

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: 250421_zn_wb4ga

Bond precision:	C-C = 0.0067 Å	Wavelength=1.34139
Cell:	a=13.440 (4)	b=14.183 (5) c=14.856 (7)
	alpha=90.51 (5)	beta=100.64 (4) gamma=116.401 (19)
Temperature:	170 K	
	Calculated	Reported
Volume	2479.5 (18)	2479.7 (17)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C74 H112 Ga4 N8, 4 (C7 H8)	C74 H112 Ga4 N8, 4 (C7 H8)
Sum formula	C102 H144 Ga4 N8	C102 H144 Ga4 N8
Mr	1761.13	1761.12
Dx, g cm ⁻³	1.179	1.179
Z	1	1
Mu (mm ⁻¹)	1.046	1.077
F000	936.0	936.0
F000'	929.76	
h,k,lmax	16,17,17	16,17,17
Nref	9160	9043
Tmin,Tmax	0.962,0.968	0.653,0.751
Tmin'	0.948	

Correction method= # Reported T Limits: Tmin=0.653 Tmax=0.751
AbsCorr = MULTI-SCAN

Data completeness= 0.987 Theta(max)= 54.148

R(reflections)= 0.0663 (6301)	wR2(reflections)= 0.1835 (9043)
S = 1.110	Npar= 650

```
test-name_ALERT_alert-type_alert-level.
```

● Alert level C

- Alert level G

ABSMU01_ALERT_1_G	Calculation of _exptl_absorpt_correction_mu not performed for this radiation type.		
PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	32	Note
PLAT003_ALERT_2_G	Number of Uiso or U(i,j) Restrained non-H-Atoms	28	Report
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records	1	Report
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	32	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	3	Report
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used	0.0200	Report
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used	0.0200	Report
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used	0.0200	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
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PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)	2%	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
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 4)	100%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 5)	100%	Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 2)	12.27	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 3)	13.11	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 4)	2.73	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 5)	1.89	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp ²)-Methyl Moiety	C51	Check
PLAT413_ALERT_2_G	Short Inter XH3 .. XHn H13A ..H51F .	1.93	Anq.

PLAT413_ALERT_2_G	Short Inter XH3 .. XHn	H13B	x, -1+y, z =	1_545	Check
			..H51F	.	1.54 Ang.
PLAT413_ALERT_2_G	Short Inter XH3 .. XHn	H13C	x, -1+y, z =	1_545	Check
			..H51F	.	2.10 Ang.
PLAT432_ALERT_2_G	Short Inter X...Y Contact	C13	x, -1+y, z =	1_545	Check
			..C51A	.	2.82 Ang.
			x, -1+y, z =	1_545	Check
PLAT722_ALERT_1_G	Angle Calc	122.00, Rep	120.90 Dev...	1.10	Degree
	C40A -C41A -H41A	1_555	1_555 1_555	# 254	Check
PLAT811_ALERT_5_G	No ADDSYM Analysis: Too Many Excluded Atoms				! Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints				476 Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File				24 Note
	-15 12 6, -14 12 7, -11 15 5, -11 16 3, -11 16 4, -8 17 1,				
	-7 2 1, -7 17 1, -6 1 0, -6 17 0, -6 17 1, -5 16 2,				
	-1-14 4, -1 1 0, 0 0 1, 0 1 0, 0 1 2, 1 0 0,				
	2-16 1, 2 -1 1, 2 4 3, 9-11 1, 10-10 11, 13-10 6,				
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity				2.9 Low

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

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

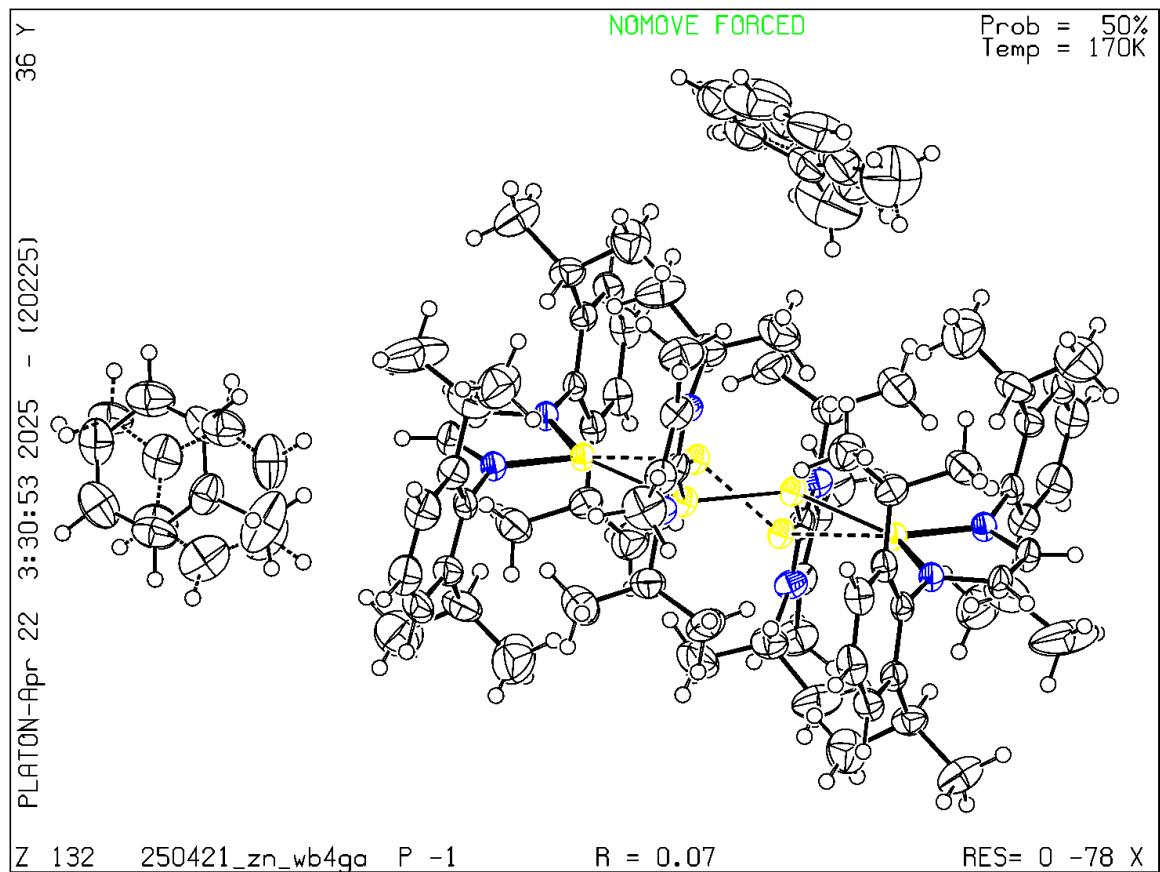
It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious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



