

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) txx025

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: txx025

Bond precision: C-C = 0.0050 Å Wavelength=1.54178

Cell: a=19.6196(6) b=17.7629(5) c=22.6924(6)
alpha=90 beta=90 gamma=90

Temperature: 173 K

	Calculated	Reported
Volume	7908.3(4)	7908.3(4)
Space group	A b a 2	A b a 2
Hall group	A 2 -2ac	A 2 -2ac
Moiety formula	C91 H88 N5 Sc [+ solvent]	C82 H76 N4 Sc, C9 H12 N
Sum formula	C91 H88 N5 Sc [+ solvent]	C91 H88 N5 Sc
Mr	1296.62	1296.62
Dx, g cm ⁻³	1.089	1.089
Z	4	4
Mu (mm ⁻¹)	1.143	1.143
F000	2760.0	2760.0
F000'	2768.05	
h, k, lmax	25, 22, 28	24, 22, 28
Nref	8594 [4411]	7739
Tmin, Tmax	0.760, 0.839	0.695, 0.912
Tmin'	0.575	

Correction method= # Reported T Limits: Tmin=0.695 Tmax=0.912
AbsCorr = NUMERICAL

Data completeness= 1.75/0.90 Theta (max)= 79.301

R(reflections)= 0.0451(6950) wR2 (reflections)=
0.1150(7739)
S = 1.031 Npar= 507

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**

PLAT220_ALERT_2_C	NonSolvent	Resd	1	C	Ueq(max)/Ueq(min)	Range	3.1	Ratio
PLAT911_ALERT_3_C	Missing FCF	Refl	Between	Thmin & STh/L=	0.600		12	Report
	0 18	0,	13	6 0,	16 2 0,	16 4 0,	16 5 3,	0 12 6,
	2 12	6,	9 12	6,	4 11 9,	6 13 9,	0 12 10,	5 9 15,

 **Alert level G**

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	6	Note
PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ	Please Check	
	Calc: C91 H88 N5 Sc		
	Rep.: C82 H76 N4 Sc, C9 H12 N		
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	2	Report
PLAT187_ALERT_4_G	The CIF-Embedded .res File Contains RIGU Records	2	Report
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Sc	6.1	s.u.
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)	25%	Note
PLAT605_ALERT_4_G	Largest Solvent Accessible VOID in the Structure	227	A**3
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	12	Note
	H1SA H1SB H3SA H4SA H5SA H6SA H8SA	H8SB	
	H8SC H9SA H9SB H9SC		
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	147	Note
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed	!	Info
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	65	Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	0	Info

0 **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

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

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

4 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

6 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* 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 29/11/2023; check.def file version of 14/09/2023

Datablock txx025 - ellipsoid plot

