

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) MAB5

THIS REPORT IS FOR GUIDANCE ONLY. IF USED AS PART OF A REVIEW PROCEDURE FOR PUBLICATION, IT SHOULD NOT REPLACE THE EXPERTISE OF AN EXPERIENCED CRYSTALLOGRAPHIC REFEREE.

No syntax errors found. CIF dictionary Interpreting this report

Datablock: MAB5

Bond precision:	C-C = 0.0033 A	Wavelength=1.54184	
Cell:	a=10.0642 (1)	b=11.5551 (1)	c=15.7004 (2)
	alpha=90	beta=107.629 (1)	gamma=90
Temperature:	100 K		
	Calculated	Reported	
Volume	1740.10 (3)	1740.10 (3)	
Space group	P 21/c	P 1 21/c 1	
Hall group	-P 2ybc	-P 2ybc	
Moiety formula	C18 H38 N2, 2 (B5 H4 O10)	C18 H38 N2, 2 (B5 H4 O10)	
Sum formula	C18 H46 B10 N2 O20	C18 H46 B10 N2 O20	
Mr	718.67	718.67	
Dx, g cm ⁻³	1.372	1.372	
Z	2	2	
Mu (mm ⁻¹)	0.976	0.976	
F000	756.0	756.0	
F000'	758.82		
h, k, lmax	12, 13, 18	12, 13, 18	
Nref	3184	3183	
Tmin, Tmax	0.921, 0.981	0.786, 1.000	
Tmin'	0.864		

Correction method= # Reported T Limits: Tmin=0.786 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 1.000 Theta(max)= 68.237

R(reflections)= 0.0417(2928)

wR2(reflections)=
0.1290(3183)

S = 1.067

Npar= 243

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.



Alert level C

PLAT112_ALERT_2_C	ADDSYM Detects New (Pseudo) Symm. Elem	A	84 %Fit
PLAT250_ALERT_2_C	Large U3/U1 Ratio for <U(i,j)> Tensor(Resd	1)	2.7 Note
PLAT411_ALERT_2_C	Short Inter H...H Contact H2A ..H4A	.	2.11 Ang.
	2-x,-1/2+y,1/2-z =		2_745 Check



Alert level G

PLAT142_ALERT_4_G	s.u. on b - Axis Small or Missing		0.00010 Ang.
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L=	0.600	1 Note
PLAT969_ALERT_5_G	The 'Henn et al.' R-Factor-gap value		6.94 Note
	Predicted wR2: Based on SigI**2 1.86 or SHELX Weight	12.58	
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.		0 Info
PLAT992_ALERT_5_G	Repd & Actual _reflns_number_gt Values Differ by		2 Check

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
3 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
5 **ALERT level G** = General information/check it is not something unexpected
- 0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
4 ALERT type 2 Indicator that the structure model may be wrong or deficient
0 ALERT type 3 Indicator that the structure quality may be low
2 ALERT type 4 Improvement, methodology, query or suggestion
2 ALERT type 5 Informative message, check
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It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

Publication of your CIF in IUCr journals

A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E* or *IUCrData*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

Publication of your CIF in other journals

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

