

checkCIF/PLATON report

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

Datablock: 01

Bond precision: C-C = 0.0140 Å

Wavelength=0.71073

Cell: a=17.267(6) b=17.380(6) c=18.306(10)
 alpha=102.659(5) beta=103.677(5) gamma=110.207(3)
Temperature: 223 K

	Calculated	Reported
Volume	4729(3)	4729(3)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C42 H42 La2 N28 O26, 2(Cl4 Cu), 2(Cl)	C42 H66 La2 N28 O26, 2(Cu Cl4), 2Cl, 28(H2 O)
Sum formula	C42 H42 Cl10 Cu2 La2 N28 O26	C42 H122 Cl10 Cu2 La2 N28 O54
Mr	2114.46	2643.08
Dx,g cm-3	1.485	1.856
Z	2	2
Mu (mm-1)	1.685	1.726
F000	2080.0	2688.0
F000'	2083.84	
h,k,lmax	20,20,21	20,20,21
Nref	16673	16672
Tmin,Tmax	0.634,0.696	0.653,0.713
Tmin'	0.621	

Correction method= MULTI-SCAN

Data completeness= 1.000

Theta(max)= 25.000

R(reflections)= 0.0749(9307)

wR2(reflections)= 0.2528(15597)

S = 1.004

Npar= 991

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 A

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as

calculated from the _atom_site* data lies outside
the range 0.90 <> 1.10

From the CIF: _cell_formula_units_Z 2

From the CIF: _chemical_formula_weight 2643.08

TEST: Calculate formula weight from _atom_site_*

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	26.00	415.97
Cl	35.45	10.00	354.53
Cu	63.55	2.00	127.09
La	138.91	2.00	277.81

Calculated formula weight 2114.40

PLAT029_ALERT_3_A _diffn_measured_fraction_theta_full Low 0.936

Alert level C

RFACR01_ALERT_3_C The value of the weighted R factor is > 0.25

Weighted R factor given 0.253

PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ ?

PLAT051_ALERT_1_C Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by . 2.37 Perc.

PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or Missing)... ?

PLAT234_ALERT_4_C Large Hirshfeld Difference O4 -- C19 .. 0.18 Ang.

PLAT234_ALERT_4_C Large Hirshfeld Difference O14 -- C40 .. 0.17 Ang.

PLAT234_ALERT_4_C Large Hirshfeld Difference N22 -- C33 .. 0.18 Ang.

PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for La1

PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for La2

PLAT244_ALERT_4_C Low 'Solvent' Ueq as Compared to Neighbors of Cu1

PLAT244_ALERT_4_C Low 'Solvent' Ueq as Compared to Neighbors of Cu2

PLAT250_ALERT_2_C Large U3/U1 Ratio for Average U(i,j) Tensor 2.1

PLAT342_ALERT_3_C Low Bond Precision on C-C Bonds 0.0140 Ang

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl4 .. O8W . 3.11 Ang.

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl9 .. O2W . 3.09 Ang.

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl9 .. O4W . 3.16 Ang.

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: C42 H122 Cl10 Cu2 La2 N28 O54

Atom count from the _atom_site data: C42 H42 Cl10 Cu2 La2 N28 O26

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 C42 H122 Cl10 Cu2 La2 N28 O54

TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	84.00	84.00	0.00
H	244.00	84.00	160.00
Cl	20.00	20.00	0.00
Cu	4.00	4.00	0.00
La	4.00	4.00	0.00
N	56.00	56.00	0.00
O	108.00	52.00	56.00

PLAT004_ALERT_5_G Info: Polymeric Structure Found with Dimension . 1

PLAT005_ALERT_5_G No _iucr_refine_instructions_details in the CIF ?

PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ ?

PLAT044_ALERT_1_G Calculated and Reported Dx Differ ?

PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large.	0.16
PLAT194_ALERT_1_G	Missing _cell_measurement_reflms_used datum	?
PLAT195_ALERT_1_G	Missing _cell_measurement_theta_max datum	?
PLAT196_ALERT_1_G	Missing _cell_measurement_theta_min datum	?
PLAT606_ALERT_4_G	VERY LARGE Solvent Accessible VOID(S) in Structure	!
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	2
PLAT793_ALERT_4_G	The Model has Chirality at C2 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C3 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C8 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C9 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C14 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C15 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C20 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C21 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C26 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C27 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C32 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C33 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C38 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C39 (Verify)	S
PLAT794_ALERT_5_G	Note: Tentative Bond Valency for La1 (III)	3.21
PLAT794_ALERT_5_G	Note: Tentative Bond Valency for La2 (III)	3.28
PLAT869_ALERT_4_G	ALERTS Related to the use of SQUEEZE Suppressed	!

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

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

Datablock: 02

Bond precision: C-C = 0.0087 A

Wavelength=0.71073

Cell: a=17.2440(6) b=17.3617(6) c=18.1955(11)
 alpha=102.902(2) beta=103.810(2) gamma=110.459(1)
 Temperature: 223 K

	Calculated	Reported
Volume	4666.2(4)	4666.2(4)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C42 H42 N28 Nd2 O26, 2(Cl4 Cu), 2(Cl)	C42 H66 Nd2 N28 O26, 2(Cu Cl4), 2Cl, 28(H2 O)
Sum formula	C42 H42 Cl10 Cu2 N28 Nd2 O26	C42 H122 Cl10 Cu2 N28 Nd2 O54
Mr	2125.12	2653.74
Dx,g cm-3	1.513	1.889
Z	2	2
Mu (mm-1)	1.905	1.946
F000	2092.0	2700.0
F000'	2096.21	
h,k,lmax	20,20,21	20,20,21
Nref	16636	16427
Tmin,Tmax	0.552,0.591	0.584,0.622
Tmin'	0.542	

Correction method= MULTI-SCAN

Data completeness= 0.987 Theta(max)= 25.100

R(reflections)= 0.0529(13482) wR2(reflections)= 0.1756(16427)

S = 1.110 Npar= 991

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 A

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as calculated from the _atom_site* data lies outside the range 0.90 <> 1.10

From the CIF: _cell_formula_units_Z 2

From the CIF: _chemical_formula_weight 2653.74

TEST: Calculate formula weight from _atom_site_*

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	26.00	415.97
Cl	35.45	10.00	354.53
Nd	144.24	2.00	288.48
Cu	63.55	2.00	127.09

Calculated formula weight 2125.07



Alert level C

PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ ?

PLAT051_ALERT_1_C Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by . 2.11 Perc.

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PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or Missing)...      ?
PLAT230_ALERT_2_C Hirshfeld Test Diff for      04      --  C19      ..      5.2 su
PLAT230_ALERT_2_C Hirshfeld Test Diff for      012     --  C28      ..      5.7 su
PLAT242_ALERT_2_C Check Low      Ueq as Compared to Neighbors for      Nd1
PLAT242_ALERT_2_C Check Low      Ueq as Compared to Neighbors for      Nd2
PLAT244_ALERT_4_C Low   'Solvent' Ueq as Compared to Neighbors of      Cu1
PLAT244_ALERT_4_C Low   'Solvent' Ueq as Compared to Neighbors of      Cu2
PLAT342_ALERT_3_C Low Bond Precision on C-C Bonds .....      0.0087 Ang
PLAT431_ALERT_2_C Short Inter HL..A Contact  C14      ..  O1W      .      3.13 Ang.
PLAT431_ALERT_2_C Short Inter HL..A Contact  C19      ..  O8W      .      3.11 Ang.

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Alert level G

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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: C42 H122 Cl10 Cu2 N28 Nd2 O54
    Atom count from the _atom_site data:  C42 H42 Cl10 Cu2 N28 Nd2 O26
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  C42 H122 Cl10 Cu2 N28 Nd2 O54
    TEST: Compare cell contents of formula and atom_site data

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atom	Z*formula	cif sites	diff
C	84.00	84.00	0.00
H	244.00	84.00	160.00
Cl	20.00	20.00	0.00
Cu	4.00	4.00	0.00
N	56.00	56.00	0.00
Nd	4.00	4.00	0.00
O	108.00	52.00	56.00

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PLAT004_ALERT_5_G Info: Polymeric Structure Found with Dimension .      1
PLAT005_ALERT_5_G No _iucr_refine_instructions_details in the CIF      ?
PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ      ?
PLAT044_ALERT_1_G Calculated and Reported Dx Differ .....      ?
PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large.      0.11
PLAT083_ALERT_2_G SHELXL Second Parameter in WGHT Unusually Large.      5.45
PLAT194_ALERT_1_G Missing _cell_measurement_reflms_used datum ....      ?
PLAT195_ALERT_1_G Missing _cell_measurement_theta_max datum ....      ?
PLAT196_ALERT_1_G Missing _cell_measurement_theta_min datum ....      ?
PLAT606_ALERT_4_G VERY LARGE Solvent Accessible VOID(S) in Structure      !
PLAT793_ALERT_4_G The Model has Chirality at C2      (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C3      (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C8      (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C9      (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C14     (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C15     (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C20     (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C21     (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C26     (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C27     (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C32     (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C33     (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C38     (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C39     (Verify) ....      S
PLAT869_ALERT_4_G ALERTS Related to the use of SQUEEZE Suppressed      !

