

# checkCIF/PLATON report

No syntax errors found.      CIF dictionary      Interpreting this report

## Datablock: 3214

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Bond precision:    C-C = 0.0042 Å

Wavelength=0.71073

Cell:                a=6.5034(3)                b=14.1336(6)                c=15.1720(7)  
                      alpha=91.897(4)            beta=96.259(4)            gamma=93.728(4)  
Temperature:        173 K

	Calculated	Reported
Volume	1382.17(11)	1382.17(11)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C28 H39 Fe2 N O2 Si2	C28 H39 Fe2 N O2 Si2
Sum formula	C28 H39 Fe2 N O2 Si2	C28 H39 Fe2 N O2 Si2
Mr	589.48	589.48
Dx,g cm-3	1.416	1.416
Z	2	2
Mu (mm-1)	1.162	1.162
F000	620.0	620.0
F000'	621.85	
h,k,lmax	8,17,18	8,17,18
Nref	5410	5406
Tmin,Tmax	0.904,0.951	0.929,1.000
Tmin'	0.894	

Correction method= # Reported T Limits: Tmin=0.929 Tmax=1.000  
AbsCorr = MULTI-SCAN

Data completeness= 0.999

Theta(max)= 25.998

R(reflections)= 0.0343( 4445)

wR2(reflections)= 0.0858( 5406)

S = 1.027

Npar= 323

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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

PLAT213_ALERT_2_C Atom C21	has ADP max/min Ratio .....	3.2 prolat
PLAT213_ALERT_2_C Atom C26	has ADP max/min Ratio .....	3.4 prolat
PLAT220_ALERT_2_C Large Non-Solvent C	Ueq(max)/Ueq(min) Range	4.2 Ratio
PLAT241_ALERT_2_C High	Ueq as Compared to Neighbors for .....	C21 Check
PLAT241_ALERT_2_C High	Ueq as Compared to Neighbors for .....	C22 Check

PLAT242\_ALERT\_2\_C Low Ueq as Compared to Neighbors for ..... Fe2 Check  
PLAT250\_ALERT\_2\_C Large U3/U1 Ratio for Average U(i,j) Tensor .... 2.5 Note



#### Alert level G

PLAT154\_ALERT\_1\_G The su's on the Cell Angles are Equal ..... 0.00400 Degree

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

1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
7 ALERT type 2 Indicator that the structure model may be wrong or deficient  
0 ALERT type 3 Indicator that the structure quality may be low  
0 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*, 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.

