

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 1

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: 1

Bond precision:	C-C = 0.0026 Å	Wavelength=0.71073
Cell:	a=10.6954(13) b=23.526(3) c=11.3878(13)	
	alpha=90 beta=108.403(2) gamma=90	
Temperature:	296 K	
	Calculated	Reported
Volume	2718.9(6)	2718.8(6)
Space group	P 21/n	P 21/n
Hall group	-P 2yn	-P 2yn
Moiety formula	C34 H27 N O2	?
Sum formula	C34 H27 N O2	C34 H27 N O2
Mr	481.57	481.56
Dx,g cm-3	1.176	1.176
Z	4	4
Mu (mm-1)	0.072	0.072
F000	1016.0	1016.0
F000'	1016.42	
h,k,lmax	12,27,13	12,27,13
Nref	4790	4787
Tmin,Tmax	0.979,0.983	
Tmin'	0.979	

Correction method= Not given

Data completeness= 0.999 Theta(max)= 24.999

R(reflections)= 0.0426(3440) wR2(reflections)= 0.1141(4787)

S = 1.044 Npar= 334

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

PLAT906_ALERT_3_C Large K Value in the Analysis of Variance 4.302 Check
PLAT910_ALERT_3_C Missing # of FCF Reflection(s) Below Theta(Min). 6 Note

● Alert level G

PLAT003_ALERT_2_G Number of Uiso or Uij Restrained non-H Atoms ... 2 Report
PLAT177_ALERT_4_G The CIF-Embedded .res File Contains DELU Records 1 Report
PLAT230_ALERT_2_G Hirshfeld Test Diff for C8 --C31 . 7.5 s.u.
PLAT371_ALERT_2_G Long C(sp2)-C(sp1) Bond C18 - C23 . 1.43 Ang.
PLAT371_ALERT_2_G Long C(sp2)-C(sp1) Bond C24 - C25 . 1.43 Ang.
PLAT793_ALERT_4_G Model has Chirality at C7 (Centro SPGR) R Verify
PLAT793_ALERT_4_G Model has Chirality at C8 (Centro SPGR) R Verify
PLAT793_ALERT_4_G Model has Chirality at C9 (Centro SPGR) R Verify
PLAT793_ALERT_4_G Model has Chirality at C10 (Centro SPGR) R Verify
PLAT860_ALERT_3_G Number of Least-Squares Restraints 1 Note
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 42% Note
PLAT933_ALERT_2_G Number of OMIT Records in Embedded .res File ... 1 Note
PLAT961_ALERT_5_G Dataset Contains no Negative Intensities Please Check
PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density. 5 Info
PLAT992_ALERT_5_G Repd & Actual _reflns_number_gt Values Differ by 1 Check

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

1 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
4 ALERT type 3 Indicator that the structure quality may be low
5 ALERT type 4 Improvement, methodology, query or suggestion
2 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.

PLATON version of 22/12/2019; check.def file version of 13/12/2019