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- 1 **ALERT level A** = Most likely a serious problem - resolve or explain
 0 **ALERT level B** = A potentially serious problem, consider carefully
 12 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight

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

10 ALERT type 1 CIF construction/syntax error, inconsistent or missing data

10 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

18 ALERT type 4 Improvement, methodology, query or suggestion

2 ALERT type 5 Informative message, check

Datablock: 03

Bond precision: C-C = 0.0099 A Wavelength=0.71073

Cell: a=17.1376(9) b=17.4128(8) c=18.4104(9)
alpha=103.314(2) beta=103.349(2) gamma=110.196(2)

Temperature: 223 K

	Calculated	Reported
Volume	4718.9(4)	4718.9(4)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C42 H42 La2 N28 O26, Cl4 Co, 4(Cl)	C42 H66 La2 N28 O26, Co Cl4, 4Cl, 31(H2 O)
Sum formula	C42 H42 Cl8 Co La2 N28 O26	C42 H128 Cl8 Co La2 N28 O57
Mr	1975.39	2558.07
Dx,g cm-3	1.390	1.800
Z	2	2
Mu (mm-1)	1.362	1.407
F000	1950.0	2618.0
F000'	1952.67	
h,k,lmax	20,20,21	20,20,21
Nref	16812	16635
Tmin,Tmax	0.653,0.703	0.669,0.720
Tmin'	0.640	

Correction method= MULTI-SCAN

Data completeness= 0.989 Theta(max)= 25.100

R(reflections)= 0.0567(11474) wR2(reflections)= 0.1782(16635)

S = 0.923 Npar= 964

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 A

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as calculated from the _atom_site* data lies outside the range 0.90 <> 1.10

From the CIF: _cell_formula_units_Z 2

From the CIF: _chemical_formula_weight 2558.07

TEST: Calculate formula weight from _atom_site*

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	26.00	415.97
Cl	35.45	8.00	283.62
Co	58.93	1.00	58.93
La	138.91	2.00	277.81
Calculated formula weight			1975.34

🟡 Alert level C

PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ ?
PLAT051_ALERT_1_C Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by . 3.19 Perc.
PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or Missing)... ?
PLAT230_ALERT_2_C Hirshfeld Test Diff for N21 -- C31 .. 6.0 su
PLAT230_ALERT_2_C Hirshfeld Test Diff for N22 -- C35 .. 5.6 su
PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for La1
PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for La2
PLAT342_ALERT_3_C Low Bond Precision on C-C Bonds 0.0099 Ang
PLAT431_ALERT_2_C Short Inter HL..A Contact Cl2 .. O1W . 3.15 Ang.
PLAT431_ALERT_2_C Short Inter HL..A Contact Cl3 .. O8W . 3.14 Ang.
PLAT431_ALERT_2_C Short Inter HL..A Contact Cl5 .. O8W . 3.08 Ang.

🟢 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: C42 H128 Cl8 Co1 La2 N28 O57

Atom count from the _atom_site data: C42 H42 Cl8 Co1 La2 N28 O26

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 C42 H128 Cl8 Co La2 N28 O57

TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	84.00	84.00	0.00
H	256.00	84.00	172.00
Cl	16.00	16.00	0.00
Co	2.00	2.00	0.00
La	4.00	4.00	0.00
N	56.00	56.00	0.00
O	114.00	52.00	62.00

PLAT004_ALERT_5_G Info: Polymeric Structure Found with Dimension . 1
PLAT005_ALERT_5_G No _iucr_refine_instructions_details in the CIF ?
PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ ?
PLAT044_ALERT_1_G Calculated and Reported Dx Differ ?
PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large. 0.11
PLAT154_ALERT_1_G The su's on the Cell Angles are Equal 0.00200 Deg.
PLAT194_ALERT_1_G Missing _cell_measurement_reflms_used datum ?
PLAT195_ALERT_1_G Missing _cell_measurement_theta_max datum ?
PLAT196_ALERT_1_G Missing _cell_measurement_theta_min datum ?

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PLAT606_ALERT_4_G VERY LARGE Solvent Accessible VOID(S) in Structure      !
PLAT793_ALERT_4_G The Model has Chirality at C2      (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C3      (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C8      (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C9      (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C14     (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C15     (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C20     (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C21     (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C26     (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C27     (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C32     (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C33     (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C38     (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C39     (Verify) ....      S
PLAT794_ALERT_5_G Note: Tentative Bond Valency for La1      (III)      3.26
PLAT794_ALERT_5_G Note: Tentative Bond Valency for La2      (III)      3.29
PLAT869_ALERT_4_G ALERTS Related to the use of SQUEEZE Suppressed      !

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1 ALERT level A = Most likely a serious problem - resolve or explain
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30 ALERT level G = General information/check it is not something unexpected

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11 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
10 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
16 ALERT type 4 Improvement, methodology, query or suggestion
4 ALERT type 5 Informative message, check

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Datablock: 04

Bond precision: C-C = 0.0086 A

Wavelength=0.71073

Cell: a=17.0773(11) b=17.3435(11) c=18.243(2)
alpha=103.410(3) beta=103.249(3) gamma=110.144(2)
Temperature: 223 K

	Calculated	Reported
Volume	4643.3(7)	4643.2(7)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C42 H42 Ce2 N28 O26, Cl4 Co, 4(Cl)	C42 H66 Ce2 N28 O26, Co Cl4, 4Cl, 26(H2 O)
Sum formula	C42 H42 Ce2 Cl8 Co N28 O26	C42 H118 Ce2 Cl8 Co N28 O52
Mr	1977.81	2470.41
Dx,g cm-3	1.415	1.767
Z	2	2
Mu (mm-1)	1.445	1.483
F000	1954.0	2522.0
F000'	1956.82	
h,k,lmax	20,20,21	20,20,21
Nref	16726	16543
Tmin,Tmax	0.610,0.650	0.632,0.673
Tmin'	0.598	

Correction method= MULTI-SCAN

Data completeness= 0.989

Theta(max)= 25.200

R(reflections)= 0.0499(12136)

wR2(reflections)= 0.1568(16543)

S = 1.027

Npar= 964

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 A

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as calculated from the _atom_site* data lies outside the range 0.90 <> 1.10

From the CIF: _cell_formula_units_Z 2

From the CIF: _chemical_formula_weight 2470.41

TEST: Calculate formula weight from _atom_site_*

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	26.00	415.97
Cl	35.45	8.00	283.62
Ce	140.12	2.00	280.24
Co	58.93	1.00	58.93

Calculated formula weight 1977.76



Alert level C

PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ ?

PLAT051_ALERT_1_C Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by . 2.59 Perc.

PLAT068_ALERT_1_C	Reported F000 Differs from Calcd (or Missing)...	?
PLAT242_ALERT_2_C	Check Low Ueq as Compared to Neighbors for	Ce1
PLAT242_ALERT_2_C	Check Low Ueq as Compared to Neighbors for	Ce2
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds	0.0086 Ang
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl2 .. O8W .	3.13 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl3 .. O1W .	3.15 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl5 .. O8W .	3.12 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl6 .. O6W .	3.01 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl6 .. O10W .	3.04 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl8 .. O1W .	3.16 Ang.

