

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) I

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: I

Bond precision: C-C = 0.0036 Å Wavelength=1.54184

Cell: a=8.4016(4) b=15.5626(5) c=16.3803(7)
 alpha=101.944(3) beta=104.296(4) gamma=102.394(3)
Temperature: 150 K

	Calculated	Reported
Volume	1949.09(15)	1949.09(15)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C40 H44 Cu2 N8 O6	C40 H44 Cu2 N8 O6
Sum formula	C40 H44 Cu2 N8 O6	C40 H44 Cu2 N8 O6
Mr	859.93	859.93
Dx,g cm-3	1.465	1.465
Z	2	2
Mu (mm-1)	1.824	1.824
F000	892.0	892.0
F000'	886.47	
h,k,lmax	10,19,20	10,19,20
Nref	7670	7466
Tmin,Tmax	0.850,0.977	0.960,0.980
Tmin'	0.696	

Correction method= # Reported T Limits: Tmin=0.960 Tmax=0.980
AbsCorr = MULTI-SCAN

Data completeness= 0.973 Theta(max)= 72.084

R(reflections)= 0.0350(6388) wR2(reflections)= 0.0894(7466)

S = 0.987 Npar= 530

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

PLAT220_ALERT_2_C	Non-Solvent Resd 1	C	Ueq(max)/Ueq(min) Range	4.6	Ratio
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C39	-- C40 ..	0.16	Ang.
PLAT911_ALERT_3_C	Missing # FCF Refl Between THmin & STh/L=	0.600		33	Report



Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite			6	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...			4	Report
PLAT005_ALERT_5_G	No Embedded Refinement Details found in the CIF			Please Do !	
PLAT300_ALERT_4_G	Atom Site Occupancy of >H391	is Constrained at	0.572	Check	
PLAT300_ALERT_4_G	Atom Site Occupancy of >H392	is Constrained at	0.572	Check	
PLAT300_ALERT_4_G	Atom Site Occupancy of >H401	is Constrained at	0.572	Check	
PLAT300_ALERT_4_G	Atom Site Occupancy of >H402	is Constrained at	0.572	Check	
PLAT300_ALERT_4_G	Atom Site Occupancy of >H403	is Constrained at	0.572	Check	
PLAT300_ALERT_4_G	Atom Site Occupancy of <H1391	is Constrained at	0.428	Check	
PLAT300_ALERT_4_G	Atom Site Occupancy of <H1392	is Constrained at	0.428	Check	
PLAT300_ALERT_4_G	Atom Site Occupancy of <H1401	is Constrained at	0.428	Check	
PLAT300_ALERT_4_G	Atom Site Occupancy of <H1402	is Constrained at	0.428	Check	
PLAT300_ALERT_4_G	Atom Site Occupancy of <H1403	is Constrained at	0.428	Check	
PLAT301_ALERT_3_G	Main Residue Disorder	(Resd 1) ..		4	% Note
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels			5	Note
PLAT860_ALERT_3_G	Number of Least-Squares Restraints			25	Note
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min)			2	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L=	0.600		170	Note
PLAT960_ALERT_3_G	Number of Intensities with I < - 2*sig(I) ...			7	Check

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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
3 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
19 **ALERT level G** = General information/check it is not something unexpected
- 0 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
5 ALERT type 3 Indicator that the structure quality may be low
13 ALERT type 4 Improvement, methodology, query or suggestion
1 ALERT type 5 Informative message, check
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Publication of your CIF

You should 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 nature of your study may justify the reported deviations from journal submission requirements and the more serious of these should 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.

If you wish to submit your CIF for publication in Acta Crystallographica Section C or E, you should upload your CIF via the web. If you wish to submit your CIF for publication in IUCrData you should upload your CIF via the web. If your CIF is to form part of a submission to another IUCr journal, you will be asked, either during electronic submission or by the Co-editor handling your paper, to upload your CIF via our web site.

PLATON version of 24/11/2016; check.def file version of 23/11/2016

Datablock I - ellipsoid plot

