

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: jwj021r_a

Bond precision:	C-C = 0.0108 A	Wavelength=0.71073	
Cell:	a=12.8306(10)	b=20.4640(17)	c=8.8888(7)
	alpha=90	beta=99.654(1)	gamma=90
Temperature:	296 K		
	Calculated	Reported	
Volume	2300.8(3)	2300.8(3)	
Space group	P 21/c	P2(1)/c	
Hall group	-P 2ybc	?	
Moiety formula	C20 H31 N2 O4 Sn	C20 H31 N2 O4 Sn	
Sum formula	C20 H31 N2 O4 Sn	C20 H31 N2 O4 Sn	
Mr	482.18	482.16	
Dx,g cm-3	1.392	1.392	
Z	4	4	
Mu (mm-1)	1.135	1.135	
F000	988.0	988.0	
F000'	985.75		
h,k,lmax	15,24,10	15,24,10	
Nref	4095	4088	
Tmin,Tmax	0.694,0.762	0.706,0.772	
Tmin'	0.681		

Correction method= # Reported T Limits: Tmin=0.706 Tmax=0.772
AbsCorr = MULTI-SCAN

Data completeness= 0.998 Theta(max)= 25.100

R(reflections)= 0.0431(3622) wR2(reflections)= 0.1168(4088)

S = 1.073 Npar= 251

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**

PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	2.40	Report
PLAT220_ALERT_2_C	NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range	3.1	Ratio
PLAT234_ALERT_4_C	Large Hirshfeld Difference C18 --C19 .	0.19	Ang.
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C5	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C13	Check
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	C12	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C16	Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including Sn1	0.104	Check
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds	0.01081	Ang.
PLAT430_ALERT_2_C	Short Inter D...A Contact O2 ..02 .	2.85	Ang.
	-x,1-y,1-z =	3_566	Check

● **Alert level G**

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	9	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	4	Report
PLAT005_ALERT_5_G	No Embedded Refinement Details Found in the CIF		Please Do !
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	28	Note
PLAT899_ALERT_4_G	SHELXL97 is Deprecated and Succeeded by SHELXL/	2018	Note

0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
11 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
5 **ALERT level G** = General information/check it is not something unexpected

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
11 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
1 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.

PLATON version of 03/06/2021; check.def file version of 02/06/2021

