

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 2_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: 2_a

Bond precision:	C-C = 0.0065 A	Wavelength=0.71073	
Cell:	a=15.0030(15)	b=7.4626(8)	c=23.472(2)
	alpha=90	beta=96.211(4)	gamma=90
Temperature:	193 K		
	Calculated	Reported	
Volume	2612.5(4)	2612.5(5)	
Space group	P 21/n	P 21/n	
Hall group	-P 2yn	-P 2yn	
Moiety formula	C17 H39 N9 P2 U	?	
Sum formula	C17 H39 N9 P2 U	C17 H39 N9 P2 U	
Mr	669.54	669.54	
Dx,g cm-3	1.702	1.702	
Z	4	4	
Mu (mm-1)	6.357	6.357	
F000	1304.0	1304.0	
F000'	1266.79		
h,k,lmax	17,8,27	17,8,27	
Nref	4601	4585	
Tmin,Tmax	0.535,0.530		
Tmin'	0.524		

Correction method= Not given

Data completeness= 0.997 Theta(max)= 25.024

R(reflections)= 0.0215(4090) wR2(reflections)= 0.0539(4585)

S = 1.082 Npar= 265

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

PLAT052_ALERT_1_C	Info on Absorption Correction Method	Not Given	Please Do !
PLAT218_ALERT_3_C	Constrained U(ij) Components(s) for N4	.	6 Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.595	12 Report
PLAT913_ALERT_3_C	Missing # of Very Strong Reflections in FCF		4 Note
PLAT971_ALERT_2_C	Check Calcd Resid. Dens.	0.88A From U1	1.87 eA-3

● Alert level G

PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...		3 Report
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension		1 Info
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records		1 Report
PLAT860_ALERT_3_G	Number of Least-Squares Restraints		18 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		78% Note
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).		4 Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity		4.0 Low
PLAT961_ALERT_5_G	Dataset Contains no Negative Intensities		Please Check
PLAT965_ALERT_2_G	The SHELXL WEIGHT Optimisation has not Converged		Please Check
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.		1 Info

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

2 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
7 ALERT type 3 Indicator that the structure quality may be low
1 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.

