



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 15, 2024 – 06:32 AM EST

PDB ID : 3O4P
Title : DFPase at 0.85 Angstrom resolution (H atoms included)
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Deposited on : 2010-07-27
Resolution : 0.85 Å(reported)

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

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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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

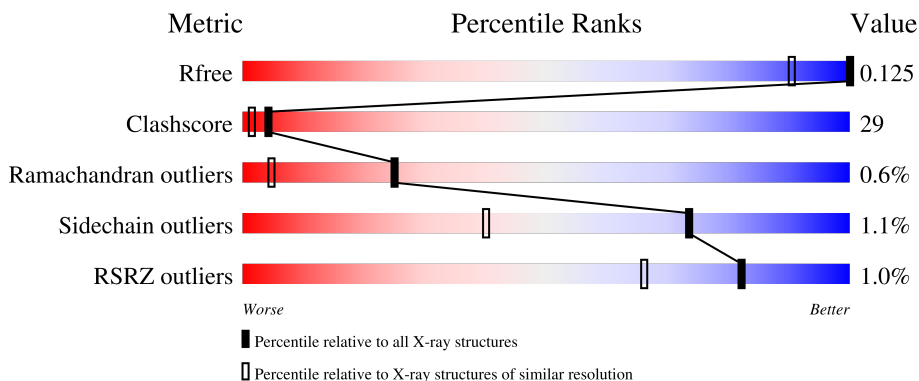
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 0.85 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	1071 (1.04-0.70)
Clashscore	141614	1143 (1.04-0.68)
Ramachandran outliers	138981	1065 (1.04-0.68)
Sidechain outliers	138945	1066 (1.04-0.68)
RSRZ outliers	127900	1038 (1.04-0.70)

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	314	

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
2	GOL	A	401	-	X	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	MES	A	411	-	-	X	-
3	MES	A	412	-	-	X	-
4	EDO	A	423	-	-	X	-
4	EDO	A	425	-	-	X	-
4	EDO	A	427	-	-	X	-
5	PGE	A	434	-	X	X	-
6	DXE	A	443	-	-	X	-
7	MXE	A	451	-	X	X	-
7	MXE	A	452	-	-	X	-
8	PEG	A	461	-	X	X	-
9	ME2	A	471	-	-	X	-

2 Entry composition [i](#)

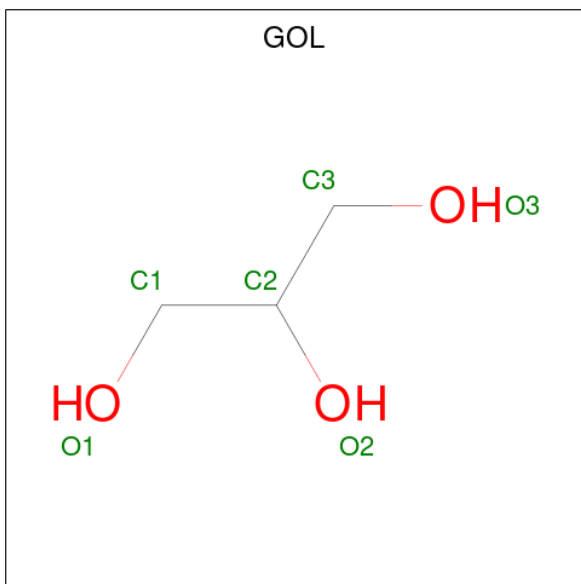
There are 11 unique types of molecules in this entry. The entry contains 5370 atoms, of which 2096 are hydrogens and 0 are deuteriums.

