## checkCIF/PLATON report

Structure factors have been supplied for datablock(s) I

## 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: I**

Bond precision:	C-C = 0.0030 A		Wavelength=0.71073		
Cell:	a=10.4940(5) alpha=90				
Temperature:	100 K				
	Calculated		Reported		
Volume	2129.61(17)		2129.61(1	7)	
Space group	P 21/n	P 21/n			
Hall group	-P 2yn	-P 2yn -P 2yn			
Moiety formula	C44 H58 N4 Si2 Y2 C44 H58 N4 Si2 Y2		4 Si2 Y2		
Sum formula	C44 H58 N4 Si2 Y2		C44 H58 N4 Si2 Y2		
Mr	876.94		876.94		
Dx,g cm-3	1.368		1.368		
Z	2		2		
Mu (mm-1)	2.802		2.802		
F000	912.0		912.0		
F000′	901.37				
h,k,lmax	14,17,22		14,17,22		
Nref	5975		5978		
Tmin,Tmax	0.555,0.703 0.592,0.746		46		
Tmin'	0.514				
Correction method= # Reported T Limits: Tmin=0.592 Tmax=0.746 AbsCorr = MULTI-SCAN					
Data completeness= 1.001 Theta(max)= 29.570				0	
R(reflections) = 0.0348( 4877) wR2(reflections) = 0.0692( 5978)					
S = 1.041 Npar= 249					

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 PLAT906_ALERT_3_C Large K value in the Analysis of Variance	2.721 Check			
Alert level G				
PLAT164_ALERT_4_G Nr. of Refined C-H H-Atoms in Heavy-Atom Struct.	2 Note			
PLAT343_ALERT_2_G Unusual Angle Range in Main Residue for	C22 Check			
PLAT779_ALERT_4_G Suspect or Irrelevant (Bond) Angle in CIF #	73 Check			
N1 -SI1 -Y1 1.555 1.555 1.555	42.82 Deg.			
<pre>PLAT910_ALERT_3_G Missing # of FCF Reflection(s) Below Theta(Min).</pre>	1 Note			
PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density.	13 Info			
0 ALERT level A = Most likely a serious problem - resolve or explain				
0 <b>ALERT level B</b> = A potentially serious problem, consider carefully				

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5 ALERT level G = General information/check it is not something unexpected
0 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
2 ALERT type 3 Indicator that the structure quality may be low
2 ALERT type 4 Improvement, methodology, query or suggestion
0 ALERT type 5 Informative message, check
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1 ALERT level C = Check. Ensure it is not caused by an omission or oversight

## **Publication of your CIF**

You should 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 nature of your study may justify the reported deviations from journal submission requirements and the more serious of these should 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.

If you wish to submit your CIF for publication in Acta Crystallographica Section C or E, you should upload your CIF via the web. If you wish to submit your CIF for publication in IUCrData you should upload your CIF via the web. If your CIF is to form part of a submission to another IUCr journal, you will be asked, either during electronic submission or by the Co-editor handling your paper, to upload your CIF via our web site.

PLATON version of 13/08/2017; check.def file version of 27/07/2017

