## checkCIF/PLATON report

Structure factors have been supplied for datablock(s) cu\_BruecknerJK\_153F40\_0m

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: cu\_BruecknerJK\_153F40\_0m

```
Bond precision: C-C = 0.0031 A
                                        Wavelength=1.54178
Cell:
                 a=19.678(3)
                                 b=37.0229(9)
                                                  c=4.7720(4)
                 alpha=90
                                 beta=90
                                                   gamma=90
Temperature:
                 102 K
               Calculated
                                         Reported
Volume
               3476.6(6)
                                         3476.6(7)
              P 21 21 2
                                         P 21 21 2
Space group
              P 2 2ab
Hall group
                                         P 2 2ab
Moiety formula 2(C38 H38 O12), C H4 O
                                         C38.50 H40 O12.50
Sum formula
             C77 H80 O25
Mr
               1405.41
                                         702.70
               1.343
                                         1.343
Dx,g cm-3
               2
Ζ
Mu (mm-1)
               0.838
                                         0.838
F000
               1484.0
                                         1484.0
F000′
               1489.09
h,k,lmax
               25,47,6
                                         24,47,5
               7449[ 4339]
Nref
                                         7338
               0.904,0.967
                                         0.770,0.929
Tmin,Tmax
Tmin'
               0.832
Correction method= # Reported T Limits: Tmin=0.770 Tmax=0.929
AbsCorr = MULTI-SCAN
Data completeness= 1.69/0.99
                                Theta(max) = 78.476
R(reflections) = 0.0364(7290) wR2(reflections) = 0.0919(7338)
S = 1.198
                         Npar= 479
```

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.

#### Validation response form

Please find below a validation response form (VRF) that can be filled in and pasted into your CIF.

```
# start Validation Reply Form
_vrf_PLAT035_cu_BruecknerJK_153F40_0m
;
PROBLEM: _chemical_absolute_configuration Info Not Given Please Do !
RESPONSE: ...
;
# end Validation Reply Form
```

16 ALERT type 4 Improvement, methodology, query or suggestion

2 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.

PLATON version of 16/07/2020; check.def file version of 12/07/2020

