## checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

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.

## Datablock: ds

```
Bond precision: C-C = 0.0071 A
                                        Wavelength=0.71073
Cell:
                a=5.5826(8)
                               b=16.132(2)
                                                 c=11.8958(13)
                alpha=90
                               beta=90.12(5)
                                                 gamma=90
Temperature:
                170 K
               Calculated
                                         Reported
Volume
               1071.3(2)
                                         1071.3(2)
Space group
              P 21
                                         P 1 21 1
Hall group
               P 2yb
                                         P 2yb
Moiety formula C23 H20 Cl F2 N O4 S
                                         C23 H20 Cl F2 N O4 S
Sum formula
               C23 H20 Cl F2 N O4 S
                                         C23 H20 Cl F2 N O4 S
Mr
               479.91
                                         479.91
               1.488
                                         1.488
Dx,g cm-3
               2
                                          2
Ζ
Mu (mm-1)
               0.325
                                         0.325
F000
               496.0
                                         496.0
F000′
               496.81
h,k,lmax
               7,20,14
                                         7,20,14
               4455[ 2309]
Nref
                                         4273
               0.954,0.974
                                         0.693,0.745
Tmin,Tmax
Tmin'
               0.940
Correction method= # Reported T Limits: Tmin=0.693 Tmax=0.745
AbsCorr = MULTI-SCAN
Data completeness= 1.85/0.96 Theta(max)= 26.564
R(reflections) = 0.0434(3351) wR2(reflections) = 0.0982(4273)
S = 1.035
                          Npar= 290
```

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.

```
Alert level C
PLAT340_ALERT_3_C Low Bond Precision on C-C Bonds .....
                                                                  0.00709 Ang.
Alert level G
PLAT007_ALERT_5_G Number of Unrefined Donor-H Atoms .....
                                                                       1 Report
PLAT012_ALERT_1_G No __shelx_res_checksum Found in CIF ......
                                                                  Please Check
PLAT791_ALERT_4_G Model has Chirality at C8 (Chiral SPGR)
                                                                   R Verify
PLAT791_ALERT_4_G Model has Chirality at C9
                                                 (Chiral SPGR)
                                                                        S Verify
  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
  4 ALERT level G = General information/check it is not something unexpected
  1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
  O 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
  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.

