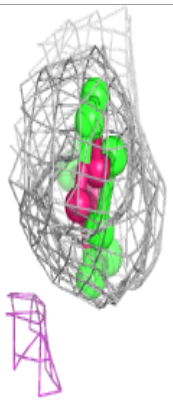


Electron density around PG4 C 327:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

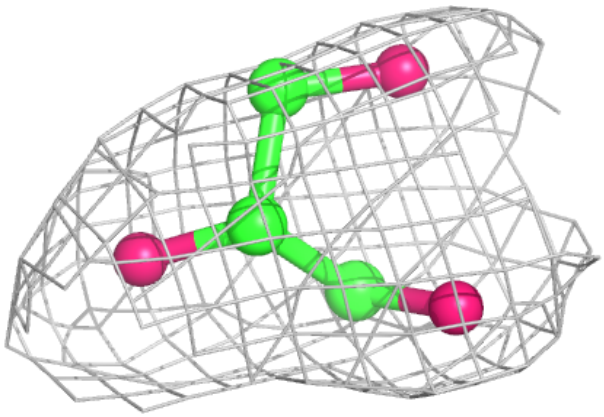


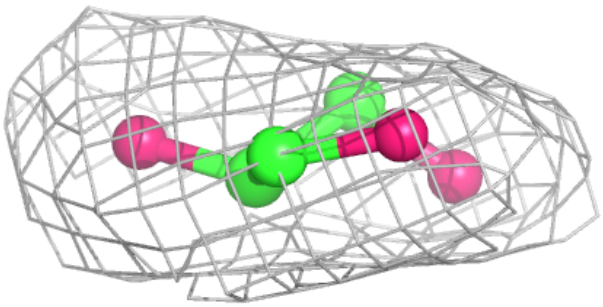


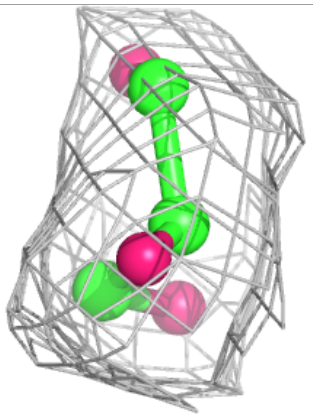


Electron density around GOL A 314:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

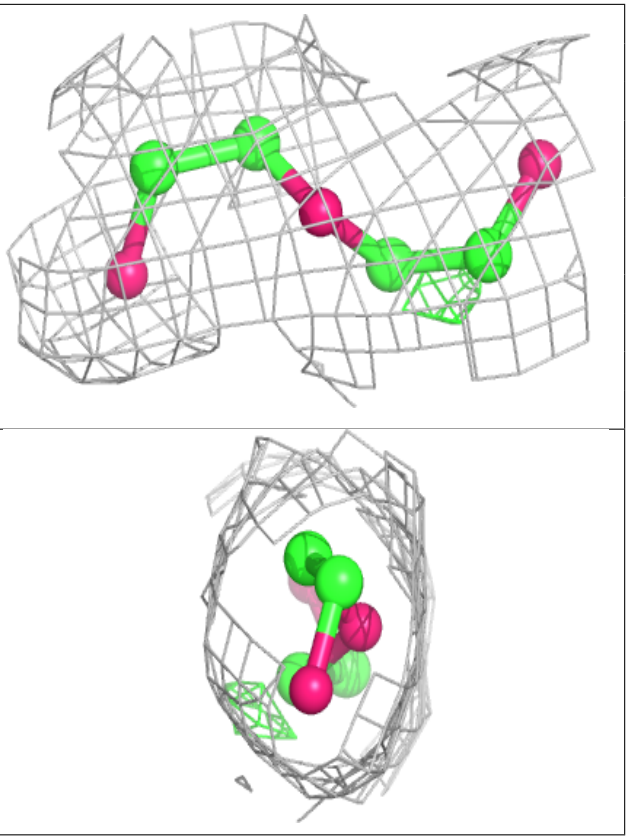






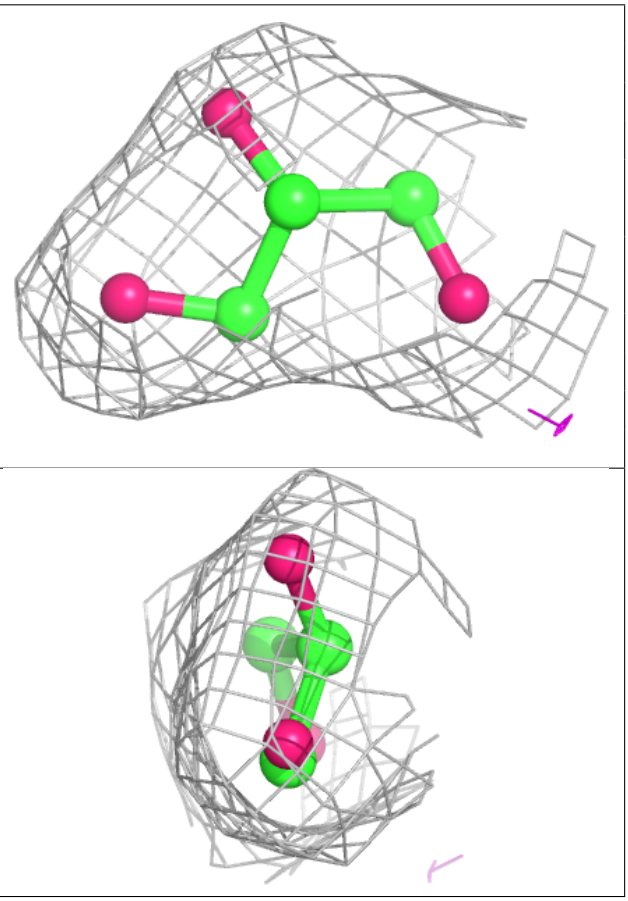
Electron density around PEG A 319:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



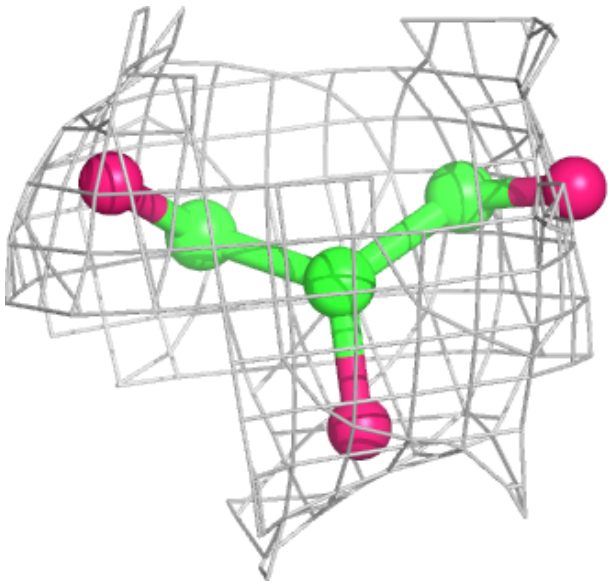
Electron density around GOL C 331:

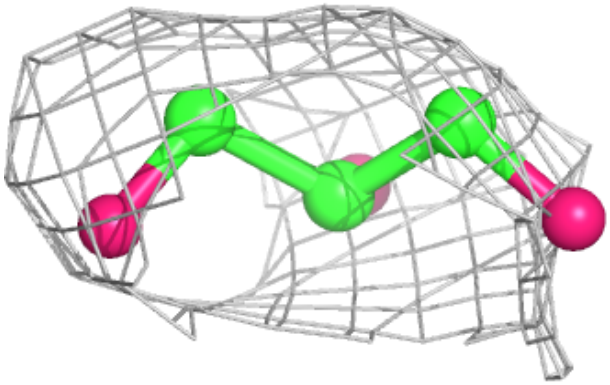
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

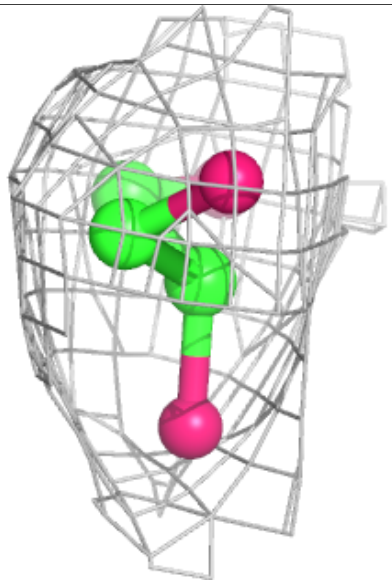


Electron density around GOL A 303:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

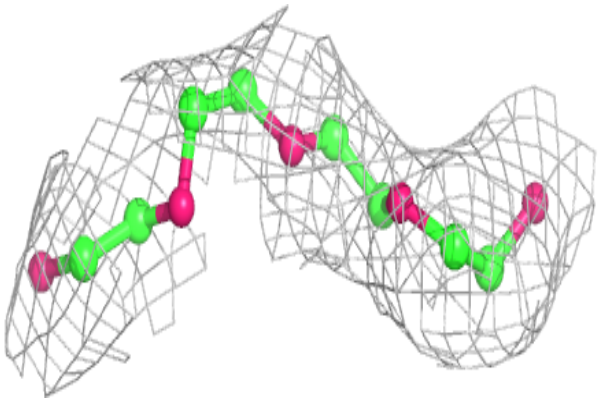


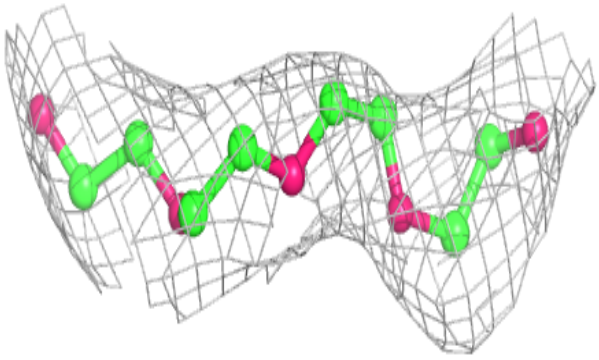


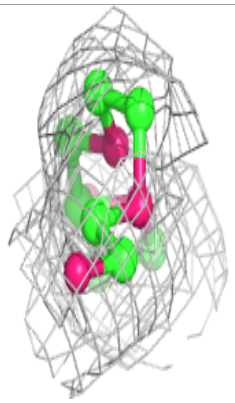


Electron density around PG4 D 105:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

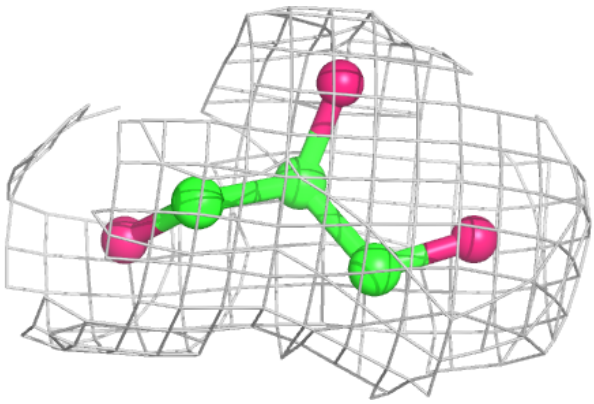


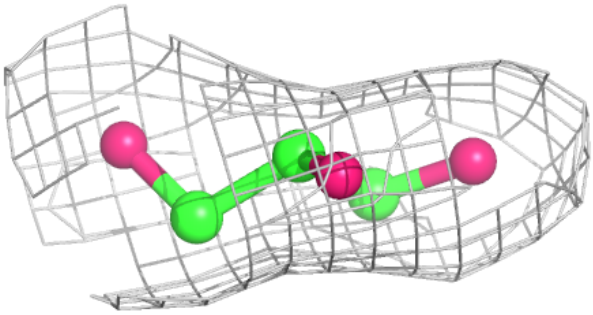


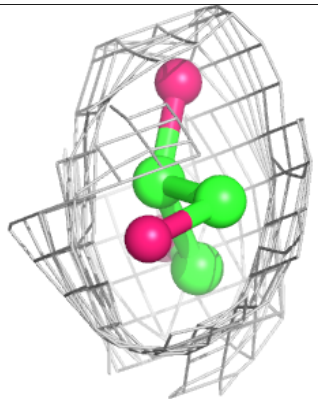


Electron density around GOL D 122:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

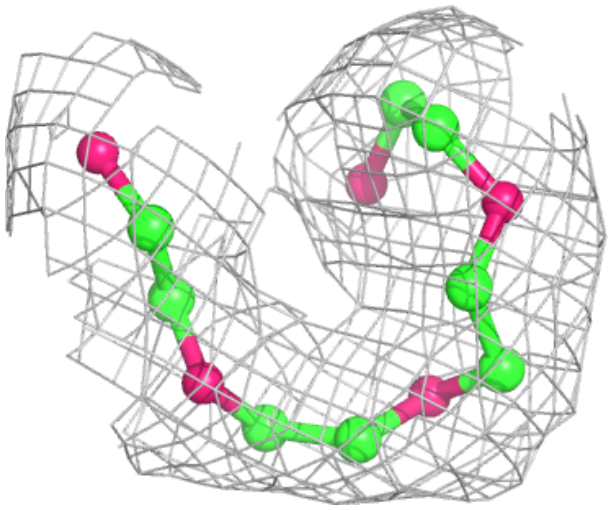


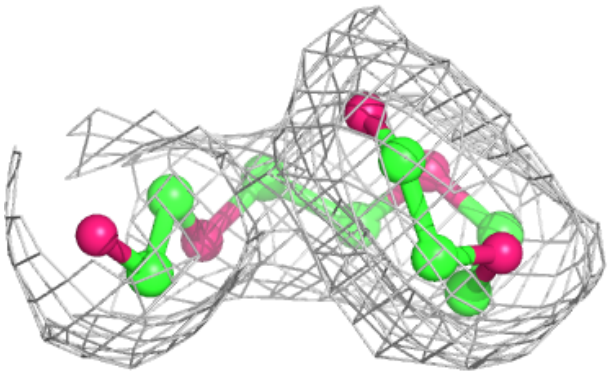


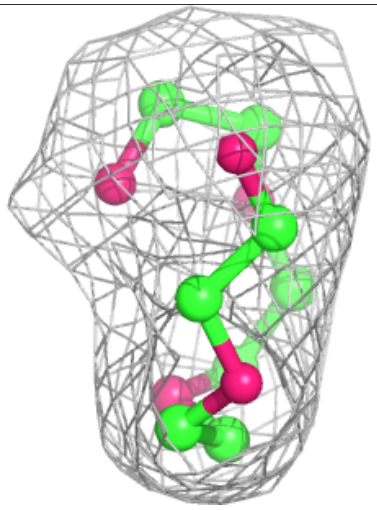


Electron density around PG4 B 127:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

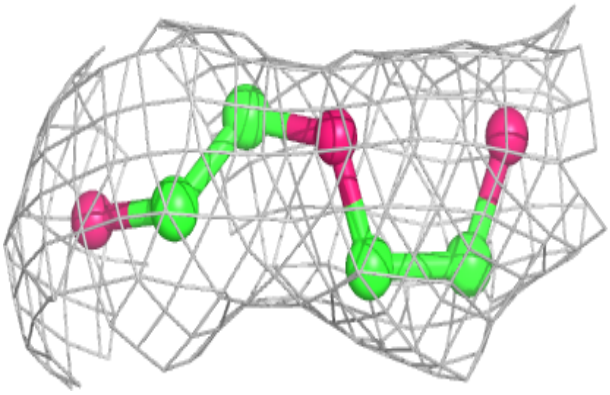


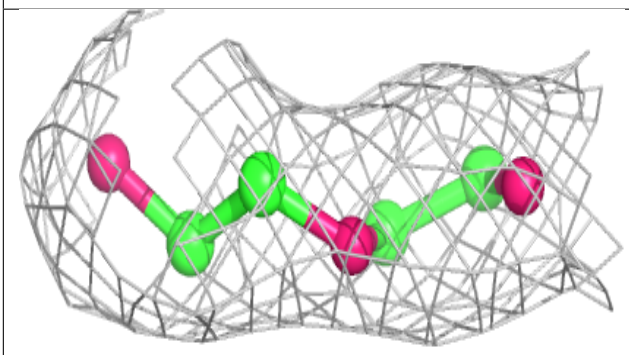


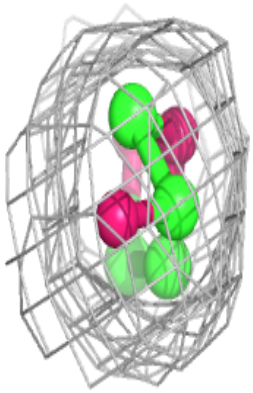


Electron density around PEG C 317:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

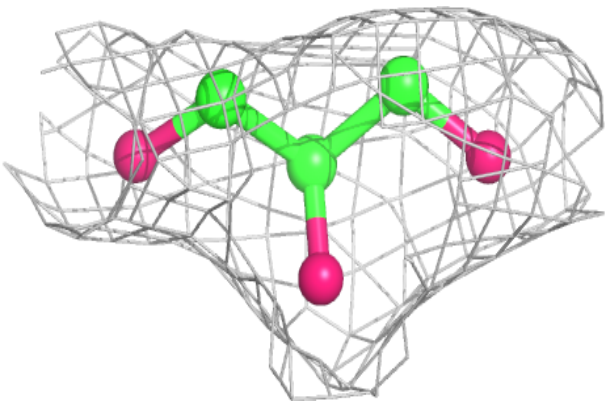


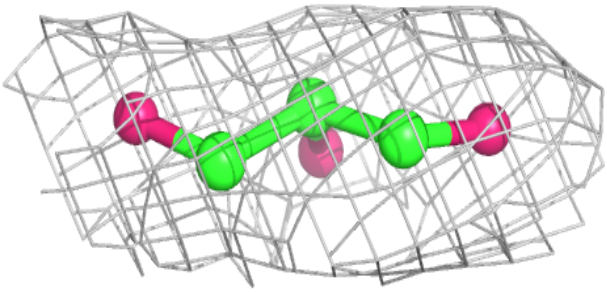


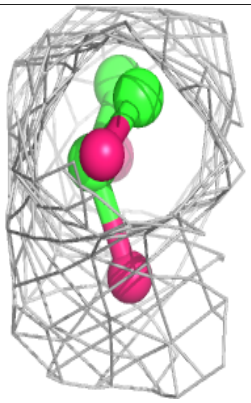


Electron density around GOL B 116:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

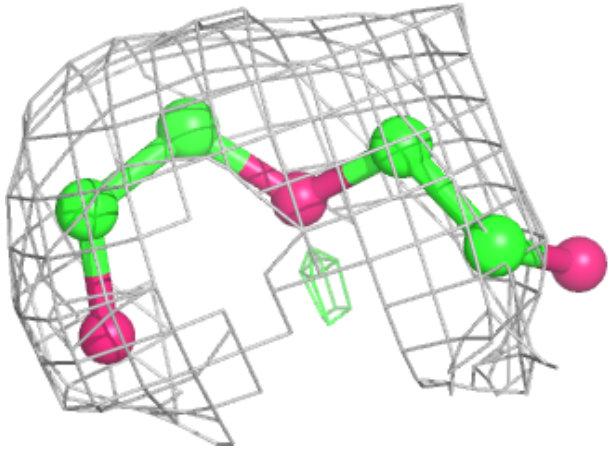


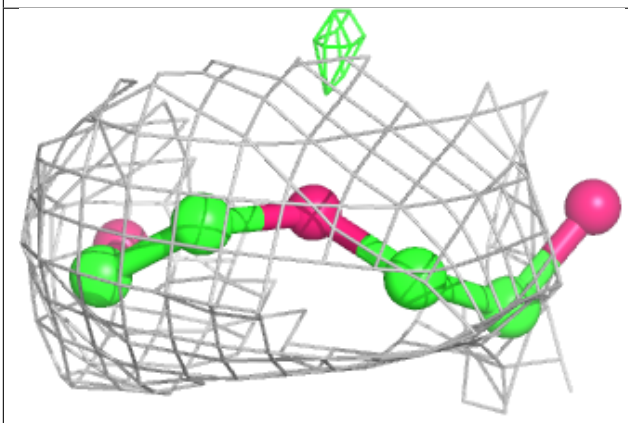


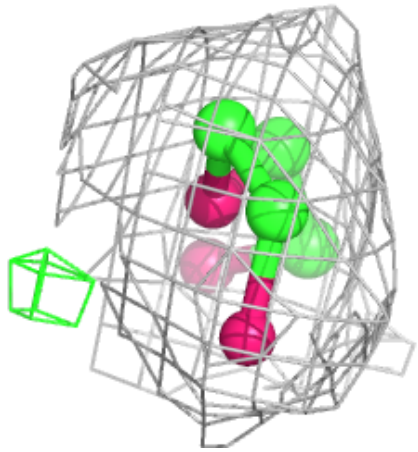


Electron density around PEG E 109:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

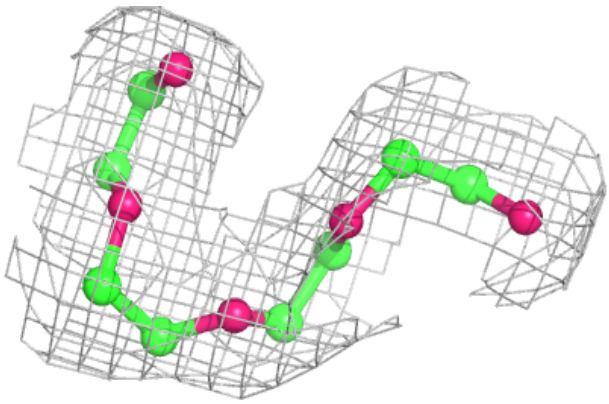


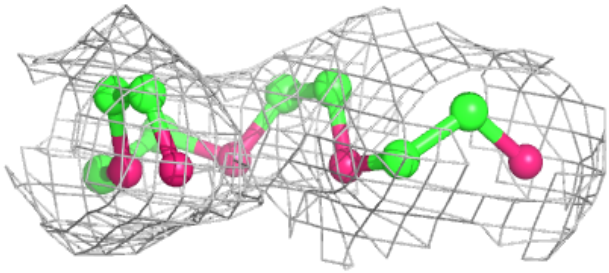


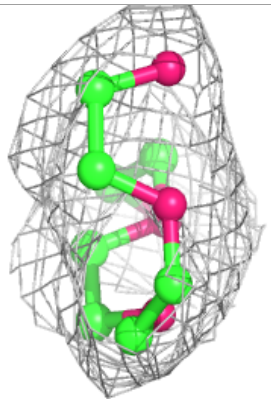


Electron density around PG4 A 330:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

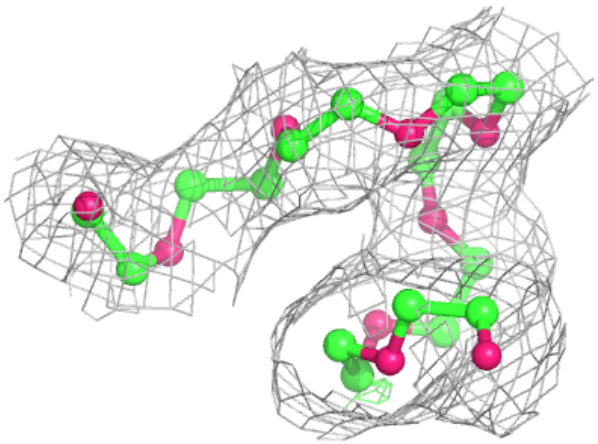


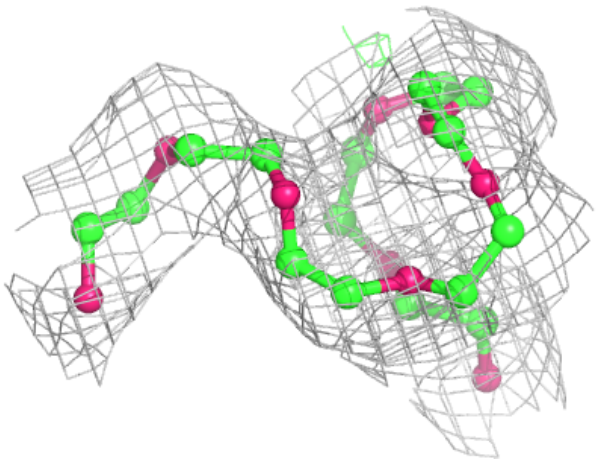


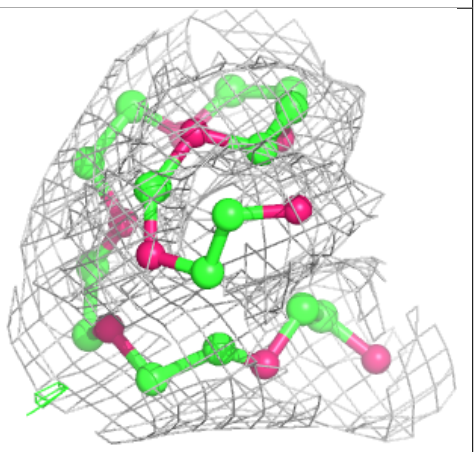


Electron density around PE8 E 114:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

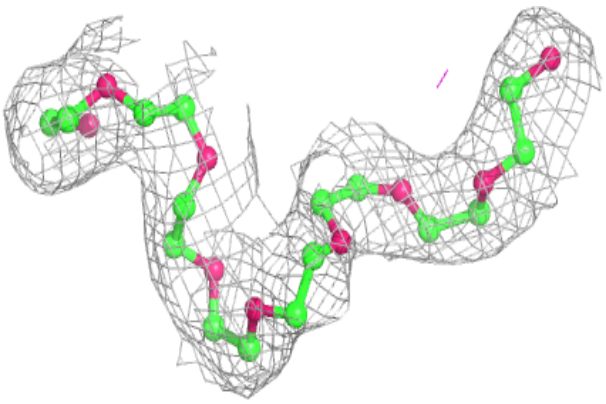


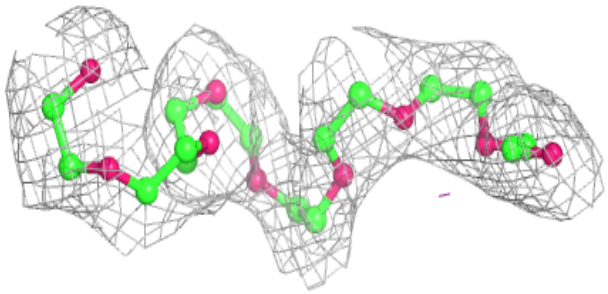


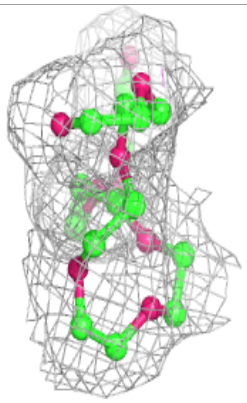


Electron density around PE8 A 324:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

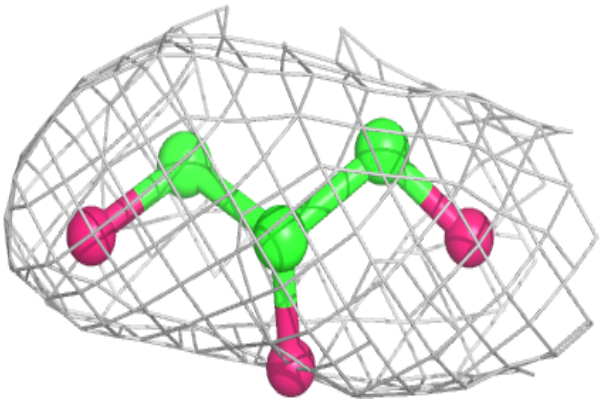


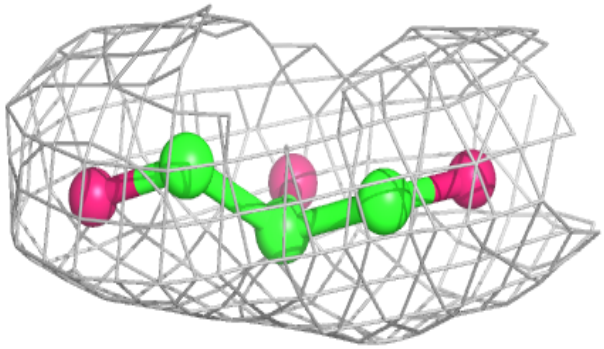


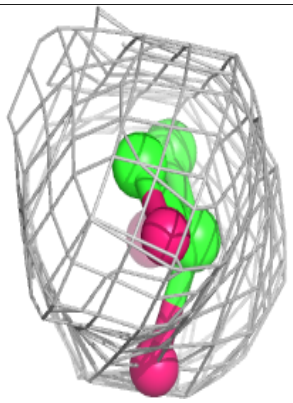


Electron density around GOL B 136:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

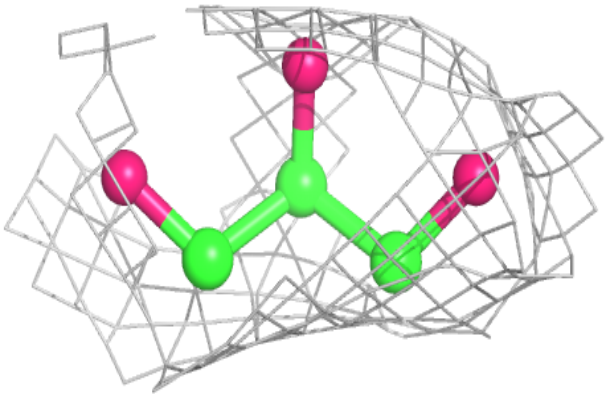


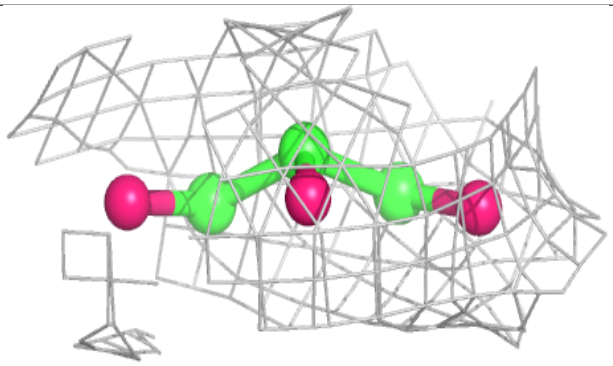


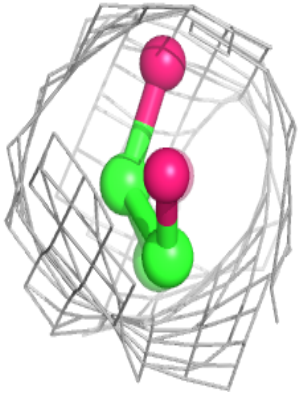


Electron density around GOL B 101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

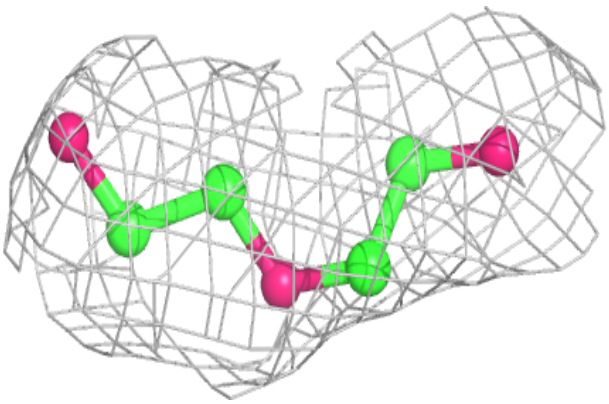


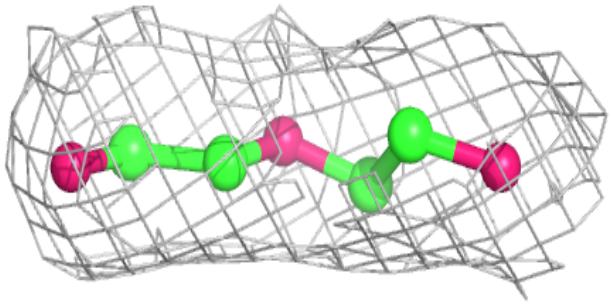


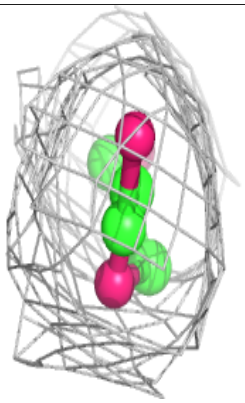


Electron density around PEG C 330:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

