

checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

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: 160527e

Bond precision: C-C = 0.0136 A Wavelength=0.71073

Cell: a=8.6209(8) b=8.4627(9) c=20.0755(18)
 alpha=90 beta=101.612(2) gamma=90
Temperature: 298 K

	Calculated	Reported
Volume	1434.7(2)	1434.7(2)
Space group	P c	Pc
Hall group	P -2yc	?
Moiety formula	C22 H22 Cl Cu2 N6 O7, Cl O4, H2 O	?
Sum formula	C22 H24 Cl2 Cu2 N6 O12	C22 H24 Cl2 Cu2 N6 O12
Mr	762.47	762.45
Dx,g cm-3	1.765	1.765
Z	2	2
Mu (mm-1)	1.741	1.741
F000	772.0	772.0
F000'	774.20	
h,k,lmax	10,10,23	10,10,23
Nref	5070[2540]	4350
Tmin,Tmax	0.486,0.770	0.528,0.780
Tmin'	0.477	

Correction method= # Reported T Limits: Tmin=0.528 Tmax=0.780
AbsCorr = MULTI-SCAN

Data completeness= 1.71/0.86 Theta(max)= 25.020

R(reflections)= 0.0519(3501) wR2(reflections)= 0.1443(4350)

S = 1.022 Npar= 397

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

PLAT780_ALERT_1_B Coordinates do not Form a Properly Connected Set Please Do !



Alert level C

PLAT036_ALERT_1_C	No s.u. Given for Flack Parameter	Please Do !
PLAT090_ALERT_3_C	Poor Data / Parameter Ratio (Zmax > 18)	6.40 Note
PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	2.23 Report
PLAT220_ALERT_2_C	Non-Solvent Resd 1 0 Ueq(max)/Ueq(min) Range	4.5 Ratio
PLAT230_ALERT_2_C	Hirshfeld Test Diff for Cl1 --O8 ..	5.5 s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for Cl1 --O10 ..	7.0 s.u.
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X) Cu1 --O10_a .	7.1 s.u.
PLAT234_ALERT_4_C	Large Hirshfeld Difference Cl1 -- O7	0.23 Ang.
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds	0.01358 Ang.



Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	5 Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	44 Report
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	1 Info
PLAT005_ALERT_5_G	No Embedded Refinement Details Found in the CIF	Please Do !
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms	6 Report
PLAT093_ALERT_1_G	No s.u.'s on H-positions, Refinement Reported as	mixed Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	Cl1 Check
PLAT244_ALERT_4_G	Low 'Solvent' Ueq as Compared to Neighbors of	Cl2 Check
PLAT794_ALERT_5_G	Tentative Bond Valency for Cu1 (II) .	2.40 Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Cu2 (II) .	2.20 Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	995 Note
PLAT899_ALERT_4_G	SHELXL97 is Deprecated and Succeeded by SHELXL	2017 Note

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- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
1 **ALERT level B** = A potentially serious problem, consider carefully
9 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
12 **ALERT level G** = General information/check it is not something unexpected
- 3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
8 ALERT type 2 Indicator that the structure model may be wrong or deficient
3 ALERT type 3 Indicator that the structure quality may be low
3 ALERT type 4 Improvement, methodology, query or suggestion
5 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.

