

## 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: jwj0165

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Bond precision:    C-C = 0.0043 A                      Wavelength=0.71073

Cell:                      a=10.777(4)              b=9.044(3)              c=20.784(7)  
                                    alpha=90              beta=99.399(5)              gamma=90

Temperature:              293 K

	Calculated	Reported
Volume	1998.6(12)	1998.6(12)
Space group	P 21/n	P2(1)/n
Hall group	-P 2yn	?
Moiety formula	C21 H18 N2 O4 Sn	C21 H18 N2 O4 Sn
Sum formula	C21 H18 N2 O4 Sn	C21 H18 N2 O4 Sn
Mr	481.08	481.06
Dx, g cm <sup>-3</sup>	1.599	1.599
Z	4	4
Mu (mm <sup>-1</sup> )	1.307	1.307
F000	960.0	960.0
F000'	957.76	
h, k, lmax	12, 10, 24	12, 10, 24
Nref	3553	3533
Tmin, Tmax	0.758, 0.770	0.762, 0.780
Tmin'	0.743	

Correction method= # Reported T Limits: Tmin=0.762 Tmax=0.780  
AbsCorr = MULTI-SCAN

Data completeness= 0.994                      Theta(max)= 25.100

R(reflections)= 0.0222( 3050)

wR2(reflections)=  
0.0507( 3533)

S = 1.075

Npar= 294

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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.

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● **Alert level C**

PLAT199_ALERT_1_C	Reported _cell_measurement_temperature .....	(K)	293	Check
PLAT200_ALERT_1_C	Reported _diffrn_ambient_temperature .....	(K)	293	Check

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● **Alert level G**

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite		10	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 !
PLAT301_ALERT_3_G	Main Residue Disorder .....	(Resd 1 )	18%	Note
PLAT398_ALERT_2_G	Deviating C-O-C Angle From 120 for O4		105.6	Degree
PLAT398_ALERT_2_G	Deviating C-O-C Angle From 120 for O4A		108.4	Degree
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...		13.90	Deg.
	C1A -C5 -C1 1_555 1_555 1_555 .....	#	28	Check
PLAT860_ALERT_3_G	Number of Least-Squares Restraints .....		10	Note
PLAT899_ALERT_4_G	SHELXL97 is Deprecated and Succeeded by SHELXL/		2018	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  
2 **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
- 2 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  
2 ALERT type 3 Indicator that the structure quality may be low  
2 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.

