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) xstr1688_auto

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 repo</u>

Structure factor report

Datablock: xstr1688_auto

```
Bond precision:
                                            C-C = 0 0035 A
                                                                                                         Wavelength=1.54184
                       a=8.1570(1)
                                                         b=13.1534(1)
                                                                                             c=20.5029(2)
 Cell:
                         alpha=90
                                                         beta=90
 Temperature: 151 K
                                         Calculated
                                                                                                            Reported
                                        2199.80(4)
P 21 21 21
P 2ac 2ab
                                                                                                            2199.80(4)
P 21 21 21
P 2ac 2ab
 Volume
 Hall group
Moiety formula
                                         C16 H36 Al2 Li N O5
                                                                                                            C16 H36 Al2 Li N O5
  Sum formula
                                         C16 H36 Al2 Li N O5
                                                                                                            C16 H36 Al2 Li N 05
                                                                                                            1.158
 Dx,g cm-3
                                         1.158
 Mu (mm-1)
                                        1.382
                                                                                                            1 382
 F000
                                         835.84
 h,k,lmax
                                         10,16,26
                                                                                                           10,16,25
                                         4763[ 2715]
0.905,0.933
                                                                                                            4652
0.846,1.000
  Tmin,Tmax
 Tmin
                                         0.871
 Correction method= # Reported T Limits: Tmin=0.846 Tmax=1.006 AbsCorr = MULTI-SCAN
 Data completeness= 1.71/0.98
                                                                  Theta(max)= 78.840
                                                                                               wR2(reflections)= 0.1280(
4652)
 R(reflections)= 0.0416( 4266)
 5 = 1.032
                                               Nnar= 250
 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.
 STRVADI ALERT 4 C Flack test results are ambiguous.
From the CIF: _refine_ls_abs_structure_Flack 0.420
From the CIF: _refine_ls_abs_structure_Flack_su 0.04
PLAT927_ALERT_1 C Reported and Calculated wR2 Differ by .......
                                                                                                                                         0.0019 Check
PLATES ALERT 4.G Flack x Value Deviates > 3.0 * sigma from Zero .
PLAT058 ALERT 4.G Flack x Value Deviates > 3.0 * sigma from Zero .
PLAT058 ALERT 4.G s.u. on b - Axis Small or Missing ......
PLAT142 ALERT 4.G s.u. on c - Axis Small or Missing .....
PLAT220 ALERT 4.G Number of Unusual/Non-Standard Labels ......
                                                                                                                                         0.420 Note
Please Check
                                                                                                                                      0.00010 Ang
                                                                                                                                      0.00020 Ang
                                                                                                                                                59 Note
                                                                                       0005
H00B
H00G
                                                                                                       0006
C00C
H00H
C00H
                           A101
                                                                                                                       H00C
                                                                                                                                      C00D
C00F
                                         H00E
H00K
H00P
H00V
H00
Hf
                                                                         C00E
                                                                         C00J
                           C00I
C00N
                                                                                                                                        Please Note
R Verify
                                                                                                                                          45 Note
3.847 Note
                                                                                                                                        0.0181 Check
More ...
PLAT983 ALERT 1 G The Al-f"=
PLAT983 ALERT 1 G The O-f"=
                                                          0.2420 Deviates from IT-Value = 0.0338 Deviates from IT-Value =
    0 ALERT level A = Most likely a serious problem - resolve or explain 0 ALERT level B = A potentially serious problem, consider carefully 2 ALERT level C = Check. Ensure it is not caused by an omission or oversight 15 ALERT level G = General information/check it is not something unexpected
     7 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 8 ALERT type 4 Improvement, methodology, query or suggestion 1 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 xstr1688_auto - ellipsoid plot

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