

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) compound1

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: compound1

Bond precision:	C-C = 0.0092 A	Wavelength=0.71073
Cell:	a=8.0211 (13) alpha=90	b=17.506 (3) beta=90
Temperature:	298 K	c=25.923 (4) gamma=90
	Calculated	Reported
Volume	3640.0 (10)	3640.1 (10)
Space group	I m a 2	I m a 2
Hall group	I 2 -2a	I 2 -2a
Moiety formula	C16 H27 Ag6 S4, 2 (B F4) [+ solvent]	?
Sum formula	C16 H27 Ag6 B2 F8 S4 [+ solvent]	C16 H36 Ag6 B2 F8 S4
Mr	1168.46	1177.53
Dx, g cm-3	2.132	2.149
Z	4	4
Mu (mm-1)	3.441	3.442
F000	2204.0	2240.0
F000'	2185.31	
h, k, lmax	9, 20, 30	9, 20, 30
Nref	3487 [1786]	2895
Tmin, Tmax		0.580, 0.745
Tmin'		

Correction method= # Reported T Limits: Tmin=0.580 Tmax=0.745

AbsCorr = MULTII-SCAN

Data completeness= 1.62/0.83

Theta(max)= 25.022

R(reflections)= 0.0419(1939)

wR2(reflections)=
0.1178(2895)

S = 1.080

Npar= 197

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 B

PLAT230_ALERT_2_B	Hirshfeld Test Diff for	C7	--C9	.	10.3 s.u.
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	C10	--C11	.	9.0 s.u.
PLAT260_ALERT_2_B	Large Average Ueq of Residue Including		F1		0.311 Check
PLAT260_ALERT_2_B	Large Average Ueq of Residue Including		F4		0.332 Check
PLAT315_ALERT_2_B	Singly Bonded Carbon Detected (H-atoms Missing).			C2	Check
PLAT315_ALERT_2_B	Singly Bonded Carbon Detected (H-atoms Missing).			C6	Check
PLAT315_ALERT_2_B	Singly Bonded Carbon Detected (H-atoms Missing).			C12	Check
PLAT412_ALERT_2_B	Short Intra XH3 .. XHn	H3B	..H3B	.	1.77 Ang.
			3/2-x,y,z =		4_655 Check
PLAT936_ALERT_2_B	The Embedded .res File Includes a DAMP Command .				5000.0 Report
PLAT987_ALERT_1_B	The Flack x is >> 0 - Do a BASF/TWIN Refinement				Please Check

● 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

STRVA01_ALERT_4_C Flack test results are ambiguous.
From the CIF: _refine_ls_abs_structure_Flack 0.460
From the CIF: _refine_ls_abs_structure_Flack_su 0.080

PLAT053_ALERT_1_C	Minimum Crystal Dimension Missing (or Error) ...				Please Check
PLAT054_ALERT_1_C	Medium Crystal Dimension Missing (or Error) ...				Please Check
PLAT055_ALERT_1_C	Maximum Crystal Dimension Missing (or Error) ...				Please Check
PLAT202_ALERT_3_C	Isotropic non-H Atoms in Anion/Solvent				3 Check
	F1	B1	B2		
PLAT213_ALERT_2_C	Atom C3			has ADP max/min Ratio	3.5 prolat
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X)	Ag2	--S4	.	8.9 s.u.
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X)	Ag4	--S3	.	5.8 s.u.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C1	--C3	.	0.18 Ang.
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				Ag2 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				Ag6 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				S1 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				S2 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				S3 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				S4 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C1 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C4 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C7 Check
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds				0.00917 Ang.
PLAT905_ALERT_3_C	Negative K value in the Analysis of Variance ...				-0.451 Report
PLAT910_ALERT_3_C	Missing # of FCF Reflection(s) Below Theta(Min).				5 Note
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & Sth/L=	0.595			8 Report

● Alert level G

FORMU01_ALERT_2_G There is a discrepancy between the atom counts in the
_chemical_formula_sum and the formula from the _atom_site* data.
Atom count from _chemical_formula_sum: C16 H36 Ag6 B2 F8 S4
Atom count from the _atom_site data: C16 H27 Ag6 B2 F8 S4
CELLZ01_ALERT_1_G Difference between formula and atom_site contents detected.
CELLZ01_ALERT_1_G WARNING: H atoms missing from atom site list. Is this intentional?
From the CIF: _cell_formula_units_Z 4
From the CIF: _chemical_formula_sum C16 H36 Ag6 B2 F8 S4
TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	64.00	64.00	0.00
H	144.00	108.00	36.00
Ag	24.00	24.00	0.00
B	8.00	8.00	0.00
F	32.00	32.00	0.00
S	16.00	16.00	0.00

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	24	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	12	Report
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	1	Info
PLAT041_ALERT_1_G	Calc. and Reported SumFormula Strings Differ		Please Check
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	23.09	Why ?
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	4	Report
PLAT173_ALERT_4_G	The CIF-Embedded .res File Contains DANG Records	2	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	1	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	1	Report
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag3A --S2 .	9.1	s.u.
PLAT244_ALERT_4_G	Low 'Solvent' Ueq as Compared to Neighbors of	B1	Check
PLAT244_ALERT_4_G	Low 'Solvent' Ueq as Compared to Neighbors of	B2	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H8A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H8B Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H8C Constrained at	0.5	Check
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 1)	6%	Note
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C2	Check
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C6	Check
PLAT343_ALERT_2_G	Unusual sp3 Angle Range in Main Residue for	C7	Check
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C12	Check
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C1 - C2 .	1.54	Ang.
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C4 - C6 .	1.54	Ang.
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C7 - C8 .	1.50	Ang.
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C10 - C12 .	1.51	Ang.
PLAT412_ALERT_2_G	Short Intra XH3 .. XHn H8B ..H9B .	2.00	Ang.
	x,y,z =	1_555	Check
PLAT605_ALERT_4_G	Largest Solvent Accessible VOID in the Structure	185	A**3
PLAT764_ALERT_4_G	Overcomplete CIF Bond List Detected (Rep/Expd) .	1.21	Ratio
PLAT794_ALERT_5_G	Tentative Bond Valency for Ag2 (I) .	1.08	Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Ag4 (I) .	1.02	Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Ag6 (I) .	0.90	Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	73	Note
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed	!	Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .		Please Do !
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	32%	Note
PLAT913_ALERT_3_G	Missing # of Very Strong Reflections in FCF	1	Note
PLAT915_ALERT_3_G	No Flack x Check Done: Low Friedel Pair Coverage	66	%
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...	4	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	4.9	Low

PLAT965_ALERT_2_G The SHELXL WEIGHT Optimisation has not Converged Please Check
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
10 **ALERT level B** = A potentially serious problem, consider carefully
23 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
43 **ALERT level G** = General information/check it is not something unexpected

