

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) Muraoka6

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: Muraoka6

Bond precision: C-C = 0.0040 Å Wavelength=1.54187

Cell: a=8.83401(16) b=12.5026(2) c=18.7047(3)
 alpha=103.5820(9) beta=94.5117(9) gamma=103.4930(9)
Temperature: 153 K

	Calculated	Reported
Volume	1933.14(6)	1933.14(6)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C28 H30 N2 O6, C14 H12 N2, 0.5(C4 H8 O2), H2 O	C28 H30 N2 O6, C14 H12 N2, 0.5(C4 H8 O2), H2 O
Sum formula	C44 H48 N4 O8	C44 H48 N4 O8
Mr	760.86	760.89
Dx, g cm-3	1.307	1.307
Z	2	2
Mu (mm-1)	0.736	0.737
F000	808.0	808.0
F000'	810.50	
h,k,lmax	10,15,22	10,15,22
Nref	7077	6848
Tmin,Tmax	0.838,0.863	0.704,0.863
Tmin'	0.745	

Correction method= # Reported T Limits: Tmin=0.704 Tmax=0.863
AbsCorr = MULTI-SCAN

Data completeness= 0.968 Theta(max)= 68.230

R(reflections)= 0.0504(4378) wR2(reflections)= 0.1459(6848)

S = 1.061 Npar= 515

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

PLAT029_ALERT_3_C	_diffrn_measured_fraction_theta_full	value Low	0.970	Why?
PLAT340_ALERT_3_C	Low Bond Precision on C-C Bonds		0.00405	Ang.
PLAT355_ALERT_3_C	Long O-H (X0.82,N0.98A)	O8 - H6	1.03	Ang.
PLAT355_ALERT_3_C	Long O-H (X0.82,N0.98A)	O8 - H7	1.04	Ang.
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance		2.948	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.600	208	Report
PLAT934_ALERT_3_C	Number of (Iobs-Icalc)/SigmaW > 10 Outliers		1	Check
PLAT978_ALERT_2_C	Number C-C Bonds with Positive Residual Density.		0	Info



Alert level G

CHEMS02_ALERT_1_G Please check that you have entered the correct
_publ_requested_category classification of your compound;
FI or CI or EI for inorganic; FM or CM or EM for metal-organic;
FO or CO or EO for organic.
From the CIF: _publ_requested_category CHOOSE FI FM FO CI CM CO or A
From the CIF: _chemical_formula_sum :C44 H48 N4 O8

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite		3	Note
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms		2	Report
PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal..(Note)		0.0009	Degree
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records		2	Report
PLAT398_ALERT_2_G	Deviating C-O-C Angle From 120 for O7		109.7	Degree
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #		4	Note
	H2 O			
PLAT860_ALERT_3_G	Number of Least-Squares Restraints		2	Note
PLAT882_ALERT_1_G	No Datum for _diffrn_reflms_av_unetI/netI			Please Do !
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).		1	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L=	0.600	20	Note

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

- 3 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
9 ALERT type 3 Indicator that the structure quality may be low
3 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.

