

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) mo_ddz20046_0m

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: mo_ddz20046_0m

Bond precision: C-C = 0.0047 Å Wavelength=0.71073

Cell: $a=6.2213(10)$ $b=30.855(5)$ $c=9.1586(17)$
 $\alpha=90$ $\beta=105.200(6)$ $\gamma=90$

Temperature: 293 K

	Calculated	Reported
Volume	1696.6(5)	1696.6(5)
Space group	P 21/n	P 21/n
Hall group	-P 2yn	-P 2yn
Moiety formula	C24 H19 N	?
Sum formula	C24 H19 N	C24 H19 N
Mr	321.40	321.40
Dx, g cm ⁻³	1.258	1.258
Z	4	4
Mu (mm ⁻¹)	0.072	0.072
F000	680.0	680.0
F000'	680.24	
h,k,lmax	7,36,10	7,36,10
Nref	2995	2973
Tmin,Tmax	0.987,0.996	0.461,0.746
Tmin'	0.986	

Correction method= # Reported T Limits: Tmin=0.461 Tmax=0.746
AbsCorr = MULTI-SCAN

Data completeness= 0.993 Theta(max)= 24.996

R(reflections) = 0.0689(1453) wR2(reflections) = 0.2098(2973)

S = 0.996 Npar= 229

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

PLAT018_ALERT_1_C _diffrrn_measured_fraction_theta_max .NE. *_full	! Check
PLAT026_ALERT_3_C Ratio Observed / Unique Reflections (too) Low ..	49% Check
PLAT340_ALERT_3_C Low Bond Precision on C-C Bonds	0.00473 Ang.
PLAT906_ALERT_3_C Large K Value in the Analysis of Variance	5.823 Check
PLAT906_ALERT_3_C Large K Value in the Analysis of Variance	2.224 Check
PLAT911_ALERT_3_C Missing FCF Refl Between Thmin & STh/L= 0.595	19 Report

🟢 Alert level G

PLAT199_ALERT_1_G Reported _cell_measurement_temperature (K)	293 Check
PLAT200_ALERT_1_G Reported _diffrrn_ambient_temperature (K)	293 Check
PLAT883_ALERT_1_G No Info/Value for _atom_sites_solution_primary .	Please Do !
PLAT910_ALERT_3_G Missing # of FCF Reflection(s) Below Theta(Min).	3 Note
PLAT913_ALERT_3_G Missing # of Very Strong Reflections in FCF	2 Note
PLAT933_ALERT_2_G Number of OMIT Records in Embedded .res File ...	1 Note
PLAT941_ALERT_3_G Average HKL Measurement Multiplicity	2.5 Low
PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density.	1 Info

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
 - 0 **ALERT level B** = A potentially serious problem, consider carefully
 - 6 **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

 - 4 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 - 2 ALERT type 2 Indicator that the structure model may be wrong or deficient
 - 8 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
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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* 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 03/06/2021; check.def file version of 02/06/2021

Datablock mo_ddz20046_0m - ellipsoid plot

