

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) s1_a

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: s1_a

Bond precision:	C-C = 0.0047 Å	Wavelength=0.71073	
Cell:	a=10.0337(4)	b=33.6762(14)	c=10.7644(4)
	alpha=90	beta=107.477(1)	gamma=90
Temperature:	100 K		
	Calculated	Reported	
Volume	3469.4(2)	3469.4(2)	
Space group	P 21/c	P 21/c	
Hall group	-P 2ybc	-P 2ybc	
Moiety formula	C36 H53 N2 P U	?	
Sum formula	C36 H53 N2 P U	C36 H53 N2 P U	
Mr	782.80	782.80	
Dx,g cm-3	1.499	1.499	
Z	4	4	
Mu (mm-1)	4.750	4.750	
F000	1560.0	1560.0	
F000'	1522.44		
h,k,lmax	12,42,13	12,42,13	
Nref	7185	7159	
Tmin,Tmax	0.796,0.954	0.480,0.562	
Tmin'	0.593		

Correction method= # Reported T Limits: Tmin=0.480 Tmax=0.562
AbsCorr = MULTI-SCAN

Data completeness= 0.996 Theta(max)= 26.482

R(reflections)= 0.0264(6047) wR2(reflections)= 0.0459(7159)

S = 1.062 Npar= 377

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	2.480	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.600	2	Report
PLAT972_ALERT_2_C	Check Calcd Resid. Dens. 1.16A From C36	-1.71 eA-3	
PLAT975_ALERT_2_C	Check Calcd Resid. Dens. 0.80A From N2	0.44 eA-3	

● Alert level G

PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	6.55	Why ?
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C26	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety	C7	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety	C8	Check
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).	3	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	20	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 ...	2	Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	3	Info

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

0 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
3 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.

