

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) nos014_150k

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: nos014_150k

Bond precision:	C-C = 0.0094 Å	Wavelength=1.34143	
Cell:	a=27.6940(16)	b=15.9902(7)	c=7.8753(6)
	alpha=90	beta=102.343(5)	gamma=90
Temperature:	150 K		
	Calculated	Reported	
Volume	3406.8(4)	3406.8(4)	
Space group	C 2/c	C 1 2/c 1	
Hall group	-C 2yc	-C 2yc	
Moiety formula	C35 H30 Cu2 F N3 O8	C35 H30 Cu2 F N3 O8	
Sum formula	C35 H30 Cu2 F N3 O8	C35 H30 Cu2 F N3 O8	
Mr	766.72	766.70	
Dx,g cm-3	1.495	1.495	
Z	4	4	
Mu (mm-1)	7.083	7.077	
F000	1568.0	1568.0	
F000'	1549.31		
h,k,lmax	34,20,9	34,19,9	
Nref	3604	3531	
Tmin,Tmax	0.199,0.280	0.012,0.083	
Tmin'	0.127		

Correction method= # Reported T Limits: Tmin=0.012 Tmax=0.083
AbsCorr = MULTI-SCAN

Data completeness= 0.980 Theta(max)= 57.942

R(reflections)= 0.0907(2854) wR2(reflections)= 0.2590(3531)

S = 1.151 Npar= 227

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

PLAT084_ALERT_3_C	High wR2 Value (i.e. > 0.25)	0.26	Report
PLAT234_ALERT_4_C	Large Hirshfeld Difference F1 --C15 .	0.16	Ang.
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds	0.00942	Ang.
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance	4.849	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.600	9	Report



Alert level G

ABSMU01_ALERT_1_G	Calculation of _exptl_absorpt_correction_mu not performed for this radiation type.		
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	1	Report
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	1	Info
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large	0.11	Report
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	15.02	Why ?
PLAT128_ALERT_4_G	Alternate Setting for Input Space Group C2/c	I2/a	Note
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records	1	Report
PLAT794_ALERT_5_G	Tentative Bond Valency for Cu1 (II) .	2.14	Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	6	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	57	Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...	2	Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	3	Info
PLAT984_ALERT_1_G	The C-f' = 0.0148 Deviates from the B&C-Value	0.0137	Check
PLAT984_ALERT_1_G	The Cu-f' = -2.9183 Deviates from the B&C-Value	-2.7974	Check
PLAT984_ALERT_1_G	The F-f' = 0.0600 Deviates from the B&C-Value	0.0583	Check
PLAT984_ALERT_1_G	The N-f' = 0.0253 Deviates from the B&C-Value	0.0241	Check
PLAT984_ALERT_1_G	The O-f' = 0.0412 Deviates from the B&C-Value	0.0389	Check
PLAT985_ALERT_1_G	The Cu-f" = 3.6937 Deviates from the B&C-Value	3.6876	Check
PLAT985_ALERT_1_G	The F-f" = 0.0411 Deviates from the B&C-Value	0.0400	Check

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
5 **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
- 8 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
5 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
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.

