

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) I

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: I

Bond precision: C-C = 0.0066 A Wavelength=0.71073

Cell: a=7.5705(5) b=8.9121(5) c=9.7311(8)
 alpha=67.362(7) beta=75.311(6) gamma=75.443(5)

Temperature: 150 K

	Calculated	Reported
Volume	577.40(8)	577.40(8)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C16 H14.40 Ag2 N4 O1.20, 2(F6 P)	C16 H14.4 Ag2 N4 O1.2, 2(F6 P)
Sum formula	C16 H14.40 Ag2 F12 N4 O1.20 P2	C16 H14.40 Ag2 F12 N4 O1.20 P2
Mr	787.60	787.59
Dx, g cm ⁻³	2.265	2.265
Z	1	1
Mu (mm ⁻¹)	1.952	1.952
F000	380.0	380.0
F000'	378.67	
h,k,lmax	9,11,12	9,11,12
Nref	2649	2648
Tmin,Tmax	0.632,0.823	0.805,1.000
Tmin'	0.454	

Correction method= # Reported T Limits: Tmin=0.805 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 1.000 Theta(max)= 27.484

R(reflections)= 0.0362(2299) wR2(reflections)= 0.0832(2648)

S = 1.036 Npar= 173

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 C**

PLAT077_ALERT_4_C Unitcell Contains Non-integer Number of Atoms .. Please Check

 **Alert level G**

PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms	2	Report
PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ		Please Check
PLAT244_ALERT_4_G	Low 'Solvent' Ueq as Compared to Neighbors of		P1 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of O1	Constrained at	0.6 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1A	Constrained at	0.6 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1B	Constrained at	0.6 Check
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)		5% Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 1)		37.60 Check
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).		2 Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity		1.7 Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.		0 Info

- 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
- 11 **ALERT level G** = General information/check it is not something unexpected

- 1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 - 1 ALERT type 2 Indicator that the structure model may be wrong or deficient
 - 3 ALERT type 3 Indicator that the structure quality may be low
 - 6 ALERT type 4 Improvement, methodology, query or suggestion
 - 1 ALERT type 5 Informative message, check
-

checkCIF publication errors

 **Alert level A**

PUBL012_ALERT_1_A _publ_section_abstract is missing.

Abstract of paper in English.

PUBL024_ALERT_1_A The number of authors is greater than 9.

Please specify the role of each of the co-authors for your paper.

 **Alert level G**

PUBL017_ALERT_1_G The _publ_section_references section is missing or empty.

- 2 **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_PUBL012_GLOBAL
;
PROBLEM: _publ_section_abstract is missing.
RESPONSE: ...
;
_vrf_PUBL024_GLOBAL
;
PROBLEM: The number of authors is greater than 9.
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

