

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) xg_phcho_zn_new_0m_a

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: xg_phcho_zn_new_0m_a

Bond precision:	C-C = 0.0027 Å	Wavelength=1.54178	
Cell:	a=13.3489(2)	b=14.1103(2)	c=18.9440(3)
	alpha=90	beta=91.461(1)	gamma=90
Temperature:	100 K		
	Calculated	Reported	
Volume	3567.08(9)	3567.08(9)	
Space group	P 21/n	P 1 21/n 1	
Hall group	-P 2yn	-P 2yn	
Moiety formula	C70 H90 B2 N4 O4 Zn2, C6 H14	C70 H90 B2 N4 O4 Zn2, C6 H14	
Sum formula	C76 H104 B2 N4 O4 Zn2	C76 H104 B2 N4 O4 Zn2	
Mr	1290.03	1289.99	
Dx, g cm ⁻³	1.201	1.201	
Z	2	2	
Mu (mm ⁻¹)	1.204	1.204	
F000	1380.0	1380.0	
F000'	1377.00		
h,k,lmax	16,17,23	15,17,23	
Nref	6771	6712	
Tmin,Tmax	0.917,0.953	0.672,0.753	
Tmin'	0.908		

Correction method= # Reported T Limits: Tmin=0.672 Tmax=0.753
AbsCorr = MULTI-SCAN

Data completeness= 0.991 Theta(max)= 70.019

R(reflections)= 0.0336(6115)

wR2(reflections)=
0.0909(6712)

S = 1.057

Npar= 437

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

PLAT911_ALERT_3_C Missing FCF Refl Between Thmin & STh/L= 0.600 35 Report
14 0 0, 14 1 0, 15 1 0, 13 2 0, -15 0 1, 15 0 1,
-15 1 1, -14 1 1, -13 1 1, -15 2 1, -14 2 1, -14 0 2,
-15 1 2, -14 1 2, -13 1 2, -15 2 2, -13 2 2, -15 0 3,
-13 0 3, -15 1 3, -14 1 3, -13 1 3, -15 2 3, -14 0 4,
-15 1 4, -14 1 4, -15 2 4, -14 2 4, -15 0 5, -15 1 5,
-15 1 6, -15 0 7, -15 1 7, -15 1 8, -13 0 9,

Alert level G

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 6 Note
PLAT003_ALERT_2_G Number of Uiso or U(i,j) Restrained non-H Atoms 6 Report
PLAT172_ALERT_4_G The CIF-Embedded .res File Contains DFIX Records 1 Report
PLAT176_ALERT_4_G The CIF-Embedded .res File Contains SADI Records 3 Report
PLAT178_ALERT_4_G The CIF-Embedded .res File Contains SIMU Records 1 Report
PLAT188_ALERT_3_G A Non-default SIMU Restraint Value has been used 0.0100 Report
PLAT191_ALERT_3_G A Non-default SADI Restraint Value has been used 0.0400 Report
PLAT302_ALERT_4_G Anion/Solvent/Minor-Residue Disorder (Resd 2) 100% Note
PLAT302_ALERT_4_G Anion/Solvent/Minor-Residue Disorder (Resd 3) 100% Note
PLAT304_ALERT_4_G Non-Integer Number of Atoms in (Resd 2) 10.70 Check
PLAT304_ALERT_4_G Non-Integer Number of Atoms in (Resd 3) 9.30 Check
PLAT395_ALERT_2_G Deviating X-O-Y Angle From 120 for O003 . 107.6 Degree
PLAT720_ALERT_4_G Number of Unusual/Non-Standard Labels 98 Note
Zn01 O002 O003 N004 N005 C006 C007 C008
C009 C00A C00B H00B C00C C00D H00D C00E
C00F H00F C00G H00A H00C H00E C00H H00H
C00I H00I C00J C00K C00L H00G H00J H00K
C00M H00M C00N H00N C00O H00O C00P C00Q
H00Q C00R H00R C00S H00L H00P H00S C00T
H00T C00U H00U C00V H00V C00W H00W C00X
H00X B00Y C00Z H00Y Ha C010 H01A H01B
H01C C011 H01D H01E H01F C012 H01G H01H
H01I C013 H01J H01K H01L C014 H01M H01N
H01O C015 H01P H01Q H01R C016 H01S H01T
H01U C017 H01V H01W C018 H01X H01Y C0
HOA HOB
PLAT773_ALERT_2_G Check long C-C Bond in CIF: C1 --C1 1.75 Ang.
PLAT860_ALERT_3_G Number of Least-Squares Restraints 64 Note
PLAT883_ALERT_1_G No Info/Value for _atom_sites_solution_primary . Please Do !
PLAT912_ALERT_4_G Missing # of FCF Reflections Above STh/L= 0.600 4 Note
PLAT933_ALERT_2_G Number of HKL-OMIT Records in Embedded .res File 6 Note
-14 0 4, -14 1 1, -14 1 2, -14 1 3, -13 0 3, 14 0 0,
PLAT969_ALERT_5_G The 'Henn et al.' R-Factor-gap value 3.861 Note
Predicted wR2: Based on SigI**2 2.36 or SHELX Weight 8.60
PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density. 11 Info

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

20 **ALERT level G** = General information/check it is not something unexpected

- 1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 - 6 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
 - 9 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 22/08/2024; check.def file version of 21/08/2024

