

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 2Et2O

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: 2Et2O

Bond precision: C-C = 0.0047 Å Wavelength=0.71073

Cell: a=12.6870(4) b=15.9515(5) c=16.0665(5)
 alpha=90 beta=90 gamma=90
Temperature: 103 K

	Calculated	Reported
Volume	3251.49(18)	3251.48(18)
Space group	P 21 21 21	P 21 21 21
Hall group	P 2ac 2ab	P 2ac 2ab
Moiety formula	C34 H32 Al F10 O P	C34 H32 Al F10 O P
Sum formula	C34 H32 Al F10 O P	C34 H32 Al F10 O P
Mr	704.55	704.54
Dx,g cm-3	1.439	1.439
Z	4	4
Mu (mm-1)	0.197	0.197
F000	1448.0	1448.0
F000'	1449.67	
h,k,lmax	15,19,19	15,19,19
Nref	5889[3307]	5889
Tmin,Tmax	0.986,0.994	0.850,1.000
Tmin'	0.980	

Correction method= # Reported T Limits: Tmin=0.850 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 1.78/1.00 Theta(max)= 25.248

R(reflections)= 0.0336(5163) wR2(reflections)= 0.0698(5889)

S = 1.051 Npar= 432

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.

PLAT340 ALERT 3 C Low Bond Precision on C-C Bonds 0.00469 Ang.

PLAT328_ALERT_4_G	Possible Missing H on sp3? Phosphorus	P2 Check
PLAT434_ALERT_2_G	Short Inter HL..HL Contact F10 ..F15	2.79 Ang.
	1/2-x,1-y,-1/2+z =	2_564 Check
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .	Please Do !
PLAT898_ALERT_4_G	Second Reported H-M Symbol in CIF Ignored	! Check
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	71% Note
PLAT960_ALERT_3_G	Number of Intensities with I < - 2*sig(I) ...	3 Check
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	3 Info

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

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1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
2 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
2 ALERT type 4 Improvement, methodology, query or suggestion
0 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.

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.

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

Datablock 2Et2O - ellipsoid plot

