

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: CoGd

Bond precision: C-C = 0.0068 A

Wavelength=0.71073

Cell: a=15.7469(4) b=13.0245(2) c=21.9609(5)
 alpha=90 beta=110.893(3) gamma=90
Temperature: 101 K

	Calculated	Reported
Volume	4207.93(18)	4207.91(18)
Space group	P 21/c	P 1 21/c 1
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C50 H90 Co2 Gd2 O22, 2(C6 H16 N), C2 N	C50 H90 Co2 Gd2 O22, 2(C6 H16 N), C2 N
Sum formula	C64 H122 Co2 Gd2 N3 O22	C64 H122 Co2 Gd2 N3 O22
Mr	1718.01	1718.00
Dx,g cm-3	1.356	1.356
Z	2	2
Mu (mm-1)	2.006	2.006
F000	1770.0	1770.0
F000'	1771.43	
h,k,lmax	19,16,27	19,16,27
Nref	8615	8600
Tmin,Tmax	0.786,0.852	0.652,1.000
Tmin'	0.770	

Correction method= # Reported T Limits: Tmin=0.652 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 0.998

Theta(max)= 26.372

R(reflections)= 0.0345(7604)

wR2(reflections)= 0.0947(8600)

S = 1.060

Npar= 519

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

Alert level B

PLAT223_ALERT_4_B	Large Solvent/Anion H	Ueq(max)/Ueq(min)	.....	4.4	Ratio
PLAT232_ALERT_2_B	Hirshfeld Test Diff (M-X)	Gd1	-- 01 ..	15.2	su

Alert level C

PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	....	2.31	Report
PLAT220_ALERT_2_C	Large Non-Solvent C	Ueq(max)/Ueq(min) Range	3.7	Ratio
PLAT241_ALERT_2_C	High	Ueq as Compared to Neighbors for	....	01 Check
PLAT241_ALERT_2_C	High	Ueq as Compared to Neighbors for	....	02 Check
PLAT241_ALERT_2_C	High	Ueq as Compared to Neighbors for	....	09 Check
PLAT242_ALERT_2_C	Low	Ueq as Compared to Neighbors for	....	C2 Check
PLAT242_ALERT_2_C	Low	Ueq as Compared to Neighbors for	....	C17 Check
PLAT244_ALERT_4_C	Low 'Solvent'	Ueq as Compared to Neighbors of	N11	Check
PLAT244_ALERT_4_C	Low 'Solvent'	Ueq as Compared to Neighbors of	C29	Check
PLAT413_ALERT_2_C	Short Inter XH3 .. XHn	H5A .. H5AB ..	2.05	Ang.

Alert level G

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	...	10 Report
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms	.....	2 Report
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large.	8.90	Why ?
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records	3	Report
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	1	Report
PLAT230_ALERT_2_G	Hirshfeld Test Diff for	C7 -- C8 ..	9.3 su
PLAT230_ALERT_2_G	Hirshfeld Test Diff for	C7 -- C9 ..	6.0 su
PLAT231_ALERT_4_G	Hirshfeld Test (Solvent)	C29 -- C30 ..	8.9 su
PLAT231_ALERT_4_G	Hirshfeld Test (Solvent)	C29 -- C30A ..	8.1 su
PLAT300_ALERT_4_G	Atom Site Occupancy of >O11	is Constrained at	0.696 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <O13	is Constrained at	0.304 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C1	is Constrained at	0.696 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C3	is Constrained at	0.728 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C4	is Constrained at	0.728 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C8	is Constrained at	0.758 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C9	is Constrained at	0.758 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C10	is Constrained at	0.758 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C0AA	is Constrained at	0.304 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C1AA	is Constrained at	0.272 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C2AA	is Constrained at	0.272 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C3AA	is Constrained at	0.242 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C4AA	is Constrained at	0.242 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C5AA	is Constrained at	0.242 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >O11_a	is Constrained at	0.696 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <O13_a	is Constrained at	0.304 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C1_a	is Constrained at	0.696 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C3_a	is Constrained at	0.728 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C4_a	is Constrained at	0.728 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C8_a	is Constrained at	0.758 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C9_a	is Constrained at	0.758 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C10_a	is Constrained at	0.758 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C0AA_a	is Constrained at	0.304 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C1AA_a	is Constrained at	0.272 Check
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PLAT300_ALERT_4_G	Atom Site Occupancy of <C3AA_a	is Constrained at	0.242 Check

PLAT300_ALERT_4_G	Atom Site Occupancy of <C4AA_a is Constrained at	0.242	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C5AA_a is Constrained at	0.242	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C26A is Constrained at	0.532	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C30 is Constrained at	0.626	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of >C31 is Constrained at	0.626	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C27 is Constrained at	0.468	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C30A is Constrained at	0.374	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <C31A is Constrained at	0.374	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *N1 is Constrained at	0.500	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *C32 is Constrained at	0.500	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of *C33 is Constrained at	0.500	Check
PLAT301_ALERT_3_G	Main Residue Disorder Percentage =	18	Note
PLAT302_ALERT_4_G	Anion/Solvent Disorder Percentage =	53	Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms (1.50) in Resd. #	3	Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	21	Note
PLAT764_ALERT_4_G	Overcomplete CIF Bond List Detected (Rep/Expd) .	1.14	Ratio
PLAT793_ALERT_4_G	The Model has Chirality at C11 (Centro SPGR)	R	Verify
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	62	Note

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

0 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
 2 ALERT type 3 Indicator that the structure quality may be low
 50 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*, 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.

