

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) EB43

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: EB43

Bond precision: C-C = 0.0014 Å Wavelength=0.62000

Cell: a=15.006(3) b=10.701(2) c=18.944(4)
 alpha=90 beta=95.65(3) gamma=90

Temperature: 100 K

	Calculated	Reported
Volume	3027.2(11)	3027.2(11)
Space group	P 21/c	P 21/c
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C32 H28 F3 N P Pd, Cl O4	C32 H28 F3 N P Pd, ClO4
Sum formula	C32 H28 Cl F3 N O4 P Pd	C32 H28 Cl F3 N O4 P Pd
Mr	720.37	720.37
Dx, g cm ⁻³	1.581	1.581
Z	4	4
Mu (mm ⁻¹)	0.556	0.556
F000	1456.0	1456.0
F000'	1451.71	
h, k, lmax	25, 17, 31	25, 17, 29
Nref	14657	13152
Tmin, Tmax	0.967, 0.989	
Tmin'	0.946	

Correction method= Not given

Data completeness= 0.897 Theta(max)= 31.096

R(reflections)= 0.0262(12859)

wR2(reflections)=
0.0690(13152)

S = 1.076

Npar= 392

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

PLAT042_ALERT_1_C	Calc. and Reported MoietyFormula Strings Differ	Please Check
PLAT230_ALERT_2_C	Hirshfeld Test Diff for N_2 --C1_2 .	6.6 s.u.
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of	C1_5 Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.600	29 Report
PLAT977_ALERT_2_C	Check Negative Difference Density on H3_4 .	-0.35 eA-3



Alert level G

ABSMU01_ALERT_1_G	Calculation of _exptl_absorpt_correction_mu not performed for this radiation type.	
PLAT092_ALERT_4_G	Check: Wavelength Given is not Cu,Ga,Mo,Ag,In Ka	0.62000 Ang.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Pd_1 --C9_3 .	6.5 s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Pd_1 --C8_3 .	6.0 s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Pd_1 --C_2 .	14.7 s.u.
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	71 Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	1388 Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File	9 Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	4.8 Low
PLAT952_ALERT_5_G	Calculated (ThMax) and CIF-Reported Lmax Differ.	2 Units
PLAT953_ALERT_1_G	Reported (CIF) and Actual (FCF) Hmax Differ by .	1 Units
PLAT958_ALERT_1_G	Calculated (ThMax) and Actual (FCF) Lmax Differ.	2 Units
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	15 Info

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

- 4 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
7 ALERT type 2 Indicator that the structure model may be wrong or deficient
2 ALERT type 3 Indicator that the structure quality may be low
4 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.