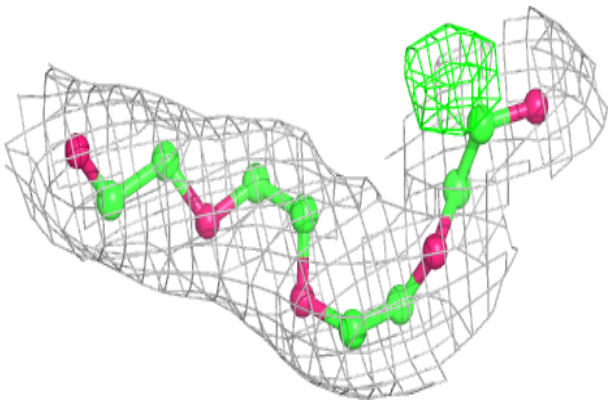


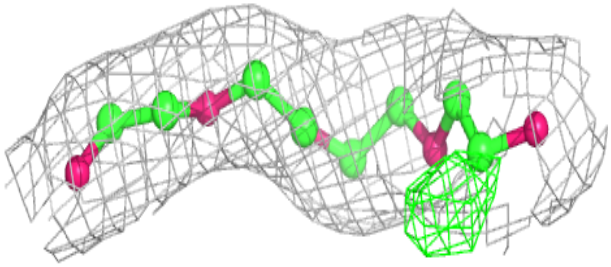


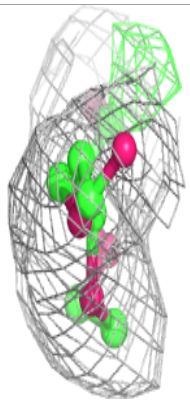


Electron density around PG4 D 121:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

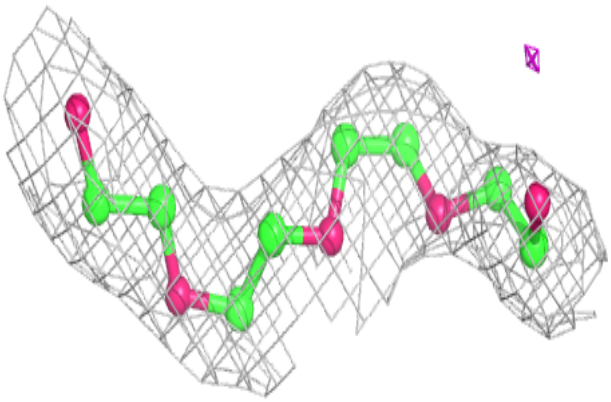


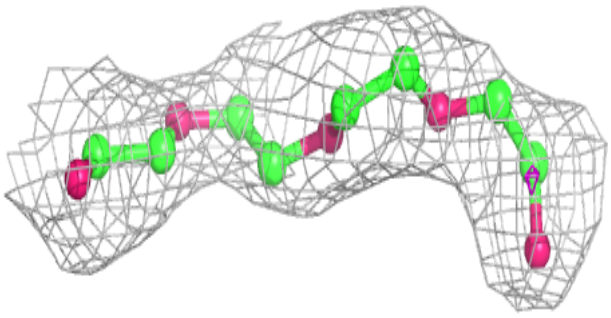


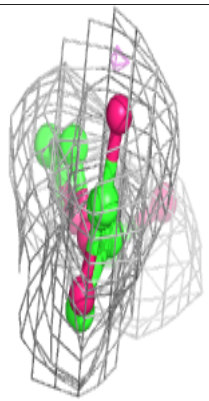


Electron density around PG4 D 116:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

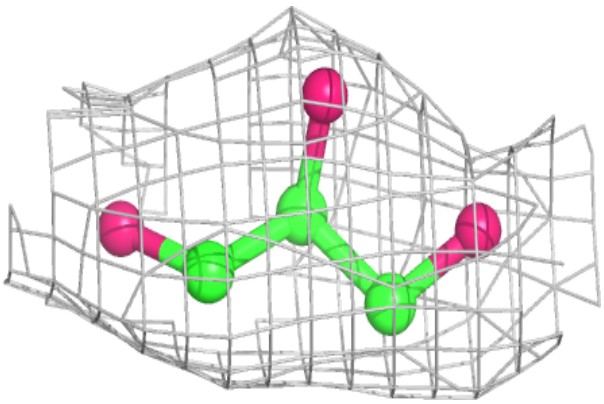


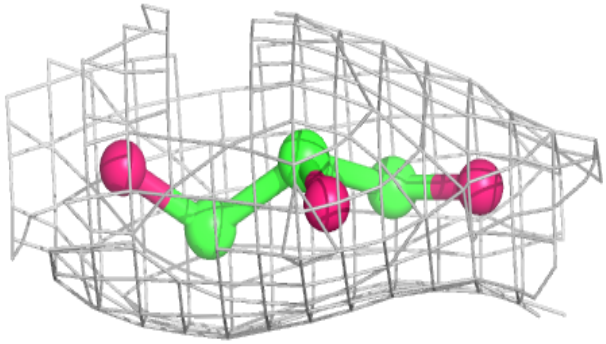


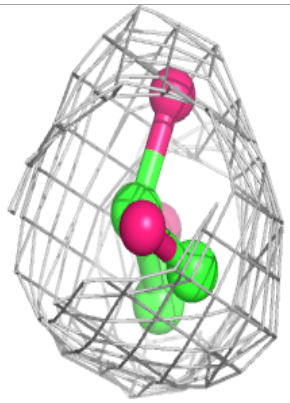


Electron density around GOL D 108:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

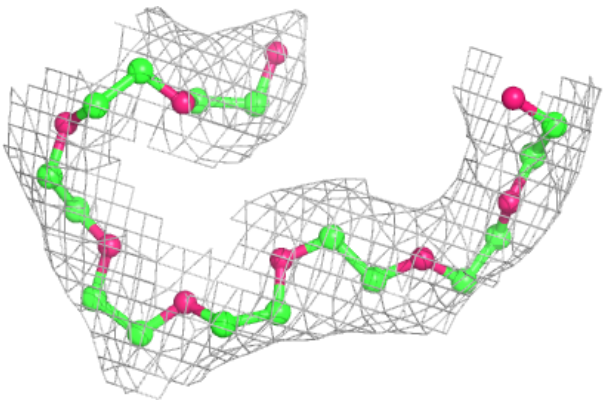


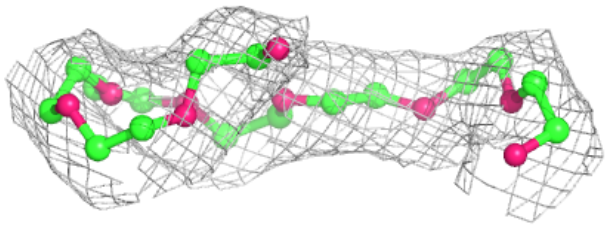


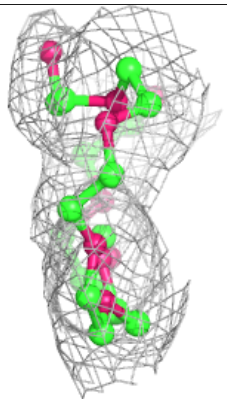


Electron density around PE8 B 122:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

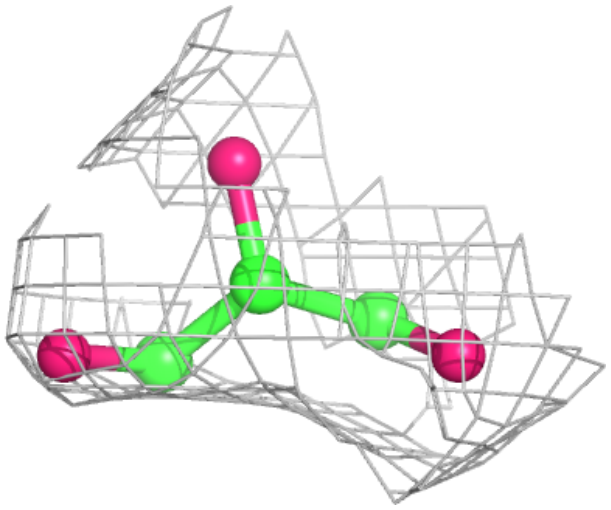


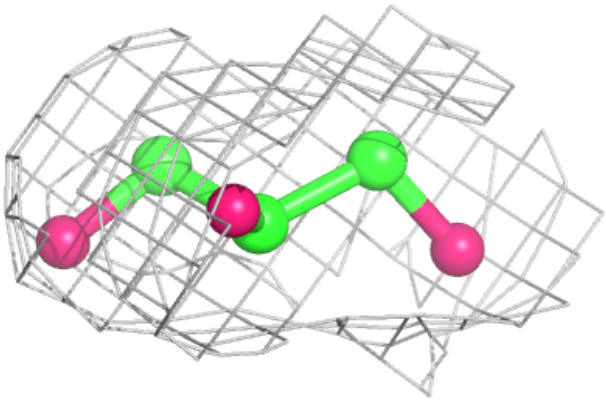


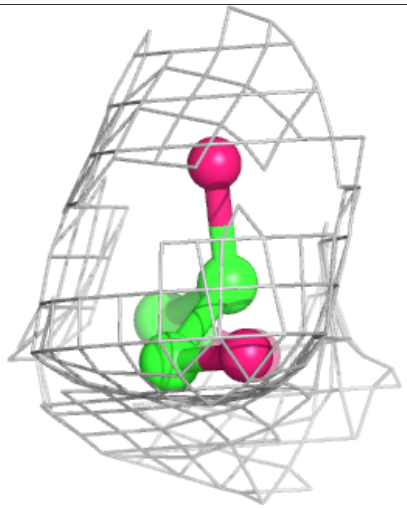


Electron density around GOL D 107:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

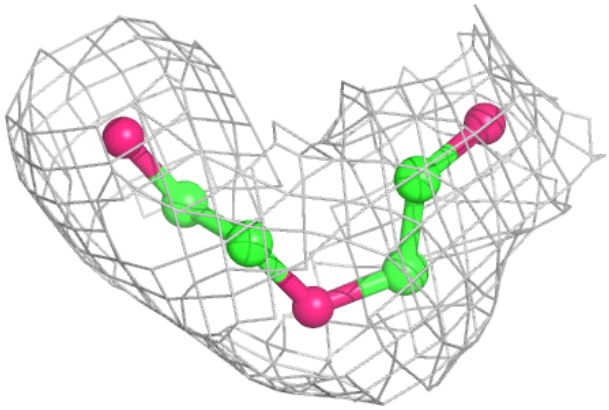


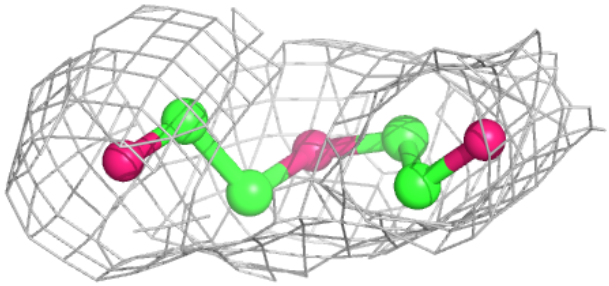


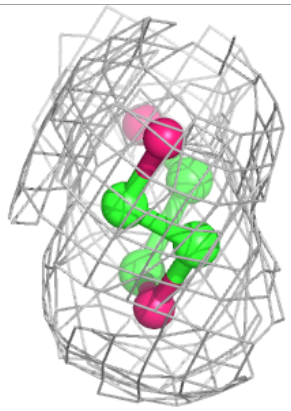


Electron density around PEG A 335:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

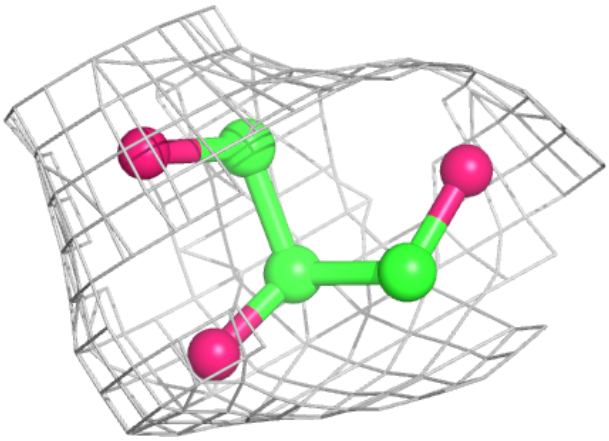


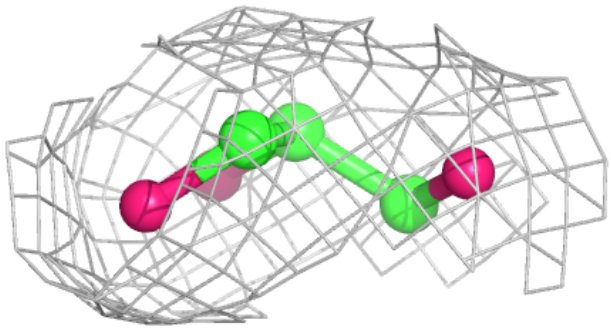


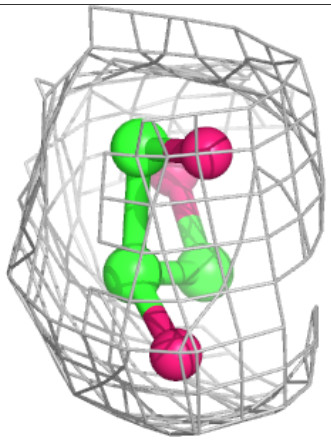


Electron density around GOL C 301:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

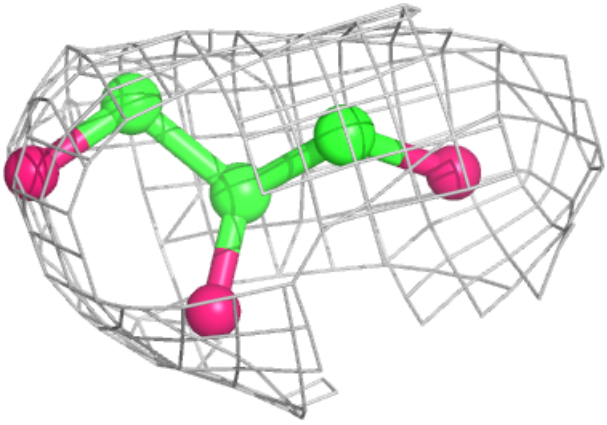


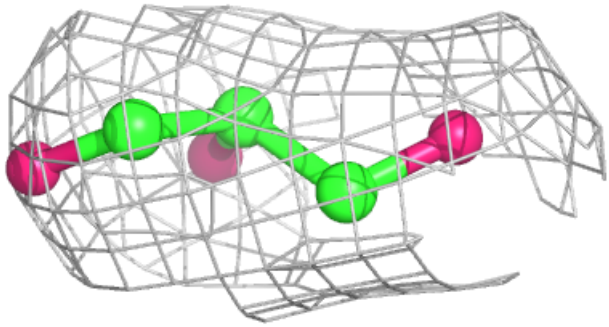


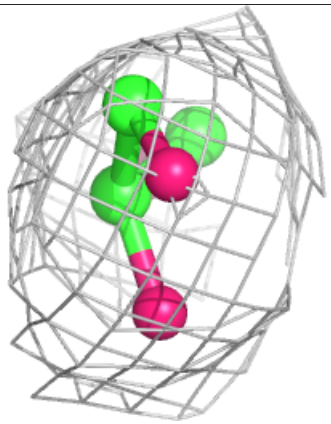


Electron density around GOL C 306:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

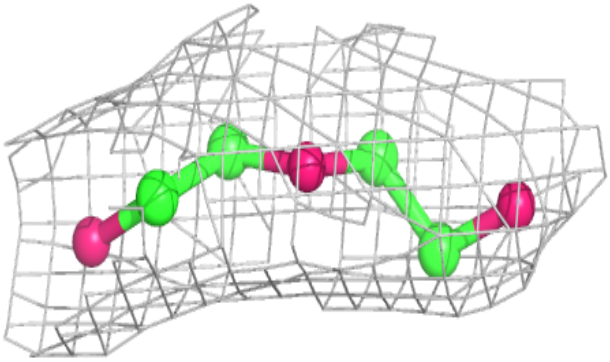


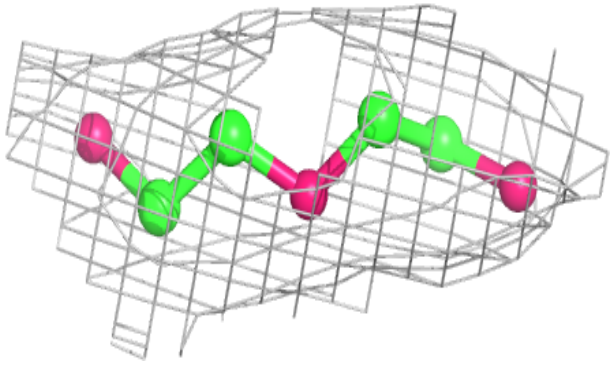


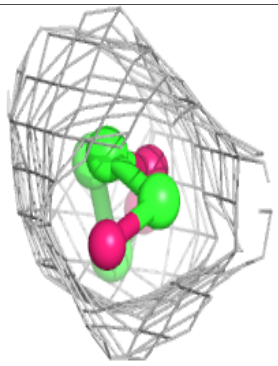


Electron density around PEG E 110:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

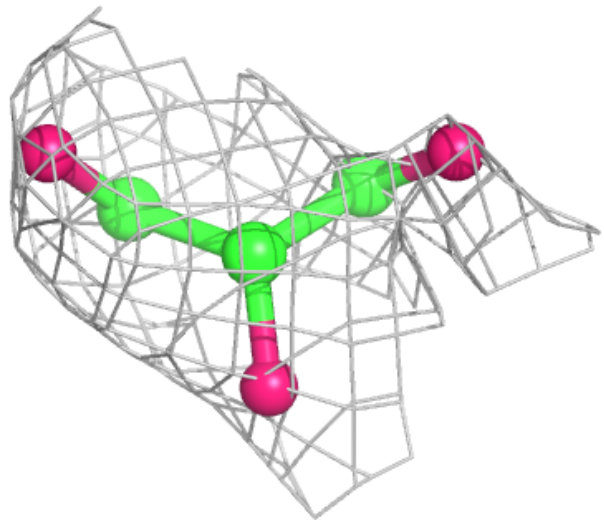


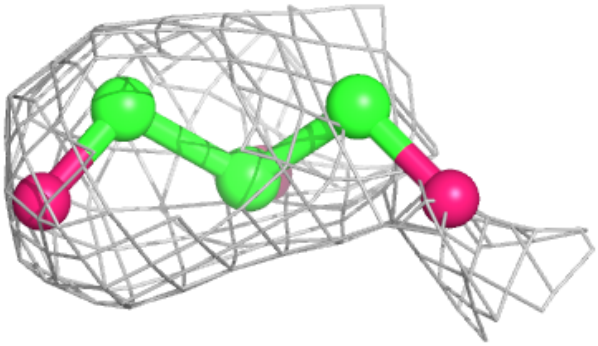


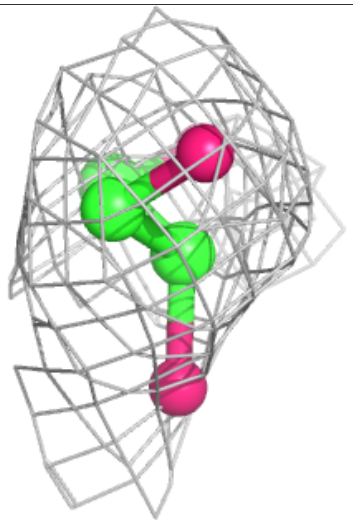


Electron density around GOL C 302:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

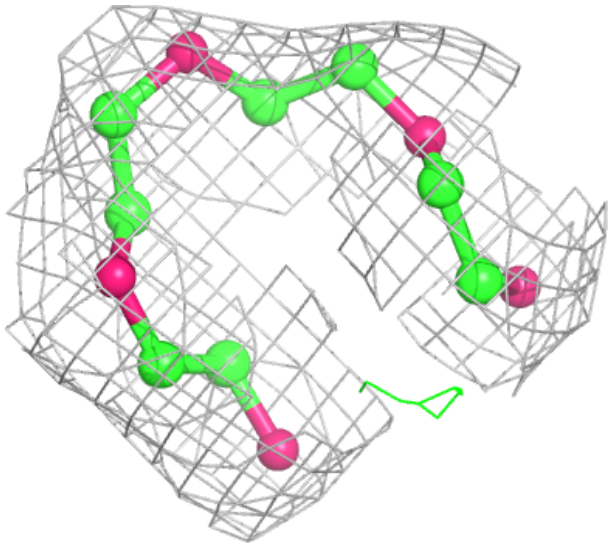


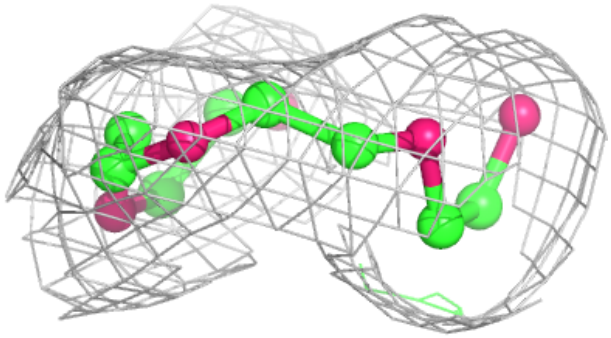


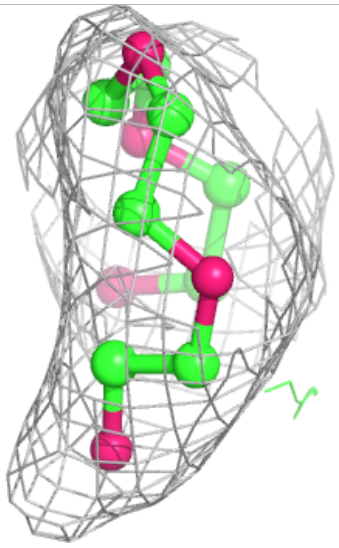


Electron density around PG4 C 324:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

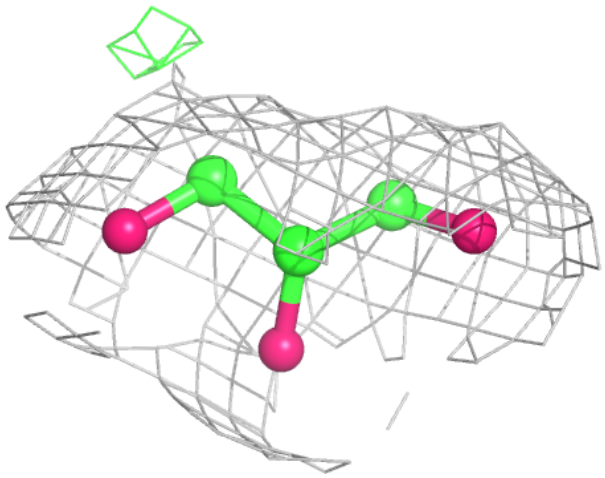


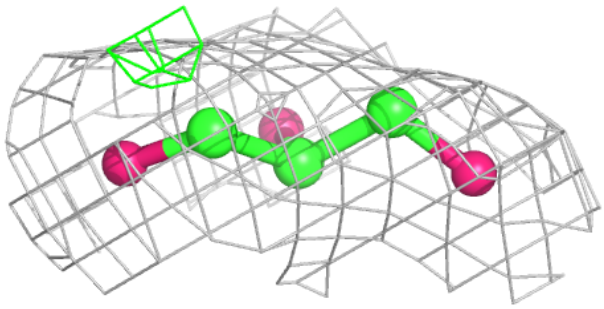


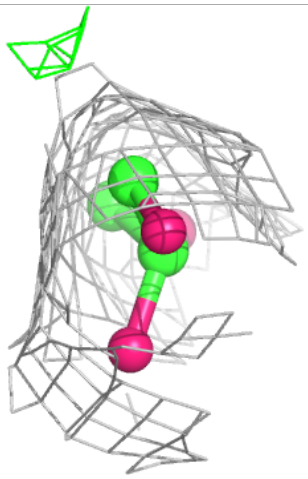


Electron density around GOL D 106:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

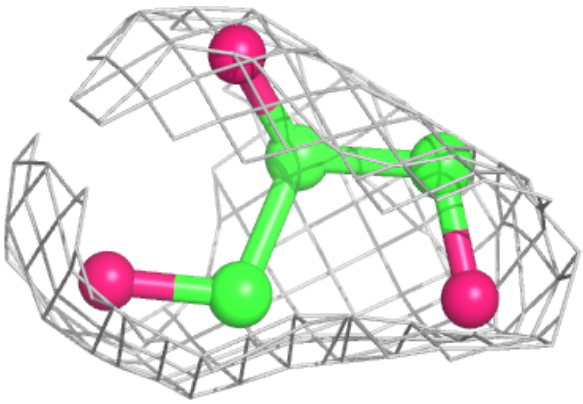


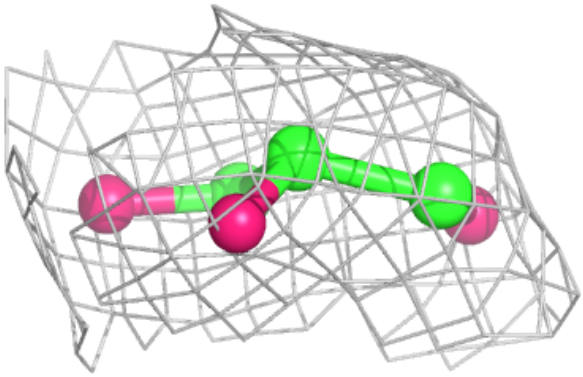


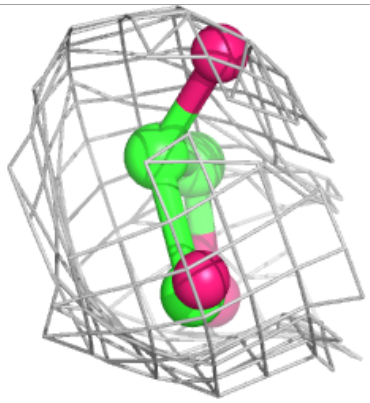


Electron density around GOL A 307:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

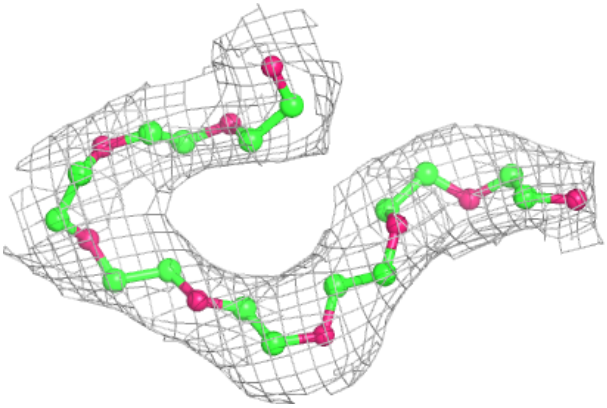


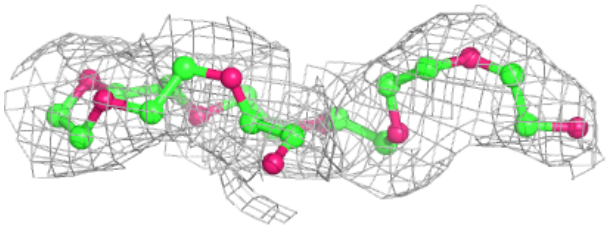


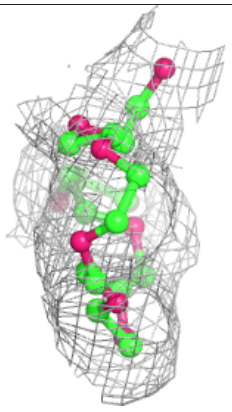


Electron density around PE8 E 113:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

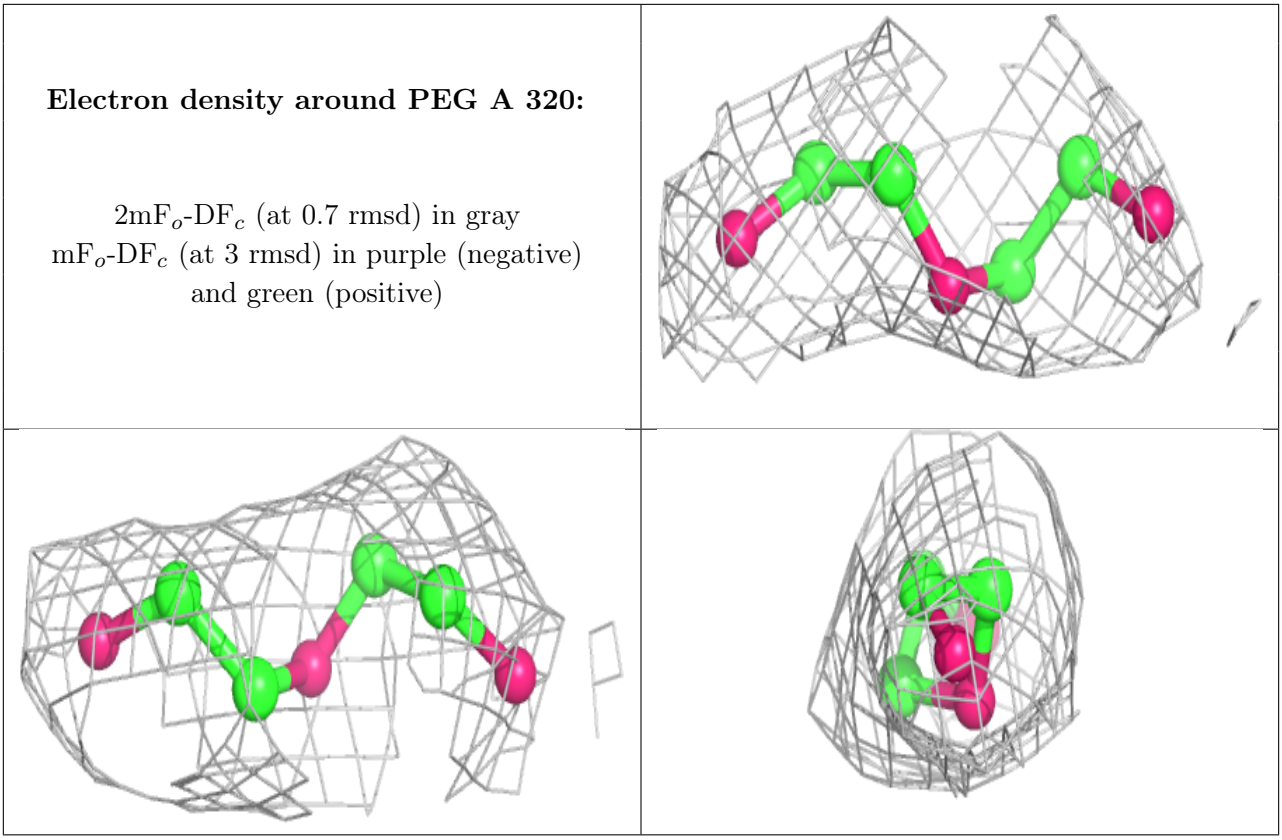






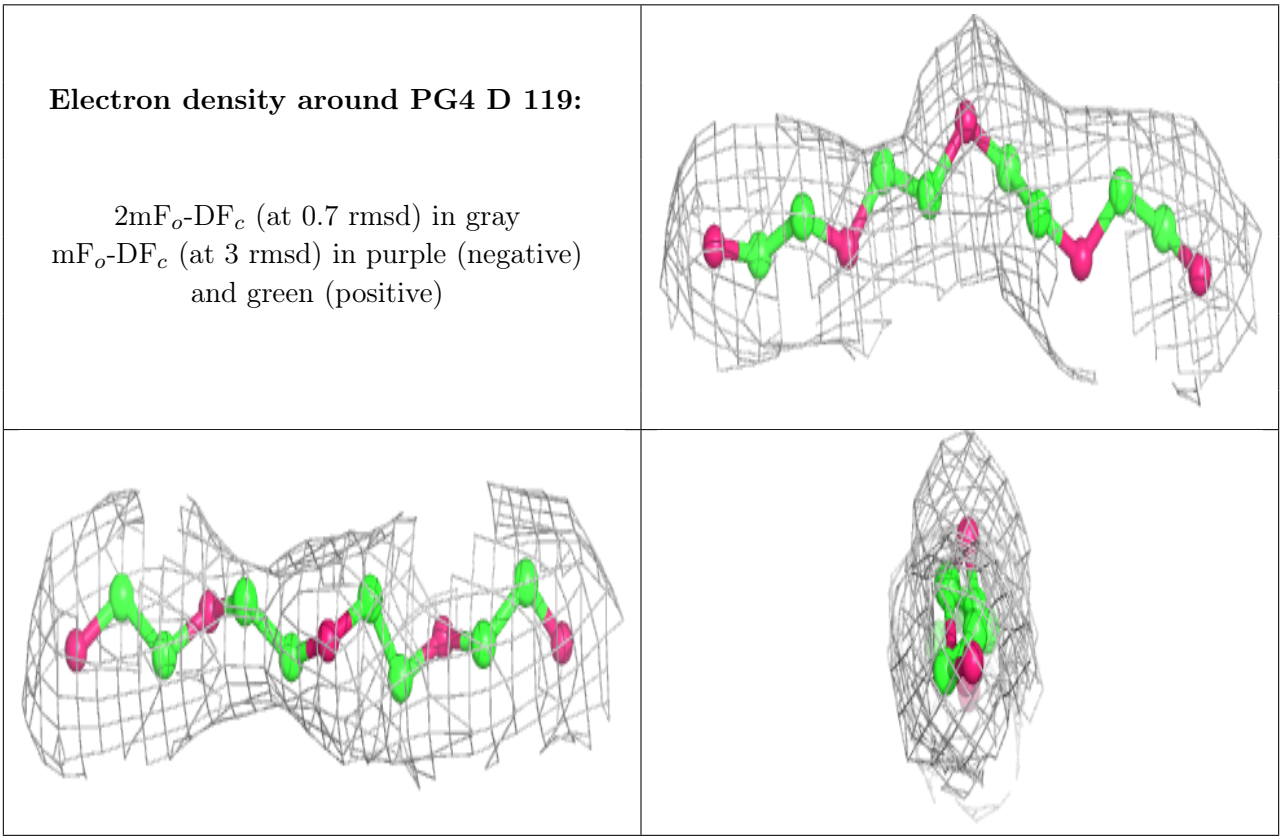
Electron density around PEG A 320:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



