

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) deh014

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: deh014

Bond precision: C-C = 0.0044 Å Wavelength=0.71073

Cell: a=17.297(4) b=8.0754(16) c=34.424(7)
 alpha=90 beta=94.02(3) gamma=90
Temperature: 293 K

	Calculated	Reported
Volume	4796.5(18)	4796.4(17)
Space group	C 2/c	C 2/c
Hall group	-C 2yc	-C 2yc
Moiety formula	2(C25 H18 Cl2 N P Zn), C H2 Cl2	2(C25 H18 Cl2 N P Zn), C H2 Cl2
Sum formula	C51 H38 Cl6 N2 P2 Zn2	C51 H38 Cl6 N2 P2 Zn2
Mr	1084.25	1084.21
Dx, g cm ⁻³	1.502	1.501
Z	4	4
Mu (mm ⁻¹)	1.439	1.439
F000	2200.0	2200.0
F000'	2207.11	
h,k,lmax	22,10,44	22,10,44
Nref	5543	5540
Tmin,Tmax	0.909,0.965	0.902,0.980
Tmin'	0.835	

Correction method= # Reported T Limits: Tmin=0.902 Tmax=0.980
AbsCorr = MULTI-SCAN

Data completeness= 0.999 Theta(max)= 27.511

R(reflections)= 0.0392(4562) wR2(reflections)= 0.1181(5540)

S = 1.037 Npar= 285

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

PLAT214_ALERT_2_C Atom C26 (Anion/Solvent) ADP max/min Ratio 4.2 prolat



Alert level G

PLAT083_ALERT_2_G SHELXL Second Parameter in WGHT Unusually Large. 5.01 Why ?
PLAT199_ALERT_1_G Reported _cell_measurement_temperature (K) 293 Check
PLAT200_ALERT_1_G Reported _diffrn_ambient_temperature (K) 293 Check
PLAT232_ALERT_2_G Hirshfeld Test Diff (M-X) Zn1 -- P1 .. 6.3 su
PLAT300_ALERT_4_G Atom Site Occupancy of *H26A is Constrained at 0.500 Check
PLAT300_ALERT_4_G Atom Site Occupancy of *H26B is Constrained at 0.500 Check
PLAT910_ALERT_3_G Missing # of FCF Reflection(s) Below Th(Min) ... 1 Report
PLAT912_ALERT_4_G Missing # of FCF Reflections Above STh/L= 0.600 3 Note

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

2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
3 ALERT type 2 Indicator that the structure model may be wrong or deficient
1 ALERT type 3 Indicator that the structure quality may be low
3 ALERT type 4 Improvement, methodology, query or suggestion
0 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*, 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.

