

checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

No syntax errors found. CIF dictionary Interpreting this report

Datablock: p21c

Bond precision:	C-C = 0.0037 A	Wavelength=0.71073	
Cell:	a=16.639(6)	b=9.887(4)	c=13.205(5)
	alpha=90	beta=106.768(3)	gamma=90
Temperature:	296 K		
	Calculated	Reported	
Volume	2080.0(14)	2079.9(13)	
Space group	P 21/c	P2(1)/c	
Hall group	-P 2ybc	?	
Moiety formula	C23 H17 Cd N3 O5	?	
Sum formula	C23 H17 Cd N3 O5	C23 H17 Cd N3 O5	
Mr	527.81	527.80	
Dx,g cm-3	1.686	1.685	
Z	4	4	
Mu (mm-1)	1.092	1.092	
F000	1056.0	1056.0	
F000'	1053.21		
h,k,lmax	20,11,15	19,11,15	
Nref	3853	3835	
Tmin,Tmax	0.744,0.769	0.750,0.780	
Tmin'	0.729		

Correction method= MULTI-SCAN

Data completeness= 0.995 Theta(max)= 25.490

R(reflections)= 0.0229(3356) wR2(reflections)= 0.0585(3835)

S = 0.998 Npar= 297

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

PLAT314_ALERT_2_C Check Small Angle for H2O: Metal-O5 -H2W 89.65 Deg.



Alert level G

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PLAT004_ALERT_5_G Info: Polymeric Structure Found with Dimension .      2
PLAT005_ALERT_5_G No _iucr_refine_instructions_details in CIF ....      ?
PLAT194_ALERT_1_G Missing _cell_measurement_reflns_used datum ....      ?
PLAT195_ALERT_1_G Missing _cell_measurement_theta_max datum ....      ?
PLAT196_ALERT_1_G Missing _cell_measurement_theta_min datum ....      ?
PLAT232_ALERT_2_G Hirshfeld Test Diff (M-X) Cd1 -- O5 ..      9.8 su

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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
1 ALERT level C = Check. Ensure it is not caused by an omission or oversight
6 ALERT level G = General information/check it is not something unexpected

3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
2 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
0 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*, 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.