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 Diisopropyl-fluorophosphatase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	314	4722	1688	2065	456	495	18	0	46	0

- Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



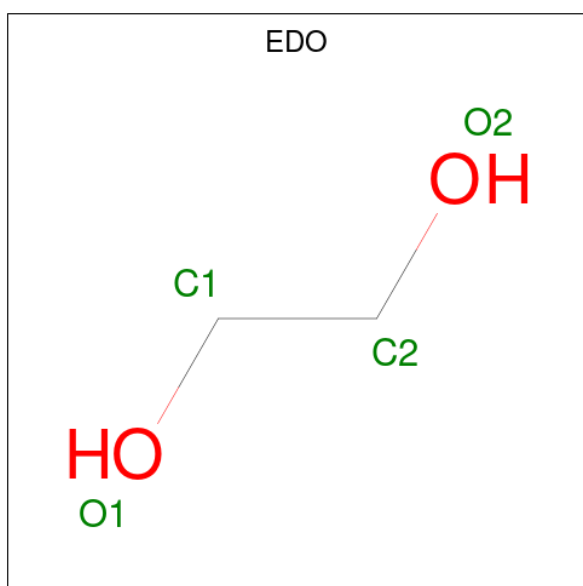
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	6	3	3	0	0
2	A	1	6	3	3	0	0

- Molecule 3 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (three-letter code: MES) (formula: C₆H₁₃NO₄S).



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

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



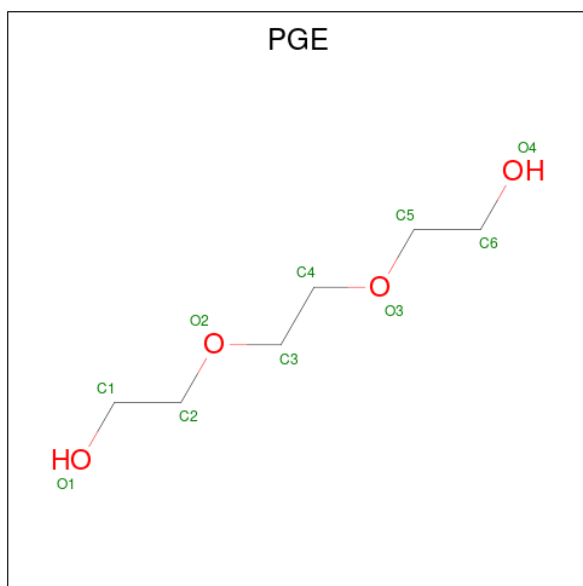
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		

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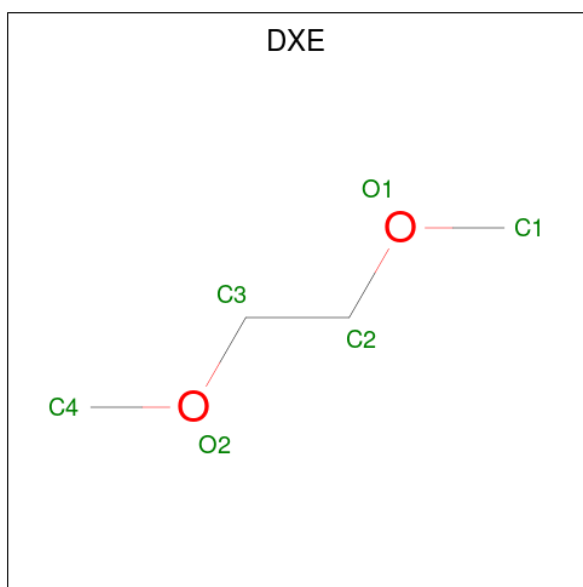
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 4 2 2	0	0
4	A	1	Total C O 4 2 2	0	0
4	A	1	Total C O 4 2 2	0	0
4	A	1	Total C O 4 2 2	0	0
4	A	1	Total C O 4 2 2	0	0
4	A	1	Total C O 4 2 2	0	0

- Molecule 5 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: C₆H₁₄O₄).



