

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 = 0.0120 Å Wavelength=0.70000

Cell: a=30.344(4) b=30.344(4) c=34.461(7)
 alpha=90 beta=90 gamma=90
Temperature: 293 K

	Calculated	Reported
Volume	31730(11)	31731(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	0.729	0.729
Z	4	4
Mu (mm ⁻¹)	0.819	0.819
F000	7004.8	7005.0
F000'	7020.42	
h,k,lmax	35,35,40	35,35,40
Nref	13300	13244
Tmin,Tmax	0.822,0.863	0.714,0.867
Tmin'	0.697	

Correction method= # Reported T Limits: Tmin=0.714 Tmax=0.867
AbsCorr = MULTI-SCANS

Data completeness= 0.996 Theta(max)= 23.999

R(reflections)= 0.1111(10344) wR2(reflections)= 0.3992(13244)

S = 1.731 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)	0.40	Report
PLAT241_ALERT_2_B	High	'MainMol' Ueq as Compared to Neighbors of	O2W	Check
PLAT241_ALERT_2_B	High	'MainMol' Ueq as Compared to Neighbors of	O4	Check
PLAT241_ALERT_2_B	High	'MainMol' Ueq as Compared to Neighbors of	C16	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
PLAT242_ALERT_2_B	Low	'MainMol' Ueq as Compared to Neighbors of	C32	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 = 0.854
Value of mu given = 0.819

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

THETM01_ALERT_3_C The value of sine(theta_max)/wavelength is less than 0.590
Calculated sin(theta_max)/wavelength = 0.5810

PLAT082_ALERT_2_C	High	R1 Value	0.11	Report
PLAT213_ALERT_2_C	Atom	C21 has ADP max/min Ratio	3.3	prolat
PLAT220_ALERT_2_C	Non-Solvent	Resd 1 C Ueq(max)/Ueq(min) Range	4.1	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	O1	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	O2	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	O3	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	O5	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	O6	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	C2	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	C17	Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	C25	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	C15	Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C18	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	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	C27	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	C34	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	0.01205	Ang.
PLAT369_ALERT_2_C	Long	C(sp2)-C(sp2) Bond C5 - C6 ..	1.53	Ang.
PLAT731_ALERT_1_C	Bond	Calc 1.482(13), Rep 1.48(7)	5	su-Rat
	C27	-C35 1.555 6.565	#	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 citation should be included in the _exptl_absorpt_process_details field.

PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	6	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.
PLAT174_ALERT_4_G	The CIF-Embedded .res File Contains FLAT Records	1	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	1	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	1	Report
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records	2	Report
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature (K)	293	Check
PLAT200_ALERT_1_G	Reported _diffn_ambient_temperature (K)	293	Check
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
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C3P - C3P_h ..	1.53	Ang.
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	26.34	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	154	Check
	ZN3 -O4 -ZN4 1.555 1.555 1.555	19.03	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	158	Check
	ZN4 -O6 -ZN3 1.555 1.555 1.555	20.98	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #	192	Check
	ZN4 -O2W -ZN3 1.555 1.555 1.555	27.57	Deg.
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	44	Note
PLAT869_ALERT_4_G	ALERTS Related to the use of SQUEEZE Suppressed		! Info

0 **ALERT level A** = Most likely a serious problem - resolve or explain
 7 **ALERT level B** = A potentially serious problem, consider carefully
 31 **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

7 **ALERT type 1** CIF construction/syntax error, inconsistent or missing data
 35 **ALERT type 2** Indicator that the structure model may be wrong or deficient
 5 **ALERT type 3** Indicator that the structure quality may be low
 28 **ALERT type 4** Improvement, methodology, query or suggestion
 1 **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.

