

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: a_a_sq

Bond precision:	C-C = 0.0105 A	Wavelength=0.71073
Cell:	a=25.514 (10) b=33.507 (10) c=18.134 (7)	alpha=90 beta=114.809 (14) gamma=90
Temperature:	273 K	
	Calculated	Reported
Volume	14072 (9)	14072 (9)
Space group	C 2/c	C 1 2/c 1
Hall group	-C 2yc	-C 2yc
Moiety formula	2(C40 H44 N24 O12), C17 Zn2, 2(C7 H7 N2), 2(C14 Zn), 4(H2 O) [+	C14 Zn, C13.5 Zn, C40 H44 N24 O12, C7 H7 N2, 2(H2 O)
Sum formula	C94 H110 C115 N52 O28 Zn4 [+ solvent]	C47 H55 C17.50 N26 O14 Zn2
Mr	3209.65	1604.78
Dx, g cm-3	1.515	1.515
Z	4	8
Mu (mm-1)	1.043	1.043
F000	6548.0	6548.0
F000'	6563.52	
h, k, lmax	30, 39, 21	30, 39, 21
Nref	12391	12365
Tmin, Tmax	0.901, 0.911	0.559, 0.746
Tmin'	0.901	

Correction method= # Reported T Limits: Tmin=0.559 Tmax=0.746
AbsCorr = NONE

Data completeness= 0.998

Theta(max)= 25.000

R(reflections)= 0.0724(6681)

wR2(reflections)=
0.2303(12365)

S = 1.004

Npar= 875

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

PLAT334_ALERT_2_B	Small Aver. Benzene C-C Dist	C42	-C44		1.34 Ang.
PLAT417_ALERT_2_B	Short Inter D-H..H-D	H14D	..H26A	.	1.91 Ang.
			x,y,z =	1_555	Check
PLAT417_ALERT_2_B	Short Inter D-H..H-D	H14E	..H26A	.	2.07 Ang.
			x,y,z =	1_555	Check
PLAT420_ALERT_2_B	D-H Bond Without Acceptor	O13	--H13B	.	Please Check

● Alert level C

PLAT230_ALERT_2_C	Hirshfeld Test Diff for	O4	--C32	.	5.7 s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	N12	--C20	.	5.7 s.u.
PLAT231_ALERT_4_C	Hirshfeld Test (Solvent)	N26	--C46	.	7.3 s.u.
PLAT243_ALERT_4_C	High 'Solvent' Ueq as Compared to Neighbors of				C43 Check
PLAT243_ALERT_4_C	High 'Solvent' Ueq as Compared to Neighbors of				C44 Check
PLAT243_ALERT_4_C	High 'Solvent' Ueq as Compared to Neighbors of				C45 Check
PLAT243_ALERT_4_C	High 'Solvent' Ueq as Compared to Neighbors of				C47 Check
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of				Zn1 Check
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of				C41 Check
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of				C42 Check
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of				C46 Check
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of				Zn2 Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including	O13			0.181 Check
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds				0.01053 Ang.

● Alert level G

PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms				7 Report
PLAT042_ALERT_1_G	Calc. and Reported Moiety Formula Strings Differ				Please Check
PLAT045_ALERT_1_G	Calculated and Reported Z Differ by a Factor ...				0.500 Check
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large				0.13 Report
PLAT128_ALERT_4_G	Alternate Setting for Input Space Group	C2/c			I2/a Note
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature	(K)			273 Check
PLAT200_ALERT_1_G	Reported _diffrn_ambient_temperature	(K)			273 Check
PLAT231_ALERT_4_G	Hirshfeld Test (Solvent)	N25	--C41	.	6.7 s.u.
PLAT231_ALERT_4_G	Hirshfeld Test (Solvent)	C41	--C42	.	5.7 s.u.
PLAT432_ALERT_2_G	Short Inter X...Y Contact	C14	..C6	.	3.24 Ang.
			x,y,z =	1_555	Check
PLAT606_ALERT_4_G	Solvent Accessible VOID(S) in Structure				! Info
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #				4 Note
	C14 Zn				
PLAT794_ALERT_5_G	Tentative Bond Valency for Zn1	(II)	.		1.99 Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Zn2	(II)	.		2.04 Info
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed				! Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary				Please Do !
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity				3.8 Low

