

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) vt-33_sq

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: vt-33_sq

Bond precision:	C-C = 0.0031 A	Wavelength=0.71073
Cell:	a=18.3186(3)	b=18.3186(3) c=11.6298(4)
	alpha=90	beta=90 gamma=90
Temperature:	290 K	
	Calculated	Reported
Volume	3902.63(18)	3902.62(19)
Space group	P 42/n	P 42/n
Hall group	-P 4bc	-P 4bc
Moiety formula	C15 H12 N4 O4 Zn [+ solvent]	?
Sum formula	C15 H12 N4 O4 Zn [+ solvent]	C15 H12 N4 O4 Zn
Mr	377.68	377.66
Dx, g cm ⁻³	1.286	1.286
Z	8	8
Mu (mm ⁻¹)	1.281	1.281
F000	1536.0	1536.0
F000'	1538.84	
h, k, lmax	25, 25, 15	22, 21, 15
Nref	5261	4505
Tmin, Tmax	0.926, 0.938	0.900, 1.000
Tmin'	0.880	

Correction method= # Reported T Limits: Tmin=0.900 Tmax=1.000

AbsCorr = MULTI-SCAN

Data completeness= 0.856

Theta(max)= 29.164

R(reflections)= 0.0358(3519)

wR2(reflections)=
0.0965(4505)

S = 1.047

Npar= 267

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

PLAT215_ALERT_3_C	Disordered C101	has ADP max/min Ratio	3.8	Note
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	02	Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	Zn1	Check



Alert level G

PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	2	Info
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Zn1 --O1 .	13.0	s.u.
PLAT300_ALERT_4_G	Atom Site Occupancy of N1	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of N101	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of N102	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of N202	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C101	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C102	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C201	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C202	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C203	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C301	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C401	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10A	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10B	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H13A	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H13B	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H102	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H201	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H202	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H203	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H301	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H401	Constrained at	0.5 Check
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)	23%	Note
PLAT411_ALERT_2_G	Short Inter H...H Contact H9 ..H203 .	2.13	Ang.
	1/2-y,x,3/2-z =	8_657	Check
PLAT605_ALERT_4_G	Largest Solvent Accessible VOID in the Structure	554	A**3
PLAT789_ALERT_4_G	Atoms with Negative _atom_site_disorder_group #	19	Check
PLAT822_ALERT_4_G	CIF-embedded .res Contains Negative PART Numbers	1	Check
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 !
PLAT899_ALERT_4_G	SHELXL2018 is Deprecated and Succeeded by SHELXL	2019/3	Note
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).	1	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	596	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	2.9	Low
PLAT950_ALERT_5_G	Calculated (ThMax) and CIF-Reported Hmax Differ	3	Units
PLAT951_ALERT_5_G	Calculated (ThMax) and CIF-Reported Kmax Differ	4	Units
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	4	Info

0	ALERT level A	= Most likely a serious problem - resolve or explain
0	ALERT level B	= A potentially serious problem, consider carefully
3	ALERT level C	= Check. Ensure it is not caused by an omission or oversight
37	ALERT level G	= General information/check it is not something unexpected
1	ALERT type 1	CIF construction/syntax error, inconsistent or missing data
5	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
27	ALERT type 4	Improvement, methodology, query or suggestion
3	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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