

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) PRG-I-85_D2_Ep_Boc

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: PRG-I-85_D2_Ep_Boc

Bond precision: C-C = 0.0061 Å Wavelength=1.54184

Cell: a=19.0015(1) b=19.5618(2) c=19.8094(2)
 alpha=90 beta=102.508(1) gamma=90
Temperature: 100 K

	Calculated	Reported
Volume	7188.46(11)	7188.46(11)
Space group	P 21	P 1 21 1
Hall group	P 2yb	P 2yb
Moiety formula	C40 H59 N7 O2, C32 H34 N2 O3 S [+ solvent]	C72 H93 N9 O5 S
Sum formula	C72 H93 N9 O5 S [+ solvent]	C72 H93 N9 O5 S
Mr	1196.61	1196.61
Dx, g cm-3	1.106	1.106
Z	4	4
Mu (mm-1)	0.811	0.811
F000	2576.0	2576.0
F000'	2584.20	
h, k, lmax	23, 23, 24	23, 23, 24
Nref	27504[14184]	22005
Tmin, Tmax	0.881, 0.956	0.845, 1.000
Tmin'	0.678	

Correction method= # Reported T Limits: Tmin=0.845 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 1.55/0.80 Theta(max)= 70.476

R(reflections)= 0.0496(18788) wR2(reflections)= 0.1425(22005)

S = 1.068 Npar= 1597

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	3.2	Ratio
PLAT220_ALERT_2_C	NonSolvent	Resd 2	C	Ueq(max)/Ueq(min) Range	4.0	Ratio
PLAT222_ALERT_3_C	NonSolvent	Resd 2	H	Uiso(max)/Uiso(min) Range	5.0	Ratio
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	N202	--N203	.	5.5	s.u.
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of		C12	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of		C26	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of		C211	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of		C225	Check
PLAT340_ALERT_3_C	Low Bond Precision on	C-C Bonds			0.00613	Ang.
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.600			19	Report
PLAT915_ALERT_3_C	No Flack x Check Done: Low Friedel Pair Coverage				60	%
PLAT987_ALERT_1_C	The Flack x is >> 0 - Do a BASF/TWIN Refinement					Please Check

● Alert level G

PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms				2	Report
PLAT033_ALERT_4_G	Flack x Value Deviates > 3.0 * sigma from Zero				0.027	Note
PLAT042_ALERT_1_G	Calc. and Reported Moiety Formula Strings Differ					Please Check
PLAT187_ALERT_4_G	The CIF-Embedded .res File Contains RIGU Records				2	Report
PLAT605_ALERT_4_G	Largest Solvent Accessible VOID in the Structure				172	A**3
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #				2	Note
	C40 H59 N7 O2					
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #				4	Note
	C32 H34 N2 O3 S					
PLAT860_ALERT_3_G	Number of Least-Squares Restraints				61	Note
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed				!	Info
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).				2	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L=	0.600			204	Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...				2	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity				4.8	Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.				0	Info
PLAT992_ALERT_5_G	Repd & Actual _reflns_number_gt Values Differ by				2	Check

0 ALERT level A = Most likely a serious problem - resolve or explain

0 ALERT level B = A potentially serious problem, consider carefully

12 ALERT level C = Check. Ensure it is not caused by an omission or oversight

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

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

9 ALERT type 2 Indicator that the structure model may be wrong or deficient

7 ALERT type 3 Indicator that the structure quality may be low

7 ALERT type 4 Improvement, methodology, query or suggestion

2 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.

