

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: 3-130-1

Bond precision: C-C = 0.0127 Å Wavelength=1.54184

Cell: a=9.8460 (1) b=15.3637 (2) c=17.0733 (3)
alpha=90 beta=90 gamma=90

Temperature: 293 K

	Calculated	Reported
Volume	2582.70 (6)	2582.70 (6)
Space group	P 21 21 21	P 21 21 21
Hall group	P 2ac 2ab	P 2ac 2ab
Moiety formula	C21 H31 F I N3 Pd	C21 H31 F I N3 Pd
Sum formula	C21 H31 F I N3 Pd	C21 H31 F I N3 Pd
Mr	577.79	577.79
Dx, g cm ⁻³	1.486	1.486
Z	4	4
Mu (mm ⁻¹)	15.306	15.306
F000	1144.0	1144.0
F000'	1146.09	
h, k, lmax	12,19,21	11,19,21
Nref	5280 [2984]	5108
Tmin, Tmax	0.199, 0.294	0.432, 1.000
Tmin'	0.094	

Correction method= # Reported T Limits: Tmin=0.432 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 1.71/0.97 Theta (max) = 74.234

R(reflections)= 0.0553 (4724) wR2 (reflections)=
0.1557 (5108)
S = 1.035 Npar= 181

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

PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	N1	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	N2	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	N3	Check
PLAT334_ALERT_2_C	Small	<C-C>	Benzene Dist. C1 -C6 .	1.37	Ang.
PLAT342_ALERT_3_C	Low	Bond Precision on	C-C Bonds	0.01275	Ang.
PLAT360_ALERT_2_C	Short	C(sp3)-C(sp3)	Bond C14 - C16 .	1.43	Ang.
PLAT360_ALERT_2_C	Short	C(sp3)-C(sp3)	Bond C15 - C16 .	1.43	Ang.

🟢 Alert level G

PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	10	Report
PLAT012_ALERT_1_G	N.O.K. _shelx_res_checksum Found in CIF	Please Check	
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	6.51	Why ?
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records	9	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	3	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	2	Report
PLAT187_ALERT_4_G	The CIF-Embedded .res File Contains RIGU Records	2	Report
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used	0.0001	Report
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used	0.0005	Report
PLAT190_ALERT_3_G	A Non-default RIGU Restraint Value for First Par	0.0010	Report
PLAT190_ALERT_3_G	A Non-default RIGU Restraint Value for SecondPar	0.0070	Report
PLAT190_ALERT_3_G	A Non-default RIGU Restraint Value for First Par	0.0010	Report
PLAT190_ALERT_3_G	A Non-default RIGU Restraint Value for SecondPar	0.0090	Report
PLAT192_ALERT_3_G	A Non-default DELU Restraint Value for First Par	0.0006	Report
PLAT192_ALERT_3_G	A Non-default DELU Restraint Value for SecondPar	0.0006	Report
PLAT192_ALERT_3_G	A Non-default DELU Restraint Value for First Par	0.0006	Report
PLAT192_ALERT_3_G	A Non-default DELU Restraint Value for SecondPar	0.0001	Report
PLAT192_ALERT_3_G	A Non-default DELU Restraint Value for First Par	0.0001	Report
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature	(K)	293 Check
PLAT200_ALERT_1_G	Reported _diffrn_ambient_temperature	(K)	293 Check
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) I1 --Pd1 .	9.3	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Pd1 --C7 .	8.3	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Pd1 --C17 .	6.0	s.u.
PLAT794_ALERT_5_G	Tentative Bond Valency for Pd1 (II) .	1.82	Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	241	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	4.4	Low

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

27 **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

15 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

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 06/01/2024; check.def file version of 05/01/2024

Datablock 3-130-1 - ellipsoid plot

