

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) ACu5

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: ACu5

Bond precision:	C-C = 0.0042 A	Wavelength=0.71073	
Cell:	a=8.3204(17)	b=10.874(2)	c=12.726(3)
	alpha=76.29(3)	beta=75.33(3)	gamma=83.76(3)
Temperature:	298 K		
	Calculated	Reported	
Volume	1080.7(4)	1080.7(4)	
Space group	P -1	P -1	
Hall group	-P 1	-P 1	
Moiety formula	C44 H38 Cl4 Cu2 N2 O8	?	
Sum formula	C44 H38 Cl4 Cu2 N2 O8	C44 H38 Cl4 Cu2 N2 O8	
Mr	991.66	991.64	
Dx,g cm-3	1.524	1.524	
Z	1	1	
Mu (mm-1)	1.286	1.286	
F000	506.0	506.0	
F000'	507.41		
h,k,lmax	11,14,16	11,14,16	
Nref	5360	5327	
Tmin,Tmax	0.689,0.720	0.780,0.911	
Tmin'	0.676		

Correction method= # Reported T Limits: Tmin=0.780 Tmax=0.911
AbsCorr = NUMERICAL

Data completeness= 0.994 Theta(max)= 28.281

R(reflections)= 0.0351(4045) wR2(reflections)= 0.0888(5327)

S = 1.008 Npar= 272

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

PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C9	Check
PLAT334_ALERT_2_C	Small Aver. Benzene C-C Dist C1 -C6	1.37	Ang.
PLAT910_ALERT_3_C	Missing # of FCF Reflection(s) Below Theta(Min).	8	Note
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.600	16	Report

● Alert level G

PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)	0.03	Degree
PLAT794_ALERT_5_G	Tentative Bond Valency for Cu1 (II)	2.10	Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary		Please Do !
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	10	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	2.0	Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	2	Info

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
4 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
6 **ALERT level G** = General information/check it is not something unexpected
- 2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
3 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
1 ALERT type 4 Improvement, methodology, query or suggestion
1 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.

PLATON version of 10/08/2020; check.def file version of 06/08/2020

Datablock ACu5 - ellipsoid plot