R(reflections)= 0.0853(5412)	wR2(reflections)= 0.1943(8623)
S = 1.072	Npar= 427

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

RINTA01_ALERT_3_C The value of Rint is greater than 0.12
Rint given 0.143

PLAT020_ALERT_3_C	The Value of Rint is Greater Than 0.12	0.143	Report
PLAT041_ALERT_1_C	Calc. and Reported SumFormula Strings Differ		Please Check
PLAT042_ALERT_1_C	Calc. and Reported MoietyFormula Strings Differ		Please Check
PLAT234_ALERT_4_C	Large Hirshfeld Difference C21 --C22	0.20	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C21 --C22A	0.21	Ang.
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C30	Check
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds	0.0099	Ang.
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance	16.535	Check
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance	2.909	Check

Alert level G

FORMU01_ALERT_1_G There is a discrepancy between the atom counts in the
_chemical_formula_sum and _chemical_formula_moiety. This is
usually due to the moiety formula being in the wrong format.
Atom count from _chemical_formula_sum: C74 H115.2599 Ga4 N8
Atom count from _chemical_formula_moiety:C74 H115.2469 Ga4 N8

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:C74 H115.2599 Ga4 N8
Atom count from the _atom_site data: C74 H115.2460 Ga4 N8

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	5	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	5	Report
PLAT068_ALERT_1_G	Reported F000 Differs from Calcd (or Missing)...		Please Check
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	14.78	Why ?
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records	1	Report
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	2	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	1	Report
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used	0.0200	Report
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)	7%	Note
PLAT303_ALERT_2_G	Full Occupancy Atom H35 with # Connections	1.12	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 1)	201.25	Check
PLAT367_ALERT_2_G	Long? C(sp?)-C(sp?) Bond C16 - C21	1.52	Ang.
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	44	Note
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).	3	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	11	Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	1	Info

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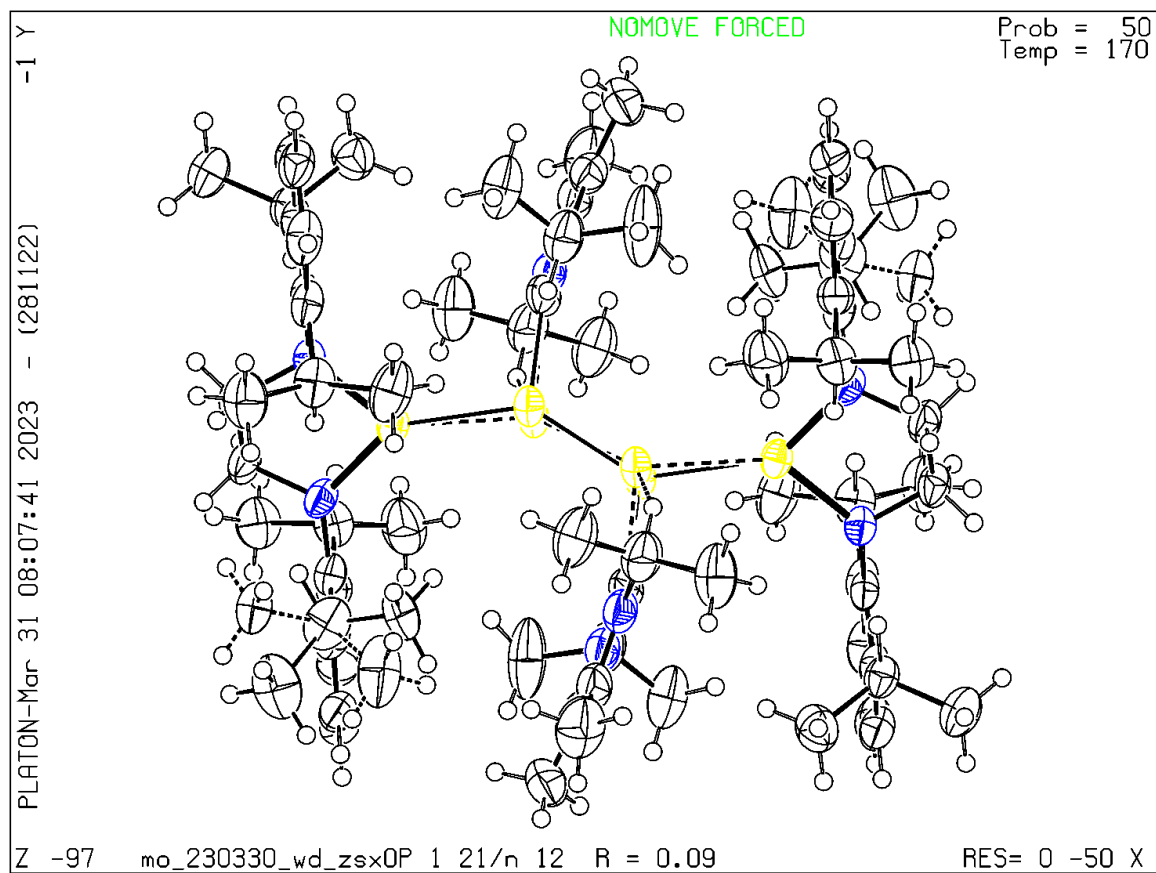
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PLATON version of 28/11/2022; check.def file version of 28/11/2022



checkCIF/PLATON report

Structure factors have been supplied for datablock(s) mo_220527_wb0524_tolh_0m

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No syntax errors found. CIF dictionary Interpreting this report