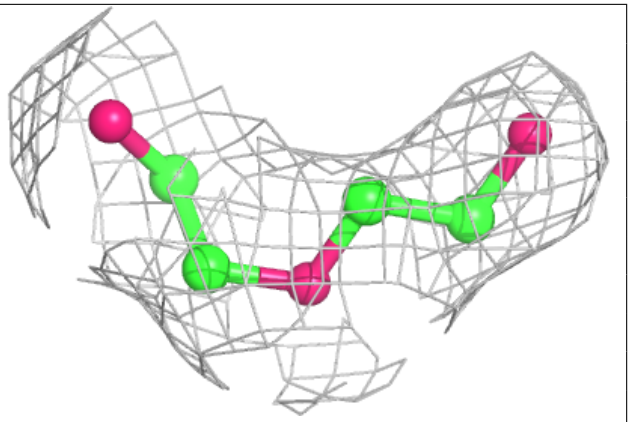
Electron density around PG4 D 119:

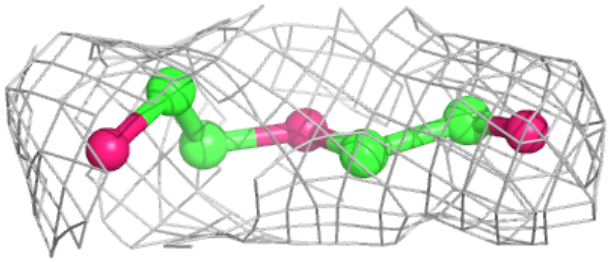
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

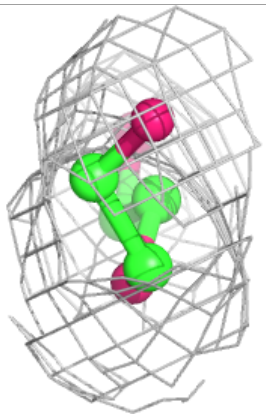


Electron density around PEG D 115:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

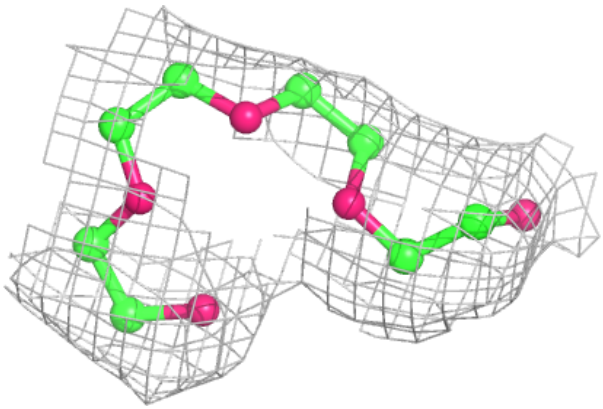


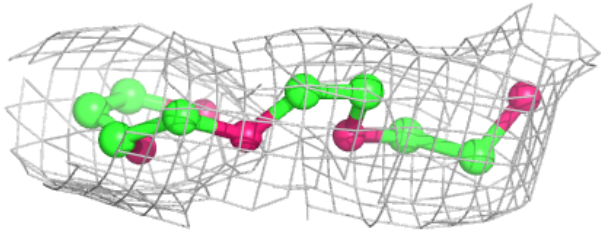


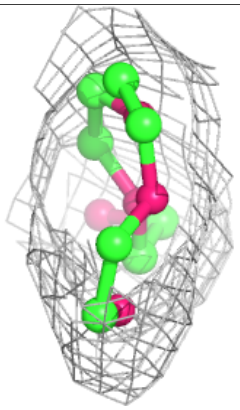


Electron density around PG4 A 328:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

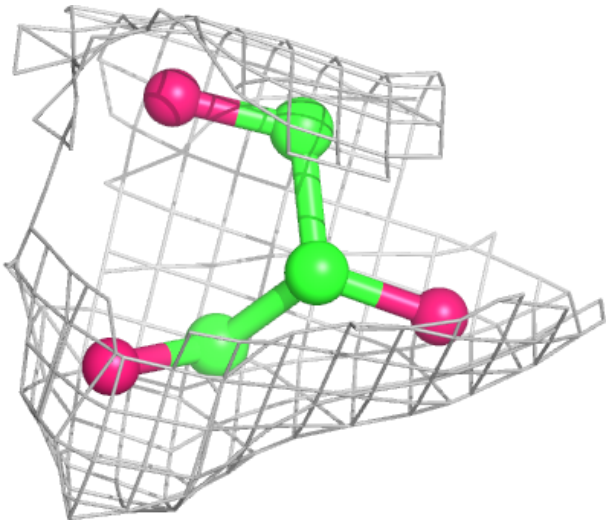


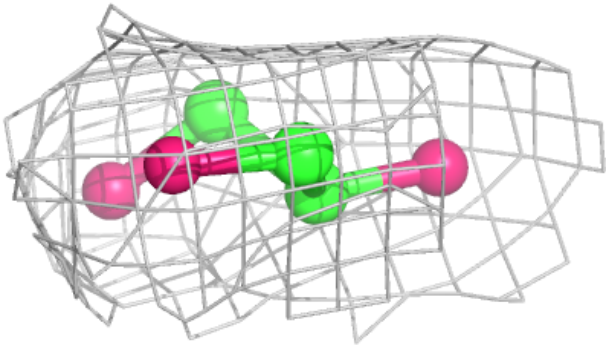


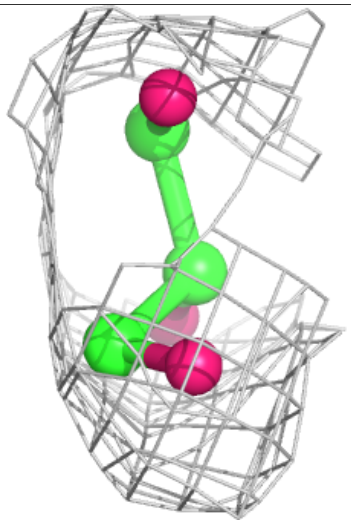


Electron density around GOL D 124:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

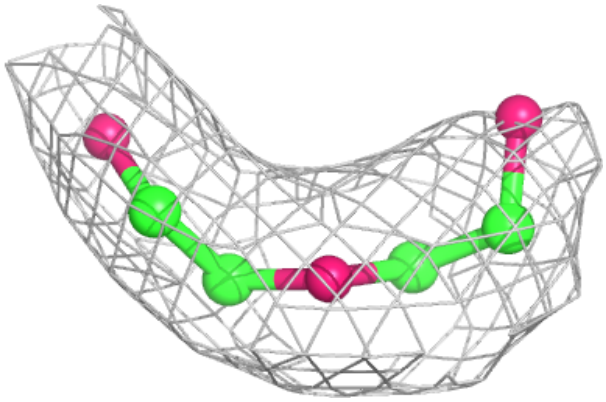


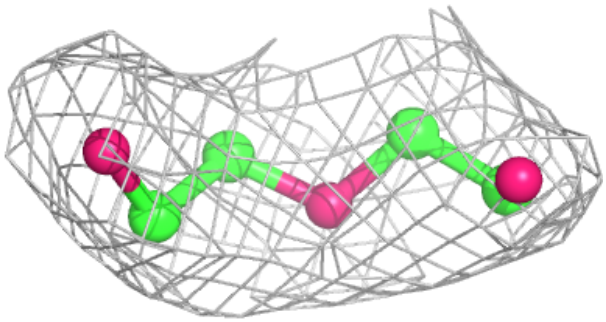


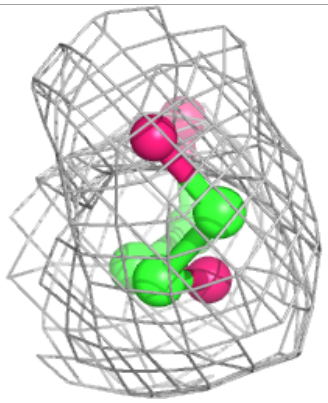


Electron density around PEG A 342:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

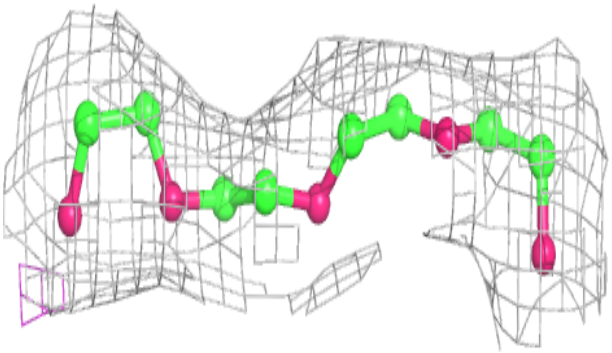


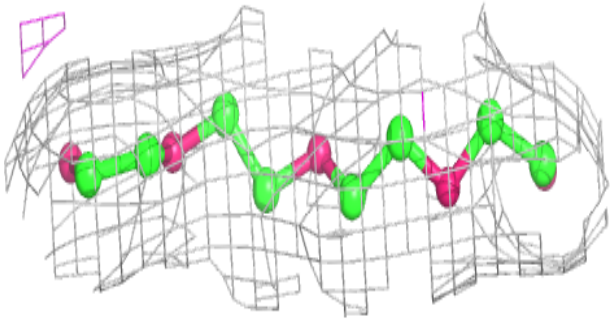


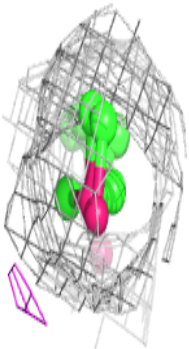


Electron density around PG4 B 104:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

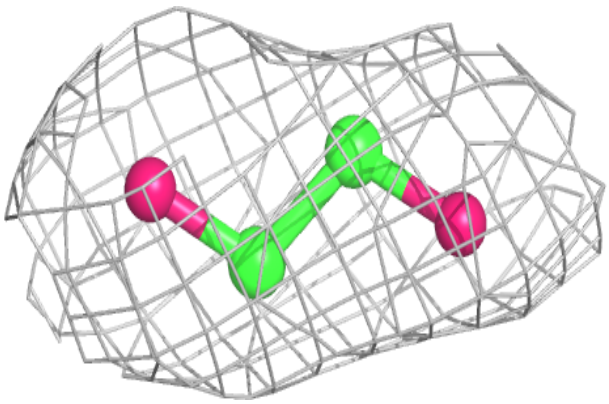


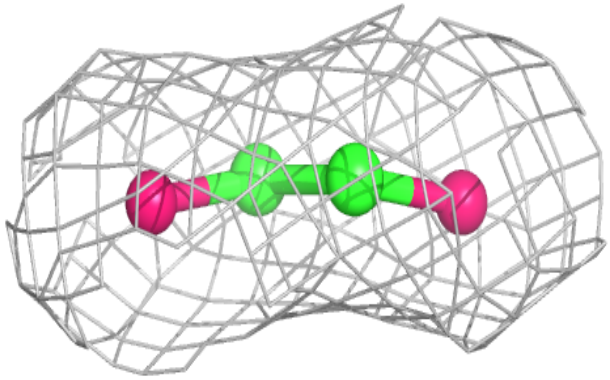


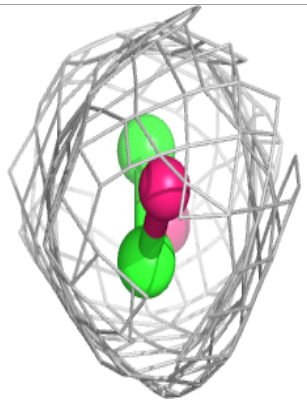


Electron density around EDO B 103:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

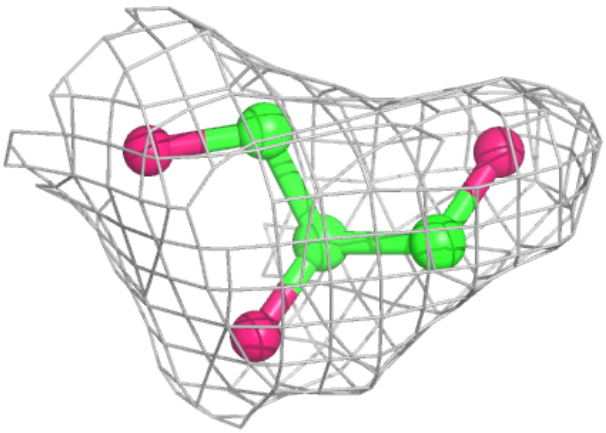


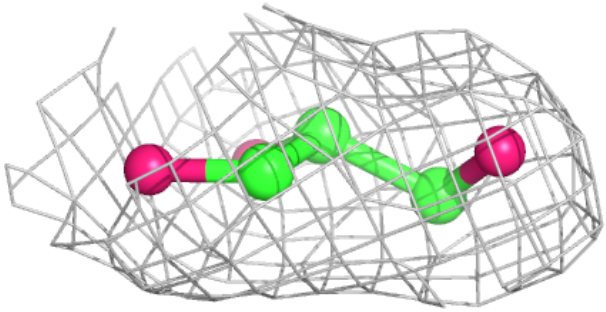


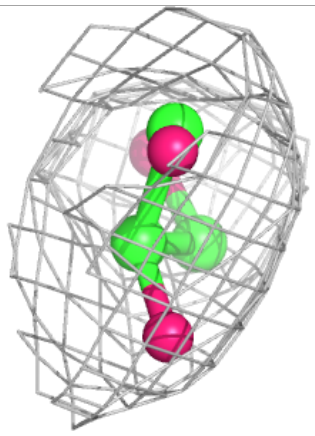


Electron density around GOL C 310:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

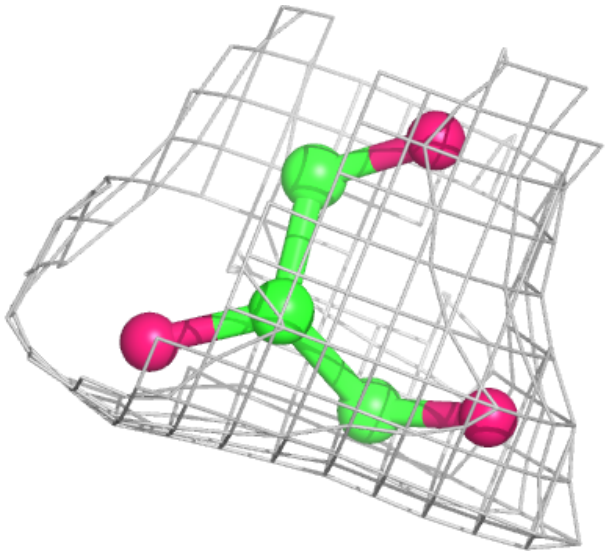


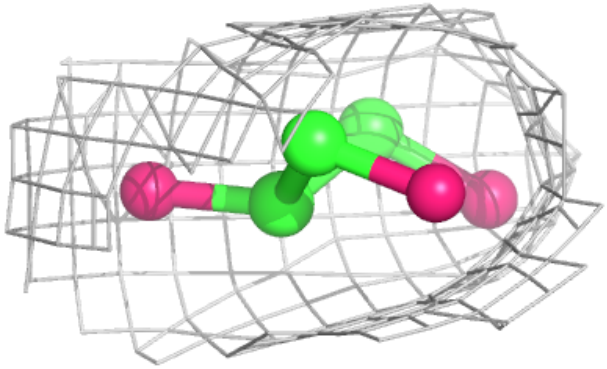


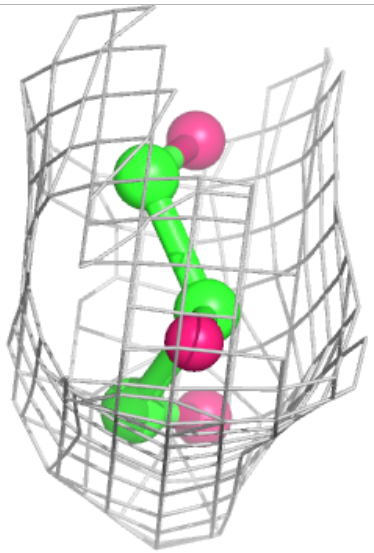


Electron density around GOL E 104:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

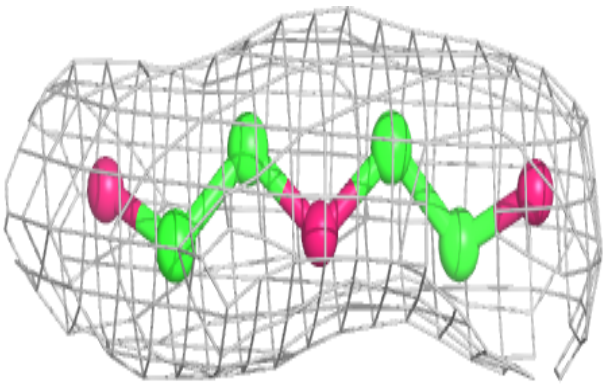


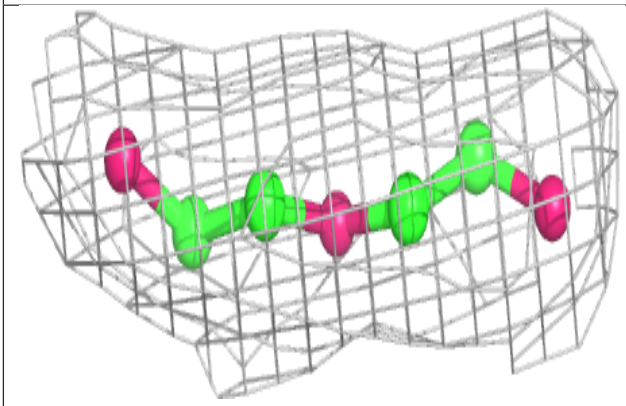


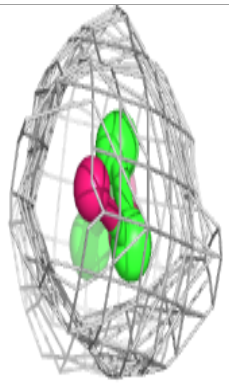


Electron density around PEG C 339:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

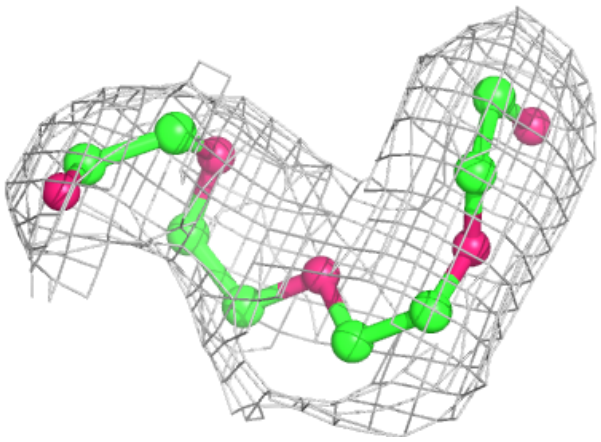


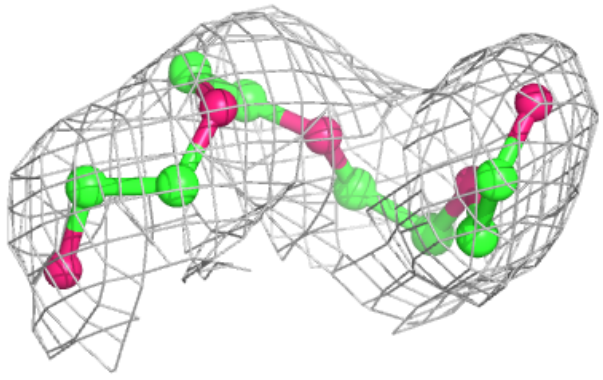


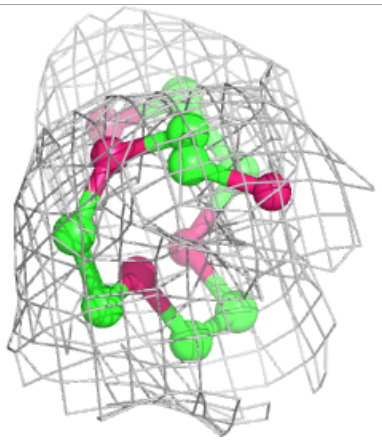


Electron density around PG4 A 334:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

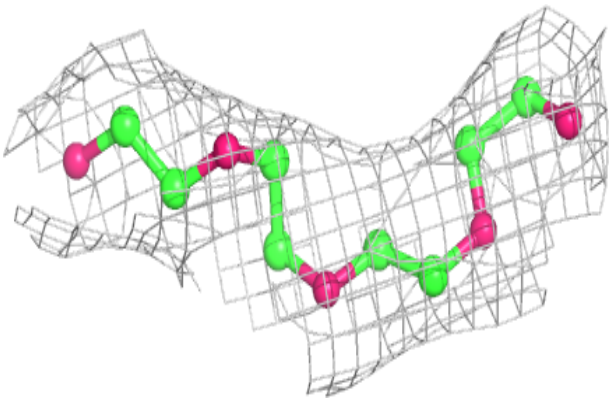


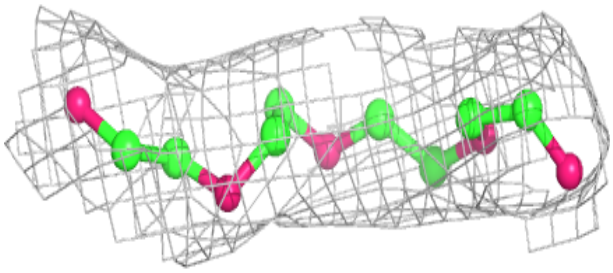


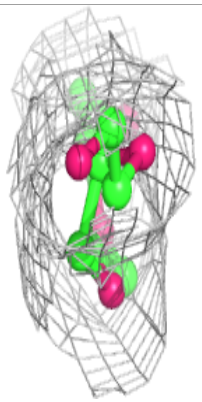


Electron density around PG4 A 337:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

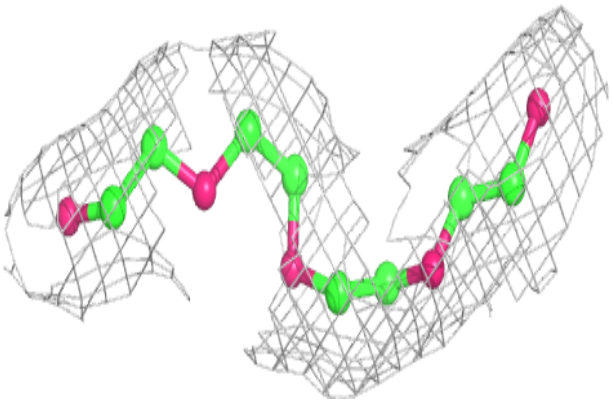


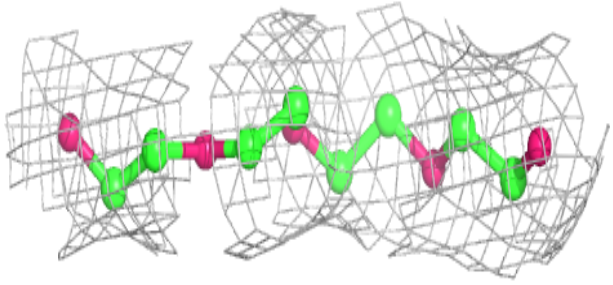


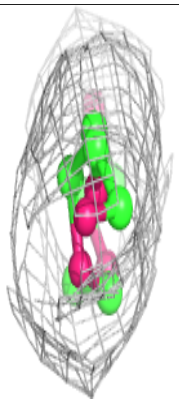


Electron density around PG4 A 338:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

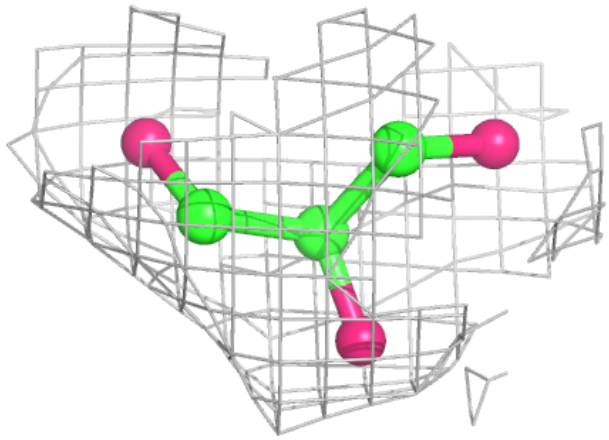


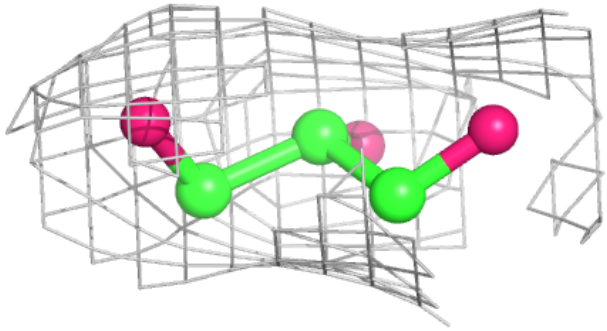


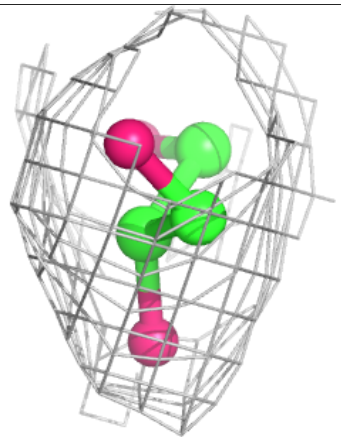


Electron density around GOL B 110:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

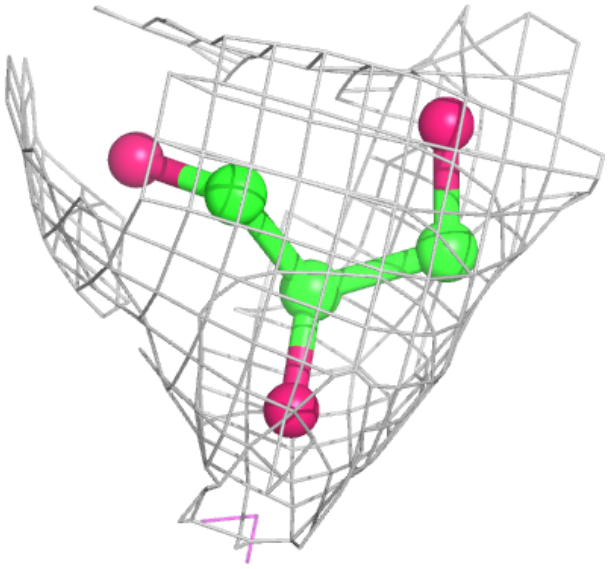


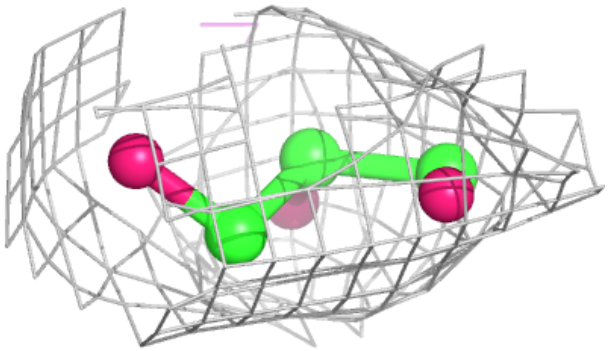


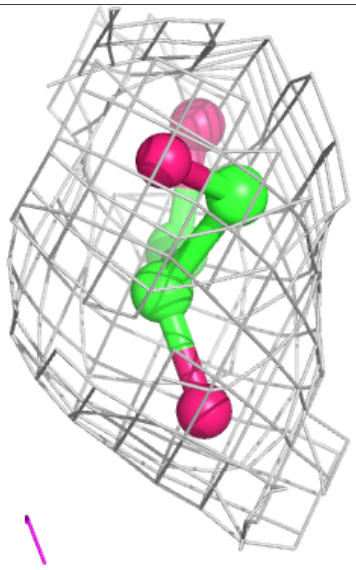


Electron density around GOL B 135:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

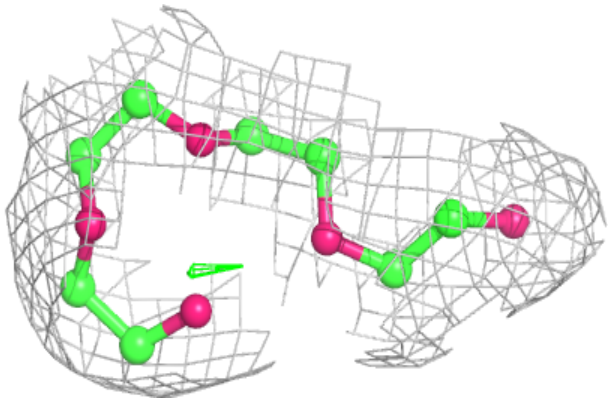


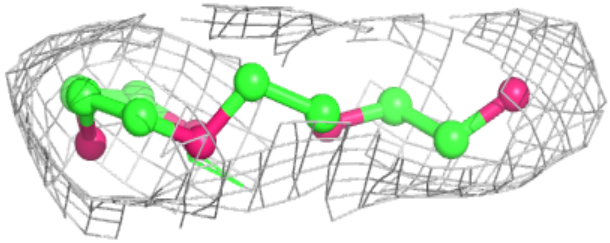


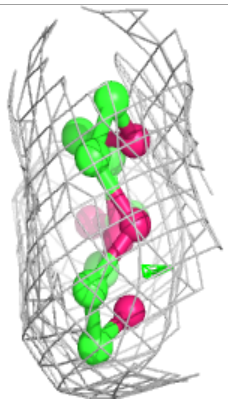


Electron density around PG4 C 325:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

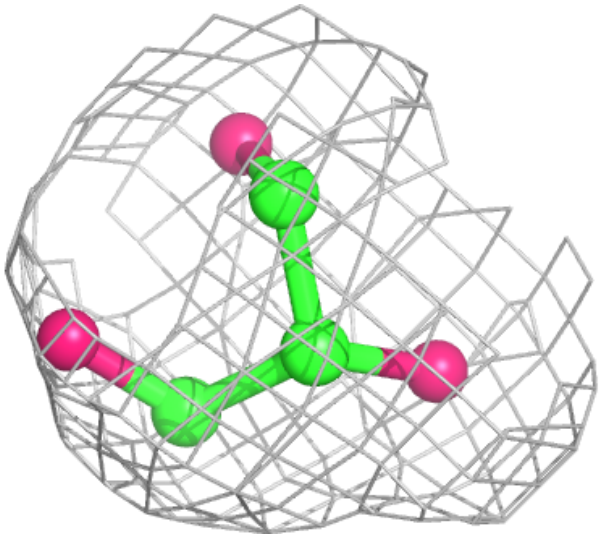


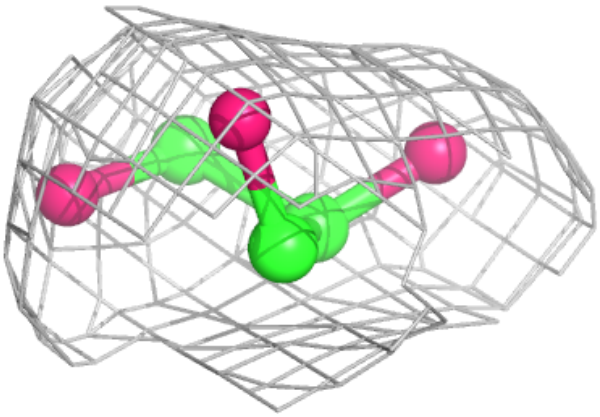


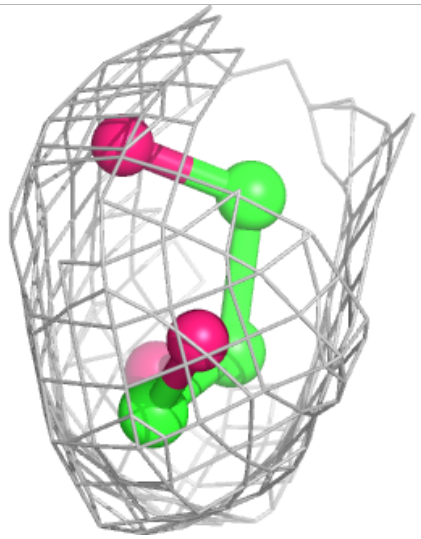


Electron density around GOL B 102:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

