

checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

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: 1_18srv178

Bond precision: C-C = 0.0063 Å Wavelength=0.71073

Cell: a=26.964 (2) b=27.059 (2) c=22.8873 (17)
alpha=90 beta=94.601 (3) gamma=90

Temperature: 120 K

	Calculated	Reported
Volume	16645 (2)	16645 (2)
Space group	P 21/c	P 1 21/c 1
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C49 H35, C12 I, C H2 C12	C12 I, C H2 C12, C49 H35
Sum formula	C50 H37 Cl4 I	C50 H37 Cl4 I
Mr	906.50	906.49
Dx, g cm-3	1.447	1.447
Z	16	16
Mu (mm-1)	1.061	1.061
F000	7328.0	7328.0
F000'	7332.04	
h, k, lmax	36, 36, 30	36, 36, 30
Nref	42218	42199
Tmin, Tmax	0.765, 0.890	0.866, 1.000
Tmin'	0.727	

Correction method= # Reported T Limits: Tmin=0.866 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 1.000 Theta (max)= 28.500

R(reflections)= 0.0531(30112) wR2 (reflections)=
0.1495(42199)
S = 1.033 Npar= 1978

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

PLAT094_ALERT_2_C	Ratio of Maximum / Minimum Residual Density	2.32	Report
PLAT202_ALERT_3_C	Isotropic non-H Atoms in Anion/Solvent	3	Check
	C17S C18S C4SA		
PLAT220_ALERT_2_C	NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range	4.8	Ratio
PLAT220_ALERT_2_C	NonSolvent Resd 2 C Ueq(max)/Ueq(min) Range	3.6	Ratio
PLAT220_ALERT_2_C	NonSolvent Resd 4 C Ueq(max)/Ueq(min) Range	3.4	Ratio
PLAT244_ALERT_4_C	Low 'Solvent' Ueq as Compared to Neighbors of	I1C	Check

Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	6	Note
PLAT012_ALERT_1_G	No _shelx_res_checksum Found in CIF	Please	Check
PLAT042_ALERT_1_G	Calc. and Reported Moiety Formula Strings Differ	Please	Check
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	62.00	Why ?
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	1	Report
PLAT300_ALERT_4_G	Atom Site Occupancy of C17S Constrained at	0.65	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C18S Constrained at	0.65	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C4SA Constrained at	0.65	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H4SC Constrained at	0.65	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H4SD Constrained at	0.65	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C17B Constrained at	0.35	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C18B Constrained at	0.35	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C4SB Constrained at	0.35	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H4SA Constrained at	0.35	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H4SB Constrained at	0.35	Check
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 12)	100%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 13)	100%	Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 12)	3.25	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in (Resd 13)	1.75	Check
PLAT411_ALERT_2_G	Short Inter H...H Contact H55B ..H4SA .	2.11	Ang.
	x,3/2-y,1/2+z =	4_576	Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	12	Note
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	6	Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File	2	Note
PLAT967_ALERT_5_G	Note: Two-Theta Cutoff Value in Embedded .res ..	57.0	Degree

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

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

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

8 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

17 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.

PLATON version of 18/12/2021; check.def file version of 18/12/2021

Datablock 1_18srv178 - ellipsoid plot

