

# checkCIF/PLATON report

Structure factors have been supplied for datablock(s) deh011

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: deh011

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Bond precision:    C-C = 0.0018 Å                      Wavelength=0.71073

Cell:                      a=12.800(3)              b=9.4949(19)              c=15.887(3)  
                            alpha=90              beta=100.74(3)              gamma=90

Temperature:              293 K

	Calculated	Reported
Volume	1897.0(7)	1897.0(7)
Space group	P 21/c	P 21/c
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C25 H18 N P	?
Sum formula	C25 H18 N P	C25 H18 N P
Mr	363.37	363.37
Dx,g cm-3	1.272	1.272
Z	4	4
Mu (mm-1)	0.154	0.154
F000	760.0	760.0
F000'	760.66	
h,k,lmax	18,13,22	18,13,22
Nref	5551	5550
Tmin,Tmax	0.970,0.977	0.869,0.928
Tmin'	0.970	

Correction method= # Reported T Limits: Tmin=0.869 Tmax=0.928  
AbsCorr = MULTI-SCAN

Data completeness= 1.000                      Theta(max)= 30.059

R(reflections)= 0.0439( 4714)              wR2(reflections)= 0.1641( 5550)

S = 1.357                      Npar= 244

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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.

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### Alert level B

PLAT934\_ALERT\_3\_B Number of (Iobs-Icalc)/SigmaW > 10 Outliers .... 2 Check

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### Alert level C

ABSTY02\_ALERT\_1\_C An \_exptl\_absorpt\_correction\_type has been given without  
a literature citation. This should be contained in the  
\_exptl\_absorpt\_process\_details field.

Absorption correction given as multi-scan  
PLAT230\_ALERT\_2\_C Hirshfeld Test Diff for P1 -- C14 .. 7.0 su

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### Alert level G

PLAT199\_ALERT\_1\_G Reported \_cell\_measurement\_temperature ..... (K) 293 Check  
PLAT200\_ALERT\_1\_G Reported \_diffrn\_ambient\_temperature ..... (K) 293 Check  
PLAT910\_ALERT\_3\_G Missing # of FCF Reflection(s) Below Th(Min) ... 1 Report

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- 0 **ALERT level A** = Most likely a serious problem - resolve or explain  
1 **ALERT level B** = A potentially serious problem, consider carefully  
2 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
3 **ALERT level G** = General information/check it is not something unexpected

- 3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
1 ALERT type 2 Indicator that the structure model may be wrong or deficient  
2 ALERT type 3 Indicator that the structure quality may be low  
0 ALERT type 4 Improvement, methodology, query or suggestion  
0 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*, 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 21/06/2015; check.def file version of 21/06/2015

Datablock deh011 - ellipsoid plot

