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|-------------------|--|-------------|
| PLAT094_ALERT_2_C | Ratio of Maximum / Minimum Residual Density | 2.19 |
| PLAT222_ALERT_3_C | Large Non-Solvent H Uiso(max)/Uiso(min) .. | 6.4 Ratio |
| PLAT245_ALERT_2_C | U(iso) H03 Smaller than U(eq) N3 by ... | 0.011 AngSq |
| PLAT340_ALERT_3_C | Low Bond Precision on C-C Bonds | 0.0043 Ang |

● **Alert level G**

HYDTR01_ALERT_1_G Extra text has been found in the `_refine_ls_hydrogen_treatment` field. Explanatory text should be in the `_publ_section_refinement` field. Hydrogen treatment given as NH free with DFIX, rigid methyls, others Hydrogen treatment identified as riding

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.

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|--|--------|
| From the CIF: <code>_diffn_refl_theta_max</code> | 26.38 |
| From the CIF: <code>_reflns_number_total</code> | 1780 |
| Count of symmetry unique reflns | 1784 |
| Completeness (<code>_total/calc</code>) | 99.78% |
| TEST3: Check Friedels for noncentro structure | |
| Estimate of Friedel pairs measured | 0 |
| Fraction of Friedel pairs measured | 0.000 |
| Are heavy atom types Z>Si present | no |

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|-------------------|---|-------|
| PLAT002_ALERT_2_G | Number of Distance or Angle Restraints on AtSite | 2 |
| PLAT005_ALERT_5_G | No <code>_iucr_refine_instructions_details</code> in CIF | ? |
| PLAT032_ALERT_4_G | Std. Uncertainty on Flack Parameter Value High . | 1.800 |
| PLAT720_ALERT_4_G | Number of Unusual/Non-Standard Labels | 1 |
| PLAT791_ALERT_4_G | Note: The Model has Chirality at C5 (Verify) | S |
| PLAT860_ALERT_3_G | Note: Number of Least-Squares Restraints | 1 |

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- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
 - 0 **ALERT level B** = A potentially serious problem, consider carefully
 - 6 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
 - 8 **ALERT level G** = General information/check it is not something unexpected
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- 1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 - 3 ALERT type 2 Indicator that the structure model may be wrong or deficient
 - 3 ALERT type 3 Indicator that the structure quality may be low
 - 6 ALERT type 4 Improvement, methodology, query or suggestion
 - 1 ALERT type 5 Informative message, check
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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 19/04/2012; check.def file version of 14/04/2012

