



## Supporting Information

for

### First synthesis of acylated nitrocyclopropanes

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### CheckCIF/PLATON report for compound 10

## checkCIF/PLATON report

Structure factors have been supplied for datablock(s) RK\_a

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: RK\_a

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Bond precision:    C-C = 0.0035 A                      Wavelength=0.71069

Cell:                      a=14.972 (5)              b=8.905 (5)              c=15.738 (3)  
                                    alpha=90                      beta=95.65 (2)              gamma=90

Temperature:              298 K

	Calculated	Reported
Volume	2088.1 (14)	2088.1 (14)
Space group	P 21/n	P 21/n
Hall group	-P 2yn	-P 2yn
Moiety formula	C19 H16 Cl N5 O7	C19 H16 Cl N5 O7
Sum formula	C19 H16 Cl N5 O7	C19 H16 Cl N5 O7
Mr	461.82	461.82
Dx, g cm <sup>-3</sup>	1.469	1.469
Z	4	4
Mu (mm <sup>-1</sup> )	0.236	0.236
F000	952.0	952.0
F000'	953.08	
h, k, lmax	19, 11, 20	19, 11, 20
Nref	4816	4814
Tmin, Tmax	0.972, 0.977	
Tmin'	0.954	

Correction method= Not given

Data completeness= 1.000                      Theta (max)= 27.496

R(reflections)= 0.0439 ( 2788)

wR2(reflections)=  
0.1387 ( 4814)

S = 1.026

Npar= 291

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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**

PLAT230\_ALERT\_2\_C Hirshfeld Test Diff for O4 --N4 . 5.1 s.u.  
PLAT905\_ALERT\_3\_C Negative K value in the Analysis of Variance ... -1.618 Report

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● **Alert level G**

PLAT007\_ALERT\_5\_G Number of Unrefined Donor-H Atoms ..... 1 Report  
PLAT398\_ALERT\_2\_G Deviating C-O-C Angle From 120 for O1 . 107.3 Degree  
PLAT431\_ALERT\_2\_G Short Inter HL..A Contact C11 ..04 . 3.03 Ang.  
-1/2+x,1/2-y,1/2+z = 4\_566 Check  
PLAT793\_ALERT\_4\_G Model has Chirality at C1 (Centro SPGR) R Verify  
PLAT793\_ALERT\_4\_G Model has Chirality at C2 (Centro SPGR) R Verify  
PLAT910\_ALERT\_3\_G Missing # of FCF Reflection(s) Below Theta(Min). 2 Note  
PLAT941\_ALERT\_3\_G Average HKL Measurement Multiplicity ..... 1.0 Low  
PLAT978\_ALERT\_2\_G Number C-C Bonds with Positive Residual Density. 2 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  
8 **ALERT level G** = General information/check it is not something unexpected

0 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  
3 ALERT type 3 Indicator that the structure quality may be low  
2 ALERT type 4 Improvement, methodology, query or suggestion  
1 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.

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**PLATON version of 28/11/2022; check.def file version of 28/11/2022**