● 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: C42 H118 Ce2 Cl8 Co1 N28 O52
 Atom count from the _atom_site data: C42 H42 Ce2 Cl8 Co1 N28 O26

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 C42 H118 Ce2 Cl8 Co N28 O52
 TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	84.00	84.00	0.00
H	236.00	84.00	152.00
Ce	4.00	4.00	0.00
Cl	16.00	16.00	0.00
Co	2.00	2.00	0.00
N	56.00	56.00	0.00
O	104.00	52.00	52.00

PLAT004_ALERT_5_G	Info: Polymeric Structure Found with Dimension .	1
PLAT005_ALERT_5_G	No _iucr_refine_instructions_details in the CIF	?
PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ	?
PLAT044_ALERT_1_G	Calculated and Reported Dx Differ	?
PLAT194_ALERT_1_G	Missing _cell_measurement_reflms_used datum	?
PLAT195_ALERT_1_G	Missing _cell_measurement_theta_max datum	?
PLAT196_ALERT_1_G	Missing _cell_measurement_theta_min datum	?
PLAT606_ALERT_4_G	VERY LARGE Solvent Accessible VOID(S) in Structure	!
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	3
	Cl	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	4
	Cl	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	6
	Cl	
PLAT793_ALERT_4_G	The Model has Chirality at C2 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C3 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C8 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C9 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C14 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C15 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C20 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C21 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C26 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C27 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C32 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C33 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C38 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C39 (Verify)	R
PLAT869_ALERT_4_G	ALERTS Related to the use of SQUEEZE Suppressed	!

1 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
12 **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

10 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
10 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
19 ALERT type 4 Improvement, methodology, query or suggestion
2 ALERT type 5 Informative message, check

Datablock: 05

Bond precision: C-C = 0.0129 A Wavelength=0.71073

Cell: a=17.0566(17) b=17.1421(17) c=20.041(3)
 alpha=97.415(5) beta=112.647(5) gamma=111.089(4)

Temperature: 323 K

	Calculated	Reported
Volume	4795.8(10)	4795.8(10)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C42 H42 Eu2 N28 O24, Cl4 Cu, 4(Cl0.50), 0.5(Cl)	C42 H62 Eu2 N28 O24, Cu Cl4, 4Cl, 39(H2 O)
Sum formula	C42 H42 Cl8 Cu Eu2 N28 O24	C42 H140 Cl8 Cu Eu2 N28 O63
Mr	1974.13	2696.88
Dx,g cm-3	1.367	1.868
Z	2	2
Mu (mm-1)	1.803	1.859
F000	1946.0	2766.0
F000'	1949.09	
h,k,lmax	20,20,23	20,20,23
Nref	17091	16826
Tmin,Tmax	0.691,0.757	0.674,0.768
Tmin'	0.646	

Correction method= MULTI-SCAN

Data completeness= 0.984 Theta(max)= 25.100

R(reflections)= 0.0822(13121) wR2(reflections)= 0.2455(16826)

S = 1.125 Npar= 932

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 A

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as calculated from the `_atom_site*` data lies outside the range 0.90 <> 1.10

From the CIF: `_cell_formula_units_Z` 2

From the CIF: `_chemical_formula_weight` 2696.88

TEST: Calculate formula weight from `_atom_site_*`

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	24.00	383.98
Cl	35.45	8.00	283.62
Eu	151.96	2.00	303.92
Cu	63.55	1.00	63.55

Calculated formula weight 1974.06

Alert level C

PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ ?

PLAT051_ALERT_1_C Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by . 2.99 Perc.

PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or Missing)... ?

PLAT094_ALERT_2_C Ratio of Maximum / Minimum Residual Density 2.63

PLAT213_ALERT_2_C Atom Cl2 has ADP max/min Ratio 3.3 oblat

PLAT230_ALERT_2_C Hirshfeld Test Diff for O1 -- Cl .. 5.3 su

PLAT230_ALERT_2_C Hirshfeld Test Diff for N20 -- C30 .. 7.0 su

PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for Eu1

PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for Eu2

PLAT244_ALERT_4_C Low 'Solvent' Ueq as Compared to Neighbors of Cu1

PLAT342_ALERT_3_C Low Bond Precision on C-C Bonds 0.0129 Ang

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl5 .. O1W . 3.11 Ang.

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl6 .. O10W . 2.98 Ang.

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl7 .. O5W . 3.11 Ang.

PLAT790_ALERT_4_C Centre of Gravity not Within Unit Cell: Resd. # 1

C42 H42 Eu2 N28 O24

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`: C42 H140 Cl8 Cu1 Eu2 N28 O63

Atom count from the `_atom_site` data: C42 H42 Cl8 Cu1 Eu2 N28 O24

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` C42 H140 Cl8 Cu Eu2 N28 O63

TEST: Compare cell contents of formula and `_atom_site` data

atom	Z*formula	cif sites	diff
C	84.00	84.00	0.00
H	280.00	84.00	196.00
Cl	16.00	16.00	0.00
Cu	2.00	2.00	0.00
Eu	4.00	4.00	0.00
N	56.00	56.00	0.00

O	126.00	48.00	78.00	
PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite			4
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained Atom Sites			2
PLAT004_ALERT_5_G	Info: Polymeric Structure Found with Dimension .			1
PLAT005_ALERT_5_G	No _iucr_refine_instructions_details in the CIF			?
PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ			?
PLAT044_ALERT_1_G	Calculated and Reported Dx Differ			?
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large.			0.16
PLAT194_ALERT_1_G	Missing _cell_measurement_reflms_used datum			?
PLAT195_ALERT_1_G	Missing _cell_measurement_theta_max datum			?
PLAT196_ALERT_1_G	Missing _cell_measurement_theta_min datum			?
PLAT302_ALERT_4_G	Note: Anion/Solvent Disorder			11 Perc.
PLAT434_ALERT_2_G	Short Inter HL..HL Contact Cl1 .. Cl9 .			3.18 Ang.
PLAT434_ALERT_2_G	Short Inter HL..HL Contact Cl3 .. Cl9 .			3.33 Ang.
PLAT434_ALERT_2_G	Short Inter HL..HL Contact Cl6 .. Cl6 .			3.27 Ang.
PLAT606_ALERT_4_G	VERY LARGE Solvent Accessible VOID(S) in Structure			!
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #			2
	Cl4 Cu			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #			3
	Cl			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #			4
	Cl			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #			5
	Cl			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #			6
	Cl			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #			7
	Cl0.50			
PLAT793_ALERT_4_G	The Model has Chirality at C2 (Verify)			S
PLAT793_ALERT_4_G	The Model has Chirality at C3 (Verify)			R
PLAT793_ALERT_4_G	The Model has Chirality at C15 (Verify)			S
PLAT793_ALERT_4_G	The Model has Chirality at C20 (Verify)			S
PLAT793_ALERT_4_G	The Model has Chirality at C32 (Verify)			R
PLAT793_ALERT_4_G	The Model has Chirality at C33 (Verify)			S
PLAT793_ALERT_4_G	The Model has Chirality at C38 (Verify)			S
PLAT793_ALERT_4_G	The Model has Chirality at C39 (Verify)			S
PLAT860_ALERT_3_G	Note: Number of Least-Squares Restraints			14
PLAT869_ALERT_4_G	ALERTS Related to the use of SQUEEZE Suppressed			!

1 **ALERT level A** = Most likely a serious problem - resolve or explain
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 15 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
 34 **ALERT level G** = General information/check it is not something unexpected

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

Datablock: 06

Bond precision: C-C = 0.0167 A

Wavelength=0.71073

Cell: a=17.045(4) b=17.080(4) c=19.983(7)
 alpha=112.825(11) beta=96.852(11) gamma=111.574(8)
 Temperature: 223 K

	Calculated	Reported
Volume	4748(2)	4748(2)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C42 H42 Gd2 N28 O24, Cl4 Cu, 2.75(Cl0.50), 1.5(Cl)	C42 H62 Gd2 N28 O24, Cu Cl4, 4Cl, 43(H2 O)
Sum formula	C42 H42 Cl8 Cu Gd2 N28 O24	C42 H148 Cl8 Cu Gd2 N28 O67
Mr	1984.69	2779.52
Dx,g cm-3	1.388	1.944
Z	2	2
Mu (mm-1)	1.897	1.959
F000	1950.0	2850.0
F000'	1953.05	
h,k,lmax	20,20,23	20,20,23
Nref	17105	16910
Tmin,Tmax	0.662,0.731	0.673,0.745
Tmin'	0.643	

Correction method= MULTI-SCAN

Data completeness= 0.989 Theta(max)= 25.200

R(reflections)= 0.1009(12439) wR2(reflections)= 0.3035(16910)

S = 1.155 Npar= 911

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 A

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as
 calculated from the _atom_site* data lies outside
 the range 0.90 <> 1.10

From the CIF: _cell_formula_units_Z 2

From the CIF: _chemical_formula_weight 2779.52

TEST: Calculate formula weight from _atom_site_*

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	24.00	383.98
Cl	35.45	8.00	283.62
Gd	157.25	2.00	314.50
Cu	63.55	1.00	63.55

Calculated formula weight 1984.64

● Alert level C

RFACG01_ALERT_3_C The value of the R factor is > 0.10
R factor given 0.101

RFACR01_ALERT_3_C The value of the weighted R factor is > 0.25
Weighted R factor given 0.303

PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ ?

