



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 01:00 PM UTC

PDB ID : 4ZTB / pdb_00004ztb
Title : Crystal structure of nsP2 protease from Chikungunya virus in P212121 space group at 2.59 Å (4molecules/ASU).
Authors : Narwal, M.; Pratap, S.; Singh, H.; Kumar, P.; Tomar, S.
Deposited on : 2015-05-14
Resolution : 2.59 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

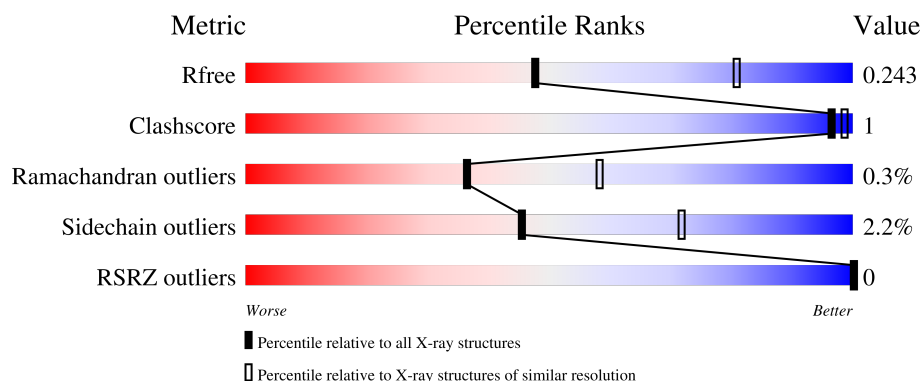
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

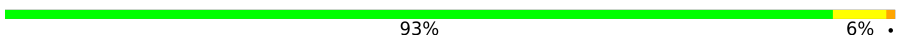
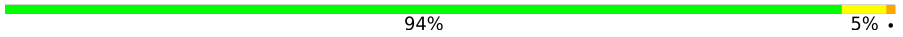
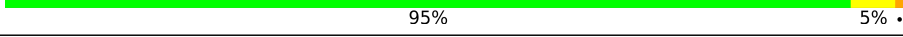
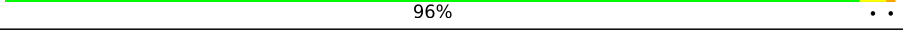
The reported resolution of this entry is 2.59 Å.

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	4008 (2.60-2.60)
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (2.60-2.60)

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	321	 93% 6% .
1	B	321	 94% 5% .
1	C	321	 95% 5% .
1	D	321	 96% . .

2 Entry composition [i](#)

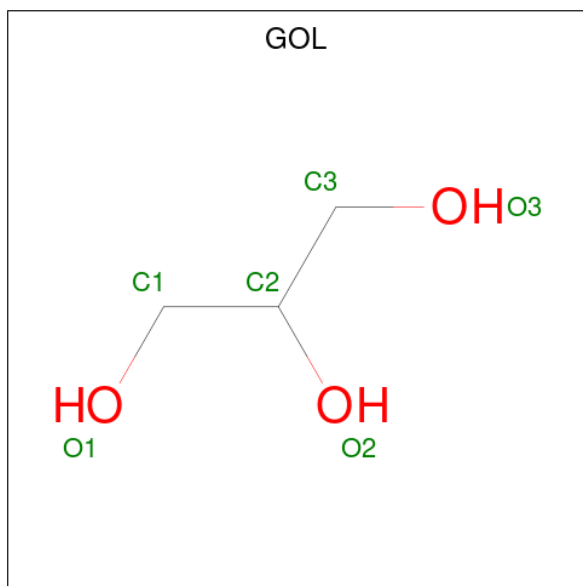
There are 3 unique types of molecules in this entry. The entry contains 10617 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Protease nsP2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	321	Total	C	N	O	S	0	0	0
			2574	1643	467	451	13			
1	B	321	Total	C	N	O	S	0	0	0
			2574	1643	467	451	13			
1	C	321	Total	C	N	O	S	0	0	0
			2574	1643	467	451	13			
1	D	321	Total	C	N	O	S	0	0	0
			2574	1643	467	451	13			

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



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

Continued on next page...

Continued from previous page...

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

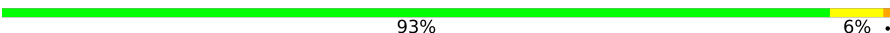
- Molecule 3 is water.

