wwPDB X-ray Structure Validation Summary Report (i)

Jun 15, 2024 – 07:13 AM EDT

PDB ID	:	1W3M
Title	:	Crystal structure of tsushimycin
Authors	:	Bunkoczi, G.; Vertesy, L.; Sheldrick, G.M.
Deposited on	:	2004-07-16
Resolution	:	1.00 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:

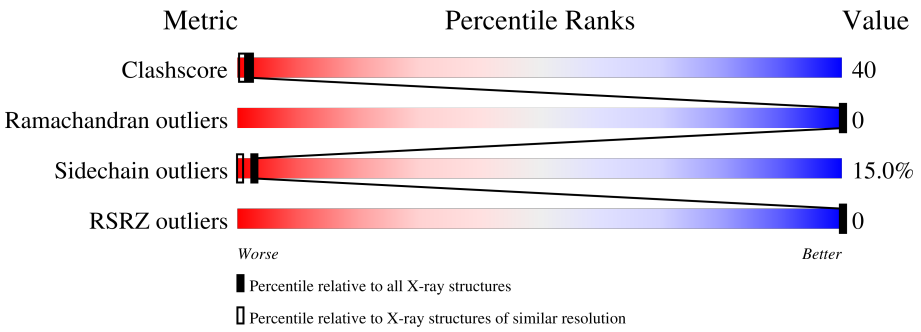
MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	2.37.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

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 1.00 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))
Clashscore	141614	1117 (1.06-0.94)
Ramachandran outliers	138981	1043 (1.06-0.94)
Sidechain outliers	138945	1045 (1.06-0.94)
RSRZ outliers	127900	1023 (1.06-0.94)

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	11	55% 36% 9%
1	B	11	45% 45% 9%
1	C	11	64% 36%
1	D	11	64% 36%
1	E	11	73% 27%
1	F	11	64% 27% 9%
1	G	11	55% 36% 9%

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Mol	Chain	Length	Quality of chain
1	H	11	36% 55% 9%
1	I	11	64% 9% 27%
1	J	11	64% 36%
1	K	11	55% 45%
1	L	11	73% 27%

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
1	2AS	B	4	-	-	X	-
4	CL	C	3017[A]	-	-	X	-
4	CL	C	3017[B]	-	-	X	-
5	EOH	B	3014	-	-	X	-
5	EOH	B	3019	-	-	X	-
5	EOH	C	3013	-	-	X	-
5	EOH	E	3015	-	-	X	-
5	EOH	G	3014[A]	-	-	X	-
5	EOH	G	3014[B]	-	-	X	-
5	EOH	H	3013	-	-	X	-
5	EOH	H	3014	-	-	X	-
5	EOH	J	3013[B]	-	-	-	X
5	EOH	K	3013	-	-	X	-
5	EOH	K	3014	-	-	X	-
5	EOH	L	3015	-	-	X	-

2 Entry composition (i)

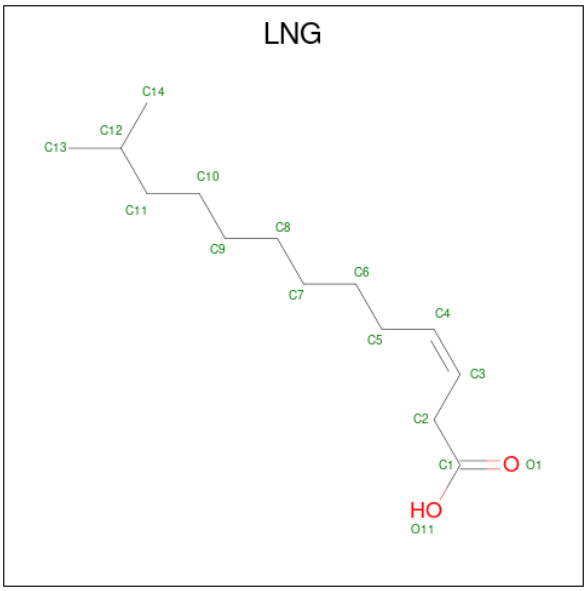
There are 6 unique types of molecules in this entry. The entry contains 1316 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 TSUSHIMYCIN.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
1	A	11	77	45	13	19	0	0	0
1	B	11	77	45	13	19	0	0	0
1	C	11	81	47	13	21	0	1	0
1	D	11	77	45	13	19	0	0	0
1	E	11	77	45	13	19	0	0	0
1	F	11	77	45	13	19	0	0	0
1	G	11	77	45	13	19	0	0	0
1	H	11	88	52	14	22	0	2	0
1	I	11	77	45	13	19	0	0	0
1	J	11	80	48	13	19	0	1	0
1	K	11	80	48	13	19	0	1	0
1	L	11	77	45	13	19	0	0	0

- Molecule 2 is Delta-3isotetradecenoic acid (three-letter code: LNG) (formula: $C_{14}H_{26}O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	8	6	2	0	1
			Total	C	O		
2	B	1	9	8	1	0	0
			Total	C	O		
2	C	1	8	6	2	0	1
			Total	C	O		
2	D	1	4	3	1	0	0
			Total	C	O		
2	E	1	5	4	1	0	0
			Total	C	O		
2	F	1	5	4	1	0	0
			Total	C	O		
2	G	1	15	14	1	0	0
			Total	C	O		
2	H	1	3	2	1	0	0
			Total	C	O		
2	I	1	6	5	1	0	1
			Total	C	O		
2	J	1	15	14	1	0	0
			Total	C	O		
2	K	1	8	6	2	0	1
			Total	C	O		
2	L	1	3	2	1	0	0