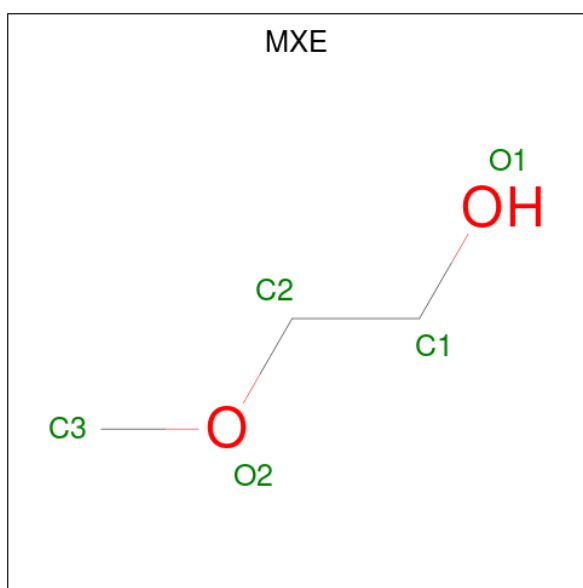
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 10 6 4	0	0
5	A	1	Total C O 10 6 4	0	0

- Molecule 6 is 1,2-DIMETHOXYETHANE (three-letter code: DXE) (formula: C₄H₁₀O₂).



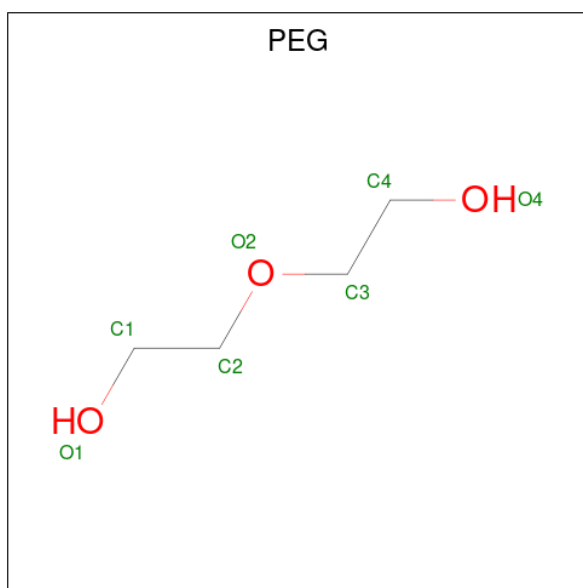
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			6	4	2		
6	A	1	Total	C	O	0	0
			6	4	2		

- Molecule 7 is 2-METHOXYETHANOL (three-letter code: MXE) (formula: $C_3H_8O_2$).



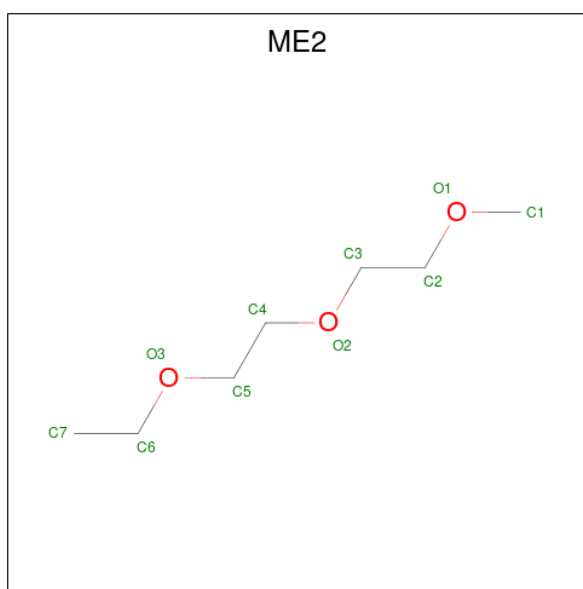
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	A	1	Total	C	O	0	0
			5	3	2		
7	A	1	Total	C	O	0	0
			5	3	2		

- Molecule 8 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



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

- Molecule 9 is 1-ETHOXY-2-(2-METHOXYETHOXY)ETHANE (three-letter code: ME2) (formula: $C_7H_{16}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
9	A	1	Total	C	O	0	0
			10	7	3		

- Molecule 10 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	A	2	Total	Ca	0	0
			2	2		

