

checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

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: I

Bond precision:	C-C = 0.0200 A	Wavelength=0.71073
Cell:	a=13.0062(18)	b=19.617(4) c=6.3852(13)
	alpha=90	beta=90 gamma=90
Temperature:	296 K	
	Calculated	Reported
Volume	1629.1(5)	1629.1(5)
Space group	P n m a	P n m a
Hall group	-P 2ac 2n	-P 2ac 2n
Moiety formula	I4 Sn, 2(C2 H8 N O)	?
Sum formula	C4 H16 I4 N2 O2 Sn	C4 H16 I4 N2 O2 Sn
Mr	750.50	750.48
Dx,g cm-3	3.060	3.060
Z	4	4
Mu (mm-1)	9.131	9.131
F000	1328.0	1328.0
F000'	1318.38	
h,k,lmax	15,23,7	15,23,7
Nref	1498	1492
Tmin,Tmax	0.093,0.633	0.477,0.745
Tmin'	0.001	
Correction method=	# Reported T Limits: Tmin=0.477 Tmax=0.745	
AbsCorr =	MULTI-SCAN	
Data completeness=	0.996	Theta(max)= 25.080
R(reflections)=	0.0335(1320)	wR2(reflections)= 0.0841(1492)
S =	1.068	Npar= 67

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

PLAT223_ALERT_4_C	Solv./Anion Resd 2 H	Ueq(max)/Ueq(min) Range	4.9 Ratio
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C1 Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C2 Check
PLAT342_ALERT_3_C	Low Bond Precision on	C-C Bonds	0.02 Ang.



Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	5 Note
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	1 Info
PLAT005_ALERT_5_G	No Embedded Refinement Details Found in the CIF	Please Do !
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms	4 Report
PLAT063_ALERT_4_G	Crystal Size Likely too Large for Beam Size	0.74 mm
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	18.28 Why ?
PLAT093_ALERT_1_G	No s.u.'s on H-positions, Refinement Reported as	mixed Check
PLAT794_ALERT_5_G	Tentative Bond Valency for Sn1 (II)	2.20 Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	3 Note

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- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
4 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
9 **ALERT level G** = General information/check it is not something unexpected
- 1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
4 ALERT type 2 Indicator that the structure model may be wrong or deficient
2 ALERT type 3 Indicator that the structure quality may be low
2 ALERT type 4 Improvement, methodology, query or suggestion
4 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.

Datablock I - ellipsoid plot

