

# Full wwPDB X-ray Structure Validation Report (i)

Jun 13, 2024 – 09:15 AM EDT

PDB ID : 10B6

Title : Cephaibol B

Authors: Bunkoczi, G.; Schiell, M.; Vertesy, L.; Sheldrick, G.M.

Deposited on : 2003-01-24

Resolution : 0.89 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 (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 (1)) 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 : 2.36.2

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)

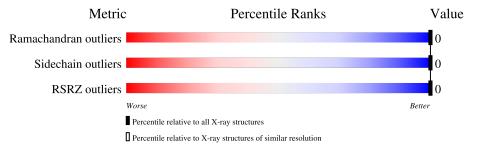
Validation Pipeline (wwPDB-VP) : 2.36.2

# 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 0.89 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	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\#  ext{Entries},  ext{ resolution range}( ext{Å}))$
Ramachandran outliers	138981	1055 (1.04-0.76)
Sidechain outliers	138945	1056 (1.04-0.76)
RSRZ outliers	127900	1028 (1.04-0.76)

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	17	82%	18%		
1	В	17	82%	18%		



# 2 Entry composition (i)

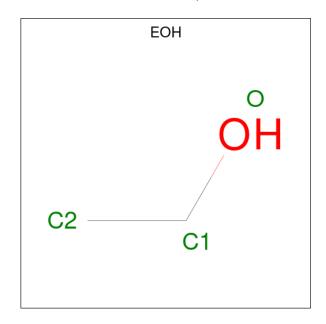
There are 4 unique types of molecules in this entry. The entry contains 341 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 CEPHAIBOL B.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace	
1	A	17	Total 163			0	6	0
1	В	17	Total 142	C 98	O 24	0	5	0

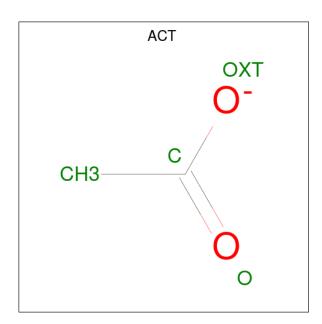
• Molecule 2 is ETHANOL (three-letter code: EOH) (formula: C<sub>2</sub>H<sub>6</sub>O).



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

• Molecule 3 is ACETATE ION (three-letter code: ACT) (formula:  $C_2H_3O_2$ ).





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

#### • Molecule 4 is water.

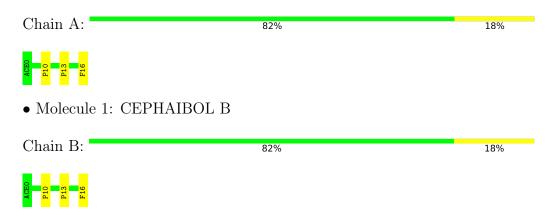
$\mathbf{Mol}$	Chain	Residues	${f Atoms}$	ZeroOcc	AltConf
4	A	14	Total O 14 14	0	7
4	В	12	Total O 12 12	0	5



# 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: CEPHAIBOL B





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	32.15Å 9.13Å 37.98Å	Donositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 111.36° 90.00°	Depositor
Resolution (Å)	35.40 - 0.89	Depositor
rtesolution (A)	35.37 - 0.89	EDS
% Data completeness	97.0 (35.40-0.89)	Depositor
(in resolution range)	95.8 (35.37-0.89)	EDS
$R_{merge}$	0.04	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.22 (at 0.89Å)	Xtriage
Refinement program	SHELXL-97	Depositor
D D.	0.075 , 0.079	Depositor
$R, R_{free}$	0.101 , (Not available)	DCC
$R_{free}$ test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	5.3	Xtriage
Anisotropy	0.284	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.10, 999.0	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.49, < L^2>=0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.99	EDS
Total number of atoms	341	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	5.0	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 82.14 % 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 3.0020e-07. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

<sup>&</sup>lt;sup>2</sup>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.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

# 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: EOH, PHL, HYP, ACT, DIV, AIB, ACE

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		
IVIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.87	0/47	1.20	0/61	
1	В	1.20	0/51	1.60	0/64	
All	All	1.05	0/98	1.42	0/125	

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	163	0	172	0	0
1	В	142	0	145	0	0
2	A	3	0	6	0	0
2	В	3	0	6	0	0
3	В	4	0	3	0	0
4	A	14	0	0	0	0
4	В	12	0	0	0	0
All	All	341	0	332	0	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). Clashscore could not be calculated for this entry.



