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) xstr1128

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 repor</u>

Structure factor report

Datablock: xstr1128

```
Bond precision:
                                  C-C = 0 0019 A
                                                                                 Wavelength=1.54184
                  a=9.9292(1)
                                           b=12.2705(1)
                                                                        c=24.4057(2)
Cell:
                                                                       gamma=90
                   alpha=90
                                            beta=90
 Temperature: 153 K
                               Calculated
                                                                                    Reported
                               2973.50(5)
P b c a
-P 2ac 2ab
                                                                                   2973.50(5)
P b c a
-P 2ac 2ab
 Volume
 Hall group
Moiety formula
                                C12 H20 Al Cl N2 O2
                                                                                   C12 H20 Al Cl N2 O2
                               C12 H20 A1 C1 N2 02
C12 H20 A1 C1 N2 02
286.73
1.281
 Sum formula
                                                                                    C12 H20 Al Cl N2 O2
                                                                                   286.74
1.281
Dx,g cm-3
 Mu (mm-1)
                               2 827
                                                                                    2 827
 F000
                               1223.45
 h,k,lmax
                               12,15,30
                                                                                   12,15,30
                               2958
0.873,0.945
                                                                                   2956
0.624,1.000
 Tmin,Tmax
 Tmin
                               0.712
 Correction method= # Reported T Limits: Tmin=0.624 Tmax=1.000
AbsCorr = MULTI-SCAN
Data completeness= 0.999
                                                   Theta(max)= 72.710
                                                                         wR2(reflections)= 0.0847(
2956)
 5 = 1.033
                                   Npar= 169
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.
PLAT767 ALERT 4 C INS Embedded LIST 6 Instruction Should be LIST 4
                                                                                                         Please Check
Please Check
                                                                                                        0.00010 Ang.
0.00020 Ang.
                                                                                                         Please Note
3.03 Info
                                                                                                           2 Note
4.867 Note
                                                                                                         0.0181 Check
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 1 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
    9 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 0 ALERT type 3 Indicator that the structure quality may be low 5 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 22/08/2024; check.def file version of 21/08/2024 **Datablock xstr1128** - ellipsoid plot

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