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

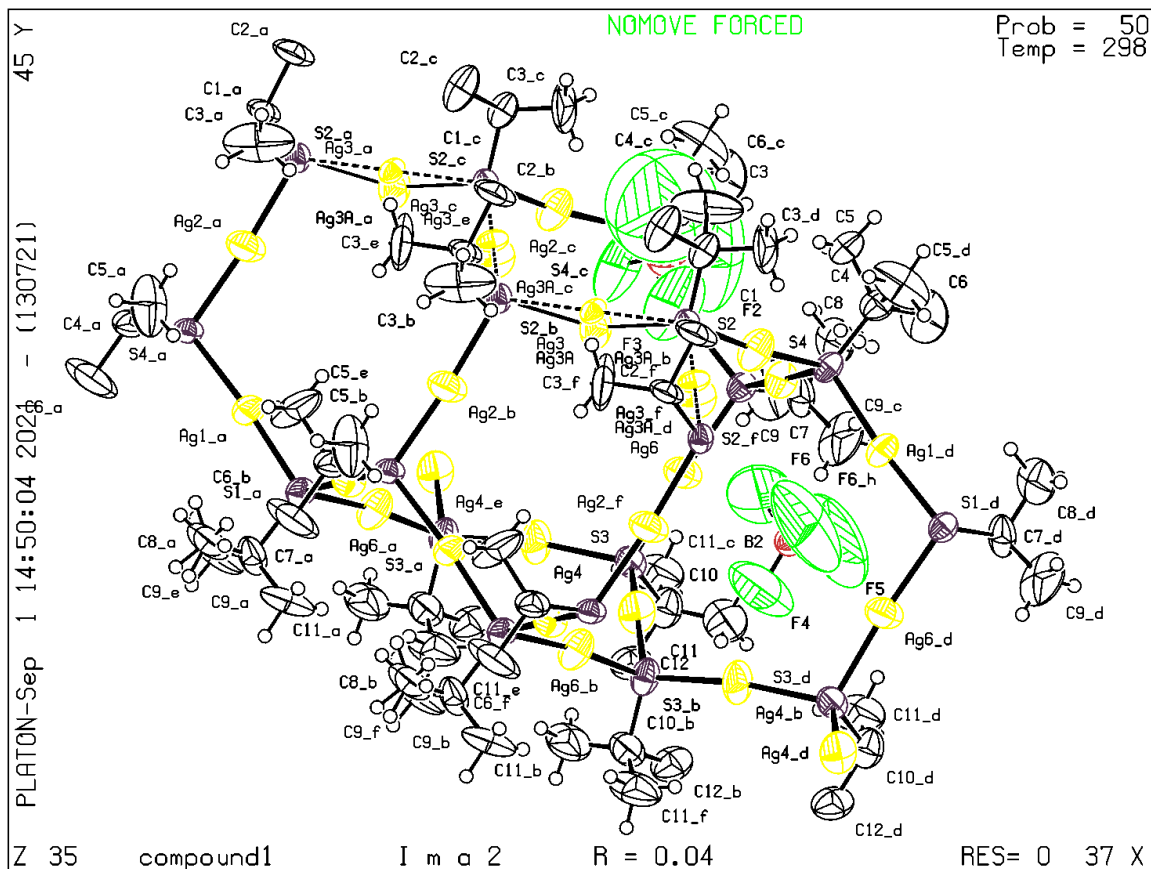
It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious 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.



checkCIF/PLATON report

Structure factors have been supplied for datablock(s) compound2

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: compound2

Bond precision: C-C = 0.0110 Å Wavelength=0.71073

Cell: a=28.993(3) b=13.3666(13) c=30.602(3)
 alpha=90 beta=103.405(2) gamma=90

Temperature: 172 K

	Calculated	Reported
Volume	11536(2)	11536.4(19)
Space group	P 21/n	P 21/n
Hall group	-P 2yn	-P 2yn
Moiety formula	C62 H91 Ag19 F24 N3 O21 S10 [+ solvent]	?
Sum formula	C62 H91 Ag19 F24 N3 O21 S10 [+ solvent]	C62 H98 Ag19 F24 N3 O21 S10
Mr	4040.51	4047.56
Dx, g cm ⁻³	2.326	2.330
Z	4	4
Mu (mm ⁻¹)	3.416	3.416
F000	7684.0	7712.0
F000'	7624.29	
h, k, lmax	32, 14, 33	32, 14, 33
Nref	16556	16493
Tmin, Tmax		0.005, 0.018
Tmin'		

Correction method= # Reported T Limits: Tmin=0.005 Tmax=0.018

AbsCorr = MULTII-SCAN

Data completeness= 0.996

Theta(max)= 23.257

R(reflections)= 0.0735(14066)

wR2(reflections)=
0.2153(16493)

S = 1.056

Npar= 1322

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 B

THETM01_ALERT_3_B The value of sine(theta_max)/wavelength is less than 0.575
Calculated sin(theta_max)/wavelength = 0.5556

PLAT201_ALERT_2_B Isotropic non-H Atoms in Main Residue(s) 3 Report

	08	051	052		
PLAT241_ALERT_2_B	High	'MainMol'	Ueq as Compared to Neighbors of	09	Check
PLAT241_ALERT_2_B	High	'MainMol'	Ueq as Compared to Neighbors of	016	Check
PLAT241_ALERT_2_B	High	'MainMol'	Ueq as Compared to Neighbors of	051	Check
PLAT242_ALERT_2_B	Low	'MainMol'	Ueq as Compared to Neighbors of	C33	Check
PLAT242_ALERT_2_B	Low	'MainMol'	Ueq as Compared to Neighbors of	C37	Check
PLAT242_ALERT_2_B	Low	'MainMol'	Ueq as Compared to Neighbors of	C47	Check
PLAT242_ALERT_2_B	Low	'MainMol'	Ueq as Compared to Neighbors of	C49	Check
PLAT430_ALERT_2_B	Short Inter D...A Contact	06	..052	2.72	Ang.
			2-x,-y,1-z =	3_756	Check
PLAT910_ALERT_3_B	Missing # of FCF Reflection(s) Below Theta(Min).			30	Note
PLAT936_ALERT_2_B	The Embedded .res File Includes a DAMP Command .			5000.0	Report

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

PLAT053_ALERT_1_C Minimum Crystal Dimension Missing (or Error) ... Please Check

PLAT054_ALERT_1_C Medium Crystal Dimension Missing (or Error) ... Please Check

PLAT055_ALERT_1_C Maximum Crystal Dimension Missing (or Error) ... Please Check

PLAT213_ALERT_2_C Atom F7 has ADP max/min Ratio 3.1 prolat

PLAT213_ALERT_2_C Atom F12 has ADP max/min Ratio 3.4 prolat

PLAT213_ALERT_2_C Atom C31 has ADP max/min Ratio 3.1 prolat

PLAT213_ALERT_2_C Atom C38 has ADP max/min Ratio 3.4 prolat

PLAT220_ALERT_2_C NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range 4.7 Ratio

PLAT220_ALERT_2_C NonSolvent Resd 1 O Ueq(max)/Ueq(min) Range 3.2 Ratio

PLAT222_ALERT_3_C NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range 4.1 Ratio

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of 01 Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of 03 Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of 04 Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of 07 Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of 011 Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of 017 Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of 018 Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of 019 Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of N3 Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of C58 Check

