

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: 15-H-NAMED_publ

Bond precision:	C-C = 0.0045 A	Wavelength=1.54180	
Cell:	a=19.8090(7)	b=6.56757(17)	c=12.6447(3)
	alpha=90	beta=91.396(2)	gamma=90
Temperature:	293 K		
	Calculated	Reported	
Volume	1644.55(8)	1644.54(9)	
Space group	P 21/c	P 1 21/c 1	
Hall group	-P 2ybc	?	
Moiety formula	C18 H22 O2 Si	?	
Sum formula	C18 H22 O2 Si	C18 H22 O2 Si	
Mr	298.45	298.46	
Dx,g cm-3	1.205	0.000	
Z	4	4	
Mu (mm-1)	1.267	0.000	
F000	640.0	0.0	
F000'	642.64		
h,k,lmax	19,6,12	20,6,12	
Nref	1691	1686	
Tmin,Tmax		1.000,1.000	
Tmin'			

Correction method= # Reported T Limits: Tmin=1.000 Tmax=1.000
AbsCorr = ?

Data completeness= 0.997 Theta(max)= 50.003

R(reflections)= wR2(reflections)=

S = Npar=

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**

PLAT340_ALERT_3_C Low Bond Precision on C-C Bonds 0.00447 Ang.
PLAT731_ALERT_1_C Bond Calc 1.351(7), Rep 1.351(2) 3 su-Rat
C9 -O1 1.555 1.555 # 22 Check
PLAT731_ALERT_1_C Bond Calc 1.214(11), Rep 1.213(2) 5 su-Rat
C9 -O2 1.555 1.555 # 23 Check
PLAT732_ALERT_1_C Angle Calc 106.1(3), Rep 106.11(14) 2.14 s.u.-R
C1 -C2 -C3 1.555 1.555 1.555 # 7 Check
PLAT732_ALERT_1_C Angle Calc 109.4(3), Rep 109.45(14) 2.14 s.u.-R
C2 -C3 -C4 1.555 1.555 1.555 # 10 Check
PLAT732_ALERT_1_C Angle Calc 111.5(4), Rep 111.47(19) 2.11 s.u.-R
C8 -C9 -O1 1.555 1.555 1.555 # 41 Check
PLAT732_ALERT_1_C Angle Calc 127.0(6), Rep 127.0(3) 2.14 s.u.-R
C8 -C9 -O2 1.555 1.555 1.555 # 42 Check
PLAT732_ALERT_1_C Angle Calc 120.0(8), Rep 120.0(3) 2.86 s.u.-R
O1 -C9 -O2 1.555 1.555 1.555 # 43 Check

● **Alert level G**

PLAT793_ALERT_4_G The Model has Chirality at C1 (Centro SPGR) R Verify
PLAT793_ALERT_4_G The Model has Chirality at C4 (Centro SPGR) R Verify
PLAT793_ALERT_4_G The Model has Chirality at C5 (Centro SPGR) S Verify
PLAT793_ALERT_4_G The Model has Chirality at C7 (Centro SPGR) R Verify
PLAT860_ALERT_3_G Number of Least-Squares Restraints 97 Note
PLAT981_ALERT_1_G No non-zero f" Anomalous Scattering Values Found Please Check
PLAT986_ALERT_1_G No non-zero f' Anomalous Scattering Values Found Please Check

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
8 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
7 **ALERT level G** = General information/check it is not something unexpected
- 9 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
0 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
4 ALERT type 4 Improvement, methodology, query or suggestion
0 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

