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) AB1710

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 Please wait while processing Interpreting this report

Structure factor report

Datablock: AB1710

Bond precision: C-C = 0.0050 AWavelength=0.71073 Cell: a=8.6429(5)b=9.5129(5)c=12.9337(6)alpha=80.017(4) beta=72.909(5) gamma=77.318(5) Temperature: 173 K Calculated Reported Volume 984.86(9) 984.87(10) Space group P -1 P -1 -P 1 -P 1 Hall group Moiety formula C20 H18 Br4 N2 C20 H18 Br4 N2 Sum formula C20 H18 Br4 N2 C20 H18 Br4 N2 Mr 605.96 605.99 Dx,g cm-3 2.043 2.043 2 Mu (mm-1)8.180 8.179 F000 584.0 581.8 F000' 582.06 11,12,17 h,k,lmax 11,12,17 Nref 4830 3873 Tmin, Tmax 0.073,0.116 0.151,0.272 Tmin' 0.031 Correction method= # Reported T Limits: Tmin=0.151 Tmax=0.272 AbsCorr = ANALYTICAL Data completeness= 0.802 Theta(max)= 28.150 wR2(reflections)= 0.0495(R(reflections) = 0.0314(3033)

3873)

The following ALERTS were generated. Each ALERT has the format **test-name_ALERT_alert-type_alert-level**.

Npar= 398

Click on the hyperlinks for more details of the test.

Alert level A

S = 1.040

PLAT211_ALERT_2_A ADP of Atom H1 is N.P.D. or (nearly) 2D . Please Check And 13 other PLAT211 Alerts Less ... Please Check PLAT211_ALERT_2_A ADP of Atom H4 is N.P.D. or (nearly) 2D. is N.P.D. or (nearly) 2D . Please Check PLAT211_ALERT_2_A ADP of Atom H6 PLAT211_ALERT_2_A ADP of Atom H8A Please Check is N.P.D. or (nearly) 2D. PLAT211_ALERT_2_A ADP of Atom H9 is N.P.D. or (nearly) 2D. Please Check PLAT211_ALERT_2_A ADP of Atom H12B is N.P.D. or (nearly) 2D . Please Check

```
PLAT211_ALERT_2_A ADP of Atom H14
                                       is N.P.D. or (nearly) 2D.
                                                                Please Check
PLAT211_ALERT_2_A ADP of Atom H19
                                       is N.P.D. or (nearly) 2D.
                                                                Please Check
PLAT211_ALERT_2_A ADP of Atom H20A
                                        is N.P.D. or (nearly) 2D.
                                                                 Please Check
PLAT211_ALERT_2_A ADP of Atom H20B
                                        is N.P.D. or (nearly) 2D.
                                                                 Please Check
PLAT211_ALERT_2_A ADP of Atom H21A
                                        is N.P.D. or (nearly) 2D.
                                                                 Please Check
PLAT211_ALERT_2_A ADP of Atom H21B
                                                                 Please Check
                                        is N.P.D. or (nearly) 2D.
PLAT211_ALERT_2_A ADP of Atom H22A
                                        is N.P.D. or (nearly) 2D.
                                                                 Please Check
PLAT211_ALERT_2_A ADP of Atom H22B
                                        is N.P.D. or (nearly) 2D.
                                                                 Please Check
Alert level B
PLAT351_ALERT_3_B Long C-H (X0.96,N1.08A) C22
                                                    - H22A
                                                                  1.18 Ang.
Alert level C
PLAT222 ALERT 3 C NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range
                                                                       5.3 Ratio
PLAT351 ALERT 3 C Long C-H (X0.96,N1.08A) C6
                                                                 1.11 Ang.
And 8 other PLAT351 Alerts
Less ...
PLAT351_ALERT_3_C Long C-H (X0.96,N1.08A) C8
                                                   - H8A
                                                                 1.12 Ang.
PLAT351_ALERT_3_C Long C-H (X0.96,N1.08A) C9
                                                                 1.14 Ang.
                                                   - H9
PLAT351_ALERT_3_C Long C-H (X0.96,N1.08A) C12
                                                    - H12A
                                                                  1.13 Ang.
PLAT351_ALERT_3_C Long C-H (X0.96,N1.08A) C12
                                                    - H12B
                                                                  1.14 Ang.
PLAT351_ALERT_3_C Long C-H (X0.96,N1.08A) C14
                                                    - H14
                                                                  1.15 Ang.
PLAT351_ALERT_3_C Long C-H (X0.96,N1.08A) C20
                                                    - H20A
                                                                  1.14 Ang.
PLAT351 ALERT 3 C Long C-H (X0.96,N1.08A) C20
                                                    - H20B
                                                                  1.12 Ang.
PLAT351_ALERT_3_C Long C-H (X0.96,N1.08A) C21
                                                    - H21A
                                                                  1.14 Ang.
PLAT353_ALERT_3_C Long N-H (N0.87,N1.01A) N19
                                                    - H19
                                                                  1.02 Ang.
Alert level G
PLAT068_ALERT_1_G Reported F000 Differs from Calcd (or Missing)...
                                                                  Please Check
PLAT164_ALERT_4_G Nr. of Refined C-H H-Atoms in Heavy-Atom Struct.
                                                                      16 Note
                                                                 3.56 Ang.
PLAT434_ALERT_2_G Short Inter HL..HL Contact Br15
                                                   ..Br17
                                             1_655 Check
                                1+x,y,z =
PLAT793 ALERT 4 G Model has Chirality at C9
                                                (Centro SpGr)
                                                                   R Verify
                                                (Centro SpGr)
PLAT793_ALERT_4_G Model has Chirality at C11
                                                                   S Verify
PLAT802 ALERT 4 G CIF Input Record(s) with more than 80 Characters
                                                                       1 Info
PLAT933 ALERT 2 G Number of HKL-OMIT Records in Embedded .res File
                                                                        2 Note
         0 1 1, 1 0 0,
PLAT941_ALERT_3_G Average HKL Measurement Multiplicity ......
                                                                   1.5 Low
PLAT979_ALERT_1_G NoSpherA2 Scattering Factors Used ......
                                                                Please Note
 14 ALERT level A = Most likely a serious problem - resolve or explain
 1 ALERT level B = A potentially serious problem, consider carefully
```