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of Ag6 Check

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of Ag9 Check

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of Ag14 Check

PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	Ag16	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	S6	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	S7	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	S8	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	S10	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	N1	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C1	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	C13	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C25	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C29	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C32	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C43	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C45	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C51	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C53	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C55	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C59	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C61	Check
PLAT260_ALERT_2_C	Large Average	Ueq of Residue Including	Ag1	0.121	Check
PLAT309_ALERT_2_C	Single Bonded	Oxygen (C-O > 1.3 Ang)	.....	013	Check
PLAT342_ALERT_3_C	Low Bond Precision on	C-C Bonds	.....	0.01105	Ang.
PLAT360_ALERT_2_C	Short	C(sp3)-C(sp3) Bond	C33 - C35 .	1.42	Ang.
PLAT361_ALERT_2_C	Long	C(sp3)-C(sp3) Bond	C29 - C42 .	1.71	Ang.
PLAT362_ALERT_2_C	Short	C(sp3)-C(sp2) Bond	C29 - C30 .	1.39	Ang.
PLAT362_ALERT_2_C	Short	C(sp3)-C(sp2) Bond	C31 - C33 .	1.33	Ang.
PLAT431_ALERT_2_C	Short	Inter HL..A Contact	F7 ..052 .	2.72	Ang.
		2-x,-y,1-z =		3_756	Check
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance	.....		3.206	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.556		32	Report
PLAT976_ALERT_2_C	Check Calcd Resid. Dens.	0.54A	From O52	-1.32	eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens.	0.66A	From O52	-0.95	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on	H2AC		-0.32	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on	H27C		-0.33	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on	H38B		-0.60	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on	H42B		-0.37	eA-3

● Alert level G

FORMU01_ALERT_2_G There is a discrepancy between the atom counts in the
 _chemical_formula_sum and the formula from the _atom_site* data.
 Atom count from _chemical_formula_sum: C62 H98 Ag19 F24 N3 O21 S10
 Atom count from the _atom_site data: C62 H91 Ag19 F24 N3 O21 S10

CELLZ01_ALERT_1_G Difference between formula and atom_site contents detected.

CELLZ01_ALERT_1_G WARNING: H atoms missing from atom site list. Is this intentional?

From the CIF: _cell_formula_units_Z 4
 From the CIF: _chemical_formula_sum C62 H98 Ag19 F24 N3 O21 S10
 TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	248.00	248.00	0.00
H	392.00	364.00	28.00
Ag	76.00	76.00	0.00
F	96.00	96.00	0.00
N	12.00	12.00	0.00
O	84.00	84.00	0.00
S	40.00	40.00	0.00

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	36	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	108	Report
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	2	Info
PLAT017_ALERT_1_G	Check Scattering Type Consistency of A11A as	AG	
PLAT017_ALERT_1_G	Check Scattering Type Consistency of A10A as	AG	
PLAT017_ALERT_1_G	Check Scattering Type Consistency of A12A as	AG	
PLAT041_ALERT_1_G	Calc. and Reported SumFormula Strings Differ	Please	Check
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	273.25	Why ?
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	11	Report
PLAT173_ALERT_4_G	The CIF-Embedded .res File Contains DANG Records	1	Report
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	6	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	2	Report
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C34	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C44	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C46	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C48	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C50	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	C54	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C62	Check
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 1)	5%	Note
PLAT303_ALERT_2_G	Full Occupancy Atom H7AC with # Connections	1.07	Check
PLAT343_ALERT_2_G	Unusual sp3 Angle Range in Main Residue for	C48	Check
PLAT343_ALERT_2_G	Unusual sp3 Angle Range in Main Residue for	C50	Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact F2 ..C26	2.92	Ang.
	3/2-x,-1/2+y,1/2-z =	2_645	Check
PLAT606_ALERT_4_G	Solvent Accessible VOID(S) in Structure	!	Info
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	15	Note
PLAT773_ALERT_2_G	Check long C-C Bond in CIF: C29 --C42	1.71	Ang.
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	610	Note
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed	!	Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .	Please	Do !
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	69%	Note
PLAT913_ALERT_3_G	Missing # of Very Strong Reflections in FCF	3	Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...	4	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	3.9	Low
PLAT965_ALERT_2_G	The SHELXL WEIGHT Optimisation has not Converged	Please	Check
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
 12 **ALERT level B** = A potentially serious problem, consider carefully
 59 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
 40 **ALERT level G** = General information/check it is not something unexpected

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

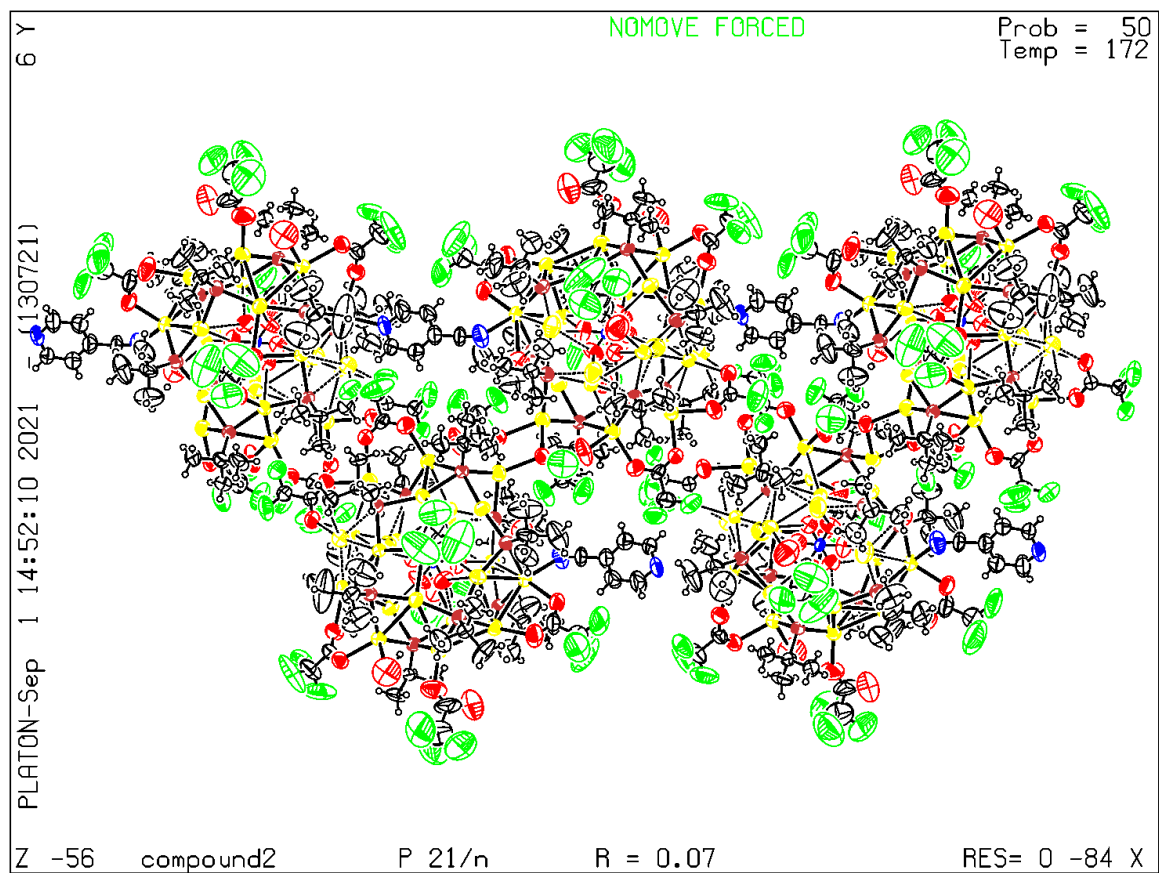
It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious 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.



