
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

DIFMN02_ALERT_2_C The minimum difference density is $< -0.1 \times Z_{MAX} \times 0.75$
 _refine_diff_density_min given = -0.774
 Test value = -0.600

DIFMN03_ALERT_1_C The minimum difference density is $< -0.1 \times Z_{MAX} \times 0.75$
 The relevant atom site should be identified.

DIFMX02_ALERT_1_C The maximum difference density is $> 0.1 \times Z_{MAX} \times 0.75$
 The relevant atom site should be identified.

PLAT097_ALERT_2_C Large Reported Max. (Positive) Residual Density 0.79 eA-3

PLAT098_ALERT_2_C Large Reported Min. (Negative) Residual Density -0.77 eA-3

PLAT213_ALERT_2_C Atom C58 has ADP max/min Ratio 3.2 prolat

PLAT220_ALERT_2_C NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range 5.1 Ratio

PLAT222_ALERT_3_C NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range 4.9 Ratio

PLAT230_ALERT_2_C Hirshfeld Test Diff for C45 --C46 . 5.5 s.u.

PLAT230_ALERT_2_C Hirshfeld Test Diff for C53 --C59 . 7.0 s.u.

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of C53 Check

PLAT414_ALERT_2_C Short Intra D-H..H-X H7 ..H50C . 1.98 Ang.
 x,y,z = 1_555 Check

PLAT414_ALERT_2_C Short Intra D-H..H-X H8 ..H59C . 1.95 Ang.
 x,y,z = 1_555 Check

PLAT414_ALERT_2_C Short Intra D-H..H-X H10 ..H74C . 1.99 Ang.
 x,y,z = 1_555 Check

PLAT420_ALERT_2_C D-H Bond Without Acceptor N2 --H2 . Please Check

PLAT906_ALERT_3_C Large K Value in the Analysis of Variance 4.479 Check

PLAT911_ALERT_3_C Missing FCF Refl Between Thmin & STh/L= 0.600 14 Report

PLAT918_ALERT_3_C Reflection(s) with I(obs) much Smaller I(calc) . 1 Check

PLAT922_ALERT_1_C wR2 in the CIF and FCF Differ by 0.0021 Check



Alert level G

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 26 Note

PLAT003_ALERT_2_G Number of Uiso or Uij Restrained non-H Atoms ... 31 Report

PLAT007_ALERT_5_G Number of Unrefined Donor-H Atoms 16 Report

PLAT042_ALERT_1_G Calc. and Reported Moiety Formula Strings Differ Please Check

PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large 0.14 Report

PLAT153_ALERT_1_G The s.u.'s on the Cell Axes are Equal ..(Note) 0.0001 Ang.

PLAT154_ALERT_1_G The s.u.'s on the Cell Angles are Equal ..(Note) 0.001 Degree

PLAT172_ALERT_4_G The CIF-Embedded .res File Contains DFIX Records 9 Report

PLAT173_ALERT_4_G The CIF-Embedded .res File Contains DANG Records 8 Report

PLAT175_ALERT_4_G The CIF-Embedded .res File Contains SAME Records 1 Report

PLAT176_ALERT_4_G The CIF-Embedded .res File Contains SADI Records 5 Report

PLAT178_ALERT_4_G The CIF-Embedded .res File Contains SIMU Records 3 Report

PLAT186_ALERT_4_G The CIF-Embedded .res File Contains ISOR Records 1 Report

PLAT187_ALERT_4_G The CIF-Embedded .res File Contains RIGU Records 6 Report

PLAT301_ALERT_3_G Main Residue Disorder(Resd 1) 14% Note

PLAT302_ALERT_4_G Anion/Solvent/Minor-Residue Disorder (Resd 2) 100% Note

PLAT304_ALERT_4_G Non-Integer Number of Atoms in (Resd 1) 189.05 Check

PLAT304_ALERT_4_G Non-Integer Number of Atoms in (Resd 2) 0.95 Check

PLAT398_ALERT_2_G Deviating C-O-C Angle From 120 for O13A . 99.9 Degree

PLAT411_ALERT_2_G Short Inter H...H Contact H46B ..H48B . 1.81 Ang.
 x,y,z = 1_555 Check

PLAT411_ALERT_2_G Short Inter H...H Contact	H55A	..H47C	.	2.03 Ang.
	2-x,1-y,2-z	=	2_767	Check
PLAT411_ALERT_2_G Short Inter H...H Contact	H55A	..H47D	.	1.92 Ang.
	2-x,1-y,2-z	=	2_767	Check
PLAT411_ALERT_2_G Short Inter H...H Contact	H55B	..H47D	.	1.75 Ang.
	2-x,1-y,2-z	=	2_767	Check
PLAT411_ALERT_2_G Short Inter H...H Contact	H56	..H47D	.	2.06 Ang.
	2-x,1-y,2-z	=	2_767	Check
PLAT414_ALERT_2_G Short Intra D-H..H-X	H9	..H62B	.	2.00 Ang.
	x,y,z	=	1_555	Check
PLAT432_ALERT_2_G Short Inter X...Y Contact	O9	..C48B	.	2.34 Ang.
	x,y,z	=	1_555	Check
PLAT432_ALERT_2_G Short Inter X...Y Contact	C30	..C72A	.	3.00 Ang.
	1-x,2-y,1-z	=	2_676	Check
PLAT432_ALERT_2_G Short Inter X...Y Contact	C33	..C72A	.	3.12 Ang.
	1-x,2-y,1-z	=	2_676	Check
PLAT432_ALERT_2_G Short Inter X...Y Contact	C34	..C72A	.	2.81 Ang.
	1-x,2-y,1-z	=	2_676	Check
PLAT432_ALERT_2_G Short Inter X...Y Contact	C35	..C72A	.	2.77 Ang.
	1-x,2-y,1-z	=	2_676	Check
PLAT432_ALERT_2_G Short Inter X...Y Contact	C46	..C48B	.	2.74 Ang.
	x,y,z	=	1_555	Check
PLAT432_ALERT_2_G Short Inter X...Y Contact	C55	..C47A	.	2.78 Ang.
	2-x,1-y,2-z	=	2_767	Check
PLAT773_ALERT_2_G Check long C-C Bond in CIF: C48B	--C47A			1.77 Ang.
PLAT789_ALERT_4_G Atoms with Negative _atom_site_disorder_group	#			40 Check
PLAT790_ALERT_4_G Centre of Gravity not Within Unit Cell: Resd.	#			2 Note
C2 H3				
PLAT860_ALERT_3_G Number of Least-Squares Restraints			488 Note
PLAT912_ALERT_4_G Missing # of FCF Reflections Above STh/L=	0.600			117 Note
PLAT933_ALERT_2_G Number of HKL-OMIT Records in Embedded .res File				8 Note
PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density.				0 Info
PLAT992_ALERT_5_G Repd & Actual _reflns_number_gt Values Differ by				3 Check

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

6 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 32 ALERT type 2 Indicator that the structure model may be wrong or deficient
 6 ALERT type 3 Indicator that the structure quality may be low
 13 ALERT type 4 Improvement, methodology, query or suggestion
 2 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.

