
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

DIFMX02_ALERT_1_C The maximum difference density is > 0.1*ZMAX*0.75

The relevant atom site should be identified.

PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	2.23	Report
PLAT097_ALERT_2_C	Large Reported Max. (Positive) Residual Density	1.45	eA-3
PLAT230_ALERT_2_C	Hirshfeld Test Diff for O22 --C20 .	5.7	s.u.
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C27	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	078	Check
PLAT340_ALERT_3_C	Low Bond Precision on C-C Bonds	0.00444	Ang.
PLAT420_ALERT_2_C	D-H Bond Without Acceptor N8 --H8B .		Please Check
PLAT790_ALERT_4_C	Centre of Gravity not Within Unit Cell: Resd. #	1	Note
	C33 H41 N7 O6		
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance	4.566	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & Sth/L= 0.600	216	Report
PLAT913_ALERT_3_C	Missing # of Very Strong Reflections in FCF	44	Note
PLAT918_ALERT_3_C	Reflection(s) with I(obs) much Smaller I(calc) .	6	Check
PLAT975_ALERT_2_C	Check Calcd Resid. Dens. 1.06A From O21	1.27	eA-3



Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	22	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	13	Report
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms	2	Report
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large	0.11	Report
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	4	Report
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	11	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	2	Report
PLAT187_ALERT_4_G	The CIF-Embedded .res File Contains RIGU Records	4	Report
PLAT230_ALERT_2_G	Hirshfeld Test Diff for S74A --C73 .	6.9	s.u.
PLAT230_ALERT_2_G	Hirshfeld Test Diff for S74B --C73 .	10.0	s.u.
PLAT230_ALERT_2_G	Hirshfeld Test Diff for O78 --C77A .	14.5	s.u.
PLAT230_ALERT_2_G	Hirshfeld Test Diff for O78 --C77C .	10.0	s.u.
PLAT300_ALERT_4_G	Atom Site Occupancy of S74A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of S74B Constrained at	0.3	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of S74C Constrained at	0.2	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of O75A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of O75B Constrained at	0.3	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of O75C Constrained at	0.2	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C76A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C77A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C76B Constrained at	0.3	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C76C Constrained at	0.2	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C77B Constrained at	0.3	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C77C Constrained at	0.2	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H73A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H73B Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H76A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H76B Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H77A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H77B Constrained at	0.5	Check

PLAT300_ALERT_4_G	Atom Site Occupancy of H73C	Constrained at	0.3	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H73D	Constrained at	0.3	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H73E	Constrained at	0.2	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H73F	Constrained at	0.2	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H76C	Constrained at	0.3	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H76D	Constrained at	0.3	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H76E	Constrained at	0.2	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H76F	Constrained at	0.2	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H77C	Constrained at	0.3	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H77D	Constrained at	0.3	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H77E	Constrained at	0.2	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H77F	Constrained at	0.2	Check
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)		13%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 2)		11%	Note
PLAT410_ALERT_2_G	Short Intra H...H Contact H32A ..H31C .		2.09	Ang.
	x,y,z =		1_555	Check
PLAT410_ALERT_2_G	Short Intra H...H Contact H32B ..H31D .		2.12	Ang.
	x,y,z =		1_555	Check
PLAT410_ALERT_2_G	Short Intra H...H Contact H72A ..H73D .		2.11	Ang.
	x,y,z =		1_555	Check
PLAT410_ALERT_2_G	Short Intra H...H Contact H80 ..H77E .		1.95	Ang.
	x,y,z =		1_555	Check
PLAT411_ALERT_2_G	Short Inter H...H Contact H32B ..H29C .		2.06	Ang.
	-1-x,-1-y,-1-z =		2_444	Check
PLAT411_ALERT_2_G	Short Inter H...H Contact H34A ..H77D .		2.04	Ang.
	1+x,-1+y,z =		1_645	Check
PLAT411_ALERT_2_G	Short Inter H...H Contact H41 ..H77D .		1.85	Ang.
	1+x,-1+y,z =		1_645	Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact S74B ..C39		3.27	Ang.
	-2-x,-y,-2-z =		2_353	Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact C41 ..C77B		3.09	Ang.
	1+x,-1+y,z =		1_645	Check
PLAT605_ALERT_4_G	Largest Solvent Accessible VOID in the Structure		30	A**3
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels		3	Note
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #		2	Note
	C32 H34 N2 O3 S			
PLAT793_ALERT_4_G	Model has Chirality at C7 (Centro SPGR)		S	Verify
PLAT860_ALERT_3_G	Number of Least-Squares Restraints		306	Note
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed		!	Info
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).		4	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600		203	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity		3.2	Low
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		5	Check

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

2 **ALERT type 1** CIF construction/syntax error, inconsistent or missing data
 24 **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
 42 **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.

