

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 14944sadabs

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: 14944sadabs

Bond precision: C-C = 0.0019 Å Wavelength=0.71073

Cell: a=7.2022(5) b=8.4003(5) c=15.0621(10)
 alpha=99.969(4) beta=94.673(4) gamma=111.188(2)
Temperature: 100 K

	Calculated	Reported
Volume	826.48(10)	826.48(9)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C21 H19 N O4	C21 H19 N O4
Sum formula	C21 H19 N O4	C21 H19 N O4
Mr	349.37	349.37
Dx, g cm ⁻³	1.404	1.404
Z	2	2
Mu (mm ⁻¹)	0.098	0.098
F000	368.0	368.0
F000'	368.18	
h, k, lmax	10, 12, 21	10, 12, 21
Nref	5070	5061
Tmin, Tmax	0.987, 0.998	0.985, 0.998
Tmin'	0.977	

Correction method= # Reported T Limits: Tmin=0.985 Tmax=0.998
AbsCorr = GAUSSIAN

Data completeness= 0.998 Theta(max)= 30.555

R(reflections)= 0.0483(3946)	wR2(reflections)= 0.1418(5061)
S = 1.027	Npar= 261

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

PLAT213_ALERT_2_C	Atom N1	has ADP max/min Ratio	3.2	prolat
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	N1	Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C9	Check
PLAT250_ALERT_2_C	Large	U3/U1 Ratio for Average U(i,j) Tensor	2.3	Note
PLAT911_ALERT_3_C	Missing	FCF Refl Between Thmin & STh/L= 0.600	2	Report



Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite		11	Note
PLAT066_ALERT_1_G	Predicted and Reported Tmin&Tmax Range Identical		?	Check
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records		2	Report
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records		3	Report
PLAT187_ALERT_4_G	The CIF-Embedded .res File Contains RIGU Records		1	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used		0.0400	Report
PLAT230_ALERT_2_G	Hirshfeld Test Diff for N1 --C11'		25.6	s.u.
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)		8%	Note
PLAT398_ALERT_2_G	Deviating C-O-C Angle From 120 for O1'		105.5	Degree
PLAT410_ALERT_2_G	Short Intra H...H Contact H7' ..H11B		2.06	Ang.
		x,y,z =	1_555	Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels		2	Note
PLAT860_ALERT_3_G	Number of Least-Squares Restraints		29	Note
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).		1	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600		6	Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File		2	Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.		19	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
16 **ALERT level G** = General information/check it is not something unexpected

- 1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
10 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
5 ALERT type 4 Improvement, methodology, query or suggestion
0 ALERT type 5 Informative message, check
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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.

