



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 06:56 AM UTC

PDB ID : 6GSO / pdb_00006gso
Title : Sulfolobus solfataricus 2-keto-3-deoxygluconate aldolase Y132V,T157C variant
Authors : Crennell, S.J.; Danson, M.J.; Royer, S.
Deposited on : 2018-06-15
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 : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
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) : 2.49

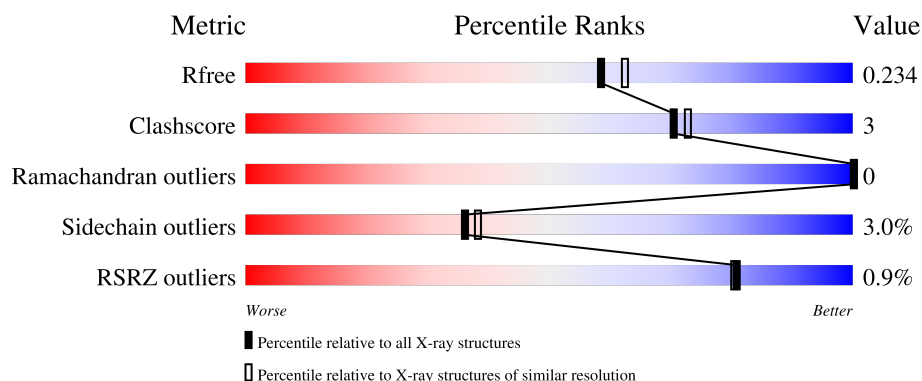
1 Overall quality at a glance

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}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (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	293	2% 93% 6%
1	B	293	% 89% 10%
1	C	293	88% 12%
1	D	293	% 92% 7%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 19610 atoms, of which 9652 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 2-dehydro-3-deoxy-phosphogluconate/2-dehydro-3-deoxy-6-phosphogalactonate aldolase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	293	Total	C	H	N	O	S	0	2	0
			4739	1506	2405	381	439	8			
1	B	293	Total	C	H	N	O	S	0	2	0
			4739	1506	2405	381	439	8			
1	C	293	Total	C	H	N	O	S	0	2	0
			4737	1506	2403	381	439	8			
1	D	293	Total	C	H	N	O	S	0	2	0
			4739	1506	2405	381	439	8			

There are 8 discrepancies between the modelled and reference sequences:

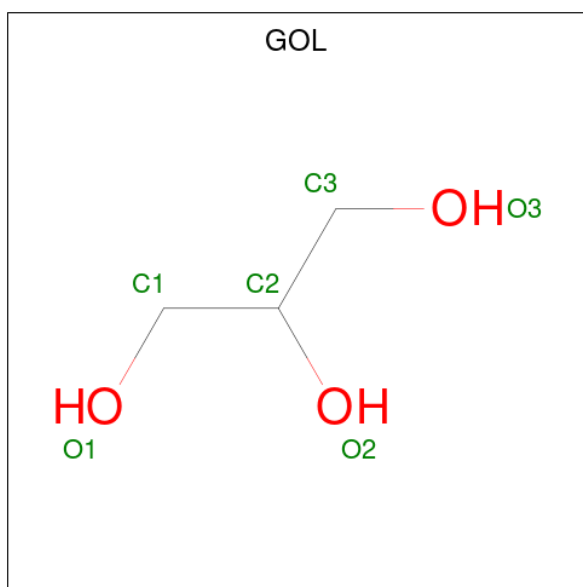
Chain	Residue	Modelled	Actual	Comment	Reference
A	132	VAL	TYR	engineered mutation	UNP O54288
A	157	CYS	THR	engineered mutation	UNP O54288
B	132	VAL	TYR	engineered mutation	UNP O54288
B	157	CYS	THR	engineered mutation	UNP O54288
C	132	VAL	TYR	engineered mutation	UNP O54288
C	157	CYS	THR	engineered mutation	UNP O54288
D	132	VAL	TYR	engineered mutation	UNP O54288
D	157	CYS	THR	engineered mutation	UNP O54288

- Molecule 2 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	C	1	Total	C	H	O	0	0
			10	2	6	2		
2	D	1	Total	C	H	O	0	0
			10	2	6	2		
2	D	1	Total	C	H	O	0	0
			10	2	6	2		

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	D	1	Total	C	H	O	0	0
			14	3	8	3		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	D	1	Total	C	H	O	0	0
			14	3	8	3		

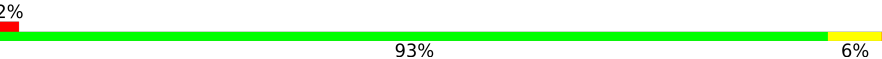
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	147	Total	O	0	0
			147	147		
4	B	113	Total	O	0	0
			113	113		
4	C	168	Total	O	0	0
			168	168		
4	D	170	Total	O	0	0
			170	170		

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.