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

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

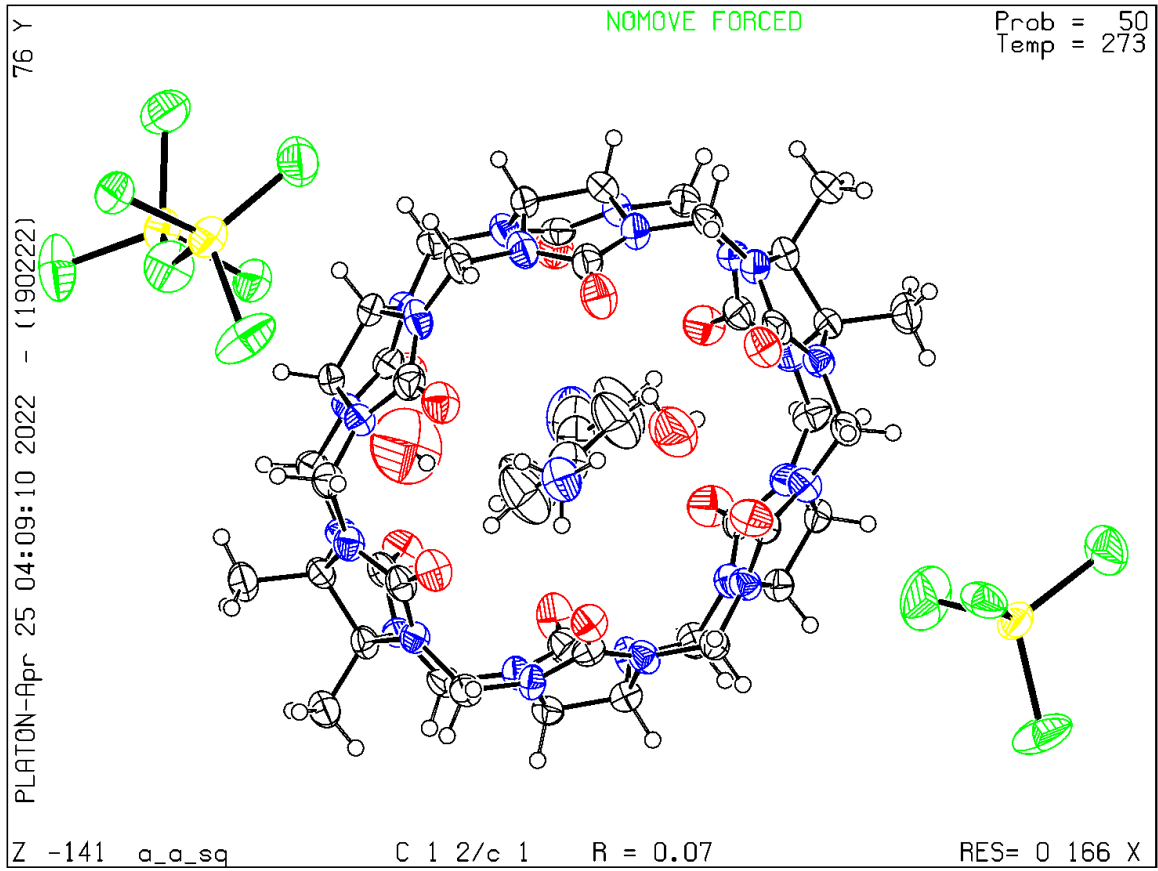
It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious 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.