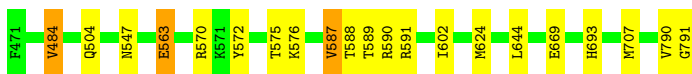
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	69	Total O 69 69	0	0
3	B	72	Total O 72 72	0	0
3	C	71	Total O 71 71	0	0
3	D	49	Total O 49 49	0	0

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: Protease nsP2

Chain A:  93% 6% •



- Molecule 1: Protease nsP2

Chain B:  94% 5% •

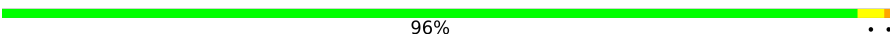


- Molecule 1: Protease nsP2

Chain C:  95% 5% •



- Molecule 1: Protease nsP2

Chain D:  96% • •



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	87.04Å 158.96Å 158.88Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.21 – 2.59 47.21 – 2.60	Depositor EDS
% Data completeness (in resolution range)	82.2 (47.21-2.59) 82.3 (47.21-2.60)	Depositor EDS
R_{merge}	0.20	Depositor
R_{sym}	0.20	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.09 (at 2.58Å)	Xtriage
Refinement program	REFMAC 5.8.0073	Depositor
R, R_{free}	0.210 , 0.242 0.213 , 0.243	Depositor DCC
R_{free} test set	2877 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	47.9	Xtriage
Anisotropy	0.059	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 17.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.349 for -h,l,k	Xtriage
Reported twinning fraction	0.639 for H, K, L 0.361 for -H, L, K	Depositor
Outliers	7 of 56663 reflections (0.012%)	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	10617	wwPDB-VP
Average B, all atoms (Å ²)	60.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 22.89 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 5.2047e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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

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	1.07	2/2639 (0.1%)	1.14	5/3578 (0.1%)
1	B	1.06	6/2639 (0.2%)	1.13	7/3578 (0.2%)
1	C	1.07	4/2639 (0.2%)	1.07	6/3578 (0.2%)
1	D	1.08	4/2639 (0.2%)	1.07	3/3578 (0.1%)
All	All	1.07	16/10556 (0.2%)	1.10	21/14312 (0.1%)

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	484	VAL	CA-CB	11.46	1.59	1.54
1	B	484	VAL	CA-CB	11.24	1.59	1.54
1	D	484	VAL	CA-CB	11.20	1.59	1.54
1	A	484	VAL	CA-CB	11.11	1.59	1.54
1	C	790	VAL	CA-CB	10.36	1.66	1.55
1	B	546	ASP	CA-CB	8.35	1.66	1.53
1	B	790	VAL	CA-C	8.14	1.60	1.52
1	B	736	ARG	CD-NE	6.18	1.54	1.46
1	D	575	THR	CA-CB	6.02	1.63	1.53
1	A	484	VAL	N-CA	5.85	1.53	1.46
1	B	622	GLU	CA-CB	5.65	1.62	1.53
1	B	484	VAL	N-CA	5.59	1.53	1.46
1	C	484	VAL	CA-C	5.45	1.58	1.52
1	C	779	HIS	CA-CB	5.40	1.62	1.53
1	D	779	HIS	CA-CB	5.33	1.62	1.53
1	D	576	LYS	N-CA	5.09	1.52	1.46

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	484	VAL	N-CA-CB	15.64	121.00	110.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	484	VAL	N-CA-CB	15.60	120.97	110.52
1	B	484	VAL	CB-CA-C	-15.12	99.33	113.70
1	A	484	VAL	CB-CA-C	-15.00	99.45	113.70
1	B	790	VAL	CB-CA-C	8.99	119.72	110.91
1	C	626	TRP	CA-CB-CG	6.24	125.46	113.60
1	B	589	THR	N-CA-C	-5.99	98.76	108.41
1	C	589	THR	N-CA-C	-5.95	98.82	108.41
1	A	587	VAL	CB-CA-C	5.85	124.83	111.02
1	C	790	VAL	N-CA-CB	5.74	117.72	111.41
1	D	587	VAL	CB-CA-C	5.74	124.55	111.02
1	A	484	VAL	O-C-N	5.65	124.04	120.42
1	A	575	THR	N-CA-C	5.65	118.21	111.71
1	C	626	TRP	CB-CA-C	-5.61	101.83	110.81
1	D	484	VAL	N-CA-CB	5.55	114.24	110.52
1	C	484	VAL	N-CA-CB	5.53	114.22	110.52
1	B	575	THR	N-CA-C	5.48	118.02	111.71
1	B	484	VAL	O-C-N	5.46	123.92	120.42
1	C	575	THR	N-CA-C	5.20	117.68	111.71
1	B	504	GLN	CB-CG-CD	5.16	121.37	112.60
1	D	504	GLN	CB-CG-CD	5.12	121.31	112.60