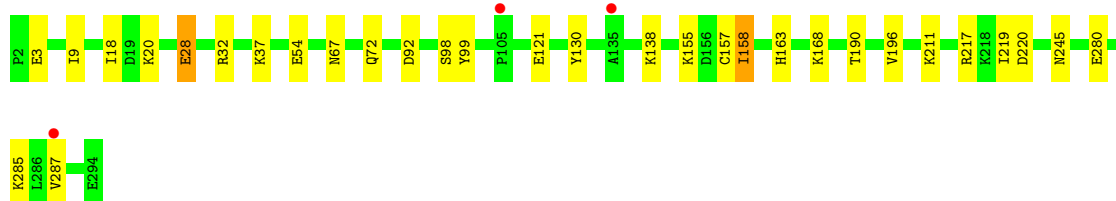
- Molecule 1: 2-dehydro-3-deoxy-phosphogluconate/2-dehydro-3-deoxy-6-phosphogalactonate aldolase

Chain A: 



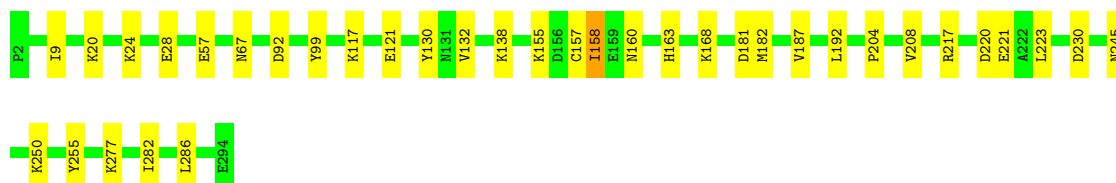
- Molecule 1: 2-dehydro-3-deoxy-phosphogluconate/2-dehydro-3-deoxy-6-phosphogalactonate aldolase

Chain B: 

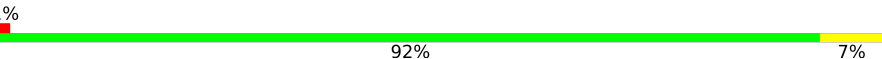


- Molecule 1: 2-dehydro-3-deoxy-phosphogluconate/2-dehydro-3-deoxy-6-phosphogalactonate aldolase

Chain C: 



- Molecule 1: 2-dehydro-3-deoxy-phosphogluconate/2-dehydro-3-deoxy-6-phosphogalactonate aldolase

Chain D: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	57.02Å 144.62Å 161.49Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	80.74 – 2.00 80.74 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.2 (80.74-2.00) 99.1 (80.74-2.00)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.28 (at 2.00Å)	Xtriage
Refinement program	PHENIX (1.12_2829: ???)	Depositor
R, R_{free}	0.182 , 0.236 0.186 , 0.234	Depositor DCC
R_{free} test set	4512 reflections (4.81%)	wwPDB-VP
Wilson B-factor (Å ²)	31.9	Xtriage
Anisotropy	0.675	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.42 , 46.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	19610	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.49% 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: GOL, 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	0.50	0/2379	0.63	0/3216
1	B	0.46	0/2379	0.58	0/3216
1	C	0.55	0/2379	0.67	0/3216
1	D	0.54	0/2379	0.64	0/3216
All	All	0.51	0/9516	0.63	0/12864

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 [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	2334	2405	2402	13	1
1	B	2334	2405	2402	14	0
1	C	2334	2403	2402	23	0
1	D	2334	2405	2402	17	1
2	C	4	6	6	0	0
2	D	8	12	12	0	0
3	D	12	16	16	3	0
4	A	147	0	0	2	1
4	B	113	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	C	168	0	0	2	0
4	D	170	0	0	4	1
All	All	9958	9652	9642	65	2

