

## checkCIF/PLATON report

Structure factors have been supplied for datablock(s) wky

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: wky

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Bond precision:	C-C = 0.0092 Å	Wavelength=0.71073	
Cell:	a=9.799 (3)	b=25.394 (9)	c=18.655 (7)
	alpha=90	beta=91.207 (13)	gamma=90
Temperature:	176 K		
	Calculated	Reported	
Volume	4641 (3)	4641 (3)	
Space group	P 21/c	P 1 21/c 1	
Hall group	-P 2ybc	-P 2ybc	
Moiety formula	C46 H56 O12 [+ solvent]	C46 H56 O12	
Sum formula	C46 H56 O12 [+ solvent]	C46 H56 O12	
Mr	800.91	800.90	
Dx, g cm <sup>-3</sup>	1.146	1.146	
Z	4	4	
Mu (mm <sup>-1</sup> )	0.082	0.082	
F000	1712.0	1712.0	
F000'	1712.93		
h, k, lmax		12, 31, 23	
Nref		9361	
Tmin, Tmax	0.984, 0.984	0.662, 0.745	
Tmin'	0.984		

Correction method= # Reported T Limits: Tmin=0.662 Tmax=0.745  
AbsCorr = ?

Data completeness=      Theta(max)= 26.330

R(reflections)= 0.1295 ( 4912)	wR2(reflections)=
S = 1.062	0.3101 ( 9361)
Npar= 524	

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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 B

PLAT031_ALERT_4_B	Refined Extinction Parameter Within Range of ...	1.800 Sigma
PLAT230_ALERT_2_B	Hirshfeld Test Diff for O005 --C01P .	7.1 s.u.
PLAT360_ALERT_2_B	Short C(sp3)-C(sp3) Bond C01F - C01M .	1.33 Ang.
PLAT410_ALERT_2_B	Short Intra H...H Contact H010 ..H01Q .	1.89 Ang.
	x,y,z =	1_555 Check

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### Alert level C

CRYSC01\_ALERT\_1\_C The word below has not been recognised as a standard identifier.

dull

CRYSC01\_ALERT\_1\_C The word below has not been recognised as a standard identifier.

whiteish

PLAT052_ALERT_1_C	Info on Absorption Correction Method	Not Given	Please Do !
PLAT082_ALERT_2_C	High R1 Value .....		0.13 Report
PLAT084_ALERT_3_C	High wR2 Value (i.e. > 0.25) .....		0.31 Report
PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density ....		2.23 Report
PLAT220_ALERT_2_C	NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range		3.3 Ratio
PLAT230_ALERT_2_C	Hirshfeld Test Diff for C01F --C01M .		5.1 s.u.
PLAT230_ALERT_2_C	Hirshfeld Test Diff for C01I --C01P .		5.2 s.u.
PLAT234_ALERT_4_C	Large Hirshfeld Difference O00G --C01C .		0.20 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference O00H --C019 .		0.17 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference O00H --C01M .		0.20 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference O00I --C01I .		0.19 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference O00O --C01O .		0.18 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference O00R --C01J .		0.16 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C00Z --C012 .		0.17 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C01E --C01H .		0.18 Ang.
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C01C	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C01E	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C01F	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C01I	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C01K	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	C01O	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	O004	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	O00G	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	O00H	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	O00I	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	O00O	Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including O001	0.106	Check
PLAT340_ALERT_3_C	Low Bond Precision on C-C Bonds .....	0.00918	Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond C019 - C01D .		1.42 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond C01B - C01L .		1.43 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond C01I - C01P .		1.37 Ang.
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance .....	9.034	Check
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance .....	3.289	Check
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance .....	7.151	Check
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance .....	2.308	Check
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance .....	4.601	Check

PLAT906\_ALERT\_3\_C Large K Value in the Analysis of Variance ..... 2.597 Check  
 PLAT911\_ALERT\_3\_C Missing FCF Refl Between Thmin & STh/L= 0.600 3 Report  
 9 19 0, -4 0 14, -1 13 20,

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● **Alert level G**

PLAT083\_ALERT\_2\_G SHELXL Second Parameter in WGHT Unusually Large 8.08 Why ?  
 PLAT605\_ALERT\_4\_G Largest Solvent Accessible VOID in the Structure 201 A\*\*3  
 PLAT720\_ALERT\_4\_G Number of Unusual/Non-Standard Labels ..... 108 Note

O001	O002	O003	O004	O005	O006	C007	C008
C009	C00A	H00A	C00B	H00B	C00C	C00D	C00E
C00F	O00G	O00H	O00I	C00J	C00K	H00K	O00L
C00M	H00M	C00N	H00N	O00O	C00P	H00P	C00Q
H00Q	O00R	C00S	H00S	C00T	C00U	H00U	C00V
H00V	C00W	H00W	C00X	H00X	C00Y	H00Y	C00Z
H00Z	C010	H010	C011	H011	C012	C014	H01A
H01B	C015	H01C	H01D	C017	H01E	H01F	C018
H01G	H01H	C019	H01I	H01J	C01B	H01K	H01L
C01C	H01M	H01N	C01D	H01O	H01P	C01E	H01Q
H01R	C01F	H01S	H01T	C01G	H01U	H01V	C01H
H01W	H01X	C01I	H01Y	C01J	H01Z	Ha	C01K
H01	Hb	C01L	Hc	C01M	Hd	C01N	He
C01O	Hf	C01P	Hg				

PLAT868\_ALERT\_4\_G ALERTS Due to the Use of \_smtbx\_masks Suppressed ! Info  
 PLAT910\_ALERT\_3\_G Missing # of FCF Reflection(s) Below Theta (Min). 2 Note  
 0 2 0, 0 1 1,  
 PLAT912\_ALERT\_4\_G Missing # of FCF Reflections Above STh/L= 0.600 72 Note  
 PLAT978\_ALERT\_2\_G Number C-C Bonds with Positive Residual Density. 0 Info

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- 0 **ALERT level A** = Most likely a serious problem - resolve or explain  
 4 **ALERT level B** = A potentially serious problem, consider carefully  
 40 **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
- 3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
 25 ALERT type 2 Indicator that the structure model may be wrong or deficient  
 10 ALERT type 3 Indicator that the structure quality may be low  
 13 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.

### **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.