PLAT051_ALERT_1_C Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by . 3.15 Perc.

PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or Missing)... ?

PLAT084_ALERT_2_C High wR2 Value 0.30

PLAT213_ALERT_2_C Atom O9 has ADP max/min Ratio 3.8 oblat

PLAT213_ALERT_2_C Atom O10W has ADP max/min Ratio 3.1 prola

PLAT230_ALERT_2_C Hirshfeld Test Diff for O9 -- C1 .. 7.0 su

PLAT234_ALERT_4_C Large Hirshfeld Difference O11 -- C31 .. 0.16 Ang.

PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for Gd1

PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for Gd2

PLAT244_ALERT_4_C Low 'Solvent' Ueq as Compared to Neighbors of Cu1

PLAT250_ALERT_2_C Large U3/U1 Ratio for Average U(i,j) Tensor 2.2

PLAT342_ALERT_3_C Low Bond Precision on C-C Bonds 0.0167 Ang

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl4 .. O6W . 3.16 Ang.

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl5 .. O6W . 3.08 Ang.

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl6 .. O9W . 3.06 Ang.

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl6 .. O9W . 3.06 Ang.

PLAT790_ALERT_4_C Centre of Gravity not Within Unit Cell: Resd. # 1
C42 H42 Gd2 N28 O24

● 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: C42 H148 Cl8 Cu1 Gd2 N28 O67
Atom count from the _atom_site data: C42 H42 Cl8 Cu1 Gd2 N28 O24

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 C42 H148 Cl8 Cu Gd2 N28 O67
TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	84.00	84.00	0.00
H	296.00	84.00	212.00
Cl	16.00	16.00	0.00
Cu	2.00	2.00	0.00
Gd	4.00	4.00	0.00
N	56.00	56.00	0.00
O	134.00	48.00	86.00

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 4

PLAT003_ALERT_2_G Number of Uiso or Uij Restrained Atom Sites 8

PLAT004_ALERT_5_G Info: Polymeric Structure Found with Dimension . 1

PLAT005_ALERT_5_G No _iucr_refine_instructions_details in the CIF ?

PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ ?

PLAT044_ALERT_1_G Calculated and Reported Dx Differ ?

PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large. 0.20

PLAT194_ALERT_1_G Missing _cell_measurement_reflms_used datum ?

PLAT195_ALERT_1_G Missing _cell_measurement_theta_max datum ?

PLAT196_ALERT_1_G Missing _cell_measurement_theta_min datum ?

PLAT302_ALERT_4_G Note: Anion/Solvent Disorder 22 Perc.

PLAT606_ALERT_4_G VERY LARGE Solvent Accessible VOID(S) in Structure !

PLAT790_ALERT_4_G Centre of Gravity not Within Unit Cell: Resd. # 2
Cl4 Cu

PLAT790_ALERT_4_G Centre of Gravity not Within Unit Cell: Resd. # 7

C1			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd.	#	8
C1			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd.	#	9
C1			
PLAT793_ALERT_4_G	The Model has Chirality at C8	(Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C9	(Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C14	(Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C15	(Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C20	(Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C21	(Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C33	(Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C38	(Verify)	R
PLAT860_ALERT_3_G	Note: Number of Least-Squares Restraints		50
PLAT869_ALERT_4_G	ALERTS Related to the use of SQUEEZE Suppressed		!

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

10 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
 4 ALERT type 3 Indicator that the structure quality may be low
 18 ALERT type 4 Improvement, methodology, query or suggestion
 2 ALERT type 5 Informative message, check

Datablock: 07

Bond precision: C-C = 0.0164 A Wavelength=0.71073

Cell: a=16.979(3) b=17.140(3) c=20.168(3)
 alpha=97.223(7) beta=113.441(6) gamma=111.556(6)

Temperature: 223 K

	Calculated	Reported
Volume	4747.2(15)	4747.3(14)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C42 H42 Dy2 N28 O24, Cl4 Co, 4.8(Cl0.20)	C42 H62 Dy2 N28 O24, Co Cl4, 4Cl, 39(H2 O)
Sum formula	C42 H42 Cl8 Co Dy2 N28 O24	C42 H140 Cl8 Co Dy2 N28 O63
Mr	1990.57	2713.35
Dx,g cm-3	1.393	1.898
Z	2	2
Mu (mm-1)	2.025	2.081
F000	1954.0	2774.0
F000'	1957.03	
h,k,lmax	20,20,24	20,20,24
Nref	16914	16666
Tmin,Tmax	0.694,0.747	0.669,0.759
Tmin'	0.640	

Correction method= MULTI-SCAN

Data completeness= 0.985 Theta(max)= 25.100

R(reflections)= 0.0886(12014) wR2(reflections)= 0.2524(16666)

S = 1.022 Npar= 920

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 A

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as
calculated from the _atom_site* data lies outside
the range 0.90 <> 1.10

From the CIF: _cell_formula_units_Z 2

From the CIF: _chemical_formula_weight 2713.35

TEST: Calculate formula weight from _atom_site_*

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	24.00	383.98
Cl	35.45	8.00	283.62
Dy	162.50	2.00	325.00
Co	58.93	1.00	58.93

Calculated formula weight 1990.53

PLAT434_ALERT_2_A Short Inter HL..HL Contact Cl8 .. Cl8 . 2.40 Ang.

Alert level C

RFACR01_ALERT_3_C The value of the weighted R factor is > 0.25

Weighted R factor given 0.252

PLAT041_ALERT_1_C	Calc. and Reported SumFormula	Strings Differ	?
PLAT051_ALERT_1_C	Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by		2.68 Perc.
PLAT068_ALERT_1_C	Reported F000 Differs from Calcd (or Missing)...		?
PLAT213_ALERT_2_C	Atom O5	has ADP max/min Ratio	3.1 oblat
PLAT213_ALERT_2_C	Atom O9	has ADP max/min Ratio	3.1 oblat
PLAT213_ALERT_2_C	Atom C34	has ADP max/min Ratio	3.1 oblat
PLAT232_ALERT_2_C	Hirshfeld Test Diff (M-X) Dy1 -- O2		5.7 su
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for	Dy1
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for	Dy2
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor	2.2
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds		0.0164 Ang
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl5 .. O7W	.	3.14 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl6 .. O10W	.	3.04 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl6 .. O10W	.	3.04 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl7 .. O10W	.	3.16 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl8 .. O5W	.	2.99 Ang.

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: C42 H140 Cl8 Co1 Dy2 N28 O63
 Atom count from the _atom_site data: C42 H42 Cl8 Co1 Dy2 N28 O24
 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 C42 H140 Cl8 Co Dy2 N28 O63
 TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	84.00	84.00	0.00
H	280.00	84.00	196.00
Cl	16.00	16.00	0.00
Co	2.00	2.00	0.00
Dy	4.00	4.00	0.00
N	56.00	56.00	0.00
O	126.00	48.00	78.00

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	5
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained Atom Sites	6
PLAT004_ALERT_5_G	Info: Polymeric Structure Found with Dimension .	1
PLAT005_ALERT_5_G	No _iucr_refine_instructions_details in the CIF	?
PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ	?
PLAT044_ALERT_1_G	Calculated and Reported Dx Differ	?
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large.	0.17
PLAT194_ALERT_1_G	Missing _cell_measurement_reflns_used datum	?
PLAT195_ALERT_1_G	Missing _cell_measurement_theta_max datum	?
PLAT196_ALERT_1_G	Missing _cell_measurement_theta_min datum	?
PLAT302_ALERT_4_G	Note: Anion/Solvent Disorder	5 Perc.
PLAT606_ALERT_4_G	VERY LARGE Solvent Accessible VOID(S) in Structure	!
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	3
	Cl	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	5
	Cl	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	7
	Cl	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	8
	Cl0.20	
PLAT793_ALERT_4_G	The Model has Chirality at C2 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C3 (Verify)	R

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PLAT793_ALERT_4_G The Model has Chirality at C15      (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C20      (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C32      (Verify) ....      R
PLAT793_ALERT_4_G The Model has Chirality at C33      (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C38      (Verify) ....      S
PLAT793_ALERT_4_G The Model has Chirality at C39      (Verify) ....      S
PLAT860_ALERT_3_G Note: Number of Least-Squares Restraints ..... 39
PLAT869_ALERT_4_G ALERTS Related to the use of SQUEEZE Suppressed      !