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 (65) 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)
1:C:155:LYS:NZ	1:C:157:CYS:SG	2.26	1.06
1:B:155:LYS:NZ	1:B:157:CYS:SG	2.30	1.02
1:D:155:LYS:NZ	1:D:157:CYS:SG	2.40	0.94
1:A:155:LYS:NZ	1:A:157:CYS:SG	2.43	0.90
1:A:231:GLU:OE1	4:A:301:HOH:O	1.93	0.85
1:A:285:LYS:NZ	4:A:302:HOH:O	2.18	0.77
1:A:155:LYS:CE	1:A:157:CYS:SG	2.88	0.62
1:B:121:GLU:OE1	4:B:301:HOH:O	2.16	0.61
1:D:155:LYS:CE	1:D:157:CYS:SG	2.91	0.59
1:D:3:GLU:OE2	4:D:401:HOH:O	2.17	0.59
1:D:273:ARG:NH2	4:D:405:HOH:O	2.31	0.54
1:C:221:GLU:OE1	4:C:401:HOH:O	2.18	0.54
1:C:130:TYR:HE1	1:C:155:LYS:HZ1	1.56	0.53
1:D:240:GLY:HA3	3:D:301:GOL:H2	1.90	0.53
1:C:155:LYS:NZ	1:C:157:CYS:HG	2.06	0.52
1:C:67:ASN:HB2	1:C:92:ASP:O	2.10	0.52
1:A:133:PRO:HG2	1:A:158:ILE:HD13	1.92	0.52
1:C:187:VAL:HG13	1:C:192:LEU:HB2	1.93	0.51
1:A:155:LYS:HD2	1:A:196:VAL:HG11	1.93	0.50
1:B:67:ASN:HB2	1:B:92:ASP:O	2.10	0.50
1:B:190:THR:O	1:C:223:LEU:HD11	2.12	0.50
1:C:182:MET:HE3	1:C:230:ASP:CG	2.37	0.49
1:C:155:LYS:CE	1:C:157:CYS:SG	3.01	0.49
1:D:293:LYS:CD	1:D:293:LYS:N	2.75	0.48
1:D:67:ASN:HB2	1:D:92:ASP:O	2.12	0.48
1:C:24:LYS:O	1:C:28:GLU:HG2	2.14	0.47
1:B:130:TYR:HE1	1:B:155:LYS:HZ2	1.63	0.47
1:D:132:VAL:HG23	1:D:136:THR:HG23	1.96	0.46
1:B:28:GLU:HG2	1:B:32:ARG:HH21	1.81	0.46
1:D:132:VAL:HG12	1:D:157:CYS:HB2	1.97	0.46
1:C:250:LYS:HA	1:C:255:TYR:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:282:ILE:O	1:C:286:LEU:HG	2.17	0.45
1:D:20:LYS:HD3	4:D:421:HOH:O	2.15	0.45
1:A:251:TYR:CE1	1:A:276:ILE:HG23	2.52	0.45
1:A:238:ILE:HD13	1:A:278:LYS:HE2	1.98	0.45
1:A:130:TYR:HE1	1:A:155:LYS:HZ2	1.61	0.44
1:D:168:LYS:NZ	1:D:193:ASP:OD2	2.49	0.44
1:C:182:MET:HG2	1:C:230:ASP:OD1	2.17	0.44
1:C:204:PRO:O	1:C:208:VAL:HG23	2.17	0.44
1:A:133:PRO:HG2	1:A:158:ILE:CD1	2.46	0.44
1:C:160:ASN:N	4:C:420:HOH:O	2.50	0.44
1:C:130:TYR:HE1	1:C:155:LYS:NZ	2.16	0.44
1:B:217:ARG:NH1	1:C:217:ARG:HH11	2.16	0.44
1:D:57:GLU:HG2	4:D:566:HOH:O	2.18	0.44
1:D:130:TYR:HE1	1:D:155:LYS:CE	2.31	0.43
1:B:158:ILE:HG21	1:B:163:HIS:ND1	2.33	0.43
1:D:2:PRO:N	3:D:302:GOL:H12	2.33	0.43
1:C:117:LYS:O	1:C:121:GLU:HG3	2.18	0.43
1:C:130:TYR:HE1	1:C:155:LYS:CE	2.32	0.43
1:A:274:GLN:O	1:A:278:LYS:HG3	2.18	0.43
1:D:130:TYR:HE1	1:D:155:LYS:HE3	1.83	0.42
1:C:9:ILE:HD11	1:C:245:ASN:HB3	2.01	0.42
1:B:155:LYS:HD2	1:B:196:VAL:HG11	2.02	0.42
1:B:72:GLN:OE1	1:B:98:SER:HA	2.20	0.42
1:D:251:TYR:CE1	1:D:276:ILE:HG23	2.55	0.42
1:D:240:GLY:CA	3:D:301:GOL:H2	2.50	0.41
1:C:158:ILE:HG21	1:C:163:HIS:CG	2.55	0.41
1:A:187:VAL:HG13	1:A:192:LEU:HB2	2.03	0.41
1:A:146:LYS:HE2	1:A:170:LEU:O	2.20	0.41
1:C:20:LYS:HE3	1:C:57:GLU:OE2	2.20	0.41
1:B:3:GLU:OE1	1:B:37:LYS:HE3	2.21	0.41
1:B:18:ILE:HD11	1:B:54:GLU:HB3	2.03	0.41
1:C:130:TYR:CE1	1:C:155:LYS:NZ	2.89	0.41
1:B:155:LYS:CE	1:B:157:CYS:SG	3.08	0.41
1:B:9:ILE:HD11	1:B:245:ASN:HB3	2.03	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:427:HOH:O	4:D:484:HOH:O[3_545]	2.15	0.05
1:A:90:ASP:OD2	1:D:24:LYS:HZ3[3_545]	1.57	0.03

