

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) psu-178da-110

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: psu-178da-110

Bond precision: C-C = 0.0033 A

Wavelength=0.71073

Cell: a=11.3512(15) b=11.9295(17) c=12.7758(14)
 alpha=111.014(11) beta=112.456(11) gamma=91.693(11)
Temperature: 295 K

	Calculated	Reported
Volume	1464.4(4)	1464.4(3)
Space group	P -1	P -1
Hall group	-P 1	?
Moiety formula	C28 H27 N O8, C H Cl3	C28 H27 N O8, C H Cl3
Sum formula	C29 H28 Cl3 N O8	C29 H28 Cl3 N O8
Mr	624.87	624.87
Dx,g cm-3	1.417	1.417
Z	2	2
Mu (mm-1)	0.364	0.364
F000	648.0	648.0
F000'	649.20	
h,k,lmax	15,16,17	15,16,17
Nref	8045	6770
Tmin,Tmax	0.926,0.943	0.951,1.000
Tmin'	0.926	

Correction method= # Reported T Limits: Tmin=0.951 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 0.842

Theta(max)= 29.340

R(reflections)= 0.0603(4752)

wR2(reflections)= 0.1746(6770)

S = 1.046

Npar= 415

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

PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C5	Check
PLAT906_ALERT_3_C	Large K value in the Analysis of Variance	8.594	Check
PLAT910_ALERT_3_C	Missing # of FCF Reflection(s) Below Theta(Min)	7	Note
PLAT911_ALERT_3_C	Missing # FCF Refl Between THmin & STh/L= 0.600	3	Report
PLAT978_ALERT_2_C	Number C-C Bonds with Positive Residual Density.	0	Note

● Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	8	Note
PLAT005_ALERT_5_G	No Embedded Refinement Details found in the CIF	Please	Do !
PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)	0.011	Degree
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 2)..	100	% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 3)..	100	% Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms (3.45) in Resd. #	2	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms (1.55) in Resd. #	3	Check
PLAT793_ALERT_4_G	The Model has Chirality at C2 (Centro SPGR)	R	Verify
PLAT793_ALERT_4_G	The Model has Chirality at C3 (Centro SPGR)	R	Verify
PLAT793_ALERT_4_G	The Model has Chirality at C4 (Centro SPGR)	R	Verify
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	30	Note
PLAT899_ALERT_4_G	SHELXL97 is Deprecated and Succeeded by SHELXL	2014	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	1271	Note
PLAT961_ALERT_5_G	Dataset Contains no Negative Intensities	Please	Check

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
14 **ALERT level G** = General information/check it is not something unexpected

1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
3 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
9 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.

