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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**

PLAT906_ALERT_3_C Large K Value in the Analysis of Variance .....	8.386	Check
PLAT906_ALERT_3_C Large K Value in the Analysis of Variance .....	2.122	Check
PLAT911_ALERT_3_C Missing FCF Refl Between Thmin & STh/L= 0.600	68	Report

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● **Alert level G**

PLAT019_ALERT_1_G _diffrn_measured_fraction_theta_full/*_max < 1.0	0.997	Report
PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large	0.14	Report
PLAT380_ALERT_4_G Incorrectly? Oriented X(sp2)-Methyl Moiety .....	C12A	Check
PLAT910_ALERT_3_G Missing # of FCF Reflection(s) Below Theta (Min).	2	Note
PLAT912_ALERT_4_G Missing # of FCF Reflections Above STh/L= 0.600	9	Note
PLAT930_ALERT_2_G FCF-based Twin Law ( 0 0 1) Est.d BASF	0.26	Check
PLAT931_ALERT_5_G CIFcalcFCF Twin Law ( 0 0 1) Est.d BASF	0.26	Check
PLAT933_ALERT_2_G Number of HKL-OMIT Records in Embedded .res File	52	Note
PLAT941_ALERT_3_G Average HKL Measurement Multiplicity .....	3.9	Low
PLAT967_ALERT_5_G Note: Two-Theta Cutoff Value in Embedded .res ..	56.0	Degree
PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density.	0	Info

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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  
3 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
11 **ALERT level G** = General information/check it is not something unexpected

1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
4 ALERT type 2 Indicator that the structure model may be wrong or deficient  
5 ALERT type 3 Indicator that the structure quality may be low  
2 ALERT type 4 Improvement, methodology, query or suggestion  
2 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* 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 19/02/2022; check.def file version of 19/02/2022**

