



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 16, 2026 – 02:27 PM JST

PDB ID : 9LYU / pdb_00009lyu
Title : Crystal structure of glycerol kinase from Entamoeba histolytica (Ligand-free form)
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Deposited on : 2025-02-21
Resolution : 2.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 2.0
EDS : 3.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.48

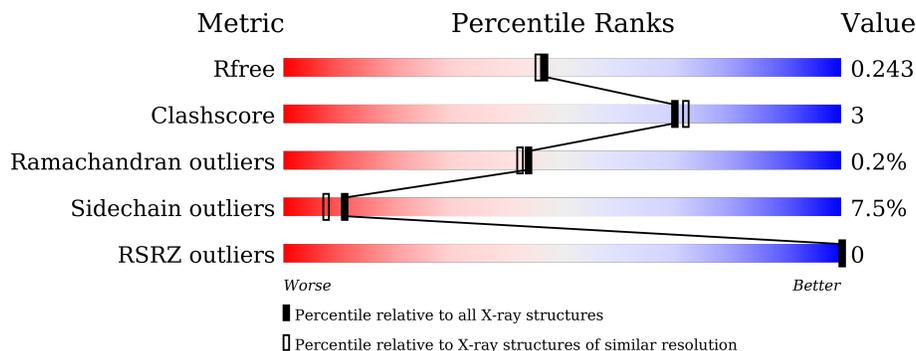
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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}	164625	9409 (2.00-2.00)
Clashscore	180529	10737 (2.00-2.00)
Ramachandran outliers	177936	10628 (2.00-2.00)
Sidechain outliers	177891	10627 (2.00-2.00)
RSRZ outliers	164620	9409 (2.00-2.00)

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 $\leq 5\%$. 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	487	 87% 11% .
2	B	485	 87% 11% .

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 7769 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 glycerol kinase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	487	3793	2418	626	728	21	0	1	0

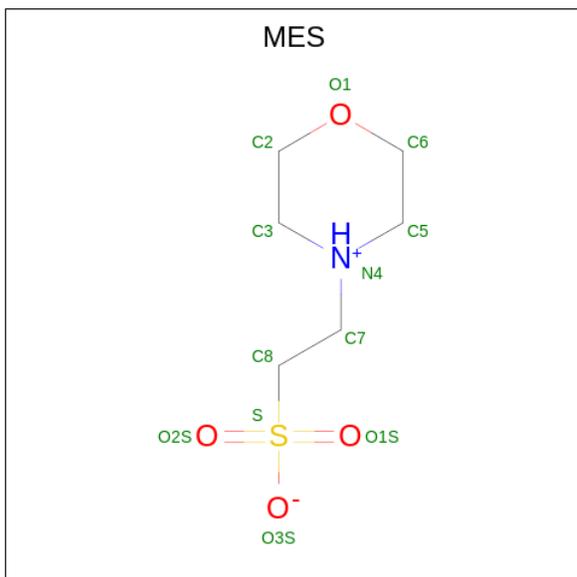
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	expression tag	UNP A0A5K1V6Z1
A	0	SER	-	expression tag	UNP A0A5K1V6Z1

- Molecule 2 is a protein called glycerol kinase.

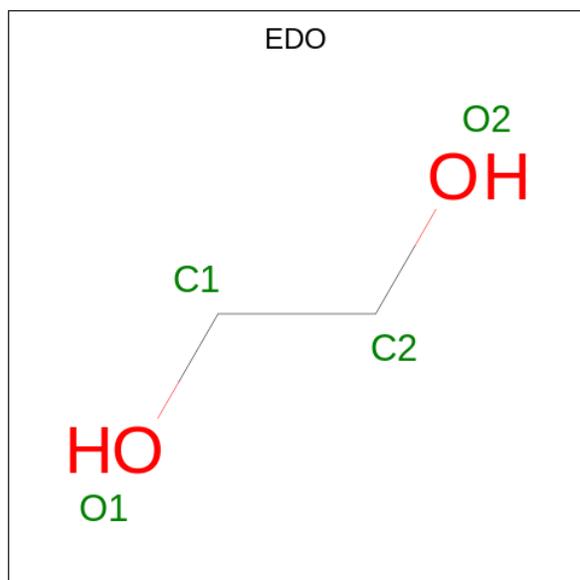
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	485	3784	2413	625	726	20	0	1	0

- Molecule 3 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (CCD ID: MES) (formula: $C_6H_{13}NO_4S$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	S	0	0
			12	6	1	4	1		
3	B	1	Total	C	N	O	S	0	0
			12	6	1	4	1		

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂) (labeled as "Ligand of Interest" by depositor).



