

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) TPP_Al_azpMe2_90K

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: TPP_Al_azpMe2_90K

Bond precision: C-C = 0.0046 Å Wavelength=0.71073

Cell: a=11.8738 (19) b=13.224 (2) c=16.406 (3)
 alpha=81.934 (2) beta=81.586 (2) gamma=64.230 (2)
Temperature: 90 K

	Calculated	Reported
Volume	2286.4 (7)	2286.4 (6)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C28 H24 Al N4 O4, C24 H20 P, C H4 O, O	?
Sum formula	C53 H48 Al N4 O6 P	C53 H48 Al N4 O6 P
Mr	894.90	894.93
Dx, g cm ⁻³	1.300	1.300
Z	2	2
Mu (mm ⁻¹)	0.136	0.136
F000	940.0	940.0
F000'	940.71	
h, k, lmax	15, 16, 20	15, 16, 20
Nref	9688	9378
Tmin, Tmax	0.973, 0.984	0.970, 0.990
Tmin'	0.960	

Correction method= # Reported T Limits: Tmin=0.970 Tmax=0.990
AbsCorr = ?

Data completeness= 0.968 Theta (max)= 26.730

R(reflections)= 0.0703 (7563)

wR2(reflections)=
0.2036 (9378)

S = 1.039

Npar= 739

PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	2	Report
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records	1	Report
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) All --01 .	6.3	s.u.
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)	43%	Note
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	3	Note
PLAT767_ALERT_4_G	INS Embedded LIST 6 Instruction Should be LIST 4		Please Check
PLAT802_ALERT_4_G	CIF Input Record(s) with more than 80 Characters	1	Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	887	Note
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .		Please Do !
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).	3	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	131	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	1.3	Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	6	Info

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

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

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

Publication of your CIF in IUCr journals

A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E* or *IUCrData*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

Publication of your CIF in other journals

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

PLATON version of 19/02/2022; check.def file version of 19/02/2022