There are no clashes within the asymmetric unit.

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	Perce	ntiles
1	A	6/17~(35%)	6 (100%)	0	0	100	100
1	В	6/17~(35%)	6 (100%)	0	0	100	100
All	All	12/34 (35%)	12 (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	Perce	ntiles
1	A	5/4 (125%)	5 (100%)	0	100	100
1	В	5/4 (125%)	5 (100%)	0	100	100
All	All	10/8 (125%)	10 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

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

Mol	Chain	Res	Type
1	A	11	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)

30 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	Trunc	Chain	Res	Link	Во	ond leng	ths	В	ond ang	les
IVIOI	Type	Chain	Res	Link	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	AIB	В	14	1	1,5,6	1.28	0	2,7,9	0.16	0
1	PHL	В	16[B]	-	11,11,11	0.71	0	11,13,13	1.07	1 (9%)
1	AIB	В	3[B]	1	1,5,6	1.16	0	2,7,9	0.42	0
1	PHL	В	16[A]	-	11,11,11	0.48	0	11,13,13	0.60	0
1	DIV	A	5	1	2,6,7	0.85	0	3,8,10	0.55	0
1	AIB	В	3[A]	1	1,5,6	1.16	0	2,7,9	0.42	0
1	DIV	A	8	1	2,6,7	0.78	0	3,8,10	0.58	0
1	AIB	A	14[B]	1	1,5,6	1.48	0	2,7,9	1.08	0
1	AIB	A	14[A]	1	1,5,6	1.89	0	2,7,9	0.58	0
1	HYP	В	13	1	6,8,9	1.10	1 (16%)	5,10,12	1.66	1 (20%)
1	DIV	В	12	1	2,6,7	1.13	0	3,8,10	0.35	0
1	AIB	A	2	1	1,5,6	0.88	0	2,7,9	0.45	0
1	HYP	A	13[B]	1	6,8,9	1.22	1 (16%)	5,10,12	1.36	1 (20%)
1	HYP	В	10	1	6,8,9	0.93	0	5,10,12	1.05	1 (20%)
1	AIB	В	4	1	1,5,6	1.02	0	2,7,9	0.22	0
1	HYP	A	13[A]	1	6,8,9	0.90	0	5,10,12	1.96	3 (60%)
1	HYP	A	10[B]	-	6,8,9	0.91	0	5,10,12	1.75	1 (20%)
1	AIB	A	3	1	1,5,6	1.35	0	2,7,9	0.33	0
1	HYP	A	10[A]	-	6,8,9	0.79	0	5,10,12	1.02	0
1	PHL	A	16[B]	1	11,11,11	0.37	0	11,13,13	0.97	0
1	DIV	В	8	1	2,6,7	0.78	0	3,8,10	0.79	0
1	AIB	В	9	1	1,5,6	1.13	0	2,7,9	0.12	0
1	PHL	A	16[A]	1	11,11,11	0.67	0	11,13,13	0.99	1 (9%)
1	AIB	В	2[B]	1	1,5,6	0.95	0	2,7,9	0.45	0
1	AIB	A	4	1	1,5,6	1.43	0	2,7,9	0.21	0
1	AIB	В	2[A]	1	1,5,6	1.48	0	2,7,9	0.69	0