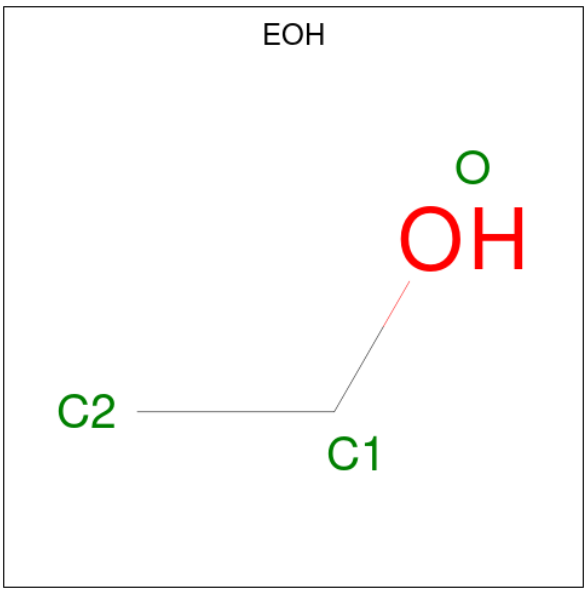
- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Ca		
3	A	1	1	1	0	0
3	B	3	3	3	0	0
3	C	3	3	3	0	0
3	D	2	2	2	0	0
3	E	2	2	2	0	0
3	F	2	2	2	0	0
3	G	3	3	3	0	0
3	H	2	2	2	0	0
3	I	2	2	2	0	0
3	J	2	2	2	0	0
3	K	2	2	2	0	0
3	L	1	1	1	0	0

- Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Cl		
4	A	2	2	2	0	0
4	B	1	1	1	0	0
4	C	2	3	3	0	1
4	D	1	1	1	0	0
4	F	1	1	1	0	0
4	J	1	1	1	0	0
4	K	1	1	1	0	0
4	L	1	1	1	0	0

- Molecule 5 is ETHANOL (three-letter code: EOH) (formula: C_2H_6O).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	B	1	Total	C	O		0	0
			3	2	1			
5	B	1	Total	C	O		0	0
			3	2	1			
5	B	1	Total	C	O		0	0
			3	2	1			
5	B	1	Total	C	O		0	0
			3	2	1			
5	B	1	Total	C	O		0	0
			3	2	1			
5	C	1	Total	C	O		0	0
			3	2	1			
5	E	1	Total	C	O		0	0
			3	2	1			
5	G	1	Total	C	O		0	0
			3	2	1			
5	G	1	Total	C	O		0	1
			4	3	1			
5	H	1	Total	C	O		0	0
			3	2	1			
5	H	1	Total	C	O		0	0
			3	2	1			
5	H	1	Total	C	O		0	1
			6	4	2			
5	J	1	Total	C	O		0	1
			3	2	1			

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
5	J	1	3	2	1	0	0
			Total	C	O		
5	K	1	3	2	1	0	0
			Total	C	O		
5	K	1	3	2	1	0	0
			Total	C	O		
5	L	1	3	2	1	0	0

- Molecule 6 is water.

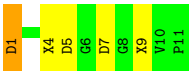
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
6	A	13	13	13	0	0
			Total	O		
6	B	15	15	15	0	0
			Total	O		
6	C	26	26	26	0	0
			Total	O		
6	D	11	11	11	0	0
			Total	O		
6	E	15	15	15	0	0
			Total	O		
6	F	20	20	20	0	0
			Total	O		
6	G	17	17	17	0	0
			Total	O		
6	H	17	17	17	0	0
			Total	O		
6	I	16	16	16	0	0
			Total	O		
6	J	13	13	13	0	0
			Total	O		
6	K	18	18	18	0	0
			Total	O		
6	L	10	10	10	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.

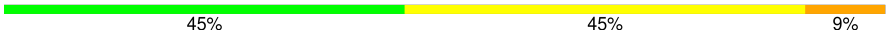
- Molecule 1: TSUSHIMYCIN

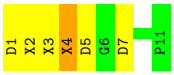
Chain A:



- Molecule 1: TSUSHIMYCIN

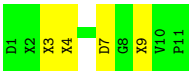
Chain B:





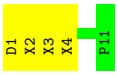
- Molecule 1: TSUSHIMYCIN

Chain C:



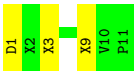
- Molecule 1: TSUSHIMYCIN

Chain D:



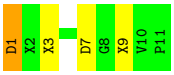
- Molecule 1: TSUSHIMYCIN

Chain E:



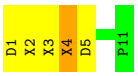
- Molecule 1: TSUSHIMYCIN

Chain F:



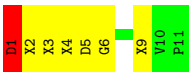
• Molecule 1: TSUSHIMYCIN

Chain G:



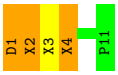
• Molecule 1: TSUSHIMYCIN

Chain H:



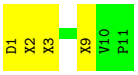
• Molecule 1: TSUSHIMYCIN

Chain I:



• Molecule 1: TSUSHIMYCIN

Chain J:

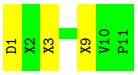


• Molecule 1: TSUSHIMYCIN

Chain K:

• Molecule 1: TSUSHIMYCIN

Chain L:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	33.49Å 36.39Å 37.51Å 65.64° 68.35° 69.88°	Depositor
Resolution (Å)	99.00 – 1.00 26.01 – 1.00	Depositor EDS
% Data completeness (in resolution range)	96.2 (99.00-1.00) 94.8 (26.01-1.00)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.93 (at 1.00Å)	Xtriage
Refinement program	SHELXL-97	Depositor
R, R_{free}	0.139 , 0.171 0.140 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å^2)	7.6	Xtriage
Anisotropy	0.533	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.38 , 92.7	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	0.042 for -h,-l,-k	Xtriage
F_o,F_c correlation	0.98	EDS
Total number of atoms	1316	wwPDB-VP
Average B, all atoms (Å^2)	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 12.99% 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 (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: CL, VDL, CA, LNG, CPI, VLL, EOH, 2AS

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	0.69	0/44	1.71	2/56 (3.6%)
1	B	0.84	0/44	0.91	0/56
1	C	0.75	0/52	1.52	2/67 (3.0%)
1	D	0.84	0/44	1.48	0/56
1	E	0.77	0/44	1.17	0/56
1	F	0.71	0/44	1.79	1/56 (1.8%)
1	G	0.72	0/44	0.91	0/56
1	H	0.81	0/58	1.83	4/72 (5.6%)
1	I	0.71	0/44	0.93	0/56
1	J	0.62	0/51	0.97	0/64
1	K	0.66	0/51	0.99	0/64
1	L	0.66	0/44	1.24	0/56
All	All	0.73	0/564	1.34	9/715 (1.3%)

There are no bond length outliers.

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	1	ASP	CB-CG-OD1	7.99	125.49	118.30
1	A	1	ASP	CB-CG-OD2	6.69	124.32	118.30
1	H	1[A]	ASP	CB-CG-OD1	6.50	124.15	118.30
1	H	1[B]	ASP	CB-CG-OD1	6.50	124.15	118.30
1	A	7	ASP	CB-CG-OD2	6.46	124.12	118.30

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	77	0	61	2	0
1	B	77	0	60	7	0
1	C	81	0	61	3	0
1	D	77	0	61	0	0
1	E	77	0	61	0	0
1	F	77	0	61	1	0
1	G	77	0	61	7	0
1	H	88	0	69	16	0
1	I	77	0	61	5	0
1	J	80	0	66	0	0
1	K	80	0	65	3	0
1	L	77	0	61	0	1
2	A	8	0	4	0	0
2	B	9	0	10	0	0
2	C	8	0	4	0	0
2	D	4	0	2	0	0
2	E	5	0	3	0	0
2	F	5	0	3	0	0
2	G	15	0	25	0	0
2	H	3	0	0	0	0
2	I	6	0	4	0	0
2	J	15	0	25	1	0
2	K	8	0	4	0	0
2	L	3	0	0	0	0
3	A	1	0	0	0	0
3	B	3	0	0	0	0
3	C	3	0	0	0	0
3	D	2	0	0	0	0
3	E	2	0	0	0	0
3	F	2	0	0	0	0
3	G	3	0	0	0	0
3	H	2	0	0	0	0
3	I	2	0	0	0	0
3	J	2	0	0	0	0
3	K	2	0	0	0	0
3	L	1	0	0	0	0
4	A	2	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	1	0	0	0	0
4	C	3	0	0	4	0
4	D	1	0	0	0	0
4	F	1	0	0	0	0
4	J	1	0	0	0	0
4	K	1	0	0	0	0
4	L	1	0	0	0	0
5	B	15	0	29	8	1
5	C	3	0	5	4	0
5	E	3	0	6	6	0
5	G	7	0	18	16	0
5	H	12	0	24	23	0
5	J	6	0	12	1	0
5	K	6	0	12	7	0
5	L	3	0	6	8	0
6	A	13	0	0	1	0
6	B	15	0	0	0	0
6	C	26	0	0	6	1
6	D	11	0	0	0	0
6	E	15	0	0	1	0
6	F	20	0	0	6	1
6	G	17	0	0	2	0
6	H	17	0	0	7	0
6	I	16	0	0	3	0
6	J	13	0	0	5	0
6	K	18	0	0	6	0
6	L	10	0	0	0	0
All	All	1316	0	944	84	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 40.

The worst 5 of 84 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:H:6:GLY:HA2	5:H:3013:EOH:C1	1.63	1.29
5:C:3013:EOH:H12	6:C:2026:HOH:O	1.30	1.28
5:K:3013:EOH:C2	6:K:2002:HOH:O	1.79	1.28
1:H:6:GLY:CA	5:H:3013:EOH:H11	1.63	1.27
5:K:3013:EOH:H22	6:K:2002:HOH:O	1.34	1.20

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)
6:C:2009:HOH:O	6:F:2005:HOH:O[1_564]	2.07	0.13
1:L:1:ASP:OD1	5:B:3019:EOH:C2[1_456]	2.13	0.07

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	5/11 (46%)	5 (100%)	0	0	100	100
1	B	5/11 (46%)	5 (100%)	0	0	100	100
1	C	6/11 (54%)	6 (100%)	0	0	100	100
1	D	5/11 (46%)	5 (100%)	0	0	100	100
1	E	5/11 (46%)	5 (100%)	0	0	100	100
1	F	5/11 (46%)	5 (100%)	0	0	100	100
1	G	5/11 (46%)	5 (100%)	0	0	100	100
1	H	5/11 (46%)	5 (100%)	0	0	100	100
1	I	5/11 (46%)	5 (100%)	0	0	100	100
1	J	5/11 (46%)	5 (100%)	0	0	100	100
1	K	5/11 (46%)	5 (100%)	0	0	100	100
1	L	5/11 (46%)	5 (100%)	0	0	100	100
All	All	61/132 (46%)	61 (100%)	0	0	100	100

There are no Ramachandran outliers to report.