Datablock: mo_220527_wb0524_tolh_0m

Bond precision:	C-C = 0.0033 A	Wavelength=0.71073	
Cell:	a=12.6105 (4)	b=15.4880 (5)	c=18.2307 (5)
	alpha=90	beta=90	gamma=90
Temperature:	170 K		
	Calculated	Reported	
Volume	3560.66 (19)	3560.66 (19)	
Space group	P 21 21 21	P 21 21 21	
Hall group	P 2ac 2ab	P 2ac 2ab	
Moiety formula	C37 H57 Ga N4	C37 H57 Ga N4	
Sum formula	C37 H57 Ga N4	C37 H57 Ga N4	
Mr	627.59	627.58	
Dx, g cm ⁻³	1.171	1.171	
Z	4	4	
Mu (mm ⁻¹)	0.802	0.802	
F000	1352.0	1352.0	
F000'	1353.21		
h, k, lmax	16, 19, 23	16, 19, 23	
Nref	7865 [4373]	7852	
Tmin, Tmax	0.721, 0.786	0.628, 0.746	
Tmin'	0.674		

Correction method= # Reported T Limits: Tmin=0.628 Tmax=0.746
AbsCorr = MULTI-SCAN

Data completeness= 1.80/1.00 Theta (max)= 27.107

R(reflections)= 0.0222 (7451)	wR2(reflections)=
S = 1.034	0.0534 (7852)
Npar= 396	

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

PLAT242_ALERT_2_C	Low	'MainMol' Ueq as Compared to Neighbors of	C12 Check
PLAT410_ALERT_2_C	Short Intra H...H Contact	H24 ..H30 .	1.98 Ang.
		x,y,z =	1_555 Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.600	4 Report



Alert level G

PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).	1 Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	3 Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File	5 Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	11 Info

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 - 1 ALERT type 4 Improvement, methodology, query or suggestion
 - 0 ALERT type 5 Informative message, check
-
-

