

checkCIF/PLATON report

No syntax errors found. CIF dictionary Interpreting this report

Datablock: jml51

Bond precision: C-C = 0.0053 Å Wavelength=0.71073

Cell: a=14.2679(17) b=22.150(3) c=16.5298(14)
 alpha=90 beta=115.124(8) gamma=90

Temperature: 200 K

| | Calculated | Reported |
|------------------------|----------------------|----------------------|
| Volume | 4729.7(10) | 4729.8(9) |
| Space group | P 21/n | P 21/n |
| Hall group | -P 2yn | -P 2yn |
| Moiety formula | C88 H118 Mn6 N12 O22 | C88 H118 Mn6 N12 O22 |
| Sum formula | C88 H118 Mn6 N12 O22 | C88 H118 Mn6 N12 O22 |
| Mr | 2025.59 | 2025.58 |
| Dx,g cm ⁻³ | 1.422 | 1.422 |
| Z | 2 | 2 |
| Mu (mm ⁻¹) | 0.852 | 0.852 |
| F000 | 2112.0 | 2112.0 |
| F000' | 2116.85 | |
| h,k,lmax | 20,31,23 | 20,31,23 |
| Nref | 13788 | 13721 |
| Tmin,Tmax | 0.799,0.829 | 0.562,0.894 |
| Tmin' | 0.795 | |

Correction method= MULTI-SCAN

Data completeness= 0.995 Theta(max)= 30.000

R(reflections)= 0.0457(7986) wR2(reflections)= 0.1387(13721)

S = 1.010 Npar= 647

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

| | | | | | | |
|-------------------|---------------------------|----------------------------------|-------------------|--------|------|------------|
| PLAT220_ALERT_2_B | Large Non-Solvent | C | Ueq(max)/Ueq(min) | ... | 4.81 | Ratio |
| PLAT230_ALERT_2_B | Hirshfeld Test | Diff for | N6 | -- C33 | .. | 10.06 su |
| PLAT242_ALERT_2_B | Check Low | Ueq as Compared to Neighbors for | | | | C44A |
| PLAT242_ALERT_2_B | Check Low | Ueq as Compared to Neighbors for | | | | N4B |
| PLAT245_ALERT_2_B | U(iso) H44A | Smaller than U(eq) | C45B | by | ... | 0.08 AngSq |
| PLAT410_ALERT_2_B | Short Intra H...H Contact | H17 | .. | H20D | .. | 1.81 Ang. |

● **Alert level C**

| | | | |
|-------------------|----------------------------|----------------------------------|------------|
| PLAT215_ALERT_3_C | Disordered C44B | has ADP max/min Ratio | 3.50 |
| PLAT215_ALERT_3_C | Disordered C45B | has ADP max/min Ratio | 3.20 |
| PLAT222_ALERT_3_C | Large Non-Solvent | H Uiso(max)/Uiso(min) ... | 4.52 Rati |
| PLAT230_ALERT_2_C | Hirshfeld Test Diff for | C33 -- C34 .. | 5.13 su |
| PLAT241_ALERT_2_C | Check High | Ueq as Compared to Neighbors for | C40 |
| PLAT242_ALERT_2_C | Check Low | Ueq as Compared to Neighbors for | O11 |
| PLAT242_ALERT_2_C | Check Low | Ueq as Compared to Neighbors for | N4A |
| PLAT242_ALERT_2_C | Check Low | Ueq as Compared to Neighbors for | C20A |
| PLAT242_ALERT_2_C | Check Low | Ueq as Compared to Neighbors for | C35 |
| PLAT242_ALERT_2_C | Check Low | Ueq as Compared to Neighbors for | C45A |
| PLAT242_ALERT_2_C | Check Low | Ueq as Compared to Neighbors for | C20B |
| PLAT245_ALERT_2_C | U(iso) H44B | Smaller than U(eq) C44B by ... | 0.05 AngSq |
| PLAT245_ALERT_2_C | U(iso) H45A | Smaller than U(eq) C45B by ... | 0.02 AngSq |
| PLAT245_ALERT_2_C | U(iso) H45B | Smaller than U(eq) C45B by ... | 0.02 AngSq |
| PLAT360_ALERT_2_C | Short C(sp3)-C(sp3) Bond | C33 - C34 ... | 1.41 Ang. |
| PLAT234_ALERT_4_C | Large Hirshfeld Difference | N4A -- C20A .. | 0.15 Ang. |

● **Alert level G**

| | | |
|-------------------|---|-------------|
| PLAT301_ALERT_3_G | Note: Main Residue Disorder | 10.00 Perc. |
| PLAT860_ALERT_3_G | Note: Number of Least-Squares Restraints | 10 |
| PLAT128_ALERT_4_G | Alternate Setting of Space-group P21/c | P21/n |
| PLAT779_ALERT_4_G | Suspect or Irrelevant (Bond) Angle in CIF | 21.70 Deg. |
| | C44B -O11 -C44A 1.555 1.555 1.555 | |
| PLAT779_ALERT_4_G | Suspect or Irrelevant (Bond) Angle in CIF | 37.00 Deg. |
| | N4B -C19 -N4A 1.555 1.555 1.555 | |

- 0 **ALERT level A** = In general: serious problem
- 7 **ALERT level B** = Potentially serious problem
- 16 **ALERT level C** = Check and explain
- 5 **ALERT level G** = General alerts; check

- 0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
- 19 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
- 4 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 jml51 - ellipsoid plot

