

# 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: 3

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Bond precision:    C-C = 0.0032 A

Wavelength=0.71073

Cell:                a=9.2917(3)                b=14.8463(6)                c=16.5238(6)  
                      alpha=102.208(3)        beta=99.808(3)        gamma=92.838(3)  
Temperature:        150 K

	Calculated	Reported
Volume	2186.63(14)	2186.63(14)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C20 H12 Cl Cu N2 O4, C4 H10 N	C20 H12 Cl Cu N2 O4, C4 H10 N
Sum formula	C24 H22 Cl Cu N3 O4	C24 H22 Cl Cu N3 O4
Mr	515.45	515.43
Dx, g cm <sup>-3</sup>	1.566	1.566
Z	4	4
Mu (mm <sup>-1</sup> )	1.159	1.159
F000	1060.0	1060.0
F000'	1062.24	
h,k,lmax	12,20,22	12,20,22
Nref	11899	10079
Tmin,Tmax	0.793,0.966	0.576,1.000
Tmin'	0.793	

Correction method= # Reported T Limits: Tmin=0.576 Tmax=1.000  
AbsCorr = MULTI-SCAN

Data completeness= 0.847

Theta(max)= 29.244

R(reflections)= 0.0339( 7902)

wR2(reflections)= 0.0793( 10079)

S = 1.014

Npar= 611

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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

PLAT243\_ALERT\_4\_C High Solvent Ueq as Compared to Neighbors of C61 Check

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### Alert level G

PLAT154\_ALERT\_1\_G The s.u.'s on the Cell Angles are Equal ..(Note) 0.003 Degree  
PLAT232\_ALERT\_2\_G Hirshfeld Test Diff (M-X) Cu2 --Cl2 . 5.3 s.u.  
PLAT794\_ALERT\_5\_G Tentative Bond Valency for Cu1 (II) . 2.17 Info  
PLAT794\_ALERT\_5\_G Tentative Bond Valency for Cu2 (II) . 2.19 Info  
PLAT883\_ALERT\_1\_G No Info/Value for \_atom\_sites\_solution\_primary . Please Do !

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- 0 **ALERT level A** = Most likely a serious problem - resolve or explain  
0 **ALERT level B** = A potentially serious problem, consider carefully  
1 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
5 **ALERT level G** = General information/check it is not something unexpected
- 2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
1 ALERT type 2 Indicator that the structure model may be wrong or deficient  
0 ALERT type 3 Indicator that the structure quality may be low  
1 ALERT type 4 Improvement, methodology, query or suggestion  
2 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 22/12/2019; check.def file version of 13/12/2019

Datablock 3 - ellipsoid plot