Mol	Type	Chain	Res	Link	Bond lengths				Bond angles		
MIOI	туре	Chain		LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2	
1	DIV	A	12[B]	1	2,6,7	1.33	0	3,8,10	0.55	0	
1	DIV	В	5	1	2,6,7	0.83	0	3,8,10	0.33	0	
1	AIB	A	9	1	1,5,6	1.34	0	2,7,9	0.16	0	
1	DIV	A	12[A]	1	2,6,7	1.00	0	3,8,10	0.79	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
1	AIB	В	14	1	-	0/2/3/6	-
1	PHL	В	16[B]	_	-	0/6/6/6	0/1/1/1
1	AIB	В	3[B]	1	-	0/2/3/6	-
1	PHL	В	16[A]	_	_	1/6/6/6	0/1/1/1
1	DIV	A	5	1	-	0/3/6/9	-
1	AIB	В	3[A]	1	-	0/2/3/6	-
1	DIV	A	8	1	-	0/3/6/9	-
1	AIB	A	14[B]	1	-	0/2/3/6	-
1	AIB	A	14[A]	1	-	0/2/3/6	-
1	HYP	В	13	1	-	0/0/11/13	0/1/1/1
1	DIV	В	12	1	-	0/3/6/9	-
1	AIB	A	2	1	-	0/2/3/6	-
1	HYP	A	13[B]	1	-	0/0/11/13	0/1/1/1
1	HYP	В	10	1	-	0/0/11/13	0/1/1/1
1	AIB	В	4	1	-	0/2/3/6	-
1	HYP	A	13[A]	1	-	0/0/11/13	0/1/1/1
1	HYP	A	10[B]	-	-	0/0/11/13	0/1/1/1
1	AIB	A	3	1	-	0/2/3/6	-
1	HYP	A	10[A]	-	-	0/0/11/13	0/1/1/1
1	PHL	A	16[B]	1	-	0/6/6/6	0/1/1/1
1	DIV	В	8	1	-	0/3/6/9	-
1	AIB	В	9	1	-	0/2/3/6	-
1	PHL	A	16[A]	1	_	0/6/6/6	0/1/1/1
1	AIB	В	2[B]	1	-	0/2/3/6	-
1	AIB	A	4	1	-	0/2/3/6	-
1	AIB	В	2[A]	1	-	0/2/3/6	-
1	DIV	A	12[B]	1	-	0/3/6/9	-
1	DIV	В	5	1	-	0/3/6/9	-
1	AIB	A	9	1	-	0/2/3/6	-
1	DIV	A	12[A]	1	-	0/3/6/9	_

All (2) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$Ideal(\AA)$
1	A	13[B]	HYP	CD-CG	-2.42	1.47	1.53
1	В	13	HYP	CD-CG	-2.04	1.48	1.53

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
1	В	13	HYP	O-C-CA	-3.21	116.37	124.78
1	В	16[B]	PHL	O-C-CA	3.05	123.59	111.52
1	A	10[B]	HYP	CG-CB-CA	-2.88	100.32	103.96
1	A	13[A]	HYP	O-C-CA	-2.66	117.80	124.78
1	A	13[A]	HYP	OD1-CG-CB	-2.43	104.01	110.03
1	В	10	HYP	O-C-CA	-2.14	119.18	124.78
1	A	13[A]	HYP	CG-CB-CA	-2.12	101.28	103.96
1	A	16[A]	PHL	CG-CB-CA	2.10	117.24	113.24
1	A	13[B]	HYP	OD1-CG-CB	-2.05	104.97	110.03

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	В	16[A]	PHL	O-C-CA-N

There are no ring outliers.

No monomer is involved in short contacts.

