# 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.

No syntax errors found.     CIF dictionary     Interpreting this report

## Datablock: rwgs120620

```
Bond precision:    C-C = 0.0030 A            Wavelength=0.71073

Cell:              a=9.4106(6)      b=17.6445(12)      c=10.2584(7)
                   alpha=90         beta=90            gamma=90
Temperature:       173 K

                   Calculated                 Reported
Volume             1703.4(2)                  1703.4(2)
Space group        P n m a                    P n m a
Hall group         -P 2ac 2n                  -P 2ac 2n
Moiety formula     C14 H31 In N2              C14 H31 In N2
Sum formula        C14 H31 In N2              C14 H31 In N2
Mr                 342.23                     342.23
Dx,g cm-3          1.334                      1.334
Z                  4                          4
Mu (mm-1)          1.374                      1.374
F000               712.0                      712.0
F000'              709.23
h,k,lmax           14,26,15                   14,26,15
Nref               3053                       3035
Tmin,Tmax          0.508,0.577                0.547,0.609
Tmin'              0.498

Correction method= # Reported T Limits: Tmin=0.547 Tmax=0.609
AbsCorr = MULTI-SCAN

Data completeness= 0.994        Theta(max)= 32.040

R(reflections)= 0.0247( 2680)   wR2(reflections)= 0.0541( 3035)

S = 1.296               Npar= 93
```

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**
```
PLAT391_ALERT_3_C Deviating Methyl C8        H-C-H Bond Angle ....       102 Degree
PLAT391_ALERT_3_C Deviating Methyl C8        H-C-H Bond Angle ....       102 Degree
```

## ⚪ **Alert level G**
```
PLAT005_ALERT_5_G No Embedded Refinement Details Found  in the CIF     Please Do !
PLAT164_ALERT_4_G Nr. of Refined C-H H-Atoms in Heavy-Atom Struct.         2 Note
PLAT899_ALERT_4_G SHELXL97   is Deprecated and Succeeded by SHELXL      2017 Note
```

```
   0 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
   3 ALERT level G = General information/check it is not something unexpected

   0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
   0 ALERT type 2 Indicator that the structure model may be wrong or deficient
   2 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
```

## 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_PLAT391_rwgs120620
;
PROBLEM: Deviating Methyl C8        H-C-H Bond Angle ....       102 Degree
RESPONSE: ...
;
# end Validation Reply Form
```

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.

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**PLATON version of 13/12/2017; check.def file version of 12/12/2017**