

# checkCIF/PLATON report

No syntax errors found.      CIF dictionary      Interpreting this report

## Datablock: sw144

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Bond precision:    C-C = 0.0116 Å

Wavelength=1.54178

Cell:                a=11.1795(3)                b=12.7224(3)                c=19.4919(6)  
                      alpha=101.365(2)        beta=90.710(2)        gamma=109.057(2)  
Temperature:    123 K

	Calculated	Reported
Volume	2560.19(13)	2560.19(13)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C45 H41 Cu2 Mo2 N3 O4 P4, 2(B F4)	C45 H41 Cu2 Mo2 N3 O4 P4, 2(B F4)
Sum formula	C45 H41 B2 Cu2 F8 Mo2 N3 O4 P4	C45 H41 B2 Cu2 F8 Mo2 N3 O4 P4
Mr	1304.29	1304.29
Dx,g cm-3	1.692	1.692
Z	2	2
Mu (mm-1)	6.682	6.682
F000	1296.0	1296.0
F000'	1293.49	
h,k,lmax	12,14,22	12,14,22
Nref	8135	7802
Tmin,Tmax	0.402,0.544	0.274,0.609
Tmin'	0.111	

Correction method= ANALYTICAL

Data completeness= 0.959

Theta(max)= 62.380

R(reflections)= 0.0537( 6952)

wR2(reflections)= 0.1618( 7802)

S = 1.059

Npar= 631

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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.

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### Alert level B

THETM01\_ALERT\_3\_B The value of sine(theta\_max)/wavelength is less than 0.575

Calculated sin(theta\_max)/wavelength = 0.5747

PLAT029\_ALERT\_3\_B \_diffn\_measured\_fraction\_theta\_full Low ..... 0.96

PLAT220\_ALERT\_2\_B Large Non-Solvent C Ueq(max)/Ueq(min) ... 4.11 Ratio



### Alert level C

DIFMX01\_ALERT\_2\_C The maximum difference density is > 0.1\*ZMAX\*0.75  
     \_refine\_diff\_density\_max given =      3.631  
     Test value =      3.150

DIFMX02\_ALERT\_1\_C The maximum difference density is > 0.1\*ZMAX\*0.75  
     The relevant atom site should be identified.

PLAT097\_ALERT\_2\_C Large Reported Max. (Positive) Residual Density      3.63 eA-3

PLAT342\_ALERT\_3\_C Low Bond Precision on C-C Bonds (x 1000) Ang ..      12

PLAT432\_ALERT\_2\_C Short Inter X...Y Contact F11 .. C42 ..      2.91 Ang.

PLAT244\_ALERT\_4\_C Low 'Solvent' Ueq as Compared to Neighbors of      B2

PLAT244\_ALERT\_4\_C Low 'Solvent' Ueq as Compared to Neighbors of      B3



### Alert level G

PLAT072\_ALERT\_2\_G SHELXL First Parameter in WGHT Unusually Large..      0.10

PLAT083\_ALERT\_2\_G SHELXL Second Parameter in WGHT Unusually Large.      10.57

PLAT860\_ALERT\_3\_G Note: Number of Least-Squares Restraints .....      374

PLAT154\_ALERT\_1\_G The su's on the Cell Angles are Equal (x 10000)      200 Deg.

PLAT302\_ALERT\_4\_G Note: Anion/Solvent Disorder .....      33.00 Perc.

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

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

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

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

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

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

5 ALERT type 3 Indicator that the structure quality may be low

3 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.