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	2574	0	2579	8	0
1	B	2574	0	2579	6	0
1	C	2574	0	2579	4	0
1	D	2574	0	2579	5	0
2	A	6	0	8	0	0
2	B	6	0	8	0	0
2	C	18	0	24	0	0
2	D	30	0	40	0	0
3	A	69	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	72	0	0	0	0
3	C	71	0	0	0	0
3	D	49	0	0	0	0
All	All	10617	0	10396	20	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 1.

All (20) 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:D:572:TYR:O	1:D:575:THR:HG22	1.83	0.79
1:A:791:GLY:HA2	1:B:602:ILE:HD12	1.65	0.77
1:B:707:MET:SD	1:C:660:ARG:NH1	2.81	0.54
1:A:563:GLU:N	1:A:563:GLU:OE2	2.43	0.51
1:C:624:MET:HE3	1:C:644:LEU:HD21	1.92	0.51
1:B:624:MET:HE3	1:B:644:LEU:HD21	1.92	0.51
1:A:624:MET:HE3	1:A:644:LEU:HD21	1.92	0.51
1:B:616:HIS:HB2	1:B:690:PHE:CE2	2.47	0.48
1:A:707:MET:SD	1:D:660:ARG:NH1	2.86	0.47
1:D:572:TYR:CD2	1:D:587:VAL:HG21	2.52	0.45
1:C:602:ILE:HD11	1:C:693:HIS:CD2	2.53	0.44
1:D:569:GLU:HG2	1:D:575:THR:HG23	1.99	0.44
1:B:602:ILE:HD11	1:B:693:HIS:CD2	2.54	0.43
1:A:572:TYR:CD2	1:A:587:VAL:HG21	2.53	0.43
1:A:572:TYR:CE2	1:A:587:VAL:HG21	2.54	0.43
1:D:572:TYR:CE2	1:D:587:VAL:HG21	2.55	0.42
1:A:602:ILE:HD11	1:A:693:HIS:CE1	2.57	0.40
1:A:589:THR:O	1:A:591:ARG:N	2.53	0.40
1:B:589:THR:O	1:B:591:ARG:N	2.54	0.40
1:C:589:THR:O	1:C:591:ARG:N	2.54	0.40

There are no symmetry-related clashes.

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	319/321 (99%)	302 (95%)	16 (5%)	1 (0%)	36	58
1	B	319/321 (99%)	302 (95%)	16 (5%)	1 (0%)	36	58
1	C	319/321 (99%)	303 (95%)	15 (5%)	1 (0%)	36	58
1	D	319/321 (99%)	302 (95%)	16 (5%)	1 (0%)	36	58
All	All	1276/1284 (99%)	1209 (95%)	63 (5%)	4 (0%)	36	58

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	590	ARG
1	B	590	ARG
1	C	590	ARG
1	D	590	ARG

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	278/278 (100%)	269 (97%)	9 (3%)	34	62
1	B	278/278 (100%)	274 (99%)	4 (1%)	59	81
1	C	278/278 (100%)	273 (98%)	5 (2%)	51	76
1	D	278/278 (100%)	272 (98%)	6 (2%)	45	72
All	All	1112/1112 (100%)	1088 (98%)	24 (2%)	45	72

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	484	VAL
1	A	504	GLN
1	A	547	ASN
1	A	563	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	570	ARG
1	A	576	LYS
1	A	588	THR
1	A	669	GLU
1	A	790	VAL
1	B	484	VAL
1	B	488	GLU
1	B	504	GLN
1	B	547	ASN
1	C	472	GLN
1	C	504	GLN
1	C	547	ASN
1	C	780	VAL
1	C	790	VAL
1	D	472	GLN
1	D	504	GLN
1	D	576	LYS
1	D	588	THR
1	D	591	ARG
1	D	790	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (22) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	629	ASN
1	A	634	HIS
1	A	635	HIS
1	A	697	GLN
1	A	783	ASN
1	B	548	HIS
1	B	629	ASN
1	B	634	HIS
1	B	635	HIS
1	B	697	GLN
1	B	771	ASN
1	C	634	HIS
1	C	635	HIS
1	C	693	HIS
1	C	697	GLN
1	C	783	ASN
1	D	629	ASN
1	D	634	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	635	HIS
1	D	693	HIS
1	D	697	GLN
1	D	786	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

