

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 = 0.0024 Å	Wavelength=0.71073	
Cell:	a=11.2244(19)	b=12.002(2)	c=11.899(2)
	alpha=90	beta=93.971(3)	gamma=90
Temperature:	296 K		
	Calculated	Reported	
Volume	1599.1(5)	1599.0(5)	
Space group	P 21/n	P 21/n	
Hall group	-P 2yn	-P 2yn	
Moiety formula	C40 H28 N2 O4	?	
Sum formula	C40 H28 N2 O4	C20 H14 N O2	
Mr	600.64	300.32	
Dx,g cm-3	1.247	1.247	
Z	2	4	
Mu (mm-1)	0.081	0.081	
F000	628.0	628.0	
F000'	628.28		
h,k,lmax	13,14,14	13,14,14	
Nref	2982	2973	
Tmin,Tmax	0.978,0.979		
Tmin'	0.978		

Correction method= Not given

Data completeness= 0.997 Theta(max)= 25.497

R(reflections)= 0.0465(2220) wR2(reflections)= 0.1511(2973)

S = 0.930 Npar= 220

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

PLAT220_ALERT_2_C	NonSolvent Resd 1 C Ueq(max) / Ueq(min) Range	3.2	Ratio
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance	4.506	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.600	8	Report

● Alert level G

PLAT045_ALERT_1_G	Calculated and Reported Z Differ by a Factor ...	0.50	Check
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large	0.11	Report
PLAT230_ALERT_2_G	Hirshfeld Test Diff for C19 --C20 .	6.2	s.u.
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)	4%	Note
PLAT371_ALERT_2_G	Long C(sp2)-C(sp1) Bond C4 - C7 .	1.43	Ang.
PLAT371_ALERT_2_G	Long C(sp2)-C(sp1) Bond C8 - C9 .	1.43	Ang.
PLAT412_ALERT_2_G	Short Intra XH3 .. XHn H19 ..H20E .	2.09	Ang.
	x,y,z =	1_555	Check
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .		Please Do !
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 ...	7	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	2.8	Low
PLAT961_ALERT_5_G	Dataset Contains no Negative Intensities		Please Check
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	4	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
3 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
14 **ALERT level G** = General information/check it is not something unexpected

2 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
5 ALERT type 3 Indicator that the structure quality may be low
0 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.