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No syntax errors found. CIF dictionary Interpreting this report

Datablock: a_a_sq

Bond precision: C-C = 0.0171 Å Wavelength=0.71073

Cell: a=16.196(4) b=21.572(6) c=24.111(7)
 alpha=92.944(8) beta=98.870(8) gamma=109.924(7)
Temperature: 273 K

	Calculated	Reported
Volume	7776(4)	7776(4)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C40 H44 N24 O12, 2(C13 H16 2(C14 Zn), C40 H44 N24 N2), 2(C14 Zn) [+ solvent]	O12, 2(C13 H16 N2)
Sum formula	C66 H76 Cl8 N28 O12 Zn2 [+ solvent]	C66 H76 Cl8 N28 O12 Zn2
Mr	1867.93	1867.88
Dx, g cm ⁻³	1.197	1.197
Z	3	3
Mu (mm ⁻¹)	0.729	0.729
F000	2880.0	2880.0
F000'	2886.12	
h,k,lmax	19,25,28	19,25,28
Nref	27401	27326
Tmin,Tmax	0.896,0.916	0.603,0.746
Tmin'	0.896	

Correction method= # Reported T Limits: Tmin=0.603 Tmax=0.746
AbsCorr = MULTI-SCAN

Data completeness= 0.997 Theta(max)= 25.000

R(reflections)= 0.1254(11486) wR2(reflections)= 0.3809(27326)

S = 1.073 Npar= 1586

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
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	N23 --C1 .	8.9	s.u.
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	C14 --C16 .	12.5	s.u.
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	C15 --C17 .	17.5	s.u.
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	N0AA --C71 .	13.0	s.u.
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	N41 --C61 .	9.6	s.u.
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	C61 --C66 .	8.0	s.u.
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	C68 --C69 .	7.9	s.u.
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	C68 --C73 .	9.7	s.u.
PLAT234_ALERT_4_B	Large Hirshfeld Difference	C65 --C66 .	0.29	Ang.
PLAT241_ALERT_2_B	High 'MainMol' Ueq as Compared to Neighbors of	C66	Check	
PLAT242_ALERT_2_B	Low 'MainMol' Ueq as Compared to Neighbors of	C68	Check	
PLAT341_ALERT_3_B	Low Bond Precision on C-C Bonds	.....	0.01711	Ang.
PLAT412_ALERT_2_B	Short Intra XH3 .. XHn	H11A ..H14B .	1.70	Ang.
		x,y,z =	1_555	Check

● **Alert level C**

RINTA01_ALERT_3_C	The value of Rint is greater than 0.12			
	Rint given	0.164		
PLAT020_ALERT_3_C	The Value of Rint is Greater Than 0.12	.....	0.164	Report
PLAT026_ALERT_3_C	Ratio Observed / Unique Reflections (too) Low	..	42%	Check
PLAT082_ALERT_2_C	High R1 Value	.....	0.13	Report
PLAT220_ALERT_2_C	NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range		5.5	Ratio
PLAT222_ALERT_3_C	NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range		6.3	Ratio
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	N4 --C10 .	6.7	s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	N10 --C20 .	5.4	s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	N13 --C21 .	5.5	s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	N25 --C43 .	6.3	s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C48 --C49 .	5.5	s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C51 --C53 .	6.7	s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C64 --C67 .	5.8	s.u.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	O4 --C13 .	0.19	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	O5 --C21 .	0.20	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	O7 --C4 .	0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	O11 --C18 .	0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N1 --C3 .	0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N3 --C5 .	0.16	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N5 --C9 .	0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N6 --C9 .	0.17	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N6 --C10 .	0.25	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N7 --C11 .	0.22	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N8 --C12 .	0.19	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N8 --C16 .	0.19	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N8 --C18 .	0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N9 --C13 .	0.23	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N9 --C17 .	0.17	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N9 --C19 .	0.20	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N10 --C17 .	0.21	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N11 --C19 .	0.22	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N11 --C22 .	0.20	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N14 --C26 .	0.20	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N15 --C27 .	0.16	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N17 --C27 .	0.19	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N19 --C31 .	0.17	Ang.

PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	N21	--C39	.	0.16	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	N22	--C02H	.	0.18	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	N23	--C2	.	0.17	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	C02H	--C36	.	0.17	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	C22	--C23	.	0.16	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	O15	--C50	.	0.16	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	O16	--C52	.	0.19	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	N27	--C45	.	0.18	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	N36	--C60	.	0.17	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	C43	--C44	.	0.18	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	C64	--C65	.	0.24	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	C90	--C91	.	0.20	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	C91	--C92	.	0.16	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	C97	--C98	.	0.16	Ang.
PLAT234_ALERT_4_C	Large	Hirshfeld	Difference	C77	--C78	.	0.17	Ang.
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of				C6	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of				C11	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of				C12	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of				C19	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				C63	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of				C67	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of				C69	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of				C73	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of				C93	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of				N4	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of				C02H	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of				C16	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of				C17	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of				C53	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of				C61	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of				C64	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of				C71	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of				C87	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of				C90	Check
PLAT243_ALERT_4_C	High	'Solvent'	Ueq as Compared to Neighbors of				C19	Check
PLAT243_ALERT_4_C	High	'Solvent'	Ueq as Compared to Neighbors of				C112	Check
PLAT244_ALERT_4_C	Low	'Solvent'	Ueq as Compared to Neighbors of				Zn2	Check
PLAT250_ALERT_2_C	Large	U3/U1 Ratio for Average U(i,j) Tensor	....				2.2	Note
PLAT260_ALERT_2_C	Large	Average Ueq of Residue Including		N0AA			0.184	Check
PLAT260_ALERT_2_C	Large	Average Ueq of Residue Including		Zn4			0.176	Check
PLAT260_ALERT_2_C	Large	Average Ueq of Residue Including		Zn2			0.153	Check
PLAT334_ALERT_2_C	Small	Aver. Benzene C-C Dist	C87	-C92			1.37	Ang.
PLAT334_ALERT_2_C	Small	Aver. Benzene C-C Dist	C74	-C79			1.37	Ang.
PLAT334_ALERT_2_C	Small	Aver. Benzene C-C Dist	C81	-C86			1.37	Ang.
PLAT362_ALERT_2_C	Short	C(sp3)-C(sp2) Bond	C67	-C68	.		1.37	Ang.
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N0AA	--H0AA	.				Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N0AA	--H0AB	.				Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N0AA	--H0AC	.				Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N37	--H37A	.				Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N37	--H37B	.				Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N37	--H37C	.				Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N38	--H38B	.				Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N40	--H40E	.				Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N41	--H41C	.				Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N41	--H41D	.				Please Check

Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	8	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	20	Report

PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms	12	Report
PLAT042_ALERT_1_G	Calc. and Reported Moiety Formula Strings Differ		Please Check
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large	0.20	Report
PLAT073_ALERT_1_G	H-atoms ref, but _hydrogen_treatment Reported as		constr Check
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	6	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	1	Report
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records	7	Report
PLAT187_ALERT_4_G	The CIF-Embedded .res File Contains RIGU Records	5	Report
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature (K)	273	Check
PLAT200_ALERT_1_G	Reported _diffn_ambient_temperature (K)	273	Check
PLAT233_ALERT_4_G	Hirshfeld (M-X Solvent) Zn4 --Cl9 .	35.0	s.u.
PLAT233_ALERT_4_G	Hirshfeld (M-X Solvent) Zn4 --Cl12 .	27.5	s.u.
PLAT233_ALERT_4_G	Hirshfeld (M-X Solvent) Zn4 --Cl13 .	43.7	s.u.
PLAT233_ALERT_4_G	Hirshfeld (M-X Solvent) Zn3 --Cl9 .	13.8	s.u.
PLAT233_ALERT_4_G	Hirshfeld (M-X Solvent) Zn3 --Cl12 .	14.2	s.u.
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 6)	40%	Note
PLAT606_ALERT_4_G	Solvent Accessible VOID(S) in Structure		! Info
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	5	Note
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...	0.00	Deg.
	H0AA -N0AA -H0AA 1_555 1_555 1_555	# 599	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...	0.00	Deg.
	H0AB -N0AA -H0AB 1_555 1_555 1_555	# 607	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...	0.00	Deg.
	H0AC -N0AA -H0AC 1_555 1_555 1_555	# 615	Check
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	3	Note
	C13 H16 N2		
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	7	Note
	C14 Zn		
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	8	Note
	C14 Zn		
PLAT794_ALERT_5_G	Tentative Bond Valency for Zn1 (II) .	1.97	Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Zn2 (II) .	2.04	Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	129	Note
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed		! Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .		Please Do !
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...	44	Note

