

## 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: 2

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Bond precision:	C-C = 0.0037 A	Wavelength=0.71073
Cell:	a=7.5524 (1)	b=12.9826 (2)      c=16.0880 (2)
	alpha=90	beta=92.296 (1)      gamma=90
Temperature:	296 K	
	Calculated	Reported
Volume	1576.16 (4)	1576.16 (4)
Space group	P 21/c	P 21/c
Hall group	-P 2ybc	?
Moiety formula	C24 H24 Cd N8 O4, 2 (Cl O4)	?
Sum formula	C24 H24 Cd Cl2 N8 O12	C24 H24 Cd Cl2 N8 O12
Mr	799.82	799.81
Dx, g cm <sup>-3</sup>	1.685	1.685
Z	2	2
Mu (mm <sup>-1</sup> )	0.936	0.936
F000	804.0	804.0
F000'	803.35	
h, k, lmax	10, 18, 22	10, 18, 22
Nref	4609	4599
Tmin, Tmax		0.722, 1.000
Tmin'		

Correction method= # Reported T Limits: Tmin=0.722 Tmax=1.000  
AbsCorr = MULTI-SCAN

Data completeness= 0.998      Theta (max)= 30.000

R(reflections)= 0.0331 ( 3767)	wR2(reflections)=
S = 1.076	0.0956 ( 4599)
Npar= 230	

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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.

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### Alert level C

PLAT053_ALERT_1_C	Minimum Crystal Dimension Missing (or Error) ...	Please Check
PLAT054_ALERT_1_C	Medium Crystal Dimension Missing (or Error) ...	Please Check
PLAT055_ALERT_1_C	Maximum Crystal Dimension Missing (or Error) ...	Please Check

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### Alert level G

PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	1 Info
PLAT005_ALERT_5_G	No Embedded Refinement Details Found in the CIF	Please Do !
PLAT244_ALERT_4_G	Low 'Solvent' Ueq as Compared to Neighbors of	C11 Check
PLAT794_ALERT_5_G	Tentative Bond Valency for Cd1 (II) .	2.05 Info
PLAT899_ALERT_4_G	SHELXL97 is Deprecated and Succeeded by SHELXL-	2019/2 Note

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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  
5 **ALERT level G** = General information/check it is not something unexpected

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

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## 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_PLAT053_2
;
PROBLEM: Minimum Crystal Dimension Missing (or Error) ...      Please Check
RESPONSE: ...
;
_vrf_PLAT054_2
;
PROBLEM: Medium Crystal Dimension Missing (or Error) ...      Please Check
RESPONSE: ...
;
_vrf_PLAT055_2
;
PROBLEM: Maximum Crystal Dimension Missing (or Error) ...      Please Check
RESPONSE: ...
;
# end Validation Reply Form
```

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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.