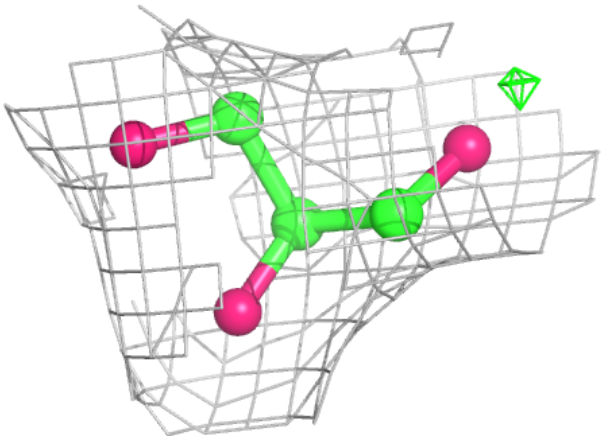


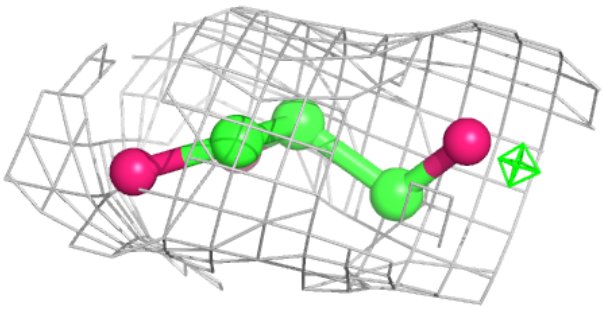


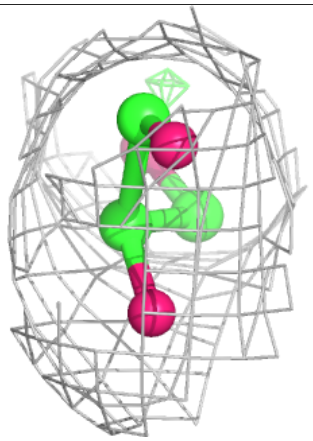


Electron density around GOL B 107:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

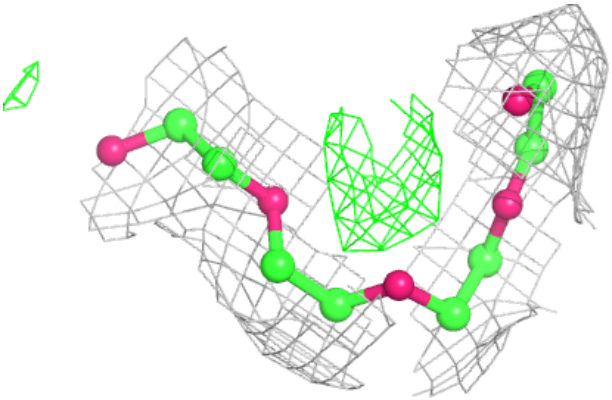


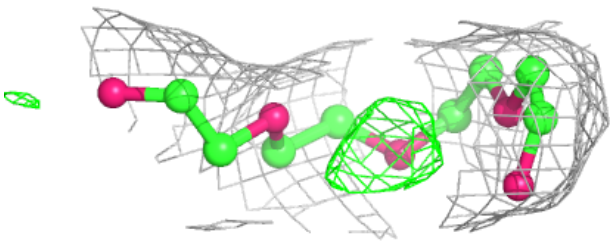


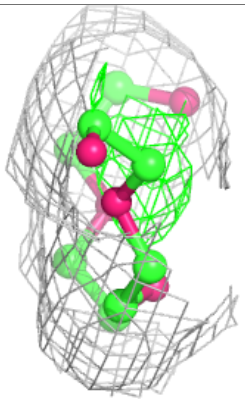


Electron density around PG4 D 101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

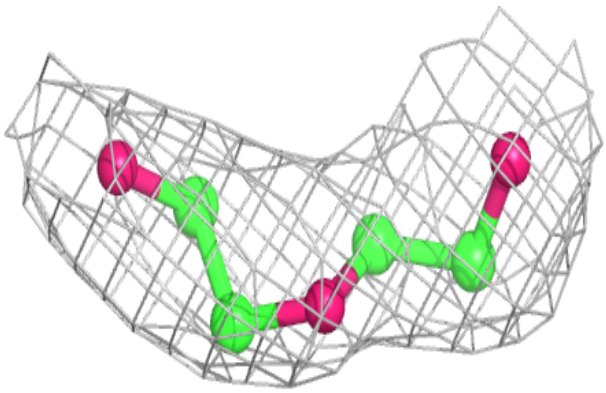


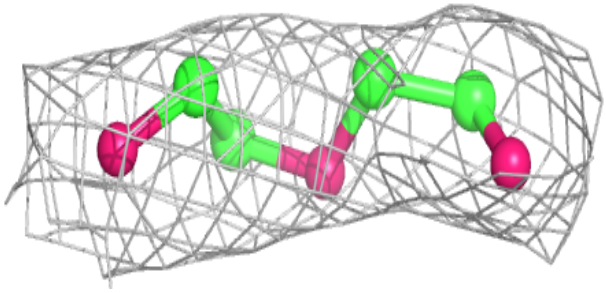


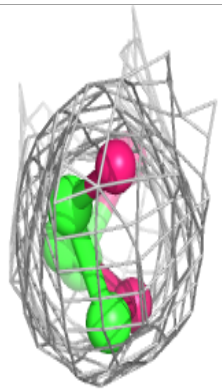


Electron density around PEG E 111:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

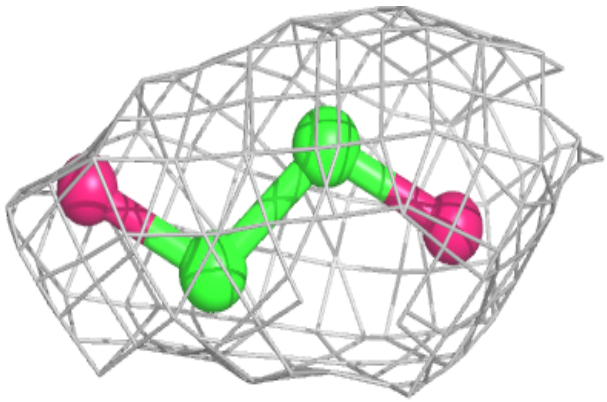


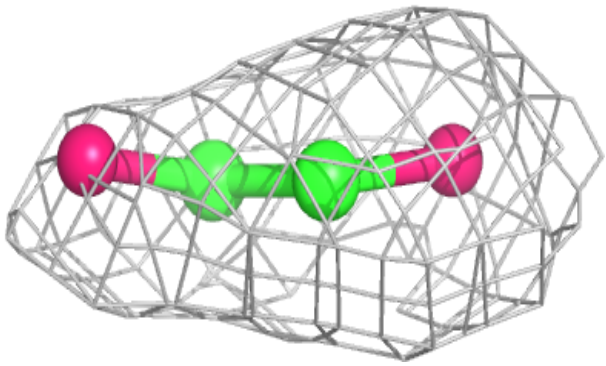


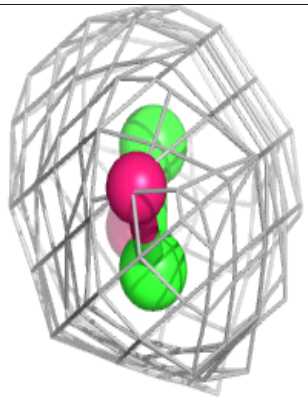


Electron density around EDO B 124:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

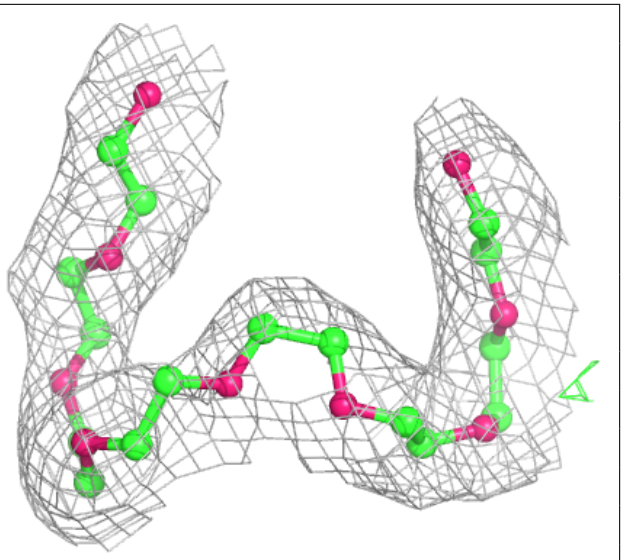


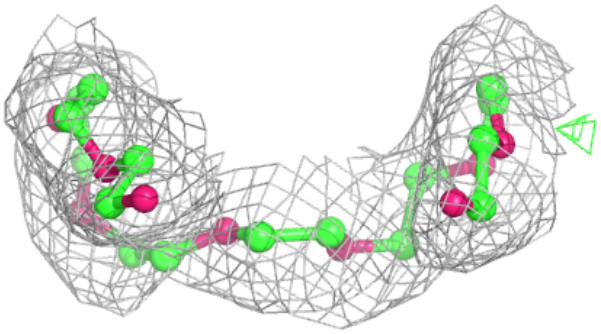


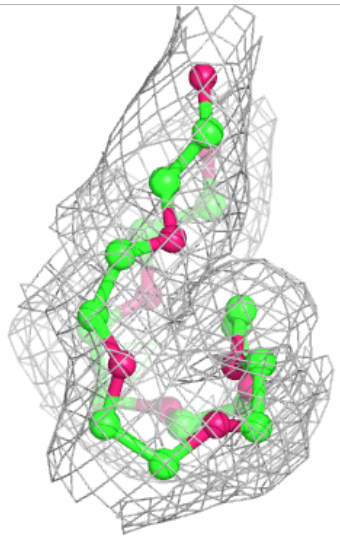


Electron density around PE8 A 323:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

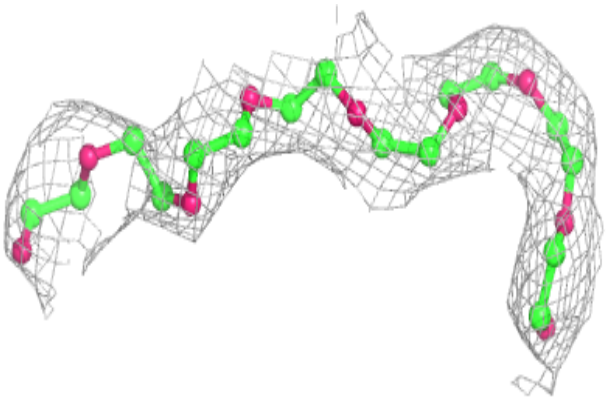


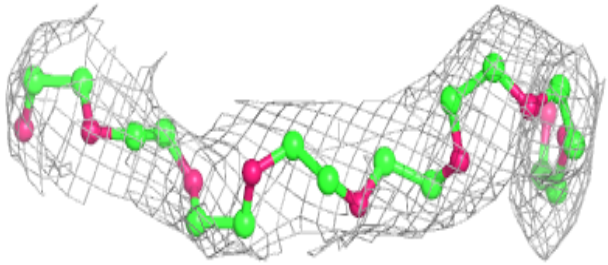


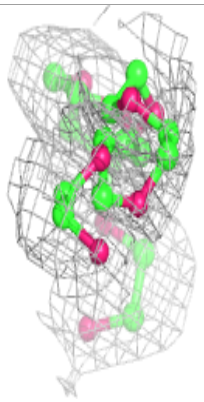


Electron density around PE8 B 105:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

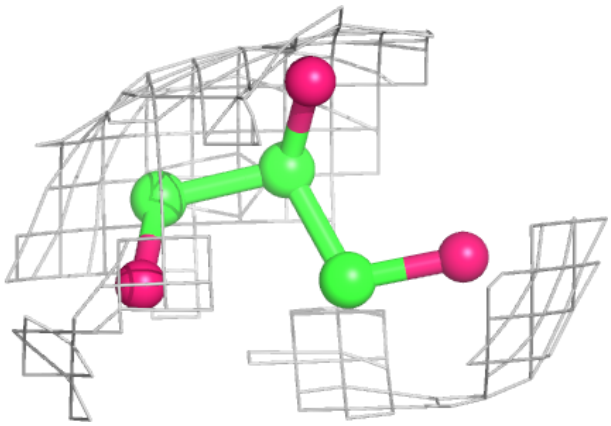


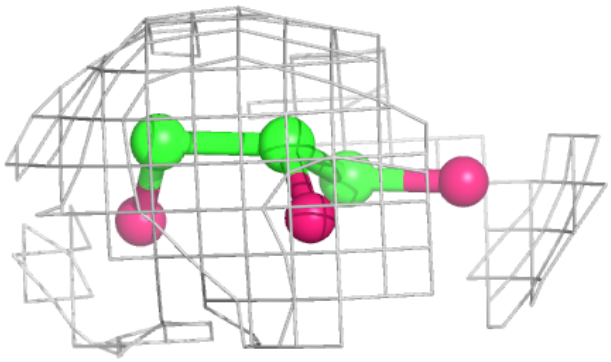


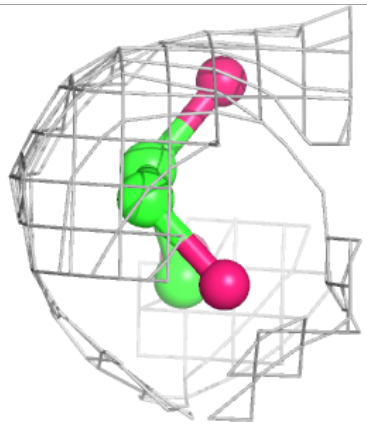


Electron density around GOL B 109:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

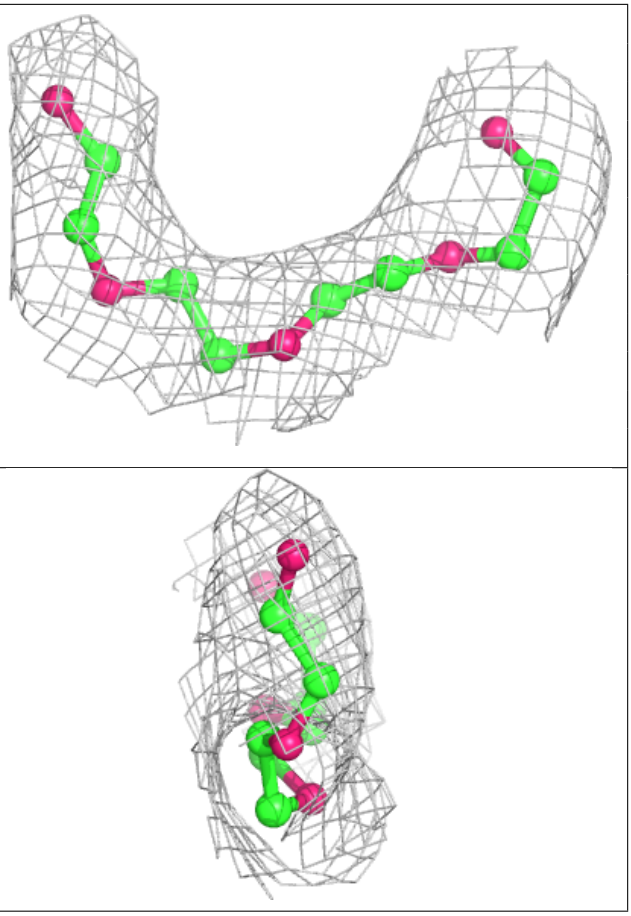


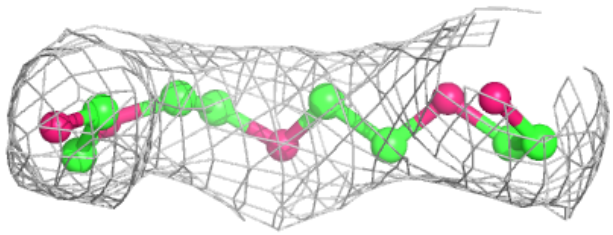




Electron density around PG4 D 127:

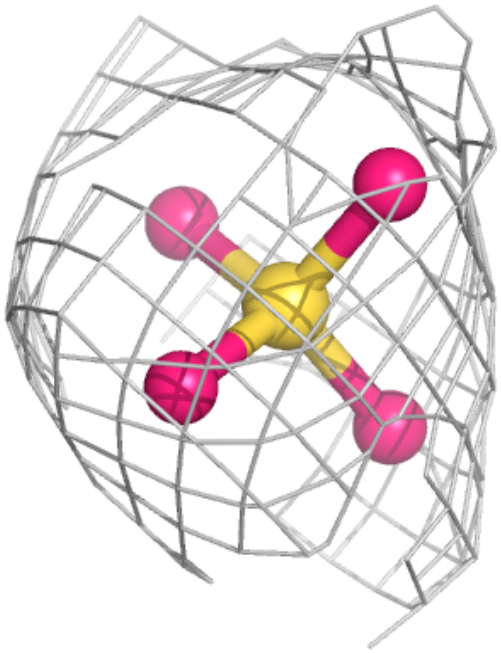
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

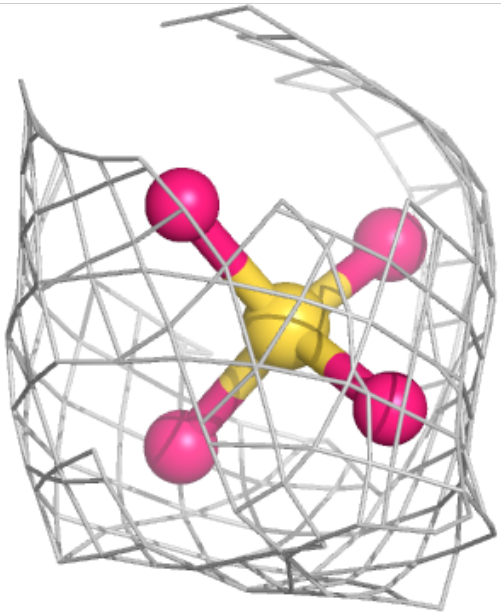


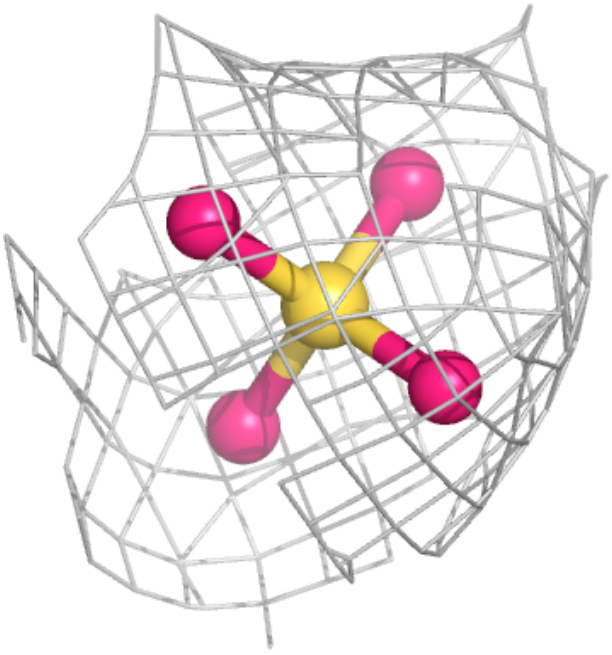


Electron density around SO4 D 113:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

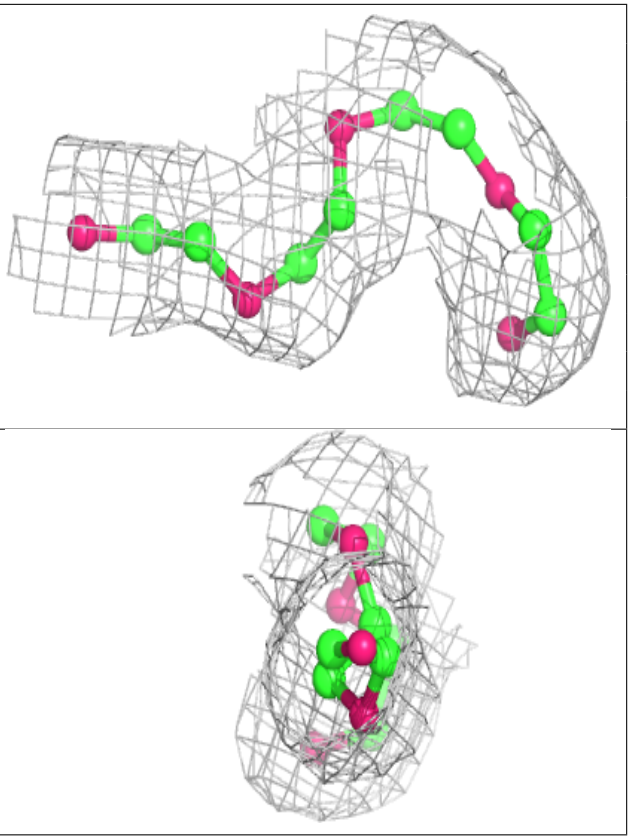


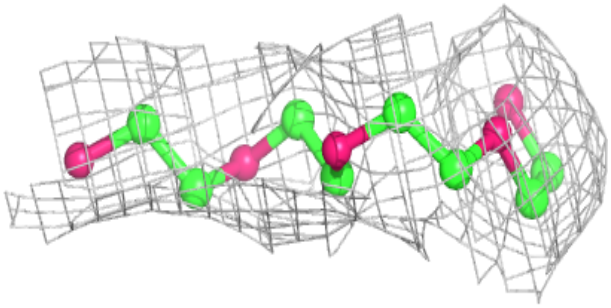




Electron density around PG4 B 129:

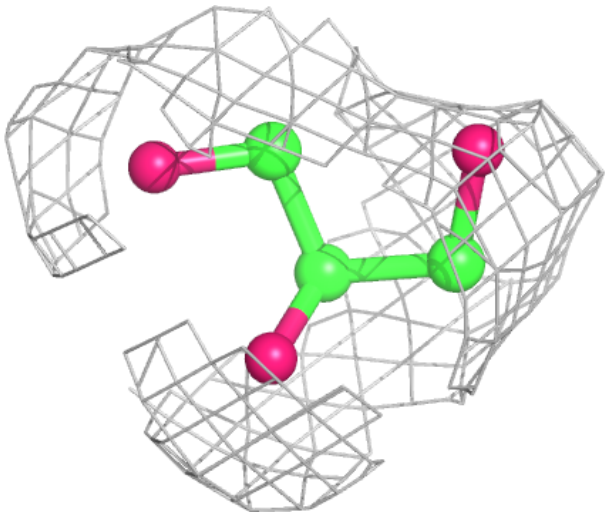
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

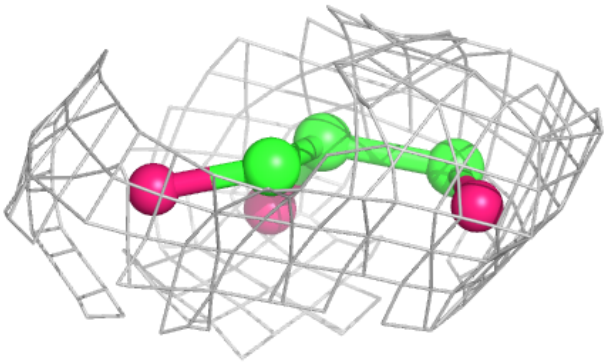


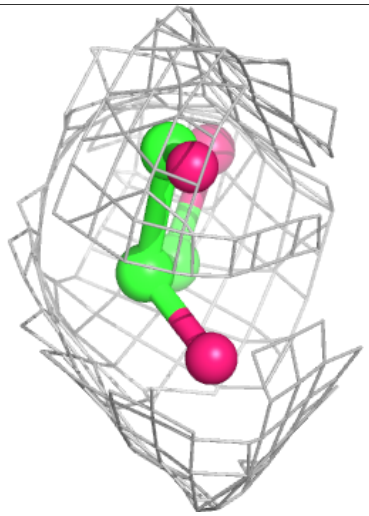


Electron density around GOL A 308:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

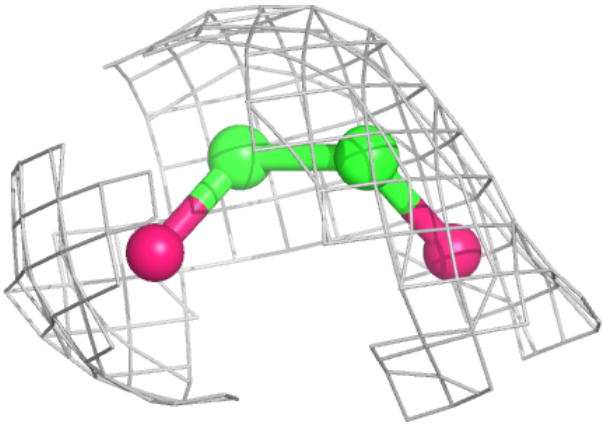


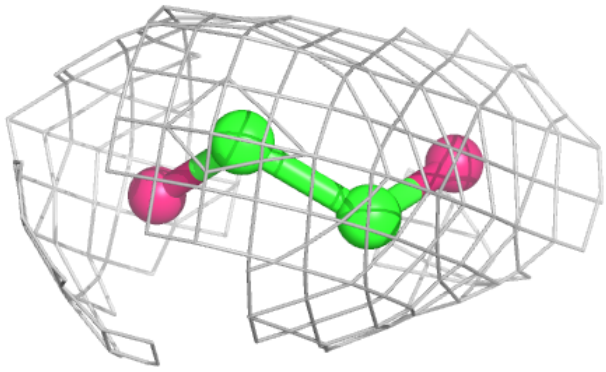


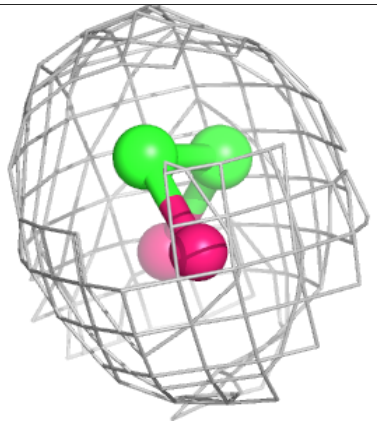


Electron density around EDO C 323:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

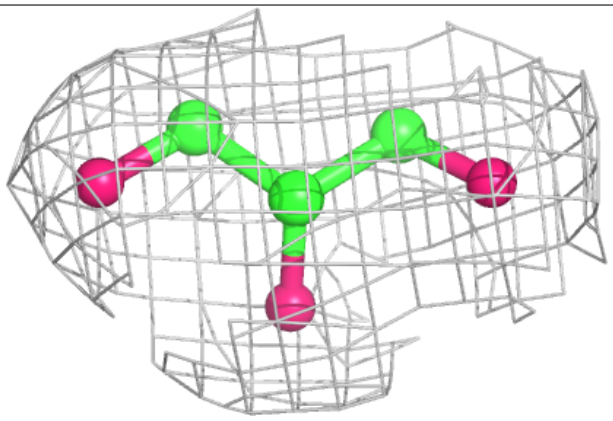


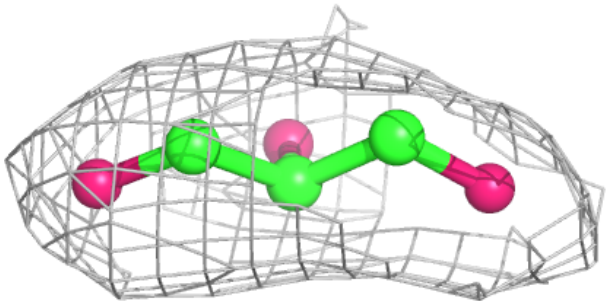


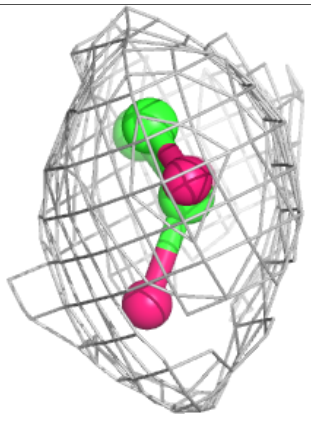


Electron density around GOL A 309:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

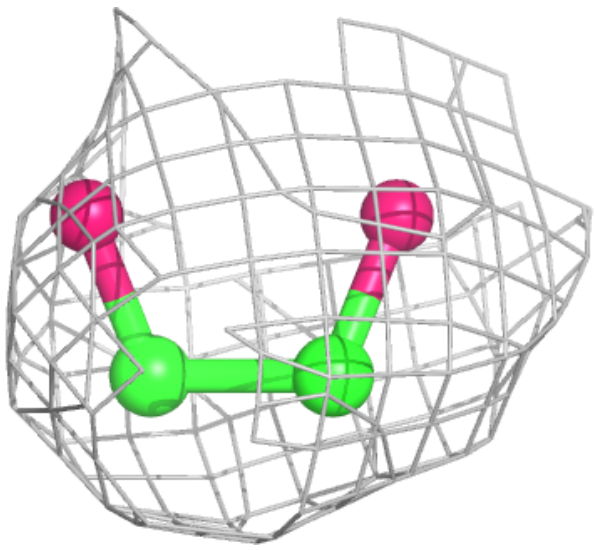


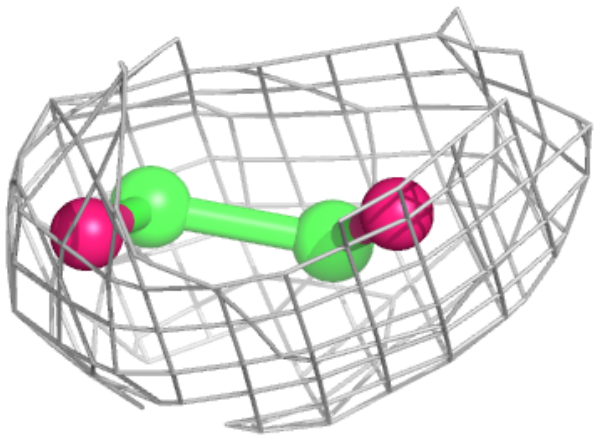


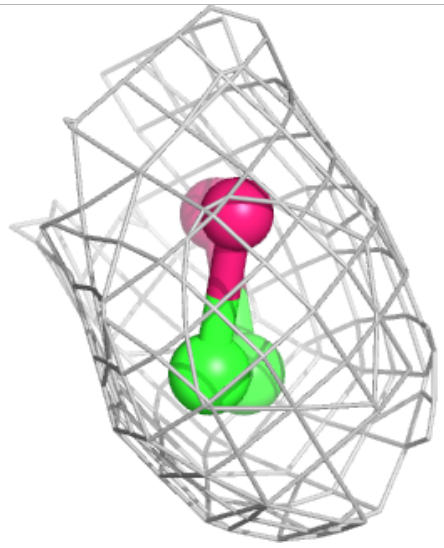


Electron density around EDO C 329:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