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 14 **ALERT level B** = A potentially serious problem, consider carefully
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5 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 62 ALERT type 2 Indicator that the structure model may be wrong or deficient
 7 ALERT type 3 Indicator that the structure quality may be low
 61 ALERT type 4 Improvement, methodology, query or suggestion
 3 ALERT type 5 Informative message, check

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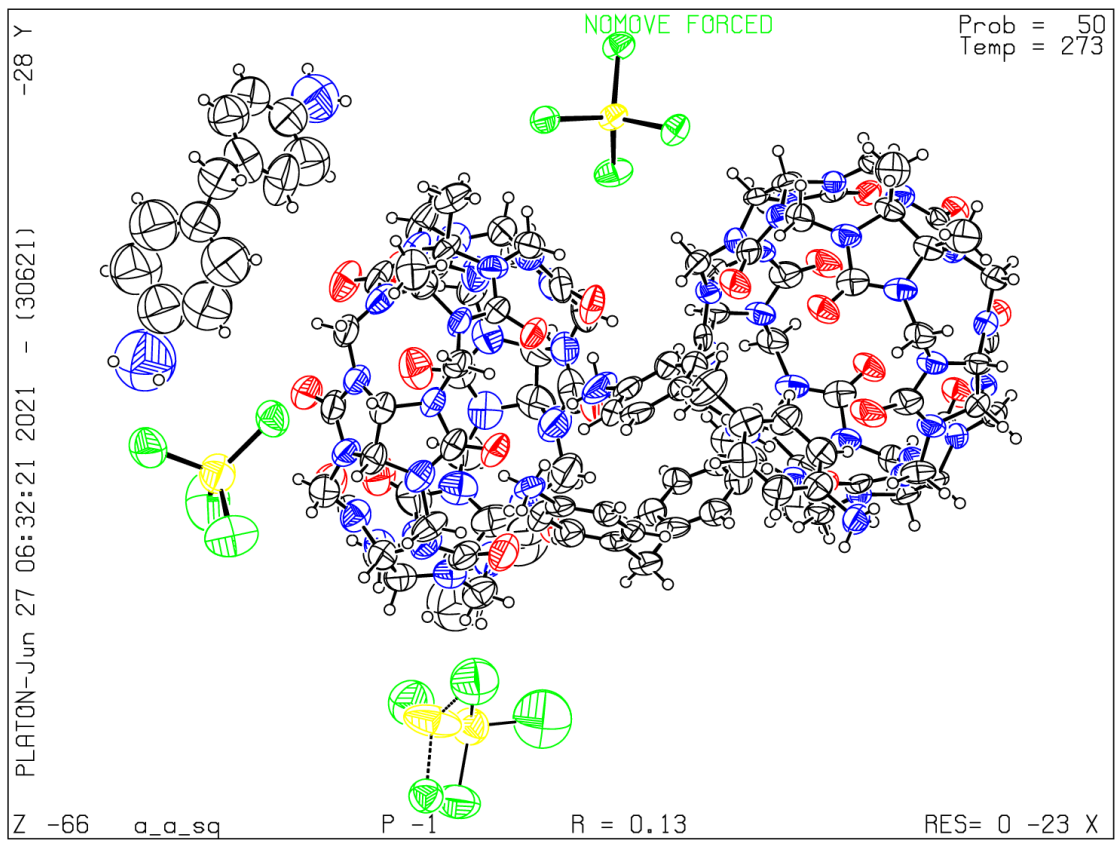
Publication of your CIF in IUCr journals

