

## 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.

No syntax errors found.      CIF dictionary      Interpreting this report

### Datablock: Ag22-CBP

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Bond precision:	C-C = 0.0138 A	Wavelength=1.54184
Cell:	a=31.2047(9)	b=14.4204(5)      c=30.1096(13)
	alpha=90	beta=101.376(4)      gamma=90
Temperature:	100 K	
	Calculated	Reported
Volume	13282.7(9)	13282.7(8)
Space group	C 2/c	C 1 2/c 1
Hall group	-C 2yc	-C 2yc
Moiety formula	C55 H28 Ag11 F21 N4 O19	C55 H28 Ag11 F21 N4 O19
Sum formula	C55 H28 Ag11 F21 N4 O19	C55 H28 Ag11 F21 N4 O19
Mr	2634.39	2634.38
Dx, g cm <sup>-3</sup>	2.635	2.635
Z	8	8
Mu (mm <sup>-1</sup> )	26.626	26.627
F000	9952.0	9952.0
F000'	9999.14	
h, k, lmax	37, 17, 35	37, 17, 35
Nref	11741	9369
Tmin, Tmax	0.046, 0.264	0.290, 1.000
Tmin'	0.007	

Correction method= # Reported T Limits: Tmin=0.290 Tmax=1.000  
AbsCorr = MULTI-SCAN

Data completeness= 0.798      Theta(max)= 66.592

R(reflections)= 0.0487( 7046)	wR2(reflections)=
S = 1.010	0.1238( 9369)
Npar= 969	

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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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### Alert level C

ABSTY02\_ALERT\_1\_C An \_exptl\_absorpt\_correction\_type has been given without  
a literature citation. This should be contained in the  
\_exptl\_absorpt\_process\_details field.

Absorption correction given as multi-scan

PLAT018_ALERT_1_C	_diffn_measured_fraction_theta_max	.NE. *_full	! Check
PLAT213_ALERT_2_C	Atom Ag1	has ADP max/min Ratio .....	3.2 prolat
PLAT213_ALERT_2_C	Atom Ag2	has ADP max/min Ratio .....	3.7 prolat
PLAT213_ALERT_2_C	Atom ClAA	has ADP max/min Ratio .....	3.6 prolat
PLAT213_ALERT_2_C	Atom C25	has ADP max/min Ratio .....	3.5 prolat
PLAT213_ALERT_2_C	Atom C95	has ADP max/min Ratio .....	3.1 prolat
PLAT220_ALERT_2_C	NonSolvent	Resd 1 F Ueq(max)/Ueq(min) Range	3.5 Ratio
PLAT220_ALERT_2_C	NonSolvent	Resd 1 O Ueq(max)/Ueq(min) Range	3.1 Ratio
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	Ag1 Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	O14 Check
PLAT241_ALERT_2_C	High	'MainMol' Ueq as Compared to Neighbors of	O18 Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	Ag3 Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	ClBA Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C9 Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C20 Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C31 Check
PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C51 Check
PLAT342_ALERT_3_C	Low Bond Precision on	C-C Bonds .....	0.01379 Ang.
PLAT362_ALERT_2_C	Short	C(sp3)-C(sp2) Bond C51 - C52	1.41 Ang.

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### Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	4 Note	
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	3 Info	
PLAT012_ALERT_1_G	N.O.K. _shelx_res_checksum Found in CIF .....	Please Check	
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records	2 Report	
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	1 Report	
PLAT173_ALERT_4_G	The CIF-Embedded .res File Contains DANG Records	2 Report	
PLAT242_ALERT_2_G	Low	'MainMol' Ueq as Compared to Neighbors of	ClAA Check
PLAT242_ALERT_2_G	Low	'MainMol' Ueq as Compared to Neighbors of	C24 Check
PLAT242_ALERT_2_G	Low	'MainMol' Ueq as Compared to Neighbors of	C26 Check
PLAT242_ALERT_2_G	Low	'MainMol' Ueq as Compared to Neighbors of	C28 Check
PLAT242_ALERT_2_G	Low	'MainMol' Ueq as Compared to Neighbors of	C30 Check
PLAT242_ALERT_2_G	Low	'MainMol' Ueq as Compared to Neighbors of	C52 Check
PLAT242_ALERT_2_G	Low	'MainMol' Ueq as Compared to Neighbors of	C67 Check
PLAT301_ALERT_3_G	Main Residue Disorder .....	(Resd 1 )	1% Note
PLAT343_ALERT_2_G	Unusual sp?	Angle Range in Main Residue for	C20 Check
PLAT343_ALERT_2_G	Unusual sp?	Angle Range in Main Residue for	C40 Check
PLAT343_ALERT_2_G	Unusual	Angle Range in Main Residue for	C49 Check
PLAT343_ALERT_2_G	Unusual	Angle Range in Main Residue for	C50 Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels .....		3 Note
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...		17.80 Deg.
	AG2 -N2 -AG2A	3_545 1_555 3_545 .....	# 391 Check
PLAT860_ALERT_3_G	Number of Least-Squares Restraints .....		3 Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...		2067 Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity .....		3.1 Low

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0 ALERT level A = Most likely a serious problem - resolve or explain
0 ALERT level B = A potentially serious problem, consider carefully
20 ALERT level C = Check. Ensure it is not caused by an omission or oversight
23 ALERT level G = General information/check it is not something unexpected

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

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## 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_ABSTY02_Ag22-CBP
;
PROBLEM: An _exptl_absorpt_correction_type has been given without
RESPONSE: ...
;
_vrf_PLAT018_Ag22-CBP
;
PROBLEM: _diffrn_measured_fraction_theta_max .NE. *_full ! Check
RESPONSE: ...
;
_vrf_PLAT213_Ag22-CBP
;
PROBLEM: Atom Ag1 has ADP max/min Ratio ..... 3.2 prolat
RESPONSE: ...
;
_vrf_PLAT220_Ag22-CBP
;
PROBLEM: NonSolvent Resd 1 F Ueq(max)/Ueq(min) Range 3.5 Ratio
RESPONSE: ...
;
_vrf_PLAT241_Ag22-CBP
;
PROBLEM: High 'MainMol' Ueq as Compared to Neighbors of Ag1 Check
RESPONSE: ...
;
_vrf_PLAT242_Ag22-CBP
;
PROBLEM: Low 'MainMol' Ueq as Compared to Neighbors of Ag3 Check
RESPONSE: ...
;
_vrf_PLAT342_Ag22-CBP
;
PROBLEM: Low Bond Precision on C-C Bonds ..... 0.01379 Ang.
RESPONSE: ...
;
_vrf_PLAT362_Ag22-CBP
;

```

PROBLEM: Short C(sp3)-C(sp2) Bond C51 - C52 . 1.41 Ang.  
RESPONSE: ...  
;  
# end Validation Reply Form

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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* 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.

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**PLATON version of 13/07/2021; check.def file version of 13/07/2021**