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	5/5 (100%)	5 (100%)	0	100	100
1	B	5/5 (100%)	4 (80%)	1 (20%)	1	0
1	C	6/5 (120%)	6 (100%)	0	100	100
1	D	5/5 (100%)	4 (80%)	1 (20%)	1	0
1	E	5/5 (100%)	4 (80%)	1 (20%)	1	0
1	F	5/5 (100%)	4 (80%)	1 (20%)	1	0
1	G	5/5 (100%)	4 (80%)	1 (20%)	1	0
1	H	7/5 (140%)	5 (71%)	2 (29%)	0	0
1	I	5/5 (100%)	4 (80%)	1 (20%)	1	0
1	J	6/5 (120%)	5 (83%)	1 (17%)	2	0
1	K	6/5 (120%)	5 (83%)	1 (17%)	2	0
1	L	5/5 (100%)	5 (100%)	0	100	100
All	All	65/60 (108%)	55 (85%)	10 (15%)	3	0

5 of 10 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	I	1	ASP
1	J	1	ASP
1	K	1	ASP
1	F	1	ASP
1	G	1	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

48 non-standard protein/DNA/RNA residues 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	$\#\|Z\| > 2$
1	VDL	K	9	1	5,6,7	1.00	0	1,7,9	1.56	0
1	VDL	F	9	1	5,6,7	1.43	1 (20%)	1,7,9	1.25	0
1	VLL	I	2	3,1	5,6,7	1.06	0	1,7,9	2.43	1 (100%)
1	VDL	A	9	1	5,6,7	1.65	2 (40%)	1,7,9	1.78	0
1	VDL	E	9	1	5,6,7	1.24	1 (20%)	1,7,9	1.93	0
1	VDL	D	9	1	5,6,7	0.86	0	1,7,9	1.17	0
1	CPI	C	3	1	6,8,9	1.13	1 (16%)	7,9,11	1.89	1 (14%)
1	VLL	K	2	3,1	5,6,7	1.00	0	1,7,9	1.69	0
1	2AS	C	4	3,1	7,8,9	1.23	1 (14%)	5,10,12	1.33	0
1	VLL	C	2	3,1	5,6,7	0.82	0	1,7,9	1.92	0
1	2AS	I	4	3,1	7,8,9	1.14	0	5,10,12	1.85	2 (40%)
1	VLL	L	2	3,1	5,6,7	0.81	0	1,7,9	1.63	0
1	2AS	E	4	3,1	7,8,9	1.10	0	5,10,12	1.24	0
1	VDL	J	9	1	5,6,7	1.21	1 (20%)	1,7,9	0.41	0
1	2AS	K	4	3,1	7,8,9	1.17	0	5,10,12	1.50	1 (20%)
1	VDL	B	9	1	5,6,7	0.79	0	1,7,9	0.97	0
1	CPI	D	3	1	6,8,9	0.78	0	7,9,11	1.43	2 (28%)
1	2AS	D	4	3,1	7,8,9	1.24	1 (14%)	5,10,12	1.18	1 (20%)
1	VDL	L	9	1	5,6,7	1.21	1 (20%)	1,7,9	1.34	0
1	VLL	H	2	3,1	5,6,7	1.07	0	1,7,9	2.02	1 (100%)
1	VLL	J	2	3,1	5,6,7	1.03	0	1,7,9	2.42	1 (100%)
1	2AS	B	4	1	7,8,9	0.96	0	5,10,12	1.08	1 (20%)
1	VLL	D	2	3,1	5,6,7	0.84	0	1,7,9	2.25	1 (100%)
1	CPI	F	3	1	6,8,9	0.49	0	7,9,11	1.43	1 (14%)
1	VLL	F	2	3,1	5,6,7	0.93	0	1,7,9	1.21	0
1	CPI	I	3	1	6,8,9	0.68	0	7,9,11	1.31	1 (14%)
1	CPI	K	3	1	6,8,9	0.82	0	7,9,11	1.32	1 (14%)
1	2AS	F	4	1	7,8,9	0.62	0	5,10,12	1.15	0
1	CPI	B	3	1	6,8,9	0.59	0	7,9,11	0.99	1 (14%)
1	CPI	J	3	1	6,8,9	0.74	0	7,9,11	1.74	3 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
1	CPI	L	3	1	6,8,9	0.53	0	7,9,11	1.46	1 (14%)
1	2AS	G	4	3,1	7,8,9	1.55	1 (14%)	5,10,12	1.37	0
1	VLL	A	2	3,1	5,6,7	0.89	0	1,7,9	1.94	0
1	2AS	H	4	3,1	7,8,9	1.51	1 (14%)	5,10,12	0.95	0
1	VDL	H	9	1	5,6,7	1.57	1 (20%)	1,7,9	1.54	0
1	2AS	L	4	3,1	7,8,9	1.09	0	5,10,12	1.37	0
1	VDL	C	9	1	5,6,7	1.19	0	1,7,9	1.65	0
1	CPI	A	3	1	6,8,9	0.50	0	7,9,11	0.87	0
1	CPI	H	3	1	6,8,9	0.93	0	7,9,11	1.47	2 (28%)
1	2AS	A	4	3,1	7,8,9	1.03	0	5,10,12	1.86	1 (20%)
1	2AS	J	4	3,1	7,8,9	1.02	0	5,10,12	1.35	0
1	VLL	G	2	3,1	5,6,7	1.15	0	1,7,9	2.08	1 (100%)
1	VDL	G	9	1	5,6,7	1.08	0	1,7,9	0.79	0
1	CPI	E	3	1	6,8,9	0.96	0	7,9,11	1.81	2 (28%)
1	VDL	I	9	1	5,6,7	0.78	0	1,7,9	1.02	0
1	VLL	E	2	3,1	5,6,7	0.87	0	1,7,9	2.00	0
1	CPI	G	3	1	6,8,9	0.67	0	7,9,11	1.53	2 (28%)
1	VLL	B	2	3,1	5,6,7	1.00	0	1,7,9	2.10	1 (100%)

