

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: 1_a

Bond precision: C-C = 0.0088 Å Wavelength=0.71073

Cell: a=13.6338(10) b=23.4552(18) c=14.2487(10)
 alpha=90 beta=93.489(3) gamma=90

Temperature: 193 K

	Calculated	Reported
Volume	4548.1(6)	4548.1(6)
Space group	P 21/n	P 1 21/n 1
Hall group	-P 2yn	-P 2yn
Moiety formula	C33 H63 Cl4 Ir2 N3 P2 U, C7 H8	C33 H63 Cl4 Ir2 N3 P2 U, C7 H8
Sum formula	C40 H71 Cl4 Ir2 N3 P2 U	C40 H71 Cl4 Ir2 N3 P2 U
Mr	1420.21	1420.16
Dx, g cm ⁻³	2.074	2.074
Z	4	4
Mu (mm ⁻¹)	9.727	9.727
F000	2704.0	2704.0
F000'	2658.94	
h,k,lmax	17,30,18	17,30,18
Nref	10442	10427
Tmin,Tmax	0.393,0.378	0.668,0.746
Tmin'	0.364	

Correction method= # Reported T Limits: Tmin=0.668 Tmax=0.746
AbsCorr = MULTI-SCAN

Data completeness= 0.999 Theta(max)= 27.484

R(reflections)= 0.0315(8376)

wR2(reflections)=
0.0582(10427)

S = 1.036

Npar= 479

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

PLAT244_ALERT_4_C	Low	'Solvent' Ueq as Compared to Neighbors of	C35 Check
PLAT331_ALERT_2_C	Small	Aver Phenyl C-C Dist C35 --C40 .	1.37 Ang.
PLAT342_ALERT_3_C	Low	Bond Precision on C-C Bonds	0.00879 Ang.
PLAT601_ALERT_2_C	Unit Cell	Contains Solvent Accessible VOIDS of .	32 Ang**3



Alert level G

PLAT012_ALERT_1_G	No	_shelx_res_checksum Found in CIF	Please Check
PLAT083_ALERT_2_G	SHELXL	Second Parameter in WGHT Unusually Large	14.09 Why ?
PLAT794_ALERT_5_G	Tentative	Bond Valency for U1 (IV) .	3.74 Info
PLAT883_ALERT_1_G	No Info/Value	for _atom_sites_solution_primary .	Please Do !

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
4 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
4 **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
1 ALERT type 3 Indicator that the structure quality may be low
1 ALERT type 4 Improvement, methodology, query or suggestion
1 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.