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

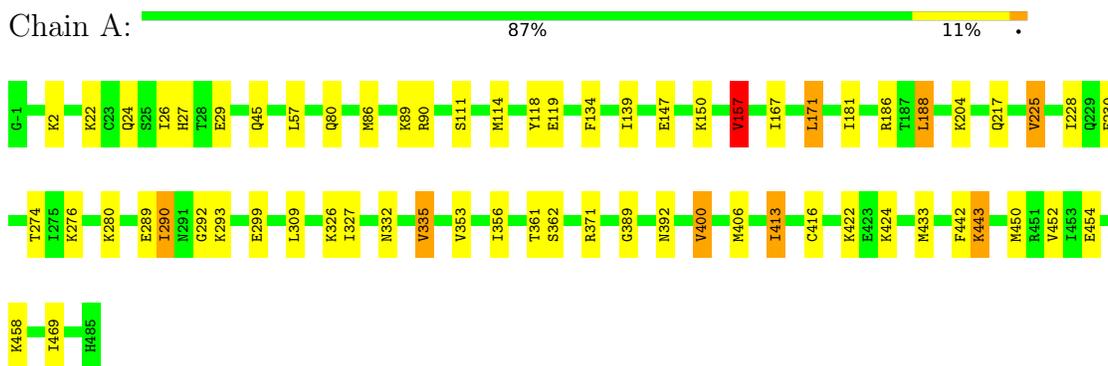
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	67	Total	O	0	0
			67	67		
5	B	93	Total	O	0	0
			93	93		

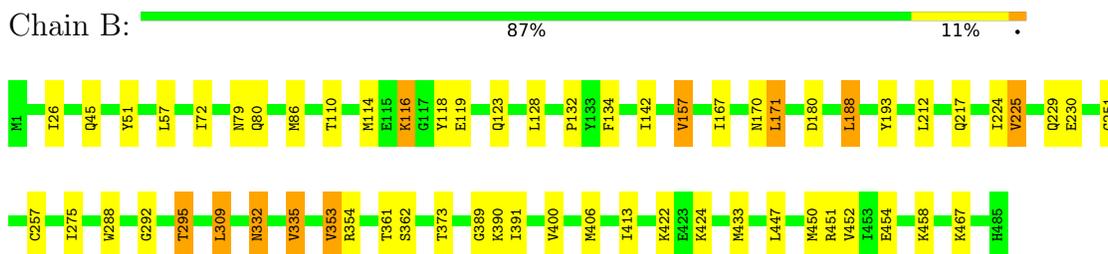
3 Residue-property plots [i](#)

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: glycerol kinase



- Molecule 2: glycerol kinase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	57.91Å 82.92Å 205.91Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.99 – 2.00 19.99 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.8 (19.99-2.00) 99.8 (19.99-2.00)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.58 (at 2.01Å)	Xtrriage
Refinement program	REFMAC 5.8.0103	Depositor
R, R_{free}	0.182 , 0.239 0.192 , 0.243	Depositor DCC
R_{free} test set	3500 reflections (5.16%)	wwPDB-VP
Wilson B-factor (Å ²)	38.6	Xtrriage
Anisotropy	0.055	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 28.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	7769	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.55% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: MES, EDO

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	1.08	2/3865 (0.1%)	1.10	2/5226 (0.0%)
2	B	1.15	2/3856 (0.1%)	1.13	8/5215 (0.2%)
All	All	1.11	4/7721 (0.1%)	1.11	10/10441 (0.1%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	293	LYS	CA-C	-5.46	1.46	1.52
1	A	157	VAL	CA-C	5.13	1.58	1.52
2	B	424	LYS	CA-C	5.13	1.59	1.52
2	B	79	ASN	C-O	5.12	1.30	1.23

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	390	LYS	N-CA-C	-6.83	100.32	110.23
2	B	157	VAL	CB-CA-C	6.15	117.27	110.62
2	B	362	SER	CB-CA-C	-6.11	100.66	110.79
2	B	157	VAL	N-CA-CB	-5.80	105.43	112.33
2	B	212	LEU	N-CA-C	5.45	116.69	109.93
1	A	290	ILE	CB-CA-C	-5.43	100.98	110.71
1	A	225	VAL	N-CA-CB	5.42	116.98	110.31
2	B	225	VAL	N-CA-CB	5.30	116.83	110.31
2	B	72	ILE	N-CA-CB	5.29	118.02	111.41
2	B	353	VAL	CB-CA-C	5.03	118.48	111.08

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3793	0	3795	26	0
2	B	3784	0	3786	26	0
3	A	12	0	13	0	0
3	B	12	0	13	0	0
4	A	4	0	6	0	0
4	B	4	0	6	0	0
5	A	67	0	0	0	0
5	B	93	0	0	3	0
All	All	7769	0	7619	50	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 3.

