

# checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

THIS REPORT IS FOR GUIDANCE ONLY. IF USED AS PART OF A REVIEW PROCEDURE FOR PUBLICATION, IT SHOULD NOT REPLACE THE EXPERTISE OF AN EXPERIENCED CRYSTALLOGRAPHIC REFEREE.

No syntax errors found.      CIF dictionary      Interpreting this report

## Datablock: compound1

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Bond precision:	C-C = 0.0038 A	Wavelength=0.71073
Cell:	a=10.4542(5)      b=12.3869(6)      c=10.6140(5)	
	alpha=90      beta=117.912(1)      gamma=90	
Temperature:	100 K	
	Calculated	Reported
Volume	1214.57(10)	1214.57(10)
Space group	P 21	P 1 21 1
Hall group	P 2yb	P 2yb
Moiety formula	C14 H32 O6 Si2, F6 P, H4 N	C14 H32 O6 Si2, F6 P, H4 N
Sum formula	C14 H36 F6 N O6 P Si2	C14 H36 F6 N O6 P Si2
Mr	515.59	515.59
Dx,g cm-3	1.410	1.410
Z	2	2
Mu (mm-1)	0.286	0.286
F000	544.0	544.0
F000'	544.91	
h,k,lmax	12,14,12	12,14,12
Nref	4431[ 2327]	4419
Tmin,Tmax	0.870,0.906	0.721,0.745
Tmin'	0.870	

Correction method= # Reported T Limits: Tmin=0.721 Tmax=0.745  
AbsCorr = MULTI-SCAN

Data completeness= 1.90/1.00      Theta(max)= 25.284

R(reflections)= 0.0203( 4365)      wR2(reflections)= 0.0529( 4419)

S = 1.076      Npar= 310

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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

PLAT244\_ALERT\_4\_C Low 'Solvent' Ueq as Compared to Neighbors of P1 Check

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### ● Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	5	Note
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	1	Report
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 1)..	9%	Note
PLAT395_ALERT_2_G	Deviating X-O-Y Angle from 120 Deg for O1	122.0	Degree
PLAT395_ALERT_2_G	Deviating X-O-Y Angle from 120 Deg for O2	120.9	Degree
PLAT398_ALERT_2_G	Deviating C-O-C Angle from 120 Deg for O3	107.7	Degree
PLAT398_ALERT_2_G	Deviating C-O-C Angle from 120 Deg for O3A	108.3	Degree
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels .....	10	Note
PLAT860_ALERT_3_G	Number of Least-Squares Restraints .....	5	Note

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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  
1 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
9 **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  
2 ALERT type 3 Indicator that the structure quality may be low  
3 ALERT type 4 Improvement, methodology, query or suggestion  
0 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.

