

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 4b, 4c, 4d, 5

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: 4b

Bond precision:	C-C = 0.0087 Å	Wavelength=0.71073
Cell:	a=13.499(5)	b=21.049(8) c=19.661(7)
	alpha=90	beta=100.305(5) gamma=90
Temperature:	153 K	
	Calculated	Reported
Volume	5496(4)	5496(4)
Space group	P 21/n	P 21/n
Hall group	-P 2yn	-P 2yn
Moiety formula	C54 H88 Ga N6 Na O3	?
Sum formula	C54 H88 Ga N6 Na O3	C54 H92 Ga N6 Na O3
Mr	962.01	966.04
Dx,g cm-3	1.163	1.167
Z	4	4
Mu (mm-1)	0.554	0.554
F000	2080.0	2096.0
F000'	2081.61	
h,k,lmax	16,25,23	16,25,23
Nref	9927	9806
Tmin,Tmax	0.895,0.905	0.141,0.745
Tmin'	0.895	

Correction method= # Reported T Limits: Tmin=0.141 Tmax=0.745
AbsCorr = MULTI-SCAN

Data completeness= 0.988 Theta(max)= 25.229

R(reflections)= 0.0794(8055) wR2(reflections)= 0.2123(9806)

S = 1.164 Npar= 610

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

PLAT041_ALERT_1_C	Calc. and Reported SumFormula	Strings Differ	Please Check
PLAT043_ALERT_1_C	Calculated and Reported Mol. Weight Differ by ..	4.03	Check
PLAT068_ALERT_1_C	Reported F000 Differs from Calcd (or Missing)...		Please Check
PLAT220_ALERT_2_C	NonSolvent Resd 1 C Ueq(max) / Ueq(min) Range	5.2	Ratio
PLAT222_ALERT_3_C	NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range	4.3	Ratio
PLAT234_ALERT_4_C	Large Hirshfeld Difference C44 --C45	0.20	Ang.
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of	C43	Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of	C50	Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of	O1	Check
PLAT329_ALERT_4_C	Carbon Atom Hybridisation Unclear for		C45 Check
PLAT329_ALERT_4_C	Carbon Atom Hybridisation Unclear for		C46A Check
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds	0.00874	Ang.
PLAT410_ALERT_2_C	Short Intra H...H Contact H31 ..H34	1.91	Ang.
	x,y,z =	1.555	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.600	121 Report
PLAT975_ALERT_2_C	Check Calcd Resid. Dens. 1.06A From C45A	0.66	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H44A	-0.36	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H47B	-0.32	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H52A	-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: C54 H92 Ga1 N6 Na1 O3
Atom count from the _atom_site data: C54 H88 Ga1 N6 Na1 O3

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 C54 H92 Ga N6 Na O3
TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	216.00	216.00	0.00
H	368.00	352.00	16.00
Ga	4.00	4.00	0.00
N	24.00	24.00	0.00
Na	4.00	4.00	0.00
O	12.00	12.00	0.00

PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT	Unusually Large	26.67	Why ?
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records		2	Report
PLAT300_ALERT_4_G	Atom Site Occupancy of C45	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C45A	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C46	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C46A	Constrained at	0.5	Check
PLAT301_ALERT_3_G	Main Residue Disorder	(Resd 1)	3%	Note
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C43 - C44		1.51	Ang.
PLAT773_ALERT_2_G	Check long C-C Bond in CIF: C45 --C46A		1.85	Ang.
PLAT773_ALERT_2_G	Check long C-C Bond in CIF: C46 --C45A		1.71	Ang.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF . #		222	Check
	C46 -C45 -C46A	1.555 1.555 1.555	26.60	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF . #		228	Check
	C45 -C46 -C45A	1.555 1.555 1.555	35.30	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF . #		279	Check
	C46A -C45A -C46	1.555 1.555 1.555	29.30	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF . #		285	Check
	C45A -C46A -C45	1.555 1.555 1.555	32.60	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF . #		316	Check
	C46A -O1 -C46	1.555 1.555 1.555	33.30	Deg.
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still		68%	Note

PLAT933_ALERT_2_G Number of OMIT Records in Embedded .res File ... 6 Note
 PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density. 1 Info

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

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

Datablock: 4c

Bond precision: C-C = 0.0090 A Wavelength=0.71073

Cell: a=20.165(5) b=15.683(3) c=22.026(5)
 alpha=90 beta=109.960(3) gamma=90

Temperature: 153 K

	Calculated	Reported
Volume	6547(3)	6547(3)
Space group	P 21/n	P 21/n
Hall group	-P 2yn	-P 2yn
Moiety formula	C66 H108 Ga N6 Na O3	?
Sum formula	C66 H108 Ga N6 Na O3	C66 H108 Ga N6 Na O3
Mr	1126.30	1126.29
Dx,g cm-3	1.143	1.143
Z	4	4
Mu (mm-1)	0.474	0.474
F000	2448.0	2448.0
F000'	2449.73	
h,k,lmax	23,18,25	23,18,25
Nref	11209	11048
Tmin,Tmax	0.892,0.910	0.257,0.745
Tmin'	0.847	