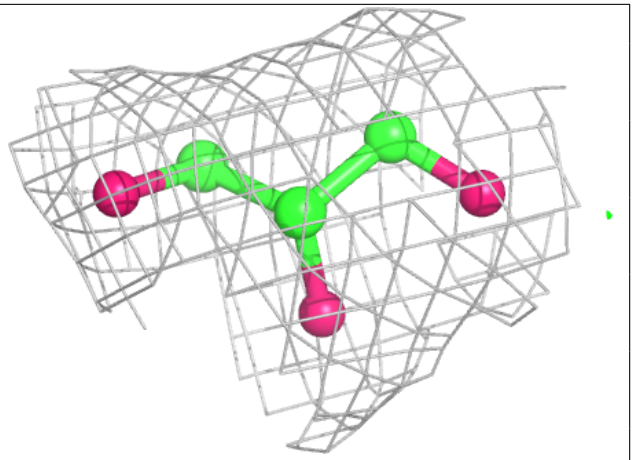


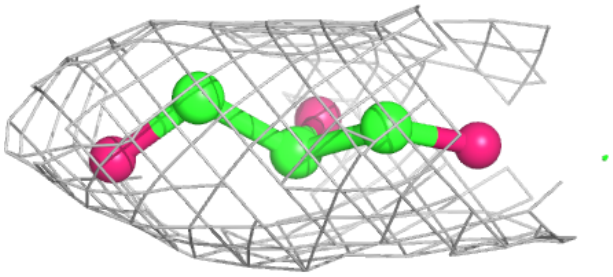


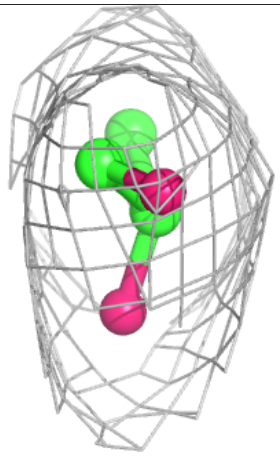


Electron density around GOL B 111:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

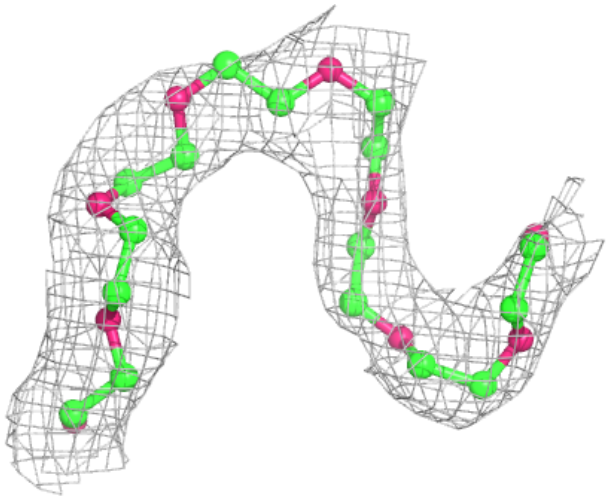


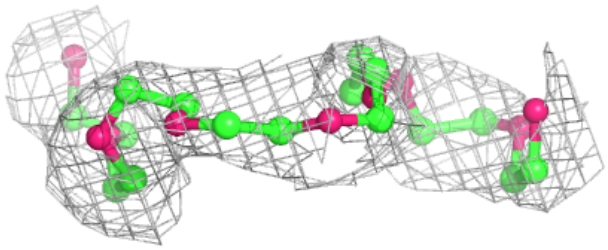




Electron density around PE8 B 131:

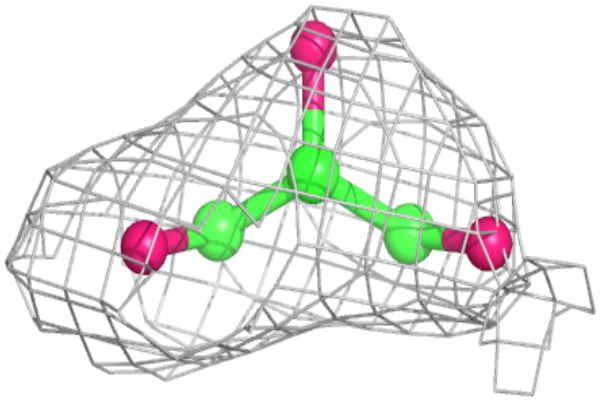
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

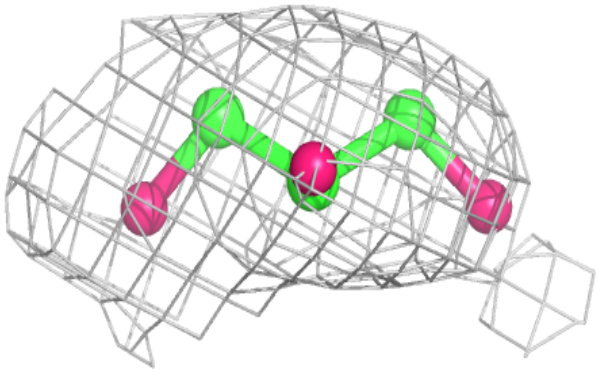


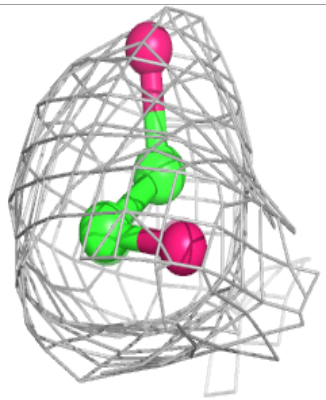


Electron density around GOL D 109:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

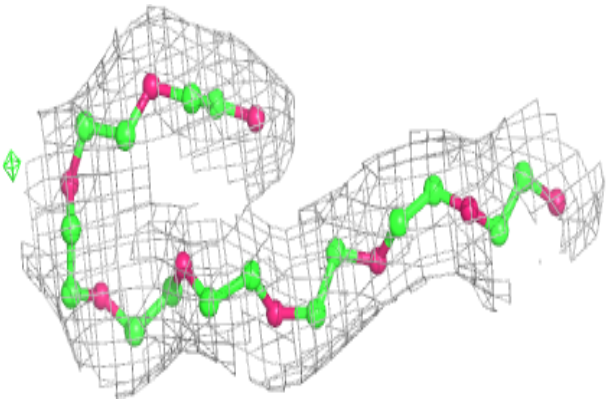


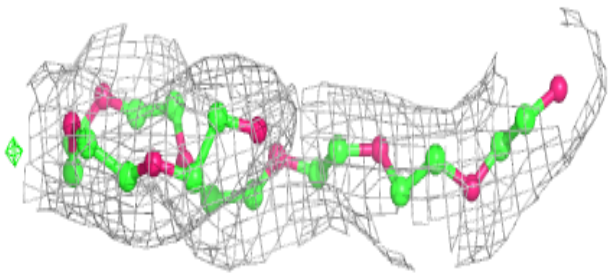


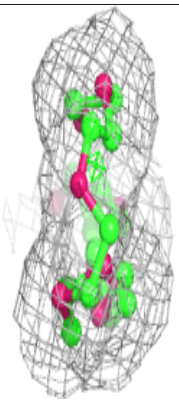


Electron density around PE8 C 322:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

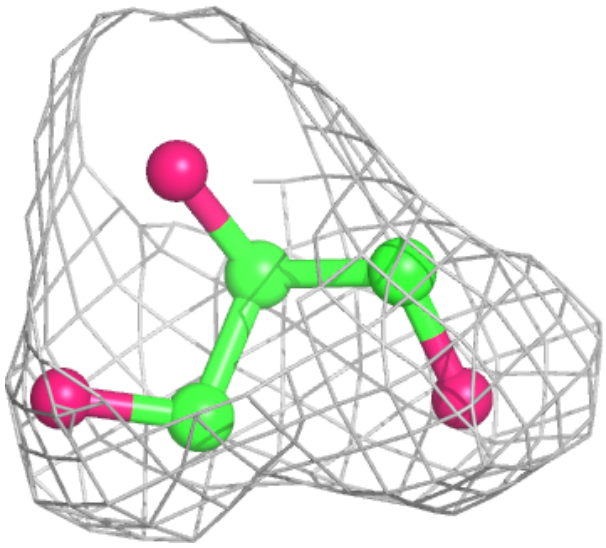


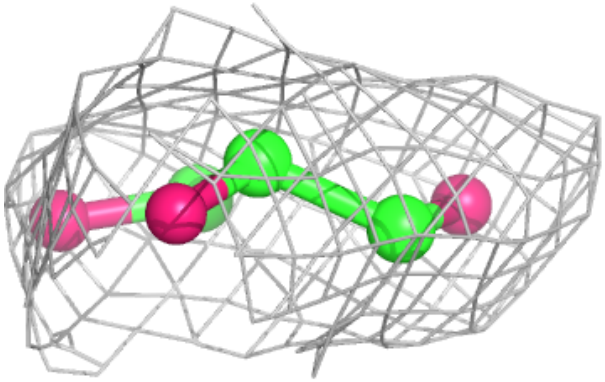


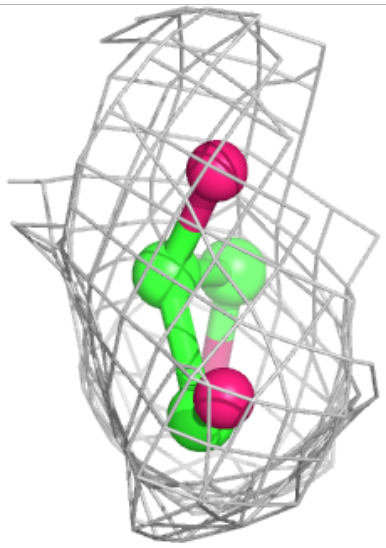


Electron density around GOL C 311:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

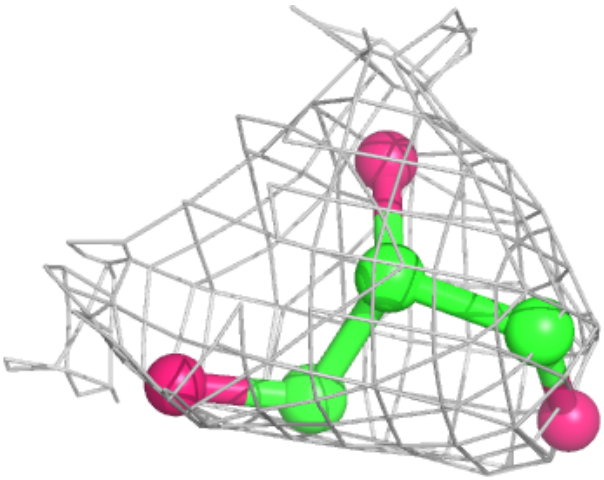


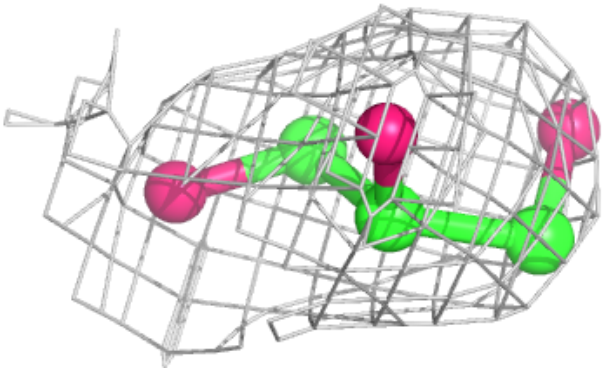


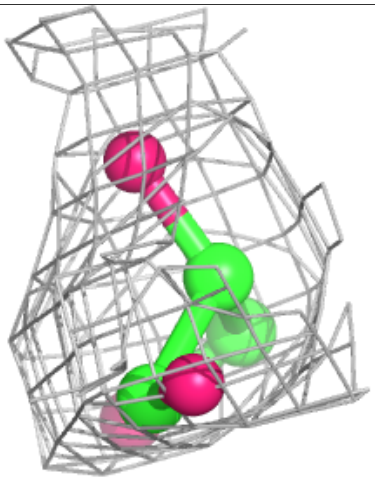


Electron density around GOL B 138:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

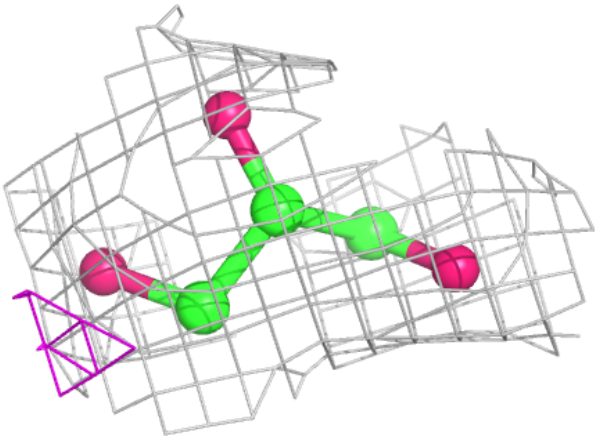


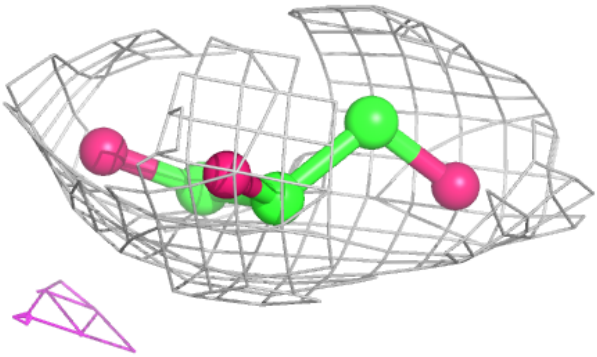


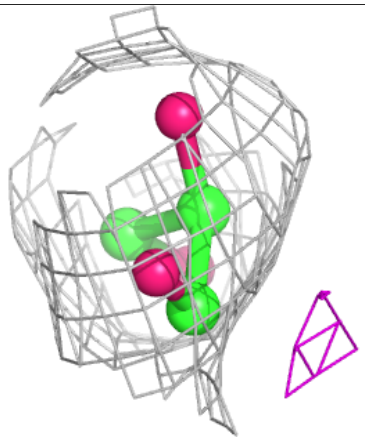


Electron density around GOL B 112:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

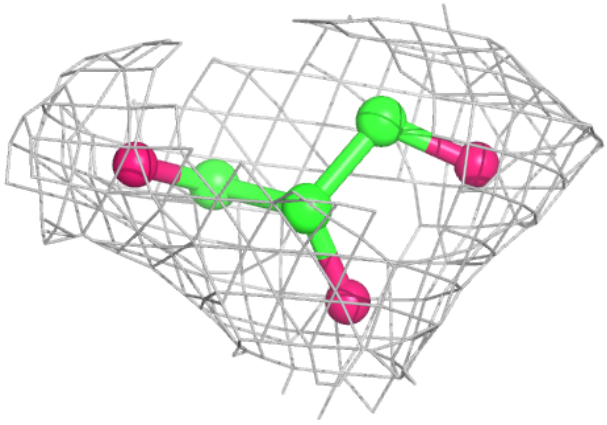


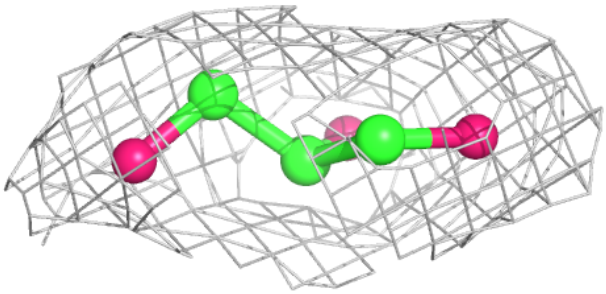


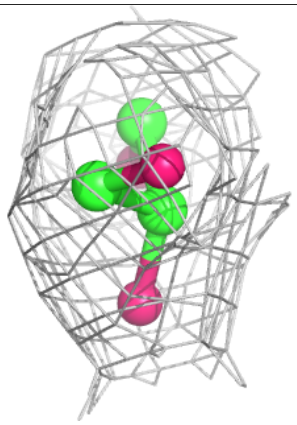


Electron density around GOL A 345:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

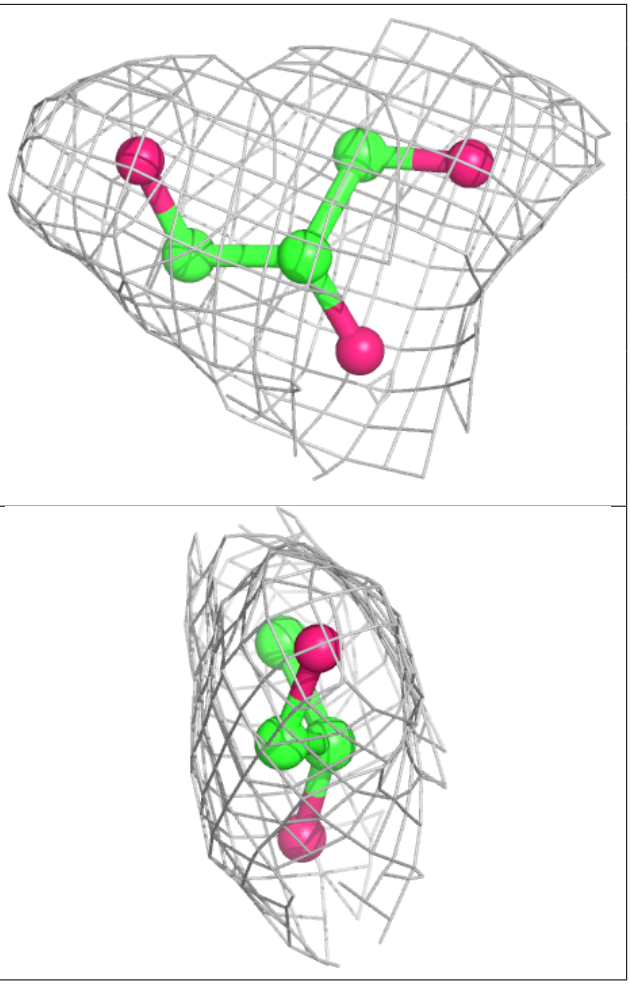


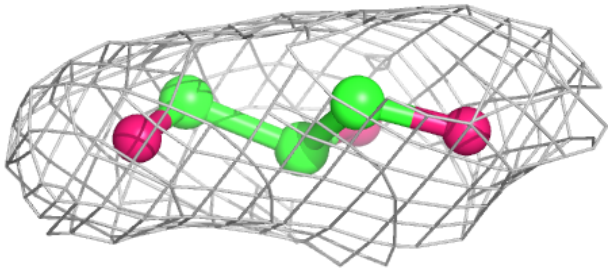




Electron density around GOL A 311:

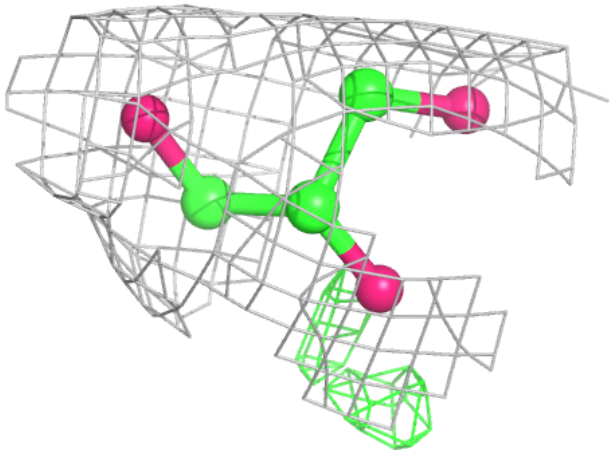
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

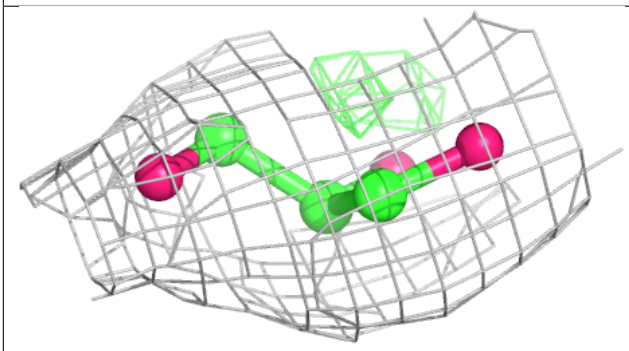


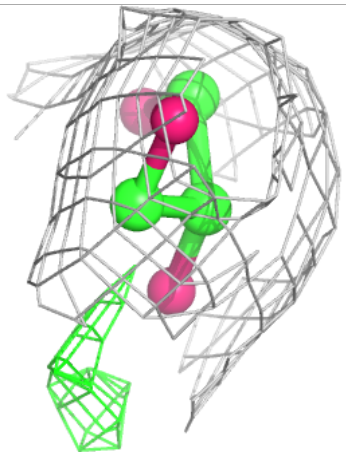


Electron density around GOL D 110:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

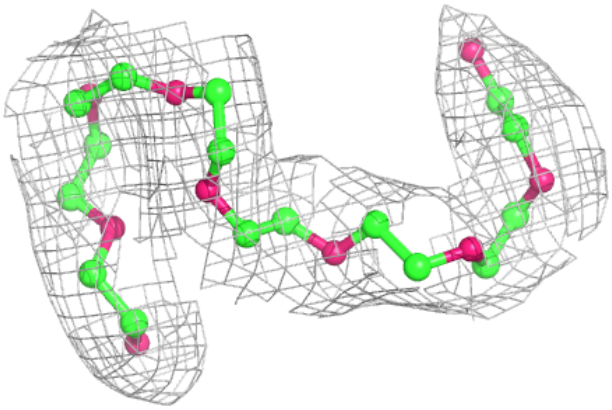


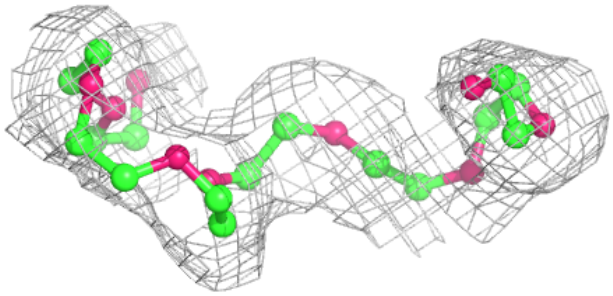




Electron density around PE8 A 322:

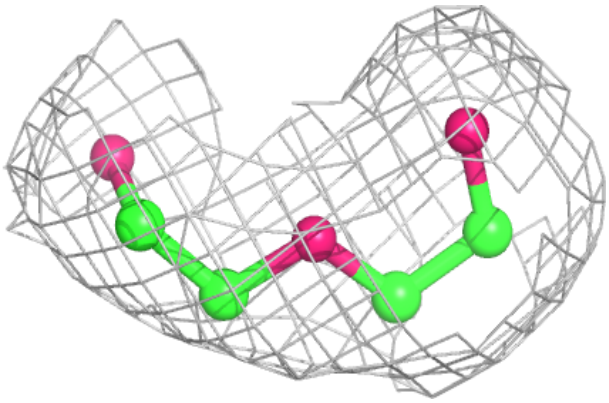
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

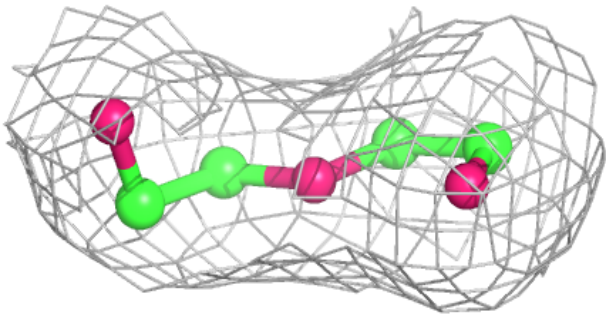


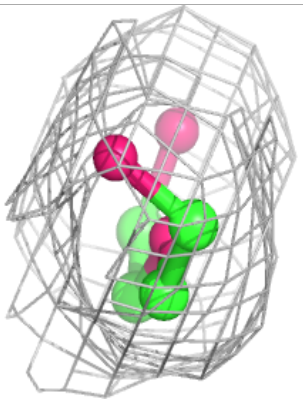


Electron density around PEG B 120:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

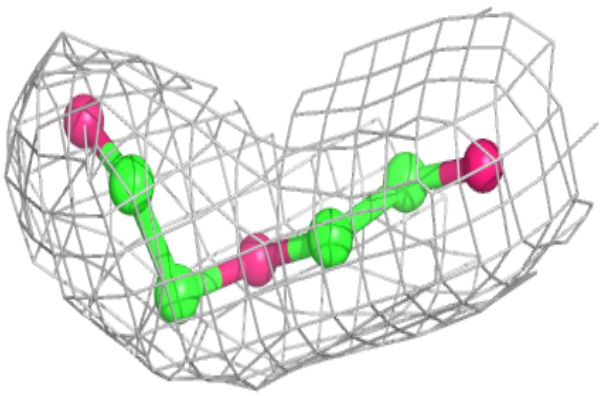


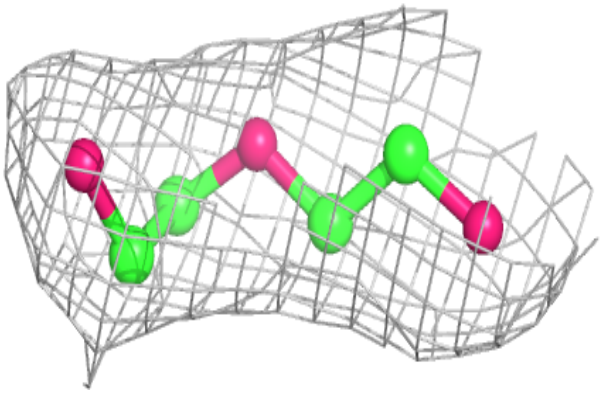


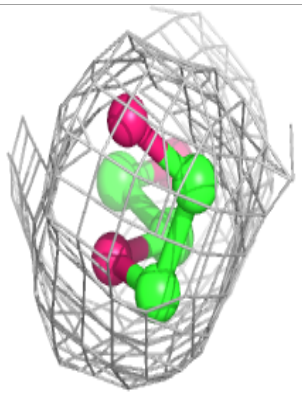


Electron density around PEG B 139:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

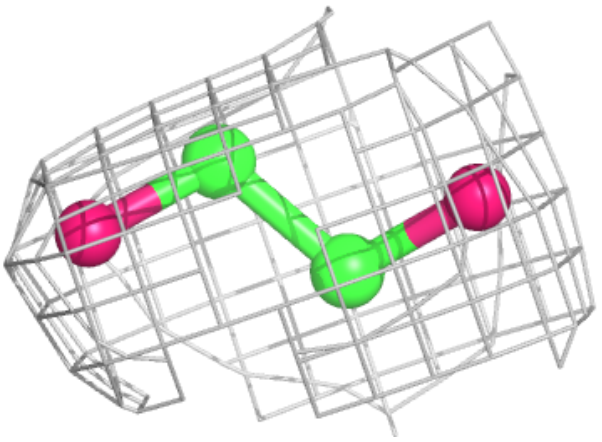


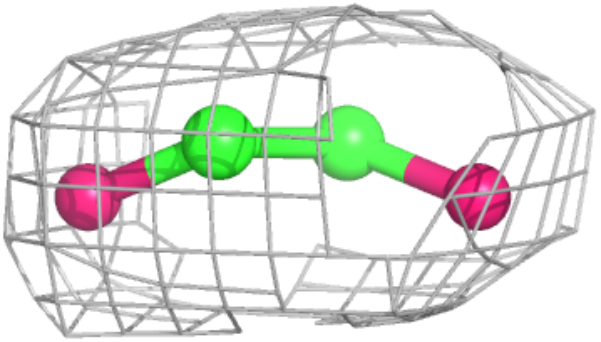


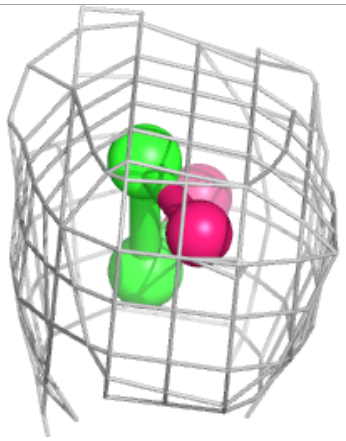


Electron density around EDO A 325:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

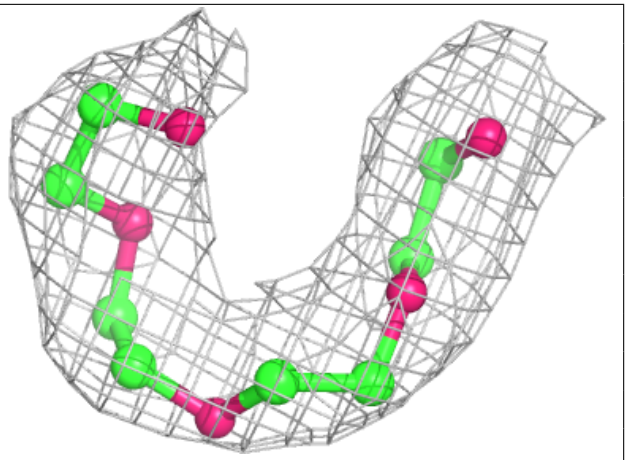


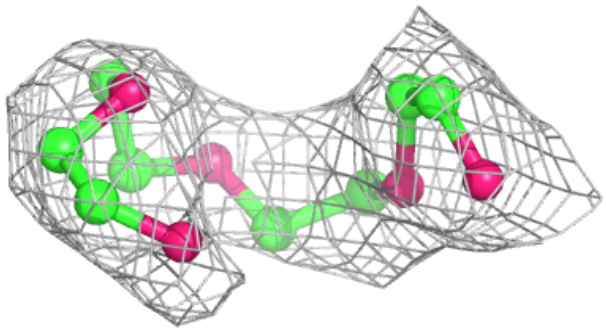


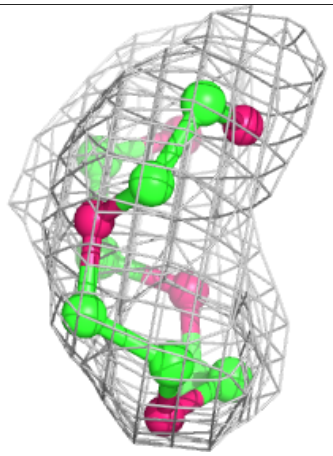


Electron density around PG4 A 332:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

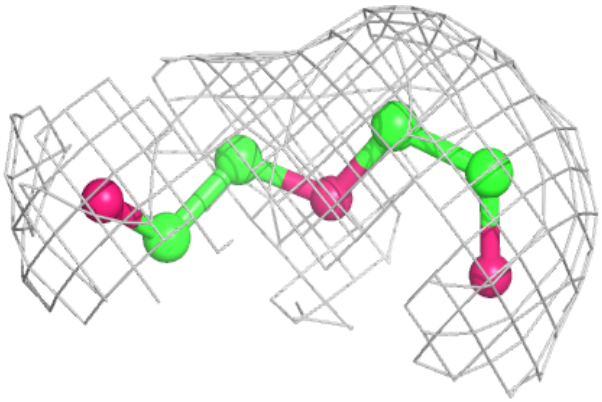


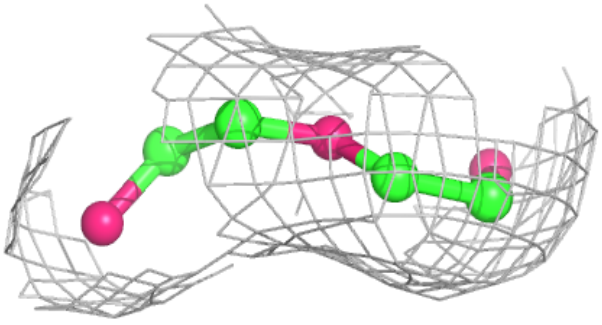


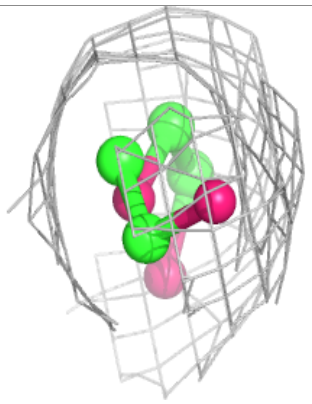


Electron density around PEG A 318:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

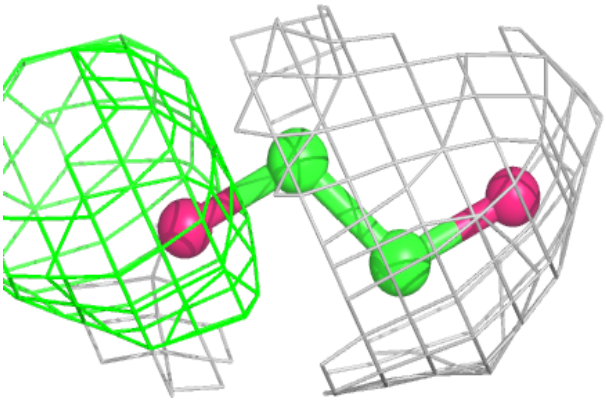


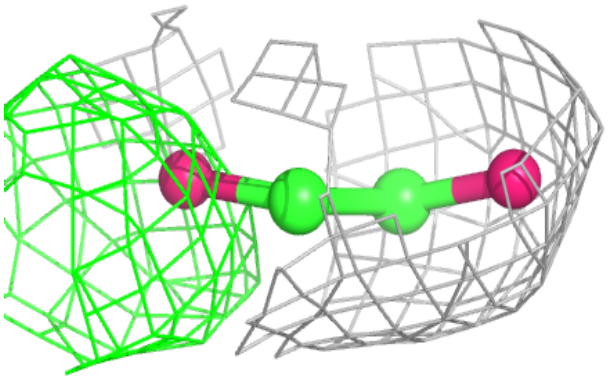


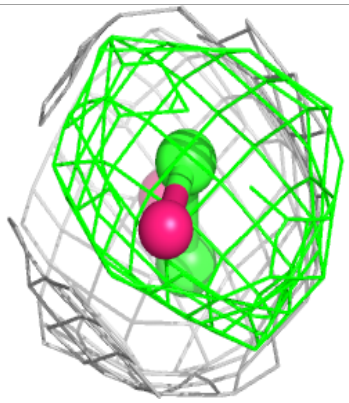


Electron density around EDO A 336:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

