

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: new_sq

Bond precision:	C-C = 0.0102 A	Wavelength=0.70000	
Cell:	a=30.373(4)	b=30.373(4)	c=34.439(7)
	alpha=90	beta=90	gamma=90
Temperature:	313 K		
	Calculated	Reported	
Volume	31771(11)	31772(11)	
Space group	P 4/m n c	P 4/m n c	
Hall group	-P 4 2n	-P 4 2n	
Moiety formula	2(C79 H41.60 N7.40 O17.90 Zn5.50) [+ solvent]	?	
Sum formula	C158 H83.20 N14.80 O35.80 Zn11 [+ solvent]	C158 H83.20 N14.80 O35.80 Zn11	
Mr	3480.89	3480.66	
Dx, g cm ⁻³	0.728	0.728	
Z	4	4	
Mu (mm ⁻¹)	0.818	0.818	
F000	7004.8	7005.0	
F000'	7020.42		
h,k,lmax	36,36,41	36,36,41	
Nref	14932	14881	
Tmin,Tmax	0.822,0.863	0.715,0.867	
Tmin'	0.698		

Correction method= # Reported T Limits: Tmin=0.715 Tmax=0.867
AbsCorr = MULTI-SCANS

Data completeness= 0.997 Theta(max)= 25.000

R(reflections)= 0.1012(9872) wR2(reflections)= 0.3769(14881)

S = 1.464 Npar= 511

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 B

PLAT084_ALERT_3_B	High	wR2 Value (i.e. > 0.25)	0.38	Report
PLAT241_ALERT_2_B	High	'MainMol' Ueq as Compared to Neighbors of	02W	Check
PLAT241_ALERT_2_B	High	'MainMol' Ueq as Compared to Neighbors of	03	Check
PLAT241_ALERT_2_B	High	'MainMol' Ueq as Compared to Neighbors of	04	Check
PLAT241_ALERT_2_B	High	'MainMol' Ueq as Compared to Neighbors of	C33	Check
PLAT242_ALERT_2_B	Low	'MainMol' Ueq as Compared to Neighbors of	Zn5	Check

Alert level C

ABSMU01_ALERT_1_C	The ratio of given/expected absorption coefficient lies outside the range 0.99 <> 1.01			
	Calculated value of mu =	0.853		
	Value of mu given =	0.818		
RADNW01_ALERT_1_C	The radiation wavelength lies outside the expected range for the supplied radiation type. Expected range 0.71065-0.71075			
	Wavelength given =	0.70000		
PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density			2.37 Report
PLAT213_ALERT_2_C	Atom O1W	has ADP max/min Ratio	3.2	prolat
PLAT213_ALERT_2_C	Atom C20	has ADP max/min Ratio	3.1	prolat
PLAT220_ALERT_2_C	Non-Solvent Resd 1	C Ueq(max)/Ueq(min) Range	3.3	Ratio
PLAT220_ALERT_2_C	Non-Solvent Resd 1	O Ueq(max)/Ueq(min) Range	5.2	Ratio
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	01	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	02	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	05	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	06	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	N2	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	N4	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	C3	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	C8	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	C16	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	C17	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	C23	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	C25	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	C36	Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	Zn2	Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	N1P	Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C10	Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C13	Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C19	Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C21	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	C30	Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C31	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
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor			2.1 Note
PLAT341_ALERT_3_C	Low	Bond Precision on C-C Bonds	0.01017	Ang.
PLAT731_ALERT_1_C	Bond Calc	1.466(11), Rep 1.47(6)	6	su-Rat
	C27 -C35	1.555 7.755	#	67 Check

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			
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citation should be included in the _exptl_absorpt_process_details field.

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	15	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	22	Report
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	3	Info
PLAT068_ALERT_1_G	Reported F000 Differs from Calcd (or Missing)...		Please Check
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large	0.20	Report
PLAT092_ALERT_4_G	Check: Wavelength given is not Cu,Ga,Mo,Ag,In Ka	0.70000	Ang.
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	11	Report
PLAT173_ALERT_4_G	The CIF-Embedded .res File Contains DANG Records	8	Report
PLAT174_ALERT_4_G	The CIF-Embedded .res File Contains FLAT Records	4	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	4	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	4	Report
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records	5	Report
PLAT300_ALERT_4_G	Atom Site Occupancy of Zn4 is Constrained at	0.55	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Zn3 is Constrained at	0.45	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of O1W is Constrained at	0.45	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C1P is Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C2P is Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of N2P is Constrained at	0.45	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C4P is Constrained at	0.45	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C5P is Constrained at	0.45	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C6P is Constrained at	0.45	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C7P is Constrained at	0.45	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C8P is Constrained at	0.45	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1P is Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H2P is Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H4P is Constrained at	0.45	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H5P is Constrained at	0.45	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H7P is Constrained at	0.45	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H8P is Constrained at	0.45	Check
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)..	9%	Note
PLAT606_ALERT_4_G	VERY LARGE Solvent Accessible VOID(S) in Structure		! Info
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	150	Check
	ZN4 -O2 -ZN3 1.555 1.555 1.555	25.63	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	154	Check
	ZN3 -O4 -ZN4 1.555 1.555 1.555	18.16	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	158	Check
	ZN4 -O6 -ZN3 1.555 1.555 1.555	19.53	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	192	Check
	ZN4 -O2W -ZN3 1.555 1.555 1.555	26.62	Deg.
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	285	Note
PLAT869_ALERT_4_G	ALERTS Related to the use of SQUEEZE Suppressed		! Info

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- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
6 **ALERT level B** = A potentially serious problem, consider carefully
35 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
38 **ALERT level G** = General information/check it is not something unexpected
- 5 **ALERT type 1** CIF construction/syntax error, inconsistent or missing data
39 **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
30 **ALERT type 4** Improvement, methodology, query or suggestion
1 **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* 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 27/07/2017

