checkCIF (basic structural check) running

Checking for embedded fcf data in CIF.

Found embedded fcf data in CIF. Extracting fcf data from uploaded CIF, please wait

checkCIF/PLATON (basic structural check)

Structure factors have been supplied for datablock(s) xstr1591_autored2

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 reg</u>

Datablock: xstr1591_autored2

```
C-C = 0 0085 A
                                                                                                                 Wavelength=1.54184
                        a=7.7848(2)
                                                             b=10.9557(3)
                                                                                                    c=15.1427(3)
 Cell:
                           alpha=90
                                                             beta=90
 Temperature: 150 K
                                           Calculated
                                                                                                                     Reported
                                           1291.49(5)
P 21 21 21
P 2ac 2ab
                                                                                                                    1291.49(5)
P 21 21 21
P 2ac 2ab
 Volume
 Hall group
Moiety formula
                                            C8 H20 Al2 Li N O
                                                                                                                    C8 H20 Al2 Li N O
                                           C8 H20 A12 L1 N 0
207.15
1.065
 Sum formula
                                                                                                                    C8 H20 Al2 Li N O
                                                                                                                    207.15
 Dx,g cm-3
                                           1.751
448.0
 Mu (mm-1)
                                                                                                                    1 751
 F000
                                            450.51
 h,k,lmax
                                           9,13,19
                                                                                                                    9,13,19
                                           2774[ 1608]
0.863,0.900
                                                                                                                    0.828,1.000
  Tmin,Tmax
 Tmin
                                            0.756
 Correction method= # Reported T Limits: Tmin=0.828 Tmax=1.000 AbsCorr = GAUSSIAN
 Data completeness= 1.68/0.98
                                                                       Theta(max)= 78.945
                                                                                                      wR2(reflections)= 0.1768(
2705)
 R(reflections)= 0.0646( 2505)
 S = 1.138
                                                Npar= 140
 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.
Flack test results are ambiguous.

From the CIF: _refine_ls_abs_structure_Flack 0.350
From the CIF: _refine_ls_abs_structure_Flack 0.450
PLAT994_ALERT_2_C Ratio of Maximum / Minimum Residual Density ...
PLAT996_ALERT_3_C_U Bond Precision on C-C Bonds ......
PLAT906_ALERT_3_C_U Large K Value in the Analysis of Variance .....
                                                                                                                                                        3.57 Report
                                                                                                                                                      .0085 Ang.
3.155 Check
■Alert Level G
PLAT002 ALERI 2 G Number of Distance or Angle Restraints on AtSite
PLAT003 ALERI 5 G Polymeric Structure Found with Maximum Dimension
PLAT033 ALERI 4 G Flack x Value Deviates > 3.0 * sigma from Zero .
PLAT032 ALERI 2 G SHEUX First Parameter in WGHT Unusually Large
PLAT172 ALERI 4 G The CIF-Embedded .res File Contains DFIX Records
PLAT175 ALERI 4 G The CIF-Embedded .res File Contains SADI Records
PLAT176 ALERI 4 G The CIF-Embedded .res File Contains SADI Records
PLAT08 ALERI 2 G Full Occupancy Atom Hb
with # Connections
And 2 other PLAT303 Alerts
                                                                                                                                                             4 Note
1 Info
                                                                                                                                                     0.350 Note
0.10 Report
1 Report
                                                                                                                                                       2.00 Check
 More ...
PLAT720 ALERT 4 G Number of Unusual/Non-Standard Labels .......
                                                                                                                                                            4 Note
1.46 Ratio
                                                                                                                                                              9 Note
                                                                                                                                                      17 Note
6.998 Note
                                                                                                                                                            2 Info
       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
5 ALERT level G = General information/check it is not something unexpected
      0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data 7 ALERT type 2 Indicator that the structure model may be wrong or deficient 3 ALERT type 3 Indicator that the structure quality may be low 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

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 <u>full publication checks</u> 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 11/11/2024; check.def file version of 11/11/2024 Datablock xstr1591_autored2 - ellipsoid plot

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