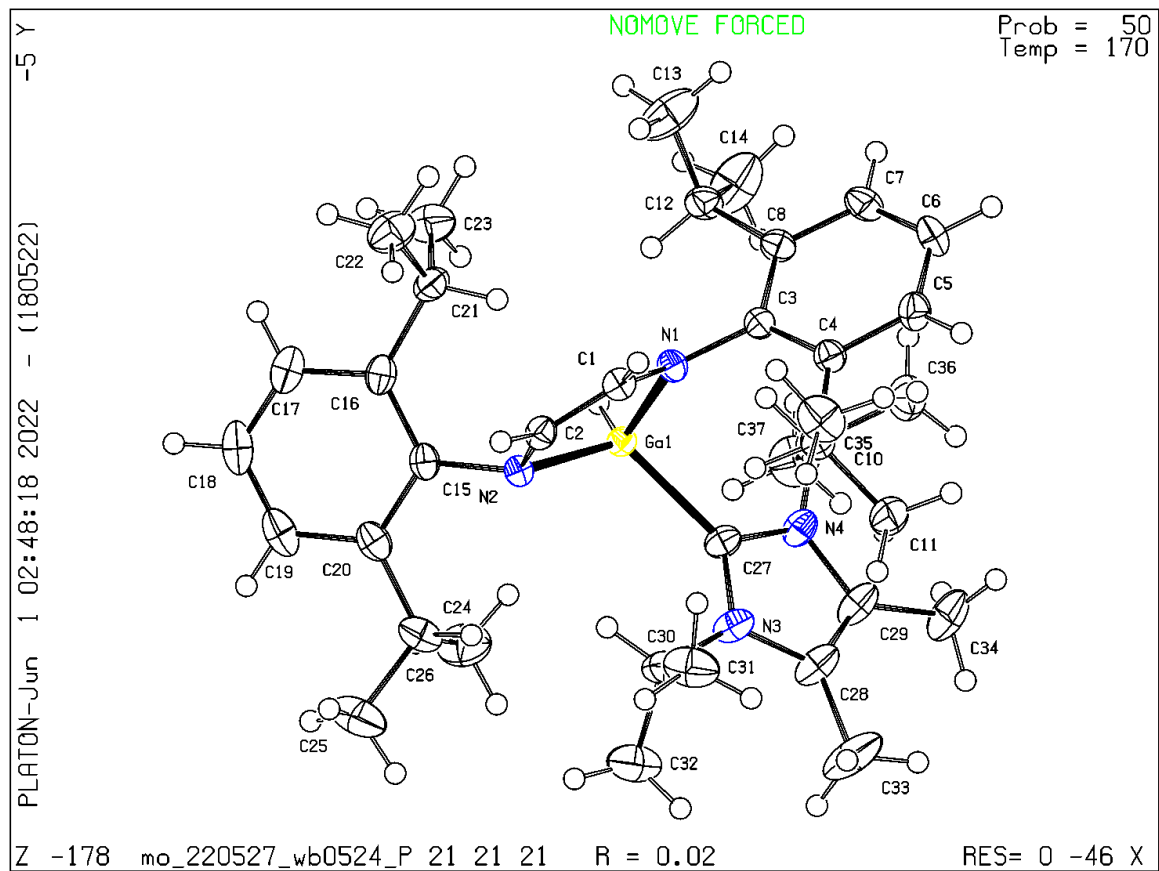
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```
R(reflections)= 0.0443( 6716)      wR2(reflections)=
S = 1.032                        0.1282( 8105)
Npar= 393
```

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

PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	2.54	Report
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C21	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.600	3	Report
PLAT971_ALERT_2_C	Check Calcd Resid. Dens. 1.63Ang From C27	1.63	eA-3



Alert level G

PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).	2	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	25	Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File	3	Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	9	Info

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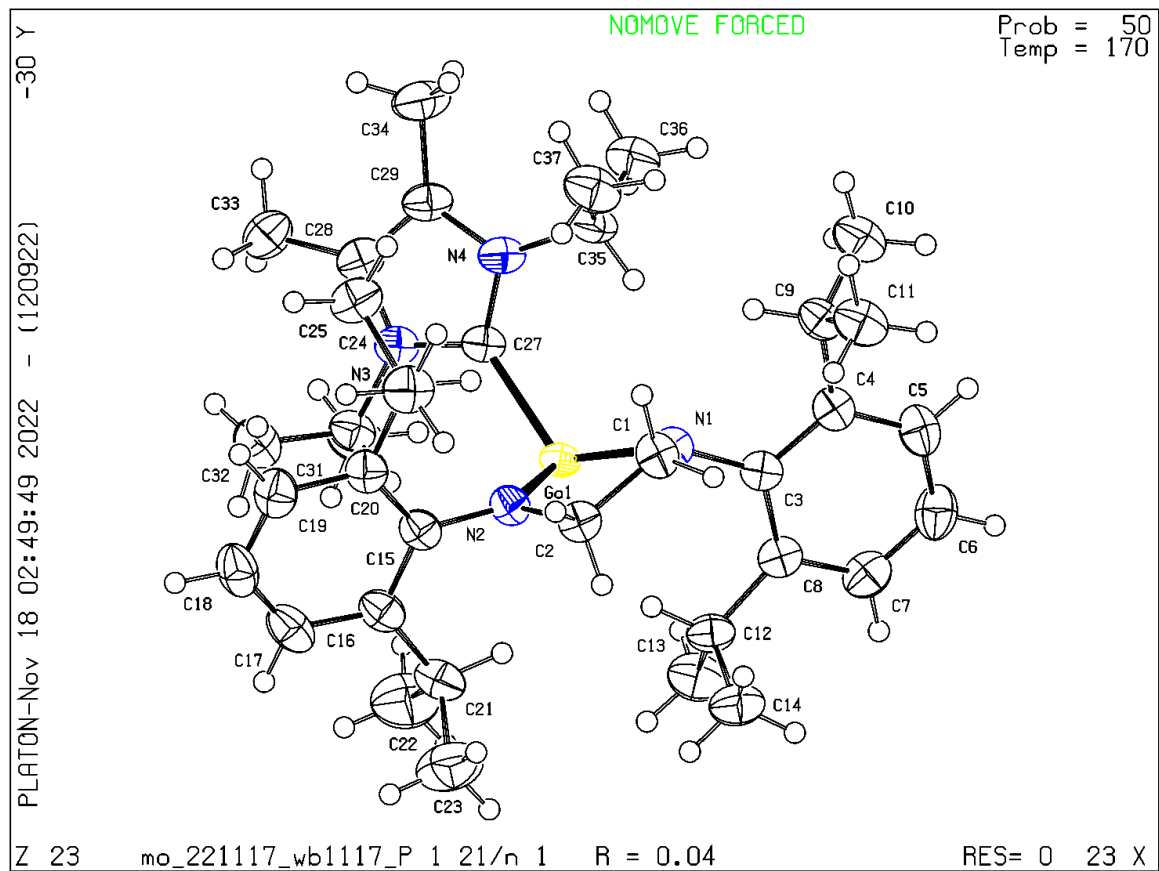
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checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

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No syntax errors found. CIF dictionary Interpreting this report

Datablock: 241119_zn1118_wb4gai2

Bond precision: C-C = 0.0064 Å

Wavelength=1.34139

Cell: a=13.166 (3) b=14.419 (3) c=44.430 (19)
 alpha=91.50 (3) beta=94.888 (12) gamma=95.940 (12)
Temperature: 170 K

	Calculated	Reported
Volume	8354 (4)	8354 (4)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C74 H112 Ga4 I2 N8, C7 H8	C74 H112 Ga4 I2 N8, C7 H8
Sum formula	C81 H120 Ga4 I2 N8	C81 H120 Ga4 I2 N8
Mr	1738.54	1738.52
Dx, g cm ⁻³	1.382	1.382
Z	4	4
Mu (mm ⁻¹)	5.182	5.183
F000	3568.0	3568.0
F000'	3542.40	
h,k,lmax	17,18,58	17,18,57
Nref	38987	38231
Tmin,Tmax	0.830,0.856	0.680,0.752
Tmin'	0.772	

Correction method= # Reported T Limits: Tmin=0.680 Tmax=0.752
AbsCorr = MULTI-SCAN

Data completeness= 0.981

Theta(max)= 61.190

R(reflections)= 0.0505 (28262)

wR2(reflections)=
0.1270 (38231)

S = 1.054

Npar= 1817

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

PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	2.35	Report
PLAT220_ALERT_2_C	NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range	4.4	Ratio
PLAT220_ALERT_2_C	NonSolvent Resd 2 C Ueq(max)/Ueq(min) Range	5.2	Ratio
PLAT222_ALERT_3_C	NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range	4.5	Ratio
PLAT222_ALERT_3_C	NonSolvent Resd 2 H Uiso(max)/Uiso(min) Range	4.8	Ratio
