

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: ad50

Bond precision:	C-C = 0.0083 A	Wavelength=0.71073
Cell:	a=12.7818(16)	b=13.6298(16) c=14.5042(19)
	alpha=90	beta=94.530(17) gamma=90
Temperature:	293 K	
	Calculated	Reported
Volume	2518.9(5)	2518.9(5)
Space group	P 21/n	P 21/n
Hall group	-P 2yn	?
Moiety formula	C16 H25 Cu N6 O14 Pr	?
Sum formula	C16 H25 Cu N6 O14 Pr	C16 H25 Cu N6 O14 Pr
Mr	729.88	729.87
Dx,g cm-3	1.925	1.925
Z	4	4
Mu (mm-1)	2.835	2.835
F000	1452.0	1452.0
F000'	1453.11	
h,k,lmax	15,16,17	15,16,17
Nref	4420	4423
Tmin,Tmax	0.335,0.868	0.633,0.995
Tmin'	0.309	

Correction method= # Reported T Limits: Tmin=0.633 Tmax=0.995
AbsCorr = PSI-SCANS

Data completeness= 1.001 Theta(max)= 24.970

R(reflections)= 0.0363(3129) wR2(reflections)= 0.0984(4423)

S = 1.010 Npar= 359

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

WEIGH01_ALERT_1_C Extra text has been found in the
 _refine_ls_weighting_scheme field. This should be in the
 _refine_ls_weighting_details field.
 Weighting scheme given as calc w=1/[\s^2^(Fo^2^)+(0.0659P)^2^+1.0581
 Weighting scheme identified as calc

PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	07	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	012	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	013	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	Pr	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	N6	Check
PLAT314_ALERT_2_C	Small Angle for H2O: Metal-O4	-H42	.	88.96	Degree
PLAT342_ALERT_3_C	Low Bond Precision on	C-C Bonds	0.00831	Ang.

Alert level G

ABSTY01_ALERT_1_G Extra text has been found in the _exptl_absorpt_correction_type
 field, which should be only a single keyword. A literature
 citation should be included in the _exptl_absorpt_process_details
 field.

PLAT005_ALERT_5_G	No Embedded Refinement Details Found	in the CIF	Please Do !
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature (K)	293 Check
PLAT200_ALERT_1_G	Reported _diffrn_ambient_temperature (K)	293 Check
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Pr	--O7 .	5.7 s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Pr	--O12 .	6.3 s.u.
PLAT794_ALERT_5_G	Tentative Bond Valency for Cu	(II) .	2.39 Info
PLAT808_ALERT_5_G	No Parseable SHELXL Style Weighting Scheme Found		Please Check
PLAT899_ALERT_4_G	SHELXL97	is Deprecated and Succeeded by SHELXL	2016 Note

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

Validation response form

Please find below a validation response form (VRF) that can be filled in and pasted into your CIF.

```
# start Validation Reply Form
_vrf_WEIGH01_ad50
;
PROBLEM: Extra text has been found in the
RESPONSE: ...
;
_vrf_PLAT241_ad50
;
PROBLEM: High      'MainMol' Ueq as Compared to Neighbors of      07 Check
RESPONSE: ...
;
_vrf_PLAT242_ad50
;
PROBLEM: Low       'MainMol' Ueq as Compared to Neighbors of      Pr Check
RESPONSE: ...
```

```

;
_vrf_PLAT314_ad50
;
PROBLEM: Small Angle for H2O: Metal-O4      -H42      .      88.96 Degree
RESPONSE: ...
;
_vrf_PLAT342_ad50
;
PROBLEM: Low Bond Precision on  C-C Bonds .....      0.00831 Ang.
RESPONSE: ...
;
# end Validation Reply Form

```

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 13/08/2017; check.def file version of 12/12/2017

