

checkCIF/PLATON report

No syntax errors found. CIF dictionary Interpreting this report

Datablock: swr6

Bond precision: C-C = 0.0096 A

Wavelength=0.71073

Cell: a=13.8598(9) b=13.9687(9) c=17.3480(12)
 alpha=77.539(4) beta=76.183(4) gamma=76.205(4)
Temperature: 100 K

| | Calculated | Reported |
|----------------|--------------------------------------|--------------------------------------|
| Volume | 3122.1(4) | 3122.1(4) |
| Space group | P -1 | P -1 |
| Hall group | -P 1 | -P 1 |
| Moiety formula | C42 H37 Cu2 Mo2 N4 O4 P3, 2(B F4) | C42 H37 Cu2 Mo2 N4 O4 P3, 2(B F4) |
| Sum formula | C42 H37 B2 Cu2 F8 Mo2 N4 O4 P3 | C42 H37 B2 Cu2 F8 Mo2 N4 O4 P3 |
| Mr | 1247.27 | 1247.27 |
| Dx,g cm-3 | 1.327 | 1.327 |
| Z | 2 | 2 |
| Mu (mm-1) | 1.200 | 1.200 |
| F000 | 1236.0 | 1236.0 |
| F000' | 1231.51 | |
| h,k,lmax | 17,17,21 | 17,17,21 |
| Nref | 12823 | 12598 |
| Tmin,Tmax | 0.656,0.787 | 0.619,0.787 |
| Tmin' | 0.613 | |

Correction method= MULTI-SCAN

Data completeness= 0.982

Theta(max)= 26.390

R(reflections)= 0.0649(9804)

wR2(reflections)= 0.2039(12598)

S = 1.094

Npar= 624

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

DIFMX01_ALERT_2_C The maximum difference density is > 0.1*ZMAX*0.75
 _refine_diff_density_max given = 3.405
 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.

| | | |
|-------------------|--|------------|
| PLAT094_ALERT_2_C | Ratio of Maximum / Minimum Residual Density | 2.68 |
| PLAT097_ALERT_2_C | Large Reported Max. (Positive) Residual Density | 3.40 eA-3 |
| PLAT213_ALERT_2_C | Atom C30 has ADP max/min Ratio | 3.20 prola |
| PLAT213_ALERT_2_C | Atom C31 has ADP max/min Ratio | 3.30 prola |
| PLAT220_ALERT_2_C | Large Non-Solvent C Ueq(max)/Ueq(min) ... | 3.32 Ratio |
| PLAT222_ALERT_3_C | Large Non-Solvent H Ueq(max)/Ueq(min) ... | 3.22 Ratio |
| PLAT230_ALERT_2_C | Hirshfeld Test Diff for C29 -- C30 .. | 5.30 su |
| PLAT232_ALERT_2_C | Hirshfeld Test Diff (M-X) Mo1 -- C33 .. | 7.03 su |
| PLAT232_ALERT_2_C | Hirshfeld Test Diff (M-X) Mo2 -- P2 .. | 7.69 su |
| PLAT232_ALERT_2_C | Hirshfeld Test Diff (M-X) Mo2 -- C38 .. | 5.03 su |
| PLAT232_ALERT_2_C | Hirshfeld Test Diff (M-X) Cu1 -- P1 .. | 6.85 su |
| PLAT232_ALERT_2_C | Hirshfeld Test Diff (M-X) Cu2 -- P1 .. | 6.55 su |
| PLAT241_ALERT_2_C | Check High Ueq as Compared to Neighbors for C30 | |
| PLAT241_ALERT_2_C | Check High Ueq as Compared to Neighbors for C33 | |
| PLAT241_ALERT_2_C | Check High Ueq as Compared to Neighbors for C34 | |
| PLAT241_ALERT_2_C | Check High Ueq as Compared to Neighbors for C36 | |
| PLAT242_ALERT_2_C | Check Low Ueq as Compared to Neighbors for Mo1 | |
| PLAT242_ALERT_2_C | Check Low Ueq as Compared to Neighbors for Mo2 | |
| PLAT242_ALERT_2_C | Check Low Ueq as Compared to Neighbors for Cl01 | |
| PLAT342_ALERT_3_C | Low Bond Precision on C-C Bonds (x 1000) Ang .. | 10 |
| PLAT432_ALERT_2_C | Short Inter X...Y Contact O3 .. C4A .. | 2.94 Ang. |
| PLAT432_ALERT_2_C | Short Inter X...Y Contact O4 .. C202 .. | 2.98 Ang. |
| PLAT194_ALERT_1_C | Missing _cell_measurement_reflms_used datum | ? |
| PLAT234_ALERT_4_C | Large Hirshfeld Difference C35 -- C36 .. | 0.15 Ang. |
| PLAT244_ALERT_4_C | Low 'Solvent' Ueq as Compared to Neighbors of B1 | |
| PLAT244_ALERT_4_C | Low 'Solvent' Ueq as Compared to Neighbors of B2 | |

Alert level G

| | | |
|-------------------|--|------------|
| PLAT072_ALERT_2_G | SHELXL First Parameter in WGHT Unusually Large.. | 0.13 |
| PLAT301_ALERT_3_G | Note: Main Residue Disorder | 3.00 Perc. |
| PLAT860_ALERT_3_G | Note: Number of Least-Squares Restraints | 36 |
| PLAT154_ALERT_1_G | The su's on the Cell Angles are Equal (x 10000) | 400 Deg. |
| PLAT606_ALERT_4_G | VERY LARGE Solvent Accessible VOID(S) in Structure | ! |
| PLAT720_ALERT_4_G | Number of Unusual/Non-Standard Labels | 16 |

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

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

28 **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

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

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

5 **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 13/08/2009; check.def file version of 12/08/2009

Datablock swr6 - ellipsoid plot