PLAT234_ALERT_4_C	Large Hirshfeld Difference C5 --C147 .	0.19	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C67 --C147 .	0.17	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C77 --C141 .	0.21	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C155 --C161 .	0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C157 --C159 .	0.18	Ang.
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of C63		Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of C119		Check
PLAT243_ALERT_4_C	High 'Solvent' Ueq as Compared to Neighbors of C159		Check
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of C141		Check
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of C155		Check
PLAT250_ALERT_2_C	Large U3/U1 Ratio for <U(i,j)> Tensor(Resd 4)	2.9	Note
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including C77	0.143	Check
PLAT362_ALERT_2_C	Short C(sp3)-C(sp2) Bond C155 - C161 .	1.36	Ang.

● Alert level G

ABSMU01_ALERT_1_G	Calculation of _exptl_absorpt_correction_mu not performed for this radiation type.		
PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	16	Note
PLAT003_ALERT_2_G	Number of Uiso or U(i,j) Restrained non-H-Atoms	21	Report
PLAT012_ALERT_1_G	No _shelx_res_checksum Found in CIF	Please	Check
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	12	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	3	Report
PLAT180_ALERT_4_G	Check Cell Rounding: # of Values Ending with 0 =	3	Note
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used	0.0200	Report
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used	0.0200	Report
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used	0.0200	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0400	Report
PLAT231_ALERT_4_G	Hirshfeld Test (Solvent) C47 --C67 .	5.4	s.u.
PLAT231_ALERT_4_G	Hirshfeld Test (Solvent) C73 --C143 .	7.0	s.u.
PLAT231_ALERT_4_G	Hirshfeld Test (Solvent) C141 --C151 .	7.6	s.u.
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)	7%	Note
PLAT412_ALERT_2_G	Short Intra XH3 .. XHn H21 ..H79C .	2.13	Ang.
	x,y,z =	1_555	Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	3	Note
	H1AA H1AB H1AC		
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	3	Note
	C7 H8		
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	4	Note

C7 H8

PLAT860_ALERT_3_G	Number of Least-Squares Restraints	211	Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File	200	Note

