

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 20250509sl-12-53-p2-1_auto

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: 20250509sl-12-53-p2-1_auto

Bond precision: C-C = 0.0075 Å Wavelength=1.54184

Cell: a=8.8178(1) b=16.3194(1) c=10.7859(1)
 alpha=90 beta=107.648(1) gamma=90

Temperature: 100 K

	Calculated	Reported
Volume	1479.06(2)	1479.06(2)
Space group	P 21	P 1 21 1
Hall group	P 2yb	P 2yb
Moiety formula	C36 H35 Cl Ir N3 O	C36 H35 Cl Ir N3 O
Sum formula	C36 H35 Cl Ir N3 O	C36 H35 Cl Ir N3 O
Mr	753.34	753.32
Dx, g cm ⁻³	1.692	1.692
Z	2	2
Mu (mm ⁻¹)	9.834	9.834
F000	748.0	748.0
F000'	740.74	
h,k,lmax	11,20,13	10,19,13
Nref	6145[3184]	5702
Tmin,Tmax	0.213,0.229	0.581,1.000
Tmin'	0.136	

Correction method= # Reported T Limits: Tmin=0.581 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 1.79/0.93 Theta(max)= 75.754

R(reflections)= 0.0209(5694)

wR2(reflections)=
0.0554(5702)

S = 1.059

Npar= 382

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

PLAT090_ALERT_3_C Poor Data / Parameter Ratio (Zmax > 18)	7.98	Note
PLAT911_ALERT_3_C Missing FCF Refl Between Thmin & STh/L= 0.600	4	Report
1 0 0, -2 0 1, 1 1 1, 5 10 7,		



Alert level G

PLAT142_ALERT_4_G s.u. on b - Axis Small or Missing	0.00010	Ang.
PLAT143_ALERT_4_G s.u. on c - Axis Small or Missing	0.00010	Ang.
PLAT153_ALERT_1_G The s.u.'s on the Cell Axes are Equal ..(Note)	0.0001	Ang.
PLAT791_ALERT_4_G Model has Chirality at C14 (Sohncke SpGr)		R Verify
PLAT912_ALERT_4_G Missing # of FCF Reflections Above STh/L= 0.600	111	Note
PLAT913_ALERT_3_G Missing # of Very Strong Reflections in FCF	2	Note
1 0 0, 1 1 1,		
PLAT933_ALERT_2_G Number of HKL-OMIT Records in Embedded .res File	1	Note
3 8 9,		
PLAT961_ALERT_5_G Dataset Contains no Negative Intensities		Please Check
PLAT969_ALERT_5_G The 'Henn et al.' R-Factor-gap value	3.591	Note
Predicted wR2: Based on SigI**2 1.54 or SHELX Weight 5.23		
PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density.	3	Info

- 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
10 **ALERT level G** = General information/check it is not something unexpected

- 1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
2 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
4 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.