checkCIF/PLATON report

Structure factors have been supplied for datablock(s) compound3

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: compound3

Bond precision:	C-C = 0.0187 Å	Wavelength=0.71073
Cell:	a=13.5484 (15)	b=15.7398 (17) c=16.2419 (18)
	alpha=118.629 (2)	beta=103.322 (2) gamma=99.445 (3)
Temperature:	173 K	
	Calculated	Reported
Volume	2801.4 (5)	2801.4 (5)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C65 H102 Ag20 F24 N4 O22 S10	?
Sum formula	C65 H102 Ag20 F24 N4 O22 S10	C65 H102 Ag20 F24 N4 O19 S10
Mr	4225.51	4177.50
Dx, g cm ⁻³	2.505	2.476
Z	1	1
Mu (mm ⁻¹)	3.690	3.686
F000	2012.0	1988.0
F000'	1996.20	
h, k, lmax	16, 18, 19	16, 18, 19
Nref	9891	9633
Tmin, Tmax		0.285, 0.745
Tmin'		

Correction method= # Reported T Limits: Tmin=0.285 Tmax=0.745

AbsCorr = MULTI-SCAN

Data completeness= 0.974

Theta(max)= 25.027

R(reflections)= 0.0583(9081)

wR2(reflections)=
0.1571(9633)

S = 1.087

Npar= 680

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 B

PLAT043_ALERT_1_B	Calculated and Reported Mol. Weight Differ by ..	48.01	Check
PLAT201_ALERT_2_B	Isotropic non-H Atoms in Main Residue(s)	3	Report
	F5 C19 C101		
PLAT213_ALERT_2_B	Atom C20 has ADP max/min Ratio	4.1	prolat
PLAT213_ALERT_2_B	Atom C24 has ADP max/min Ratio	4.6	prolat
PLAT220_ALERT_2_B	NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range	10.0	Ratio
PLAT241_ALERT_2_B	High 'MainMol' Ueq as Compared to Neighbors of	06	Check
PLAT241_ALERT_2_B	High 'MainMol' Ueq as Compared to Neighbors of	011	Check
PLAT242_ALERT_2_B	Low 'MainMol' Ueq as Compared to Neighbors of	C23	Check
PLAT242_ALERT_2_B	Low 'MainMol' Ueq as Compared to Neighbors of	C101	Check

● 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

PLAT029_ALERT_3_C	_diffn_measured_fraction_theta_full value Low .	0.974	Why?
PLAT041_ALERT_1_C	Calc. and Reported SumFormula Strings Differ		Please Check
PLAT053_ALERT_1_C	Minimum Crystal Dimension Missing (or Error) ...		Please Check
PLAT054_ALERT_1_C	Medium Crystal Dimension Missing (or Error) ...		Please Check
PLAT055_ALERT_1_C	Maximum Crystal Dimension Missing (or Error) ...		Please Check
PLAT068_ALERT_1_C	Reported F000 Differs from Calcd (or Missing)...		Please Check
PLAT213_ALERT_2_C	Atom F4 has ADP max/min Ratio	3.6	prolat
PLAT213_ALERT_2_C	Atom F6 has ADP max/min Ratio	3.4	prolat
PLAT213_ALERT_2_C	Atom F8 has ADP max/min Ratio	3.9	prolat
PLAT213_ALERT_2_C	Atom C25 has ADP max/min Ratio	3.7	prolat
PLAT220_ALERT_2_C	NonSolvent Resd 1 F Ueq(max)/Ueq(min) Range	3.4	Ratio
PLAT220_ALERT_2_C	NonSolvent Resd 1 O Ueq(max)/Ueq(min) Range	3.2	Ratio
PLAT222_ALERT_3_C	NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range	4.1	Ratio
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X) Ag1 --O5_a .	6.4	s.u.
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X) Ag3 --S2_a .	5.6	s.u.
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X) Ag5 --S4 .	6.4	s.u.
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X) Ag8 --S5_a .	7.5	s.u.
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X) Ag10 --O5 .	6.6	s.u.
PLAT234_ALERT_4_C	Large Hirshfeld Difference Ag6 --O6 .	0.21	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference Ag9 --O11 .	0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference Ag10 --O11_a .	0.17	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference A6A --O6 .	0.22	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference O5 --O6 .	0.21	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference O5 --O11_a .	0.22	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference O11 --O5_a .	0.22	Ang.
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	01	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	02	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	03	Check

PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	05	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	09	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	010	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	Ag9	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	C18	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C28	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	C33	Check
PLAT342_ALERT_3_C	Low	Bond Precision on C-C Bonds		0.01867	Ang.
PLAT906_ALERT_3_C	Large	K Value in the Analysis of Variance		2.924	Check
PLAT910_ALERT_3_C	Missing	# of FCF Reflection(s) Below Theta (Min).		8	Note
PLAT911_ALERT_3_C	Missing	FCF Refl Between Thmin & STh/L= 0.595		252	Report
PLAT913_ALERT_3_C	Missing	# of Very Strong Reflections in FCF		11	Note
PLAT971_ALERT_2_C	Check	Calcd Resid. Dens. 0.91A	From Ag2	1.93	eA-3
PLAT971_ALERT_2_C	Check	Calcd Resid. Dens. 1.08A	From Ag2	1.66	eA-3
PLAT971_ALERT_2_C	Check	Calcd Resid. Dens. 0.88A	From Ag1	1.64	eA-3
PLAT971_ALERT_2_C	Check	Calcd Resid. Dens. 1.06A	From Ag5	1.58	eA-3
PLAT971_ALERT_2_C	Check	Calcd Resid. Dens. 0.80A	From Ag9	1.51	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.80A	From Ag9	-2.37	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.92A	From Ag10	-1.97	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.62A	From Ag5	-1.97	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.88A	From Ag4	-1.90	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.78A	From Ag10	-1.82	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.87A	From Ag8	-1.81	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.93A	From Ag1	-1.78	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.82A	From Ag6	-1.70	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.54A	From O5	-1.60	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.88A	From Ag2	-1.57	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.97A	From Ag3	-1.56	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.77A	From Ag3	-1.56	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.57A	From O5	-1.56	eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens. 0.88A	From Ag4	-1.53	eA-3
PLAT977_ALERT_2_C	Check	Negative Difference Density on H24A		-0.33	eA-3

Alert level G

FORMU01_ALERT_2_G There is a discrepancy between the atom counts in the
 _chemical_formula_sum and the formula from the _atom_site* data.
 Atom count from _chemical_formula_sum: C65 H102 Ag20 F24 N4 O19 S10
 Atom count from the _atom_site data: C65 H102 Ag20 F24 N4 O22 S10

CELLZ01_ALERT_1_G Difference between formula and atom_site contents detected.
 CELLZ01_ALERT_1_G ALERT: Large difference may be due to a
 symmetry error - see SYMMG tests
 From the CIF: _cell_formula_units_Z 1
 From the CIF: _chemical_formula_sum C65 H102 Ag20 F24 N4 O19 S10
 TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	65.00	65.00	0.00
H	102.00	102.00	0.00
Ag	20.00	20.00	0.00
F	24.00	24.00	0.00
N	4.00	4.00	0.00
O	19.00	22.00	-3.00
S	10.00	10.00	0.00

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 4 Note

PLAT017_ALERT_1_G	Check Scattering Type Consistency of A6A	as	AG
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT	Unusually Large	34.73 Why ?
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records		1 Report
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X)	Ag6 --O5 .	6.9 s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X)	A6A --O5 .	5.4 s.u.
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of		C27 Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of		C29 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		C32 Check
PLAT301_ALERT_3_G	Main Residue Disorder	(Resd 1)	6% Note
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for		C101 Check
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond	C28 - C29 .	1.50 Ang.
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels		1 Note
PLAT764_ALERT_4_G	Overcomplete CIF Bond List Detected (Rep/Expd) .		1.17 Ratio
PLAT860_ALERT_3_G	Number of Least-Squares Restraints		3 Note
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .		Please Do !
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still		86% Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity		1.8 Low
PLAT965_ALERT_2_G	The SHELXL WEIGHT Optimisation has not Converged		Please Check
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
 9 **ALERT level B** = A potentially serious problem, consider carefully
 63 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
 24 **ALERT level G** = General information/check it is not something unexpected