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 2 ALERT level A = Most likely a serious problem - resolve or explain
 0 ALERT level B = A potentially serious problem, consider carefully
17 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

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

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Datablock: 08

Bond precision: C-C = 0.0257 A

Wavelength=0.71073

Cell: a=17.085(4) b=17.228(4) c=20.219(6)
alpha=97.325(10) beta=113.561(7) gamma=111.615(7)
Temperature: 223 K

	Calculated	Reported
Volume	4801(2)	4801(2)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C42 H42 Er2 N28 O24, Cl4 Co, 2.5(Cl0.50), Cl0.50, Cl0.50, 1.5(C	C42 H62 Er2 N28 O24, Co Cl4, 4Cl, 47(H2 O)
Sum formula	C42 H42 Cl8 Co Er2 N28 O24	C42 H156 Cl8 Co Er2 N28 O71
Mr	2000.09	2867.00
Dx,g cm-3	1.384	1.983
Z	2	2
Mu (mm-1)	2.194	2.261
F000	1962.0	2942.0
F000'	1964.77	
h,k,lmax	20,20,24	20,20,24
Nref	16913	16592
Tmin,Tmax	0.672,0.745	0.673,0.758
Tmin'	0.644	

Correction method= MULTI-SCAN

Data completeness= 0.981

Theta(max)= 25.000

R(reflections)= 0.1200(10343)

wR2(reflections)= 0.3393(16592)

S = 1.114

Npar= 857

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 A

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as
calculated from the _atom_site* data lies outside
the range 0.90 <> 1.10

From the CIF: _cell_formula_units_Z 2

From the CIF: _chemical_formula_weight 2867.00

TEST: Calculate formula weight from _atom_site_*

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	24.00	383.98
Cl	35.45	8.00	283.62
Er	167.26	2.00	334.52
Co	58.93	1.00	58.93

Calculated formula weight 2000.05

PLAT410_ALERT_2_A Short Intra H...H Contact H27 .. H30B .. 1.76 Ang.

Alert level B

PLAT230_ALERT_2_B Hirshfeld Test Diff for N23 -- C30 .. 7.2 su

PLAT230_ALERT_2_B Hirshfeld Test Diff for N25 -- C35 .. 7.4 su

PLAT342_ALERT_3_B Low Bond Precision on C-C Bonds 0.0257 Ang

Alert level C

RFACG01_ALERT_3_C The value of the R factor is > 0.10

R factor given 0.120

RFACR01_ALERT_3_C The value of the weighted R factor is > 0.25

Weighted R factor given 0.339

PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ ?

PLAT051_ALERT_1_C Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by . 2.95 Perc.

PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or Missing)... ?

PLAT082_ALERT_2_C High R1 Value 0.12

PLAT084_ALERT_2_C High wR2 Value 0.34

PLAT213_ALERT_2_C Atom O9 has ADP max/min Ratio 3.3 oblat

PLAT213_ALERT_2_C Atom O14 has ADP max/min Ratio 3.1 prola

PLAT213_ALERT_2_C Atom C25 has ADP max/min Ratio 3.2 prola

PLAT230_ALERT_2_C Hirshfeld Test Diff for N1 -- C1 .. 5.4 su

PLAT230_ALERT_2_C Hirshfeld Test Diff for N1 -- C2 .. 6.6 su

PLAT230_ALERT_2_C Hirshfeld Test Diff for N5 -- C5 .. 6.0 su

PLAT230_ALERT_2_C Hirshfeld Test Diff for N5 -- C7 .. 7.0 su

PLAT230_ALERT_2_C Hirshfeld Test Diff for N18 -- C27 .. 6.6 su

PLAT230_ALERT_2_C Hirshfeld Test Diff for N20 -- C27 .. 6.7 su

PLAT230_ALERT_2_C Hirshfeld Test Diff for N20 -- C28 .. 6.0 su

PLAT230_ALERT_2_C Hirshfeld Test Diff for N20 -- C30 .. 5.1 su

PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Er2 -- O6W .. 5.5 su

PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Er2 -- O8W .. 9.0 su

PLAT234_ALERT_4_C	Large Hirshfeld Difference N13	--	C20	..	0.17	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference N14	--	C23	..	0.16	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference N26	--	C37	..	0.18	Ang.
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for			Er2	
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for			C16	
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for			C22	
PLAT410_ALERT_2_C	Short Intra H...H Contact	H29A	..	H30B	..	1.93 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact	C13	..	O4W	.	3.16 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact	C15	..	O4W	.	3.16 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact	C16	..	O5W	.	3.05 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact	C16	..	O5W	.	3.05 Ang.



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: C42 H156 Cl8 Co1 Er2 N28 O71
 Atom count from the _atom_site data: C42 H42 Cl8 Co1 Er2 N28 O24

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 C42 H156 Cl8 Co Er2 N28 O71
 TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	84.00	84.00	0.00
H	312.00	84.00	228.00
Cl	16.00	16.00	0.00
Co	2.00	2.00	0.00
Er	4.00	4.00	0.00
N	56.00	56.00	0.00
O	142.00	48.00	94.00

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 8
 PLAT003_ALERT_2_G Number of Uiso or Uij Restrained Atom Sites 10
 PLAT004_ALERT_5_G Info: Polymeric Structure Found with Dimension . 1
 PLAT005_ALERT_5_G No _iucr_refine_instructions_details in the CIF ?
 PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ ?
 PLAT044_ALERT_1_G Calculated and Reported Dx Differ ?
 PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large. 0.20
 PLAT194_ALERT_1_G Missing _cell_measurement_reflms_used datum ?
 PLAT195_ALERT_1_G Missing _cell_measurement_theta_max datum ?
 PLAT196_ALERT_1_G Missing _cell_measurement_theta_min datum ?
 PLAT302_ALERT_4_G Note: Anion/Solvent Disorder 26 Perc.
 PLAT606_ALERT_4_G VERY LARGE Solvent Accessible VOID(S) in Structure !
 PLAT790_ALERT_4_G Centre of Gravity not Within Unit Cell: Resd. # 3
 C1
 PLAT790_ALERT_4_G Centre of Gravity not Within Unit Cell: Resd. # 8
 C1
 PLAT793_ALERT_4_G The Model has Chirality at C2 (Verify) S
 PLAT793_ALERT_4_G The Model has Chirality at C3 (Verify) R
 PLAT793_ALERT_4_G The Model has Chirality at C15 (Verify) S
 PLAT793_ALERT_4_G The Model has Chirality at C20 (Verify) R
 PLAT793_ALERT_4_G The Model has Chirality at C32 (Verify) R
 PLAT793_ALERT_4_G The Model has Chirality at C33 (Verify) S
 PLAT793_ALERT_4_G The Model has Chirality at C38 (Verify) S
 PLAT793_ALERT_4_G The Model has Chirality at C39 (Verify) S
 PLAT860_ALERT_3_G Note: Number of Least-Squares Restraints 65
 PLAT869_ALERT_4_G ALERTS Related to the use of SQUEEZE Suppressed !

2 **ALERT level A** = Most likely a serious problem - resolve or explain

3 **ALERT level B** = A potentially serious problem, consider carefully
 31 **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

10 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
 4 ALERT type 3 Indicator that the structure quality may be low
 16 ALERT type 4 Improvement, methodology, query or suggestion
 2 ALERT type 5 Informative message, check

Datablock: 09

Bond precision: C-C = 0.0054 A Wavelength=0.71073

Cell: a=17.0739(11) b=27.7218(18) c=20.6280(14)
 alpha=90 beta=97.558(2) gamma=90

Temperature: 223 K

	Calculated	Reported
Volume	9678.8(11)	9678.8(11)
Space group	P 21/c	P 21/c
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C42 H42 Eu2 N28 O24, Cl4 Co, 4(Cl0.50), 0.5(Cl)	C42 H62 Eu2 N28 O24, Co Cl4, 4Cl, 34(H2 O)
Sum formula	C42 H42 Cl8 Co Eu2 N28 O24	C42 H130 Cl8 Co Eu2 N28 O58
Mr	1969.51	2602.19
Dx, g cm ⁻³	1.352	1.786
Z	4	4
Mu (mm ⁻¹)	1.739	1.787
F000	3884.0	5324.0
F000'	3890.30	
h,k,lmax	20,33,24	20,33,24
Nref	17253	17146
Tmin,Tmax	0.580,0.617	0.607,0.644
Tmin'	0.569	

Correction method= MULTI-SCAN

Data completeness= 0.994 Theta(max)= 25.100

R(reflections)= 0.0433(12777) wR2(reflections)= 0.1243(17146)

S = 1.016 Npar= 949

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 A

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as calculated from the _atom_site* data lies outside the range 0.90 <> 1.10

From the CIF: _cell_formula_units_Z 4

From the CIF: _chemical_formula_weight 2602.19

TEST: Calculate formula weight from _atom_site_*

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	24.00	383.98
Cl	35.45	8.00	283.62
Eu	151.96	2.00	303.92
Co	58.93	1.00	58.93

Calculated formula weight 1969.45

Alert level B

PLAT213_ALERT_2_B Atom C5 has ADP max/min Ratio 4.2 prola

PLAT230_ALERT_2_B Hirshfeld Test Diff for N5 -- C7 .. 10.0 su

Alert level C

PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ ?

