

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) jg677

No syntax errors found. CIF dictionary Interpreting this report

Datablock: jg677

Bond precision: C-C = 0.0054 Å Wavelength=1.54180

Cell: a=7.173(1) b=11.668(2) c=13.430(2)
 alpha=85.56(1) beta=83.26(1) gamma=81.32(1)

Temperature: 213 K

	Calculated	Reported
Volume	1101.4(3)	1101.4(3)
Space group	P -1	P-1
Hall group	-P 1	?
Moiety formula	C15 H8 N2 O2	?
Sum formula	C15 H8 N2 O2	C15 H8 N2 O2
Mr	248.23	248.23
Dx,g cm-3	1.497	1.497
Z	4	4
Mu (mm-1)	0.838	0.838
F000	512.0	512.0
F000'	513.63	
h,k,lmax	8,14,16	8,14,16
Nref	4305	4009
Tmin,Tmax	0.980,0.983	0.921,0.983
Tmin'	0.920	

Correction method= MULTI-SCAN

Data completeness= 0.931 Theta(max)= 71.760

R(reflections)= 0.0758(2075) wR2(reflections)= 0.1921(4009)

S = 1.017 Npar= 343

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 A

PLAT029_ALERT_3_A _diffrn_measured_fraction_theta_full Low 0.93

Alert level C

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REFLT03_ALERT_3_C Reflection count < 95% complete
  From the CIF: _diffrn_reflns_theta_max          71.76
  From the CIF: _diffrn_reflns_theta_full        71.76
  From the CIF: _reflns_number_total            4009
  TEST2: Reflns within _diffrn_reflns_theta_max
  Count of symmetry unique reflns              4305
  Completeness (_total/calc)                    93.12%
PLAT340_ALERT_3_C Low Bond Precision on C-C Bonds (x 1000) Ang ..      5
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● **Alert level G**

PLAT154_ALERT_1_G The su's on the Cell Angles are Equal (x 10000) 1000 Deg.

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

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