```

-3  6  7,  -2  3 11,   1 -3  2,   0  0  2,   2  0  2,   2 -2 14,
  2 -1 11,  -4  1  1,   2 -4  4,  -1  0  1,  -1  1  8,   0 -1  1,
  1  4  7,   2  1 11,  -2 -1  1, -17  3  0,  -3  1  6,   4  2  2,
  4 -1  1,   2 -2 10,  -1 -4 11,  -2 -4 14,  -2  1 13,  -3  0 13,
 -3  0 17,   6 -2  8,   2  2  6,  -2  3  3,   0  0 24,   0  0 14,
 -5  0  3,   1 -6  3,   2 -3  9,   1  3 12,  -3  1 18,   0 -5  7,
 -4  5 11,  -5 -1 12,  -6  3  3,   3 -3  4,  -3  1 12,   4  4  0,
 -4  1 17,   2  6  2,   4  3  3,   1  4  1,  -1 -1  8,   1 -7  2,
 -3 -4  5,   6  0  6,

```

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

2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 12 ALERT type 2 Indicator that the structure model may be wrong or deficient
 13 ALERT type 3 Indicator that the structure quality may be low
 18 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

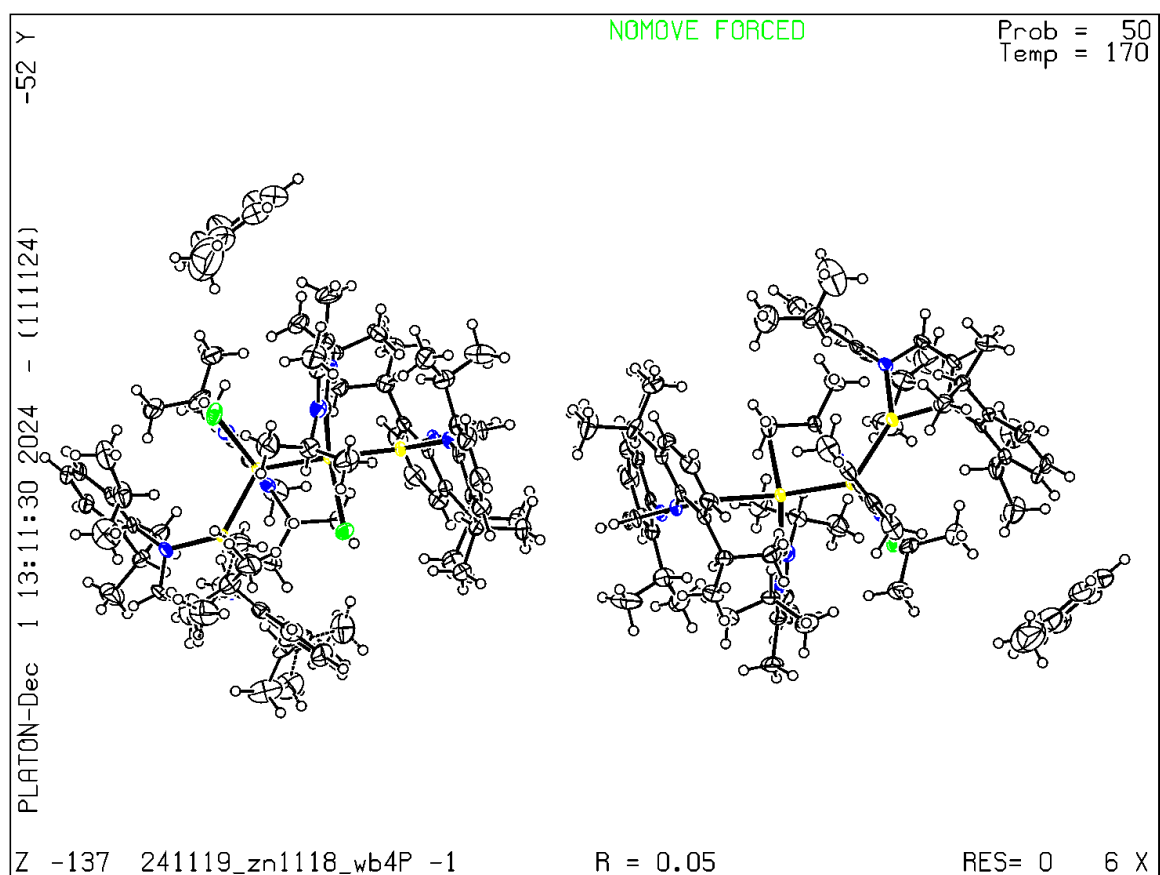
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PLATON version of 11/11/2024; check.def file version of 11/11/2024

Datablock 241119_zn1118_wb4gai2 - ellipsoid plot



You have not supplied any structure factors. As a result the full set of tests cannot be run.

No syntax errors found. CIF dictionary Interpreting this report

Bond precision:	C-C = 0.0063 Å	Wavelength=1.34139	
Cell:	a=22.905 (4)	b=13.390 (2)	c=28.905 (5)
	alpha=90	beta=105.023 (6)	gamma=90
Temperature:	170 K		

