

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 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: a

Bond precision:	C-C = 0.0032 A	Wavelength=1.54184
Cell:	a=8.9459 (1)	b=17.2753 (2) c=21.8372 (3)
	alpha=110.107 (1)	beta=91.709 (1) gamma=93.859 (1)
Temperature:	100 K	
	Calculated	Reported
Volume	3156.86 (7)	3156.86 (7)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C43 H61 N7 O9, C16 H32 O8	C16 H32 O8, C43 H61 N7 O9
Sum formula	C59 H93 N7 O17	C59 H93 N7 O17
Mr	1172.40	1172.40
Dx, g cm ⁻³	1.233	1.233
Z	2	2
Mu (mm ⁻¹)	0.744	0.744
F000	1264.0	1264.0
F000'	1268.05	
h,k,lmax	11,21,27	11,21,27
Nref	13279	12687
Tmin,Tmax	0.875,0.915	0.297,1.000
Tmin'	0.824	

Correction method= # Reported T Limits: Tmin=0.297 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 0.955 Theta(max)= 76.544

R(reflections)= 0.0730 (10763)	wR2(reflections)= 0.2149 (12687)
S = 1.062	Npar= 820

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 C

DIFMX02_ALERT_1_C The maximum difference density is > 0.1*ZMAX*0.75

The relevant atom site should be identified.

PLAT042_ALERT_1_C Calc. and Reported MoietyFormula Strings Differ Please Check

Calc: C43 H61 N7 O9, C16 H32 O8

Rep.: C16 H32 O8, C43 H61 N7 O9

PLAT094_ALERT_2_C Ratio of Maximum / Minimum Residual Density 2.10 Report

PLAT097_ALERT_2_C Large Reported Max. (Positive) Residual Density 0.77 eA-3

PLAT230_ALERT_2_C Hirshfeld Test Diff for N3 --N4 . 5.1 s.u.

PLAT906_ALERT_3_C Large K Value in the Analysis of Variance 3.832 Check

PLAT911_ALERT_3_C Missing FCF Refl Between Thmin & STh/L= 0.600 57 Report

-10 4 0, -8-12 1, 10 -3 1, -10 4 1, 2 16 1, 10 -2 2,

-10 3 2, -10 4 2, 2 16 2, -10 2 3, -10 3 3, -10 4 3,

-10 5 3, -10 6 3, -10 7 3, 10 -1 4, -10 3 4, -10 4 4,

-10 5 4, -10 6 4, -10 7 4, 7-16 5, -9-10 5, 10 0 5,

-10 1 5, 10 1 5, -10 3 5, -10 4 5, -10 5 5, -10 6 5,

(27 More Missing: see the .ckf listing file)



Alert level G

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 14 Note

PLAT003_ALERT_2_G Number of Uiso or U(i,j) Restrained non-H-Atoms 14 Report

PLAT007_ALERT_5_G Number of Unrefined Donor-H Atoms 1 Report
H1

PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large 0.15 Report

PLAT154_ALERT_1_G The s.u.'s on the Cell Angles are Equal ..(Note) 0.001 Degree

PLAT175_ALERT_4_G The CIF-Embedded .res File Contains SAME Records 2 Report

PLAT178_ALERT_4_G The CIF-Embedded .res File Contains SIMU Records 2 Report

PLAT188_ALERT_3_G A Non-default SIMU Restraint Value has been used 0.0100 Report

PLAT188_ALERT_3_G A Non-default SIMU Restraint Value has been used 0.0100 Report

PLAT189_ALERT_3_G A Non-default SAME Restraint Value for First Par 0.0100 Report

PLAT189_ALERT_3_G A Non-default SAME Restraint Value for First Par 0.0100 Report

PLAT301_ALERT_3_G Main Residue Disorder(Resd 1) 10% Note

PLAT412_ALERT_2_G Short Intra XH3 .. XHn H31 ..H34F . 2.05 Ang.

x,y,z = 1_555 Check

PLAT412_ALERT_2_G Short Intra XH3 .. XHn H37 ..H42C . 2.09 Ang.

x,y,z = 1_555 Check

PLAT412_ALERT_2_G Short Intra XH3 .. XHn H37 ..H35A . 2.14 Ang.

x,y,z = 1_555 Check

PLAT412_ALERT_2_G Short Intra XH3 .. XHn H37 ..H42F . 2.08 Ang.

x,y,z = 1_555 Check

PLAT860_ALERT_3_G Number of Least-Squares Restraints 120 Note

PLAT912_ALERT_4_G Missing # of FCF Reflections Above STh/L= 0.600 535 Note

PLAT933_ALERT_2_G Number of HKL-OMIT Records in Embedded .res File 3 Note

-8 5 12, -10 2 9, -10 1 5,

PLAT941_ALERT_3_G Average HKL Measurement Multiplicity 3.2 Low

PLAT969_ALERT_5_G The 'Henn et al.' R-Factor-gap value 3.396 Note

Predicted wr2: Based on SigI**2 6.33 or SHELX Weight 20.23

PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density. 6 Info

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

3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
12 ALERT type 2 Indicator that the structure model may be wrong or deficient
9 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

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.

Datablock a - ellipsoid plot