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

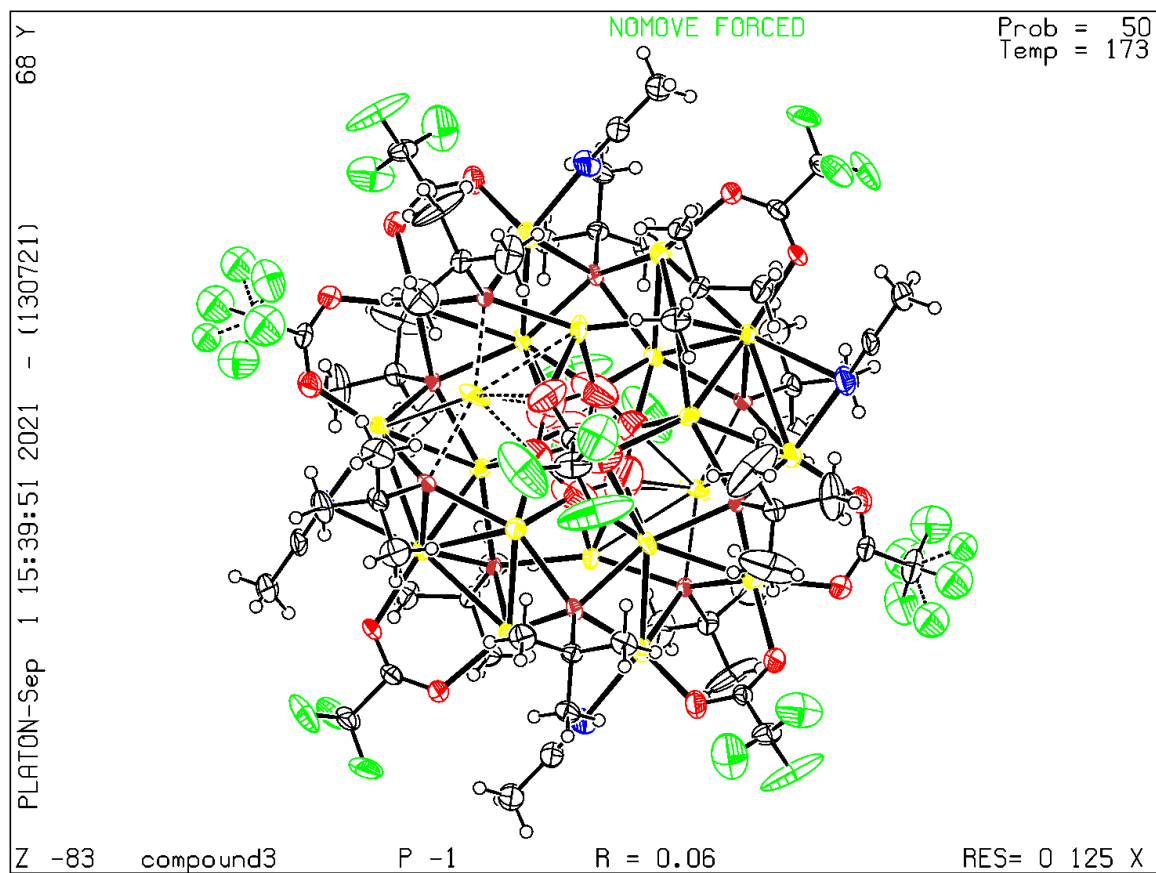
It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious 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.



checkCIF/PLATON report

Structure factors have been supplied for datablock(s) compound4

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: compound4

Bond precision: C-C = 0.0410 Å Wavelength=0.71073

Cell: a=18.149(3) b=18.817(3) c=26.043(5)
 alpha=68.967(4) beta=79.628(6) gamma=76.198(4)
Temperature: 293 K

	Calculated	Reported
Volume	8018(2)	8018(2)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C68 H162 Ag22 O25 P9 S26 V2, C O, 2(O) [+ solvent]	?
Sum formula	C69 H162 Ag22 O28 P9 S26 V2 [+ solvent]	C73 H187 Ag22 O33 P9 S26 V2
Mr	5027.25	5180.52
Dx, g cm ⁻³	2.082	2.146
Z	2	2
Mu (mm ⁻¹)	3.204	3.210
F000	4862.0	5040.0
F000'	4833.23	
h, k, lmax	20, 20, 28	20, 20, 28
Nref	23013	22912
Tmin, Tmax	0.636, 0.725	0.596, 0.740
Tmin'	0.556	

Correction method= # Reported T Limits: Tmin=0.596 Tmax=0.740

AbsCorr = MULTI-SCAN

Data completeness= 0.996

Theta(max)= 23.256

R(reflections)= 0.0704(14725)

wR2(reflections)=
0.1956(22912)

S = 0.993

Npar= 1404

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 B

THETM01_ALERT_3_B The value of sine(theta_max)/wavelength is less than 0.575
Calculated sin(theta_max)/wavelength = 0.5555

PLAT201_ALERT_2_B Isotropic non-H Atoms in Main Residue(s) 4 Report
S18A O25 C26 C36

PLAT232_ALERT_2_B Hirshfeld Test Diff (M-X) Ag2 --S24 . 11.5 s.u.
PLAT232_ALERT_2_B Hirshfeld Test Diff (M-X) Ag20 --S2 . 12.3 s.u.

PLAT241_ALERT_2_B High 'MainMol' Ueq as Compared to Neighbors of C21 Check
PLAT241_ALERT_2_B High 'MainMol' Ueq as Compared to Neighbors of C35 Check
PLAT242_ALERT_2_B Low 'MainMol' Ueq as Compared to Neighbors of P9 Check
PLAT242_ALERT_2_B Low 'MainMol' Ueq as Compared to Neighbors of C41 Check
PLAT242_ALERT_2_B Low 'MainMol' Ueq as Compared to Neighbors of C53 Check
PLAT242_ALERT_2_B Low 'MainMol' Ueq as Compared to Neighbors of C65 Check
PLAT306_ALERT_2_B Isolated Oxygen Atom (H-atoms Missing ?) 01W Check
PLAT306_ALERT_2_B Isolated Oxygen Atom (H-atoms Missing ?) 02W Check
PLAT342_ALERT_3_B Low Bond Precision on C-C Bonds 0.04095 Ang.
PLAT360_ALERT_2_B Short C(sp3)-C(sp3) Bond C13 - C14 . 1.26 Ang.
PLAT360_ALERT_2_B Short C(sp3)-C(sp3) Bond C15 - C16 . 1.30 Ang.
PLAT910_ALERT_3_B Missing # of FCF Reflection(s) Below Theta(Min). 48 Note

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

PLAT202_ALERT_3_C Isotropic non-H Atoms in Anion/Solvent 4 Check
O101 C101 O1W O2W

