

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) fs012_0m_a

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: fs012_0m_a

Bond precision: O- B = 0.0020 A Wavelength=0.71073

Cell: a=6.1463(2) b=6.4053(2) c=7.4642(2)
 alpha=102.592(1) beta=97.109(1) gamma=102.457(1)

Temperature: 277 K

	Calculated	Reported
Volume	275.504(15)	275.504(15)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	B4 O9 Y2	?
Sum formula	B4 O9 Y2	B4 O9 Y2
Mr	365.06	365.06
Dx,g cm-3	4.401	4.401
Z	2	2
Mu (mm-1)	20.993	20.993
F000	340.0	340.0
F000'	329.21	
h,k,lmax	11,11,13	11,11,13
Nref	3688	3675
Tmin,Tmax	0.380,0.657	0.541,0.748
Tmin'	0.337	

Correction method= # Reported T Limits: Tmin=0.541 Tmax=0.748
AbsCorr = MULTI-SCAN

Data completeness= 0.996 Theta(max)= 41.289

R(reflections)= 0.0210(3198) wR2(reflections)= 0.0431(3675)

S = 1.058 Npar= 137

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.

PLAT975 ALERT 2 C Check Calcd Resid. Dens. 0.74A From 0002 0.50 eA-3

PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	3	Info
PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)	0.001	Degree
PLAT432_ALERT_2_G	Short Inter X...Y Contact O008 ..B004	2.53	Ang.
	1-x,2-y,2-z =	2_677	Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact B004 ..B004	3.04	Ang.
	-x,2-y,2-z =	2_577	Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	15	Note
PLAT794_ALERT_5_G	Tentative Bond Valency for Y001 (III)	2.91	Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Y002 (III)	3.19	Info
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	14	Note

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
8 **ALERT level G** = General information/check it is not something unexpected

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1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
3 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
2 ALERT type 4 Improvement, methodology, query or suggestion
3 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.

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.

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

Datablock fs012_0m_a - ellipsoid plot