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
1	VDL	K	9	1	-	0/3/6/8	-
1	VDL	F	9	1	-	0/3/6/8	-
1	VLL	I	2	3,1	-	1/3/6/8	-
1	VDL	A	9	1	-	0/3/6/8	-
1	VDL	E	9	1	-	0/3/6/8	-
1	VDL	D	9	1	-	0/3/6/8	-
1	CPI	C	3	1	-	0/1/10/12	0/1/1/1
1	VLL	K	2	3,1	-	1/3/6/8	-
1	2AS	C	4	3,1	-	1/9/10/12	-
1	VLL	C	2	3,1	-	1/3/6/8	-
1	2AS	I	4	3,1	-	0/9/10/12	-
1	VLL	L	2	3,1	-	1/3/6/8	-
1	2AS	E	4	3,1	-	1/9/10/12	-
1	VDL	J	9	1	-	0/3/6/8	-
1	2AS	K	4	3,1	-	0/9/10/12	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	VDL	B	9	1	-	0/3/6/8	-
1	CPI	D	3	1	-	0/1/10/12	0/1/1/1
1	2AS	D	4	3,1	-	0/9/10/12	-
1	VDL	L	9	1	-	0/3/6/8	-
1	VLL	H	2	3,1	-	1/3/6/8	-
1	VLL	J	2	3,1	-	1/3/6/8	-
1	2AS	B	4	1	-	0/9/10/12	-
1	VLL	D	2	3,1	-	1/3/6/8	-
1	CPI	F	3	1	-	0/1/10/12	0/1/1/1
1	VLL	F	2	3,1	-	1/3/6/8	-
1	CPI	I	3	1	-	0/1/10/12	0/1/1/1
1	CPI	K	3	1	-	0/1/10/12	0/1/1/1
1	2AS	F	4	1	-	1/9/10/12	-
1	CPI	B	3	1	-	0/1/10/12	0/1/1/1
1	CPI	J	3	1	-	0/1/10/12	0/1/1/1
1	CPI	L	3	1	-	0/1/10/12	0/1/1/1
1	2AS	G	4	3,1	-	0/9/10/12	-
1	VLL	A	2	3,1	-	1/3/6/8	-
1	2AS	H	4	3,1	-	0/9/10/12	-
1	VDL	H	9	1	-	0/3/6/8	-
1	2AS	L	4	3,1	-	1/9/10/12	-
1	VDL	C	9	1	-	0/3/6/8	-
1	CPI	A	3	1	-	0/1/10/12	0/1/1/1
1	CPI	H	3	1	-	0/1/10/12	0/1/1/1
1	2AS	A	4	3,1	-	1/9/10/12	-
1	2AS	J	4	3,1	-	0/9/10/12	-
1	VLL	G	2	3,1	-	1/3/6/8	-
1	VDL	G	9	1	-	0/3/6/8	-
1	CPI	E	3	1	-	0/1/10/12	0/1/1/1
1	VDL	I	9	1	-	0/3/6/8	-
1	VLL	E	2	3,1	-	1/3/6/8	-
1	CPI	G	3	1	-	0/1/10/12	0/1/1/1
1	VLL	B	2	3,1	-	1/3/6/8	-

The worst 5 of 12 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	4	2AS	CB-CA	-3.21	1.51	1.55
1	H	9	VDL	CB-NG2	3.11	1.52	1.46
1	G	4	2AS	CB-CA	-3.06	1.51	1.55
1	A	9	VDL	CB-NG2	2.80	1.52	1.46
1	C	3	CPI	CG-CB	-2.36	1.47	1.53

The worst 5 of 29 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	3	CPI	CG-CB-CA	4.12	116.78	110.93
1	E	3	CPI	CE-N-CA	3.25	119.09	111.75
1	A	4	2AS	OD1-CG-OD2	-3.15	116.93	124.08
1	G	3	CPI	CE-N-CA	2.75	117.95	111.75
1	E	3	CPI	O-C-CA	-2.74	117.72	124.77

There are no chirality outliers.

5 of 17 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	J	2	VLL	O-C-CA-CB
1	A	4	2AS	O-C-CA-CB
1	C	4	2AS	O-C-CA-CB
1	E	4	2AS	N-CA-CB-C4
1	F	4	2AS	N-CA-CB-C4

There are no ring outliers.

