

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: jwj0134

Bond precision: C-C = 0.0080 Å Wavelength=0.71073

Cell: a=10.637(3) b=12.087(3) c=12.177(3)
 alpha=100.935(3) beta=108.490(3) gamma=104.481(3)
Temperature: 296 K

	Calculated	Reported
Volume	1374.5(6)	1374.5(6)
Space group	P -1	P-1
Hall group	-P 1	?
Moiety formula	C24 H40 N2 O4 Sn	C24 H40 N2 O4 Sn
Sum formula	C24 H40 N2 O4 Sn	C24 H40 N2 O4 Sn
Mr	539.29	539.27
Dx, g cm ⁻³	1.303	1.303
Z	2	2
Mu (mm ⁻¹)	0.957	0.957
F000	560.0	560.0
F000'	558.89	
h, k, lmax	12, 14, 14	12, 14, 14
Nref	4896	4865
Tmin, Tmax	0.818, 0.826	0.824, 0.832
Tmin'	0.818	

Correction method= # Reported T Limits: Tmin=0.824 Tmax=0.832
AbsCorr = MULTI-SCAN

Data completeness= 0.994 Theta(max)= 25.100

R(reflections)= 0.0378(4198)	wR2(reflections)=
S = 1.071	0.1177(4865)
Npar= 372	

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

PLAT220_ALERT_2_C	NonSolvent	Resd 1	C	Ueq(max)/Ueq(min)	Range	4.3	Ratio
PLAT222_ALERT_3_C	NonSolvent	Resd 1	H	Uiso(max)/Uiso(min)	Range	4.3	Ratio
PLAT234_ALERT_4_C	Large Hirshfeld Difference	Sn1A	--O1	.		0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	Sn1A	--C16	.		0.21	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	Sn1A	--C20	.		0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C12	--C14A	.		0.19	Ang.
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of			O4	Check
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			C4	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
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of			C20	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of			C22	Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including		Sn1			0.131	Check



Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite					19	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...					17	Report
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)					0.003	Degree
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X)	Sn1	--O2	.		5.0	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X)	Sn1	--O4	.		5.3	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X)	Sn1A	--O2	.		12.0	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X)	Sn1A	--O4	.		17.8	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X)	Sn1A	--N1	.		11.5	s.u.
PLAT301_ALERT_3_G	Main Residue Disorder	(Resd 1)				29%	Note
PLAT410_ALERT_2_G	Short Intra H...H Contact	H16A	..H18B	.		2.05	Ang.
			x,y,z =			1_555	Check
PLAT412_ALERT_2_G	Short Intra XH3 .. XHn	H3	..H13D	.		1.98	Ang.
			x,y,z =			1_555	Check
PLAT721_ALERT_1_G	Bond Calc	0.97000, Rep	0.96000 Dev...			0.01	Ang.
	C19 -H19C	1_555	1_555	.....	#	84	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...					35.10	Deg.
	C10 -C8 -C10A	1_555	1_555	1_555	.....	#	45 Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...					6.70	Deg.
	SN1 -C20 -SN1A	1_555	1_555	1_555	.....	#	51 Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...					6.00	Deg.
	SN1 -C16 -SN1A	1_555	1_555	1_555	.....	#	61 Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...					2.70	Deg.
	SN1A -N1 -SN1	1_555	1_555	1_555	.....	#	99 Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...					6.50	Deg.
	SN1 -O1 -SN1A	1_555	1_555	1_555	.....	#	103 Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...					34.40	Deg.
	C14A -C12 -C15	1_555	1_555	1_555	.....	#	112 Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...					43.20	Deg.
	C13 -C12 -C15A	1_555	1_555	1_555	.....	#	113 Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...					40.00	Deg.
	C14 -C12 -C13A	1_555	1_555	1_555	.....	#	124 Check
PLAT789_ALERT_4_G	Atoms with Negative _atom_site_disorder_group				#	1	Check

PLAT811_ALERT_5_G	No ADDSYM Analysis: Too Many Excluded Atoms	! Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	162 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
14	ALERT level C	= Check. Ensure it is not caused by an omission or oversight
25	ALERT level G	= General information/check it is not something unexpected

2	ALERT type 1	CIF construction/syntax error, inconsistent or missing data
18	ALERT type 2	Indicator that the structure model may be wrong or deficient
3	ALERT type 3	Indicator that the structure quality may be low
14	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.

PLATON version of 13/07/2021; check.def file version of 13/07/2021

