

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) rod141_150k_0m

THIS REPORT IS FOR GUIDANCE ONLY. IF USED AS PART OF A REVIEW PROCEDURE FOR PUBLICATION, IT SHOULD NOT REPLACE THE EXPERTISE OF AN EXPERIENCED CRYSTALLOGRAPHIC REFEREE.

No syntax errors found. CIF dictionary Interpreting this report

Datablock: rod141_150k_0m

| | | |
|-----------------|----------------------|-------------------------------------|
| Bond precision: | C-C = 0.0045 A | Wavelength=1.54178 |
| Cell: | a=8.0001(3) | b=9.3586(3) c=23.7240(7) |
| | alpha=99.332(1) | beta=96.370(2) gamma=98.442(2) |
| Temperature: | 150 K | |
| | Calculated | Reported |
| Volume | 1717.11(10) | 1717.11(10) |
| Space group | P -1 | P -1 |
| Hall group | -P 1 | -P 1 |
| Moiety formula | C35 H30 Cl Cu2 N3 O8 | C35 H30 Cl Cu2 N3 O8 |
| Sum formula | C35 H30 Cl Cu2 N3 O8 | C35 H30 Cl Cu2 N3 O8 |
| Mr | 783.17 | 783.15 |
| Dx,g cm-3 | 1.515 | 1.515 |
| Z | 2 | 2 |
| Mu (mm-1) | 2.714 | 2.714 |
| F000 | 800.0 | 800.0 |
| F000' | 794.97 | |
| h,k,lmax | 9,11,28 | 9,11,28 |
| Nref | 6545 | 6355 |
| Tmin,Tmax | 0.584,0.827 | 0.609,0.753 |
| Tmin' | 0.497 | |

Correction method= # Reported T Limits: Tmin=0.609 Tmax=0.753
AbsCorr = MULTI-SCAN

Data completeness= 0.971 Theta(max)= 70.312

R(reflections)= 0.0457(5729) wR2(reflections)= 0.1340(6355)

S = 1.054 Npar= 446

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

| | | | |
|-------------------|--------------------------------------------------|------|--------|
| PLAT094_ALERT_2_C | Ratio of Maximum / Minimum Residual Density | 2.11 | Report |
| PLAT213_ALERT_2_C | Atom C31 has ADP max/min Ratio | 3.1 | prolat |
| PLAT220_ALERT_2_C | NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range | 3.9 | Ratio |
| PLAT222_ALERT_3_C | NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range | 4.8 | Ratio |
| PLAT250_ALERT_2_C | Large U3/U1 Ratio for Average U(i,j) Tensor | 2.1 | Note |
| PLAT911_ALERT_3_C | Missing FCF Refl Between Thmin & STh/L= 0.600 | 53 | Report |
| PLAT971_ALERT_2_C | Check Calcd Resid. Dens. 2.85A From O3 | 1.51 | eA-3 |

● Alert level G

| | | | |
|-------------------|--------------------------------------------------|------|------|
| PLAT004_ALERT_5_G | Polymeric Structure Found with Maximum Dimension | 1 | Info |
| PLAT794_ALERT_5_G | Tentative Bond Valency for Cu1 (II) . | 2.14 | Info |
| PLAT794_ALERT_5_G | Tentative Bond Valency for Cu2 (II) . | 2.11 | Info |
| PLAT910_ALERT_3_G | Missing # of FCF Reflection(s) Below Theta(Min). | 1 | Note |
| PLAT912_ALERT_4_G | Missing # of FCF Reflections Above STh/L= 0.600 | 137 | Note |
| PLAT933_ALERT_2_G | Number of OMIT Records in Embedded .res File ... | 5 | Note |
| PLAT941_ALERT_3_G | Average HKL Measurement Multiplicity | 3.2 | Low |
| PLAT978_ALERT_2_G | Number C-C Bonds with Positive Residual Density. | 7 | Info |

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
7 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
8 **ALERT level G** = General information/check it is not something unexpected
- 0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
7 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
1 ALERT type 4 Improvement, methodology, query or suggestion
3 ALERT type 5 Informative message, check
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It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

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* or *IUCrData*, 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.