5 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	I	2	VLL	1	0
1	I	4	2AS	1	0
1	B	4	2AS	5	0
1	G	4	2AS	1	0
1	C	9	VDL	3	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 71 ligands modelled in this entry, 36 are monoatomic - leaving 35 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	$\#\|Z\| > 2$
2	LNG	F	0	3,1	4,4,15	1.84	1 (25%)	3,3,16	1.73	1 (33%)
5	EOH	H	3014	-	2,2,2	0.48	0	1,1,1	0.06	0
2	LNG	C	0[A]	1	3,3,15	1.94	1 (33%)	2,2,16	1.25	0
5	EOH	H	3013	-	2,2,2	0.47	0	1,1,1	1.01	0
5	EOH	B	3020	-	2,2,2	0.42	0	1,1,1	0.31	0
2	LNG	K	0[A]	1	3,3,15	2.12	1 (33%)	2,2,16	0.51	0
2	LNG	A	0[A]	1	3,3,15	2.10	1 (33%)	2,2,16	0.75	0
5	EOH	J	3013[B]	-	2,2,2	0.42	0	1,1,1	0.22	0
2	LNG	D	0	3,1	3,3,15	1.88	1 (33%)	2,2,16	0.75	0
5	EOH	L	3015	-	2,2,2	0.43	0	1,1,1	0.36	0
5	EOH	G	3014[A]	-	2,2,2	0.45	0	1,1,1	0.01	0
2	LNG	I	0[A]	-	3,3,15	1.82	1 (33%)	2,2,16	0.91	0
5	EOH	H	3015[B]	-	2,2,2	0.54	0	1,1,1	0.03	0
2	LNG	E	0	3,1	4,4,15	1.96	1 (25%)	3,3,16	1.81	1 (33%)
5	EOH	G	3013	-	2,2,2	0.52	0	1,1,1	0.03	0
5	EOH	B	3021	-	2,2,2	0.45	0	1,1,1	0.25	0
2	LNG	G	0	3,1	14,14,15	0.96	1 (7%)	14,14,16	0.96	1 (7%)
2	LNG	J	0	3,1	14,14,15	1.12	1 (7%)	14,14,16	1.14	1 (7%)
5	EOH	B	3019	-	2,2,2	0.28	0	1,1,1	1.09	0
2	LNG	L	0	1	2,2,15	1.48	1 (50%)	1,1,16	0.51	0
2	LNG	H	0	3	2,2,15	1.48	1 (50%)	1,1,16	0.76	0
2	LNG	C	0[B]	1	3,3,15	2.05	1 (33%)	2,2,16	0.81	0
2	LNG	K	0[B]	1	3,3,15	2.16	1 (33%)	2,2,16	0.71	0
2	LNG	A	0[B]	1	3,3,15	1.94	1 (33%)	2,2,16	0.70	0
5	EOH	G	3014[B]	-	2,2,2	0.52	0	1,1,1	0.30	0
5	EOH	C	3013	3	2,2,2	0.51	0	1,1,1	0.46	0
2	LNG	I	0[B]	-	3,3,15	1.80	1 (33%)	2,2,16	0.65	0
5	EOH	H	3015[A]	-	2,2,2	0.40	0	1,1,1	0.36	0
5	EOH	K	3014	-	2,2,2	0.55	0	1,1,1	0.13	0
5	EOH	K	3013	-	2,2,2	0.36	0	1,1,1	0.76	0
5	EOH	B	3014	3	2,2,2	0.36	0	1,1,1	0.38	0
5	EOH	J	3017	-	2,2,2	0.43	0	1,1,1	0.38	0
2	LNG	B	0	3,1	8,8,15	1.30	1 (12%)	7,7,16	1.11	1 (14%)
5	EOH	B	3013	-	2,2,2	0.43	0	1,1,1	0.72	0
5	EOH	E	3015	-	2,2,2	0.51	0	1,1,1	0.14	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	LNG	F	0	3,1	-	1/2/2/13	-
2	LNG	I	0[A]	-	-	1/1/1/13	-
2	LNG	I	0[B]	-	-	0/1/1/13	-
2	LNG	C	0[A]	1	-	1/1/1/13	-
2	LNG	C	0[B]	1	-	0/1/1/13	-
2	LNG	E	0	3,1	-	1/2/2/13	-
2	LNG	G	0	3,1	-	2/12/12/13	-
2	LNG	J	0	3,1	-	3/12/12/13	-
2	LNG	B	0	3,1	-	3/6/6/13	-
2	LNG	K	0[A]	1	-	0/1/1/13	-
2	LNG	K	0[B]	1	-	1/1/1/13	-
2	LNG	A	0[A]	1	-	0/1/1/13	-
2	LNG	A	0[B]	1	-	1/1/1/13	-
2	LNG	D	0	3,1	-	0/1/1/13	-

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	0	LNG	O11-C1	-4.09	1.21	1.42
2	K	0[B]	LNG	O11-C1	-3.71	1.23	1.42
2	E	0	LNG	O11-C1	-3.69	1.23	1.42
2	K	0[A]	LNG	O11-C1	-3.65	1.23	1.42
2	B	0	LNG	O11-C1	-3.61	1.23	1.42

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	0	LNG	O11-C1-C2	3.73	124.79	110.94
2	F	0	LNG	O11-C1-C2	2.94	121.87	110.94
2	E	0	LNG	O11-C1-C2	2.88	121.65	110.94
2	G	0	LNG	O11-C1-C2	2.80	121.34	110.94
2	B	0	LNG	O11-C1-C2	2.72	121.04	110.94

There are no chirality outliers.

5 of 14 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	0	LNG	C4-C5-C6-C7
2	G	0	LNG	O11-C1-C2-C3
2	J	0	LNG	O11-C1-C2-C3
2	F	0	LNG	O11-C1-C2-C3
2	B	0	LNG	C5-C6-C7-C8

There are no ring outliers.

