

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) mo_b0613_cc

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: mo_b0613_cc

Bond precision: C-C = 0.0031 Å Wavelength=0.71073

Cell: a=24.4022(13) b=14.0997(7) c=10.2884(6)
 alpha=90 beta=90.067(2) gamma=90

Temperature: 100 K

	Calculated	Reported
Volume	3539.9(3)	3539.9(3)
Space group	C c	C 1 c 1
Hall group	C -2yc	C -2yc
Moiety formula	C38 H44 Fe2 N2 O3 Si2	C38 H44 Fe2 N2 O3 Si2
Sum formula	C38 H44 Fe2 N2 O3 Si2	C38 H44 Fe2 N2 O3 Si2
Mr	744.63	744.63
Dx,g cm-3	1.397	1.397
Z	4	4
Mu (mm-1)	0.927	0.927
F000	1560.0	1560.0
F000'	1563.84	
h,k,lmax	35,20,14	35,20,14
Nref	11294[5652]	11142
Tmin,Tmax	0.624,0.745	0.682,1.000
Tmin'	0.611	

Correction method= # Reported T Limits: Tmin=0.682 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 1.97/0.99 Theta(max)= 31.000

R(reflections)= 0.0201(11006) wR2(reflections)= 0.0474(11142)

S = 1.032 Npar= 432

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.



Alert level C

PLAT220_ALERT_2_C	Non-Solvent Resd 1	C	Ueq(max)/Ueq(min) Range	4.3	Ratio
PLAT910_ALERT_3_C	Missing # of FCF Reflection(s)		Below Theta(Min)	5	Note



Alert level G

PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms		2	Report
PLAT792_ALERT_1_G	The Model has Chirality at Si1	(Polar SPGR)		S	Verify
PLAT792_ALERT_1_G	The Model has Chirality at Si2	(Polar SPGR)		S	Verify
PLAT850_ALERT_4_G	Check Flack Parameter Exact Value	0.00 and s.u.		0.00	Check
PLAT870_ALERT_4_G	ALERTS Related to Twinning Effects Suppressed	..		!	Info
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L=	0.600		5	Note
PLAT931_ALERT_5_G	Found Twin Law (1 0 0)[] Estimated BASF	0.15	Check
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File	...		4	Note

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

2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 2 ALERT type 2 Indicator that the structure model may be wrong or deficient
 1 ALERT type 3 Indicator that the structure quality may be low
 3 ALERT type 4 Improvement, methodology, query or suggestion
 2 ALERT type 5 Informative message, check

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.

PLATON version of 24/11/2016; check.def file version of 23/11/2016

Datablock mo_b0613_cc - ellipsoid plot