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PLATON version of 03/06/2021; check.def file version of 02/06/2021



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: a_a_sq

Bond precision: C-C = 0.0103 A Wavelength=0.71073

Cell: a=12.982 (5) b=25.563 (10) c=28.478 (12)
 alpha=112.834 (12) beta=90.524 (12) gamma=93.767 (13)
Temperature: 273 K

	Calculated	Reported
Volume	8685 (6)	8685 (6)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	2(C40 H44 N24 O12), 3(C13 H14 N), 3(C14 Zn), 2(H2 O) [+ solvent]	3(C14 Zn), 2(C40 H44 N24 O12), 3(C13 H14 N), 2(H2 O)
Sum formula	C119 H134 C112 N51 O26 Zn3 [+ solvent]	C119 H134 C112 N51 O26 Zn3
Mr	3316.35	3316.27
Dx, g cm ⁻³	1.268	1.268
Z	2	2
Mu (mm ⁻¹)	0.668	0.668
F000	3414.0	3414.0
F000'	3420.39	
h, k, lmax	15, 30, 33	15, 30, 33
Nref	30601	30420
Tmin, Tmax	0.935, 0.938	0.402, 0.746
Tmin'	0.935	

Correction method= # Reported T Limits: Tmin=0.402 Tmax=0.746
AbsCorr = MULTII-SCAN

Data completeness= 0.994

Theta(max)= 25.000

R(reflections) = 0.0824 (15420)

wR2(reflections) =
0.2487 (30420)

S = 1.020

Npar = 1890

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

PLAT230_ALERT_2_C	Hirshfeld Test Diff for	O7	--C39	.	5.2 s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	N15	--C20	.	5.7 s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	O20	--C53	.	6.0 s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	N51	--C107	.	5.7 s.u.
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C15 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C87 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C95 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C99 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C100 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C97 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C110 Check
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of				Zn3 Check
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of				Zn1 Check
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of				Zn2 Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including		N51		0.124 Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including		Zn2		0.128 Check
PLAT334_ALERT_2_C	Small Aver. Benzene C-C Dist	C88	-C93		1.37 Ang.
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds				0.01031 Ang.
PLAT411_ALERT_2_C	Short Inter H...H Contact	H43	..H0AB	.	2.04 Ang.
			-1+x,-1+y,z =		1_445 Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N51	--H	.	Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N49	--H02E	.	Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N50	--H02I	.	Please Check

Alert level G

PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...				12 Report
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms				13 Report
PLAT042_ALERT_1_G	Calc. and Reported Moiety Formula Strings Differ				Please Check
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large				0.12 Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records				1 Report
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records				2 Report
PLAT187_ALERT_4_G	The CIF-Embedded .res File Contains RIGU Records				2 Report
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature			(K)	273 Check
PLAT200_ALERT_1_G	Reported _diffraction_ambient_temperature			(K)	273 Check
PLAT606_ALERT_4_G	Solvent Accessible VOID(S) in Structure				! Info
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels				126 Note
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #				8 Note
	C14 Zn				
PLAT794_ALERT_5_G	Tentative Bond Valency for Zn1		(II)	.	2.02 Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Zn2		(II)	.	2.04 Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Zn3		(II)	.	2.02 Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints				105 Note
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed				! Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .				Please Do !

PLAT941_ALERT_3_G Average HKL Measurement Multiplicity 2.8 Low
PLAT967_ALERT_5_G Note: Two-Theta Cutoff Value in Embedded .res .. 50.0 Degree

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

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

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PLATON version of 19/02/2022; check.def file version of 19/02/2022