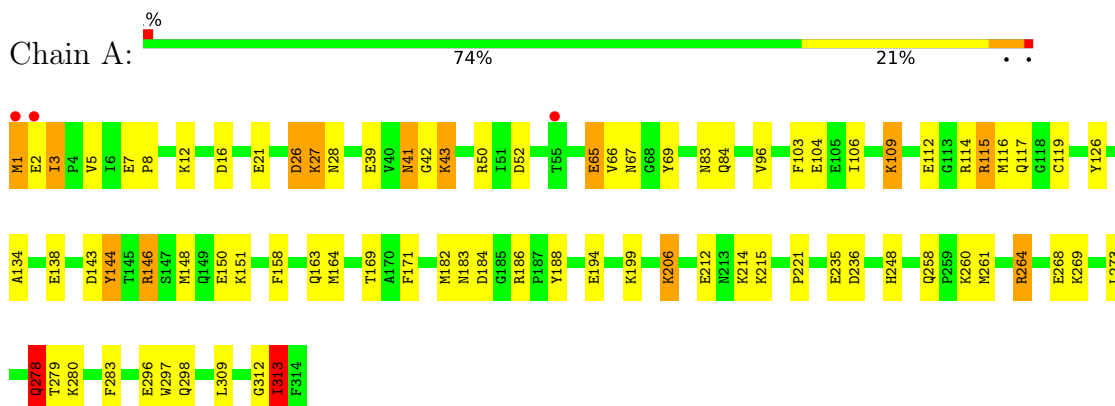
- Molecule 11 is water.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
11	A	466	Total	H	O	0	15
			512	31	481		

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: Diisopropyl-fluorophosphatase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	43.11Å 81.85Å 86.47Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.80 – 0.85 20.92 – 0.83	Depositor EDS
% Data completeness (in resolution range)	(Not available) (20.80-0.85) 86.3 (20.92-0.83)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.52 (at 0.83Å)	Xtrriage
Refinement program	MoPro	Depositor
R, R_{free}	0.103 , 0.121 0.110 , 0.125	Depositor DCC
R_{free} test set	2584 reflections (1.01%)	wwPDB-VP
Wilson B-factor (Å ²)	6.3	Xtrriage
Anisotropy	0.012	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 88.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.99	EDS
Total number of atoms	5370	wwPDB-VP
Average B, all atoms (Å ²)	11.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.50% 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: ME2, MES, CA, MXE, PGE, GOL, EDO, PEG, DXE

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	1.59	37/2949 (1.3%)	1.67	53/3975 (1.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

The worst 5 of 37 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	264	ARG	NE-CZ	-22.21	1.04	1.33
1	A	278	GLN	CD-OE1	19.77	1.67	1.24
1	A	39	GLU	CD-OE1	19.76	1.47	1.25
1	A	41	ASN	CB-CG	17.99	1.92	1.51
1	A	41	ASN	CG-OD1	17.60	1.62	1.24

The worst 5 of 53 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	264	ARG	NE-CZ-NH1	24.49	132.54	120.30
1	A	186[A]	ARG	NE-CZ-NH2	18.20	129.40	120.30
1	A	186[B]	ARG	NE-CZ-NH2	18.20	129.40	120.30
1	A	43	LYS	CG-CD-CE	16.62	161.75	111.90
1	A	115[A]	ARG	CD-NE-CZ	15.70	145.57	123.60

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	278	GLN	Sidechain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2657	2065	2566	135	0
2	A	12	0	9	0	0
3	A	24	0	26	16	0
4	A	32	0	48	30	0
5	A	20	0	28	15	0
6	A	12	0	20	12	0
7	A	10	0	16	22	0
8	A	14	0	20	7	0
9	A	10	0	16	9	0
10	A	2	0	0	0	0
11	A	481	31	0	38	0
All	All	3274	2096	2749	166	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 29.