```
Correction method= # Reported T Limits: Tmin=0.650 Tmax=0.728
AbsCorr = MULTI-SCAN
```

```
R(reflections)= 0.0528( 8024)      wR2(reflections)=
S = 1.122                        0.1660( 9880)
Npar= 465
```

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

PLAT220_ALERT_2_C	NonSolvent	Resd 1	C	Ueq(max)/Ueq(min)	Range	3.4	Ratio
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of			C12	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of			C21	Check
PLAT341_ALERT_3_C	Low	Bond Precision on	C-C Bonds			0.00634	Ang.
PLAT411_ALERT_2_C	Short	Inter H...H Contact	H2 ..H2			2.11	Ang.
			1-x,1-y,1-z =			5_666	Check



Alert level G

ABSMU01_ALERT_1_G Calculation of _exptl_absorpt_correction_mu
not performed for this radiation type.

PLAT012_ALERT_1_G No _shelx_res_checksum Found in CIF Please Check

PLAT083_ALERT_2_G SHELXL Second Parameter in WGHT Unusually Large 15.56 Why ?

PLAT933_ALERT_2_G Number of HKL-OMIT Records in Embedded .res File 35 Note

-18	6	5,	-16	4	1,	-15	3	2,	-13	1	14,	-7	1	3,	-6	2	2,
-5	7	3,	-4	4	13,	-3	7	6,	-2	2	1,	-2	4	9,	-2	4	11,
-2	6	6,	-2	6	7,	-2	10	5,	-1	3	6,	-1	5	5,	-1	5	11,
-1	7	2,	-1	9	4,	0	0	2,	0	12	3,	2	4	2,	3	1	12,
3	3	0,	3	5	0,	3	9	7,	3	11	0,	6	4	5,	6	4	7,
7	5	0,	9	7	0,	9	9	10,	11	3	10,	13	1	0,			

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
- 0 **ALERT level B** = A potentially serious problem, consider carefully
- 5 **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
-
- 2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
- 6 ALERT type 2 Indicator that the structure model may be wrong or deficient
- 1 ALERT type 3 Indicator that the structure quality may be low
- 0 ALERT type 4 Improvement, methodology, query or suggestion
- 0 ALERT type 5 Informative message, check
-

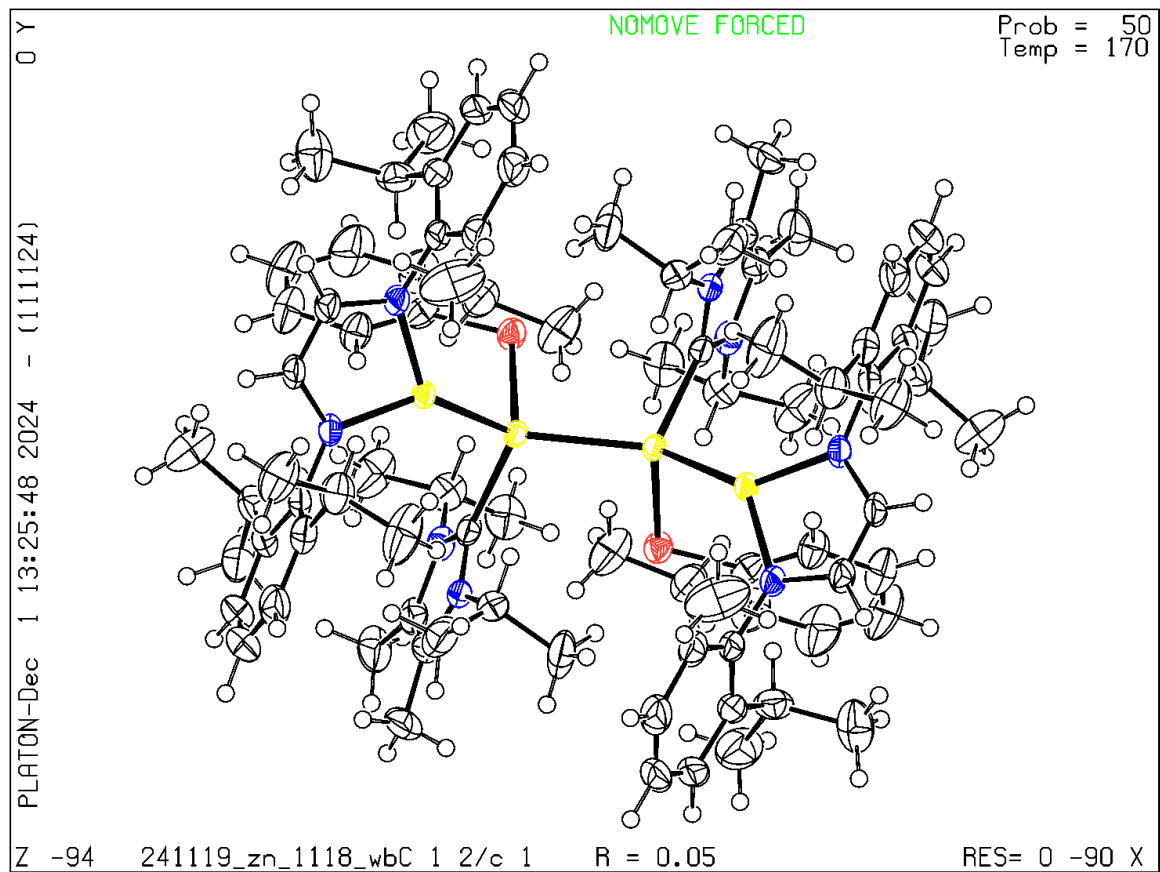
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checkCIF/PLATON report

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: 241120_zn1118_wb4gaph3ps

Bond precision: C-C = 0.0078 A

Wavelength=1.34139

Cell: a=13.2381(10) b=14.6550(11) c=21.4397(16)
 alpha=93.237(3) beta=99.157(3) gamma=99.405(3)
Temperature: 170 K

	Calculated	Reported
Volume	4036.6(5)	4036.6(5)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C74 H112 Ga4 N8 S, 0.5(C6 H14)	2(C37 H56 Ga2 N4 S0.5), 0.5(C6 H14)
Sum formula	C77 H119 Ga4 N8 S	C77 H119 Ga4 N8 S
Mr	1467.74	1467.73
Dx, g cm-3	1.208	1.208
Z	2	2
Mu (mm-1)	1.377	1.377
F000	1554.0	1554.0
F000'	1541.46	
h,k,lmax	17,19,27	17,19,27
Nref	18612	18364
Tmin,Tmax	0.906,0.946	0.668,0.752
Tmin'	0.896	

Correction method= # Reported T Limits: Tmin=0.668 Tmax=0.752
AbsCorr = MULTI-SCAN

Data completeness= 0.987

Theta(max)= 60.771

R(reflections)= 0.0758(12286)

wR2(reflections)=
0.1782(18364)

S = 1.059

Npar= 1107