### 5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

### 5.6 Ligand geometry (i)

3 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	Chain Res Link Bond lengths		$\operatorname{gths}$	Bond angles				
10101	V -		rtes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2
2	EOH	A	29	-	2,2,2	0.19	0	1,1,1	1.47	0
3	ACT	В	29	-	3,3,3	2.37	1 (33%)	3,3,3	2.41	1 (33%)
2	ЕОН	В	30	-	2,2,2	0.40	0	1,1,1	1.44	0

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$\operatorname{Ideal}( ext{\AA})$
3	В	29	ACT	O-C	3.82	1.39	1.22

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\mathbf{Ideal}(^o)$
3	В	29	ACT	O-C-CH3	-3.56	108.47	122.33

There are no chirality outliers.

There are no torsion outliers.

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,  $95^{th}$  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 $>$	$\mathbb{E} \mathbf{SRZ} > \mid  \# \mathbf{RSRZ} > \mid $		$OWAB(A^2)$	Q < 0.9
1	A	5/17 (29%)	-0.69	0 100	100	3, 4, 5, 5	0
1	В	5/17 (29%)	-0.31	0 100	100	4, 4, 4, 6	0
All	All	10/34~(29%)	-0.50	0 100	100	3, 4, 5, 6	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,  $95^{th}$  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	${f B\text{-factors}}({f \AA}^2)$	Q<0.9
1	AIB	A	14[A]	6/7	0.98	0.08	4,5,7,7	6
1	AIB	A	14[B]	6/7	0.98	0.08	3,3,5,5	6
1	PHL	A	16[A]	11/11	0.98	0.06	4,5,7,8	11
1	PHL	A	16[B]	11/11	0.98	0.06	3,4,5,6	11
1	HYP	A	10[A]	8/9	0.99	0.05	3,4,6,8	4
1	HYP	A	10[B]	8/9	0.99	0.05	3,4,6,8	4
1	HYP	A	13[A]	8/9	0.99	0.05	4,4,4,5	8
1	HYP	A	13[B]	8/9	0.99	0.05	3,3,4,4	8
1	AIB	A	2	6/7	0.99	0.05	3,3,4,5	0
1	AIB	A	3	6/7	0.99	0.04	3,3,4,4	0
1	AIB	A	4	6/7	0.99	0.04	2,2,3,3	0
1	AIB	A	9	6/7	0.99	0.04	2,3,3,4	0
1	AIB	В	2[A]	6/7	0.99	0.07	3,4,4,4	6
1	AIB	В	2[B]	6/7	0.99	0.07	3,4,6,7	6
1	AIB	В	3[A]	6/7	0.99	0.05	3,4,5,6	1
1	AIB	В	3[B]	6/7	0.99	0.05	3,4,5,6	1

Continued on next page...



Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
1	AIB	В	4	6/7	0.99	0.05	3,3,4,4	0
1	AIB	В	9	6/7	0.99	0.05	2,3,3,4	0
1	HYP	В	10	8/9	0.99	0.04	3,4,5,5	0
1	HYP	В	13	8/9	0.99	0.05	3,4,5,8	0
1	AIB	В	14	6/7	0.99	0.05	3,4,6,6	0
1	PHL	В	16[A]	11/11	0.99	0.05	3,4,5,6	1
1	PHL	В	16[B]	11/11	0.99	0.05	3,4,5,6	1
1	DIV	A	5	7/8	0.99	0.04	2,2,3,4	0
1	DIV	В	5	7/8	0.99	0.05	3,3,4,6	0
1	DIV	A	8	7/8	0.99	0.05	2,2,3,4	0
1	DIV	В	8	7/8	0.99	0.06	2,3,3,4	0
1	DIV	A	12[A]	7/8	0.99	0.06	4,4,6,9	7
1	DIV	A	12[B]	7/8	0.99	0.06	4,4,5,5	7
1	DIV	В	12	7/8	0.99	0.04	3,3,3,4	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,  $95^{th}$  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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
2	EOH	В	30	3/3	0.94	0.12	6,6,13,35	0
3	ACT	В	29	4/4	0.94	0.13	7,12,19,29	0
2	ЕОН	A	29	3/3	0.97	0.12	9,9,14,33	0

### 6.5 Other polymers (i)

There are no such residues in this entry.

