

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) ye393P-1_as

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: ye393P-1_as

Bond precision:	C-C = 0.0080 A	Wavelength=0.71073	
Cell:	a=11.5152 (6)	b=8.3196 (4)	c=44.227 (2)
	alpha=90	beta=90	gamma=90
Temperature:	296 K		
	Calculated	Reported	
Volume	4237.0 (4)	4237.0 (4)	
Space group	P b c a	P b c a	
Hall group	-P 2ac 2ab	-P 2ac 2ab	
Moiety formula	C25 H24 O4	C25 H24 O4	
Sum formula	C25 H24 O4	C25 H24 O4	
Mr	388.44	388.44	
Dx, g cm ⁻³	1.218	1.218	
Z	8	8	
Mu (mm ⁻¹)	0.082	0.082	
F000	1648.0	1648.0	
F000'	1648.81		
h, k, lmax	13, 9, 51	13, 9, 51	
Nref	3434	3432	
Tmin, Tmax	0.988, 0.991	0.789, 1.000	
Tmin'	0.988		

Correction method= # Reported T Limits: Tmin=0.789 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 0.999 Theta(max)= 24.248

R(reflections)= 0.1075 (2065)	wR2(reflections)=
S = 1.087	0.2736 (3432)
Npar= 313	

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

RINTA01_ALERT_3_B The value of Rint is greater than 0.18

Rint given 0.184

PLAT020_ALERT_3_B The Value of Rint is Greater Than 0.12 0.184 Report



Alert level C

THETM01_ALERT_3_C The value of sine(theta_max)/wavelength is less than 0.590

Calculated sin(theta_max)/wavelength = 0.5778

PLAT082_ALERT_2_C High R1 Value 0.11 Report

PLAT084_ALERT_3_C High wR2 Value (i.e. > 0.25) 0.27 Report

PLAT220_ALERT_2_C NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range 3.3 Ratio

PLAT234_ALERT_4_C Large Hirshfeld Difference O27 --C26 . 0.17 Ang.

PLAT340_ALERT_3_C Low Bond Precision on C-C Bonds 0.00804 Ang.

PLAT368_ALERT_2_C Short C(sp2)-C(sp2) Bond C24 - C25 . 1.22 Ang.

PLAT906_ALERT_3_C Large K Value in the Analysis of Variance 39.938 Check

PLAT906_ALERT_3_C Large K Value in the Analysis of Variance 5.962 Check

PLAT906_ALERT_3_C Large K Value in the Analysis of Variance 2.581 Check



Alert level G

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 15 Note

PLAT003_ALERT_2_G Number of Uiso or Uij Restrained non-H Atoms ... 10 Report

PLAT083_ALERT_2_G SHELXL Second Parameter in WGHT Unusually Large 8.13 Why ?

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 1 Report

PLAT186_ALERT_4_G The CIF-Embedded .res File Contains ISOR Records 1 Report

PLAT301_ALERT_3_G Main Residue Disorder(Resd 1) 17% Note

PLAT793_ALERT_4_G Model has Chirality at C12 (Centro SPGR) S Verify

PLAT860_ALERT_3_G Number of Least-Squares Restraints 213 Note

PLAT910_ALERT_3_G Missing # of FCF Reflection(s) Below Theta(Min). 1 Note

PLAT933_ALERT_2_G Number of HKL-OMIT Records in Embedded .res File 2 Note

PLAT955_ALERT_1_G Reported (CIF) and Actual (FCF) Lmax Differ by . 1 Units

PLAT965_ALERT_2_G The SHELXL WEIGHT Optimisation has not Converged Please Check

PLAT967_ALERT_5_G Note: Two-Theta Cutoff Value in Embedded .res .. 48.5 Degree

PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density. 4 Info

0 **ALERT level A** = Most likely a serious problem - resolve or explain

2 **ALERT level B** = A potentially serious problem, consider carefully

10 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight

15 **ALERT level G** = General information/check it is not something unexpected

1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data

9 ALERT type 2 Indicator that the structure model may be wrong or deficient

11 ALERT type 3 Indicator that the structure quality may be low

5 ALERT type 4 Improvement, methodology, query or suggestion

1 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.