5.3 Torsion angles

5.3.1 Protein backbone

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	293/293 (100%)	283 (97%)	10 (3%)	0	100	100
1	B	293/293 (100%)	282 (96%)	11 (4%)	0	100	100
1	C	293/293 (100%)	289 (99%)	4 (1%)	0	100	100
1	D	293/293 (100%)	285 (97%)	8 (3%)	0	100	100
All	All	1172/1172 (100%)	1139 (97%)	33 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	260/258 (101%)	255 (98%)	5 (2%)	50	56
1	B	260/258 (101%)	248 (95%)	12 (5%)	24	22
1	C	260/258 (101%)	252 (97%)	8 (3%)	35	37
1	D	260/258 (101%)	254 (98%)	6 (2%)	44	49
All	All	1040/1032 (101%)	1009 (97%)	31 (3%)	36	38

All (31) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	28	GLU
1	A	99	TYR

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Mol	Chain	Res	Type
1	A	138	LYS
1	A	155	LYS
1	A	158	ILE
1	B	20	LYS
1	B	28	GLU
1	B	99	TYR
1	B	138	LYS
1	B	158	ILE
1	B	168	LYS
1	B	211	LYS
1	B	219	ILE
1	B	220	ASP
1	B	280	GLU
1	B	285	LYS
1	B	287	VAL
1	C	99	TYR
1	C	132	VAL
1	C	138	LYS
1	C	158	ILE
1	C	168	LYS
1	C	181	ASP
1	C	220	ASP
1	C	277	LYS
1	D	99	TYR
1	D	138	LYS
1	D	158	ILE
1	D	168	LYS
1	D	211	LYS
1	D	293	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	58	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

5 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	GOL	D	302	-	5,5,5	1.53	1 (20%)	5,5,5	0.65	0
2	EDO	D	304	-	3,3,3	0.44	0	2,2,2	0.32	0
3	GOL	D	301	-	5,5,5	0.80	0	5,5,5	1.41	1 (20%)
2	EDO	D	303	-	3,3,3	0.28	0	2,2,2	0.59	0
2	EDO	C	301	-	3,3,3	0.34	0	2,2,2	0.61	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	GOL	D	302	-	-	0/4/4/4	-
2	EDO	D	304	-	-	0/1/1/1	-
3	GOL	D	301	-	-	2/4/4/4	-
2	EDO	D	303	-	-	0/1/1/1	-
2	EDO	C	301	-	-	0/1/1/1	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	302	GOL	O2-C2	-2.11	1.37	1.43

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	301	GOL	O3-C3-C2	-2.02	101.27	110.38

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	D	301	GOL	C1-C2-C3-O3
3	D	301	GOL	O2-C2-C3-O3

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	302	GOL	1	0
3	D	301	GOL	2	0

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	293/293 (100%)	0.11	6 (2%) 65 64	21, 43, 82, 135	2 (0%)
1	B	293/293 (100%)	0.21	3 (1%) 79 79	22, 48, 77, 108	2 (0%)
1	C	293/293 (100%)	-0.17	0 100 100	21, 39, 68, 102	2 (0%)
1	D	293/293 (100%)	-0.18	2 (0%) 84 84	21, 39, 67, 118	2 (0%)
All	All	1172/1172 (100%)	-0.01	11 (0%) 81 80	21, 42, 74, 135	8 (0%)

All (11) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	287	VAL	2.7
1	D	287	VAL	2.6
1	A	134	THR	2.5
1	A	287	VAL	2.4
1	A	215[A]	MET	2.4
1	D	105	PRO	2.3
1	A	293	LYS	2.3
1	A	103	TYR	2.2
1	B	135	ALA	2.1
1	B	105	PRO	2.1
1	A	292	LEU	2.0

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

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($\text{\AA}^2$)	Q<0.9
3	GOL	D	302	6/6	0.79	0.14	57,69,107,107	0
2	EDO	D	303	4/4	0.87	0.17	50,60,99,99	0
2	EDO	D	304	4/4	0.88	0.21	53,70,112,112	0
2	EDO	C	301	4/4	0.88	0.19	55,89,115,115	0
3	GOL	D	301	6/6	0.89	0.14	35,53,63,65	0

6.5 Other polymers

There are no such residues in this entry.