

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: p21

Bond precision:	C-C = 0.0200 A	Wavelength=0.71073
Cell:	a=8.4404(4)	b=9.3829(5) c=17.692(1)
	alpha=90	beta=115.385(4) gamma=90
Temperature:	293 K	
	Calculated	Reported
Volume	1265.84(12)	1265.84(12)
Space group	P 21/c	P 21/c
Hall group	-P 2ybc	-P 2ybc
Moiety formula	2(C8 H16 N), Cl6 Sn	Cl6 H32 Cl6 N2 Sn
Sum formula	C16 H32 Cl6 N2 Sn	C16 H32 Cl6 N2 Sn
Mr	583.85	583.82
Dx,g cm-3	1.532	1.532
Z	2	2
Mu (mm-1)	1.647	1.647
F000	588.0	588.0
F000'	588.57	
h,k,lmax	10,11,21	10,11,21
Nref	2222	2252
Tmin,Tmax	0.715,0.731	0.715,0.731
Tmin'	0.701	

Correction method= # Reported T Limits: Tmin=0.715 Tmax=0.731
AbsCorr = MULTI-SCAN

Data completeness= 1.014 Theta(max)= 25.026

R(reflections)= 0.0650(2087) wR2(reflections)= 0.1950(2252)

S = 1.219 Npar= 126

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

PLAT018_ALERT_1_C	_diffn_measured_fraction_theta_max .NE. *_full	!	Check
PLAT021_ALERT_4_C	Ratio Unique / Expected Reflections too High ...	1.014	
PLAT029_ALERT_3_C	_diffn_measured_fraction_theta_full value Low .	0.972	Why?
PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	2.34	Report
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	N1	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	Sn1	Check
PLAT245_ALERT_2_C	U(iso) H2 Smaller than U(eq) C2 by	0.012	Ang**2
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds	0.02	Ang.
PLAT480_ALERT_4_C	Long H...A H-Bond Reported H7A ..CL3 .	2.87	Ang.
PLAT480_ALERT_4_C	Long H...A H-Bond Reported H4A ..CL1 .	2.89	Ang.
PLAT480_ALERT_4_C	Long H...A H-Bond Reported H1B ..CL3 .	2.90	Ang.
PLAT480_ALERT_4_C	Long H...A H-Bond Reported H7A ..CL3 .	2.87	Ang.
PLAT480_ALERT_4_C	Long H...A H-Bond Reported H4A ..CL1 .	2.89	Ang.

● Alert level G

PLAT005_ALERT_5_G	No Embedded Refinement Details Found in the CIF	Please Do !
PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ	Please Check
PLAT066_ALERT_1_G	Predicted and Reported Tmin&Tmax Range Identical	? Check
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	17.72 Why ?
PLAT128_ALERT_4_G	Alternate Setting for Input Space Group P21/c	P21/n Note
PLAT164_ALERT_4_G	Nr. of Refined C-H H-Atoms in Heavy-Atom Struct.	2 Note
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature (K)	293 Check
PLAT200_ALERT_1_G	Reported _diffn_ambient_temperature (K)	293 Check
PLAT794_ALERT_5_G	Tentative Bond Valency for Sn1 (IV) .	3.95 Info

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
13 **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
- 5 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
5 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
8 ALERT type 4 Improvement, methodology, query or suggestion
2 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.