```
test-name ALERT alert-type alert-level.
```

● Alert level C

Alert level G

[illegible]

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

4 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
45 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

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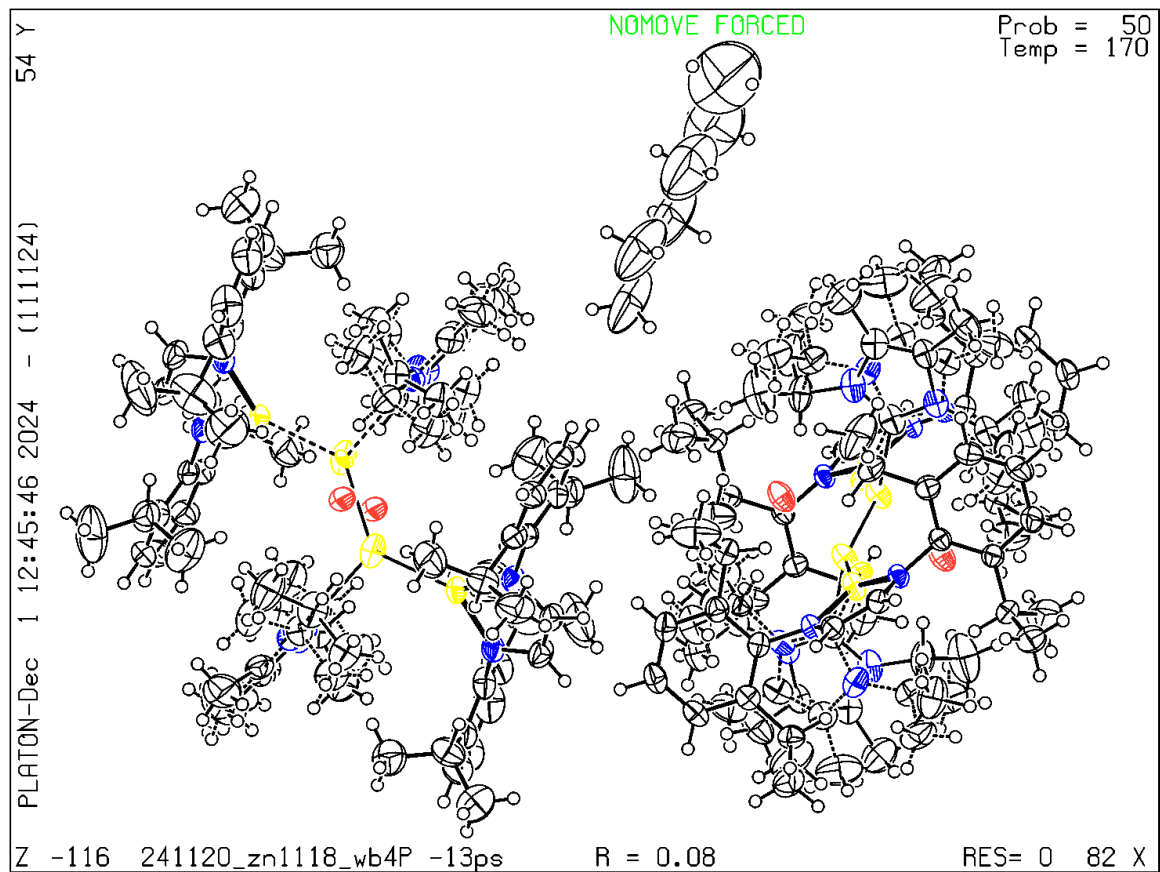
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PLATON version of 11/11/2024; check.def file version of 11/11/2024



checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

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No syntax errors found. CIF dictionary Interpreting this report

Datablock: 241015_cwh_wb4gaph2co

Bond precision:	C-C = 0.0065 Å	Wavelength=1.34139	
Cell:	a=23.9327(14) alpha=90	b=16.5933(10) beta=109.544(2)	c=23.8819(14) gamma=90
Temperature:	170 K		
	Calculated	Reported	
Volume	8937.6(9)	8937.6(9)	
Space group	P 21/c	P 1 21/c 1	
Hall group	-P 2ybc	-P 2ybc	
Moiety formula	2(C87 H122 Ga4 N8 O), C4 H10 O	C87 H122 Ga4 N8 O, 0.5(C4 H10 O)	
Sum formula	C178 H254 Ga8 N16 O3	C89 H127 Ga4 N8 O1.50	
Mr	3223.75	1611.86	
Dx, g cm ⁻³	1.198	1.198	
Z	2	4	
Mu (mm ⁻¹)	1.140	1.140	
F000	3412.0	3412.0	
F000'	3386.59		
h,k,lmax	31,21,31	31,21,30	
Nref	20618	20477	
Tmin,Tmax	0.896,0.955	0.680,0.752	
Tmin'	0.862		

Correction method= # Reported T Limits: Tmin=0.680 Tmax=0.752
AbsCorr = MULTI-SCAN

Data completeness= 0.993 Theta(max)= 60.772

R(reflections)= 0.0671(15665)

wR2(reflections)=
0.1862(20477)

S = 1.046

Npar= 1001

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

PLAT042_ALERT_1_C	Calc. and Reported MoietyFormula Strings Differ	Please Check
	Calc: 2(C87 H122 Ga4 N8 O), C4 H10 O	
	Rep.: C87 H122 Ga4 N8 O, 0.5(C4 H10 O)	
PLAT220_ALERT_2_C	NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range	4.0 Ratio
PLAT230_ALERT_2_C	Hirshfeld Test Diff for C17 --C18	6.3 s.u.
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C12 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C21 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C30 Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C82 Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including O3	0.133 Check
PLAT341_ALERT_3_C	Low Bond Precision on C-C Bonds	0.00651 Ang.
PLAT369_ALERT_2_C	Long C(sp2)-C(sp2) Bond C38 - C45	1.53 Ang.
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn H56C ..H57A	1.80 Ang.
	x,y,z =	1_555 Check

● Alert level G

ABSMU01_ALERT_1_G	Calculation of _exptl_absorpt_correction_mu not performed for this radiation type.	
PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	8 Note
PLAT003_ALERT_2_G	Number of Uiso or U(i,j) Restrained non-H Atoms	9 Report
PLAT012_ALERT_1_G	No _shelx_res_checksum Found in CIF	Please Check
PLAT045_ALERT_1_G	Calculated and Reported Z Differ by a Factor ...	0.500 Check
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	18.21 Why ?
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	2 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
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records	2 Report
PLAT192_ALERT_3_G	A Non-default DELU Restraint Value for First Par	0.0010 Report
PLAT192_ALERT_3_G	A Non-default DELU Restraint Value for SecondPar	0.0020 Report
PLAT299_ALERT_4_G	Atom Site Occupancy Constrained at	0.5 Check
	O3 C1A C1B C1C C1D H1AA H1AB H1BA H1BB H1CA H1CB H1DA H1DB H1DC	H1AC
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)	7% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 2)	100% Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 2)	7.50 Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety	C33 Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety	C34 Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety	C57 Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety	C58 Check
PLAT412_ALERT_2_G	Short Intra XH3 .. XHn H68 ..H75F	2.05 Ang.
	x,y,z =	1_555 Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	10 Note
	H1AA H1AB H1AC H1BA H1BB H1CA H1CB H1DA H1DB H1DC	
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...	42.80 Deg.
	O1 -C38 -GA3A 1_555 1_555 1_555	# 247 Check
PLAT789_ALERT_4_G	Atoms with Negative _atom_site_disorder_group #	15 Check
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	2 Note

C4 H10 O

PLAT822_ALERT_4_G	CIF-embedded .res Contains Negative PART Numbers	1 Check
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	47 Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File	50 Note

```

1 0 0, 2 0 2, -1 1 1, 2 1 1, 0 1 1, 1 2 3,
-2 1 1, -1 3 1, 1 1 1, 3 1 2, 2 18 15, -2 0 4,
2 1 2, -2 2 1, 3 2 7, 2 0 4, -3 1 1, 1 3 1,
-2 1 3, -4 1 3, -5 0 30, 4 1 1, 0 4 12, 1 1 3,
3 1 0, 2 2 1, 5 2 3, -3 1 5, -2 1 5, 0 5 1,
-9 1 4, -7 6 6, 3 4 1, -1 7 8, 3 7 2, 3 1 1,
-4 0 4, 6 3 3, -4 5 3, 7 6 3, 0 1 3, 4 4 9,
3 0 28, 0 2 3, 5 5 1, -1 1 5, -8 7 4, -4 8 5,
-6 6 5, 3 5 4,
```

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

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

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