All (50) 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:45:GLN:HE22	2:B:80:GLN:HE22	1.20	0.89
1:A:45:GLN:HE22	1:A:80:GLN:HE22	1.27	0.80
1:A:433:MET:HE2	1:A:450:MET:CE	2.12	0.79
2:B:116:LYS:HG2	2:B:118:TYR:CZ	2.33	0.64
2:B:217:GLN:HE22	2:B:292:GLY:H	1.44	0.64
1:A:217:GLN:HE22	1:A:292:GLY:H	1.45	0.63
1:A:167:ILE:HG22	1:A:171:LEU:HD22	1.82	0.61
1:A:134:PHE:HB2	1:A:188:LEU:HD22	1.82	0.60
2:B:433:MET:HE2	2:B:450:MET:HE3	1.83	0.60
1:A:433:MET:HE2	1:A:450:MET:HE3	1.83	0.59
1:A:111:SER:HA	1:A:114[A]:MET:HE3	1.86	0.57
1:A:362:SER:CB	5:B:650:HOH:O	2.53	0.56
2:B:134:PHE:HB2	2:B:188:LEU:HD22	1.88	0.55
1:A:392:ASN:C	1:A:416:CYS:HB2	2.33	0.54
2:B:447:LEU:HA	2:B:450:MET:HE2	1.90	0.54
1:A:361:THR:HG22	2:B:354:ARG:HD2	1.89	0.53
1:A:362:SER:HB3	5:B:650:HOH:O	2.09	0.53
2:B:123[B]:GLN:HG2	2:B:128:LEU:O	2.08	0.53
2:B:167:ILE:HG22	2:B:171:LEU:HD22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:217:GLN:NE2	2:B:292:GLY:H	2.08	0.51
2:B:332:ASN:C	2:B:332:ASN:HD22	2.19	0.51
2:B:309:LEU:HD13	2:B:373:THR:CG2	2.41	0.51
2:B:86:MET:HE3	2:B:142:ILE:CD1	2.40	0.51
1:A:443:LYS:HA	1:A:443:LYS:HE2	1.92	0.50
1:A:400:VAL:HG22	1:A:406:MET:HE2	1.94	0.49
1:A:413:ILE:HD11	1:A:469:ILE:HG21	1.94	0.49
1:A:361:THR:CG2	2:B:354:ARG:HD2	2.44	0.48
2:B:193:TYR:CE1	2:B:275:ILE:HD12	2.49	0.48
1:A:90:ARG:HD3	1:A:157:VAL:HG21	1.97	0.46
2:B:86:MET:HE1	2:B:142:ILE:HB	1.98	0.46
2:B:110:THR:HG21	2:B:132:PRO:N	2.31	0.45
1:A:27:HIS:HE1	1:A:29:GLU:OE2	2.00	0.44
2:B:332:ASN:O	2:B:335:VAL:HG13	2.18	0.44
2:B:86:MET:HE3	2:B:142:ILE:HD13	2.00	0.43
2:B:45:GLN:NE2	2:B:80:GLN:HE22	2.02	0.43
2:B:309:LEU:HD13	2:B:373:THR:HG22	2.01	0.43
2:B:288:TRP:NE1	2:B:295:THR:HG23	2.34	0.43
1:A:362:SER:HB2	5:B:650:HOH:O	2.17	0.42
1:A:86:MET:CE	1:A:139:ILE:HA	2.50	0.42
2:B:86:MET:CE	2:B:142:ILE:HB	2.50	0.42
1:A:217:GLN:NE2	1:A:292:GLY:H	2.14	0.42
1:A:118:TYR:CE2	1:A:204:LYS:HE3	2.54	0.42
2:B:51:TYR:CZ	2:B:170:ASN:HB3	2.55	0.42
2:B:251:GLY:HA3	2:B:451:ARG:CZ	2.50	0.41
1:A:332:ASN:O	1:A:335:VAL:HG13	2.21	0.41
1:A:181:ILE:HG21	1:A:289:GLU:HB2	2.02	0.41
1:A:186:ARG:NH1	1:A:299:GLU:OE1	2.53	0.41
1:A:433:MET:CE	1:A:450:MET:HE3	2.50	0.40
2:B:114:MET:HB2	2:B:114:MET:HE2	1.86	0.40
1:A:22:LYS:HE2	1:A:22:LYS:HA	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	486/487 (100%)	471 (97%)	14 (3%)	1 (0%)	44	42
2	B	484/485 (100%)	474 (98%)	9 (2%)	1 (0%)	44	42
All	All	970/972 (100%)	945 (97%)	23 (2%)	2 (0%)	44	42

