

## checkCIF/PLATON report

Structure factors have been supplied for datablock(s) bmk1933

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: bmk1933

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Bond precision:	C-C = 0.0026 Å	Wavelength=0.71073	
Cell:	a=7.3166 (3)	b=20.3011 (11)	c=11.6776 (5)
	alpha=90	beta=97.266 (4)	gamma=90
Temperature:	298 K		
	Calculated	Reported	
Volume	1720.60 (14)	1720.60 (14)	
Space group	P 21/n	P 21/n	
Hall group	-P 2yn	-P 2yn	
Moiety formula	C19 H16 N6 O3	C19 H16 N6 O3	
Sum formula	C19 H16 N6 O3	C19 H16 N6 O3	
Mr	376.38	376.38	
Dx, g cm <sup>-3</sup>	1.453	1.453	
Z	4	4	
Mu (mm <sup>-1</sup> )	0.103	0.103	
F000	784.0	784.0	
F000'	784.32		
h, k, lmax	10, 28, 16	9, 26, 16	
Nref	4949	4168	
Tmin, Tmax	0.979, 0.990	0.848, 1.000	
Tmin'	0.973		

Correction method= # Reported T Limits: Tmin=0.848 Tmax=1.000  
AbsCorr = GAUSSIAN

Data completeness= 0.842      Theta(max)= 29.821

R(reflections)= 0.0494 ( 3144)	wR2(reflections)= 0.1354 ( 4168)
S = 1.103	Npar= 256

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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.

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#### **Alert level C**

PLAT906_ALERT_3_C Large K Value in the Analysis of Variance .....	13.768 Check
PLAT910_ALERT_3_C Missing # of FCF Reflection(s) Below Theta(Min).	6 Note

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#### **Alert level G**

PLAT007_ALERT_5_G Number of Unrefined Donor-H Atoms .....	2 Report
PLAT883_ALERT_1_G No Info/Value for _atom_sites_solution_primary .	Please Do !
PLAT912_ALERT_4_G Missing # of FCF Reflections Above STh/L= 0.600	708 Note
PLAT941_ALERT_3_G Average HKL Measurement Multiplicity .....	3.7 Low
PLAT951_ALERT_5_G Calculated (ThMax) and CIF-Reported Kmax Differ	2 Units
PLAT957_ALERT_1_G Calculated (ThMax) and Actual (FCF) Kmax Differ	2 Units
PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density.	10 Info

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- 0 **ALERT level A** = Most likely a serious problem - resolve or explain  
0 **ALERT level B** = A potentially serious problem, consider carefully  
2 **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

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

