

## checkCIF/PLATON report

Structure factors have been supplied for datablock(s) EB52RT

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: EB52RT

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Bond precision:	C-C = 0.0034 A	Wavelength=0.62000
Cell:	a=12.186(2)	b=12.335(2)      c=13.003(3)
	alpha=83.54(3)	beta=81.05(3)      gamma=88.43(3)
Temperature:	298 K	
	Calculated	Reported
Volume	1918.4(7)	1918.6(7)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C41 H43 N O3 P Pd, Cl O4	C41 H43 N O3 P Pd, Cl O4
Sum formula	C41 H43 Cl N O7 P Pd	C41 H43 Cl N O7 P Pd
Mr	834.58	834.58
Dx, g cm <sup>-3</sup>	1.445	1.445
Z	2	2
Mu (mm <sup>-1</sup> )	0.444	0.444
F000	860.0	860.0
F000'	857.84	
h, k, lmax		18, 19, 20
Nref		16038
Tmin, Tmax	0.974, 0.991	
Tmin'	0.957	
Correction method=	Not given	
Data completeness=		Theta(max)= 31.096
R(reflections)= 0.0405( 14298)		wR2(reflections)= 0.1263( 16038)
S = 1.042	Npar= 569	

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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.

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### Alert level C

PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	C2_3	Check													
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	Pd_1	Check													
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C1_2	Check													
PLAT260_ALERT_2_C	Large	Average	Ueq of Residue Including	ClA_5	0.240 Check													
PLAT260_ALERT_2_C	Large	Average	Ueq of Residue Including	ClB_5	0.261 Check													
PLAT906_ALERT_3_C	Large	K Value	in the Analysis of Variance .....	2.159	Check													
PLAT911_ALERT_3_C	Missing	FCF Refl	Between Thmin & STh/L=	0.600	138 Report													
	11	0	0,	12	0	0,	13	0	0,	14	0	0,	-14	1	0,	-13	1	0,
	-12	1	0,	-11	1	0,	-10	1	0,	-9	1	0,	-4	1	0,	0	1	0,
	6	1	0,	13	1	0,	14	1	0,	-14	2	0,	-13	2	0,	-12	2	0,
	-11	2	0,	-10	2	0,	-9	2	0,	-6	2	0,	14	2	0,	-14	3	0,
	-13	3	0,	-12	3	0,	-11	3	0,	-10	3	0,	-13	4	0,	-12	4	0,
	-11	4	0,	-13	5	0,	-12	5	0,	-5	5	0,	1	5	0,	-13	6	0,
	1	10	0,	-2	-6	1,	3	-6	1,	4	-4	1,	13	-4	1,	13	-3	1,
	14	-3	1,	-14	-2	1,	-13	-2	1,	8	-2	1,	12	-2	1,	13	-2	1,
	14	-2	1,	-14	-1	1,	-13	-1	1,	-12	-1	1,	-11	-1	1,	13	-1	1,
	14	-1	1,	-14	0	1,	-13	0	1,	-12	0	1,	-11	0	1,	-10	0	1,
	-9	0	1,	-8	0	1,	5	0	1,	13	0	1,	14	0	1,	-14	1	1,
	-13	1	1,	-12	1	1,	-11	1	1,	-10	1	1,	-9	1	1,	-8	1	1,
	-14	2	1,	-13	2	1,	-12	2	1,	-11	2	1,	-10	2	1,	-9	2	1,
	-13	3	1,	-12	3	1,	-11	3	1,	-10	3	1,	-13	4	1,	-12	4	1,
	-11	4	1,	-13	5	1,	-12	5	1,	3	-5	2,	-13	-2	2,	-1	-2	2,
	-13	-1	2,	-12	-1	2,	-11	-1	2,	-6	-1	2,	0	-1	2,	-14	0	2,



### Alert level G

ABSMU01_ALERT_1_G	Calculation of _exptl_absorpt_correction_mu	
	not performed for this radiation type.	
PLAT002_ALERT_2_G	Number of Distance or Angle Restrictions on AtSite	27 Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	2 Report
PLAT092_ALERT_4_G	Check: Wavelength Given is not Cu,Ga,Mo,Ag,In Ka	0.62000 Ang.
PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)	0.03 Degree
PLAT175_ALERT_4_G	The CIF-Embedded .res File Contains SAME Records	2 Report
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	4 Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	1 Report
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Pd_1 --C_2	8.4 s.u.
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 1 )	17% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 2 )	100% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 3 )	100% Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in ..... (Resd 2 )	3.47 Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in ..... (Resd 3 )	1.54 Check
PLAT410_ALERT_2_G	Short Intra H...H Contact H3_3 ..H8A_4	2.14 Ang.
	x,y,z =	1_555 Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels .....	115 Note
	Pd_1 N_2 C_2 C1_2 C2_2 H2A_2 H2B_2 C3_2	
	H3A_2 H3B_2 C4_2 H4A_2 H4B_2 C5_2 H5_2 C6_2	
	H6A_2 H6B_2 C7_2 H7_2 C8_2 H8A_2 H8B_2 C9_2	
	H9_2 C10_2 H10A_2 H10B_2 C1A_5 O1A_5 O2A_5	
	O4A_5 C1B_5 O1B_5 O2B_5 O3B_5 O4B_5 C4_3 H4_3	
	C5_3 H5_3 C6_3 H6_3 C9_3 C3_3 H3_3 C8_3	

C7_3	H7_3	C1_3	H1_3	C2_3	H2_3	P_4	C1_4
C6_4	H6_4	C5_4	H5_4	C4_4	C3_4	H3_4	C2_4
H2_4	C13_4	C14_4	H14_4	C15_4	H15_4	C16_4	C17_4
H17_4	C18_4	H18_4	Oa_4	Ca_4	Ha1_4	Ha2_4	Ha3_4
Oc_4	Cc_4	Hc1_4	Hc2_4	Hc3_4	C12A_4	H12A_4	C11A_4
H11A_4	C10A_4	C9A_4	H9A_4	C8A_4	H8A_4	C7A_4	ObA_4
CbA_4	Hb1_4	Hb2_4	Hb3_4	C12B_4	H12B_4	C11B_4	H11B_4
C10B_4	C9B_4	H9B_4	C8B_4	H8B_4	C7B_4	ObB_4	CbB_4
Hb4_4	Hb5_4	Hb6_4					
PLAT860_ALERT_3_G Number of Least-Squares Restraints .....							74 Note
PLAT912_ALERT_4_G Missing # of FCF Reflections Above STh/L= 0.600							2051 Note
PLAT933_ALERT_2_G Number of HKL-OMIT Records in Embedded .res File							10 Note
-6 2 0, 5 -3 3, 3 -6 1, 1 3 2, -1 -2 2, 1 -4 3,							
4 -4 1, 3 -3 3, 5 0 1, -4 1 0,							
PLAT950_ALERT_5_G Calculated (ThMax) and CIF-Reported Hmax Differ							2 Units
PLAT956_ALERT_1_G Calculated (ThMax) and Actual (FCF) Hmax Differ							2 Units
PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density.							10 Info
PLAT992_ALERT_5_G Repd & Actual _reflns_number_gt Values Differ by							7 Check

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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  
 7 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
 23 **ALERT level G** = General information/check it is not something unexpected

3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
 11 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  
 10 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.