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	389	GLY
2	B	389	GLY

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	414/413 (100%)	380 (92%)	34 (8%)	9	6
2	B	413/412 (100%)	385 (93%)	28 (7%)	13	10
All	All	827/825 (100%)	765 (92%)	62 (8%)	11	7

All (62) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	LYS
1	A	24	GLN
1	A	26	ILE
1	A	57	LEU
1	A	89	LYS
1	A	119	GLU
1	A	147	GLU
1	A	150	LYS
1	A	157	VAL
1	A	171	LEU
1	A	188	LEU

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Mol	Chain	Res	Type
1	A	225	VAL
1	A	228	ILE
1	A	230	GLU
1	A	274	THR
1	A	276	LYS
1	A	280	LYS
1	A	290	ILE
1	A	309	LEU
1	A	326	LYS
1	A	327	ILE
1	A	335	VAL
1	A	353	VAL
1	A	356	ILE
1	A	371	ARG
1	A	400	VAL
1	A	413	ILE
1	A	422	LYS
1	A	424	LYS
1	A	442	PHE
1	A	443	LYS
1	A	452	VAL
1	A	454	GLU
1	A	458	LYS
2	B	26	ILE
2	B	57	LEU
2	B	116	LYS
2	B	119	GLU
2	B	157	VAL
2	B	171	LEU
2	B	180	ASP
2	B	188	LEU
2	B	224	ILE
2	B	225	VAL
2	B	229	GLN
2	B	230	GLU
2	B	257	CYS
2	B	295	THR
2	B	309	LEU
2	B	332	ASN
2	B	335	VAL
2	B	353	VAL
2	B	361	THR

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Mol	Chain	Res	Type
2	B	391	ILE
2	B	400	VAL
2	B	406	MET
2	B	413	ILE
2	B	422	LYS
2	B	452	VAL
2	B	454	GLU
2	B	458	LYS
2	B	467	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (17) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	27	HIS
1	A	45	GLN
1	A	68	ASN
1	A	170	ASN
1	A	217	GLN
1	A	322	ASN
1	A	455	HIS
1	A	468	GLN
2	B	45	GLN
2	B	79	ASN
2	B	170	ASN
2	B	183	ASN
2	B	217	GLN
2	B	232	ASN
2	B	322	ASN
2	B	332	ASN
2	B	468	GLN

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

4 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	MES	B	501	-	12,12,12	2.17	1 (8%)	14,16,16	2.30	4 (28%)
4	EDO	B	502	-	3,3,3	0.46	0	2,2,2	0.24	0
3	MES	A	501	-	12,12,12	2.25	2 (16%)	14,16,16	1.78	2 (14%)
4	EDO	A	502	-	3,3,3	0.43	0	2,2,2	0.15	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
3	MES	B	501	-	-	3/6/14/14	0/1/1/1
4	EDO	B	502	-	-	0/1/1/1	-
3	MES	A	501	-	-	0/6/14/14	0/1/1/1
4	EDO	A	502	-	-	0/1/1/1	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	501	MES	C8-S	-7.11	1.67	1.77
3	B	501	MES	C8-S	-7.02	1.67	1.77
3	A	501	MES	O2S-S	2.11	1.51	1.45

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	501	MES	O1S-S-C8	5.85	113.96	106.92
3	A	501	MES	O3S-S-C8	4.97	113.80	105.77
3	B	501	MES	C2-C3-N4	3.98	116.13	110.10
3	B	501	MES	O1-C2-C3	2.74	117.82	111.80
3	B	501	MES	O2S-S-C8	2.46	109.88	106.92
3	A	501	MES	O1S-S-C8	2.30	109.69	106.92

There are no chirality outliers.