PLAT213_ALERT_2_C Atom O24 has ADP max/min Ratio 3.8 oblate
PLAT213_ALERT_2_C Atom C42 has ADP max/min Ratio 3.4 prolat
PLAT213_ALERT_2_C Atom C54 has ADP max/min Ratio 3.3 prolat
PLAT213_ALERT_2_C Atom C55 has ADP max/min Ratio 3.3 prolat
PLAT213_ALERT_2_C Atom C56 has ADP max/min Ratio 3.6 prolat
PLAT220_ALERT_2_C NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range 5.1 Ratio
PLAT220_ALERT_2_C NonSolvent Resd 1 O Ueq(max)/Ueq(min) Range 4.7 Ratio
PLAT220_ALERT_2_C NonSolvent Resd 1 S Ueq(max)/Ueq(min) Range 5.7 Ratio
PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Ag2 --S23 . 5.5 s.u.
PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Ag5 --S20 . 6.5 s.u.
PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Ag6 --S23 . 6.0 s.u.
PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Ag6 --S24 . 6.5 s.u.
PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Ag7 --S3 . 6.7 s.u.
PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Ag9 --S8 . 5.3 s.u.
PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Ag10 --S17 . 6.0 s.u.
PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Ag11 --S10 . 6.0 s.u.
PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Ag19 --S1 . 6.8 s.u.
PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Ag19 --S3 . 5.7 s.u.

PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X)	Ag21	--S20	.	5.5 s.u.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	Ag10	--O2	.	0.17 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	Ag18	--O6	.	0.16 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	S26	--C65	.	0.17 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	P1	--O8	.	0.19 Ang.
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				S12 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				S16 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				O23 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				O24 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C1 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C3 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C7 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C15 Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of				C27 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				Ag21 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				V1 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				S19 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				S20 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				S21 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				S23 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				S24 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				S25 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				S26 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				P1 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				P5 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				P6 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				P8 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				O6 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				O8 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				O9 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				O12 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				O13 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				O14 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				O18 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				O19 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				O20 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				O21 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				O25 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C13 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C17 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C25 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C37 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C45 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C49 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C57 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of				C61 Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including	Ag1			0.123 Check
PLAT309_ALERT_2_C	Single Bonded Oxygen (C-O > 1.3 Ang)				O101 Check
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C1	- C2	.	1.41 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C3	- C4	.	1.42 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C9	- C10	.	1.43 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C11	- C12	.	1.35 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C17	- C18	.	1.34 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C27	- C28	.	1.41 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C29	- C30	.	1.36 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C31	- C32	.	1.36 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C41	- C43	.	1.42 Ang.

PLAT360_ALERT_2_C	Short	C(sp3)-C(sp3) Bond	C53	- C54	.	1.41 Ang.
PLAT360_ALERT_2_C	Short	C(sp3)-C(sp3) Bond	C53	- C56	.	1.40 Ang.
PLAT360_ALERT_2_C	Short	C(sp3)-C(sp3) Bond	C65	- C66	.	1.38 Ang.
PLAT413_ALERT_2_C	Short	Inter XH3 .. XHn	H7B	..H24C	.	2.05 Ang.
				-x,-y,2-z =	2_557	Check
PLAT911_ALERT_3_C	Missing	FCF Refl Between Thmin & STh/L=	0.556			55 Report
PLAT913_ALERT_3_C	Missing	# of Very Strong Reflections in FCF				6 Note
PLAT976_ALERT_2_C	Check	Calcd Resid. Dens.	1.02A	From O3		-0.63 eA-3
PLAT977_ALERT_2_C	Check	Negative Difference Density on H15B				-0.34 eA-3
PLAT977_ALERT_2_C	Check	Negative Difference Density on H35A				-0.36 eA-3

Alert level G

FORMU01_ALERT_2_G There is a discrepancy between the atom counts in the
 _chemical_formula_sum and the formula from the _atom_site* data.
 Atom count from _chemical_formula_sum: C73 H187 Ag22 O33 P9 S26 V2
 Atom count from the _atom_site data: C69 H162 Ag22 O28 P9 S26 V2

CELLZ01_ALERT_1_G Difference between formula and atom_site contents detected.
 CELLZ01_ALERT_1_G ALERT: Large difference may be due to a
 symmetry error - see SYMMG tests
 From the CIF: _cell_formula_units_Z 2
 From the CIF: _chemical_formula_sum C73 H187 Ag22 O33 P9 S26 V2
 TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	146.00	138.00	8.00
H	374.00	324.00	50.00
Ag	44.00	44.00	0.00
O	66.00	56.00	10.00
P	18.00	18.00	0.00
S	52.00	52.00	0.00
V	4.00	4.00	0.00

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	14	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	80	Report
PLAT017_ALERT_1_G	Check Scattering Type Consistency of A14A as		AG
PLAT017_ALERT_1_G	Check Scattering Type Consistency of A15A as		AG
PLAT017_ALERT_1_G	Check Scattering Type Consistency of A18A as		AG
PLAT017_ALERT_1_G	Check Scattering Type Consistency of A22A as		AG
PLAT041_ALERT_1_G	Calc. and Reported SumFormula Strings Differ		Please Check
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	136.52	Why ?
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	4	Report
PLAT173_ALERT_4_G	The CIF-Embedded .res File Contains DANG Records	1	Report
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	1	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	3	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	1	Report
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature (K)	293	Check
PLAT200_ALERT_1_G	Reported _diffrn_ambient_temperature (K)	293	Check
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag14 --S21	19.0	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag15 --S14	5.3	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag18 --S15	10.0	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag22 --S26	6.0	s.u.
PLAT301_ALERT_3_G	Main Residue Disorder (Resd 1)		4% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 2)		100% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 3)		100% Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 2)	1.26	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 3)	0.74	Check
PLAT315_ALERT_2_G	Singly Bonded Carbon Detected (H-atoms Missing).	C101	Check

PLAT315_ALERT_2_G	Singly Bonded Carbon Detected (H-atoms Missing).	C102	Check
PLAT343_ALERT_2_G	Unusual sp3 Angle Range in Main Residue for	C17	Check
PLAT343_ALERT_2_G	Unusual sp3 Angle Range in Main Residue for	C33	Check
PLAT395_ALERT_2_G	Deviating X-O-Y Angle From 120 for O24	48.6	Degree
PLAT432_ALERT_2_G	Short Inter X...Y Contact O1W ..C102	2.14	Ang.
	1-x,1-y,1-z =	2_666	Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact O1W ..C101	2.59	Ang.
	1-x,1-y,1-z =	2_666	Check
PLAT606_ALERT_4_G	Solvent Accessible VOID(S) in Structure	!	Info
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	4	Note
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	5	Note
	O		
PLAT794_ALERT_5_G	Tentative Bond Valency for Ag20 (I) .	1.14	Info
PLAT794_ALERT_5_G	Tentative Bond Valency for V1 (V) .	5.12	Info
PLAT794_ALERT_5_G	Tentative Bond Valency for V2 (V) .	5.07	Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	375	Note
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed	!	Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .	Please	Do !
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	32%	Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...	1	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	3.6	Low
PLAT965_ALERT_2_G	The SHELXL WEIGHT Optimisation has not Converged	Please	Check
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
 16 **ALERT level B** = A potentially serious problem, consider carefully
 86 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
 48 **ALERT level G** = General information/check it is not something unexpected

