

checkCIF/PLATON report

No syntax errors found. CIF dictionary Interpreting this report

Datablock: sw80

Bond precision: C-C = 0.0121 A Wavelength=1.54178

Cell: a=23.7788(1) b=23.7788(1) c=15.3445(1)
 alpha=90 beta=90 gamma=90

Temperature: 123 K

	Calculated	Reported
Volume	8676.26(8)	8676.26(8)
Space group	P -4	P -4
Hall group	P -4	P -4
Moiety formula	C73 H64 Ag2 N4 P4, 2(F6 P)	C73 H64 Ag2 N4 P4, 2(F6 P)
Sum formula	C73 H64 Ag2 F12 N4 P6	C73 H64 Ag2 F12 N4 P6
Mr	1626.85	1626.85
Dx,g cm-3	1.245	1.245
Z	4	4
Mu (mm-1)	5.207	5.207
F000	3288.0	3288.0
F000'	3305.40	
h,k,lmax	26,26,17	21,26,17
Nref	6521[12473]	10876
Tmin,Tmax	0.194,0.524	0.124,0.524
Tmin'	0.086	

Correction method= MULTI-SCAN

Data completeness= 1.67/0.87 Theta(max)= 58.930

R(reflections)= 0.0461(8680) wR2(reflections)= 0.1215(10876)

S = 0.994 Npar= 862

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 B

THETM01_ALERT_3_B The value of sine(theta_max)/wavelength is less than 0.575

Calculated sin(theta_max)/wavelength = 0.5556

PLAT250_ALERT_2_B Large U3/U1 Ratio for Average U(i,j) Tensor 5.96

Alert level C

PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C43	--	C48	..	5.21	su
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C50	--	C51	..	6.01	su
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C52	--	C53	..	5.42	su
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C68	--	C69	..	5.34	su
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X)	Ag1	--	P1	..	6.92	su
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X)	Ag2	--	P1	..	5.37	su
PLAT342_ALERT_3_C	Low Bond Precision on	C-C Bonds (x 1000)	Ang	..		12	
PLAT141_ALERT_4_C	su on a - Axis Small or Missing	(x 100000)			10	Ang.
PLAT143_ALERT_4_C	su on c - Axis Small or Missing	(x 100000)			10	Ang.
PLAT231_ALERT_4_C	Hirshfeld Test (Solvent)	P5	--	F2	..	7.38	su
PLAT231_ALERT_4_C	Hirshfeld Test (Solvent)	P5	--	F4	..	7.06	su
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N2	--	C18	..	0.17	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C5	--	C6	..	0.15	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C12	--	C13	..	0.17	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C20	--	C21	..	0.17	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C53	--	C54	..	0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C59	--	C60	..	0.15	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C71	--	C72	..	0.16	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	P6	--	F7	..	0.16	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	P6	--	F8	..	0.17	Ang.
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of					P5	
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of					P6	
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of					P8	
PLAT950_ALERT_1_C	Reported and Calculated Hmax Values Differ by	..				5	

● Alert level G

REFLT03_ALERT_1_G ALERT: Expected hkl max differ from CIF values

From the CIF: _diffrn_reflms_theta_max	58.93
From the CIF: _reflms_number_total	10876
From the CIF: _diffrn_reflms_limit_max hkl	19. 15. 17.
From the CIF: _diffrn_reflms_limit_min hkl	-21. -26. -17.

TEST1: Expected hkl limits for theta max

Calculated maximum hkl	26. 26. 17.
Calculated minimum hkl	-26. -26. -17.

REFLT03_ALERT_4_G Please check that the estimate of the number of Friedel pairs is correct. If it is not, please give the correct count in the _publ_section_exptl_refinement section of the submitted CIF.

From the CIF: _diffrn_reflms_theta_max	58.93
From the CIF: _reflms_number_total	10876
Count of symmetry unique reflns	6521
Completeness (_total/calc)	166.78%

TEST3: Check Friedels for noncentro structure

Estimate of Friedel pairs measured	4355
Fraction of Friedel pairs measured	0.668
Are heavy atom types Z>Si present	yes

PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large. 0.14

PLAT033_ALERT_4_G Flack x Parameter Value Deviates from Zero 0.06

PLAT606_ALERT_4_G VERY LARGE Solvent Accessible VOID(S) in Structure !

PLAT792_ALERT_1_G The Model has Chirality at P2 (Verify) S

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- 0 ALERT level A = In general: serious problem
 - 2 ALERT level B = Potentially serious problem
 - 24 ALERT level C = Check and explain
 - 6 ALERT level G = General alerts; check

- 3 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
- 2 ALERT type 3 Indicator that the structure quality may be low
- 19 ALERT type 4 Improvement, methodology, query or suggestion
- 0 ALERT type 5 Informative message, check

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*, 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 29/06/2010; check.def file version of 26/06/2010

Datablock sw80 - ellipsoid plot

