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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**

PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N9	--H9A	.	Please Check
PLAT420_ALERT_2_C	D-H Bond Without Acceptor	N9	--H9B	.	Please Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.600		12	Report
PLAT977_ALERT_2_C	Check Negative Difference Density on H5A			-0.39	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H9B			-0.38	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H10B			-0.51	eA-3

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● **Alert level G**

PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms .....			10	Report
PLAT128_ALERT_4_G	Alternate Setting for Input Space Group	Pc			Pn Note
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records			1	Report
PLAT480_ALERT_4_G	Long H...A H-Bond Reported H5A	..BR1	.	3.05	Ang.
PLAT480_ALERT_4_G	Long H...A H-Bond Reported H9A	..BR3	.	3.03	Ang.
PLAT480_ALERT_4_G	Long H...A H-Bond Reported H9B	..BR2	.	3.02	Ang.
PLAT480_ALERT_4_G	Long H...A H-Bond Reported H9B	..BR4	.	2.94	Ang.
PLAT480_ALERT_4_G	Long H...A H-Bond Reported H6	..BR3	.	3.08	Ang.
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd.	#		2	Note
	C2 H6 N5				
PLAT794_ALERT_5_G	Tentative Bond Valency for Zn1	(II)	.	2.03	Info
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).			1	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L=	0.600		6	Note
PLAT915_ALERT_3_G	No Flack x Check Done: Low Friedel Pair Coverage			73	%
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity .....			2.6	Low

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

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
5 ALERT type 2 Indicator that the structure model may be wrong or deficient  
4 ALERT type 3 Indicator that the structure quality may be low  
9 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 06/07/2023; check.def file version of 30/06/2023**

