

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) JF3162FFMI

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: JF3162FFMI

Bond precision:	C-C = 0.0032 A	Wavelength=0.71073	
Cell:	a=9.9964 (9)	b=7.9885 (7)	c=27.840 (3)
	alpha=90	beta=97.4283 (14)	gamma=90
Temperature:	90 K		
	Calculated	Reported	
Volume	2204.5 (4)	2204.5 (3)	
Space group	P 21/c	P 21/c	
Hall group	-P 2ybc	-P 2ybc	
Moiety formula	2 (C20.50 H16 Cl2 N7.50 O4 S)	2 (C20.50 H16 Cl2 N7.50 O4 S)	
Sum formula	C41 H32 Cl4 N15 O8 S2	C41 H32 Cl4 N15 O8 S2	
Mr	1068.74	1068.74	
Dx, g cm ⁻³	1.610	1.610	
Z	2	2	
Mu (mm ⁻¹)	0.437	0.437	
F000	1094.0	1094.0	
F000'	1096.07		
h, k, lmax	12, 10, 36	12, 10, 36	
Nref	5064	5054	
Tmin, Tmax	0.883, 0.980	0.831, 0.932	
Tmin'	0.883		

Correction method= # Reported T Limits: Tmin=0.831 Tmax=0.932
AbsCorr = MULTI-SCAN

Data completeness= 0.998 Theta(max)= 27.505

R(reflections)= 0.0416 (3417)	wR2(reflections)= 0.0943 (5054)
S = 1.025	Npar= 380

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 G

PLAT168_ALERT_4_G	The CIF-Embedded .res File Contains EXYZ Records	1 Report
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records	1 Report
PLAT300_ALERT_4_G	Atom Site Occupancy of N21 Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C21 Constrained at	0.5 Check
PLAT301_ALERT_3_G	Main Residue Disorder(Resd 1)	3% Note
PLAT431_ALERT_2_G	Short Inter HL..A Contact Cl1 ..018 .	3.16 Ang.
	1+x,3/2-y,-1/2+z =	4_675 Check
PLAT480_ALERT_4_G	Long H...A H-Bond Reported H10B ..011 .	2.62 Ang.
PLAT480_ALERT_4_G	Long H...A H-Bond Reported H20 ..CL3 .	2.87 Ang.
PLAT899_ALERT_4_G	SHELXL2018 is Deprecated and Succeeded by SHELXL	2019/3 Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	10 Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	3.6 Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	6 Info

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

0 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
2 ALERT type 3 Indicator that the structure quality may be low
8 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.

