checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 14213

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: 14213

Bond precision: C-C = 0.0060 Å
Wavelength=0.71073 Å

Cell:
\[a=19.978(2)\] \[b=29.280(4)\] \[c=18.961(2)\]
\[\alpha=90\] \[\beta=118.716(2)\] \[\gamma=90\]

Temperature: 100 K

Volume
Calculated: 9727(2) Reported: 9727.2(19)

Space group: C c C c
Hall group: C -2yc C -2yc

Moiety formula:
C20 H48 Ag4 B48 Cl44 N8

Sum formula:
C20 H48 Ag4 B48 Cl44 N8

Mr: 2910.83

Dx,g cm\(^{-3}\): 1.988

Z: 4

Mu (mm\(^{-1}\)): 2.040

F000: 5600.0

F000': 5612.22

h,k,lmax: 29,42,27

Nref: 31815[ 15918]

Tmin,Tmax: 0.561,0.638

Tmin': 0.515

Correction method= MULTI-SCAN

Data completeness= 1.86/0.93
Theta(max)= 31.299

R(reflections)= 0.0258( 27455)
wr2(reflections)= 0.0634( 29575)

S = 0.984

Npar= 1118

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 B

**ADDSYM Detects Additional (Pseudo) Symm. Elem...**

Alert level C

**Flack test results are ambiguous.**

From the CIF: _refine_ls_abs_structure_Flack 0.483

From the CIF: _refine_ls_abs_structure_Flack_su 0.014

**Atom C4.4**

has ADP max/min Ratio..... 3.8 prolat

**Large Non-Solvent C**

Ueq(max)/Ueq(min) Range 3.2 Ratio

Alert level G

**Number of Uiso or Uij Restrained non-H Atoms**

1 Report

**Polymeric Structure Found with Dimension**

1 Info

**SHELXL Second Parameter in WGHT Unusually Large.**

7.00 Why?

**Hirshfeld Test Diff (M-X)**

Ag1_1 -- C11_1 .. 6.3 su

**Short Inter X...Y Contact**

C19_1 .. C1_4 .. 3.24 Ang.

**Short Inter X...Y Contact**

C19_3 .. C1_1 .. 3.14 Ang.

**Missing # of FCF Reflections Above STh/L= 0.600**

749 Note

0 ALERT level A = Most likely a serious problem - resolve or explain

1 ALERT level B = A potentially serious problem, consider carefully

3 ALERT level C = Check. Ensure it is not caused by an omission or oversight

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

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data

29 ALERT type 2 Indicator that the structure model may be wrong or deficient

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

3 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, 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.

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**PLATON version of 20/08/2014; check.def file version of 18/08/2014**