14 monomers are involved in 69 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	H	3014	EOH	9	0
5	H	3013	EOH	14	0
5	L	3015	EOH	8	0
5	G	3014[A]	EOH	6	0
2	J	0	LNG	1	0
5	B	3019	EOH	5	1
5	G	3014[B]	EOH	10	0
5	C	3013	EOH	4	0
5	K	3014	EOH	3	0
5	K	3013	EOH	4	0
5	B	3014	EOH	2	0
5	J	3017	EOH	1	0
5	B	3013	EOH	1	0
5	E	3015	EOH	6	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	7/11 (63%)	-0.37	0	100	100	7, 8, 14, 19	0
1	B	7/11 (63%)	-0.33	0	100	100	7, 8, 9, 10	0
1	C	7/11 (63%)	-0.27	0	100	100	6, 7, 10, 17	0
1	D	7/11 (63%)	-0.46	0	100	100	7, 8, 11, 12	0
1	E	7/11 (63%)	-0.44	0	100	100	9, 11, 15, 15	0
1	F	7/11 (63%)	-0.22	0	100	100	8, 9, 13, 14	0
1	G	7/11 (63%)	-0.43	0	100	100	9, 10, 13, 14	0
1	H	7/11 (63%)	-0.33	0	100	100	7, 7, 13, 16	0
1	I	7/11 (63%)	-0.35	0	100	100	9, 10, 14, 16	0
1	J	7/11 (63%)	-0.55	0	100	100	8, 9, 11, 11	0
1	K	7/11 (63%)	-0.52	0	100	100	6, 7, 10, 10	0
1	L	7/11 (63%)	0.21	0	100	100	12, 16, 18, 28	0
All	All	84/132 (63%)	-0.34	0	100	100	6, 10, 17, 28	0

There are no RSRZ outliers to report.

6.2 Non-standard residues in protein, DNA, RNA chains (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
1	CPI	L	3	8/9	0.96	0.07	12,13,16,18	0
1	CPI	E	3	8/9	0.97	0.07	10,11,16,17	0
1	CPI	G	3	8/9	0.97	0.07	10,11,14,16	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
1	CPI	J	3	8/9	0.97	0.07	8,9,11,13	0
1	VLL	L	2	7/8	0.97	0.07	13,16,18,22	0
1	2AS	B	4	9/10	0.97	0.06	8,10,18,19	0
1	2AS	I	4	9/10	0.97	0.05	11,13,17,20	0
1	VLL	E	2	7/8	0.98	0.07	12,14,17,19	0
1	VLL	H	2	7/8	0.98	0.06	8,9,10,13	0
1	CPI	H	3	8/9	0.98	0.07	6,7,8,8	0
1	CPI	I	3	8/9	0.98	0.07	10,12,13,15	0
1	VLL	I	2	7/8	0.98	0.07	12,15,16,23	0
1	CPI	K	3	8/9	0.98	0.06	6,7,8,8	0
1	VLL	A	2	7/8	0.98	0.05	9,11,12,16	0
1	2AS	A	4	9/10	0.98	0.08	8,9,14,15	0
1	CPI	A	3	8/9	0.98	0.06	9,10,13,13	0
1	2AS	D	4	9/10	0.98	0.05	6,8,12,14	0
1	2AS	E	4	9/10	0.98	0.06	11,12,15,18	0
1	2AS	G	4	9/10	0.98	0.07	10,13,17,18	0
1	2AS	H	4	9/10	0.98	0.06	7,7,11,16	0
1	CPI	D	3	8/9	0.98	0.07	6,6,8,8	0
1	2AS	J	4	9/10	0.98	0.09	8,10,12,14	0
1	2AS	K	4	9/10	0.98	0.06	7,8,12,12	0
1	2AS	L	4	9/10	0.98	0.06	14,14,22,22	0
1	VDL	A	9	7/8	0.98	0.05	6,7,8,11	0
1	VDL	D	9	7/8	0.98	0.06	6,7,10,11	0
1	VDL	E	9	7/8	0.98	0.06	8,9,11,13	0
1	VDL	G	9	7/8	0.98	0.06	9,9,13,16	0
1	VDL	I	9	7/8	0.98	0.06	8,8,11,13	0
1	VDL	J	9	7/8	0.98	0.06	7,8,9,10	0
1	VDL	L	9	7/8	0.98	0.06	11,12,13,15	0
1	VLL	J	2	7/8	0.99	0.05	8,9,11,18	0
1	VLL	K	2	7/8	0.99	0.04	5,6,7,9	0
1	VLL	B	2	7/8	0.99	0.05	6,6,7,10	0
1	VLL	F	2	7/8	0.99	0.07	7,8,8,11	0
1	CPI	B	3	8/9	0.99	0.06	6,7,7,8	0
1	CPI	C	3	8/9	0.99	0.08	6,7,9,9	0
1	VDL	B	9	7/8	0.99	0.07	5,6,8,10	0
1	VDL	C	9	7/8	0.99	0.05	5,6,8,9	0
1	VLL	G	2	7/8	0.99	0.04	9,10,13,17	0
1	2AS	C	4	9/10	0.99	0.05	5,7,10,11	0
1	VDL	F	9	7/8	0.99	0.07	7,7,9,11	0
1	VLL	C	2	7/8	0.99	0.05	6,8,8,10	0
1	VDL	H	9	7/8	0.99	0.05	6,7,9,10	0
1	CPI	F	3	8/9	0.99	0.05	6,7,8,8	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
1	2AS	F	4	9/10	0.99	0.05	7,9,13,15	0
1	VDL	K	9	7/8	0.99	0.06	6,7,11,11	0
1	VLL	D	2	7/8	0.99	0.04	6,6,7,8	0

