



checkCIF/PLATON report

Structure factors have been supplied for datablock(s) Pd6L8

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: Pd6L8

Bond precision:	C-C = 0.0120 Å	Wavelength=1.34050	
Cell:	a=36.6353 (5) alpha=90	b=36.6353 (5) beta=90	c=36.6353 (5) gamma=90
Temperature:	253 K		
	Calculated	Reported	
Volume	49170 (2)	49170 (2)	
Space group	F m -3 m	F m -3 m	
Hall group	-F 4 2 3	-F 4 2 3	
Moiety formula	C264 H192 N24 O16 P4 Pd3 [+ solvent]	C264 H192 N24 O16 P4 Pd3	
Sum formula	C264 H192 N24 O16 P4 Pd3 [+ solvent]	C264 H192 N24 O16 P4 Pd3	
Mr	4399.50	4399.50	
Dx, g cm ⁻³	1.189	1.189	
Z	8	8	
Mu (mm ⁻¹)	1.677	1.677	
F000	18160.0	18160.0	
F000'	18205.00		
h, k, lmax	37, 37, 37	36, 36, 36	
Nref	1399	1369	
Tmin, Tmax	0.551, 0.669	0.384, 1.000	
Tmin'	0.487		

Wavelength given = 1.34050

PLAT029_ALERT_3_C	_diffn_measured_fraction_theta_full value Low .	0.979	Why?
PLAT082_ALERT_2_C	High R1 Value	0.14	Report
PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	3.07	Report
PLAT220_ALERT_2_C	NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range	3.8	Ratio
PLAT234_ALERT_4_C	Large Hirshfeld Difference C10_1 --C11_1 .	0.17	Ang.
PLAT241_ALERT_2_C	High MainResAtom Ueq as Compared to Neighbours	N1_1	Check
PLAT241_ALERT_2_C	High MainResAtom Ueq as Compared to Neighbours	C11_1	Check
PLAT241_ALERT_2_C	High MainResAtom Ueq as Compared to Neighbours	C13_1	Check
PLAT242_ALERT_2_C	Low MainResAtom Ueq as Compared to Neighbours	P2	Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including Pd1	0.170	Check
PLAT309_ALERT_2_C	Single Bonded Oxygen (C-O > 1.3 Ang)	O14_1	Check
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds	0.012	Ang.
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.507	23	Report
	2 2 2, 0 4 4, 0 6 6, 1 1 7, 0 4 8, 2 4 8,		
	2 6 8, 0 8 10, 6 8 10, 8 14 14, 1 1 15, 0 10 16,		
	2 12 16, 7 9 17, 2 4 18, 5 7 21, 1 11 21, 20 22 22,		
	5 11 23, 20 20 24, 11 25 25, 10 10 34, 4 8 36,		
PLAT918_ALERT_3_C	Reflection(s) with I(obs) much Smaller I(calc) .	18	Check
	1 1 1, 1 3 3, 3 3 3, 0 2 4, 2 2 4, 1 5 7,		
	5 5 7, 2 2 8, 1 3 9, 1 7 9, 2 8 10, 1 7 11,		
	10 10 12, 3 5 13, 0 2 14, 0 4 14, 0 10 14, 2 6 16,		
PLAT977_ALERT_2_C	Check Negative Difference Density on H13_1 .	-0.31	eA-3

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 Restraints on AtSite	4	Note
PLAT003_ALERT_2_G	Number of Uiso or U(i,j) Restrained non-H-Atoms	13	Report
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	1	Report
PLAT174_ALERT_4_G	The CIF-Embedded .res File Contains FLAT Records	1	Report
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	1	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	1	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	1	Report
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Pd1 --N1_1 .	8.4	s.u.
PLAT299_ALERT_4_G	Atom Site Occupancy Constrained at	0.5	Check
	O14_1 C10_1 C12_1		
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)	10%	Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 1)	251.50	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety	C1_3	Check
PLAT606_ALERT_4_G	Solvent Accessible VOID(S) in Crystal Structure	!	Info
PLAT789_ALERT_4_G	Atoms with Negative _atom_site_disorder_group #	22	Check
PLAT822_ALERT_4_G	CIF-embedded .res Contains Negative PART Numbers	2	Check
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	123	Note
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed	!	Info
PLAT883_ALERT_1_G	Absent Datum for _atom_sites_solution_primary ..	Please Do !	
PLAT899_ALERT_4_G	SHELXL2018 is Outdated and Succeeded by SHELXL	2019/3	Note
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	70%	Note
PLAT913_ALERT_3_G	Missing # of Very Strong Reflections in FCF	1	Note
	2 2 2,		
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File	14	Note
	1 1 7, 2 4 8, 2 6 8, 0 8 10, 6 8 10, 0 10 16,		
	1 11 21, 5 11 23, 8 14 14, 1 1 15, 2 12 16, 7 9 17,		
	2 4 18, 5 7 21,		
PLAT969_ALERT_5_G	The 'Henn et al.' R-Factor-gap value	32.650	Note
	Predicted wR2: Based on SigI**2 1.18 or SHELX Weight 20.49		

PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density. 0 Info
PLAT994_ALERT_1_G SHELXL .ins Contains no or MERG 0 Instruction .. ! Note

2 **ALERT level A** = Most likely a serious problem - resolve or explain
2 **ALERT level B** = A potentially serious problem, consider carefully
17 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
26 **ALERT level G** = General information/check it is not something unexpected

5 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
17 ALERT type 2 Indicator that the structure model may be wrong or deficient
10 ALERT type 3 Indicator that the structure quality may be low
14 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. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

PLATON version of 15/01/2026; check.def file version of 02/01/2026

duplicate check

No duplication found

