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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 A**

ATOM007\_ALERT\_1\_A \_atom\_site\_aniso\_label is missing  
Unique label identifying the atom site.

**Author Response: All atoms were refined with one isotropic displacement parameter.**

PLAT183\_ALERT\_1\_A Missing \_cell\_measurement\_reflms\_used Value .... Please Do !

**Author Response: Cell parameters were determined by the software PETS. No output information for this parameter was given.**

PLAT184\_ALERT\_1\_A Missing \_cell\_measurement\_theta\_min Value ..... Please Do !

**Author Response: Cell parameters were determined by the software PETS. No output information for this parameter was given.**

PLAT185\_ALERT\_1\_A Missing \_cell\_measurement\_theta\_max Value ..... Please Do !

**Author Response: Cell parameters were determined by the software PETS. No output information for this parameter was given.**

PLAT881\_ALERT\_1\_A No Datum for \_diffrn\_reflms\_av\_R\_equivalents ... Please Do !

**Author Response: Data were refined dynamically considering separately each electron diffraction pattern.**

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 **Alert level C**

GOODF01\_ALERT\_2\_C The least squares goodness of fit parameter lies  
outside the range 0.80 <> 2.00  
Goodness of fit given = 2.540

PLAT041_ALERT_1_C Calc. and Reported SumFormula	Strings Differ	Please Check
PLAT077_ALERT_4_C Unitcell Contains Non-integer Number of Atoms ..		Please Check
PLAT082_ALERT_2_C High R1 Value .....	0.14	Report
PLAT127_ALERT_1_C Implicit Hall Symbol Inconsistent with Explicit	-P 6;-2 c	
PLAT148_ALERT_3_C s.u. on the a - Axis is (Too) Large ....	0.200 Ang.	
PLAT148_ALERT_3_C s.u. on the c - Axis is (Too) Large ....	0.300 Ang.	
PLAT202_ALERT_3_C Isotropic non-H Atoms in Anion/Solvent .....	2	Check
Ca1 K1		
PLAT799_ALERT_4_C Numeric Label on Displacement Par. Record .....		? Check

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● **Alert level G**

ABSMU01\_ALERT\_1\_G Calculation of `_exptl_absorpt_correction_mu`  
not performed for this radiation type.

PLAT005_ALERT_5_G	No Embedded Refinement Details Found in the CIF	Please Do !
PLAT045_ALERT_1_G	Calculated and Reported Z Differ by a Factor ...	0.50 Check
PLAT152_ALERT_1_G	The Supplied and Calc. Volume s.u. Differ by ...	10 Units
PLAT199_ALERT_1_G	Reported <code>_cell_measurement_temperature</code> ..... (K)	293 Check
PLAT200_ALERT_1_G	Reported <code>_diffn_ambient_temperature</code> ..... (K)	293 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Si1 Constrained at	0.55 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Si2 Constrained at	0.5499 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Al1 Constrained at	0.45 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Al2 Constrained at	0.45 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Ca1 Constrained at	0.75 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of K1 Constrained at	0.5796 Check
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 1 )	40% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 2 )	100% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 3 )	100% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 4 )	100% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 5 )	100% Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in ..... (Resd 3 )	0.01 Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in ..... (Resd 4 )	0.19 Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in ..... (Resd 5 )	0.05 Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact Si1 ..Si1	3.02 Ang.
	$y, -x+y, z =$	5_555 Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact Si1 ..Si1	3.02 Ang.
	$x-y, x, z =$	6_555 Check
PLAT802_ALERT_4_G	CIF Input Record(s) with more than 80 Characters	1 Info
PLAT808_ALERT_5_G	No Parseable SHELXL Style Weighting Scheme Found	Please Check
PLAT811_ALERT_5_G	No ADDSYM Analysis: Too Many Excluded Atoms ....	! Info
PLAT883_ALERT_1_G	No Info/Value for <code>_atom_sites_solution_primary</code> .	Please Do !
PLAT966_ALERT_5_G	Note: Non-Standard (i.e. 2.0) OMIT Threshold of	3.0 Sig(I)
PLAT970_ALERT_5_G	Refinement Requires Electron Scattering Factors.	Please Check

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

13 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
4 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  
16 ALERT type 4 Improvement, methodology, query or suggestion  
5 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.

Datablock I - ellipsoid plot