PLAT051_ALERT_1_C Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by . 2.70 Perc.

PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or Missing)... ?

PLAT094_ALERT_2_C Ratio of Maximum / Minimum Residual Density 3.61

PLAT213_ALERT_2_C Atom N5 has ADP max/min Ratio 3.6 prola

PLAT230_ALERT_2_C Hirshfeld Test Diff for N5 -- C5 .. 7.0 su

PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for Eu1

PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for Eu2

PLAT250_ALERT_2_C Large U3/U1 Ratio for Average U(i,j) Tensor 2.3

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl4 .. O6W . 3.16 Ang.

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl5 .. O6W . 3.12 Ang.

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl6 .. O9W . 3.03 Ang.

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl6 .. O5W . 3.14 Ang.

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: C42 H130 Cl8 Co1 Eu2 N28 O58

Atom count from the _atom_site data: C42 H42 Cl8 Co1 Eu2 N28 O24

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 4

From the CIF: _chemical_formula_sum C42 H130 Cl8 Co Eu2 N28 O58

TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	168.00	168.00	0.00
H	520.00	168.00	352.00
Cl	32.00	32.00	0.00
Co	4.00	4.00	0.00

Eu	8.00	8.00	0.00	
N	112.00	112.00	0.00	
O	232.00	96.00	136.00	

PLAT004_ALERT_5_G Info: Polymeric Structure Found with Dimension . 1
 PLAT005_ALERT_5_G No _iucr_refine_instructions_details in the CIF ?
 PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ ?
 PLAT044_ALERT_1_G Calculated and Reported Dx Differ ?
 PLAT194_ALERT_1_G Missing _cell_measurement_reflms_used datum ?
 PLAT195_ALERT_1_G Missing _cell_measurement_theta_max datum ?
 PLAT196_ALERT_1_G Missing _cell_measurement_theta_min datum ?
 PLAT302_ALERT_4_G Note: Anion/Solvent Disorder 11 Perc.
 PLAT434_ALERT_2_G Short Inter HL..HL Contact Cl6 .. Cl8 . 2.89 Ang.
 PLAT434_ALERT_2_G Short Inter HL..HL Contact Cl7 .. Cl9 . 2.96 Ang.
 PLAT606_ALERT_4_G VERY LARGE Solvent Accessible VOID(S) in Structure !
 PLAT790_ALERT_4_G Centre of Gravity not Within Unit Cell: Resd. # 2
 Cl4 Co
 PLAT790_ALERT_4_G Centre of Gravity not Within Unit Cell: Resd. # 5
 Cl
 PLAT790_ALERT_4_G Centre of Gravity not Within Unit Cell: Resd. # 6
 Cl
 PLAT793_ALERT_4_G The Model has Chirality at C2 (Verify) S
 PLAT793_ALERT_4_G The Model has Chirality at C3 (Verify) R
 PLAT793_ALERT_4_G The Model has Chirality at C32 (Verify) R
 PLAT793_ALERT_4_G The Model has Chirality at C33 (Verify) S
 PLAT793_ALERT_4_G The Model has Chirality at C38 (Verify) R
 PLAT793_ALERT_4_G The Model has Chirality at C39 (Verify) S
 PLAT869_ALERT_4_G ALERTS Related to the use of SQUEEZE Suppressed !

1 **ALERT level A** = Most likely a serious problem - resolve or explain
 2 **ALERT level B** = A potentially serious problem, consider carefully
 13 **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

10 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
 0 ALERT type 3 Indicator that the structure quality may be low
 12 ALERT type 4 Improvement, methodology, query or suggestion
 2 ALERT type 5 Informative message, check

Datablock: 10

Bond precision: C-C = 0.0050 A

Wavelength=0.71073

Cell: a=17.0997(11) b=27.7353(19) c=20.6163(13)

alpha=90 beta=97.468(2) gamma=90

Temperature: 223 K

	Calculated	Reported
Volume	9694.7(11)	9694.7(11)
Space group	P 21/c	P 21/c
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C42 H42 Gd2 N28 O24, Cl4 Co, 4(Cl0.50), 0.5(Cl)	C42 H62 Gd2 N28 O24, Co Cl4, 4Cl, 34(H2 O)
Sum formula	C42 H42 Cl8 Co Gd2 N28 O24	C42 H130 Cl8 Co Gd2 N28 O58
Mr	1980.07	2612.77
Dx,g cm-3	1.357	1.790
Z	4	4
Mu (mm-1)	1.810	1.858
F000	3892.0	5332.0
F000'	3898.21	
h,k,lmax	20,33,24	20,33,24
Nref	17282	17169
Tmin,Tmax	0.589,0.640	0.615,0.664
Tmin'	0.578	

Correction method= MULTI-SCAN

Data completeness= 0.993

Theta(max)= 25.100

R(reflections)= 0.0404(12787)

wR2(reflections)= 0.1217(17169)

S = 0.951

Npar= 955

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 A

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as
calculated from the _atom_site* data lies outside
the range 0.90 <> 1.10

From the CIF: _cell_formula_units_Z 4

From the CIF: _chemical_formula_weight 2612.77

TEST: Calculate formula weight from _atom_site_*

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	24.00	383.98
Cl	35.45	8.00	283.62
Gd	157.25	2.00	314.50
Co	58.93	1.00	58.93

Calculated formula weight 1980.03

PLAT213_ALERT_2_A Atom N22

has ADP max/min Ratio

5.3 prola

Alert level B

PLAT213_ALERT_2_B Atom C6

has ADP max/min Ratio

4.4 prola

● Alert level C

PLAT041_ALERT_1_C	Calc. and Reported SumFormula	Strings Differ	?
PLAT051_ALERT_1_C	Mu(calc) and Mu(CIF) Ratio	Differs from 1.0 by .	2.58 Perc.
PLAT068_ALERT_1_C	Reported F000	Differs from Calcd (or Missing)...	?
PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	2.72
PLAT213_ALERT_2_C	Atom C21	has ADP max/min Ratio	3.5 oblat
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	N22 -- C22 ..	5.7 su
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	N22 -- C41 ..	7.0 su
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for	Gd1
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for	Gd2
PLAT431_ALERT_2_C	Short Inter HL..A	Contact C14 .. O6W .	3.16 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A	Contact C15 .. O6W .	3.14 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A	Contact C16 .. O10W .	3.04 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A	Contact C16 .. O5W .	3.14 Ang.
PLAT431_ALERT_2_C	Short Inter HL..A	Contact C17 .. O5W .	3.15 Ang.
PLAT790_ALERT_4_C	Centre of Gravity not Within Unit Cell: Resd. #		1
	C42 H42 Gd2 N28 O24		

● 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: C42 H130 Cl8 Co1 Gd2 N28 O58
Atom count from the _atom_site data: C42 H42 Cl8 Co1 Gd2 N28 O24

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 4
From the CIF: _chemical_formula_sum C42 H130 Cl8 Co Gd2 N28 O58
TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	168.00	168.00	0.00
H	520.00	168.00	352.00
Cl	32.00	32.00	0.00
Co	4.00	4.00	0.00
Gd	8.00	8.00	0.00
N	112.00	112.00	0.00
O	232.00	96.00	136.00

PLAT004_ALERT_5_G	Info: Polymeric Structure Found with Dimension .	1
PLAT005_ALERT_5_G	No _iucr_refine_instructions_details in the CIF	?
PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ	?
PLAT044_ALERT_1_G	Calculated and Reported Dx Differ	?
PLAT194_ALERT_1_G	Missing _cell_measurement_reflms_used datum	?
PLAT195_ALERT_1_G	Missing _cell_measurement_theta_max datum	?
PLAT196_ALERT_1_G	Missing _cell_measurement_theta_min datum	?
PLAT302_ALERT_4_G	Note: Anion/Solvent Disorder	11 Perc.
PLAT434_ALERT_2_G	Short Inter HL..HL Contact C12 .. C19 .	3.31 Ang.
PLAT434_ALERT_2_G	Short Inter HL..HL Contact C16 .. C18 .	2.89 Ang.
PLAT606_ALERT_4_G	VERY LARGE Solvent Accessible VOID(S) in Structure	!
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	5
	C1	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	6
	C1	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	7
	C10.50	
PLAT793_ALERT_4_G	The Model has Chirality at C23 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C24 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C25 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C26 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C27 (Verify)	R

PLAT793_ALERT_4_G The Model has Chirality at C28 (Verify) S
PLAT869_ALERT_4_G ALERTS Related to the use of SQUEEZE Suppressed !

