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: I

```
Bond precision: C-C = 0.0134 A
                                        Wavelength=0.71073
Cell:
              a=12.2374(11) b=13.1250(12)
                                               c=14.1344(14)
              alpha=65.100(1) beta=74.157(2)
                                                 qamma = 76.879(2)
Temperature:
              293 K
               Calculated
                                         Reported
Volume
               1964.6(3)
                                         1964.6(3)
                                         P - 1
Space group
              P -1
Hall group
               -P 1
               C78 H70 N4 O12 Sm2 [+
                                         ?
Moiety formula
               solvent]
               C78 H70 N4 O12 Sm2 [+
Sum formula
                                         C78 H70 N4 O12 Sm2
               solvent]
               1556.10
Mr
                                         1556.08
               1.315
Dx,q cm-3
                                         1.315
                                         1
Mu (mm-1)
               1.538
                                         1.538
F000
               786.0
                                         786.0
F000′
               785.97
h,k,lmax
               14,15,16
                                         14,15,16
               6936
                                         6811
Nref
Tmin,Tmax
               0.831,0.898
                                         0.615,0.900
Tmin'
               0.584
Correction method= # Reported T Limits: Tmin=0.615 Tmax=0.900
AbsCorr = MULTI-SCAN
Data completeness= 0.982
                                 Theta(max) = 25.020
R(reflections) = 0.0529( 5234) wR2(reflections) = 0.1189( 6811)
S = 1.054
                          Npar= 439
```

Click on the hyperlinks for more details of the test.

```
🍭 Alert level B
PLAT990_ALERT_1_B Deprecated .res/.hkl Input Style SQUEEZE Job ...
                                                                              ! Note
Alert level C
PLAT048_ALERT_1_C MoietyFormula Not Given (or Incomplete) ....... Please Check PLAT125_ALERT_4_C No '_symmetry_space_group_name_Hall' Given ..... Please Do!
PLAT199_ALERT_1_C Reported _cell_measurement_temperature .... (K)
                                                                          293 Check
PLAT200_ALERT_1_C Reported __diffrn_ambient_temperature ..... (K)
                                                                           293 Check
PLAT220_ALERT_2_C NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range
                                                                           3.2 Ratio
PLAT234_ALERT_4_C Large Hirshfeld Difference C7 -- C9 .
                                                                          0.16 Ang.
                                                                          0.16 Ang.
PLAT234_ALERT_4_C Large Hirshfeld Difference C12
                                                      --C17
PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of
                                                                            01 Check
                                                                          C14 Check
PLAT241_ALERT_2_C High

'MainMol' Ueq as Compared to Neighbors of
PLAT242_ALERT_2_C Low

'MainMol' Ueq as Compared to Neighbors of
PLAT242_ALERT_2_C Low

'MainMol' Ueq as Compared to Neighbors of
                                                                           C12 Check
                                                                            C21 Check
PLAT342_ALERT_3_C Low Bond Precision on C-C Bonds .....
                                                                       0.01344 Ang.
1.53 Ang.
PLAT369_ALERT_2_C Long C(sp2)-C(sp2) Bond C19
                                                                           1.53 Ang.
Alert level G
PLAT005_ALERT_5_G No Embedded Refinement Details Found in the CIF Please Do!
                                                                     mixed Check
1.43 Ang.
PLAT093_ALERT_1_G No s.u.'s on H-positions, Refinement Reported as
PLAT333_ALERT_2_G Large Aver C6-Ring C-C Dist C31 -C38 .
PLAT605_ALERT_4_G Largest Solvent Accessible VOID in the Structure
                                                                           276 A**3
PLAT774_ALERT_1_G Check X-Y Bond in CIF: Sml --Sml .. PLAT794_ALERT_5_G Tentative Bond Valency for Sml (III) .
                                                                           4.01 Ang.
                                                                           2.97 Info
PLAT869_ALERT_4_G ALERTS Related to the Use of SQUEEZE Suppressed
                                                                           ! Info
PLAT899_ALERT_4_G SHELXL97 is Deprecated and Succeeded by SHELXL/
                                                                          2018 Note
   0 ALERT level A = Most likely a serious problem - resolve or explain
   1 ALERT level B = A potentially serious problem, consider carefully
  14 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
   6 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
   8 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
```

checkCIF publication errors

2 ALERT type 5 Informative message, check

Alert level A

6 ALERT type 4 Improvement, methodology, query or suggestion

```
e.g. 'Acta Crystallographica Section C'
PUBL008_ALERT_1_A _publ_section_title is missing. Title of paper.
PUBL009_ALERT_1_A _publ_author_name is missing. List of author(s) name(s).
PUBL010_ALERT_1_A _publ_author_address is missing. Author(s) address(es).
PUBL012_ALERT_1_A _publ_section_abstract is missing.
Abstract of paper in English.
```

Alert level G

PUBL017_ALERT_1_G The _publ_section_references section is missing or empty.

```
7 ALERT level A = Data missing that is essential or data in wrong format 1 ALERT level G = General alerts. Data that may be required is missing
```

Publication of your CIF

You should 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 nature of your study may justify the reported deviations from journal submission requirements and the more serious of these should 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.

If level A alerts remain, which you believe to be justified deviations, and you intend to submit this CIF for publication in a journal, you should additionally insert an explanation in your CIF using the Validation Reply Form (VRF) below. This will allow your explanation to be considered as part of the review process.

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_PUBL004_GLOBAL
;
PROBLEM: The contact author's name and address are missing,
RESPONSE: ...
;
_vrf_PUBL005_GLOBAL
;
PROBLEM: _publ_contact_author_email, _publ_contact_author_fax and
RESPONSE: ...
;
_vrf_PUBL006_GLOBAL
;
PROBLEM: _publ_requested_journal is missing
RESPONSE: ...
;
```

```
_vrf_PUBL008_GLOBAL
;
PROBLEM: _publ_section_title is missing. Title of paper.
RESPONSE: ...
;
_vrf_PUBL009_GLOBAL
;
PROBLEM: _publ_author_name is missing. List of author(s) name(s).
RESPONSE: ...
;
_vrf_PUBL010_GLOBAL
;
PROBLEM: _publ_author_address is missing. Author(s) address(es).
RESPONSE: ...
;
_vrf_PUBL012_GLOBAL
;
PROBLEM: _publ_section_abstract is missing.
RESPONSE: ...
;
# end Validation Reply Form
```

If you wish to submit your CIF for publication in Acta Crystallographica Section C or E, you should upload your CIF via the web. If you wish to submit your CIF for publication in IUCrData you should upload your CIF via the web. If your CIF is to form part of a submission to another IUCr journal, you will be asked, either during electronic submission or by the Co-editor handling your paper, to upload your CIF via our web site.

PLATON version of 05/12/2020; check.def file version of 05/12/2020

