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: shelxl

```
Bond precision: C-C = 0.0097 A
                                        Wavelength=0.71073
Cell:
              a=8.6320(17)
                                b=10.140(2)
                                                c=13.014(3)
              alpha=101.87(3) beta=106.29(3)
                                                 qamma = 105.48(3)
Temperature:
              293 K
               Calculated
                                          Reported
Volume
               1004.1(5)
                                          1004.1(3)
Space group
                                          P - 1
               P -1
Hall group
               -P 1
Moiety formula C46 H38 Au2 Fe P2 S2
                                          ?
Sum formula
               C46 H38 Au2 Fe P2 S2
                                          C46 H38 Au2 Fe P2 S2
Mr
               1166.63
                                          1166.61
               1.929
                                          1.929
Dx,g cm-3
Ζ
               1
                                          1
Mu (mm-1)
               7.860
                                          7.860
F000
               560.0
                                          560.0
F000′
               557.11
h,k,lmax
               11,13,16
                                          11,13,16
Nref
               4618
                                          4585
               0.161,0.164
Tmin,Tmax
Tmin'
               0.122
Correction method= Not given
Data completeness= 0.993
                                  Theta(max) = 27.510
R(reflections) = 0.0328(3925) wR2(reflections) = 0.0855(4585)
S = 1.134
                          Npar= 242
```

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.

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PLAT342_ALERT_3_C Low Bond Precision on C-C Bonds .....
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Alert level G

PLAT005_ALERT_5_G No _iucr_refine_instructions_details in the CIF
PLAT152_ALERT_1_G The Supplied and Calc. Volume s.u. Differ by ... 2 Units
PLAT154_ALERT_1_G The su's on the Cell Angles are Equal ....... 0.03000 Deg.
PLAT199_ALERT_1_G Reported _cell_measurement_temperature .... (K) 293 Check
PLAT200_ALERT_1_G Reported _diffrn_ambient_temperature .... (K) 293 Check
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O ALERT level A = Most likely a serious problem - resolve or explain
O ALERT level B = A potentially serious problem, consider carefully
1 ALERT level C = Check. Ensure it is not caused by an omission or oversight
5 ALERT level G = General information/check it is not something unexpected

4 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
O 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
O ALERT type 4 Improvement, methodology, query or suggestion
1 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*, 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.