2 **ALERT level A** = Most likely a serious problem - resolve or explain
1 **ALERT level B** = A potentially serious problem, consider carefully
15 **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

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

Datablock: 11

Bond precision: C-C = 0.0140 A Wavelength=0.71073

Cell: a=17.084(2) b=27.493(4) c=20.428(3)
alpha=90 beta=99.261(4) gamma=90

Temperature: 223 K

	Calculated	Reported
Volume	9470(2)	9470(2)
Space group	P 21/c	P 21/c
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C42 H42 Dy2 N28 O24, Cl4 Cu, 4(Cl0.50), 0.5(Cl)	C42 H62 Dy2 N28 O24, Cu Cl4, 4Cl, 46(H2 O)
Sum formula	C42 H42 Cl8 Cu Dy2 N28 O24	C42 H154 Cl8 Cu Dy2 N28 O70
Mr	1995.19	2844.07
Dx,g cm-3	1.399	1.995
Z	4	4
Mu (mm-1)	2.080	2.146
F000	3916.0	5836.0
F000'	3921.95	
h,k,lmax	21,33,25	20,33,25
Nref	18611	18333
Tmin,Tmax	0.723,0.790	0.712,0.798
Tmin'	0.687	

Correction method= MULTI-SCAN

Data completeness= 0.985 Theta(max)= 26.000

R(reflections)= 0.1016(10670) wR2(reflections)= 0.2797(18333)

S = 1.023

Npar= 955

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 A

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as
 calculated from the _atom_site* data lies outside
 the range 0.90 <> 1.10
 From the CIF: _cell_formula_units_Z 4
 From the CIF: _chemical_formula_weight 2844.07
 TEST: Calculate formula weight from _atom_site_*

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	24.00	383.98
Cl	35.45	8.00	283.62
Dy	162.50	2.00	325.00
Cu	63.55	1.00	63.55

Calculated formula weight 1995.14

PLAT213_ALERT_2_A Atom Dy1	has ADP max/min Ratio	7.7 oblat
PLAT213_ALERT_2_A Atom Dy2	has ADP max/min Ratio	8.0 oblat

Alert level B

PLAT232_ALERT_2_B Hirshfeld Test Diff (M-X) Dy1	-- O1	..	12.1 su
PLAT232_ALERT_2_B Hirshfeld Test Diff (M-X) Dy1	-- O4W	..	11.0 su
PLAT232_ALERT_2_B Hirshfeld Test Diff (M-X) Dy2	-- O11	..	14.5 su

Alert level C

RFACG01_ALERT_3_C The value of the R factor is > 0.10
 R factor given 0.102

RFACR01_ALERT_3_C The value of the weighted R factor is > 0.25
 Weighted R factor given 0.280

RINTA01_ALERT_3_C The value of Rint is greater than 0.12
 Rint given 0.125

PLAT020_ALERT_3_C The value of Rint is greater than 0.12	0.125
PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ	?
PLAT051_ALERT_1_C Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by .	3.08 Perc.
PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or Missing)...	?
PLAT084_ALERT_2_C High wR2 Value	0.28
PLAT213_ALERT_2_C Atom O2W has ADP max/min Ratio	3.2 oblat
PLAT234_ALERT_4_C Large Hirshfeld Difference O9 -- C10 ..	0.16 Ang.
PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for Dy1	
PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for Dy2	
PLAT244_ALERT_4_C Low 'Solvent' Ueq as Compared to Neighbors of Cu1	
PLAT342_ALERT_3_C Low Bond Precision on C-C Bonds	0.0140 Ang
PLAT431_ALERT_2_C Short Inter HL..A Contact Cl4 .. O8W .	3.15 Ang.
PLAT431_ALERT_2_C Short Inter HL..A Contact Cl5 .. O8W .	3.09 Ang.
PLAT431_ALERT_2_C Short Inter HL..A Contact Cl6 .. O4W .	3.01 Ang.
PLAT431_ALERT_2_C Short Inter HL..A Contact Cl6 .. O3W .	3.16 Ang.
PLAT431_ALERT_2_C Short Inter HL..A Contact Cl7 .. O4W .	3.06 Ang.
PLAT790_ALERT_4_C Centre of Gravity not Within Unit Cell: Resd. #	1

C42 H42 Dy2 N28 O24

● 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: C42 H154 Cl8 Cu1 Dy2 N28 O70
 Atom count from the _atom_site data: C42 H42 Cl8 Cu1 Dy2 N28 O24
 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 4
 From the CIF: _chemical_formula_sum C42 H154 Cl8 Cu Dy2 N28 O70
 TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	168.00	168.00	0.00
H	616.00	168.00	448.00
Cl	32.00	32.00	0.00
Cu	4.00	4.00	0.00
Dy	8.00	8.00	0.00
N	112.00	112.00	0.00
O	280.00	96.00	184.00

PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained Atom Sites	64
PLAT004_ALERT_5_G	Info: Polymeric Structure Found with Dimension .	1
PLAT005_ALERT_5_G	No _iucr_refine_instructions_details in the CIF	?
PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ	?
PLAT044_ALERT_1_G	Calculated and Reported Dx Differ	?
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large.	0.17
PLAT194_ALERT_1_G	Missing _cell_measurement_reflms_used datum	?
PLAT195_ALERT_1_G	Missing _cell_measurement_theta_max datum	?
PLAT196_ALERT_1_G	Missing _cell_measurement_theta_min datum	?
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Dy1 -- O8_b ..	6.2 su
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Dy1 -- O14_b ..	6.1 su
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Dy2 -- O6W ..	5.5 su
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Dy2 -- O5_a ..	7.5 su
PLAT302_ALERT_4_G	Note: Anion/Solvent Disorder	11 Perc.
PLAT434_ALERT_2_G	Short Inter HL..HL Contact Cl6 .. Cl8 .	3.18 Ang.
PLAT606_ALERT_4_G	VERY LARGE Solvent Accessible VOID(S) in Structure	!
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	2
	Cl4 Cu	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	3
	Cl	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	5
	Cl	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	7
	Cl0.50	
PLAT793_ALERT_4_G	The Model has Chirality at C9 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C14 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C26 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C27 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C32 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C33 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C38 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C39 (Verify)	S
PLAT860_ALERT_3_G	Note: Number of Least-Squares Restraints	384
PLAT869_ALERT_4_G	ALERTS Related to the use of SQUEEZE Suppressed	!

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

10 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 23 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
 18 ALERT type 4 Improvement, methodology, query or suggestion
 2 ALERT type 5 Informative message, check

Datablock: 12

Bond precision: C-C = 0.0286 Å Wavelength=0.71073

Cell: a=17.1162(13) b=27.675(2) c=20.4248(16)
 alpha=90 beta=97.399(2) gamma=90

Temperature: 223 K

	Calculated	Reported
Volume	9594.5(13)	9594.4(13)
Space group	P 21/c	P 21/c
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C42 H42 Ho2 N28 O24, Cl4 Co, 3(Cl0.50), Cl0.50, 1.5(Cl0.50)	C42 H62 Ho2 N28 O24, Co Cl4, 4Cl, 55(H2 O)
Sum formula	C42 H42 Cl8 Co Ho2 N28 O24	C42 H172 Cl8 Co Ho2 N28 O79
Mr	1995.43	3006.47
Dx, g cm ⁻³	1.381	2.081
Z	4	4
Mu (mm ⁻¹)	2.096	2.174
F000	3916.0	6196.0
F000'	3921.83	
h,k,lmax	21,34,25	21,33,25
Nref	18841	18676
Tmin,Tmax	0.648,0.722	0.658,0.736
Tmin'	0.627	

Correction method= MULTI-SCAN

Data completeness= 0.991 Theta(max)= 26.000

R(reflections)= 0.0890(10691) wR2(reflections)= 0.2583(18676)

S = 1.030 Npar= 952

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 A**

CHEMW03_ALERT_2_A ALERT: The ratio of given/expected molecular weight as calculated from the _atom_site* data lies outside the range 0.90 <> 1.10

From the CIF: _cell_formula_units_Z 4

From the CIF: _chemical_formula_weight 3006.47

TEST: Calculate formula weight from _atom_site*

atom	mass	num	sum
C	12.01	42.00	504.46
H	1.01	42.00	42.34
N	14.01	28.00	392.20
O	16.00	24.00	383.98
Cl	35.45	8.00	283.62
Ho	164.93	2.00	329.86
Co	58.93	1.00	58.93
Calculated formula weight			1995.39



Alert level B

PLAT342_ALERT_3_B Low Bond Precision on C-C Bonds 0.0286 Ang



Alert level C

RFACR01_ALERT_3_C The value of the weighted R factor is > 0.25

Weighted R factor given 0.258

PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ ?

