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: jwjw003

```
Bond precision:   C-C = 0.0032 A            Wavelength=0.71073

Cell:           a=13.7206(8)     b=13.3774(8)        c=12.0880(7)
                alpha=90         beta=101.386(1)     gamma=90
Temperature:    296 K

                Calculated                 Reported
Volume          2175.0(2)                  2175.0(2)
Space group     P 21/c                     P2(1)/c
Hall group      -P 2ybc                    ?
Moiety formula  C23 H17 Cl N4 O4 Zn        C23 H17 Cl N4 O4 Zn
Sum formula     C23 H17 Cl N4 O4 Zn        C23 H17 Cl N4 O4 Zn
Mr              514.25                     514.23
Dx,g cm-3       1.571                      1.570
Z               4                          4
Mu (mm-1)       1.291                      1.291
F000            1048.0                     1048.0
F000'           1050.09
h,k,lmax        17,17,15                   17,17,15
Nref            4751                       4735
Tmin,Tmax       0.770,0.772                0.773,0.782
Tmin'           0.755

Correction method= # Reported T Limits: Tmin=0.773 Tmax=0.782
AbsCorr = MULTI-SCAN

Data completeness= 0.997          Theta(max)= 27.000

R(reflections)= 0.0316( 3959)     wR2(reflections)= 0.0874( 4735)

S = 1.032                   Npar= 322
```

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 G

```
PLAT003_ALERT_2_G Number of Uiso or Uij Restrained non-H Atoms ...        4 Report
PLAT005_ALERT_5_G No Embedded Refinement Details Found  in the CIF    Please Do !
PLAT164_ALERT_4_G Nr. of Refined C-H H-Atoms in Heavy-Atom Struct.        6 Note
PLAT232_ALERT_2_G Hirshfeld Test Diff (M-X)  Zn1        --N1      .     6.5 s.u.
PLAT794_ALERT_5_G Tentative Bond Valency for Zn1        (II)      .    1.95 Info
PLAT860_ALERT_3_G Number of Least-Squares Restraints .............        2 Note
PLAT899_ALERT_4_G SHELXL97  is Deprecated and Succeeded by SHELXL/     2018 Note
```

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

   0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
   2 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
   2 ALERT type 4 Improvement, methodology, query or suggestion
   2 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.

PLATON version of 16/05/2021; check.def file version of 13/05/2021