

## checkCIF/PLATON report

Structure factors have been supplied for datablock(s) mce-mecn-100k

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: mce-mecn-100k**

Bond precision: C-C = 0.0021 Å

Wavelength=1.54184

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Cell:      a=6.5791(3)
           alpha=89.248(2)
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b=7.8311 (2)      c=9.9914 (2)  
beta=86.118 (3)      gamma=83.415 (3)

Temperature: 100 K

	Calculated
Volume	510.20(3)
Space group	P -1
Hall group	-P 1
Moiety formula	C8 H9 N O2, C2 H3 N
Sum formula	C10 H12 N2 O2
Mr	192.22
Dx, g cm-3	1.251
Z	2
Mu (mm-1)	0.729
F000	204.0
F000'	204.64
h, k, lmax	8, 9, 12
Nref	2224
Tmin, Tmax	0.767, 0.852
Tmin'	0.696

```
Reported
510.20 (3)
P -1
-P 1
C8 H9 N O2, C2 H3 N
C10 H12 N2 O2
192.22
1.251
2
0.729
204.0

8,9,12
2035
0.334,1.000
```

Correction method= # Reported T Limits: Tmin=0.334 Tmax=1.000  
AbsCorr = MULTI-SCAN

Data completeness= 0.915

$$\text{Theta (max)} = 79.517$$

R(reflections)= 0.0536( 1827)

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wR2 (reflections)=  
0.1569 ( 2035)
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$$S = 1.069$$

Npar= 175

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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

PLAT029\_ALERT\_3\_C \_diffn\_measured\_fraction\_theta\_full value Low . 0.978 Why?  
PLAT906\_ALERT\_3\_C Large K Value in the Analysis of Variance ..... 2.068 Check  
PLAT911\_ALERT\_3\_C Missing FCF Refl Between Thmin & STh/L= 0.600 41 Report

2	0	0,	-7	1	0,	-7	2	0,	-7	3	0,	7	-3	1,	-7	-2	1,
-7	1	1,	-7	2	1,	-7	3	1,	-6	4	1,	-6	5	1,	-5	6	1,
-7	-2	2,	-7	1	2,	-7	2	2,	-6	2	2,	-6	3	2,	-6	4	2,
-7	0	3,	-7	1	3,	-7	2	3,	-6	2	3,	-6	3	3,	-6	4	3,
-5	5	3,	-4	7	3,	-7	0	4,	-7	1	4,	-6	2	4,	-3	2	4,
-6	3	4,	-6	4	4,	-6	2	5,	-6	3	5,	-6	2	6,	-4	5	6,
-4	4	7,	-4	5	7,	-5	1	8,	-5	2	8,	-2	4	10,			

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### Alert level G

PLAT912\_ALERT\_4\_G Missing # of FCF Reflections Above STh/L= 0.600 148 Note  
PLAT969\_ALERT\_5\_G The 'Henn et al.' R-Factor-gap value ..... 7.914 Note  
Predicted wR2: Based on SigI\*\*2 1.98 or SHELX Weight 14.68  
PLAT978\_ALERT\_2\_G Number C-C Bonds with Positive Residual Density. 0 Info  
PLAT992\_ALERT\_5\_G Repd & Actual \_reflns\_number\_gt Values Differ by 4 Check

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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
- 3 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
- 4 **ALERT level G** = General information/check it is not something unexpected

- 0 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.

