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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

PLAT041_ALERT_1_C	Calc. and Reported SumFormula	Strings Differ	Please Check
PLAT230_ALERT_2_C	Hirshfeld Test Diff for C1_13	--C5_13 .	5.3 s.u.
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of		A14 Check
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor ....		2.4 Note
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor ....		2.1 Note
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor ....		2.1 Note
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor ....		2.4 Note
PLAT340_ALERT_3_C	Low Bond Precision on C-C Bonds .....		0.00487 Ang.
PLAT413_ALERT_2_C	Short Inter XH3 .. XHn Hn_13 ..Hn_13 .		2.09 Ang.
	2-x,1-y,-z =	2_765	Check
PLAT601_ALERT_2_C	Unit Cell Contains Solvent Accessible VOIDS of .		35 Ang**3
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance .....		2.604 Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.597	43 Report

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### Alert level G

FORMU01\_ALERT\_1\_G There is a discrepancy between the atom counts in the  
\_chemical\_formula\_sum and \_chemical\_formula\_moiety. This is  
usually due to the moiety formula being in the wrong format.  
Atom count from \_chemical\_formula\_sum: C52 H49 Al5 F38 O4  
Atom count from \_chemical\_formula\_moiety:

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	242	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	190	Report
PLAT042_ALERT_1_G	Calc. and Reported Moiety Formula Strings Differ	Please	Check
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	8.96	Why ?
PLAT174_ALERT_4_G	The CIF-Embedded .res File Contains FLAT Records	2	Report
PLAT175_ALERT_4_G	The CIF-Embedded .res File Contains SAME Records	3	Report
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	15	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	11	Report
PLAT187_ALERT_4_G	The CIF-Embedded .res File Contains RIGU Records	13	Report
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C2_2	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C3_2	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C4_2	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C2_3	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C3_3	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C4_3	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C2_4	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C2_6	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C3_6	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C4_6	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C2_8	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C3_8	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C4_8	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C2_24	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C3_24	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C4_24	Check
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 1 )	25%	Note
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 2 )	25%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 3 )	29%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 5 )	100%	Note

PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder	(Resd 6 )	100% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder	(Resd 7 )	100% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder	(Resd 8 )	100% Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in .....	(Resd 5 )	10.61 Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in .....	(Resd 6 )	8.75 Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in .....	(Resd 7 )	3.25 Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in .....	(Resd 8 )	1.39 Check
PLAT434_ALERT_2_G	Short Inter HL..HL Contact F7_4 ..F3_16		2.76 Ang.
	1-x,1-y,1-z =		2_666 Check
PLAT434_ALERT_2_G	Short Inter HL..HL Contact F9_6 ..F1_20		2.82 Ang.
	x,1+y,z =		1_565 Check
PLAT434_ALERT_2_G	Short Inter HL..HL Contact F5_24 ..F5_24		2.68 Ang.
	-x,2-y,-z =		2_575 Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels .....		365 Note
PLAT722_ALERT_1_G	Angle Calc 121.00, Rep 119.90 Dev...		1.10 Degree
	C2_21 -C3_21 -H_21 1_555 1_555 1_555 # 712		Check
PLAT811_ALERT_5_G	No ADDSYM Analysis: Too Many Excluded Atoms ....		! Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints .....		22815 Note
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still		47% Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File		2 Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.		3 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  
 12 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
 47 **ALERT level G** = General information/check it is not something unexpected

4 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  
 7 ALERT type 3 Indicator that the structure quality may be low  
 15 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* 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.

