

checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

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: mj_305

Bond precision:	C-C = 0.0028 A	Wavelength=0.71073	
Cell:	a=16.7366(5)	b=14.4586(3)	c=31.8111(6)
	alpha=90	beta=93.707(2)	gamma=90
Temperature:	293 K		
	Calculated	Reported	
Volume	7681.8(3)	7681.8(3)	
Space group	P 21/n	P 1 21/n 1	
Hall group	-P 2yn	-P 2yn	
Moiety formula	C59 H63 N7 O, C32 H34 N2 O2 [+ solvent]	4(C32 H34 N2 O2), 4(C59 H63 N7 O)	
Sum formula	C91 H97 N9 O3 [+ solvent]	C364 H388 N36 O12	
Mr	1364.78	5459.36	
Dx, g cm ⁻³	1.180	1.180	
Z	4	1	
Mu (mm ⁻¹)	0.072	0.069	
F000	2920.0	2533.0	
F000'	2921.04		
h,k,lmax	24,21,46	22,20,44	
Nref	24753	20856	
Tmin,Tmax	0.998,0.999	0.671,1.000	
Tmin'	0.988		

Correction method= # Reported T Limits: Tmin=0.671 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 0.843 Theta(max)= 31.130

R(reflections)= 0.0624(12665) wR2(reflections)= 0.1773(20856)

S = 1.036 Npar= 940

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

PLAT230_ALERT_2_B Hirshfeld Test Diff for C02M --C02P . 7.3 s.u.

Author Response: Differences in the components of the anisotropic displacement paramete

Alert level C

ABSMU01_ALERT_1_C The ratio of given/expected absorption coefficient lies outside the range 0.99 <> 1.01

Calculated value of mu = 0.072

Value of mu given = 0.069

PLAT220_ALERT_2_C NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range 3.6 Ratio

PLAT222_ALERT_3_C NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range 4.4 Ratio

PLAT230_ALERT_2_C Hirshfeld Test Diff for C01Q --C02Q . 5.3 s.u.

Author Response: Differences in the components of the anisotropic displacement paramete

PLAT230_ALERT_2_C Hirshfeld Test Diff for C020 --C02P . 6.6 s.u.

Author Response: Differences in the components of the anisotropic displacement paramete

Alert level G

PLAT013_ALERT_1_G N.O.K. _shelx_hkl_checksum Found in CIF Please Check

PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ Please Check

PLAT045_ALERT_1_G Calculated and Reported Z Differ by a Factor ... 4.00 Check

PLAT068_ALERT_1_G Reported F000 Differs from Calcd (or Missing)... Please Check

PLAT199_ALERT_1_G Reported _cell_measurement_temperature (K) 293 Check

PLAT200_ALERT_1_G Reported _diffrn_ambient_temperature (K) 293 Check

PLAT605_ALERT_4_G Largest Solvent Accessible VOID in the Structure 84 A**3

PLAT720_ALERT_4_G Number of Unusual/Non-Standard Labels 199 Note

PLAT802_ALERT_4_G CIF Input Record(s) with more than 80 Characters 1 Info

PLAT941_ALERT_3_G Average HKL Measurement Multiplicity 3.7 Low

PLAT950_ALERT_5_G Calculated (ThMax) and CIF-Reported Hmax Differ 2 Units

PLAT952_ALERT_5_G Calculated (ThMax) and CIF-Reported Lmax Differ 2 Units

-
- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
 - 1 **ALERT level B** = A potentially serious problem, consider carefully
 - 5 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
 - 12 **ALERT level G** = General information/check it is not something unexpected

7 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
2 ALERT type 3 Indicator that the structure quality may be low
3 ALERT type 4 Improvement, methodology, query or suggestion
2 ALERT type 5 Informative message, check

Validation response form

Please find below a validation response form (VRF) that can be filled in and pasted into your CIF.

```
# start Validation Reply Form
_vrf_ABSMU01_mj_305
;
PROBLEM: The ratio of given/expected absorption coefficient lies
RESPONSE: ...
;
_vrf_PLAT220_mj_305
;
PROBLEM: NonSolvent   Resd 1   C   Ueq(max)/Ueq(min) Range           3.6 Ratio
RESPONSE: ...
;
_vrf_PLAT222_mj_305
;
PROBLEM: NonSolvent Resd 1   H   Uiso(max)/Uiso(min) Range           4.4 Ratio
RESPONSE: ...
;
# end Validation Reply Form
```

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 05/12/2020; check.def file version of 05/12/2020

Datablock mj_305 - ellipsoid plot

