

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 = 0.0030 Å	Wavelength=0.71073	
Cell:	a=11.6258(16)	b=11.1970(16)	c=15.042(2)
	alpha=90	beta=110.329(2)	gamma=90
Temperature:	296 K		
	Calculated	Reported	
Volume	1836.1(4)	1836.1(4)	
Space group	P 21/c	P 21/c	
Hall group	-P 2ybc	-P 2ybc	
Moiety formula	C23 H18 N2 O	?	
Sum formula	C23 H18 N2 O	C23 H18 N2 O	
Mr	338.39	338.39	
Dx,g cm-3	1.224	1.224	
Z	4	4	
Mu (mm-1)	0.076	0.076	
F000	712.0	712.0	
F000'	712.27		
h,k,lmax	13,13,17	13,13,17	
Nref	3229	3221	
Tmin,Tmax	0.980,0.985		
Tmin'	0.980		

Correction method= Not given

Data completeness= 0.998 Theta(max)= 24.998

R(reflections)= 0.0454(2445) wR2(reflections)= 0.1401(3221)

S = 0.873 Npar= 236

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

PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C1	--C6	.	6.0 s.u.
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C19 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C4 Check
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance			4.008 Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.595			7 Report

● Alert level G

PLAT230_ALERT_2_G	Hirshfeld Test Diff for	C16	--C23	.	5.1 s.u.
PLAT371_ALERT_2_G	Long C(sp2)-C(sp1) Bond	C4	- C7	.	1.44 Ang.
PLAT371_ALERT_2_G	Long C(sp2)-C(sp1) Bond	C8	- C9	.	1.43 Ang.
PLAT793_ALERT_4_G	Model has Chirality at C15		(Centro SPGR)		S Verify
PLAT793_ALERT_4_G	Model has Chirality at C17		(Centro SPGR)		R Verify
PLAT793_ALERT_4_G	Model has Chirality at C21		(Centro SPGR)		R Verify
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				54% Note
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).				1 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.				9 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
12 **ALERT level G** = General information/check it is not something unexpected

1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
8 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
1 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.

