

checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

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: fe0183_b

Bond precision: C-C = 0.0074 A Wavelength=0.71073

Cell: a=16.166(4) b=11.279(5) c=12.294(3)
 alpha=90 beta=90 gamma=90

Temperature: 100 K

	Calculated	Reported
Volume	2241.6(13)	2241.8(12)
Space group	P c a 21	P c a 21
Hall group	P 2c -2ac	P 2c -2ac
Moiety formula	C15 H33 B10 Cl Ge N2	?
Sum formula	C15 H33 B10 Cl Ge N2	C15 H33 B10 Cl Ge N2
Mr	457.59	457.57
Dx,g cm-3	1.356	1.356
Z	4	4
Mu (mm-1)	1.491	1.491
F000	944.0	944.0
F000'	945.30	
h,k,lmax	22,15,16	22,15,16
Nref	6053[3165]	5800
Tmin,Tmax	0.808,0.886	0.740,0.890
Tmin'	0.731	

Correction method= # Reported T Limits: Tmin=0.740 Tmax=0.890
AbsCorr = NUMERICAL

Data completeness= 1.83/0.96 Theta(max)= 29.185

R(reflections)= 0.0480(5643) wR2(reflections)= 0.1231(5800)

S = 1.142 Npar= 262

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

PLAT341_ALERT_3_C Low Bond Precision on C-C Bonds 0.00743 Ang.

● Alert level G

PLAT007_ALERT_5_G Number of Unrefined Donor-H Atoms 1 Report
PLAT343_ALERT_2_G Unusual sp? Angle Range in Main Residue for C2 Check
PLAT343_ALERT_2_G Unusual sp? Angle Range in Main Residue for C3 Check
PLAT367_ALERT_2_G Long? C(sp?)-C(sp?) Bond C1 - C2 . 1.51 Ang.
PLAT367_ALERT_2_G Long? C(sp?)-C(sp?) Bond C2 - C3 . 1.63 Ang.
PLAT720_ALERT_4_G Number of Unusual/Non-Standard Labels 5 Note

0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
1 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
6 **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
1 ALERT type 3 Indicator that the structure quality may be low
1 ALERT type 4 Improvement, methodology, query or suggestion
1 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.

