

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: I

Bond precision: C-C = 0.0100 Å

Wavelength=0.71073

Cell: a=12.0582(3) b=12.9571(4) c=14.6191(4)
 alpha=78.873(2) beta=74.229(3) gamma=69.542(2)
Temperature: 296 K

	Calculated	Reported
Volume	2047.26(11)	2047.26(11)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C42 H34 Cu2 F4 N2 O8	C42 H34 Cu2 F4 N2 O8
Sum formula	C42 H34 Cu2 F4 N2 O8	C42 H34 Cu2 F4 N2 O8
Mr	897.81	897.79
Dx, g cm-3	1.457	1.456
Z	2	2
Mu (mm-1)	1.111	1.111
F000	916.0	916.0
F000'	917.74	
h, k, lmax	14, 15, 17	14, 15, 17
Nref	7432	7330
Tmin, Tmax	0.808, 0.846	0.738, 0.785
Tmin'	0.717	

Correction method= # Reported T Limits: Tmin=0.738 Tmax=0.785
AbsCorr = MULTI-SCAN

Data completeness= 0.986

Theta(max)= 25.250

R(reflections)= 0.0482(3517)

wR2(reflections)= 0.1103(7330)

S = 0.988

Npar= 531

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

PLAT026_ALERT_3_C	Ratio Observed / Unique Reflections (too) Low ..	48 %
PLAT230_ALERT_2_C	Hirshfeld Test Diff for 03 -- C9 ..	5.5 s.u.
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C13 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C26 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C28 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C1 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C3 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C6 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C11 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C14 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C22 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C24 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C27 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C32 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C35 Check
PLAT334_ALERT_2_C	Small Average Benzene C-C Dist. C11 -C16	1.37 Ang.
PLAT334_ALERT_2_C	Small Average Benzene C-C Dist. C32 -C37	1.37 Ang.
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds	0.01003 Ang.

● Alert level G

PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records	2 Report
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	2 Report
PLAT300_ALERT_4_G	Atom Site Occupancy of *C2A is Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *C2B is Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *C23A is Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *C23B is Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *H2A is Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *H2B is Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *H2C is Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *H2D is Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *H23A is Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *H23B is Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *H23C is Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *H23D is Constrained at	0.5 Check
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)..	3 % Note
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C9 Check
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C30 Check
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C9 - C10 ..	1.50 Ang.
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C30 - C31 ..	1.51 Ang.
PLAT607_ALERT_4_G	ADDSYM Test Skipped due to severe Disorder	! Info
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	38 Check
	C2A -C1 -C2B 1.555 1.555 1.555	16.80 Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	48 Check
	C2A -C3 -C2B 1.555 1.555 1.555	17.00 Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	85 Check
	C2B -C2A -H2C 1.555 1.555 1.555	14.00 Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	92 Check
	H2A -C2A -H2C 1.555 1.555 1.555	39.00 Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	100 Check
	C2A -C2B -H2B 1.555 1.555 1.555	14.00 Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	111 Check
	H2B -C2B -H2D 1.555 1.555 1.555	38.00 Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	151 Check
	C23A -C22 -C23B 1.555 1.555 1.555	11.00 Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	158 Check
	C23A -C24 -C23B 1.555 1.555 1.555	11.00 Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	196 Check
	C23B -C23A -H23C 1.555 1.555 1.555	20.00 Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	203 Check

H23A -C23A -H23C	1.555	1.555	1.555	26.00	Deg.
PLAT779_ALERT_4_G Suspect or Irrelevant (Bond) Angle in CIF #				206	Check
H23B -C23A -H23D	1.555	1.555	1.555	36.00	Deg.
PLAT779_ALERT_4_G Suspect or Irrelevant (Bond) Angle in CIF #				213	Check
C23A -C23B -H23B	1.555	1.555	1.555	20.00	Deg.
PLAT779_ALERT_4_G Suspect or Irrelevant (Bond) Angle in CIF #				221	Check
H23A -C23B -H23C	1.555	1.555	1.555	35.00	Deg.
PLAT779_ALERT_4_G Suspect or Irrelevant (Bond) Angle in CIF #				224	Check
H23B -C23B -H23D	1.555	1.555	1.555	26.00	Deg.
PLAT789_ALERT_4_G Atoms with Negative _atom_site_disorder_group #				98	Check
PLAT860_ALERT_3_G Number of Least-Squares Restraints				8	Note
PLAT899_ALERT_4_G SHELXL97 is Deprecated and Succeeded by SHELXL				2014	Note

0 **ALERT level A** = Most likely a serious problem - resolve or explain
 0 **ALERT level B** = A potentially serious problem, consider carefully
 18 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
 37 **ALERT level G** = General information/check it is not something unexpected

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 20 ALERT type 2 Indicator that the structure model may be wrong or deficient
 4 ALERT type 3 Indicator that the structure quality may be low
 31 ALERT type 4 Improvement, methodology, query or suggestion
 0 ALERT type 5 Informative message, check

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.

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