

## 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: PdtmedaCF3NN

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Bond precision:	C-C = 0.0073 A	Wavelength=0.71075	
Cell:	a=13.0204(19)	b=8.1491(10)	c=15.1590(19)
	alpha=90	beta=91.198(8)	gamma=90
Temperature:	193 K		
	Calculated	Reported	
Volume	1608.1(4)	1608.1(4)	
Space group	P 21/n	P 1 21/n 1	
Hall group	-P 2yn	-P 2yn	
Moiety formula	C10 H16 F6 N4 O2 Pd	C10 H16 F6 N4 O2 Pd	
Sum formula	C10 H16 F6 N4 O2 Pd	C10 H16 F6 N4 O2 Pd	
Mr	444.67	444.65	
Dx,g cm-3	1.837	1.836	
Z	4	4	
Mu (mm-1)	1.228	1.229	
F000	880.0	880.0	
F000'	876.60		
h,k,lmax	16,10,19	16,10,19	
Nref	3685	3647	
Tmin,Tmax	0.782,0.782	0.674,0.782	
Tmin'	0.782		

Correction method= # Reported T Limits: Tmin=0.674 Tmax=0.782  
AbsCorr = MULTI-SCAN

Data completeness= 0.990      Theta(max)= 27.472  
R(reflections)= 0.0417( 3299)      wR2(reflections)= 0.1130( 3647)

S = 1.146      Npar= 208

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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**

PLAT213\_ALERT\_2\_C Atom C5 has ADP max/min Ratio ..... 3.1 prolat  
PLAT220\_ALERT\_2\_C NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range 3.2 Ratio  
PLAT241\_ALERT\_2\_C High 'MainMol' Ueq as Compared to Neighbors of C5 Check  
PLAT242\_ALERT\_2\_C Low 'MainMol' Ueq as Compared to Neighbors of N3 Check  
PLAT242\_ALERT\_2\_C Low 'MainMol' Ueq as Compared to Neighbors of N4 Check  
PLAT360\_ALERT\_2\_C Short C(sp3)-C(sp3) Bond C5 - C6 . 1.35 Ang.

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● **Alert level G**

CHEMS02\_ALERT\_1\_G Please check that you have entered the correct  
\_publ\_requested\_category classification of your compound;  
FI or CI or EI for inorganic; FM or CM or EM for metal-organic;  
FO or CO or EO for organic.  
From the CIF: \_publ\_requested\_category CHOOSE FI FM FO CI CM CO or A  
From the CIF: \_chemical\_formula\_sum :C10 H16 F6 N4 O2 Pd1  
PLAT019\_ALERT\_1\_G \_diffrn\_measured\_fraction\_theta\_full/\*\_max < 1.0 0.998 Report  
PLAT242\_ALERT\_2\_G Low 'MainMol' Ueq as Compared to Neighbors of C1 Check  
PLAT242\_ALERT\_2\_G Low 'MainMol' Ueq as Compared to Neighbors of C4 Check  
PLAT794\_ALERT\_5\_G Tentative Bond Valency for Pd1 (II) . 2.13 Info  
PLAT941\_ALERT\_3\_G Average HKL Measurement Multiplicity ..... 3.3 Low

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

2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
8 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  
0 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.

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**PLATON version of 26/06/2020; check.def file version of 17/06/2020**

