

# checkCIF/PLATON report for Compound 37

No syntax errors found.      CIF dictionary      Interpreting this report

**Datablock: sb1222pa1**

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Bond precision:    C-C = 0.0009 Å

Wavelength=0.71073

Cell:                a=9.0316(2)                b=10.4052(2)                c=10.9083(3)  
                      alpha=99.955(1)                beta=97.189(1)                gamma=97.411(1)  
Temperature:        172 K

	Calculated	Reported
Volume	989.77(4)	989.77(4)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C25 H23 N O4	C25 H23 N O4
Sum formula	C25 H23 N O4	C25 H23 N O4
Mr	401.44	401.44
Dx, g cm <sup>-3</sup>	1.347	1.347
Z	2	2
Mu (mm <sup>-1</sup> )	0.091	0.091
F000	424.0	424.0
F000'	424.20	
h,k,lmax	15,17,18	15,17,18
Nref	10665	10498
Tmin,Tmax	0.935,0.963	0.839,1.000
Tmin'	0.935	

Correction method= MULTI-SCAN

Data completeness= 0.984

Theta(max)= 37.858

R(reflections)= 0.0466( 9110)

wR2(reflections)= 0.1355( 10498)

S = 1.028

Npar= 363

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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 C

DIFMX01\_ALERT\_2\_C The maximum difference density is > 0.1\*ZMAX\*0.75  
                    \_refine\_diff\_density\_max given =        0.742  
                    Test value =                    0.600

DIFMX02\_ALERT\_1\_C The maximum difference density is > 0.1\*ZMAX\*0.75  
                    The relevant atom site should be identified.

PLAT094\_ALERT\_2\_C Ratio of Maximum / Minimum Residual Density ....        2.01

**Alert level G**

PLAT005_ALERT_5_G	No _iucr_refine_instructions_details in the CIF	?
PLAT063_ALERT_4_G	Crystal Size Likely too Large for Beam Size ....	0.74 mm
PLAT154_ALERT_1_G	The su's on the Cell Angles are Equal .....	0.00100 Deg.
PLAT793_ALERT_4_G	The Model has Chirality at C2 (Verify) ....	R
PLAT793_ALERT_4_G	The Model has Chirality at C3 (Verify) ....	R
PLAT793_ALERT_4_G	The Model has Chirality at C8 (Verify) ....	S
PLAT793_ALERT_4_G	The Model has Chirality at C9 (Verify) ....	S
PLAT793_ALERT_4_G	The Model has Chirality at C13 (Verify) ....	S

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

2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
 3 ALERT type 2 Indicator that the structure model may be wrong or deficient  
 0 ALERT type 3 Indicator that the structure quality may be low  
 6 ALERT type 4 Improvement, methodology, query or suggestion  
 1 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*, 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.

