## checkCIF/PLATON report

Structure factors have been supplied for datablock(s) x

No syntax errors found. CIF dictionary Interpreting this report

### Datablock: x

Mr

Bond precision: C-C = 0.0035 AWavelength=0.71073

Cell: a=9.0021(10)b=14.9816(18)c=16.5464(19)

> beta=90 alpha=90 gamma=90

298 K Temperature:

Calculated Reported Volume 2231.5(4) 2231.5(4)Space group P 21 21 21 P 212121

Hall group P 2ac 2ab ?

C21 H32 N2 O3 S Moiety formula C21 H32 N2 O3 S Sum formula C21 H32 N2 O3 S C21 H32 N2 O3 S

392.56 392.55 Dx,g cm-3 1.168 1.168 4 Mu (mm-1)0.167 0.167 F000 848.0 848.0

F000' 848.83 h,k,lmax 10,17,19 10,17,19 Nref 2265[ 3964] 3961

Tmin, Tmax 0.940,0.953 0.805,0.953

0.940 Tmin'

Correction method= MULTI-SCAN

Data completeness= 1.75/1.00 Theta(max) = 25.080

R(reflections) = 0.0367(3270)wR2(reflections) = 0.0977(3961)

S = 1.021Npar= 274

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 B

PLAT230\_ALERT\_2\_B Hirshfeld Test Diff for N1-- C1 7.5 su . .

Alert level C

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PLAT230_ALERT_2_C Hirshfeld Test Diff for O2 -- C1 .. 5.5 su
PLAT230_ALERT_2_C Hirshfeld Test Diff for C16 -- C17 .. 5.3 su
PLAT241_ALERT_2_C Check High Ueq as Compared to Neighbors for O2
PLAT241_ALERT_2_C Check High Ueq as Compared to Neighbors for C8
PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for C18
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Alert level G REFLT03\_ALERT\_4\_G Please check that the estimate of the number of Friedel pairs is correct. If it is not, please give the correct count in the \_publ\_section\_exptl\_refinement section of the submitted CIF. From the CIF: \_diffrn\_reflns\_theta\_max From the CIF: \_reflns\_number\_total 3961 2265 Count of symmetry unique reflns Completeness (\_total/calc) 174.88% TEST3: Check Friedels for noncentro structure Estimate of Friedel pairs measured 1696 Fraction of Friedel pairs measured 0.749
Are heavy atom types Z>Si present yes PLAT005\_ALERT\_5\_G No \_iucr\_refine\_instructions\_details in CIF ... PLAT242\_ALERT\_2\_G Check Low Ueq as Compared to Neighbors for PLAT242\_ALERT\_2\_G Check Low Ueq as Compared to Neighbors for C3A C3B PLAT301\_ALERT\_3\_G Note: Main Residue Disorder ..... 22 Perc. PLAT720\_ALERT\_4\_G Number of Unusual/Non-Standard Labels ..... PLAT791\_ALERT\_4\_G Note: The Model has Chirality at C12 (Verify)
PLAT791\_ALERT\_4\_G Note: The Model has Chirality at C14 (Verify) R S PLAT811\_ALERT\_5\_G No ADDSYM Analysis: Too Many Excluded Atoms .... ! PLAT850\_ALERT\_4\_G Check Flack Parameter Exact Value 0.00 and su .. 0.07

```
0 ALERT level A = Most likely a serious problem - resolve or explain
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54 Perc.

PLAT909\_ALERT\_3\_G Percentage of Observed Data at Theta(Max) still

<sup>1</sup> **ALERT level B** = A potentially serious problem, consider carefully

<sup>5</sup> ALERT level C = Check. Ensure it is not caused by an omission or oversight

<sup>11</sup> ALERT level G = General information/check it is not something unexpected

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

<sup>8</sup> ALERT type 2 Indicator that the structure model may be wrong or deficient

<sup>2</sup> ALERT type 3 Indicator that the structure quality may be low

 $<sup>{\</sup>tt 5}$  ALERT type  ${\tt 4}$  Improvement, methodology, query or suggestion

<sup>2</sup> 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**

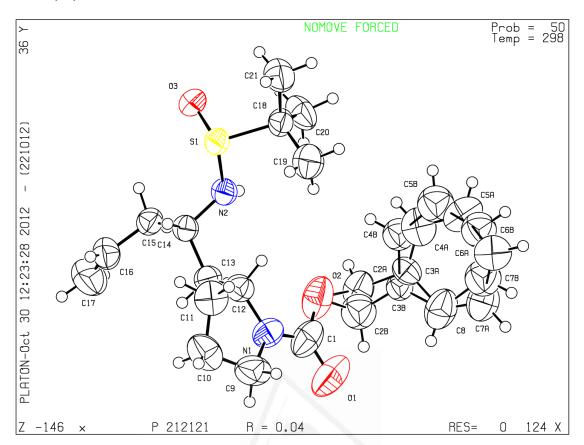
A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E*, 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 22/10/2012; check.def file version of 16/10/2012

Universitat d'Alacant Universidad de Alicante



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