checkCIF/PLATON report

Structure factors have been supplied for datablock(s) angel1

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.

Datablock: angel1

Bond precision:	C-C = 0.0080 A	Wavelength=0.71073		
Cell:	a=6.5034(9)	b=20.107(3)	c=9.4107(13)	
	alpha=90	beta=108.768(6)	gamma=90	
Temperature:	296 K			
	Calculated	Reported		
Volume	1165.2(3)	1165.1(3)		
Space group	P 21/c	P 21/c		
Hall group	-P 2ybc	-P 2ybc	-P 2ybc	
Moiety formula	C12 H15 N O2	C12 H15 N	C12 H15 N O2	
Sum formula	C12 H15 N O2	C12 H15 N	C12 H15 N O2	
Mr	205.25	205.25	205.25	
Dx,g cm-3	1.170	1.170		
Z	4	4		
Mu (mm-1)	0.080	0.080		
F000	440.0	440.0		
F000'	440.20			
h,k,lmax	5,17,8	5,17,8		
Nref	786	785		
Tmin, Tmax	0.978,0.983	0.978,0.9	83	
Tmin'	0.978			
Correction method= # Reported T Limits: Tmin=0.978 Tmax=0.983 AbsCorr = MULTI-SCAN				
Data completene:	ss= 0.999	Theta(max) = 17.84	8	
R(reflections) =	0.0451(609)		wR2(reflections) = 0.1162(785)	
S = 1.068	Npar=	143	0.1101	
	17			

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

THETM01_ALERT_3_A The value of $sine(theta_max)/wavelength$ is less than 0.550 Calculated $sin(theta_max)/wavelength = 0.4312$

Author Response: This alarm is due to the crystal diffracting weakly at high angle.

PLAT088_ALERT_3_A Poor Data / Parameter Ratio 5.49 Note

Author Response: The alarm of poor data / parameter ratio is due to the crystal which diffracted quite weakly at high angle.

Alert level C

Alert level G

- 2 ALERT level A = Most likely a serious problem resolve or explain
- 0 ALERT level B = A potentially serious problem, consider carefully
- 5 **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
- 4 ALERT type 2 Indicator that the structure model may be wrong or deficient
- 7 ALERT type 3 Indicator that the structure quality may be low
- O 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* 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 12/09/2022; check.def file version of 09/08/2022

