

# checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 2

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: 2

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Bond precision:    C-C = 0.0075 Å                      Wavelength=0.71073

Cell:                      a=11.8704(11)              b=8.3227(6)              c=16.4831(12)  
                                alpha=90                      beta=90                      gamma=90  
Temperature:              100 K

	Calculated	Reported
Volume	1628.4(2)	1628.4(2)
Space group	P b c a	P b c a
Hall group	-P 2ac 2ab	-P 2ac 2ab
Moiety formula	C12 H20 Br2 N4 Pt	C12 H20 Br2 N4 Pt
Sum formula	C12 H20 Br2 N4 Pt	C12 H20 Br2 N4 Pt
Mr	575.20	575.23
Dx,g cm-3	2.346	2.346
Z	4	4
Mu (mm-1)	13.517	13.517
F000	1072.0	1072.0
F000'	1064.10	
h,k,lmax	14,10,20	14,10,20
Nref	1597	1593
Tmin,Tmax	0.116,0.197	0.380,1.000
Tmin'	0.087	

Correction method= # Reported T Limits: Tmin=0.380 Tmax=1.000  
AbsCorr = MULTI-SCAN

Data completeness= 0.997                      Theta(max)= 25.993

R(reflections)= 0.0274( 1294)              wR2(reflections)= 0.0660( 1593)

S = 1.163                      Npar= 88

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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

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PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance .....	2.766	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.600	4	Report
PLAT972_ALERT_2_C	Check Calcd Resid. Dens. 1.95A From C6	-1.54	eA-3
PLAT974_ALERT_2_C	Check Calcd Negative Resid. Density on Pt1	-1.18	eA-3

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### Alert level G

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PLAT794_ALERT_5_G	Tentative Bond Valency for Pt1 (II) .	2.37	Info
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).	1	Note
PLAT913_ALERT_3_G	Missing # of Very Strong Reflections in FCF ...	1	Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...	3	Note
PLAT960_ALERT_3_G	Number of Intensities with I < - 2*sig(I) ...	1	Check
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	0	Info

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0 **ALERT level A** = Most likely a serious problem - resolve or explain  
0 **ALERT level B** = A potentially serious problem, consider carefully  
4 **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  
5 ALERT type 3 Indicator that the structure quality may be low  
0 ALERT type 4 Improvement, methodology, query or suggestion  
1 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.

Datablock 2 - ellipsoid plot