Correction method= # Reported T Limits: Tmin=0.257 Tmax=0.745
 AbsCorr = MULTI-SCAN

Data completeness= 0.986 Theta(max)= 24.761

R(reflections)= 0.0645(6076) wR2(reflections)= 0.1525(11048)

S = 1.066 Npar= 706

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

PLAT220_ALERT_2_B	NonSolvent Resd 1	C	Ueq(max) / Ueq(min) Range	6.5	Ratio
PLAT410_ALERT_2_B	Short Intra H...H Contact	H36	..H42	1.88	Ang.
			x,y,z =	1_555	Check

● Alert level C

THETM01_ALERT_3_C	The value of sine(theta_max)/wavelength is less than 0.590				
	Calculated sin(theta_max)/wavelength = 0.5893				
PLAT222_ALERT_3_C	NonSolvent Resd 1	H	Uiso(max)/Uiso(min) Range	6.2	Ratio
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C36	--C37	5.2	s.u.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C38	--C39	0.16	Ang.
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of			C51	Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of			C53	Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of			C57	Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of			C60	Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of			C61	Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of			C63	Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of			C65	Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			03	Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C14	Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C23	Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C36	Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C42	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			C52	Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C59	Check
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds			0.00898	Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C61	- C62	1.37	Ang.
PLAT905_ALERT_3_C	Negative K value in the Analysis of Variance ...			-0.495	Report
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.589		158	Report
PLAT978_ALERT_2_C	Number C-C Bonds with Positive Residual Density.			0	Info

● Alert level G

PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT	Unusually Large	8.00	Why ?
PLAT650_ALERT_4_G	SWAT Instruction Used to Model Solvent Disorder			! Report
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).			3 Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...			43 Note
PLAT992_ALERT_5_G	Repd & Actual _reflns_number_gt Values Differ by			2 Check

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- 24 **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

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

Datablock: 4d

Bond precision: C-C = 0.0082 A Wavelength=0.71073

Cell: a=20.293(12) b=13.197(8) c=26.694(16)
alpha=90 beta=98.225(8) gamma=90

Temperature: 153 K

	Calculated	Reported
Volume	7075(7)	7076(7)
Space group	P 21/c	P 21/c
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C70 H116 Ga K N6 O4	?
Sum formula	C70 H116 Ga K N6 O4	C70 H116 Ga K N6 O4
Mr	1214.52	1214.50
Dx,g cm-3	1.140	1.140
Z	4	4
Mu (mm-1)	0.496	0.496
F000	2640.0	2640.0
F000'	2642.49	
h,k,lmax	24,15,31	24,15,31
Nref	12657	12467
Tmin,Tmax	0.888,0.910	0.413,0.745
Tmin'	0.883	

Correction method= # Reported T Limits: Tmin=0.413 Tmax=0.745
AbsCorr = MULTI-SCAN

Data completeness= 0.985 Theta(max)= 25.140

R(reflections)= 0.0597(7992) wR2(reflections)= 0.1903(12467)

S = 1.126 Npar= 749

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	O3	--C66	.	7.2 s.u.
PLAT410_ALERT_2_B	Short Intra H...H Contact	H31	..H37	.	1.85 Ang.
			x,y,z =	1_555	Check



Alert level C

PLAT220_ALERT_2_C	NonSolvent Resd 1	C	Ueq(max) / Ueq(min)	Range	4.8 Ratio
PLAT222_ALERT_3_C	NonSolvent Resd 1	H	Uiso(max)/Uiso(min)	Range	4.3 Ratio
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C60	--C61	.	5.6 s.u.

PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C69	--C70	.	5.3 s.u.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	O2	--C62	.	0.17 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C61	--C62	.	0.21 Ang.
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of				O2 Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of				C47 Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of				C55 Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of				C58 Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of				C62 Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of				C63 Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of				C65 Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of				C66 Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of				C69 Check
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of				C70 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of				K1 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of				O3 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of				O4 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of				C11 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of				C23 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				C64 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of				C68 Check
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds				0.00819 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C55	- C56	.	1.38 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C57	- C58	.	1.41 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C60	- C61	.	1.36 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C64	- C65	.	1.39 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C67	- C69	.	1.36 Ang.
PLAT411_ALERT_2_C	Short Inter H...H Contact	H39B	..H69A	.	2.05 Ang.
			1-x,-1/2+y,3/2-z =		2_646 Check
PLAT905_ALERT_3_C	Negative K value in the Analysis of Variance ...				-2.268 Report
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.598			189 Report
PLAT978_ALERT_2_C	Number C-C Bonds with Positive Residual Density.				0 Info



Alert level G

PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF . #	273 Check
	K1 -C53 -H53B 1.555 1.555 1.555	28.50 Deg.
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	32% Note
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).	1 Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...	9 Note

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 - 34 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
 - 4 **ALERT level G** = General information/check it is not something unexpected

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

Datablock: 5

Bond precision: C-C = 0.0085 A

Wavelength=0.71073

Cell: a=13.577(2) b=13.777(2) c=18.806(3)
 alpha=83.432(2) beta=89.491(2) gamma=89.466(2)
 Temperature: 123 K

