

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: MnGd

Bond precision: C-C = 0.0192 Å

Wavelength=0.71073

Cell: a=12.9744(11) b=13.1470(9) c=13.1693(11)
 alpha=86.455(6) beta=77.910(7) gamma=66.666(7)
Temperature: 150 K

	Calculated	Reported
Volume	2016.3(3)	2016.3(3)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C50 H90 Gd2 Mn2 O22, 2(C6 H16 N), 0.666(H2 O)	C50 H90 Gd2 Mn2 O22, 2(C6 H16 N), 0.67(H2 O)
Sum formula	C62 H123.33 Gd2 Mn2 N2 O22.67	C62 H123.33 Gd2 Mn2 N2 O22.67
Mr	1683.99	1684.05
Dx, g cm ⁻³	1.387	1.387
Z	1	1
Mu (mm ⁻¹)	1.994	1.994
F000	868.7	869.0
F000'	869.35	
h,k,lmax	15,15,15	15,15,15
Nref	6882	6812
Tmin,Tmax	0.953,0.980	0.801,1.000
Tmin'	0.942	

Correction method= # Reported T Limits: Tmin=0.801 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 0.990

Theta(max)= 24.712

R(reflections)= 0.0813(3900)

wR2(reflections)= 0.1423(6812)

S = 1.024

Npar= 436

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

THETM01_ALERT_3_C The value of $\sin(\theta_{\max})/\lambda$ is less than 0.590
Calculated $\sin(\theta_{\max})/\lambda = 0.5882$

PLAT077_ALERT_4_C	Unitcell contains non-integer number of atoms ..	Please Check
PLAT213_ALERT_2_C	Atom C3 has ADP max/min Ratio	3.1 prolat
PLAT213_ALERT_2_C	Atom C23 has ADP max/min Ratio	3.7 prolat
PLAT220_ALERT_2_C	Large Non-Solvent C Ueq(max)/Ueq(min) Range	3.6 Ratio
PLAT234_ALERT_4_C	Large Hirshfeld Difference Gd1 -- C21 ..	0.16 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C17 -- C19 ..	0.18 Ang.
PLAT241_ALERT_2_C	High Ueq as Compared to Neighbors for	09 Check
PLAT242_ALERT_2_C	Low Ueq as Compared to Neighbors for	Gd1 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	C7 Check
PLAT242_ALERT_2_C	Low Ueq as Compared to Neighbors for	C12 Check
PLAT242_ALERT_2_C	Low Ueq as Compared to Neighbors for	C17 Check
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor	2.5 Note
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds	0.0192 Ang.



Alert level G

PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	4 Report
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms	3 Report
PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ	Please Check
PLAT068_ALERT_1_G	Reported F000 Differs from Calcd (or Missing)...	Please Check
PLAT300_ALERT_4_G	Atom Site Occupancy of <O12 is Constrained at	0.333 Check
PLAT302_ALERT_4_G	Anion/Solvent Disorder Percentage =	5 Note
PLAT764_ALERT_4_G	Overcomplete CIF Bond List Detected (Rep/Expd) .	1.24 Ratio
PLAT789_ALERT_4_G	Atoms with Negative _atom_site_disorder_group #	3 Check
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	2 Note
	C6 H16 N	
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	24 Note

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

2 **ALERT type 1** CIF construction/syntax error, inconsistent or missing data
11 **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
8 **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.

