
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**

STRVA01_ALERT_4_C Flack test results are meaningless.
 From the CIF: `_refine_ls_abs_structure_Flack` 0.000
 From the CIF: `_refine_ls_abs_structure_Flack_su` 0.600

PLAT029_ALERT_3_C	<code>_diffn_measured_fraction_theta_full</code> value Low .	0.974	Why?
PLAT340_ALERT_3_C	Low Bond Precision on C-C Bonds	0.00644	Ang.
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance	2.037	Check
PLAT910_ALERT_3_C	Missing # of FCF Reflection(s) Below Theta (Min).		7 Note
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & Sth/L= 0.595		32 Report
PLAT913_ALERT_3_C	Missing # of Very Strong Reflections in FCF		17 Note
PLAT934_ALERT_3_C	Number of (Iobs-Icalc)/Sigma(W) > 10 Outliers ..		1 Check

● **Alert level G**

PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms		2 Report
PLAT012_ALERT_1_G	No <code>_shelx_res_checksum</code> Found in CIF		Please Check
PLAT032_ALERT_4_G	Std. Uncertainty on Flack Parameter Value High .	0.600	Report
PLAT398_ALERT_2_G	Deviating C-O-C Angle From 120 for O3 .	107.5	Degree
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels		37 Note
PLAT791_ALERT_4_G	Model has Chirality at C007 (Sohnke SpGr)		R Verify
PLAT791_ALERT_4_G	Model has Chirality at C009 (Sohnke SpGr)		R Verify
PLAT850_ALERT_4_G	Check Flack Parameter Exact Value 0.00 with s.u.	0.60	Check
PLAT883_ALERT_1_G	No Info/Value for <code>_atom_sites_solution_primary</code> .		Please Do !
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	93%	Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File		1 Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	4.6	Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.		0 Info

0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
8 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
13 **ALERT level G** = General information/check it is not something unexpected

2 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
9 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

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.

PLATON version of 19/02/2022; check.def file version of 19/02/2022

