

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) exp_1242

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: exp_1242

Bond precision:	C-C = 0.0095 A	Wavelength=1.54184
Cell:	a=19.2386(5)	b=14.0313(3) c=15.2313(4)
	alpha=90	beta=95.628(2) gamma=90
Temperature:	100 K	
	Calculated	Reported
Volume	4091.76(18)	4091.76(18)
Space group	C c	C 1 c 1
Hall group	C -2yc	C -2yc
Moiety formula	C49 H43 N3 O, C H Cl3	C H Cl3, C49 H43 N3 O
Sum formula	C50 H44 Cl3 N3 O	C50 H44 Cl3 N3 O
Mr	809.23	809.23
Dx,g cm-3	1.314	1.314
Z	4	4
Mu (mm-1)	2.353	2.353
F000	1696.0	1696.0
F000'	1704.36	
h,k,lmax	22,16,18	22,16,18
Nref	7222[3615]	4376
Tmin,Tmax	0.790,0.889	0.758,1.000
Tmin'	0.790	

Correction method= # Reported T Limits: Tmin=0.758 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 1.21/0.61 Theta(max)= 66.595

R(reflections)= 0.0734(4142) wR2(reflections)= 0.1978(4376)

S = 1.021 Npar= 520

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 B

PLAT220_ALERT_2_B	NonSolvent	Resd 1	C	Ueq(max)/Ueq(min)	Range	7.6	Ratio
PLAT416_ALERT_2_B	Short Intra D-H..H-D		H2	..H3	.	1.80	Ang.
				x,y,z	=	1_555	Check

Alert level C

PLAT089_ALERT_3_C	Poor Data / Parameter Ratio (Zmax < 18)	6.95	Note
PLAT222_ALERT_3_C	NonSolvent Resd 1	H Uiso(max)/Uiso(min) Range	8.6	Ratio
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of		C4	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of		C2	Check
PLAT340_ALERT_3_C	Low Bond Precision on C-C Bonds	0.00955	Ang.
PLAT413_ALERT_2_C	Short Inter XH3 .. XHn	H1B ..H9A	2.10	Ang.
		x,2-y,1/2+z	=	2_575 Check
PLAT416_ALERT_2_C	Short Intra D-H..H-D	H1 ..H2	1.92	Ang.
		x,y,z	=	1_555 Check

Alert level G

PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	16	Report
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms	3	Report
PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ	Please	Check
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large	0.15	Report
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	6.08	Why ?
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	3	Report
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records	4	Report
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	2	Note
	C H Cl3		
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	131	Note
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	92%	Note
PLAT915_ALERT_3_G	No Flack x Check Done: Low Friedel Pair Coverage	21	%
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	2.0	Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	2	Info

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
2 **ALERT level B** = A potentially serious problem, consider carefully
7 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
13 **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
7 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
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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.

