

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: xiao1

Bond precision: C-C = 0.0056 Å Wavelength=0.71073

Cell: a=7.464(6) b=19.816(15) c=16.031(12)
 alpha=90 beta=103.4600 gamma=90
Temperature: 293 K

	Calculated	Reported
Volume	2306(3)	2306(3)
Space group	P 21/n	P 1 21/n 1
Hall group	-P 2yn	-P 2yn
Moiety formula	C24 H21 Cd N5 O6	C24 H21 Cd N5 O6
Sum formula	C24 H21 Cd N5 O6	C24 H21 Cd N5 O6
Mr	587.87	587.86
Dx,g cm-3	1.693	1.693
Z	4	4
Mu (mm-1)	0.999	1.000
F000	1184.0	1184.0
F000'	1181.27	
h,k,lmax	8,23,19	8,23,19
Nref	4050	4045
Tmin,Tmax	0.748,0.803	
Tmin'	0.712	

Correction method= Not given

Data completeness= 0.999 Theta(max)= 24.998

R(reflections)= 0.0371(3472) wR2(reflections)= 0.0965(4045)

S = 1.073 Npar= 327

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

PLAT018_ALERT_1_C	_diffrn_measured_fraction_theta_max .NE. *_full	!	Check
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X) Cd1 --O1 .	6.5	s.u.
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X) Cd1 --O2 .	7.7	s.u.
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	N5	Check

● Alert level G

PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	2	Info
PLAT093_ALERT_1_G	No s.u.'s on H-positions, Refinement Reported as	mixed	Check
PLAT145_ALERT_4_G	s.u. on beta Small or Missing	0.0000	Degree
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature (K)	293	Check
PLAT200_ALERT_1_G	Reported _diffrn_ambient_temperature (K)	293	Check
PLAT794_ALERT_5_G	Tentative Bond Valency for Cd1 (II) .	2.13	Info
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...	1	Note

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

4 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
4 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
1 ALERT type 4 Improvement, methodology, query or suggestion
2 ALERT type 5 Informative message, check

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.

Datablock xiao1 - ellipsoid plot

