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# 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.

## **Datablock: PbWCl6**

S =

Bond precision: W-Cl = 0.0067 A Wavelength=1.54060 Cell: a=8.67052(9)b=8.67052(9)c=10.84989(17)alpha=90 beta=90 gamma=90 Temperature: 298 K Calculated Reported Volume 815.67(2) 815.673(17) Space group P 42/n P 42/n Hall group -P 4bc -P 4bc Moiety formula Cl12 Pb W2 C16 Pb0.5 W1 Sum formula Cl12 Pb W2 Cl6 Pb0.5 W1 Mr 1000.28 500.17 4.073 0.000 Dx,q cm-3 2 Mu (mm-1)61.377 63.084 F000 868.0 0.0 F000' 849.00 h,k,lmax 9,9,11 517 Nref Tmin, Tmax Tmin' Correction method= Not given Data completeness= 0.000 Theta(max)= R(reflections)= wR2(reflections)=

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.

Npar=

PLAT041\_ALERT\_1\_C Calc. and Reported SumFormula Strings Differ

#### Alert level G

RADNT01\_ALERT\_1\_G Extra text has been found in the \_diffrn\_radiation\_type field. Radiation given as Cu Kalphal Radiation identified as Cu K\a

PLAT004\_ALERT\_5\_G Polymeric Structure Found with Maximum Dimension 3 Info PLAT042\_ALERT\_1\_G Calc. and Reported MoietyFormula Strings Differ Please Check PLAT045\_ALERT\_1\_G Calculated and Reported Z Differ by a Factor ... 0.50 Check PLAT092\_ALERT\_4\_G Check: Wavelength given is not Cu,Ga,Mo,Ag,In Ka 1.54060 Ang. PLAT152\_ALERT\_1\_G The Supplied and Calc. Volume s.u. Differ by ... 3 Units PLAT794\_ALERT\_5\_G Tentative Bond Valency for Pb1 (II) ..... 2.40 Note PLAT794\_ALERT\_5\_G Tentative Bond Valency for W1 (VI) 5.58 Note

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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
5 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
O ALERT type 3 Indicator that the structure quality may be low
1 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.

### 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 26/02/2017; check.def file version of 21/02/2017

Datablock PbWCl6 - ellipsoid plot

