checkCIF/PLATON report

Structure factors have been supplied for datablock(s) exp_3736_sq

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.

Datablock: exp_3736_sq

```
C-C = 0.0085 A
Bond precision:
                                          Wavelength=1.54184
Cell:
               a=11.9190(12)
                                  b=12.5825(11)
                                                     c=14.8081(16)
               alpha=104.186(8)
                                 beta=110.328(9)
                                                    gamma=96.071(8)
               100 K
Temperature:
                Calculated
                                            Reported
Volume
                1974.0(4)
                                            1974.0(4)
Space group
               P -1
                                            P - 1
Hall group
                -P 1
                                            -P 1
Moiety formula C49 H39 B N2 O [+ solvent] C49 H39 B N2 O
Sum formula C49 H39 B N2 O [+ solvent] C49 H39 B N2 O
Mr
                682.63
                                            682.63
                1.148
                                            1.148
Dx,g cm-3
                                            2
                2
Mu (mm-1)
                0.519
                                            0.519
F000
                720.0
                                           720.0
F000'
                721.91
h,k,lmax
                14,14,17
                                           14,14,17
Nref
                6973
                                            6960
Tmin, Tmax
                0.969,0.974
                                            0.593,1.000
Tmin'
                0.949
Correction method= # Reported T Limits: Tmin=0.593 Tmax=1.000
AbsCorr = MULTI-SCAN
Data completeness= 0.998
                                   Theta(max) = 66.599
                                                      wR2 (reflections) =
R(reflections) = 0.0818(3802)
                                                      0.2274 (6960)
S = 1.027
                          Npar= 485
```

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.

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🍭 Alert level B
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PLAT420_ALERT_2_B D-H Bond Without Acceptor 0004 --H004 . Please Check

Alert level G

Alert level G								
PLAT003_ALERT_2_G Number of Uiso or Uij Restrained non-H Atoms							1	Report
PLAT007_ALERT_5_G Nu								Report
H004								
PLAT186_ALERT_4_G Th	e CIF-Embe	dded .r	es File	Contains	S ISOR Re	ecords	1	Report
PLAT605_ALERT_4_G Largest Solvent Accessible VOID in the Structure							259	A**3
PLAT720_ALERT_4_G Number of Unusual/Non-Standard Labels							92	Note
0004	H004	N005	N006	C007	C008	C009	COOA	
C00B	COOC	COOD	COOE	HOOE	COOF	C00G	HOOG	
СООН	COOI	C00J	COOK	COOL	COOM	COON	HOON	
C000	H000	C00P	C00Q	HOOQ	COOR	HOOR	C00S	
HOOS	COOT	COOU	COOV	COOW	HOOW	COOX	HOOX	
COOY	HOOA	H00B	HOOC	COOZ	C010	H010	C011	
C012	H012	C013	C014	C015	C016	H016	C017	
H01A	H01B	H01C	C018	H018	C019	H01D	H01E	
H01F	C01A	H01G	C01B	H01H	C01C	H01I	C01D	
H01J	C01E	H01K	C01F	H01L	C01G	H01M	C01H	
H01N	H010	H01P	C01I	H01Q	H01R	H01S	C01J	
HO1T	H01U	H01V	B01K					
PLAT860_ALERT_3_G Number of Least-Squares Restraints							6	Note
PLAT869_ALERT_4_G ALERTS Related to the Use of SQUEEZE Suppressed						ressed	!	Info
PLAT883_ALERT_1_G No Info/Value for _atom_sites_solution_primary .						mary .	Please	Do !
PLAT909_ALERT_3_G Percentage of I>2sig(I) Data at Theta(Max) Still						Still	41%	Note
PLAT933_ALERT_2_G Number of HKL-OMIT Records in Embedded .res File						s File	3	Note
-4 10 9, -6 7 13, 0 1 0,								
PLAT941_ALERT_3_G Average HKL Measurement Multiplicity							1.8	Low
PLAT969_ALERT_5_G The 'Henn et al.' R-Factor-gap value							1.60	Note
Predicted wR2: Based on SigI**2 14.17 or SHELX Weight 23.05								

2 Info

PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density.

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ALERT level A = Most likely a serious problem - resolve or explain

1 ALERT level B = A potentially serious problem, consider carefully

7 ALERT level C = Check. Ensure it is not caused by an omission or oversight

13 ALERT level G = General information/check it is not something unexpected

2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data

6 ALERT type 2 Indicator that the structure model may be wrong or deficient

7 ALERT type 3 Indicator that the structure quality may be low

4 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.

PLATON version of 06/01/2024; check.def file version of 05/01/2024