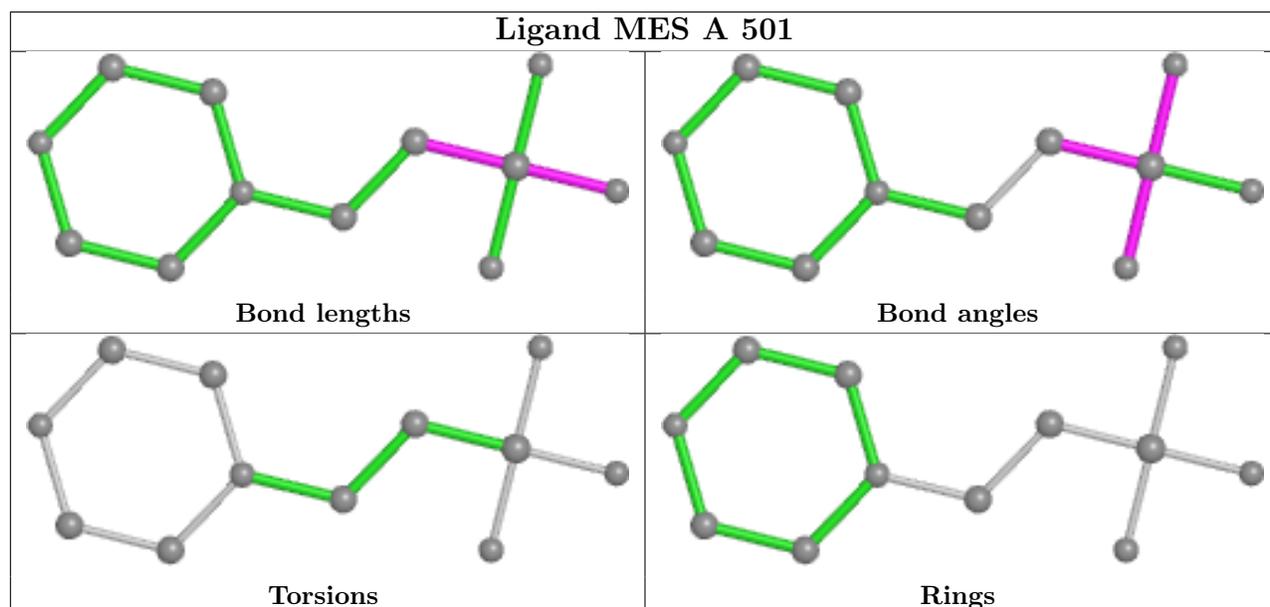
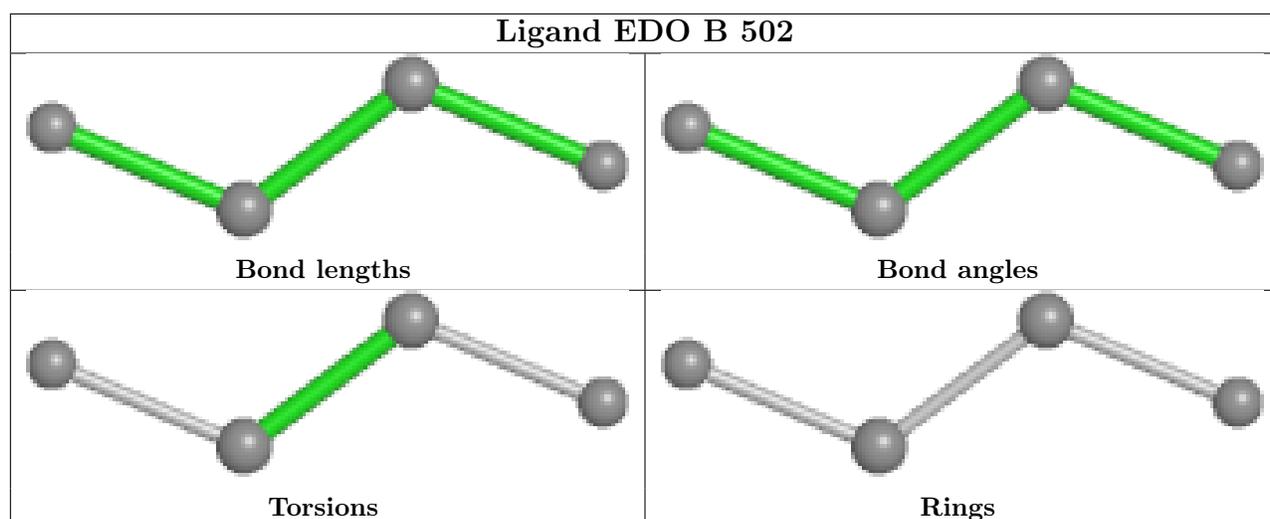
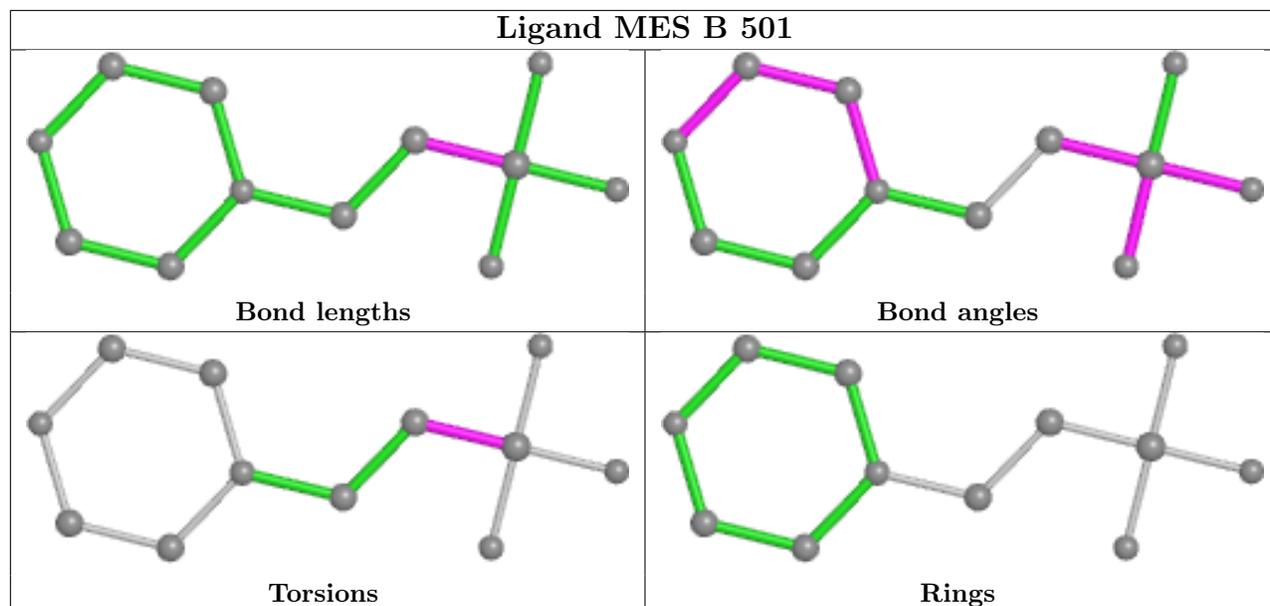
All (3) torsion outliers are listed below:

