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.

Datablock: compound_1

Bond precision:	C-C = 0.0243 A Wavelength=0.71073				
Cell:	a=18.977(4) alpha=90	b=14.28 beta=90		=19.809(5) amma=90	
Temperature:	120 K				
	Calculated		Reported		
Volume	5369(2)		5369(2)		
Space group	Pbca		Pbca		
Hall group			-P 2ac 2ab		
Moiety formula	C18 H14 Br4 Cu N6 C2 H3 N		C18 H14 Br4	ł Cu N6 O4 Re,	
Sum formula	C20 H17 Br4 Cu N7	O4 Re	C20 H17 Br4	ł Cu N7 O4 Re	
Mr	988.77		988.79		
Dx,g cm-3	2.447		2.447		
Z	8		8		
Mu (mm-1)	11.293		11.293		
F000	3696.0		3696.0		
F000′	3684.11				
h,k,lmax	24,18,25		24,18,25		
Nref	6261		6228		
Tmin,Tmax	0.100,0.184 0.165,0.498				
Tmin'	0.008				
Correction method= # Reported T Limits: Tmin=0.165 Tmax=0.498 AbsCorr = MULTI-SCAN					
Data completeness= 0.995 Th		Theta(ma	Theta(max)= 27.658		
R(reflections) = 0.0831(6003) wR2(reflections) = 0.1966(6228)					
S = 1.415 Npar= 334					

Click on the hyperlinks for more details of the test.

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🖊 Alert level B
PLAT342_ALERT_3_B Low Bond Precision on C-C Bonds .....
                                                                   0.02429 Ang.
PLAT780_ALERT_1_B Coordinates do not Form a Properly Connected Set Please Do!
Alert level C
PLAT213_ALERT_2_C Atom N1 has ADP max/min Ratio .....
PLAT213_ALERT_2_C Atom C13 has ADP max/min Ratio .....
                                                                       3.1 oblate
                                                                       3.7 prolat
PLAT220_ALERT_2_C Non-Solvent Resd 1 C Ueq(max)/Ueq(min) Range
                                                                       4.3 Ratio
PLAT234_ALERT_4_C Large Hirshfeld Difference N2 --C10 .
                                                                      0.17 Ang.
PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of
                                                                       C4 Check
PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of
                                                                        C5 Check
PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of
                                                                       C10 Check
PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of PLAT244_ALERT_4_C Low 'Solvent' Ueq as Compared to Neighbors of
                                                                        C6 Check
                                                                      C19 Check
                                                                     0.087 Check
PLAT260_ALERT_2_C Large Average Ueq of Residue Including N7
                                                    --нза
PLAT368_ALERT_2_C Short C(sp2)-C(sp2) Bond C4 - C5
                                                                       1.21 Ang.
PLAT420_ALERT_2_C D-H Without Acceptor N3
                                                                    Please Check
Alert level G
PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite
                                                                          2 Note
PLAT003_ALERT_2_G Number of Uiso or Uij Restrained non-H Atoms ...
                                                                          4 Report
PLAT004_ALERT_5_G Polymeric Structure Found with Maximum Dimension
                                                                          1 Info
PLAT007_ALERT_5_G Number of Unrefined Donor-H Atoms .....
                                                                          2 Report
                                                                   Please Check
PLAT012_ALERT_1_G N.O.K. _shelx_res_checksum Found in CIF .....
PLAT083_ALERT_2_G SHELXL Second Parameter in WGHT Unusually Large
                                                                      372.83 Why ?
PLAT172_ALERT_4_G The CIF-Embedded .res File Contains DFIX Records
                                                                          1 Report
                                                                          1 Report
PLAT186_ALERT_4_G The CIF-Embedded .res File Contains ISOR Records
PLAT344_ALERT_2_G Unusual sp? Angle Range in Solvent/Ion for
                                                                       C19 Check
PLAT860_ALERT_3_G Number of Least-Squares Restraints .....
                                                                         25 Note
   0 ALERT level A = Most likely a serious problem - resolve or explain
   2 ALERT level B = A potentially serious problem, consider carefully
  12 ALERT level C = Check. Ensure it is not caused by an omission or oversight
  10 ALERT level G = General information/check it is not something unexpected
  2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
  14 ALERT type 2 Indicator that the structure model may be wrong or deficient
   2 ALERT type 3 Indicator that the structure quality may be low
   4 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 13/12/2018; check.def file version of 11/12/2018

