

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) exp_3473_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.

No syntax errors found. CIF dictionary Interpreting this report

Datablock: exp_3473_sq

Bond precision: C-C = 0.0061 Å Wavelength=1.54184

Cell: a=11.6677(12) b=12.7694(11) c=14.5328(8)
 alpha=103.399(7) beta=109.908(8) gamma=94.935(7)
Temperature: 100 K

	Calculated	Reported
Volume	1948.0(3)	1948.0(3)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C49 H39 B N2 [+ solvent]	C49 H39 B N2
Sum formula	C49 H39 B N2 [+ solvent]	C49 H39 B N2
Mr	666.63	666.63
Dx, g cm ⁻³	1.137	1.137
Z	2	2
Mu (mm ⁻¹)	0.495	0.495
F000	704.0	704.0
F000'	705.81	
h, k, lmax		13, 15, 17
Nref		6887
Tmin, Tmax	0.976, 0.976	0.762, 1.000
Tmin'	0.976	

Correction method= # Reported T Limits: Tmin=0.762 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= Theta(max)= 66.600

R(reflections)= 0.0815(4447)	wR2(reflections)=
S = 1.047	0.2447(6887)
Npar= 475	

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

DIFMX02_ALERT_1_C The maximum difference density is > 0.1*ZMAX*0.75

The relevant atom site should be identified.

PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	2.04	Report
PLAT097_ALERT_2_C	Large Reported Max. (Positive) Residual Density	0.54	eA-3
PLAT340_ALERT_3_C	Low Bond Precision on C-C Bonds	0.00615	Ang.
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance	4.599	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.595	7 Report
	9 7 0, 9 8 0, 1 -1 1, 8 9 1, -7 0 7, -13 3 7,		
	6 -6 12,		

● Alert level G

PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large	0.13	Report
PLAT300_ALERT_4_G	Atom Site Occupancy of H26A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H26B Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H26C Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H28A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H28B Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H28C Constrained at	0.5	Check
PLAT605_ALERT_4_G	Largest Solvent Accessible VOID in the Structure	248	A**3
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...	0.00	Deg.
	H26A -C26 -H26A 1_555 1_555 1_555	# 89	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...	0.00	Deg.
	H28A -C28 -H28A 1_555 1_555 1_555	# 108	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...	0.00	Deg.
	H28B -C28 -H28B 1_555 1_555 1_555	# 117	Check
PLAT789_ALERT_4_G	Atoms with Negative _atom_site_disorder_group #	6	Check
PLAT822_ALERT_4_G	CIF-embedded .res Contains Negative PART Numbers	2	Check
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed	!	Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .	Please	Do !
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	53%	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	1.7	Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	0	Info

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

0 **ALERT level B** = A potentially serious problem, consider carefully

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

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

2 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

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

13 ALERT type 4 Improvement, methodology, query or suggestion

0 ALERT type 5 Informative message, check

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.