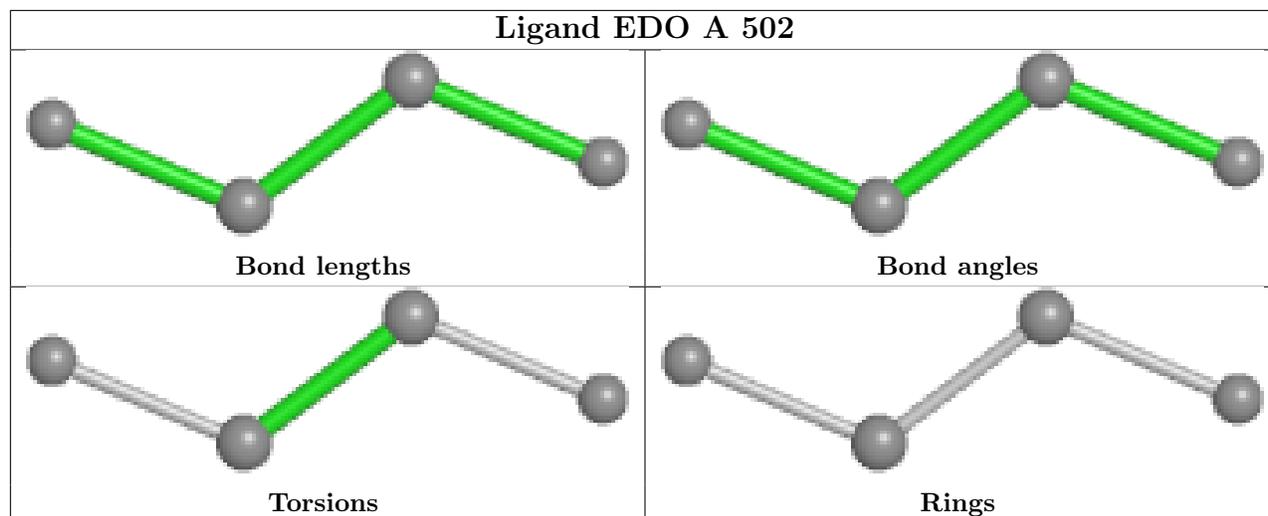
Mol	Chain	Res	Type	Atoms
3	B	501	MES	C7-C8-S-O3S
3	B	501	MES	C7-C8-S-O1S
3	B	501	MES	C7-C8-S-O2S

There are no ring outliers.