	Calculated	Reported
Volume	3494.3(9)	3494.3(11)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C61 H89 Ga N4 Na O2 [+ solvent]	?
Sum formula	C61 H89 Ga N4 Na O2 [+ solvent]	C68 H98 Ga N4 Na O2
Mr	1003.07	1096.21
Dx, g cm ⁻³	0.953	1.042
Z	2	2
Mu (mm ⁻¹)	0.436	0.441
F000	1082.0	1184.0
F000'	1082.82	
h,k,lmax	16,16,22	16,16,22
Nref	12323	11929
Tmin,Tmax	0.896,0.916	0.439,0.745
Tmin'	0.896	

Correction method= # Reported T Limits: Tmin=0.439 Tmax=0.745
 AbsCorr = MULTI-SCAN

Data completeness= 0.968 Theta(max)= 25.005

R(reflections)= 0.0662(8830) wR2(reflections)= 0.1658(11929)

S = 1.170 Npar= 631

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

PLAT220_ALERT_2_B NonSolvent Resd 1 C Ueq(max) / Ueq(min) Range	7.9 Ratio
PLAT230_ALERT_2_B Hirshfeld Test Diff for C54 --C55 .	7.4 s.u.
PLAT241_ALERT_2_B High MainMol Ueq as Compared to Neighbors of	C56 Check
PLAT241_ALERT_2_B High MainMol Ueq as Compared to Neighbors of	C58 Check
PLAT241_ALERT_2_B High MainMol Ueq as Compared to Neighbors of	C61 Check
PLAT242_ALERT_2_B Low MainMol Ueq as Compared to Neighbors of	O2 Check
PLAT990_ALERT_1_B Deprecated .res/.hkl Input Style SQUEEZE Job ...	! Note



Alert level C

PLAT029_ALERT_3_C _diffn_measured_fraction_theta_full value Low .	0.968 Why?
PLAT222_ALERT_3_C NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range	4.5 Ratio
PLAT234_ALERT_4_C Large Hirshfeld Difference O2 --C61 .	0.22 Ang.
PLAT234_ALERT_4_C Large Hirshfeld Difference C14 --C16 .	0.18 Ang.

PLAT234_ALERT_4_C	Large Hirshfeld Difference C55	--C56	.	0.24 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C56	--C57	.	0.19 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C59	--C60	.	0.21 Ang.
PLAT241_ALERT_2_C	High MainMol Ueq as Compared to Neighbors of			C55 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			Na1 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			O1 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C11 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C14 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C23 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C26 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C36 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C39 Check
PLAT242_ALERT_2_C	Low MainMol Ueq as Compared to Neighbors of			C48 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			C57 Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including	Ga1		0.104 Check
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds			0.00854 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond C54	- C55	.	1.38 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond C55	- C56	.	1.38 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond C59	- C60	.	1.42 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond C60	- C61	.	1.42 Ang.
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & Sth/L=	0.595		392 Report
PLAT918_ALERT_3_C	Reflection(s) with I(obs) much Smaller I(calc)			2 Check
PLAT934_ALERT_3_C	Number of (Iobs-Icalc)/Sigma(W) > 10 Outliers ..			1 Check
PLAT977_ALERT_2_C	Check Negative Difference Density on H61A			-0.32 eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H61B			-0.36 eA-3
PLAT978_ALERT_2_C	Number C-C Bonds with Positive Residual Density.			0 Info

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: C68 H98 Ga1 N4 Na1 O2

Atom count from the _atom_site data: C61 H89 Ga1 N4 Na1 O2

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 C68 H98 Ga N4 Na O2

TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	136.00	122.00	14.00
H	196.00	178.00	18.00
Ga	2.00	2.00	0.00
N	8.00	8.00	0.00
Na	2.00	2.00	0.00
O	4.00	4.00	0.00

PLAT013_ALERT_1_G	N.O.K. _shelx_hkl_checksum Found in CIF	Please Check
PLAT041_ALERT_1_G	Calc. and Reported SumFormula Strings Differ	Please Check
PLAT068_ALERT_1_G	Reported F000 Differs from Calcd (or Missing)...	Please Check
PLAT152_ALERT_1_G	The Supplied and Calc. Volume s.u. Differ by ...	-2 Units
PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)	0.002 Degree
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records	1 Report
PLAT606_ALERT_4_G	VERY LARGE Solvent Accessible VOID(S) in Structure	! Info
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed	! Info
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	49% Note
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).	3 Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...	9 Note
PLAT961_ALERT_5_G	Dataset Contains no Negative Intensities	Please Check
PLAT992_ALERT_5_G	Repd & Actual _reflns_number_gt Values Differ by	1 Check

0	ALERT level A	= Most likely a serious problem - resolve or explain
7	ALERT level B	= A potentially serious problem, consider carefully
31	ALERT level C	= Check. Ensure it is not caused by an omission or oversight
16	ALERT level G	= General information/check it is not something unexpected
8	ALERT type 1	CIF construction/syntax error, inconsistent or missing data
28	ALERT type 2	Indicator that the structure model may be wrong or deficient
8	ALERT type 3	Indicator that the structure quality may be low
8	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.