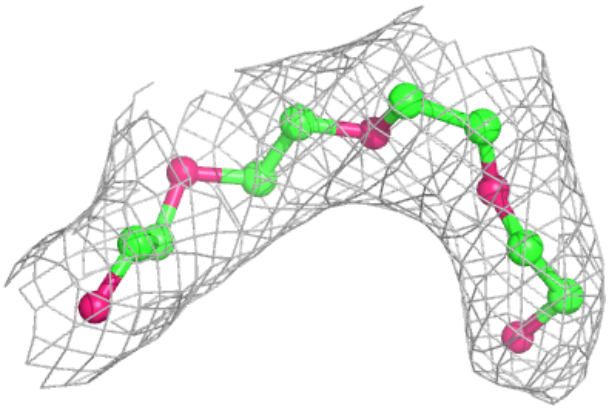


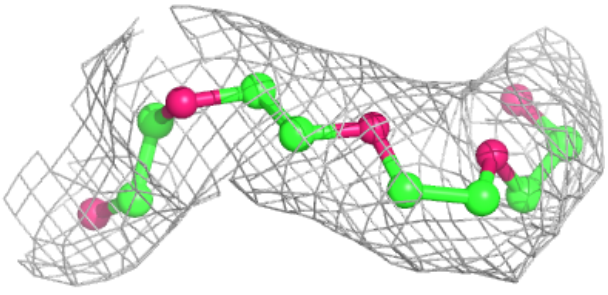


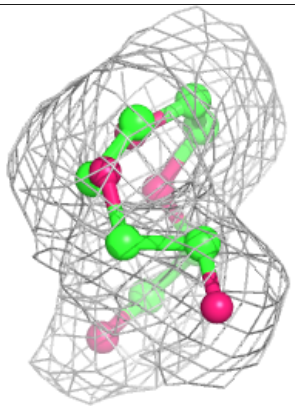


Electron density around PG4 A 344:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

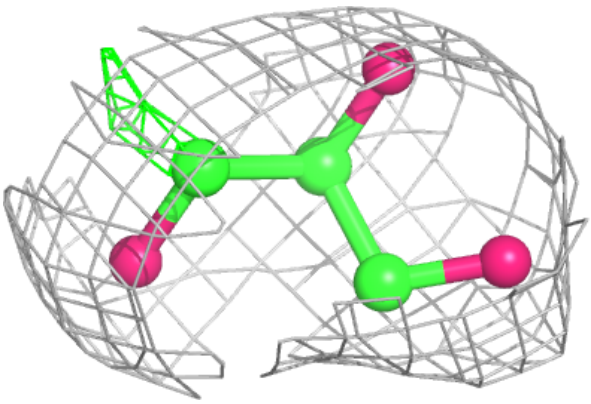


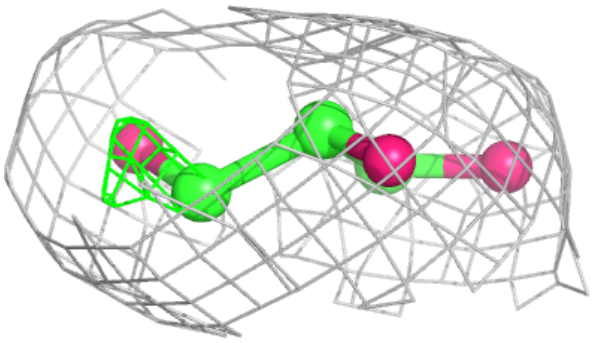


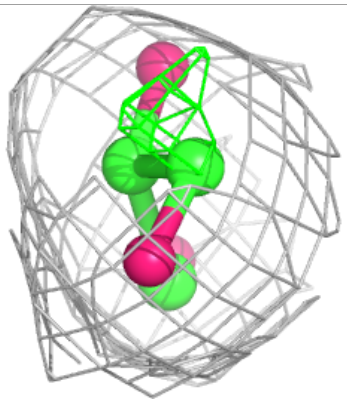


Electron density around GOL A 310:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

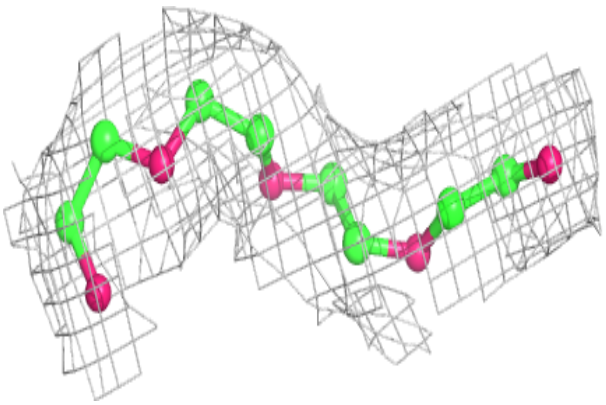


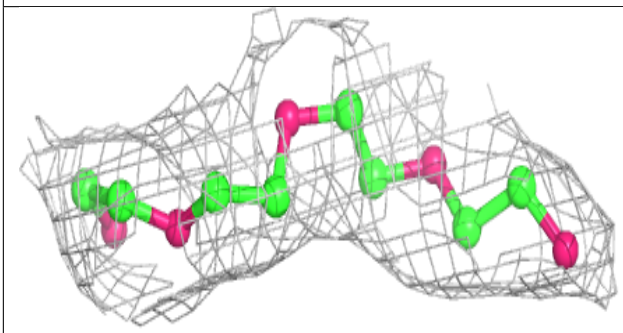


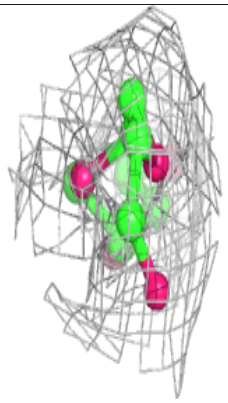


Electron density around PG4 B 125:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

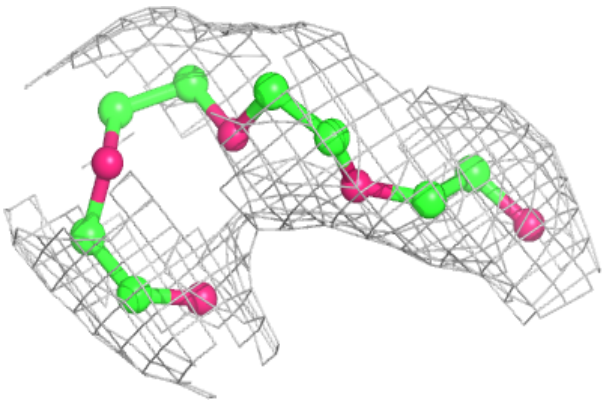


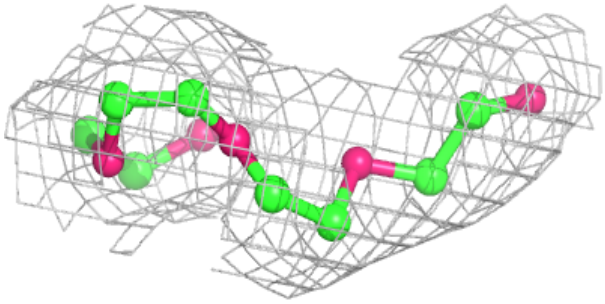


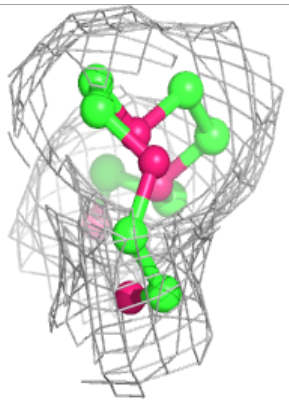


Electron density around PG4 B 126:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

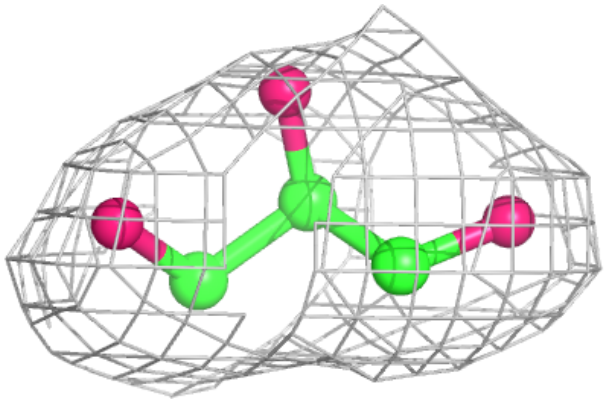


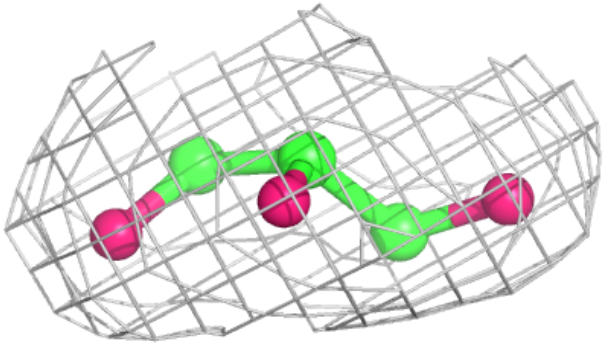


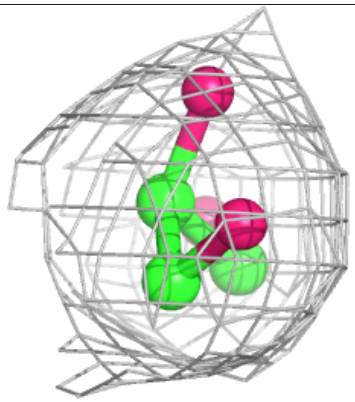


Electron density around GOL A 340:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

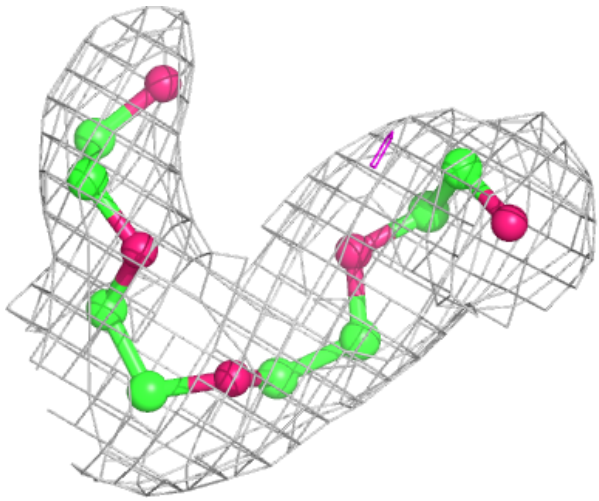


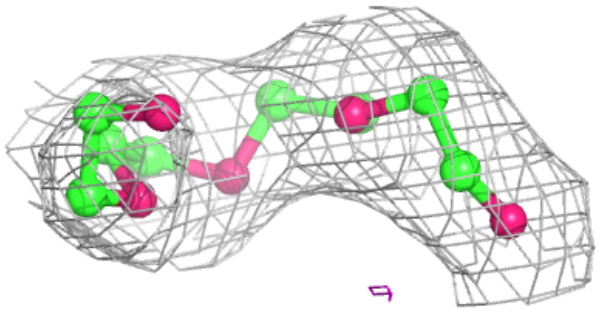


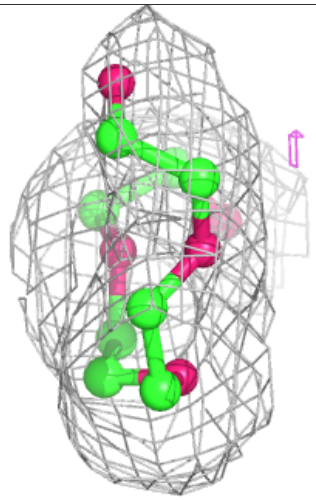


Electron density around PG4 C 337:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

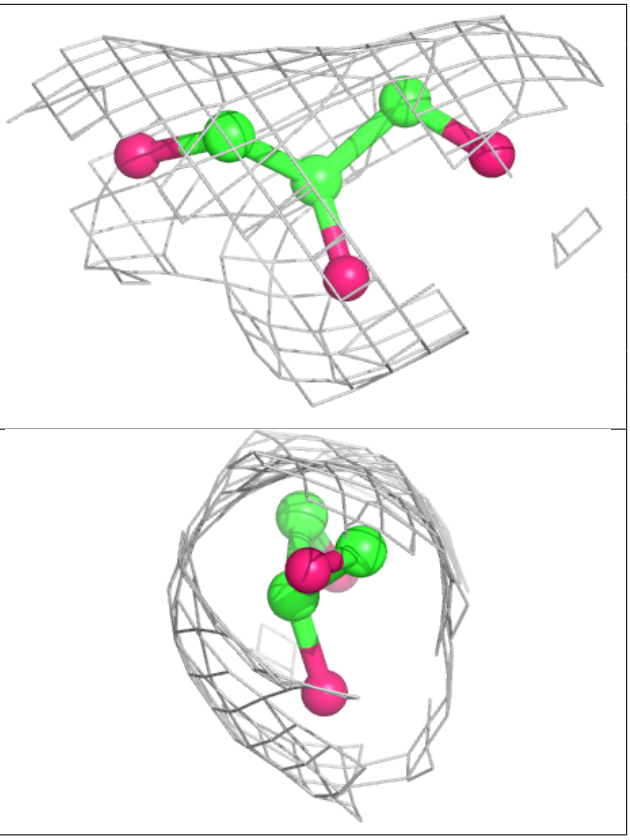


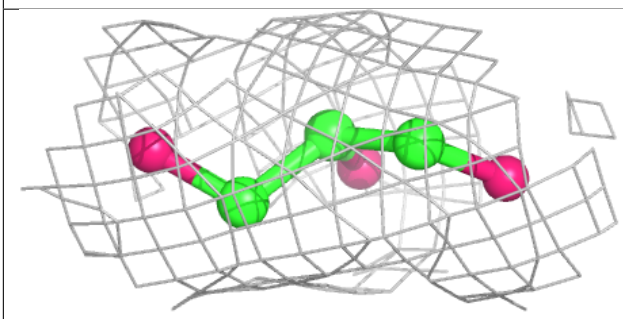




Electron density around GOL B 132:

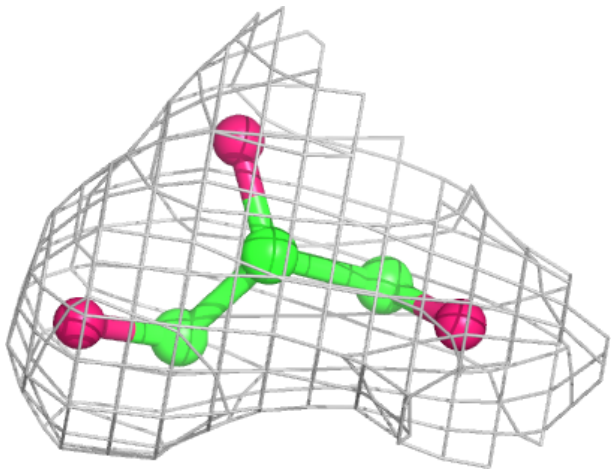
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

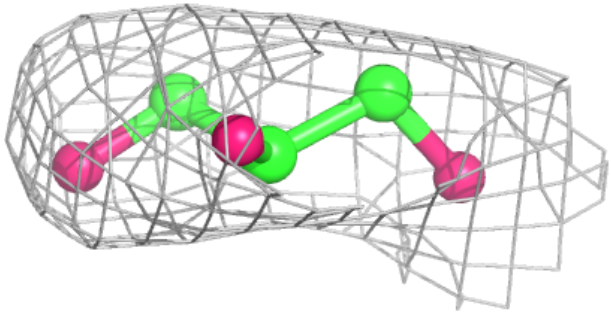


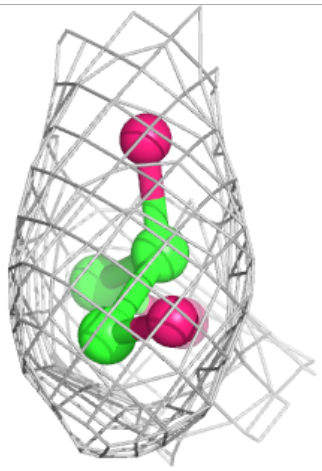


Electron density around GOL E 102:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

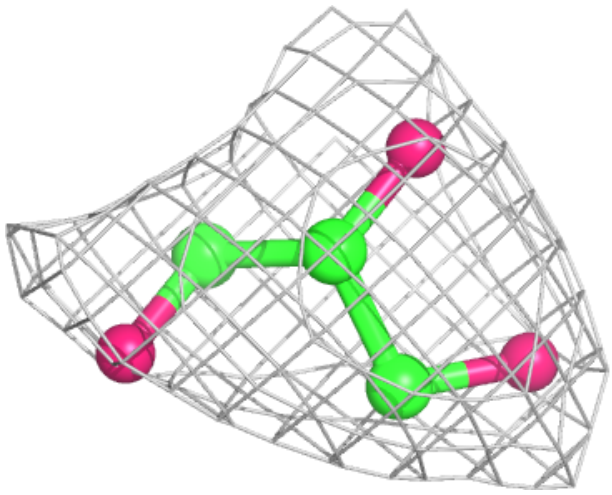


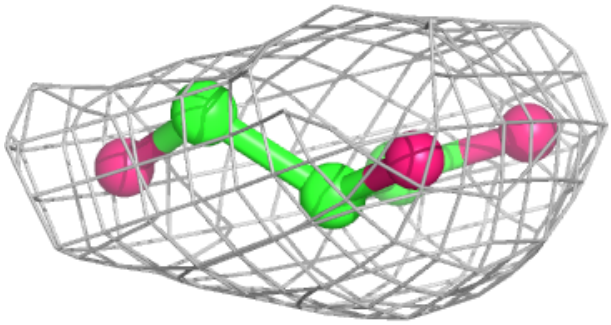


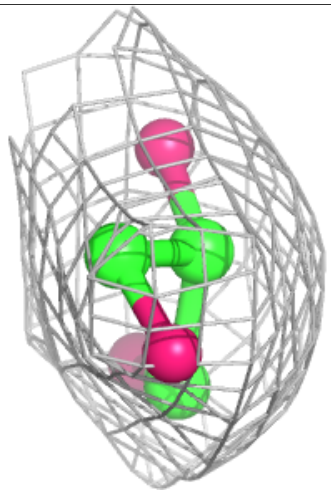


Electron density around GOL A 301:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

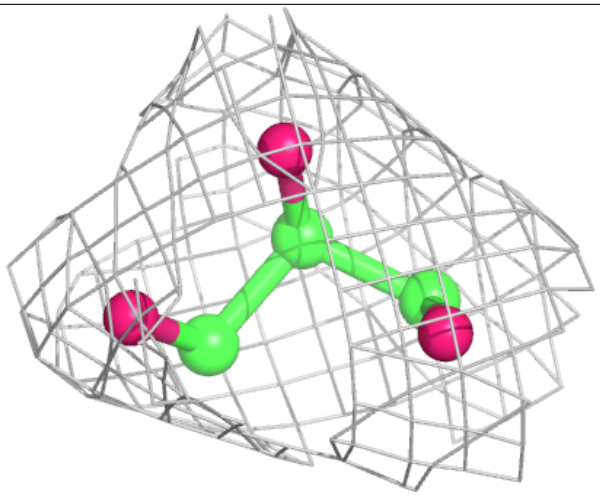


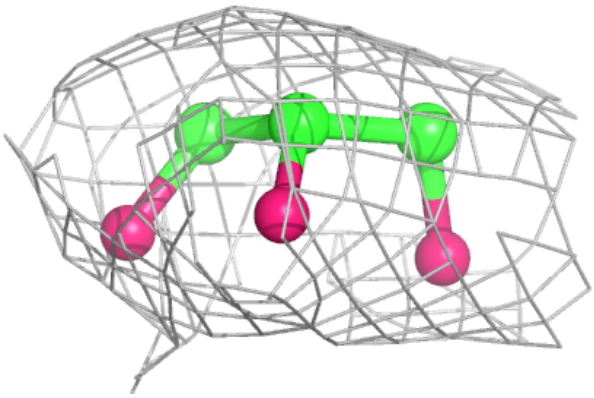


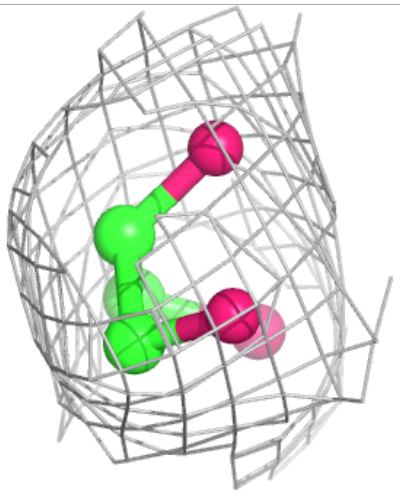


Electron density around GOL B 108:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

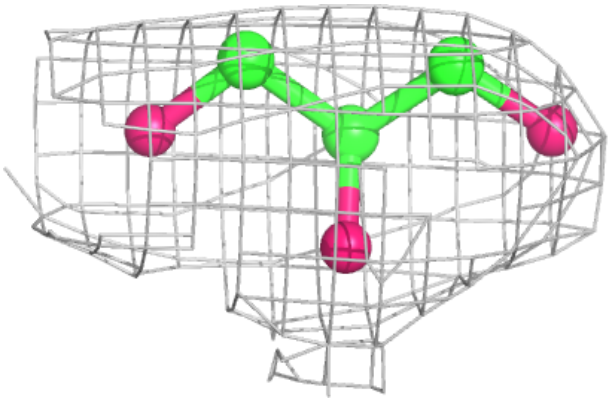


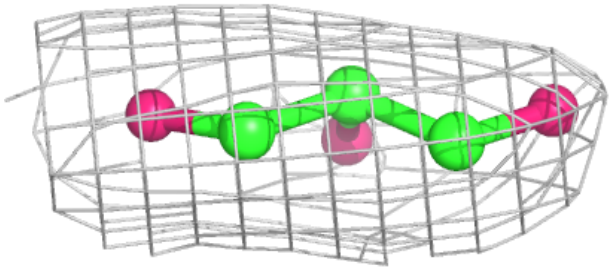


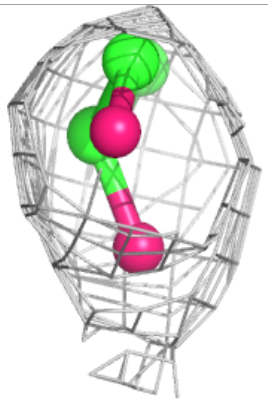


Electron density around GOL A 346:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

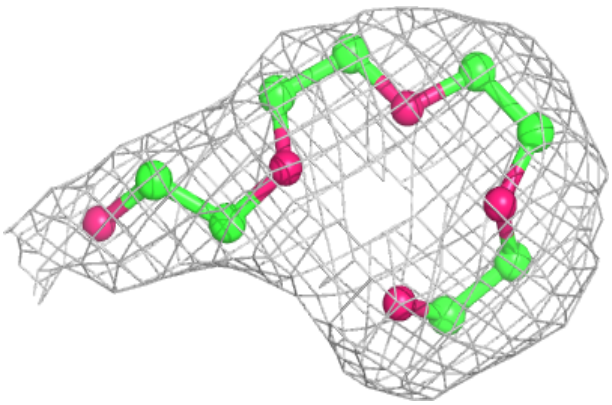


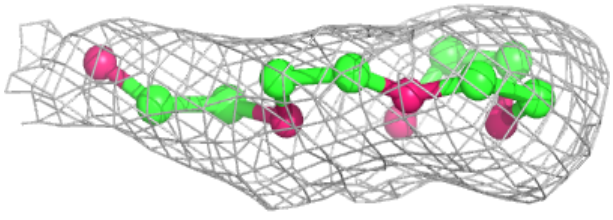


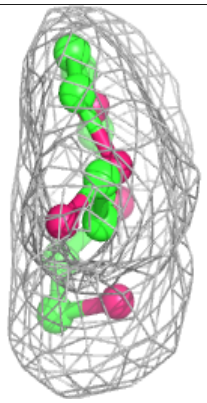


Electron density around PG4 B 128:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

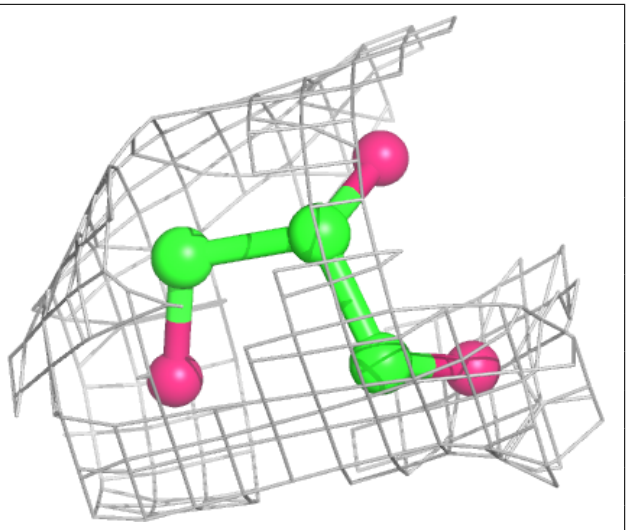


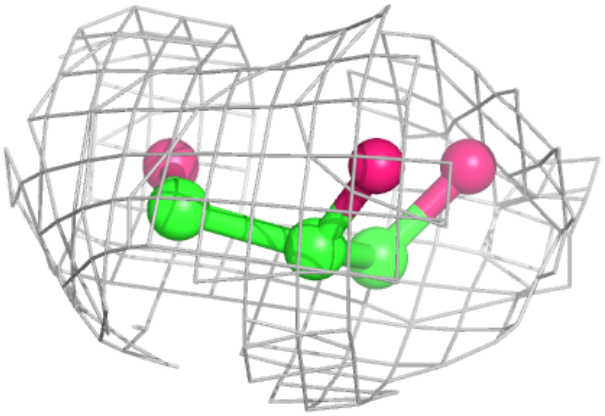




Electron density around GOL B 115:

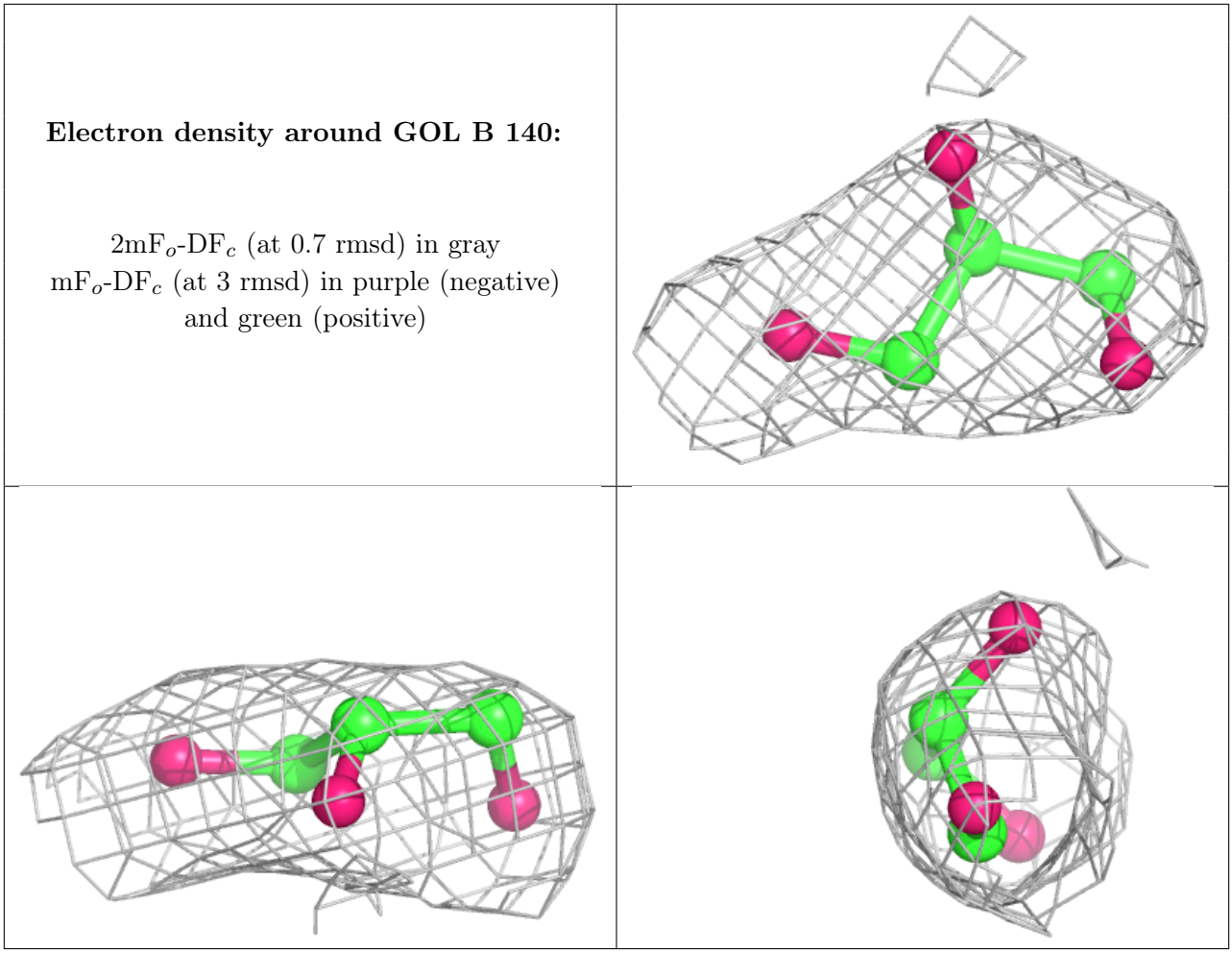
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)





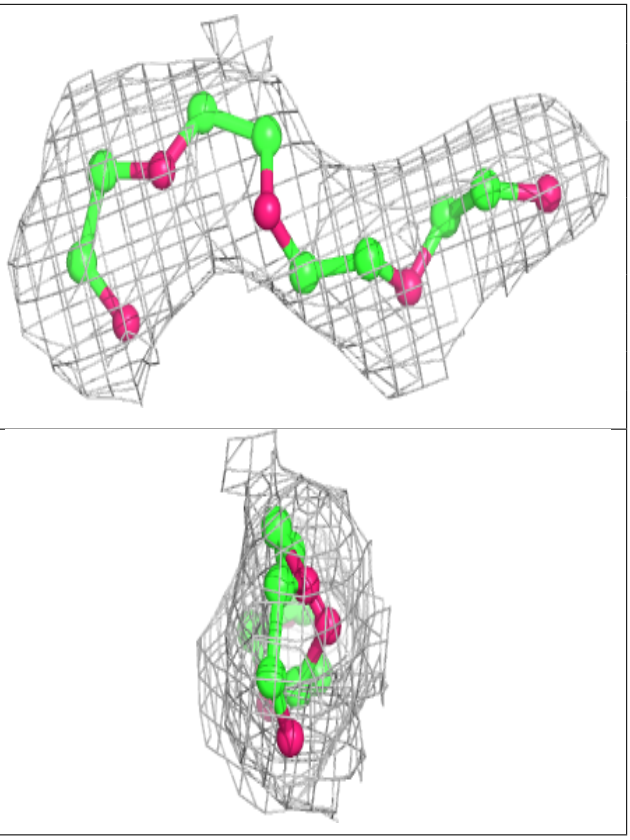
Electron density around GOL B 140:

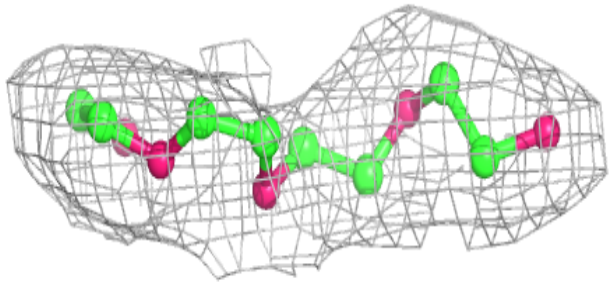
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