No monomer is involved in short contacts.

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





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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, 95th 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	487/487 (100%)	-0.30	0 100 100	29, 45, 69, 107	1 (0%)
2	B	485/485 (100%)	-0.45	0 100 100	23, 40, 63, 92	1 (0%)
All	All	972/972 (100%)	-0.38	0 100 100	23, 43, 67, 107	2 (0%)

There are no RSRZ outliers to report.

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

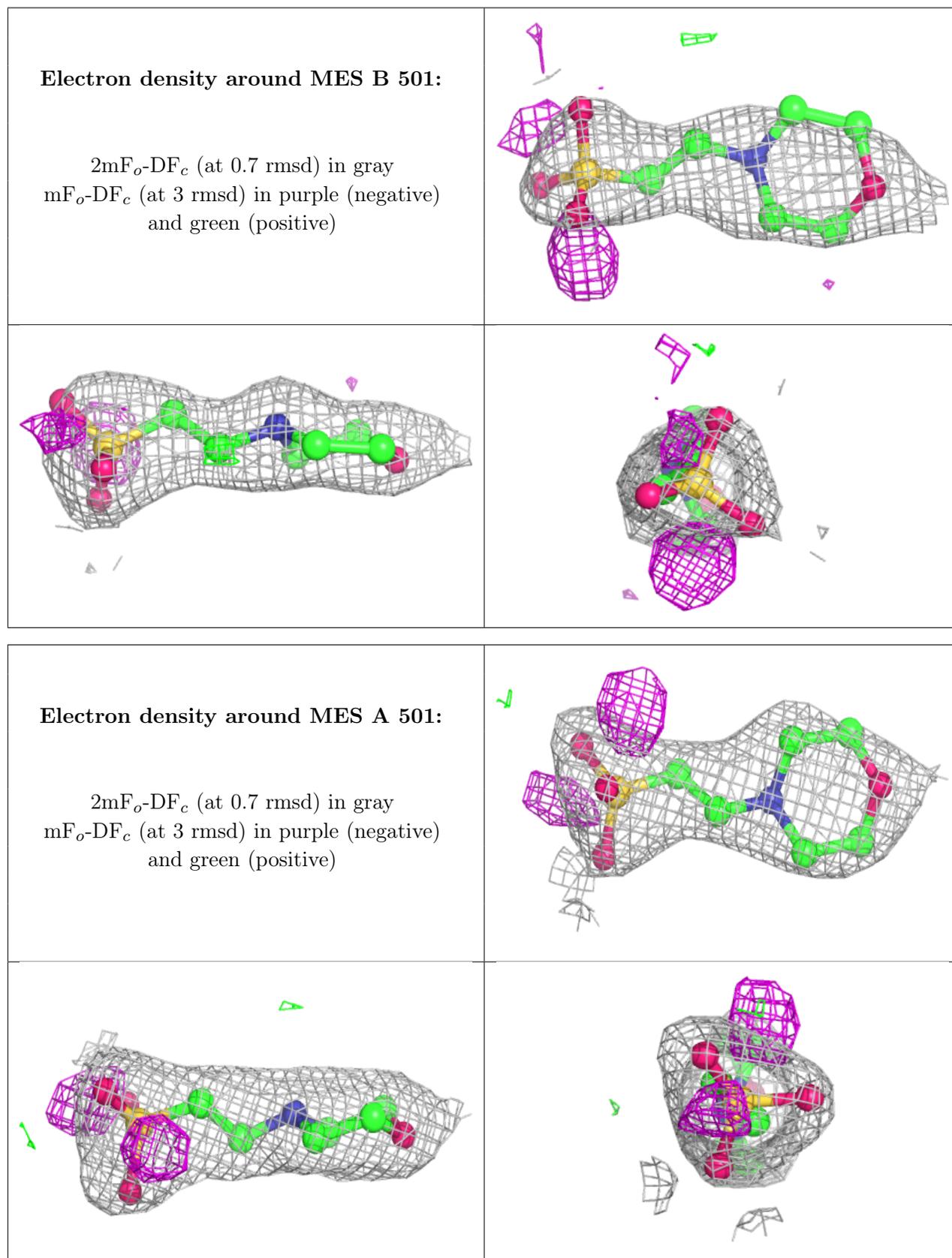
6.4 Ligands [i](#)

