

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

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 ⁻³	1.146	1.146
Z	4	4
Mu (mm ⁻¹)	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)=
0.3101 (9361)
S = 1.062 Npar= 524

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 B

PLAT031_ALERT_4_B	Refined Extinction Parameter Within Range of ...	1.800	Sigma
PLAT230_ALERT_2_B	Hirshfeld Test Diff for 0005 --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		

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 000G --C01C .	0.20	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference 000H --C019 .	0.17	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference 000H --C01M .	0.20	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference 000I --C01I .	0.19	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference 000O --C01O .	0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference 000R --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	0004	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	000G	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	000H	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	000I	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	000O	Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including 0001	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,		

● 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
0001 0002 0003 0004 0005 0006 C007 C008		
C009 C00A H00A C00B H00B C00C C00D C00E		
C00F 000G 000H 000I C00J C00K H00K 000L		
C00M H00M C00N H00N 000O C00P H00P C00Q		
H00Q 000R 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

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

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 29/11/2023; check.def file version of 14/09/2023

Datablock wky - ellipsoid plot