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
5	EOH	E	3015	3/3	0.48	0.26	44,44,49,55	0
5	EOH	K	3013	3/3	0.52	0.16	24,24,33,36	3
5	EOH	K	3014	3/3	0.67	0.22	31,31,47,59	0
5	EOH	J	3013[B]	3/3	0.70	0.42	62,62,66,69	3
5	EOH	G	3013	3/3	0.73	0.19	62,62,65,67	0
2	LNG	L	0	3/16	0.75	0.16	28,28,36,36	0
5	EOH	H	3015[B]	3/3	0.78	0.28	19,19,26,27	3
5	EOH	H	3015[A]	3/3	0.78	0.28	24,24,28,29	3
5	EOH	H	3013	3/3	0.79	0.19	17,17,32,35	3
5	EOH	J	3017	3/3	0.81	0.21	36,36,45,65	0
2	LNG	A	0[A]	4/16	0.83	0.25	18,19,27,37	4
2	LNG	A	0[B]	4/16	0.83	0.25	18,22,23,25	4
5	EOH	B	3021	3/3	0.84	0.12	48,48,50,51	0
5	EOH	B	3020	3/3	0.86	0.10	42,42,64,74	0
5	EOH	B	3013	3/3	0.88	0.13	31,31,34,54	0
5	EOH	B	3014	3/3	0.89	0.10	20,20,26,28	0
2	LNG	C	0[A]	4/16	0.91	0.15	18,20,25,32	4
2	LNG	C	0[B]	4/16	0.91	0.15	20,20,26,29	4
5	EOH	G	3014[A]	3/3	0.93	0.18	10,10,23,29	1
5	EOH	G	3014[B]	3/3	0.93	0.18	10,10,18,29	1
5	EOH	C	3013	3/3	0.93	0.14	12,12,14,14	3
2	LNG	F	0	5/16	0.94	0.17	18,18,28,33	0
5	EOH	H	3014	3/3	0.94	0.17	8,8,26,36	0
2	LNG	H	0	3/16	0.95	0.08	10,10,13,22	3
2	LNG	I	0[A]	4/16	0.95	0.10	16,17,19,26	2

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
5	EOH	B	3019	3/3	0.95	0.11	8,8,18,34	0
2	LNG	I	0[B]	4/16	0.95	0.10	13,16,16,17	2
2	LNG	J	0	15/16	0.95	0.08	10,13,20,21	0
2	LNG	E	0	5/16	0.95	0.14	14,15,34,58	0
2	LNG	G	0	15/16	0.96	0.08	9,12,18,20	0
2	LNG	B	0	9/16	0.96	0.09	15,29,58,63	0
2	LNG	D	0	4/16	0.96	0.11	14,17,25,36	0
5	EOH	L	3015	3/3	0.96	0.20	31,31,37,40	0
2	LNG	K	0[A]	4/16	0.99	0.08	9,10,15,19	4
2	LNG	K	0[B]	4/16	0.99	0.08	10,11,14,21	4
3	CA	I	3014	1/1	1.00	0.03	12,12,12,12	0
3	CA	J	3014	1/1	1.00	0.04	6,6,6,6	0
3	CA	J	3015	1/1	1.00	0.04	8,8,8,8	1
3	CA	K	3015	1/1	1.00	0.04	5,5,5,5	0
3	CA	K	3016	1/1	1.00	0.03	8,8,8,8	0
3	CA	L	3013	1/1	1.00	0.03	10,10,10,10	0
4	CL	A	3014	1/1	1.00	0.04	9,9,9,9	1
4	CL	A	3015	1/1	1.00	0.06	8,8,8,8	1
4	CL	B	3018	1/1	1.00	0.04	9,9,9,9	1
4	CL	C	3017[A]	1/1	1.00	0.09	13,13,13,13	1
4	CL	C	3017[B]	1/1	1.00	0.09	7,7,7,7	1
4	CL	C	3018	1/1	1.00	0.05	8,8,8,8	1
4	CL	D	3015	1/1	1.00	0.03	9,9,9,9	1
4	CL	F	3015	1/1	1.00	0.05	11,11,11,11	1
4	CL	J	3016	1/1	1.00	0.05	10,10,10,10	1
4	CL	K	3017	1/1	1.00	0.04	8,8,8,8	1
4	CL	L	3014	1/1	1.00	0.05	12,12,12,12	1
3	CA	A	3013	1/1	1.00	0.03	6,6,6,6	0
3	CA	B	3015	1/1	1.00	0.07	5,5,5,5	0
3	CA	B	3016	1/1	1.00	0.03	8,8,8,8	1
3	CA	B	3017	1/1	1.00	0.04	10,10,10,10	1
3	CA	C	3014	1/1	1.00	0.04	5,5,5,5	0
3	CA	C	3015	1/1	1.00	0.02	10,10,10,10	0
3	CA	C	3016	1/1	1.00	0.04	7,7,7,7	1
3	CA	D	3013	1/1	1.00	0.04	6,6,6,6	0
3	CA	D	3014	1/1	1.00	0.03	10,10,10,10	1
3	CA	E	3013	1/1	1.00	0.03	8,8,8,8	0
3	CA	E	3014	1/1	1.00	0.03	11,11,11,11	0
3	CA	F	3013	1/1	1.00	0.04	6,6,6,6	0
3	CA	F	3014	1/1	1.00	0.03	11,11,11,11	1
3	CA	G	3015	1/1	1.00	0.05	7,7,7,7	0
3	CA	G	3016	1/1	1.00	0.04	6,6,6,6	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	CA	G	3017	1/1	1.00	0.04	6,6,6,6	1
3	CA	H	3016	1/1	1.00	0.03	6,6,6,6	0
3	CA	H	3017	1/1	1.00	0.04	9,9,9,9	1
3	CA	I	3013	1/1	1.00	0.03	8,8,8,8	0

6.5 Other polymers (i)

There are no such residues in this entry.