The worst 5 of 166 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:A:109:LYS:CD	1:A:109:LYS:CE	1.81	1.58
1:A:41:ASN:CA	1:A:41:ASN:CB	1.74	1.57
1:A:43:LYS:CE	1:A:43:LYS:NZ	1.68	1.55
1:A:41:ASN:CB	1:A:41:ASN:CG	1.92	1.38
1:A:43:LYS:NZ	3:A:411:MES:H31	1.34	1.38

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	360/314 (115%)	343 (95%)	13 (4%)	4 (1%)	14 2

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	3[A]	ILE
1	A	3[B]	ILE
1	A	313[A]	ILE
1	A	313[B]	ILE

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	307/263 (117%)	302 (98%)	5 (2%)	62 27

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	21	GLU
1	A	206[A]	LYS
1	A	206[B]	LYS
1	A	313[A]	ILE
1	A	313[B]	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	41	ASN
1	A	83	ASN
1	A	258	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 23 ligands modelled in this entry, 2 are monoatomic - leaving 21 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
4	EDO	A	428	-	3,3,3	0.92	0	2,2,2	0.42	0
4	EDO	A	422	-	3,3,3	0.65	0	2,2,2	2.49	2 (100%)
4	EDO	A	426	-	3,3,3	1.21	0	2,2,2	0.60	0
4	EDO	A	423	-	3,3,3	0.89	0	2,2,2	1.88	1 (50%)
7	MXE	A	452	-	4,4,4	0.47	0	3,3,3	3.48	2 (66%)
4	EDO	A	421	-	3,3,3	0.56	0	2,2,2	0.60	0
5	PGE	A	433	-	9,9,9	0.99	0	8,8,8	1.77	3 (37%)
3	MES	A	411	-	12,12,12	2.35	5 (41%)	14,16,16	4.39	9 (64%)
4	EDO	A	425	-	3,3,3	0.76	0	2,2,2	0.77	0
6	DXE	A	442	-	5,5,5	0.56	0	4,4,4	2.96	3 (75%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	GOL	A	403	-	5,5,5	3.66	4 (80%)	5,5,5	1.09	1 (20%)
5	PGE	A	434	-	9,9,9	1.07	0	8,8,8	2.21	5 (62%)
4	EDO	A	424	-	3,3,3	0.95	0	2,2,2	0.07	0
6	DXE	A	443	-	5,5,5	0.68	0	4,4,4	1.75	1 (25%)
2	GOL	A	401	-	5,5,5	4.00	3 (60%)	5,5,5	2.47	2 (40%)
8	PEG	A	462	-	6,6,6	1.17	0	5,5,5	2.09	1 (20%)
8	PEG	A	461	-	6,6,6	0.70	0	5,5,5	3.34	4 (80%)
4	EDO	A	427	-	3,3,3	0.52	0	2,2,2	1.97	1 (50%)
3	MES	A	412	-	12,12,12	1.73	4 (33%)	14,16,16	2.55	7 (50%)
9	ME2	A	471	-	9,9,9	0.96	0	8,8,8	1.07	1 (12%)
7	MXE	A	451	-	4,4,4	0.90	0	3,3,3	4.75	2 (66%)

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
4	EDO	A	428	-	-	0/1/1/1	-
4	EDO	A	422	-	-	0/1/1/1	-
4	EDO	A	426	-	-	0/1/1/1	-
4	EDO	A	423	-	-	1/1/1/1	-
7	MXE	A	452	-	-	1/2/2/2	-
4	EDO	A	421	-	-	0/1/1/1	-
5	PGE	A	433	-	-	6/7/7/7	-
3	MES	A	411	-	-	0/6/14/14	0/1/1/1
4	EDO	A	425	-	-	1/1/1/1	-
6	DXE	A	442	-	-	1/3/3/3	-
2	GOL	A	403	-	-	0/4/4/4	-
5	PGE	A	434	-	-	7/7/7/7	-
4	EDO	A	424	-	-	0/1/1/1	-
6	DXE	A	443	-	-	2/3/3/3	-
2	GOL	A	401	-	-	2/4/4/4	-
8	PEG	A	462	-	-	3/4/4/4	-
8	PEG	A	461	-	-	2/4/4/4	-
4	EDO	A	427	-	-	1/1/1/1	-
3	MES	A	412	-	-	0/6/14/14	0/1/1/1
9	ME2	A	471	-	-	6/7/7/7	-
7	MXE	A	451	-	-	2/2/2/2	-

