# checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 181108c

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 Interpreting this report

# Datablock: 181108c

Bond precision: C-C = 0.0059 AWavelength=0.71073 Cell: a=5.7233(5) b=7.9155(7) c=12.9158(11)alpha=93.558(1) beta=96.119(2) gamma=91.640(1) Temperature: 293 K Calculated Reported Volume 580.30(9) 580.30(9) Space group P-1 P -1 Hall group -P 1 ? Moiety formula C7 H8 F N2 Na O7 S ? Sum formula C7 H8 F N2 Na O7 S C7 H8 F N2 Na O7 S Mr 306.20 306.20 1.752 1.752 Dx,g cm-3 2 Ζ 2 Mu (mm-1) 0.362 0.362 F000 312.0 312.0 F000′ 312.52 h,k,lmax 6,9,15 6,9,15 Nref 2050 2018 0.859,0.937 0.848,0.938 Tmin,Tmax Tmin′ 0.844 Correction method= # Reported T Limits: Tmin=0.848 Tmax=0.938 AbsCorr = MULTI-SCAN Data completeness= 0.984 Theta(max) = 25.000R(reflections) = 0.0782(1488) wR2(reflections) = 0.2058(2018) S = 1.106Npar= 172

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.

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### Alert level C

PLAT242\_ALERT\_2\_C Low'MainMol' Ueq as Compared to Neighbors ofS1 CheckPLAT340\_ALERT\_3\_C Low Bond Precision onC-C Bonds .....0.00586 Ang.

#### Alert level G

| PLAT004_ALERT_5_G Polymeric Structure Found with Maximum Dimension | 1 Info      |
|--|-------------|
| PLAT005_ALERT_5_G No Embedded Refinement Details Found in the CIF  | Please Do ! |
| PLAT007_ALERT_5_G Number of Unrefined Donor-H Atoms                | 4 Report    |
| PLAT066_ALERT_1_G Predicted and Reported Tmin&Tmax Range Identical | ? Check     |
| PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large   | 0.12 Report |
| PLAT093_ALERT_1_G No s.u.'s on H-positions, Refinement Reported as | mixed Check |
| PLAT199_ALERT_1_G Reported _cell_measurement_temperature (K)       | 293 Check   |
| PLAT200_ALERT_1_G Reporteddiffrn_ambient_temperature (K)           | 293 Check   |
| PLAT764_ALERT_4_G Overcomplete CIF Bond List Detected (Rep/Expd) . | 1.23 Ratio  |
| PLAT899_ALERT_4_G SHELXL97 is Deprecated and Succeeded by SHELXL   | 2018 Note   |

2 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 10 ALERT level G = General information/check it is not something unexpected 6 ALERT type 1 CIF construction/syntax error, inconsistent or missing data 2 ALERT type 2 Indicator that the structure model may be wrong or deficient 1 ALERT type 3 Indicator that the structure quality may be low 2 ALERT type 4 Improvement, methodology, query or suggestion 3 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.

## Validation response form

Please find below a validation response form (VRF) that can be filled in and pasted into your CIF.

```
# start Validation Reply Form
_vrf_EXPT005_181108c
;
PROBLEM: _exptl_crystal_description is missing
RESPONSE: ...
_vrf_PLAT902_181108c
PROBLEM: No (Interpretable) Reflections Found in FCF .... Please Check
RESPONSE: ...
_vrf_PLAT242_181108c
PROBLEM: Low
             'MainMol' Ueq as Compared to Neighbors of
                                                               S1 Check
RESPONSE: ...
_vrf_PLAT340_181108c
;
PROBLEM: Low Bond Precision on C-C Bonds ..... 0.00586 Ang.
RESPONSE: ...
# end Validation Reply Form
```

PLATON version of 17/03/2019; check.def file version of 04/03/2019