10 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	$\# Z > 2$
2	GOL	A	801	-	5,5,5	0.53	0	5,5,5	0.29	0
2	GOL	C	802	-	5,5,5	0.36	0	5,5,5	0.72	0
2	GOL	D	804	-	5,5,5	0.55	0	5,5,5	0.38	0
2	GOL	B	801	-	5,5,5	0.90	0	5,5,5	0.95	0
2	GOL	D	803	-	5,5,5	0.54	0	5,5,5	0.37	0
2	GOL	D	805	-	5,5,5	0.90	0	5,5,5	0.55	0
2	GOL	D	802	-	5,5,5	0.87	0	5,5,5	0.41	0
2	GOL	C	801	-	5,5,5	0.57	0	5,5,5	0.65	0
2	GOL	C	803	-	5,5,5	0.68	0	5,5,5	0.65	0
2	GOL	D	801	-	5,5,5	0.84	0	5,5,5	0.33	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
2	GOL	A	801	-	-	1/4/4/4	-
2	GOL	C	802	-	-	2/4/4/4	-
2	GOL	D	804	-	-	1/4/4/4	-
2	GOL	B	801	-	-	2/4/4/4	-
2	GOL	D	803	-	-	1/4/4/4	-
2	GOL	D	805	-	-	4/4/4/4	-
2	GOL	D	802	-	-	4/4/4/4	-
2	GOL	C	801	-	-	1/4/4/4	-
2	GOL	C	803	-	-	3/4/4/4	-
2	GOL	D	801	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (21) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	C	803	GOL	O1-C1-C2-C3
2	D	801	GOL	O1-C1-C2-C3
2	D	805	GOL	O1-C1-C2-O2
2	D	805	GOL	O1-C1-C2-C3
2	B	801	GOL	O1-C1-C2-C3
2	C	802	GOL	C1-C2-C3-O3
2	D	802	GOL	O1-C1-C2-C3
2	D	802	GOL	C1-C2-C3-O3
2	D	805	GOL	C1-C2-C3-O3
2	C	802	GOL	O2-C2-C3-O3
2	C	803	GOL	O1-C1-C2-O2
2	D	801	GOL	O1-C1-C2-O2
2	D	805	GOL	O2-C2-C3-O3
2	B	801	GOL	O1-C1-C2-O2
2	D	802	GOL	O1-C1-C2-O2
2	D	802	GOL	O2-C2-C3-O3
2	D	803	GOL	O1-C1-C2-O2
2	D	804	GOL	O2-C2-C3-O3
2	C	801	GOL	O1-C1-C2-C3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	C	803	GOL	C1-C2-C3-O3
2	A	801	GOL	C1-C2-C3-O3

There are no ring outliers.

No monomer is involved in short contacts.

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	321/321 (100%)	-1.56	0 100 100	42, 58, 89, 113	0
1	B	321/321 (100%)	-1.58	0 100 100	45, 58, 76, 97	0
1	C	321/321 (100%)	-1.59	0 100 100	44, 57, 78, 94	0
1	D	321/321 (100%)	-1.55	0 100 100	42, 61, 89, 106	0
All	All	1284/1284 (100%)	-1.57	0 100 100	42, 58, 84, 113	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
2	GOL	D	803	6/6	0.97	0.09	69,74,75,75	0
2	GOL	B	801	6/6	0.98	0.05	48,55,56,56	0
2	GOL	C	801	6/6	0.99	0.04	63,70,72,72	0
2	GOL	C	802	6/6	0.99	0.04	54,58,60,60	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	GOL	C	803	6/6	0.99	0.04	58,60,61,61	0
2	GOL	D	801	6/6	0.99	0.03	50,53,54,54	0
2	GOL	D	802	6/6	0.99	0.05	57,64,65,67	0
2	GOL	A	801	6/6	0.99	0.05	65,71,74,78	0
2	GOL	D	804	6/6	0.99	0.07	62,66,70,71	0
2	GOL	D	805	6/6	0.99	0.04	51,60,62,62	0

6.5 Other polymers [i](#)

There are no such residues in this entry.