

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: MgHDTMP_220C_publ

Bond precision:	C-C = 0.0153 A	Wavelength=1.54060	
Cell:	a=23.4691(11)	b=8.6872(4)	c=9.6165(5)
	alpha=90	beta=99.219(3)	gamma=90
Temperature:	493 K		
	Calculated	Reported	
Volume	1935.30(16)	1935.3(2)	
Space group	C 2/c	C 2/c	
Hall group	-C 2yc	-C 2yn	
Moiety formula	C10 Mg N2 O12 P4	?	
Sum formula	C10 Mg N2 O12 P4	C10 Mg N2 O12 P4	
Mr	488.31	488.31	
Dx,g cm-3	1.676	0.000	
Z	4	4	
Mu (mm-1)	4.454	0.000	
F000	968.0	0.0	
F000'	976.66		
h,k,lmax	19,7,8	19,7,8	
Nref	590	588	
Tmin,Tmax		1.000,1.000	
Tmin'			

Correction method= # Reported T Limits: Tmin=1.000 Tmax=1.000
AbsCorr = ?

Data completeness= 0.997 Theta(max)= 39.989

R(reflections)= wR2(reflections)=

S = Npar=

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						
PLAT701_ALERT_1_A	Bond	Calc	22.828(9), Rep	2.226(8), Dev..	2289.11	Sigma
	MG	-O1	1.555-101.457	.....	#	2 Check
PLAT701_ALERT_1_A	Bond	Calc	24.851(10), Rep	2.047(7), Dev..	2280.40	Sigma
	MG	-O4	1.555-101.456	.....	#	4 Check
PLAT701_ALERT_1_A	Bond	Calc	25.304(9), Rep	2.187(9), Dev..	2568.56	Sigma
	MG	-O5	1.555-101.456	.....	#	6 Check
PLAT701_ALERT_1_A	Bond	Calc	26.177(9), Rep	1.573(6), Dev..	2733.78	Sigma
	P1	-O2	1.555-101.455	.....	#	8 Check
PLAT701_ALERT_1_A	Bond	Calc	25.489(11), Rep	1.507(6), Dev..	2180.18	Sigma
	P1	-O3	1.555-101.455	.....	#	9 Check
PLAT701_ALERT_1_A	Bond	Calc	26.177(9), Rep	1.573(6), Dev..	2733.78	Sigma
	O2	-P1	1.555-101.455	.....	#	17 Check
PLAT701_ALERT_1_A	Bond	Calc	25.489(11), Rep	1.507(6), Dev..	2180.18	Sigma
	O3	-P1	1.555-101.455	.....	#	18 Check

The checkcif program is not interpreting correctly the cif file creates by the GSAS program. All distances are right as it is shown by mercury/ encifer programs

Alert level B						
PLAT340_ALERT_3_B	Low Bond Precision on	C-C Bonds	.....		0.01533	Ang.

Alert level C						
PLAT127_ALERT_1_C	Implicit Hall Symbol	Inconsistent with Explicit			-C	2yn

Alert level G						
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension				2	Info
PLAT040_ALERT_1_G	No H-atoms in this Carbon Containing Compound ..					Please Check
PLAT092_ALERT_4_G	Check: Wavelength Given is not Cu,Ga,Mo,Ag,In Ka				1.54060	Ang.
PLAT152_ALERT_1_G	The Supplied and Calc. Volume s.u. Differ by ...				-4	Units
PLAT432_ALERT_2_G	Short Inter X...Y Contact	O1	..C1		2.69	Ang.
		1/2-x,-1/2+y,3/2-z	=	102_546		Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact	O2	..C1		2.69	Ang.
		x,2-y,-1/2+z	=	-2_574		Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact	O3	..C1		2.81	Ang.
		x,2-y,-1/2+z	=	-2_574		Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact	O4	..C2		3.02	Ang.
		1/2-x,1/2-y,-z	=	-101_555		Check
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	.....			31	Note
PLAT981_ALERT_1_G	No non-zero f" Anomalous Scattering Values Found					Please Check
PLAT986_ALERT_1_G	No non-zero f' Anomalous Scattering Values Found					Please Check

- 7 **ALERT level A** = Most likely a serious problem - resolve or explain
1 **ALERT level B** = A potentially serious problem, consider carefully
1 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
11 **ALERT level G** = General information/check it is not something unexpected
- 12 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
4 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
1 ALERT type 4 Improvement, methodology, query or suggestion
1 ALERT type 5 Informative message, check
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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.

