

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) Compound_5_mo_seo3_5t

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: Compound_5_mo_seo3_5t

Bond precision: O- N = 0.0067 A Wavelength=0.71073

Cell: a=6.6866(5) b=7.9932(4) c=12.6165(10)
 alpha=90 beta=99.603(7) gamma=90
Temperature: 293 K

	Calculated	Reported
Volume	664.87(8)	664.87(8)
Space group	P 21/n	P 1 21/n 1
Hall group	-P 2yn	-P 2yn
Moiety formula	N4 O14 U, 2(Cs)	Cs2 N4 O14 U
Sum formula	Cs2 N4 O14 U	Cs2 N4 O14 U
Mr	783.89	783.89
Dx,g cm-3	3.916	3.916
Z	2	2
Mu (mm-1)	17.686	17.686
F000	684.0	684.0
F000'	663.94	
h,k,lmax	8,10,16	8,10,16
Nref	1534	1529
Tmin,Tmax	0.005,0.029	0.241,1.000
Tmin'	0.002	

Correction method= # Reported T Limits: Tmin=0.241 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 0.997 Theta(max)= 27.499

R(reflections)= 0.0288(1238) wR2(reflections)= 0.0774(1529)

S = 1.047 Npar= 97

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**

PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	02	Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	N1	Check
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance	2.006	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.600	2	Report
PLAT971_ALERT_2_C	Check Calcd Resid. Dens.	1.00A From U1	1.94	eA-3
PLAT975_ALERT_2_C	Check Calcd Resid. Dens.	0.93A From O6	0.67	eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens.	1.02A From O6	-0.56	eA-3

● **Alert level G**

PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ	Please Check
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature (K)	293 Check
PLAT200_ALERT_1_G	Reported _diffrn_ambient_temperature (K)	293 Check
PLAT794_ALERT_5_G	Tentative Bond Valency for U1 (VI)	6.17 Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary	Please Do !
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L=	0.600 3 Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File	... 3 Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	3.9 Low
PLAT960_ALERT_3_G	Number of Intensities with I < - 2*sig(I)	... 1 Check

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

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

