checkCIF (basic structural check) running

Checking for embedded fcf data in CIF .. No extractable fcf data in found in CIF

checkCIF/PLATON (basic structural check)

Structure factors have been supplied for datablock(s) xstr1130

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. <u>CIF dictionary</u>. Please wait while processing <u>Interpreting this repu</u>

Structure factor report

Datablock: xstr1130

```
Bond precision:
                                                                       C-C = 0.0020 A
                                                                                                                                                                         Wavelength=1.54184
                                    a=12.1425(2)
                                                                                      b=12.2037(2)
                                                                                                                                                     c=13.9522(3)
 Cell:
                                        alpha=90
                                                                                            beta=93.853(2) gamma=90
  Temperature: 151 K
                                                                  Calculated
                                                                                                                                                                              Reported
                                                                 2062.81(7)
C 2/c
-C 2yc
                                                                                                                                                                             2062.81(7)
C 1 2/c 1
-C 2yc
  Volume
  Hall group
Moiety formula
                                                                  C22 H24 A1 C1 N2 O2
                                                                                                                                                                             C11 H12 Al0.5 Cl0.5 N C
   Sum formula
                                                                   C22 H24 A1 C1 N2 O2
                                                                                                                                                                             C11 H12 Al0.5 Cl0.5 N O
                                                                                                                                                                             205.44
 Dx,g cm-3
                                                                 1.323
                                                                                                                                                                             2.212
  Mu (mm-1)
                                                                 2 212
  F000
                                                                  868.41
  h,k,lmax
                                                                 14,15,17
                                                                                                                                                                             15,15,17
                                                                  2051
0.802,0.957
                                                                                                                                                                             2036
0.911,1.000
   Tmin,Tmax
  Tmin
                                                                  0.802
  Correction method= # Reported T Limits: Tmin=0.911 Tmax=1.000 AbsCorr = MULTI-SCAN
 Data completeness= 0.993
                                                                                                         Theta(max)= 72.640
                                                                                                                                                        wR2(reflections)= 0.0865(
2036)
  S = 1.070
                                                                         Nnar= 130
 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.
Please Check
                                                                                                                                                                                                                          Please Check
                                                                                                                                                                                                                        Please Check
6 Report
-2 4 16,
  ●Alert level G
Alert level G

PLAT045_ALERT 1_G Calculated and Reported Z Differ by a Factor ... 0

PLAT045_ALERT 1_G Reported F000 Differs from Calcd (or Missing)... Ple

PLAT045_ALERT 1_G H-atoms ref, but _hydrogen_treatment Reported as

PLAT05_ALERT 1_G Teneded as

PLAT05_ALERT 1_G Teneded as Plat06_ALERT 1_G H-atoms ref, but _hydrogen_treatment Reported as

PLAT05_ALERT 1_G Teneded as

PLAT05_ALERT 1_G Teneded as

PLAT05_ALERT 1_G H-atoms ref, but _hydrogen_treatment Reported as

PLAT05_ALERT 1_G H-atoms ref, b
                                                                                                                                                                                                                               0.500 Check
                                                                                                                                                                                                                            Please Check
constr Check
Please Note
                                                                                                                                                                                                                                 3.00 Info
                                                                                                                                                                                                                                         3 Note
                                                                                                                                                                                                                              4.949 Note
                                                                                                                                                                                                                          12 Info
0.0181 Check
 PLAT983 ALERT 1 G The Al-f"=
And 2 other PLAT983 Alerts
                                                                                            0.2420 Deviates from IT-Value =
                                                                                                                                                                                                                          0.2455 Check
      0 ALERT level A = Most likely a serious problem - resolve or explain
0 ALERT level B = A potentially serious problem, consider carefully
4 ALERT level C = Check. Ensure it is not caused by an omission or oversight
16 ALERT level G = General information/check it is not something unexpected
      12 ALERT type 1 CIF construction/syntax error, inconsistent or missing data 1 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
           3 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

PLATON version of 22/08/2024; check.def file version of 21/08/2024

Datablock xstr1130 - ellipsoid plot

Download CIF editor (publCIF) from the IUCr Download CIF editor (enCIFer) from the CCDC Test a new CIF entry