11 ALERT level C = Check. Ensure it is not caused by an omission or oversight

9 **ALERT level G** = General information/check it is not something unexpected

2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data

16 ALERT type 2 Indicator that the structure model may be wrong or deficient

13 ALERT type 3 Indicator that the structure quality may be low

4 ALERT type 4 Improvement, methodology, query or suggestion

0 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

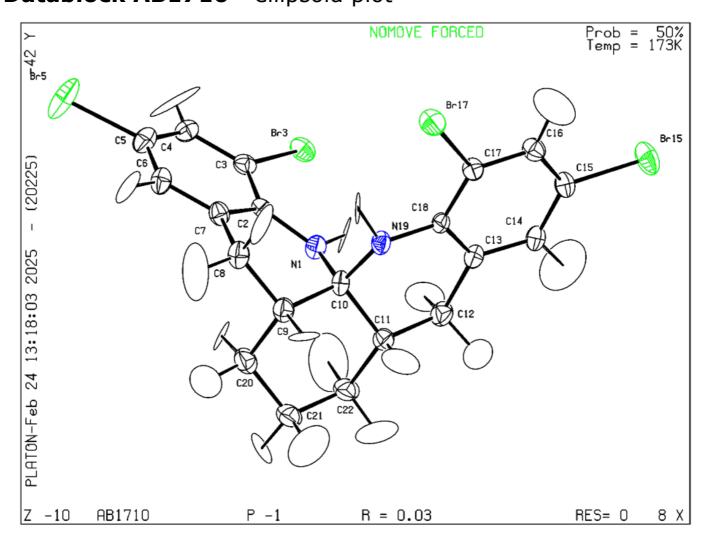
A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section 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 02/02/2025; check.def file version of 02/02/2025 **Datablock AB1710** - ellipsoid plot



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