

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: cs41_0m

Bond precision: C-C = 0.0044 A

Wavelength=0.71073

Cell: a=40.6382(15) b=12.2295(5) c=24.2274(9)
 alpha=90 beta=125.090(1) gamma=90
Temperature: 110 K

	Calculated	Reported
Volume	9852.3(7)	9852.3(7)
Space group	C 2/c	C 2/c
Hall group	-C 2yc	-C 2yc
Moiety formula	C52 H45 B Ir O2 P4, C4 H8 O, Br	C52 H45 B Ir O2 P4, C4 H8 O, Br
Sum formula	C56 H53 B Br Ir O3 P4	C56 H53 B Br Ir O3 P4
Mr	1180.79	1180.79
Dx, g cm-3	1.592	1.577
Z	8	8
Mu (mm-1)	3.696	3.696
F000	4720.0	4624.0
F000'	4711.09	
h,k,lmax	59,17,35	58,17,34
Nref	16085	14758
Tmin,Tmax	0.435,0.618	0.056,0.101
Tmin'	0.327	

Correction method= # Reported T Limits: Tmin=0.056 Tmax=0.101
AbsCorr = NUMERICAL

Data completeness= 0.918

Theta(max)= 31.282

R(reflections)= 0.0277(13053)

wR2(reflections)= 0.0728(14758)

S = 1.023

Npar= 599

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

PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or Missing)... Please Check

Alert level G

PLAT083_ALERT_2_G SHELXL Second Parameter in WGHT Unusually Large 47.22 Why ?
PLAT128_ALERT_4_G Alternate Setting for Input Space Group C2/c I2/a Note
PLAT232_ALERT_2_G Hirshfeld Test Diff (M-X) Ir1 --C00Q . 6.6 s.u.
PLAT232_ALERT_2_G Hirshfeld Test Diff (M-X) Ir1 --C00R . 7.2 s.u.
PLAT398_ALERT_2_G Deviating C-O-C Angle From 120 for O00B 104.5 Degree
PLAT720_ALERT_4_G Number of Unusual/Non-Standard Labels 110 Note
PLAT793_ALERT_4_G Model has Chirality at P4 (Centro SPGR) R Verify
PLAT883_ALERT_1_G No Info/Value for _atom_sites_solution_primary . Please Do !

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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
1 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
8 **ALERT level G** = General information/check it is not something unexpected
- 2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
4 ALERT type 2 Indicator that the structure model may be wrong or deficient
0 ALERT type 3 Indicator that the structure quality may be low
3 ALERT type 4 Improvement, methodology, query or suggestion
0 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.