The worst 5 of 16 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	GOL	C3-C2	-7.47	1.21	1.51
2	A	403	GOL	C3-C2	-6.45	1.25	1.51
3	A	411	MES	O2S-S	4.33	1.57	1.45
3	A	411	MES	C8-S	3.95	1.83	1.77
3	A	412	MES	C5-N4	3.61	1.56	1.46

The worst 5 of 45 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	411	MES	O1S-S-C8	-8.88	96.23	106.92
3	A	411	MES	O3S-S-O1S	8.40	131.79	111.27
7	A	451	MXE	C3-O2-C2	6.69	154.61	112.96
3	A	411	MES	O3S-S-C8	-6.66	95.00	105.77
3	A	412	MES	C2-C3-N4	-5.55	101.69	110.10

There are no chirality outliers.

5 of 35 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401	GOL	O1-C1-C2-C3
8	A	462	PEG	C1-C2-O2-C3
9	A	471	ME2	C2-C3-O2-C4
5	A	434	PGE	C6-C5-O3-C4
6	A	442	DXE	O1-C2-C3-O2

There are no ring outliers.

19 monomers are involved in 108 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	428	EDO	2	0
4	A	422	EDO	3	0
4	A	426	EDO	1	0
4	A	423	EDO	4	0
7	A	452	MXE	18	0
4	A	421	EDO	2	0
5	A	433	PGE	5	0
3	A	411	MES	10	0
4	A	425	EDO	5	0
6	A	442	DXE	1	0
5	A	434	PGE	10	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	424	EDO	2	0
6	A	443	DXE	11	0
8	A	462	PEG	2	0
8	A	461	PEG	5	0
4	A	427	EDO	11	0
3	A	412	MES	6	0
9	A	471	ME2	9	0
7	A	451	MXE	4	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	314/314 (100%)	-0.18	3 (0%) 82 66	4, 8, 18, 41	21 (6%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1[A]	MET	7.9
1	A	2[A]	GLU	4.5
1	A	55	THR	2.3

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 monosaccharides 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
8	PEG	A	462	7/7	0.54	0.31	37,40,48,52	7
6	DXE	A	442	6/6	0.64	0.25	15,30,31,34	6
4	EDO	A	428	4/4	0.69	0.22	55,65,74,77	0
4	EDO	A	423	4/4	0.75	0.18	18,30,30,43	4

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
8	PEG	A	461	7/7	0.76	0.21	24,37,52,52	7
4	EDO	A	426	4/4	0.81	0.17	22,22,29,54	4
5	PGE	A	433	10/10	0.82	0.20	16,25,30,30	10
3	MES	A	411	12/12	0.82	0.21	10,24,31,32	12
9	ME2	A	471	10/10	0.83	0.24	22,33,40,41	10
3	MES	A	412	12/12	0.84	0.23	16,33,43,44	12
4	EDO	A	421	4/4	0.84	0.12	24,26,32,34	4
7	MXE	A	451	5/5	0.86	0.15	13,15,24,24	5
6	DXE	A	443	6/6	0.86	0.26	22,40,44,49	5
4	EDO	A	425	4/4	0.88	0.13	22,24,29,39	4
2	GOL	A	403	6/6	0.89	0.14	10,13,16,19	6
5	PGE	A	434	10/10	0.89	0.21	12,22,34,35	10
4	EDO	A	427	4/4	0.92	0.15	22,27,32,36	4
7	MXE	A	452	5/5	0.93	0.13	13,16,22,27	5
4	EDO	A	422	4/4	0.94	0.15	8,11,16,23	4
2	GOL	A	401	6/6	0.95	0.07	12,18,22,24	0
4	EDO	A	424	4/4	0.96	0.10	14,16,22,24	0
10	CA	A	491	1/1	1.00	0.07	4,4,4,4	0
10	CA	A	492	1/1	1.00	0.07	4,4,4,4	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.