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, 95th 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
3	MES	B	501	12/12	0.83	0.15	79,82,87,88	0
3	MES	A	501	12/12	0.89	0.11	52,61,68,69	0
4	EDO	A	502	4/4	0.97	0.05	33,33,35,38	0
4	EDO	B	502	4/4	0.97	0.06	25,27,27,29	0

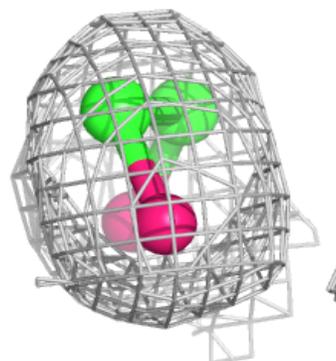
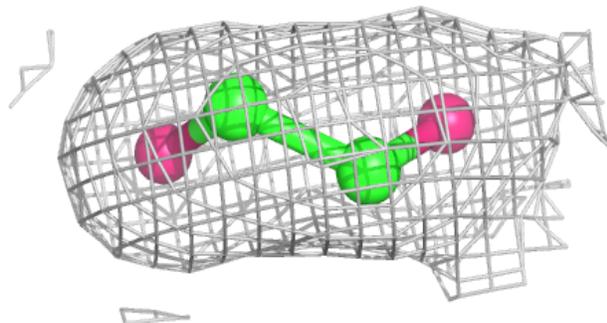
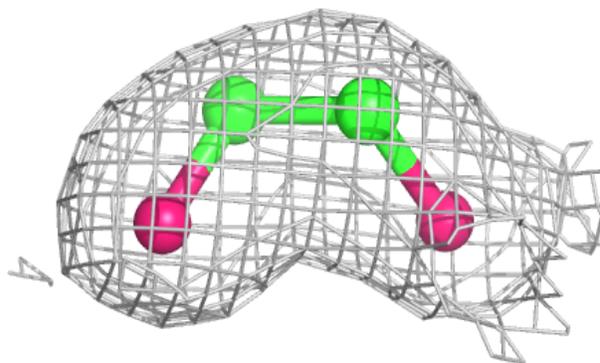
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers

as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

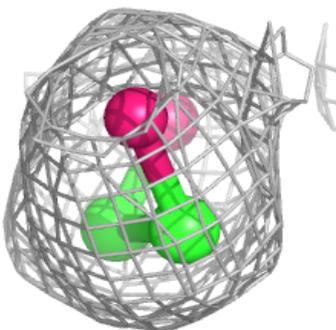
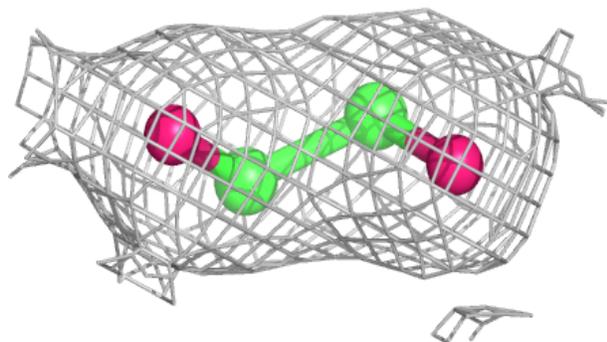
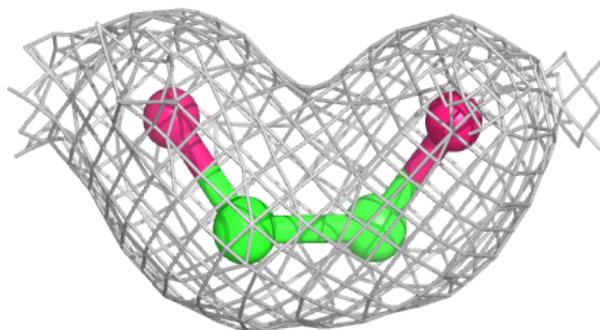


Electron density around EDO A 502:

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

**Electron density around EDO B 502:**

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



6.5 Other polymers [i](#)

There are no such residues in this entry.