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

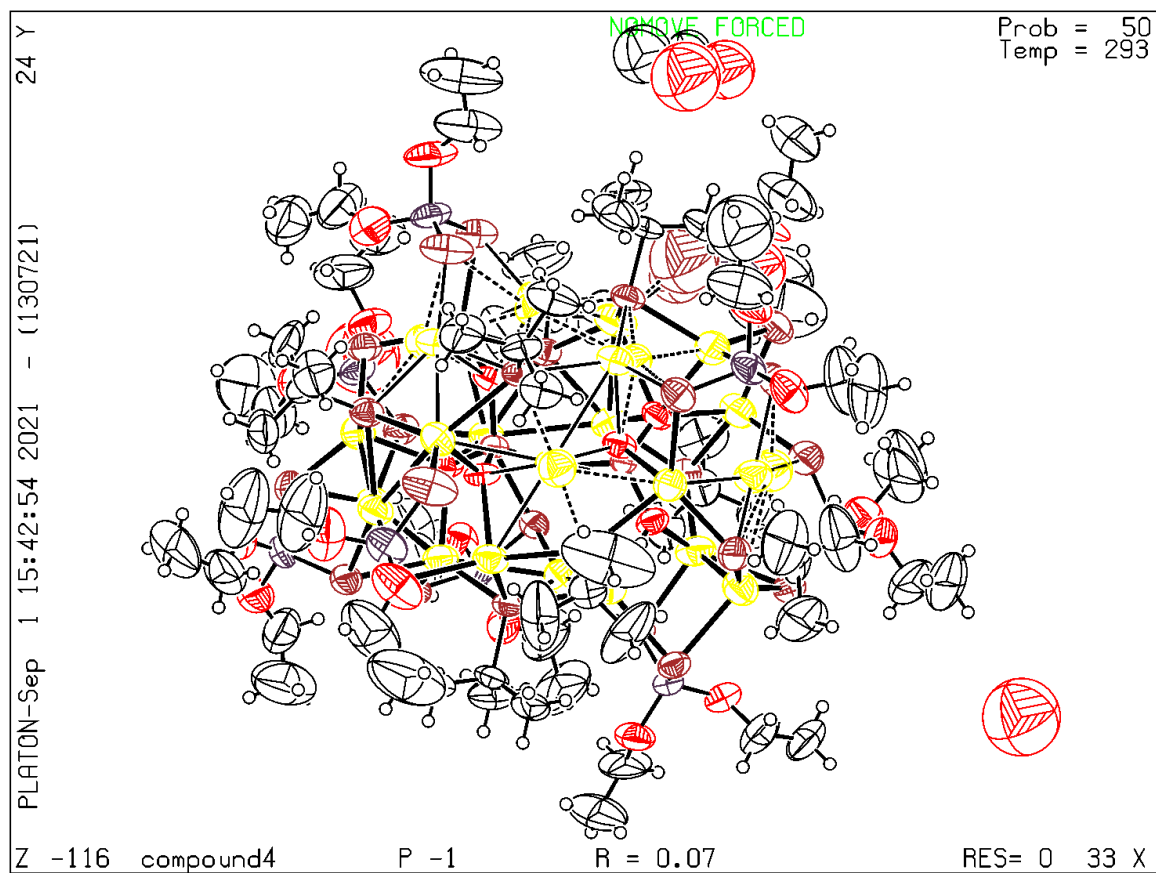
It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious 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.



checkCIF/PLATON report

Structure factors have been supplied for datablock(s) compound5

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: compound5

Bond precision:	C-C = 0.0415 A	Wavelength=0.71073
Cell:	a=18.3286(5)	b=18.3286(5) c=30.1460(17)
	alpha=90	beta=90 gamma=120
Temperature:	298 K	
	Calculated	Reported
Volume	8770.4(7)	8770.4(7)
Space group	P 63/m	P 63/m
Hall group	-P 6c	-P 6c
Moiety formula	C92 H171 Ag24.05 O21 P6 S26 W2 [+ solvent]	?
Sum formula	C92 H171 Ag24.05 O21 P6 S26 W2 [+ solvent]	C92 H210 Ag24 O21 P6 S26 W2
Mr	5594.73	5628.55
Dx, g cm ⁻³	2.119	2.131
Z	2	2
Mu (mm ⁻¹)	4.329	4.324
F000	5350.8	5424.0
F000'	5313.30	
h, k, lmax	20, 20, 33	20, 20, 33
Nref	4227	4213
Tmin, Tmax	0.641, 0.720	0.441, 0.746
Tmin'	0.629	

Correction method= # Reported T Limits: Tmin=0.441 Tmax=0.746

AbsCorr = MULTI-SCAN

Data completeness= 0.997

Theta(max)= 23.093

R(reflections)= 0.0845(3588)

wR2(reflections)=
0.2248(4213)

S = 0.958

Npar= 381

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 B

THETM01_ALERT_3_B The value of sine(theta_max)/wavelength is less than 0.575
Calculated sin(theta_max)/wavelength = 0.5519

PLAT201_ALERT_2_B Isotropic non-H Atoms in Main Residue(s) 3 Report
O4 C8 C12

PLAT213_ALERT_2_B Atom Ag4B has ADP max/min Ratio 4.7 prolat

PLAT220_ALERT_2_B NonSolvent Resd 1 Ag Ueq(max)/Ueq(min) Range 9.0 Ratio

PLAT242_ALERT_2_B Low 'MainMol' Ueq as Compared to Neighbors of O2 Check

PLAT315_ALERT_2_B Singly Bonded Carbon Detected (H-atoms Missing). C12 Check

PLAT315_ALERT_2_B Singly Bonded Carbon Detected (H-atoms Missing). C17 Check

PLAT342_ALERT_3_B Low Bond Precision on C-C Bonds 0.04154 Ang.

PLAT910_ALERT_3_B Missing # of FCF Reflection(s) Below Theta(Min). 12 Note

PLAT973_ALERT_2_B Check Calcd Positive Resid. Density on Ag1B 1.56 eA-3

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

SHFSU01_ALERT_2_C The absolute value of parameter shift to su ratio > 0.05
Absolute value of the parameter shift to su ratio given 0.056
Additional refinement cycles may be required.

PLAT080_ALERT_2_C Maximum Shift/Error 0.06 Why ?

PLAT213_ALERT_2_C Atom Ag3C has ADP max/min Ratio 3.6 prolat

PLAT213_ALERT_2_C Atom C3B has ADP max/min Ratio 3.2 oblate

PLAT220_ALERT_2_C NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range 3.1 Ratio

PLAT234_ALERT_4_C Large Hirshfeld Difference W1 --O2 . 0.16 Ang.

PLAT234_ALERT_4_C Large Hirshfeld Difference Ag2B --C6 . 0.22 Ang.

PLAT234_ALERT_4_C Large Hirshfeld Difference Ag3B --S1 . 0.18 Ang.

PLAT234_ALERT_4_C Large Hirshfeld Difference Ag3B --S5 . 0.22 Ang.

PLAT234_ALERT_4_C Large Hirshfeld Difference P1 --O3A . 0.23 Ang.

PLAT234_ALERT_4_C Large Hirshfeld Difference O3A --C16 . 0.24 Ang.