Electron density around PG4 E 101:

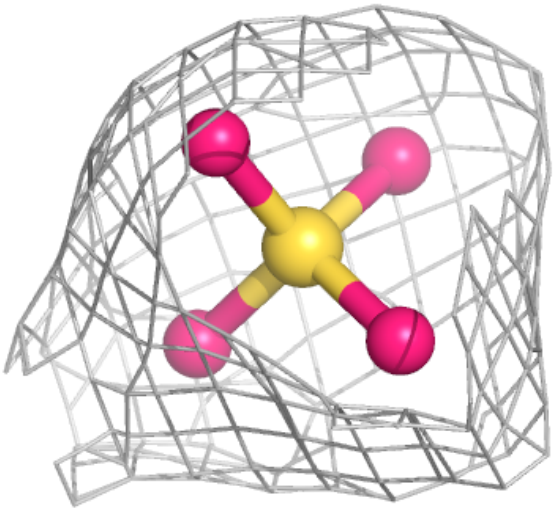
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

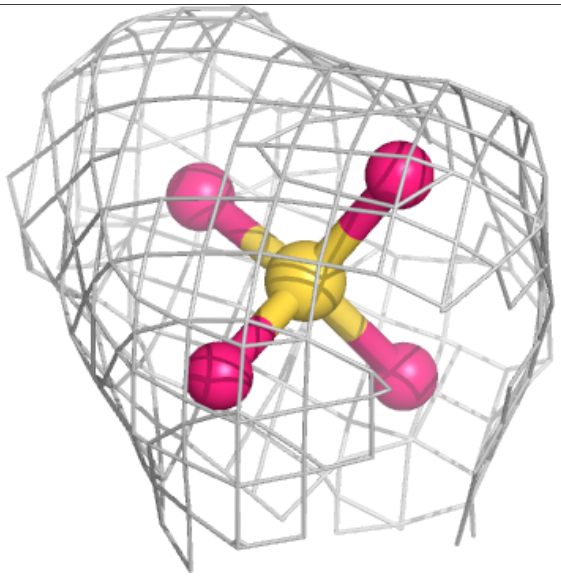


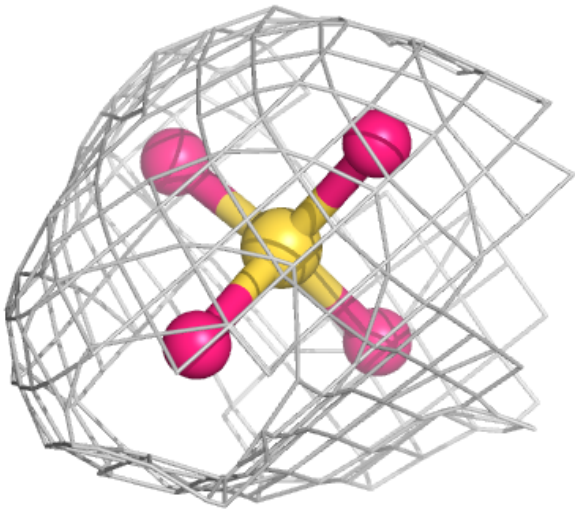


Electron density around SO4 B 119:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

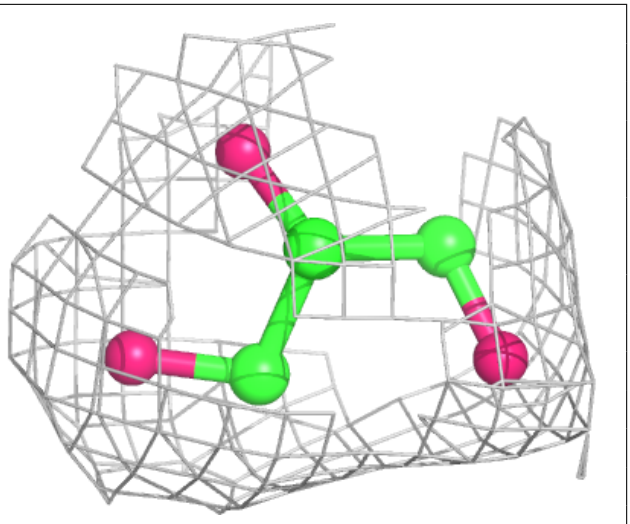


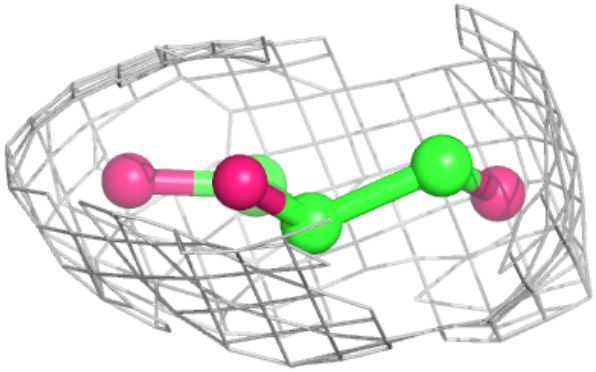


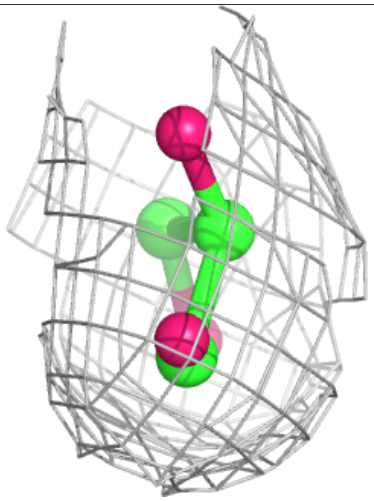


Electron density around GOL A 304:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

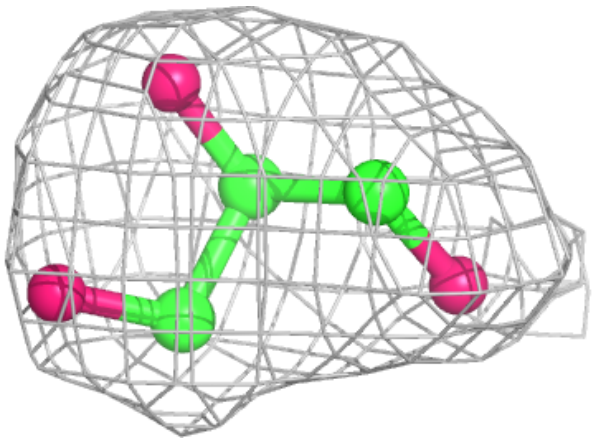


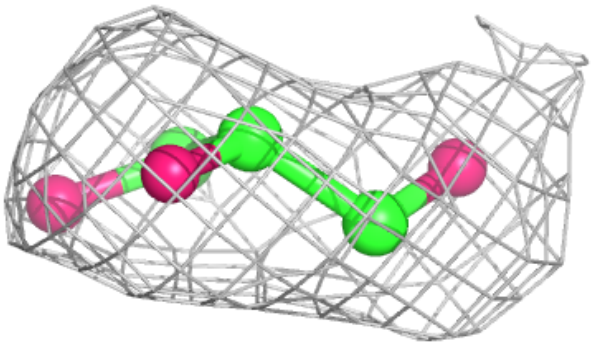


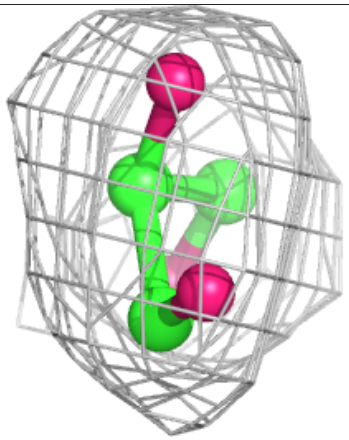


Electron density around GOL D 103:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

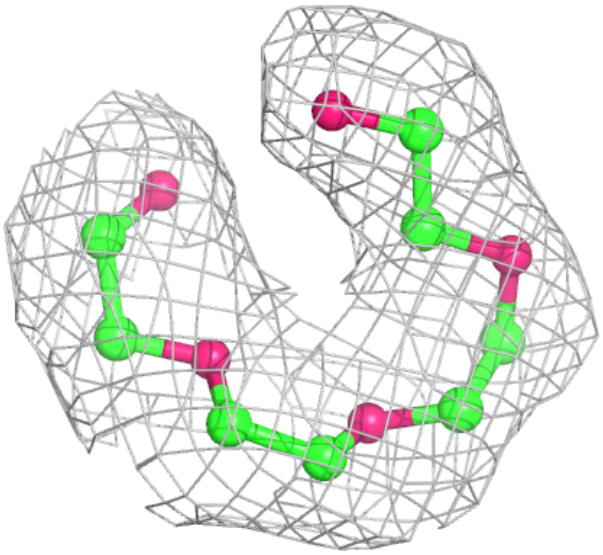


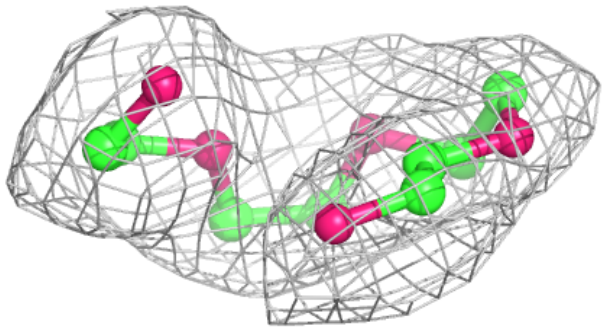


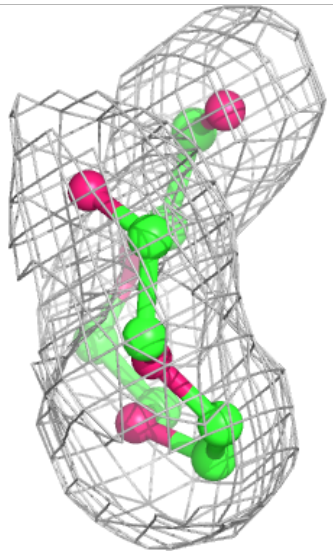


Electron density around PG4 A 333:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

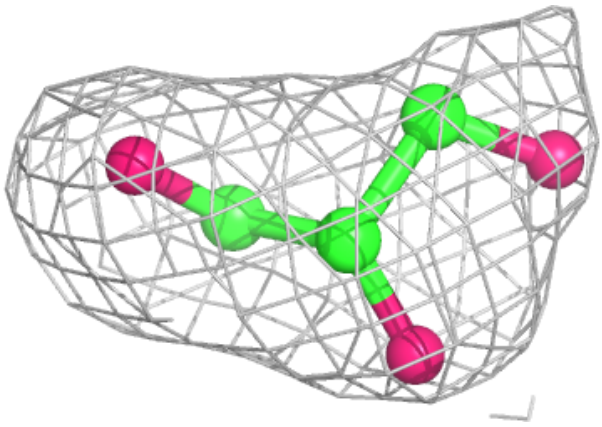


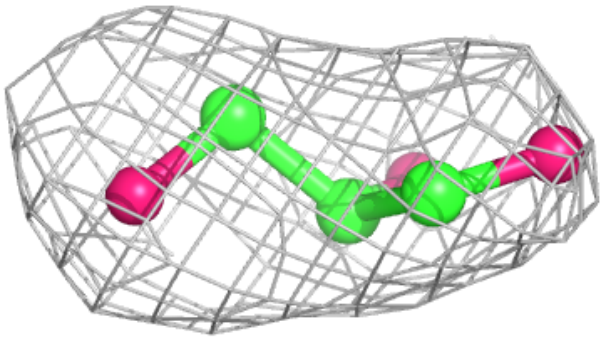


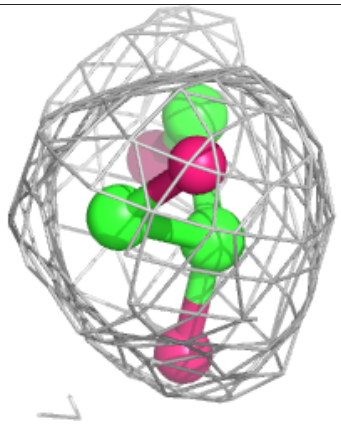


Electron density around GOL C 341:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

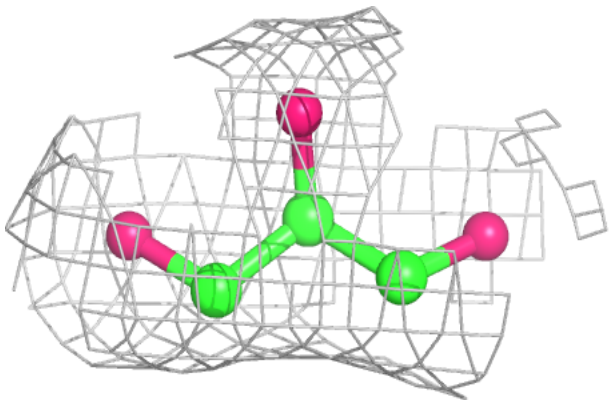


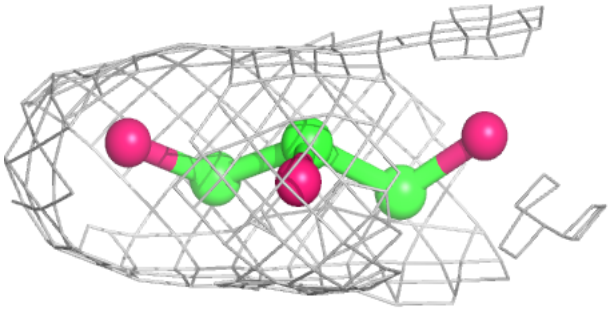


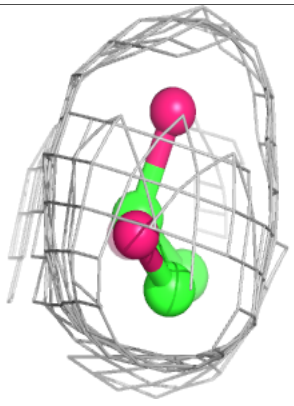


Electron density around GOL A 313:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

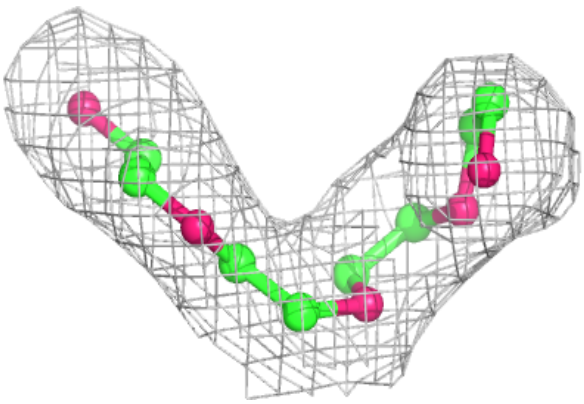


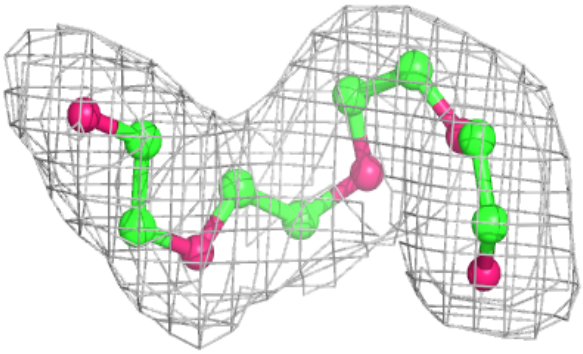


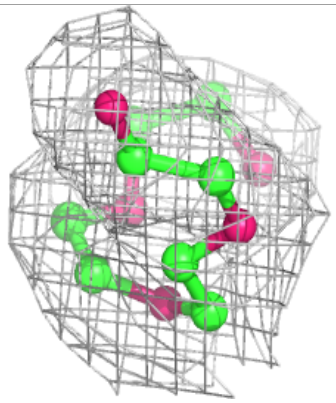


Electron density around PG4 C 326:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

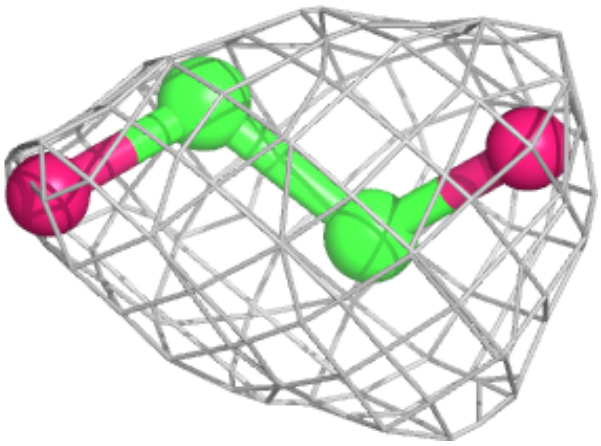


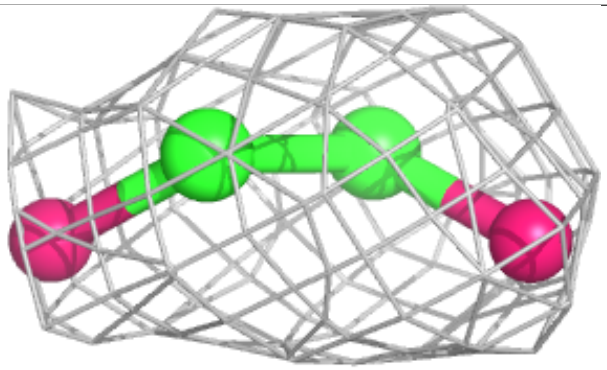


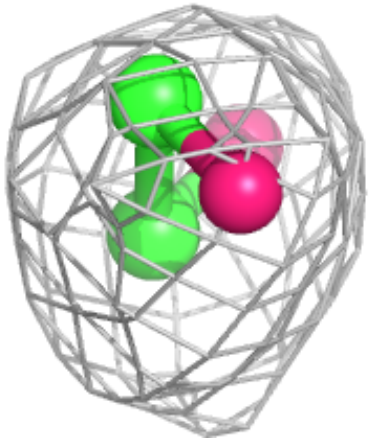


Electron density around EDO A 343:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

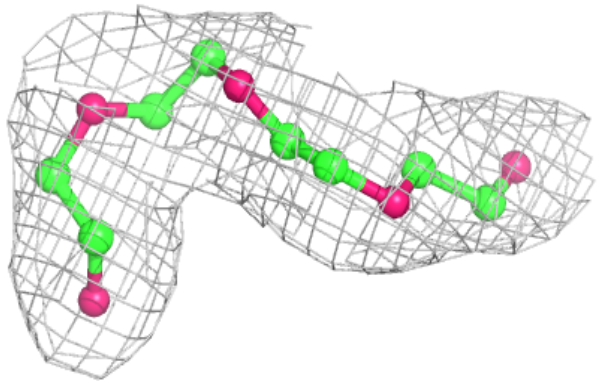


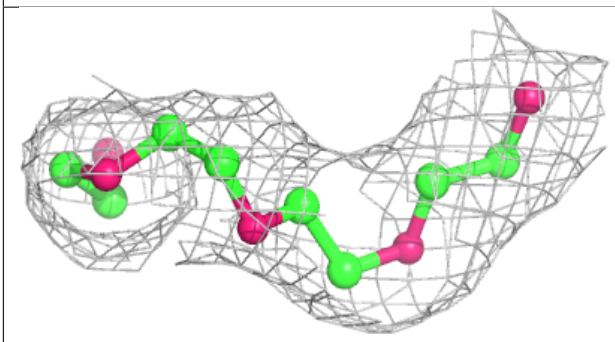


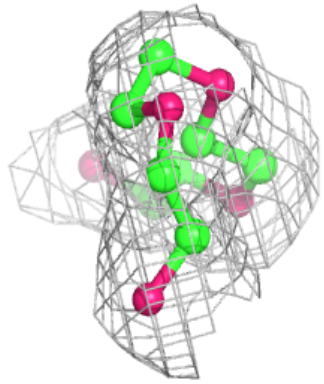


Electron density around PG4 A 329:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

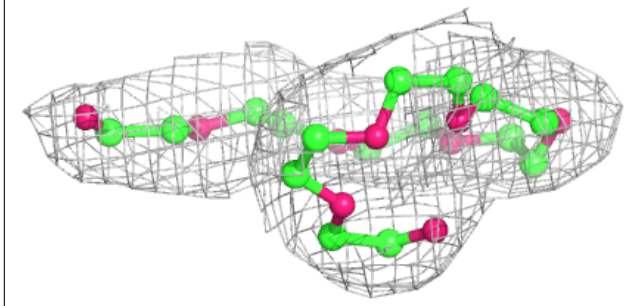


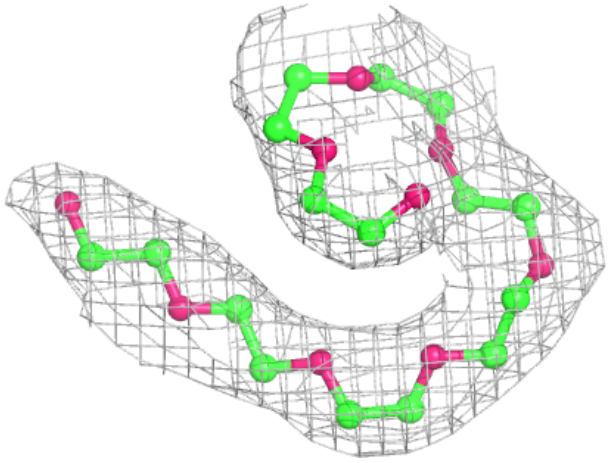


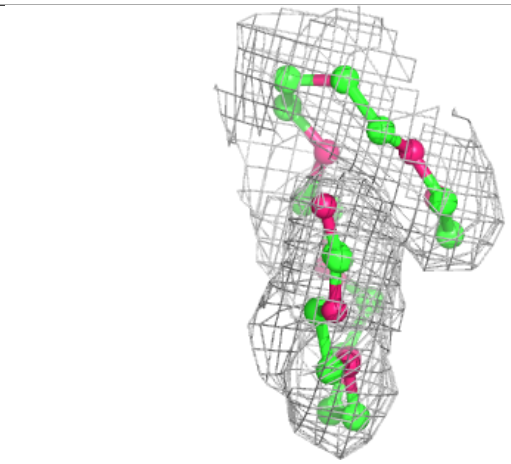


Electron density around PE8 B 121:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

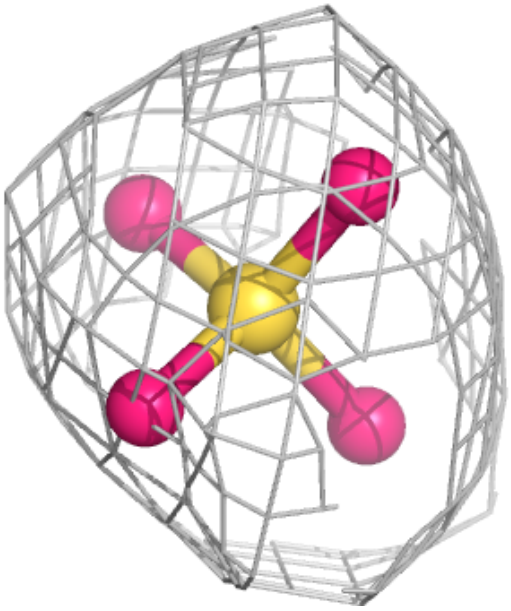


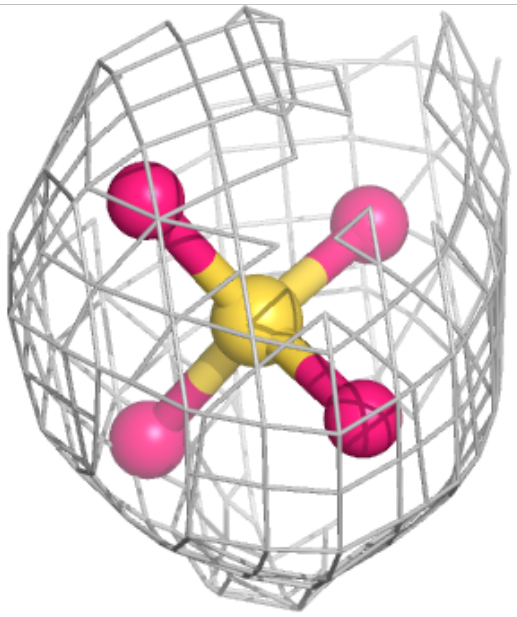


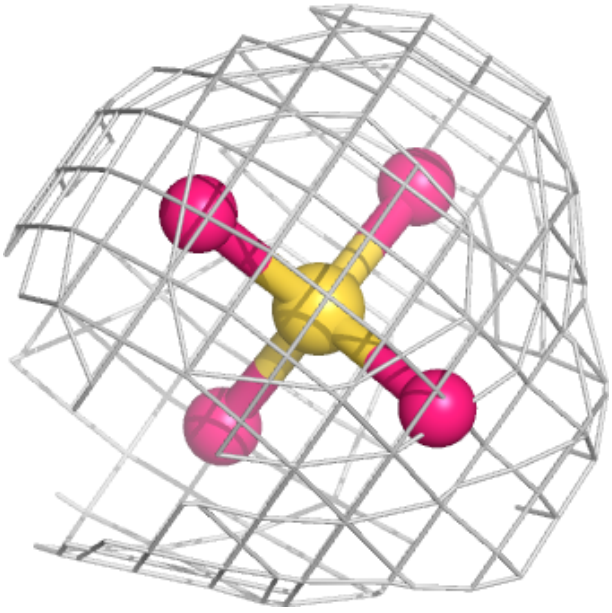


Electron density around SO4 D 112:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

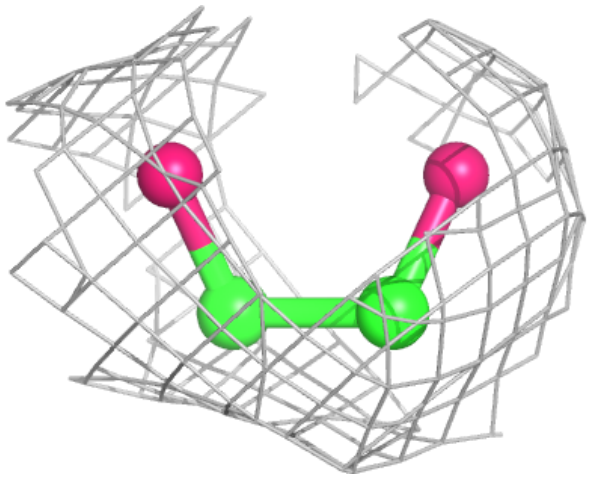


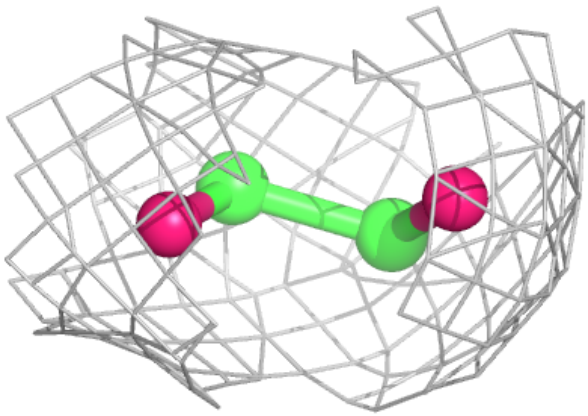


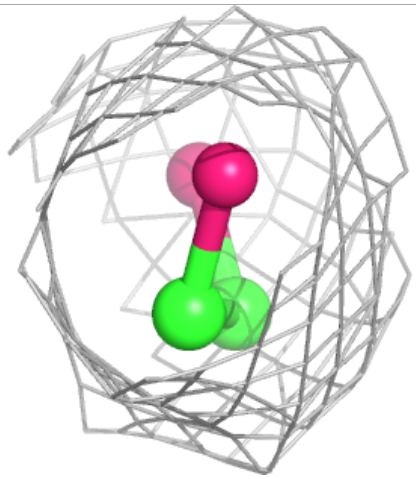


Electron density around EDO A 326:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

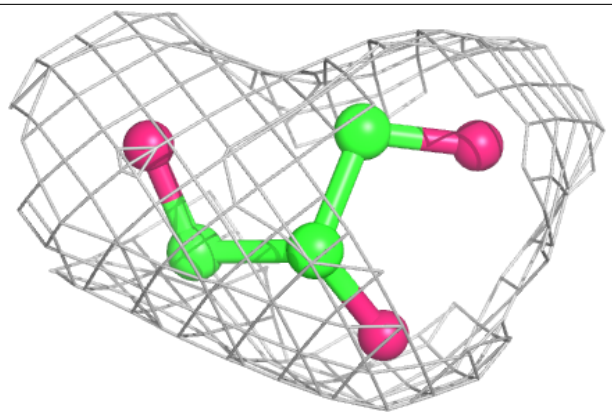


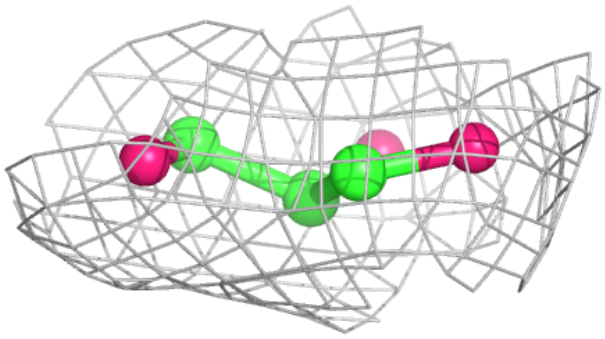


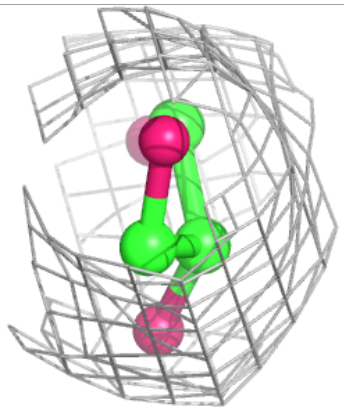


Electron density around GOL A 305:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

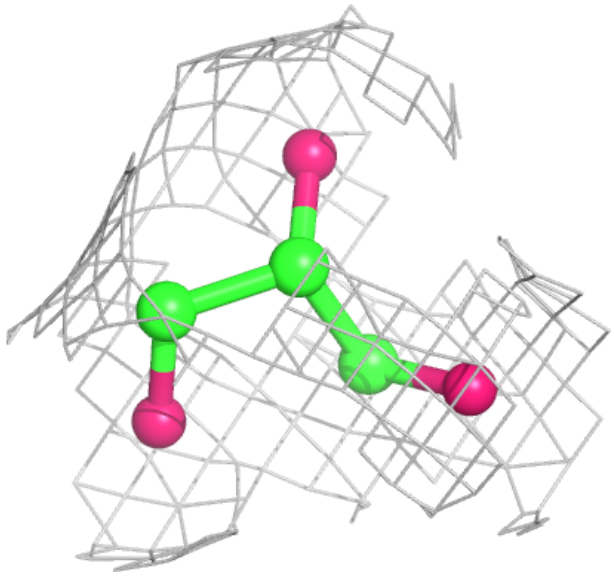


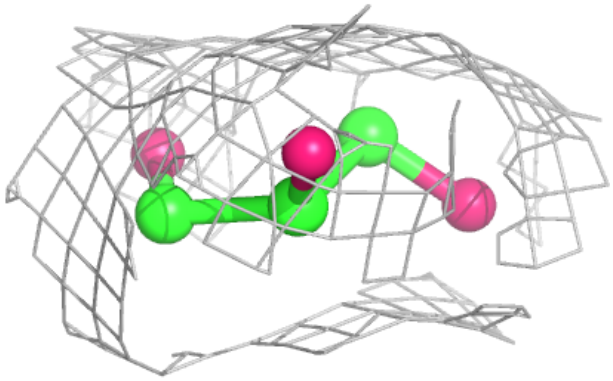


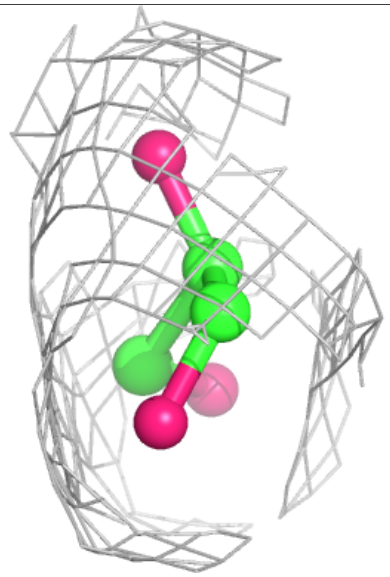


Electron density around GOL B 134:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

