

checkCIF/PLATON report

No syntax errors found. CIF dictionary Interpreting this report

Datablock: sw208II

Bond precision: C-C = 0.0175 A Wavelength=1.54178

Cell: a=18.7735(11) b=18.7735(11) c=10.0369(8)
alpha=90 beta=90 gamma=120

Temperature: 100 K

	Calculated	Reported
Volume	3063.5(4)	3063.5(4)
Space group	P 63/m	P 63/m
Hall group	-P 6c	-P 6c
Moiety formula	C12 Al F27 O3, 3(C7 H5 Mo O2 P3), C4, 0.97(F4), 0.33(O3), 0.	C16 AL F36 O4, 3(C7 H5 MO O2 P3), TL
Sum formula	C37 H15 Al F36 Mo3 O10 P9 Tl	C37 H15 Al F36 Mo3 O10 P9 Tl
Mr	2101.34	2101.34
Dx,g cm-3	2.278	2.278
Z	2	2
Mu (mm-1)	13.752	13.752
F000	1992.0	1992.0
F000'	1996.63	
h,k,lmax	22,22,11	22,21,11
Nref	1834	1813
Tmin,Tmax	0.116,0.352	0.197,0.352
Tmin'	0.022	

Correction method= MULTI-SCAN

Data completeness= 0.989 Theta(max)= 64.770

R(reflections)= 0.0455(1449) wR2(reflections)= 0.1185(1813)

S = 1.063 Npar= 261

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 A

PLAT242_ALERT_2_A Check Low	Ueq as Compared to Neighbors for	All
PLAT307_ALERT_2_A Isolated Metal Atom (Unusual !)	Tl1
PLAT431_ALERT_2_A Short Inter HL..A Contact F9A	.. F7F ..	1.74 Ang.

🟡 Alert level B

REFNR01_ALERT_3_B Ratio of reflections to parameters is < 8 for a centrosymmetric structure
sine(theta)/lambda 0.5867
Proportion of unique data used 1.0000
Ratio reflections to parameters 6.9464

PLAT088_ALERT_3_B	Poor Data / Parameter Ratio	6.95
PLAT213_ALERT_2_B	Atom F10A has ADP max/min Ratio	4.10 prola
PLAT241_ALERT_2_B	Check High Ueq as Compared to Neighbors for	C2
PLAT242_ALERT_2_B	Check Low Ueq as Compared to Neighbors for	C8
PLAT242_ALERT_2_B	Check Low Ueq as Compared to Neighbors for	C10
PLAT242_ALERT_2_B	Check Low Ueq as Compared to Neighbors for	C4
PLAT431_ALERT_2_B	Short Inter HL..A Contact F7A .. F7B ..	2.56 Ang.
PLAT432_ALERT_2_B	Short Inter X...Y Contact C9A .. F7A ..	2.77 Ang.

🟡 Alert level C

THETM01_ALERT_3_C The value of sine(theta_max)/wavelength is less than 0.590
Calculated sin(theta_max)/wavelength = 0.5867

PLAT213_ALERT_2_C	Atom F9D has ADP max/min Ratio	3.50 prola
PLAT213_ALERT_2_C	Atom O1 has ADP max/min Ratio	4.00 prola
PLAT215_ALERT_3_C	Disordered F9C has ADP max/min Ratio	3.10
PLAT215_ALERT_3_C	Disordered F9F has ADP max/min Ratio	3.20
PLAT215_ALERT_3_C	Disordered O4 has ADP max/min Ratio	3.50
PLAT242_ALERT_2_C	Check Low Ueq as Compared to Neighbors for	F9E
PLAT242_ALERT_2_C	Check Low Ueq as Compared to Neighbors for	C9B
PLAT242_ALERT_2_C	Check Low Ueq as Compared to Neighbors for	Mo1
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor	2.60
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds (x 1000) Ang ..	18
PLAT042_ALERT_1_C	Calc. and Reported MoietyFormula Strings Differ	?
PLAT234_ALERT_4_C	Large Hirshfeld Difference C2 -- C3 ..	0.18 Ang.

🟡 Alert level G

PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large.	18.14
PLAT301_ALERT_3_G	Note: Main Residue Disorder	34.00 Perc.
PLAT860_ALERT_3_G	Note: Number of Least-Squares Restraints	121
PLAT302_ALERT_4_G	Note: Anion/Solvent Disorder	29.00 Perc.
PLAT328_ALERT_4_G	Check for Possibly Missing H on sp3? Phosphorus.	P1
PLAT811_ALERT_5_G	No ADDSYM Analysis: Too Many Excluded Atoms	!

62 **ALERT level A** = In general: serious problem

9 **ALERT level B** = Potentially serious problem

13 **ALERT level C** = Check and explain

6 **ALERT level G** = General alerts; check

2 **ALERT type 1** CIF construction/syntax error, inconsistent or missing data

75 **ALERT type 2** Indicator that the structure model may be wrong or deficient

9 **ALERT type 3** Indicator that the structure quality may be low

3 **ALERT type 4** Improvement, methodology, query or suggestion

1 **ALERT type 5** Informative message, check

Datablock sw208II - ellipsoid plot