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of S2 Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of C6 Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of C12 Check

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of S1 Check

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of S4 Check

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of S5 Check

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of C1 Check

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of C8 Check

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of C10 Check

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of C13 Check

PLAT911_ALERT_3_C Missing FCF Refl Between Thmin & STh/L= 0.552 3 Report

PLAT918_ALERT_3_C Reflection(s) with I(obs) much Smaller I(calc) . 3 Check

PLAT973_ALERT_2_C Check Calcd Positive Resid. Density on Ag1A 1.44 eA-3

PLAT975_ALERT_2_C	Check Calcd Resid. Dens.	0.77A	From O1	1.01 eA-3
PLAT975_ALERT_2_C	Check Calcd Resid. Dens.	0.80A	From O1	0.89 eA-3
PLAT975_ALERT_2_C	Check Calcd Resid. Dens.	0.56A	From O1	0.75 eA-3

Alert level G

FORMU01_ALERT_2_G There is a discrepancy between the atom counts in the
 _chemical_formula_sum and the formula from the _atom_site* data.
 Atom count from _chemical_formula_sum: C92 H210 Ag24 O21 P6 S26 W2
 Atom count from the _atom_site data: C92 H174 Ag24.05100 O21 P6 S26 W
 CELLZ01_ALERT_1_G Difference between formula and atom_site contents detected.
 CELLZ01_ALERT_1_G WARNING: H atoms missing from atom site list. Is this intentional?
 From the CIF: _cell_formula_units_Z 2
 From the CIF: _chemical_formula_sum C92 H210 Ag24 O21 P6 S26 W2
 TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	184.00	184.00	0.00
H	420.00	348.00	72.00
Ag	48.00	48.10	-0.10
O	42.00	42.00	0.00
P	12.00	12.00	0.00
S	52.00	52.00	0.00
W	4.00	4.00	0.00

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	15	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	24	Report
PLAT041_ALERT_1_G	Calc. and Reported SumFormula Strings Differ		Please Check
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	339.23	Why ?
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	1	Report
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	4	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	2	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	2	Report
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag2A --S4 .	5.5	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag3A --S5 .	16.3	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag4A --S4 .	5.7	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag1A --S2 .	8.0	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag1B --S3 .	6.0	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag1C --S2 .	7.6	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag2B --S4 .	6.5	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag4B --S1 .	19.4	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag4B --S4 .	13.4	s.u.
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Ag5A --O1 .	5.4	s.u.
PLAT300_ALERT_4_G	Atom Site Occupancy of H6A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H6B Constrained at	0.5	Check
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 1)	33%	Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 1)	342.05	Check
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C13	Check
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C17	Check
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C5 - C6 .	1.56	Ang.
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C10 - C12 .	1.61	Ang.
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C13 - C14 .	1.58	Ang.
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C13 - C15 .	1.66	Ang.
PLAT395_ALERT_2_G	Deviating X-O-Y Angle From 120 for O4	61.2	Degree
PLAT605_ALERT_4_G	Largest Solvent Accessible VOID in the Structure	353	A**3
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	18	Note
PLAT721_ALERT_1_G	Bond Calc 0.97000, Rep 0.96000 Dev...	0.01	Ang.
	C3A -H3A1 1_555 1_555 #	92	Check

PLAT721_ALERT_1_G Bond	Calc	0.97000, Rep	0.96000 Dev...	0.01 Ang.
C2B	-H2B1	1_555	1_555	# 102 Check
PLAT721_ALERT_1_G Bond	Calc	0.97000, Rep	0.96000 Dev...	0.01 Ang.
C7	-H7C	1_555	1_555	# 122 Check
PLAT721_ALERT_1_G Bond	Calc	0.97000, Rep	0.96000 Dev...	0.01 Ang.
C11	-H11C	1_555	1_555	# 134 Check
PLAT721_ALERT_1_G Bond	Calc	0.97000, Rep	0.96000 Dev...	0.01 Ang.
C14	-H14C	1_555	1_555	# 141 Check
PLAT722_ALERT_1_G Angle	Calc	145.00, Rep	143.40 Dev...	1.60 Degree
AG2B	-C6	-H6C	1_555 1_555 1_555	# 340 Check
PLAT722_ALERT_1_G Angle	Calc	145.00, Rep	147.30 Dev...	2.30 Degree
AG2B	-C6	-H6C	8_556 1_555 1_555	# 341 Check
PLAT722_ALERT_1_G Angle	Calc	106.00, Rep	109.50 Dev...	3.50 Degree
H6A	-C6	-H6C	1_555 1_555 1_555	# 342 Check
PLAT722_ALERT_1_G Angle	Calc	113.00, Rep	109.50 Dev...	3.50 Degree
H6B	-C6	-H6C	1_555 1_555 1_555	# 343 Check
PLAT764_ALERT_4_G Overcomplete	CIF Bond List Detected (Rep/Expd)	.		1.34 Ratio
PLAT779_ALERT_4_G Suspect or Irrelevant	(Bond) Angle(s) in CIF ...			31.40 Deg.
O4	-P1	-C13	1_555 1_555 1_555	# 174 Check
PLAT779_ALERT_4_G Suspect or Irrelevant	(Bond) Angle(s) in CIF ...			42.60 Deg.
AG5B	-S4	-AG5B	8_556 1_555 1_555	# 210 Check
PLAT779_ALERT_4_G Suspect or Irrelevant	(Bond) Angle(s) in CIF ...			31.90 Deg.
AG2B	-S4	-AG2B	8_556 1_555 1_555	# 235 Check
PLAT779_ALERT_4_G Suspect or Irrelevant	(Bond) Angle(s) in CIF ...			33.50 Deg.
AG2B	-S5	-AG2B	8_556 1_555 1_555	# 251 Check
PLAT779_ALERT_4_G Suspect or Irrelevant	(Bond) Angle(s) in CIF ...			41.60 Deg.
AG5B	-S5	-AG5B	4_565 1_555 11_566	# 262 Check
PLAT779_ALERT_4_G Suspect or Irrelevant	(Bond) Angle(s) in CIF ...			35.90 Deg.
AG2B	-C6	-AG2B	1_555 1_555 8_556	# 331 Check
PLAT779_ALERT_4_G Suspect or Irrelevant	(Bond) Angle(s) in CIF ...			37.90 Deg.
AG2B	-C6	-H6B	1_555 1_555 1_555	# 336 Check
PLAT779_ALERT_4_G Suspect or Irrelevant	(Bond) Angle(s) in CIF ...			34.60 Deg.
AG2B	-C12	-AG2B	8_556 1_555 1_555	# 376 Check
PLAT779_ALERT_4_G Suspect or Irrelevant	(Bond) Angle(s) in CIF ...			36.80 Deg.
O4	-C13	-P1	1_555 1_555 1_555	# 380 Check
PLAT794_ALERT_5_G Tentative Bond Valency for W1	(VI)	.		6.06 Info
PLAT811_ALERT_5_G No ADDSYM Analysis: Too Many Excluded Atoms	....			! Info
PLAT860_ALERT_3_G Number of Least-Squares Restraints	.....			181 Note
PLAT869_ALERT_4_G ALERTS Related to the Use of SQUEEZE Suppressed				! Info
PLAT883_ALERT_1_G No Info/Value for _atom_sites_solution_primary	.			Please Do !
PLAT909_ALERT_3_G Percentage of I>2sig(I) Data at Theta(Max) Still				77% Note
PLAT913_ALERT_3_G Missing # of Very Strong Reflections in FCF	....			3 Note
PLAT965_ALERT_2_G The SHELXL WEIGHT Optimisation has not Converged				Please Check
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
 10 **ALERT level B** = A potentially serious problem, consider carefully
 28 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
 62 **ALERT level G** = General information/check it is not something unexpected

14 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 49 ALERT type 2 Indicator that the structure model may be wrong or deficient
 9 ALERT type 3 Indicator that the structure quality may be low
 26 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.

