

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) exp_2204_sq

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_2204_sq

Bond precision:	C-C = 0.0081 Å	Wavelength=1.54184
Cell:	a=15.7666(5)	b=13.1945(3) c=15.9606(5)
	alpha=90	beta=114.654(3) gamma=90
Temperature:	100 K	
	Calculated	Reported
Volume	3017.65(17)	3017.65(16)
Space group	P 21/c	P 1 21/c 1
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C64 H53 Br N6 Pd2 [+ solvent]	C64 H53 Br N6 Pd2
Sum formula	C64 H53 Br N6 Pd2 [+ solvent]	C64 H53 Br N6 Pd2
Mr	1198.82	1198.83
Dx, g cm ⁻³	1.319	1.319
Z	2	2
Mu (mm ⁻¹)	5.900	5.900
F000	1212.0	1212.0
F000'	1213.80	
h, k, lmax	18, 15, 18	18, 15, 18
Nref	5345	5344
Tmin, Tmax	0.517, 0.554	0.343, 1.000
Tmin'	0.293	

Correction method= # Reported T Limits: Tmin=0.343 Tmax=1.000

AbsCorr = MULTI-SCAN

Data completeness= 1.000

Theta(max)= 66.599

R(reflections)= 0.0516(4563)

wR2(reflections)=
0.1513(5344)

S = 1.079

Npar= 340

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	3.1	Ratio
PLAT342_ALERT_3_C	Low Bond Precision on	C-C Bonds	.....			0.00812	Ang.
PLAT911_ALERT_3_C	Missing FCF Refl Between	Thmin & STh/L=	0.595			2	Report
PLAT976_ALERT_2_C	Check Calcd Resid. Dens.	1.06Ang	From N2	.		-0.43	eA-3



Alert level G

PLAT003_ALERT_2_G	Number of Uiso or Uij	Restrained non-H Atoms	...			1	Report
PLAT186_ALERT_4_G	The CIF-Embedded .res File	Contains ISOR Records				1	Report
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X)	Pd1	--N3	.		5.2	s.u.
PLAT300_ALERT_4_G	Atom Site Occupancy of Br1		Constrained at			0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H5		Constrained at			0.5	Check
PLAT301_ALERT_3_G	Main Residue Disorder	.....(Resd 1)				1%	Note
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl	Moiety	.....			C23	Check
PLAT605_ALERT_4_G	Largest Solvent Accessible VOID	in the Structure				146	A**3
PLAT794_ALERT_5_G	Tentative Bond Valency for Pd1	(II)	.			2.29	Info
PLAT860_ALERT_3_G	Number of Least-Squares	Restraints	.....			6	Note
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary	.				Please	Do !
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data	at Theta(Max)	Still			81%	Note
PLAT941_ALERT_3_G	Average HKL Measurement	Multiplicity	.....			1.9	Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive	Residual Density.				2	Info

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

1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
5 ALERT type 2 Indicator that the structure model may be wrong or deficient
6 ALERT type 3 Indicator that the structure quality may be low
5 ALERT type 4 Improvement, methodology, query or suggestion
1 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.