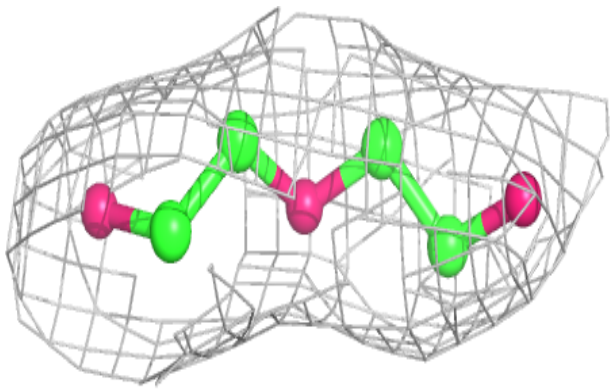


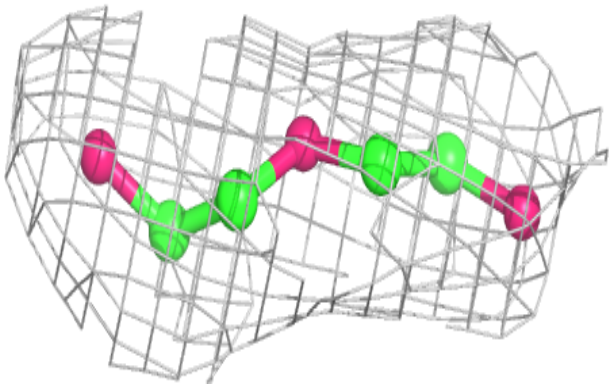


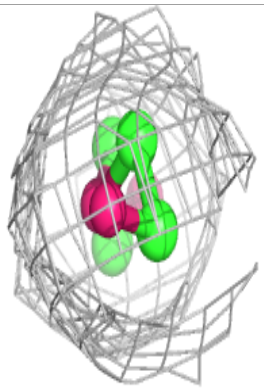


Electron density around PEG A 321:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

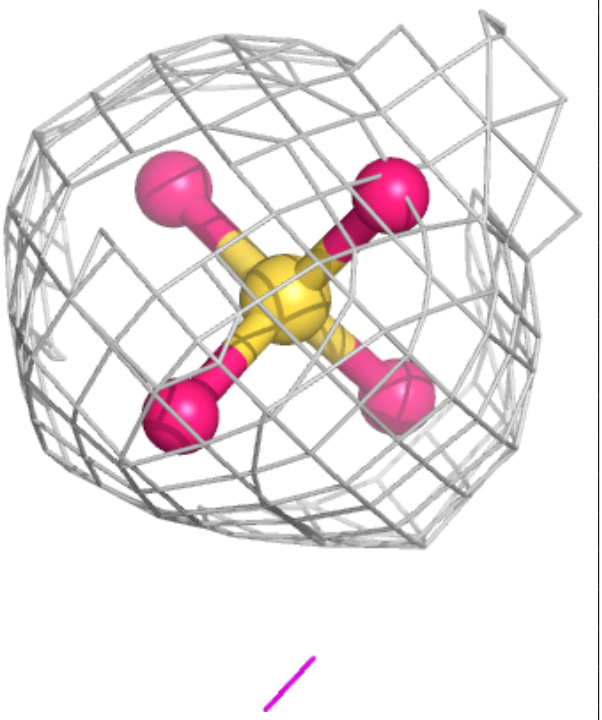


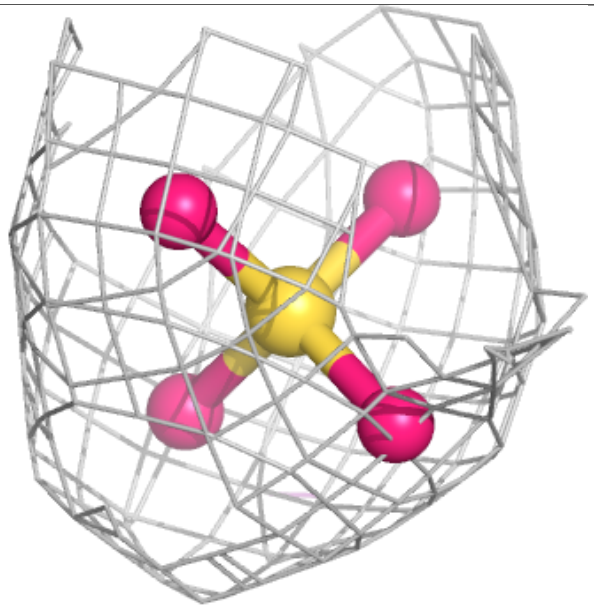


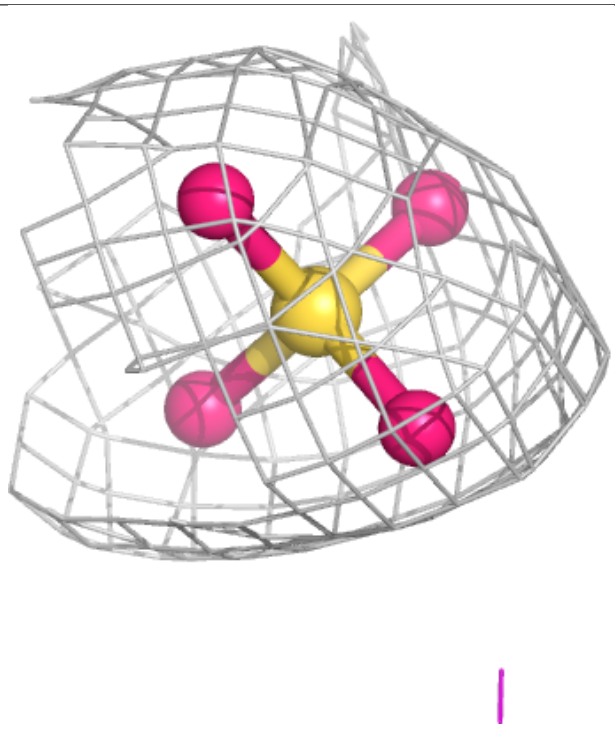


Electron density around SO4 D 114:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

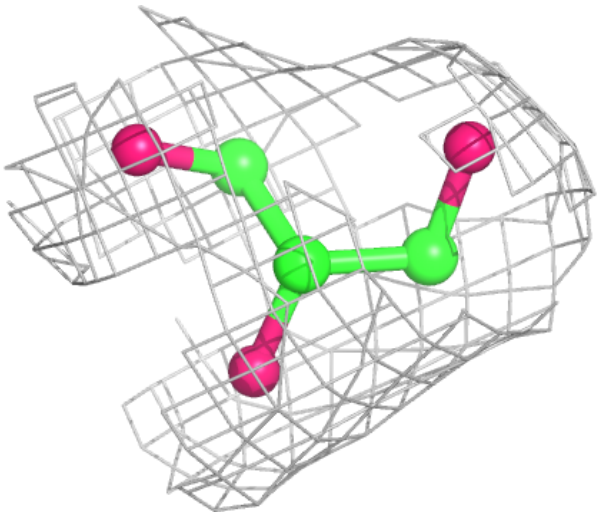


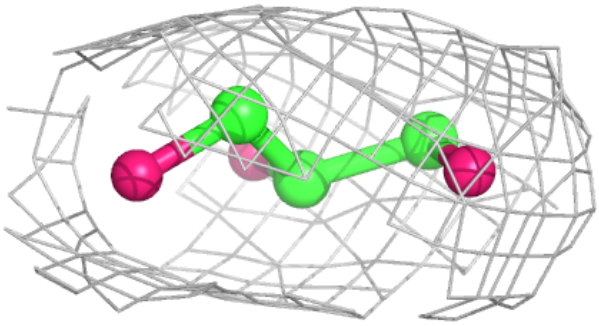


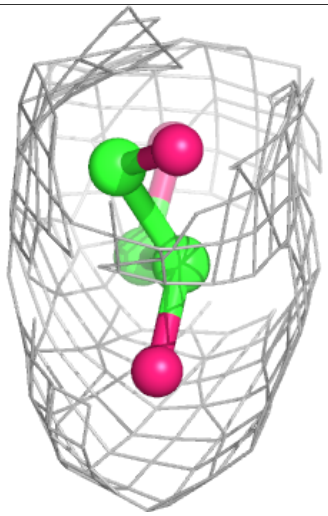


Electron density around GOL A 302:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

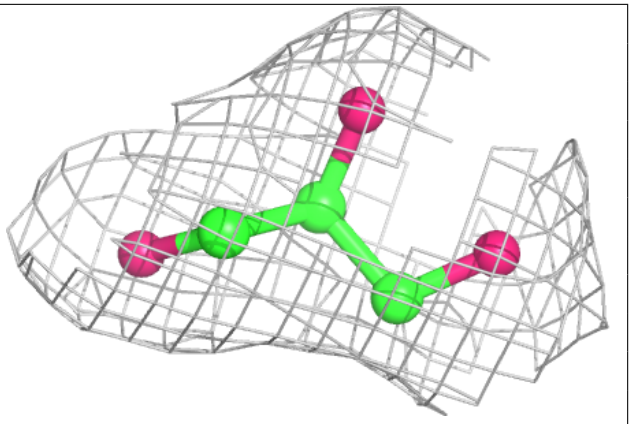


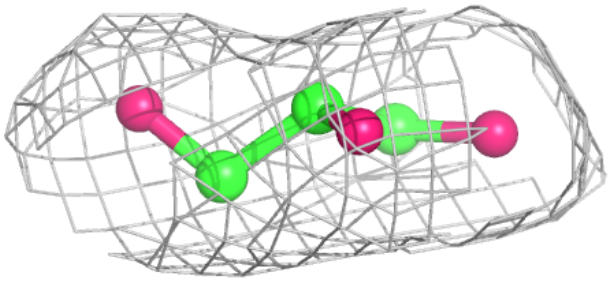


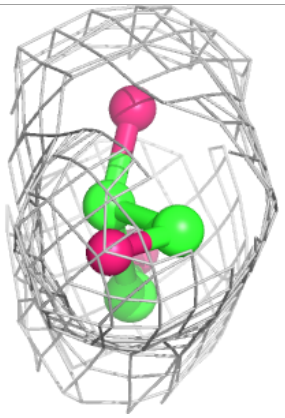


Electron density around GOL C 305:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

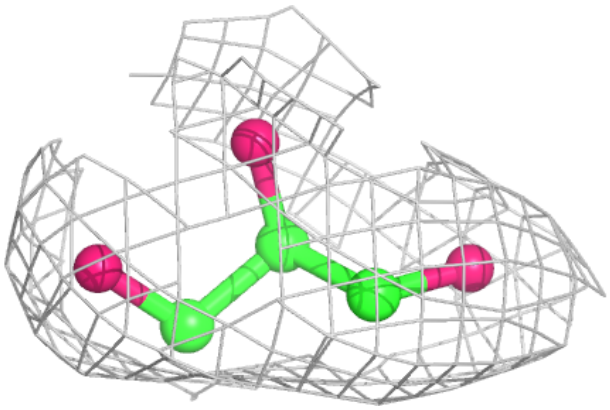


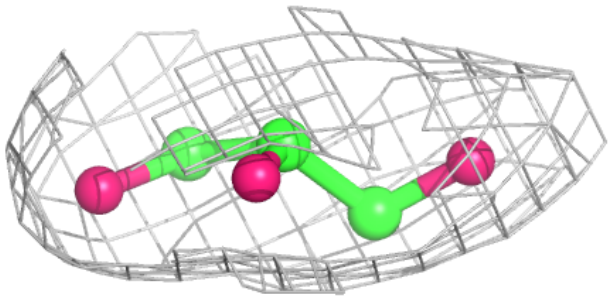


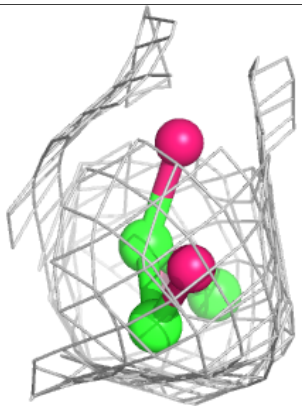


Electron density around GOL A 312:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

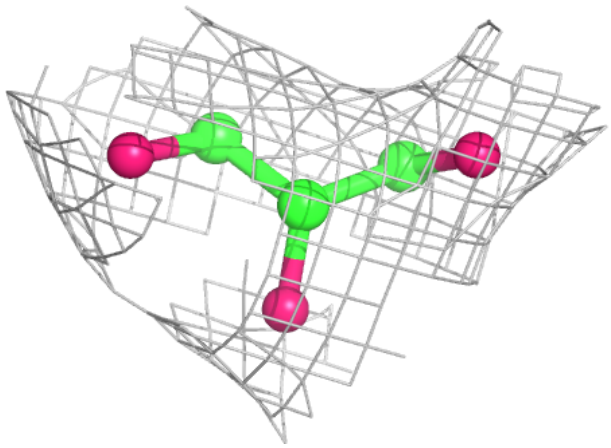


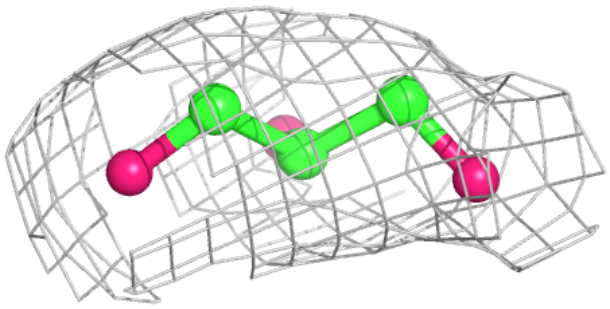


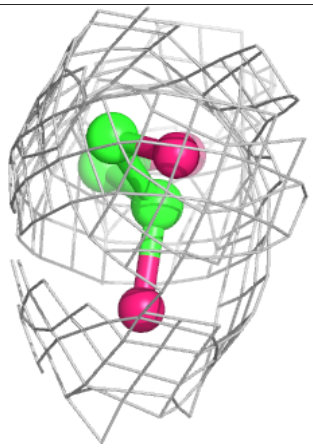


Electron density around GOL C 338:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

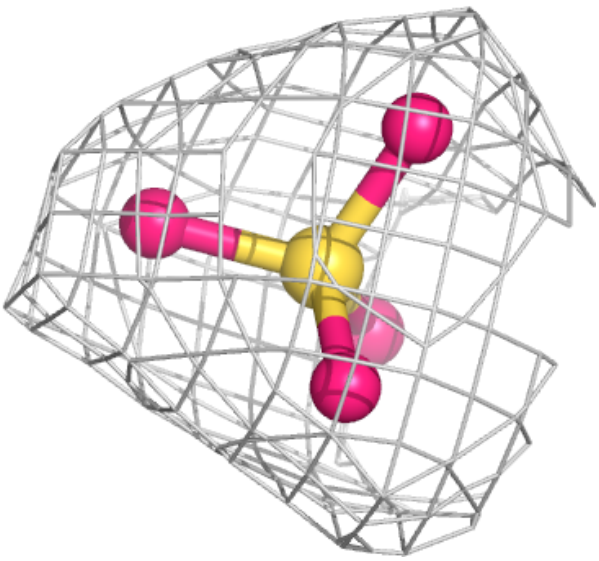


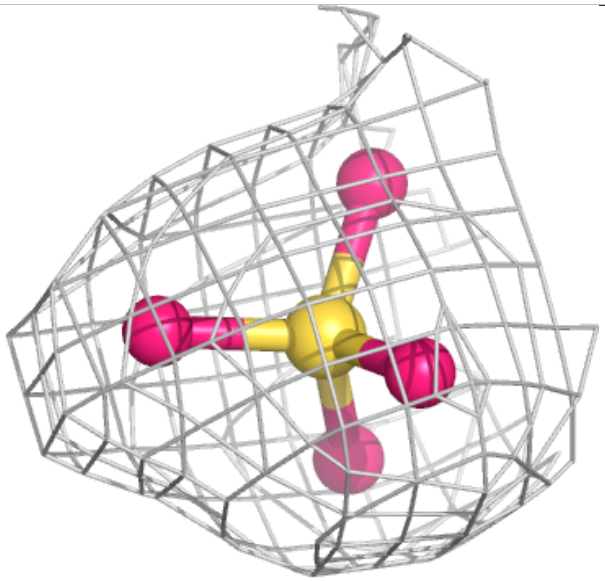


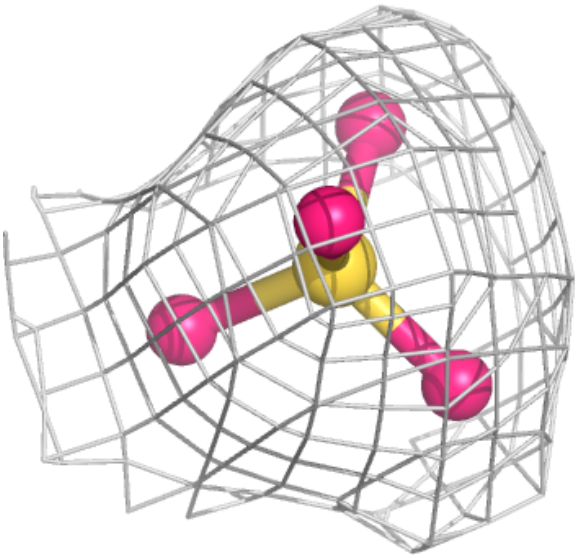


Electron density around SO4 D 126:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

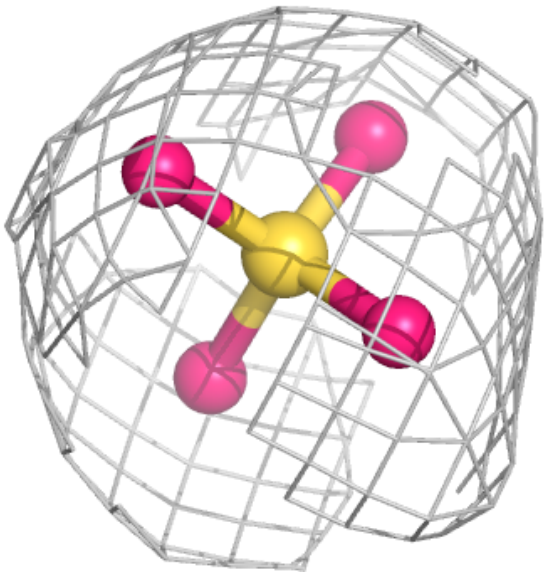


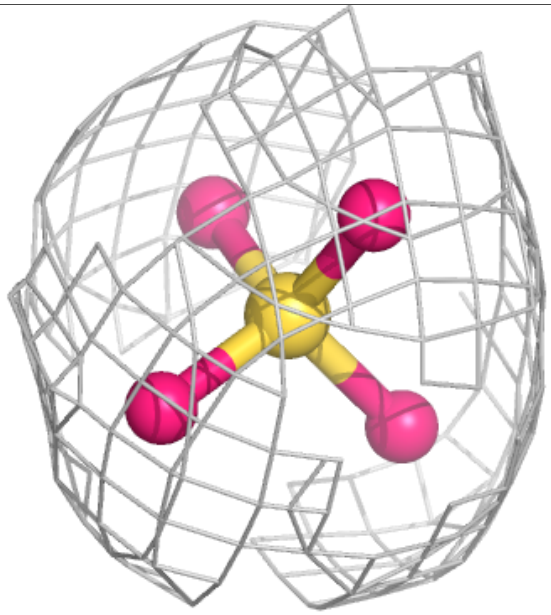


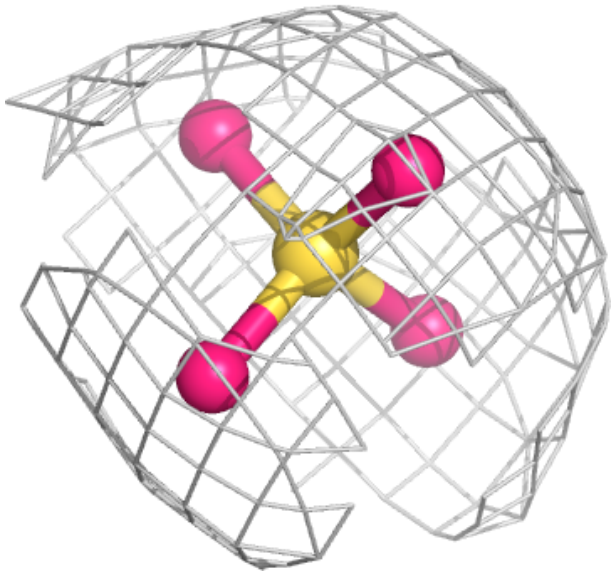


Electron density around SO4 E 107:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

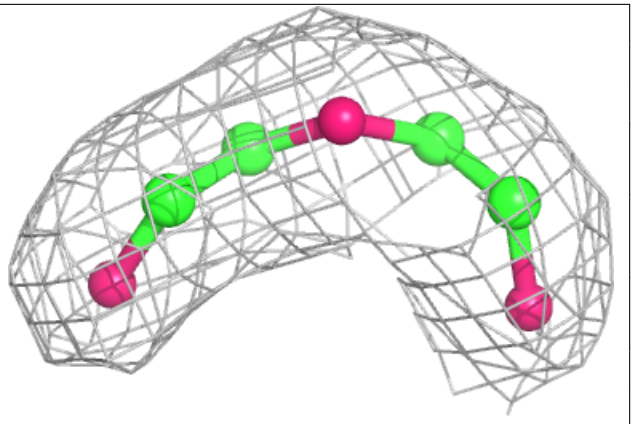


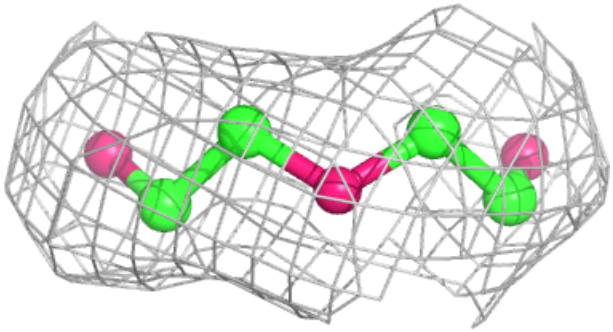


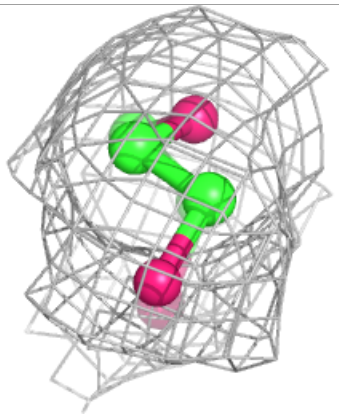


Electron density around PEG C 340:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

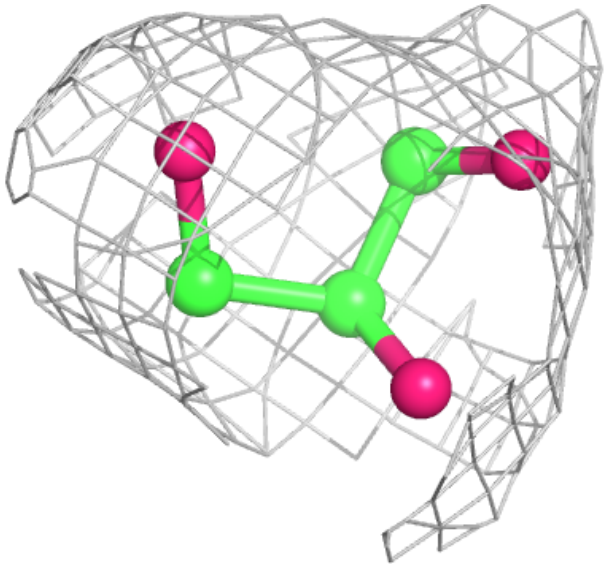


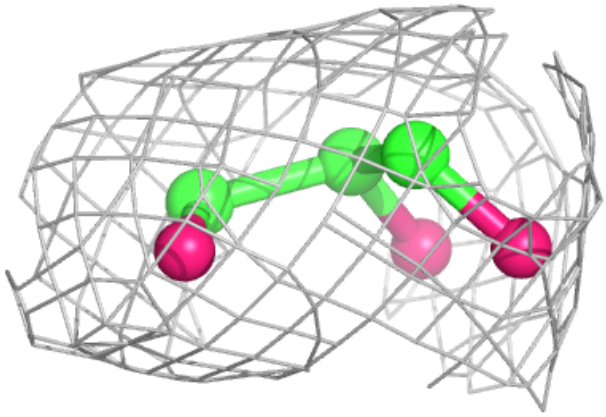


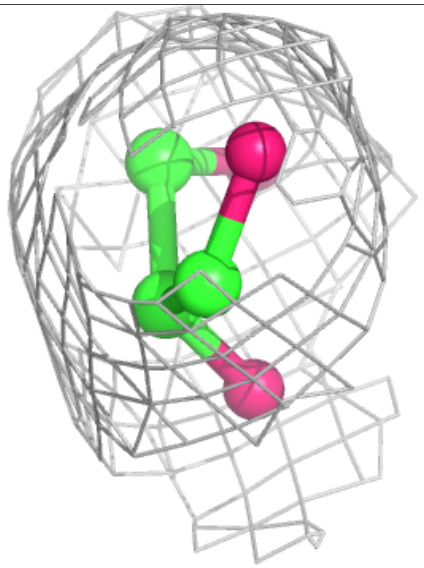


Electron density around GOL A 306:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

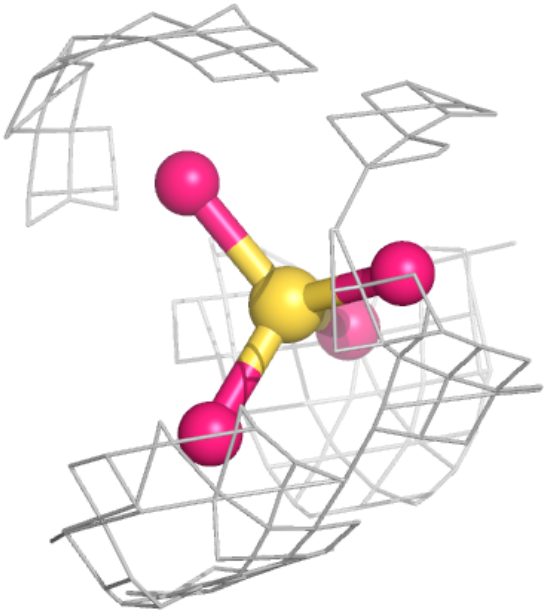


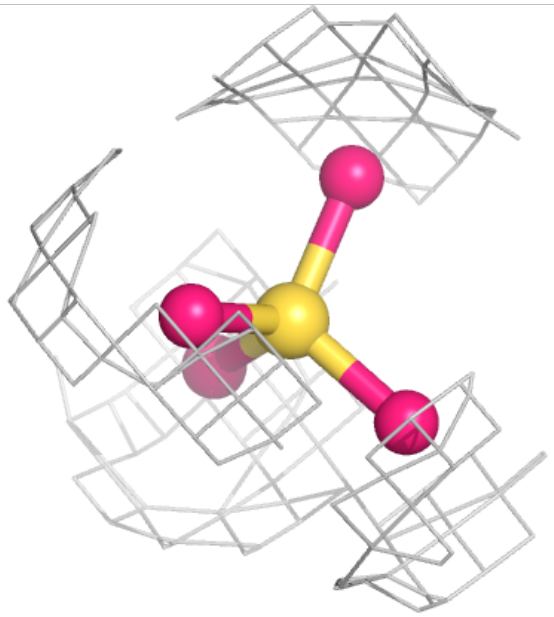


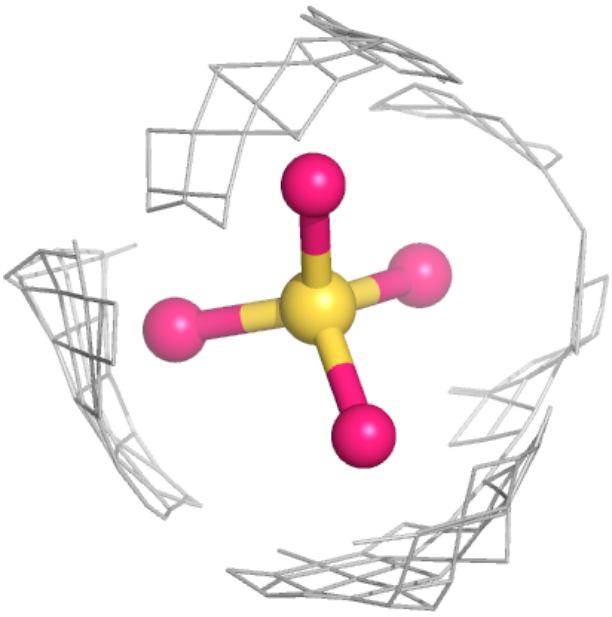


Electron density around SO4 C 336:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

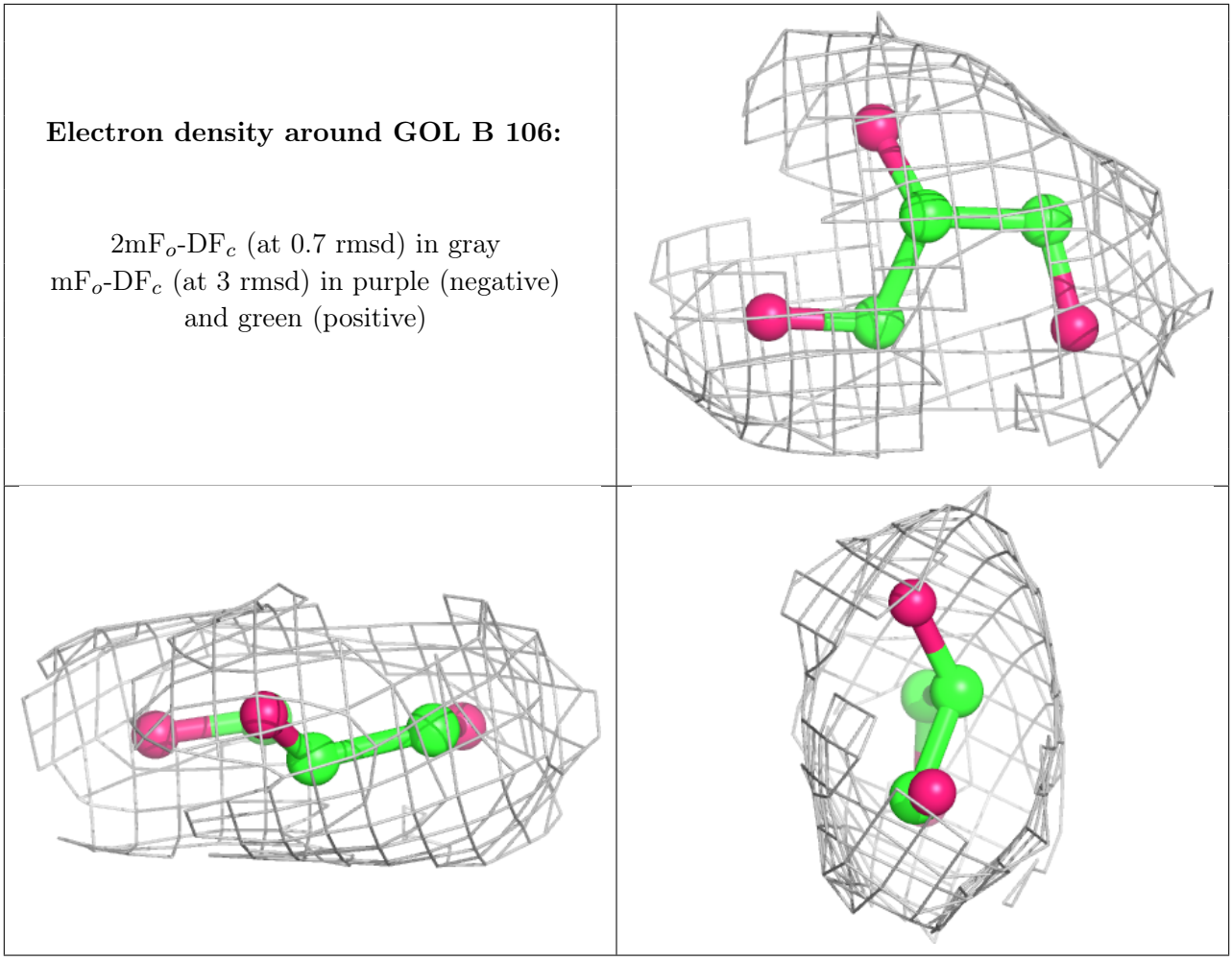






Electron density around GOL B 106:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



6.5 Other polymers

There are no such residues in this entry.