PLAT051_ALERT_1_C Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by . 3.59 Perc.

PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or Missing)... ?

PLAT084_ALERT_2_C High wR2 Value 0.26

PLAT094_ALERT_2_C Ratio of Maximum / Minimum Residual Density 2.19

PLAT234_ALERT_4_C Large Hirshfeld Difference N16 -- Cl8 .. 0.17 Ang.

PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for Ho1

PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for Ho2

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl6 .. O7W . 3.12 Ang.

PLAT431_ALERT_2_C Short Inter HL..A Contact Cl7 .. O10W . 2.99 Ang.



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: C42 H172 Cl8 Co1 Ho2 N28 O79

Atom count from the _atom_site data: C42 H42 Cl8 Co1 Ho2 N28 O24

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 4

From the CIF: _chemical_formula_sum C42 H172 Cl8 Co Ho2 N28 O79

TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	168.00	168.00	0.00
H	688.00	168.00	520.00
Cl	32.00	32.00	0.00
Co	4.00	4.00	0.00
Ho	8.00	8.00	0.00
N	112.00	112.00	0.00
O	316.00	96.00	220.00

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 3

PLAT003_ALERT_2_G Number of Uiso or Uij Restrained Atom Sites 6

PLAT004_ALERT_5_G Info: Polymeric Structure Found with Dimension . 1

PLAT005_ALERT_5_G No _iucr_refine_instructions_details in the CIF ?

PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ ?

PLAT044_ALERT_1_G	Calculated and Reported Dx Differ	?
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large.	0.15
PLAT194_ALERT_1_G	Missing _cell_measurement_reflms_used datum	?
PLAT195_ALERT_1_G	Missing _cell_measurement_theta_max datum	?
PLAT196_ALERT_1_G	Missing _cell_measurement_theta_min datum	?
PLAT302_ALERT_4_G	Note: Anion/Solvent Disorder	22 Perc.
PLAT434_ALERT_2_G	Short Inter HL..HL Contact C17 .. C19 ..	2.67 Ang.
PLAT606_ALERT_4_G	VERY LARGE Solvent Accessible VOID(S) in Structure	!
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	4
	C1	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	6
	C10.50	
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	7
	C1	
PLAT793_ALERT_4_G	The Model has Chirality at C3 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C4 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C9 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C10 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C22 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C28 (Verify)	R
PLAT793_ALERT_4_G	The Model has Chirality at C40 (Verify)	S
PLAT793_ALERT_4_G	The Model has Chirality at C44 (Verify)	R
PLAT860_ALERT_3_G	Note: Number of Least-Squares Restraints	40
PLAT869_ALERT_4_G	ALERTS Related to the use of SQUEEZE Suppressed	!

-
- 1 **ALERT level A** = Most likely a serious problem - resolve or explain
 - 1 **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

- 10 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
 - 3 ALERT type 3 Indicator that the structure quality may be low
 - 15 ALERT type 4 Improvement, methodology, query or suggestion
 - 2 ALERT type 5 Informative message, check
-

checkCIF publication errors

Alert level A

PUBL004_ALERT_1_A The contact author's name and address are missing,
_publ_contact_author_name and _publ_contact_author_address.

PUBL005_ALERT_1_A _publ_contact_author_email, _publ_contact_author_fax and
_publ_contact_author_phone are all missing.
At least one of these should be present.

PUBL006_ALERT_1_A _publ_requested_journal is missing
e.g. 'Acta Crystallographica Section C'

PUBL008_ALERT_1_A _publ_section_title is missing. Title of paper.

PUBL009_ALERT_1_A _publ_author_name is missing. List of author(s) name(s).

PUBL010_ALERT_1_A _publ_author_address is missing. Author(s) address(es).

PUBL012_ALERT_1_A _publ_section_abstract is missing.
Abstract of paper in English.

Alert level G

PUBL013_ALERT_1_G The _publ_section_comment (discussion of study) is
missing. This is required for a full paper submission (but is
optional for an electronic paper).

PUBL017_ALERT_1_G The _publ_section_references section is missing or empty.

7 **ALERT level A** = Data missing that is essential or data in wrong format
2 **ALERT level G** = General alerts. Data that may be required is missing

Publication of your CIF

You should attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the nature of your study may justify the reported deviations from journal submission requirements and the more serious of these should be commented upon in the discussion or experimental section of a paper or in the "special_details" fields of the CIF. *checkCIF* was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

If level A alerts remain, which you believe to be justified deviations, and you intend to submit this CIF for publication in Acta Crystallographica Section C or Section E, you should additionally insert an explanation in your CIF using the Validation Reply Form (VRF) below. Your explanation will be considered as part of the review process.

If you intend to submit to another section of Acta Crystallographica or Journal of Applied Crystallography or Journal of Synchrotron Radiation, you should make sure that at least a basic structural check is run on the final version of your CIF prior to submission.

```
# start Validation Reply Form
_vrf_PUBL004_GLOBAL
;
PROBLEM: The contact author's name and address are missing,
RESPONSE: ...
;
_vrf_PUBL005_GLOBAL
;
PROBLEM: _publ_contact_author_email, _publ_contact_author_fax and
RESPONSE: ...
;
_vrf_PUBL006_GLOBAL
;
PROBLEM: _publ_requested_journal is missing
RESPONSE: ...
;
_vrf_PUBL008_GLOBAL
;
PROBLEM: _publ_section_title is missing. Title of paper.
RESPONSE: ...
;
_vrf_PUBL009_GLOBAL
;
PROBLEM: _publ_author_name is missing. List of author(s) name(s).
RESPONSE: ...
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;
_vrf_PUBL010_GLOBAL
;
PROBLEM: _publ_author_address is missing. Author(s) address(es).
RESPONSE: ...
;
_vrf_PUBL012_GLOBAL
;
PROBLEM: _publ_section_abstract is missing.
RESPONSE: ...
;
_vrf_CHEMW03_01
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
_vrf_PLAT029_01
;
PROBLEM: _diffn_measured_fraction_theta_full Low ..... 0.936
RESPONSE: ...
;
_vrf_CHEMW03_02
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
_vrf_CHEMW03_03
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
_vrf_CHEMW03_04
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
_vrf_CHEMW03_05
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
_vrf_CHEMW03_06
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
_vrf_CHEMW03_07
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
_vrf_PLAT434_07
;
PROBLEM: Short Inter HL..HL Contact  C18    ..  C18    .        2.40 Ang.
RESPONSE: ...
;
_vrf_CHEMW03_08
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
_vrf_PLAT410_08

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;
PROBLEM: Short Intra H...H Contact  H27      ..  H30B      ..      1.76 Ang.
RESPONSE: ...
;
_vrf_CHEMW03_09
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
_vrf_CHEMW03_10
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
_vrf_PLAT213_10
;
PROBLEM: Atom N22                has ADP max/min Ratio .....      5.3 prola
RESPONSE: ...
;
_vrf_CHEMW03_11
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
_vrf_PLAT213_11
;
PROBLEM: Atom Dyl                has ADP max/min Ratio .....      7.7 oblat
RESPONSE: ...
;
_vrf_CHEMW03_12
;
PROBLEM: ALERT: The ratio of given/expected molecular weight as
RESPONSE: ...
;
# end Validation Reply Form

```

If you wish to submit your CIF for publication in Acta Crystallographica Section C or E, you should upload your CIF via the web. If your CIF is to form part of a submission to another IUCr journal, you will be asked, either during electronic submission or by the Co-editor handling your paper, to upload your CIF via our web site.

PLATON version of 05/11/2012; check.def file version of 05/11/2012























