

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) exp_1335

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: exp_1335

Bond precision:	C-C = 0.0074 A	Wavelength=1.54184
Cell:	a=15.5926(4)	b=11.3061(3) c=16.9999(5)
	alpha=90	beta=104.232(3) gamma=90
Temperature:	100 K	
	Calculated	Reported
Volume	2904.96(14)	2904.95(15)
Space group	P 21/c	P 1 21/c 1
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C64 H54 N6 Pd2, 2(C H Cl3)	C64 H54 N6 Pd2, 2(C H Cl3)
Sum formula	C66 H56 Cl6 N6 Pd2	C66 H56 Cl6 N6 Pd2
Mr	1358.67	1358.66
Dx,g cm-3	1.553	1.553
Z	2	2
Mu (mm-1)	7.907	7.907
F000	1376.0	1376.0
F000'	1383.68	
h,k,lmax	18,13,20	18,13,20
Nref	5140	5136
Tmin,Tmax	0.522,0.854	0.660,1.000
Tmin'	0.394	

Correction method= # Reported T Limits: Tmin=0.660 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 0.999 Theta(max)= 66.596

R(reflections)= 0.0513(4234) wR2(reflections)= 0.1406(5136)

S = 1.028 Npar= 367

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	C33	Check
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance	2.253	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.595	5	Report
PLAT971_ALERT_2_C	Check Calcd Resid. Dens. 1.87A From Cl2	1.94	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H27	-0.31	eA-3



Alert level G

PLAT794_ALERT_5_G	Tentative Bond Valency for Pd2 (II) .	2.34	Info
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	77%	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	2.1	Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	1	Info

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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
5 **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
- 0 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
4 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.

PLATON version of 18/09/2020; check.def file version of 20/08/2020

Datablock exp_1335 - ellipsoid plot

